

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



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

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

Brand Name: MediaTek

Model No.: MT7922A22M

Model Difference: N/A

Report Number: TERF2204000208E2

FCC ID RAS-MT7922A22M

IC: 7542A-MT7922A22M

Date of EUT Received: Apr. 12, 2022

Date of Test: Apr. 13, 2022~May 23, 2022

Issue Date: May 30, 2022

Approved By _____

Vito Pei

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT comply with FCC rule part §15.407, ISSED RSS-248.

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TERF2204000208E2	00	Original.	May 30, 2022	Yami Kuo	

Note:

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

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Contents

1	GENERAL INFORMATION	4
2	SYSTEM TEST CONFIGURATION	9
3	SUMMARY OF TEST RESULT	11
4	DESCRIPTION OF TEST MODES	12
5	MEASUREMENT UNCERTAINTY	18
6	MEASUREMENT EQUIPMENT USED	19
7	MAXIMUM OUTPUT POWER	20
8	UNDESIRABLE RADIATED EMISSIONS	28

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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:	N22Q14
Model No. of IC Host:	TMP414-41,TMP414RN-41,TMP414P-41,TMP414A-41,TMP414RNA-41
Model Difference:	For marketing purpose
Power Supply:	15.4Vdc from Rechargeable Li-ion 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
	256QAM ,1024QAM for OFDMA in 802.11ax
Transition Rate:	802.11 a: 6 - 54 Mbps
	802.11 n_20MHz: up to 144.4 Mbps
	802.11 n_40MHz: up to 300 Mbps
	802.11 ac_20MHz: up to 173.4 Mbps
	802.11 ac_40MHz: up to 400 Mbps
	802.11 ac_80MHz: up to 866.6 Mbps
	802.11 ac_160MHz: up to 1733.4 Mbps
	802.11 ax_20MHz: up to 286.8 Mbps
	802.11 ax_40MHz: up to 573.6 Mbps
	802.11 ax_80MHz: up to 1201 Mbps
	802.11 ax_160MHz: up to 2402 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	NB / TB mode	Main / Aux	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Direction Gain (dBi)
PIFA	WNC	NB	Main	81EABS15.G80	5925~6425	2.61	5.90
					6425~6525	1.29	3.67
					6525~6875	1.49	4.40
					6875~7125	3.19	5.16
			Aux		5925~6425	3.17	5.90
					6425~6525	-0.01	3.67
					6525~6875	1.28	4.40
					6875~7125	0.96	5.16
		TB	Main		5925~6425	2.63	5.55
					6425~6525	1.74	4.10
					6525~6875	1.85	4.16
					6875~7125	2.26	4.33
			Aux		5925~6425	2.44	5.55
					6425~6525	0.38	4.10
					6525~6875	0.38	4.16
					6875~7125	0.26	4.33

Note:

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

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1.4 Rated Power

NB

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a 20MHz	5955~6415	24	9.56 dBm
	6435~6515	5	7.92 dBm
	6535~6875	18	8.24 dBm
	6895~7115	12	9.22 dBm

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
ax_HE 20MHz	5955~6415	24	10.28 dBm
	6435~6515	5	7.49 dBm
	6535~6875	18	8.53 dBm
	6895~7115	12	9.79 dBm
ax_HE 40MHz	5965~6405	12	12.57 dBm
	6445~6525	3	10.72 dBm
	6565~6845	8	10.78 dBm
	6885~7085	6	12.35 dBm
ax_HE 80MHz	5985~6385	6	15.39 dBm
	6465	1	13.43 dBm
	6545~6865	5	14.62 dBm
	6945~7025	2	15.28 dBm
ax_HE 160MHz	6025~6345	3	18.32 dBm
	6665~6825	2	16.80 dBm
	6985	1	18.03 dBm

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TB

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
a 20MHz	5955~6415	24	9.21 dBm
	6435~6515	5	8.35 dBm
	6535~6875	18	8.00 dBm
	6895~7115	12	8.39 dBm

WLAN 6E

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)
ax_HE 20MHz	5955~6415	24	9.93 dBm
	6435~6515	5	7.92 dBm
	6535~6875	18	8.29 dBm
	6895~7115	12	8.96 dBm
ax_HE 40MHz	5965~6405	12	12.22 dBm
	6445~6525	3	11.15 dBm
	6565~6845	8	10.54 dBm
	6885~7085	6	11.52 dBm
ax_HE 80MHz	5985~6385	6	15.04 dBm
	6465	1	13.86 dBm
	6545~6865	5	14.38 dBm
	6945~7025	2	14.45 dBm
ax_HE 160MHz	6025~6345	3	17.97 dBm
	6665~6825	2	16.56 dBm
	6985	1	17.20 dBm

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1.5 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

RSS-248, issue 1 Nov, 2021

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

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10:2013

1.6 Test Facility

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

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

1.7 Special Accessories

There are no special accessories used while test was conducted.

1.8 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.4 CBP Test

The active antenna port of the unlicensed wireless device is connected to the spectrum analyzer and signal generator and companion device to perform the test.

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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.

2.5 Test Configuration

Conducted Setup	Radiated Setup
	

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3 SUMMARY OF TEST RESULT

FCC Rules	ISED Rules	Description Of Test	Result
§15.407(a)(4~8)	RSS-248 §4.6	Maximum Conducted Output Power	Compliant
§15.205 §15.209 §15.407(b)(5),(b)(8), (b)(9)	RSS-248 §4.7	Undesirable Radiated Emissions	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

UNII-5 5925~6425 MHz										UNII-6 6425~6525 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
1	5955	49	6195	3	5965	7	5985	15	6025	97	6435	99	6445	103	6465	111	6505		
5	5975	53	6215	11	6005	23	6065	47	6185	101	6455	107	6485						
9	5995	57	6235	19	6045	39	6145	79	6345	105	6475	115	6525						
13	6015	61	6255	27	6085	55	6225			109	6495								
17	6035	65	6275	35	6125	71	6305			113	6515								
21	6055	69	6295	43	6165	87	6385												
25	6075	73	6315	51	6205														
29	6095	77	6335	59	6245														
33	6115	81	6355	67	6285														
37	6135	85	6375	75	6325														
41	6155	89	6395	83	6365														
45	6175	93	6415	91	6405														

UNII-7 6525~6875 MHz										UNII-8 6875~7125 MHz									
20MHz				40MHz		80MHz		160MHz		20MHz		40MHz		80MHz		160MHz			
CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
117	6535	153	6715	123	6565	119	6545	143	6665	189	6895	187	6885	199	6945	207	6985		
121	6555	157	6735	131	6605	135	6625	175	6825	193	6915	195	6925	215	7025				
125	6575	161	6755	139	6645	151	6705			197	6935	203	6965						
129	6595	165	6775	147	6685	167	6785			201	6955	211	7005						
133	6615	169	6795	155	6725	183	6865			205	6975	219	7045						
137	6635	173	6815	163	6765					209	6995	227	7085						
141	6655	177	6835	171	6805					213	7015								
145	6675	181	6855	179	6845					217	7035								
149	6695	185	6875							221	7055								
										225	7075								
										229	7095								
										233	7115								

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4.2 The Worst Test Modes and Channel Details

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

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
<input checked="" type="checkbox"/> 802.11 a	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> 1TX	<input checked="" type="checkbox"/> 2TX
<input type="checkbox"/> 802.11 n	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO
<input type="checkbox"/> 802.11 ac	<input type="checkbox"/> Ch0	<input type="checkbox"/> Ch1	<input type="checkbox"/> Ch2	<input type="checkbox"/> Ch3	<input type="checkbox"/> SISO	<input type="checkbox"/> MIMO
<input checked="" type="checkbox"/> 802.11 ax	<input type="checkbox"/> Ch0	<input 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, heighest and Full RU results higher emissions.
Only one RU can be enabled at any given time.

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

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

5. Therefore, below summary is the modes of test configuration that yield the highest reading and generate the highest emission chosen to carry out the relevantly mandatory test items.

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RADIATED EMISSION TEST (BELOW 1 GHz)

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

RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7115	189 to 233	189,213,233			

RADIATED EMISSION TEST (ABOVE 1 GHz)

MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/40 106/53,106/54	MCS0	MIMO
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,213,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU	MCS0	MIMO
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,155,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU	MCS0	MIMO
	6465	103	103				
	6545~6865	119 to 183	103				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU	MCS0	MIMO
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

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CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5955~6415	1 to 93	1,45,93	OFDM	6	2TX
	6435~6515	97 to 113	97,105,113			
	6535~6875	117 to 185	117,149,181,185			
	6895~7115	189 to 233	189,213,233			

CONDUCTED TEST							
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	RU CONFIGURATI	DATA RATE (Mbps)	ANTENNA PORT
802.11ax_HE20	5955~6415	1 to 93	1,45,93	OFDMA	FULL RU 26/0,26/8 52/40 106/53,106/54	MCS0	MIMO
	6435~6515	97 to 113	97,105,113				
	6535~6875	117 to 185	117,149,181,185				
	6895~7115	189 to 233	189,213,233				
802.11ax_HE40	5965~6405	3 to 91	3,43,91	OFDMA	FULL RU	MCS0	MIMO
	6445~6525	99 to 115	99,107,115				
	6565~6845	123 to 179	123,155,179				
	6885~7085	187 to 227	187,195,211,227				
802.11ax_HE80	5985~6385	7 to 87	7,39,87	OFDMA	FULL RU	MCS0	MIMO
	6465	103	103				
	6545~6865	119 to 183	103				
	6945~7025	199 to 215	199,215				
802.11ax_HE160	6025~6345	15 to 79	15,47,79	OFDMA	FULL RU	MCS0	MIMO
	6505	111	111				
	6665~6825	143 to 175	143,175				
	6985	207	207				

Note:

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

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5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
AC Power Line Conducted Emission	+/- 2.34 dB
Output Power measurement	+/- 1 dB
Emission Bandwidth	+/- 1.53 Hz
Undesignable radiated emission measurement	+/- 1.68 dB
Peak Power Density	+/- 1.62 dB
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 MEASUREMENT EQUIPMENT USED

6.1 Conducted Measurement

Conducted Emission Test Site: Conducted A					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY57120290	04/01/2022	03/31/2023
Power Meter	Anritsu	ML2496A	1512003	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339378	07/27/2021	07/26/2022
Power Sensor	Anritsu	MA2411B	1339379	07/27/2021	07/26/2022
Attenuator	Marvelous	MVE2213-10	RF06	11/18/2021	11/17/2022
Attenuator	Marvelous	MVE2213-10	RF12	11/18/2021	11/17/2022
Attenuator	Marvelous	WATT-218FS-10	RF22	11/18/2021	11/17/2022
DC Block	PASTERNAK	PE8210	RF155	11/18/2021	11/17/2022

6.2 Radiated Measurement

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-300	10/19/2021	10/18/2022
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	1187	01/06/2022	01/05/2023
Loop Antenna	ETS.LINDGREN	6502	143303	05/07/2021	05/06/2022
EMI Test Receiver	R&S	ESU 40	100363	04/28/2021	04/27/2022
Pre-Amplifier	EMC Instruments	EMC330	980096	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/18/2021	11/17/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Attenuator	Marvelous	WATT-218FS-10	RF20	11/18/2021	11/17/2022
Band Rejection Filter	Micro-Tronics	BRM50701-01	RF201	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/18/2021	11/17/2022
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/18/2021	11/17/2022
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R

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

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7 MAXIMUM OUTPUT POWER

7.1 Standard Applicable

7.1.1 Duty Cycle

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

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

7.1.2 Output Power

§15.407(a)

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

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EUT CATEGORY		Equipment Class	§15.407(a)	§RSS 248 4.6
	Standard Access Point	6SD	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use	EIRP < 30dBm
	indoor Access Point	6ID	EIRP < 30dBm	
	Subordinate Device	6PP	EIRP < 30dBm	
	Fixed Client	6FC	EIRP < 36dBm and antenna angle above 30 degrees < 21dBm EIRP for outdoor use	EIRP < 24dBm
V	Indoor Client	6XD	EIRP < 24dBm	
	Standard Client	6FX	EIRP < 30dBm no more than 6 dB below its associated standard power access point's authorized trans-mit power	
	Dual Client	6CD	Compliance both indoor client and standard client limit	

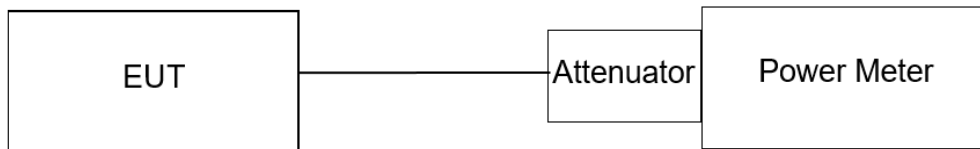
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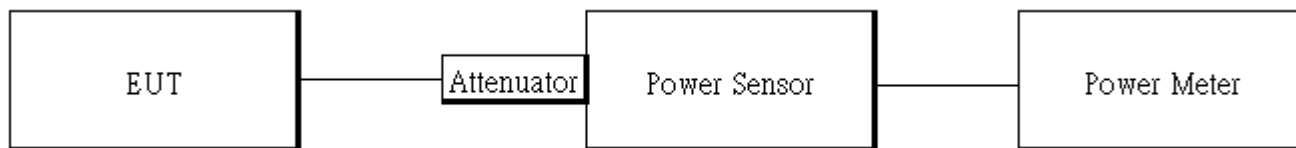
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7.2 Test Setup

7.2.1 Duty Cycle



7.2.2 Output Power



Note:

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

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

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

where

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

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

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

G_k is the gain in dBi of the kth antenna.

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

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7.3 Measurement Procedure

7.3.1 Duty Cycle

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

7.3.2 Output Power

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

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7.4 Measurement Result

7.4.1 Conducted output power

NB
802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	0.01	0.37	3.66	5.9	9.564	24	PASS
45	6175	-0.08	0.11	3.49	5.9	9.386	24	PASS
93	6415	-0.31	-0.21	3.21	5.9	9.111	24	PASS
97	6435	0.45	0.88	4.14	3.67	7.811	24	PASS
105	6475	0.32	0.46	3.86	3.67	7.531	24	PASS
113	6515	0.40	1.12	4.25	3.67	7.915	24	PASS
117	6535	-0.05	-0.01	3.44	4.4	7.840	24	PASS
149	6695	0.36	0.38	3.84	4.4	8.240	24	PASS
181	6855	0.16	-0.03	3.54	4.4	7.936	24	PASS
185	6875	0.37	0.23	3.77	4.4	8.171	24	PASS
185	6875(U-NII 7)	-2.64	-2.78	0.30	4.4	4.701	24	PASS
185	6875(U-NII 8)	-5.65	-2.78	-0.97	5.16	4.188	24	PASS
213	7015	0.54	0.48	3.98	5.16	9.140	24	PASS
233	7115	0.56	0.61	4.06	5.16	9.215	24	PASS

802.11ax_20_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	0.23	0.86	4.38	5.9	10.277	24	PASS
		26/0	-7.89	-8.03	-4.14	5.9	1.761	24	PASS
		52/37	-6.65	-6.84	-2.92	5.9	2.976	24	PASS
		106/53	-2.79	-2.83	1.01	5.9	6.910	24	PASS
45	6175	full	0.22	0.18	4.02	5.9	9.920	24	PASS
93	6415	full	0.28	0.23	4.08	5.9	9.975	24	PASS
		26/8	-8.15	-8.41	-4.46	5.9	1.442	24	PASS
		106/54	-2.77	-2.91	0.98	5.9	6.881	24	PASS
97	6435	26/0	-8.94	-8.49	-4.89	3.67	-1.219	24	PASS
		106/53	-2.92	-2.48	1.13	3.67	4.796	24	PASS
105	6475	full	0.94	1.11	4.85	3.67	8.516	24	PASS
113	6515	full	0.46	1.14	4.63	3.67	8.304	24	PASS
117	6535	full	0.17	0.45	4.13	4.4	8.533	24	PASS
		26/0	-8.61	-8.41	-4.69	4.4	-0.289	24	PASS
		106/53	-2.85	-2.67	1.06	4.4	5.461	24	PASS
149	6695	full	0.43	0.11	4.09	4.4	8.493	24	PASS
181	6855	full	0.24	0.26	4.07	4.4	8.470	24	PASS
		26/8	-8.47	-8.14	-4.48	4.4	-0.082	24	PASS
		106/54	-2.72	-2.60	1.16	4.4	5.561	24	PASS
185	6875	full	0.84	0.89	4.69	4.4	9.085	24	PASS
185	6875(U-NII 7)	full	-2.17	-2.12	0.87	4.4	5.265	24	PASS
185	6875(U-NII 8)	full	-5.18	-2.12	-0.38	5.16	4.784	24	PASS
213	7015	full	0.86	0.75	4.63	5.16	9.786	24	PASS
233	7115	full	0.93	0.96	4.77	5.16	9.925	24	PASS
		26/8	-9.32	-10.14	-5.89	5.16	-0.730	24	PASS
		52/40	-6.68	-6.75	-2.89	5.16	2.265	24	PASS
		106/54	-5.34	-5.46	-1.58	5.16	3.581	24	PASS

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802.11ax_40_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	2.23	3.06	6.49	5.9	12.385	24	PASS
43	6165	full	2.45	3.08	6.60	5.9	12.497	24	PASS
91	6405	full	2.81	2.88	6.67	5.9	12.565	24	PASS
99	6445	full	2.67	3.05	6.68	3.67	10.354	24	PASS
107	6485	full	3.07	3.38	7.05	3.67	10.718	24	PASS
123	6565	full	2.39	2.54	6.29	4.4	10.686	24	PASS
155	6725	full	2.43	2.69	6.38	4.4	10.782	24	PASS
179	6845	full	2.37	2.32	6.17	4.4	10.565	24	PASS
187	6885	full	2.92	2.84	6.70	5.16	11.860	24	PASS
187	6885(U-NII 7)	full	-3.41	-3.48	-0.44	4.4	3.965	24	PASS
187	6885(U-NII 8)	full	-4.56	1.69	2.61	5.16	7.771	24	PASS
211	7005	full	3.02	2.81	6.74	5.16	11.897	24	PASS
227	7085	full	3.28	3.45	7.19	5.16	12.346	24	PASS

802.11ax_80_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	5.55	5.63	9.49	5.9	15.390	24	PASS
39	6145	full	5.15	5.78	9.38	5.9	15.277	24	PASS
87	6385	full	5.05	5.28	9.07	5.9	14.967	24	PASS
103	6465	full	5.80	5.92	9.76	3.67	13.431	24	PASS
135	6625	full	6.24	6.39	10.22	4.4	14.616	24	PASS
151	6705	full	5.26	5.31	9.19	4.4	13.585	24	PASS
167	6785	full	5.21	5.34	9.18	4.4	13.576	24	PASS
183	6865	full	5.72	5.77	9.65	4.4	14.045	24	PASS
183	6865(U-NII 7)	full	4.01	3.77	6.90	4.4	11.300	24	PASS
183	6865(U-NII 8)	full	-0.86	1.45	3.45	5.16	8.613	24	PASS
199	6945	full	5.92	6.07	9.90	5.16	15.056	24	PASS
215	7025	full	5.82	6.58	10.12	5.16	15.277	24	PASS

802.11ax_160_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	7.65	9.25	12.42	5.9	18.321	24	PASS
47	6185	full	8.05	8.42	12.14	5.9	18.037	24	PASS
79	6345	full	8.02	8.95	12.41	5.9	18.308	24	PASS
143	6665	full	8.47	8.54	12.40	4.4	16.803	24	PASS
175	6825	full	8.26	8.52	12.29	4.4	16.690	24	PASS
175	6825(U-NII 7)	full	7.41	7.66	10.55	4.4	14.947	24	PASS
175	6825(U-NII 8)	full	-0.08	1.05	3.53	5.16	8.691	24	PASS
207	6985	full	8.78	9.16	12.87	5.16	18.032	24	PASS

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TB
802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
		CH 0	CH 1					
1	5955	0.01	0.37	3.66	5.55	9.214	24	PASS
45	6175	-0.08	0.11	3.49	5.55	9.036	24	PASS
93	6415	-0.31	-0.21	3.21	5.55	8.761	24	PASS
97	6435	0.45	0.88	4.14	4.1	8.241	24	PASS
105	6475	0.32	0.46	3.86	4.1	7.961	24	PASS
113	6515	0.40	1.12	4.25	4.1	8.345	24	PASS
117	6535	-0.05	-0.01	3.44	4.16	7.600	24	PASS
149	6695	0.36	0.38	3.84	4.16	8.000	24	PASS
181	6855	0.16	-0.03	3.54	4.16	7.696	24	PASS
185	6875	0.37	0.23	3.77	4.16	7.931	24	PASS
185	6875(U-NII 7)	-2.64	-2.78	0.30	4.16	4.461	24	PASS
185	6875(U-NII 8)	-5.65	-2.78	-0.97	4.33	3.358	24	PASS
213	7015	0.54	0.48	3.98	4.33	8.310	24	PASS
233	7115	0.56	0.61	4.06	4.33	8.385	24	PASS

802.11ax_20_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
1	5955	full	0.23	0.86	4.38	5.55	9.927	24	PASS
		26/0	-7.89	-8.03	-4.14	5.55	1.411	24	PASS
		52/37	-6.65	-6.84	-2.92	5.55	2.626	24	PASS
		106/53	-2.79	-2.83	1.01	5.55	6.560	24	PASS
45	6175	full	0.22	0.18	4.02	5.55	9.570	24	PASS
93	6415	full	0.28	0.23	4.08	5.55	9.625	24	PASS
		26/8	-8.15	-8.41	-4.46	5.55	1.092	24	PASS
		106/54	-2.77	-2.91	0.98	5.55	6.531	24	PASS
97	6435	26/0	-8.94	-8.49	-4.89	4.1	-0.789	24	PASS
		106/53	-2.92	-2.48	1.13	4.1	5.226	24	PASS
105	6475	full	0.94	1.11	4.85	4.1	8.946	24	PASS
113	6515	full	0.46	1.14	4.63	4.1	8.734	24	PASS
117	6535	full	0.17	0.45	4.13	4.16	8.293	24	PASS
		26/0	-8.61	-8.41	-4.69	4.16	-0.529	24	PASS
		106/53	-2.85	-2.67	1.06	4.16	5.221	24	PASS
149	6695	full	0.43	0.11	4.09	4.16	8.253	24	PASS
181	6855	full	0.24	0.26	4.07	4.16	8.230	24	PASS
		26/8	-8.47	-8.14	-4.48	4.16	-0.322	24	PASS
		106/54	-2.72	-2.60	1.16	4.16	5.321	24	PASS
185	6875	full	0.84	0.89	4.69	4.16	8.845	24	PASS
185	6875(U-NII 7)	full	-2.17	-2.12	0.87	4.16	5.025	24	PASS
185	6875(U-NII 8)	full	-5.18	-2.12	-0.38	4.33	3.954	24	PASS
213	7015	full	0.86	0.75	4.63	4.33	8.956	24	PASS
233	7115	full	0.93	0.96	4.77	4.33	9.095	24	PASS
		26/8	-9.32	-10.14	-5.89	4.33	-1.560	24	PASS
		52/40	-6.68	-6.75	-2.89	4.33	1.435	24	PASS
		106/54	-5.34	-5.46	-1.58	4.33	2.751	24	PASS

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802.11ax_40_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
3	5965	full	2.23	3.06	6.49	5.55	12.035	24	PASS
43	6165	full	2.45	3.08	6.60	5.55	12.147	24	PASS
91	6405	full	2.81	2.88	6.67	5.55	12.215	24	PASS
99	6445	full	2.67	3.05	6.68	4.1	10.784	24	PASS
107	6485	full	3.07	3.38	7.05	4.1	11.148	24	PASS
123	6565	full	2.39	2.54	6.29	4.16	10.446	24	PASS
155	6725	full	2.43	2.69	6.38	4.16	10.542	24	PASS
179	6845	full	2.37	2.32	6.17	4.16	10.325	24	PASS
187	6885	full	2.92	2.84	6.70	4.33	11.030	24	PASS
187	6885(U-NII 7)	full	-3.41	-3.48	-0.43	4.16	3.725	24	PASS
187	6885(U-NII 8)	full	-4.56	1.69	2.61	4.33	6.942	24	PASS
211	7005	full	3.02	2.81	6.74	4.33	11.067	24	PASS
227	7085	full	3.28	3.45	7.19	4.33	11.516	24	PASS

802.11ax_80_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
7	5985	full	5.55	5.63	9.49	5.55	15.040	24	PASS
39	6145	full	5.15	5.78	9.38	5.55	14.927	24	PASS
87	6385	full	5.05	5.28	9.07	5.55	14.617	24	PASS
103	6465	full	5.80	5.92	9.76	4.1	13.861	24	PASS
135	6625	full	6.24	6.39	10.22	4.16	14.376	24	PASS
151	6705	full	5.26	5.31	9.19	4.16	13.345	24	PASS
167	6785	full	5.21	5.34	9.18	4.16	13.336	24	PASS
183	6865	full	5.72	5.77	9.65	4.16	13.805	24	PASS
183	6865(U-NII 7)	full	4.01	3.77	6.90	4.16	11.060	24	PASS
183	6865(U-NII 8)	full	-0.86	1.45	3.45	4.33	7.783	24	PASS
199	6945	full	5.92	6.07	9.90	4.33	14.226	24	PASS
215	7025	full	5.82	6.58	10.12	4.33	14.447	24	PASS

802.11ax_160_MIMO

CH	Frequency (MHz)	RU config.	AVERAGE POWER (dBm)		TOTAL POWER +Factor (dBm)	Antenna Gain (dBi)	EIRP (dBm)	REQUIRED EIRP LIMIT (dBm)	RESULT
			CH 0	CH 1					
15	6025	full	7.65	9.25	12.42	5.55	17.971	24	PASS
47	6185	full	8.05	8.42	12.14	5.55	17.687	24	PASS
79	6345	full	8.02	8.95	12.41	5.55	17.958	24	PASS
143	6665	full	8.47	8.54	12.40	4.16	16.563	24	PASS
175	6825	full	8.26	8.52	12.29	4.16	16.450	24	PASS
175	6825(U-NII 7)	full	7.41	7.66	10.55	4.16	14.707	24	PASS
175	6825(U-NII 8)	full	-0.08	1.05	3.53	4.33	7.861	24	PASS
207	6985	full	8.78	9.16	12.87	4.33	17.202	24	PASS

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8 UNDESIRABLE RADIATED EMISSIONS

8.1 Standard Applicable

For transmitters operating within the 5.925-7.125 GHz band: Any emissions outside of the 5.925-7.125 GHz band must not exceed an e.i.r.p. of -27 dBm/MHz and below 1 GHz must comply with the general field strength limits set forth in §15.209 and RSS-Gen §8.9 Table 5 and 6.

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

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

Above 1GHz and non-restricted limit

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

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

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

Below 1G and restricted limit

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

Note:

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

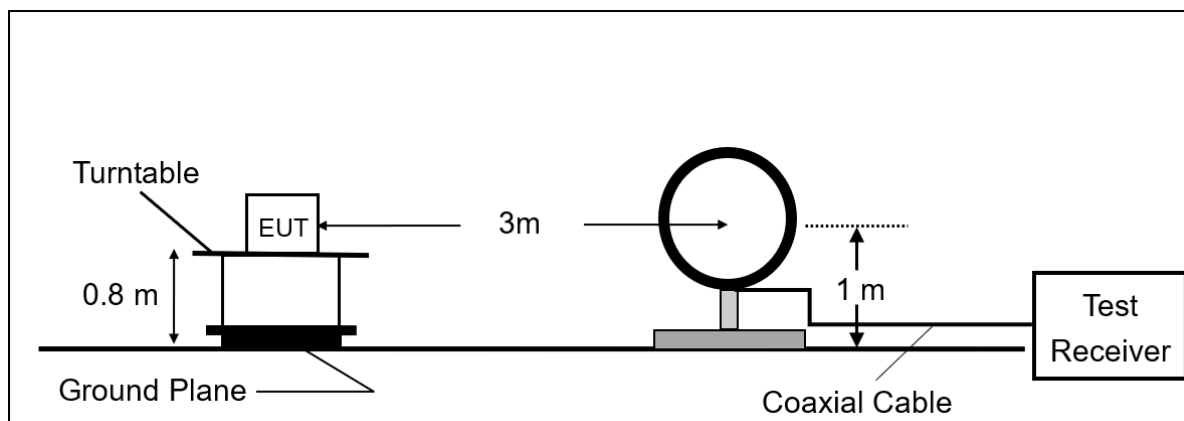
8.2 Test Setup

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

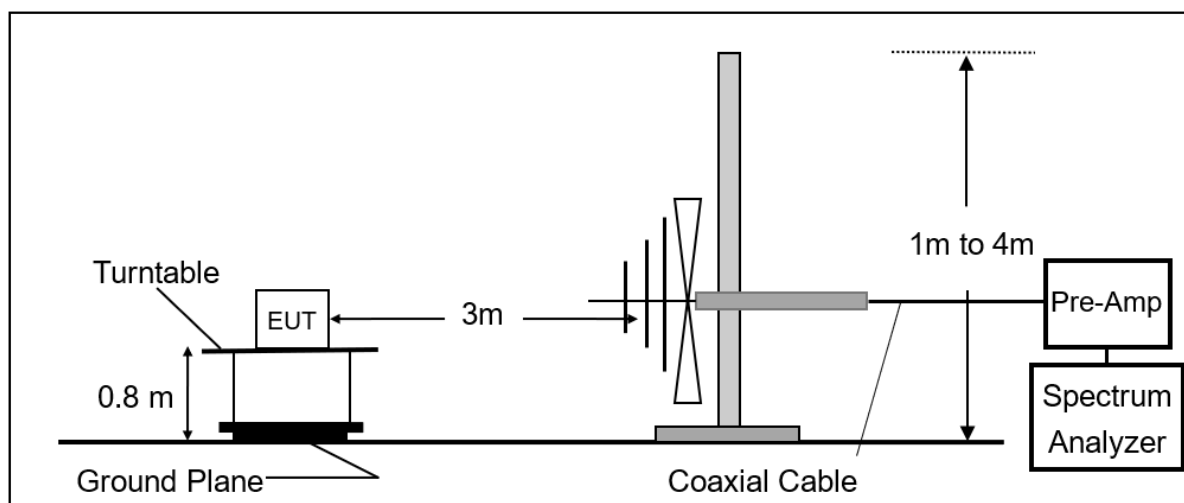
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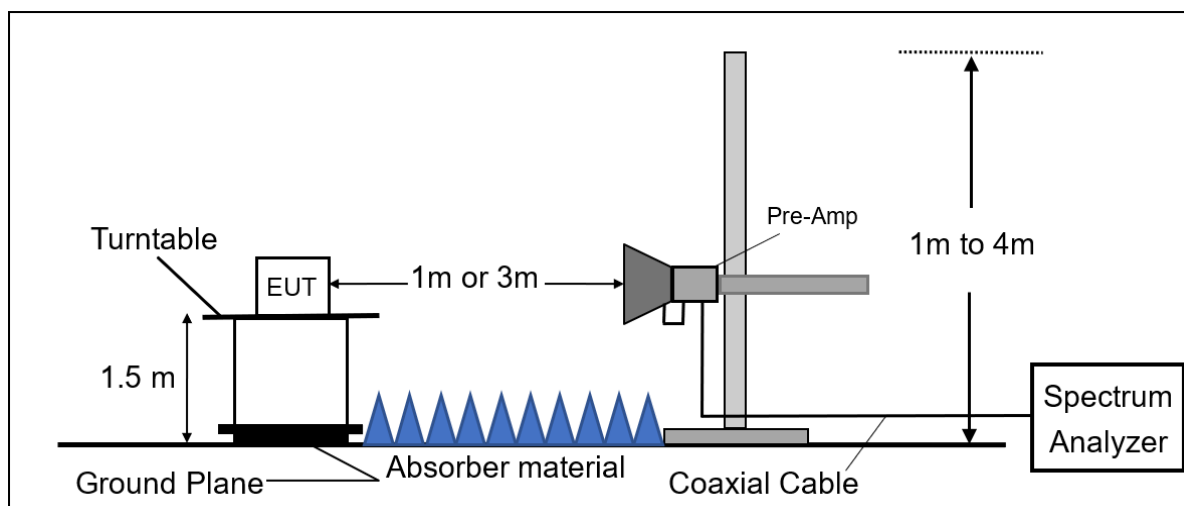
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(B) Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



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



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8.3 Measurement Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
4. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
5. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
6. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency between 30MHz and 1 GHz.
7. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency between 30MHz and 1 GHz.
8. At frequency above 1 GHz, Set the spectrum analyzer:
 - A. RBW=1 MHz, VBW=3 MHz for **Peak** Detector.
 - B. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW $\geq 1/T$ (Duty cycle < 98%) for **Average** Detector.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
11. Repeat above procedures until all frequency measured were complete.

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8.4 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

The limit of the emission level is expressed in 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)

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

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

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8.6 Radiated Spurious Emission Measurement Result

8.6.1 Spurious Emission

NB

Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

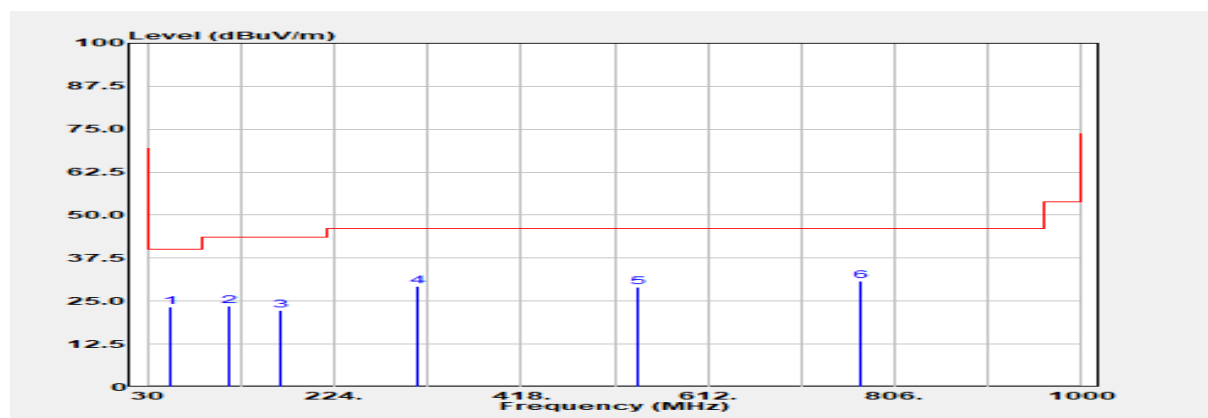
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.872	Peak	37.99	-14.55	23.43	40.00	-16.57
115.497	Peak	40.59	-17.10	23.49	43.50	-20.01
168.349	Peak	36.75	-14.53	22.22	43.50	-21.28
311.362	Peak	42.01	-12.65	29.36	46.00	-16.64
538.317	Peak	34.92	-5.90	29.02	46.00	-16.98
769.936	Peak	31.70	-0.82	30.87	46.00	-15.13

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

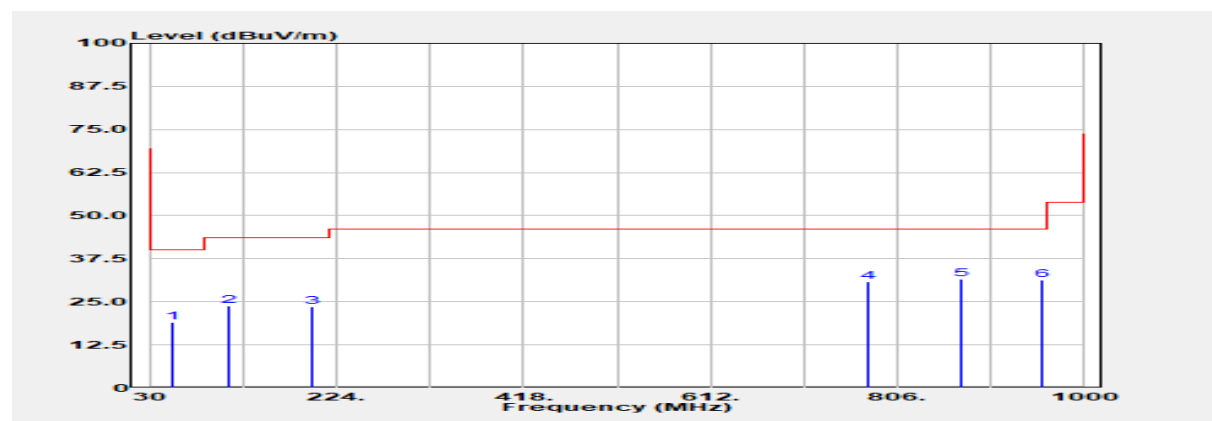
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.872	Peak	33.61	-14.55	19.05	40.00	-20.95
112.388	Peak	41.14	-17.28	23.86	43.50	-19.64
197.885	Peak	40.62	-17.14	23.49	43.50	-20.01
774.599	Peak	31.60	-0.69	30.91	46.00	-15.09
872.532	Peak	30.67	0.83	31.50	46.00	-14.50
954.920	Peak	29.77	1.60	31.37	46.00	-14.63

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

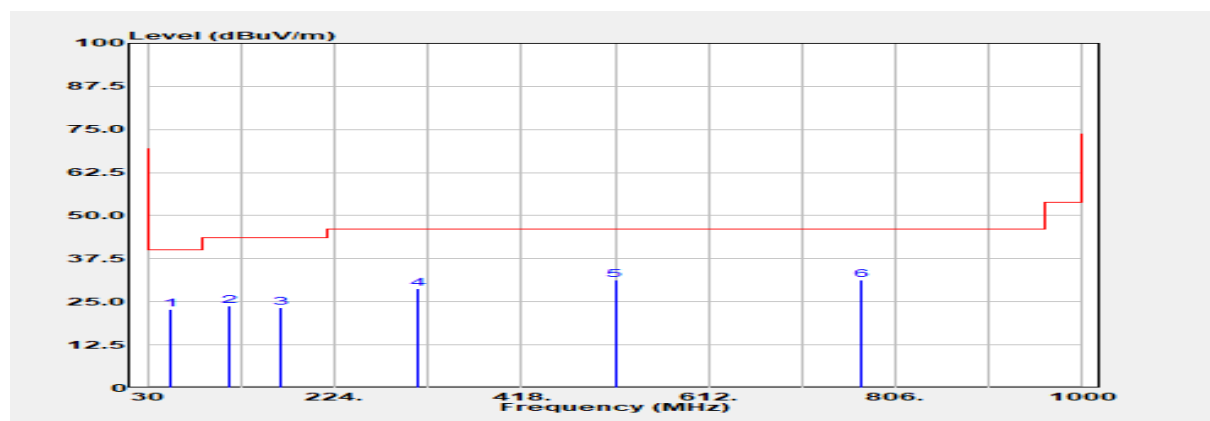
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.872	Peak	37.40	-14.55	22.85	40.00	-17.15
113.942	Peak	41.03	-17.24	23.79	43.50	-19.71
168.349	Peak	37.84	-14.53	23.31	43.50	-20.19
311.362	Peak	41.54	-12.65	28.90	46.00	-17.10
515.000	Peak	38.46	-7.09	31.37	46.00	-14.63
769.936	Peak	32.18	-0.82	31.36	46.00	-14.64

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

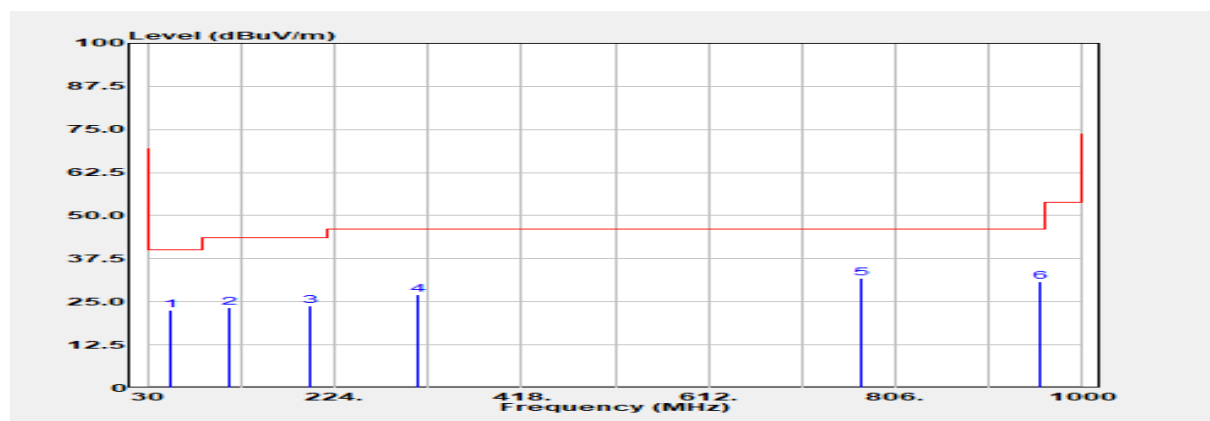
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
54.872	Peak	37.21	-14.55	22.66	40.00	-17.34
113.942	Peak	40.44	-17.24	23.21	43.50	-20.29
199.439	Peak	40.88	-17.13	23.75	43.50	-19.75
311.362	Peak	39.77	-12.65	27.13	46.00	-18.87
769.936	Peak	32.64	-0.82	31.82	46.00	-14.18
954.920	Peak	29.21	1.60	30.81	46.00	-15.19

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

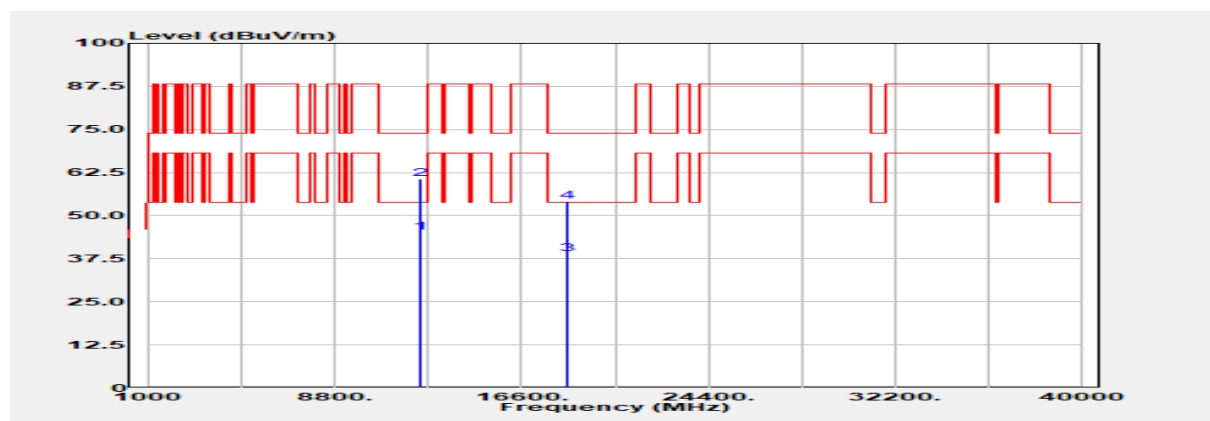
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12350.000	Average	19.46	25.70	45.16	54.00	-8.84
12350.000	Peak	35.05	25.70	60.75	74.00	-13.25
18525.000	Average	20.33	18.64	38.97	54.00	-15.03
18525.000	Peak	35.54	18.64	54.19	74.00	-19.81

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

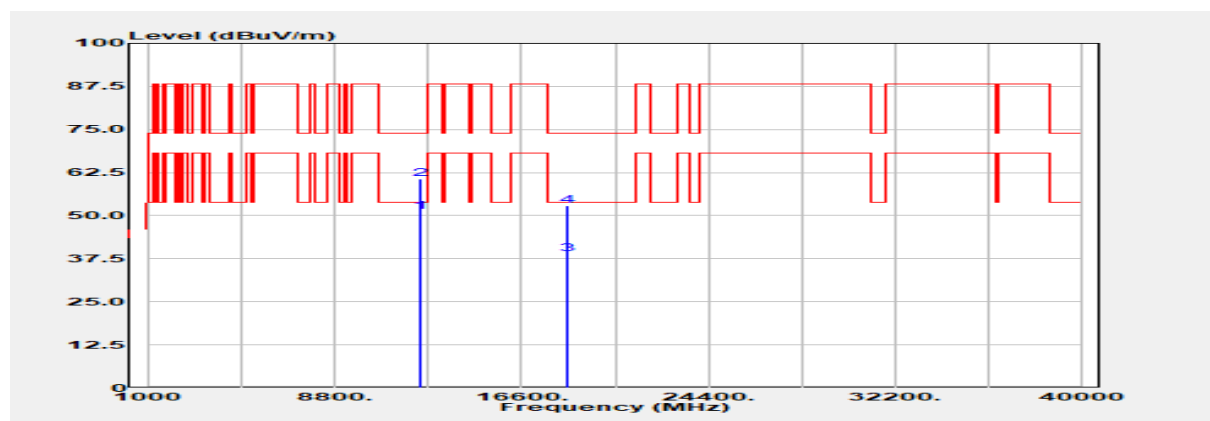
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
12350.000	Average	25.43	25.70	51.13	54.00	-2.87
12350.000	Peak	34.91	25.70	60.62	74.00	-13.38
18525.000	Average	20.23	18.64	38.87	54.00	-15.13
18525.000	Peak	34.12	18.64	52.77	74.00	-21.23

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

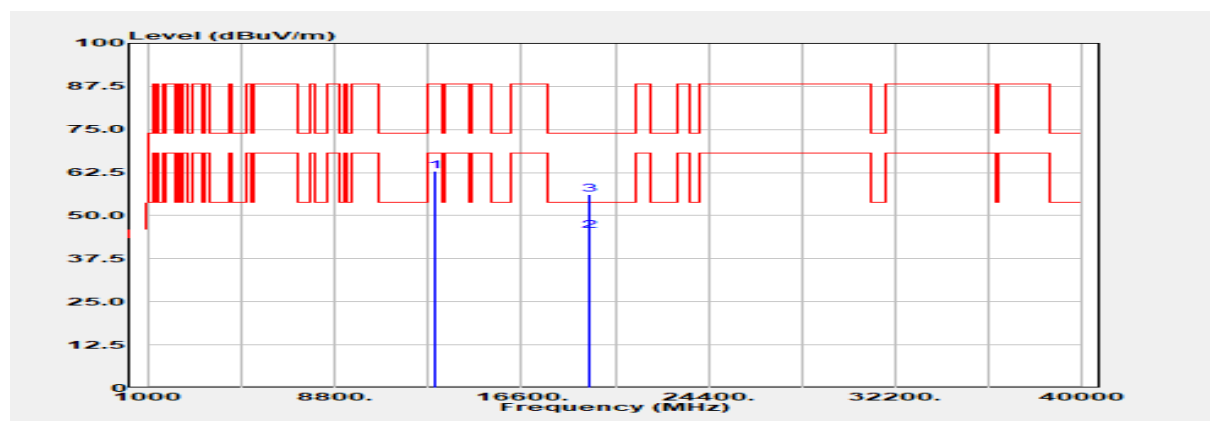
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
12950.000	Peak	35.60	27.30	62.91	88.20	-25.29
19425.000	Average	26.72	18.95	45.67	54.00	-8.33
19425.000	Peak	37.10	18.95	56.05	74.00	-17.95

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

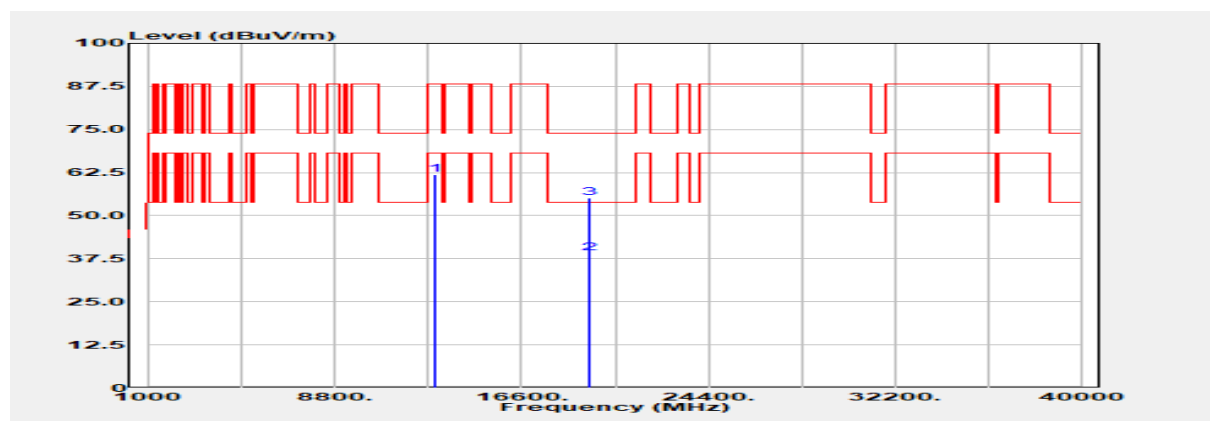
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
12950.000	Peak	34.67	27.30	61.98	88.20	-26.22
19425.000	Average	20.23	18.95	39.18	54.00	-14.82
19425.000	Peak	36.20	18.95	55.15	74.00	-18.85

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TB

Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

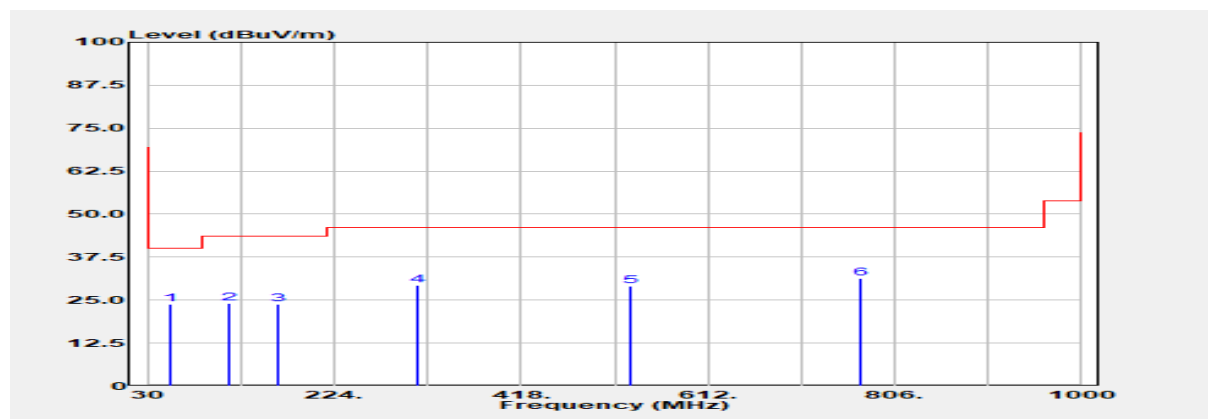
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



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
53.317	Peak	38.20	-14.32	23.88	40.00	-16.12
113.942	Peak	41.41	-17.24	24.18	43.50	-19.32
166.795	Peak	38.33	-14.48	23.85	43.50	-19.65
311.362	Peak	41.90	-12.65	29.25	46.00	-16.75
530.545	Peak	35.14	-6.11	29.02	46.00	-16.98
769.936	Peak	32.27	-0.82	31.45	46.00	-14.55

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

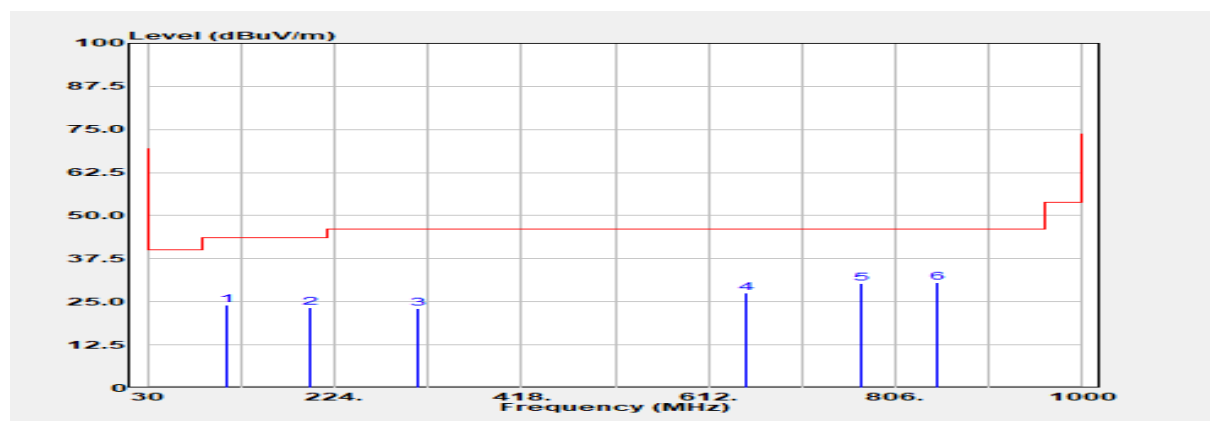
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
112.388	Peak	41.23	-17.28	23.95	43.50	-19.55
199.439	Peak	40.41	-17.13	23.28	43.50	-20.22
311.362	Peak	35.59	-12.65	22.94	46.00	-23.06
651.795	Peak	30.74	-3.20	27.55	46.00	-18.45
771.490	Peak	31.09	-0.78	30.31	46.00	-15.69
849.215	Peak	31.15	-0.69	30.47	46.00	-15.53

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

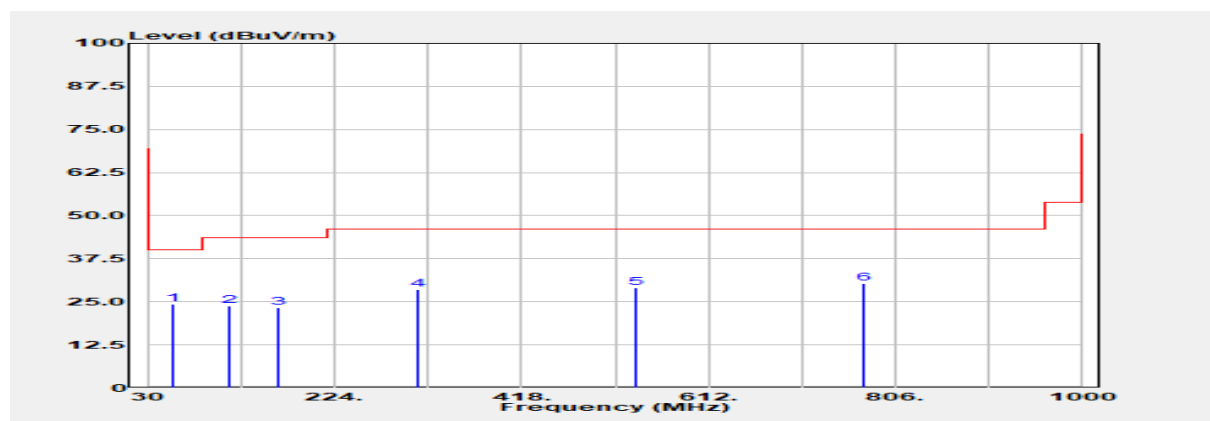
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



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
56.426	Peak	38.77	-14.54	24.23	40.00	-15.77
113.942	Peak	41.12	-17.24	23.88	43.50	-19.62
166.795	Peak	37.77	-14.48	23.29	43.50	-20.21
311.362	Peak	41.11	-12.65	28.47	46.00	-17.53
536.763	Peak	35.09	-5.91	29.18	46.00	-16.82
773.045	Peak	31.03	-0.73	30.29	46.00	-15.71

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

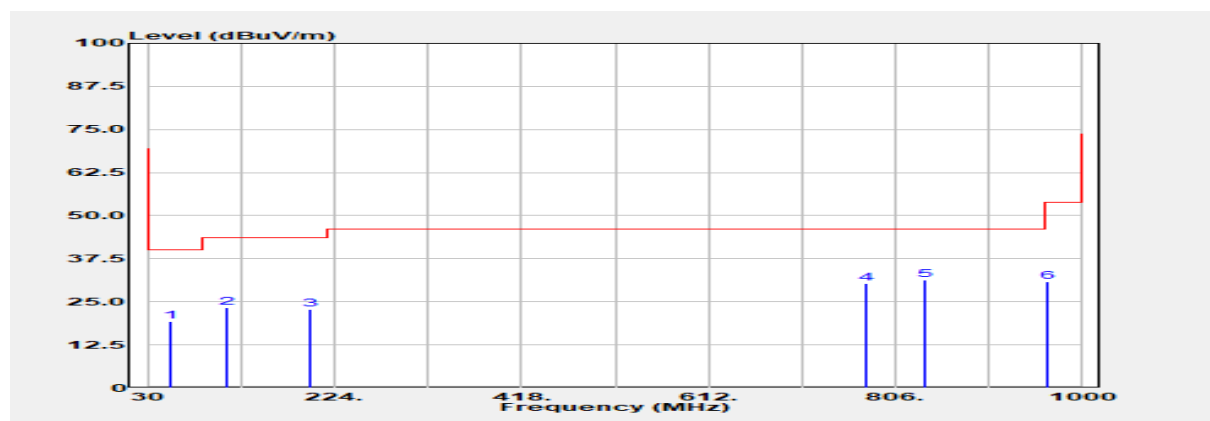
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



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
54.872	Peak	33.92	-14.55	19.37	40.00	-20.63
112.388	Peak	40.61	-17.28	23.33	43.50	-20.17
199.439	Peak	39.99	-17.13	22.86	43.50	-20.64
776.154	Peak	31.12	-0.68	30.43	46.00	-15.57
836.779	Peak	32.10	-0.82	31.28	46.00	-14.72
962.692	Peak	28.76	1.99	30.75	54.00	-23.25

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

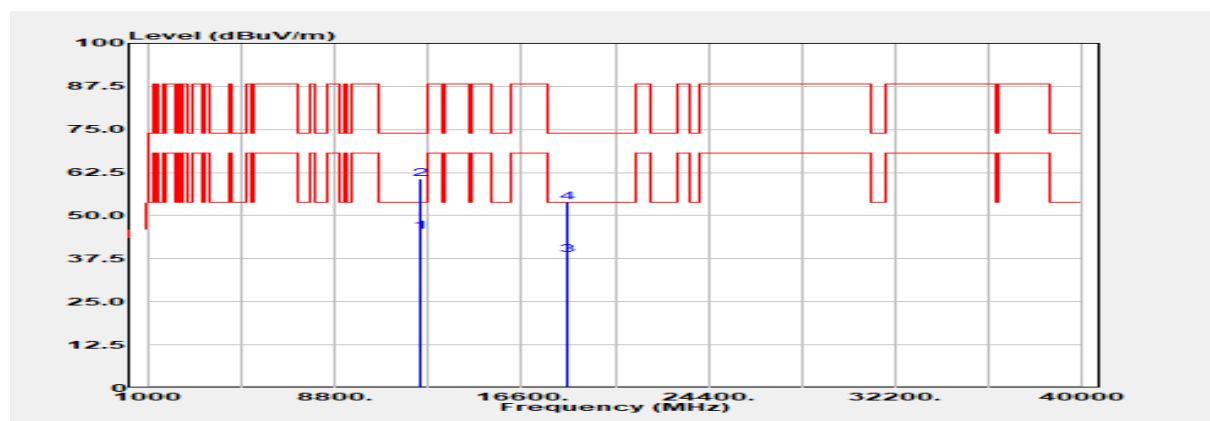
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
12350.000	Average	19.77	25.70	45.47	54.00	-8.53
12350.000	Peak	35.03	25.70	60.73	74.00	-13.27
18525.000	Average	19.96	18.64	38.60	54.00	-15.40
18525.000	Peak	35.29	18.64	53.94	74.00	-20.06

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6175 MHz

Temp./Humi. :19.8/70

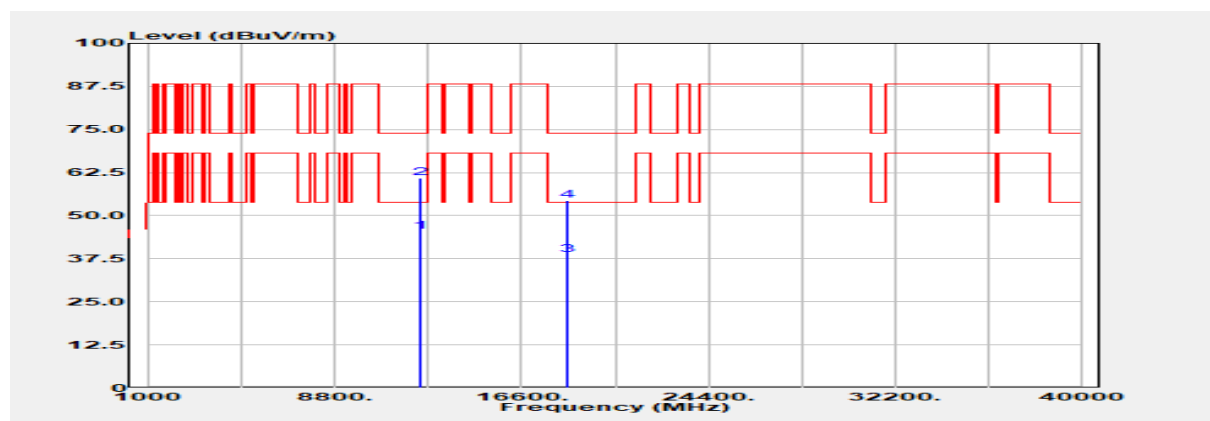
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level	dB	FS	@3m	dB
	PK/QP/AV	dBμV		dBμV/m	dBμV/m	
12350.000	Average	19.69	25.70	45.39	54.00	-8.61
12350.000	Peak	35.19	25.70	60.89	74.00	-13.11
18525.000	Average	20.03	18.64	38.67	54.00	-15.33
18525.000	Peak	35.82	18.64	54.46	74.00	-19.54

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

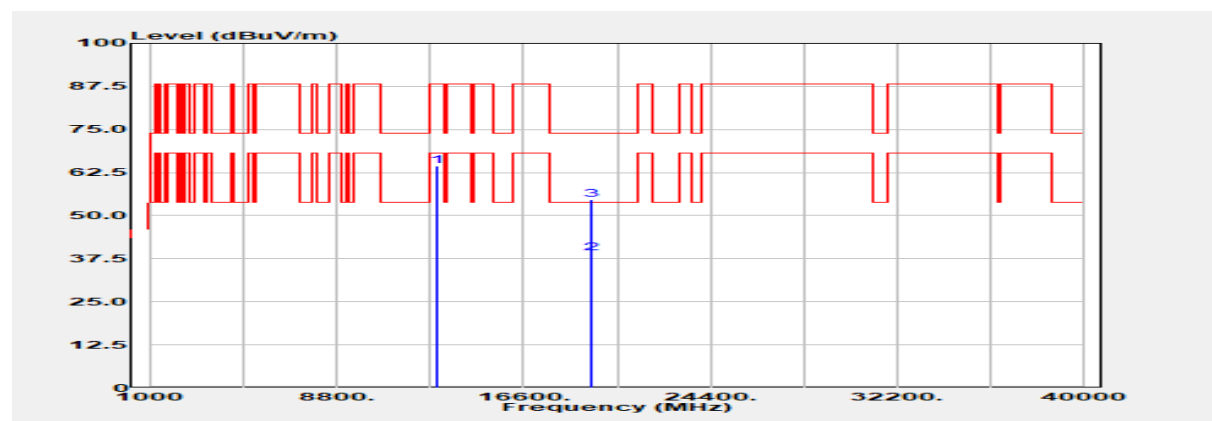
Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
12950.000	Peak	37.07	27.30	64.37	88.20	-23.83
19425.000	Average	20.24	18.95	39.19	54.00	-14.81
19425.000	Peak	35.66	18.95	54.62	74.00	-19.38

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-05-15

Test Frequency :6475 MHz

Temp./Humi. :19.8/70

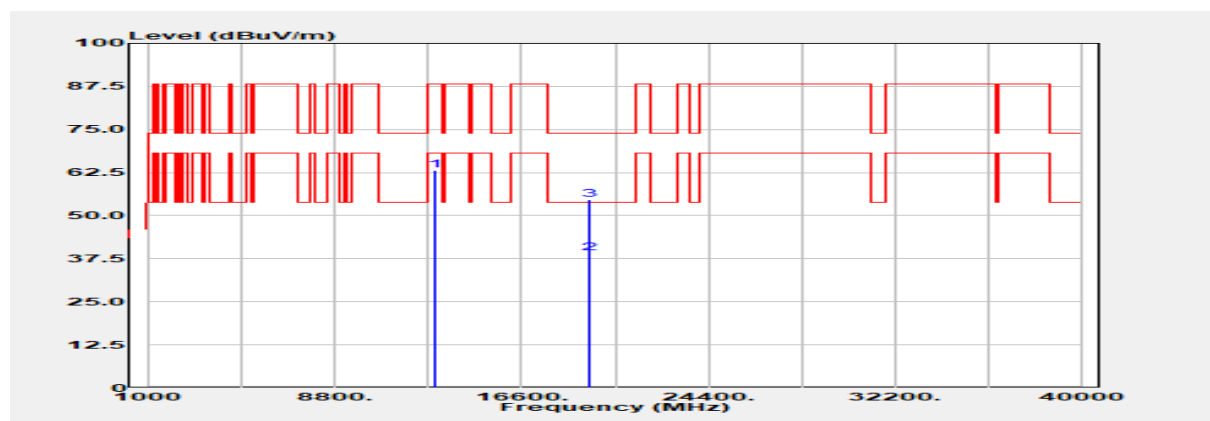
Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
12950.000	Peak	35.95	27.30	63.25	88.20	-24.95
19425.000	Average	20.22	18.95	39.17	54.00	-14.83
19425.000	Peak	35.80	18.95	54.76	74.00	-19.24

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8.6.2 Band edge falling to restricted band NB

Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-15

Test Frequency :5955 MHz

Temp./Humi. :21.1/68

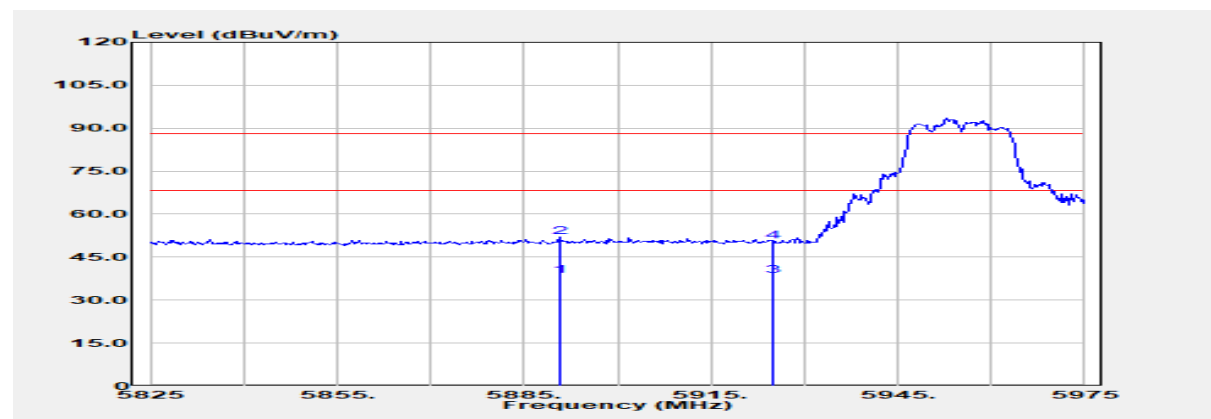
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



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
5890.625	Average	26.14	12.24	38.38	68.20	-29.82
5890.625	Peak	39.65	12.24	51.89	88.20	-36.31
5925.000	Average	26.40	12.22	38.62	68.20	-29.58
5925.000	Peak	38.18	12.22	50.40	88.20	-37.80

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-15

Test Frequency :5955 MHz

Temp./Humi. :21.1/68

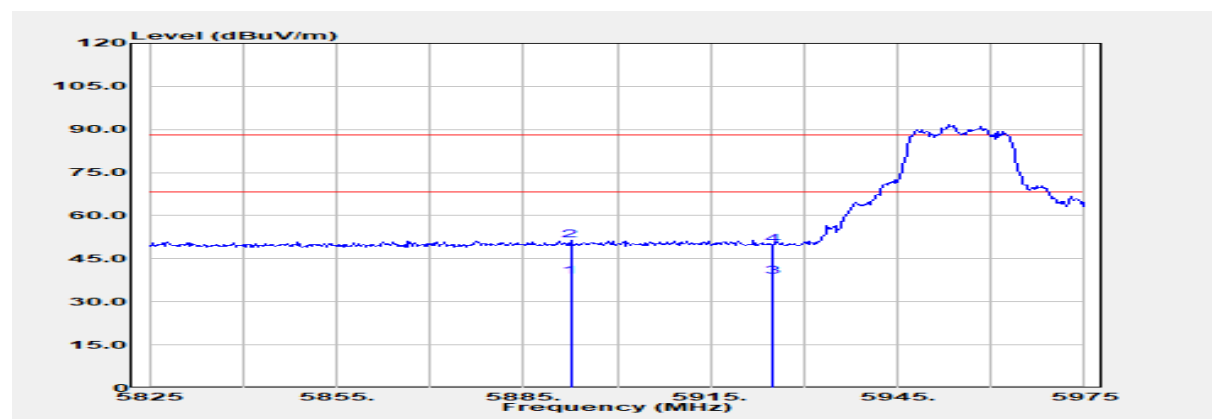
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5892.548	Average	26.60	12.26	38.86	68.20	-29.34
5892.548	Peak	39.22	12.26	51.48	88.20	-36.72
5925.000	Average	26.71	12.22	38.93	68.20	-29.27
5925.000	Peak	37.78	12.22	50.00	88.20	-38.20

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-15

Test Frequency :7115 MHz

Temp./Humi. :21.1/68

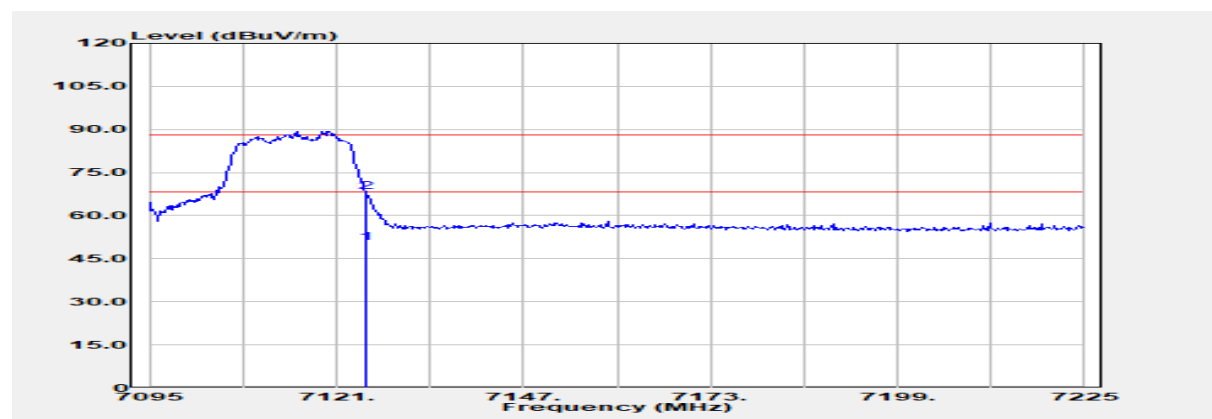
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	33.08	17.58	50.66	68.20	-17.54
7125.000	Peak	50.54	17.58	68.13	88.20	-20.07

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-15

Test Frequency :7115 MHz

Temp./Humi. :21.1/68

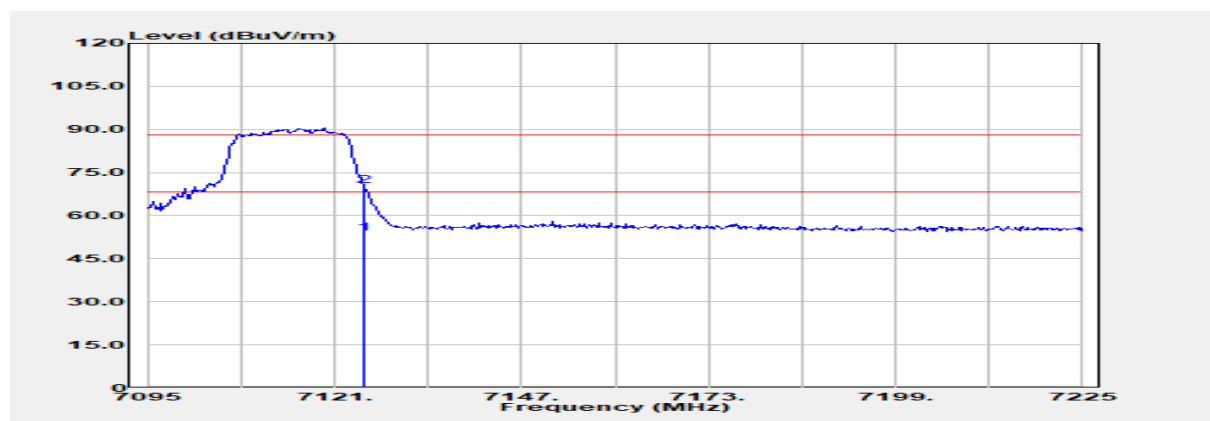
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :NB Plane

Engineer :Andy Wang

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Average	36.33	17.58	53.91	68.20	-14.29
7125.000	Peak	52.89	17.58	70.47	88.20	-17.73

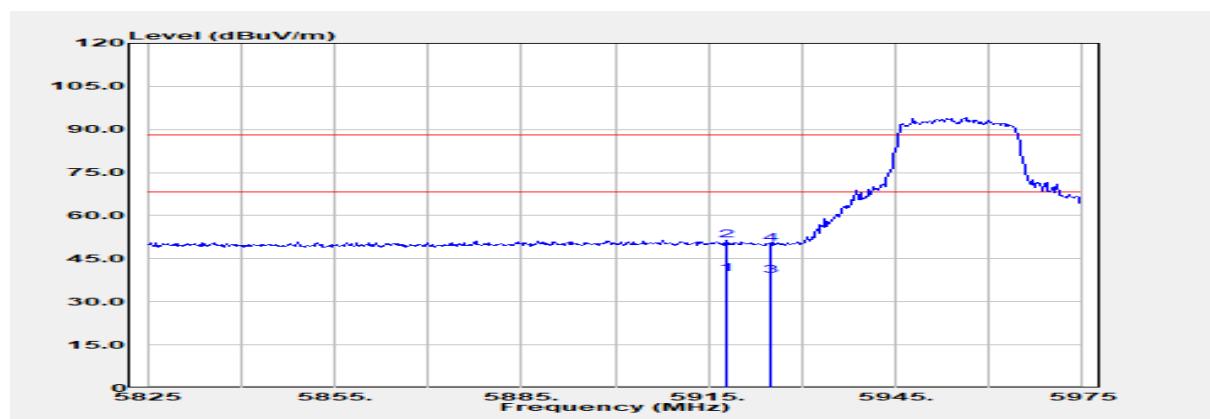
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5918.029	Average	27.38	12.25	39.63	68.20	-28.57
5918.029	Peak	39.22	12.25	51.47	88.20	-36.73
5925.000	Average	26.95	12.22	39.17	68.20	-29.03
5925.000	Peak	37.95	12.22	50.17	88.20	-38.03

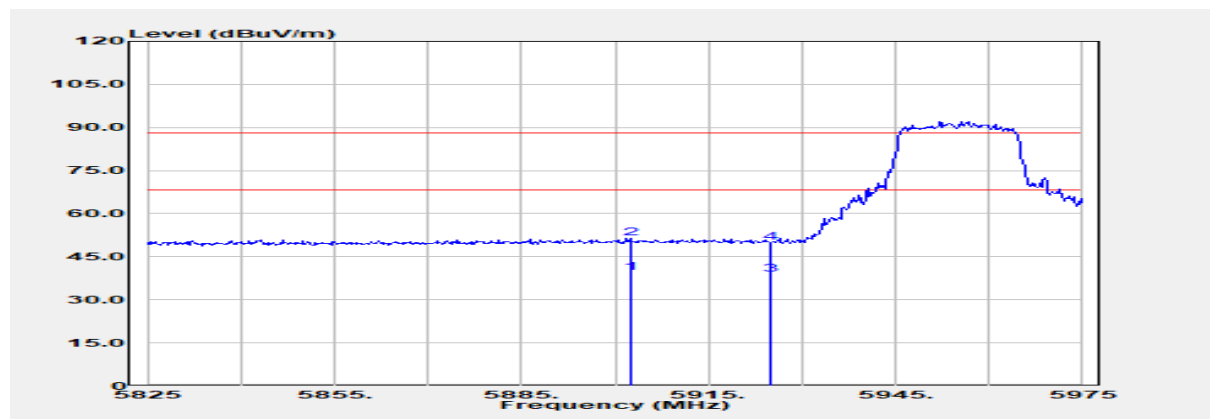
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5902.404	Average	27.21	12.33	39.54	68.20	-28.66
5902.404	Peak	39.02	12.33	51.35	88.20	-36.85
5925.000	Average	26.73	12.22	38.95	68.20	-29.25
5925.000	Peak	37.69	12.22	49.91	88.20	-38.29

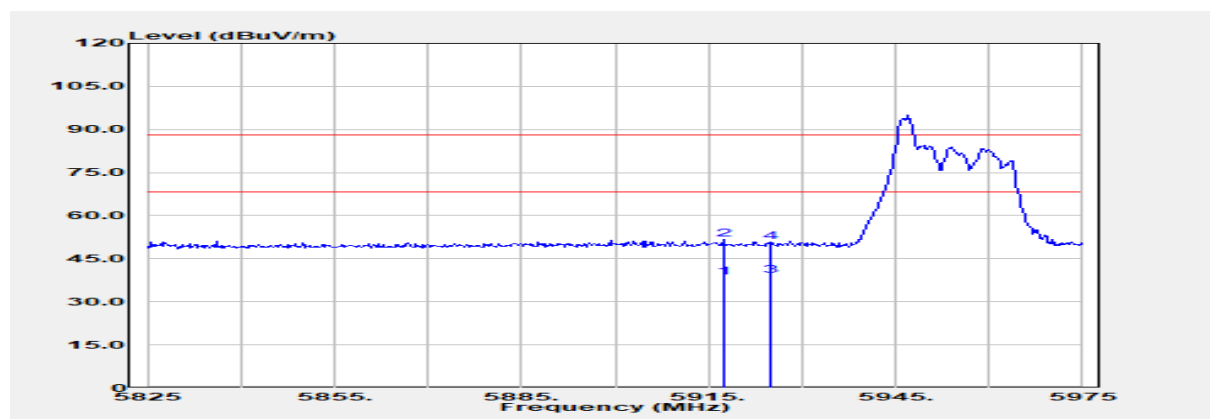
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5917.308	Average	26.35	12.25	38.60	68.20	-29.60
5917.308	Peak	39.59	12.25	51.84	88.20	-36.36
5925.000	Average	26.90	12.22	39.12	68.20	-29.08
5925.000	Peak	38.50	12.22	50.72	88.20	-37.48

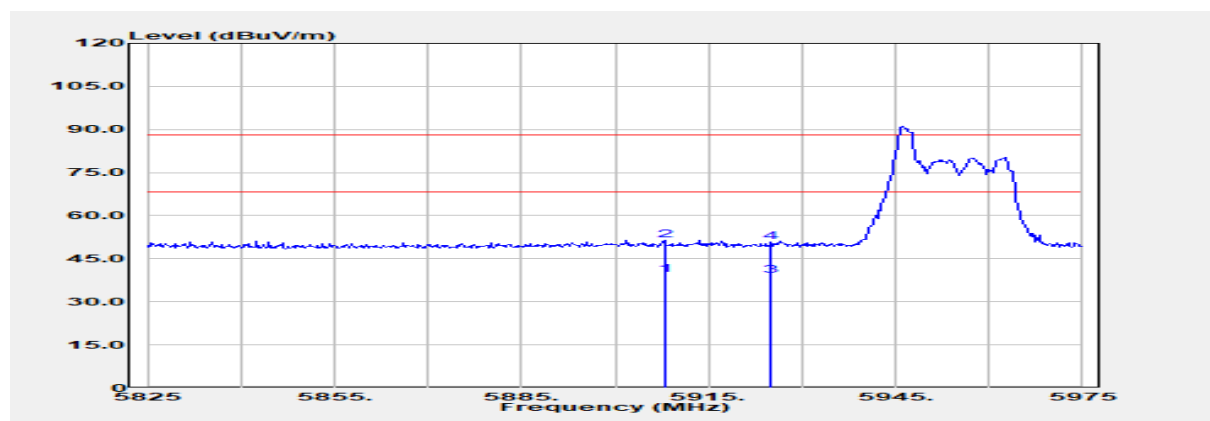
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 26/0
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5907.933	Average	27.11	12.30	39.41	68.20	-28.79
5907.933	Peak	39.20	12.30	51.50	88.20	-36.70
5925.000	Average	26.79	12.22	39.01	68.20	-29.19
5925.000	Peak	38.47	12.22	50.69	88.20	-37.51

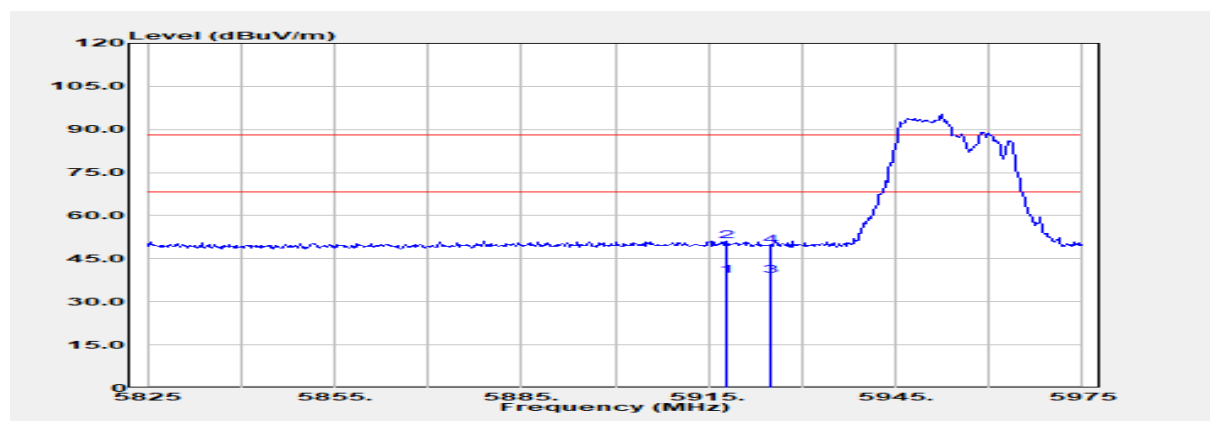
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 106/53
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5918.029	Average	26.98	12.25	39.23	68.20	-28.97
5918.029	Peak	38.87	12.25	51.12	88.20	-37.08
5925.000	Average	26.87	12.22	39.09	68.20	-29.11
5925.000	Peak	37.42	12.22	49.64	88.20	-38.56

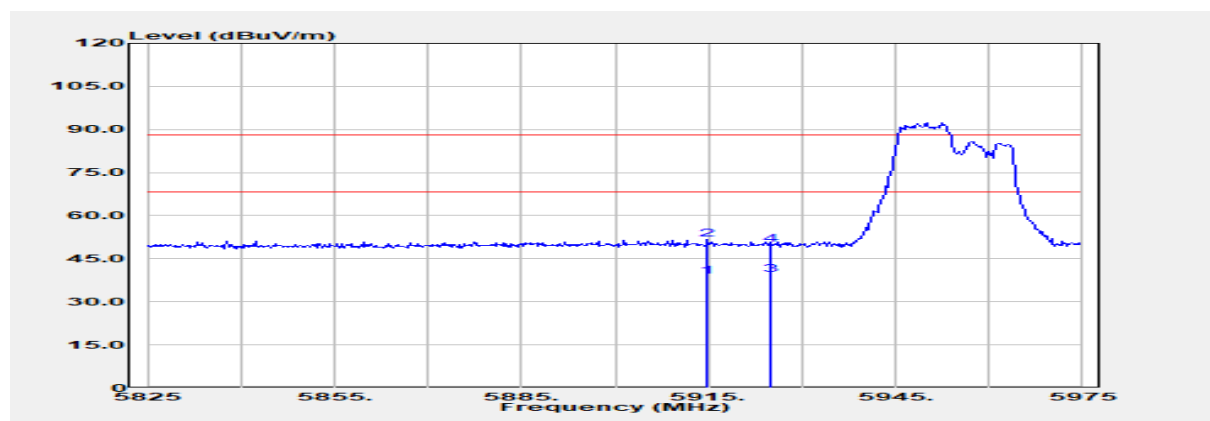
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz
Test Mode :BE CH LOW RU 106/53
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



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
5914.904	Average	26.39	12.27	38.66	68.20	-29.54
5914.904	Peak	39.37	12.27	51.63	88.20	-36.57
5925.000	Average	27.15	12.22	39.37	68.20	-28.83
5925.000	Peak	37.73	12.22	49.95	88.20	-38.25

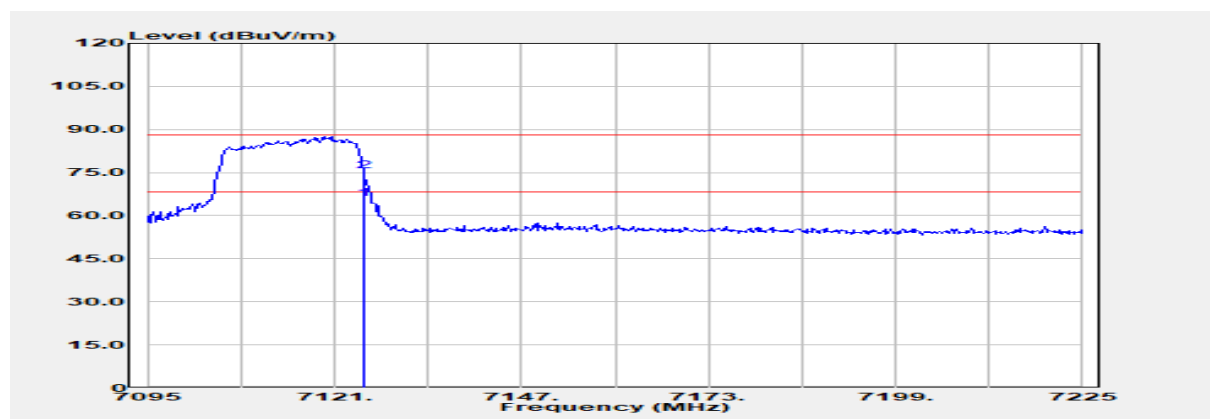
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	48.29	17.58	65.87	68.20	-2.33
7125.000	Peak	57.92	17.58	75.51	88.20	-12.69

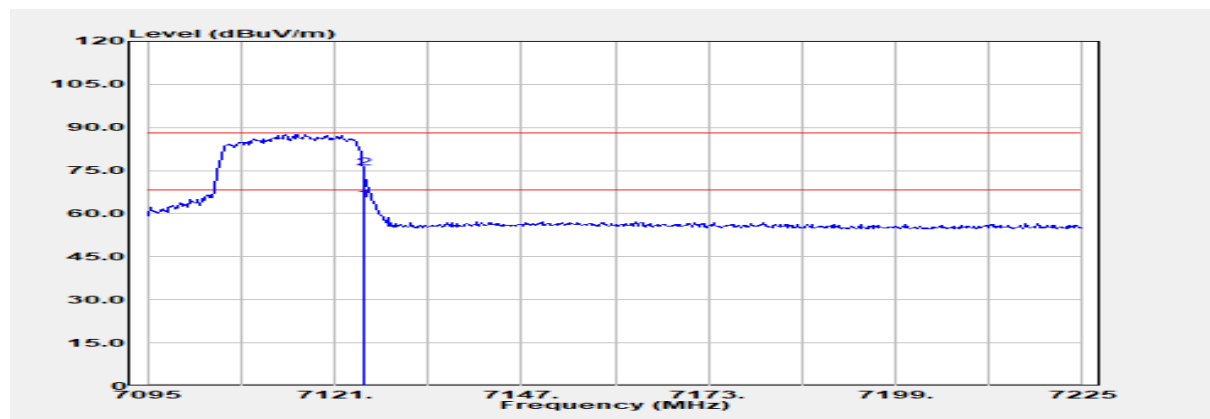
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	47.01	17.58	64.59	68.20	-3.61
7125.000	Peak	58.08	17.58	75.66	88.20	-12.54

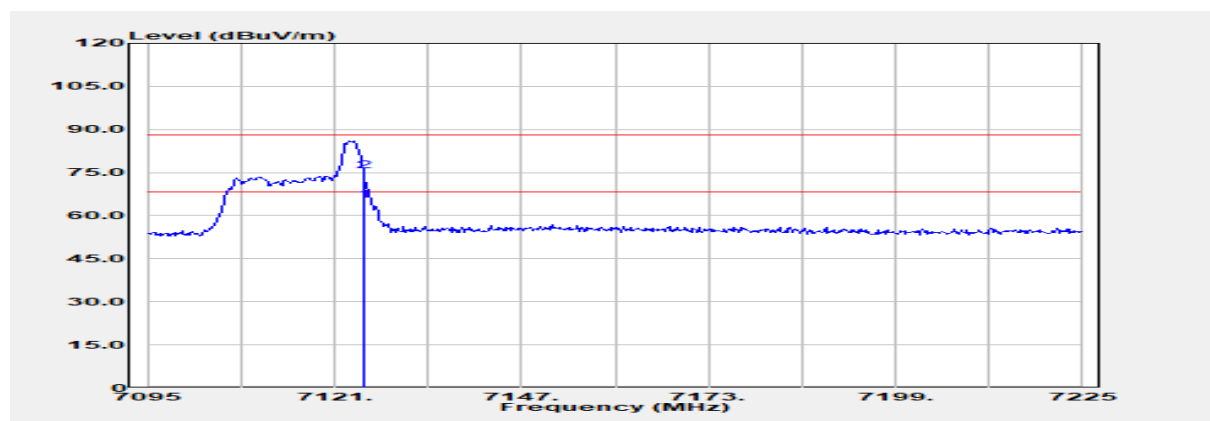
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 26/8
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	47.82	17.58	65.40	68.20	-2.80
7125.000	Peak	57.99	17.58	75.57	88.20	-12.63

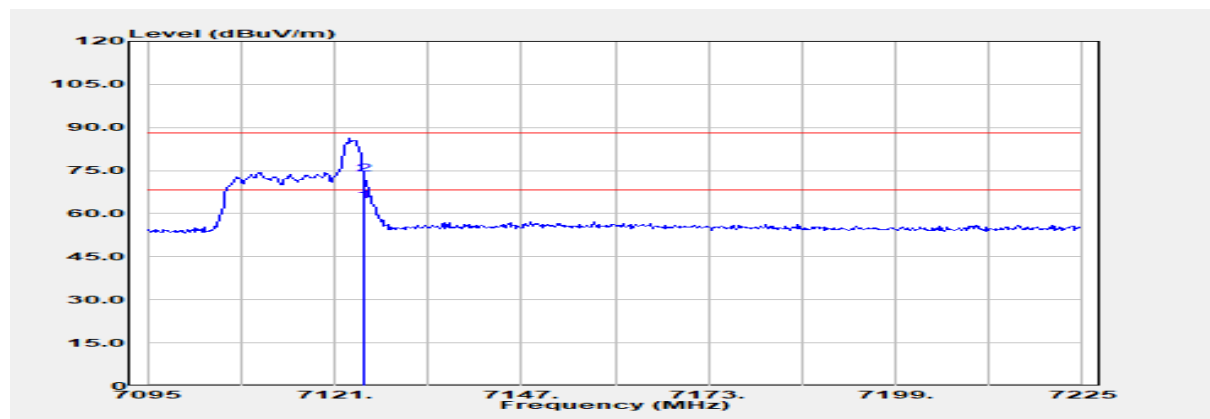
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 26/8
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	46.83	17.58	64.41	68.20	-3.79
7125.000	Peak	56.06	17.58	73.64	88.20	-14.56

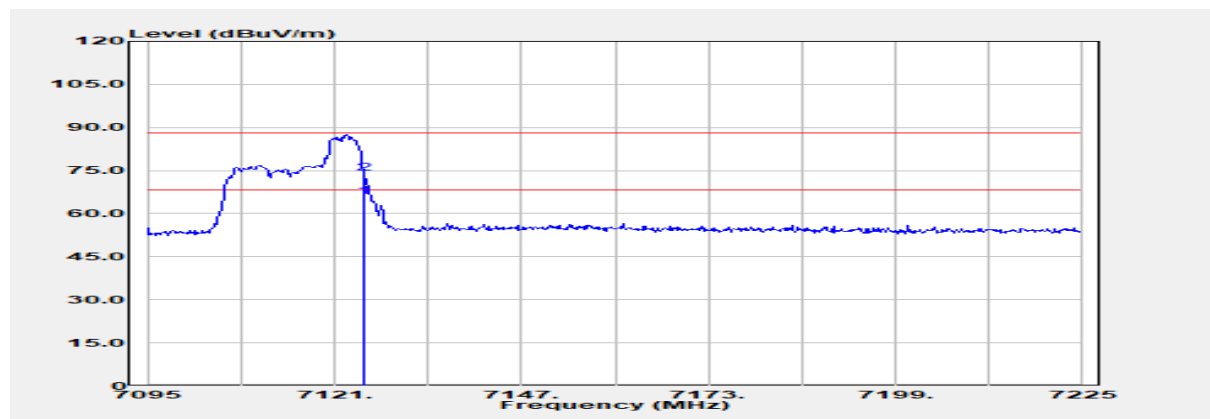
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 52/40
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	48.19	17.58	65.77	68.20	-2.43
7125.000	Peak	56.43	17.58	74.01	88.20	-14.19

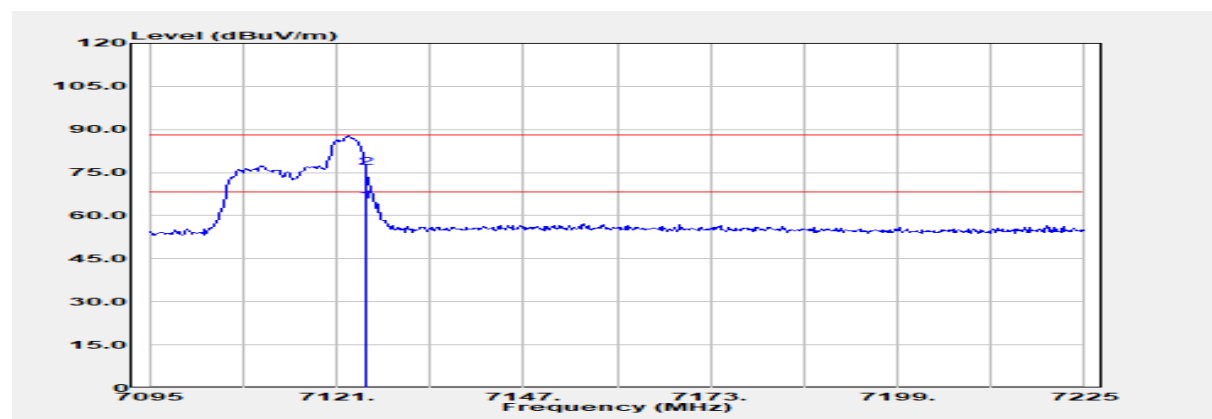
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 52/40
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	47.52	17.58	65.10	68.20	-3.10
7125.000	Peak	59.07	17.58	76.65	88.20	-11.55

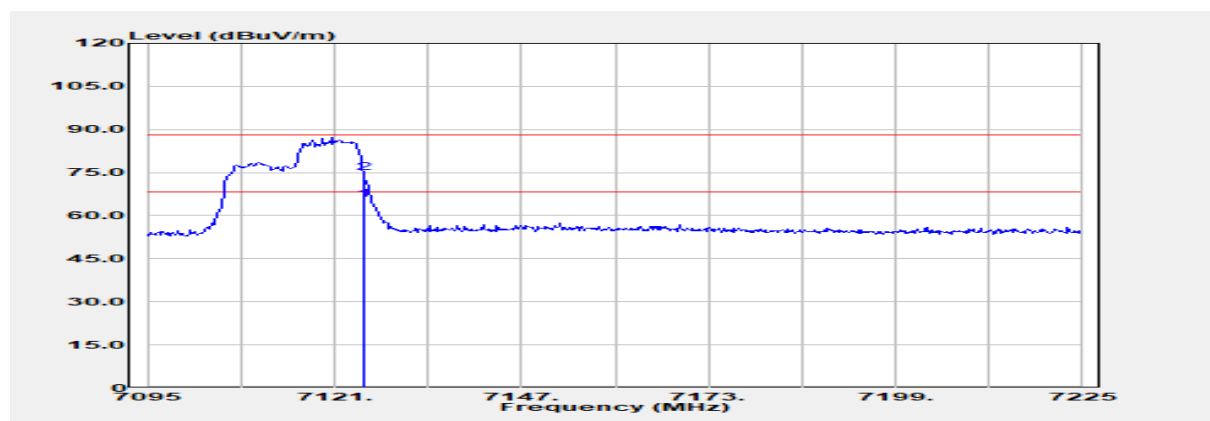
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 106/54
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	48.03	17.58	65.61	68.20	-2.59
7125.000	Peak	57.39	17.58	74.98	88.20	-13.22

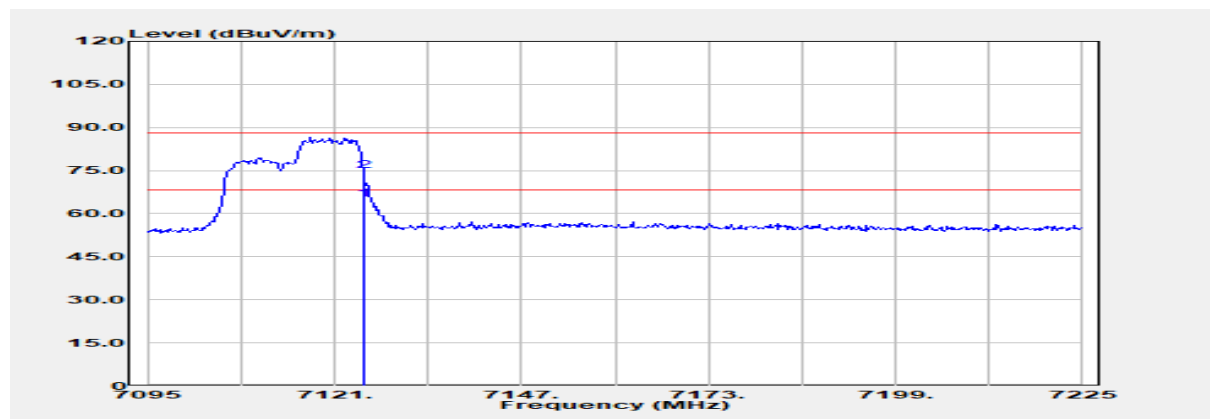
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz
Test Mode :BE CH HIGH RU 106/54
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	47.50	17.58	65.08	68.20	-3.12
7125.000	Peak	57.38	17.58	74.96	88.20	-13.24

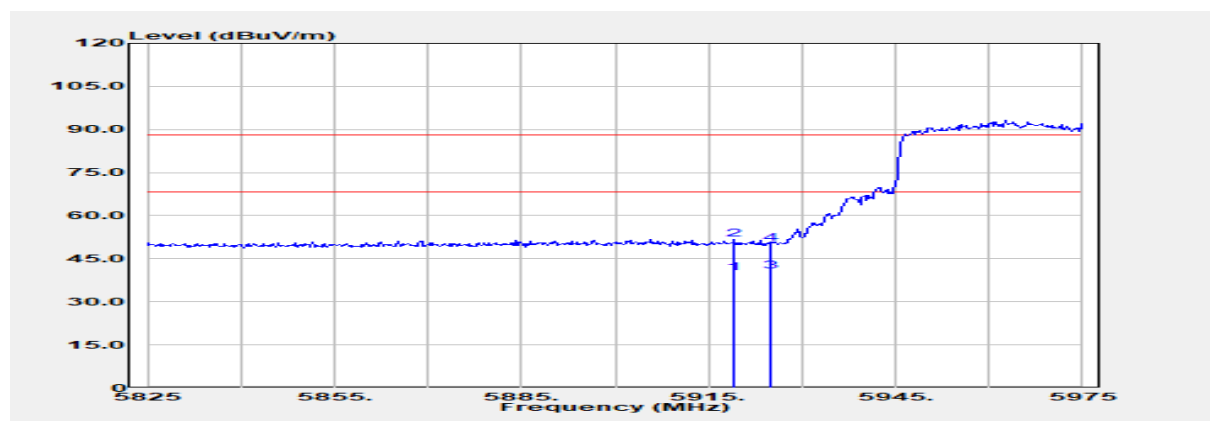
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



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
5919.231	Average	27.90	12.25	40.15	68.20	-28.05
5919.231	Peak	39.47	12.25	51.71	88.20	-36.49
5925.000	Average	28.49	12.22	40.71	68.20	-27.49
5925.000	Peak	37.99	12.22	50.20	88.20	-38.00

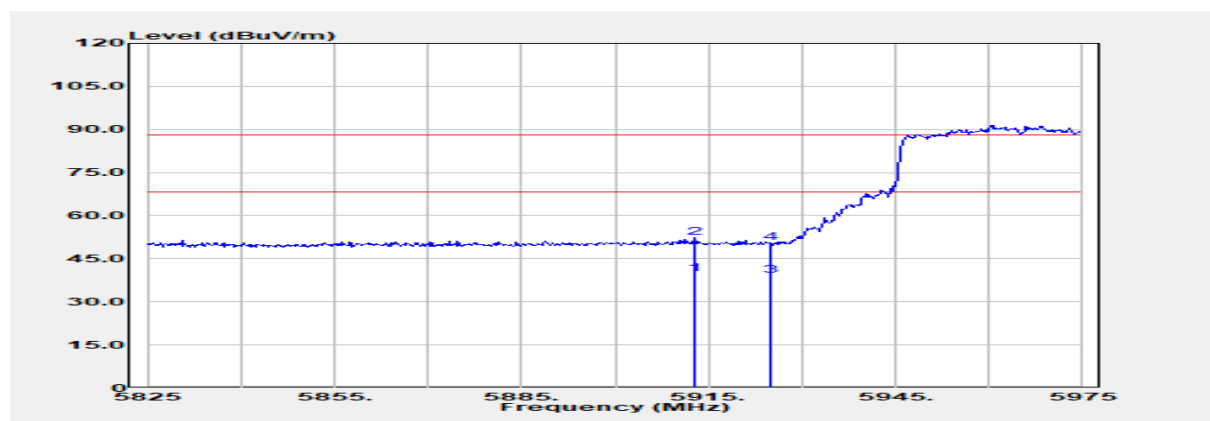
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :5965 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



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
5912.740	Average	27.50	12.28	39.78	68.20	-28.42
5912.740	Peak	40.10	12.28	52.38	88.20	-35.82
5925.000	Average	26.89	12.22	39.11	68.20	-29.09
5925.000	Peak	38.20	12.22	50.41	88.20	-37.79

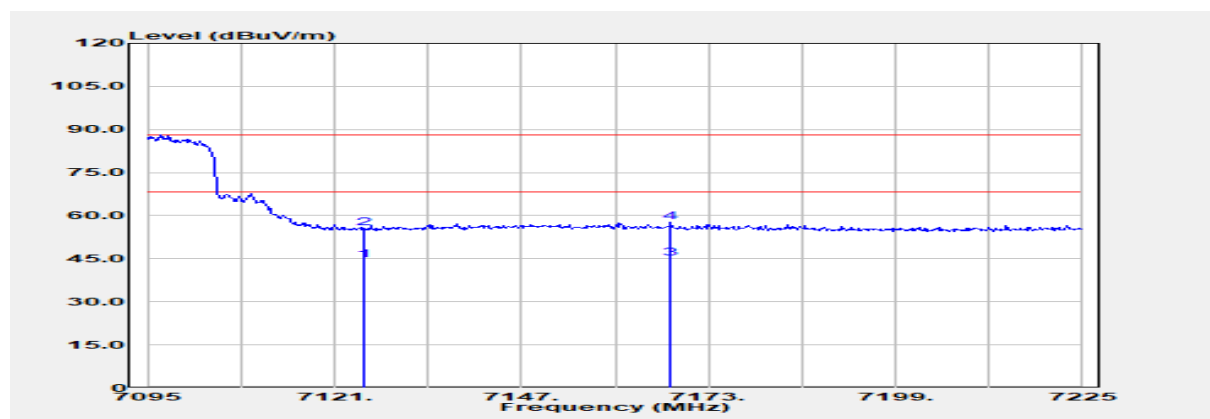
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	26.81	17.58	44.39	68.20	-23.81
7125.000	Peak	38.13	17.58	55.72	88.20	-32.48
7167.708	Average	26.98	18.14	45.12	68.20	-23.08
7167.708	Peak	39.56	18.14	57.70	88.20	-30.50

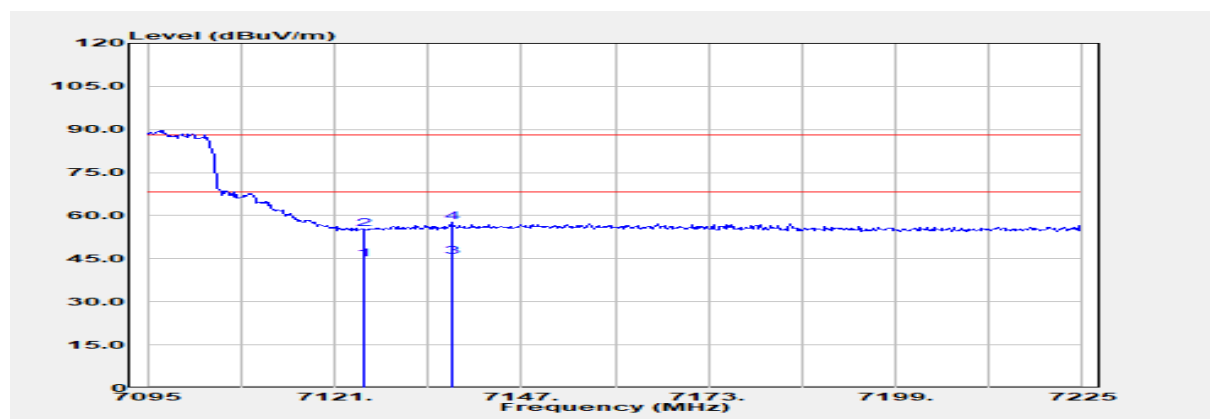
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :7085 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	27.14	17.58	44.72	68.20	-23.48
7125.000	Peak	37.67	17.58	55.26	88.20	-32.94
7137.292	Average	27.75	18.06	45.81	68.20	-22.39
7137.292	Peak	39.55	18.06	57.61	88.20	-30.59

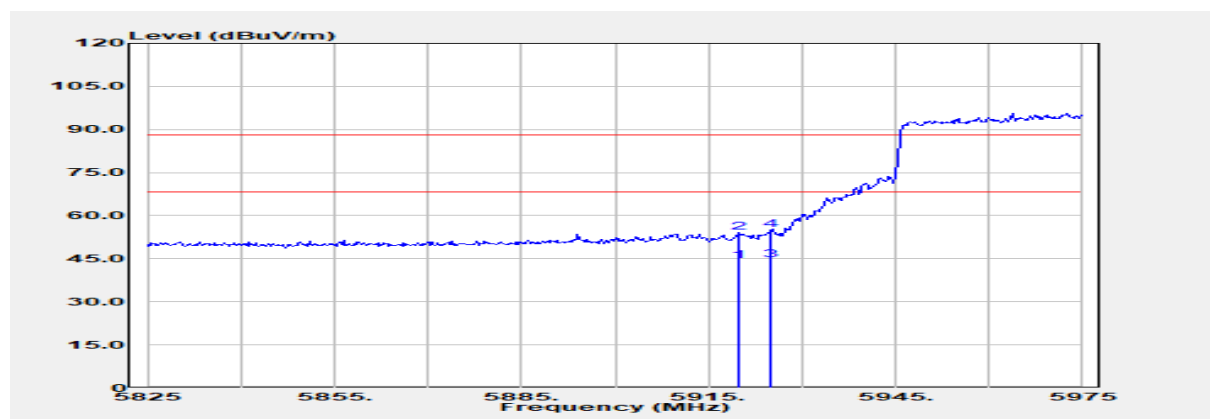
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :5985 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5919.952	Average	31.84	12.24	44.08	68.20	-24.12
5919.952	Peak	41.80	12.24	54.04	88.20	-34.16
5925.000	Average	32.24	12.22	44.46	68.20	-23.74
5925.000	Peak	42.90	12.22	55.12	88.20	-33.08

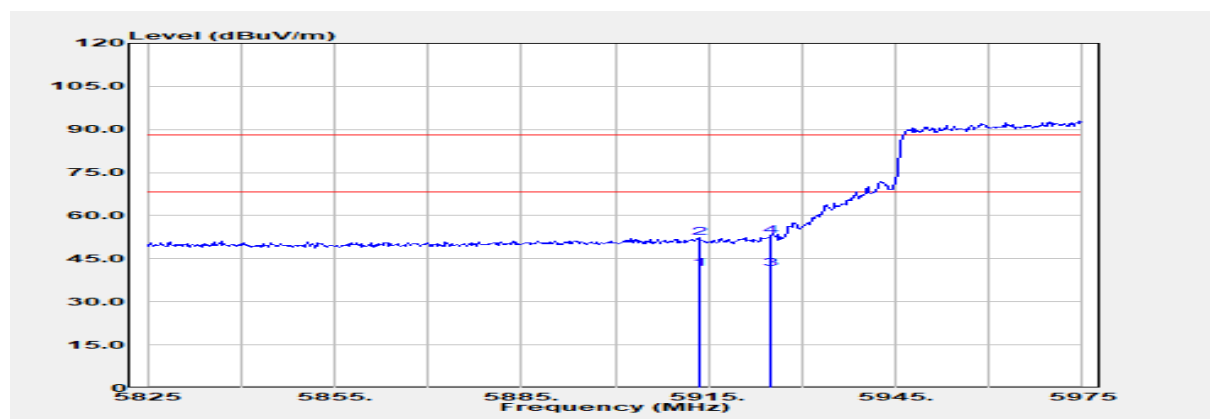
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :5985 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5913.461	Average	29.28	12.27	41.55	68.20	-26.65
5913.461	Peak	40.15	12.27	52.42	88.20	-35.78
5925.000	Average	29.30	12.22	41.52	68.20	-26.68
5925.000	Peak	40.83	12.22	53.05	88.20	-35.15

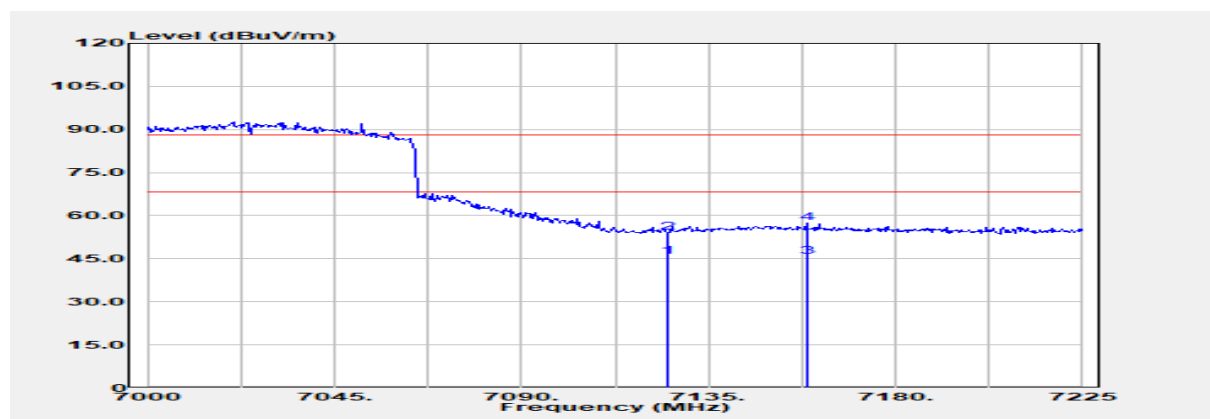
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :7025 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
7125.000	Average	28.13	17.58	45.71	68.20	-22.49
7125.000	Peak	36.68	17.58	54.27	88.20	-33.93
7158.654	Average	27.39	18.35	45.74	68.20	-22.46
7158.654	Peak	39.07	18.35	57.42	88.20	-30.78

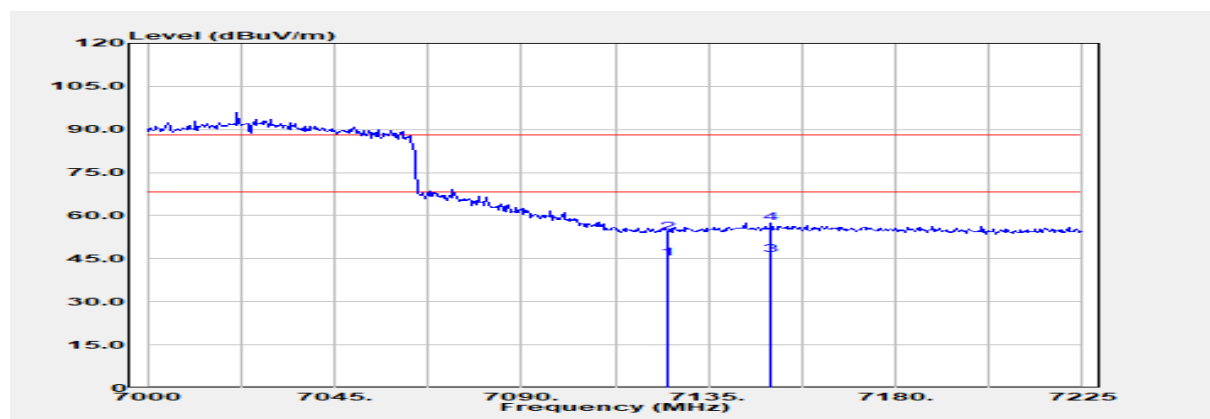
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :7025 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	27.52	17.58	45.10	68.20	-23.10
7125.000	Peak	36.59	17.58	54.18	88.20	-34.02
7150.000	Average	27.91	18.55	46.46	68.20	-21.74
7150.000	Peak	38.86	18.55	57.41	88.20	-30.79

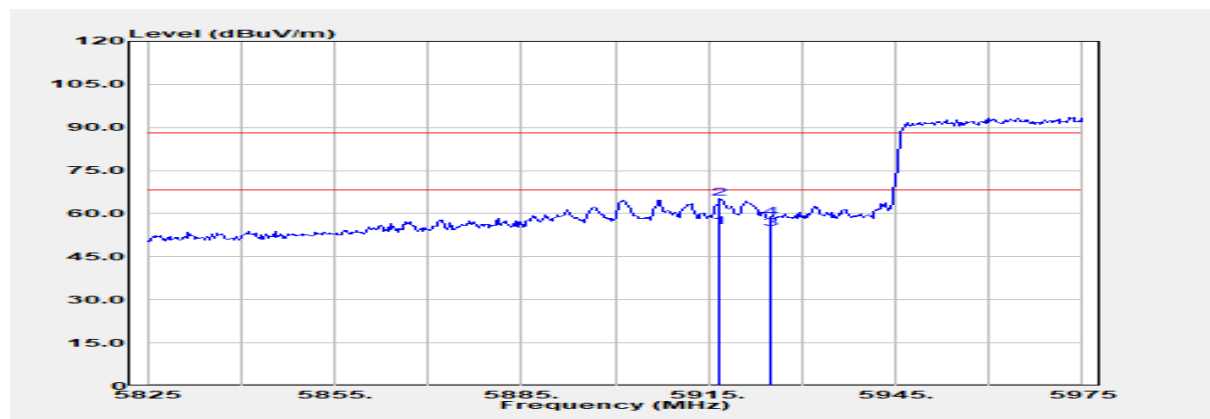
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6025 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



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
5916.827	Average	42.96	12.26	55.22	68.20	-12.98
5916.827	Peak	53.03	12.26	65.29	88.20	-22.91
5925.000	Average	42.46	12.22	54.68	68.20	-13.52
5925.000	Peak	46.51	12.22	58.73	88.20	-29.47

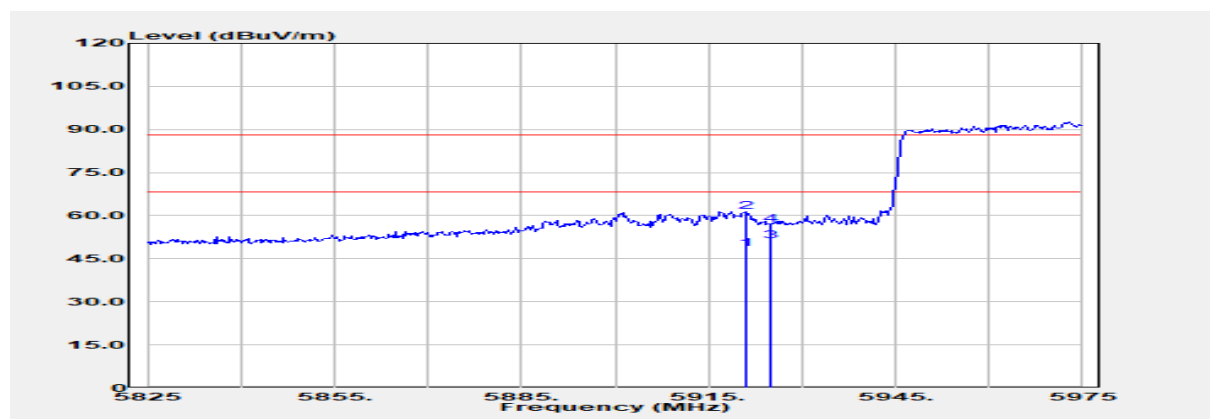
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6025 MHz
Test Mode :BE CH LOW FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5920.914	Average	36.25	12.24	48.49	68.20	-19.71
5920.914	Peak	49.17	12.24	61.41	88.20	-26.79
5925.000	Average	38.82	12.22	51.04	68.20	-17.16
5925.000	Peak	44.66	12.22	56.88	88.20	-31.32

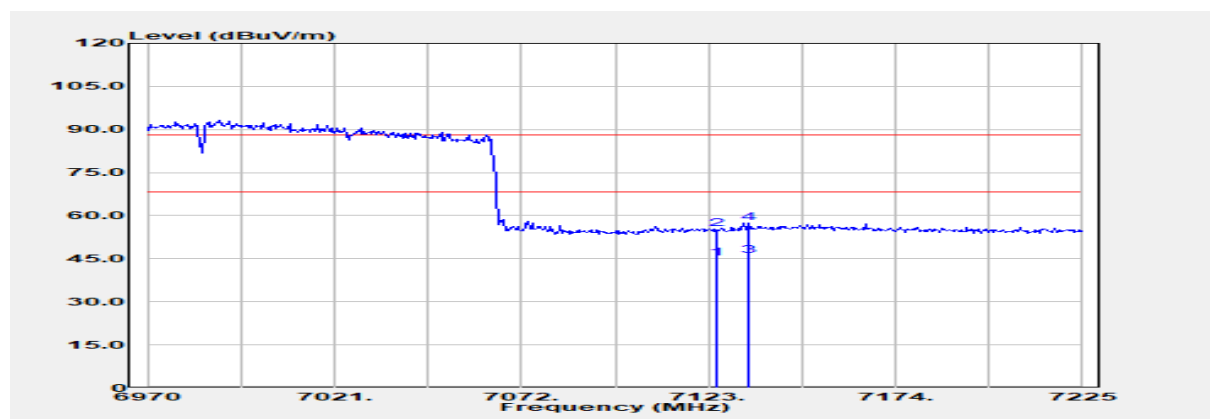
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6985 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Vertical
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	27.67	17.58	45.25	68.20	-22.95
7125.000	Peak	37.62	17.58	55.20	88.20	-33.00
7133.870	Average	27.96	17.93	45.89	68.20	-22.31
7133.870	Peak	39.53	17.93	57.46	88.20	-30.74

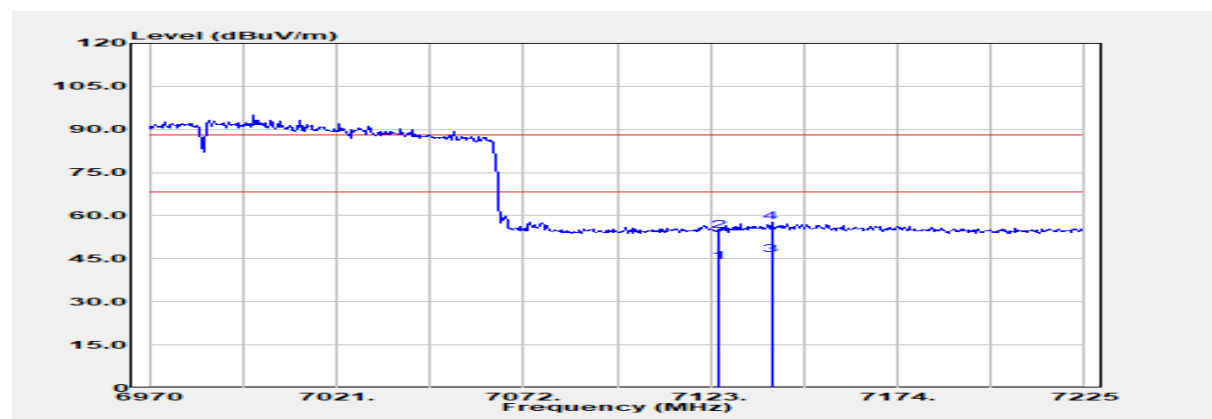
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6985 MHz
Test Mode :BE CH HIGH FULL RU
EUT Pol :NB Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-15
Temp./Humi. :21.1/68
Antenna Pol. :Horizontal
Engineer :Andy Wang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	26.40	17.58	43.98	68.20	-24.22
7125.000	Peak	37.09	17.58	54.68	88.20	-33.52
7139.591	Average	28.09	18.15	46.24	68.20	-21.96
7139.591	Peak	39.49	18.15	57.64	88.20	-30.56

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TB

Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-14

Test Frequency :5955 MHz

Temp./Humi. :21.8/70

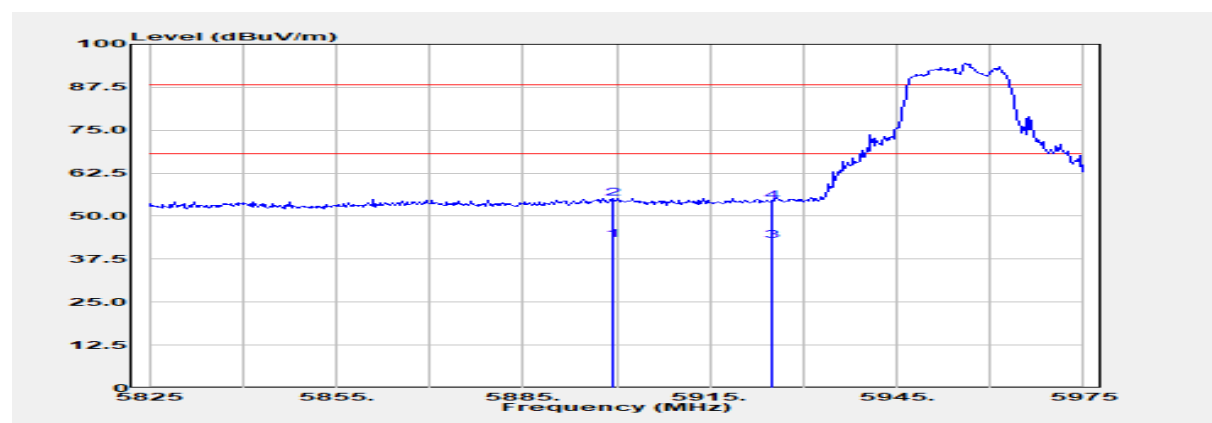
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5899.279	Average	30.11	12.93	43.04	68.20	-25.16
5899.279	Peak	42.30	12.93	55.23	88.20	-32.97
5925.000	Average	29.93	12.98	42.91	68.20	-25.29
5925.000	Peak	41.32	12.98	54.30	88.20	-33.90

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-14

Test Frequency :5955 MHz

Temp./Humi. :21.8/70

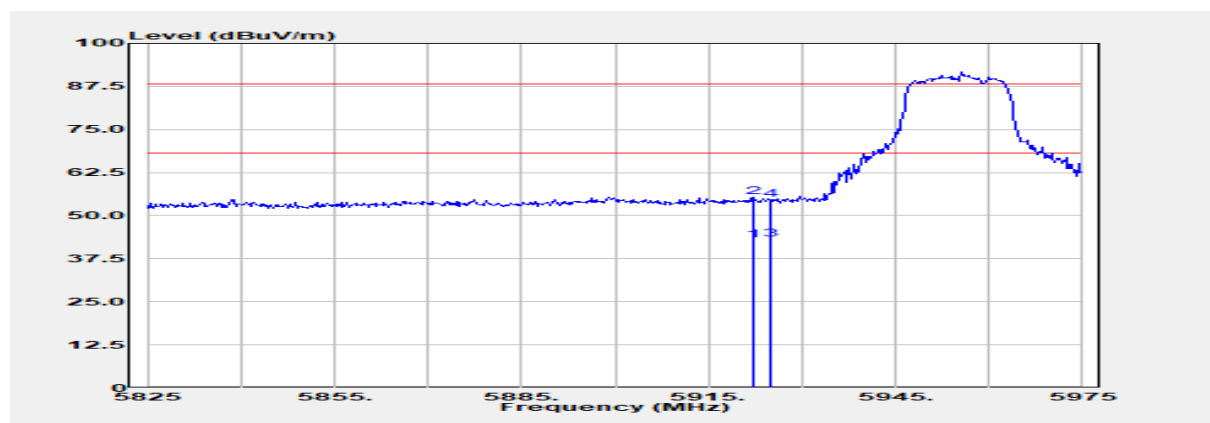
Test Mode :BE CH LOW

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5922.115	Average	30.00	12.86	42.86	68.20	-25.34
5922.115	Peak	42.52	12.86	55.38	88.20	-32.82
5925.000	Average	30.15	12.98	43.13	68.20	-25.07
5925.000	Peak	41.64	12.98	54.62	88.20	-33.58

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-14

Test Frequency :7115 MHz

Temp./Humi. :21.8/70

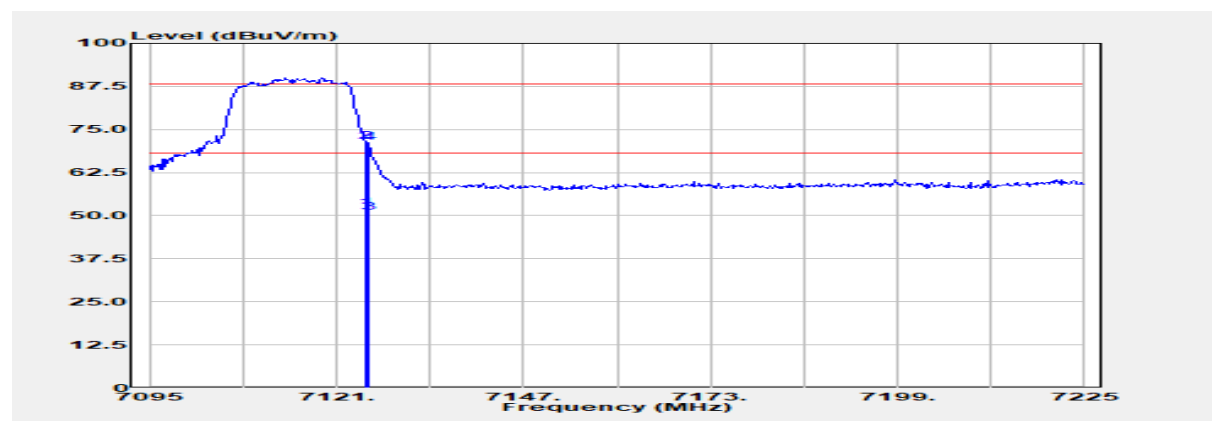
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	35.61	16.42	52.03	68.20	-16.17
7125.000	Peak	54.94	16.42	71.36	88.20	-16.84
7125.417	Average	34.41	16.44	50.85	68.20	-17.35
7125.417	Peak	54.80	16.44	71.24	88.20	-16.96

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11a

Test Date :2022-04-14

Test Frequency :7115 MHz

Temp./Humi. :21.8/70

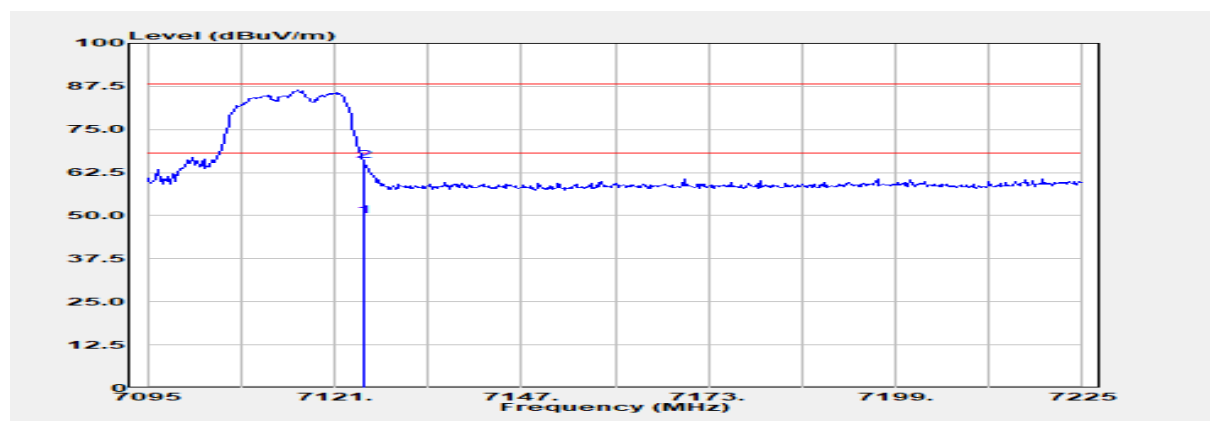
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	33.42	16.42	49.84	68.20	-18.36
7125.000	Peak	49.47	16.42	65.89	88.20	-22.31

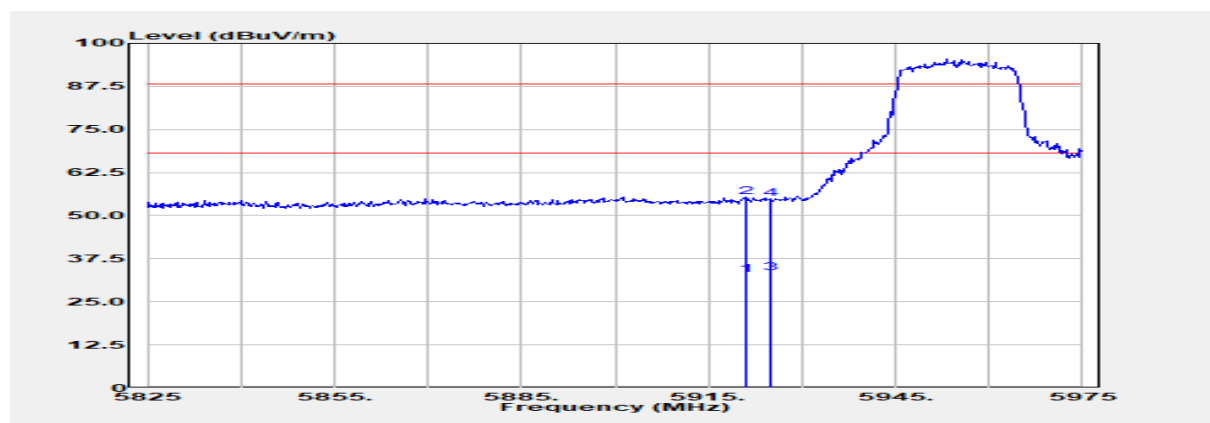
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5920.914	Average	20.10	12.82	32.92	68.20	-35.28
5920.914	Peak	42.58	12.82	55.40	88.20	-32.80
5925.000	Average	20.34	12.98	33.32	68.20	-34.88
5925.000	Peak	41.99	12.98	54.98	88.20	-33.22

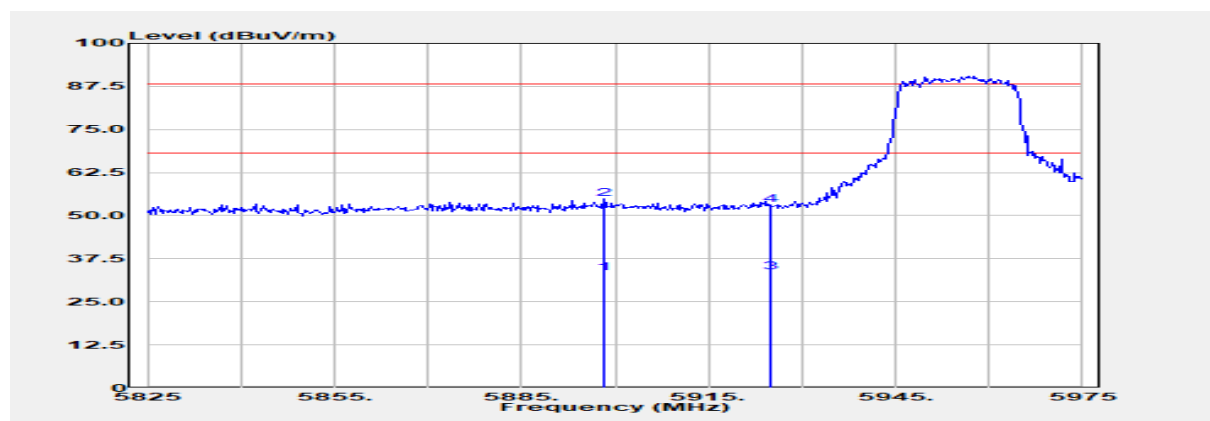
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5898.317	Average	20.38	12.85	33.23	68.20	-34.97
5898.317	Peak	42.05	12.85	54.90	88.20	-33.30
5925.000	Average	20.52	12.98	33.50	68.20	-34.70
5925.000	Peak	40.21	12.98	53.19	88.20	-35.01

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-14

Test Frequency :5955 MHz 26/0

Temp./Humi. :21.8/70

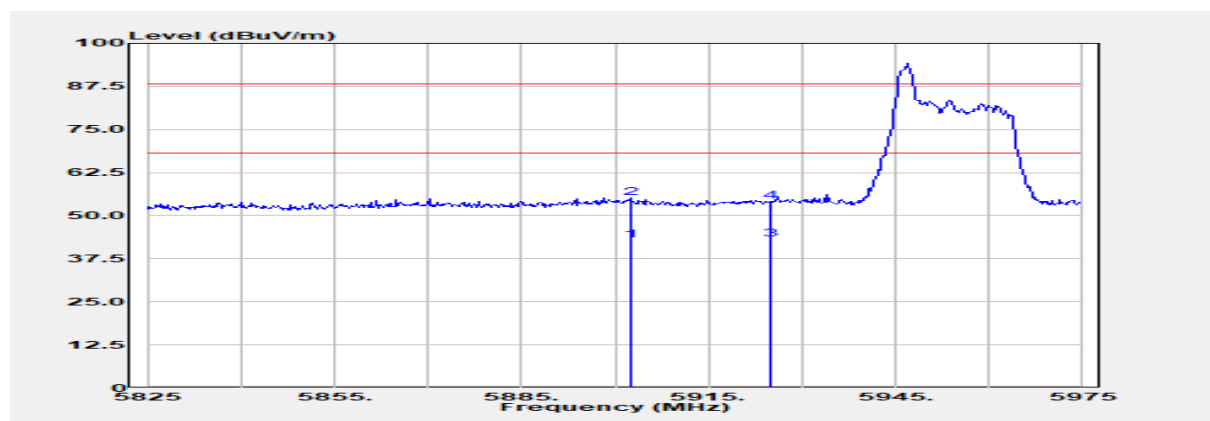
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5902.404	Average	30.02	12.79	42.81	68.20	-25.39
5902.404	Peak	42.25	12.79	55.04	88.20	-33.16
5925.000	Average	30.02	12.98	43.00	68.20	-25.20
5925.000	Peak	41.06	12.98	54.04	88.20	-34.16

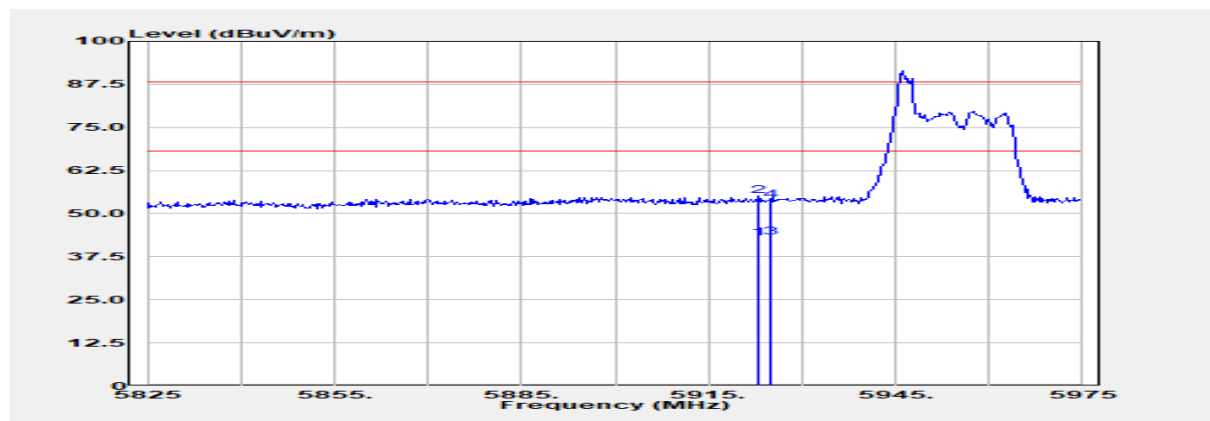
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz 26/0
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5923.077	Average	29.95	12.90	42.85	68.20	-25.35
5923.077	Peak	42.35	12.90	55.25	88.20	-32.95
5925.000	Average	30.06	12.98	43.04	68.20	-25.16
5925.000	Peak	40.92	12.98	53.90	88.20	-34.30

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-14

Test Frequency :5955 MHz 106/53

Temp./Humi. :21.8/70

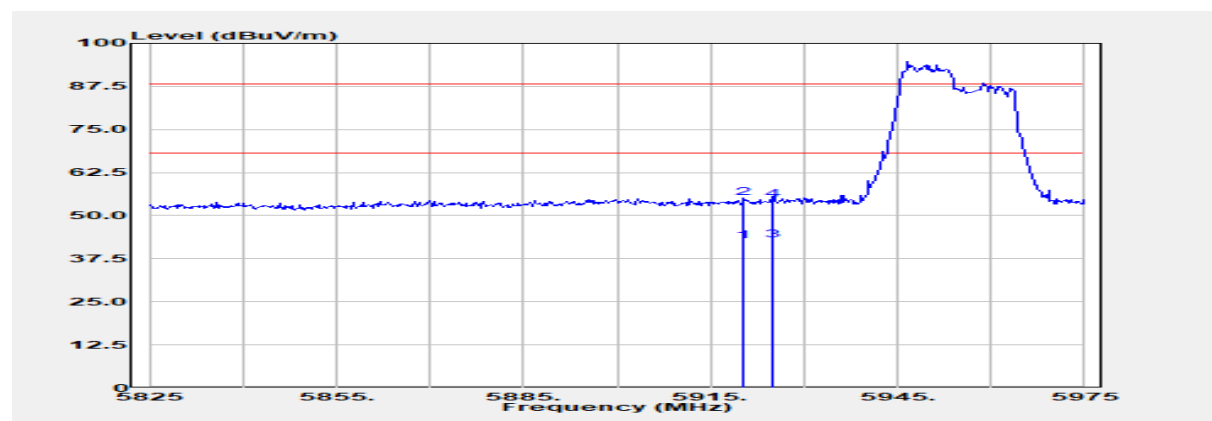
Test Mode :BE CH LOW

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5920.433	Average	29.91	12.80	42.71	68.20	-25.49
5920.433	Peak	42.30	12.80	55.10	88.20	-33.10
5925.000	Average	30.00	12.98	42.98	68.20	-25.22
5925.000	Peak	41.54	12.98	54.52	88.20	-33.68

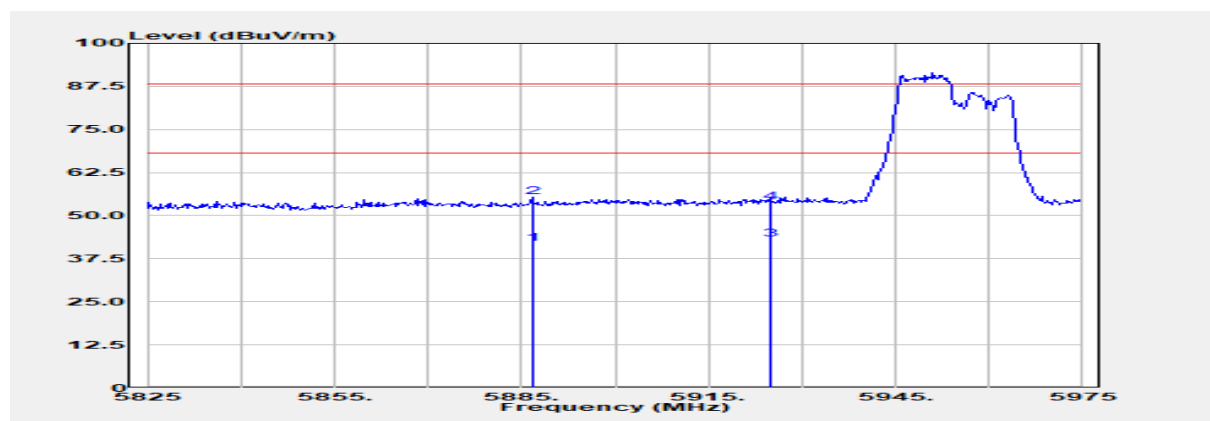
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :5955 MHz 106/53
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5886.779	Average	29.81	12.07	41.88	68.20	-26.32
5886.779	Peak	43.23	12.07	55.30	88.20	-32.90
5925.000	Average	30.11	12.98	43.09	68.20	-25.11
5925.000	Peak	40.84	12.98	53.83	88.20	-34.37

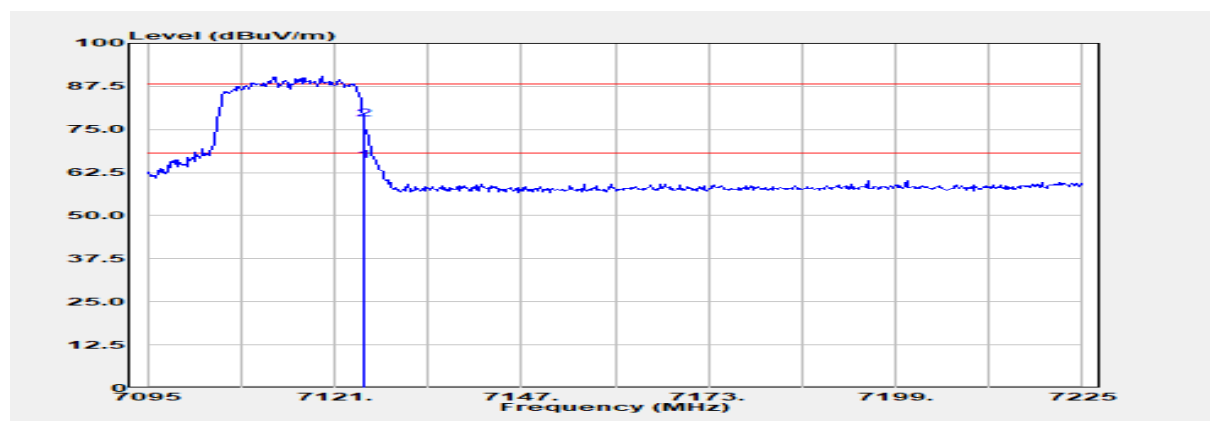
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	49.59	16.42	66.01	68.20	-2.19
7125.000	Peak	61.63	16.42	78.05	88.20	-10.15

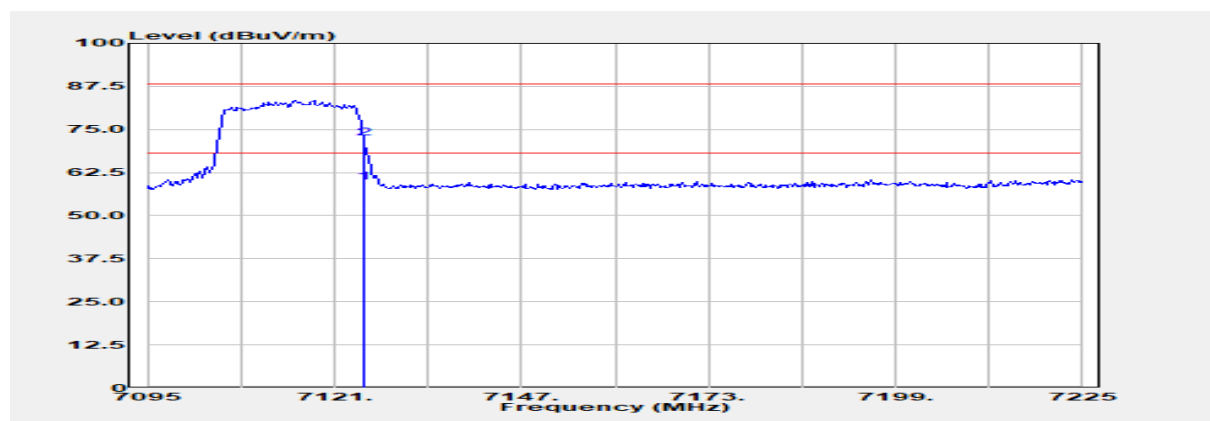
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	43.31	16.42	59.73	68.20	-8.47
7125.000	Peak	56.09	16.42	72.51	88.20	-15.69

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-14

Test Frequency :7115 MHz 26/8

Temp./Humi. :21.8/70

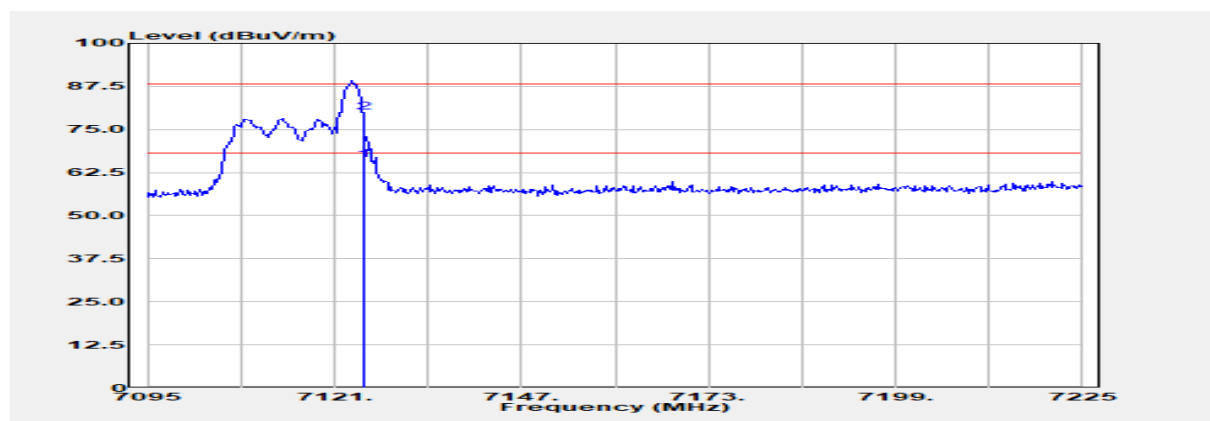
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Average	49.77	16.42	66.19	68.20	-2.01
7125.000	Peak	63.53	16.42	79.95	88.20	-8.25

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-14

Test Frequency :7115 MHz 26/8

Temp./Humi. :21.8/70

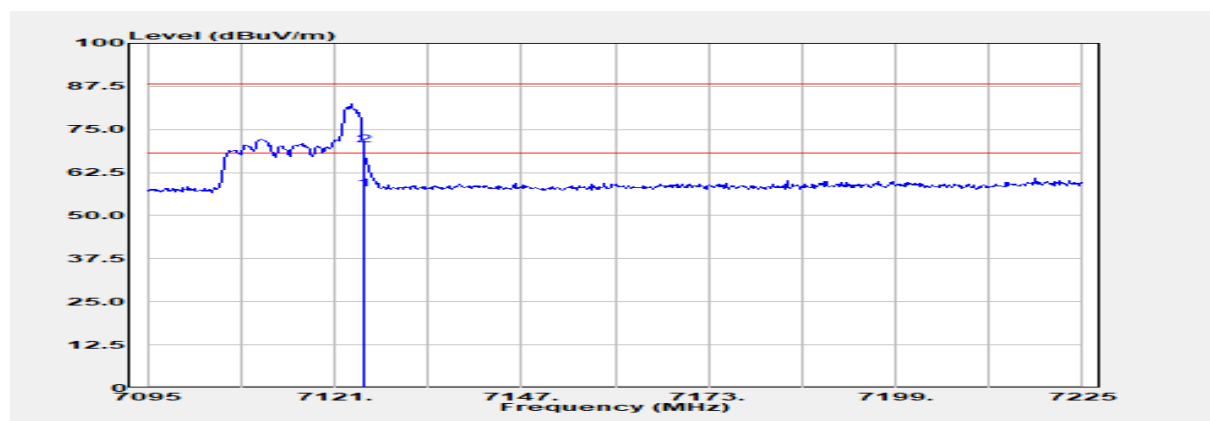
Test Mode :BE CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
7125.000	Average	41.29	16.42	57.71	68.20	-10.49
7125.000	Peak	54.04	16.42	70.46	88.20	-17.74

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Report Number :TERF2204000208E2

Test Site :SAC C

Operation Mode :802.11ax20

Test Date :2022-04-14

Test Frequency :7115 MHz 52/40

Temp./Humi. :21.8/70

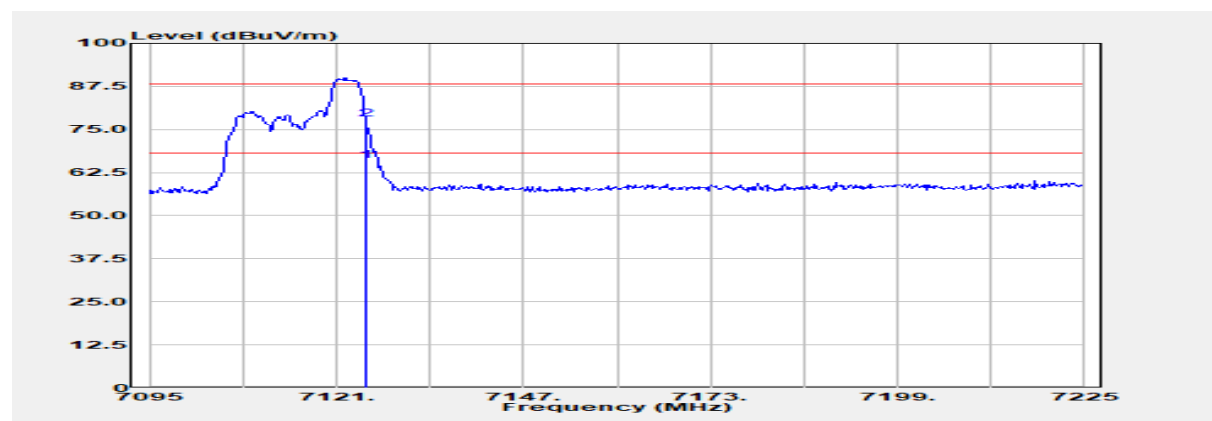
Test Mode :BE CH HIGH

Antenna Pol. :Vertical

EUT Pol :E1 Plane

Engineer :Temo Chen

Ant :MIMO



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	49.62	16.42	66.04	68.20	-2.16
7125.000	Peak	61.58	16.42	78.00	88.20	-10.20

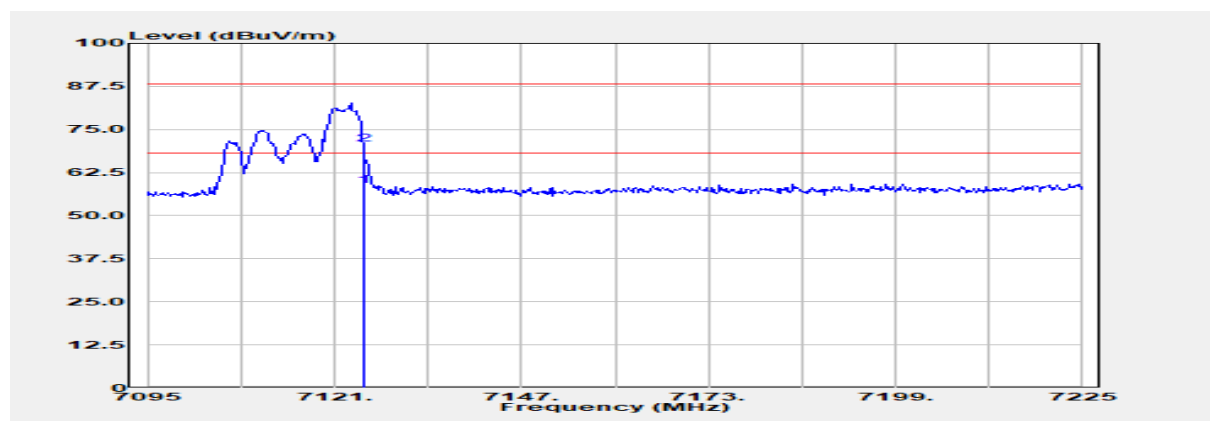
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz 52/40
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
7125.000	Average	42.18	16.42	58.60	68.20	-9.60
7125.000	Peak	54.22	16.42	70.64	88.20	-17.56

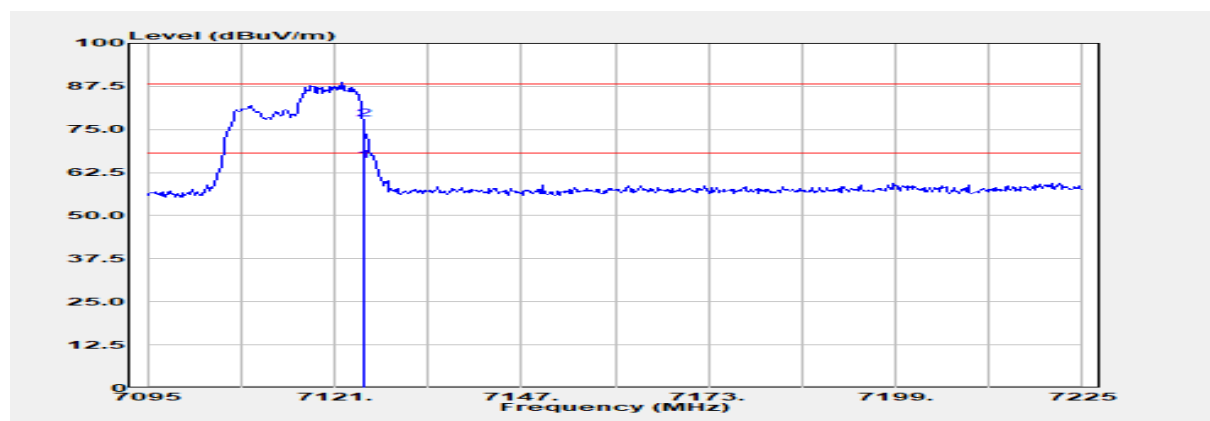
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz 106/54
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	49.39	16.42	65.81	68.20	-2.39
7125.000	Peak	61.49	16.42	77.91	88.20	-10.29

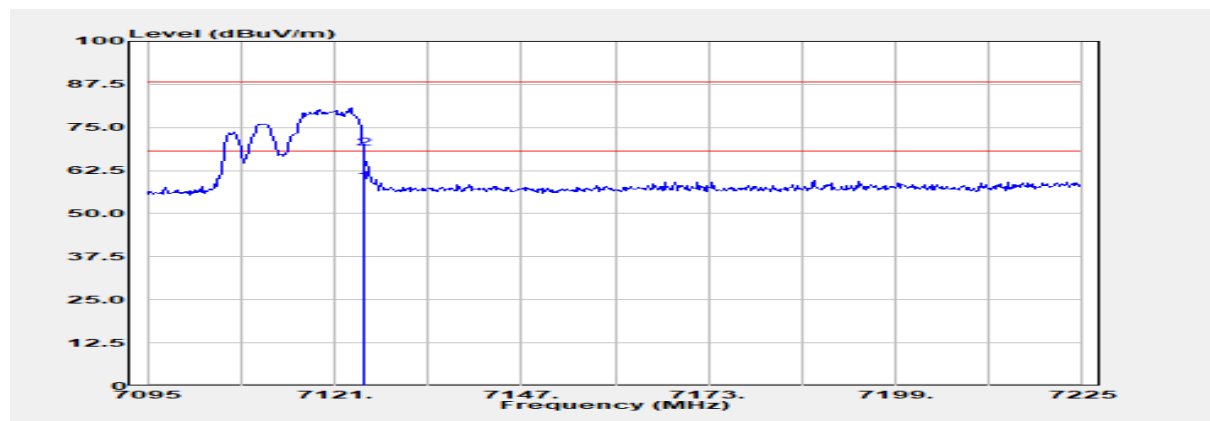
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Report Number :TERF2204000208E2
Operation Mode :802.11ax20
Test Frequency :7115 MHz 106/54
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
7125.000	Average	42.75	16.42	59.17	68.20	-9.03
7125.000	Peak	52.39	16.42	68.80	88.20	-19.40

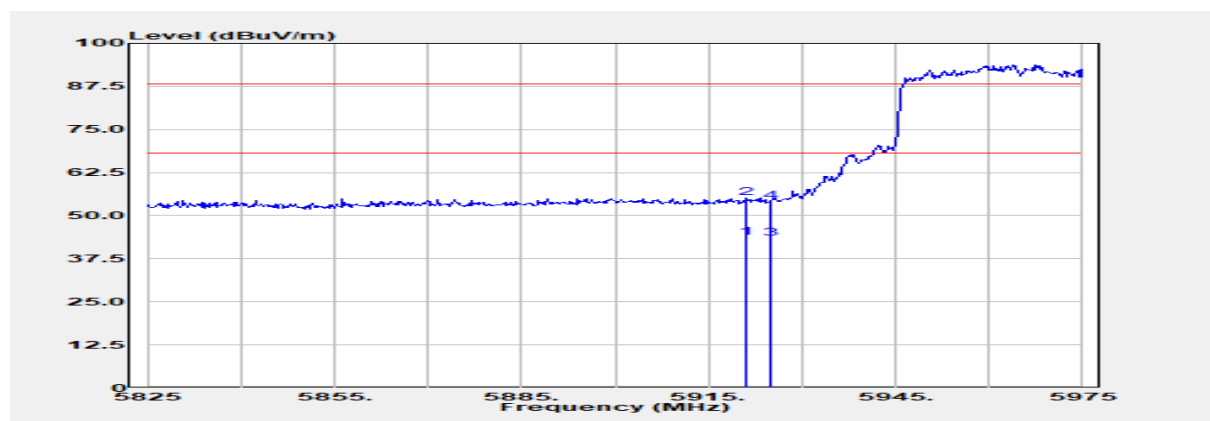
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :5965 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5920.914	Average	30.67	12.82	43.49	68.20	-24.71
5920.914	Peak	42.36	12.82	55.17	88.20	-33.03
5925.000	Average	30.44	12.98	43.42	68.20	-24.78
5925.000	Peak	41.13	12.98	54.11	88.20	-34.09

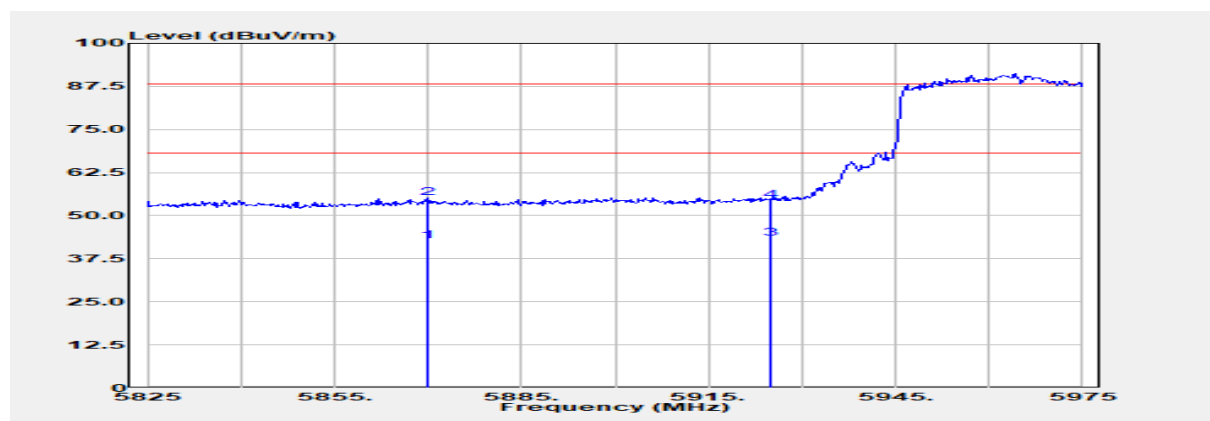
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :5965 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5869.952	Average	30.41	12.32	42.73	68.20	-25.47
5869.952	Peak	42.93	12.32	55.25	88.20	-32.95
5925.000	Average	30.43	12.98	43.41	68.20	-24.79
5925.000	Peak	41.48	12.98	54.46	88.20	-33.74

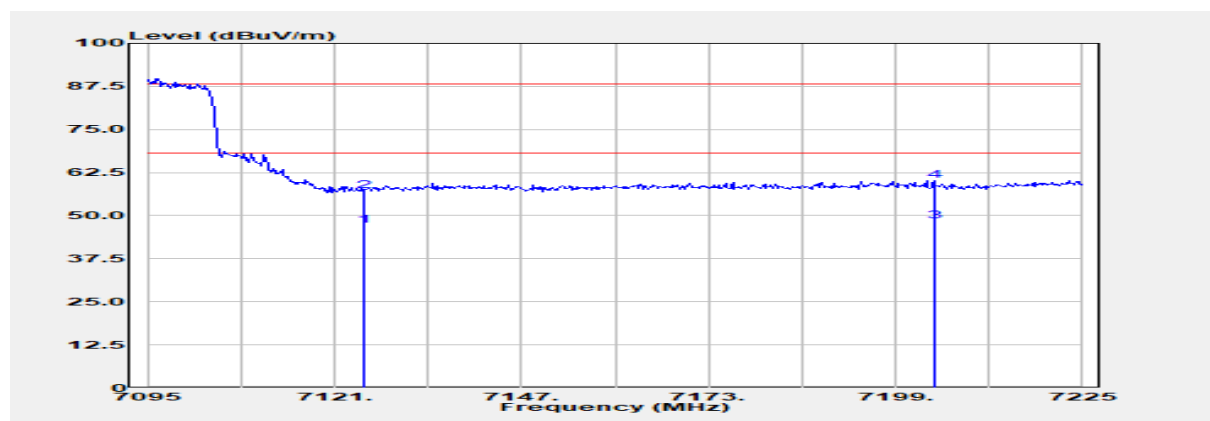
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :7085 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Average	30.66	16.42	47.08	68.20	-21.12
7125.000	Peak	40.79	16.42	57.21	88.20	-30.99
7204.375	Average	31.05	17.38	48.43	68.20	-19.77
7204.375	Peak	42.83	17.38	60.21	88.20	-27.99

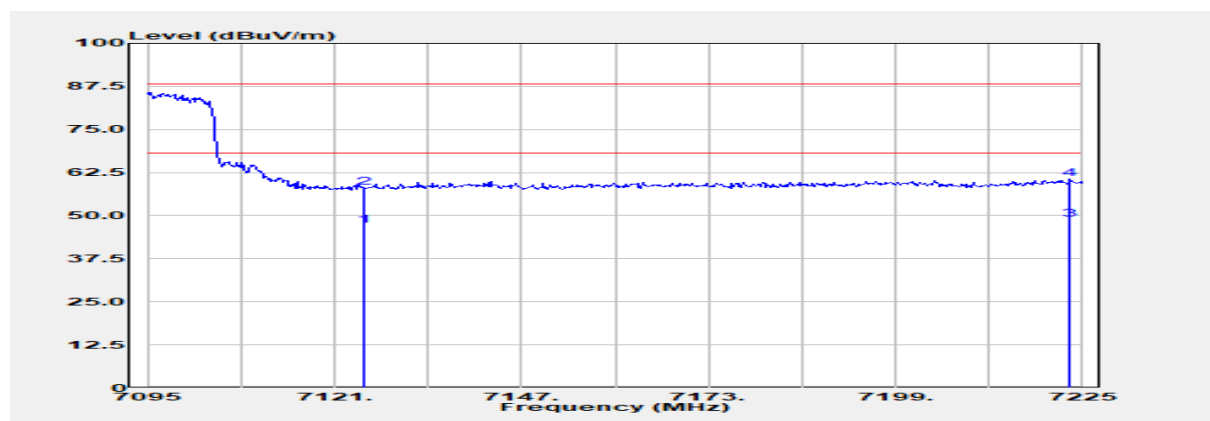
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Report Number :TERF2204000208E2
Operation Mode :802.11ax40
Test Frequency :7085 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Average	30.73	16.42	47.15	68.20	-21.05
7125.000	Peak	41.74	16.42	58.16	88.20	-30.04
7223.333	Average	30.78	18.13	48.91	68.20	-19.29
7223.333	Peak	42.41	18.13	60.54	88.20	-27.66

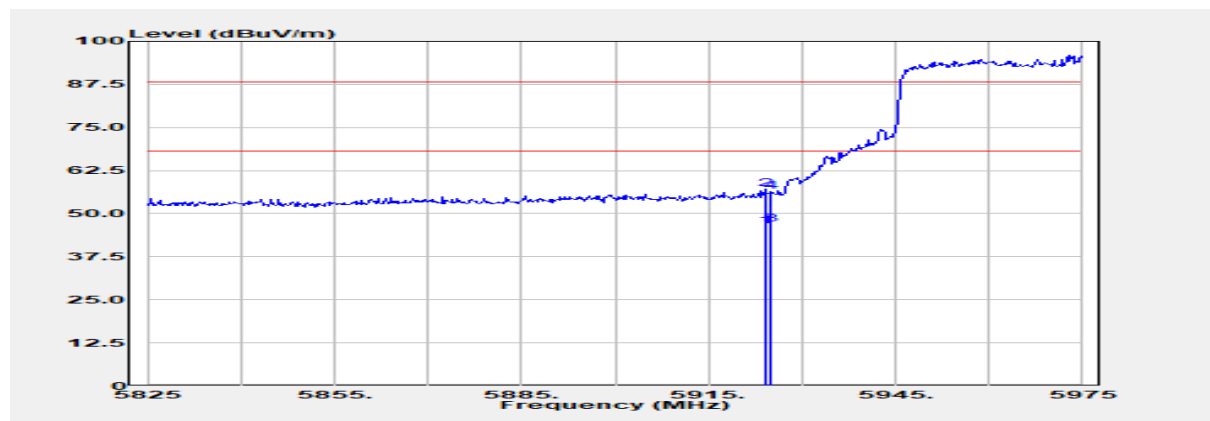
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :5985 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5924.039	Average	33.53	12.94	46.47	68.20	-21.73
5924.039	Peak	44.21	12.94	57.15	88.20	-31.05
5925.000	Average	33.98	12.98	46.96	68.20	-21.24
5925.000	Peak	43.36	12.98	56.34	88.20	-31.86

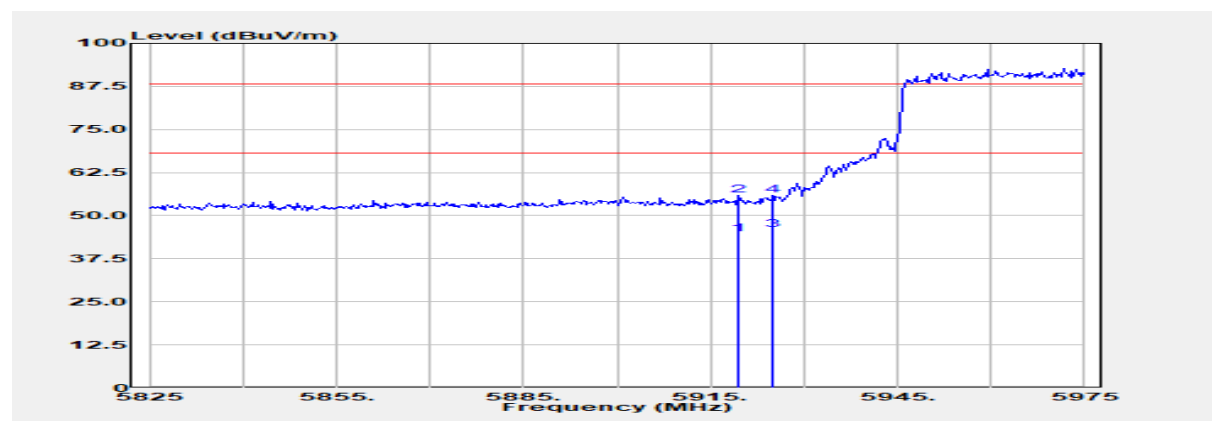
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :5985 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5919.471	Average	31.94	12.75	44.68	68.20	-23.52
5919.471	Peak	43.18	12.75	55.93	88.20	-32.27
5925.000	Average	32.92	12.98	45.90	68.20	-22.30
5925.000	Peak	42.88	12.98	55.87	88.20	-32.33

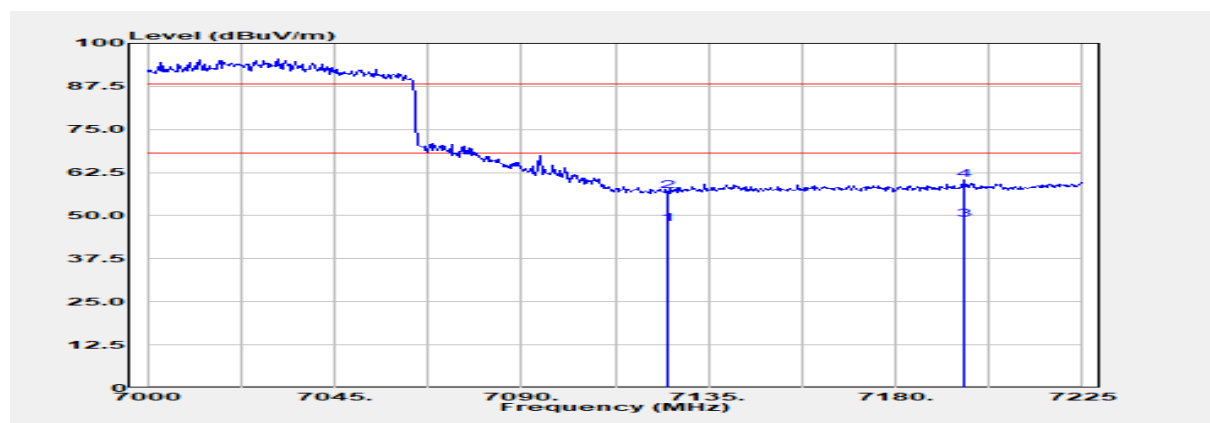
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :7025 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
7125.000	Average	31.25	16.42	47.67	68.20	-20.53
7125.000	Peak	40.79	16.42	57.21	88.20	-30.99
7196.515	Average	31.27	17.51	48.78	68.20	-19.42
7196.515	Peak	42.77	17.51	60.28	88.20	-27.92

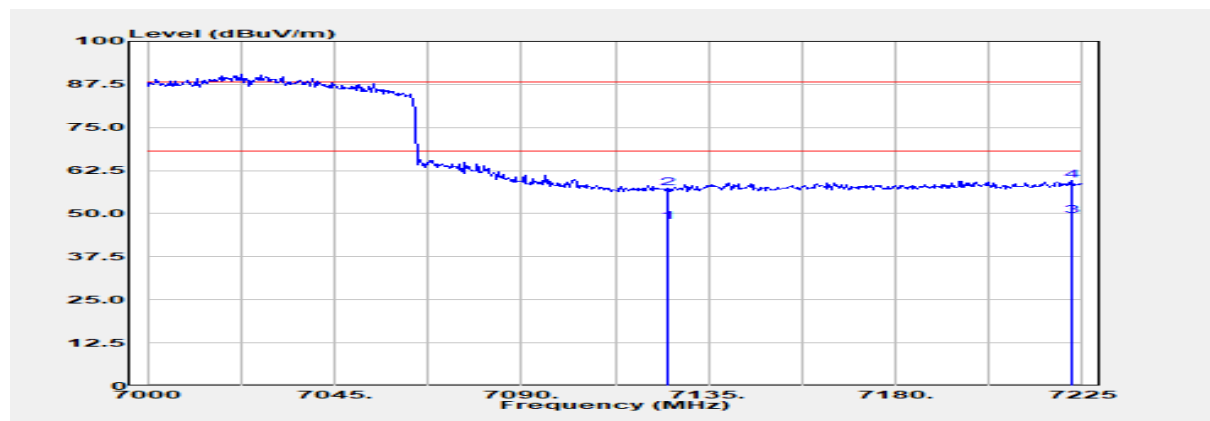
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Report Number :TERF2204000208E2
Operation Mode :802.11ax80
Test Frequency :7025 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level d μ V	Factor dB	Actual FS d μ V/m	Limit @3m d μ V/m	Margin dB
7125.000	Average	31.09	16.42	47.51	68.20	-20.69
7125.000	Peak	40.94	16.42	57.36	88.20	-30.84
7222.476	Average	31.32	18.13	49.45	68.20	-18.75
7222.476	Peak	41.44	18.13	59.57	88.20	-28.63

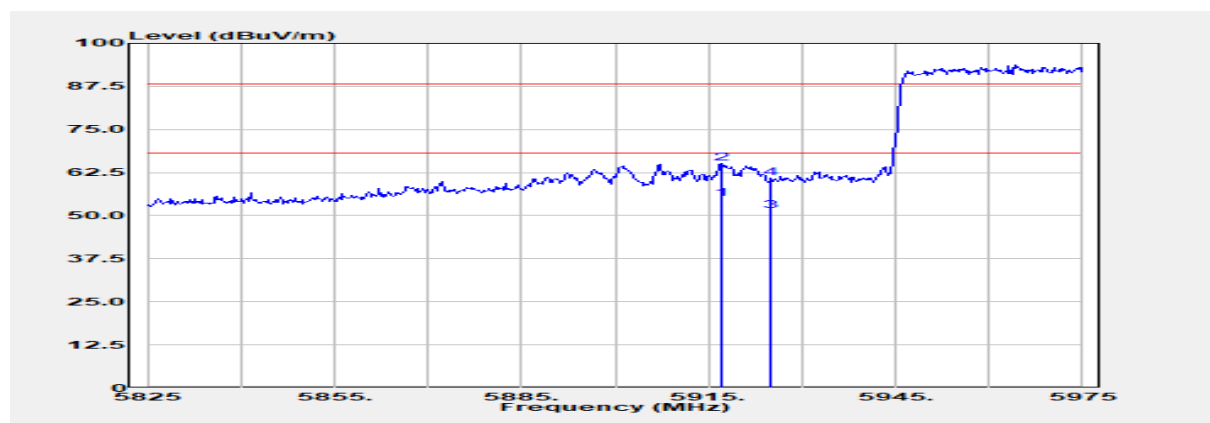
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6025 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
5917.067	Average	42.18	12.61	54.79	68.20	-13.41
5917.067	Peak	52.62	12.61	65.22	88.20	-22.98
5925.000	Average	38.44	12.98	51.42	68.20	-16.78
5925.000	Peak	48.01	12.98	60.99	88.20	-27.21

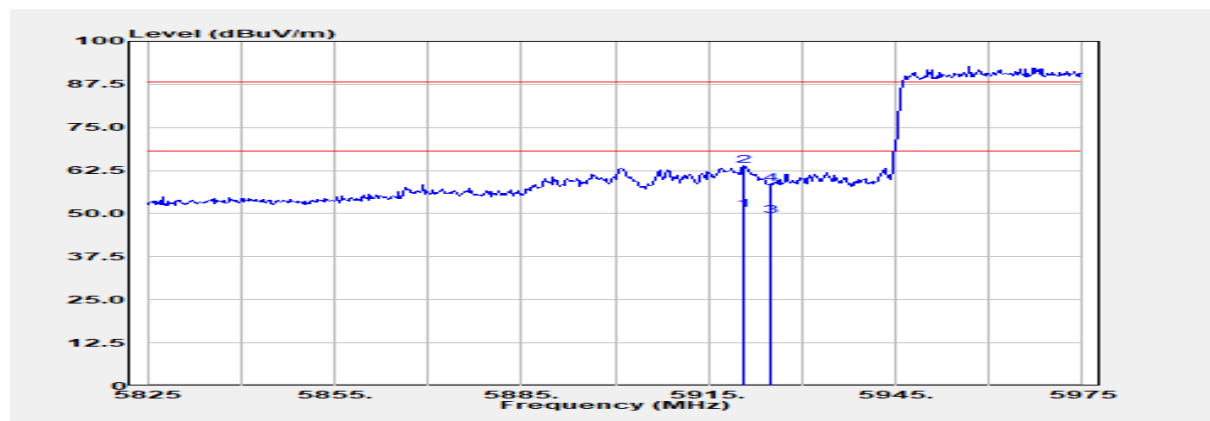
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6025 MHz Full Ru
Test Mode :BE CH LOW
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
5920.673	Average	38.33	12.81	51.14	68.20	-17.06
5920.673	Peak	51.09	12.81	63.90	88.20	-24.30
5925.000	Average	36.40	12.98	49.38	68.20	-18.82
5925.000	Peak	45.70	12.98	58.68	88.20	-29.52

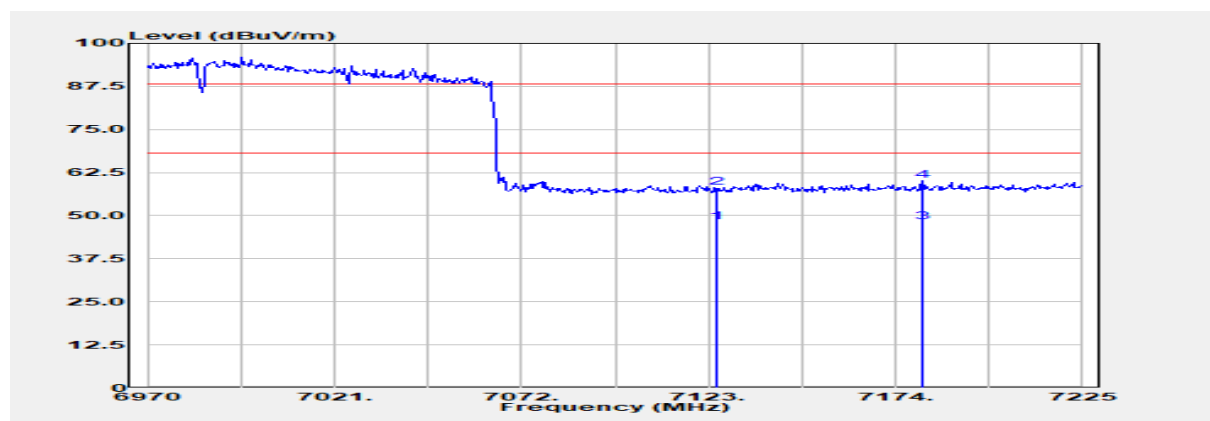
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6985 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Vertical
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Average	31.66	16.42	48.08	68.20	-20.12
7125.000	Peak	41.68	16.42	58.09	88.20	-30.11
7181.274	Average	31.12	16.94	48.06	68.20	-20.14
7181.274	Peak	43.19	16.94	60.13	88.20	-28.07

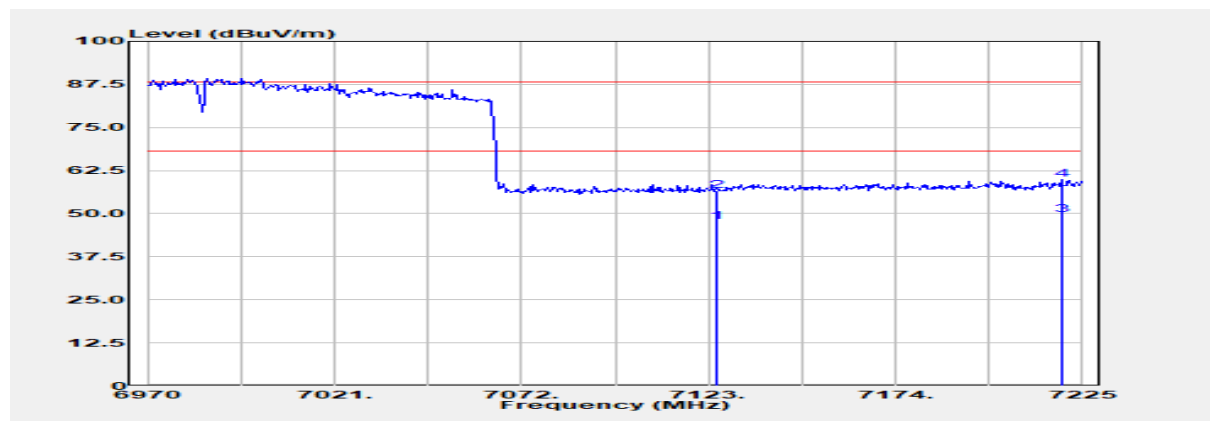
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Report Number :TERF2204000208E2
Operation Mode :802.11ax160
Test Frequency :6985 MHz Full Ru
Test Mode :BE CH HIGH
EUT Pol :E1 Plane
Ant :MIMO

Test Site :SAC C
Test Date :2022-04-14
Temp./Humi. :21.8/70
Antenna Pol. :Horizontal
Engineer :Temo Chen



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
7125.000	Average	31.13	16.42	47.55	68.20	-20.65
7125.000	Peak	40.28	16.42	56.70	88.20	-31.50
7219.279	Average	31.66	18.02	49.68	68.20	-18.52
7219.279	Peak	41.87	18.02	59.89	88.20	-28.31

~ End of Report ~

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