

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



Applicant: Peloton Interactive Inc.
125 W 25th Street, 11 FL, New York, NY, 10001, USA
Product Name: Peloton Console
Brand Name: Peloton
Model No.: PLTN-RB1VQ-2
Model Difference: N/A
Report Number: E2/2021/70055
FCC ID 2AA3N-RB1VQ2
IC: 21377-RB1VQ2
Issue Date: August 27, 2021
Date of Test: July 26, 2021 ~ August 20, 2021
Date of EUT Received: July 13, 2021

Approved By

Jay Lin

We hereby certify that:

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

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

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Revision History

Report Number	Revision	Description	Issue Date	Revised By
E2/2021/70055	00	Original	August 27, 2021	Yuri Tsai

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1 GENERAL INFORMATION

1.1 Product Description

Product Name:	Peloton Console
Brand Name:	Peloton
Model No.:	PLTN-RB1VQ-2
Model Difference:	N/A
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	Conducted: QAPLBK2104190030, Radiated: QAPLBK2104190019
Power Supply:	12Vdc from power cord

1.2 Modulation & Data Rate

Modulation type:	64QAM, 16QAM, QPSK, BPSK for OFDM
	256QAM for OFDM in 802.11ac only
Transition Rate:	802.11 a: 6.5 - 54 Mbps
	802.11 n_20MHz: 6.5 - 144.4 Mbps
	802.11 n_40MHz: 13.5 - 300 Mbps
	802.11 ac_20MHz: 6.5 - 173.4 Mbps
	802.11 ac_40MHz: 13.5 - 400 Mbps
	802.11 ac_80MHz: 29.3 - 866.6 Mbps

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1.3 Antenna Designation

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Gain (dBi)
PIFA	ACON	APP8P-100003	5150~5250	1.97	4.30
			5250~5350	1.25	3.61
			5470~5725	1.31	3.37
			5725~5850	1.82	4.57
PIFA	ACON	APP8P-100004	5150~5250	0.56	4.30
			5250~5350	-0.10	3.61
			5470~5725	-0.70	3.37
			5725~5850	1.30	4.57

Note:

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

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1.4 FCC

Wi-Fi	Frequency Range	Channels	Rated Power(Avg) (dBm) (Worst Case)	Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	16.43 dBm	OFDM
	5260~5320	4	16.36 dBm	OFDM
	5500~5720	12	16.38 dBm	OFDM
	5745-5825	5	16.38 dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	15.25 dBm	OFDM
	5270~5310	2	15.46 dBm	OFDM
	5510~5710	6	15.40 dBm	OFDM
	5755-5795	2	15.43 dBm	OFDM
ac_VHT 80M	5210	1	13.42 dBm	OFDM
	5290	1	13.12 dBm	OFDM
	5530~5690	3	13.14 dBm	OFDM
	5775	1	13.27 dBm	OFDM

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1.5 ISED

Wi-Fi	Frequency Range	Channels	EIRP/Avg	Rated Power(EIRP/Avg) (dBm) (Worst Case)		Modulation Technology
a n_HT ac_VHT 20M	5180~5240	4	EIRP	20.73	dBm	OFDM
	5260~5320	4	Avg	16.36	dBm	OFDM
	5500~5700	11	Avg	16.38	dBm	OFDM
	5720 (U-NII 2C)	1	Avg	14.92	dBm	OFDM
	5720 (U-NII 3)	1	Avg	10.46	dBm	OFDM
	5745-5825	5	Avg	16.38	dBm	OFDM
n_HT ac_VHT 40M	5190~5230	2	EIRP	19.55	dBm	OFDM
	5270~5310	2	Avg	15.46	dBm	OFDM
	5510~5670	5	Avg	15.40	dBm	OFDM
	5710 (U-NII 2C)	1	Avg	14.70	dBm	OFDM
	5710 (U-NII 3)	1	Avg	6.11	dBm	OFDM
	5755-5795	2	Avg	15.43	dBm	OFDM
ac_VHT 80M	5210	1	EIRP	17.72	dBm	OFDM
	5290	1	Avg	13.12	dBm	OFDM
	5530~5610	2	Avg	13.14	dBm	OFDM
	5690 (U-NII 2C)	1	Avg	12.83	dBm	OFDM
	5690 (U-NII 3)	1	Avg	1.51	dBm	OFDM
	5775	1	Avg	13.27	dBm	OFDM

Note: As per guidance in presentation 2018-04-10-03 IC Certification updates of April 2018 TCB workshop, Client (Slave mode) devices without active scanning function, but with the capability of operating in 5600-5650 MHz solely under the control of a certified master device meeting the requirement of RSS-247, are allowed in Canada.

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1.6 Test Methodology of Applied Standards

FCC Part 15, Subpart E §15.407

FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

RSS-247 issue 2 Feb. 2017

RSS-Gen Issue 5 Feb. 2021

ANSI C63.10:2013

1.7 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
Note: Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

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1.8 Special Accessories

There are no special accessories used while test was conducted.

1.9 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted 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.

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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*9m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

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

2.4.2 For all conducted test items:

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

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2.5 Test Configuration

Fig. 2-1 Conducted (Antenna Port) Emission Configuration



Fig 2-2 Radiated Emission

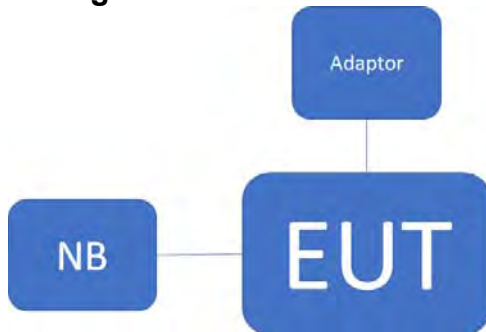


Fig 2-3 Conduction (AC Power Line) Radiated Emission



2.6 Control Unit(s)

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
1	Bluetooth Test Software	N/A	N/A	N/A
2	Notebook	Lenovo	L440	P0000367

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3 SUMMARY OF TEST RESULT

FCC Rules	IC Rules	Description Of Test	Result
§15.207	RSS-Gen §8.8	AC Power Line Conducted Emission	Compliant
§15.407(e)	RSS-Gen §6.7 RSS-247 §6.2.4.1	Emission Bandwidth	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Maximum Conducted Output Power	Compliant
§15.407(a)	RSS-247 §6.2.1~ 4 (1)	Power Spectral Density	Compliant
§15.205 §15.209 §15.407(b)	RSS-247 §6.2.1~ 4 (2)	Undesirable Radiated Emissions	Compliant
§15.407(c)	RSS-247 §6.4	Transmission in case of Absence of Information	Compliant
§15.203 §15.407(a)	N/A	Antenna Requirement	Compliant

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4 DESCRIPTION OF TEST MODES

4.1 Operating Frequencies

Operated band in 5150 MHz ~5250 MHz:

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

Operated band in 5250 MHz ~5350 MHz:

20 M		40 M		80 M		160 M	
CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)	CH	Freq (MHz)
52	5260	54	5270	58	5290	50	5250
56	5280	62	5310				
60	5300						
64	5320						

Operated band in 5470 MHz ~5725 MHz:

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

Operated band in 5745 MHz ~5850 MHz:

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

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4.2 The Worst Test Modes and Channel Details

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

Modulation	Transmission Chain				Single Transmission Spatial	Multiple Transmission Spatial
☒ 802.11 a	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ 1TX	☒ 2TX
☒ 802.11 n	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ MIMO
☒ 802.11 ac	☒ Ch0	☒ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☒ MIMO
☐ 802.11 ax	☐ Ch0	☐ Ch1	☐ Ch2	☐ Ch3	☐ SISO	☐ MIMO

4. 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.

CONDUCTED TEST						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

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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	5180~5240	36 to 48	44	OFDM	6	2TX
	5260~5320	52 to 64	60			
	5500~5720	100 to 144	116			
	5745~5825	149 to 165	157			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106			
	5775	155	155			
RADIATED EMISSION TEST (ABOVE 1 GHz)						
MODE	FREQUENCY BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT
802.11a	5180~5240	36 to 48	36,44,48	OFDM	6	2TX
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT20	5180~5240	36 to 48	36,44,48	OFDM	MCS8	MIMO
	5260~5320	52 to 64	52,60,64			
	5500~5720	100 to 144	100,116,140,144			
	5745~5825	149 to 165	149,157,165			
802.11n_HT40	5190~5230	38 to 46	38,46	OFDM	MCS8	MIMO
	5270~5310	54 to 62	54,62			
	5510~5670	102 to 142	102,110,134,142			
	5755~5795	151 to 159	151,159			
802.11ac_VHT80	5210	42	42	OFDM	MCS0	MIMO
	5290	58	58			
	5530~5610	106 to 138	106,122,138			
	5775	155	155			

Note:

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

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5 MEASUREMENT UNCERTAINTY

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

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

Note:

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

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50
Note 1.The lower limit shall apply at the transition frequencies 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.		

6.2 Measurement Equipment Used

Radiated Emission Test Site: Conduction C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Test Software	audix	e3	Ver. 6.11-20180419c	N.C.R	N.C.R
LISN	SCHWARZ-BECK Mess-Elektronik	NSLK8127	973	03/25/2021	03/24/2022
EMI Test Receiver	R&S	ESCI	101342	04/28/2021	04/27/2022
Coaxial Cable	EC Lab	RF-HY-CAB-250	RF-HY-CAB-250-01	03/27/2021	03/26/2022
Pulse Limiter	EC Lab	VTSD 9561F-N	485	03/27/2021	03/26/2022

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

6.3 EUT Setup

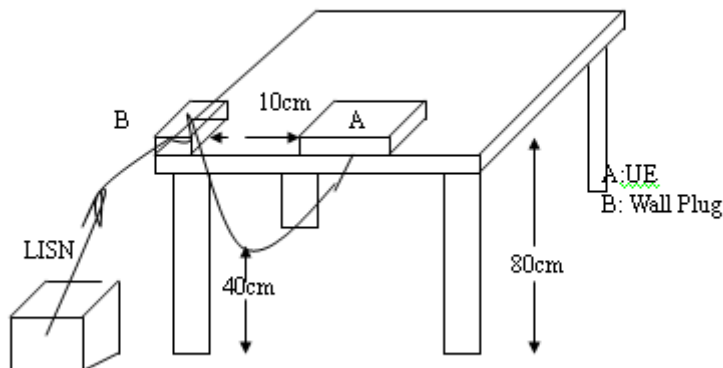
1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The rear of the EUT and peripherals were placed flushed with the rear of the tabletop.
3. The LISN was connected with 120Vac/60Hz power source.

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6.4 Test SET-UP



6.5 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

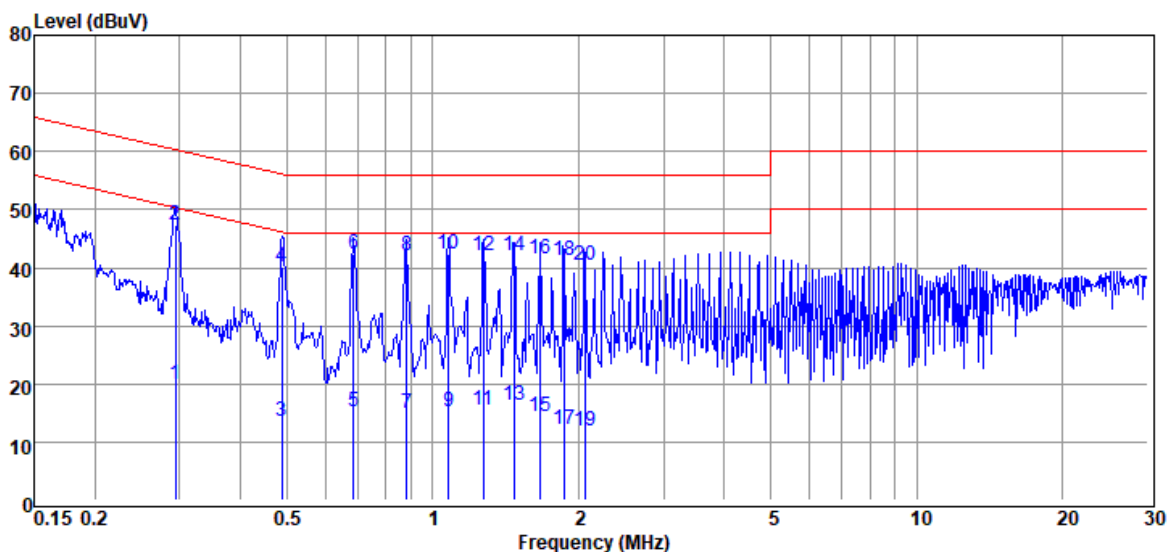
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AC POWER LINE CONDUCTED EMISSION TEST DATA

Report Number :E2/2021/70055 Test Site :Conduction C
Test Mode :WLAN 5G Test Date :2021-08-02
Power :120V/60Hz Temp./Humi. :24.8/57
Probe :L1 Engineer :Ashton Chiu
Note: : Adapter:FSP05-AHCN3



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.29	Average	9.68	10.31	19.99	50.41	-30.42
0.29	QP	36.93	10.31	47.24	60.41	-13.17
0.49	Average	3.29	10.31	13.60	46.22	-32.62
0.49	QP	29.70	10.31	40.01	56.22	-16.21
0.69	Average	4.76	10.33	15.09	46.00	-30.91
0.69	QP	31.94	10.33	42.27	56.00	-13.73
0.88	Average	4.73	10.34	15.07	46.00	-30.93
0.88	QP	31.76	10.34	42.10	56.00	-13.90
1.08	Average	4.83	10.42	15.25	46.00	-30.75
1.08	QP	31.85	10.42	42.27	56.00	-13.73
1.27	Average	4.94	10.63	15.57	46.00	-30.43
1.27	QP	31.45	10.63	42.08	56.00	-13.92
1.47	Average	5.48	10.80	16.28	46.00	-29.72
1.47	QP	31.23	10.80	42.03	56.00	-13.97
1.67	Average	3.55	10.95	14.50	46.00	-31.50

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Report Number :E2/2021/70055

Test Site :Conduction C

Test Mode :WLAN 5G

Test Date :2021-08-02

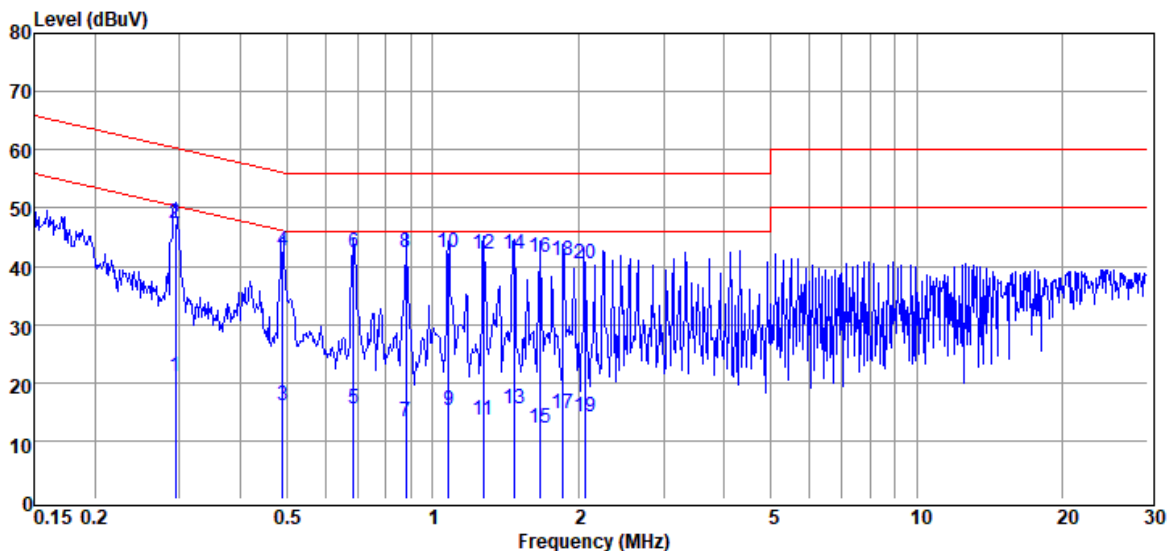
Power :120V/60Hz

Temp./Humi. :24.8/57

Probe :N

Engineer :Ashton Chiu

Note: : Adapter:FSP05-AHCN3



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV	Limit dBμV	Margin dB
0.29	Average	10.80	10.32	21.12	50.41	-29.29
0.29	QP	37.15	10.32	47.47	60.41	-12.94
0.49	Average	5.77	10.32	16.09	46.18	-30.09
0.49	QP	32.27	10.32	42.59	56.18	-13.59
0.69	Average	5.06	10.34	15.40	46.00	-30.60
0.69	QP	32.10	10.34	42.44	56.00	-13.56
0.88	Average	3.02	10.35	13.37	46.00	-32.63
0.88	QP	32.02	10.35	42.37	56.00	-13.63
1.08	Average	4.79	10.43	15.22	46.00	-30.78
1.08	QP	31.92	10.43	42.35	56.00	-13.65
1.27	Average	3.04	10.64	13.68	46.00	-32.32
1.27	QP	31.48	10.64	42.12	56.00	-13.88
1.47	Average	4.78	10.81	15.59	46.00	-30.41
1.47	QP	31.16	10.81	41.97	56.00	-14.03
1.67	Average	1.26	10.96	12.22	46.00	-33.78

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7 DUTY CYCLE TEST SIGNAL

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 Measurement Procedure:

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

Duty Cycle:

Mode	Duty Cycle (%) =Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11a	93.00	0.32	0.72	1.00
802.11n_20	93.00	0.32	0.76	1.00
802.11ac_20	93.00	0.32	0.76	1.00
802.11n_40	87.00	0.60	1.54	2.00
802.11ac_40	87.00	0.60	1.52	2.00
802.11ac_80	77.00	1.14	3.09	4.00

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7.2 DUTY CYCLE TEST SIGNAL MEASUREMENT RESULT

802.11a_20MHz_Chain0_5180MHz



802.11ac_20MHz_Chain0_5180MHz



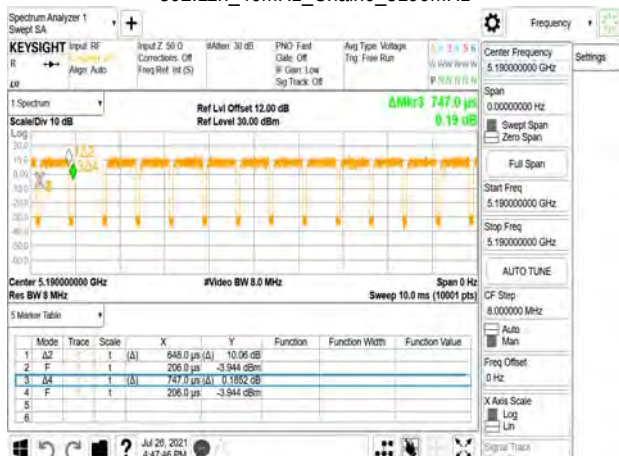
802.11n_20MHz_Chain0_5180MHz



802.11ac_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5190MHz



802.11ac_80MHz_Chain0_5210MHz



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8 EMISSION BANDWIDTH MEASUREMENT

8.1 Standard Applicable

There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.

The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

8.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the Antenna port to the spectrum analyzer.
 - 3.a. 26dB Band width Measurement: Set the spectrum analyzer as 1% of emission BW
Sweep=auto,
Detector = Peak,
Trace Mode = Max Hold,
Manually readjust RBW until the RBW/EBW ratio is 1% based on EBW as observed on the result of pre-sequence measurement.
 - 3.b. Mark the peak frequency and -26dB (upper and lower) frequency.
4. Repeat the procedures as list above until all test default channels (low, middle, and high) are completed.
5. Minimum Emission Bandwidth for the band 5.725-5.850GHz.
 - a. Set the spectrum analyzer as
RBW = 100 kHz,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Peak,
Sweep=auto
 - b. Mark the peak frequency and -6dB (upper and lower) frequency.
6. For 99% Bandwidth: Set the spectrum analyzer as
RBW = 1%,
VBW = 3*RBW,
Span = large enough to capture all products of the modulation process,
Detector=Sample,
Sweep=auto.
7. Turn on the 99% bandwidth function, max reading.
8. Repeat above procedures until all frequency of interest measured was complete.

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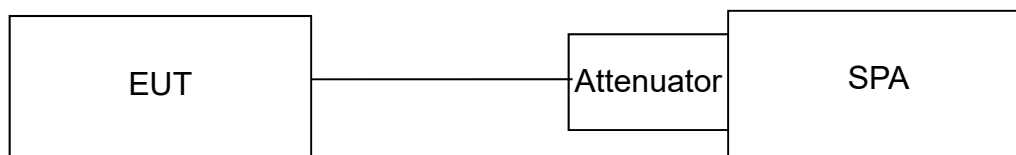
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8.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF158	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF57	11/19/2020	11/18/2021
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A

8.4 Test Set-up



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8.5 Measurement Result

8.5.1 FCC Occupied Bandwidth

802.11a_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.06	13.230
5220	21.30	13.280
5240	21.00	13.220
5260	20.83	13.190
5300	20.76	13.170
5320	20.92	13.210
5500	20.97	13.220
5580	22.98	13.610
5700	20.91	13.200
5720(U-NII 2C)	15.42	11.880
5720(U-NII 3)	5.41	7.340

802.11a_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.18	13.260
5220	25.28	14.030
5240	28.96	14.620
5260	27.26	14.360
5300	21.08	13.240
5320	21.10	13.240
5500	21.14	13.250
5580	20.80	13.180
5700	21.08	13.240
5720(U-NII 2C)	15.65	11.940
5720(U-NII 3)	5.65	7.520

802.11a_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.33	12.130
5785	16.17	12.090
5825	16.27	12.110

802.11a_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	16.32	12.130
5785	16.38	12.140
5825	16.39	12.150

802.11a_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.24	< 5250
5745	5736.68	> 5725

802.11a_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.49	< 5250
5745	5736.63	> 5725

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802.11n_HT20_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.12	13.250
5220	21.16	13.260
5240	21.27	13.280
5260	21.52	13.330
5300	21.56	13.340
5320	21.15	13.250
5500	21.21	13.270
5580	21.36	13.300
5700	21.24	13.270
5720(U-NII 2C)	15.63	11.940
5720(U-NII 3)	5.63	7.510

802.11n_HT20_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5180	21.34	13.290
5220	21.34	13.290
5240	25.94	14.140
5260	21.19	13.260
5300	22.01	13.430
5320	21.15	13.250
5500	28.75	14.590
5580	21.40	13.300
5700	21.22	13.270
5720(U-NII 2C)	15.52	11.910
5720(U-NII 3)	5.52	7.420

802.11n_HT20_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.52	12.440
5785	17.16	12.350
5825	17.54	12.440

802.11n_HT20_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5745	17.62	12.460
5785	17.60	12.460
5825	17.53	12.440

802.11n_HT20_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.78	< 5250
5745	5736.11	> 5725

802.11n_HT20_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5240	5248.84	< 5250
5745	5736.06	> 5725

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802.11n_HT40_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.94	16.010
5230	46.40	16.670
5270	47.86	16.800
5310	39.71	15.990
5510	39.66	15.980
5550	45.23	16.550
5670	39.49	15.960
5710(U-NII 2C)	34.90	15.430
5710(U-NII 3)	4.90	6.900

802.11n_HT40_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5190	39.19	15.930
5230	39.55	15.970
5270	39.40	15.950
5310	39.54	15.970
5510	39.18	15.930
5550	39.25	15.940
5670	39.87	16.010
5710(U-NII 2C)	34.74	15.410
5710(U-NII 3)	4.74	6.760

802.11n_HT40_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.33	15.600
5795	36.32	15.600

802.11n_HT40_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5755	36.37	15.610
5795	36.34	15.600

802.11n_HT40_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.11	< 5250
5755	5736.83	> 5725

802.11n_HT40_Ch1

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5230	5248.09	< 5250
5755	5736.80	> 5725

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802.11ac_VHT80_Ch0

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	81.55	19.110
5290	81.85	19.130
5530	88.18	19.450
5610	81.74	19.120
5690(U-NII 2C)	75.69	18.790
5690(U-NII 3)	5.69	7.550

802.11ac_VHT80_Ch1

Freq. (MHz)	26dB BW (MHz)	10 Log (B) (dB)
5210	80.90	19.080
5290	81.17	19.090
5530	80.74	19.070
5610	81.06	19.090
5690(U-NII 2C)	75.44	18.780
5690(U-NII 3)	5.44	7.360

802.11ac_VHT80_Ch0

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	75.81	18.800

802.11ac_VHT80_Ch1

Freq. (MHz)	6dB BW (MHz)	10 Log (B) (dB)
5775	76.18	18.820

802.11ac_VHT80_Ch0

Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.82	< 5250
5775	5737.17	> 5725

802.11ac_VHT80_Ch1

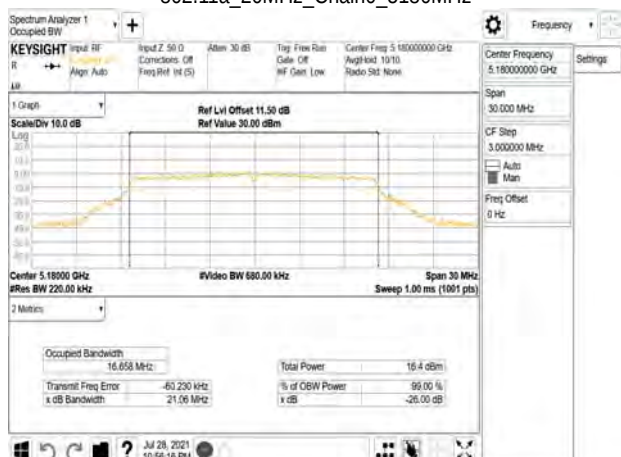
Freq. (MHz)	Measured Freq. (MHz)	Limit (MHz)
5210	5247.84	< 5250
5775	5737.13	> 5725

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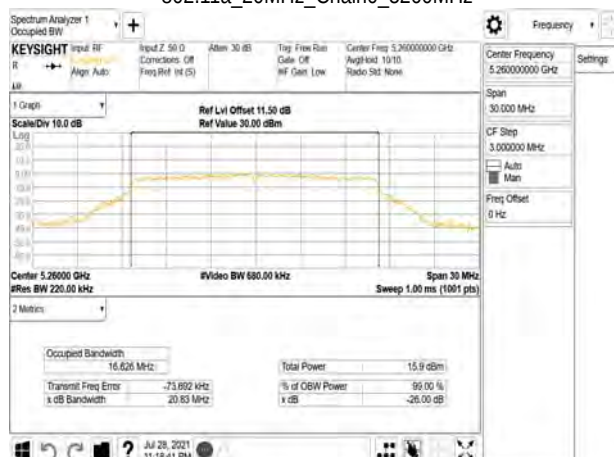
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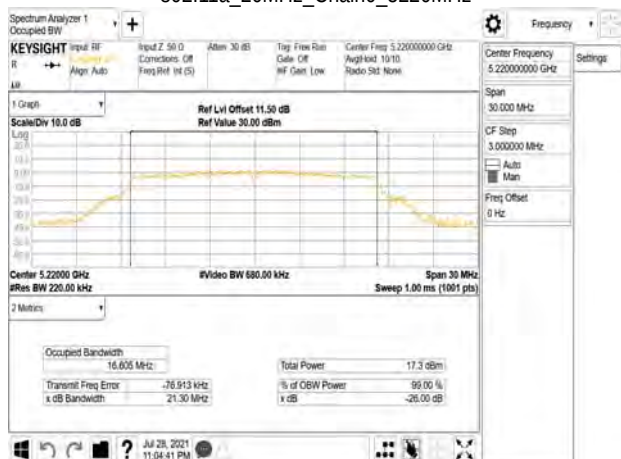
802.11a_20MHz_Chain0_5180MHz



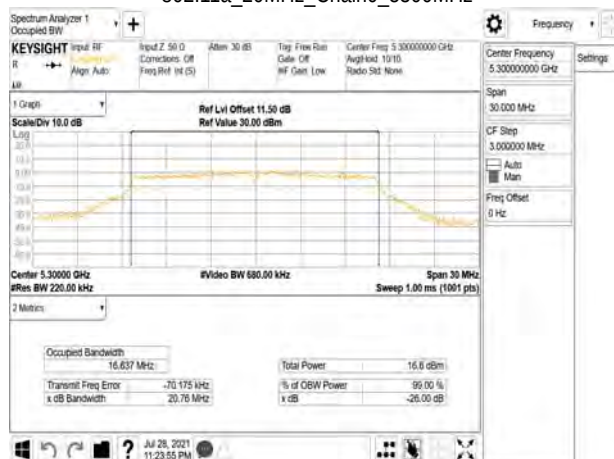
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



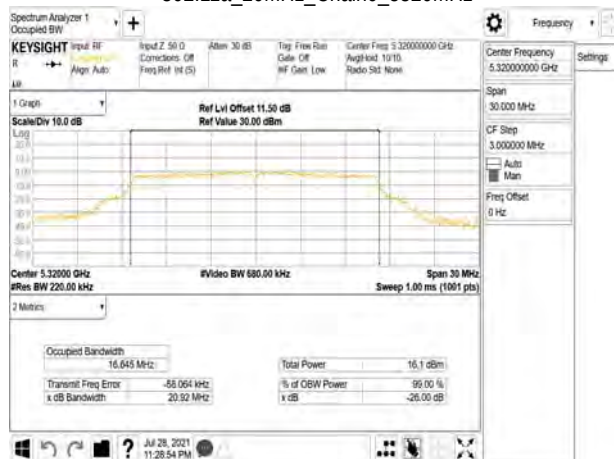
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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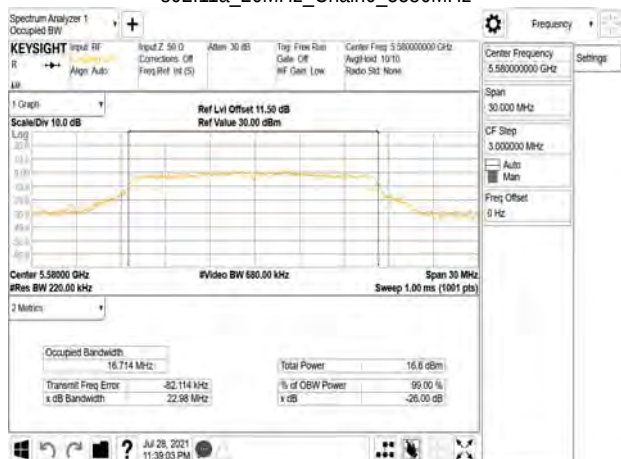
802.11a_20MHz_Chain0_5500MHz



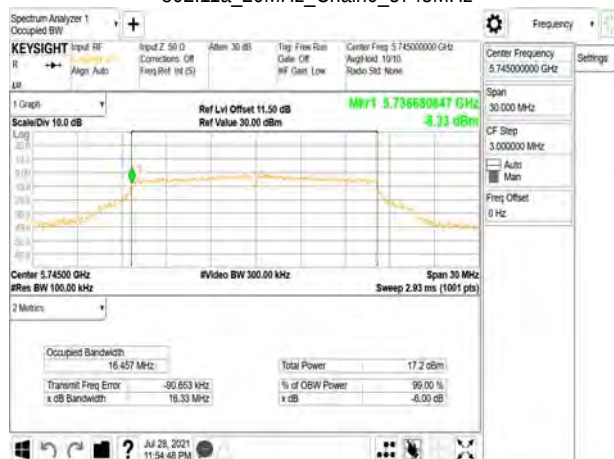
802.11a_20MHz_Chain0_5720MHz



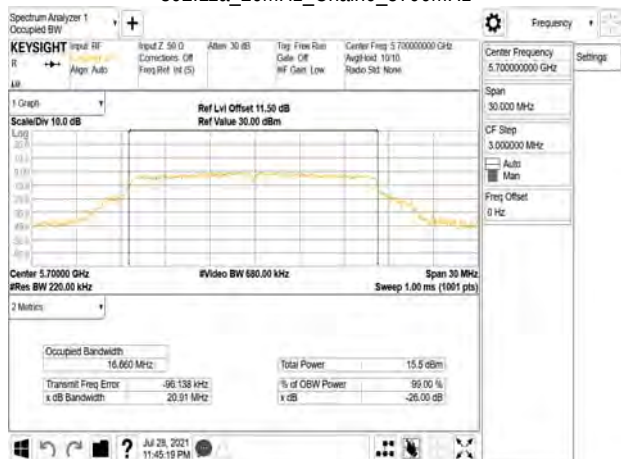
802.11a_20MHz_Chain0_5580MHz



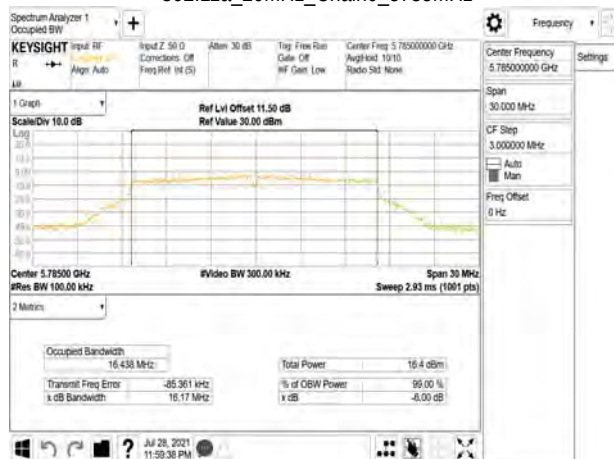
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

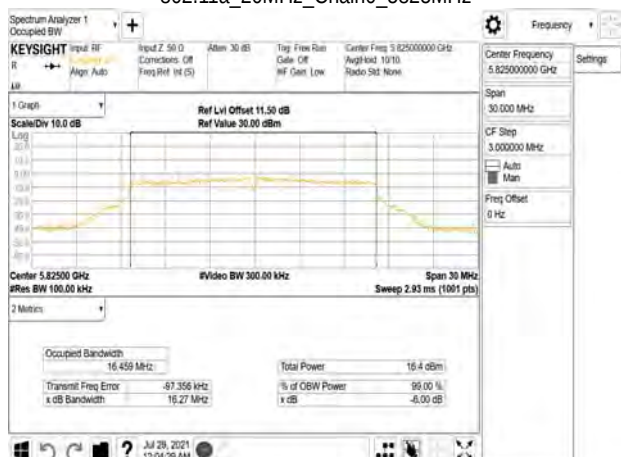


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802.11a_20MHz_Chain0_5825MHz



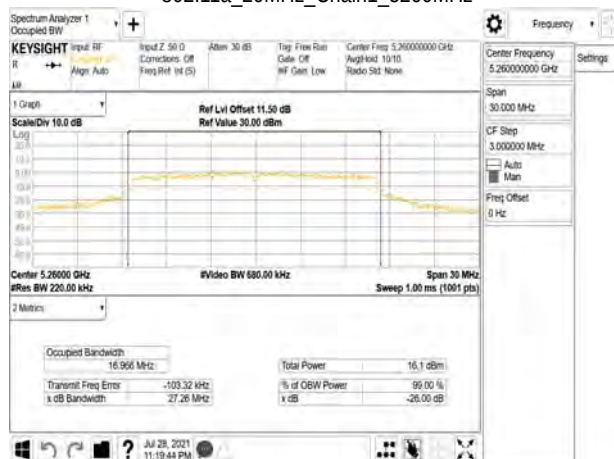
802.11a_20MHz_Chain1_5240MHz



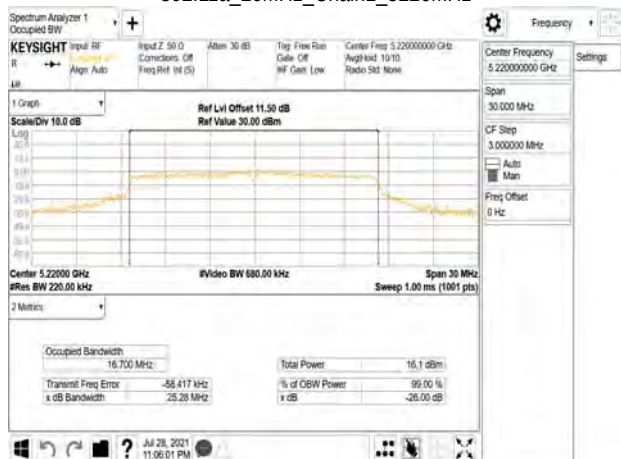
802.11a_20MHz_Chain1_5180MHz



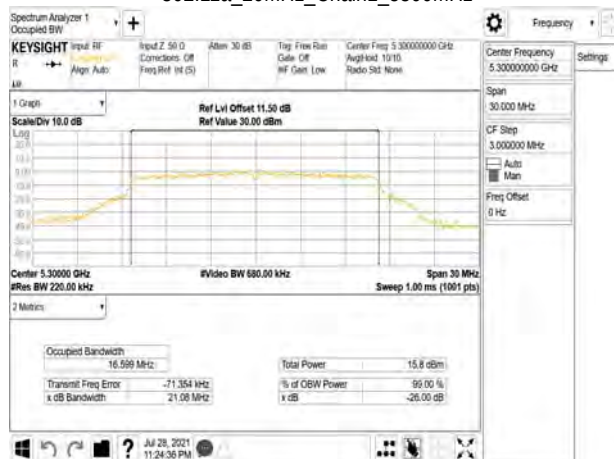
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz



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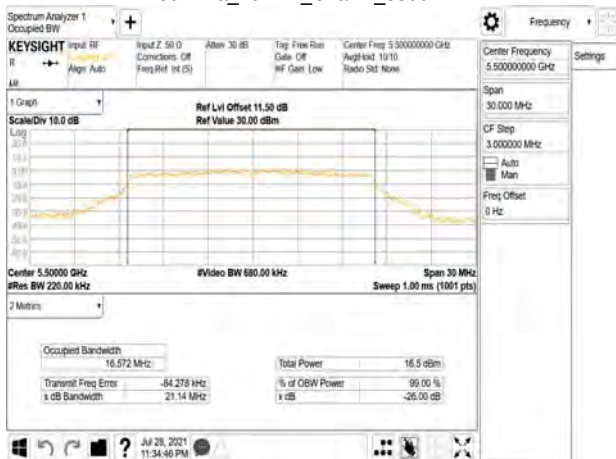
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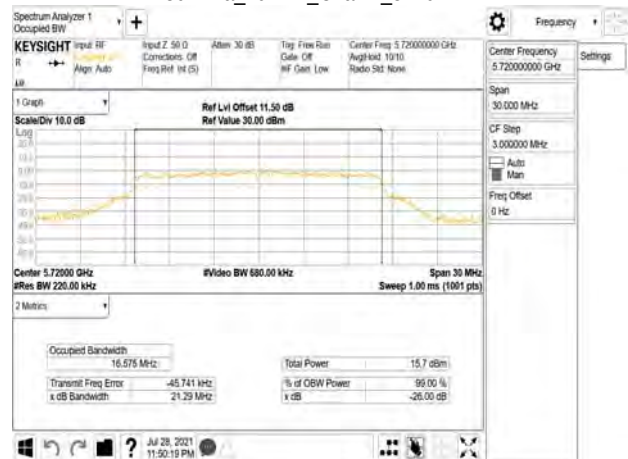
802.11a_20MHz_Chain1_5700MHz



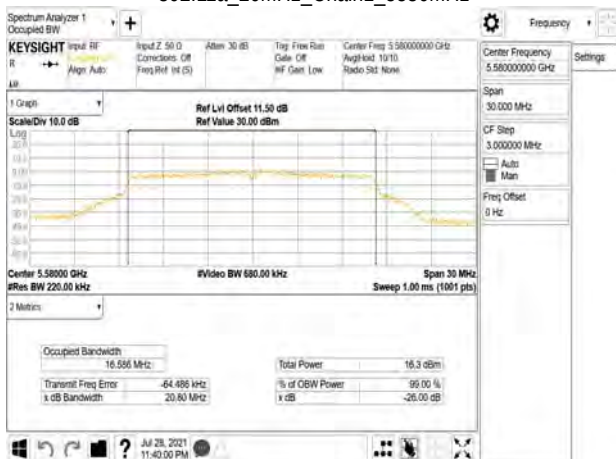
802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

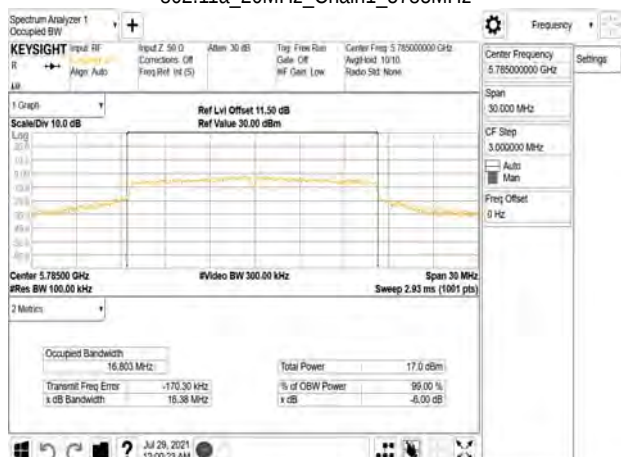


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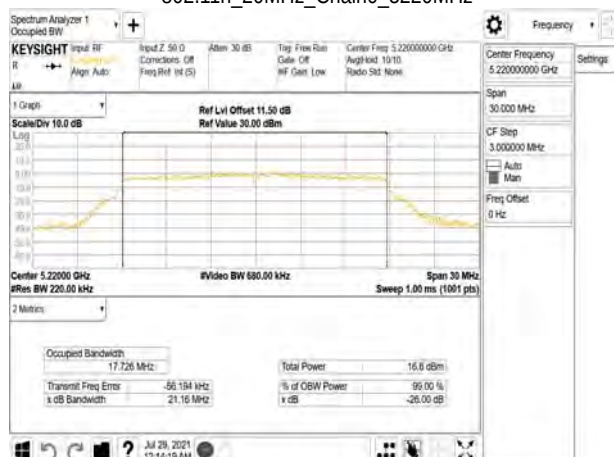
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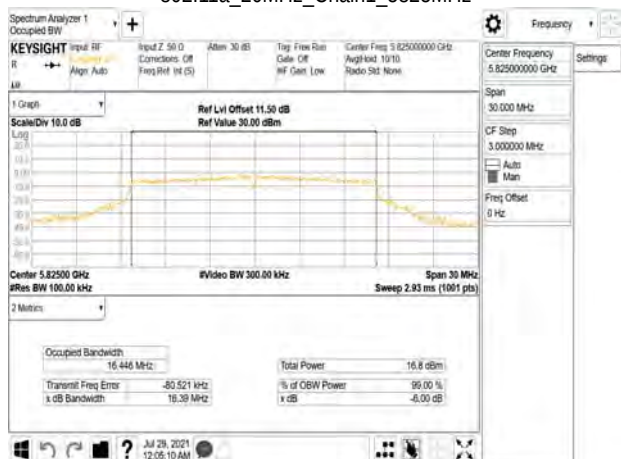
802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz



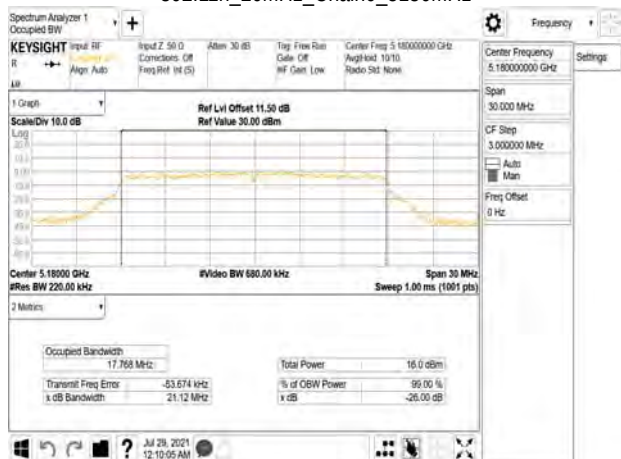
802.11a_20MHz_Chain1_5825MHz



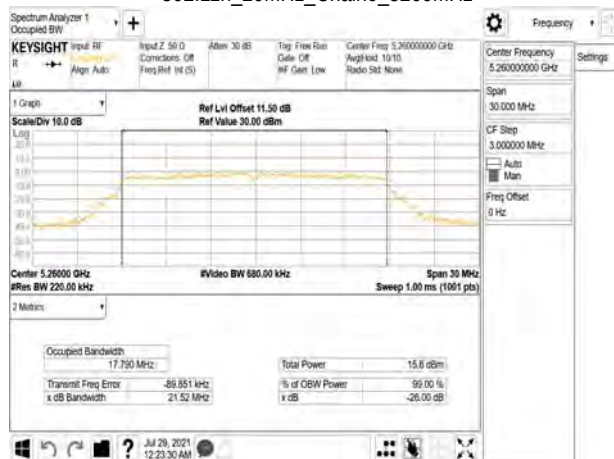
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz



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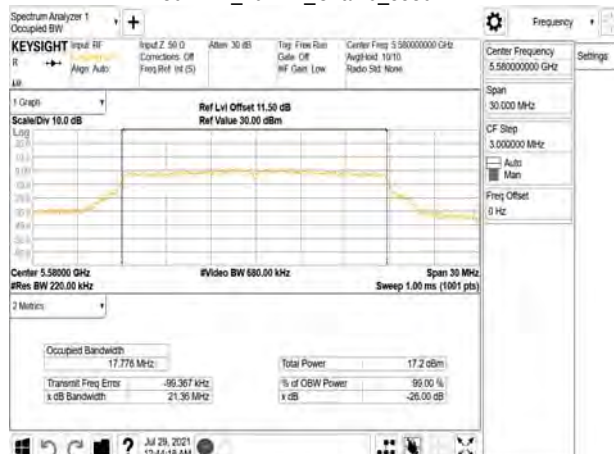
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802.11n_20MHz_Chain0_5300MHz



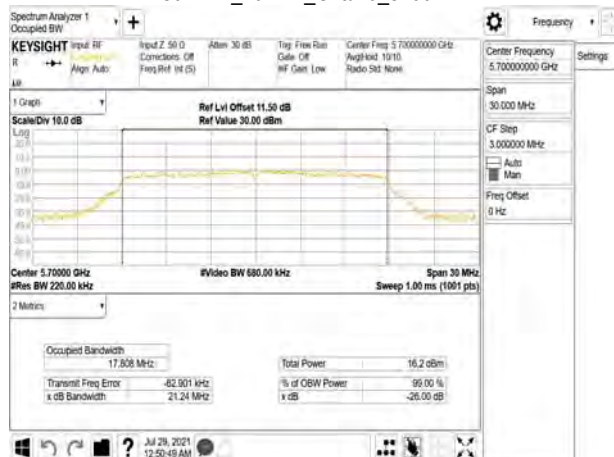
802.11n_20MHz_Chain0_5580MHz



802.11n_20MHz_Chain0_5320MHz



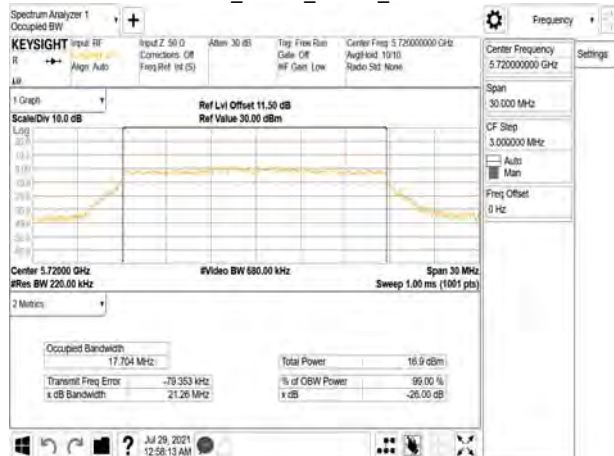
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



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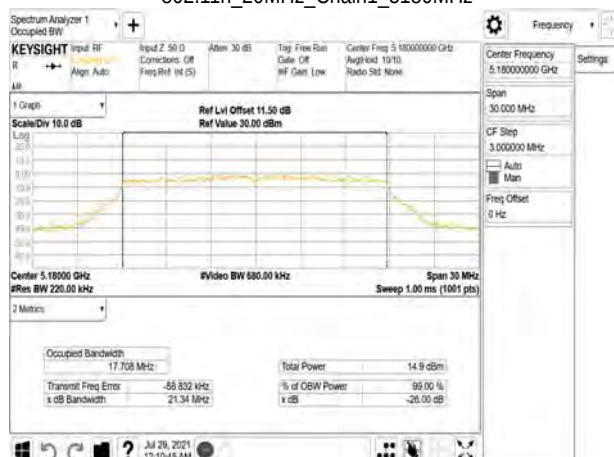
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802.11n_20MHz_Chain0_5745MHz



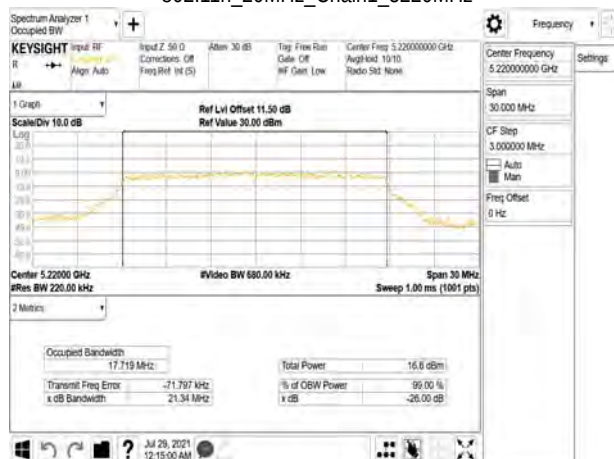
802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

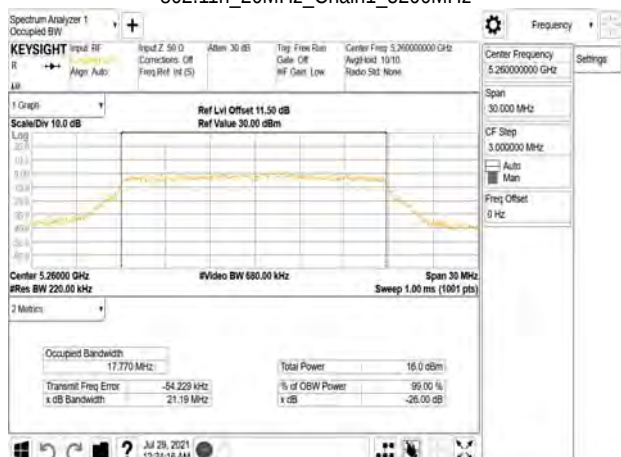


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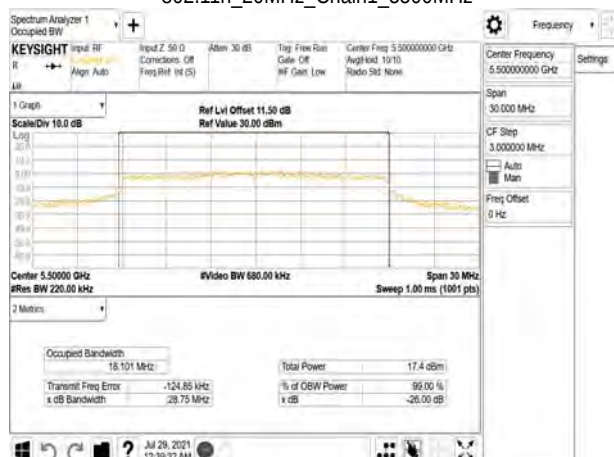
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802.11n_20MHz_Chain1_5260MHz



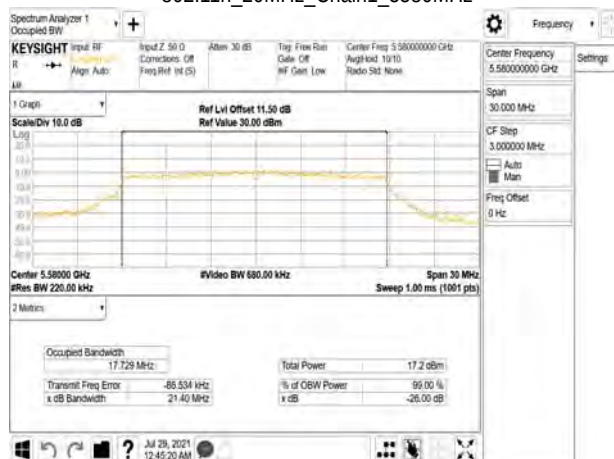
802.11n_20MHz_Chain1_5500MHz



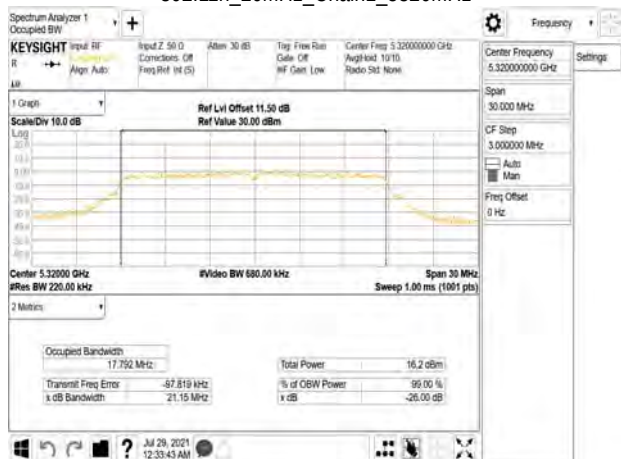
802.11n_20MHz_Chain1_5300MHz



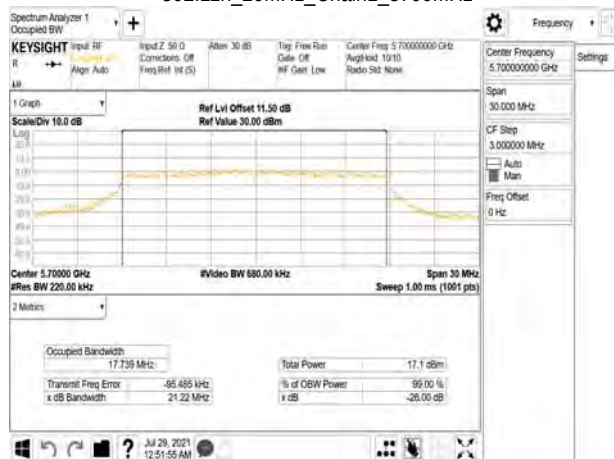
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz

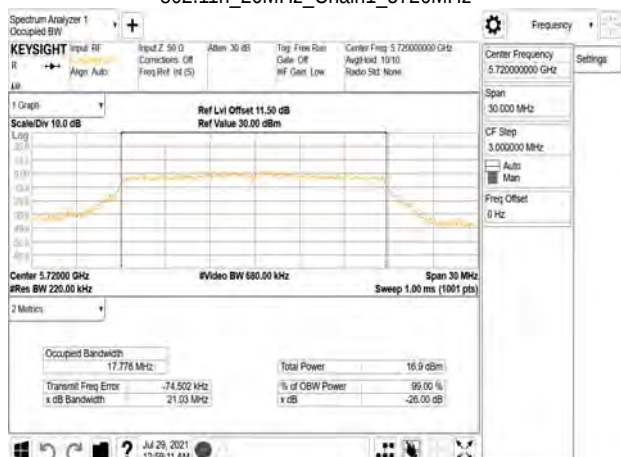


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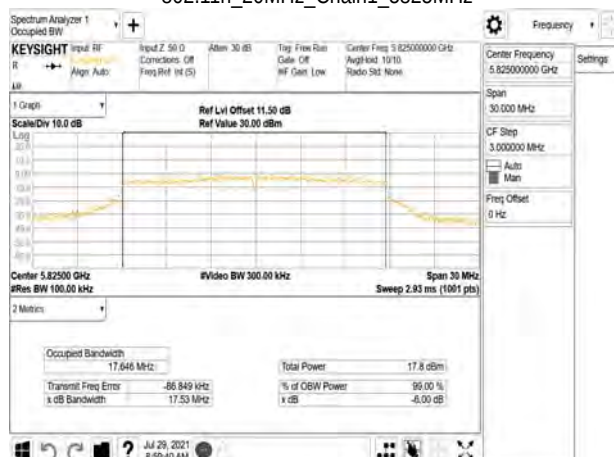
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802.11n_20MHz_Chain1_5720MHz



802.11n_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



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802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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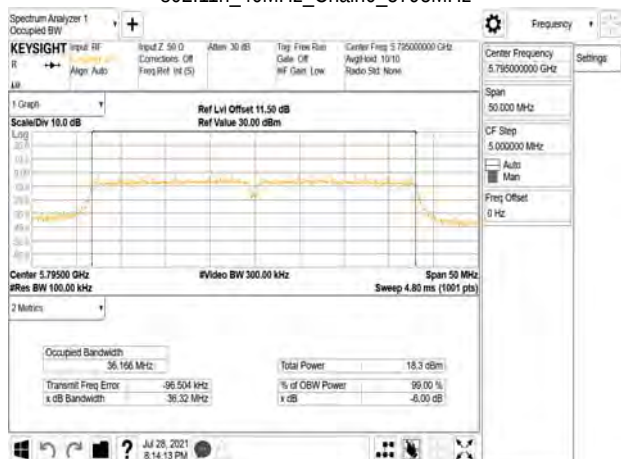
802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



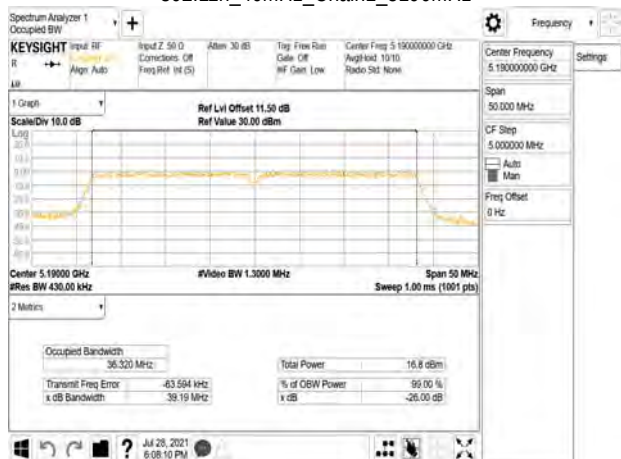
802.11n_40MHz_Chain0_5795MHz



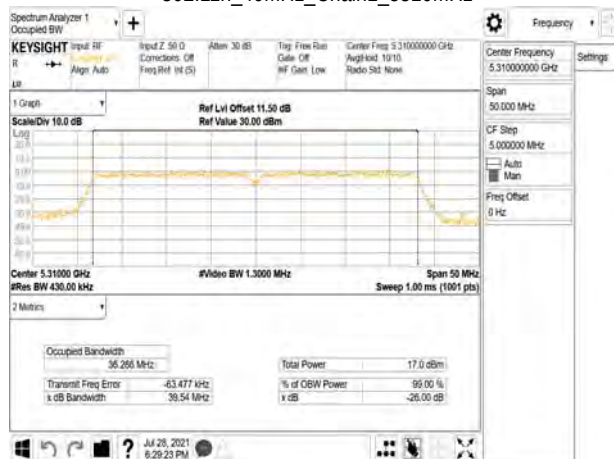
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz



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802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



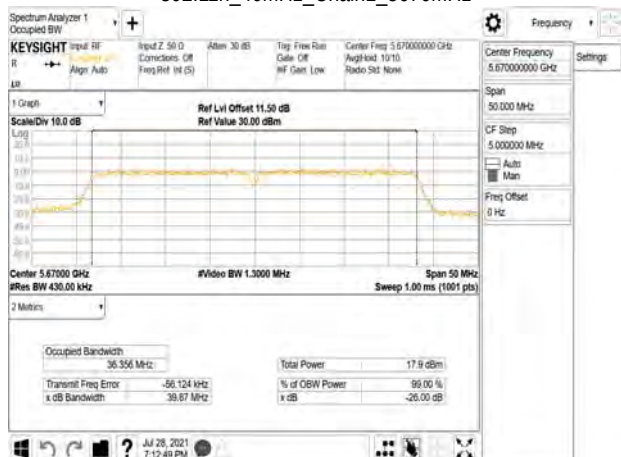
802.11n_40MHz_Chain1_5550MHz



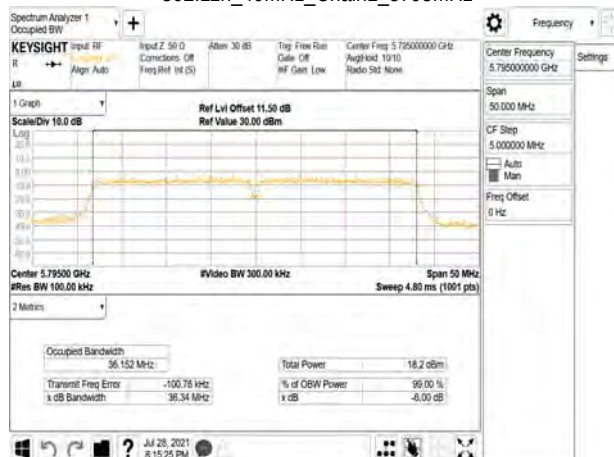
802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz



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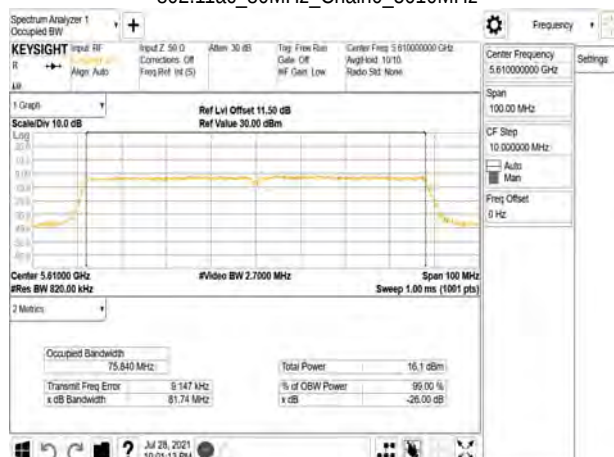
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802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



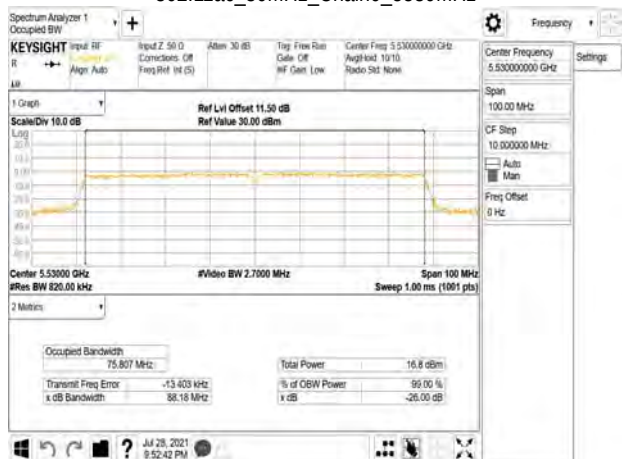
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain1_5610MHz



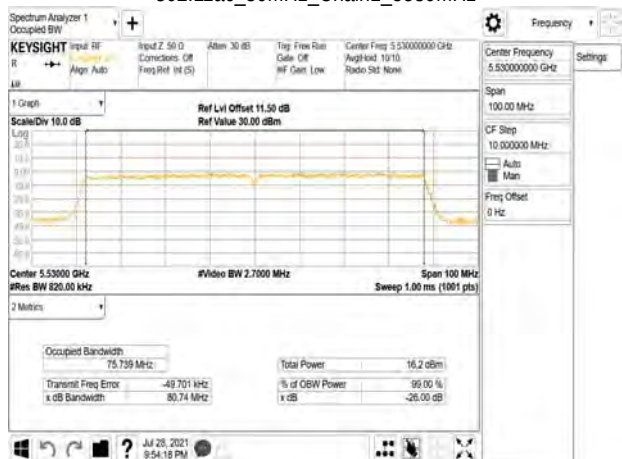
802.11ac_80MHz_Chain1_5290MHz



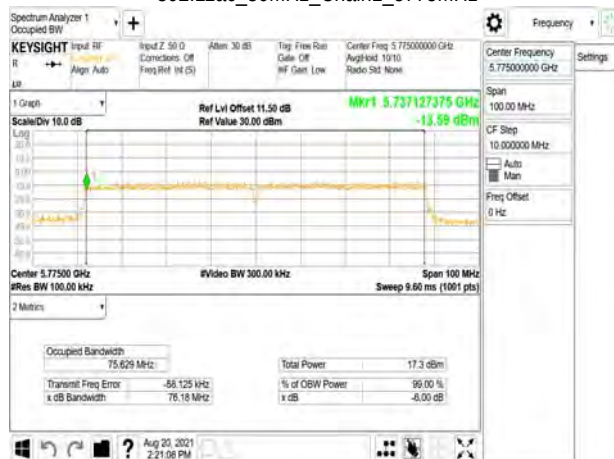
802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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8.5.2 ISED Occupied Bandwidth

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.588	12.200
5220	16.590	12.200
5240	16.529	12.180
5260	16.631	12.210
5300	16.616	12.210
5320	16.588	12.200
5500	16.588	12.200
5580	16.698	12.230
5700	16.599	12.200
5720(U-NII 2C)	13.307	11.240
5720(U-NII 3)	3.307	5.190

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	16.587	12.200
5220	16.729	12.230
5240	17.209	12.360
5260	16.799	12.250
5300	16.528	12.180
5320	16.563	12.190
5500	16.571	12.190
5580	16.571	12.190
5700	16.534	12.180
5720(U-NII 2C)	13.278	11.230
5720(U-NII 3)	3.278	5.160

802.11a_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.583	16.120
5785	16.556	16.240
5825	16.584	11.500

802.11a_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	16.695	16.200
5785	16.953	16.290
5825	16.608	11.500

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802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.725	12.490
5220	17.713	12.480
5240	17.701	12.480
5260	17.736	12.490
5300	17.745	12.490
5320	17.742	12.490
5500	17.755	12.490
5580	17.764	12.500
5700	17.737	12.490
5720(U-NII 2C)	13.868	11.420
5720(U-NII 3)	3.868	5.870

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5180	17.733	12.490
5220	17.719	12.480
5240	17.911	12.530
5260	17.690	12.480
5300	17.796	12.500
5320	17.724	12.490
5500	18.215	12.600
5580	17.739	12.490
5700	17.749	12.490
5720(U-NII 2C)	13.850	11.410
5720(U-NII 3)	3.850	5.850

802.11n_HT20_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.747	17.530
5785	17.720	17.490
5825	17.775	11.500

802.11n_HT20_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5745	17.829	17.520
5785	18.252	17.630
5825	17.782	11.500

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802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.305	15.600
5230	36.277	15.600
5270	36.355	15.610
5310	36.298	15.600
5510	36.200	15.590
5550	36.313	15.600
5670	36.281	15.600
5710(U-NII 2C)	33.167	15.210
5710(U-NII 3)	3.167	5.010

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5190	36.299	15.600
5230	36.241	15.590
5270	36.224	15.590
5310	36.274	15.600
5510	36.440	15.620
5550	36.247	15.590
5670	36.205	15.590
5710(U-NII 2C)	33.127	15.200
5710(U-NII 3)	3.127	4.950

802.11n_HT40_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.299	36.350
5795	36.222	36.340

802.11n_HT40_Ch1

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5755	36.338	36.380
5795	36.261	36.070

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802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.772	18.800
5290	75.714	18.790
5530	75.775	18.800
5610	75.765	18.790
5690(U-NII 2C)	72.880	18.630
5690(U-NII 3)	2.880	4.590

802.11ac_VHT80_Ch1

Frequency (MHz)	99% BW (MHz)	10 Log (B) (dB)
5210	75.754	18.790
5290	75.792	18.800
5530	75.731	18.790
5610	75.834	18.800
5690(U-NII 2C)	72.909	18.630
5690(U-NII 3)	2.909	4.640

802.11ac_VHT80_Ch0

Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.811	76.260

802.11ac_VHT80_Ch1

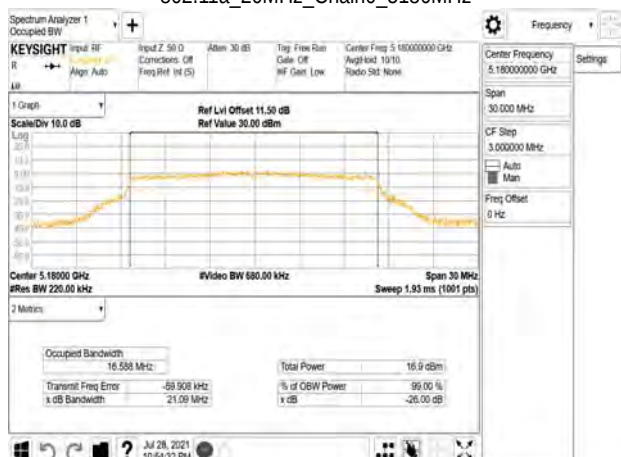
Frequency (MHz)	99% BW (MHz)	6dB BW (MHz)
5775	75.837	76.030

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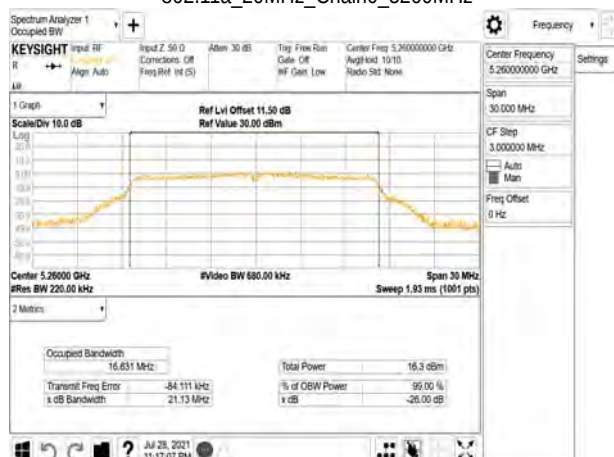
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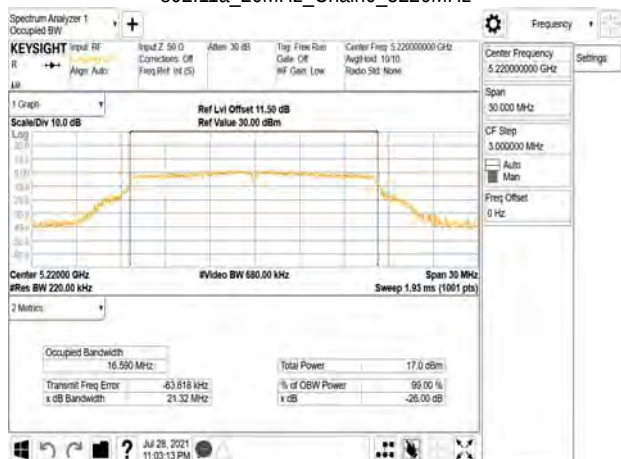
802.11a_20MHz_Chain0_5180MHz



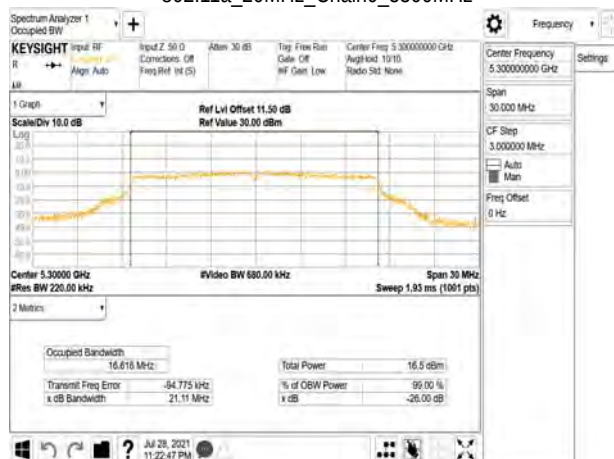
802.11a_20MHz_Chain0_5260MHz



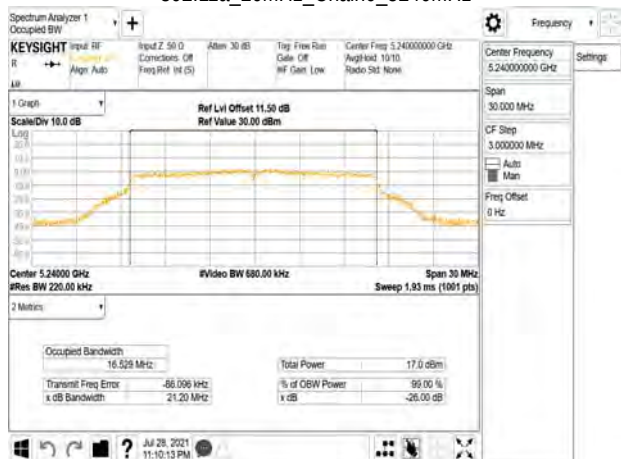
802.11a_20MHz_Chain0_5220MHz



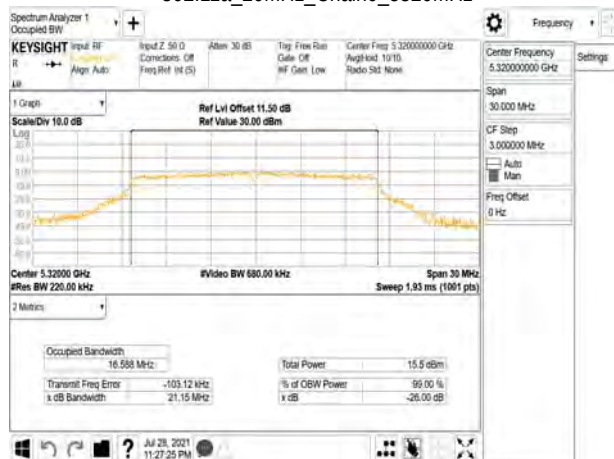
802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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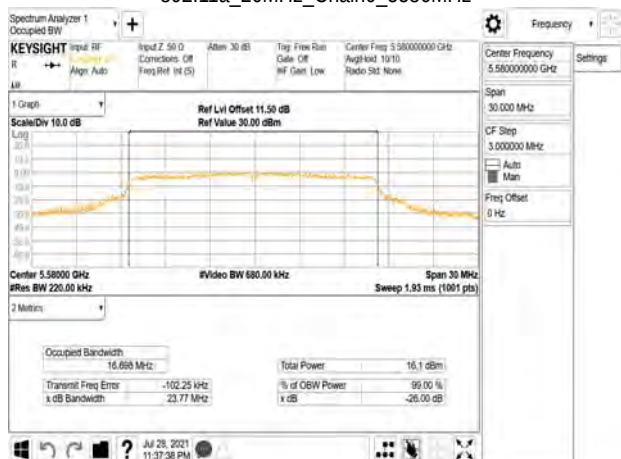
802.11a_20MHz_Chain0_5500MHz



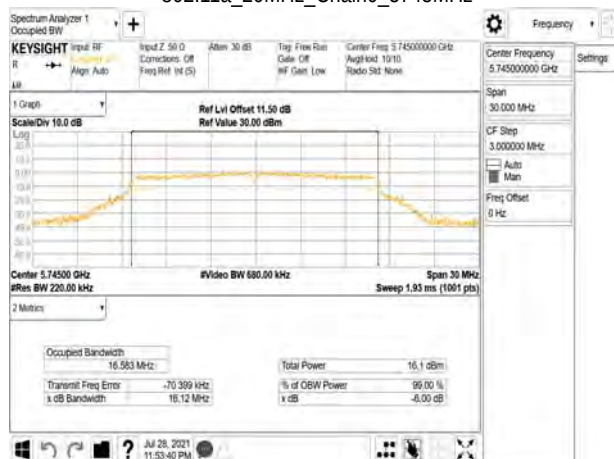
802.11a_20MHz_Chain0_5720MHz



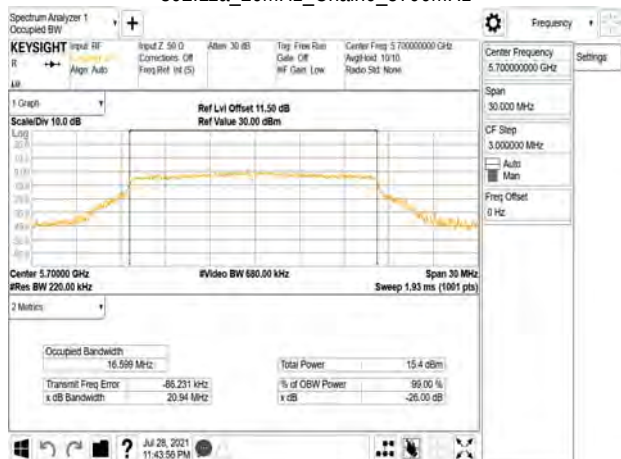
802.11a_20MHz_Chain0_5580MHz



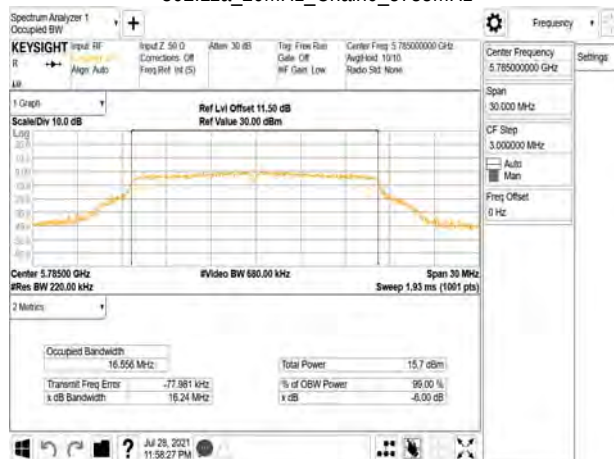
802.11a_20MHz_Chain0_5745MHz



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5785MHz

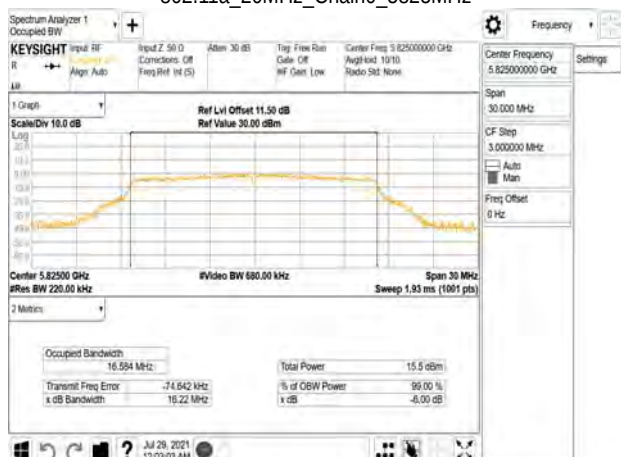


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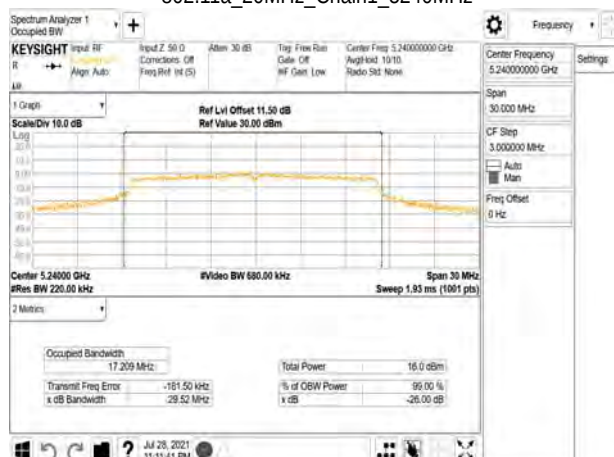
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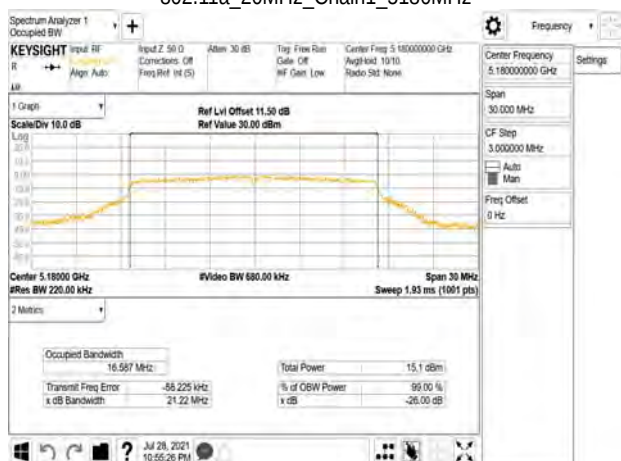
802.11a_20MHz_Chain0_5825MHz



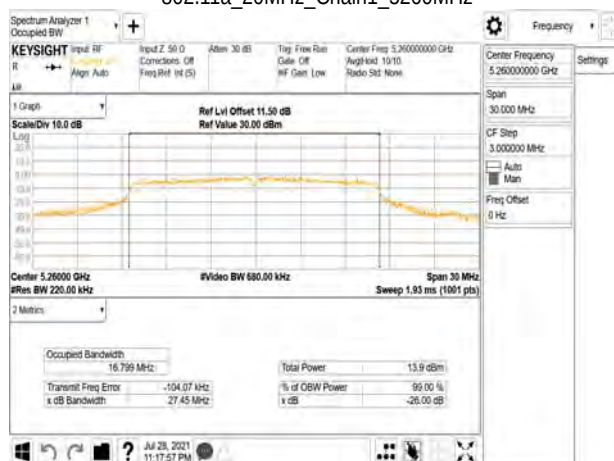
802.11a_20MHz_Chain1_5240MHz



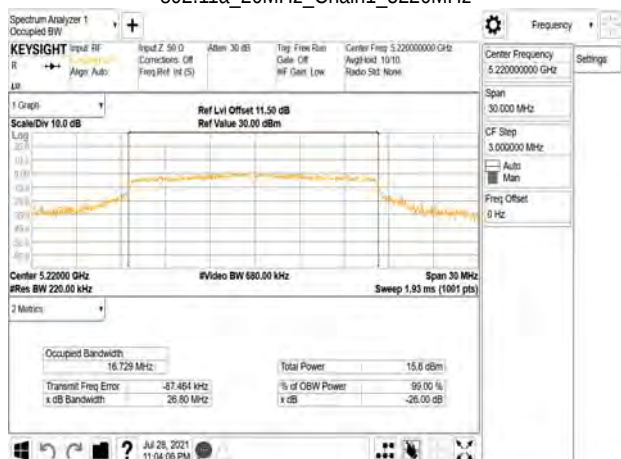
802.11a_20MHz_Chain1_5180MHz



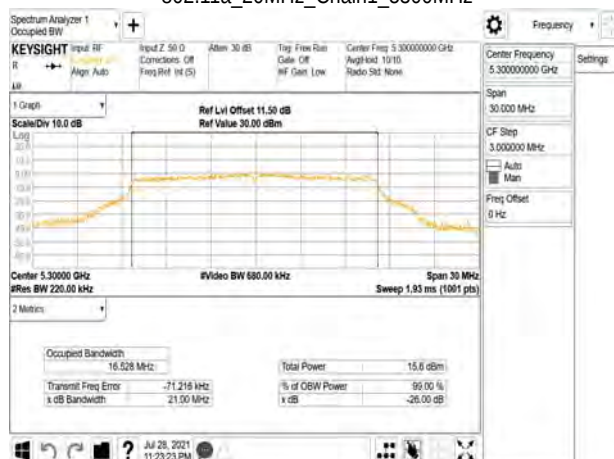
802.11a_20MHz_Chain1_5260MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain1_5300MHz



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802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



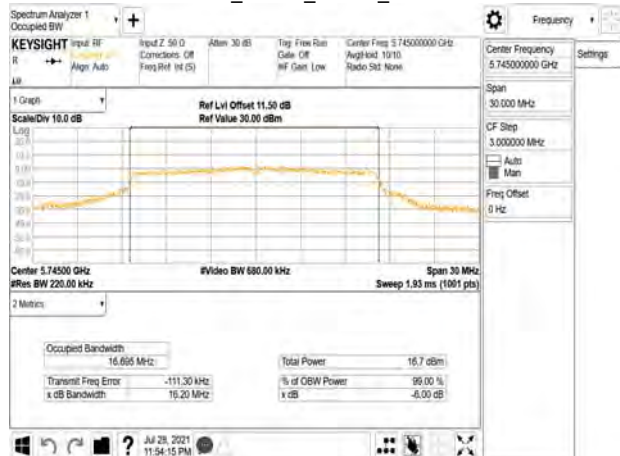
802.11a_20MHz_Chain1_5720MHz



802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5745MHz

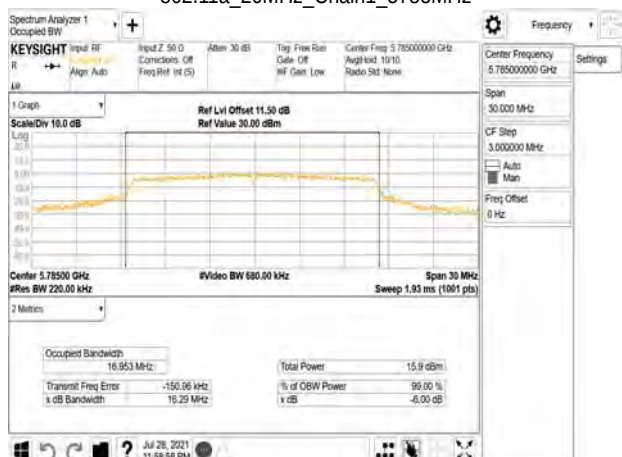


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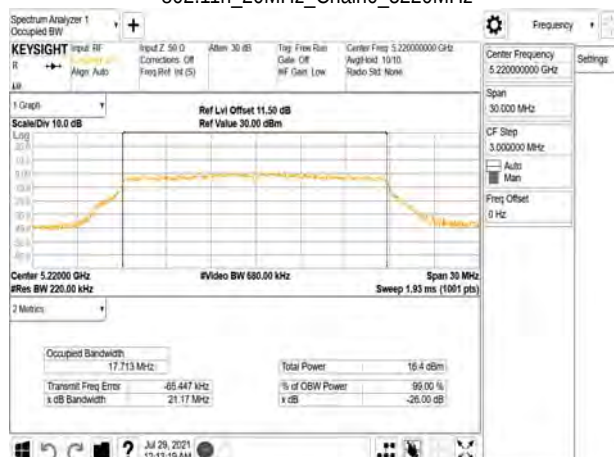
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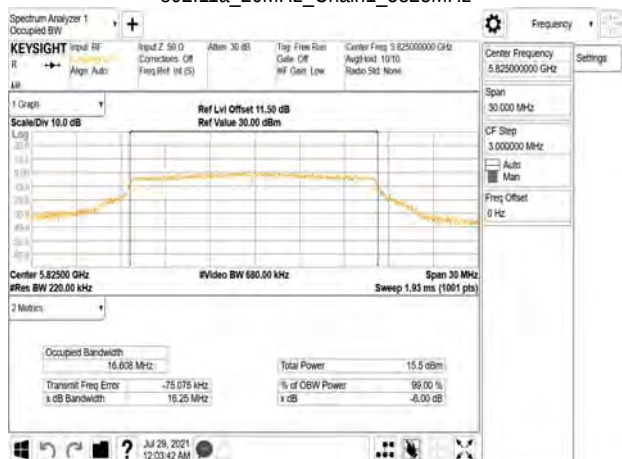
802.11a_20MHz_Chain1_5785MHz



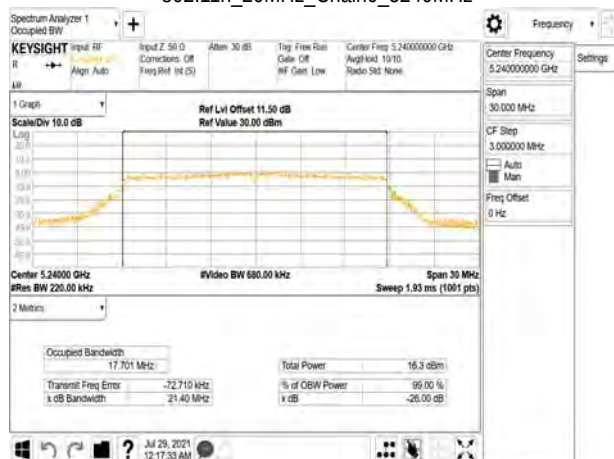
802.11n_20MHz_Chain0_5220MHz



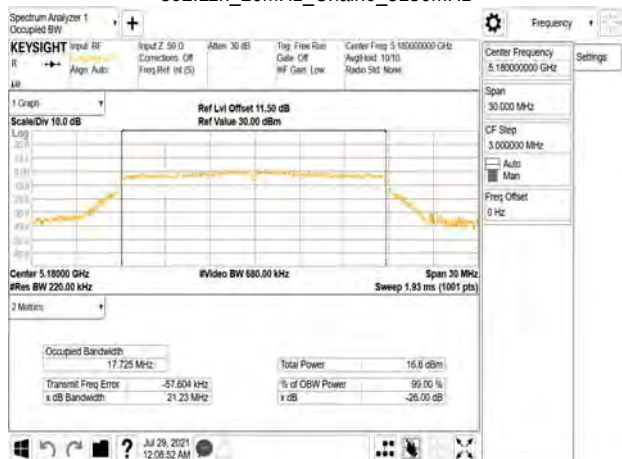
802.11a_20MHz_Chain1_5825MHz



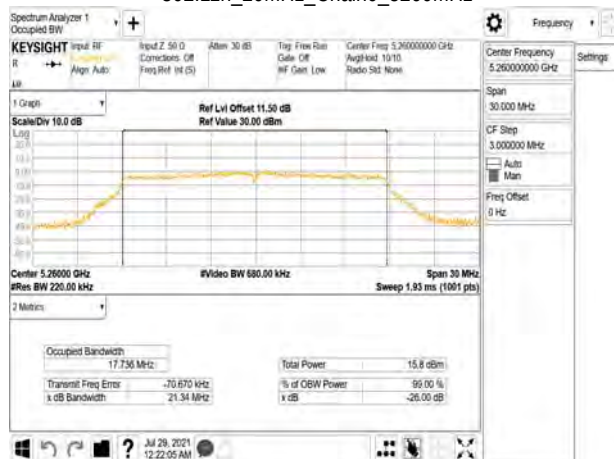
802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5180MHz



802.11n_20MHz_Chain0_5260MHz

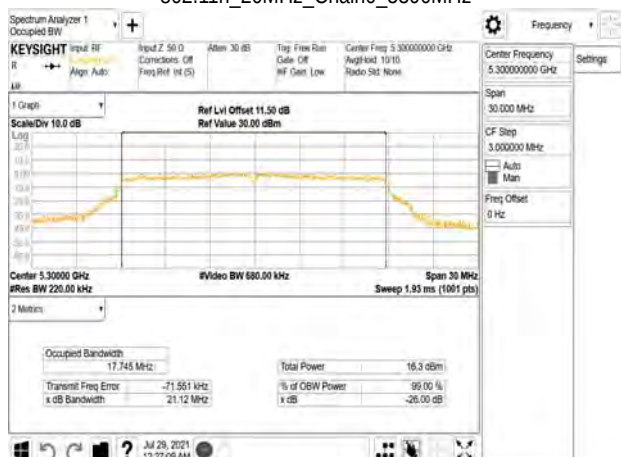


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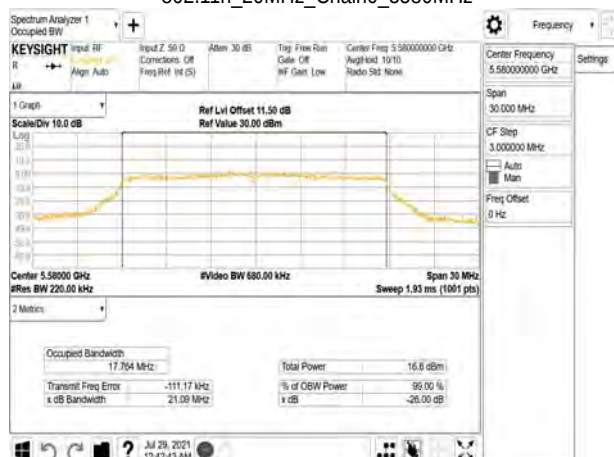
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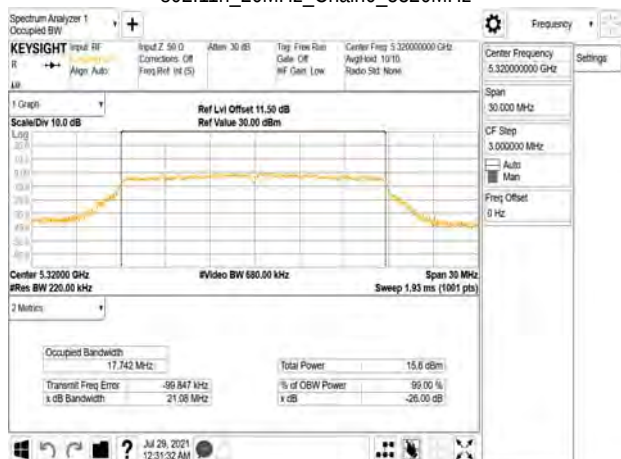
802.11n_20MHz_Chain0_5300MHz



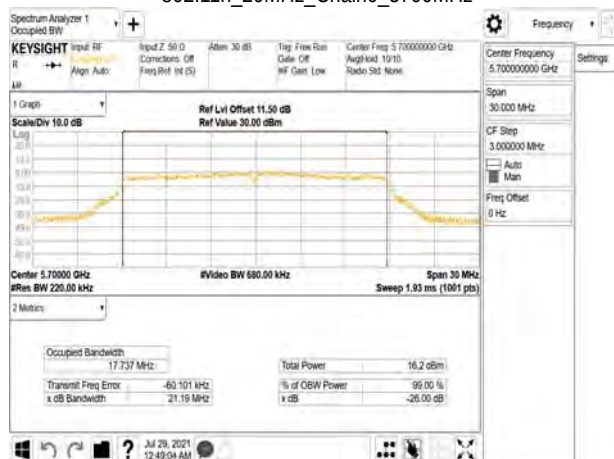
802.11n_20MHz_Chain0_5580MHz



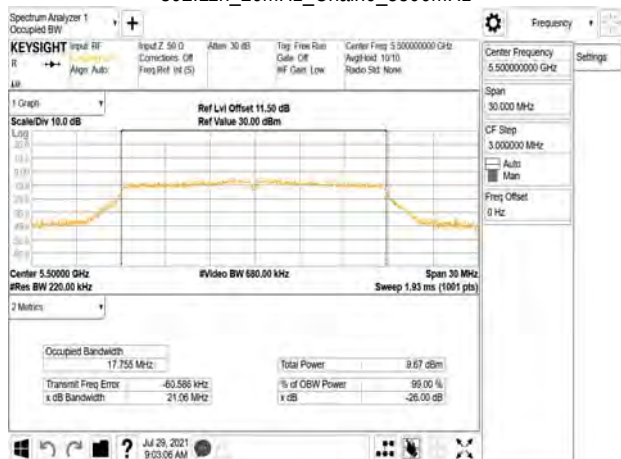
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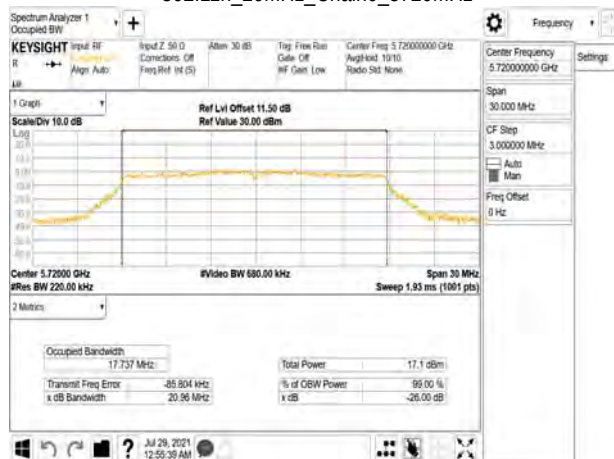
802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5720MHz



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802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain1_5180MHz



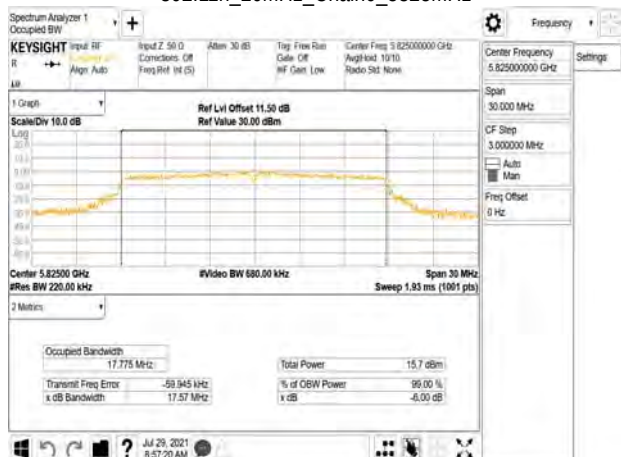
802.11n_20MHz_Chain0_5785MHz



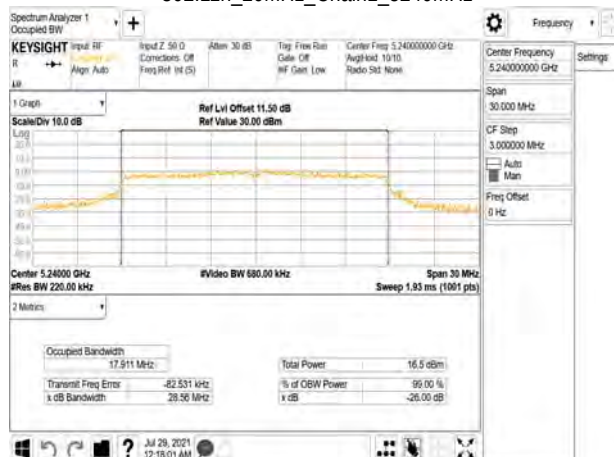
802.11n_20MHz_Chain1_5220MHz



802.11n_20MHz_Chain0_5825MHz



802.11n_20MHz_Chain1_5240MHz

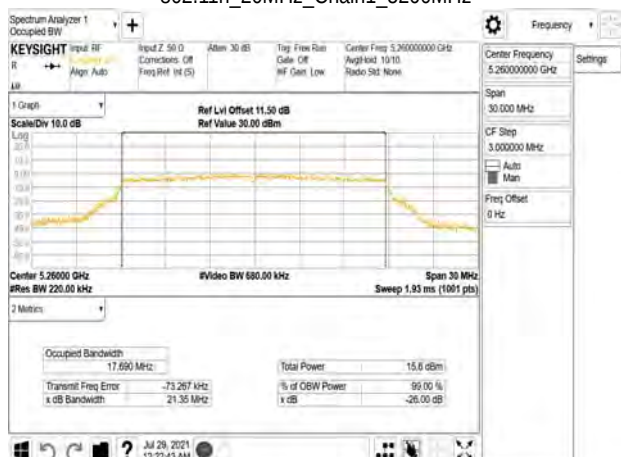


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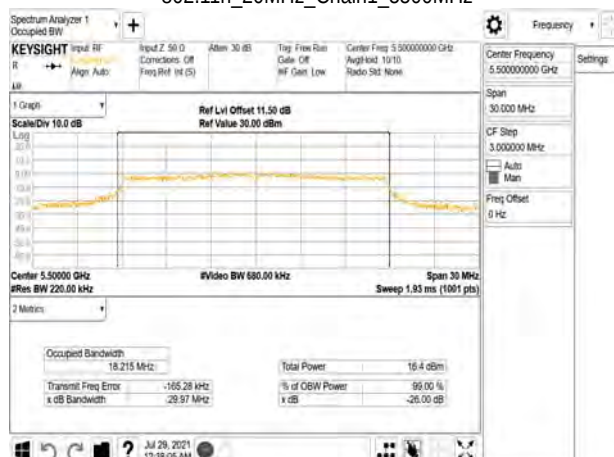
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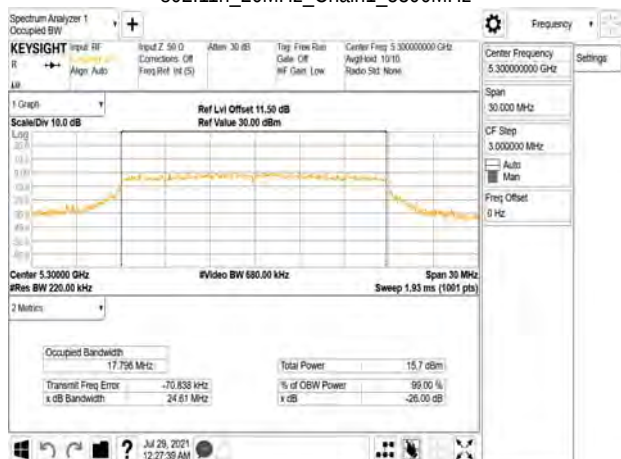
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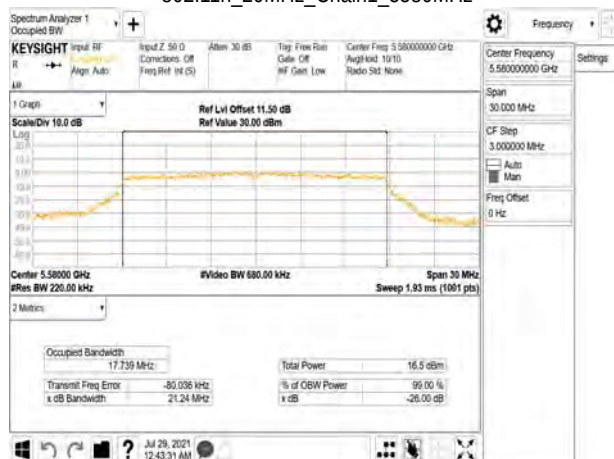
802.11n_20MHz_Chain1_5500MHz



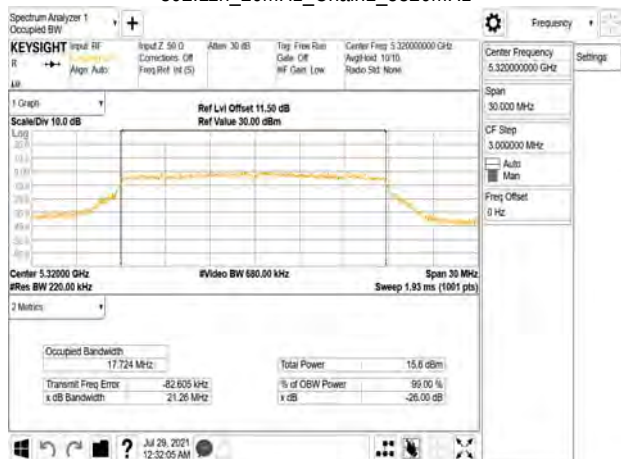
802.11n_20MHz_Chain1_5300MHz



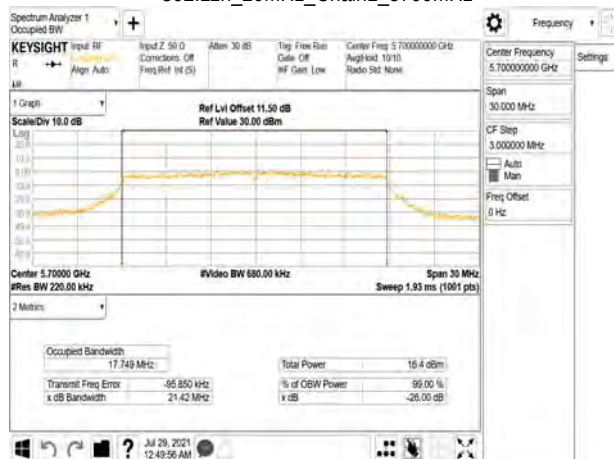
802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5320MHz



802.11n_20MHz_Chain1_5700MHz



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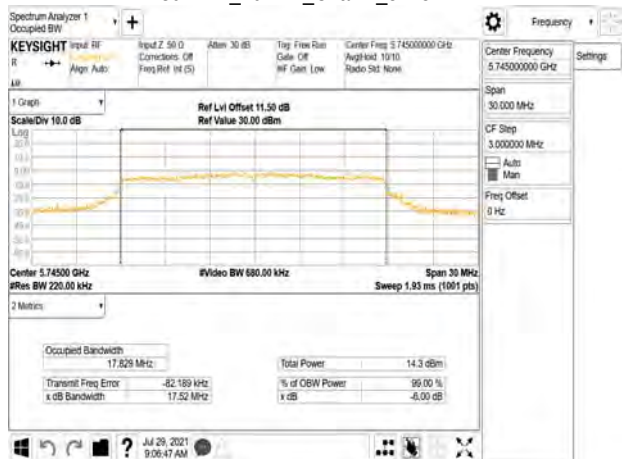
802.11n_20MHz_Chain1_5720MHz



802.11n_20MHz_Chain1_5825MHz



802.11n_20MHz_Chain1_5745MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz

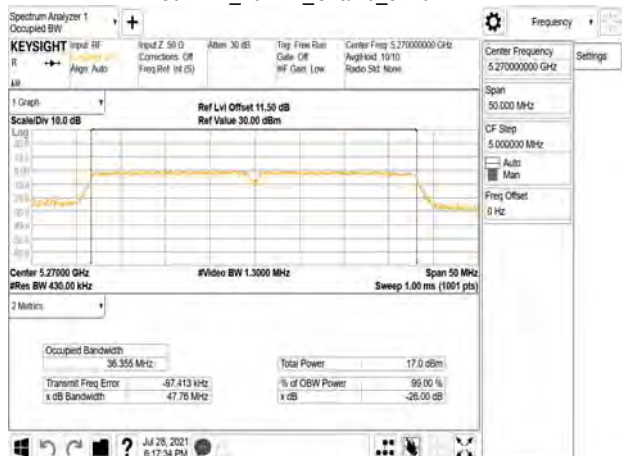


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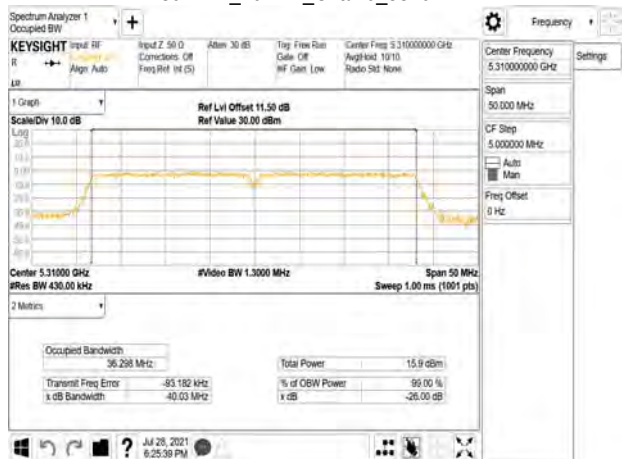
802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5310MHz



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz



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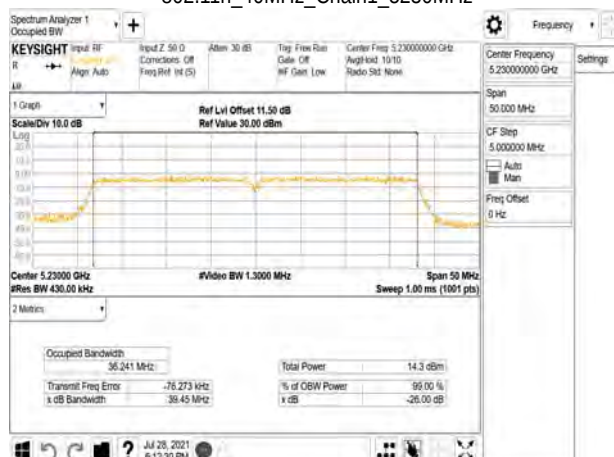
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802.11n_40MHz_Chain0_5755MHz



802.11n_40MHz_Chain1_5230MHz



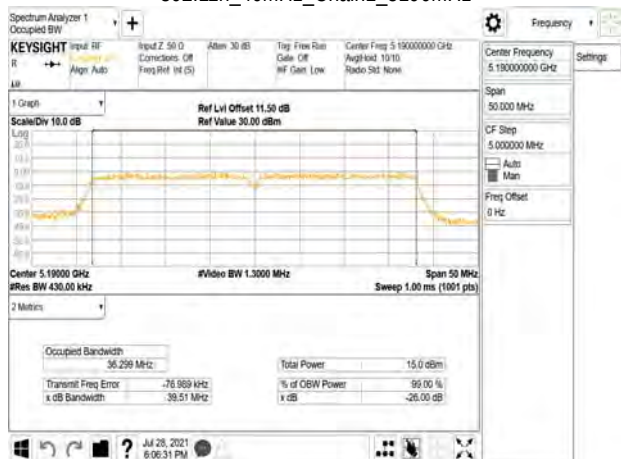
802.11n_40MHz_Chain0_5795MHz



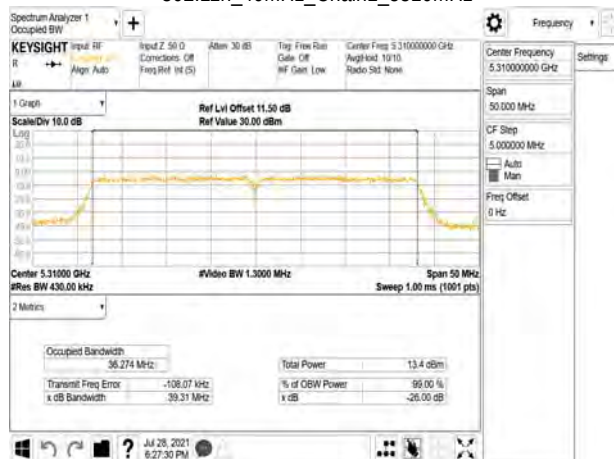
802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz



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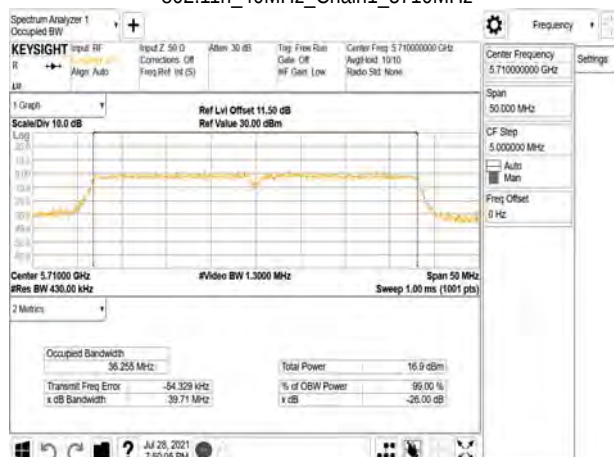
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802.11n_40MHz_Chain1_5510MHz



802.11n_40MHz_Chain1_5710MHz



802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5795MHz

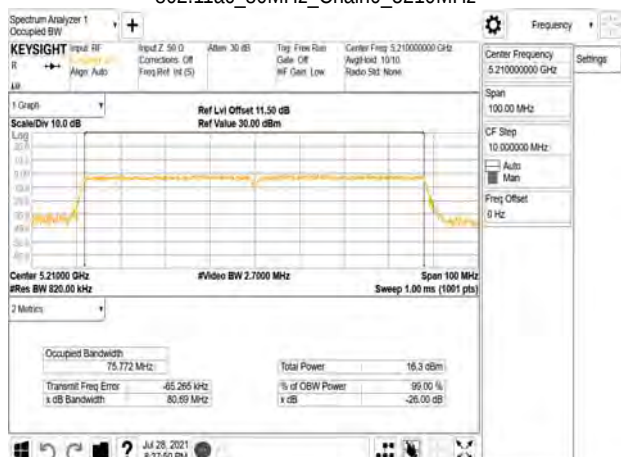


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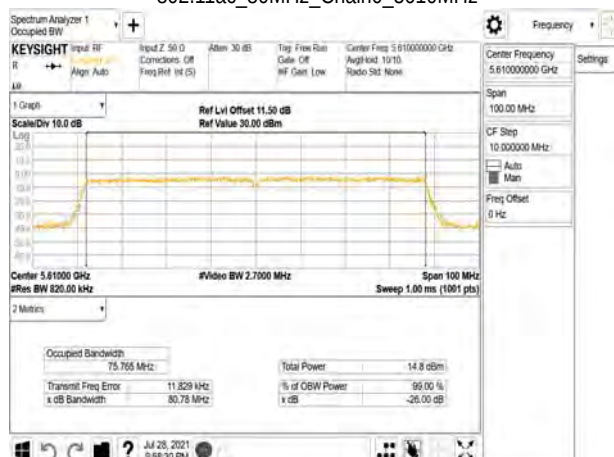
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802.11ac_80MHz_Chain0_5210MHz



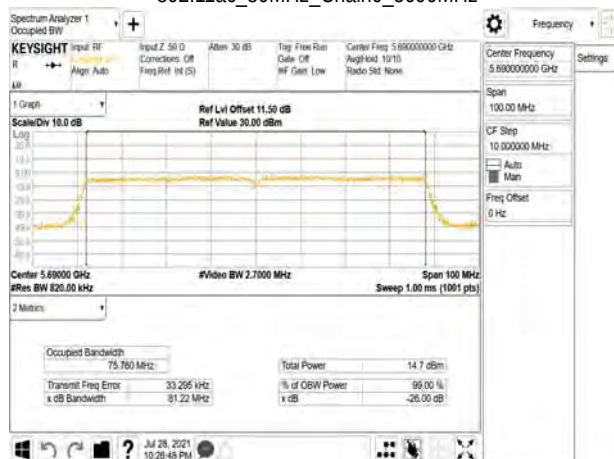
802.11ac_80MHz_Chain0_5610MHz



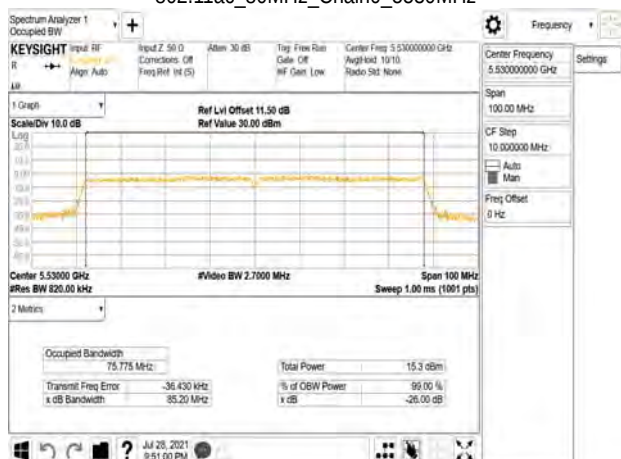
802.11ac_80MHz_Chain0_5290MHz



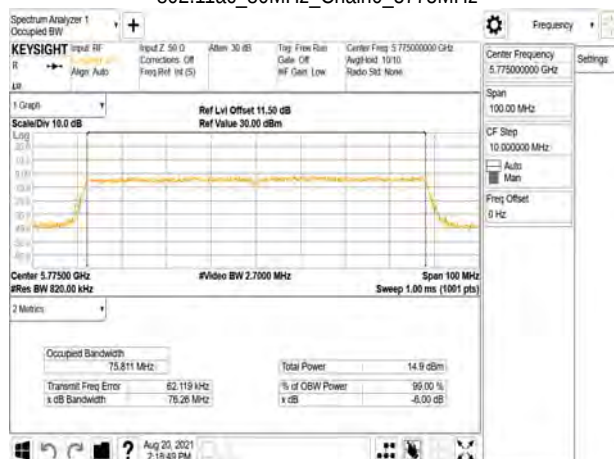
802.11ac_80MHz_Chain0_5690MHz



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5775MHz



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802.11ac_80MHz_Chain1_5210MHz



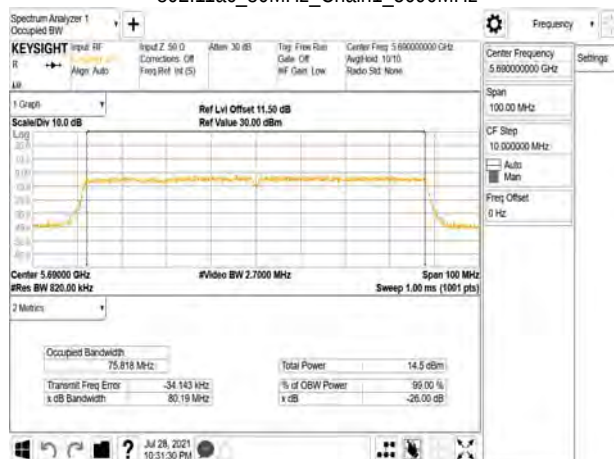
802.11ac_80MHz_Chain1_5610MHz



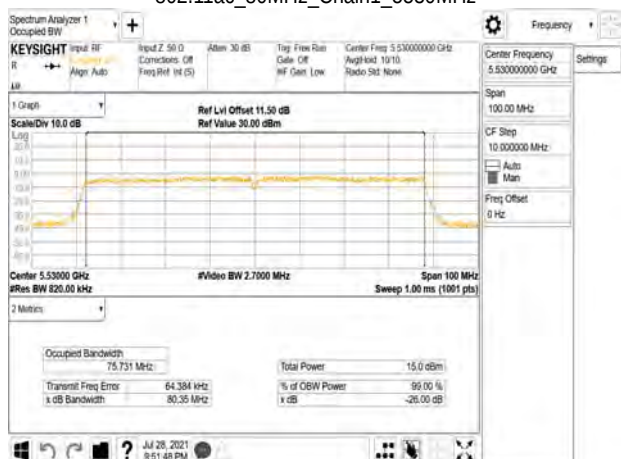
802.11ac_80MHz_Chain1_5290MHz



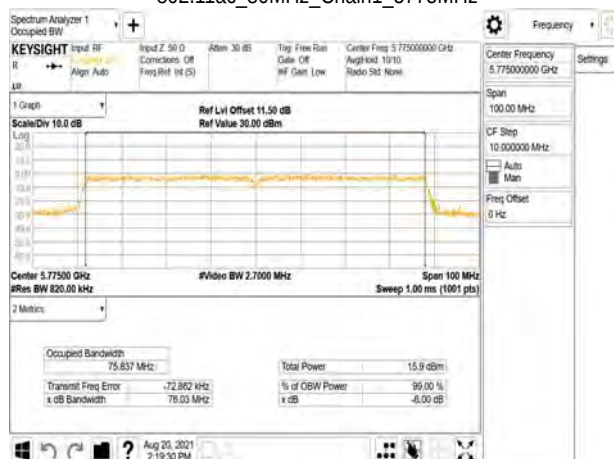
802.11ac_80MHz_Chain1_5690MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5775MHz



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9 MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT

9.1 Standard Applicable

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

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

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4		
			EIRP	Conducted Output Power	TPC
5150~5250	☐	OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	☒	Other device	200 mW or 10 + 10 log10B dBm	N/A	N/A
5250~5350	☐	OEM devices installed in vehicles	30 mW or 1.76 + 10 log10B	N/A	At least 3dB below 30mW EIRP
	☒	Other device	1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
	☐	Outdoor Fixed with EIRP>200mW	-13 dBW/MHz for $0^{\circ} \leq \theta < 8^{\circ}$ -13 -0.716 (θ -8) dBW/MHz for $8^{\circ} \leq \theta < 40^{\circ}$ -35.9 -1.22 (θ -40) dBW/MHz for $40^{\circ} \leq \theta \leq 45^{\circ}$ -42 dBW/MHz for $\theta > 45^{\circ}$	N/A	EIRP >500mW, at least 6dB below 1W EIRP
5470-5600 and 5650-5725	All		1.0 W or 17 + 10 log10B dBm	250 mW or 11 +10 log10B	EIRP >500mW, at least 6dB below 1W EIRP
5725~5850	All		N/A	1 W	N/A

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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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.

9.2 Measurement Procedure

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

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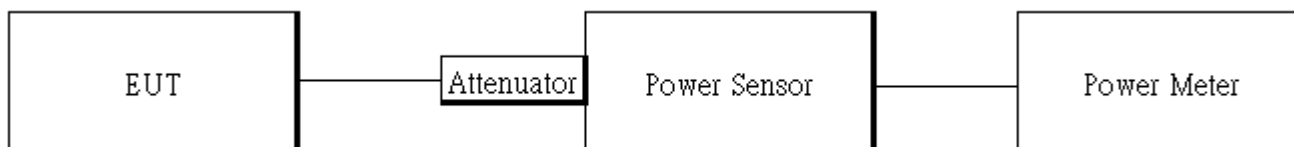
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9.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF158	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF57	11/19/2020	11/18/2021
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A

9.4 Test Set-up



9.5 Measurement Result

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power limits are the lesser of 250 mW (23.98dBm) or 11 dBm + 10 log B and EIRP limits are the lesser of 1.0W (30dBm) or 17 + 10 log B

1. Where B is the 26 dB emission bandwidth in megahertz for FCC compliance.
2. And B is the 99% for ISSED compliance.

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9.5.1 Conducted output power

802.11a_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	12	13.06	20.208	23.98	PASS
44	5220	6	12	13.20	20.870	23.98	PASS
48	5240	6	12	13.14	20.583	23.98	PASS
52	5260	6	12	13.16	20.678	23.98	PASS
60	5300	6	12	13.23	21.014	23.98	PASS
64	5320	6	12	13.21	20.918	23.98	PASS
100	5500	6	12	13.38	21.753	23.98	PASS
116	5580	6	12	13.34	21.553	23.98	PASS
140	5700	6	12	13.29	21.307	23.98	PASS
144	5720(U-NII 2C)	6	12	11.88	15.41	22.88	PASS
144	5720 (U-NII 3)	6	12	7.33	5.41	30	PASS
149	5745	6	12	13.07	20.254	30	PASS
157	5785	6	12	13.12	20.489	30	PASS
165	5825	6	13	13.43	22.005	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	6	13	13.03	20.069	23.98	PASS
44	5220	6	13	13.16	20.678	23.98	PASS
48	5240	6	13	13.09	20.348	23.98	PASS
52	5260	6	12	13.04	20.115	23.98	PASS
60	5300	6	13	13.13	20.536	23.98	PASS
64	5320	6	13	13.10	20.395	23.98	PASS
100	5500	6	12	13.30	21.356	23.98	PASS
116	5580	6	12	13.23	21.014	23.98	PASS
140	5700	6	12	13.20	20.870	23.98	PASS
144	5720(U-NII 2C)	6	12	11.73	14.88	22.94	PASS
144	5720 (U-NII 3)	6	12	7.30	5.37	30	PASS
149	5745	6	13	13.02	20.022	30	PASS
157	5785	6	12	13.05	20.161	30	PASS
165	5825	6	12	13.01	19.976	30	PASS

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802.11a_2TX

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	6	12	13.56	12.17	16.25	42.129	23.98	PASS
44	5220	6	12	13.51	12.13	16.20	41.687	23.98	PASS
48	5240	6	12	13.47	12.07	16.15	41.225	23.98	PASS
52	5260	6	12	13.61	12.2	16.29	42.535	23.98	PASS
60	5300	6	12	13.58	12.17	16.26	42.242	23.98	PASS
64	5320	6	12	13.63	12.21	16.30	42.690	23.98	PASS
100	5500	6	11	13.48	12.31	16.26	42.264	23.98	PASS
116	5580	6	11	13.53	12.29	16.28	42.458	23.98	PASS
140	5700	6	11	13.51	12.22	16.24	42.055	23.98	PASS
144	5720(U-NII 2C)	6	11	12.21	10.81	14.90	30.894	22.88	PASS
144	5720 (U-NII 3)	6	11	7.67	6.38	10.40	10.976	30	PASS
149	5745	6	12	13.46	12.44	16.31	42.711	30	PASS
157	5785	6	11	13.44	12.39	16.27	42.385	30	PASS
165	5825	6	11	13.56	12.48	16.38	43.441	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12	13.38	21.753	23.98	PASS
44	5220	MCS0	12	13.33	21.504	23.98	PASS
48	5240	MCS0	12	13.35	21.603	23.98	PASS
52	5260	MCS0	12	13.30	21.356	23.98	PASS
60	5300	MCS0	12	13.27	21.209	23.98	PASS
64	5320	MCS0	12	13.33	21.504	23.98	PASS
100	5500	MCS0	12	13.39	21.803	23.98	PASS
116	5580	MCS0	12	13.36	21.653	23.98	PASS
140	5700	MCS0	12	13.32	21.454	23.98	PASS
144	5720(U-NII 2C)	MCS0	12	12.06	16.07	23.98	PASS
144	5720 (U-NII 3)	MCS0	12	7.62	5.79	30	PASS
149	5745	MCS0	12	13.31	21.405	30	PASS
157	5785	MCS0	12	13.25	21.111	30	PASS
165	5825	MCS0	13	13.43	22.005	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	12.25	16.769	23.98	PASS
44	5220	MCS0	13	13.22	20.966	23.98	PASS
48	5240	MCS0	13	13.26	21.160	23.98	PASS
52	5260	MCS0	12	13.22	20.966	23.98	PASS
60	5300	MCS0	12	13.19	20.822	23.98	PASS
64	5320	MCS0	12	13.24	21.063	23.98	PASS
100	5500	MCS0	12	13.32	21.454	23.98	PASS
116	5580	MCS0	12	13.26	21.160	23.98	PASS
140	5700	MCS0	12	13.18	20.774	23.98	PASS
144	5720(U-NII 2C)	MCS0	12	11.99	15.83	23.98	PASS
144	5720 (U-NII 3)	MCS0	12	7.50	5.63	30	PASS
149	5745	MCS0	12	13.27	21.209	30	PASS
157	5785	MCS0	12	13.17	20.726	30	PASS
165	5825	MCS0	13	13.35	21.603	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS8	13	13.67	12.31	16.37	43.336	23.98	PASS
44	5220	MCS8	13	13.66	12.44	16.42	43.835	23.98	PASS
48	5240	MCS8	13	13.62	12.51	16.43	43.912	23.98	PASS
52	5260	MCS8	12	13.54	12.22	16.26	42.222	23.98	PASS
60	5300	MCS8	12	13.61	12.36	16.36	43.204	23.98	PASS
64	5320	MCS8	12	13.57	12.32	16.32	42.808	23.98	PASS
100	5500	MCS8	12	13.64	12.28	16.34	43.038	23.98	PASS
116	5580	MCS8	12	13.6	12.43	16.38	43.449	23.98	PASS
140	5700	MCS8	12	13.55	12.32	16.30	42.696	23.98	PASS
144	5720(U-NII 2C)	MCS8	12	12.13	10.96	14.92	31.020	22.91	PASS
144	5720 (U-NII 3)	MCS8	12	7.70	6.47	10.46	11.110	30	PASS
149	5745	MCS8	12	13.44	12.21	16.19	41.628	30	PASS
157	5785	MCS8	12	13.49	12.36	16.29	42.532	30	PASS
165	5825	MCS8	13	13.21	12.9	16.38	43.483	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	12	13.20	20.870	23.98	PASS
44	5220	MCS0	12	13.25	21.111	23.98	PASS
48	5240	MCS0	12	13.31	21.405	23.98	PASS
52	5260	MCS0	12	13.29	21.307	23.98	PASS
60	5300	MCS0	12	13.21	20.918	23.98	PASS
64	5320	MCS0	12	13.23	21.014	23.98	PASS
100	5500	MCS0	12	13.37	21.703	23.98	PASS
116	5580	MCS0	12	13.31	21.405	23.98	PASS
140	5700	MCS0	12	13.28	21.258	23.98	PASS
144	5720(U-NII 2C)	MCS0	12	12.01	15.88	23.98	PASS
144	5720 (U-NII 3)	MCS0	12	7.57	5.72	30	PASS
149	5745	MCS0	12	13.25	21.111	30	PASS
157	5785	MCS0	12	13.24	21.063	30	PASS
165	5825	MCS0	13	13.41	21.904	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	MCS0	13	13.13	20.536	23.98	PASS
44	5220	MCS0	13	13.19	20.822	23.98	PASS
48	5240	MCS0	13	13.23	21.014	23.98	PASS
52	5260	MCS0	12	13.13	20.536	23.98	PASS
60	5300	MCS0	13	13.19	20.822	23.98	PASS
64	5320	MCS0	13	13.16	20.678	23.98	PASS
100	5500	MCS0	12	13.32	21.454	23.98	PASS
116	5580	MCS0	12	13.10	20.395	23.98	PASS
140	5700	MCS0	12	13.12	20.489	23.98	PASS
144	5720(U-NII 2C)	MCS0	12	12.01	15.90	23.98	PASS
144	5720 (U-NII 3)	MCS0	12	7.52	5.65	30	PASS
149	5745	MCS0	13	13.15	20.631	30	PASS
157	5785	MCS0	12	13.12	20.489	30	PASS
165	5825	MCS0	12	13.36	21.653	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
36	5180	MCS0	13	13.7	12.01	16.26	42.288	23.98	PASS
44	5220	MCS0	13	13.71	12.12	16.31	42.784	23.98	PASS
48	5240	MCS0	13	13.75	12.31	16.41	43.801	23.98	PASS
52	5260	MCS0	12	13.42	12.09	16.13	41.032	23.98	PASS
60	5300	MCS0	12	13.46	12.15	16.18	41.492	23.98	PASS
64	5320	MCS0	12	13.41	12.27	16.20	41.714	23.98	PASS
100	5500	MCS0	12	13.48	12.56	16.37	43.349	23.98	PASS
116	5580	MCS0	12	13.33	12.75	16.38	43.402	23.98	PASS
140	5700	MCS0	12	13.27	12.61	16.28	42.442	23.98	PASS
144	5720(U-NII 2C)	MCS0	12	11.91	11.20	14.90	30.914	22.91	PASS
144	5720 (U-NII 3)	MCS0	12	7.48	6.71	10.44	11.068	30	PASS
149	5745	MCS0	12	13.01	12.58	16.13	40.981	30	PASS
157	5785	MCS0	12	13.15	12.49	16.16	41.286	30	PASS
165	5825	MCS0	12	13.35	12.47	16.26	42.245	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11	12.37	17.277	23.98	PASS
46	5230	MCS0	11	12.39	17.357	23.98	PASS
54	5270	MCS0	11	12.29	16.962	23.98	PASS
62	5310	MCS0	11	12.33	17.119	23.98	PASS
102	5510	MCS0	11	12.41	17.437	23.98	PASS
110	5550	MCS0	11	12.19	16.576	23.98	PASS
134	5670	MCS0	11	12.31	17.040	23.98	PASS
142	5710(U-NII 2C)	MCS0	11	11.81	15.19	23.98	PASS
142	5710 (U-NII 3)	MCS0	11	3.29	2.13	30	PASS
151	5755	MCS0	11	12.35	17.198	30	PASS
159	5795	MCS0	12	12.42	17.478	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12	12.24	16.768	23.98	PASS
46	5230	MCS0	12	12.26	16.845	23.98	PASS
54	5270	MCS0	12	12.22	16.691	23.98	PASS
62	5310	MCS0	12	12.28	16.923	23.98	PASS
102	5510	MCS0	11	12.31	17.040	23.98	PASS
110	5550	MCS0	11	12.19	16.576	23.98	PASS
134	5670	MCS0	11	12.25	16.807	23.98	PASS
142	5710(U-NII 2C)	MCS0	11	11.68	14.72	23.98	PASS
142	5710 (U-NII 3)	MCS0	11	3.03	2.01	30	PASS
151	5755	MCS0	11	12.29	16.962	30	PASS
159	5795	MCS0	12	12.28	16.923	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS8	13	12.02	11.18	15.24	33.384	23.98	PASS
46	5230	MCS8	13	11.96	11.21	15.22	33.237	23.98	PASS
54	5270	MCS8	13	12.31	11.32	15.46	35.142	23.98	PASS
62	5310	MCS8	13	12.33	11.26	15.44	35.019	23.98	PASS
102	5510	MCS8	12	11.92	11.65	15.40	34.691	23.98	PASS
110	5550	MCS8	12	11.72	11.55	15.25	33.504	23.98	PASS
134	5670	MCS8	12	11.69	11.51	15.22	33.236	23.98	PASS
142	5710(U-NII 2C)	MCS8	12	11.14	11.03	14.70	29.496	23.98	PASS
142	5710 (U-NII 3)	MCS8	12	2.61	2.38	6.11	4.084	30	PASS
151	5755	MCS8	12	11.62	11.46	15.16	32.778	30	PASS
159	5795	MCS8	12	11.64	11.41	15.14	32.671	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	11	12.28	16.923	23.98	PASS
46	5230	MCS0	11	12.29	16.962	23.98	PASS
54	5270	MCS0	11	12.22	16.691	23.98	PASS
62	5310	MCS0	11	12.26	16.845	23.98	PASS
102	5510	MCS0	11	12.33	17.119	23.98	PASS
110	5550	MCS0	11	12.24	16.768	23.98	PASS
134	5670	MCS0	11	12.29	16.962	23.98	PASS
142	5710(U-NII 2C)	MCS0	11	11.69	14.77	23.98	PASS
142	5710 (U-NII 3)	MCS0	11	3.17	2.07	30	PASS
151	5755	MCS0	11	12.15	16.424	30	PASS
159	5795	MCS0	12	12.32	17.080	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	MCS0	12	12.18	16.538	23.98	PASS
46	5230	MCS0	12	12.24	16.768	23.98	PASS
54	5270	MCS0	12	12.13	16.349	23.98	PASS
62	5310	MCS0	12	12.16	16.462	23.98	PASS
102	5510	MCS0	11	12.21	16.653	23.98	PASS
110	5550	MCS0	11	12.11	16.273	23.98	PASS
134	5670	MCS0	11	12.13	16.349	23.98	PASS
142	5710(U-NII 2C)	MCS0	11	11.60	14.45	23.98	PASS
142	5710 (U-NII 3)	MCS0	11	2.95	1.97	30	PASS
151	5755	MCS0	11	12.15	16.424	30	PASS
159	5795	MCS0	12	12.22	16.691	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
38	5190	MCS0	12	12.43	10.67	15.25	33.525	23.98	PASS
46	5230	MCS0	12	12.34	10.77	15.24	33.425	23.98	PASS
54	5270	MCS0	12	12.59	10.85	15.42	34.847	23.98	PASS
62	5310	MCS0	12	12.57	10.86	15.41	34.783	23.98	PASS
102	5510	MCS0	11	11.77	11.42	15.21	33.217	23.98	PASS
110	5550	MCS0	11	11.74	11.33	15.15	32.771	23.98	PASS
134	5670	MCS0	11	11.73	11.37	15.17	32.876	23.98	PASS
142	5710(U-NII 2C)	MCS0	11	11.24	10.88	14.68	29.349	23.98	PASS
142	5710 (U-NII 3)	MCS0	11	2.71	2.23	6.09	4.065	30	PASS
151	5755	MCS0	12	11.9	11.73	15.43	34.922	30	PASS
159	5795	MCS0	12	11.88	11.62	15.37	34.412	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	9	10.39	10.927	23.98	PASS
58	5290	MCS0	9	10.35	10.827	23.98	PASS
106	5530	MCS0	9	10.44	11.054	23.98	PASS
122	5610	MCS0	9	10.39	10.927	23.98	PASS
138	5690(U-NII 2C)	MCS0	9	10.13	10.31	23.98	PASS
138	5690 (U-NII 3)	MCS0	9	-1.11	0.77	30	PASS
155	5775	MCS0	10	10.39	10.927	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	Data Rate	Power set	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	MCS0	11	10.36	10.852	23.98	PASS
58	5290	MCS0	11	10.32	10.752	23.98	PASS
106	5530	MCS0	9	10.38	10.902	23.98	PASS
122	5610	MCS0	9	10.35	10.827	23.98	PASS
138	5690(U-NII 2C)	MCS0	9	10.00	10.01	23.98	PASS
138	5690 (U-NII 3)	MCS0	9	-1.41	0.72	30	PASS
155	5775	MCS0	10	10.30	10.703	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	Data Rate	Power set	Avg. POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
				CH 0	CH 1				
42	5210	MCS0	11	9.74	8.76	13.42	21.994	23.98	PASS
58	5290	MCS0	10	9.47	8.42	13.12	20.521	23.98	PASS
106	5530	MCS0	9	9.43	8.52	13.14	20.626	23.98	PASS
122	5610	MCS0	9	9.41	8.47	13.11	20.468	23.98	PASS
138	5690(U-NII 2C)	MCS0	9	9.18	8.12	12.83	19.182	23.98	PASS
138	5690 (U-NII 3)	MCS0	9	-2.07	-3.30	1.51	1.416	30	PASS
155	5775	MCS0	10	9.51	8.71	13.27	21.251	30	PASS

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9.5.2 ISED Conducted output power and EIRP

802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.16	20.678	23.21	PASS
60	5300	13.23	21.014	23.21	PASS
64	5320	13.21	20.918	23.20	PASS
100	5500	13.38	21.753	23.20	PASS
116	5580	13.34	21.553	23.23	PASS
140	5700	13.29	21.307	23.20	PASS
144	5720(U-NII 2C)	11.88	15.409	22.24	PASS
144	5720 (U-NII 3)	7.33	5.413	30	PASS
149	5745	13.07	20.254	30	PASS
157	5785	13.12	20.489	30	PASS
165	5825	13.43	22.005	30	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.04	20.115	23.25	PASS
60	5300	13.13	20.536	23.18	PASS
64	5320	13.10	20.395	23.19	PASS
100	5500	13.30	21.356	23.19	PASS
116	5580	13.23	21.014	23.19	PASS
140	5700	13.20	20.870	23.18	PASS
144	5720(U-NII 2C)	11.73	14.884	22.23	PASS
144	5720 (U-NII 3)	7.30	5.370	30	PASS
149	5745	13.02	20.022	30	PASS
157	5785	13.05	20.161	30	PASS
165	5825	13.01	19.976	30	PASS

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802.11a_2Tx

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.61	12.2	16.29	42.535	23.21	PASS
60	5300	13.58	12.17	16.26	42.242	23.18	PASS
64	5320	13.63	12.21	16.30	42.690	23.19	PASS
100	5500	13.48	12.31	16.26	42.264	23.19	PASS
116	5580	13.53	12.29	16.28	42.458	23.19	PASS
140	5700	13.51	12.22	16.24	42.055	23.18	PASS
144	5720(U-NII 2C)	12.21254	10.812	14.90	30.894	22.23	PASS
144	5720 (U-NII 3)	7.669092	6.384883	10.40	10.976	30	PASS
149	5745	13.46	12.44	16.31	42.711	30	PASS
157	5785	13.44	12.39	16.27	42.385	30	PASS
165	5825	13.56	12.48	16.38	43.441	30	PASS

802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.30	21.356	23.49	PASS
60	5300	13.27	21.209	23.49	PASS
64	5320	13.33	21.504	23.49	PASS
100	5500	13.39	21.803	23.49	PASS
116	5580	13.36	21.653	23.5	PASS
140	5700	13.32	21.454	23.49	PASS
144	5720(U-NII 2C)	12.06	16.066	22.42	PASS
144	5720 (U-NII 3)	7.62	5.787	30	PASS
149	5745	13.31	21.405	30	PASS
157	5785	13.25	21.111	30	PASS
165	5825	13.43	22.005	30	PASS

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802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.22	20.966	23.48	PASS
60	5300	13.19	20.822	23.5	PASS
64	5320	13.24	21.063	23.49	PASS
100	5500	13.32	21.454	23.6	PASS
116	5580	13.26	21.160	23.49	PASS
140	5700	13.18	20.774	23.49	PASS
144	5720(U-NII 2C)	11.99	15.828	22.41	PASS
144	5720 (U-NII 3)	7.50	5.626	30	PASS
149	5745	13.27	21.209	30	PASS
157	5785	13.17	20.726	30	PASS
165	5825	13.35	21.603	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.54	12.22	16.26	42.222	23.48	PASS
60	5300	13.61	12.36	16.36	43.204	23.49	PASS
64	5320	13.57	12.32	16.32	42.808	23.49	PASS
100	5500	13.64	12.28	16.34	43.038	23.49	PASS
116	5580	13.6	12.43	16.38	43.449	23.49	PASS
140	5700	13.55	12.32	16.30	42.696	23.49	PASS
144	5720(U-NII 2C)	12.13396	10.95913	14.92	31.020	22.41	PASS
144	5720 (U-NII 3)	7.699451	6.467062	10.46	11.110	30	PASS
149	5745	13.44	12.21	16.19	41.628	30	PASS
157	5785	13.49	12.36	16.29	42.532	30	PASS
165	5825	13.21	12.9	16.38	43.483	30	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.29	21.307	23.49	PASS
60	5300	13.21	20.918	23.49	PASS
64	5320	13.23	21.014	23.49	PASS
100	5500	13.37	21.703	23.49	PASS
116	5580	13.31	21.405	23.5	PASS
140	5700	13.28	21.258	23.49	PASS
144	5720(U-NII 2C)	12.01	15.882	22.42	PASS
144	5720 (U-NII 3)	7.57	5.721	30	PASS
149	5745	13.25	21.111	30	PASS
157	5785	13.24	21.063	30	PASS
165	5825	13.41	21.904	30	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
52	5260	13.13	20.536	23.48	PASS
60	5300	13.19	20.822	23.5	PASS
64	5320	13.16	20.678	23.49	PASS
100	5500	13.32	21.454	23.6	PASS
116	5580	13.10	20.395	23.49	PASS
140	5700	13.12	20.489	23.49	PASS
144	5720(U-NII 2C)	12.01	15.901	22.41	PASS
144	5720 (U-NII 3)	7.52	5.652	30	PASS
149	5745	13.15	20.631	30	PASS
157	5785	13.12	20.489	30	PASS
165	5825	13.36	21.653	30	PASS

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802.11ac_VHT20_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
52	5260	13.42	12.09	16.13	41.032	23.48	PASS
60	5300	13.46	12.15	16.18	41.492	23.49	PASS
64	5320	13.41	12.27	16.20	41.714	23.49	PASS
100	5500	13.48	12.56	16.37	43.349	23.49	PASS
116	5580	13.33	12.75	16.38	43.402	23.49	PASS
140	5700	13.27	12.61	16.28	42.442	23.49	PASS
144	5720(U-NII 2C)	11.91396	11.19913	14.90	30.914	22.41	PASS
144	5720 (U-NII 3)	7.479451	6.707062	10.44	11.068	30	PASS
149	5745	13.01	12.58	16.13	40.981	30	PASS
157	5785	13.15	12.49	16.16	41.286	30	PASS
165	5825	13.35	12.47	16.26	42.245	30	PASS

802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.29	16.962	23.98	PASS
62	5310	12.33	17.119	23.98	PASS
102	5510	12.41	17.437	23.98	PASS
110	5550	12.19	16.576	23.98	PASS
134	5670	12.31	17.040	23.98	PASS
142	5710(U-NII 2C)	11.81	15.185	23.98	PASS
142	5710 (U-NII 3)	3.29	2.132	30	PASS
151	5755	12.35	17.198	30	PASS
159	5795	12.42	17.478	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.22	16.691	23.98	PASS
62	5310	12.28	16.923	23.98	PASS
102	5510	12.31	17.040	23.98	PASS
110	5550	12.19	16.576	23.98	PASS
134	5670	12.25	16.807	23.98	PASS
142	5710(U-NII 2C)	11.68	14.721	23.98	PASS
142	5710 (U-NII 3)	3.03	2.009	30	PASS
151	5755	12.29	16.962	30	PASS
159	5795	12.28	16.923	30	PASS

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802.11n_HT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.31	11.32	15.46	35.142	23.98	PASS
62	5310	12.33	11.26	15.44	35.019	23.98	PASS
102	5510	11.92	11.65	15.40	34.691	23.98	PASS
110	5550	11.72	11.55	15.25	33.504	23.98	PASS
134	5670	11.69	11.51	15.22	33.236	23.98	PASS
142	5710(U-NII 2C)	11.13942	11.03453	14.70	29.496	23.98	PASS
142	5710 (U-NII 3)	2.61313	2.384012	6.11	4.084	30	PASS
151	5755	11.62	11.46	15.16	32.778	30	PASS
159	5795	11.64	11.41	15.14	32.671	30	PASS

802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.22	16.691	23.98	PASS
62	5310	12.26	16.845	23.98	PASS
102	5510	12.33	17.119	23.98	PASS
110	5550	12.24	16.768	23.98	PASS
134	5670	12.29	16.962	23.98	PASS
142	5710(U-NII 2C)	11.69	14.771	23.98	PASS
142	5710 (U-NII 3)	3.17	2.074	30	PASS
151	5755	12.15	16.424	30	PASS
159	5795	12.32	17.080	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
54	5270	12.13	16.349	23.98	PASS
62	5310	12.16	16.462	23.98	PASS
102	5510	12.21	16.653	23.98	PASS
110	5550	12.11	16.273	23.98	PASS
134	5670	12.13	16.349	23.98	PASS
142	5710(U-NII 2C)	11.60	14.452	23.98	PASS
142	5710 (U-NII 3)	2.95	1.972	30	PASS
151	5755	12.15	16.424	30	PASS
159	5795	12.22	16.691	30	PASS

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802.11ac_VHT40_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
54	5270	12.59	10.85	15.42	34.847	23.98	PASS
62	5310	12.57	10.86	15.41	34.783	23.98	PASS
102	5510	11.77	11.42	15.21	33.217	23.98	PASS
110	5550	11.74	11.33	15.15	32.771	23.98	PASS
134	5670	11.73	11.37	15.17	32.876	23.98	PASS
142	5710(U-NII 2C)	11.23942	10.88453	14.68	29.349	23.98	PASS
142	5710 (U-NII 3)	2.71313	2.234012	6.09	4.065	30	PASS
151	5755	11.9	11.73	15.43	34.922	30	PASS
159	5795	11.88	11.62	15.37	34.412	30	PASS

802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.35	10.827	23.98	PASS
106	5530	10.44	11.054	23.98	PASS
122	5610	10.39	10.927	23.98	PASS
138	5690(U-NII 2C)	10.13	10.305	23.98	PASS
138	5690 (U-NII 3)	-1.11	0.774	30	PASS
155	5775	10.39	10.927	30	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
58	5290	10.32	10.752	23.98	PASS
106	5530	10.38	10.902	23.98	PASS
122	5610	10.35	10.827	23.98	PASS
138	5690(U-NII 2C)	10.00	10.006	23.98	PASS
138	5690 (U-NII 3)	-1.41	0.722	30	PASS
155	5775	10.30	10.703	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	AVERAGE POWER (dBm)		TOTAL POWER (dBm)	TOTAL POWER (mW)	REQUIRED LIMIT (dBm)	RESULT
		CH 0	CH 1				
58	5290	9.47	8.42	13.12	20.521	23.98	PASS
106	5530	9.43	8.52	13.14	20.626	23.98	PASS
122	5610	9.41	8.47	13.11	20.468	23.98	PASS
138	5690(U-NII 2C)	9.175455	8.117356	12.83	19.182	23.98	PASS
138	5690 (U-NII 3)	-2.06734	-3.29897	1.51	1.416	30	PASS
155	5775	9.51	8.71	13.27	21.251	30	PASS

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802.11a_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.06	1.97	15.03	31.807	22.2	PASS
44	5220	13.20	1.97	15.17	32.849	22.2	PASS
48	5240	13.14	1.97	15.11	32.398	22.18	PASS
52	5260	13.16	1.25	14.41	27.575	29.21	PASS
60	5300	13.23	1.25	14.48	28.023	29.21	PASS
64	5320	13.21	1.25	14.46	27.894	29.2	PASS
100	5500	13.38	1.31	14.69	29.411	29.2	PASS
116	5580	13.34	1.31	14.65	29.142	29.23	PASS
140	5700	13.29	1.31	14.60	28.808	29.2	PASS

802.11a_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.03	0.560	13.59	22.831	23.01	PASS
44	5220	13.16	0.560	13.72	23.524	23.01	PASS
48	5240	13.09	0.560	13.65	23.148	23.01	PASS
52	5260	13.04	-0.100	12.94	19.657	30	PASS
60	5300	13.13	-0.100	13.03	20.069	30	PASS
64	5320	13.10	-0.100	13.00	19.930	30	PASS
100	5500	13.30	-0.700	12.60	18.177	30	PASS
116	5580	13.23	-0.700	12.53	17.886	30	PASS
140	5700	13.20	-0.700	12.50	17.763	30	PASS

802.11a_2TX

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.25	4.30	20.55	113.393	22.2	PASS
44	5220	16.20	4.30	20.50	112.203	22.2	PASS
48	5240	16.15	4.30	20.45	110.959	22.18	PASS
52	5260	16.29	3.61	19.90	97.666	30	PASS
60	5300	16.26	3.61	19.87	96.994	30	PASS
64	5320	16.30	3.61	19.91	98.022	30	PASS
100	5500	16.26	3.37	19.63	91.828	29.19	PASS
116	5580	16.28	3.37	19.65	92.248	30	PASS
140	5700	16.24	3.37	19.61	91.373	30	PASS

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802.11n_HT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.38	1.97	15.35	34.239	22.49	PASS
44	5220	13.33	1.97	15.30	33.847	22.48	PASS
48	5240	13.35	1.97	15.32	34.003	22.48	PASS
52	5260	13.30	1.25	14.55	28.478	29.49	PASS
60	5300	13.27	1.25	14.52	28.282	29.49	PASS
64	5320	13.33	1.25	14.58	28.676	29.49	PASS
100	5500	13.39	1.31	14.70	29.479	29.49	PASS
116	5580	13.36	1.31	14.67	29.276	29.5	PASS
140	5700	13.32	1.31	14.63	29.008	29.49	PASS

802.11n_HT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	12.25	0.560	12.81	19.077	23.01	PASS
44	5220	13.22	0.560	13.78	23.852	23.01	PASS
48	5240	13.26	0.560	13.82	24.072	23.01	PASS
52	5260	13.22	-0.100	13.12	20.489	30	PASS
60	5300	13.19	-0.100	13.09	20.348	30	PASS
64	5320	13.24	-0.100	13.14	20.583	30	PASS
100	5500	13.32	-0.700	12.62	18.261	30	PASS
116	5580	13.26	-0.700	12.56	18.010	30	PASS
140	5700	13.18	-0.700	12.48	17.681	30	PASS

802.11n_HT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.37	4.30	20.67	116.640	22.49	PASS
44	5220	16.42	4.30	20.72	117.982	22.48	PASS
48	5240	16.43	4.30	20.73	118.191	22.48	PASS
52	5260	16.26	3.61	19.87	96.949	29.48	PASS
60	5300	16.36	3.61	19.97	99.204	29.49	PASS
64	5320	16.32	3.61	19.93	98.294	29.49	PASS
100	5500	16.34	3.37	19.71	93.508	29.49	PASS
116	5580	16.38	3.37	19.75	94.401	29.49	PASS
140	5700	16.30	3.37	19.67	92.766	29.49	PASS

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802.11ac_VHT20_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.20	1.97	15.17	32.849	22.49	PASS
44	5220	13.25	1.97	15.22	33.229	22.48	PASS
48	5240	13.31	1.97	15.28	33.691	22.48	PASS
52	5260	13.29	1.25	14.54	28.413	29.49	PASS
60	5300	13.21	1.25	14.46	27.894	29.49	PASS
64	5320	13.23	1.25	14.48	28.023	29.49	PASS
100	5500	13.37	1.31	14.68	29.344	29.49	PASS
116	5580	13.31	1.31	14.62	28.941	29.5	PASS
140	5700	13.28	1.31	14.59	28.742	29.49	PASS

802.11ac_VHT20_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	13.13	0.560	13.69	23.362	23.01	PASS
44	5220	13.19	0.560	13.75	23.687	23.01	PASS
48	5240	13.23	0.560	13.79	23.907	23.01	PASS
52	5260	13.13	-0.100	13.03	20.069	30	PASS
60	5300	13.19	-0.100	13.09	20.348	30	PASS
64	5320	13.16	-0.100	13.06	20.208	30	PASS
100	5500	13.32	-0.700	12.62	18.261	30	PASS
116	5580	13.10	-0.700	12.40	17.359	30	PASS
140	5700	13.12	-0.700	12.42	17.439	30	PASS

802.11ac_VHT20_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
36	5180	16.26	4.30	20.56	113.819	22.49	PASS
44	5220	16.31	4.30	20.61	115.155	22.48	PASS
48	5240	16.41	4.30	20.71	117.893	22.48	PASS
52	5260	16.13	3.61	19.74	94.215	29.48	PASS
60	5300	16.18	3.61	19.79	95.273	29.49	PASS
64	5320	16.20	3.61	19.81	95.780	29.49	PASS
100	5500	16.37	3.37	19.74	94.184	29.49	PASS
116	5580	16.38	3.37	19.75	94.301	29.49	PASS
140	5700	16.28	3.37	19.65	92.215	29.49	PASS

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802.11n_HT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.37	1.97	14.34	27.194	23.01	PASS
46	5230	12.39	1.97	14.36	27.320	23.01	PASS
54	5270	12.29	1.25	13.54	22.619	30	PASS
62	5310	12.33	1.25	13.58	22.829	30	PASS
102	5510	12.41	1.31	13.72	23.577	30	PASS
110	5550	12.19	1.31	13.50	22.412	30	PASS
134	5670	12.31	1.31	13.62	23.040	30	PASS

802.11n_HT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.24	0.560	12.80	19.076	23.01	PASS
46	5230	12.26	0.560	12.82	19.164	23.01	PASS
54	5270	12.22	-0.100	12.12	16.311	30	PASS
62	5310	12.28	-0.100	12.18	16.538	30	PASS
102	5510	12.31	-0.700	11.61	14.504	30	PASS
110	5550	12.19	-0.700	11.49	14.108	30	PASS
134	5670	12.25	-0.700	11.55	14.305	30	PASS

802.11n_HT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.24	4.30	19.54	89.854	23.01	PASS
46	5230	15.22	4.30	19.52	89.460	23.01	PASS
54	5270	15.46	3.61	19.07	80.691	30	PASS
62	5310	15.44	3.61	19.05	80.408	30	PASS
102	5510	15.40	3.37	18.77	75.374	30	PASS
110	5550	15.25	3.37	18.62	72.794	30	PASS
134	5670	15.22	3.37	18.59	72.211	30	PASS

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802.11ac_VHT40_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.28	1.97	14.25	26.637	23.01	PASS
46	5230	12.29	1.97	14.26	26.698	23.01	PASS
54	5270	12.22	1.25	13.47	22.258	30	PASS
62	5310	12.26	1.25	13.51	22.464	30	PASS
102	5510	12.33	1.31	13.64	23.146	30	PASS
110	5550	12.24	1.31	13.55	22.672	30	PASS
134	5670	12.29	1.31	13.60	22.934	30	PASS

802.11ac_VHT40_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	12.18	0.560	12.74	18.814	23.01	PASS
46	5230	12.24	0.560	12.80	19.076	23.01	PASS
54	5270	12.13	-0.100	12.03	15.976	30	PASS
62	5310	12.16	-0.100	12.06	16.087	30	PASS
102	5510	12.21	-0.700	11.51	14.174	30	PASS
110	5550	12.11	-0.700	11.41	13.851	30	PASS
134	5670	12.13	-0.700	11.43	13.915	30	PASS

802.11ac_VHT40_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
38	5190	15.25	4.30	19.55	90.233	23.01	PASS
46	5230	15.24	4.30	19.54	89.964	23.01	PASS
54	5270	15.42	3.61	19.03	80.014	30	PASS
62	5310	15.41	3.61	19.02	79.868	30	PASS
102	5510	15.21	3.37	18.58	72.171	30	PASS
110	5550	15.15	3.37	18.52	71.202	30	PASS
134	5670	15.17	3.37	18.54	71.430	30	PASS

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802.11ac_VHT80_Ch0

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.39	1.97	12.36	17.199	23.01	PASS
58	5290	10.35	1.25	11.60	14.438	30	PASS
106	5530	10.44	1.31	11.75	14.945	17	PASS

802.11ac_VHT80_Ch1

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	10.36	0.560	10.92	12.346	23.01	PASS
58	5290	10.32	-0.100	10.22	10.508	30	PASS
106	5530	10.38	-0.700	9.68	9.279	30	PASS

802.11ac_VHT80_MIMO

CH	Frequency (MHz)	TOTAL POWER (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP (mW)	REQUIRED LIMIT (dBm)	RESULT
42	5210	13.42	4.30	17.72	59.197	23.01	PASS
58	5290	13.12	3.61	16.73	47.120	30	PASS
106	5530	13.14	3.37	16.51	44.814	30	PASS

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10 MAXIMUM POWER SPECTRAL DENSITY

10.1 Standard Applicable

FCC

Operation Band	EUT CATEGORY		LIMIT	Antenna Directional Gain Requirements
U-NII-1	☐	Outdoor Access Point (Master)	1. 17dBm/ MHz 2. EIRP<=125mW(21dBm) at any elevation angle > 30°	6dBi
	☐	Indoor Access Point (Master)	17dBm/ MHz	6dBi
	☐	Fixed point-to-point Access Point	17dBm/ MHz	23dBi
	☒	Client device	11dBm/ MHz	6dBi
U-NII-2A	All		11dBm/ MHz	6dBi
U-NII-2C	All		11dBm/ MHz	6dBi
U-NII-3	All		30dBm/ 500kHz	6dBi

If transmitting antennas of directional gain greater than the Antenna Directional Gain Requirements column, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

ISED

FREQUENCY BAND (MHz)	EUT CATEGORY		RSS-247 §6.2.1~6.2.4	
			EIRP Density	Power Density
5150~5250	☐	OEM devices installed in vehicles	N/A	N/A
	☒	Other device	10 dBm/MHz	N/A
5250~5350	☐	OEM devices installed in vehicles	N/A	N/A
	☒	Other device	N/A	11 dBm/MHz
5470-5600 and 5650-5725	All			11 dBm/MHz
5725~5850	All		N/A	30 dBm/500kHz

For equipment operating in the band 5725-5850 MHz, If transmitting antennas of directional gain greater than 6 dBi are used, the Maximum transmit power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note:

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

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

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

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

$g_{j,k}$ = / 20 10Gk 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.

10.2 Measurement Procedure

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
4. For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (1001 pts), Detector = power averaging (rms), if available. Otherwise, use sample detector mode, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=300kHz, VBW=1MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto, detector = RMS or sample, traces 100 sweeps of video averaging.
In addition, measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result.
5. Use the cursor on spectrum to peak search the highest level of trace
6. Record the max. reading and add 10 log(1/duty cycle).
7. Repeat above procedures until all default test channel (low, middle, and high) was complete.
8. MIMO mode: offset is set following "measure and add 10 Log (N)" on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note: For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

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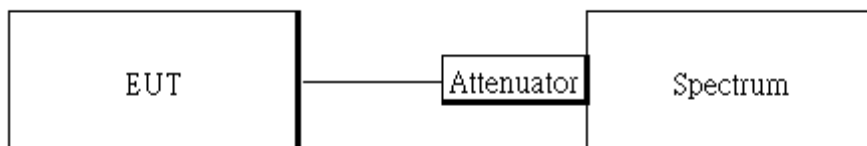
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10.3 Measurement Equipment Used

Conducted Emission Test Site: Conducted D					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010B	MY59071574	06/25/2021	06/25/2022
Power Meter	Anritsu	ML2496A	1804002	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726105	04/14/2021	04/13/2022
Power Sensor	Anritsu	MA2411B	1726106	04/14/2021	04/13/2022
Attenuator	Marvelous	MVE2213-10	RF12	11/19/2020	11/18/2021
Attenuator	Marvelous	WATT-218FS-10	RF16	11/19/2020	11/18/2021
DC Block	PASTER-NACK	PE8210	RF158	11/19/2020	11/18/2021
Coaxial Cables	Woken	00100A1F2A196C	RF57	11/19/2020	11/18/2021
Test Software	SGS	Radio Test Software	V21.07.28	N/A	N/A

10.4 Test Set-up



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10.5 Measurement Result

POWER DENSITY 802.11a MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	1.92	0.54	0.32	4.61		11.00 dBm/MHz	-6.39
5220	1.91	0.65	0.32	4.65		11.00 dBm/MHz	-6.35
5240	1.88	0.98	0.32	4.79		11.00 dBm/MHz	-6.21
5260	0.54	0.59	0.32	3.89		11.00 dBm/MHz	-7.11
5300	0.29	0.36	0.32	3.65		11.00 dBm/MHz	-7.35
5320	1.96	0.62	0.32	4.67		11.00 dBm/MHz	-6.33
5500	1.86	0.86	0.32	4.72		11.00 dBm/MHz	-6.28
5580	1.45	1.70	0.32	4.90		11.00 dBm/MHz	-6.10
5700	0.45	0.74	0.32	3.93		11.00 dBm/MHz	-7.07
5720 (U-NII 2C)	0.39	1.02	0.32	4.05		11.00 dBm/MHz	-6.95
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD (dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-6.84	-6.71	0.32	2.22	-1.22	30.00 dBm/500kHz	-31.22
5745	-3.62	-3.14	0.32	2.22	2.18	30.00 dBm/500kHz	-27.82
5785	-2.83	-3.32	0.32	2.22	2.48	30.00 dBm/500kHz	-27.52
5825	-4.99	-4.43	0.32	2.22	0.85	30.00 dBm/500kHz	-29.15

POWER DENSITY 802.11n HT20 MODE							
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit	Margin (dB)
5180	0.71	0.65	0.32	4.01		11.00 dBm/MHz	-6.99
5220	0.55	-0.08	0.32	3.58		11.00 dBm/MHz	-7.42
5240	-0.30	0.91	0.32	3.68		11.00 dBm/MHz	-7.32
5260	-0.64	-0.21	0.32	2.91		11.00 dBm/MHz	-8.09
5300	-0.18	0.29	0.32	3.39		11.00 dBm/MHz	-7.61
5320	0.32	0.64	0.32	3.81		11.00 dBm/MHz	-7.19
5500	2.14	1.59	0.32	5.20		11.00 dBm/MHz	-5.80
5580	2.03	1.67	0.32	5.18		11.00 dBm/MHz	-5.82
5700	1.33	1.58	0.32	4.79		11.00 dBm/MHz	-6.21
5720 (U-NII 2C)	1.49	1.25	0.32	4.70		11.00 dBm/MHz	-6.30
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit	Margin (dB)
5720 (U-NII 3)	-5.52	-5.84	0.32	2.22	-0.13	30.00 dBm/500kHz	-30.13
5745	-4.02	-4.00	0.32	2.22	1.54	30.00 dBm/500kHz	-28.46
5785	-4.35	-3.97	0.32	2.22	1.40	30.00 dBm/500kHz	-28.60
5825	-4.22	-5.80	0.32	2.22	0.61	30.00 dBm/500kHz	-29.39

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POWER DENSITY 802.11n HT40 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit
5190	-3.21	-4.79	0.60	-0.32		11.00 dBm/MHz
5230	-2.90	-5.94	0.60	-0.55		11.00 dBm/MHz
5270	-2.02	-2.94	0.60	1.15		11.00 dBm/MHz
5310	-3.38	-5.19	0.60	-0.58		11.00 dBm/MHz
5510	-2.41	-2.90	0.60	0.96		11.00 dBm/MHz
5550	-3.03	-3.27	0.60	0.46		11.00 dBm/MHz
5670	-3.18	-3.09	0.60	0.47		11.00 dBm/MHz
5710 (U-NII 2C)	-2.92	-3.08	0.60	0.61		11.00 dBm/MHz
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit
5710 (U-NII 3)	-7.97	-9.17	0.60	2.22	-2.70	30.00 dBm/500kHz
5755	-8.61	-8.19	0.60	2.22	-2.57	30.00 dBm/500kHz
5795	-8.60	-8.13	0.60	2.22	-2.52	30.00 dBm/500kHz

POWER DENSITY 802.11ac VHT80 MODE						
Frequency (MHz)	ch0 meas PSD (dBm/MHz)	ch1 meas PSD (dBm/MHz)	Duty Factor (dB)	Total Corr'd PSD(dBm/MHz)		Limit
5210	-7.41	-9.00	1.14	-3.98		11.00 dBm/MHz
5290	-8.10	-9.68	1.14	-4.67		11.00 dBm/MHz
5530	-7.89	-10.06	1.14	-4.69		11.00 dBm/MHz
5610	-8.46	-8.65	1.14	-4.40		11.00 dBm/MHz
5690 (U-NII 2C)	-8.59	-8.73	1.14	-4.51		11.00 dBm/MHz
Frequency (MHz)	ch0 meas PSD (dBm/300kHz)	ch1 meas PSD (dBm/300kHz)	Duty Factor (dB)	10log (500kHz/RBW) Factor(dB)	Total Corr'd PSD(dBm/500kHz)	Limit
5690 (U-NII 3)	-14.50	-14.55	1.14	2.22	-8.15	30.00 dBm/500kHz
5775	-13.65	-13.86	1.14	2.22	-7.38	30.00 dBm/500kHz

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EIRP spectral density 802.11a MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP PSD (dBm)	Limit (dBm)	Margin (dB)
5180	4.61	4.30	8.91	10	-1.09
5220	4.65	4.30	8.95	10	-1.05
5240	4.79	4.30	9.09	10	-0.91
EIRP spectral density 802.11n HT20 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5180	4.01	4.30	8.31	10	-1.69
5220	3.58	4.30	7.88	10	-2.12
5240	3.68	4.30	7.98	10	-2.02
EIRP spectral density 802.11n HT40 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5190	-0.32	4.30	3.98	10	-6.02
5230	-0.55	4.30	3.75	10	-6.25
EIRP spectral density 802.11ac VHT80 MODE					
Freq. (MHz)	PSD (dBm)	Ant. Gain (dBi)	EIRP SD (dBm)	Limit (dBm)	Margin (dB)
5210	-3.98	4.30	0.32	10	-9.68

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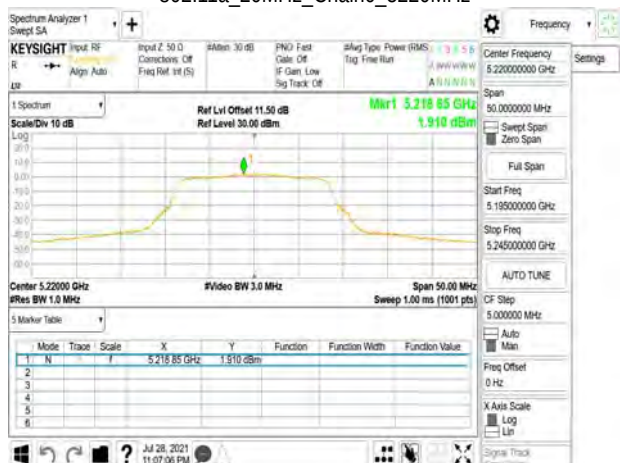
802.11a_20MHz_Chain0_5180MHz



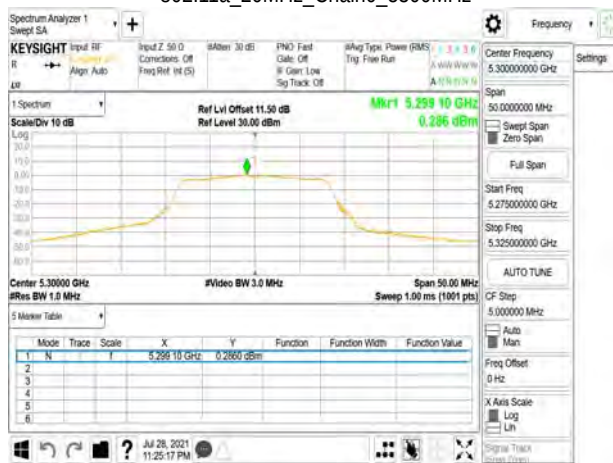
802.11a_20MHz_Chain0_5260MHz



802.11a_20MHz_Chain0_5220MHz



802.11a_20MHz_Chain0_5300MHz



802.11a_20MHz_Chain0_5240MHz



802.11a_20MHz_Chain0_5320MHz



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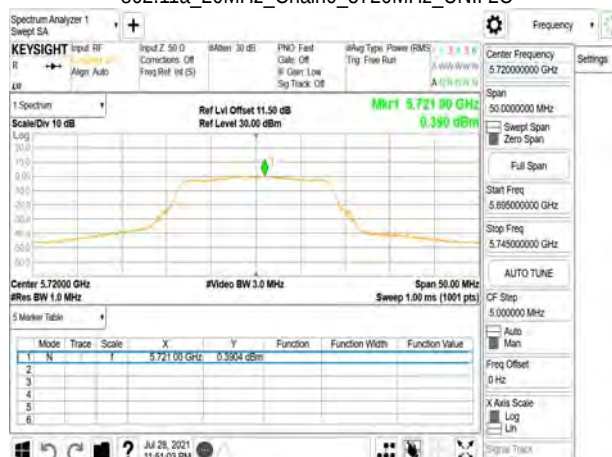
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802.11a_20MHz_Chain0_5500MHz



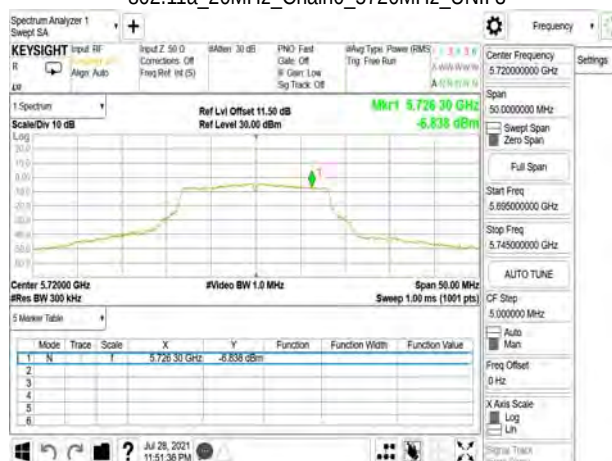
802.11a_20MHz_Chain0_5720MHz_UNII 2C



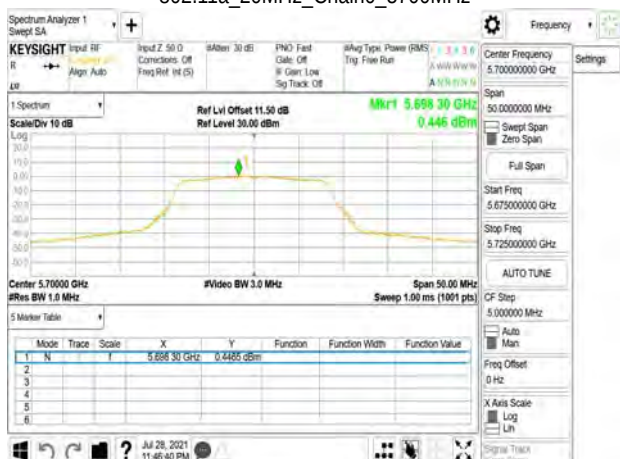
802.11a_20MHz_Chain0_5580MHz



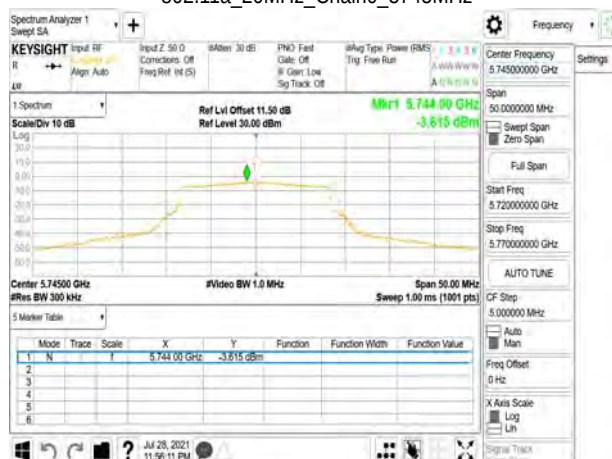
802.11a_20MHz_Chain0_5720MHz_UNII 3



802.11a_20MHz_Chain0_5700MHz



802.11a_20MHz_Chain0_5745MHz



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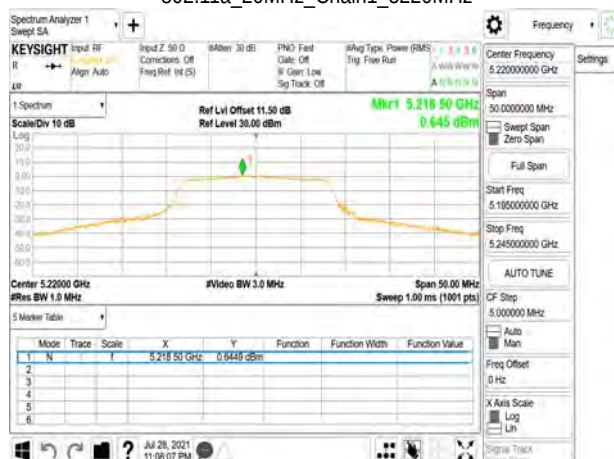
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802.11a_20MHz_Chain0_5785MHz



802.11a_20MHz_Chain1_5220MHz



802.11a_20MHz_Chain0_5825MHz



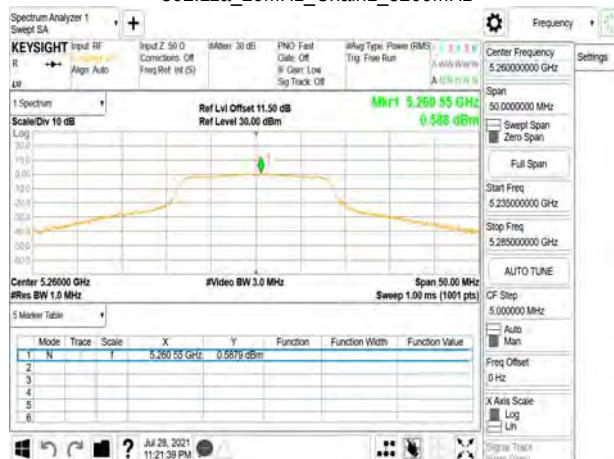
802.11a_20MHz_Chain1_5240MHz



802.11a_20MHz_Chain1_5180MHz



802.11a_20MHz_Chain1_5260MHz

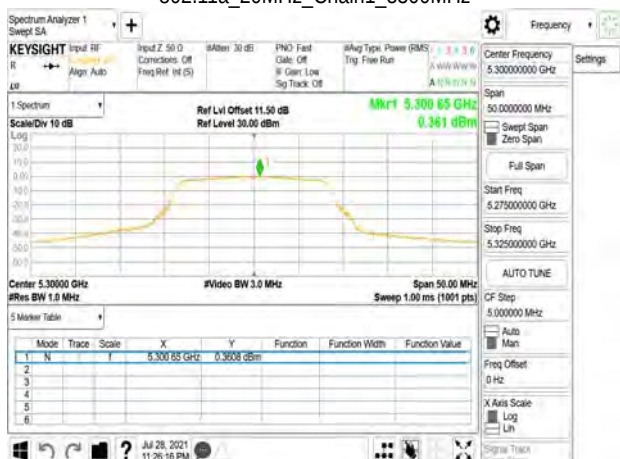


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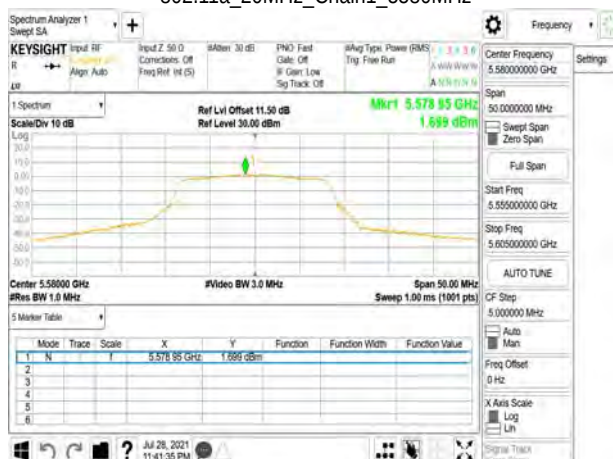
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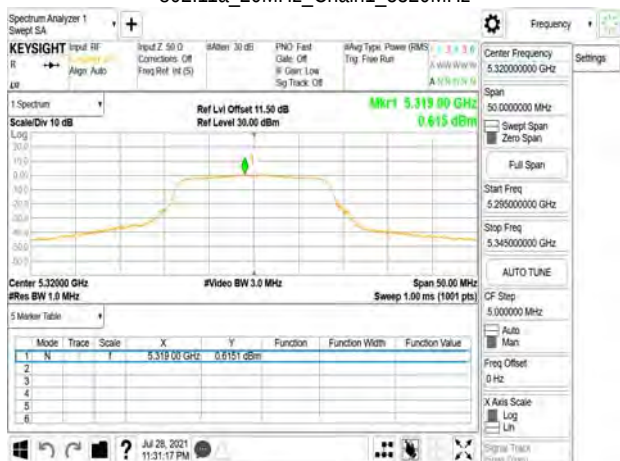
802.11a_20MHz_Chain1_5300MHz



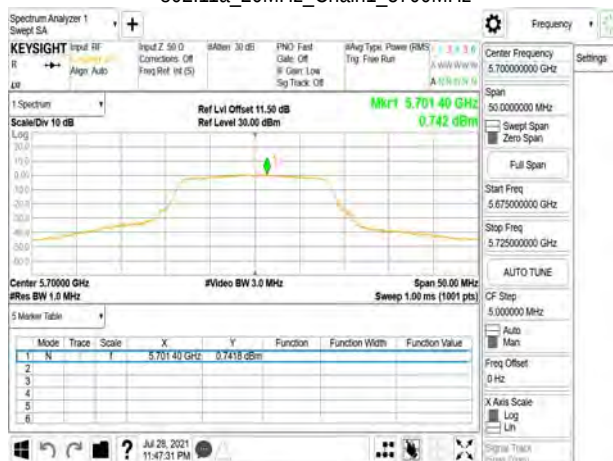
802.11a_20MHz_Chain1_5580MHz



802.11a_20MHz_Chain1_5320MHz



802.11a_20MHz_Chain1_5700MHz



802.11a_20MHz_Chain1_5500MHz



802.11a_20MHz_Chain1_5720MHz_UNII 2C



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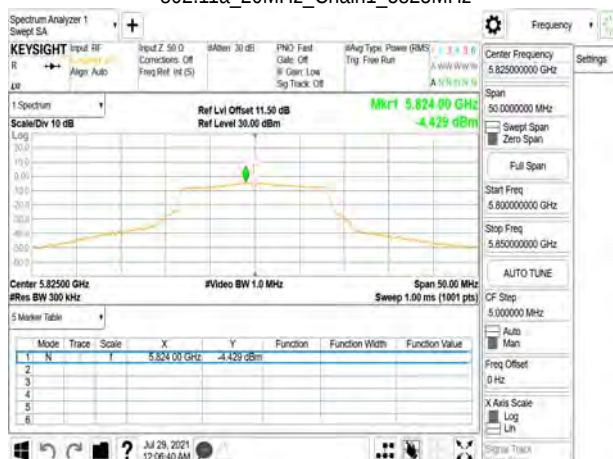
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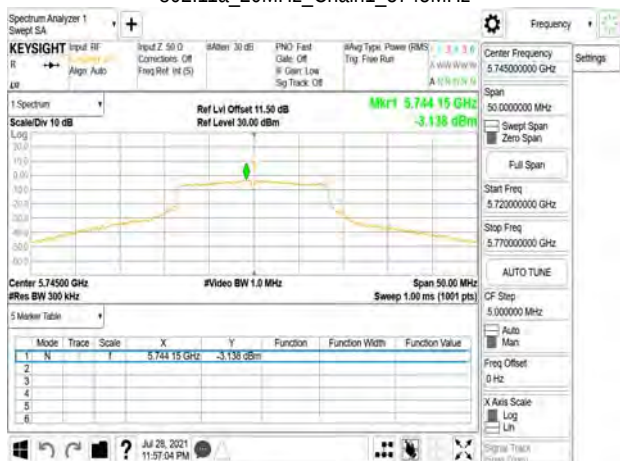
802.11a_20MHz_Chain1_5720MHz_UNI3



802.11a_20MHz_Chain1_5825MHz



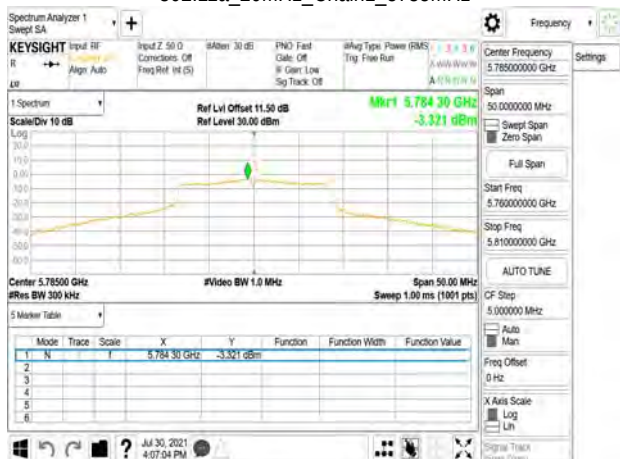
802.11a_20MHz_Chain1_5745MHz



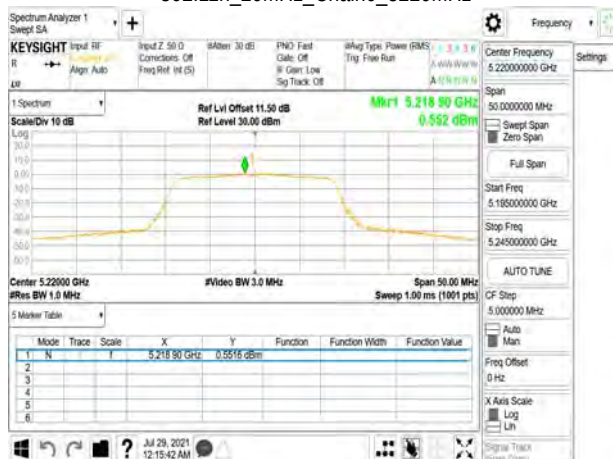
802.11n_20MHz_Chain0_5180MHz



802.11a_20MHz_Chain1_5785MHz



802.11n_20MHz_Chain0_5220MHz



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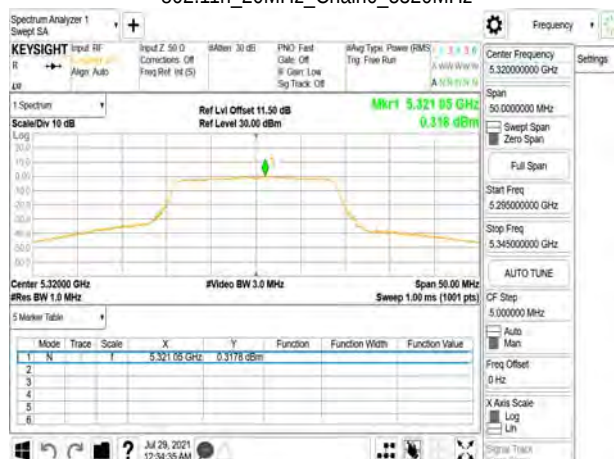
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802.11n_20MHz_Chain0_5240MHz



802.11n_20MHz_Chain0_5320MHz



802.11n_20MHz_Chain0_5260MHz



802.11n_20MHz_Chain0_5500MHz



802.11n_20MHz_Chain0_5300MHz



802.11n_20MHz_Chain0_5580MHz



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802.11n_20MHz_Chain0_5700MHz



802.11n_20MHz_Chain0_5745MHz



802.11n_20MHz_Chain0_5720MHz_UNII 2C



802.11n_20MHz_Chain0_5785MHz



802.11n_20MHz_Chain0_5720MHz_UNII 3



802.11n_20MHz_Chain0_5825MHz

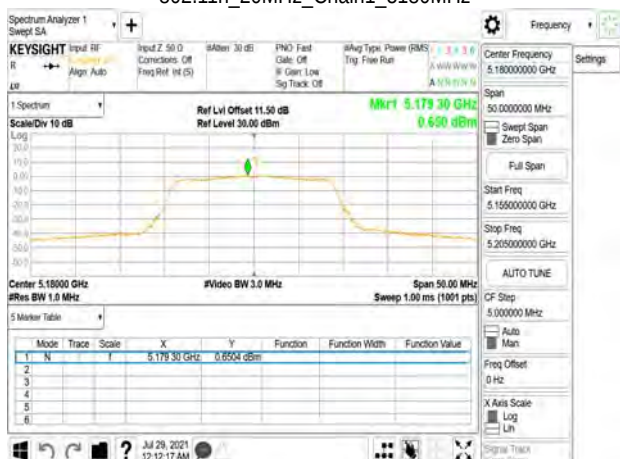


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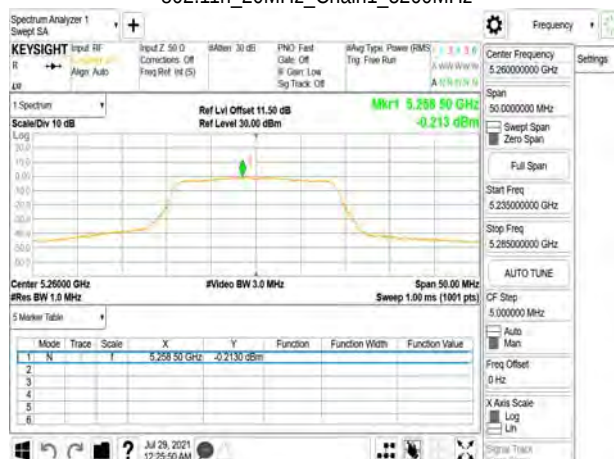
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802.11n_20MHz_Chain1_5180MHz



802.11n_20MHz_Chain1_5260MHz



802.11n_20MHz_Chain1_5220MHz



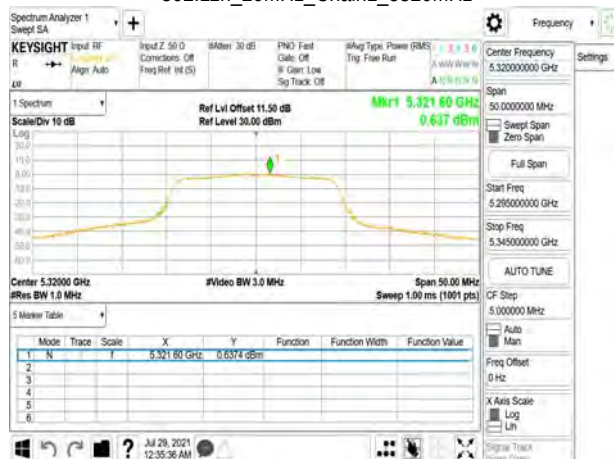
802.11n_20MHz_Chain1_5300MHz



802.11n_20MHz_Chain1_5240MHz



802.11n_20MHz_Chain1_5320MHz



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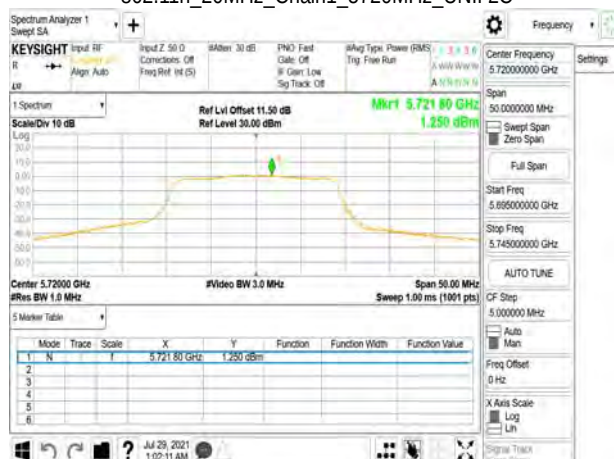
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802.11n_20MHz_Chain1_5500MHz



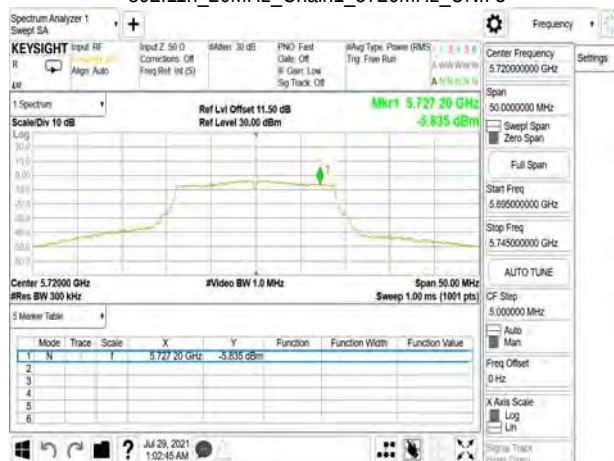
802.11n_20MHz_Chain1_5720MHz_UNII 2C



802.11n_20MHz_Chain1_5580MHz



802.11n_20MHz_Chain1_5720MHz_UNII 3



802.11n_20MHz_Chain1_5700MHz



802.11n_20MHz_Chain1_5745MHz

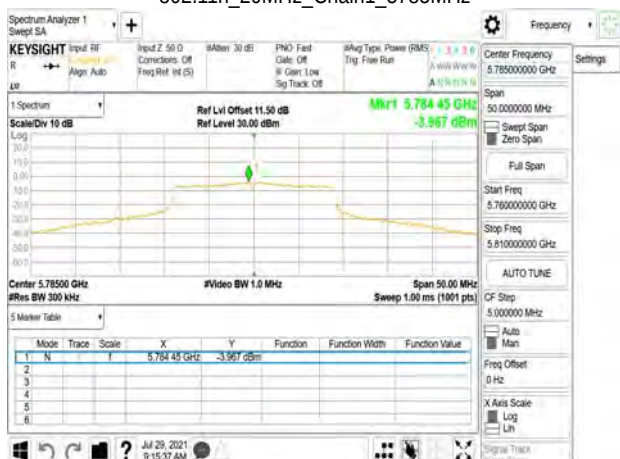


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802.11n_20MHz_Chain1_5785MHz



802.11n_40MHz_Chain0_5230MHz



802.11n_20MHz_Chain1_5825MHz



802.11n_40MHz_Chain0_5270MHz



802.11n_40MHz_Chain0_5190MHz



802.11n_40MHz_Chain0_5310MHz



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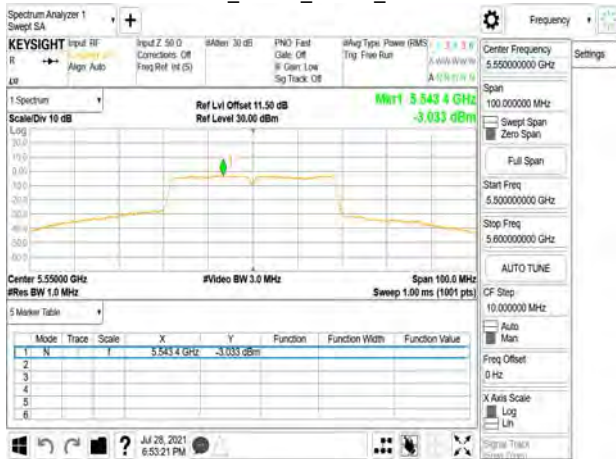
802.11n_40MHz_Chain0_5510MHz



802.11n_40MHz_Chain0_5710MHz_UNII 2C



802.11n_40MHz_Chain0_5550MHz



802.11n_40MHz_Chain0_5710MHz_UNII 3



802.11n_40MHz_Chain0_5670MHz



802.11n_40MHz_Chain0_5755MHz

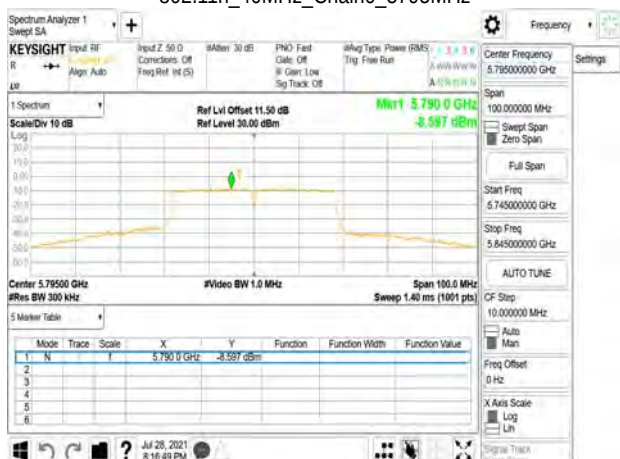


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802.11n_40MHz_Chain0_5795MHz



802.11n_40MHz_Chain1_5270MHz



802.11n_40MHz_Chain1_5190MHz



802.11n_40MHz_Chain1_5310MHz



802.11n_40MHz_Chain1_5230MHz



802.11n_40MHz_Chain1_5510MHz

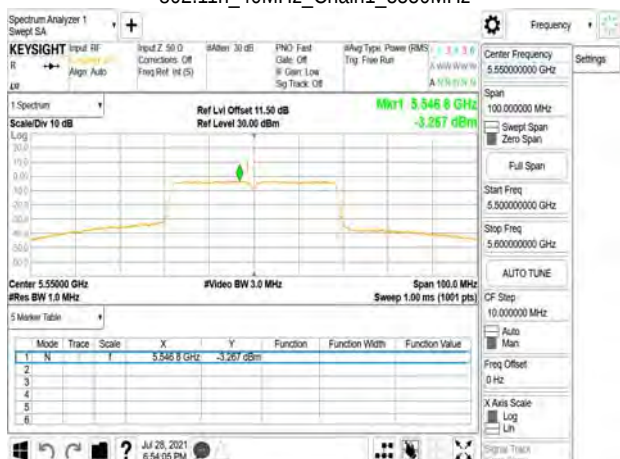


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802.11n_40MHz_Chain1_5550MHz



802.11n_40MHz_Chain1_5710MHz_UNII 3



802.11n_40MHz_Chain1_5670MHz



802.11n_40MHz_Chain1_5755MHz



802.11n_40MHz_Chain1_5710MHz_UNII 2C



802.11n_40MHz_Chain1_5795MHz



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802.11ac_80MHz_Chain0_5210MHz



802.11ac_80MHz_Chain0_5610MHz



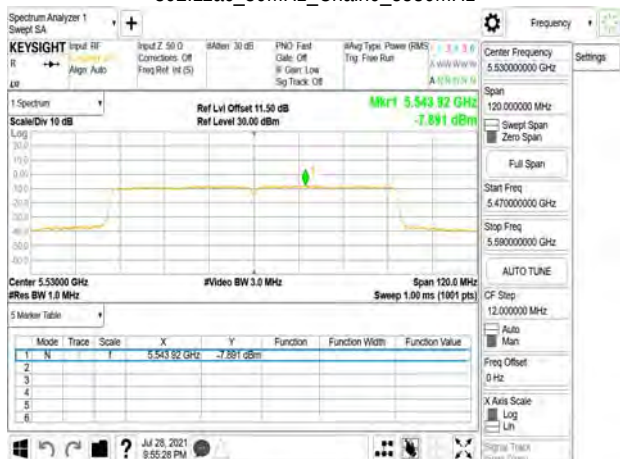
802.11ac_80MHz_Chain0_5290MHz



802.11ac_80MHz_Chain0_5690MHz_UNII 2C



802.11ac_80MHz_Chain0_5530MHz



802.11ac_80MHz_Chain0_5690MHz_UNII 3

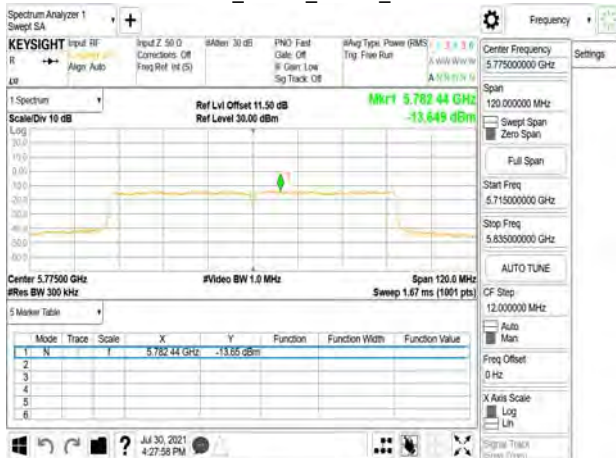


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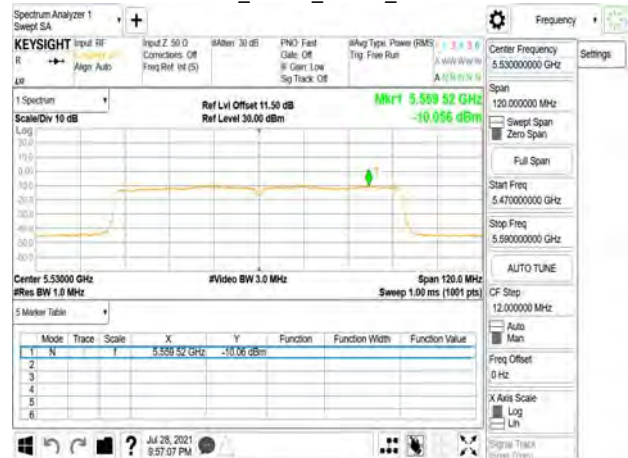
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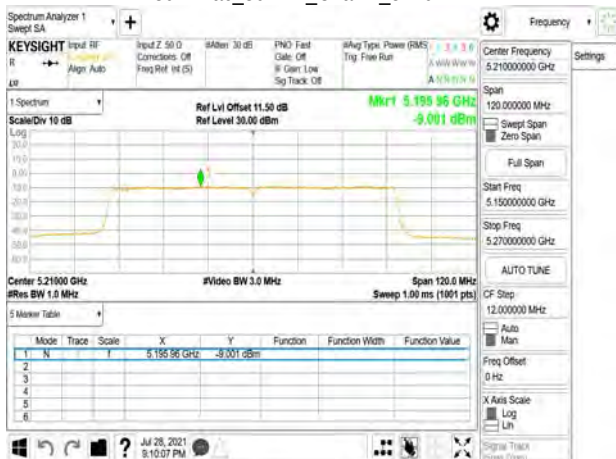
802.11ac_80MHz_Chain0_5775MHz



802.11ac_80MHz_Chain1_5530MHz



802.11ac_80MHz_Chain1_5210MHz



802.11ac_80MHz_Chain1_5610MHz



802.11ac_80MHz_Chain1_5290MHz



802.11ac_80MHz_Chain1_5690MHz_UNII 2C



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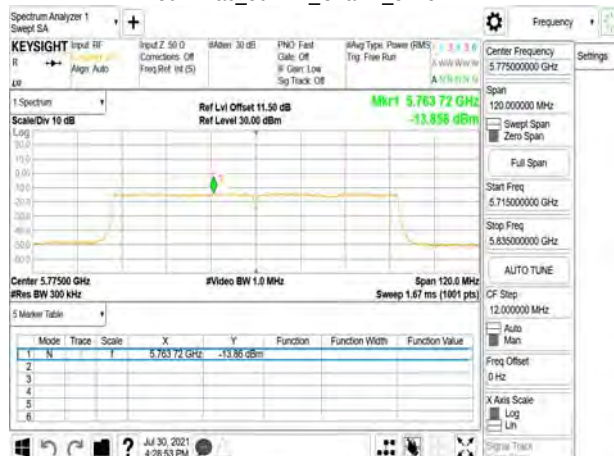
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802.11ac_80MHz_Chain1_5690MHz_UNII 3



802.11ac_80MHz_Chain1_5775MHz



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11 UNDESIRABLE RADIATED EMISSION MEASUREMENT

11.1 Standard Applicable

11.1.1 Band Edge

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

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

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

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

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11.1.2 Spurious Emission

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

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

Note:

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

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11.2 Measurement Equipment Used

Radiated Emission Test Site: SAC C					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Broadband Antenna	TESEQ	CBL 6112D	35240	09/08/2020	09/07/2021
Horn Antenna	Schwarzbeck	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	Schwarzbeck	BBHA9120D	1187	01/11/2021	01/10/2022
Loop Antenna	ETS.LIND-GREN	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	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC0011830	980199	11/19/2020	11/18/2021
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2020	10/26/2021
Attenuator	Marvelous	WATT-218FS-10	RF20	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G015	RF198	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G016	RF199	11/19/2020	11/18/2021
Band Rejection Filter	Micro-Tronics	G021	RF200	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	MY17388/4	11/19/2020	11/18/2021
Coaxial Cable	Huber Suhner	RG 214/U	W22.03	11/19/2020	11/18/2021
Test Software	audix	e3	20923 sgs Ver.9	N.C.R	N.C.R
Notebook	Lenovo	L440	P0000367	N/A	N/A

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

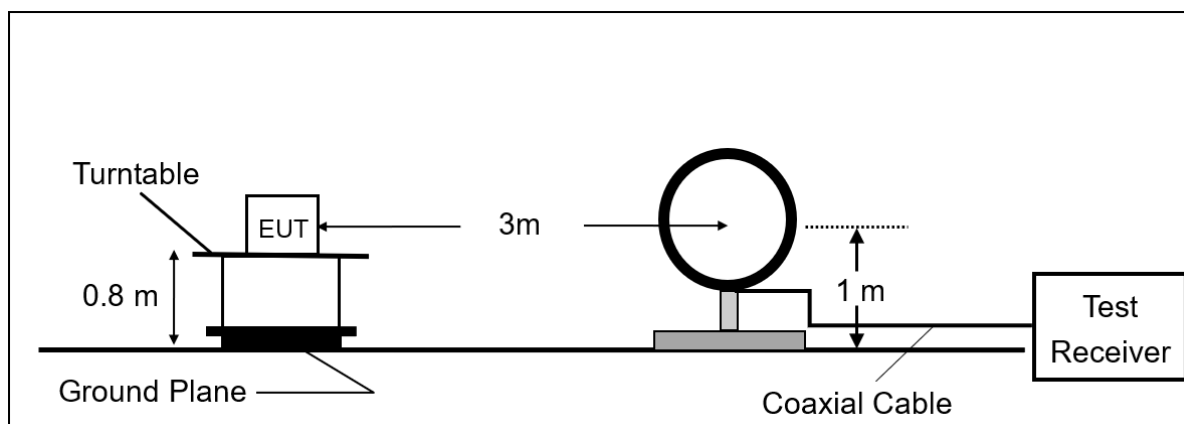
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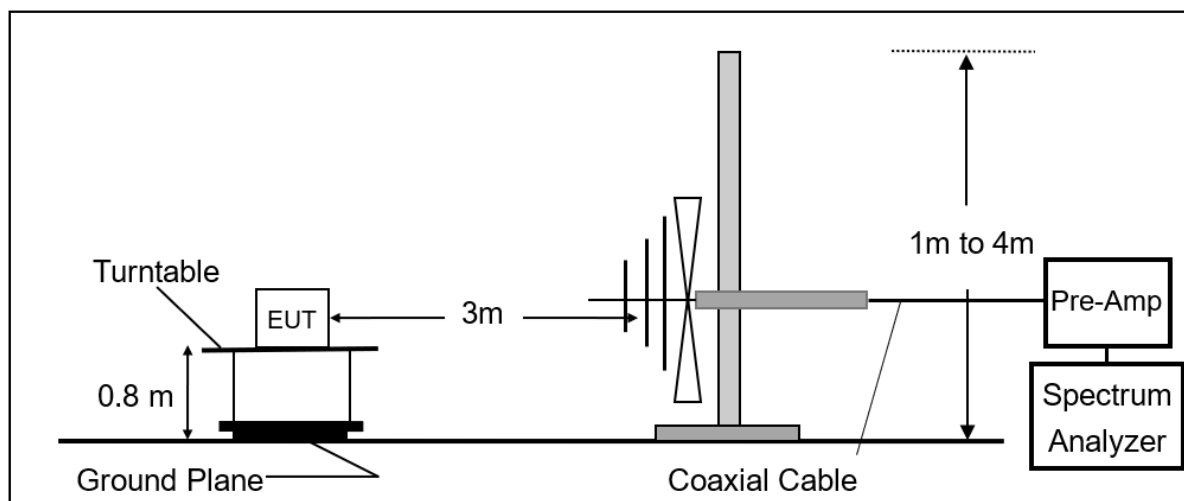
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11.3 Test SET-UP

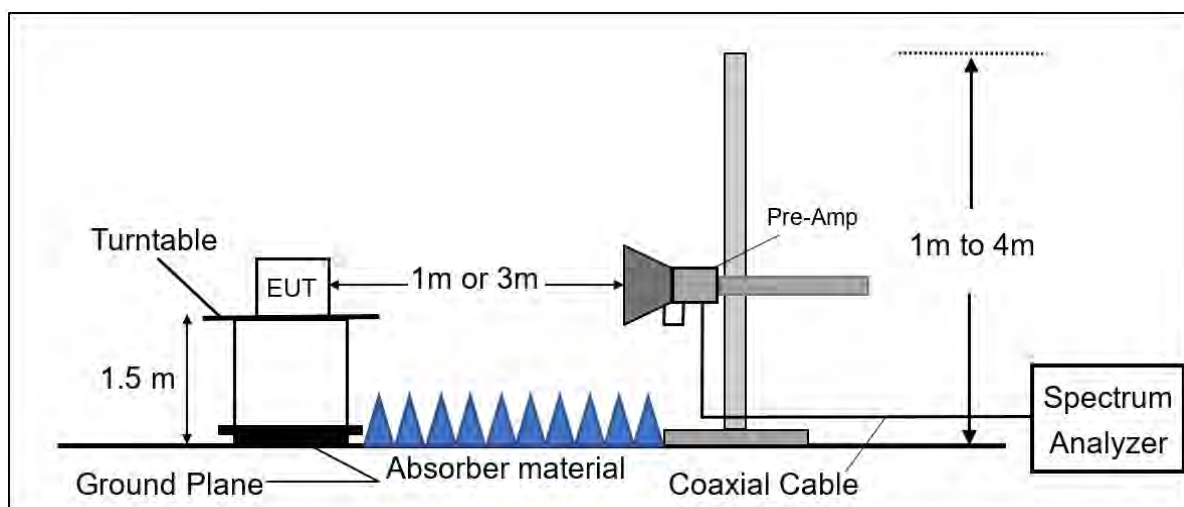
(A) Radiated Emission Test Set-Up, Frequency Below 30MHz.



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



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



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11.4 Measurement Procedure

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

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11.5 Field Strength Calculation

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

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

Where *FS* = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

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

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

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

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

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

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

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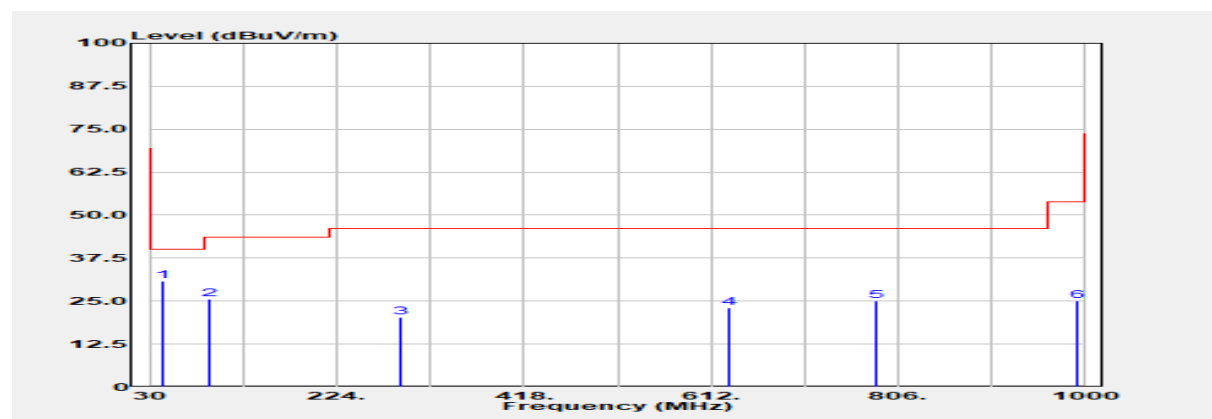
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11.7 Radiated Spurious Emission Measurement Result

11.7.1 Spurious Emission

Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :VERTICAL
Engineer :Enzo Chang



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
43.990	Peak	45.90	-15.14	30.76	40.00	-9.24
92.179	Peak	46.45	-21.00	25.45	43.50	-18.05
291.154	Peak	35.70	-15.50	20.19	46.00	-25.81
630.032	Peak	31.63	-8.67	22.96	46.00	-23.04
783.926	Peak	31.90	-6.93	24.97	46.00	-21.03
992.228	Peak	29.80	-4.82	24.98	54.00	-29.02

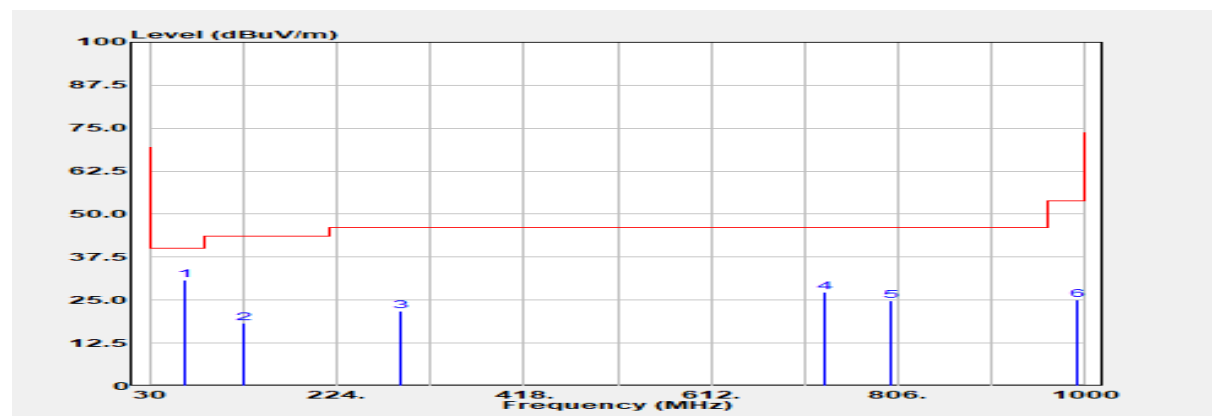
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
65.753	Peak	54.14	-23.25	30.89	40.00	-9.11
126.378	Peak	34.99	-16.78	18.21	43.50	-25.29
291.154	Peak	37.25	-15.50	21.74	46.00	-24.26
729.519	Peak	35.18	-7.96	27.22	46.00	-18.78
799.471	Peak	32.05	-7.33	24.72	46.00	-21.28
990.673	Peak	29.81	-4.79	25.03	54.00	-28.97

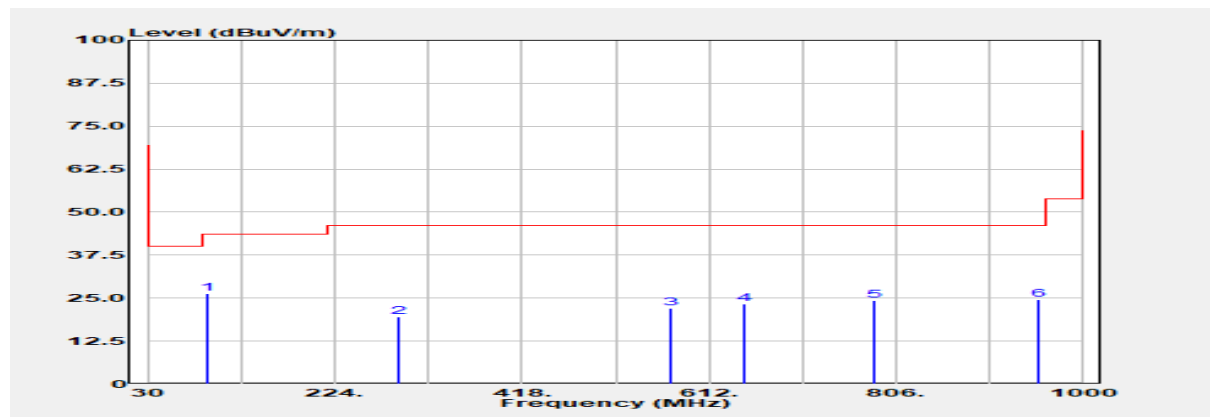
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :VERTICAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.179	Peak	47.20	-21.00	26.20	43.50	-17.30
291.154	Peak	35.03	-15.50	19.52	46.00	-26.48
572.516	Peak	30.98	-9.00	21.99	46.00	-24.01
648.686	Peak	31.63	-8.45	23.18	46.00	-22.82
783.926	Peak	31.25	-6.93	24.32	46.00	-21.68
953.365	Peak	29.80	-5.22	24.58	46.00	-21.42

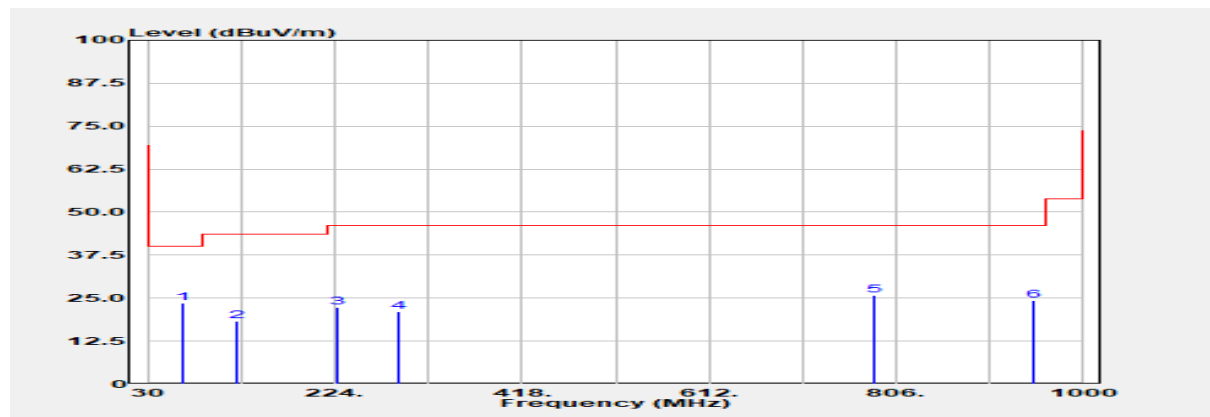
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
67.308	Peak	46.29	-22.84	23.46	40.00	-16.54
121.715	Peak	35.24	-16.85	18.39	43.50	-25.11
225.865	Peak	41.28	-19.08	22.20	46.00	-23.80
291.154	Peak	36.46	-15.50	20.96	46.00	-25.04
783.926	Peak	32.72	-6.93	25.79	46.00	-20.21
947.148	Peak	29.80	-5.41	24.40	46.00	-21.60

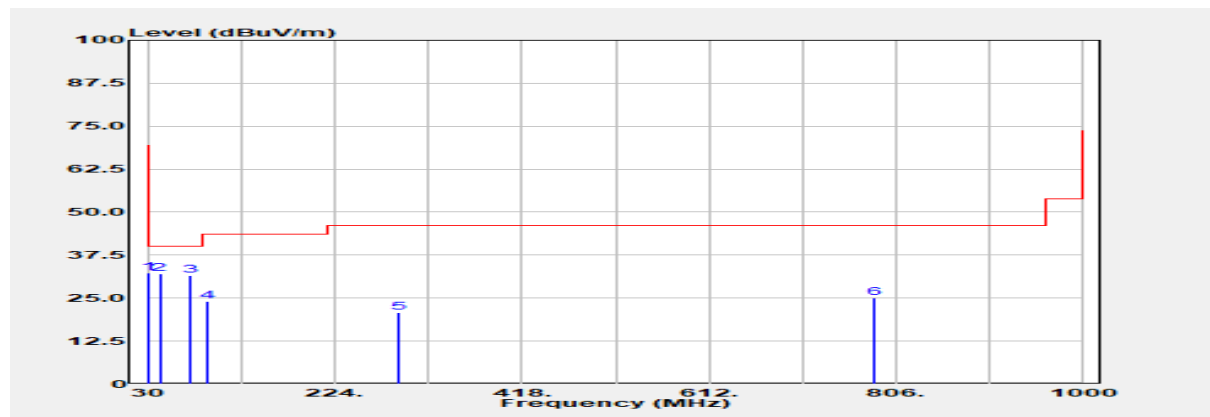
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :VERTICAL
Engineer :Enzo Chang



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
31.554	Peak	39.58	-7.29	32.28	40.00	-7.72
42.436	Peak	45.83	-13.64	32.18	40.00	-7.82
75.080	Peak	53.35	-21.86	31.49	40.00	-8.51
92.179	Peak	45.19	-21.00	24.18	43.50	-19.32
291.154	Peak	36.42	-15.50	20.91	46.00	-25.09
783.926	Peak	32.08	-6.93	25.15	46.00	-20.85

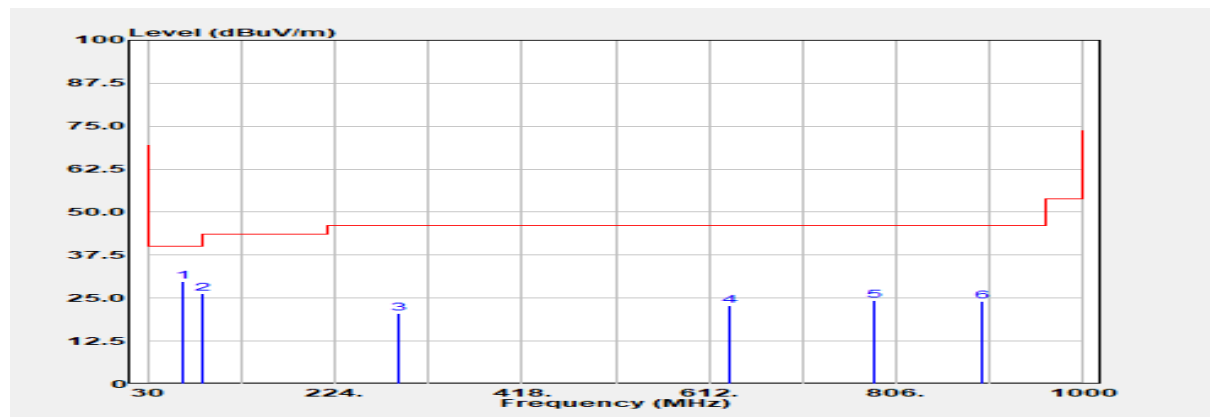
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Report Number :E2/2021/70055
 Operation Mode :802.11a / Band 3
 Test Frequency :5580 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-02
 Temp./Humi. :24.7/64
 Antenna Pol. :HORIZONTAL
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
67.308	Peak	52.62	-22.84	29.78	40.00	-10.22
85.962	Peak	47.99	-21.66	26.33	40.00	-13.67
291.154	Peak	36.00	-15.50	20.50	46.00	-25.50
633.141	Peak	31.12	-8.38	22.75	46.00	-23.25
783.926	Peak	31.21	-6.93	24.28	46.00	-21.72
895.849	Peak	29.61	-5.49	24.12	46.00	-21.88

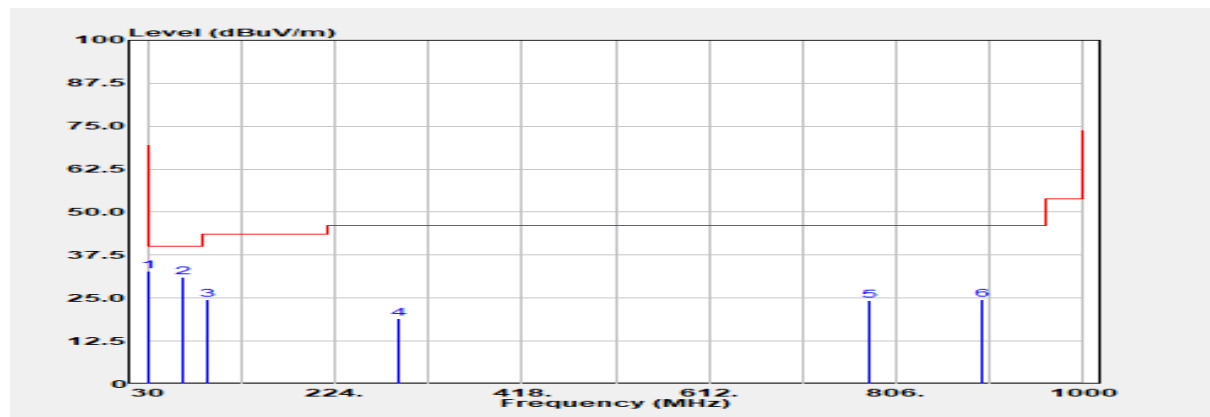
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :VERTICAL
Engineer :Enzo Chang



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
31.554	Peak	40.11	-7.29	32.82	40.00	-7.18
67.308	Peak	54.01	-22.84	31.18	40.00	-8.82
92.179	Peak	45.56	-21.00	24.56	43.50	-18.94
291.154	Peak	34.66	-15.50	19.16	46.00	-26.84
777.708	Peak	31.30	-7.01	24.28	46.00	-21.72
895.849	Peak	29.96	-5.49	24.47	46.00	-21.53

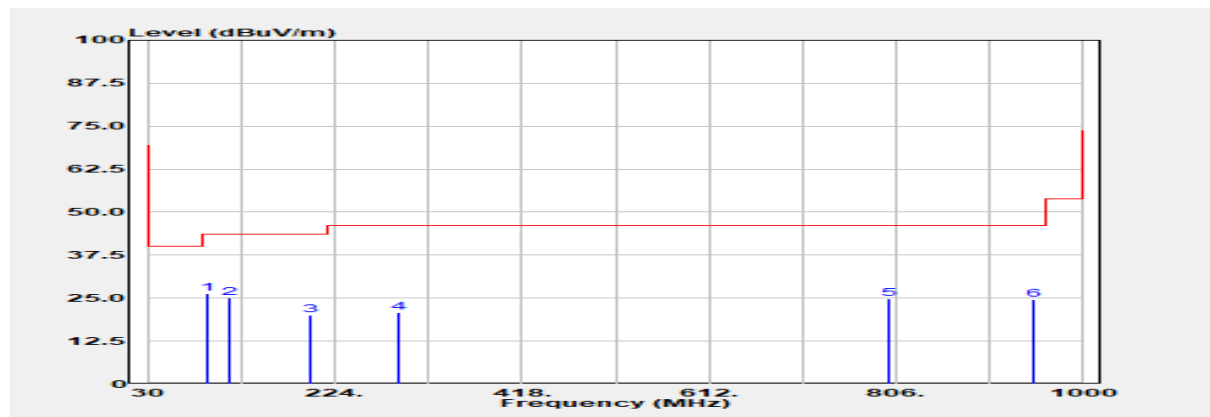
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.179	Peak	47.25	-21.00	26.25	43.50	-17.25
115.497	Peak	42.45	-17.40	25.04	43.50	-18.46
199.439	Peak	39.79	-19.69	20.10	43.50	-23.40
291.154	Peak	36.42	-15.50	20.91	46.00	-25.09
799.471	Peak	32.12	-7.33	24.79	46.00	-21.21
948.702	Peak	29.94	-5.30	24.64	46.00	-21.36

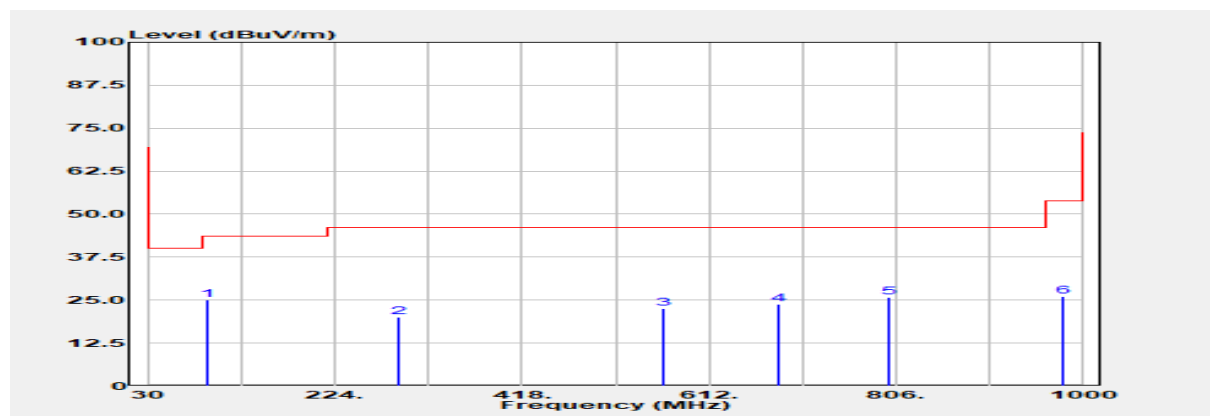
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Report Number :E2/2021/70055
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :VERTICAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.179	Peak	45.99	-21.00	24.99	43.50	-18.51
291.154	Peak	35.47	-15.50	19.97	46.00	-26.03
564.744	Peak	31.52	-8.85	22.68	46.00	-23.32
684.439	Peak	31.75	-7.87	23.88	46.00	-22.12
799.471	Peak	33.22	-7.33	25.89	46.00	-20.11
979.792	Peak	30.85	-4.79	26.06	54.00	-27.94

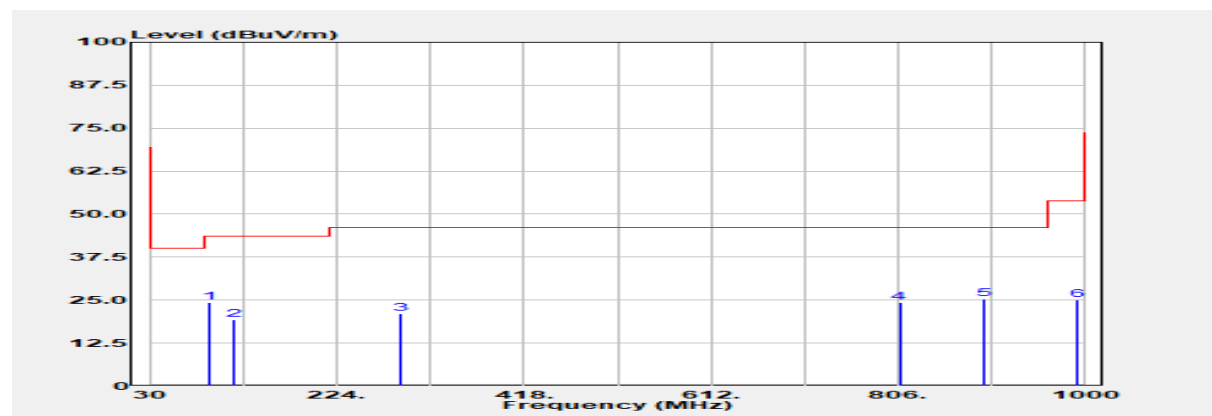
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Report Number :E2/2021/70055
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
92.179	Peak	45.25	-21.00	24.24	43.50	-19.26
117.051	Peak	36.46	-17.11	19.35	43.50	-24.15
291.154	Peak	36.67	-15.50	21.17	46.00	-24.83
807.244	Peak	31.52	-7.14	24.38	46.00	-21.62
894.295	Peak	30.79	-5.51	25.27	46.00	-20.73
990.673	Peak	29.77	-4.79	24.99	54.00	-29.01

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 2

Test Date :2021-08-02

Test Frequency :5290 MHz

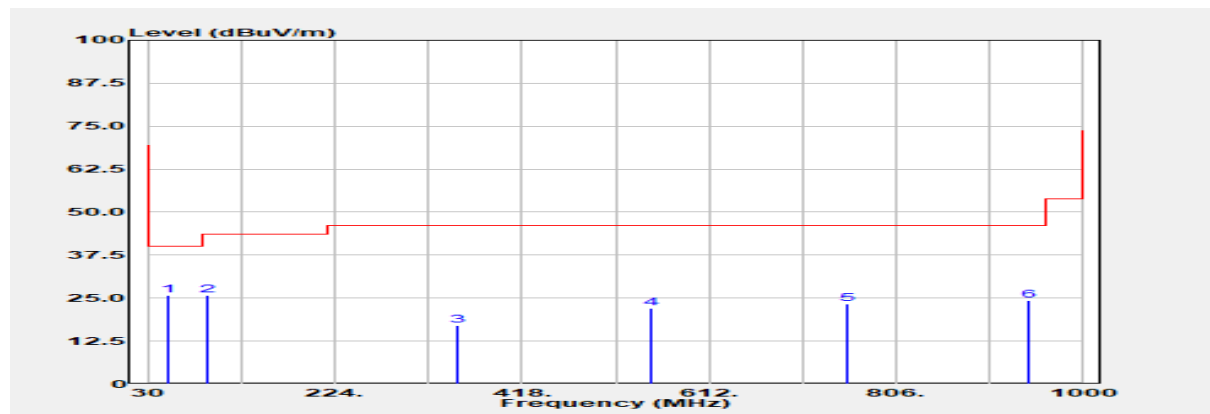
Temp./Humi. :24.7/64

Test Mode :TX CH HIGH

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
51.763	Peak	47.04	-21.20	25.83	40.00	-14.17
92.179	Peak	46.72	-21.00	25.72	43.50	-17.78
351.779	Peak	31.06	-13.93	17.12	46.00	-28.88
550.753	Peak	30.90	-8.79	22.11	46.00	-23.89
754.391	Peak	31.17	-7.87	23.30	46.00	-22.70
942.484	Peak	29.81	-5.55	24.26	46.00	-21.74

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 2

Test Date :2021-08-02

Test Frequency :5290 MHz

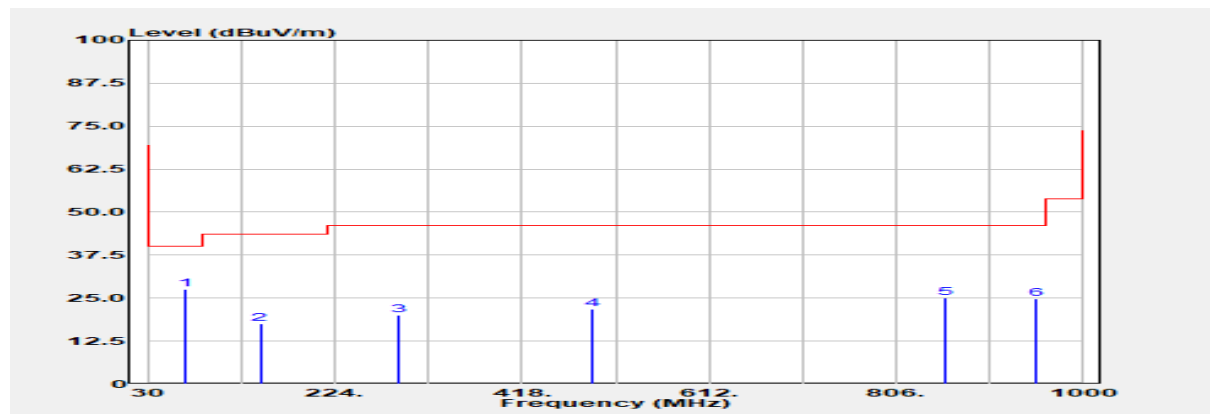
Temp./Humi. :24.7/64

Test Mode :TX CH HIGH

Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
68.862	Peak	50.12	-22.61	27.50	40.00	-12.50
146.587	Peak	35.50	-17.93	17.57	43.50	-25.93
291.154	Peak	35.59	-15.50	20.08	46.00	-25.92
491.683	Peak	32.28	-10.55	21.73	46.00	-24.27
856.987	Peak	31.44	-6.47	24.97	46.00	-21.03
950.256	Peak	30.03	-5.21	24.82	46.00	-21.18

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-02

Test Frequency :5610 MHz

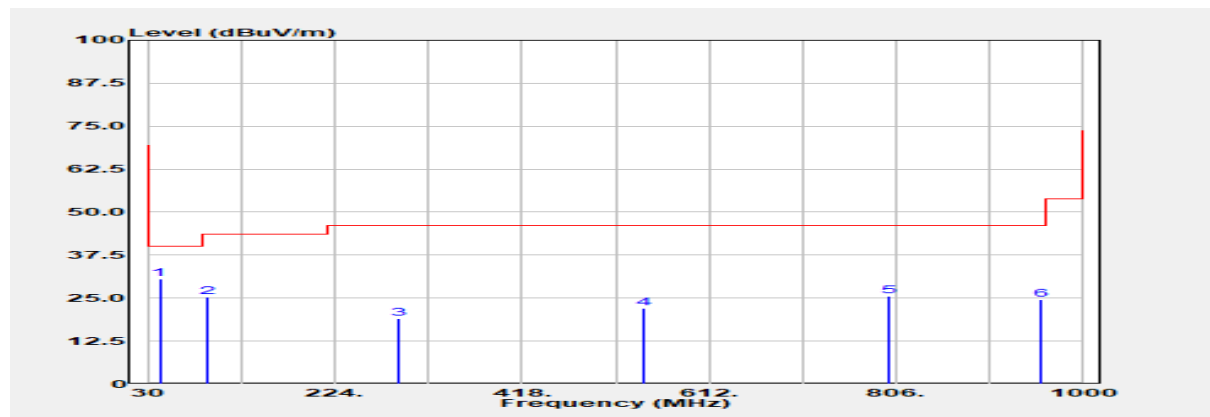
Temp./Humi. :24.7/64

Test Mode :TX CH MID

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
42.436	Peak	44.21	-13.64	30.57	40.00	-9.43
92.179	Peak	46.44	-21.00	25.43	43.50	-18.07
291.154	Peak	34.54	-15.50	19.03	46.00	-26.97
544.535	Peak	31.28	-9.28	22.00	46.00	-24.01
797.917	Peak	32.76	-7.11	25.65	46.00	-20.35
956.474	Peak	30.00	-5.47	24.53	46.00	-21.47

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-02

Test Frequency :5610 MHz

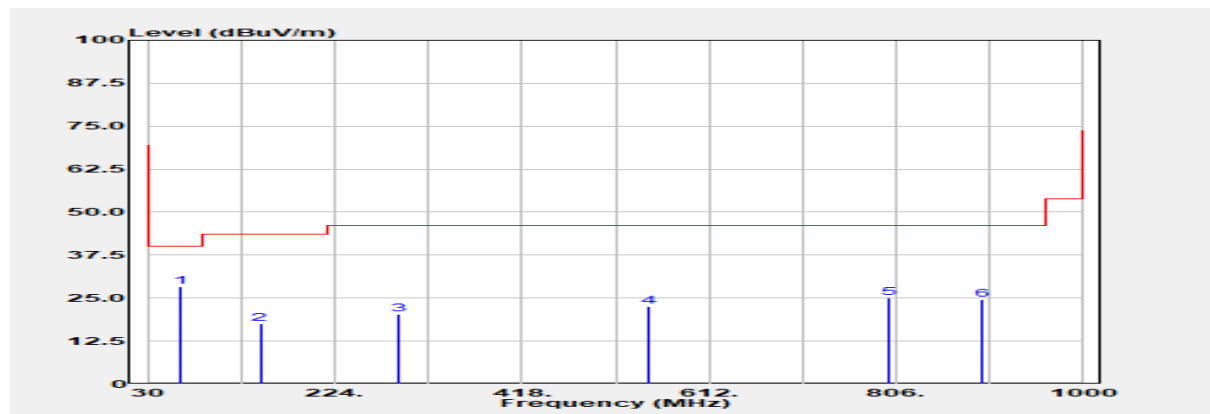
Temp./Humi. :24.7/64

Test Mode :TX CH MID

Antenna Pol. :HORIZONTAL

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
64.199	Peak	51.58	-23.33	28.26	40.00	-11.74
146.587	Peak	35.55	-17.93	17.62	43.50	-25.88
291.154	Peak	35.89	-15.50	20.39	46.00	-25.61
549.199	Peak	31.38	-8.80	22.59	46.00	-23.41
799.471	Peak	32.48	-7.33	25.15	46.00	-20.85
894.295	Peak	29.98	-5.51	24.47	46.00	-21.53

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 4

Test Date :2021-08-02

Test Frequency :5775 MHz

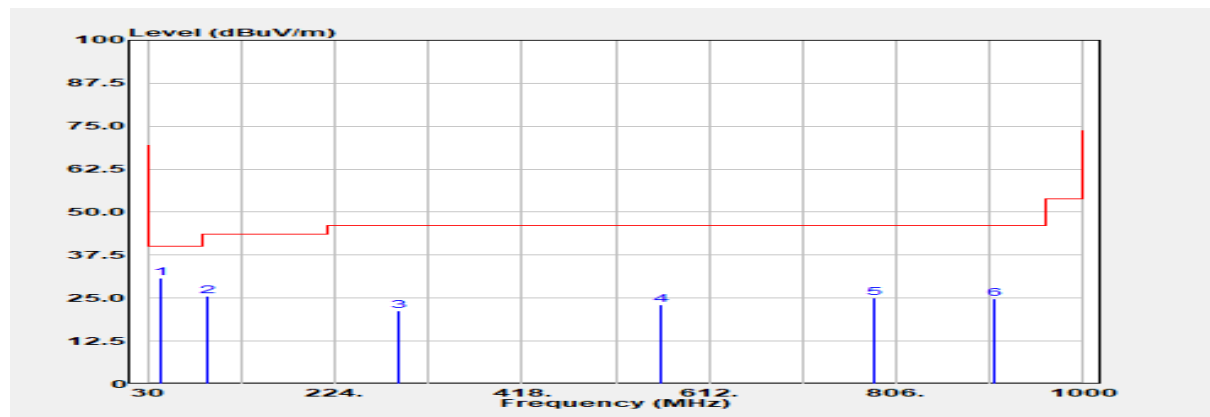
Temp./Humi. :24.7/64

Test Mode :TX CH LOW

Antenna Pol. :VERTICAL

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
43.990	Peak	46.03	-15.14	30.89	40.00	-9.11
92.179	Peak	46.51	-21.00	25.51	43.50	-17.99
291.154	Peak	36.81	-15.50	21.31	46.00	-24.69
563.189	Peak	31.92	-8.97	22.95	46.00	-23.05
783.926	Peak	31.87	-6.93	24.94	46.00	-21.06
908.285	Peak	30.79	-6.09	24.70	46.00	-21.30

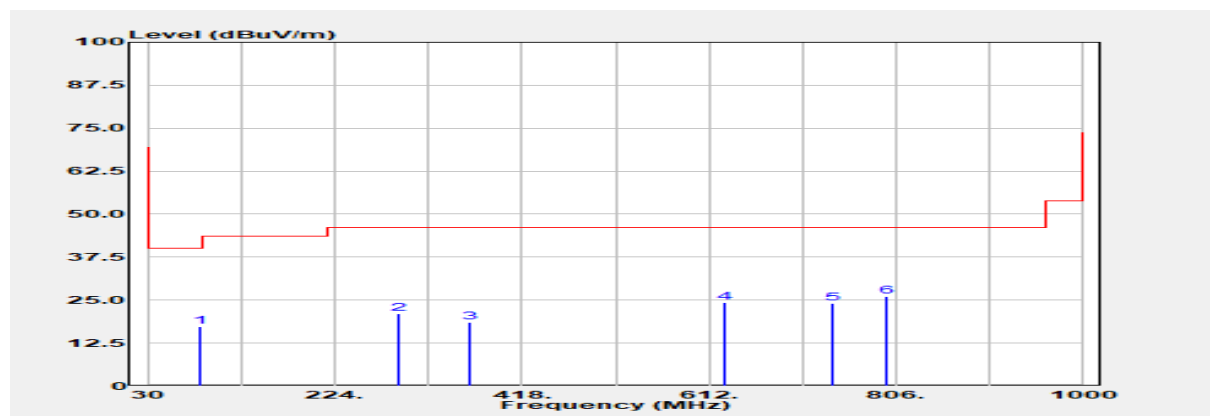
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Report Number :E2/2021/70055
Operation Mode :802.11ac80 / Band 4
Test Frequency :5775 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :24.7/64
Antenna Pol. :HORIZONTAL
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
84.407	Peak	38.94	-21.59	17.36	40.00	-22.64
291.154	Peak	36.65	-15.50	21.14	46.00	-24.86
364.215	Peak	32.13	-13.57	18.56	46.00	-27.44
628.478	Peak	32.89	-8.54	24.35	46.00	-21.65
738.846	Peak	31.11	-7.17	23.94	46.00	-22.06
796.362	Peak	33.01	-6.90	26.12	46.00	-19.88

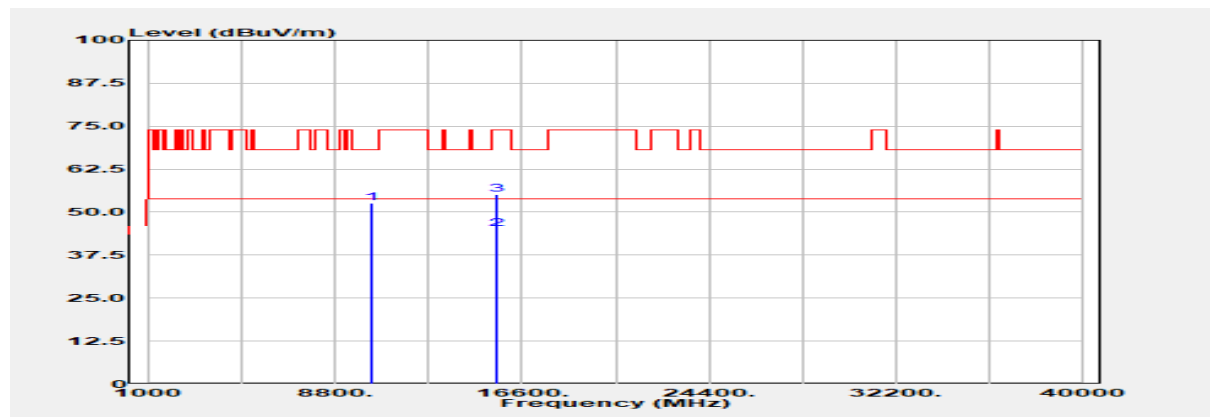
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
10360.000	Peak	30.18	22.53	52.70	68.20	-15.50
15540.000	Average	19.48	25.60	45.08	54.00	-8.92
15540.000	Peak	29.45	25.60	55.05	74.00	-18.95

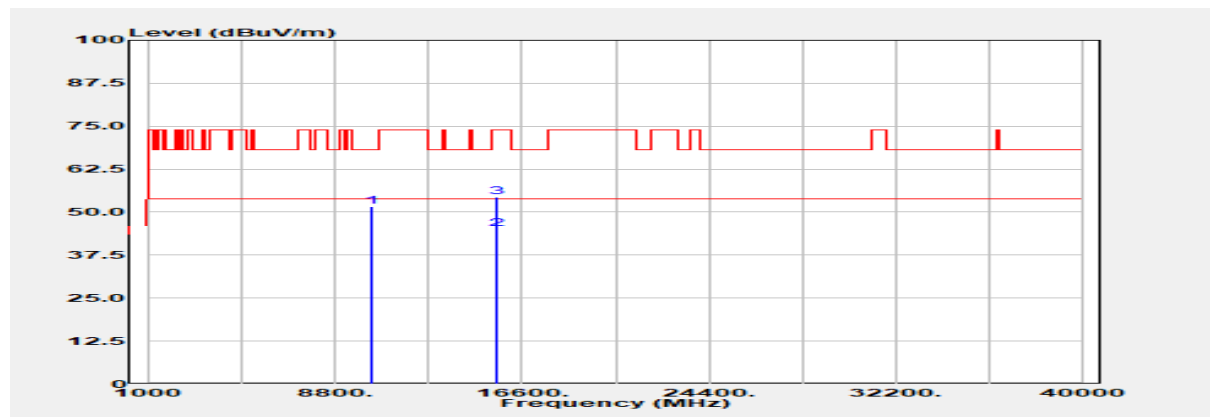
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5180 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
10360.000	Peak	29.20	22.53	51.72	68.20	-16.48
15540.000	Average	19.57	25.60	45.17	54.00	-8.83
15540.000	Peak	28.87	25.60	54.48	74.00	-19.52

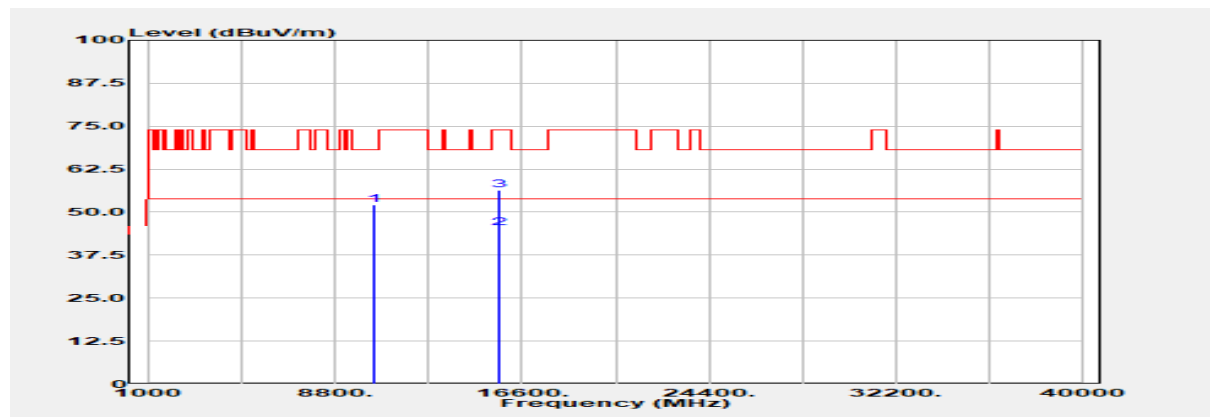
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
10440.000	Peak	29.64	22.54	52.18	68.20	-16.02
15660.000	Average	19.63	25.83	45.46	54.00	-8.54
15660.000	Peak	30.64	25.83	56.47	74.00	-17.53

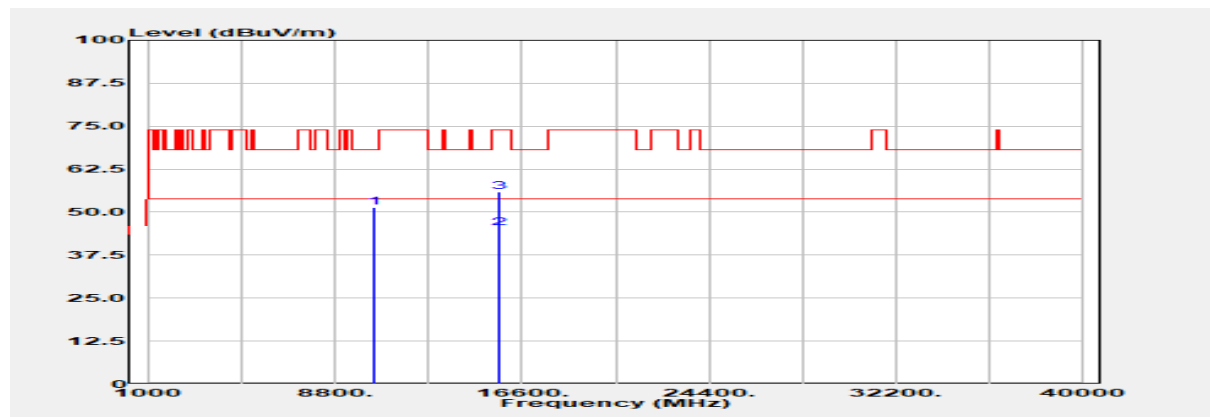
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5220 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
10440.000	Peak	28.75	22.54	51.29	68.20	-16.91
15660.000	Average	19.55	25.83	45.38	54.00	-8.62
15660.000	Peak	30.03	25.83	55.85	74.00	-18.15

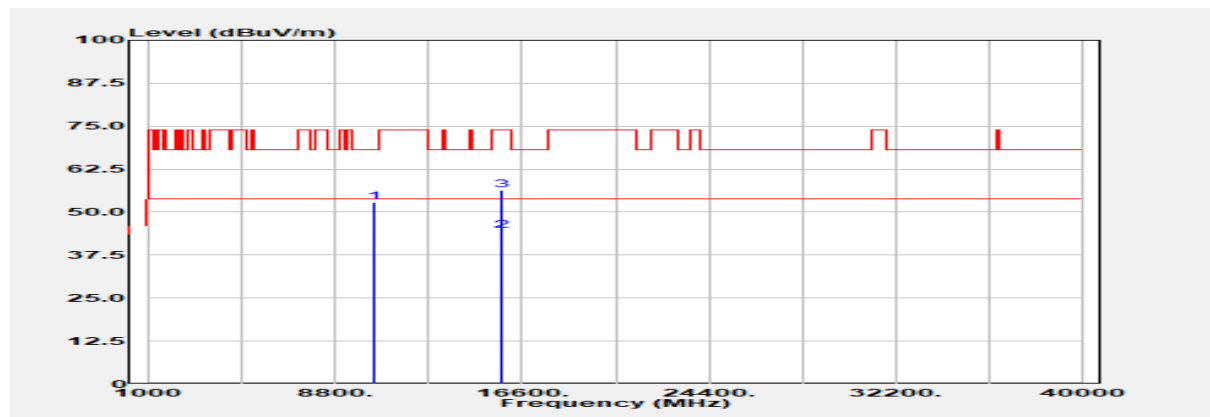
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	29.60	23.19	52.79	68.20	-15.41
15720.000	Average	19.61	24.99	44.60	54.00	-9.40
15720.000	Peak	31.52	24.99	56.51	74.00	-17.49

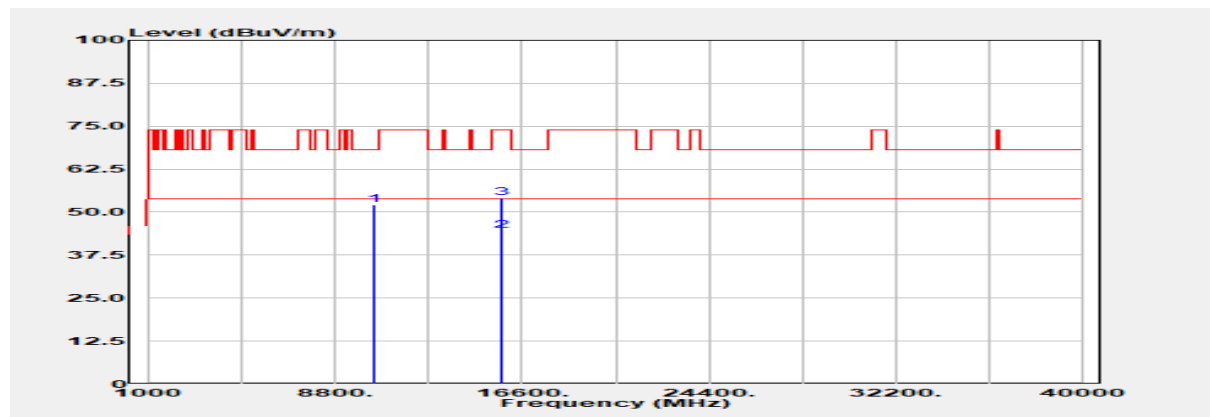
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 1
Test Frequency :5240 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
10480.000	Peak	29.04	23.19	52.23	68.20	-15.97
15720.000	Average	19.54	24.99	44.53	54.00	-9.47
15720.000	Peak	29.11	24.99	54.11	74.00	-19.89

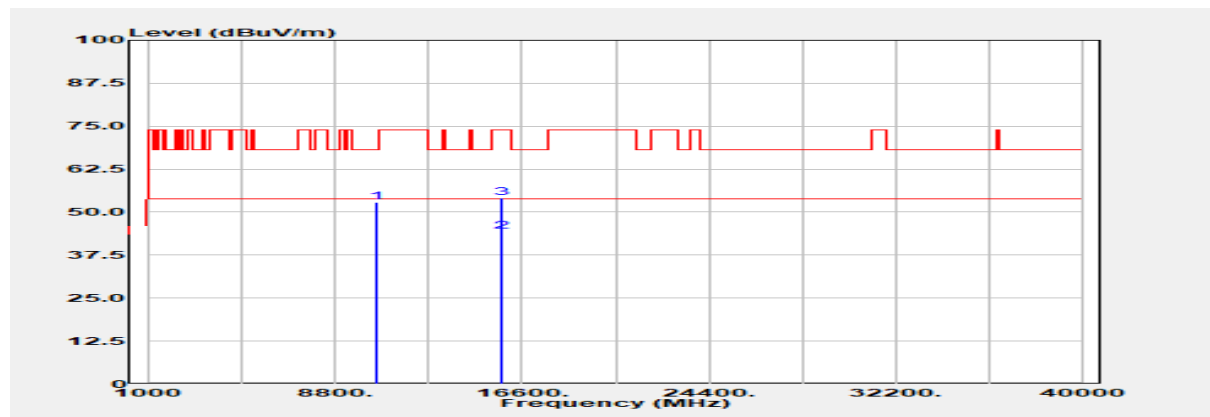
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
10520.000	Peak	29.46	23.52	52.98	68.20	-15.22
15780.000	Average	19.58	24.82	44.40	54.00	-9.60
15780.000	Peak	29.25	24.82	54.07	74.00	-19.93

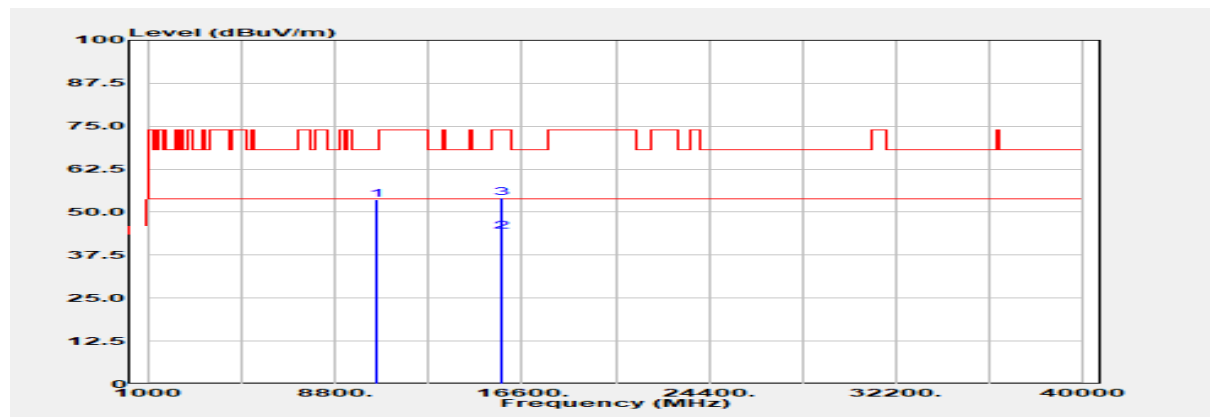
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-02
Temp./Humi. :23.5/56
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
10520.000	Peak	30.02	23.52	53.54	68.20	-14.66
15780.000	Average	19.56	24.82	44.38	54.00	-9.62
15780.000	Peak	29.27	24.82	54.09	74.00	-19.91

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11a / Band 2

Test Date :2021-08-03

Test Frequency :5300 MHz

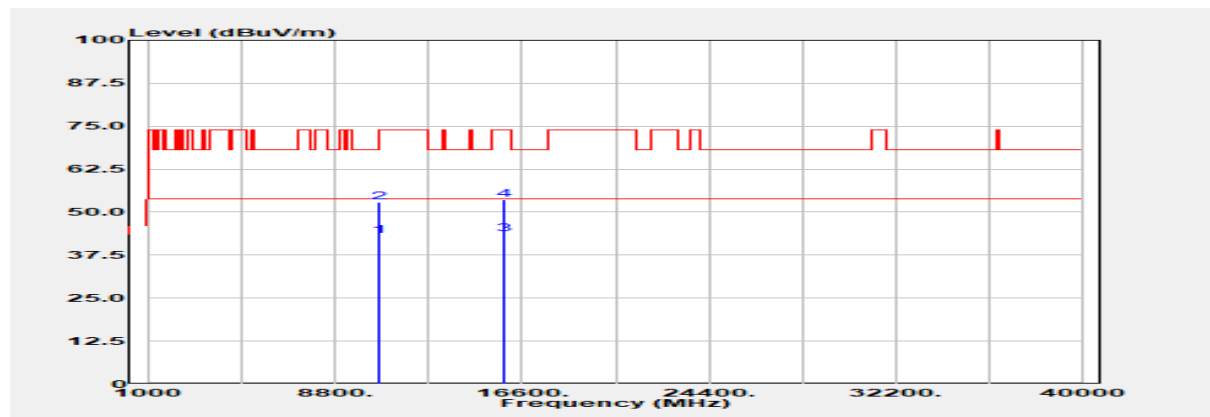
Temp./Humi. :23.2/54

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	19.87	23.11	42.98	54.00	-11.02
10600.000	Peak	29.66	23.11	52.78	74.00	-21.22
15900.000	Average	19.66	23.84	43.50	54.00	-10.50
15900.000	Peak	29.87	23.84	53.71	74.00	-20.29

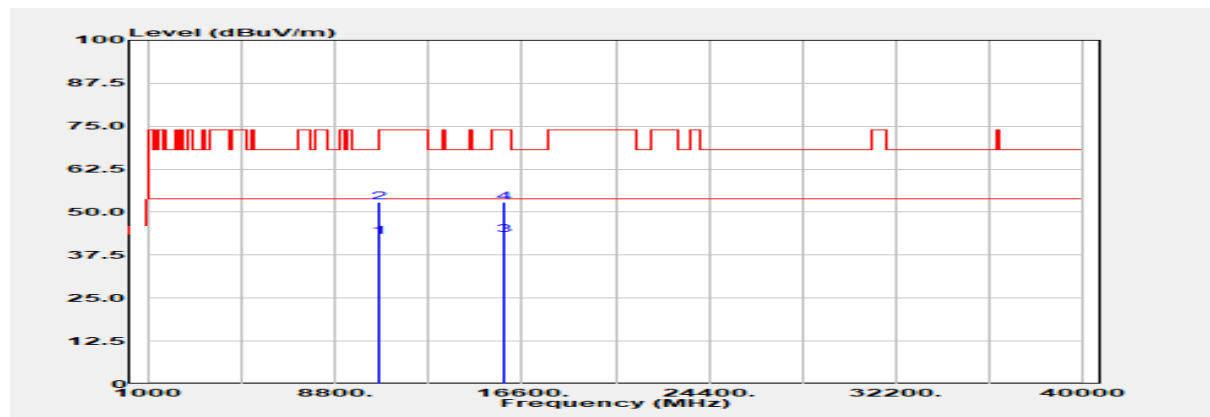
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 2
Test Frequency :5300 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	19.82	23.11	42.93	54.00	-11.07
10600.000	Peak	29.71	23.11	52.82	74.00	-21.18
15900.000	Average	19.62	23.84	43.46	54.00	-10.54
15900.000	Peak	29.01	23.84	52.84	74.00	-21.16

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11a / Band 2

Test Date :2021-08-03

Test Frequency :5320 MHz

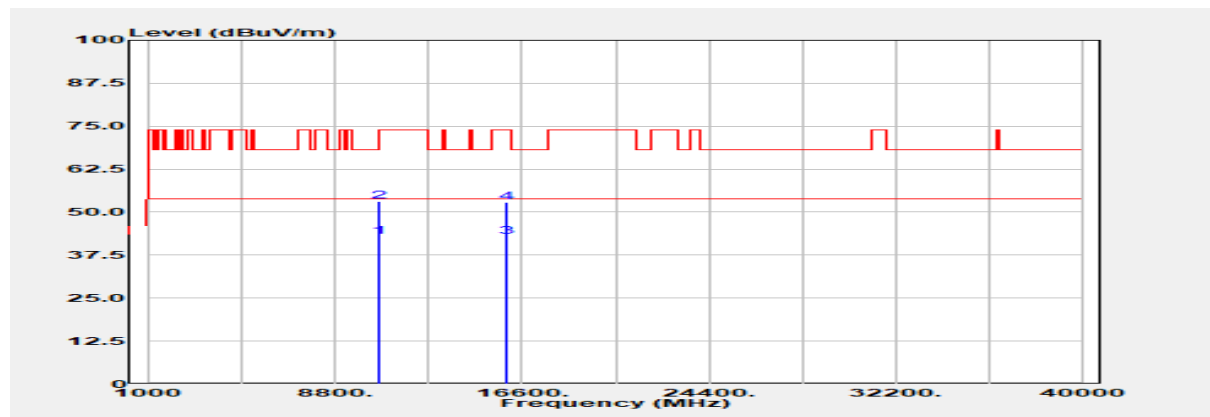
Temp./Humi. :23.2/54

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10640.000	Average	19.75	23.12	42.87	54.00	-11.13
10640.000	Peak	29.90	23.12	53.02	74.00	-20.98
15960.000	Average	19.83	23.12	42.95	54.00	-11.05
15960.000	Peak	29.53	23.43	52.96	74.00	-21.04

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11a / Band 2

Test Date :2021-08-03

Test Frequency :5320 MHz

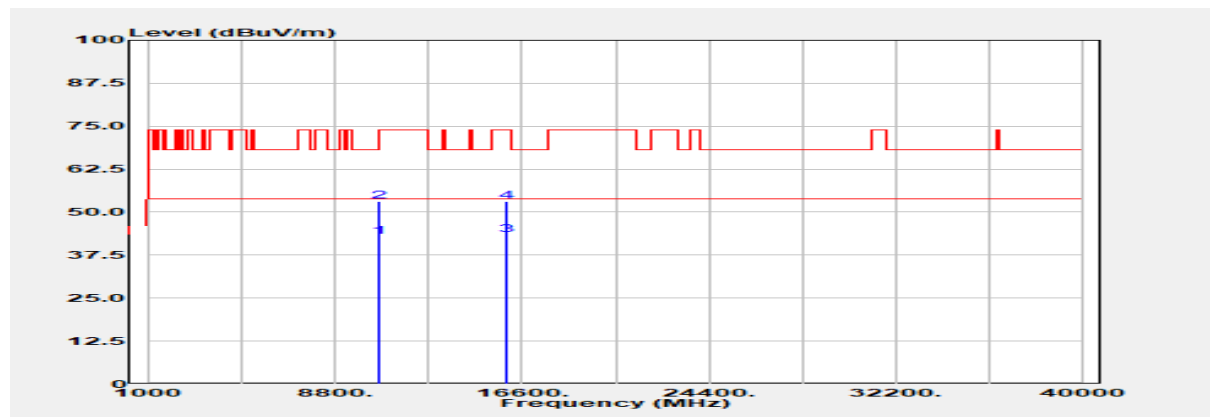
Temp./Humi. :23.2/54

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10640.000	Average	19.65	23.12	42.77	54.00	-11.23
10640.000	Peak	29.97	23.12	53.09	74.00	-20.91
15960.000	Average	19.92	23.43	43.35	54.00	-10.65
15960.000	Peak	29.82	23.43	53.25	74.00	-20.75

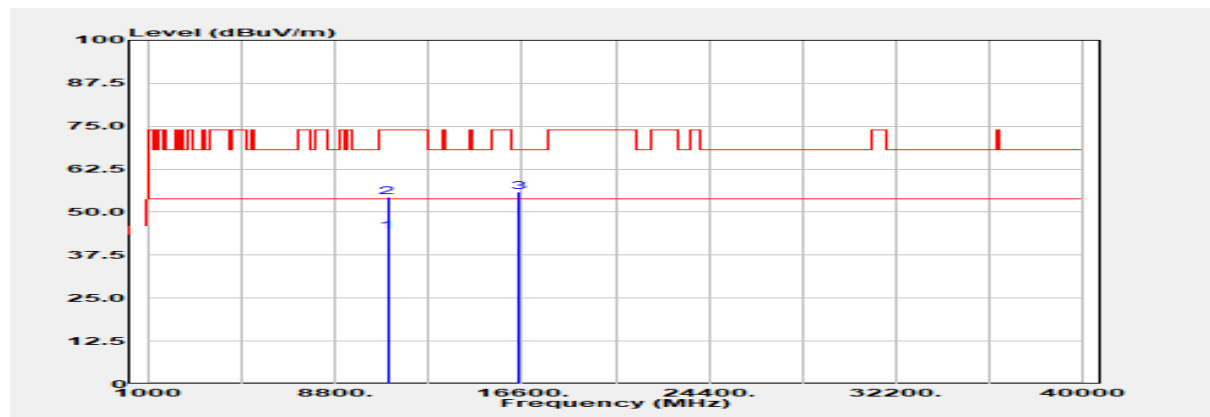
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
11000.000	Average	19.66	24.74	44.40	54.00	-9.60
11000.000	Peak	29.76	24.74	54.50	74.00	-19.50
16500.000	Peak	29.80	26.06	55.86	68.20	-12.34

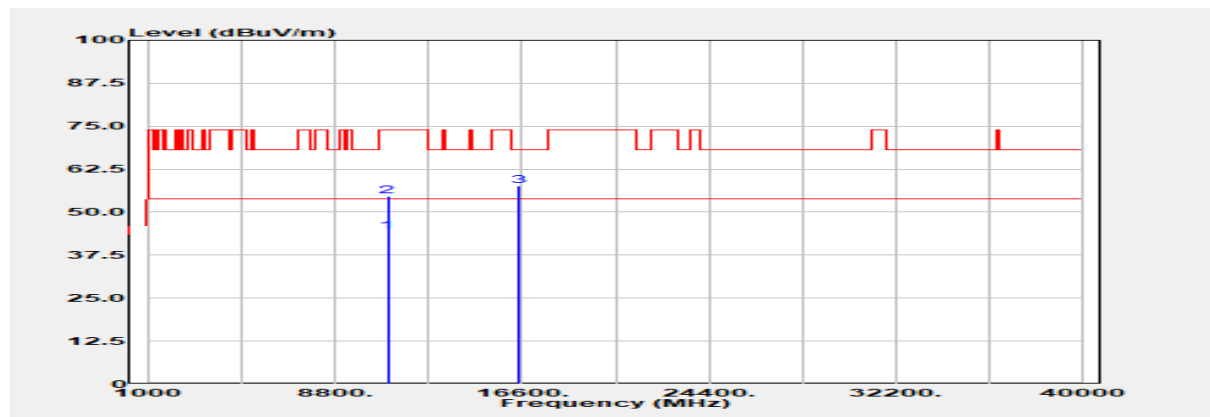
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5500 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
11000.000	Average	19.69	24.74	44.43	54.00	-9.57
11000.000	Peak	29.94	24.74	54.68	74.00	-19.32
16500.000	Peak	31.61	26.06	57.68	68.20	-10.52

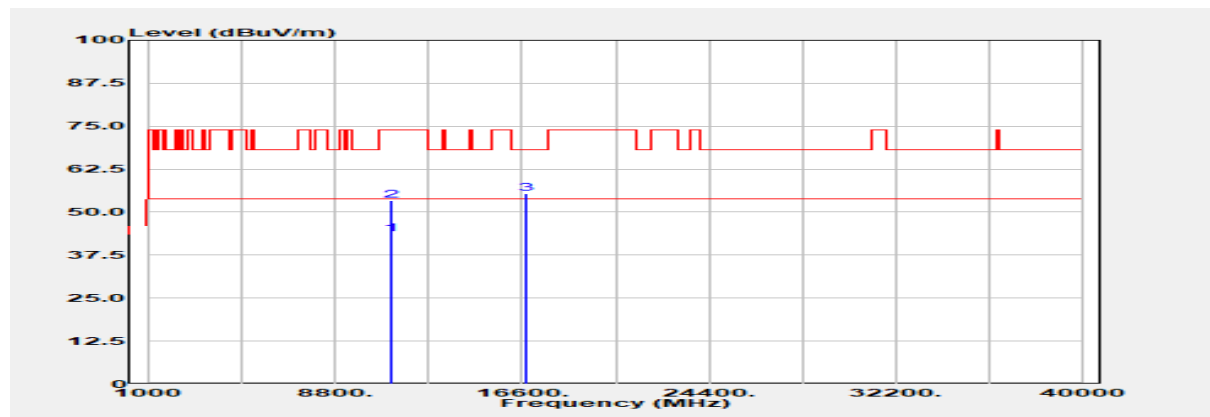
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	19.67	24.01	43.68	54.00	-10.32
11160.000	Peak	29.26	24.01	53.28	74.00	-20.72
16740.000	Peak	29.19	26.11	55.30	68.20	-12.90

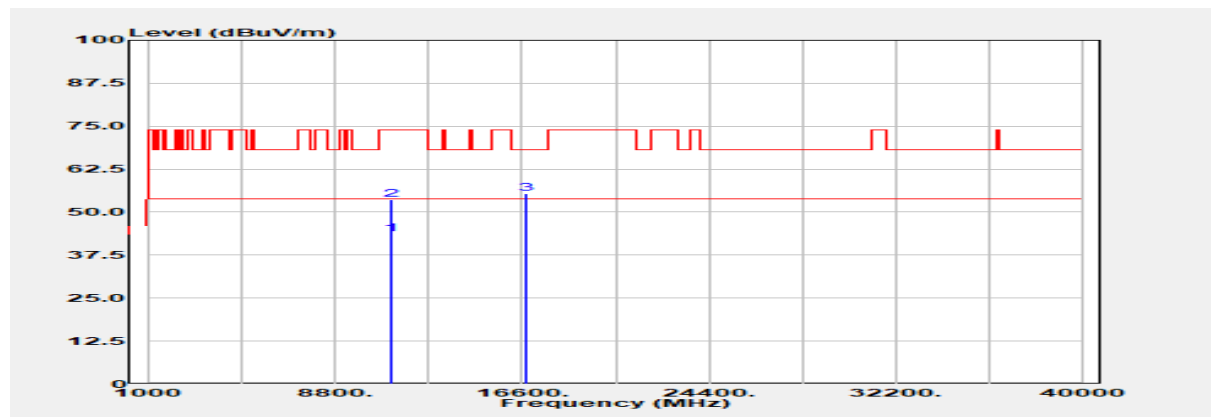
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	19.71	24.01	43.72	54.00	-10.28
11160.000	Peak	29.51	24.01	53.52	74.00	-20.48
16740.000	Peak	29.35	26.11	55.46	68.20	-12.74

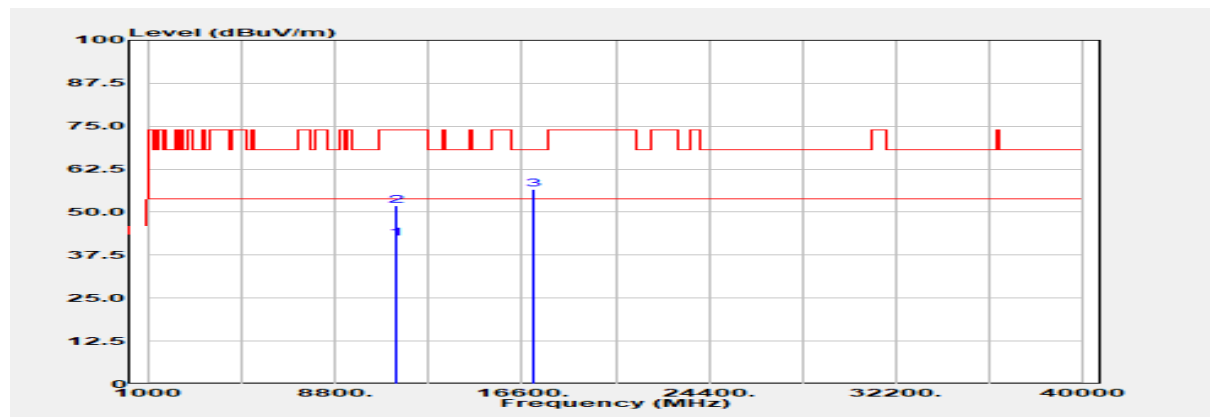
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Vertical
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.000	Average	19.56	22.73	42.29	54.00	-11.71
11400.000	Peak	29.21	22.73	51.95	74.00	-22.05
17100.000	Peak	30.58	25.93	56.52	68.20	-11.68

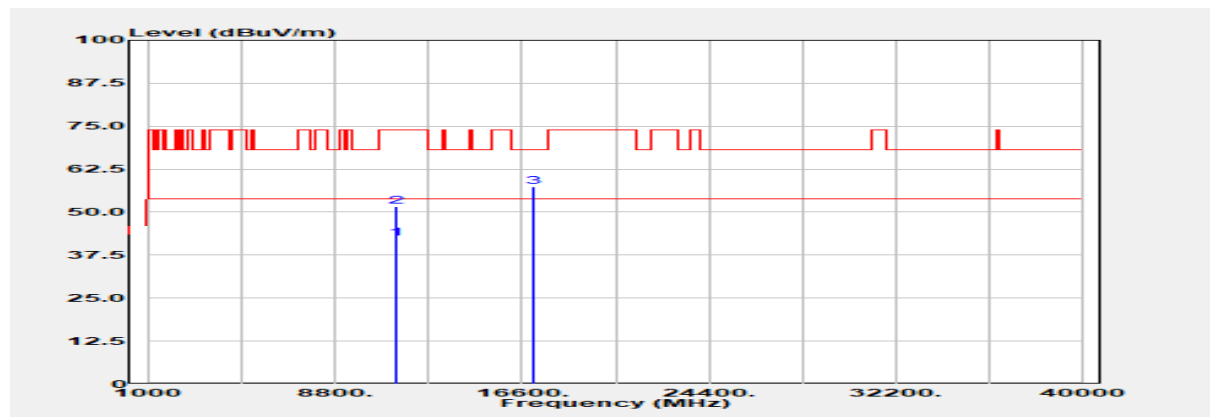
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 3
Test Frequency :5700 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
11400.000	Average	19.58	22.73	42.31	54.00	-11.69
11400.000	Peak	28.90	22.73	51.63	74.00	-22.37
17100.000	Peak	31.43	25.93	57.36	68.20	-10.84

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11a / Band 3-4

Test Date :2021-08-03

Test Frequency :5720 MHz

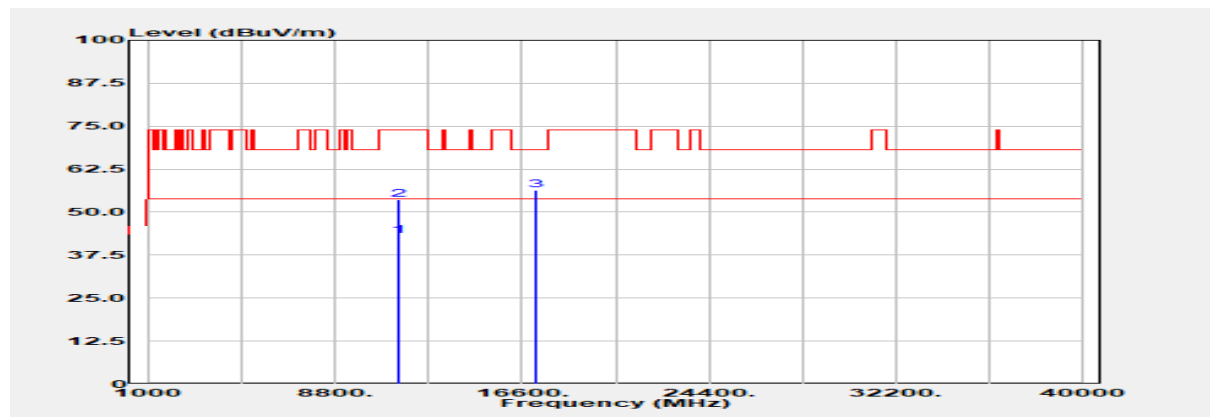
Temp./Humi. :23.2/54

Test Mode :TX CH 144

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11440.000	Average	19.75	23.40	43.15	54.00	-10.85
11440.000	Peak	30.16	23.40	53.57	74.00	-20.43
17160.000	Peak	30.21	26.22	56.43	68.20	-11.77

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11a / Band 3-4

Test Date :2021-08-03

Test Frequency :5720 MHz

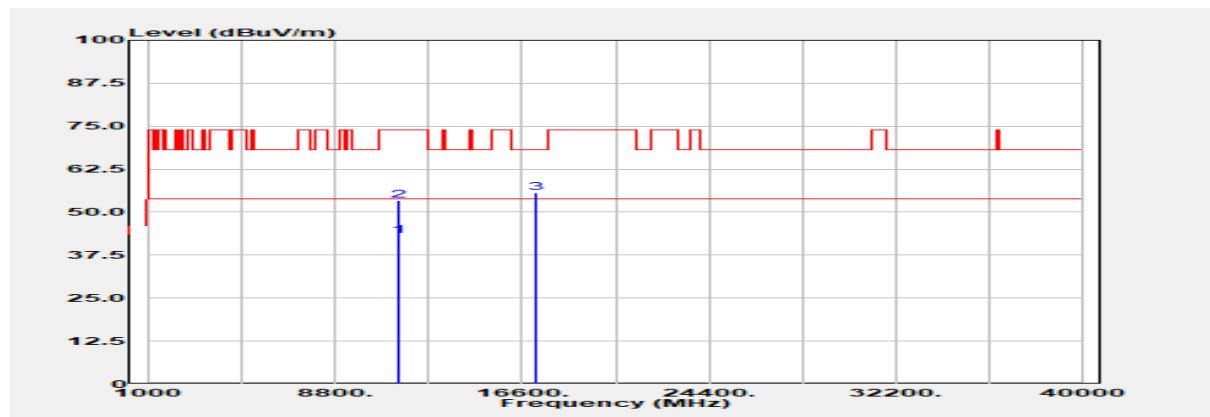
Temp./Humi. :23.2/54

Test Mode :TX CH 144

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.000	Average	19.68	23.40	43.08	54.00	-10.92
11440.000	Peak	29.88	23.40	53.28	74.00	-20.72
17160.000	Peak	29.31	26.22	55.53	68.20	-12.67

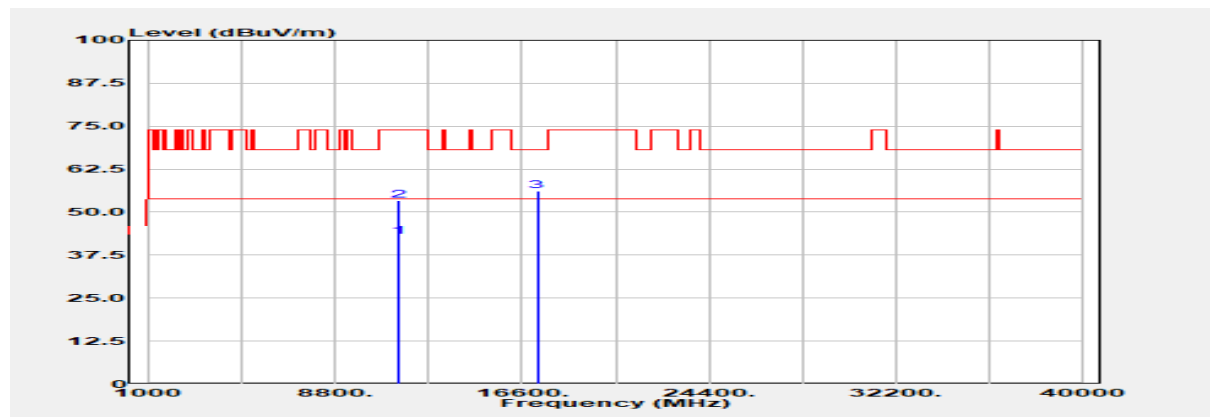
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
11490.000	Average	19.72	23.20	42.92	54.00	-11.08
11490.000	Peak	30.26	23.20	53.46	74.00	-20.54
17235.000	Peak	29.68	26.56	56.24	68.20	-11.96

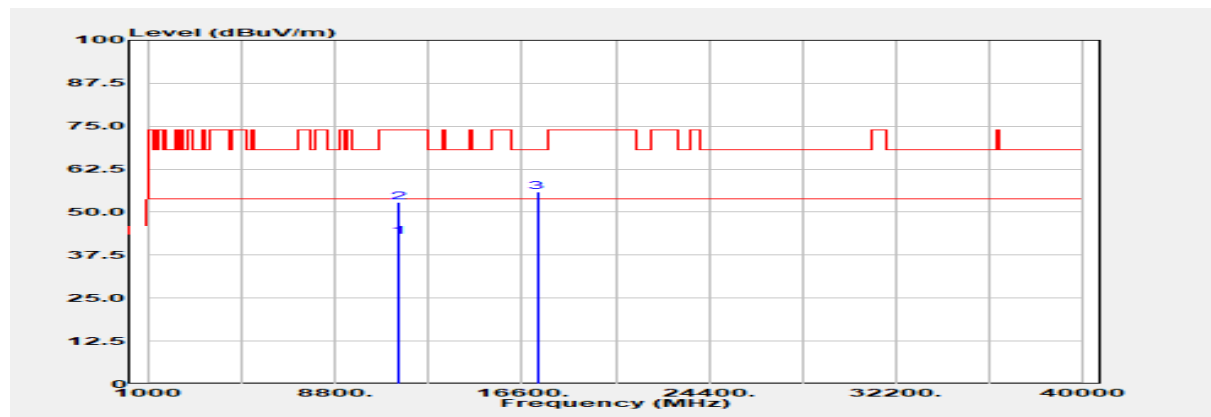
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5745 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
11490.000	Average	19.63	23.20	42.83	54.00	-11.17
11490.000	Peak	29.68	23.20	52.88	74.00	-21.12
17235.000	Peak	29.40	26.56	55.96	68.20	-12.24

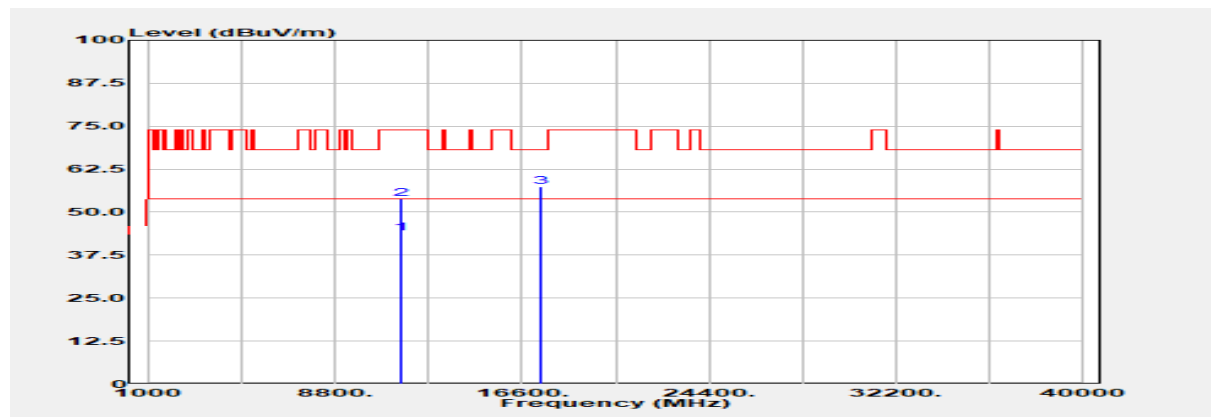
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Report Number :E2/2021/70055
 Operation Mode :802.11a / Band 4
 Test Frequency :5785 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.2/54
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	19.84	23.93	43.77	54.00	-10.23
11570.000	Peak	29.83	23.93	53.76	74.00	-20.24
17355.000	Peak	29.38	27.97	57.35	68.20	-10.85

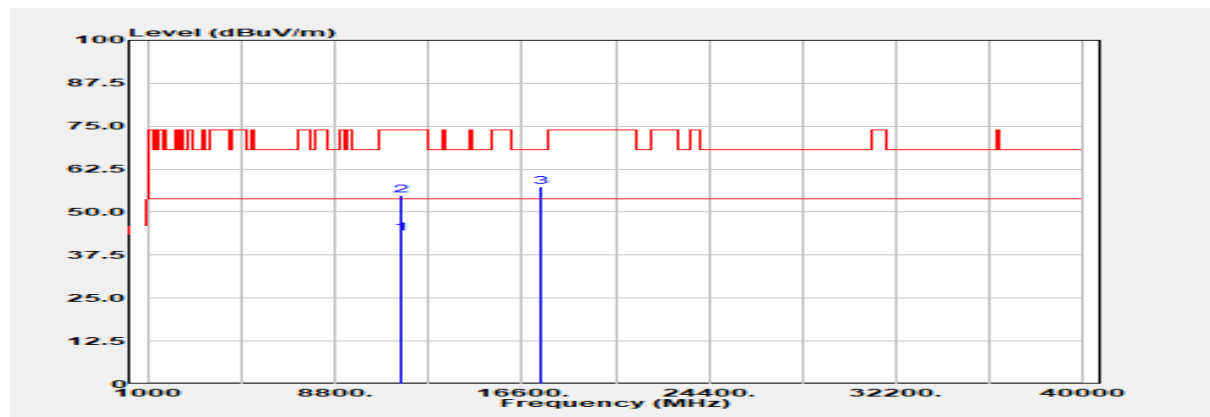
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5785 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	19.89	23.93	43.82	54.00	-10.18
11570.000	Peak	30.88	23.93	54.82	74.00	-19.18
17355.000	Peak	29.52	27.97	57.49	68.20	-10.71

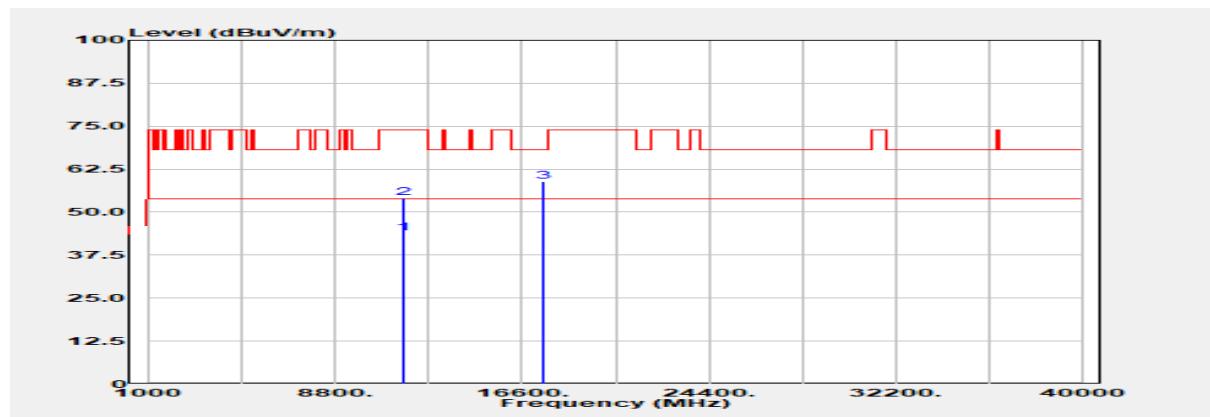
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
11650.000	Average	19.78	24.02	43.80	54.00	-10.20
11650.000	Peak	30.06	24.02	54.08	74.00	-19.92
17475.000	Peak	29.38	29.49	58.88	68.20	-9.32

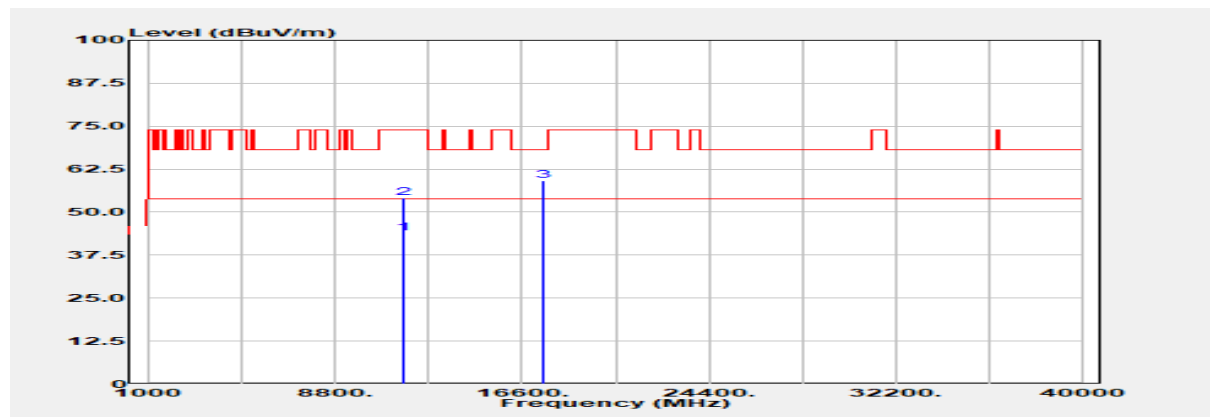
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Report Number :E2/2021/70055
Operation Mode :802.11a / Band 4
Test Frequency :5825 MHz
Test Mode :TX CH HIGH
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.2/54
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
11650.000	Average	19.86	24.02	43.88	54.00	-10.12
11650.000	Peak	30.17	24.02	54.19	74.00	-19.81
17475.000	Peak	29.62	29.49	59.12	68.20	-9.08

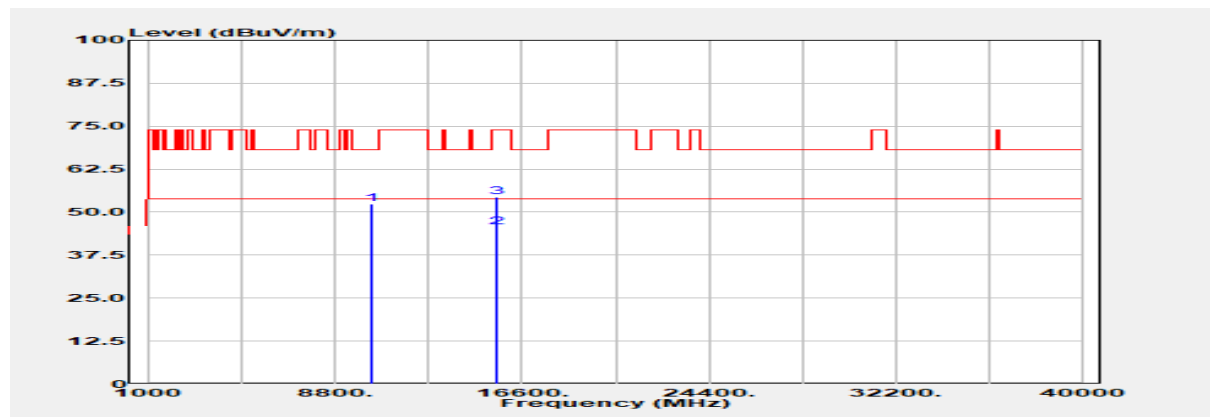
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Report Number :E2/2021/70055
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.4/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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
10360.000	Peak	29.88	22.53	52.41	68.20	-15.79
15540.000	Average	20.06	25.60	45.66	54.00	-8.34
15540.000	Peak	28.84	25.60	54.45	74.00	-19.55

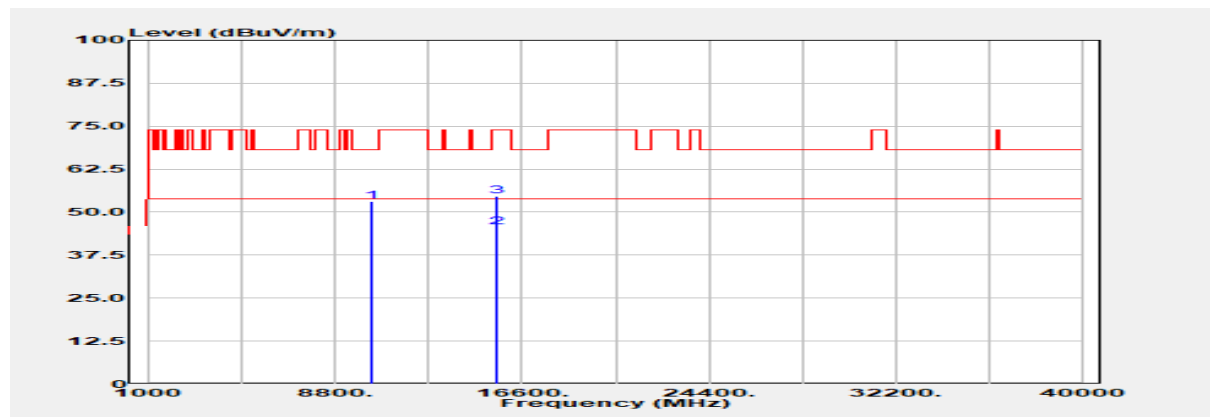
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Report Number :E2/2021/70055
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5180 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.4/56
 Antenna Pol. :Horizontal
 Engineer :Enzo Chang



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
10360.000	Peak	30.61	22.53	53.14	68.20	-15.06
15540.000	Average	20.02	25.60	45.62	54.00	-8.38
15540.000	Peak	29.06	25.60	54.67	74.00	-19.33

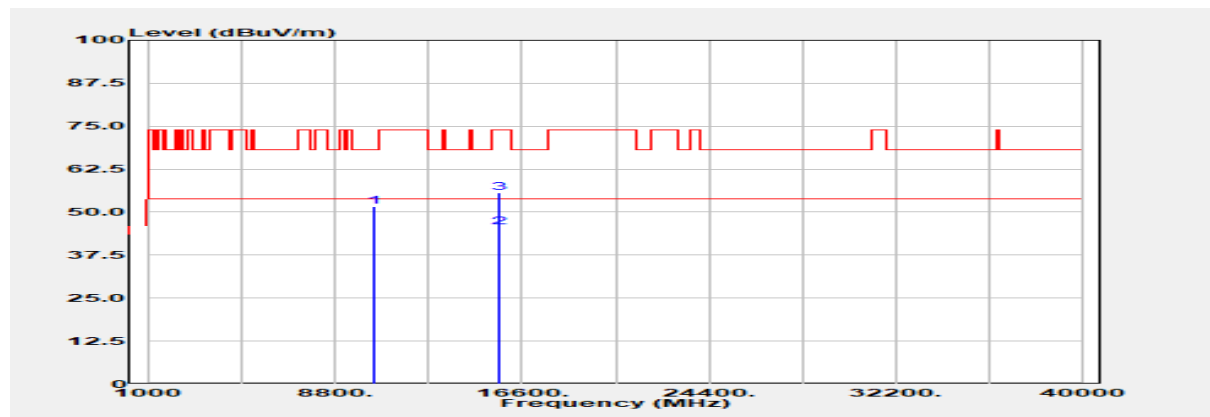
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Report Number :E2/2021/70055
 Operation Mode :802.11n20 / Band 1
 Test Frequency :5220 MHz
 Test Mode :TX CH MID
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.4/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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
10440.000	Peak	29.16	22.54	51.70	68.20	-16.50
15660.000	Average	19.69	25.83	45.52	54.00	-8.48
15660.000	Peak	29.88	25.83	55.71	74.00	-18.29

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 1

Test Date :2021-08-03

Test Frequency :5220 MHz

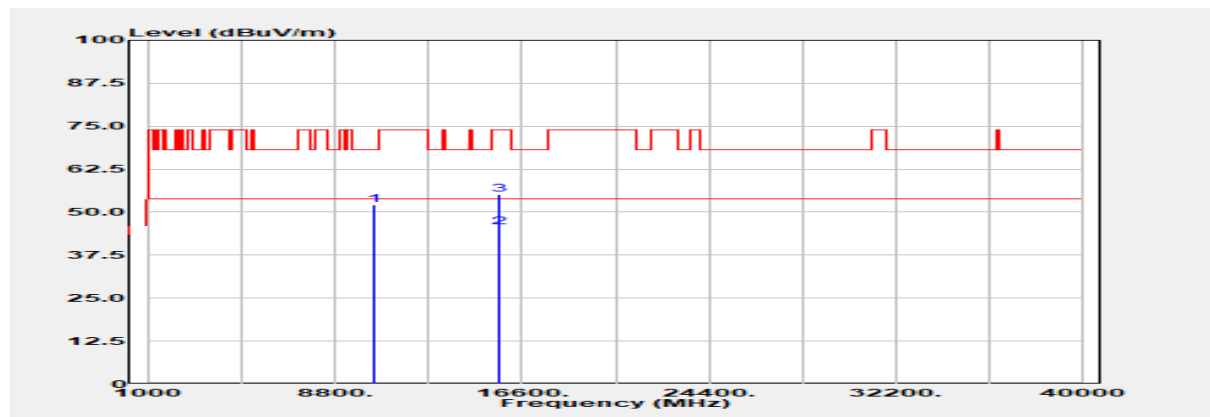
Temp./Humi. :23.4/56

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10440.000	Peak	29.68	22.54	52.22	68.20	-15.98
15660.000	Average	19.71	25.83	45.54	54.00	-8.46
15660.000	Peak	29.38	25.83	55.20	74.00	-18.80

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 1

Test Date :2021-08-03

Test Frequency :5240 MHz

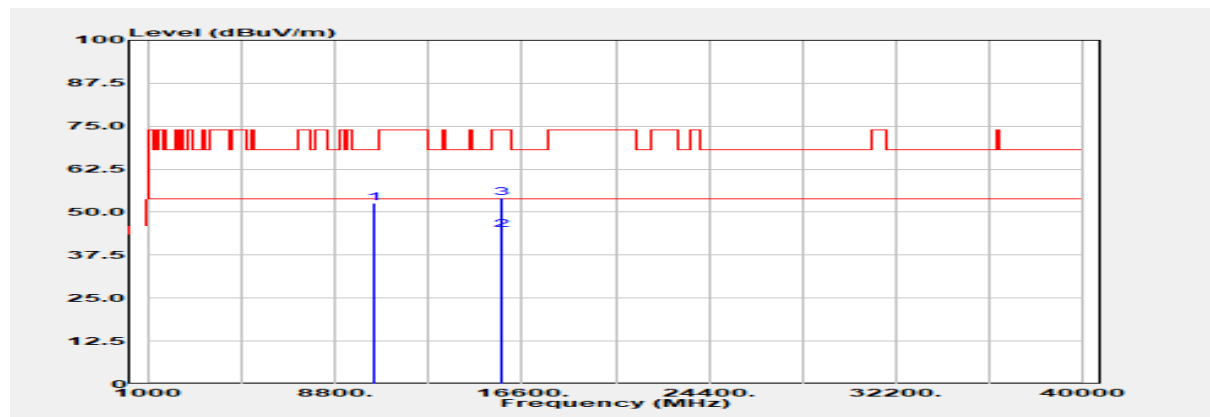
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10480.000	Peak	29.42	23.19	52.61	68.20	-15.59
15720.000	Average	19.82	24.99	44.81	54.00	-9.19
15720.000	Peak	29.27	24.99	54.26	74.00	-19.74

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 1

Test Date :2021-08-03

Test Frequency :5240 MHz

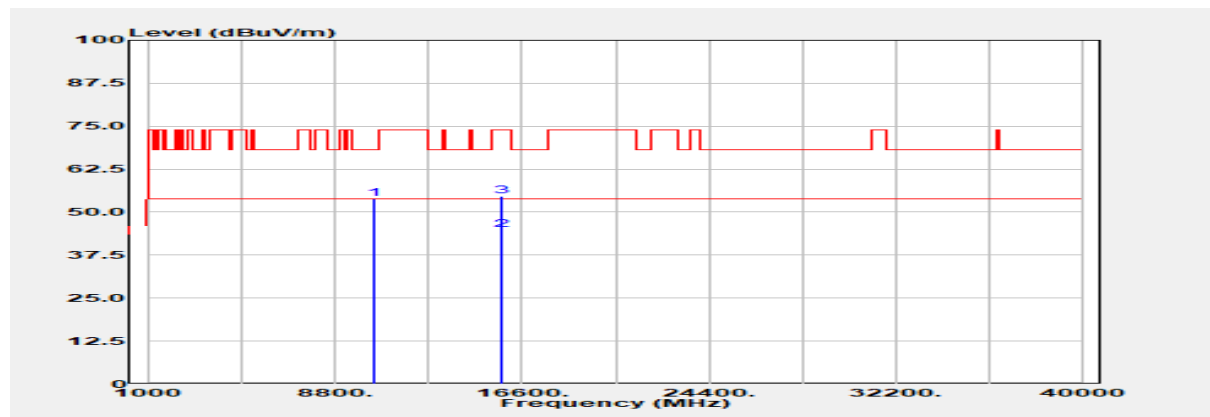
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10480.000	Peak	30.72	23.19	53.91	68.20	-14.29
15720.000	Average	19.85	24.99	44.84	54.00	-9.16
15720.000	Peak	29.56	24.99	54.55	74.00	-19.45

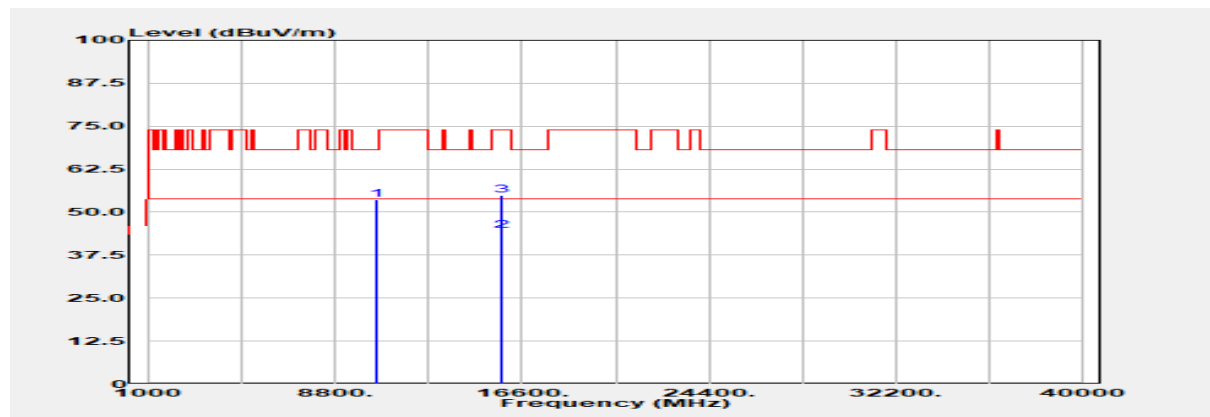
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Report Number :E2/2021/70055
Operation Mode :802.11n20 / Band 2
Test Frequency :5260 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.4/56
Antenna Pol. :Vertical
Engineer :Enzo Chang



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
10520.000	Peak	30.14	23.52	53.65	68.20	-14.55
15780.000	Average	19.76	24.82	44.58	54.00	-9.42
15780.000	Peak	30.02	24.82	54.84	74.00	-19.16

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 2

Test Date :2021-08-03

Test Frequency :5260 MHz

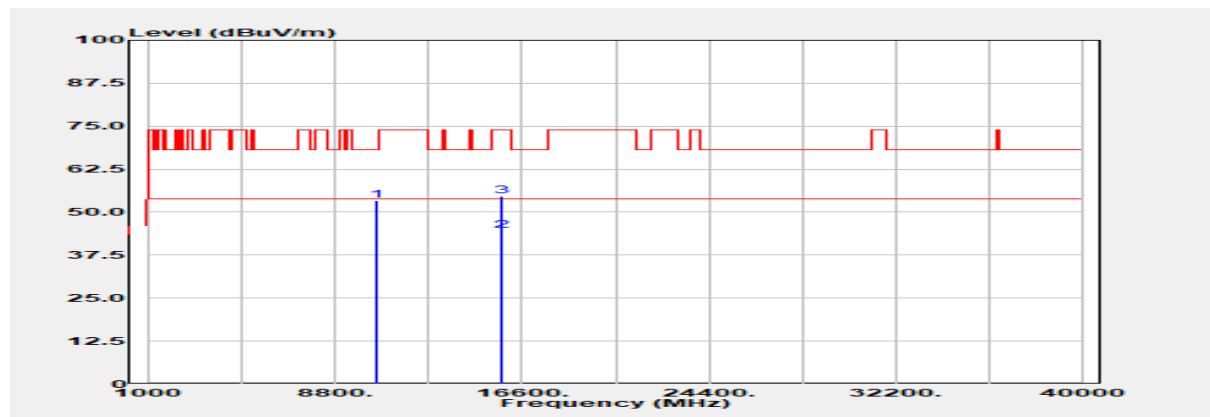
Temp./Humi. :23.4/56

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10520.000	Peak	29.76	23.52	53.28	68.20	-14.92
15780.000	Average	19.69	24.82	44.51	54.00	-9.49
15780.000	Peak	29.91	24.82	54.73	74.00	-19.27

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 2

Test Date :2021-08-03

Test Frequency :5300 MHz

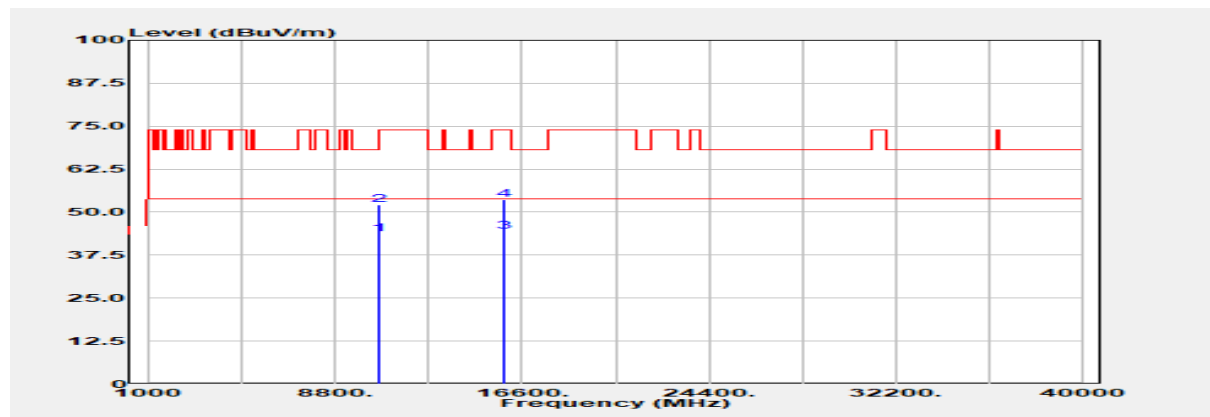
Temp./Humi. :23.4/56

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10600.000	Average	20.40	23.11	43.51	54.00	-10.49
10600.000	Peak	28.91	23.11	52.02	74.00	-21.98
15900.000	Average	20.42	23.84	44.26	54.00	-9.74
15900.000	Peak	29.80	23.84	53.63	74.00	-20.37

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 2

Test Date :2021-08-03

Test Frequency :5300 MHz

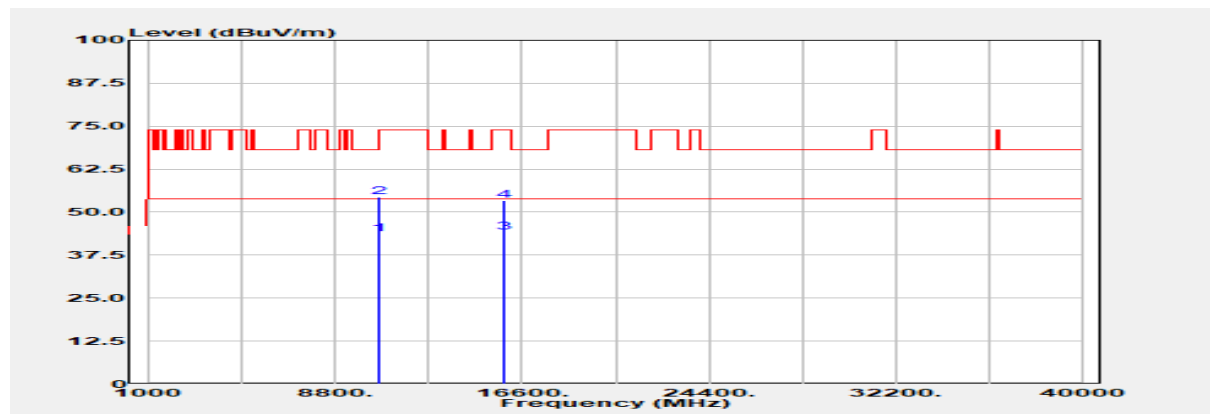
Temp./Humi. :23.4/56

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
10600.000	Average	20.49	23.11	43.60	54.00	-10.40
10600.000	Peak	31.29	23.11	54.40	74.00	-19.60
15900.000	Average	20.32	23.84	44.16	54.00	-9.84
15900.000	Peak	29.47	23.84	53.31	74.00	-20.69

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 2

Test Date :2021-08-03

Test Frequency :5320 MHz

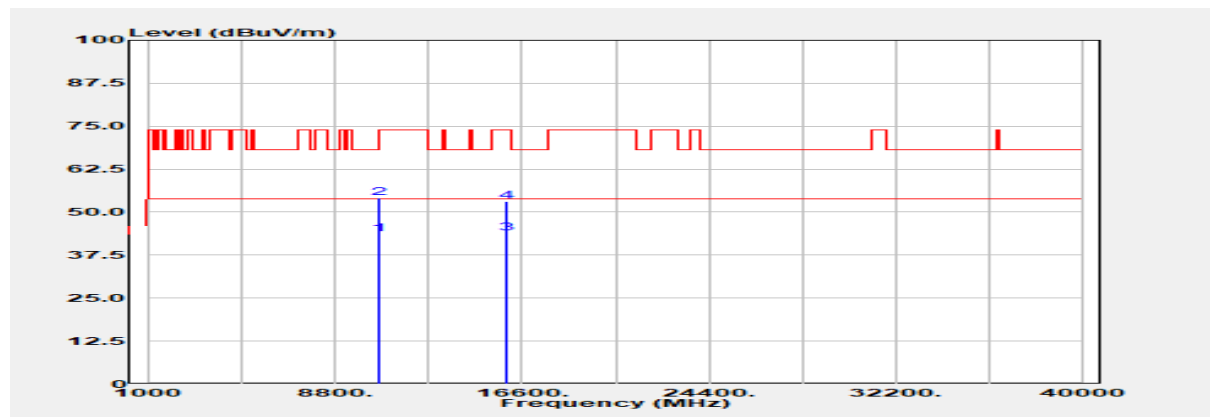
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.000	Average	20.51	23.12	43.63	54.00	-10.37
10640.000	Peak	31.14	23.12	54.26	74.00	-19.74
15960.000	Average	20.45	23.43	43.88	54.00	-10.12
15960.000	Peak	29.78	23.43	53.20	74.00	-20.80

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 2

Test Date :2021-08-03

Test Frequency :5320 MHz

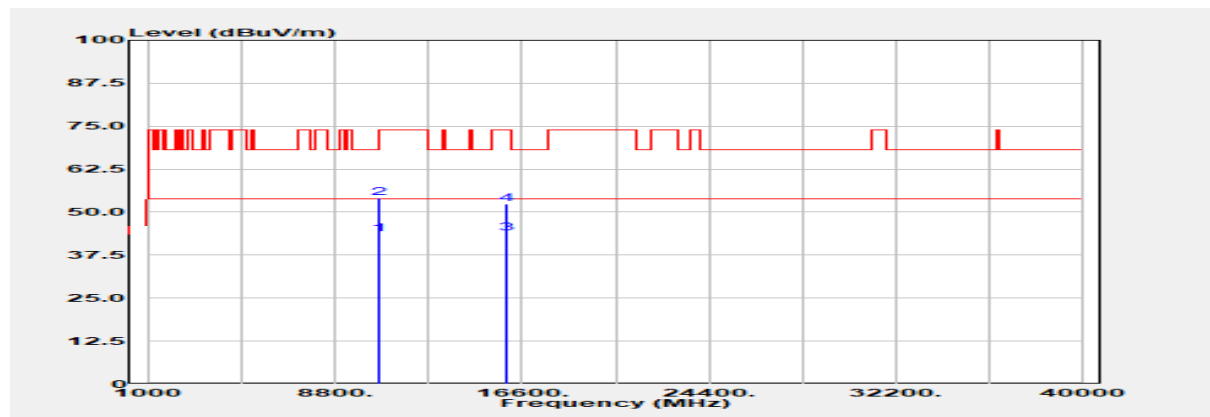
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10640.000	Average	20.44	23.12	43.56	54.00	-10.44
10640.000	Peak	31.10	23.12	54.21	74.00	-19.79
15960.000	Average	20.39	23.43	43.82	54.00	-10.18
15960.000	Peak	29.04	23.43	52.47	74.00	-21.53

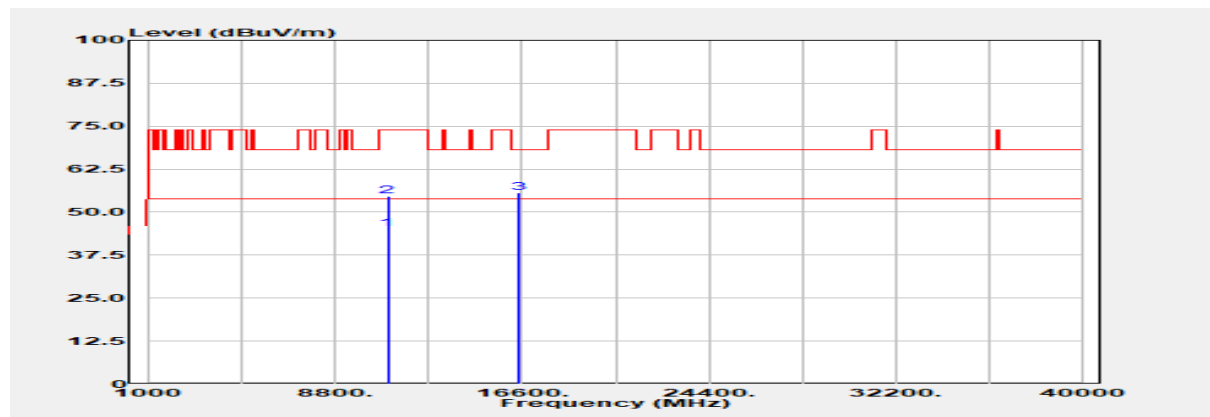
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Report Number :E2/2021/70055
 Operation Mode :802.11n20 / Band 3
 Test Frequency :5500 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.4/56
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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
11000.000	Average	20.47	24.74	45.21	54.00	-8.79
11000.000	Peak	29.82	24.74	54.56	74.00	-19.44
16500.000	Peak	29.48	26.06	55.54	68.20	-12.66

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 3

Test Date :2021-08-03

Test Frequency :5500 MHz

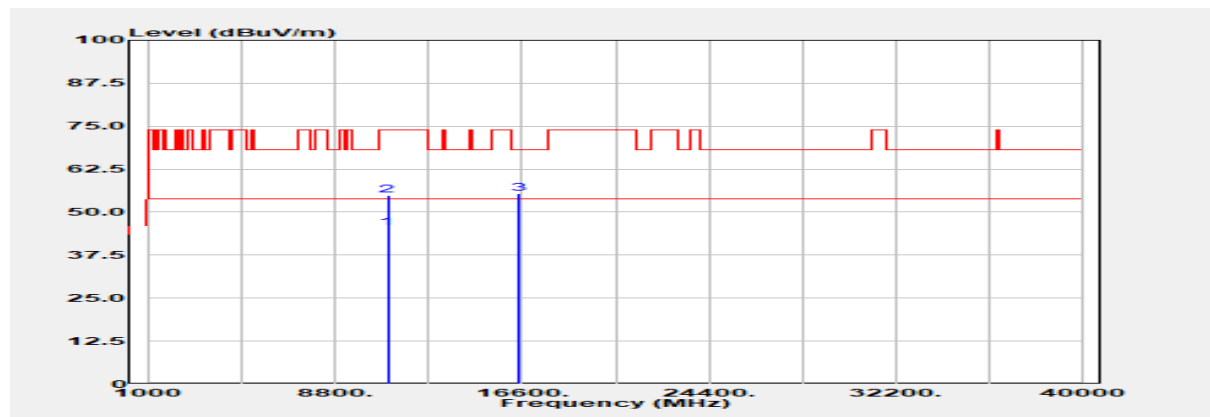
Temp./Humi. :23.4/56

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11000.000	Average	20.53	24.74	45.27	54.00	-8.73
11000.000	Peak	30.24	24.74	54.98	74.00	-19.02
16500.000	Peak	29.25	26.06	55.31	68.20	-12.89

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 3

Test Date :2021-08-03

Test Frequency :5580 MHz

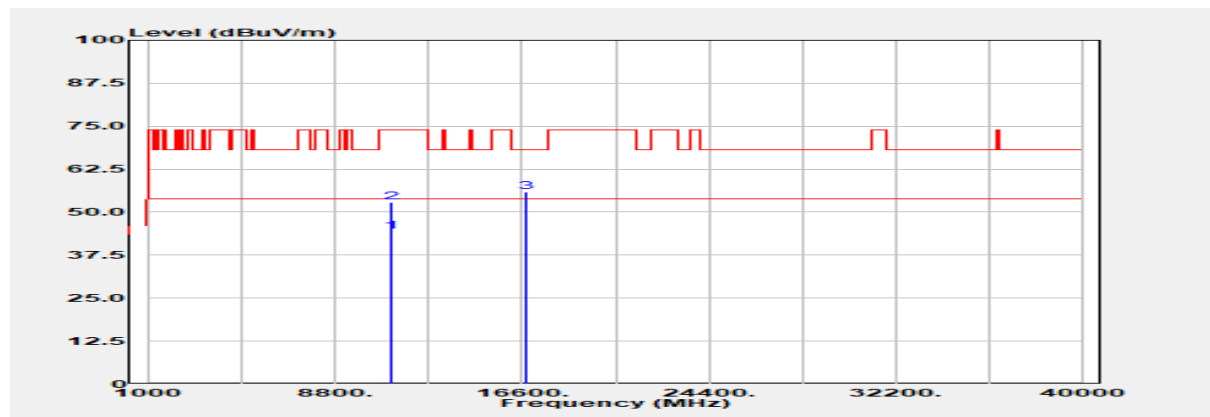
Temp./Humi. :23.4/56

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	20.35	24.01	44.36	54.00	-9.64
11160.000	Peak	28.90	24.01	52.91	74.00	-21.09
16740.000	Peak	29.77	26.11	55.88	68.20	-12.32

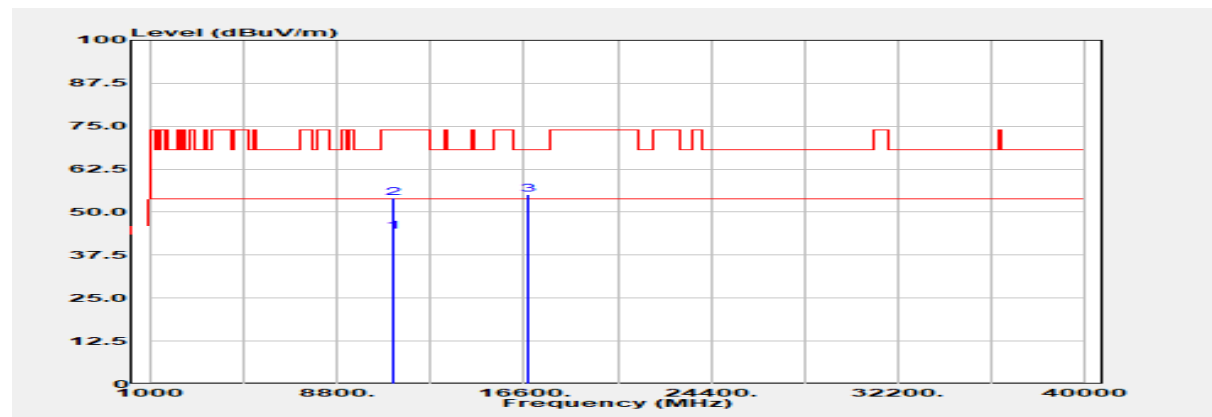
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Report Number :E2/2021/70055
Operation Mode :802.11n20 / Band 3
Test Frequency :5580 MHz
Test Mode :TX CH MID
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.4/56
Antenna Pol. :Horizontal
Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11160.000	Average	20.41	24.01	44.42	54.00	-9.58
11160.000	Peak	30.01	24.01	54.02	74.00	-19.98
16740.000	Peak	29.11	26.11	55.22	68.20	-12.98

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 3

Test Date :2021-08-03

Test Frequency :5700 MHz

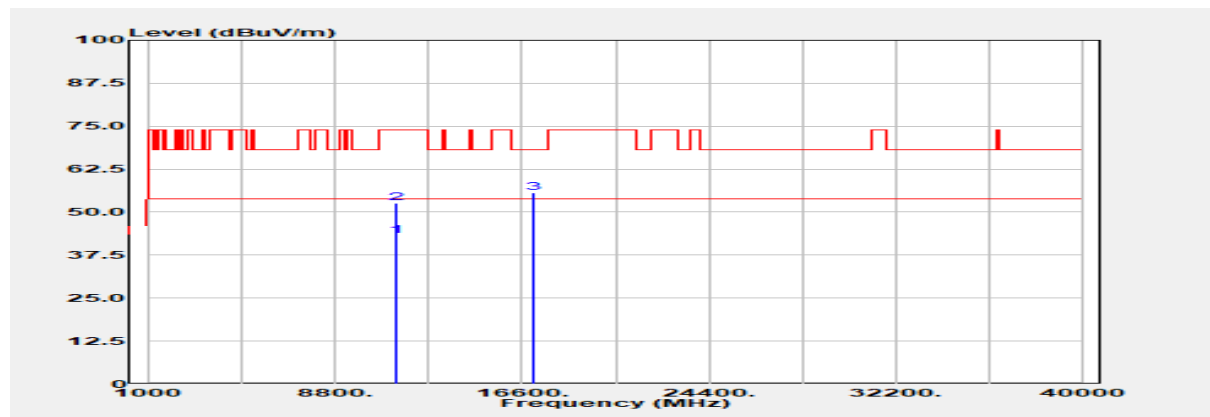
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.000	Average	20.38	22.73	43.11	54.00	-10.89
11400.000	Peak	29.79	22.73	52.52	74.00	-21.48
17100.000	Peak	29.58	25.93	55.52	68.20	-12.68

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 3

Test Date :2021-08-03

Test Frequency :5700 MHz

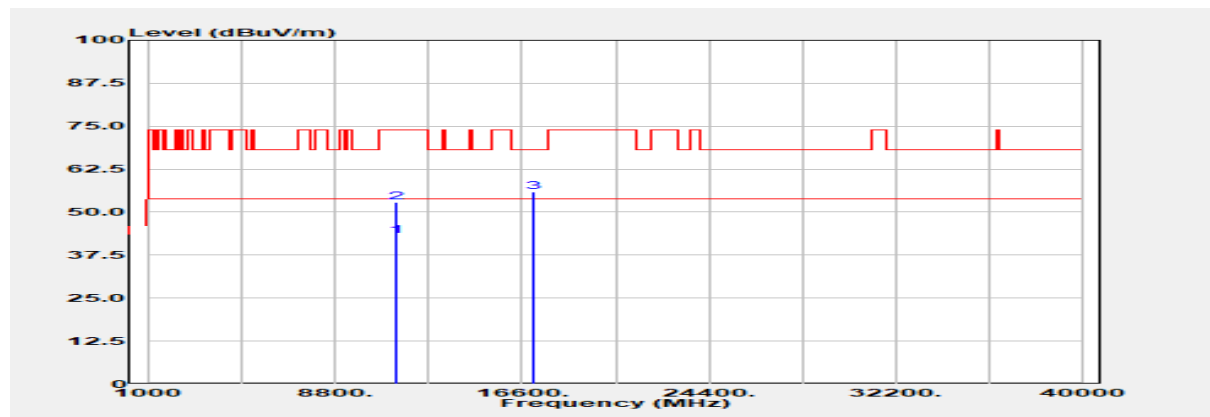
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11400.000	Average	20.42	22.73	43.15	54.00	-10.85
11400.000	Peak	30.24	22.73	52.97	74.00	-21.03
17100.000	Peak	29.86	25.93	55.79	68.20	-12.41

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 3-4

Test Date :2021-08-03

Test Frequency :5720 MHz

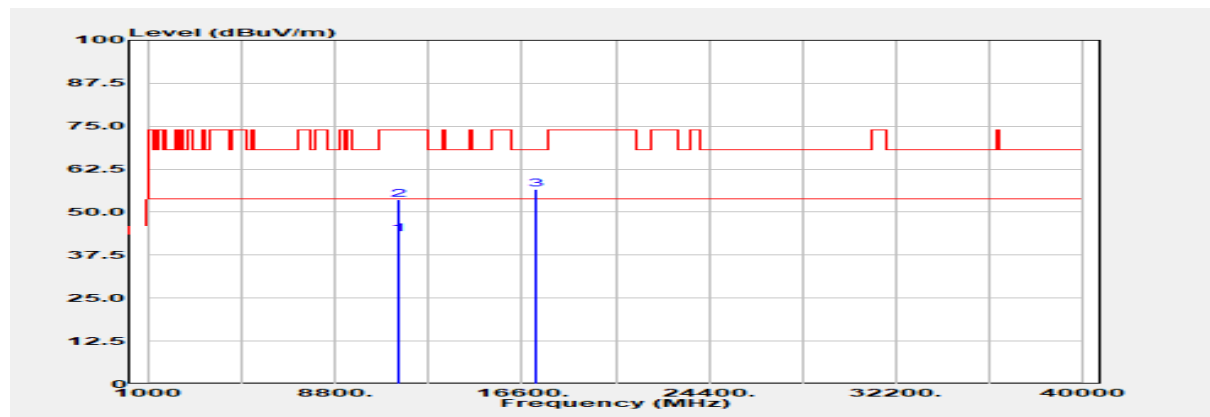
Temp./Humi. :23.4/56

Test Mode :TX CH 144

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11440.000	Average	20.32	23.40	43.72	54.00	-10.28
11440.000	Peak	30.26	23.40	53.66	74.00	-20.34
17160.000	Peak	30.43	26.22	56.65	68.20	-11.55

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 3-4

Test Date :2021-08-03

Test Frequency :5720 MHz

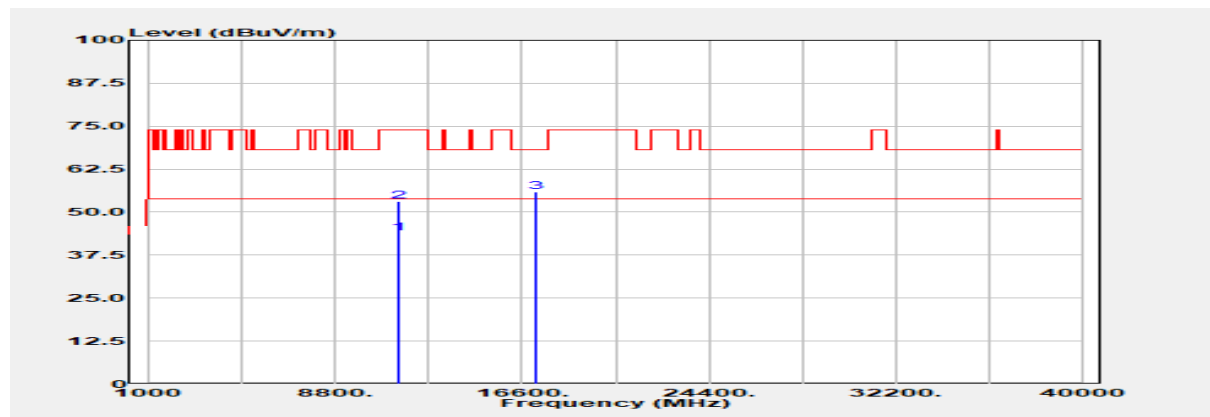
Temp./Humi. :23.4/56

Test Mode :TX CH 144

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11440.000	Average	20.40	23.40	43.80	54.00	-10.20
11440.000	Peak	29.85	23.40	53.25	74.00	-20.75
17160.000	Peak	29.57	26.22	55.79	68.20	-12.41

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 4

Test Date :2021-08-03

Test Frequency :5745 MHz

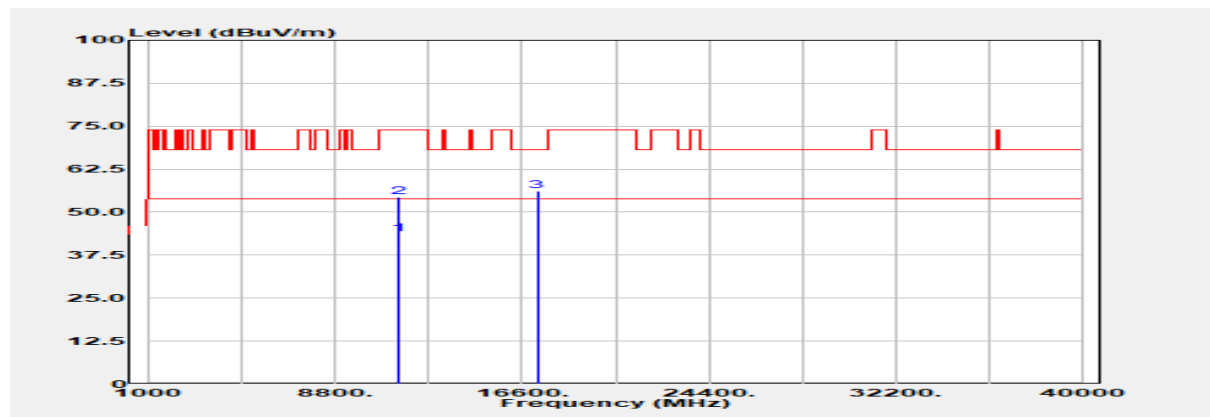
Temp./Humi. :23.4/56

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
11490.000	Average	20.49	23.20	43.69	54.00	-10.31
11490.000	Peak	31.19	23.20	54.38	74.00	-19.62
17235.000	Peak	29.62	26.56	56.18	68.20	-12.02

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 4

Test Date :2021-08-03

Test Frequency :5745 MHz

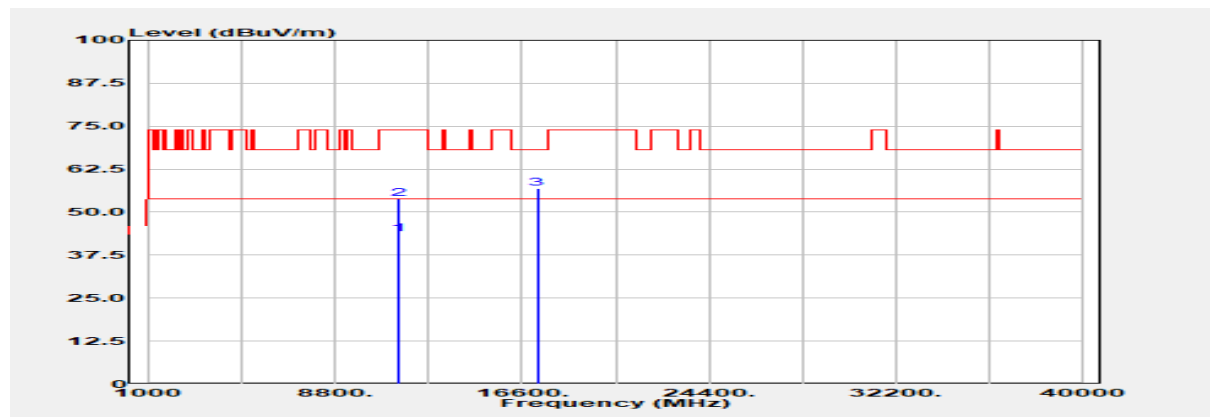
Temp./Humi. :23.4/56

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11490.000	Average	20.44	23.20	43.64	54.00	-10.36
11490.000	Peak	30.60	23.20	53.80	74.00	-20.20
17235.000	Peak	30.41	26.56	56.98	68.20	-11.22

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 4

Test Date :2021-08-03

Test Frequency :5785 MHz

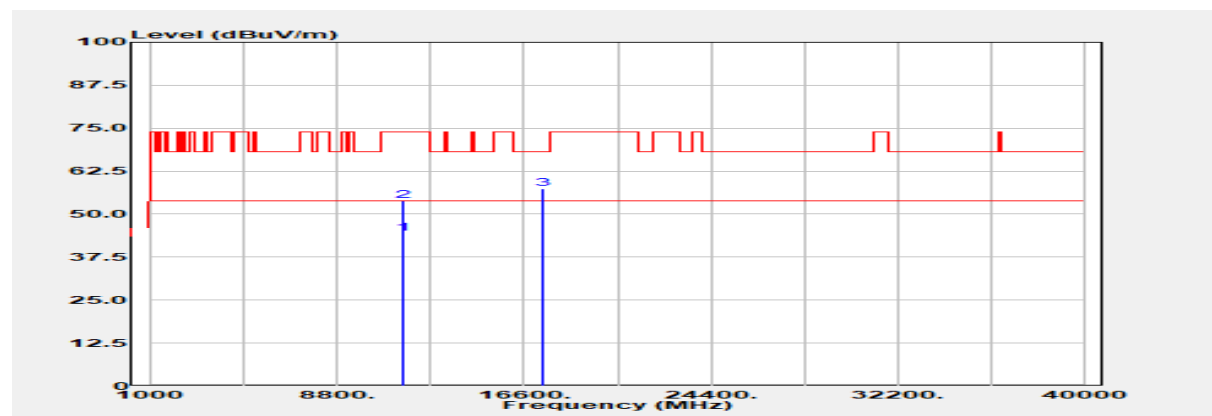
Temp./Humi. :23.4/56

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
11570.000	Average	20.47	23.93	44.40	54.00	-9.60
11570.000	Peak	29.93	23.93	53.86	74.00	-20.14
17355.000	Peak	29.49	27.97	57.46	68.20	-10.74

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 4

Test Date :2021-08-03

Test Frequency :5785 MHz

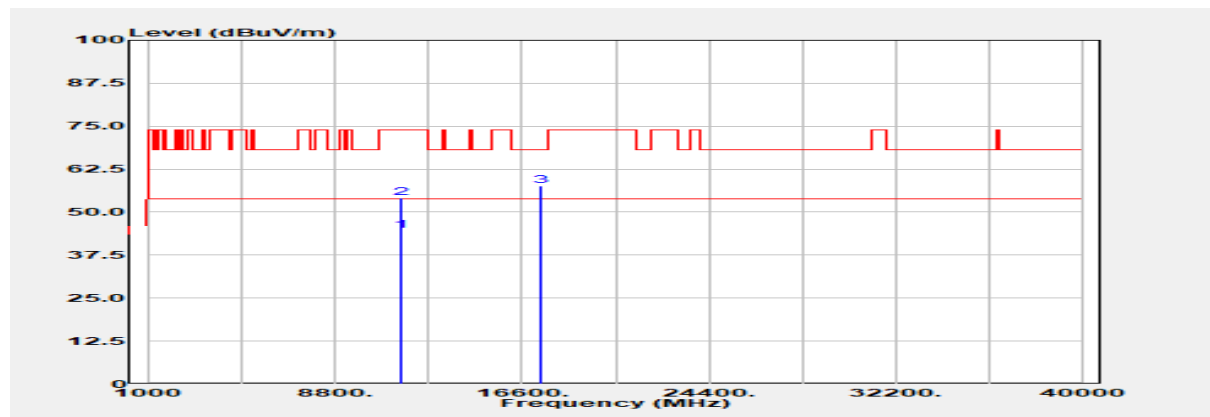
Temp./Humi. :23.4/56

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
11570.000	Average	20.56	23.93	44.49	54.00	-9.51
11570.000	Peak	30.16	23.93	54.09	74.00	-19.91
17355.000	Peak	29.74	27.97	57.71	68.20	-10.49

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 4

Test Date :2021-08-03

Test Frequency :5825 MHz

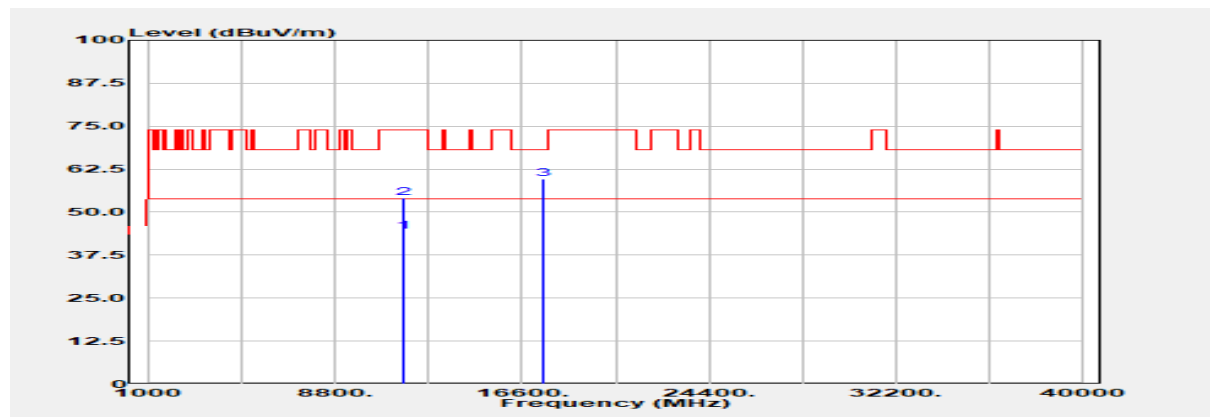
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11650.000	Average	20.44	24.02	44.46	54.00	-9.54
11650.000	Peak	30.01	24.02	54.02	74.00	-19.98
17475.000	Peak	30.24	29.49	59.73	68.20	-8.47

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n20 / Band 4

Test Date :2021-08-03

Test Frequency :5825 MHz

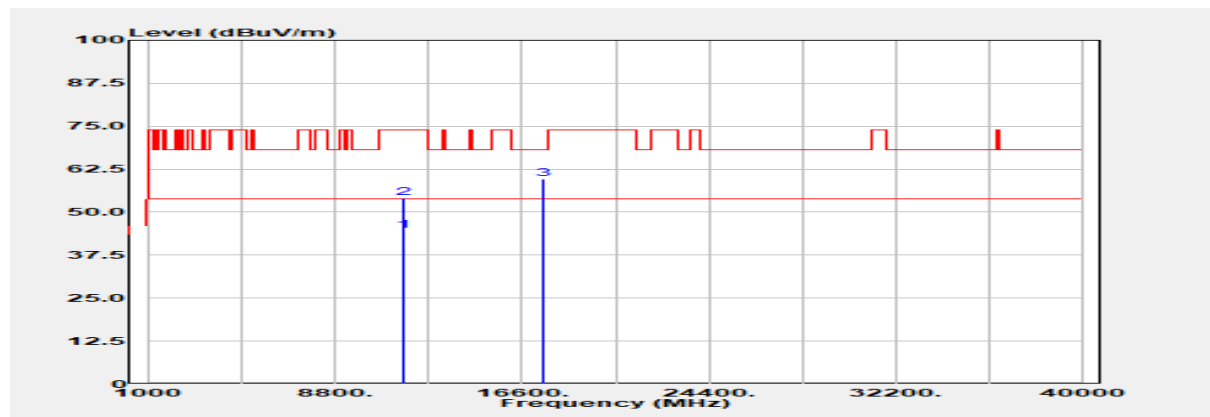
Temp./Humi. :23.4/56

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11650.000	Average	20.47	24.02	44.49	54.00	-9.51
11650.000	Peak	30.02	24.02	54.04	74.00	-19.96
17475.000	Peak	30.23	29.49	59.72	68.20	-8.48

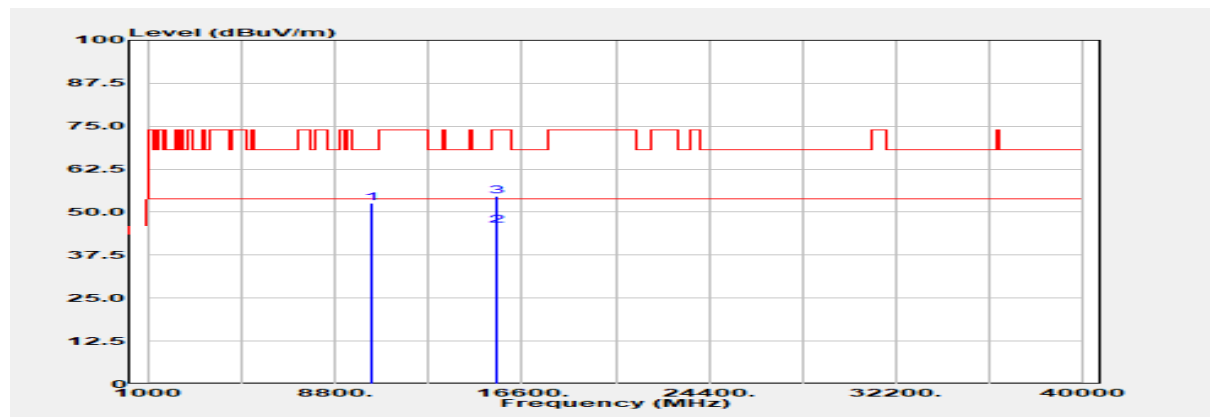
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Report Number :E2/2021/70055
 Operation Mode :802.11n40 / Band 1
 Test Frequency :5190 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.5/57
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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
10380.000	Peak	29.96	22.75	52.71	68.20	-15.49
15570.000	Average	20.37	25.78	46.15	54.00	-7.85
15570.000	Peak	28.95	25.78	54.73	74.00	-19.27

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 1

Test Date :2021-08-03

Test Frequency :5190 MHz

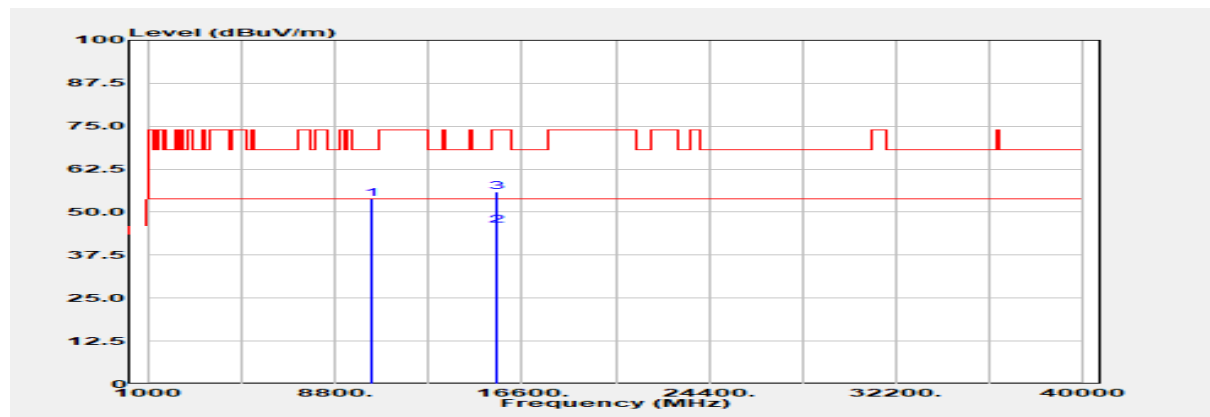
Temp./Humi. :23.5/57

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10380.000	Peak	31.05	22.75	53.80	68.20	-14.40
15570.000	Average	20.42	25.78	46.20	54.00	-7.80
15570.000	Peak	30.11	25.78	55.89	74.00	-18.11

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 1

Test Date :2021-08-03

Test Frequency :5230 MHz

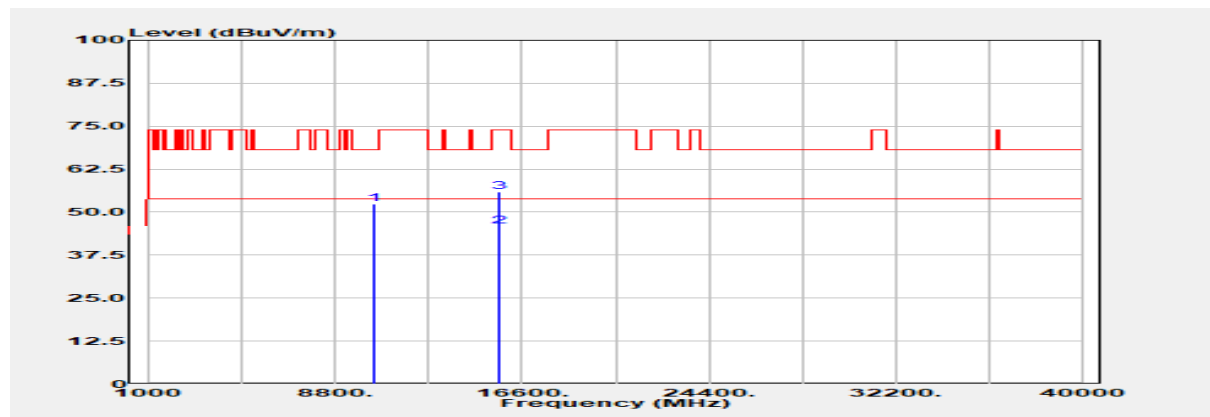
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10460.000	Peak	29.78	22.69	52.46	68.20	-15.74
15690.000	Average	20.51	25.34	45.85	54.00	-8.15
15690.000	Peak	30.58	25.34	55.92	74.00	-18.08

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 1

Test Date :2021-08-03

Test Frequency :5230 MHz

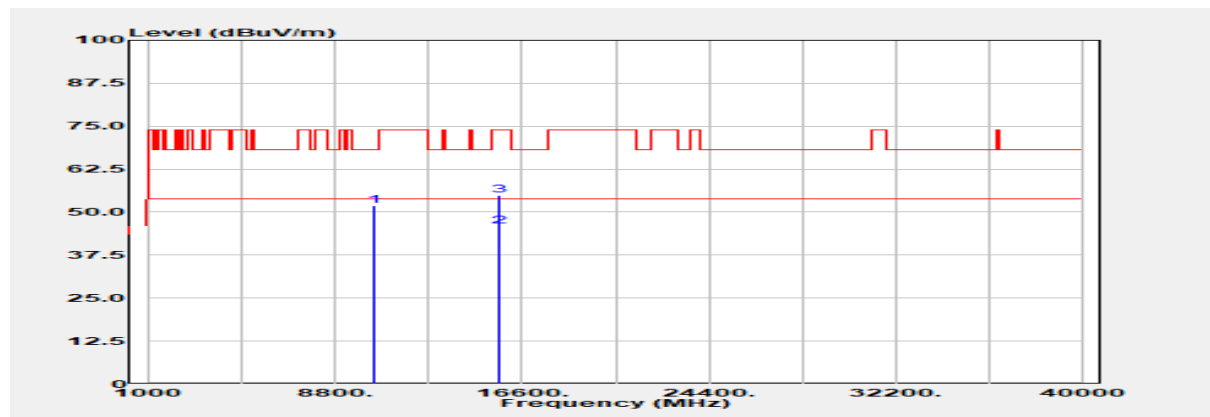
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10460.000	Peak	29.13	22.69	51.82	68.20	-16.38
15690.000	Average	20.55	25.34	45.89	54.00	-8.11
15690.000	Peak	29.44	25.34	54.77	74.00	-19.23

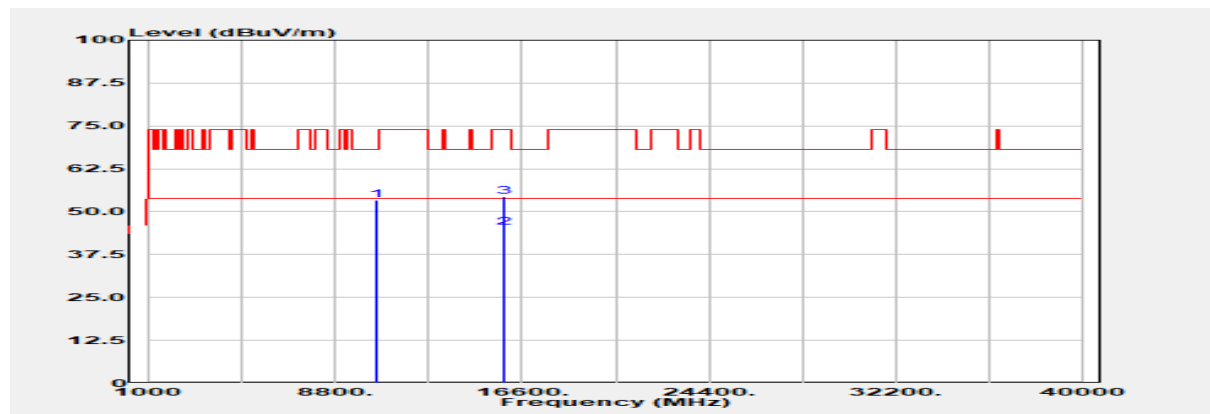
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Report Number :E2/2021/70055
 Operation Mode :802.11n40 / Band 2
 Test Frequency :5270 MHz
 Test Mode :TX CH LOW
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.5/57
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.000	Peak	30.00	23.34	53.34	68.20	-14.86
15810.000	Average	20.52	24.73	45.25	54.00	-8.75
15810.000	Peak	29.71	24.73	54.44	74.00	-19.56

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 2

Test Date :2021-08-03

Test Frequency :5270 MHz

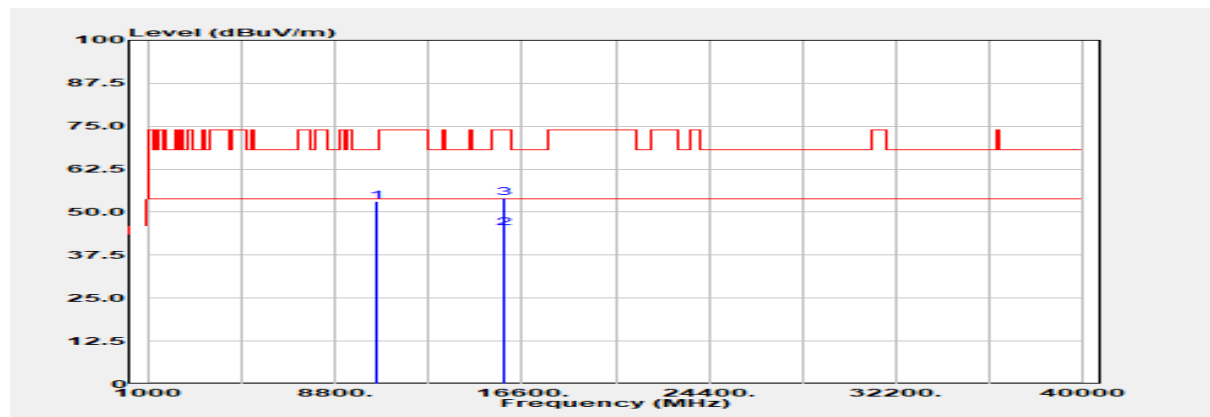
Temp./Humi. :23.5/57

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10540.000	Peak	29.68	23.34	53.02	68.20	-15.18
15810.000	Average	20.51	24.73	45.24	54.00	-8.76
15810.000	Peak	29.44	24.73	54.17	74.00	-19.83

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 2

Test Date :2021-08-03

Test Frequency :5310 MHz

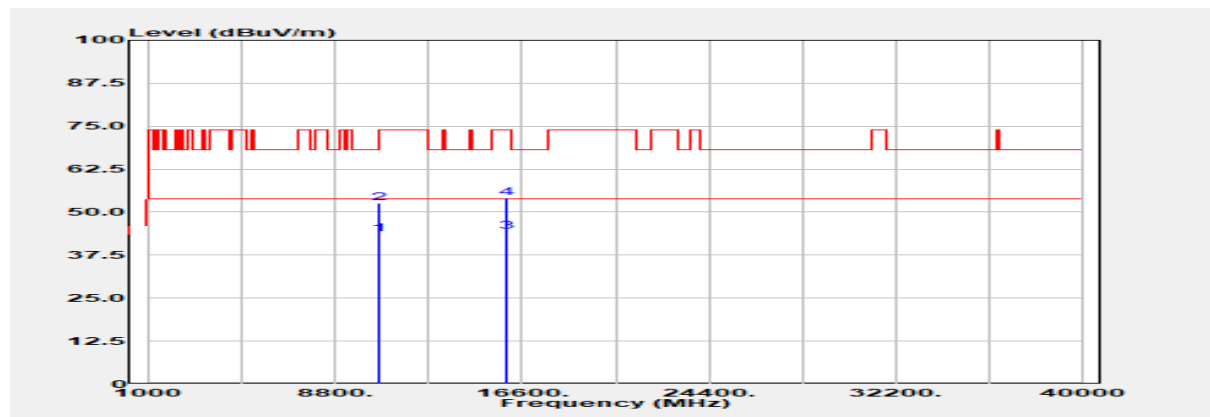
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.000	Average	20.51	23.12	43.63	54.00	-10.37
10620.000	Peak	29.61	23.12	52.72	74.00	-21.28
15930.000	Average	20.66	23.69	44.35	54.00	-9.65
15930.000	Peak	30.51	23.69	54.20	74.00	-19.80

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 2

Test Date :2021-08-03

Test Frequency :5310 MHz

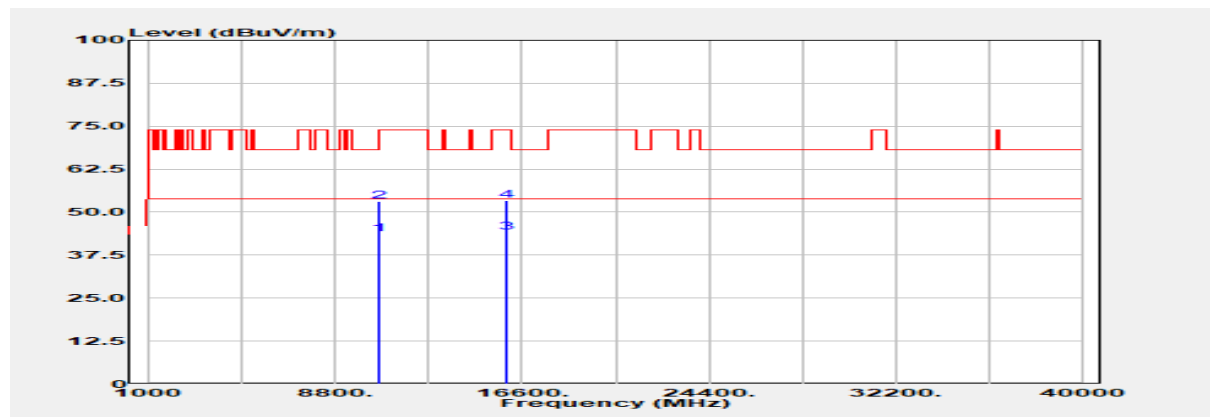
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
10620.000	Average	20.38	23.12	43.50	54.00	-10.50
10620.000	Peak	30.01	23.12	53.13	74.00	-20.87
15930.000	Average	20.42	23.69	44.11	54.00	-9.89
15930.000	Peak	29.58	23.69	53.27	74.00	-20.73

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3

Test Date :2021-08-03

Test Frequency :5510 MHz

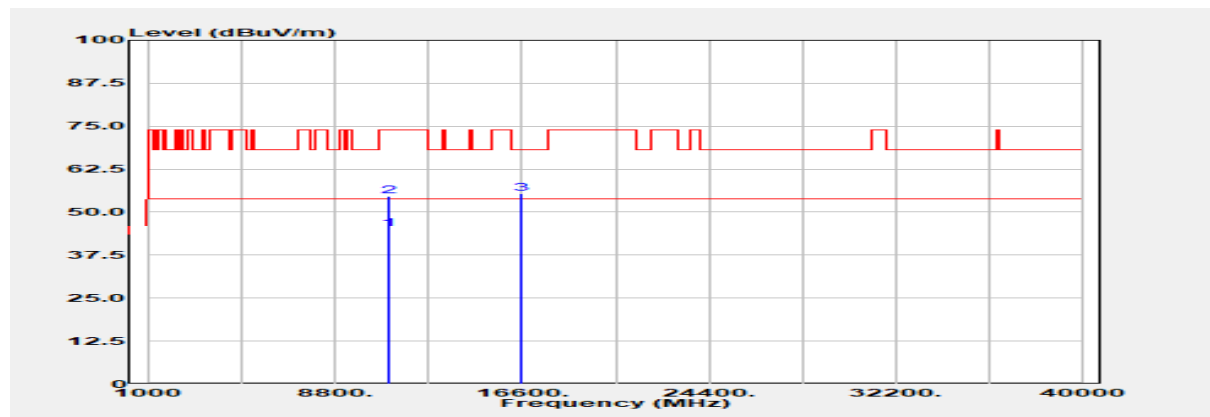
Temp./Humi. :23.5/57

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11020.000	Average	20.62	24.56	45.18	54.00	-8.82
11020.000	Peak	29.98	24.56	54.54	74.00	-19.46
16530.000	Peak	29.40	26.08	55.47	68.20	-12.73

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3

Test Date :2021-08-03

Test Frequency :5510 MHz

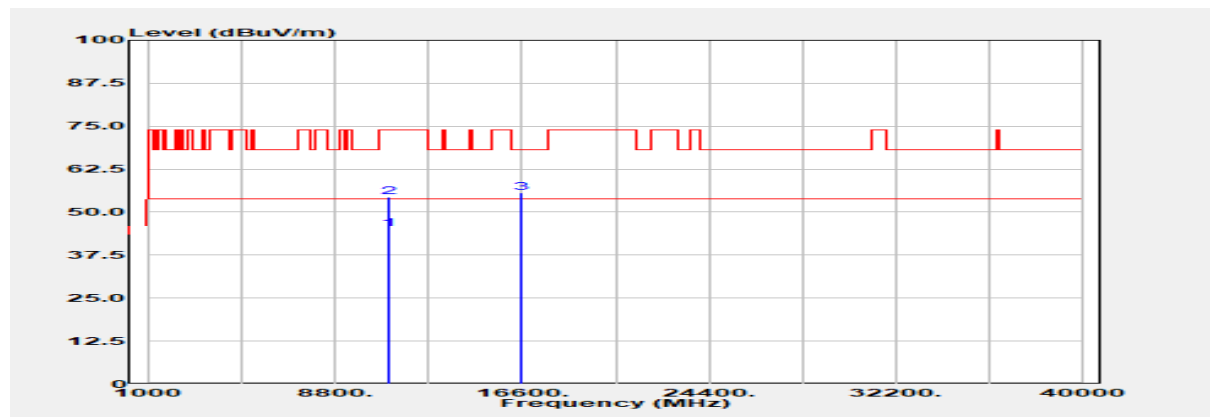
Temp./Humi. :23.5/57

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11020.000	Average	20.55	24.56	45.11	54.00	-8.89
11020.000	Peak	29.88	24.56	54.44	74.00	-19.56
16530.000	Peak	29.53	26.08	55.61	68.20	-12.59

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3

Test Date :2021-08-03

Test Frequency :5550 MHz

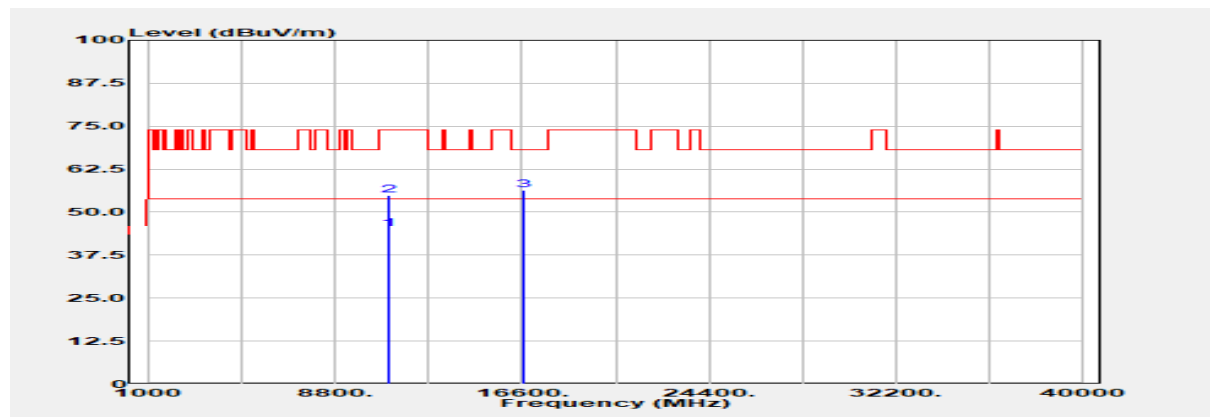
Temp./Humi. :23.5/57

Test Mode :TX CH MID

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11100.000	Average	20.59	24.44	45.03	54.00	-8.97
11100.000	Peak	30.37	24.44	54.81	74.00	-19.19
16650.000	Peak	30.31	26.10	56.41	68.20	-11.79

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3

Test Date :2021-08-03

Test Frequency :5550 MHz

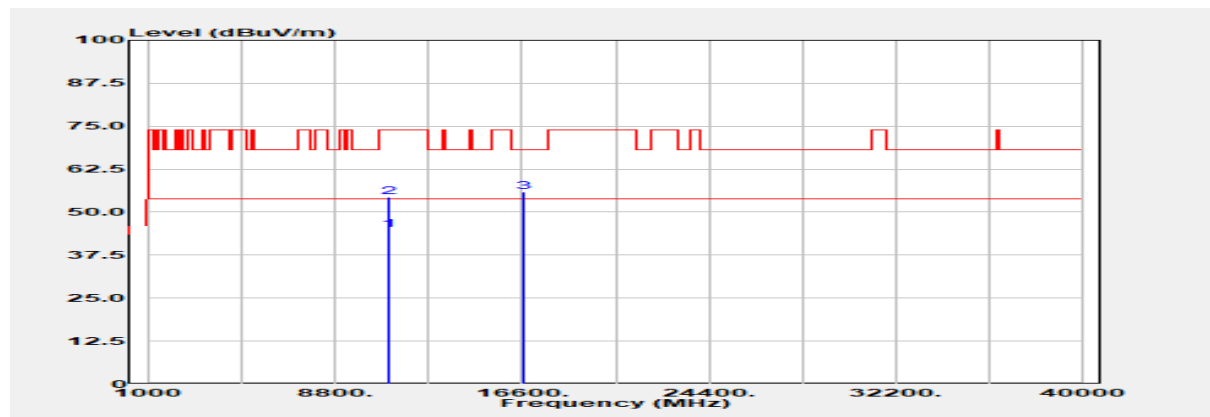
Temp./Humi. :23.5/57

Test Mode :TX CH MID

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11100.000	Average	20.42	24.44	44.86	54.00	-9.14
11100.000	Peak	29.92	24.44	54.36	74.00	-19.64
16650.000	Peak	29.90	26.10	56.00	68.20	-12.20

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3

Test Date :2021-08-03

Test Frequency :5670 MHz

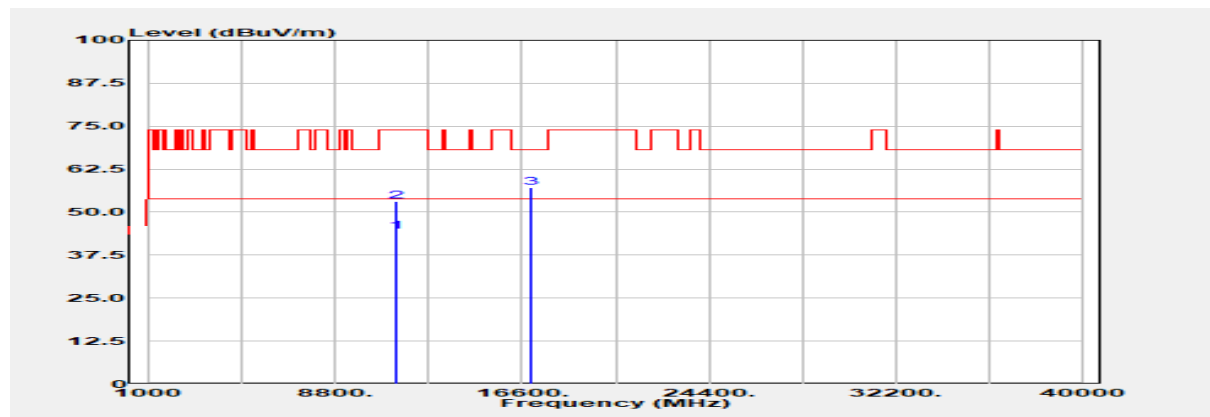
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11340.000	Average	20.55	23.71	44.26	54.00	-9.74
11340.000	Peak	29.32	23.71	53.03	74.00	-20.97
17010.000	Peak	30.17	27.03	57.20	68.20	-11.00

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3

Test Date :2021-08-03

Test Frequency :5670 MHz

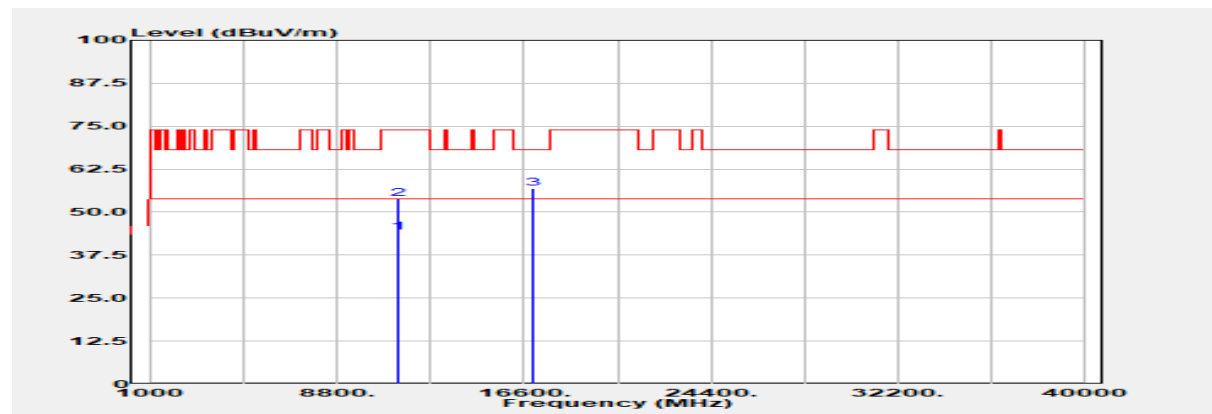
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11340.000	Average	20.51	23.71	44.22	54.00	-9.78
11340.000	Peak	30.05	23.71	53.76	74.00	-20.24
17010.000	Peak	29.78	27.03	56.81	68.20	-11.39

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3-4

Test Date :2021-08-03

Test Frequency :5710 MHz

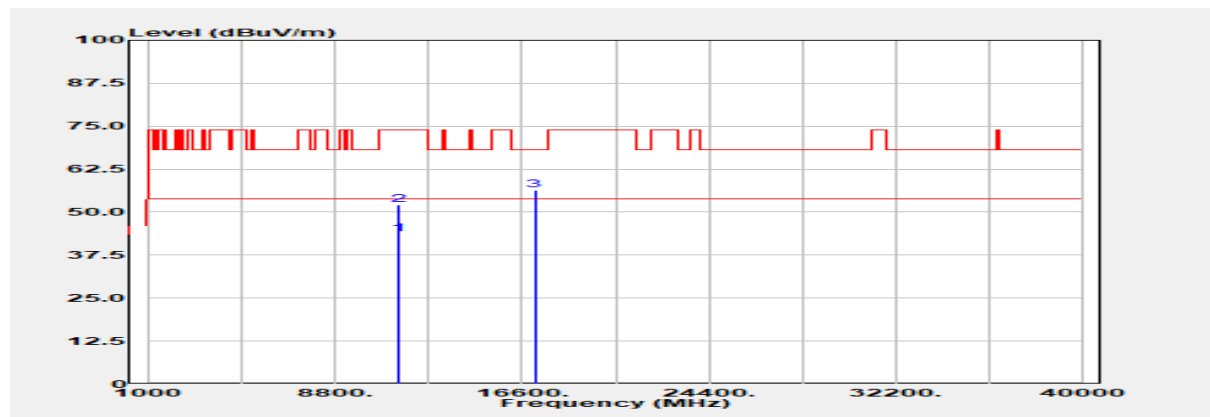
Temp./Humi. :23.5/57

Test Mode :TX CH 142

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11420.000	Average	20.52	23.07	43.59	54.00	-10.41
11420.000	Peak	29.05	23.07	52.12	74.00	-21.88
17130.000	Peak	30.35	26.13	56.48	68.20	-11.72

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 3-4

Test Date :2021-08-03

Test Frequency :5710 MHz

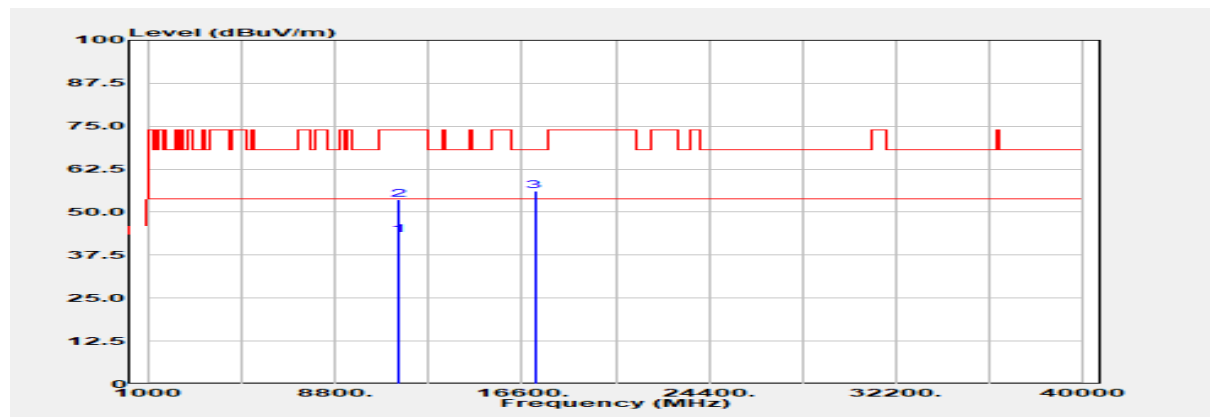
Temp./Humi. :23.5/57

Test Mode :TX CH 142

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11420.000	Average	20.41	23.07	43.48	54.00	-10.52
11420.000	Peak	30.60	23.07	53.67	74.00	-20.33
17130.000	Peak	29.91	26.13	56.04	68.20	-12.16

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 4

Test Date :2021-08-03

Test Frequency :5755 MHz

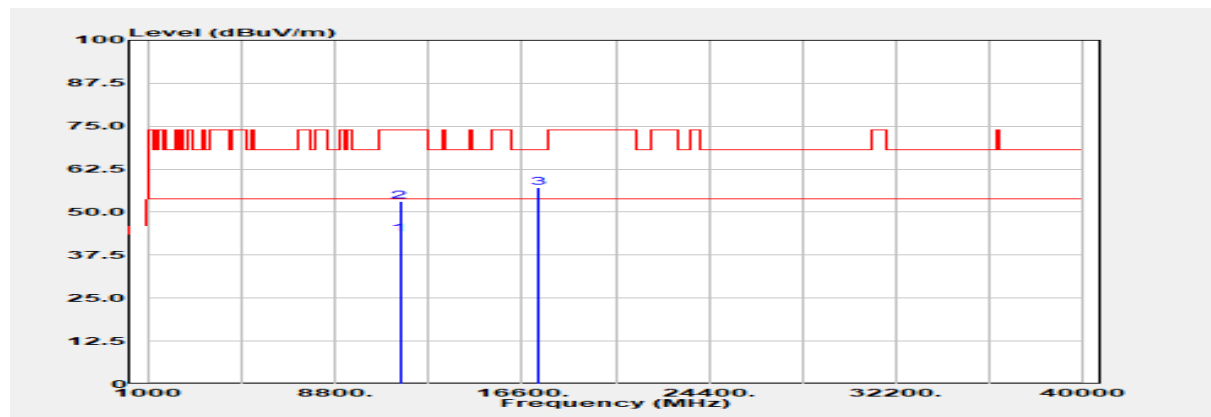
Temp./Humi. :23.5/57

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11510.000	Average	20.47	23.22	43.69	54.00	-10.31
11510.000	Peak	30.00	23.22	53.22	74.00	-20.78
17265.000	Peak	30.30	26.95	57.25	68.20	-10.95

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 4

Test Date :2021-08-03

Test Frequency :5755 MHz

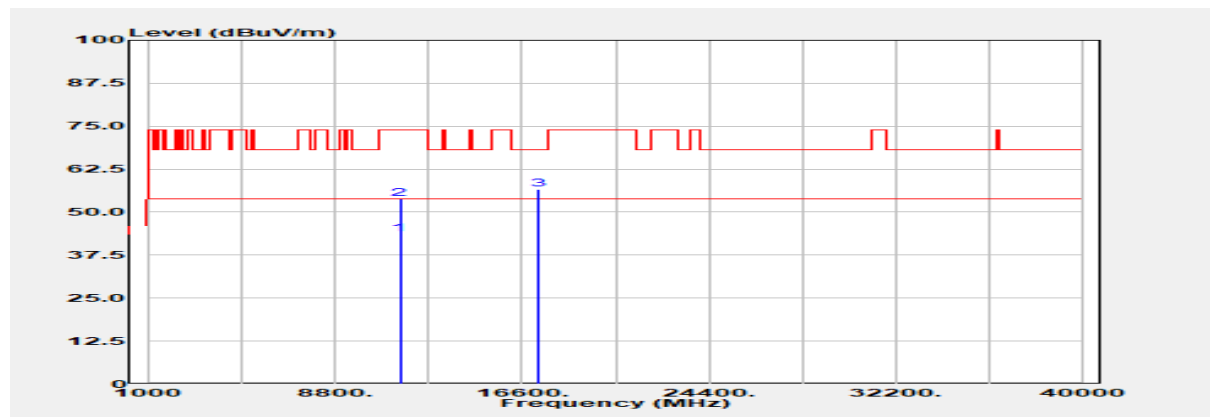
Temp./Humi. :23.5/57

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11510.000	Average	20.41	23.22	43.63	54.00	-10.37
11510.000	Peak	30.60	23.22	53.82	74.00	-20.18
17265.000	Peak	29.69	26.95	56.63	68.20	-11.57

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 4

Test Date :2021-08-03

Test Frequency :5795 MHz

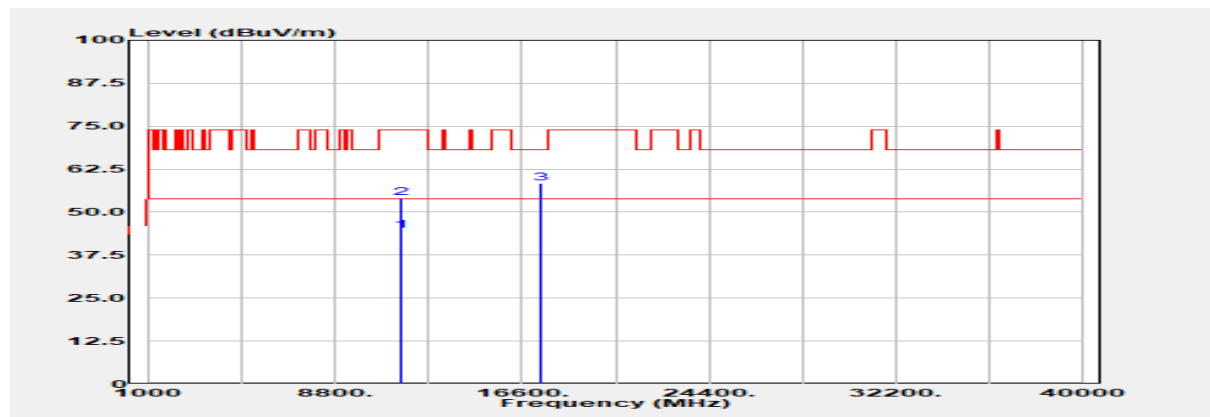
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11590.000	Average	20.52	24.17	44.69	54.00	-9.31
11590.000	Peak	29.85	24.17	54.02	74.00	-19.98
17385.000	Peak	30.18	28.30	58.48	68.20	-9.72

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11n40 / Band 4

Test Date :2021-08-03

Test Frequency :5795 MHz

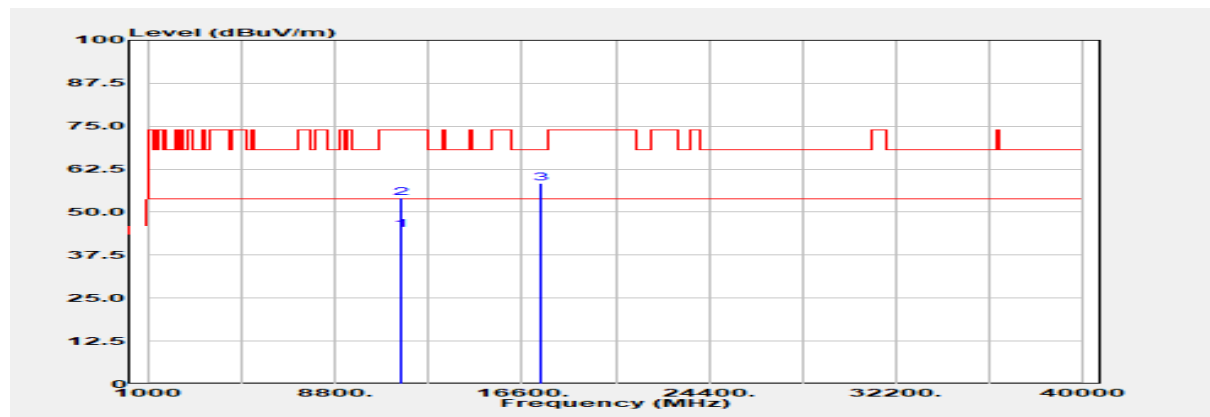
Temp./Humi. :23.5/57

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11590.000	Average	20.58	24.17	44.75	54.00	-9.25
11590.000	Peak	29.87	24.17	54.04	74.00	-19.96
17385.000	Peak	29.98	28.30	58.28	68.20	-9.92

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 1

Test Date :2021-08-03

Test Frequency :5210 MHz

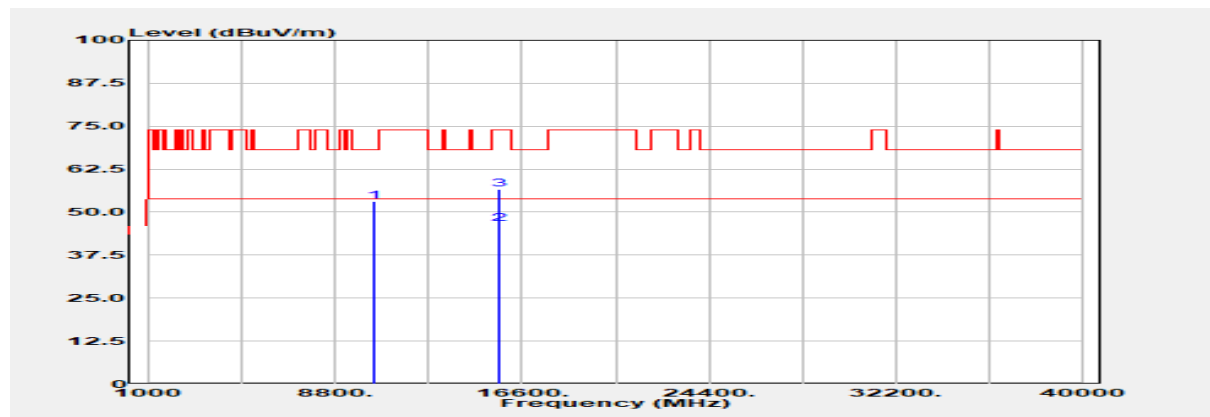
Temp./Humi. :23.7/59

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10420.000	Peak	30.32	22.76	53.08	68.20	-15.12
15630.000	Average	20.74	25.96	46.70	54.00	-7.30
15630.000	Peak	30.80	25.96	56.76	74.00	-17.24

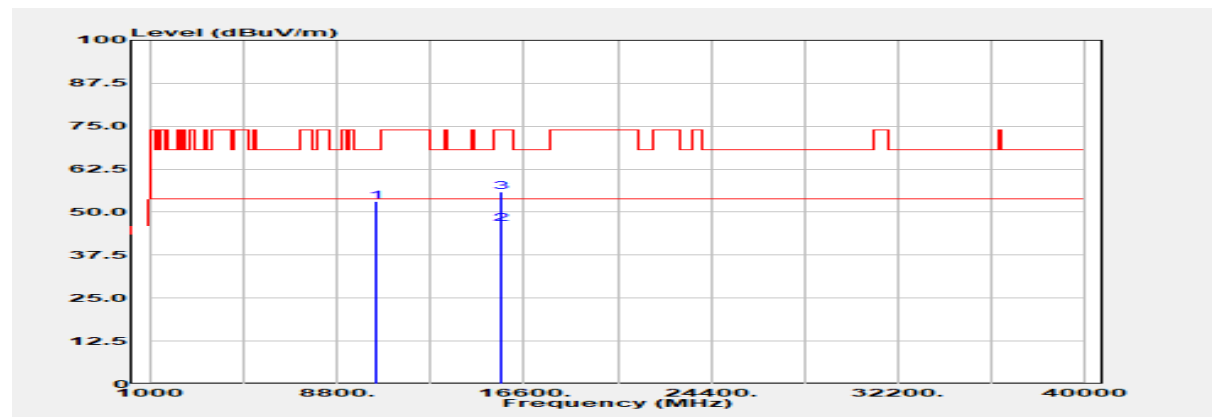
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Report Number :E2/2021/70055
Operation Mode :802.11ac80 / Band 1
Test Frequency :5210 MHz
Test Mode :TX CH LOW
EUT Pol :E2 Plane

Test Site :SAC C
Test Date :2021-08-03
Temp./Humi. :23.7/59
Antenna Pol. :Horizontal
Engineer :Enzo Chang



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
10420.000	Peak	30.47	22.76	53.23	68.20	-14.97
15630.000	Average	20.66	25.96	46.62	54.00	-7.38
15630.000	Peak	29.84	25.96	55.80	74.00	-18.20

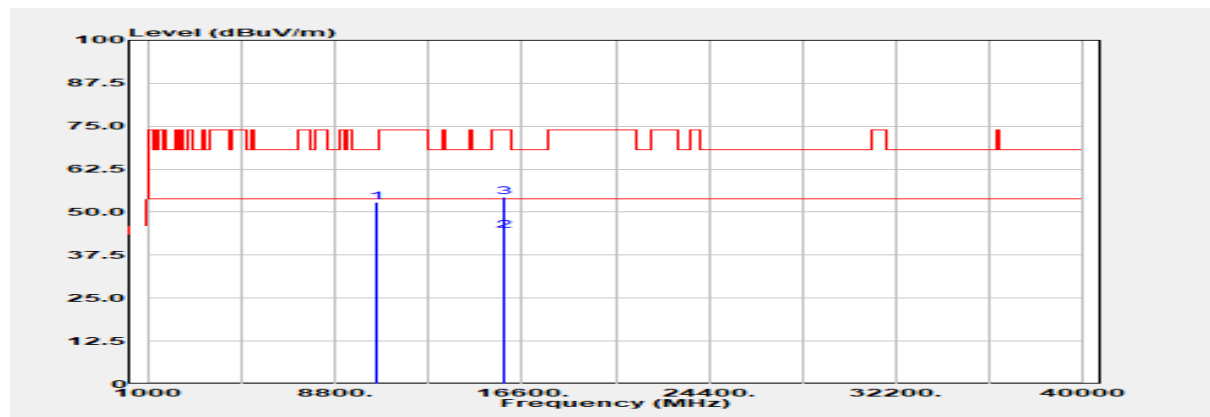
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Report Number :E2/2021/70055
 Operation Mode :802.11ac80 / Band 2
 Test Frequency :5290 MHz
 Test Mode :TX CH HIGH
 EUT Pol :E2 Plane

Test Site :SAC C
 Test Date :2021-08-03
 Temp./Humi. :23.7/59
 Antenna Pol. :Vertical
 Engineer :Enzo Chang



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
10580.000	Peak	29.60	23.17	52.77	68.20	-15.43
15870.000	Average	20.56	24.00	44.56	54.00	-9.44
15870.000	Peak	30.49	24.00	54.49	74.00	-19.51

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 2

Test Date :2021-08-03

Test Frequency :5290 MHz

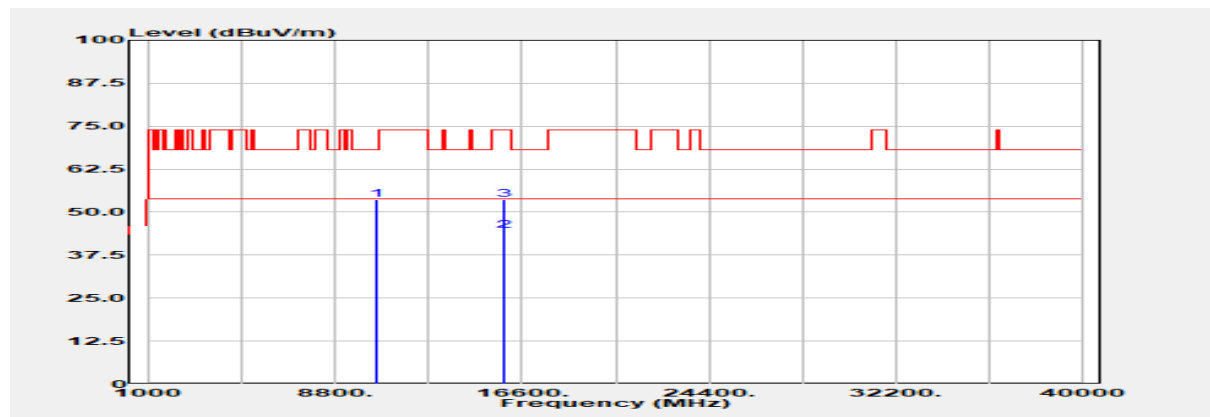
Temp./Humi. :23.7/59

Test Mode :TX CH HIGH

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
10580.000	Peak	30.55	23.17	53.72	68.20	-14.48
15870.000	Average	20.52	24.00	44.52	54.00	-9.48
15870.000	Peak	29.63	24.00	53.63	74.00	-20.37

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-03

Test Frequency :5530 MHz

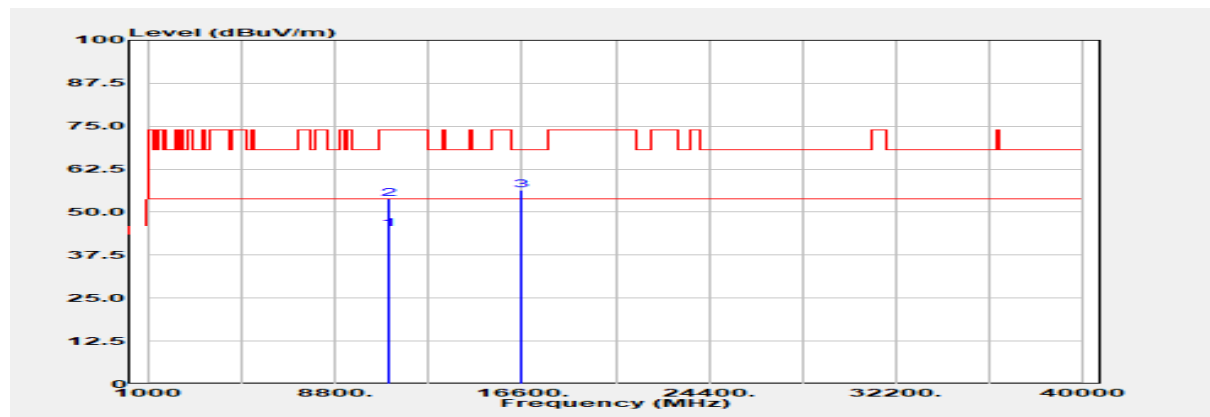
Temp./Humi. :23.7/59

Test Mode :TX CH LOW

Antenna Pol. :Vertical

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11060.000	Average	20.67	24.32	44.99	54.00	-9.01
11060.000	Peak	29.55	24.32	53.87	74.00	-20.13
16590.000	Peak	30.24	26.10	56.34	68.20	-11.86

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Report Number :E2/2021/70055

Test Site :SAC C

Operation Mode :802.11ac80 / Band 3

Test Date :2021-08-03

Test Frequency :5530 MHz

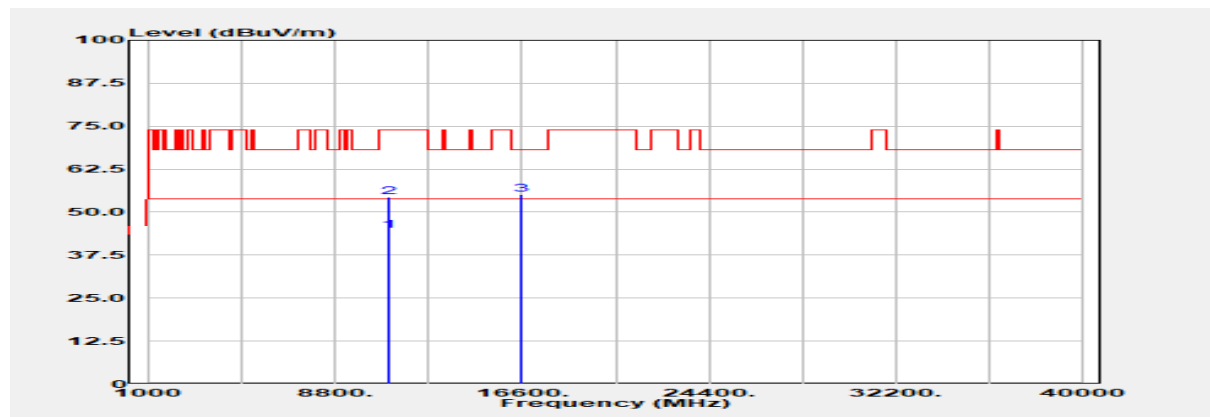
Temp./Humi. :23.7/59

Test Mode :TX CH LOW

Antenna Pol. :Horizontal

EUT Pol :E2 Plane

Engineer :Enzo Chang



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
11060.000	Average	20.38	24.32	44.70	54.00	-9.30
11060.000	Peak	30.14	24.32	54.46	74.00	-19.54
16590.000	Peak	29.12	26.10	55.22	68.20	-12.98

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

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