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ELECTROMAGNETIC EMISSIONS **COMPLIANCE REPORT**





Applicant: Axon Enterprise, Inc.

17800 N 85th St, Scottsdale, AZ 85255, United States

Manufacturer: Axon Enterprise, Inc.

17800 N 85th St, Scottsdale, AZ 85255, United States

Product Name: Fleet Hub

Brand Name: Axon

Model No.: AX1033 **HVIN:** S01405B

Model Difference: N/A

Report Number: ER/2022/30022

FCC ID X4GS01405B

IC: 8803A-S01405B

Date of EUT Received: March 7, 2022

Date of Test: March 17, 2022 ~ March 23, 2022

Issue Date: April 18, 2022

Approved By

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 §15.247, ISED RSS-247.

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

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Revision History							
Report Number	Revision	Description	Issue Date	Revised By	Remark		
ER/2022/30022	00	Original	April 18, 2022	Yuri Tsai			

Note:

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

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1 GENERAL INFORMATION

1.1 Product description

Product Name	Fleet Hub
Brand Name	Axon
Model No.	AX1033
HVIN:	S01405B
Model Difference	N/A
Hardware Version	X3
Firmware Version	IG2.DVT.1.2s
EUT Series No.	X70322224
Power Supply	12Vdc from Car battery

Wi-Fi	Frequency	Channels	Rated Power (dBm)	Modulation			
802.11	Range	Orianneis	rtated i ower (dbiii)	Technology			
b			29.30	DSSS			
g		11	29.21	OFDM			
n_HT20	2412-2462	1.1	29.46	OFDM			
ax_HE20			29.60	OFDMA			
n_HT40		7	26.61	OFDM			
ax_HE40	2422-2452	,	29.41	OFDMA			
		CCK, DQ	CCK, DQPSK, DBPSK for DSSS				
Modulo	tion type	64QAM, 16QAM, QPSK, BPSK for OFDM					
Iviodula	mon type	256QAM	256QAM for OFDM in 802.11ac only				
		1024QAN	1024QAM for OFDMA in 802.11ax only				
		802.11 b:	1/2/5.5/11 Mbps				
		802.11 g: 6/9/12/18/24/36/48/54 Mbps					
Transistion Rate		802.11 n 20MHz: 6.5 – 144.4Mbps					
Transist	ion Rate	802.11 n 40MHz: 13.5 – 300.0Mbps					
		802.11 a	 <_HE20MHz: 7.3 –286.8 Mbps				
		802.11 ax	802.11 ax HE40MHz: 14.6 -573.6 Mbps				

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1.2 Antenna Designation

Antenna Type	Supplier	Antenna Part No.		Freq. (MHz)	Peak Antenna Gain (dBi)	Directional Antenna Gain of Beamforming (dBi)
PIFA	Airgain	AP-AXONF3-MMF-Q-MS-BL-15	Main		2.3	5.30
Dipole	Airgain	gain AP-AXONF3-GL-WWG-BL-3M		2412-2462	N/A	N/A
Біроїо	7 til gall i	711 7000111 0 GE VVVO BE OW	Main		N/A	14// (

Note: The N/A represents that the Antenna does not available in the specified frequency.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 15.247 Meas Guidance v05r02 (Both FCC & ISED)

RSS-247 issue 2 Feb. 2017

RSS-Gen. issue 5, Amendment 1, March 2019

ANSI C63.10:2013

1.4 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designa- tion number	IC CAB identifier
		SAC 1		
		SAC 3		
		Conduction 1		
	No.134, Wu Kung Road, New Taipei	Conducted 1		
	Industrial Park, Wuku District, New	Conducted 2	TW0027	
	Taipei City, Taiwan.	Conducted 3		TW3702
		Conducted 4		
		Conducted 5		
SGS Taiwan Ltd.		Conducted 6		
Central RF Lab.		Conduction A		
(TAF code 3702)	No O Koii 4a4 Dd. Oviele en Dietrict	SAC C		
(1A1 Code 3702)		SAC D		
		SAC G		
		Conducted A		
	No.2, Keji 1st Rd., Guishan District,	Conducted B	TW0028	
	Taoyuan City, Taiwan 333	Conducted C		
		Conducted D		
		Conducted E	7	
		Conducted F		
		Conducted G		

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

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

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

2.2 EUT Exercise

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

2.3 Test Procedure

2.3.1 Conducted Emissions

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

2.3.2 Conducted Test (RF)

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

2.3.3 Radiated Emissions

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

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2.4 Measurement Results Explanation Example

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

Radiated emission below 30MHz is measured in a 9m*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 Configuration of Tested System

Fig. 2-1 Radiated Emission configuration



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

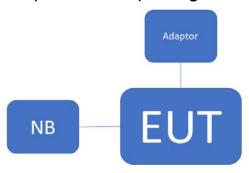


Table 2-1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Data Cable	Power Cord
1.	WLAN Test Software	N/A	N/A	N/A	N/A	N/A
2.	Notebook	Lenovo	L430	R9-XFG0X	N/A	N/A
3.	Adapter	N/A	N/A	N/A	N/A	N/A

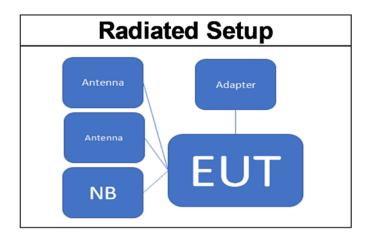
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SPOT CHECK



Radiated Emission Test Site: SAC 1						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.	
Test Software	Audix	e3	Ver. 9.210322	N.C.R	N.C.R	
Antenna	Airgain	AP-AXONF3- GL-WWG-BL- 3M	N/A	N/A	N/A	
Antenna	Airgain	AP-AXONF3- MMF-Q-MS- BL-15	N/A	N/A	N/A	
Adapter	FSP Technology Inc.	FSP120- AHAN3	H00000084	N/A	N/A	
Notebook	Lenovo	L430	R9-WGNK5	N/A	N/A	

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SUMMARY OF TEST RESULTS

FCC Rules	ISED Rules	Description Of Test	Result	Note
§15.207(a)	RSS-Gen §8.8	AC Power Line Conducted Emission	N/A	
§15.247(b)	RSS-247 §5.4 d	Peak Output Power	Compliant	
§15.247(a)(2)	RSS-247 §5.2 a RSS-Gen §6.7	Emission Bandwidth	Compliant	
§15.205 §15.209 §15.247(d)	RSS-247 §5.5 RSS-Gen §8.9 RSS-Gen §8.10 RSS-Gen §6.13	Radiated & Conducted Band Edge and Spurious Emission	Compliant	S
§15.247(e)	RSS-247 §5.2 b	Power Spectral Density	Compliant	
§15.203	N/A	Antenna Requirement	Compliant	

Note

- N/S Indicates whether item(s) being newly tested [N] or spot checked [S].
- Items other than spot checked [S] are leveraged from test report ER/2021/20091.
- 3. The test data under original FCC ID: X4GS01405 and test report number ER/2021/20091 is being referenced in this report.

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4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

11 channels are provided for 802.11b/g/n/ax 20M.

anneis are provide	ed for 802.1 fb/g/n/ax
CHANNEL	FREQUENCY
CHANNEL	(MHz)
1	2412
2	2417
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452
10	2457
11	2462

9 channels are provided for 802.11n/ax 40M

CHANNEL	FREQUENCY (MHz)
3	2422
4	2427
5	2432
6	2437
7	2442
8	2447
9	2452

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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 and receiving mode is programmed.
- 3. Investigation has been done on all the possible configurations for searching the worst case.

The gevin UE is pre-scanned among below modes.

Modulation	Transmission Chain			in	Single Transmission Spatial	Multiple Transmission Spatial
⊠ 802.11 b	⊠ Ch0	⊠ Ch1	□ Ch2	□ Ch3	□ 1TX	⊠ 2TX
⊠ 802.11 g	⊠ Ch0	⊠ Ch1	□ Ch2	□ Ch3	□ 1TX	⊠ 2TX
⊠ 802.11 n	⊠ 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.

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4.3 Radiated Emission Test:

MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION	DATA RATE (Mbps)	ANTENNA PORT		
RADIATED EMISSION TEST (BELOW 1 GHz)							
802.11g	6	6	OFDM	6	Ch0/2TX		
802.11ax40M	6	6	OFDMA	6	Ch0/2TX		
	RADIAT	ED EMISSIC	N TEST (ABOVE	1 GHz)			
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0/2TX		
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0/2TX		
802.11n20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO		
802.11n40M	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO		
802.11ax 20M	1 to 11	1, 6, 11	OFDMA	MCS 0	MIMO		
802.11ax 40M	3 to 9	3, 6, 9	OFDMA	MCS 0	MIMO		

Note: The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for channel Low, Mid and High, the worst case position was reported.

4.4 Antenna Port Conducted Mesurement:

CONDUCTED TEST							
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	ANTENNA PORT				
802.11b	1 to 11	1, 6, 11	DSSS	1	Ch0/2TX		
802.11g	1 to 11	1, 6, 11	OFDM	6	Ch0/2TX		
802.11n 20M	1 to 11	1, 6, 11	OFDM	MCS 8	MIMO		
802.11n 40M	3 to 9	3, 6, 9	OFDM	MCS 8	MIMO		

CONDUCTED TEST								
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODU- LATION	RU CONFIGURATION	DATA RATE (Mbps)	ANTENNA PORT		
802.11ax 20M	1 to 11	1, 6, 11	OFDMA	full 26/8 52/40 106/54	MCS 0	MIMO		
802.11ax 40M	3 to 9	3, 6, 9	>	full 242/61	MCS 0	MIMO		

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SPOT CHECK

Transmitter unwanted emissions in the spurious domain						
MODE	AVAILABLE		MODULATION	DATA RATE		
	CHANNEL	CHANNEL		(Mbps)		
802.11b	1 to 13	1	DSSS	1		

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MEASUREMENT UNCERTAINTY

Test Items	Un	certain	ty
AC Power Line Conducted Emission	+/-	2.34	dB
Output Power measurement	+/-	1	dB
Emission Bandwidth	+/-	1.53	Hz
Undesignable radiated emission measurement	+/-	1.68	dB
Peak Power Density	+/-	1.62	dB
Temperature	+/-	0.4	Ĉ
Humidity	+/-	3.5	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty					
	+/-	2.57	dB	9kHz~30MHz	
Dalani-atian Mantical	+/-	4.85	dB	30MHz - 1000MHz	
Polarization: Vertical	+/-	4.45	dB	1GHz - 18GHz	
	+/-	4.24	dB	18GHz - 40GHz	
	+/-	2.57	dB	9kHz~30MHz	
[+/-	4.37	dB	30MHz - 1000MHz	
Polarization: Horizontal	+/-	4.45	dB	1GHz - 18GHz	
	+/-	4.24	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 150kHz to 30MHz shall not exceed the Limit table as below.

Frequency range	Limits dB(uV)				
MHz	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

Conducted Emission Test Site: Conducted 2							
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.		
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022		
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022		
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022		
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021		
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021		
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021		

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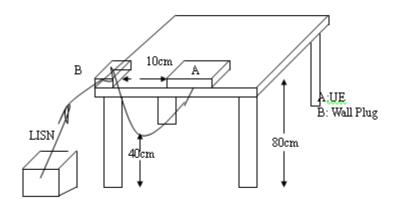


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6.3 EUT Setup

- 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 EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

6.4 Test SET-UP (Block Diagram of Configuration)



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

N/A; Powered from AA battery.

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DUTY CYCLE OF 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



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7.2 Duty Cycle:

CDD

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11b	75.00	1.25	1.54	2.00
802.11g	92.86	0.32	0.65	1.00
802.11n_20	95.79	0.19	0.19	1.00
802.11n_40	93.32	0.30	0.19	1.00
802.11ax_20	95.94	0.18	0.19	1.00
802.11ax_40	94.10	0.26	0.19	1.00

b = 75%, g = 92.86%, $n_ht_20 = 95.79\%$ $n_ht_40 = 93.32\%$

Duty Cycle Factor: $10 * \log(1/0.75) = 1.25$ Duty Cycle Factor: $10 * \log(1/0.9286) = 0.32$ Duty Cycle Factor: $10 * \log(1/0.9579) = 0.19$ Duty Cycle Factor: $10 * \log(1/0.9332) = 0.3$

Beamforming

	Duty Cycle (%) = Ton / (Ton+Toff)	Duty Factor (dB) =10*log (1/Duty Cycle)	1/T (kHz)	VBW setting (kHz)
802.11n_20	96.11	0.17	0.19	1.00
802.11n_40	95.47	0.20	0.19	1.00
802.11ax_20	93.02	0.31	0.19	1.00
802.11ax_40	95.82	0.19	0.19	1.00

b = %, g = %, $n_ht_20 = 96.11\%n_ht_40 = 95.47\%$

Duty Cycle Factor: $10 * \log(1/0.9611) = 0.17$ Duty Cycle Factor: $10 * \log(1/0.9547) = 0.2$

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7.3 Duty Cycle test plots

CDD

Duty Cycle 802.11b 20MHz Chain0 2412MHz



Duty Cycle_802.11g_20MHz_Chain0_2412MHz



Duty Cycle 802.11n 20MHz Chain0 2412MHz



Duty Cycle 802.11ax 20MHz Chain0 2412MHz



Duty Cycle 802.11n 40MHz Chain0 2422MHz



Duty Cycle 802.11ax 40MHz Chain0 2422MHz



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Beamforming

Duty Cycle 802.11n 20MHz Chain0 2412MHz







Duty Cycle 802.11n 40MHz Chain0 2422MHz



Duty Cycle_802.11ax_40MHz_Chain0_2422MHz



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PEAK OUTPUT POWER MEASUREMENT

8.1 Standard Applicable

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

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.

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

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

 $g_{i,k} = /20$ 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 grater than 6 dBi. Therefore, reduction of power is not required.

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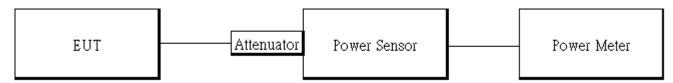
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8.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2								
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUM- BER	LAST CAL.	CAL DUE.			
Power Meter	Anritsu	ML2496A	1804001	03/02/2021	03/01/2022			
Power Sensor	Anritsu	MA2411B	1726104	03/02/2021	03/01/2022			
Power Sensor	Anritsu	MA2411B	1726107	03/02/2021	03/01/2022			
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021			

8.3 Test Set-up

Power Meter:



8.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guid-
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Spectrum or Power Meter.

* Note: The duty cycle factor is compensated to obtain the maximum value of measurement in average.

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8.5 Measurement Result

2462

CDD

802.1	1b Ch0					
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	26.67	30.00	PASS
6	2437	1	24	26.61	30.00	PASS
11	2462	1	24	26.77	30.00	PASS
802.1	1b Ch0		-			
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	23.27	30.00	PASS
6	2437	1	24	23.11	30.00	PASS
11	2462	1	24	23.40	30.00	PASS
802.1	1b Ch1			<u> </u>		
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	25.88	30.00	PASS
6	2437	1	24	26.14	30.00	PASS
11	2462	1	24	26.07	30.00	PASS
802.1	1b Ch1	!		•	-1	!
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	1	24	23.27	30.00	PASS
6	2437	1	24	23.11	30.00	PASS
	_	1	1	1	1	1

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23.40

PASS

30.00



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802.1	1b_2TX							
СН	Freq. (MHz)	Data Rate	Power set		Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(101112)	Rate	301	CH 0	CH1	(dBm)	(dDIII)	
1	2412	1	24	26.60	25.85	29.25	30.00	PASS
6	2437	1	24	26.60	25.85	29.25	30.00	PASS
11	2462	1	24	26.52	26.05	29.30	30.00	PASS
802.1	1b_2TX							
				Avg. 0	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
CII	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	KLSOLI
				CH 0	CH1	(dBm)		
1	2412	1	24	22.02	21.30	25.93	30.00	PASS
6	2437	1	24	22.04	21.45	26.01	30.00	PASS
11	2462	1	24	22.05	21.58	26.08	30.00	PASS

802.1	1g Ch0					
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	19	26.22	30.00	PASS
6	2437	6	19	26.19	30.00	PASS
11	2462	6	19	26.68	30.00	PASS
802.1	1g Ch0					
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	6	19	19.01	30.00	PASS
6	2437	6	19	18.96	30.00	PASS
11	2462	6	19	19.22	30.00	PASS

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802.1	1g Ch1							
СН	Freq. (MHz)	Data Rate	Р	ower set		k Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6		19		25.65	30.00	PASS
6	2437	6		19		25.56	30.00	PASS
11	2462	6		19		25.85	30.00	PASS
802.1	1g Ch1							
СН	Freq. (MHz)	Data Rate		ower set	inclu tolera	Avg. Output de tune up ance Power (dBm)	Limit (dBm)	RESULT
1	2412	6		19	19.01		30.00	PASS
6	2437	6		19	18.96		30.00	PASS
11	2462	6		19		19.22	30.00	PASS
802.11	lg_2TX							
СН	Freq. (MHz)	Data Rate	Power set		Output wer CH 1	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	6	19	26.34	25.33	28.87	30.00	PASS
6	2437	6	19	26.48	25.66	29.10	30.00	PASS
11	2462	6	19	26.53	25.84	29.21	30.00	PASS
802.11	lg_2TX			A. ra	Outnut	May Ava Outo	. 1	
СН	Freq. (MHz)	Data Rate	Power set	Po	Output wer Bm) CH 1	Max. Avg. Outpoinclude tune u tolerance Powe (dBm)	p Limit	RESULT
1	2412	6	19	18.58	17.79	21.53	30.00	PASS
6	2437	6	19	18.76	17.96	21.71	30.00	PASS
11	2462	6	19	18.86	18.34	21.94	30.00	PASS

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СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	27.15	30.00	PASS
6	2437	MCS0	19	26.37	30.00	PASS
11	2462	MCS0	19	26.67	30.00	PASS
302. 1	11n_HT2	0M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	19.26	30.00	PASS
6	2437	MCS0	19	18.79	30.00	PASS
11	2462	MCS0	19	19.04	30.00	PASS

802.1	1n_HT20l	M Ch1				
СН	(MHz) Rate		Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	25.95	30.00	PASS
6	2437	MCS0	19	25.71	30.00	PASS
11	2462	MCS0	19	26.01	30.00	PASS
802.1	1n_HT20l	VI Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	19.5	19.26	30.00	PASS
6	2437	MCS0	19	18.79	30.00	PASS
11	2462	MCS0	19	19.04	30.00	PASS

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	_	D :		Pea	ak C	Output	Total Peal	k	,	
СН	Freq.	Data	Power		Pov	•	Output Pow	<i>i</i> er	Limit	RESULT
	(MHz)	Rate	set	СН	0	CH1	(dBm)		(dBm)	
1	2412	MCS8	19.5	26.8	7	25.98	29.46		30.00	PASS
6	2437	MCS8	19	26.1	1	25.78	28.96		30.00	PASS
11	2462	MCS8	19	26.6	2	25.98	29.32		30.00	PASS
302.1	1n_HT20M	I MIMO							_	
			_	1	_	utput	Max. Avg. Ou	•		
СН	Freq.	Data	Power		Pov		include tune	•	Limit	RESUL
	(MHz) Rate		set		(dB	-	tolerance Po	wer	(dBm)	
	0.440	MOCO	10.5	CH		CH1	(dBm)		00.00	DACC
1	2412	MCS8	19.5	19.0		18.30	21.89		30.00	PASS
6	2437	MCS8	19	18.5		18.02	21.49		30.00	PASS PASS
11	2462	IVICS8	19	19.0	/	18.39	21.94		30.00	PASS
802.1	1n_HT40	M Ch0								
		Doto	D			Peak	Output		Limit	
СН	Freq.	Data		wer		Po	ower		Limit	RESULT
	(MHz)	Rate		set		(d	Bm)		(dBm)	
3	2422	MCS0		19		2	6.43		30.00	PASS
4	2427	MCS0	1	9.5		2	6.92		30.00	PASS
5	2432	MCS0	1	9.5		2	7.06		30.00	PASS
6	2437	MCS0	1	9.5		2	6.93		30.00	PASS
7	2442	MCS0	1	9.5		2	7.05		30.00	PASS
8	2447	MCS0	1	6.5		2	3.94		30.00	PASS
9	2452	MCS0		16		2:	2.97		30.00	PASS
802.1	1n_HT40	M Ch0	•							
						Max. Av	g. Output			
CII	Freq.	Data	Po	wer		includ	e tune up		Limit	DECLILE
СН	(MHz)	Rate		set		tolerar	ice Power		(dBm)	RESULT
						(d	Bm)			
3	2422	MCS0		19			9.05		30.00	PASS
4	2427	MCS0	1	9.5		1	9.49		30.00	PASS
5	2432	MCS0	1	9.5		1'	9.65		30.00	PASS
6	2437	MCS0	1	9.5		1'	9.39		30.00	PASS
7	2442	MCS0	1	9.5		1'	9.66		30.00	PASS
8	2447	MCS0	1	6.5		1	6.44		30.00	PASS
	<u> </u>	1								

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MCS0

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2452

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15.71

PASS

30.00

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802.1	1n_HT40N	M Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	19	25.71	30.00	PASS
4	2427	MCS0	19.5	26.49	30.00	PASS
5	2432	MCS0	19.5	26.14	30.00	PASS
6	2437	MCS0	19.5	26.20	30.00	PASS
7	2442	MCS0	19.5	26.39	30.00	PASS
8	2447	MCS0	16.5	23.08	30.00	PASS
9	2452	MCS0	16	22.65	30.00	PASS
802.1°	1n_HT40N	M Ch1				
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
	(MHz)	Rate	set	tolerance Power	(dBm)	KLSOLI
				(dBm)		
3	2422	MCS0	19	19.05	30.00	PASS
4	2427	MCS0	19.5	19.49	30.00	PASS
5	2432	MCS0	19.5	19.65	30.00	PASS
6	2437	MCS0	19.5	19.39	30.00	PASS
7	2442	MCS0	19.5	19.66	30.00	PASS
8	2447	MCS0	16.5	16.44	30.00	PASS
9	2452	MCS0	16	15.71	30.00	PASS

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802.1	1n_HT40N	M MIMO						
СН	Freq. (MHz)	Data Rate	Power set		Output wer CH 1	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS8	19	26.22	25.72	28.99	30.00	PASS
4	2427	MCS8	19.5	26.46	26.43	29.46	30.00	PASS
5	2432	MCS8	19.5	26.73	26.47	29.61	30.00	PASS
6	2437	MCS8	19.5	26.62	26.01	29.34	30.00	PASS
7	2442	MCS8	18.5	25.65	25.23	28.46	30.00	PASS
8	2447	MCS8	15.5	22.60	22.21	25.42	30.00	PASS
9	2452	MCS8	15.5	22.39	22.22	25.32	30.00	PASS
802.1	1n_HT40I	M MIMO						
				Avg. 0	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
CII	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	KLJULI
				CH 0	CH 1	(dBm)		
3	2422	MCS8	19	18.76	18.05	21.73	30.00	PASS
4	2427	MCS8	19.5	19.04	18.86	22.26	30.00	PASS
5	2432	MCS8	19.5	19.09	18.78	22.25	30.00	PASS
6	2437	MCS8	19.5	19.49	18.65	22.40	30.00	PASS
7	2442	MCS8	18.5	18.08	17.79	21.25	30.00	PASS
	2447	MCS8	15.5	15.11	14.97	18.35	30.00	PASS
8	2117	WOOO	10.0	10.11	1,	10.00	00.00	

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802.1	1ax_HE20	JIVI CNU					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	18.5	26.47	30.00	PASS
1	2412	MCS0	26/0	15	26.03	30.00	PASS
ı	2412	IVICSO	52/37	15	26.39	30.00	PASS
			106/53	14.5	26.26	30.00	PASS
6	2437	MCS0	full	18.5	26.45	30.00	PASS
			full	18.5	26.81	30.00	PASS
11	2462	MCS0	26/8	15	26.20	30.00	PASS
11	2402	IVICSO	52/40	14.5	26.26	30.00	PASS
			106/54	14	25.64	30.00	PASS
802.1	1ax_HE20	M Ch0					
СН	Freq.	Data	RU	Power	Max. Avg. Output include tune up		
	(MHz)	Rate	Config	set	tolerance Power	Limit (dBm)	RESULT
	(MHz)	Rate	_		•		RESULT PASS
1	, , ,		Config	set	tolerance Power (dBm)	(dBm)	
1	(MHz) 2412	Rate MCS0	Config full	set 18.5	tolerance Power (dBm) 18.53	(dBm) 30.00	PASS
1	, , ,		full 26/0	set 18.5 15	tolerance Power (dBm) 18.53 14.73	(dBm) 30.00 30.00	PASS PASS
1	, , ,		full 26/0 52/37	set 18.5 15 15	tolerance Power (dBm) 18.53 14.73	(dBm) 30.00 30.00 30.00	PASS PASS PASS
	2412	MCS0	full 26/0 52/37 106/53	set 18.5 15 15 14.5	tolerance Power (dBm) 18.53 14.73 14.98 14.09	(dBm) 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
6	2412	MCS0	full 26/0 52/37 106/53 full	set 18.5 15 15 14.5 18.5	tolerance Power (dBm) 18.53 14.73 14.98 14.09 18.44	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
	2412	MCS0	full 26/0 52/37 106/53 full full	set 18.5 15 15 14.5 18.5 18.5	tolerance Power (dBm) 18.53 14.73 14.98 14.09 18.44 18.81	(dBm) 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS

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802.1°	1ax_HE20	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	18.5	25.85	30.00	PASS
1	2412	MCS0	26/0	15	25.75	30.00	PASS
'	2412	IVICOU	52/37	15	25.77	30.00	PASS
			106/53	14.5	24.99	30.00	PASS
6	2437	MCS0	full	18.5	25.63	30.00	PASS
			full	18.5	26.04	30.00	PASS
11	2462	MCS0	26/8	15	25.31	30.00	PASS
11	2402	IVICSO	52/40	14.5	25.46	30.00	PASS
			106/54	14	25.32	30.00	PASS
802.1	1ax_HE20	M Ch1					
					Max. Avg. Output		
СН	Freq.	Data	RU	Power	include tune up	Limit	RESULT
	(MHz)	Rate	Config	set	tolerance Power	(dBm)	KLSOLI
					(dBm)		
			full	18.5	18.53	30.00	PASS
1	2412	MCS0	26/0	15	14.73	30.00	PASS
'	2712	WOO	52/37	15	14.98	30.00	PASS
			106/53	14.5	14.09	30.00	PASS
6	2437	MCS0	full	18.5	18.44	30.00	PASS
			full	18.5	18.81	30.00	PASS
11	2462	MCS0	26/8	15	15.13	30.00	PASS
''	2702	101000	52/40	14.5	15.05	30.00	PASS
			106/54	14	14.24	30.00	PASS

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802.1	1ax_HE20	M MIMC)						
СН	Freq. (MHz)	Data Rate	RU Config	Power set		Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(111112)	Rate	Coming	301	CH 0	CH 1	(dBm)	(dDill)	
			full	18.5	26.36	25.67	29.04	30.00	PASS
1	2412	MCS0	26/0	15	26.23	25.72	28.99	30.00	PASS
'	2712	WCSO	52/37	15	26.25	25.74	29.01	30.00	PASS
			106/53	14.5	26.61	25.44	29.07	30.00	PASS
6	2437	MCS0	full	18.5	26.84	26.32	29.60	30.00	PASS
			full	18.5	26.98	26.01	29.53	30.00	PASS
11	2462	MCS0	26/8	15	26.15	25.38	28.79	30.00	PASS
11	2402	IVICOU	52/40	14.5	26.20	25.32	28.79	30.00	PASS
			106/54	14	26.46	25.02	28.81	30.00	PASS
802.1	1ax_HE20	M MIMC)						
					Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
CII	(MHz)	Rate	Config	set	(dE	3m)	tolerance Power	(dBm)	KLJOLI
					CH 0	CH 1	(dBm)		
			full	18.5	18.24	17.85	21.24	30.00	PASS
1	2412	MCS0	26/0	15	14.52	13.69	17.32	30.00	PASS
'	2712	IVICOU	52/37	15	14.83	13.93	17.59	30.00	PASS
			106/53	14.5	13.92	13.07	16.71	30.00	PASS
6	2437	MCS0	full	18.5	18.42	17.68	21.26	30.00	PASS
			full	18.5	18.73	18.18	21.65	30.00	PASS
11	2462	MCS0	26/8	15	14.96	14.13	17.76	30.00	PASS
' '	2702	IVICOU	52/40	14.5	14.82	13.98	17.61	30.00	PASS
			106/54	14	13.97	13.26	16.82	30.00	PASS

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802.1	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	18.5	26.45	30.00	PASS
J	2422	IVICOU	242/61	15.5	26.26	30.00	PASS
6	2437	MCS0	full	18.5	26.62	30.00	PASS
7	2442	MCS0	full	18.5	26.64	30.00	PASS
8	2447	MCS0	full	16	24.98	30.00	PASS
9	2452	MCS0	full	16	23.84	30.00	PASS
7	2432	IVICOU	242/62	16	26.64	30.00	PASS
802.1	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	18.5	18.55	30.00	PASS
	2122	WOOO	242/61	15.5	15.06	30.00	PASS
6	2437	MCS0	full	18.5	18.75	30.00	PASS
7	2442	MCS0	full	18.5	18.78	30.00	PASS
8	2447	MCS0	full	16	16.19	30.00	PASS
9	2452	MCS0	full	16	15.75	30.00	PASS
,	2732	141030	242/62	16	15.51	30.00	PASS

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802.11ax_HE40M Ch1							
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	18.5	26.18	30.00	PASS
			242/61	15.5	25.79	30.00	PASS
6	2437	MCS0	full	18.5	25.96	30.00	PASS
7	2442	MCS0	full	18.5	25.76	30.00	PASS
8	2447	MCS0	full	16	23.22	30.00	PASS
9	2452	MCS0	full	16	23.42	30.00	PASS
			242/62	16	26.12	30.00	PASS
802.11ax_HE40M Ch1							
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	18.5	18.55	30.00	PASS
			242/61	15.5	15.06	30.00	PASS
6	2437	MCS0	full	18.5	18.75	30.00	PASS
7	2442	MCS0	full	18.5	18.78	30.00	PASS
8	2447	MCS0	full	16	16.19	30.00	PASS
9	2452	MCS0	full	16	15.75	30.00	PASS
			242/62	16	15.51	30.00	PASS

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802.1	1ax_HE40	M MIMO)						
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Pov	Output wer	Total Peak Output Power	Limit (dBm)	RESULT
			Ů		CH 0	CH1	(dBm)		2100
3	2422	MCS0	full	18.5	26.11	25.95	29.04	30.00	PASS
			242/6	15.5	26.15	25.79	28.98	30.00	PASS
6	2437	MCS0	full	18.5	26.89	25.84	29.41	30.00	PASS
7	2442	MCS0	full	17	25.27	24.32	27.83	30.00	PASS
8	2447	MCS0	full	14.5	22.61	21.50	25.10	30.00	PASS
9	2452	MCS0	full	15	22.75	22.53	25.65	30.00	PASS
9	2432	IVICSU	242/6	16	26.33	26.25	29.30	30.00	PASS
802.1	1ax_HE40	M MIMO							
					Avg. C	Output	Max. Avg. Output		
C11	Freq.	Data	RU	Power	Pov	wer	include tune up	Limit	DECLUT
СН	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	RESULT
					CH 0	CH1	(dBm)		
3	2422	MCS0	full	18.5	18.23	18.17	21.47	30.00	PASS
3	2422	IVICSU	242/6	15.5	14.57	13.94	17.54	30.00	PASS
6	2437	MCS0	full	18.5	18.52	17.79	21.44	30.00	PASS
7	2442	MCS0	full	17	17.08	16.44	20.05	30.00	PASS
8	2447	MCS0	full	14.5	14.53	13.86	17.48	30.00	PASS
9	2452	MCCO	full	15	14.72	14.29	17.78	30.00	PASS
9	2452	MCS0	242/6	16	15.24	15.13	18.46	30.00	PASS

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Beamforming

802.1	1n_HT20N	M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	24.14	30.00	PASS
6	2437	MCS0	16	24.63	30.00	PASS
11	2462	MCS0	16	23.98	30.00	PASS
802.1	1n_HT20 l	VI Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
1	2412	MCS0	16.5	16.23	30.00	PASS
6	2437	MCS0	16	15.95	30.00	PASS
11	2462	MCS0	16	16.09	30.00	PASS

802.1	1n_HT20N	M Ch1									
СН	Freq. Data (MHz) Rate		Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT					
1	2412	MCS0	16.5	23.56	30.00	PASS					
6	2437	MCS0	16	23.06	30.00	PASS					
11	2462	MCS0	16	23.36	30.00	PASS					
802.1	802.11n_HT20M Ch1										
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT					
1	2412	MCS0	16.5	15.78	30.00	PASS					
6	2437	MCS0	16	15.28	30.00	PASS					
11	2462	MCS0	16	15.62	30.00	PASS					

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011	Freq.	Data	Power			Total Peak	Limit	DECLUT
СН	(MHz)	Rate	set	CH 0	wer CH 1	Output Power (dBm)	(dBm)	RESULT
1	2412	MCS8	16.5	24.23	23.21	26.76	30.00	PASS
6	2437	MCS8	16	24.34	23.27	26.85	30.00	PASS
11	2462	MCS8	16	23.69	23.53	26.62	30.00	PASS
802.1	1n_HT20	M MIMO	•					-
				Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	RESULT
				CH 0	CH 1	(dBm)		
1	2412	MCS8	16.5	15.96	15.55	18.94	30.00	PASS
6	2437	MCS8	16	15.98	15.01	18.70	30.00	PASS
11	2462	MCS8	16	15.84	15.35	18.78	30.00	PASS

802.1	1n_HT40N	/I Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	23.69	30.00	PASS
4	2427	MCS0	16.5	24.01	30.00	PASS
5	2432	MCS0	16.5	24.29	30.00	PASS
6	2437	MCS0	16.5	24.36	30.00	PASS
7	2442	MCS0	16.5	23.94	30.00	PASS
8	2447	MCS0	13.5	21.06	30.00	PASS
9	2452	MCS0	13	20.12	30.00	PASS
802.1	1n_HT40N	M Ch0				
СН	Freq. (MHz)	Data Rate	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	15.94	30.00	PASS
4	2427	MCS0	16.5	16.39	30.00	PASS
5	2432	MCS0	16.5	16.52	30.00	PASS
6	2437	MCS0	16.5	16.56	30.00	PASS
7	2442	MCS0	16.5	16.47	30.00	PASS
8	2447	MCS0	13.5	13.39	30.00	PASS
9	2452	MCS0	13	12.72	30.00	PASS

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802.1	1n_HT40N	1 Ch1				
СН	Freq. (MHz)	Data Rate	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	16	22.75	30.00	PASS
4	2427	MCS0	16.5	23.49	30.00	PASS
5	2432	MCS0	16.5	23.48	30.00	PASS
6	2437	MCS0	16.5	23.46	30.00	PASS
7	2442	MCS0	16.5	23.22	30.00	PASS
8	2447	MCS0	13.5	20.15	30.00	PASS
9	2452	MCS0	13	19.66	30.00	PASS
802.1	1n_HT40N	1 Ch1				
				Max. Avg. Output		
СН	Freq.	Data	Power	include tune up	Limit	RESULT
СП	(MHz)	Rate	set	tolerance Power	(dBm)	KESULI
				(dBm)		
3	2422	MCS0	16	15.43	30.00	PASS
4	2427	MCS0	16.5	15.88	30.00	PASS
5	2432	MCS0	16.5	15.97	30.00	PASS
6	2437	MCS0	16.5	15.98	30.00	PASS
7	2442	MCS0	16.5	15.83	30.00	PASS
8	2447	MCS0	13.5	12.98	30.00	PASS
9	2452	MCS0	13	12.40	30.00	PASS

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802.1	1n_HT40l	M MIMO						
СН	Freq. (MHz)	Data Rate	Power set	Po	Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(2)	riato		CH 0	CH 1	(dBm)	(42)	
3	2422	MCS8	16	23.81	23.12	26.49	30.00	PASS
4	2427	MCS8	16.5	23.94	23.34	26.66	30.00	PASS
5	2432	MCS8	16.5	24.22	23.36	26.82	30.00	PASS
6	2437	MCS8	16.5	24.26	23.44	26.88	30.00	PASS
7	2442	MCS8	15.5	22.81	22.21	25.53	30.00	PASS
8	2447	MCS8	12.5	19.82	19.11	22.49	30.00	PASS
9	2452	MCS8	12.5	19.64	19.18	22.43	30.00	PASS
802.1	1n_HT40I	M MIMO	•		•			•
				Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	Power	Po	wer	include tune up	Limit	RESULT
СП	(MHz)	Rate	set	(dE	3m)	tolerance Power	(dBm)	RESULT
				CH 0	CH 1	(dBm)		
3	2422	MCS8	16	15.69	15.44	18.78	30.00	PASS
4	2427	MCS8	16.5	16.08	15.58	19.05	30.00	PASS
			-	4/07	15.96	19.38	30.00	PASS
5	2432	MCS8	16.5	16.37	13.90	17.30	30.00	17.00
5 6	2432 2437	MCS8 MCS8	16.5 16.5	16.37	15.88	19.37	30.00	PASS
6	2437	MCS8	16.5	16.42	15.88	19.37	30.00	PASS

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802.1	1ax_HE20	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	15.5	24.14	30.00	PASS
1	2412	MCS0	26/0	12	23.73	30.00	PASS
'	2412	IVICOU	52/37	12	23.96	30.00	PASS
			106/53	11.5	23.95	30.00	PASS
6	2437	MCS0	full	15.5	23.73	30.00	PASS
			full	15.5	24.28	30.00	PASS
11	2462	MCS0	26/8	12	23.61	30.00	PASS
''	2462	IVICOU	52/40	11.5	23.54	30.00	PASS
			106/54	11	23.33	30.00	PASS
802.1	1ax_HE20	M Ch0					•
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
СН	Freq.	Data			include tune up tolerance Power		RESULT PASS
	Freq. (MHz)	Data Rate	Config	set	include tune up tolerance Power (dBm)	(dBm)	
CH	Freq.	Data	Config full	set 15.5	include tune up tolerance Power (dBm) 15.60	(dBm) 30.00	PASS
	Freq. (MHz)	Data Rate	full 26/0	set 15.5 12	include tune up tolerance Power (dBm) 15.60	(dBm) 30.00 30.00	PASS PASS
	Freq. (MHz)	Data Rate	full 26/0 52/37	set 15.5 12 12	include tune up tolerance Power (dBm) 15.60 12.17	(dBm) 30.00 30.00 30.00	PASS PASS PASS
1	Freq. (MHz)	Data Rate MCS0	full 26/0 52/37 106/53	set 15.5 12 12 11.5	include tune up tolerance Power (dBm) 15.60 12.17 12.41 11.57	(dBm) 30.00 30.00 30.00 30.00	PASS PASS PASS PASS
1 6	Freq. (MHz) 2412	Data Rate MCS0	full 26/0 52/37 106/53 full	set 15.5 12 12 11.5 15.5	include tune up tolerance Power (dBm) 15.60 12.17 12.41 11.57	30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS
1	Freq. (MHz)	Data Rate MCS0	full 26/0 52/37 106/53 full full	set 15.5 12 12 11.5 15.5 15.5	include tune up tolerance Power (dBm) 15.60 12.17 12.41 11.57 15.98 16.19	(dBm) 30.00 30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS PASS PASS PASS

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802.1	1ax_HE20	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
			full	15.5	22.87	30.00	PASS
1	2412	MCS0	26/0	12	23.14	30.00	PASS
'	2412	IVICOU	52/37	12	23.15	30.00	PASS
			106/53	11.5	22.75	30.00	PASS
6	2437	MCS0	full	15.5	23.28	30.00	PASS
			full	15.5	23.26	30.00	PASS
11	2462	MCS0	26/8	12	23.29	30.00	PASS
''	2402	IVICOU	52/40	11.5	22.75	30.00	PASS
			106/54	11	22.61	30.00	PASS
802.1	1ax_HE20	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power	Limit (dBm)	RESULT
					(dBm)		
			full	15.5	15.07	30.00	PASS
1	2412	MCS0	26/0	12	11.17	30.00	PASS
'	2412	IVICSO	52/37	12	11.26	30.00	PASS
			106/53	11.5	10.43	30.00	PASS
6	2437	MCS0	full	15.5	15.14	30.00	PASS
			full	15.5	15.37	30.00	PASS
11	2462	MCS0	26/8	12	11.87	30.00	PASS
''	2402	IVICOU	52/40	11.5	11.67	30.00	PASS
			106/54	11	11.04	30.00	PASS

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802.1	1ax_HE20	JIVI IVI IVIC)						
СН	Freq.	Data Rate	RU Config	Power set	Pov	Output wer	Total Peak Output Power	Limit (dBm)	RESULT
	(2)	rtuto	Joining		CH 0	CH 1	(dBm)		
			full	15.5	23.58	22.92	26.27	30.00	PASS
1	2412	MCS0	26/0	12	23.96	22.55	26.32	30.00	PASS
	2112	WOOO	52/37	12	24.05	22.97	26.55	30.00	PASS
			106/53	11.5	24.23	22.76	26.57	30.00	PASS
6	2437	MCS0	full	15.5	23.81	23.19	26.52	30.00	PASS
			full	15.5	24.20	23.70	26.97	30.00	PASS
11	2462	MCS0	26/8	12	23.78	23.15	26.49	30.00	PASS
''	2402	IVICSO	52/40	11.5	23.81	22.77	26.33	30.00	PASS
			106/54	11	24.15	22.52	26.42	30.00	PASS
802.1	1ax_HE20	M MIMO)						
					Avg. C	Output	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Pov	wer	include tune up	Limit	RESULT
CII	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	KLJULI
					CH 0	CH 1	(dBm)		
			full	15.5	15.36	14.78	18.40	30.00	PASS
							10.40	30.00	
1 1	2/12	MCSO	26/0	12	11.83	10.95	14.74	30.00	PASS
1	2412	MCS0	26/0 52/37	12 12	11.83 12.08				PASS PASS
1	2412	MCS0				10.95	14.74	30.00	
6	2412	MCS0	52/37	12	12.08	10.95 11.06	14.74 14.92	30.00 30.00	PASS
·			52/37 106/53	12 11.5	12.08 11.18	10.95 11.06 10.08	14.74 14.92 13.99	30.00 30.00 30.00	PASS PASS
6	2437	MCS0	52/37 106/53 full	12 11.5 15.5	12.08 11.18 15.45	10.95 11.06 10.08 14.87	14.74 14.92 13.99 18.49	30.00 30.00 30.00 30.00	PASS PASS PASS
·			52/37 106/53 full full	12 11.5 15.5 15.5	12.08 11.18 15.45 15.82	10.95 11.06 10.08 14.87 15.03	14.74 14.92 13.99 18.49 18.77	30.00 30.00 30.00 30.00 30.00	PASS PASS PASS PASS

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802.1	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	23.78	30.00	PASS
	2722	IVICOU	242/61	12.5	23.55	30.00	PASS
6	2437	MCS0	full	15.5	23.84	30.00	PASS
7	2442	MCS0	full	15.5	23.75	30.00	PASS
8	2447	MCS0	full	13	21.19	30.00	PASS
9	2452	MCS0	full	13	20.82	30.00	PASS
,	2432	IVICOU	242/62	13	23.77	30.00	PASS
802.1	1ax_HE40	M Ch0					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	15.64	30.00	PASS
) 	2422	IVICSU	242/61	12.5	11.96	30.00	PASS
6	2437	MCS0	full	15.5	15.77	30.00	PASS
7	2442	MCS0	full	15.5	15.65	30.00	PASS
8	2447	MCS0	full	13	13.14	30.00	PASS
9	2452	MCS0	full	13	12.94	30.00	PASS
	2702	101000	242/62	13	12.09	30.00	PASS

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802.1	1ax_HE40	M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	22.93	30.00	PASS
3	2422	IVICOU	242/61	12.5	23.37	30.00	PASS
6	2437	MCS0	full	15.5	23.27	30.00	PASS
7	2442	MCS0	full	15.5	23.13	30.00	PASS
8	2447	MCS0	full	13	20.23	30.00	PASS
9	2452	MCS0	full	13	20.67	30.00	PASS
			242/62	13	23.23	30.00	PASS
802.1	1ax_HE40)M Ch1					
СН	Freq. (MHz)	Data Rate	RU Config	Power set	Max. Avg. Output include tune up tolerance Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	15.02	30.00	PASS
	2122	WOOO	242/61	12.5	11.45	30.00	PASS
6	2437	MCS0	full	15.5	15.15	30.00	PASS
7	2442	MCS0	full	15.5	15.03	30.00	PASS
8	2447	MCS0	full	13	12.56	30.00	PASS
9	2452	MCS0	full	13	12.62	30.00	PASS
ĺ	2102	.,,,,,,,,	242/62	13	11.97	30.00	PASS

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802.11ax_HE40M MIMO									
СН	Freq. (MHz)	Data Rate	RU Config	Power set		Output wer CH 1	Total Peak Output Power (dBm)	Limit (dBm)	RESULT
3	2422	MCS0	full	15.5	23.66	23.11	26.40	30.00	PASS
3	2422	IVICSU	242/6	12.5	11.77	11.12	14.47	30.00	PASS
6	2437	MCS0	full	15.5	23.72	23.26	26.51	30.00	PASS
7	2442	MCS0	full	14	22.14	21.71	24.94	30.00	PASS
8	2447	MCS0	full	11.5	19.27	18.55	21.94	30.00	PASS
9	2452	MCS0	full	12	19.86	19.56	22.72	30.00	PASS
7	2432	IVICSO	242/6	13	23.37	23.36	26.38	30.00	PASS
802.1	lax_HE40	M MIMO)						
					Avg. C	utput	Max. Avg. Output		
СН	Freq.	Data	RU	Power	Po	wer	include tune up	Limit	RESULT
011	(MHz)	Rate	Config	set	(dE	Bm)	tolerance Power	(dBm)	KLOOLI
					CH 0	CH 1	(dBm)		
3	2422	MCS0	full	15.5	15.43	14.83	18.34	30.00	PASS
	2722	WCSO	242/6	12.5	11.73	11.08	14.61	30.00	PASS
6	2437	MCS0	full	15.5	15.66	14.95	18.52	30.00	PASS
7	2442	MCS0	full	14	14.05	13.44	16.95	30.00	PASS
8	2447	MCS0	full	11.5	11.26	10.84	14.25	30.00	PASS
9	2452	MCS0	full	12	11.85	11.37	14.81	30.00	PASS
′	2702	IVICO	242/6	13	11.98	11.96	15.17	30.00	PASS

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EMISSION BANDWIDTH MEASUREMENT

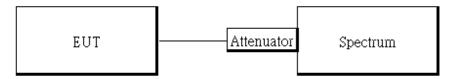
9.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz.

9.2 Measurement Equipment Used

Conducted Emission Test Site: Conducted 2						
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUM- BER	LAST CAL.	CAL DUE.	
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021	
Attenuator	Mini-Circuit	BW- S10W2+	2	12/16/2020	12/15/2021	
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021	

9.3 Test Set-up



9.4 Measurement Procedure

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance.
- 3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 4. Set the spectrum analyzer as

RBW= 100kHz,

VBW = 3 X RBW,

Span= 2 to 5 times of the OBW,

Sweep=auto,

Detector = Peak, and Max hold for -6dB Bandwidth test.

5. Set the spectrum analyzer as

RBW= 1 % to 5% of 99% Bandwidth,

VBW ≥ 3 X RBW,

Span= large enough to capture all products of the modulation process,

Sweep=auto,

Detector = Peak, and Max hold for 99% Bandwidth test.

- 6. Turn on the 99% bandwidth function, max reading.
- 7. Repeat above procedures until all test default channel is completed

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9.5 6dB Bandwidth

CDD

802.11b Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	8075.00	> 500	PASS
2437	7578.00	> 500	PASS
2462	8070.00	> 500	PASS

802.11b Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	7594.00	> 500	PASS
2437	8078.00	> 500	PASS
2462	8078.00	> 500	PASS

802.11g Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	16340.00	> 500	PASS
2437	16130.00	> 500	PASS
2462	15840.00	> 500	PASS

802.11a Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result			
2412	16370.00	> 500	PASS			
2437	16350.00	> 500	PASS			
2462	16340.00	> 500	PASS			

802.11_n_HT20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17340.00	> 500	PASS
2437	17230.00	> 500	PASS
2462	16670.00	> 500	PASS

802.11 n HT20 Ch1

	_		
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	17610.00	> 500	PASS
2437	17570.00	> 500	PASS
2462	17590.00	> 500	PASS

802.11_ax_HE20 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18880.00	> 500	PASS
2437	18680.00	> 500	PASS
2462	18420.00	> 500	PASS

802.11 ax HE20 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2412	18940.00	> 500	PASS
2437	18790.00	> 500	PASS
2462	18800.00	> 500	PASS

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802.11 n HT40 Ch0

	+0 00		
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35380.00	> 500	PASS
2437	35180.00	> 500	PASS
2452	35780.00	> 500	PASS

802.11 n HT40 Ch1

_	_		
Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35920.00	> 500	PASS
2437	35500.00	> 500	PASS
2452	36390.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	37330.00	> 500	PASS
2437	36620.00	> 500	PASS
2452	37980.00	> 500	PASS

802.11 ax HE40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result	
2422	37910.00	> 500	PASS	
2437	37230.00	> 500	PASS	
2452	38090.00	> 500	PASS	

*Refer to next page for plots

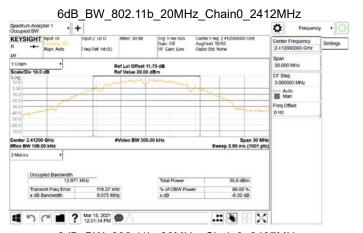
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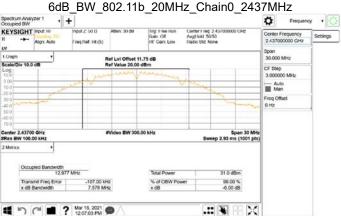
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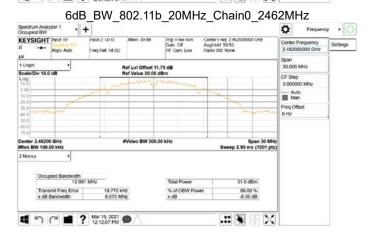
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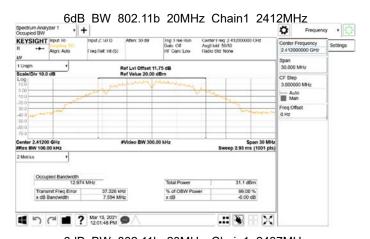


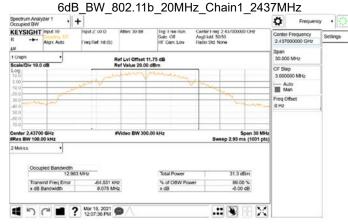
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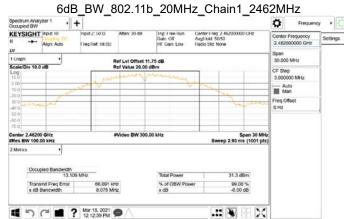












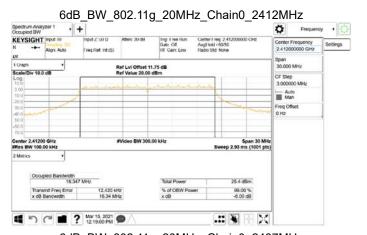
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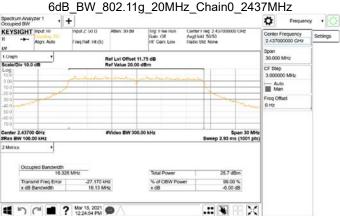
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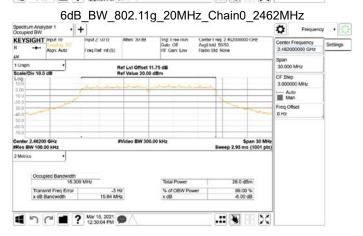
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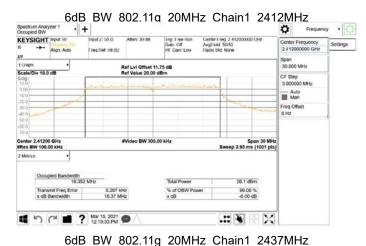


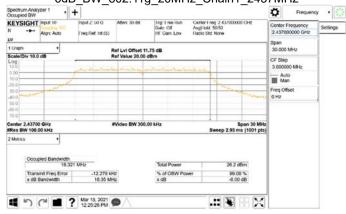
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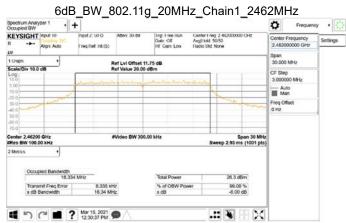












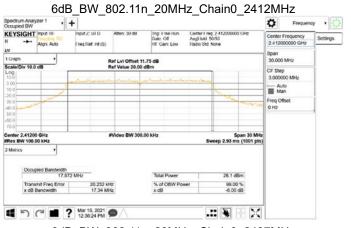
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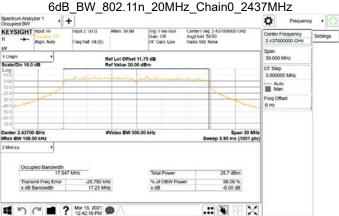
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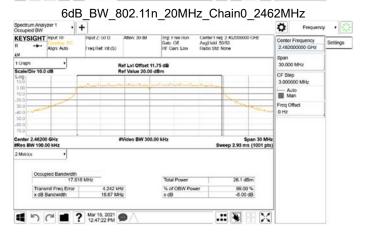
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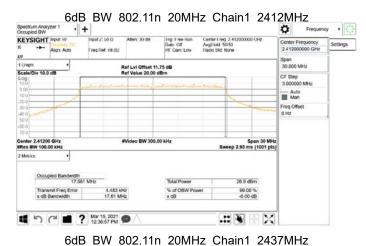


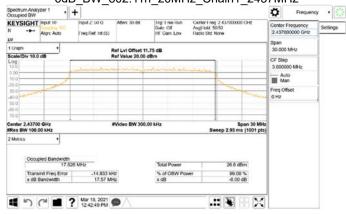
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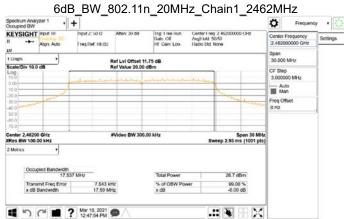












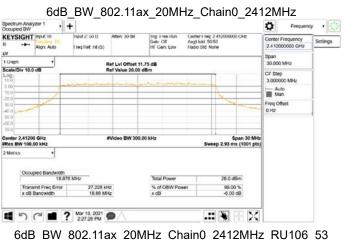
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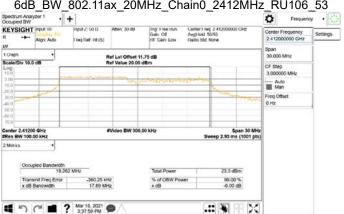
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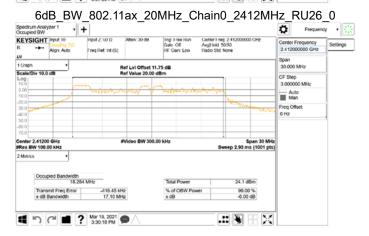
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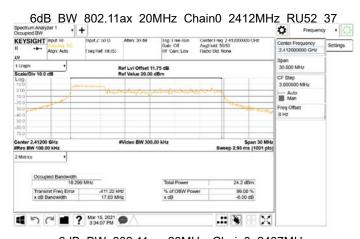


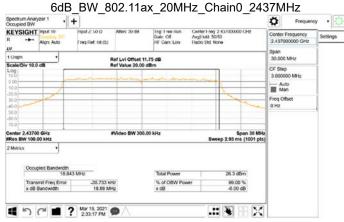
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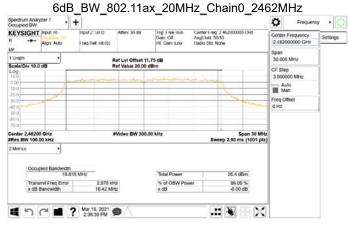












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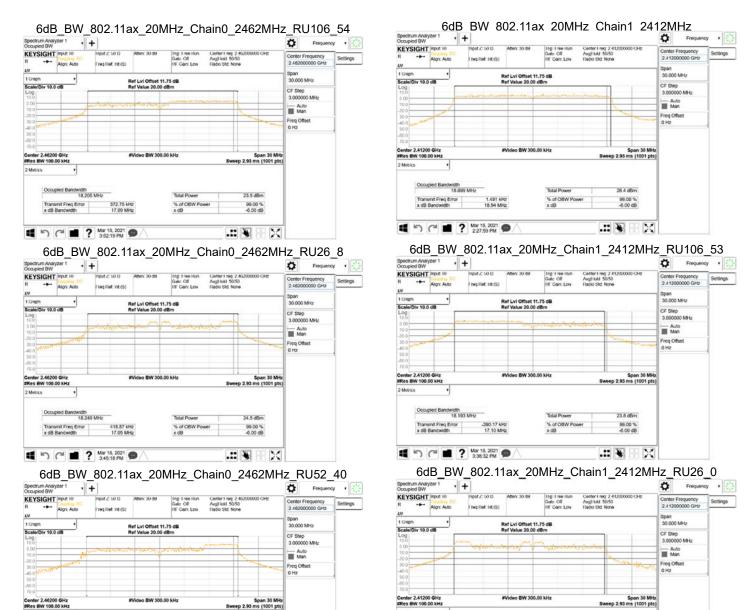
Occupied Bandwidth 18.350 MHz

Transmit Freq Error 364.19 kHz x dB Bandwidth 17.04 MHz

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24.1 dBm

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% of OBW Power x dB

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Occupied Bandwidth 18.238 MHz

Transmit Freq Error 431.91 kHz x d8 Bandwidth 17.07 MHz

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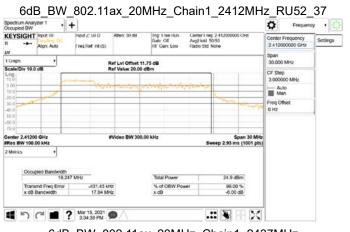
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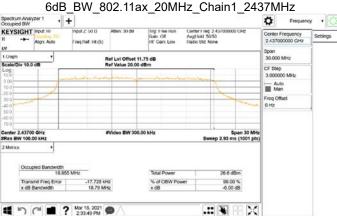
% of OBW Power x dB 24.9 dBm

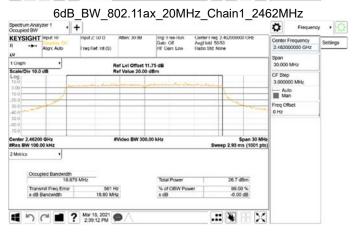
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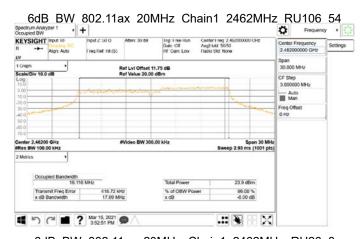


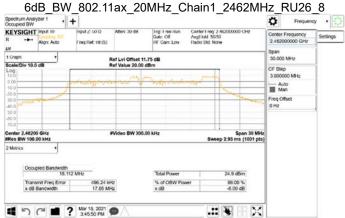
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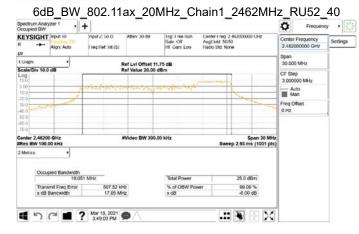












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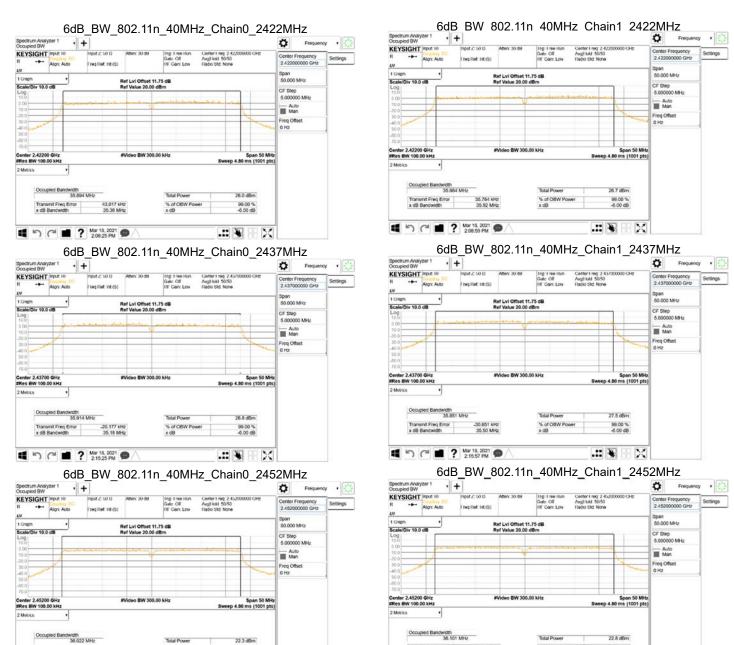
Transmit Freq Error -37.557 kHz x dB Bandwidth 35.78 MHz

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% of OBW Power x dB

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Transmit Freq Error 41.038 kHz x dB Bandwidth 36.39 MHz

1 5 C 1 ? Mar 15, 2021 9

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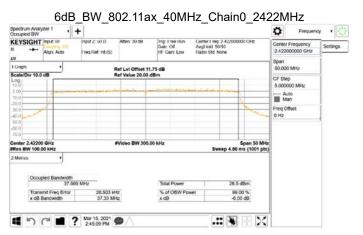
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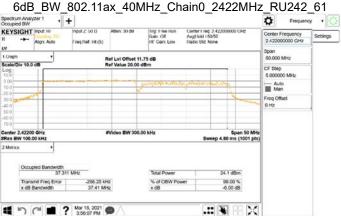
% of OBW Power x dB

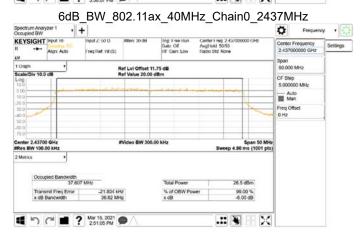
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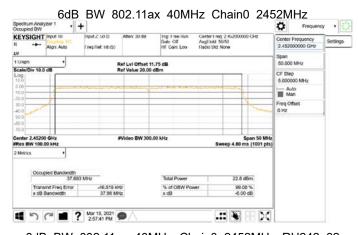


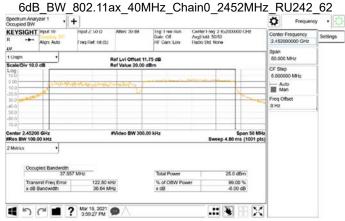
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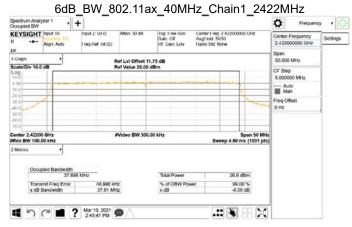












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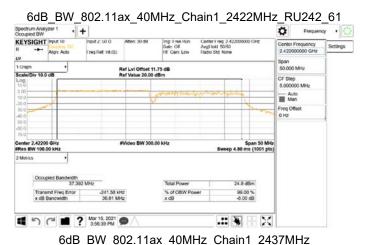
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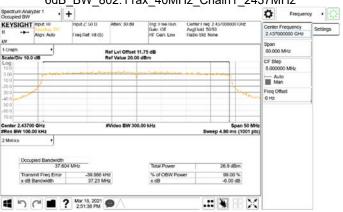
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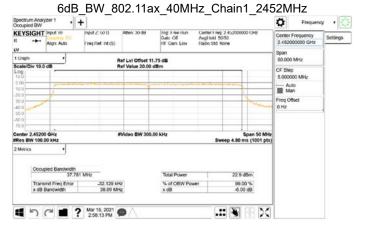
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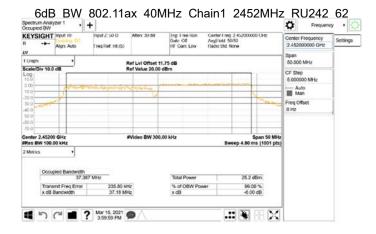


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Beamforming

802.11 n HT20 Ch0

002.11.21.21.120			
Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Nesuit
2412	17360.00	> 500	PASS
2437	17190.00	> 500	PASS
2462	16930.00	> 500	PASS

802.11_n_HT20 Ch1

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Kesuit
2412	17620.00	> 500	PASS
2437	17590.00	> 500	PASS
2462	17560.00	> 500	PASS

802.11 n HT40 Ch0

Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Resuit	
2422	35350.00	> 500	PASS	
2437	35180.00	> 500	PASS	
2452	35950.00	> 500	PASS	

802.11_n_HT40 Ch1

Freq. (MHz)	6dB BW (kHz)	Limit (kHz)	Result
2422	35920.00	> 500	PASS
2437	35140.00	> 500	PASS
2452	36380.00	> 500	PASS

802.11 ax HE20 Ch0

	_	_		
ĺ	Freq.	6dB BW	Limit	Result
	(MHz)	(kHz)	(kHz)	Result
	2412	18970.00	> 500	PASS
	2437	18780.00	> 500	PASS
ĺ	2462	18460.00	> 500	PASS

802.11_ax_HE20 Ch1

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Resuit
2412	18930.00	> 500	PASS
2437	18900.00	> 500	PASS
2462	18810.00	> 500	PASS

802.11_ax_HE40 Ch0

Freq.	6dB BW	Limit	Result
(MHz)	(kHz)	(kHz)	Kesuit
2422	36540.00	> 500	PASS
2437	37250.00	> 500	PASS
2452	37980.00	> 500	PASS

802 11 ax HF40 Ch1

002.11_dA_11L+0 O111				
Freq.	6dB BW	Limit	Result	
(MHz)	(kHz)	(kHz)	Resuit	
2422	37800.00	> 500	PASS	
2437	37220.00	> 500	PASS	
2452	38040.00	> 500	PASS	

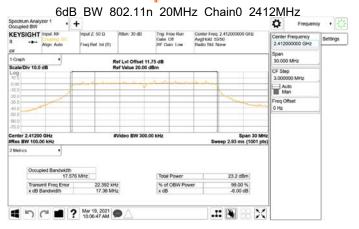
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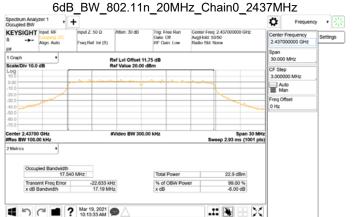
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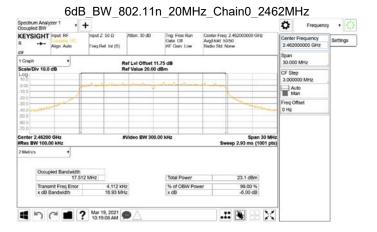
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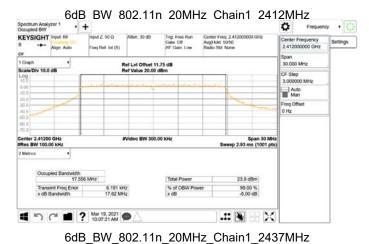


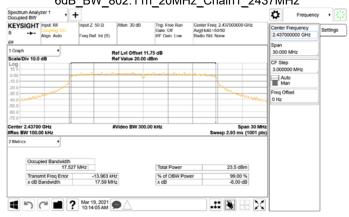
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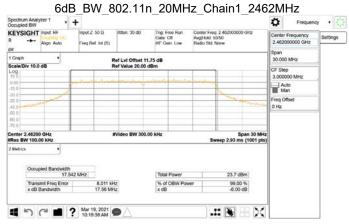












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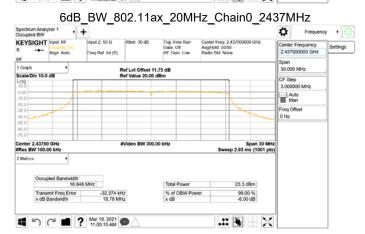
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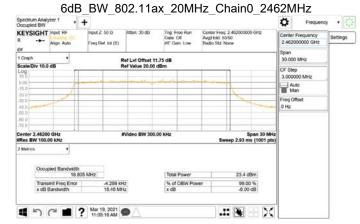
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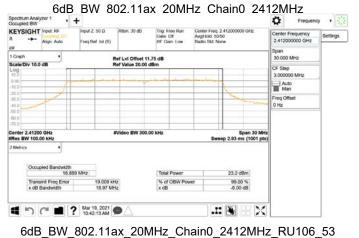


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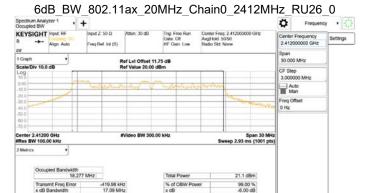
6dB BW 802.11ax 20MHz Chain0 2412MHz RU52 37 Frequency • 3.5 KEYSIGHT Input RF Input Z: 50 D Atten: 30 dB Span 30.000 MHz Scale/Div 10.0 dB CF Step Auto Man Freq Offset 0 Hz Center 2.41200 GHz #Res BW 100.00 kHz #Video BW 300.00 kHz Occupied Bandwidth 18.316 MHz Transmit Freq Error 411.79 kHz x dB Bandwidth 17.09 MHz ■ 9 Mar 19, 2021 ● △ .:: 🙀 — 🔀











■ ? Mar 19, 2021 ●

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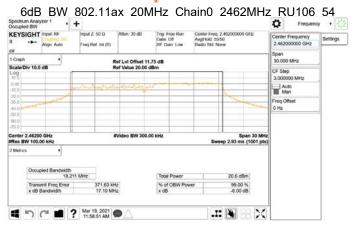
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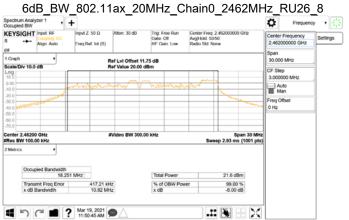
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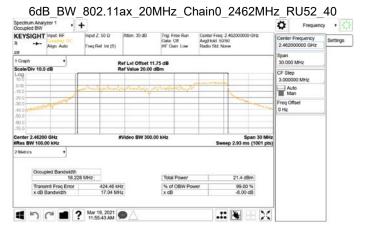
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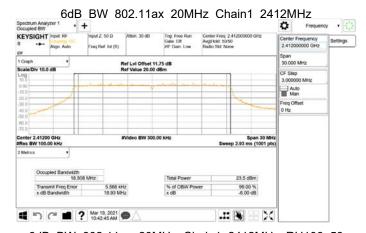


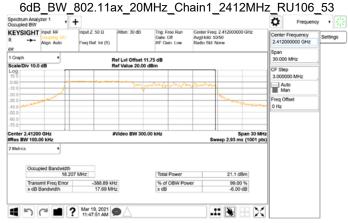
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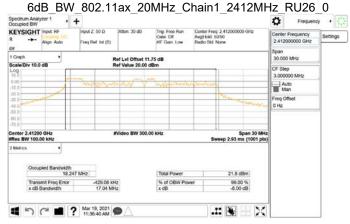












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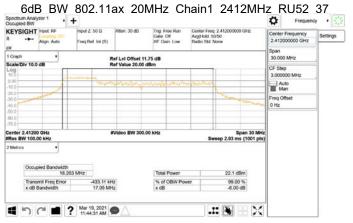
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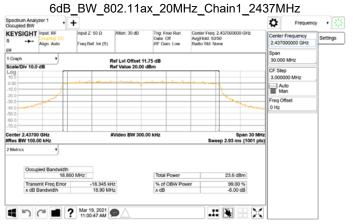
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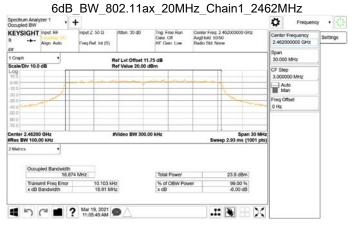
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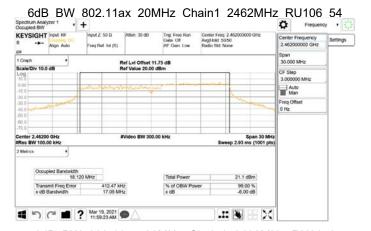


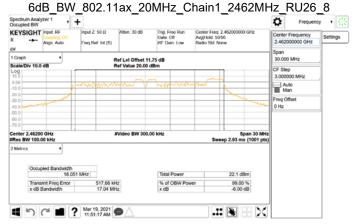
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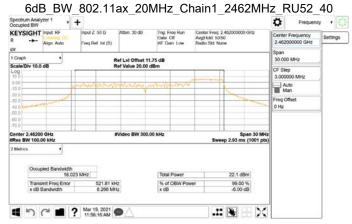












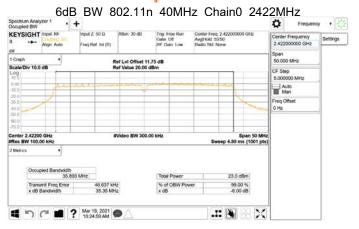
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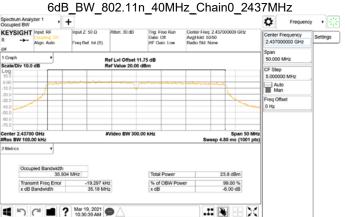
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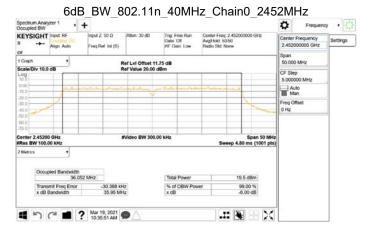
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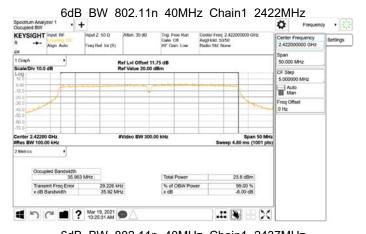


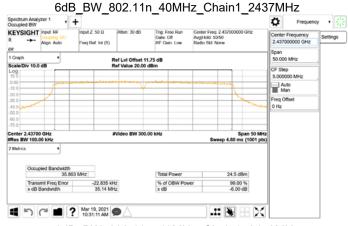
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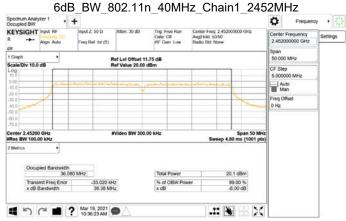












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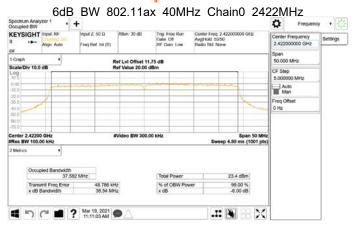
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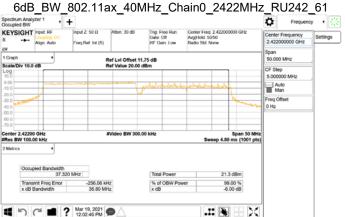
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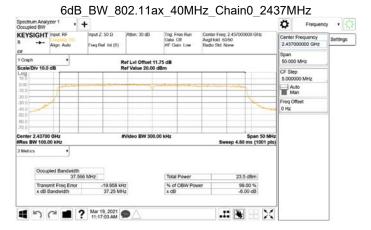
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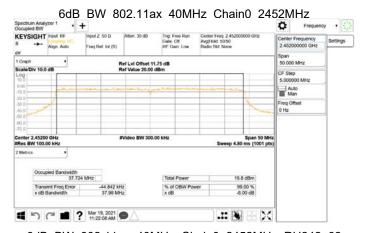


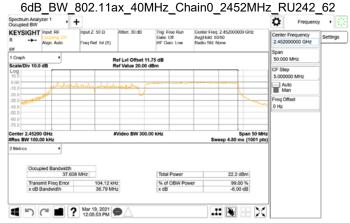
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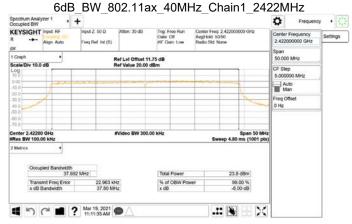












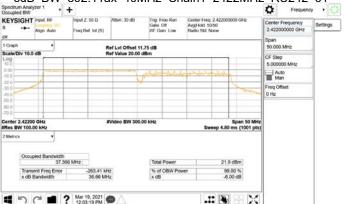
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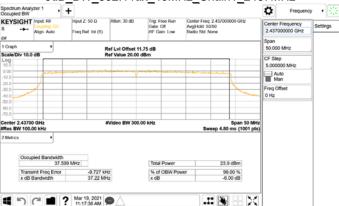
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6dB BW 802.11ax 40MHz Chain1 2422MHz RU242 61

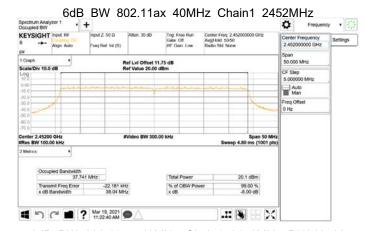


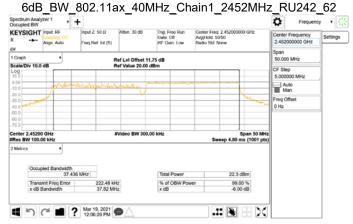
6dB_BW_802.11ax_40MHz_Chain1_2437MHz



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9.6 99% Bandwidth

CDD

802.11b Ch0		
Freq.	99% BW	
(MHz)	(MHz)	
2412	13.008	
2437	13.014	
2462	13.001	

802.11b Ch1		
Freq. 99% BW		
(MHz)	(MHz)	
2412	13.026	
2437	12.994	
2462	13.117	

802.11g Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	16.468
2437	16.461
2462	16.389

802.11g Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	16.429
2437	16.375
2462	16.41

802.11n_HT20M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	17.637
2437	17.582
2462	17.544

802.11n_HT20M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	17.598
2437	17.541
2462	17.568

802.11ax_HE20M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2412	18.959
2437	18.891
2462	18.868

802.11ax_HE20M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2412	18.962
2437	18.906
2462	18.904

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2437

2452

802.11n_HT40M Ch0
Freq. 99% BW
(MHz) (MHz)
2422 35.977

36.031 **36.162**

802.11n_HT40M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2422	35.961
2437	35.859
2452	36.112

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802.11ax_HE40M Ch0	
Freq.	99% BW
(MHz)	(MHz)
2422	37.634
2437	37.657
2452	37.739

802.11ax_HE40M Ch1	
Freq.	99% BW
(MHz)	(MHz)
2422	37.732
2437	37.636
2452	37.83

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解析方方式の子、上載音の表に無可規則の対象の理解を表しません。 本報音を表しません。 本稿音を表しません。 本稿音を表しません。

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99%_BW_802.11b_20MHz_Chain0_2412MHz 99%_BW_802.11b_20MHz_Chain1_2412MHz ٥ KEYSIGHT Input RF Center Frequency Settings 2.412000000 GHz KEYSIGHT Input RE Center Frequency Settings 2.412000000 GHz Span 30.000 MHz Scale/Div 10.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset Freq Offset 0 Hz Center 2.41200 GHz #Res BW 300.00 kHz #Video BW 1 0000 MH: Span 30 MHz Sweep 1.07 ms (1001 pts) #Video RW 1 0000 MH Span 30 MHz Sweep 1.07 ms (1001 pts) Res BW 300.00 kHz Occupied Bandwidth 13,008 MHz Occupied Bandwidth 13.026 MHz Transmit Freq Error x dB Bandwidth % of OBW Power Transmit Freq Error x dB Bandwidth % of OBW Power 99.00 % -6.00 dB 99.00 % -6.00 dB ■ 19 (2 mm ? Mar 15, 2021 mm ■ ? Mar 15, 2021 ● .:: 🕦 -- X .:: 🕦 H 💢 99% BW 802.11b 20MHz Chain0 2437MHz 99% BW 802.11b 20MHz Chain1 2437MHz Ö KEYSIGHT Input RF KEYSIGHT Input. RF Center Frequency 2.437000000 GHz Span 30.000 MHz Span 30.000 MHz Ref Lvl Offset 11.75 dB Ref Value 20.00 dBm Ref Lvi Offset 11.75 dB Ref Value 20.00 dBm . Div 15.0 dB . Div 15.0 dB CF Step 3.000000 MHz CF Step 3 000000 MHz Auto Man Man Auto Span 30 M ep 1.07 ms (1001 p Span 30 M Sweep 1.07 ms (1001 p Occupied Bandwidth 13.014 MHz Occupied Bandwidth 12.994 MHz % of OBW Power x dB Transmit Freq Error % of OBW Power x dB -63.175 kHz 99.00 % -6.00 dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB Mar 15, 2021 ■ 9 Mar 15, 2021 ● .# 🕦 🕾 💢 99% BW 802.11b 20MHz Chain0 2462MHz 99% BW 802.11b 20MHz Chain1 2462MHz ≎ ≎ KEYSIGHT Input RE KEYSIGHT Input RF Freq Ref. Int (S) Span 30.000 MHz span 30.000 MHz Scale/Div 15.0 dB Scale/Div 10.0 dB CF Step 3.000000 MHz CF Step 3.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz #Video BW 1,0000 MH; #Video BW 1,0000 MHz Occupied Bandwidth 13.117 MHz Occupied Bandwidth 13,001 MHz Total Power 27.3 dBm Total Power 27.6 dBm Transmit Freq Error x dB Bandwidth

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99.00 % -6.00 dB

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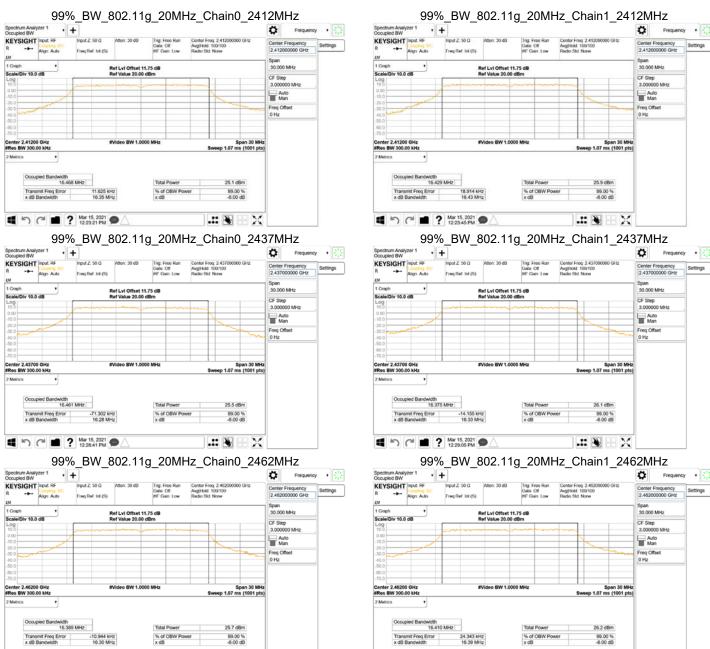
■ ? Mar 15, 2021 ●

1 5 C 2 7 Mar 15, 2021 9

99.00 % -6.00 dB



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■ ? Mar 15, 2021 ●

1 5 C 2 7 Mar 15, 2021 9 12:34:49 PM



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1 5 C 2 7 Mar 15, 2021 9

1 5 C 2 7 Mar 15, 2021 9



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99% BW 802.11n 40MHz Chain0 2422MHz 99%_BW_802.11n_40MHz_Chain1_2422MHz ٥ KEYSIGHT Input RF Center Frequency Settings 2.422000000 GHz KEYSIGHT Input RI Center Frequency Settings Span 50.000 MHz Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset Freq Offset 0 Hz Center 2.42200 GHz IRes BW 510.00 kHz #Video BW 1 5000 MH: Span 50 MHz Sweep 1.00 ms (1001 pts) Center 2.42200 GHz #Res BW 510.00 kHz #Video RW 1 5000 MH Span 50 MHz Sweep 1.00 ms (1001 pts) Occupied Bandwidth 35.977 MHz Occupied Bandwidth 35.961 MHz % of OBW Power x dB Transmit Freq Error x dB Bandwidth % of OBW Power 99.00 % -6.00 dB 99.00 % -6.00 dB ■ 15, 2021 ● ? Mar 15, 2021 ● ■ ? Mar 15, 2021 ● .:: 🕦 -- X .: 🕦 🗠 🔀 99% BW 802.11n 40MHz Chain0 2437MHz 99% BW 802.11n 40MHz Chain1 2437MHz KEYSIGHT Input RF KEYSIGHT Input RE Center Frequency 2.437000000 GHz Freq Ref: Int (S) Span 50.000 MHz Span 50.000 MHz Ref Lvl Offset 11.75 dB Ref Value 20.00 dBm Ref Lvi Offset 11.75 dB Ref Value 20.00 dBm CF Step 5.000000 MHz CF Step 6 000000 MHz Auto Man Man Auto Span 50 M p 1.00 ms (1001 p Occupied Bandwidth 36.031 MHz Occupied Bandwidth 35.859 MHz % of OBW Power x dB Transmit Freq Error -10.723 kHz 36.05 MHz % of OBW Power x dB 99.00 % -6.00 dB Transmit Freq Error x dB Bandwidth 99.00 % -6.00 dB ■ 9 Mar 15, 2021 ● ■ 9 C ■ ? Mar 15, 2021 ● .:: 👺 ::: 💥 99% BW 802.11n 40MHz Chain0 2452MHz 99% BW 802.11n 40MHz Chain1 2452MHz ≎ ≎ KEYSIGHT Input R KEYSIGHT Input Ri Span 50.000 MHz span 50.000 MHz Scale/Div 10.0 dE Scale/Div 10.0 dB CF Step 5.000000 MHz CF Step 5.000000 MHz Auto Man Auto Man Freq Offset 0 Hz Freq Offset 0 Hz #Video BW 1,5000 MH; #Video BW 1,5000 MHz Occupied Bandwidth 36.112 MHz Occupied Bandwidth 36.162 MHz

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22.0 dBm

99.00 % -6.00 dB

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Transmit Freq Error x dB Bandwidth

■ ? Mar 15, 2021 ●

1 5 C 2 2:25:48 PM

Total Power

23.4 dBm

99.00 % -6.00 dB