

FCC Test Report

Report No.: AGC02115210403FE06

FCC ID : 2AG6IANAFIAI
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : ANAFI Ai
BRAND NAME : Parrot
MODEL NAME : ANAFI Ai
APPLICANT : PARROT DRONE SAS
DATE OF ISSUE : Jul. 19, 2021
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0



Attestation of Global Compliance (Shenzhen) Co., Ltd



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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 19, 2021	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	PARROT DRONE SAS
Address	174 quai de jemmapes 75010 Paris France
Manufacturer	Shenzhen Allcomm Electronic Company Limited.
Address	272, Guangtian Road Left Side, Tangxiayong Community, Yanluo Street, Baoan, Shenzhen City, Guangdong Province, China
Factory	Shenzhen Allcomm Electronic Company Limited.
Address	272, Guangtian Road Left Side, Tangxiayong Community, Yanluo Street, Baoan, Shenzhen City, Guangdong Province, China
Product Designation	ANAFI Ai
Brand Name	Parrot
Test Model	ANAFI Ai
Date of test	Apr. 16, 2021~Jul. 19, 2021
Deviation	No any deviation from the test method
Condition of Test Sample	Normal
Test Result	Pass
Report Template	AGCRT-US-BGN/RF

We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. 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 tested as described in this report is in compliance with requirement of FCC Part 15 Rules requirement.

Prepared By



Donjon Huang
(Project Engineer)

Jul. 19, 2021

Reviewed By



Calvin Liu
(Reviewer)

Jul. 19, 2021

Approved By



Forrest Lei
Authorized Officer

Jul. 19, 2021

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “ANAFI Ai”. It is designed by way of utilizing the OFDM technology to achieve the system operation.

A major technical description of EUT is described as following

Operation Frequency	5150 MHz ~ 5250MHz; 5725 MHz ~ 5850MHz	
Output Power(5G 10MHz)	OFDM with data rate 6:24.83dBm; OFDM with data rate MCS0:24.50dBm	
Output Power(5G MIMO)	OFDM with data rate MCS0:27.19dBm	
Output Power(5G 20MHz)	IEEE 802.11A:24.50dBm; IEEE 802.11N:24.57dBm	
Output Power(5G MIMO)	IEEE 802.11N:27.53dBm	
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM, OFDM	
Modulation(5G 10MHz)	OFDM	
Number of channels	15	
Hardware Version	ANAFI2_MB_HW06	
Software Version	V1.0	
Antenna Designation	Integral antenna (Comply with requirements of the FCC part 15.203)	
Number of transmit chain	4 (802.11n/a uses four antennas, but 802.11a supports SISO, 802.11n supports MIMO, and only two antennas in the same direction are mutually MIMO) 4 (OFDM with data rate 6/ OFDM with data rate MCS0 uses four antennas, but OFDM with data rate 6 supports SISO, OFDM with data rate MCS0 supports MIMO, and only two antennas in the same direction are mutually MIMO)	
Antenna Gain	Band 1 Ant 1:5.5dBi; Ant 2: 5.5dBi Ant 3: 2.55dBi; Ant 4: 2.66dBi	Band 4 Ant 1:5.0dBi; Ant 2: 5.1dBi Ant 3: 2.3dBi; Ant 4: 2.65dBi
Power Supply	DC 11.55V by battery	

Note:

1. The EUT is client devices operating without radar detection.
2. The device do not support TPC.

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2.2. TABLE OF CARRIER FREQUENCIES

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
5150 GHz ~ 5250GHz	36	5180 MHz	5725 GHz ~ 5850GHz	149	5745 MHz
	40	5200 MHz		153	5765 MHz
	44	5220 MHz		157	5785 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

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2.3. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2AG6IANAFIAI** filing to comply with the FCC Part 15 requirements.

2.4. TEST METHODOLOGY

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013).

Radiated testing was performed at an antenna to EUT distance 3 meters.

Others testing (listed at item 5.3) was performed according to the procedures in FCC Part 15.407 rules KDB 789033 D02

2.5. SPECIAL ACCESSORIES

Refer to section 5.2.

2.6. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

2.7. ANTENNA REQUIREMENT

This intentional radiator is designed with a permanently attached antenna of an antenna to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

For more information of the antenna, please refer to the APPENDIX B: PHOTOGRAPHS OF EUT.

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2.8. DESCRIPTION OF AVAILABLE ANTENNAS

Antenna Type	Frequency Band (MHz)	TX Paths	Bandwidth (MHz)	Max Peak Gain (dBi)				Max Directional Gain (dBi)
				Ant 1	Ant 2	Ant 3	Ant 4	
5G WIFI Internal Antenna List (5GHz 2*2 MIMO)								
Internal Antenna	5150 ~ 5250	2	10,20	5.5	5.5	--	--	8.51
				--	--	2.55	2.66	
				5.5	--	2.55	--	
				--	5.5	--	2.66	
	5725 ~ 5850	2	10,20	5.0	5.1	--	--	8.11
				--	--	2.30	2.61	
				5.0	--	2.30	--	
				--	5.1	--	2.61	

Note 1: The EUT supports Cyclic Delay Diversity (CDD) technology for 802.11n mode.

Note 2: The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on devices:

$$\text{Array Gain} = 10 \log (N_{ANT} / N_{SS}) \text{ dB} = 3.01;$$

- For power measurements on IEEE 802.11 devices:

$$\text{Array Gain} = 0 \text{ dB for } N_{ANT} \leq 4;$$

$$\text{Array Gain} = 0 \text{ dB (i.e., no array gain) for channel widths } \geq 40 \text{ MHz for any } N_{ANT};$$

$$\text{Array Gain} = 5 \log(N_{ANT}/N_{SS}) \text{ dB or } 3 \text{ dB, whichever is less, for } 20 \text{ MHz channel widths with } N_{ANT} \geq 5.$$

If antenna gains are not equal, Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

Note 3: Antenna 1 corresponds to the front right of the EUT, antenna 2 corresponds to the front left of the EUT, antenna 3 corresponds to the right rear of the EUT, and antenna 4 corresponds to the left rear of the EUT.

3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Item	Measurement Uncertainty
Uncertainty of Conducted Emission for AC Port	$U_c = \pm 3.1 \text{ dB}$
Uncertainty of Radiated Emission below 1GHz	$U_c = \pm 4.0 \text{ dB}$
Uncertainty of Radiated Emission above 1GHz	$U_c = \pm 4.8 \text{ dB}$
Uncertainty of total RF power, conducted	$U_c = \pm 0.8 \text{ dB}$
Uncertainty of RF power density, conducted	$U_c = \pm 2.6 \text{ dB}$
Uncertainty of spurious emissions, conducted	$U_c = \pm 2 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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4. DESCRIPTION OF TEST MODES

Mode	Tested channel	Modulation	Date rate (Mbps)
802.11a/n20	36,40,48, 149,157,165	OFDM	6Mbps/MCS0
5G 10MHz	36,40,48, 149,157,165	OFDM	6Mbps/MCS0

Note:

1. The EUT has been set to operate continuously on tested channel individually, and the EUT is operating at its maximum duty cycle>or equal 98%.
2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
3. The test software is the QSPR V5.0-00099 which can set the EUT into the individual test modes.

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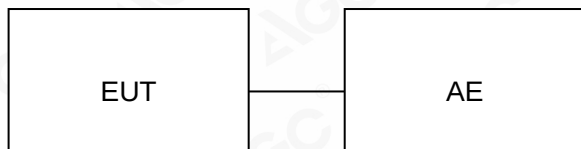
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	ANAFI Ai	ANAFI Ai	2AG61ANAFIAI	EUT
2	Battery	ANAFI2 Lithium-ion Polymer rechargeable Battery	DC 11.55V	EUT
3	Adapter	TY0500100E1MN	N/A	AE
4	Type-C line	N/A	N/A	AE

5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.407	6dB Bandwidth	Compliant
§15.407	Emission Bandwidth	Compliant
§15.407	Maximum conducted output power	Compliant
§15.407	Conducted Spurious Emission	Compliant
§15.407	Maximum Conducted Output Power Density	Compliant
§15.209	Radiated Emission	Compliant
§15.407	Band Edges	Compliant
§15.207	AC Line Conduction Emission	Compliant

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6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	May 15, 2020	May 14, 2021
TEST RECEIVER	R&S	ESPI	101206	May 13, 2021	May 12, 2022
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
LISN	R&S	ESH2-Z5	100086	Jun. 09, 2021	Jun. 08, 2022
Test software	R&S	ES-K1 (Ver V1.71)	N/A	N/A	N/A

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Apr. 14, 2021	Apr. 13, 2022
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 07, 2020	Dec. 06, 2021
Power sensor	Aglient	U2021XA	MY54110007	Jun. 08, 2020	Jun. 07, 2021
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Mar. 23, 2020	Mar. 22, 2022
Attenuator	ZHINAN	E-002	N/A	Sep. 03, 2020	Sep. 02, 2022
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.21, 2019	Sep. 20, 2021
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	May 22, 2020	May 21, 2022
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 17, 2019	May 16, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May 15, 2021	May 14, 2023
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Sep. 03, 2020	Sep. 02, 2022
ANTENNA	SCHWARZBECK	VULB9168	494	Sep. 20, 2019	Sep. 19, 2021
Test software	FARA	EZ-EMC(Ver.RA-03 A)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

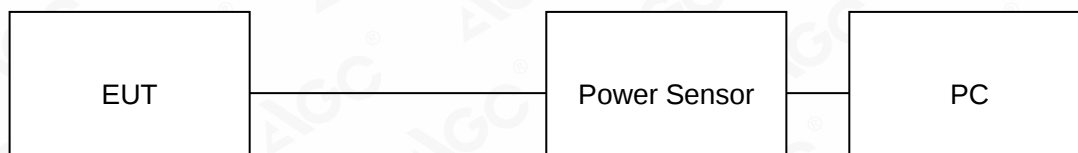
For average power test:

1. Connect EUT RF output port to power sensor through an RF attenuator.
2. Connect the power sensor to the PC.
3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
4. Record the maximum power from the software.

Note : The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

7.2. TEST SET-UP

AVERAGE POWER SETUP



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7.3. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5180	16.02	24	Pass
	5200	15.91	24	Pass
	5240	16.18	24	Pass
OFDM With Data Rate Mcs0	5180	12.16	24	Pass
	5200	13.17	24	Pass
	5240	13.10	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5180	15.45	24	Pass
	5200	15.83	24	Pass
	5240	15.83	24	Pass
OFDM With Data Rate Mcs0	5180	12.66	24	Pass
	5200	12.65	24	Pass
	5240	12.82	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5180	15.98	24	Pass
	5200	16.52	24	Pass
	5240	15.84	24	Pass
OFDM With Data Rate Mcs0	5180	12.49	24	Pass
	5200	12.74	24	Pass
	5240	13.04	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5180	15.83	24	Pass
	5200	15.92	24	Pass
	5240	15.78	24	Pass
OFDM With Data Rate Mcs0	5180	12.42	24	Pass
	5200	12.93	24	Pass
	5240	12.74	24	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5180	15.43	24	Pass
	5200	15.93	24	Pass
	5240	15.97	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 3+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5180	15.47	24	Pass
	5200	15.85	24	Pass
	5240	15.90	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 1+3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5180	15.34	24	Pass
	5200	15.97	24	Pass
	5240	16.08	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 2+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5180	15.55	24	Pass
	5200	15.80	24	Pass
	5240	15.79	24	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	18.73	24	Pass
	5200	19.07	24	Pass
	5240	18.88	24	Pass
802.11n20	5180	15.35	24	Pass
	5200	16.21	24	Pass
	5240	15.94	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	18.64	24	Pass
	5200	18.92	24	Pass
	5240	19.13	24	Pass
802.11n20	5180	15.89	24	Pass
	5200	15.97	24	Pass
	5240	16.05	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	18.59	24	Pass
	5200	18.73	24	Pass
	5240	18.86	24	Pass
802.11n20	5180	15.45	24	Pass
	5200	15.96	24	Pass
	5240	15.83	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5180	18.93	24	Pass
	5200	18.53	24	Pass
	5240	18.73	24	Pass
802.11n20	5180	15.87	24	Pass
	5200	15.51	24	Pass
	5240	15.37	24	Pass

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Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	18.64	24	Pass
	5200	19.10	24	Pass
	5240	19.01	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 3+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	18.68	24	Pass
	5200	18.75	24	Pass
	5240	18.62	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 1+3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	18.41	24	Pass
	5200	19.10	24	Pass
	5240	18.90	24	Pass

Test Data of Conducted Output Power for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 2+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5180	18.89	24	Pass
	5200	18.76	24	Pass
	5240	18.73	24	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5745	24.67	30	Pass
	5785	24.83	30	Pass
	5825	24.03	30	Pass
OFDM With Data Rate Mcs0	5745	23.67	30	Pass
	5785	24.18	30	Pass
	5825	23.72	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5745	24.68	30	Pass
	5785	24.35	30	Pass
	5825	23.99	30	Pass
OFDM With Data Rate Mcs0	5745	23.60	30	Pass
	5785	23.64	30	Pass
	5825	23.61	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5745	24.68	30	Pass
	5785	24.39	30	Pass
	5825	23.80	30	Pass
OFDM With Data Rate Mcs0	5745	23.86	30	Pass
	5785	24.18	30	Pass
	5825	23.78	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate 6	5745	24.66	30	Pass
	5785	24.48	30	Pass
	5825	23.93	30	Pass
OFDM With Data Rate Mcs0	5745	24.48	30	Pass
	5785	24.50	30	Pass
	5825	23.84	30	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5745	26.65	30	Pass
	5785	26.93	30	Pass
	5825	26.68	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 3+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5745	27.19	30	Pass
	5785	27.35	30	Pass
	5825	26.82	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 1+3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5745	26.78	30	Pass
	5785	27.19	30	Pass
	5825	26.76	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 2+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
OFDM With Data Rate Mcs0	5745	27.07	30	Pass
	5785	27.10	30	Pass
	5825	26.74	30	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 1				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	23.94	30	Pass
	5785	24.50	30	Pass
	5825	24.14	30	Pass
802.11n20	5745	24.51	30	Pass
	5785	24.46	30	Pass
	5825	23.89	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	24.01	30	Pass
	5785	23.92	30	Pass
	5825	24.13	30	Pass
802.11n20	5745	23.87	30	Pass
	5785	24.57	30	Pass
	5825	24.05	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	23.99	30	Pass
	5785	23.67	30	Pass
	5825	24.14	30	Pass
802.11n20	5745	23.76	30	Pass
	5785	23.56	30	Pass
	5825	23.94	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	23.94	30	Pass
	5785	23.59	30	Pass
	5825	24.03	30	Pass
802.11n20	5745	23.81	30	Pass
	5785	23.76	30	Pass
	5825	24.21	30	Pass

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Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 1+2				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	27.21	30	Pass
	5785	27.53	30	Pass
	5825	26.98	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 3+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	26.80	30	Pass
	5785	26.67	30	Pass
	5825	27.09	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 1+3				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	27.16	30	Pass
	5785	27.04	30	Pass
	5825	26.93	30	Pass

Test Data of Conducted Output Power for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 2+4				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11n20	5745	26.85	30	Pass
	5785	27.19	30	Pass
	5825	27.14	30	Pass

Note: 1.E.I.R.P (dBm) = Average Output Power (dBm) + Antenna Gain (dBi).

2.The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 2 Average Power} / 10)}\}$.

3. The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 3 Average Power} / 10)} + 10^{(\text{Ant 4 Average Power} / 10)}\}$.

4. The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 1 Average Power} / 10)} + 10^{(\text{Ant 3 Average Power} / 10)}\}$.

5. The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 2 Average Power} / 10)} + 10^{(\text{Ant 4 Average Power} / 10)}\}$.

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8. BANDWIDTH

8.1. MEASUREMENT PROCEDURE

-6dB bandwidth (DTS bandwidth):

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on operation frequency individually.
3. Set RBW = 100kHz.
4. Set the VBW $\geq 3 \times$ RBW. Detector = Peak. Trace mode = max hold.
5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission.

99% occupied bandwidth:

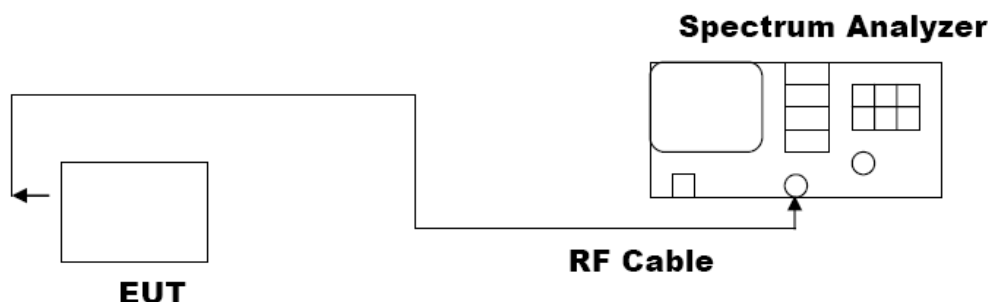
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

-26dB Bandwidth:

1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW $>$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the maximum of the emission.
Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

8.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)



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8.3. LIMITS AND MEASUREMENT RESULTS

Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz- Bandwidth 10 MHz of antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
OFDM With Data Rate 6	5180	8.175	9.556	N/A	PASS
	5200	8.192	9.666	N/A	PASS
	5240	8.164	9.446	N/A	PASS
OFDM With Data Rate Mcs0	5180	8.736	9.930	N/A	PASS
	5200	8.742	9.923	N/A	PASS
	5240	8.739	10.131	N/A	PASS

Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz- Bandwidth 10 MHz of antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
OFDM With Data Rate 6	5745	8.392	7.896	0.5	Pass
	5785	8.327	7.816	0.5	Pass
	5825	8.325	7.851	0.5	Pass
OFDM With Data Rate Mcs0	5745	8.871	8.272	0.5	Pass
	5785	8.879	8.281	0.5	Pass
	5825	8.873	7.851	0.5	Pass

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Test Data of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz- Bandwidth 20 MHz of antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	-26dB Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5180	16.313	19.243	N/A	Pass
	5200	16.286	18.721	N/A	Pass
	5240	16.267	18.719	N/A	Pass
802.11n20	5180	17.390	19.385	N/A	Pass
	5200	17.381	19.573	N/A	Pass
	5240	17.373	19.731	N/A	Pass

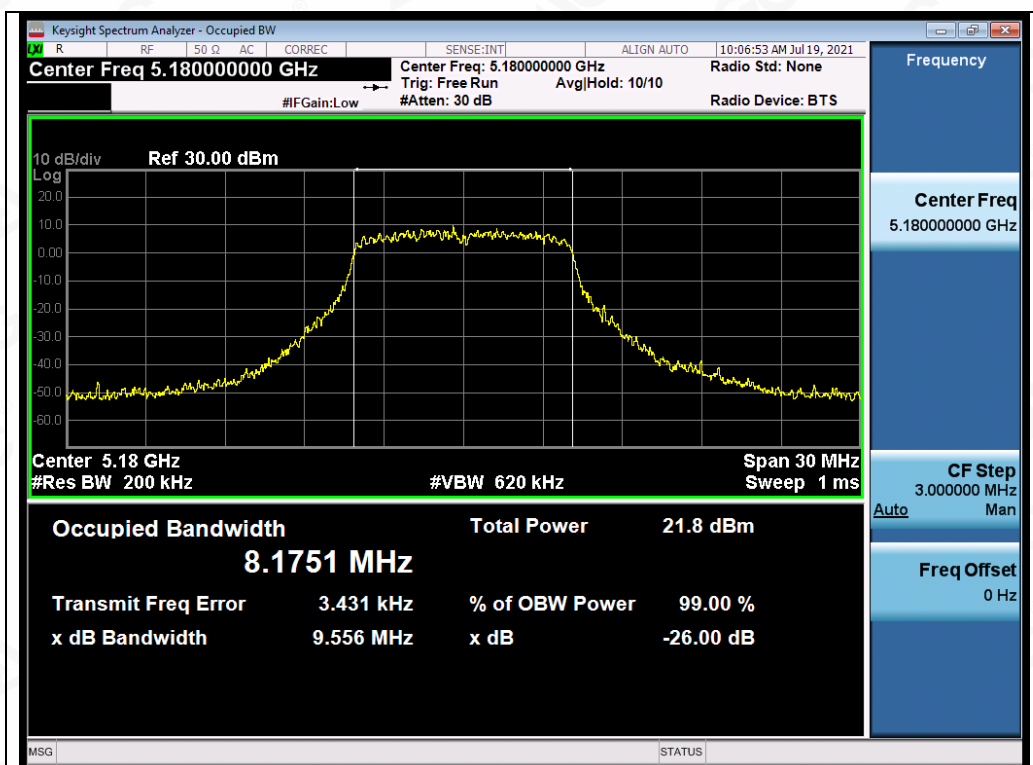
Test Data of Occupied Bandwidth and DTS Bandwidth for band 5.725-5.85 GHz- Bandwidth 20 MHz of antenna 1					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.578	15.055	0.5	Pass
	5785	16.570	15.315	0.5	Pass
	5825	16.578	15.992	0.5	Pass
802.11n20	5745	17.586	15.070	0.5	Pass
	5785	17.578	14.986	0.5	Pass
	5825	17.526	15.046	0.5	Pass

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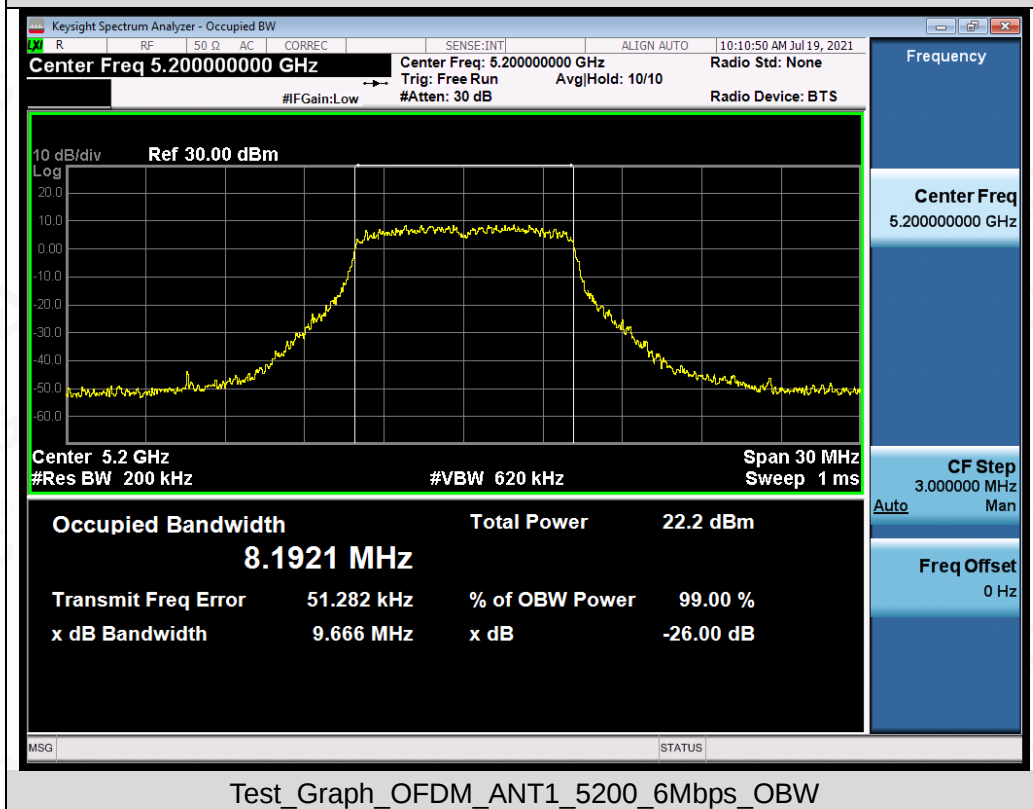
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz bandwidth 10 MHz



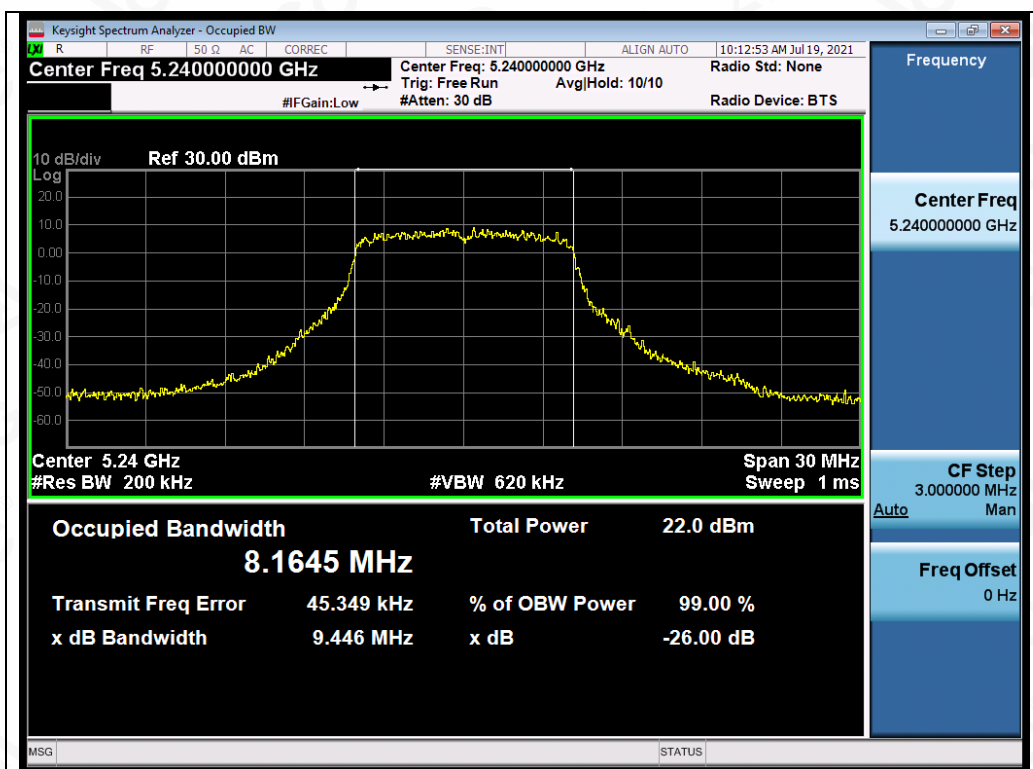
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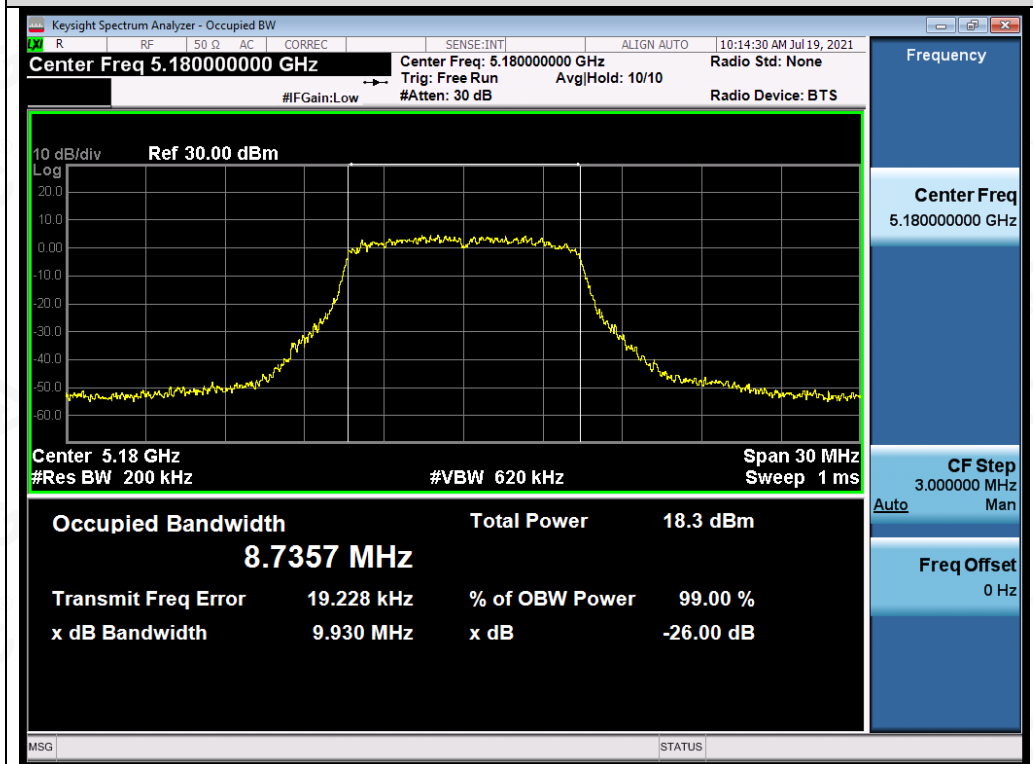
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Test_Graph_OFDM_ANT1_5240_6Mbps_OBW

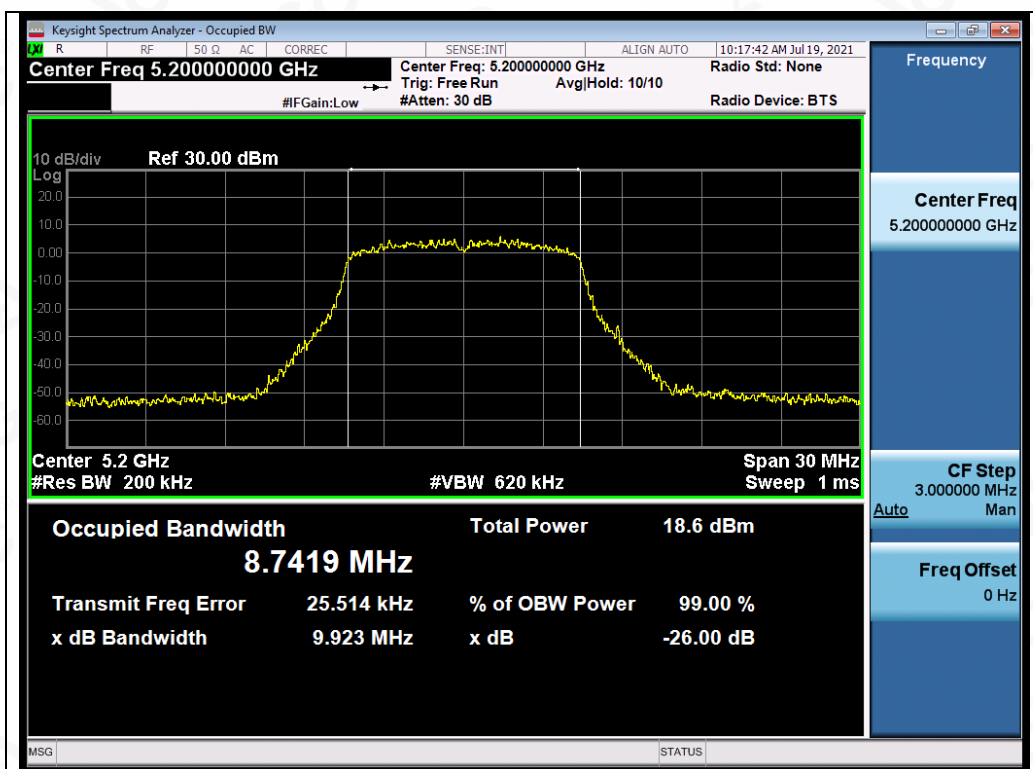


Test_Graph_OFDM_ANT1_5180_MCS0_OBW

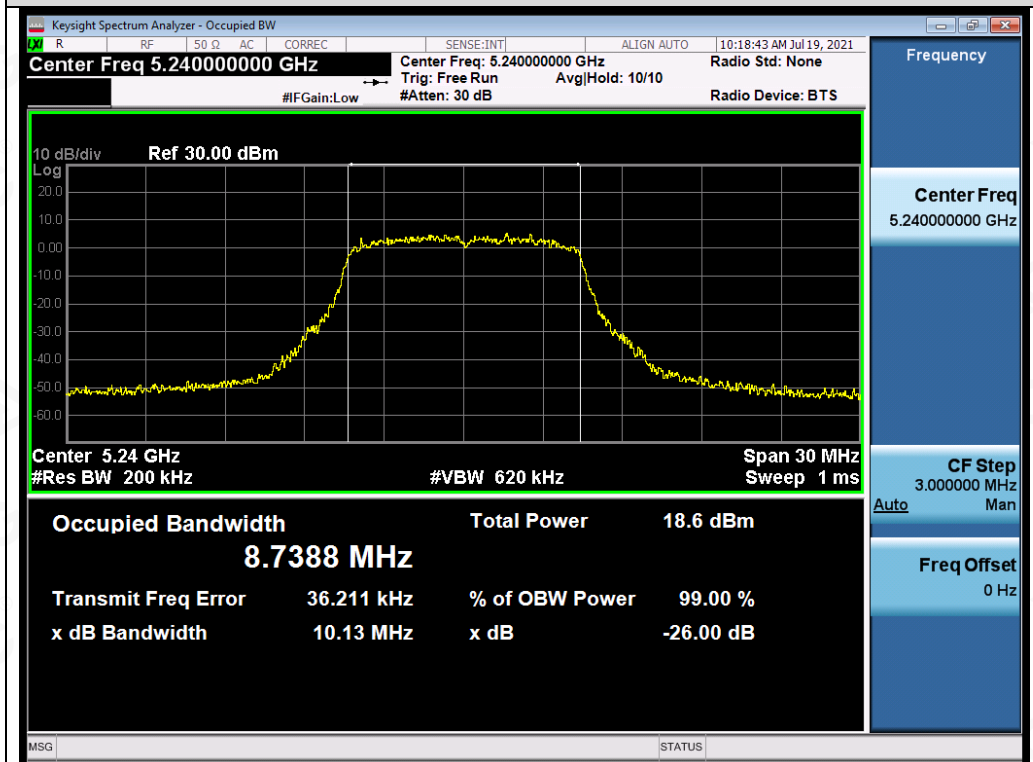
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Test_Graph_OFDM_ANT1_5200_MCS0_OBW



Test_Graph_OFDM_ANT1_5240_MCS0_OBW

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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_OFDM_ANT1_5745_6Mbps_OBW



Test_Graph_OFDM_ANT1_5785_6Mbps_OBW

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Test_Graph_OFDM_ANT1_5825_6Mbps_OBW



Test_Graph_OFDM_ANT1_5745_MCS0_OBW

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Test_Graph_OFDM_ANT1_5785_MCS0_OBW



Test_Graph_OFDM_ANT1_5825_MCS0_OBW

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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_OFDM_ANT1_5745_6Mbps_DTSBW



Test_Graph_OFDM_ANT1_5785_6Mbps_DTSBW

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Test_Graph_OFDM_ANT1_5825_6Mbps_DTSBW



Test_Graph_OFDM_ANT1_5745_MCS0_DTSBW

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Test_Graph_OFDM_ANT1_5785_MCS0_DTSBW



Test_Graph_OFDM_ANT1_5825_MCS0_DTSBW

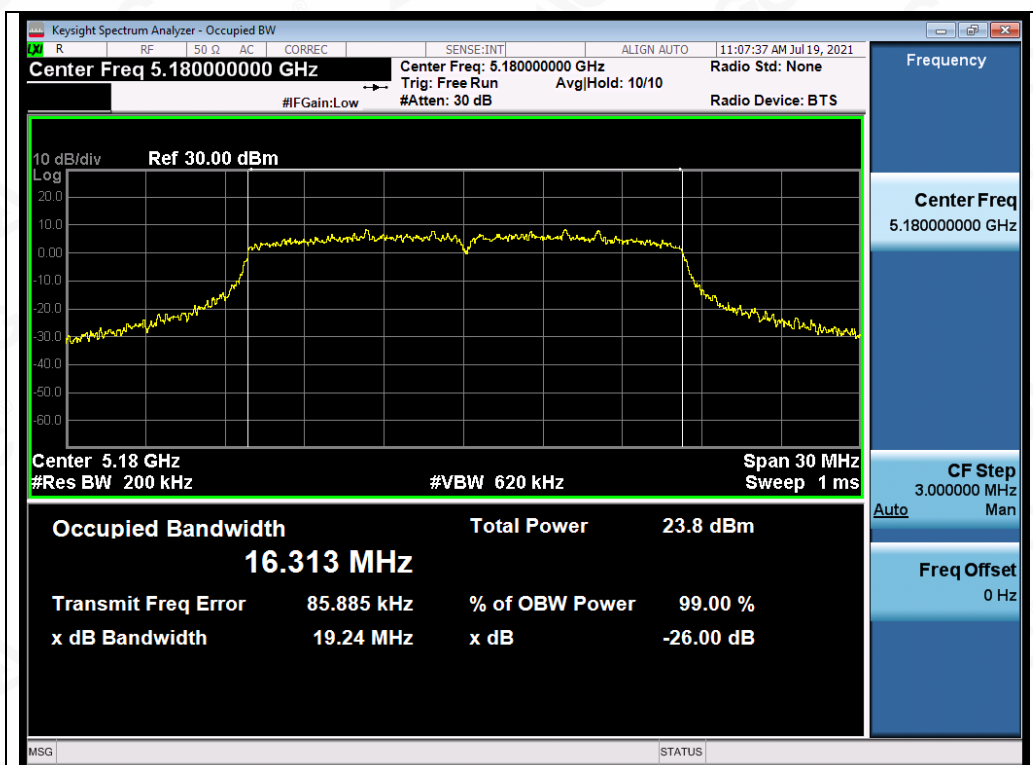
Note: Band 1 and Band 4 bandwidth tests only reflect the data of antenna 1.

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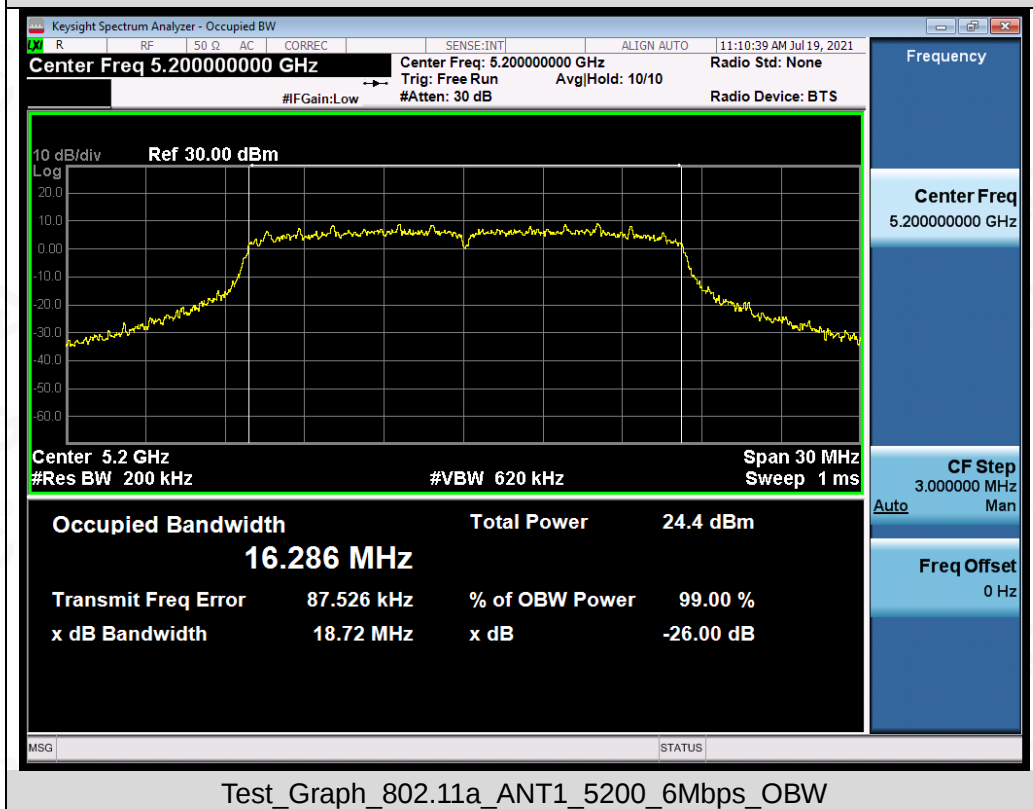
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Test Graphs of Occupied Bandwidth and -26dB Bandwidth for band 5.15-5.25 GHz -bandwidth 20 MHz



Test_Graph_802.11a_ANT1_5180_6Mbps_OBW



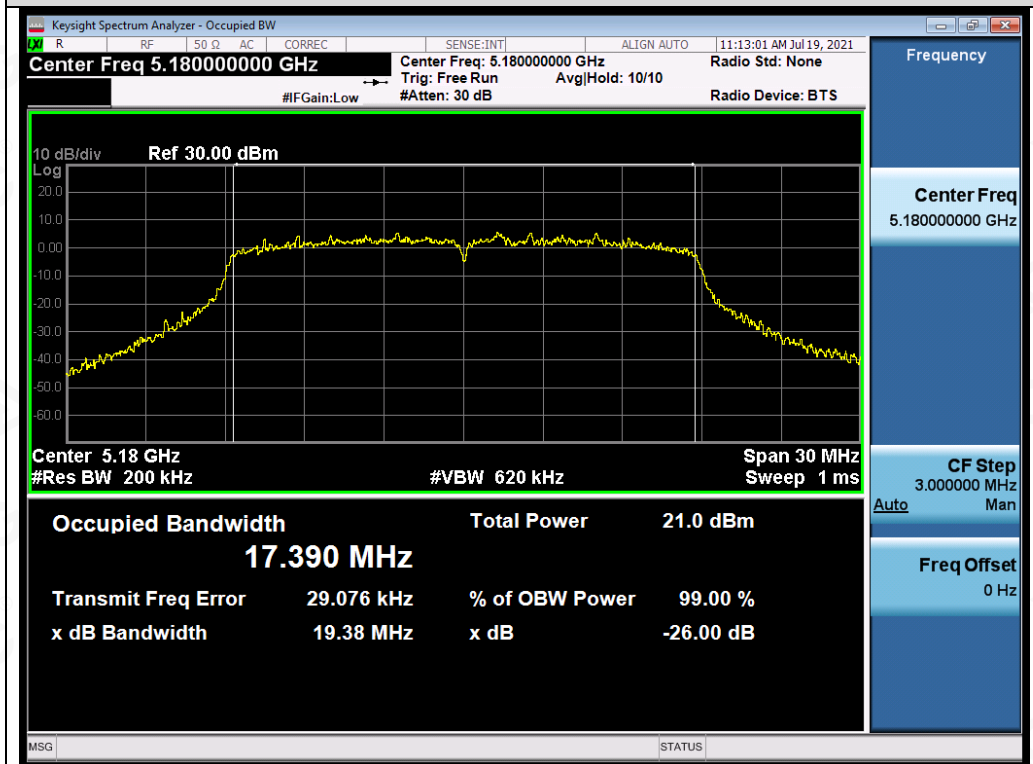
Test_Graph_802.11a_ANT1_5200_6Mbps_OBW

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Test_Graph_802.11a_ANT1_5240_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5180_MCS0_OBW

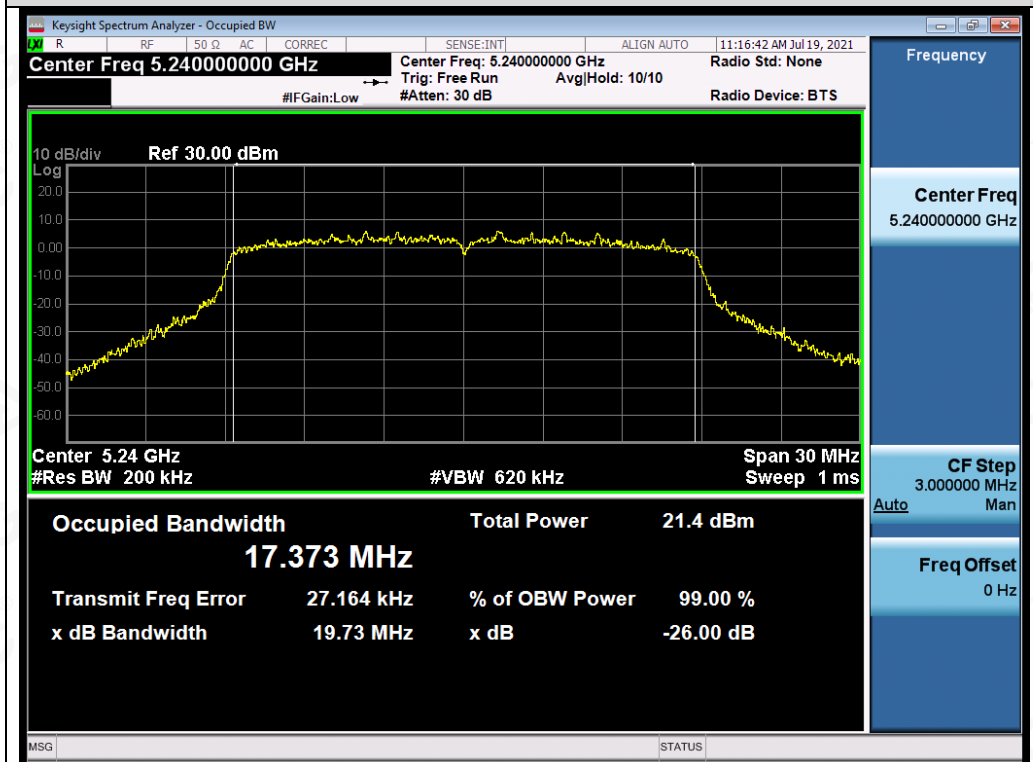
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Test_Graph_802.11n20_ANT1_5200_MCS0_OBW



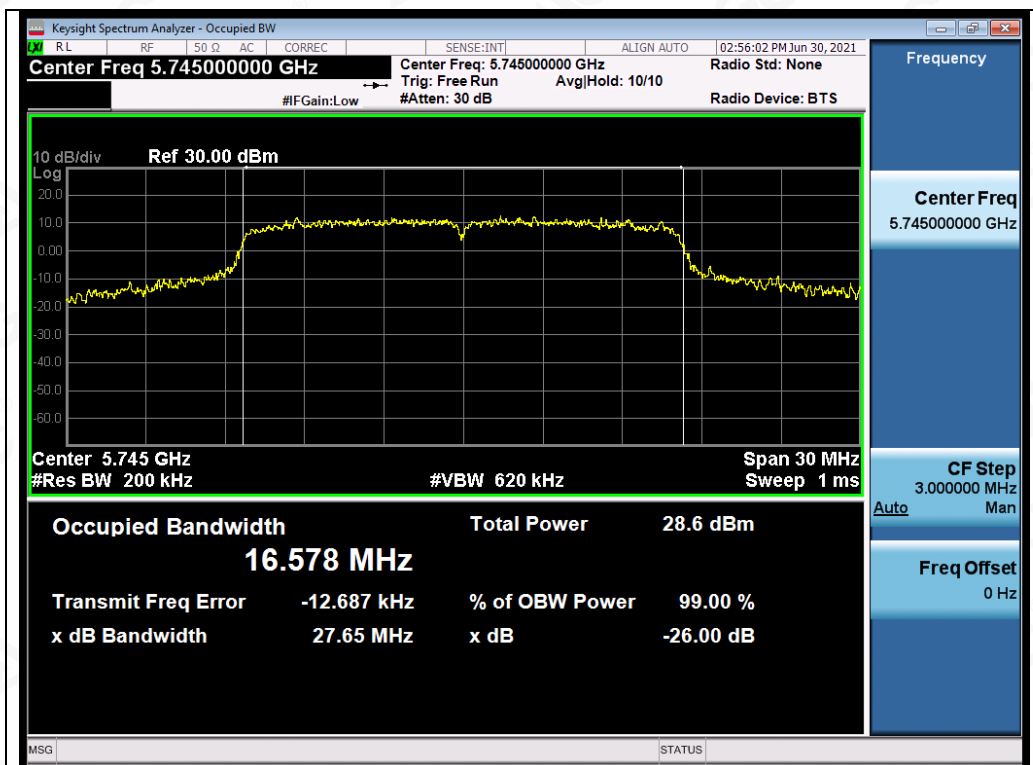
Test_Graph_802.11n20_ANT1_5240_MCS0_OBW

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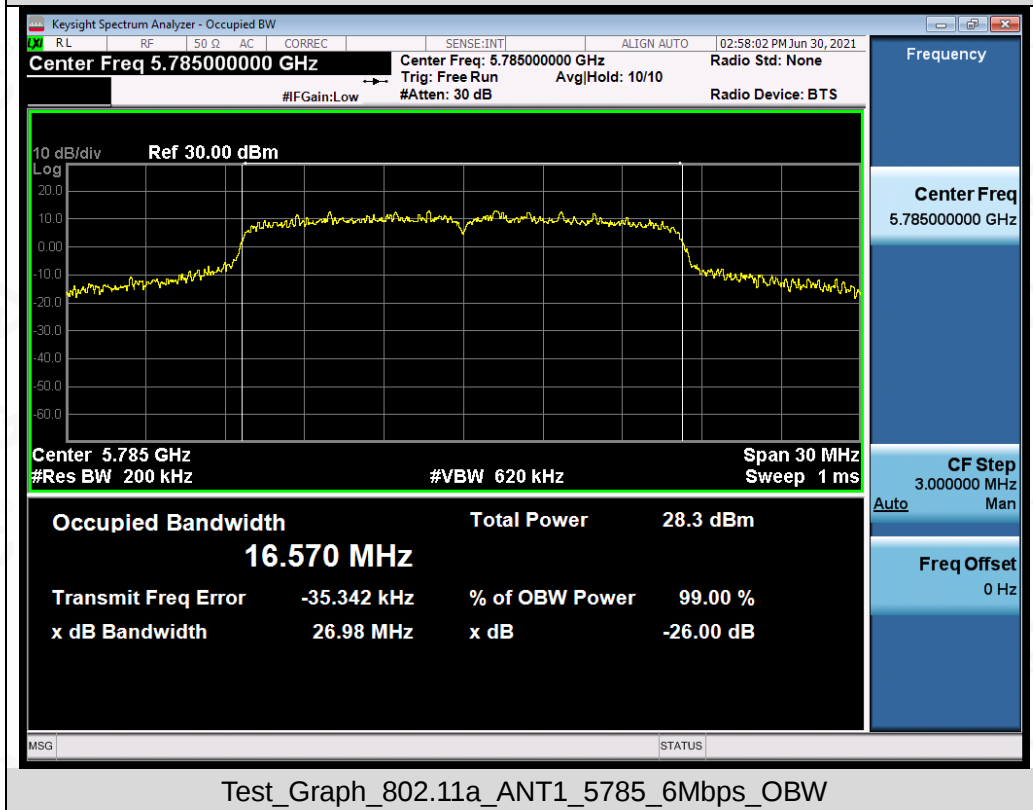
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz -Bandwidth 20 MHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW

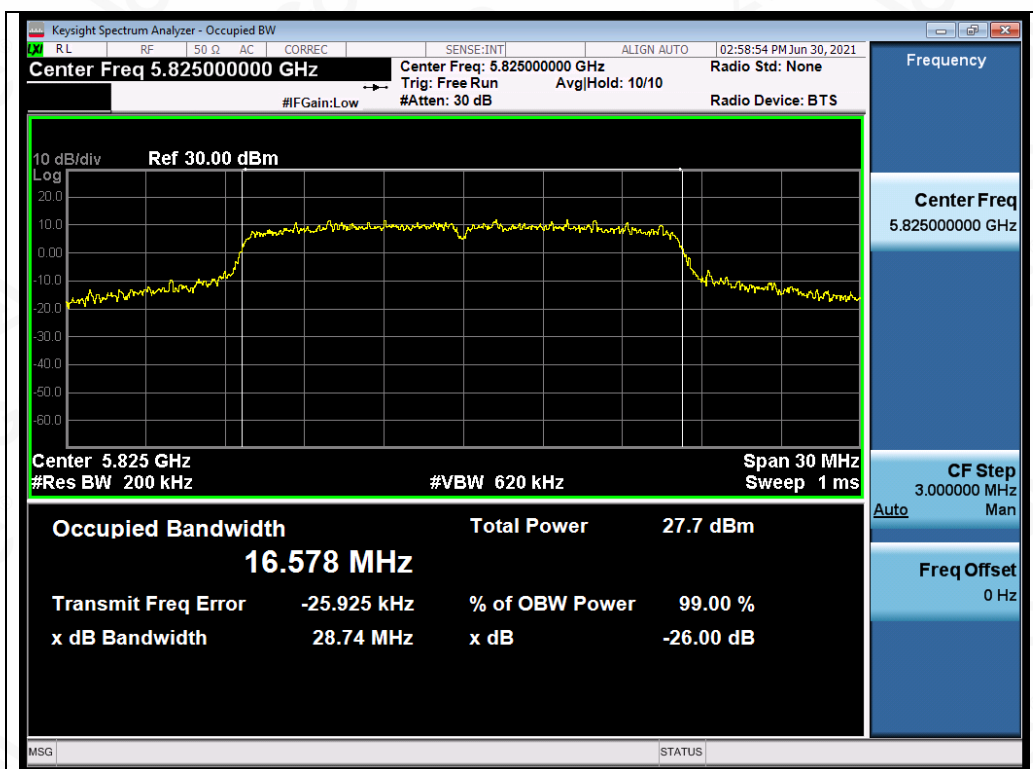


Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

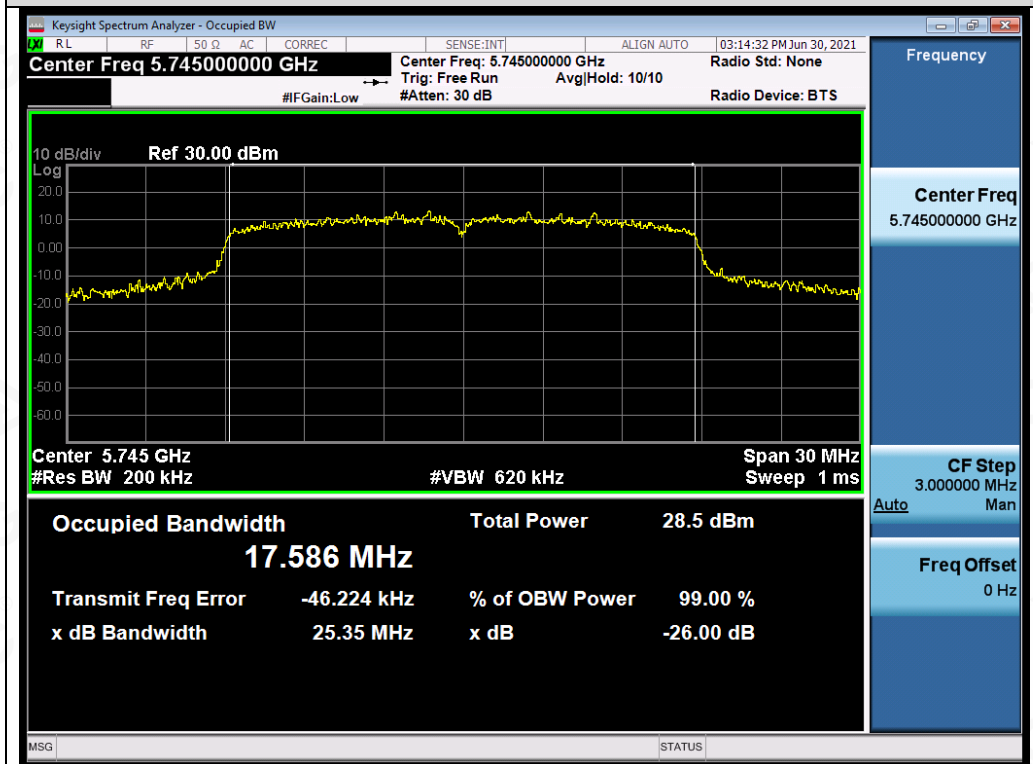
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Test_Graph_802.11a_ANT1_5825_6Mbps_OBW



Test_Graph_802.11n20_ANT1_5745_MCS0_OBW

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