

FCC Test Report

Report No.: AGC02115200601FE06

FCC ID : 2AG6IANAFIM3
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : ANAFI USA
BRAND NAME : PARROT
MODEL NAME : anamk3
APPLICANT : PARROT DRONE SAS
DATE OF ISSUE : Sep. 02, 2020
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	/	Sep. 02, 2020	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	PARROT DRONE SAS
Address	174 Quai de Jemmapes, Paris 75010 France
Manufacturer	NEO Tech
Address	125 Fisher St, Westborough, MA 01581, États-Unis
Factory	NEO Tech
Address	125 Fisher St, Westborough, MA 01581, États-Unis
Product Designation	ANAFI USA
Brand Name	PARROT
Test Model	anamk3
Date of test	Aug. 12, 2020 to Sep. 02, 2020
Deviation	None
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

Sky Dong

Sky Dong
(Project Engineer)

Sep. 02, 2020

Reviewed By

Max Zhang

Max Zhang
(Reviewer)

Sep. 02, 2020

Approved By

Forrest Lei

Forrest Lei
(Authorized Officer)

Sep. 02, 2020

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “ANAFI USA”. It is designed by way of utilizing the OFDM technology to achieve the system operation. It is an outdoor access point device.

A major technical description of EUT is described as following

Operation Frequency	5150 MHz~5250MHz;5725 MHz~5850MHz
Output Power(5G WIFI)	IEEE 802.11a20:16.43dBm; IEEE 802.11n20:15.19dBm
Output Power(5G 10MHz)	OFDM with data rate 6:15.23dBm; OFDM with data rate MCS0:14.21dBm
Modulation(5G WIFI)	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Modulation(5G 10MHz)	OFDM
Number of channels	9
Hardware Version	HW00
Software Version	anafi-ua-1.2.2-rc2
Antenna Designation	Integral Antenna
Number of transmit chain	4(802.11n20/a all used four antennas,but 802.11a support SISO and 802.11n20 support MIMO)
Directional gain	All transmit signals are completely uncorrelated with each other
Antenna Gain	5.1G band: 3dBi 5.8G band: 2.5dBi
Power Supply	DC 11.55V by battery or DC 5V by adapter

Note: 1. The EUT has four antennas. Antenna 1 is the Front Left Antenna; Antenna 2 is the Front Right Antenna; Antenna 3 is the Back Left Antenna; Antenna 4 is the Back Right Antenna.

2. Device is a just a 2x2 MIMO system. Antenna 1& 2, Antenna 1&3, Antenna 3& 4, Antenna 2& 4 can transmit simultaneously. Device does not support 3TX & 4TX mode.

3. The maximum antenna gain is 3dBi, the device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So: Directional gain = $G_{ANT} + \text{Array Gain} = 3\text{dBi} < 6\text{dBi}$

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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

Note: For 10/20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165;

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

This submittal(s) (test report) is intended for **FCC ID: 2AG6IANAFIM3** 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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3. MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the “Guide to the Expression of Uncertainty in measurement” (GUM) published by CISPR and ANSI.

- Uncertainty of Conducted Emission, $U_c = \pm 3.2$ dB
- Uncertainty of Radiated Emission below 1GHz, $U_c = \pm 3.9$ dB
- Uncertainty of Radiated Emission above 1GHz, $U_c = \pm 4.8$ dB

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4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20	36,40,44,48,149,153,157,161,165	36,48,149, 157,165	OFDM	6/6.5
5G 10MHz	36,40,44,48,149,153,157,161,165	36,48,149, 157,165	OFDM	6/6.5

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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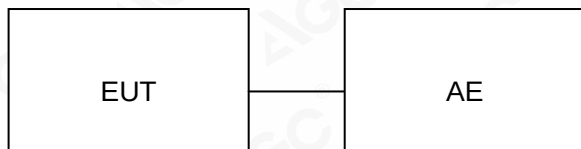
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5. SYSTEM TEST CONFIGURATION

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 USA	anamk3	2AG6IANAFIM3	EUT
3	Adapter	N/A	N/A	Market with EUT
4	Charger 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	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
LISN	R&S	ESH2-Z5	100086	Jul. 03,2020	Jul. 02,2021
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	May 15, 2020	May 14, 2021
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec. 12, 2019	Dec. 11, 2020
Power sensor	Aglient	U2021XA	MY54110007	Sep. 10, 2019	Sep. 09, 2020
2.4GHz Fliter	Micro-tronics	087	N/A	Feb. 26, 2020	Feb. 25, 2021
Attenuator	Weinachel Corp	58-30-33	N/A	Sep. 09, 2019	Sep. 08, 2020
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
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	00034609	May. 17, 2019	May. 16, 2021
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May. 17, 2019	May. 16, 2021
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Oct. 15, 2019	Oct. 16, 2020
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep. 20, 2019	Sep. 19, 2021
Test software	Tonscend	JS32-RE (Ver.2.5)	N/A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

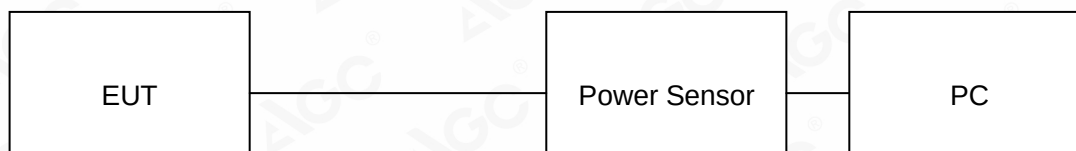
For average power test:

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

LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE 6 MODULATION -bandwidth 10 MHz							
Frequency (MHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Chain 3 (dBm)	Average Power Chain 4 (dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	15.23	14.96	15.11	14.94	N/A	30	Pass
5200	14.21	13.55	13.99	13.99	N/A	30	Pass
5240	14.04	13.16	13.87	13.29	N/A	30	Pass
5745	13.46	12.93	13.45	13.21	N/A	30	Pass
5785	13.30	12.96	13.08	12.96	N/A	30	Pass
5825	13.15	13.05	12.84	12.62	N/A	30	Pass
Frequency (MHz)	EIRP Chain 1 (dBm)	EIRP Chain 2 (dBm)	EIRP Chain 3 (dBm)	EIRP Chain 4 (dBm)	EIRP Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	16.54	16.18	16.29	16.25	N/A	21	Pass
5200	15.36	14.59	15.15	15.37	N/A	21	Pass
5240	15.44	14.35	15.20	14.72	N/A	21	Pass

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LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE MCS0 MODULATION-bandwidth 10 MHz										
Frequency (MHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Chain 3 (dBm)	Average Power Chain 4 (dBm)	Average Power Total 1+2 (dBm)	Average Power Total 3+4 (dBm)	Average Power Total 1+3 (dBm)	Average Power Total 2+4 (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	11.15	10.27	10.92	10.55	13.74	13.75	14.05	13.42	30	Pass
5200	11.08	10.96	10.19	10.86	14.03	13.55	13.67	13.92	30	Pass
5240	10.92	10.63	10.84	10.25	13.79	13.57	13.89	13.45	30	Pass
5745	11.26	10.31	11.13	10.92	13.82	14.04	14.21	13.64	30	Pass
5785	11.12	11.05	11.01	10.28	14.10	13.67	14.08	13.69	30	Pass
5825	11.10	10.74	10.28	10.59	13.93	13.45	13.72	13.68	30	Pass
Frequency (MHz)	EIRP Chain 1 (dBm)	EIRP Chain 2 (dBm)	EIRP Chain 3 (dBm)	EIRP Chain 4 (dBm)	EIRP Total 1+2 (dBm)	EIRP Total 3+4 (dBm)	EIRP Total 1+3 (dBm)	EIRP Total 2+4 (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	12.34	11.75	12.28	11.68	15.07	15.00	15.23	14.73	21	Pass
5200	12.16	12.01	11.42	12.14	15.10	14.81	14.82	15.09	21	Pass
5240	12.36	11.77	12.19	11.60	15.09	14.92	15.29	14.70	21	Pass

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LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE 6 MODULATION -bandwidth 20 MHz							
Frequency (MHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Chain 3 (dBm)	Average Power Chain 4 (dBm)	Average Power Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	16.18	15.59	15.81	15.49	N/A	30	Pass
5200	16.39	15.83	16.17	15.47	N/A	30	Pass
5240	16.37	15.91	16.12	16.29	N/A	30	Pass
5745	16.43	15.91	15.49	16.12	N/A	30	Pass
5785	16.24	15.81	16.02	15.3	N/A	30	Pass
5825	16.19	15.7	15.54	15.32	N/A	30	Pass
Frequency (MHz)	EIRP Chain 1 (dBm)	EIRP Chain 2 (dBm)	EIRP Chain 3 (dBm)	EIRP Chain 4 (dBm)	EIRP Total(dBm)	Applicable Limits (dBm)	Pass or Fail
5180	17.28	16.67	16.99	16.97	N/A	21	Pass
5200	17.67	17.16	17.62	16.69	N/A	21	Pass
5240	17.62	17.31	17.41	17.75	N/A	21	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11 N MODULATION-bandwidth 20 MHz										
Frequency (MHz)	Average Power Chain 1 (dBm)	Average Power Chain 2 (dBm)	Average Power Chain 3 (dBm)	Average Power Chain 4 (dBm)	Average Power Total 1+2 (dBm)	Average Power Total 3+4 (dBm)	Average Power Total 1+3 (dBm)	Average Power Total 2+4 (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	12.22	11.93	11.56	11.28	15.09	14.43	14.91	14.63	30	Pass
5200	12.29	11.54	11.65	11.96	14.94	14.82	14.99	14.77	30	Pass
5240	11.99	11.62	11.47	11.43	14.82	14.46	14.75	14.54	30	Pass
5745	12.18	11.31	12.17	11.38	14.78	15.19	14.80	14.36	30	Pass
5785	12.13	11.88	11.37	11.41	15.02	14.78	14.40	14.66	30	Pass
5825	12.16	11.74	11.28	11.43	14.97	14.75	14.37	14.60	30	Pass
Frequency (MHz)	EIRP Chain 1 (dBm)	EIRP Chain 2 (dBm)	EIRP Chain 3 (dBm)	EIRP Chain 4 (dBm)	EIRP Total 1+2 (dBm)	EIRP Total 3+4 (dBm)	EIRP Total 1+3 (dBm)	EIRP Total 2+4 (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	13.35	13.33	13.02	12.58	16.35	15.82	16.20	15.98	21	Pass
5200	13.31	12.90	12.82	13.31	16.12	16.08	16.08	16.12	21	Pass
5240	13.33	13.08	12.92	12.72	16.22	15.83	16.14	15.91	21	Pass

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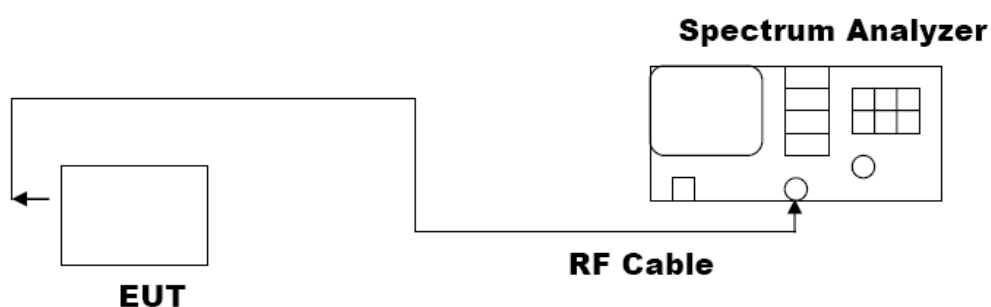
8. 6dB BANDWIDTH

8.1. MEASUREMENT PROCEDURE

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.

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

LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE 6 MODULATION-bandwidth 10 MHz				
Test Frequency (MHz)	-6dB BANDWIDTH		99% OCCUPIED BANDWIDTH	
	Data (MHz)	LIMIT	Data (MHz)	Criteria
5745	7.861	>500KHZ	8.113	PASS
5785	7.960	>500KHZ	8.118	PASS
5825	7.960	>500KHZ	8.130	PASS

LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE MCS0 MODULATION-bandwidth 10 MHz				
Test Frequency (MHz)	-6dB BANDWIDTH		99% OCCUPIED BANDWIDTH	
	Data (MHz)	LIMIT	Data (MHz)	Criteria
5745MHz	7.789	>500KHZ	8.699	PASS
5785MHz	7.645	>500KHZ	8.690	PASS
5825MHz	7.800	>500KHZ	8.676	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION-bandwidth 20 MHz				
Test Frequency (MHz)	-6dB BANDWIDTH		99% OCCUPIED BANDWIDTH	
	Data (MHz)	LIMIT	Data (MHz)	Criteria
5745	15.14	>500KHZ	16.246	PASS
5785	15.11	>500KHZ	16.258	PASS
5825	13.14	>500KHZ	16.256	PASS

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LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION-bandwidth 20 MHz				
Test Frequency (MHz)	-6dB BANDWIDTH		99% OCCUPIED BANDWIDTH	
	Data (MHz)	LIMIT	Data (MHz)	Criteria
5745MHz	15.10	>500KHZ	17.380	PASS
5785MHz	15.04	>500KHZ	17.383	PASS
5825MHz	15.08	>500KHZ	17.379	PASS

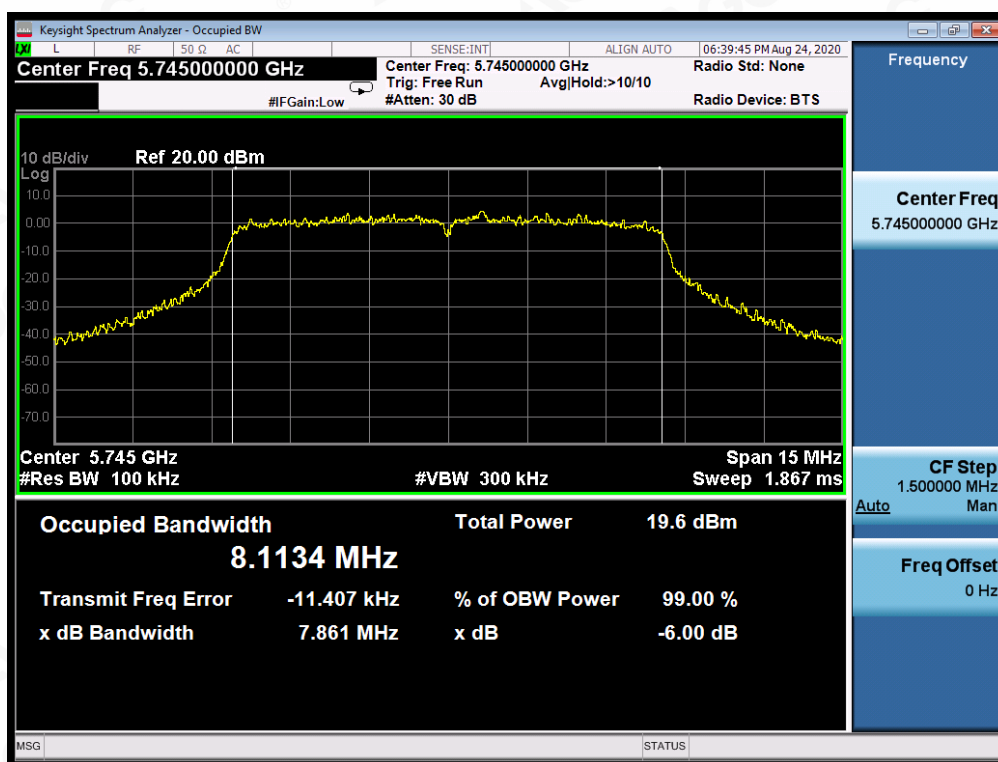
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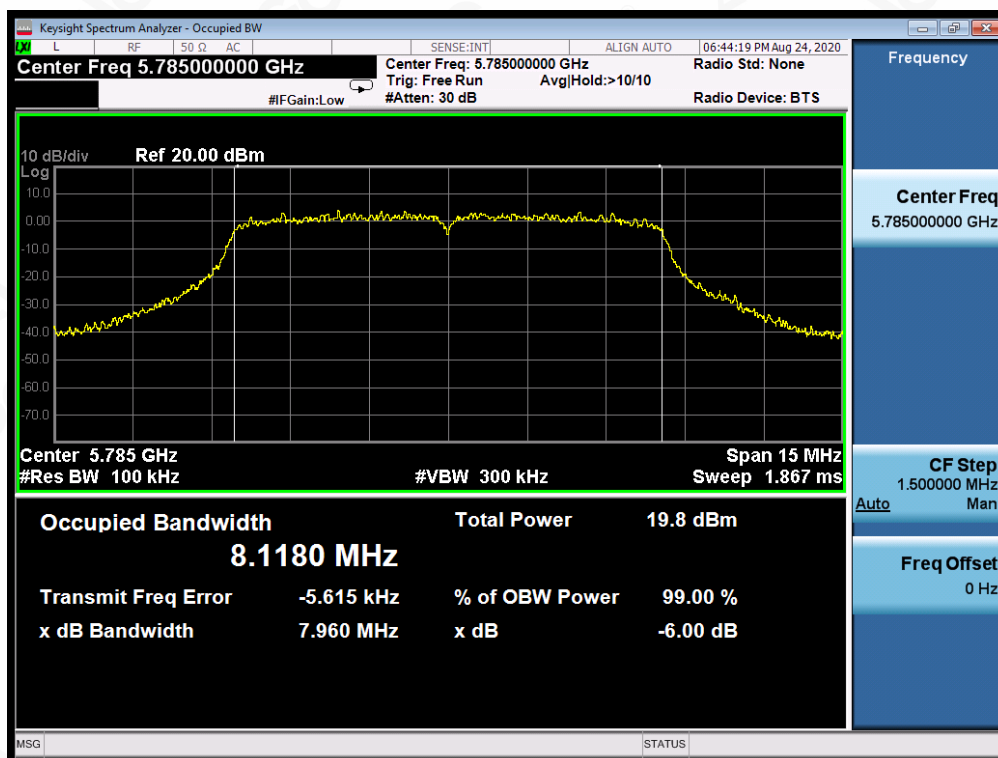


OFDM WITH DATA RATE 6 TEST RESULT-bandwidth 10 MHz

TEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5785MHz

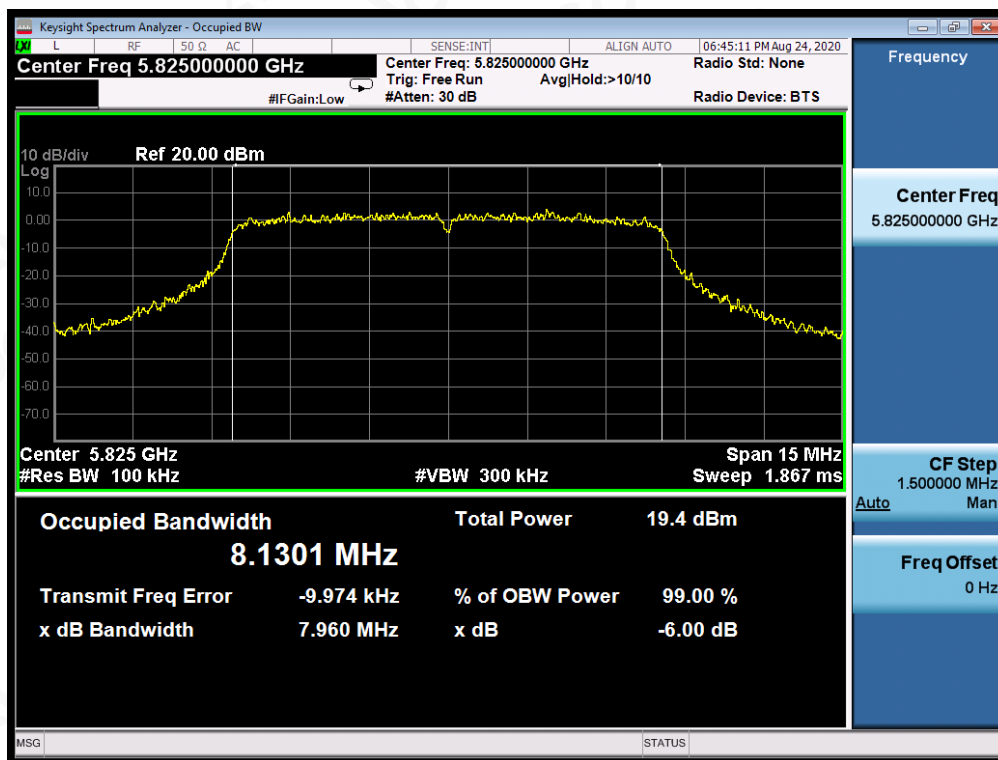


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TEST PLOT OF BANDWIDTH FOR 5825MHz



OFDM WITH DATA RATE MCS0 TEST RESULT-bandwidth 10 MHz

TEST PLOT OF BANDWIDTH FOR 5745MHz



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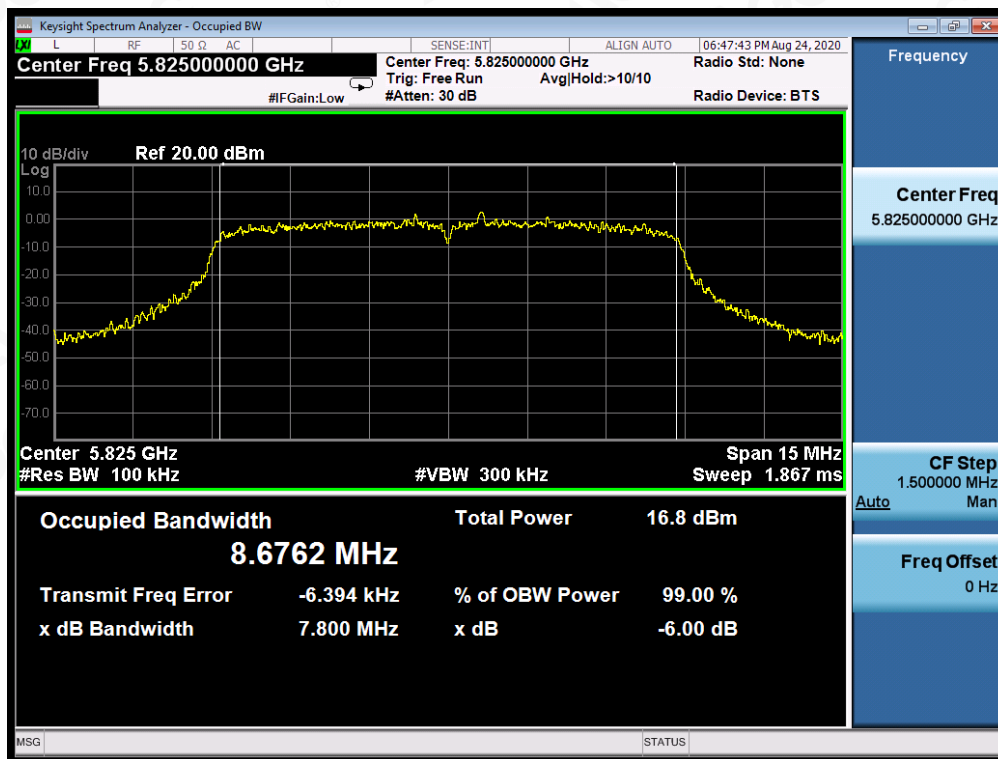
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TEST PLOT OF BANDWIDTH FOR 5785MHz



TEST PLOT OF BANDWIDTH FOR 5825MHz



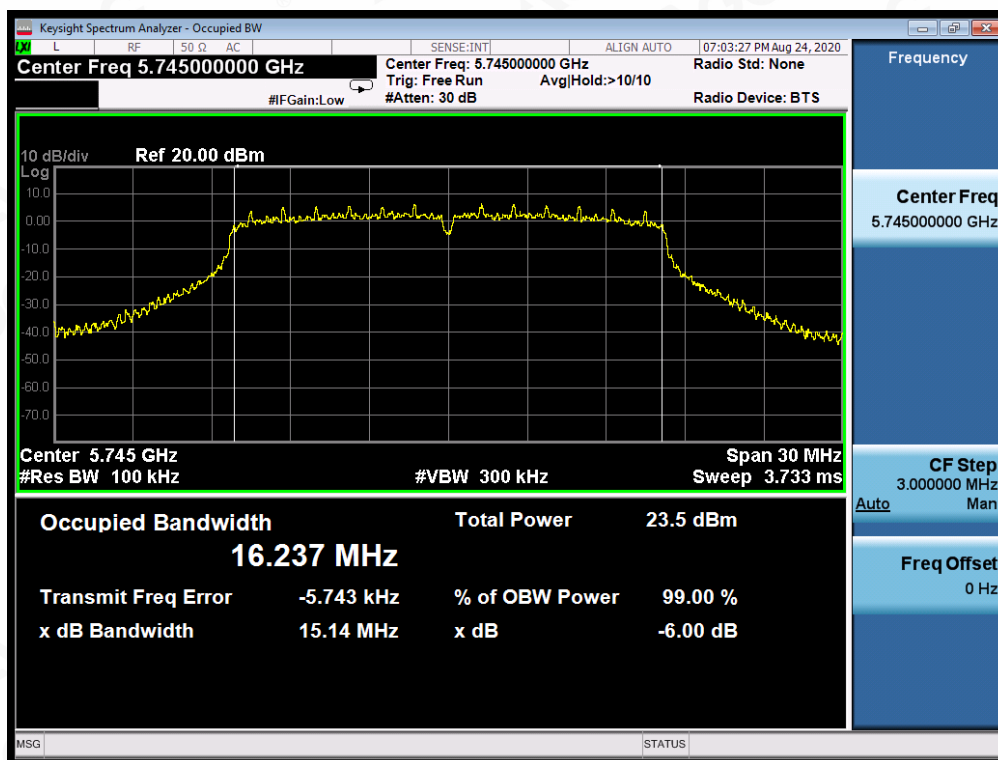
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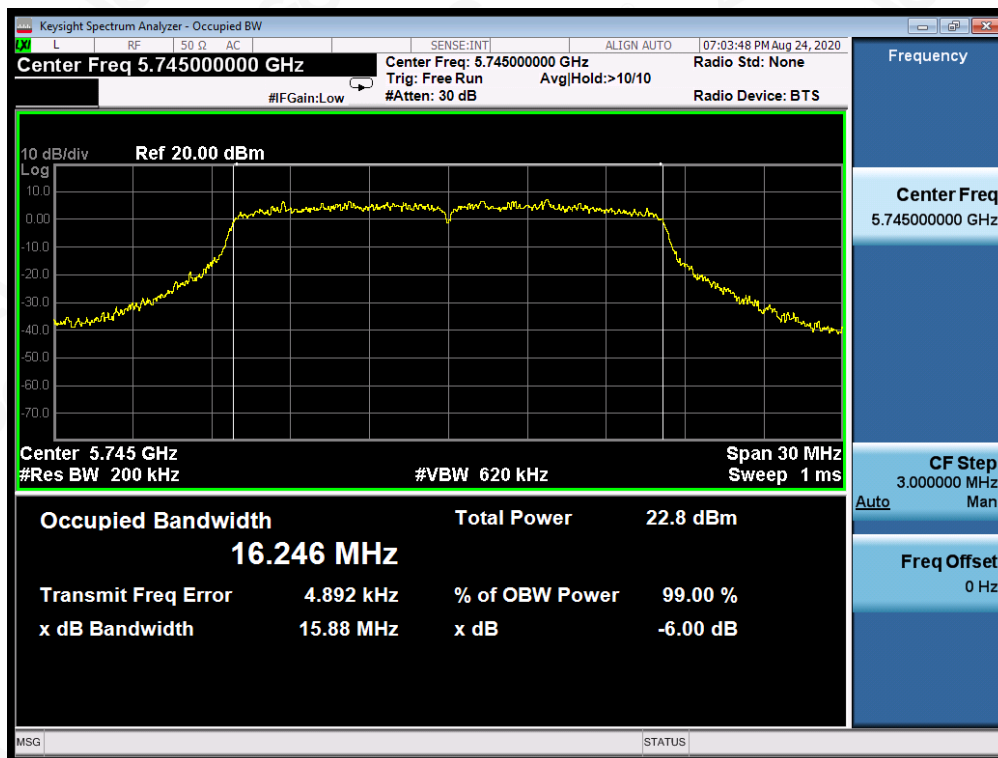


802.11a20 TEST RESULT-bandwidth 20 MHz

TEST PLOT OF BANDWIDTH FOR 5745MHz (-6dB BANDWIDTH)



TEST PLOT OF BANDWIDTH FOR 5745MHz (99% BANDWIDTH)



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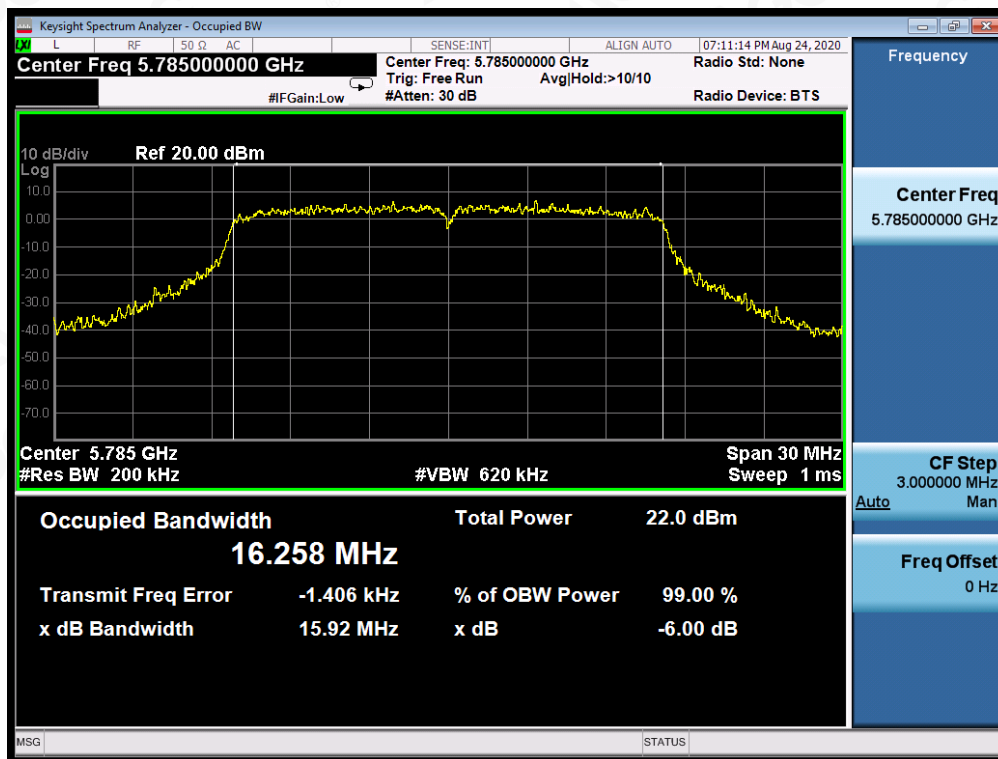
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TEST PLOT OF BANDWIDTH FOR 5785MHz (-6dB BANDWIDTH)



TEST PLOT OF BANDWIDTH FOR 5785MHz (99% BANDWIDTH)

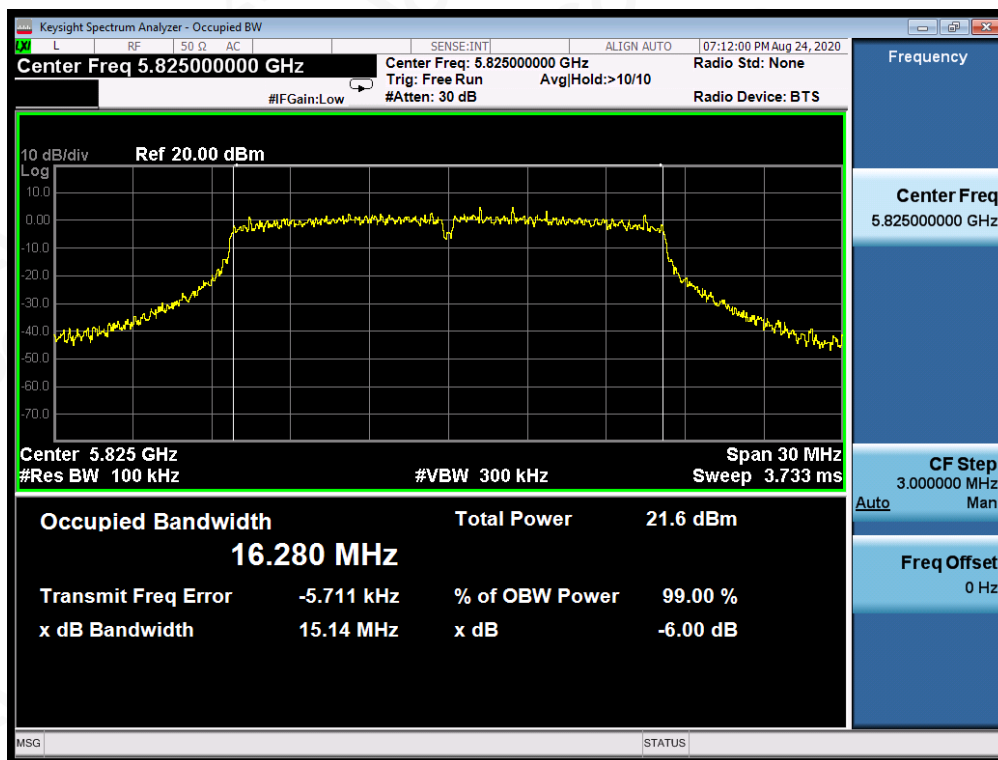


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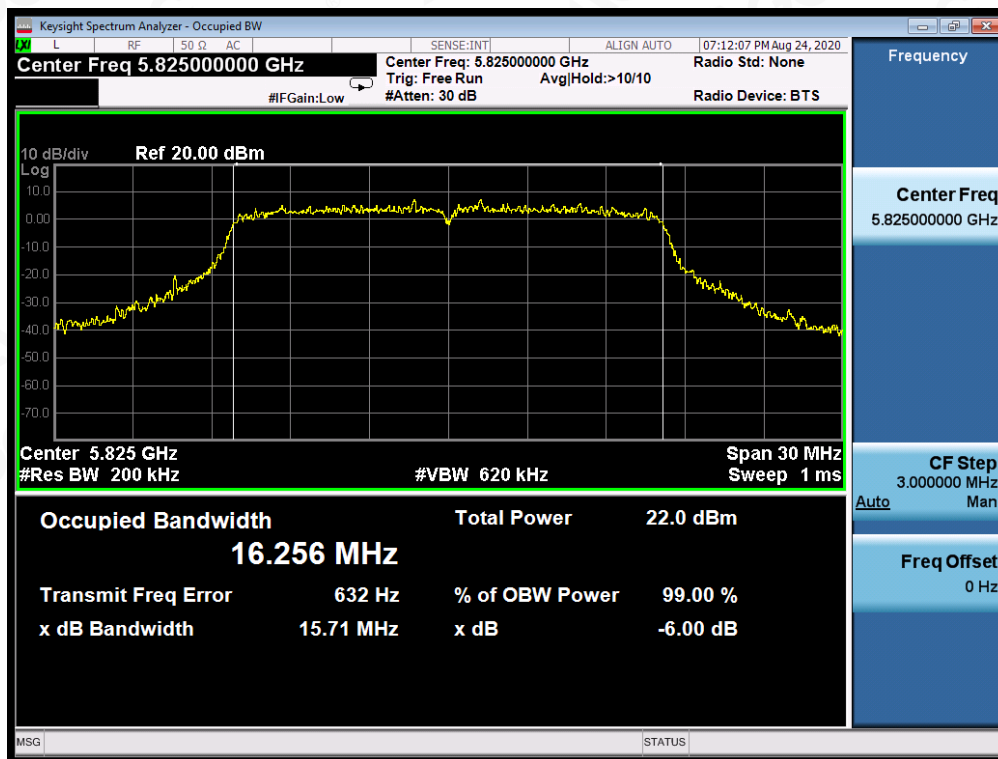
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TEST PLOT OF BANDWIDTH FOR 5825MHz (-6dB BANDWIDTH)



TEST PLOT OF BANDWIDTH FOR 5825MHz (99% BANDWIDTH)



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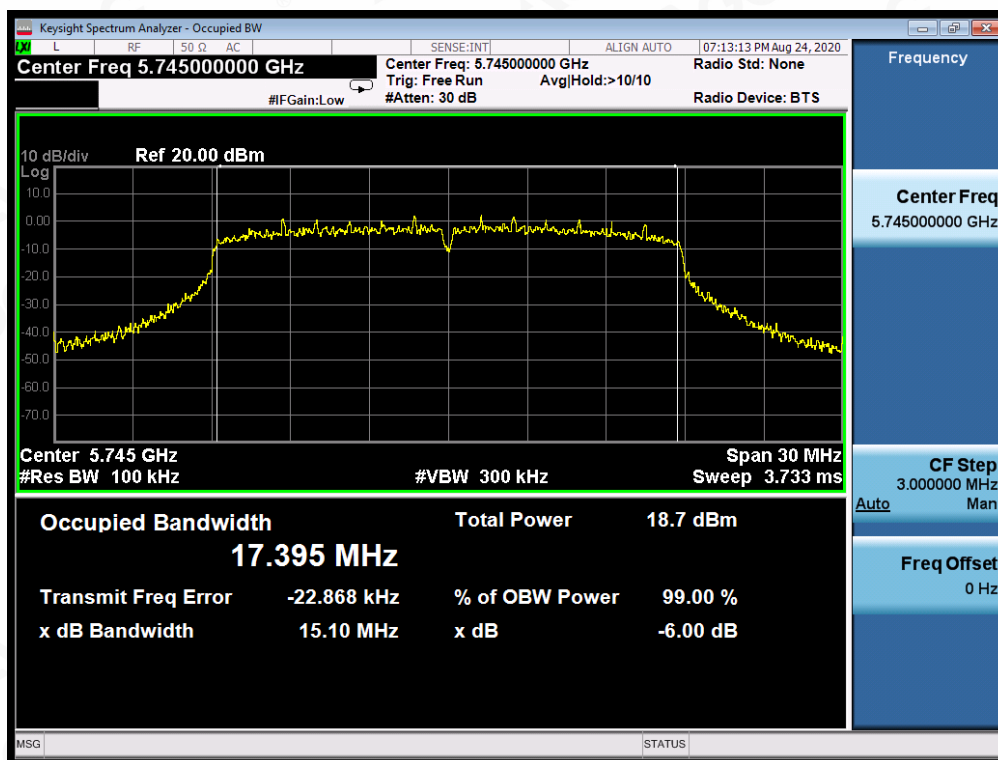
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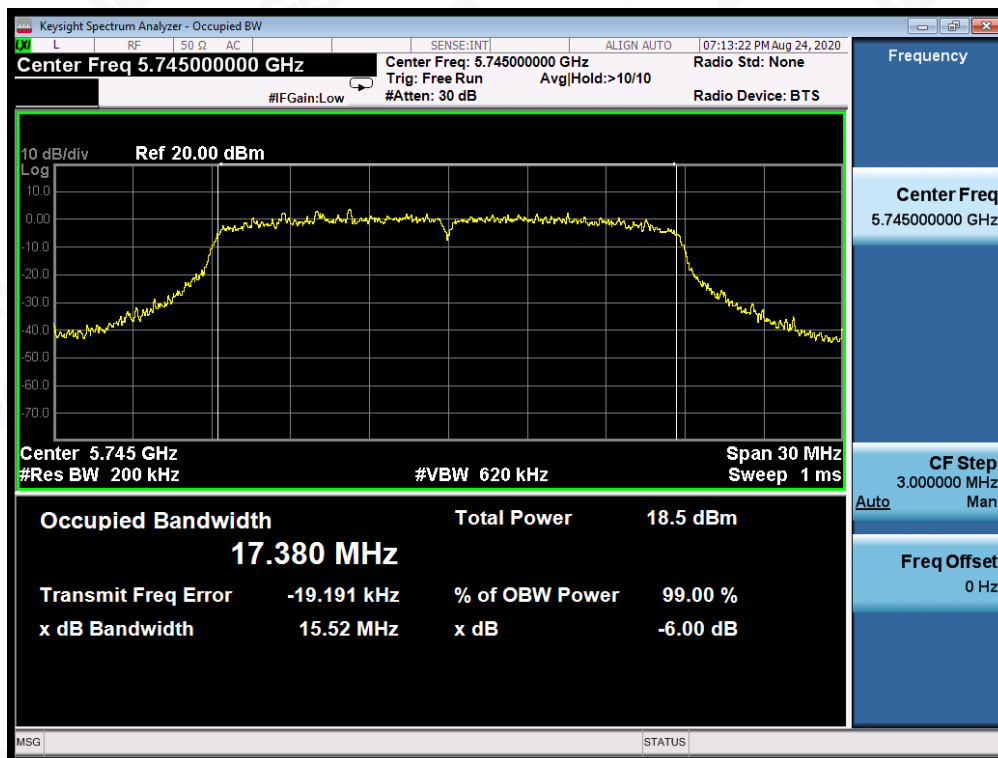


802.11n20 TEST RESULT-bandwidth 20 MHz

TEST PLOT OF BANDWIDTH FOR 5745MHz (-6dB BANDWIDTH)



TEST PLOT OF BANDWIDTH FOR 5745MHz (99% BANDWIDTH)

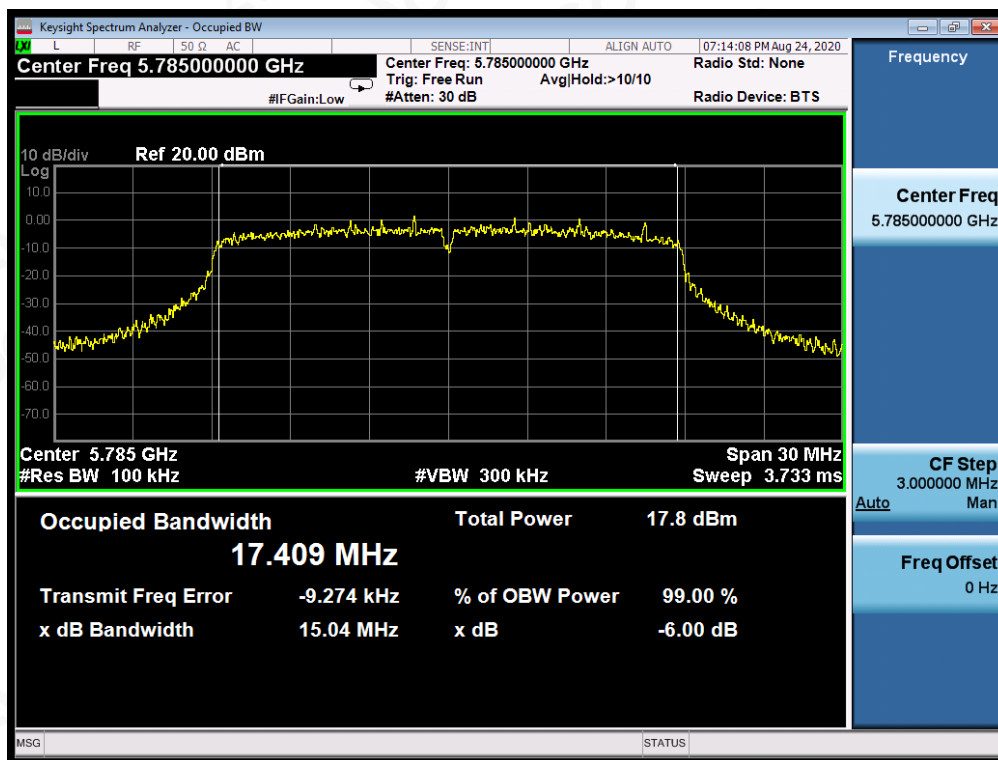


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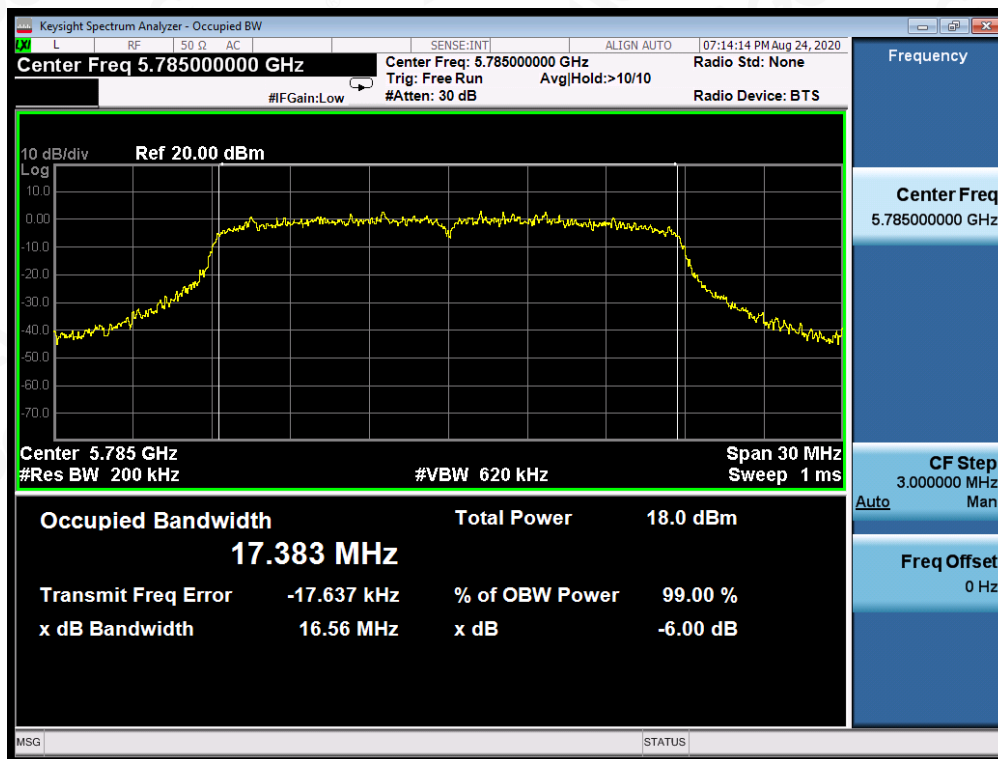
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TEST PLOT OF BANDWIDTH FOR 5785MHz (-6dB BANDWIDTH)



TEST PLOT OF BANDWIDTH FOR 5785MHz (99% BANDWIDTH)

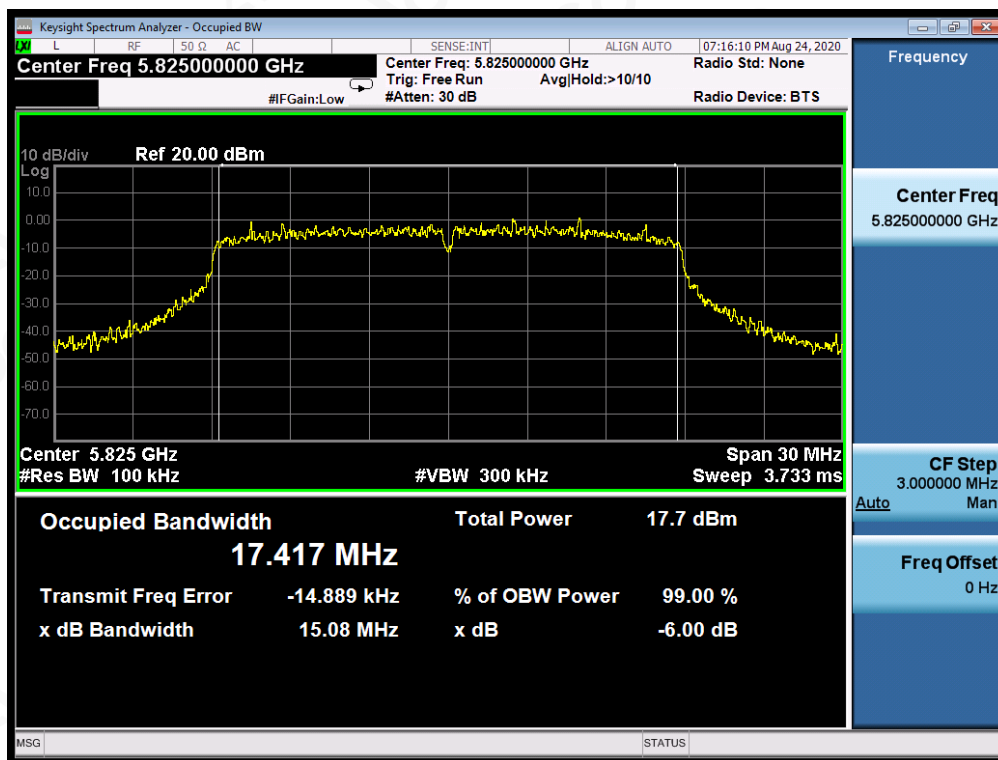


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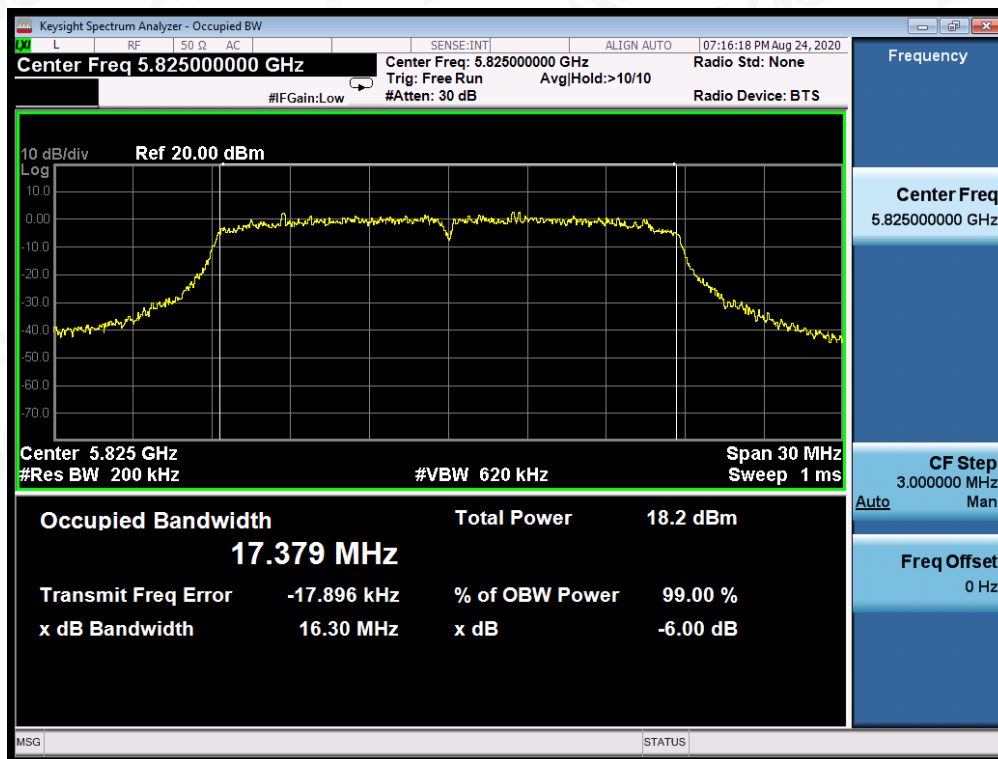
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TEST PLOT OF BANDWIDTH FOR 5825MHz (-6dB BANDWIDTH)



TEST PLOT OF BANDWIDTH FOR 5825MHz (99% BANDWIDTH)



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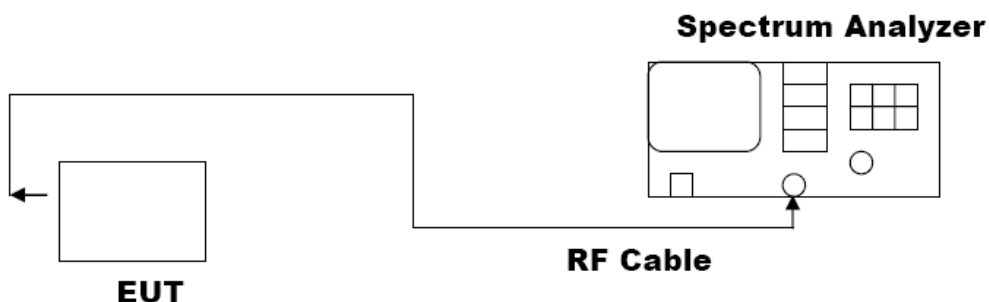
9. EMISSION BANDWIDTH

9.1. MEASUREMENT PROCEDURE

- Set RBW = approximately 1% of the emission bandwidth.
 - Set the VBW > RBW.
 - Detector = Peak.
 - Trace mode = max hold.
 - 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.

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



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9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE 6 MODULATION-bandwidth 10 MHz				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5180MHz	9.484	8.118	PASS
	5200MHz	9.502	8.130	PASS
	5240MHz	9.348	8.130	PASS

LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE MCS0 MODULATION-bandwidth 10 MHz				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5180MHz	9.797	8.697	PASS
	5200MHz	9.759	8.692	PASS
	5240MHz	9.763	8.683	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION-bandwidth 20 MHz				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5180MHz	19.09	16.255	PASS
	5200MHz	18.57	16.246	PASS
	5240MHz	18.92	16.260	PASS

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LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION-bandwidth 20 MHz				
Applicable Limits	Applicable Limits			
	Test Data (MHz)			Criteria
	Frequency (MHz)	-26dB Bandwidth	99.00% Occupied Bandwidth	
Within the Band	5180MHz	19.70	17.387	PASS
	5200MHz	19.56	17.385	PASS
	5240MHz	19.77	17.393	PASS

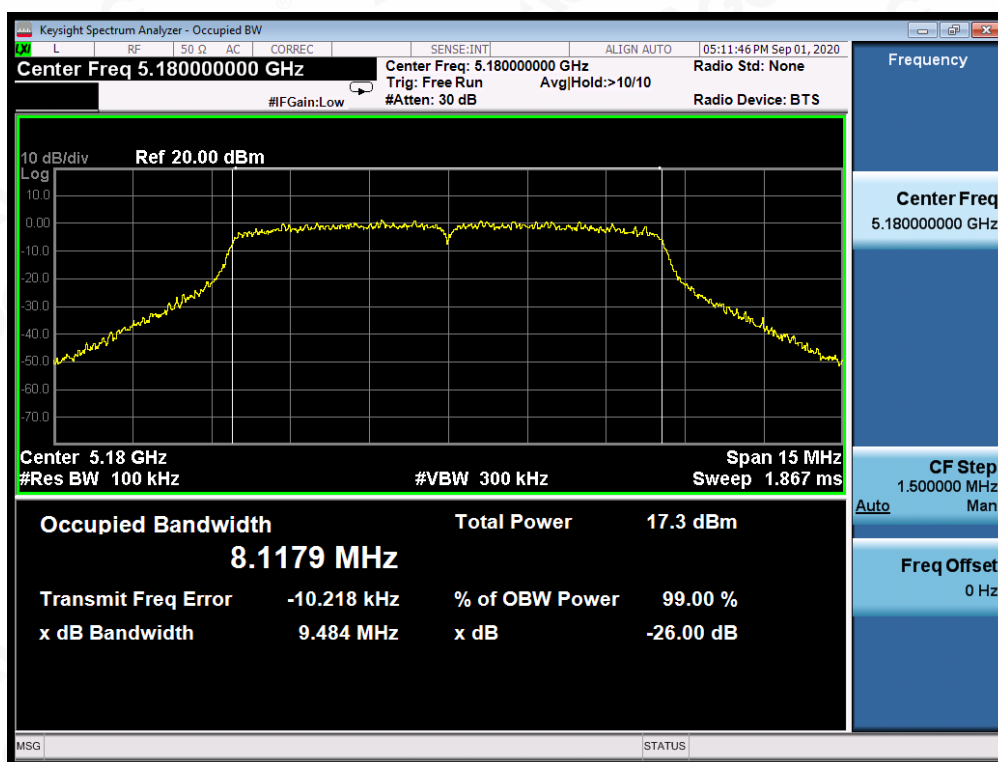
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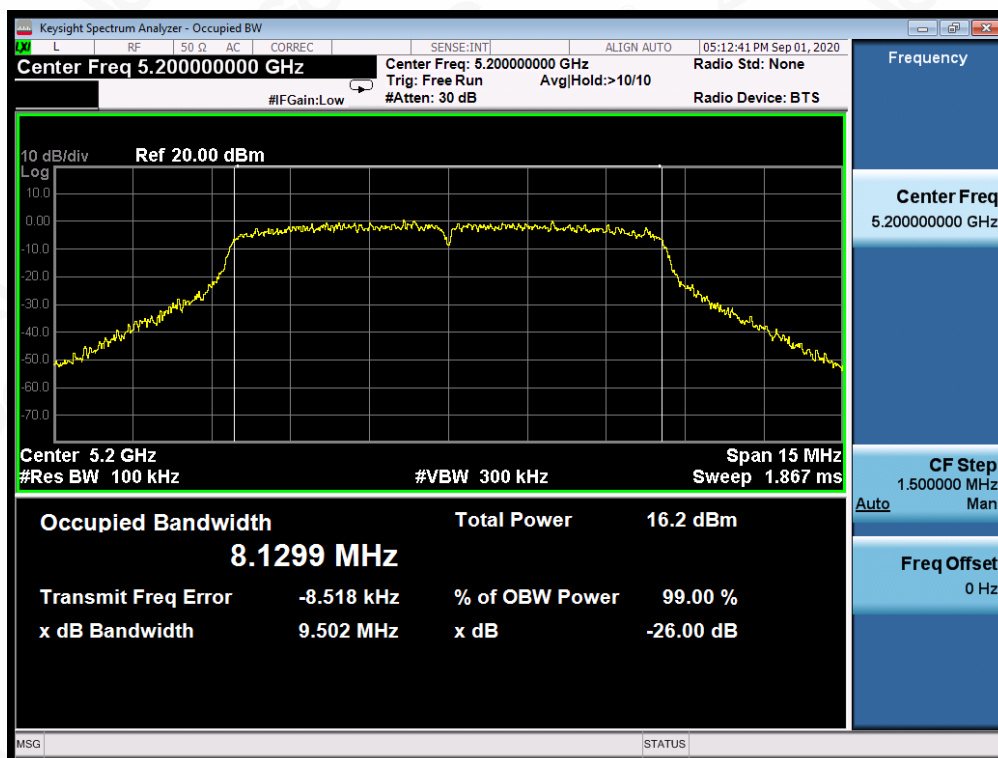


OFDM WITH DATA RATE 6 TEST RESULT-bandwidth 10 MHz

TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz

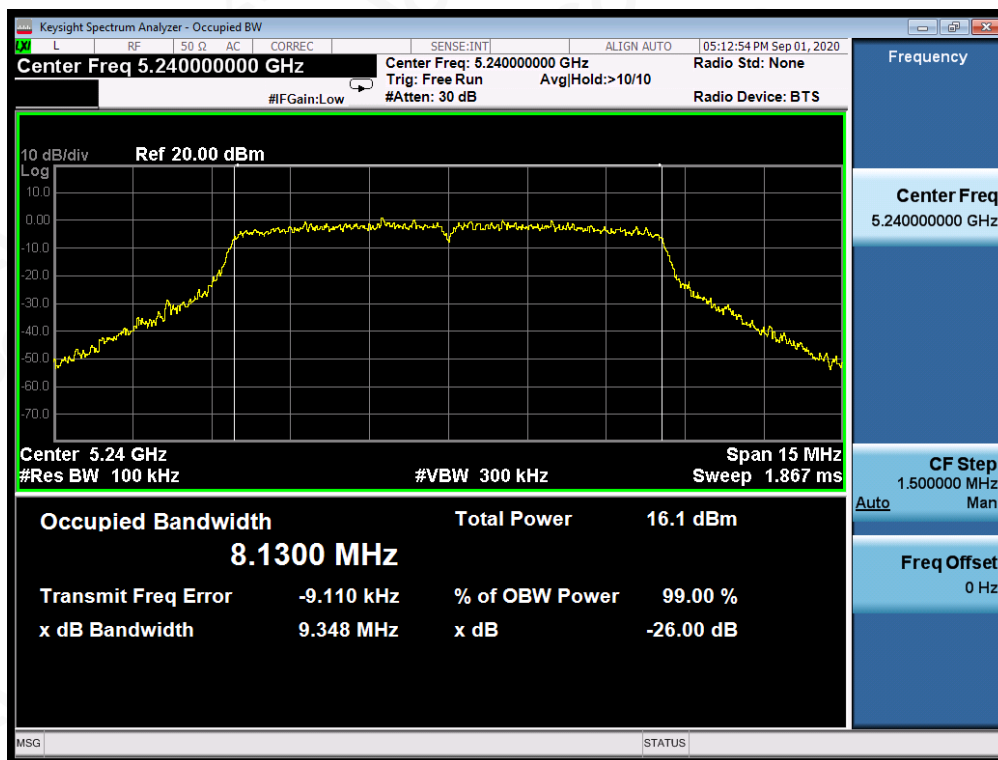


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TEST PLOT OF BANDWIDTH FOR 5240MHz



OFDM WITH DATA RATE MCS0 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



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TEST PLOT OF BANDWIDTH FOR 5200MHz



TEST PLOT OF BANDWIDTH FOR 5240MHz



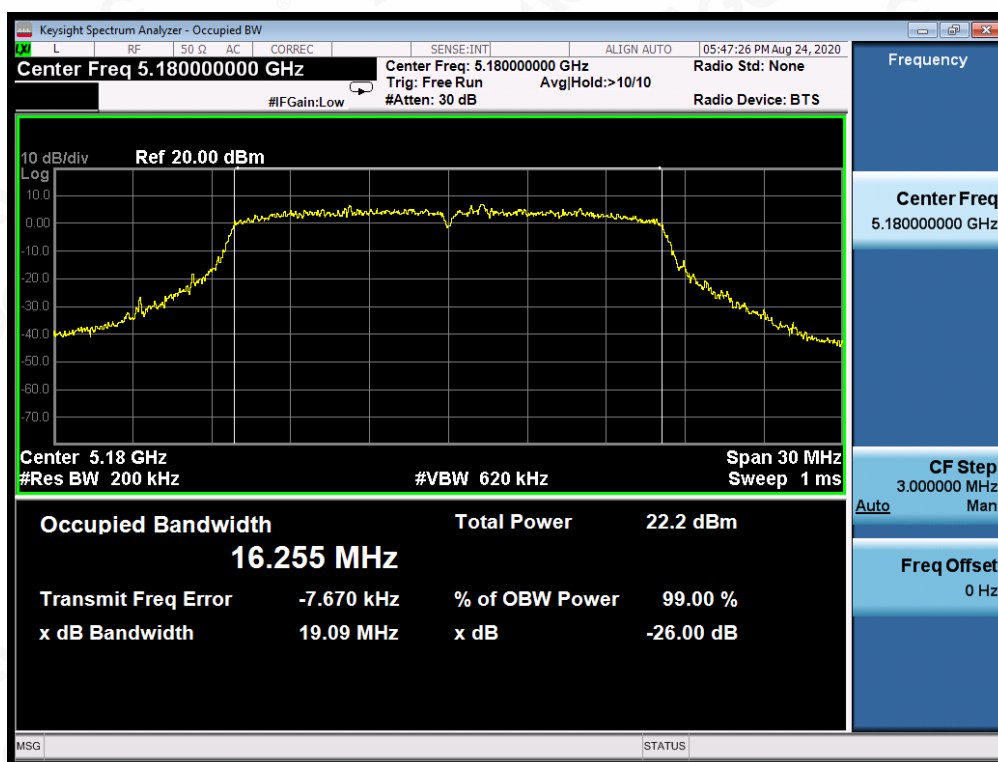
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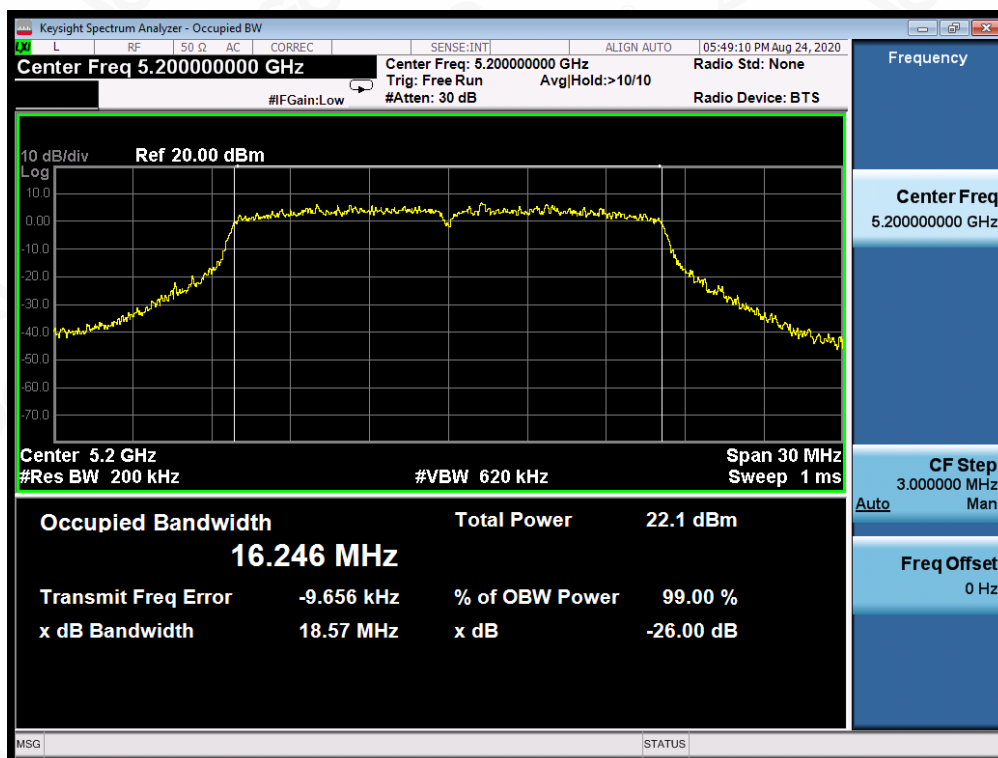


802.11a20 TEST RESULT-bandwidth 20 MHz

TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz

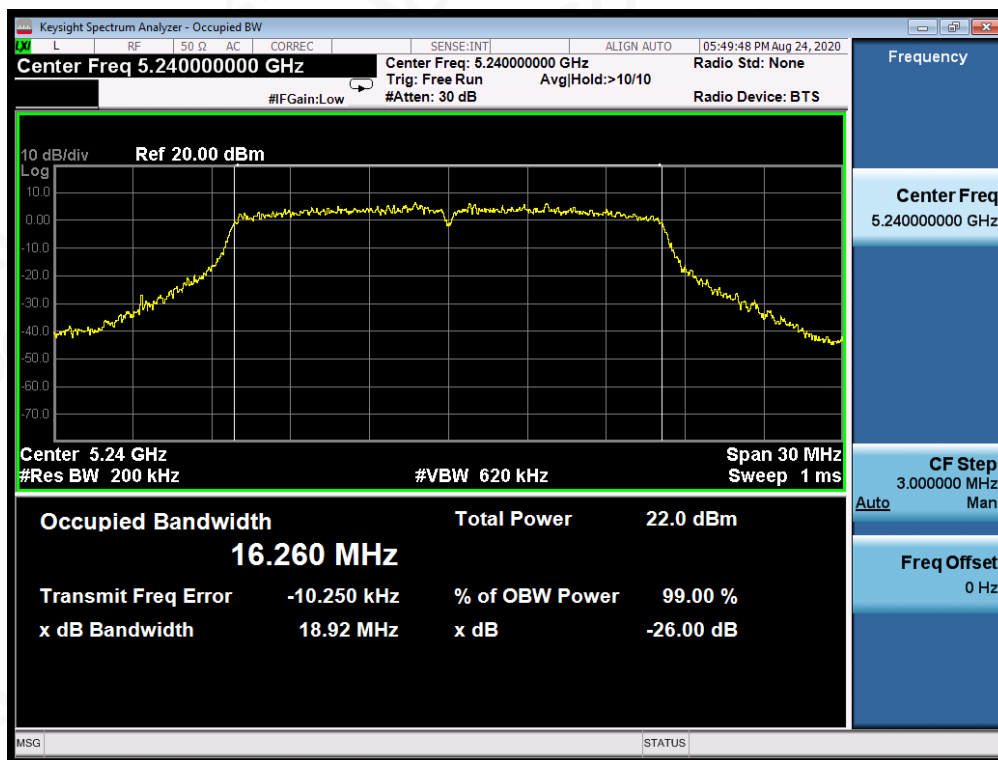


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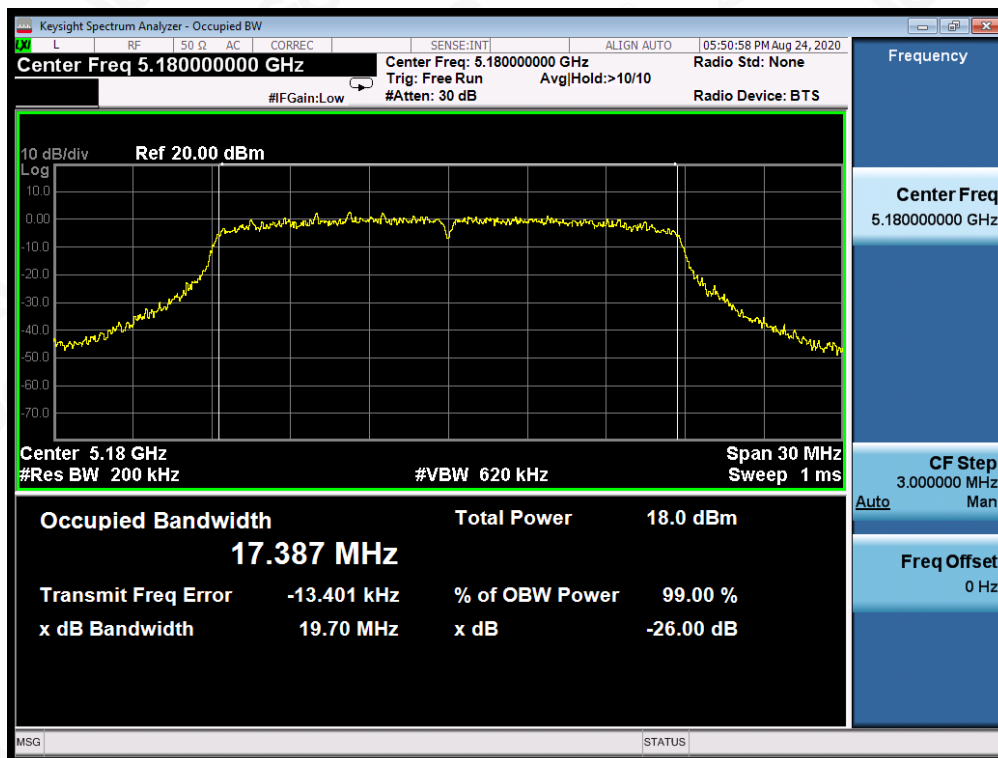


TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



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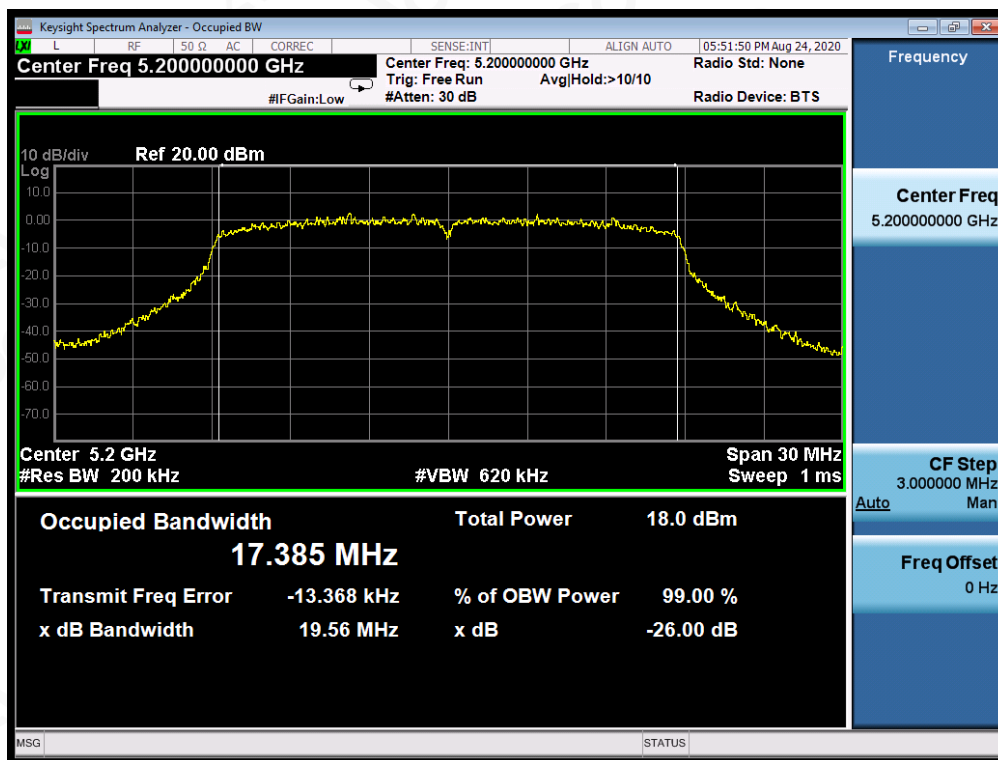
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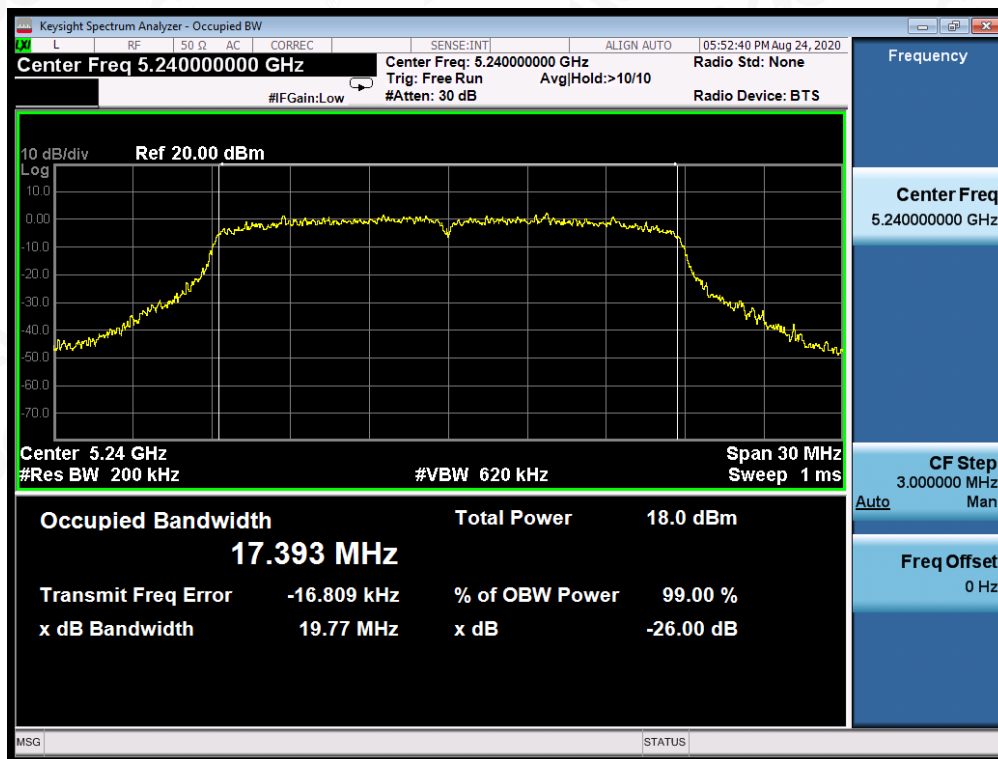
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TEST PLOT OF BANDWIDTH FOR 5200MHz



TEST PLOT OF BANDWIDTH FOR 5240MHz



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10. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

10.1 MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

10.2 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

Refer To Section 8.2.

10.3 MEASUREMENT EQUIPMENT USED

Refer To Section 6.

10.4 LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE 6 MODULATION -bandwidth 10 MHz							
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Chain 3 (dBm/MHz)	Power density Chain 4 (dBm/MHz)	Power density Total (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	5.747	6.353	6.361	6.262	N/A	17	Pass
5200	5.200	6.261	6.400	6.424	N/A	17	Pass
5240	6.172	6.357	6.066	6.107	N/A	17	Pass
Frequency (MHz)	Power density Chain 1 (dBm/500k Hz)	Power density Chain 2 (dBm/500k Hz)	Power density Chain 3 (dBm/500k Hz)	Power density Chain 4 (dBm/500k Hz)	Power density Total (dBm/500k Hz)	Applicable Limits (dBm)	Pass or Fail
5745	2.921	2.948	2.733	2.787	N/A	30	Pass
5785	2.977	2.640	2.802	2.757	N/A	30	Pass
5825	2.725	2.980	2.597	2.723	N/A	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR OFDM WITH DATA RATE MCS0 MODULATION -bandwidth 10 MHz						
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Chain 3 (dBm/MHz)	Power density Chain 4 (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	2.964	2.962	3.203	3.074	17	Pass
5200	2.867	2.988	3.116	3.023	17	Pass
5240	2.827	3.047	2.764	2.654	17	Pass
Frequency (MHz)	Power density Total 1+2 (dBm/MHz)	Power density Total 3+4 (dBm/MHz)	Power density Total 1+3 (dBm/MHz)	Power density Total 2+4 (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	5.97	6.15	6.10	6.03	17	Pass
5200	5.94	6.08	6.00	6.02	17	Pass
5240	5.95	5.72	5.81	5.87	17	Pass
Frequency (MHz)	Power density Chain 1 (dBm/500kHz)	Power density Chain 2 (dBm/500kHz)	Power density Chain 3 (dBm/500kHz)	Power density Chain 4 (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	0.621	0.560	0.579	0.195	30	Pass
5785	0.038	0.395	0.362	0.162	30	Pass
5825	0.585	0.229	0.350	0.471	30	Pass
Frequency (MHz)	Power density Total 1+2 (dBm/500kHz)	Power density Total 3+4 (dBm/500kHz)	Power density Total 1+3 (dBm/500kHz)	Power density Total 2+4 (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	3.60	3.40	3.61	3.39	30	Pass
5785	3.23	3.27	3.21	3.29	30	Pass
5825	3.42	3.42	3.48	3.36	30	Pass

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LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION -bandwidth 20 MHz							
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Chain 3 (dBm/MHz)	Power density Chain 4 (dBm/MHz)	Power density Total (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	5.335	5.618	5.599	5.582	N/A	17	Pass
5200	5.410	5.374	5.580	5.562	N/A	17	Pass
5240	5.451	5.411	5.246	5.413	N/A	17	Pass
Frequency (MHz)	Power density Chain 1 (dBm/500k Hz)	Power density Chain 2 (dBm/500k Hz)	Power density Chain 3 (dBm/500k Hz)	Power density Chain 4 (dBm/500k Hz)	Power density Total (dBm/500k Hz)	Applicable Limits (dBm)	Pass or Fail
5745	2.755	2.866	2.922	2.955	N/A	30	Pass
5785	2.800	2.522	2.698	2.772	N/A	30	Pass
5825	2.863	2.587	2.519	2.492	N/A	30	Pass

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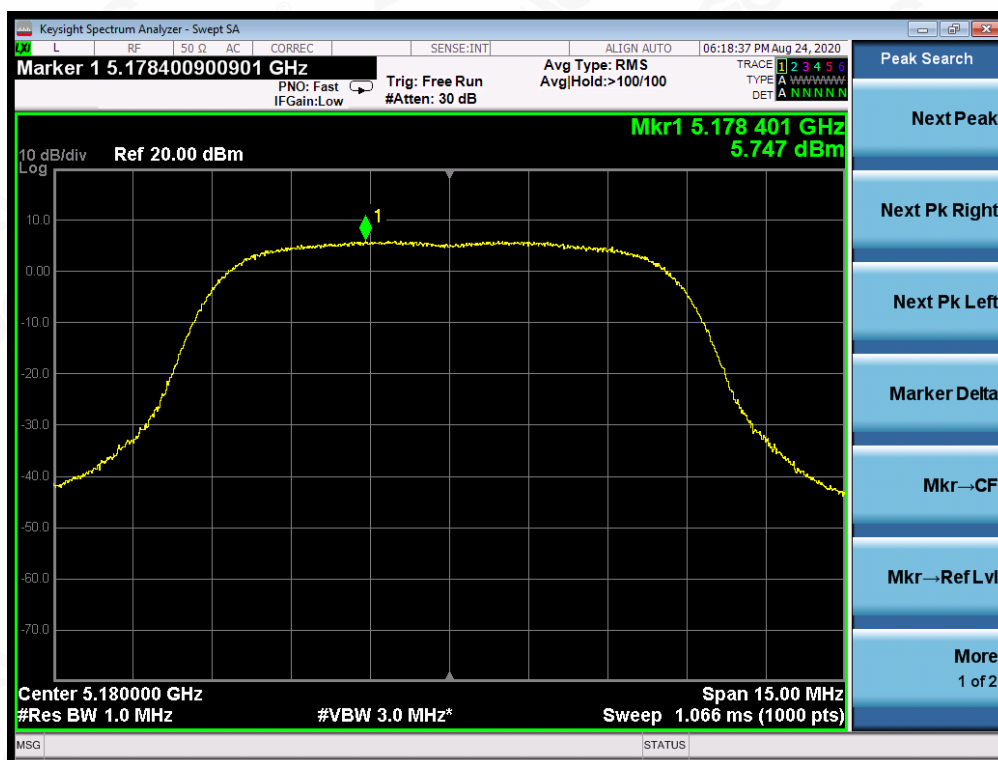


LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION -bandwidth 20 MHz						
Frequency (MHz)	Power density Chain 1 (dBm/MHz)	Power density Chain 2 (dBm/MHz)	Power density Chain 3 (dBm/MHz)	Power density Chain 4 (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	1.316	1.106	1.160	1.136	17	Pass
5200	1.430	1.343	1.151	1.202	17	Pass
5240	1.070	1.051	1.283	0.923	17	Pass
Frequency (MHz)	Power density Total 1+2 (dBm/MHz)	Power density Total 3+4 (dBm/MHz)	Power density Total 1+3 (dBm/MHz)	Power density Total 2+4 (dBm/MHz)	Applicable Limits (dBm)	Pass or Fail
5180	4.22	4.16	4.25	4.13	17	Pass
5200	4.40	4.19	4.30	4.28	17	Pass
5240	4.07	4.12	4.19	4.00	17	Pass
Frequency (MHz)	Power density Chain 1 (dBm/500kHz)	Power density Chain 2 (dBm/500kHz)	Power density Chain 3 (dBm/500kHz)	Power density Chain 4 (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	-1.472	-1.246	-1.320	-1.163	30	Pass
5785	-1.748	-1.561	-1.527	-1.381	30	Pass
5825	-1.586	-1.549	-1.283	-1.579	30	Pass
Frequency (MHz)	Power density Total 1+2 (dBm/500kHz)	Power density Total 3+4 (dBm/500kHz)	Power density Total 1+3 (dBm/500kHz)	Power density Total 2+4 (dBm/500kHz)	Applicable Limits (dBm)	Pass or Fail
5745	1.65	1.77	1.61	1.81	30	Pass
5785	1.36	1.56	1.37	1.54	30	Pass
5825	1.44	1.58	1.58	1.45	30	Pass

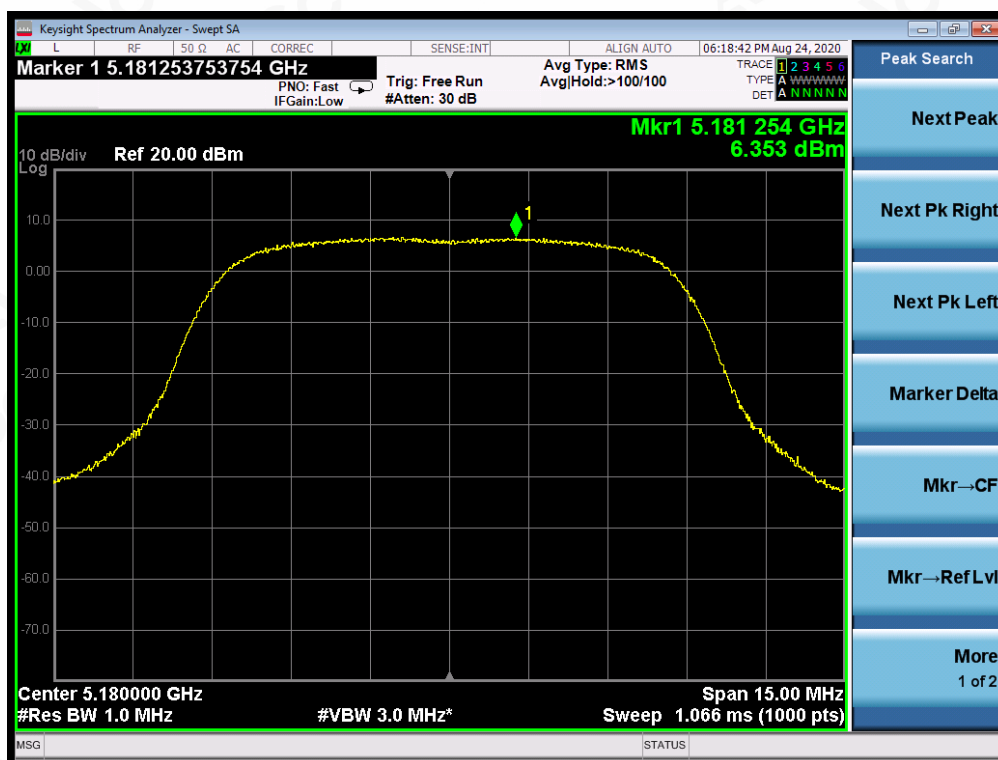
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OFDM WITH DATA RATE 6 TEST RESULT-bandwidth 10 MHz
TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 2



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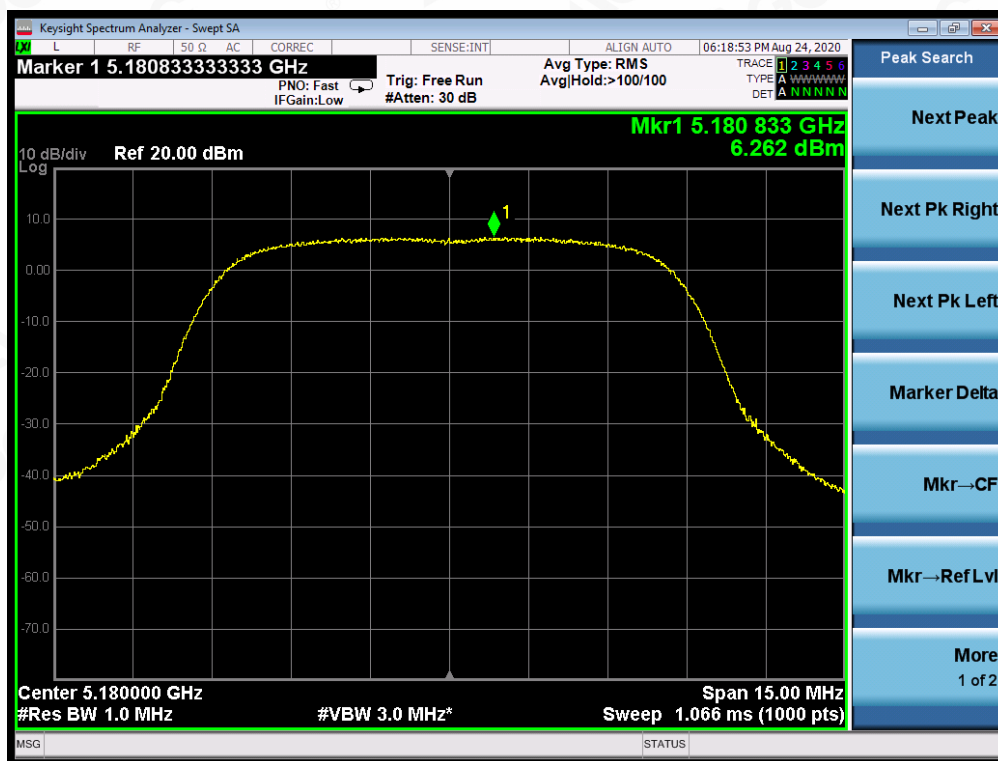
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TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 3



TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz AT CHAIN 4



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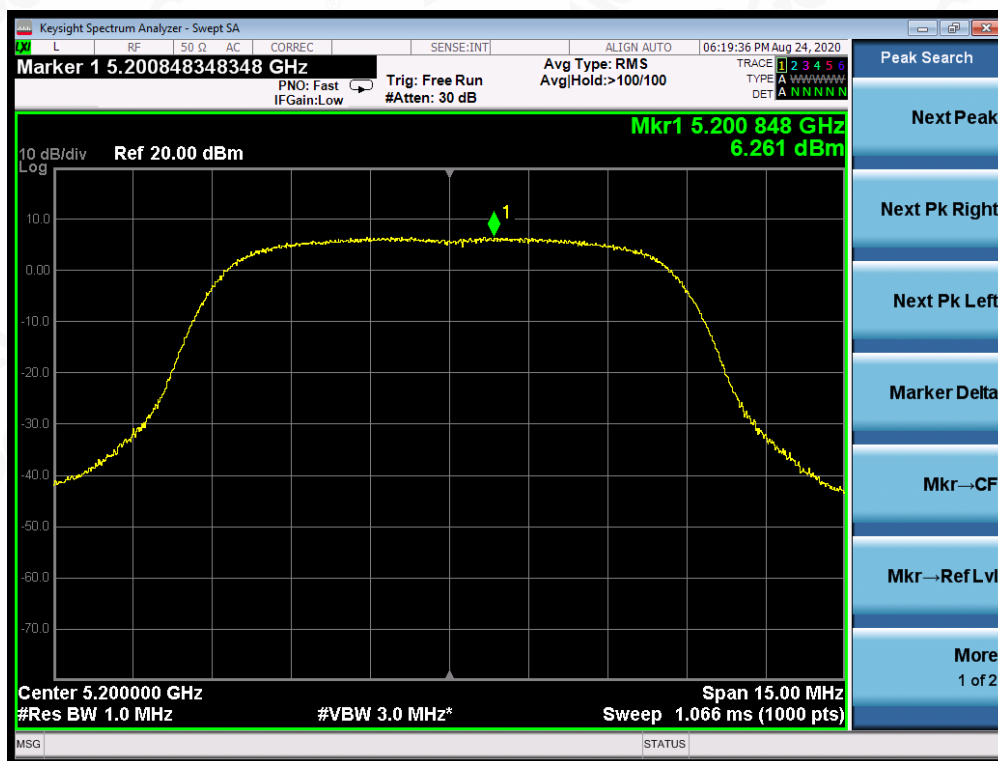
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TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 2



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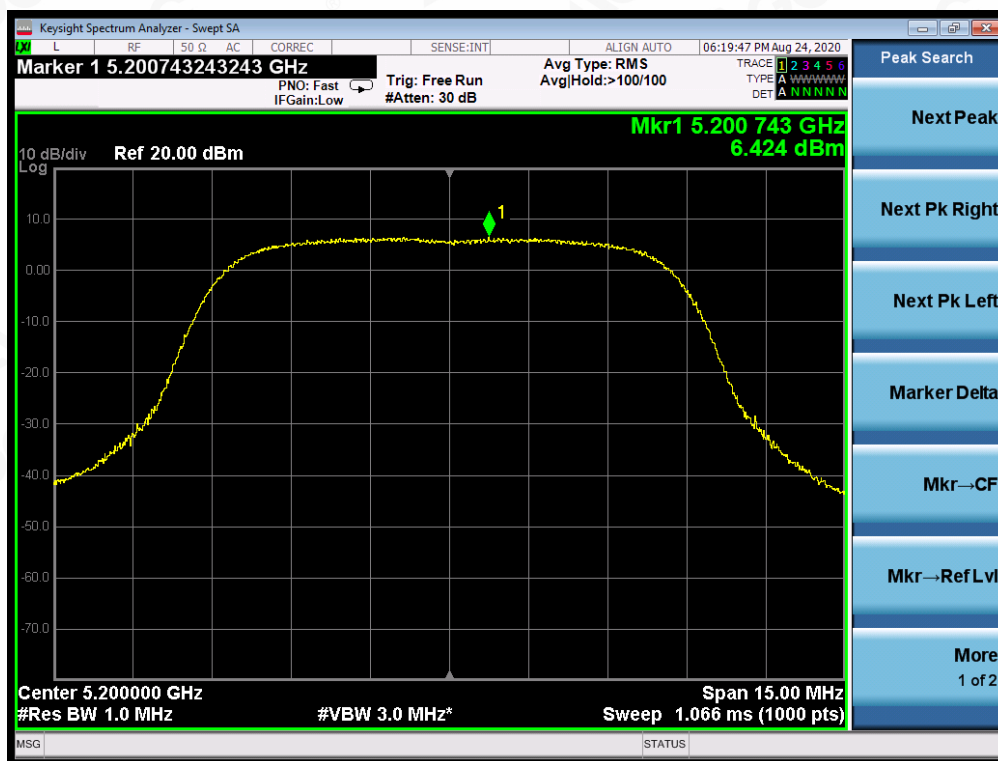
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TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 3



TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz AT CHAIN 4

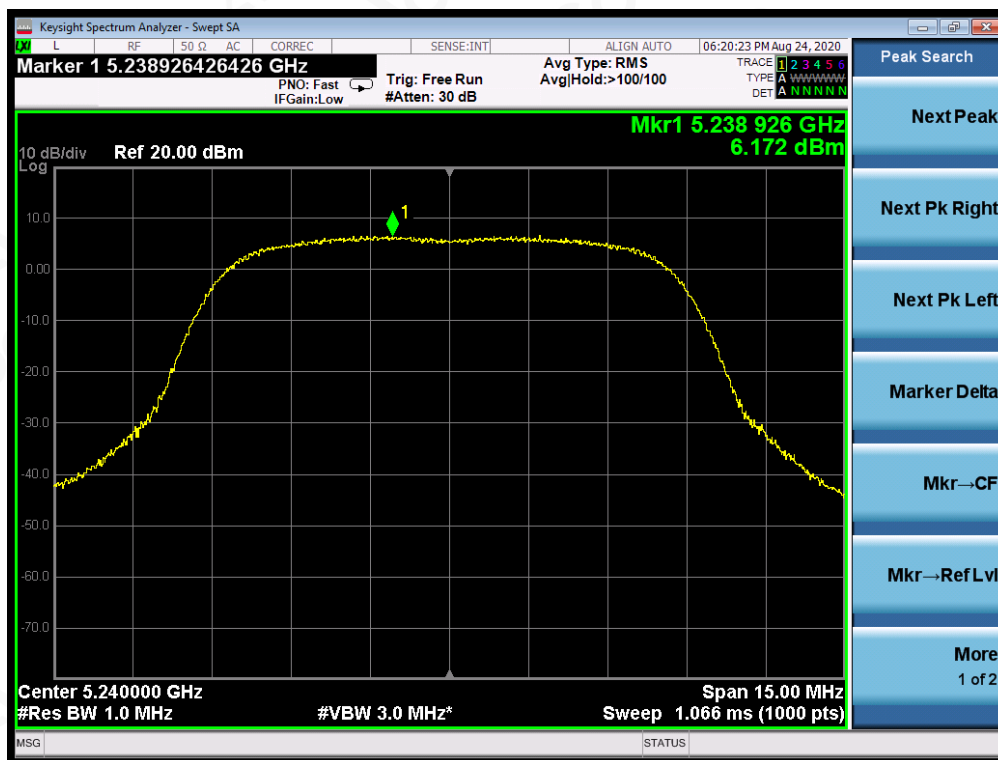


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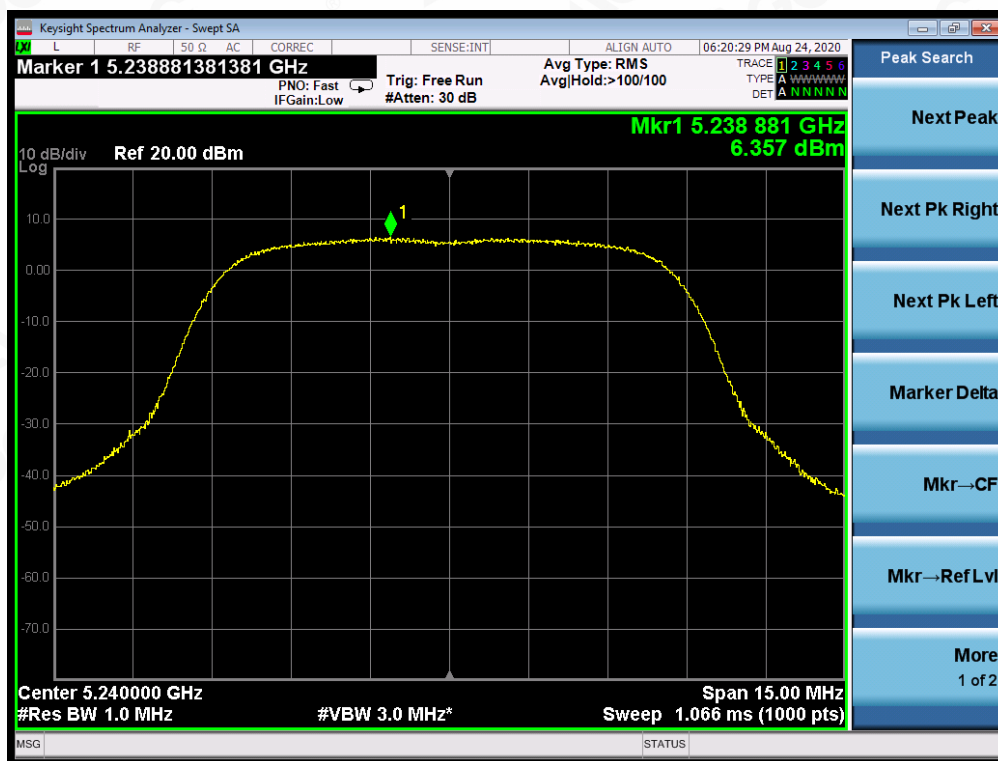
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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 2

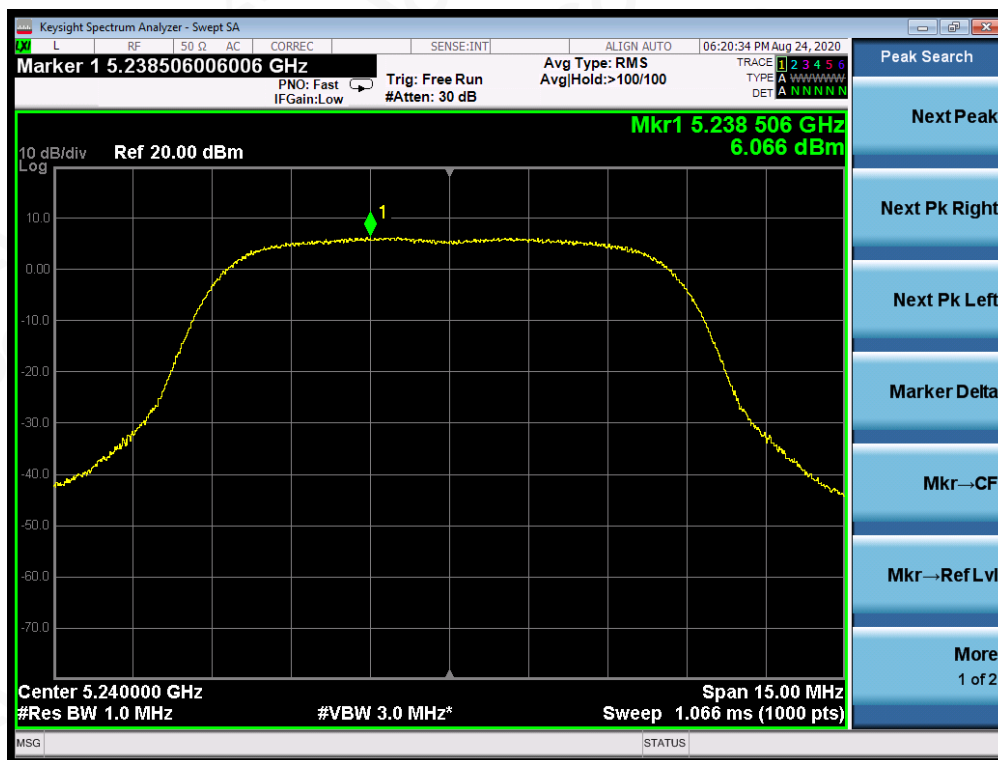


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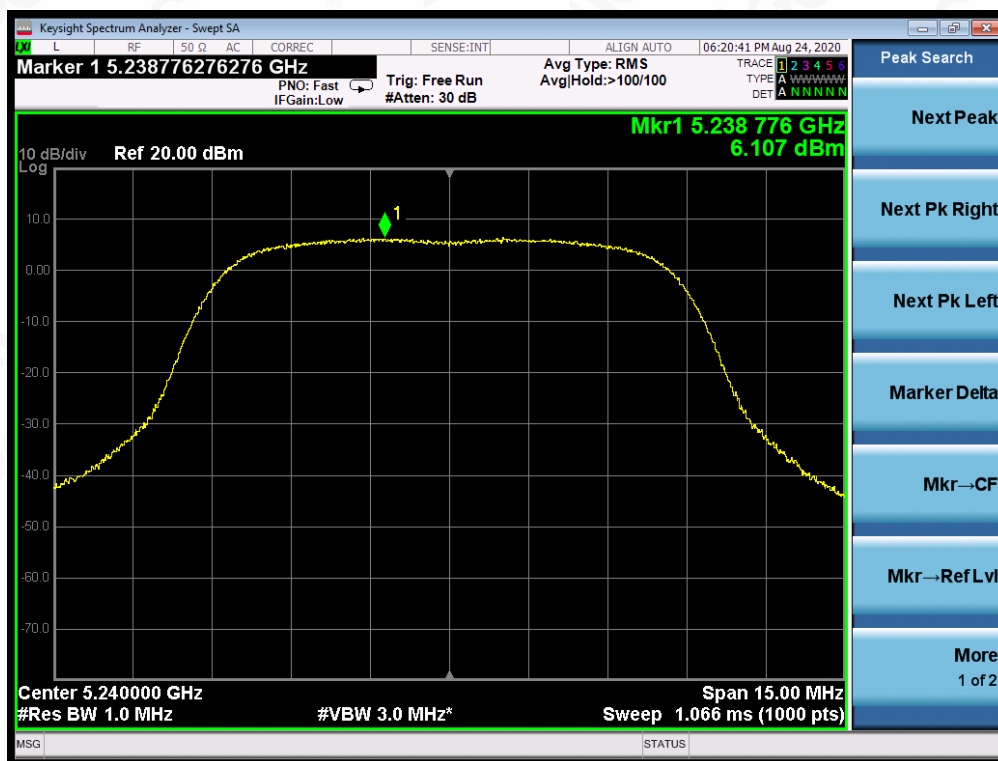
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TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 3



TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz AT CHAIN 4

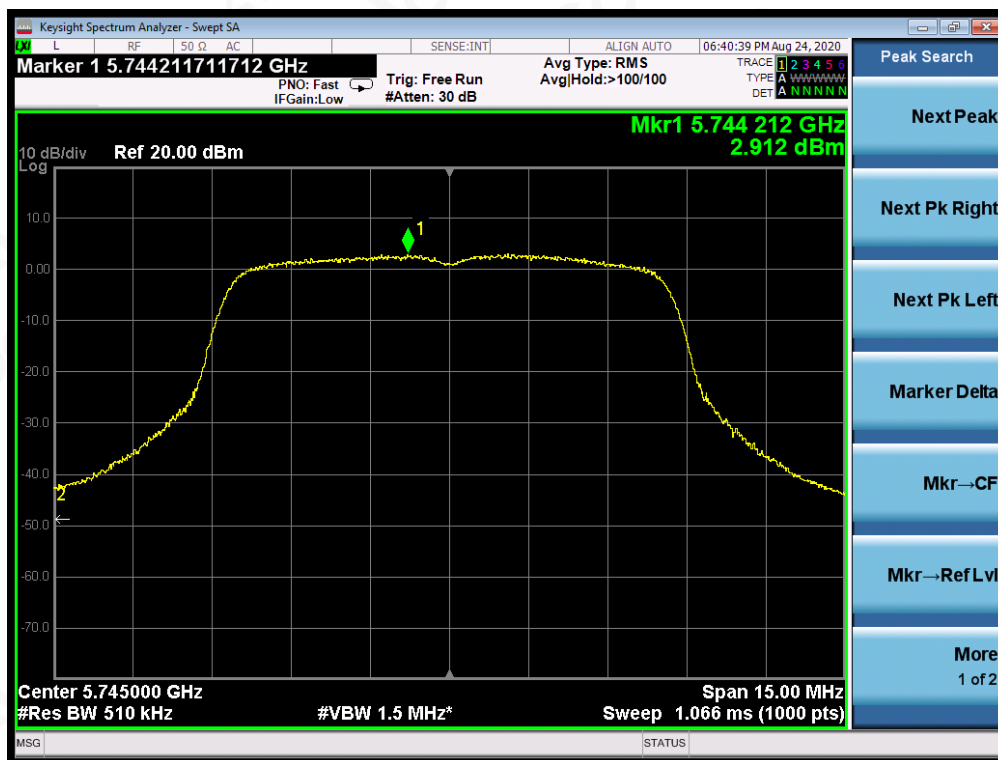


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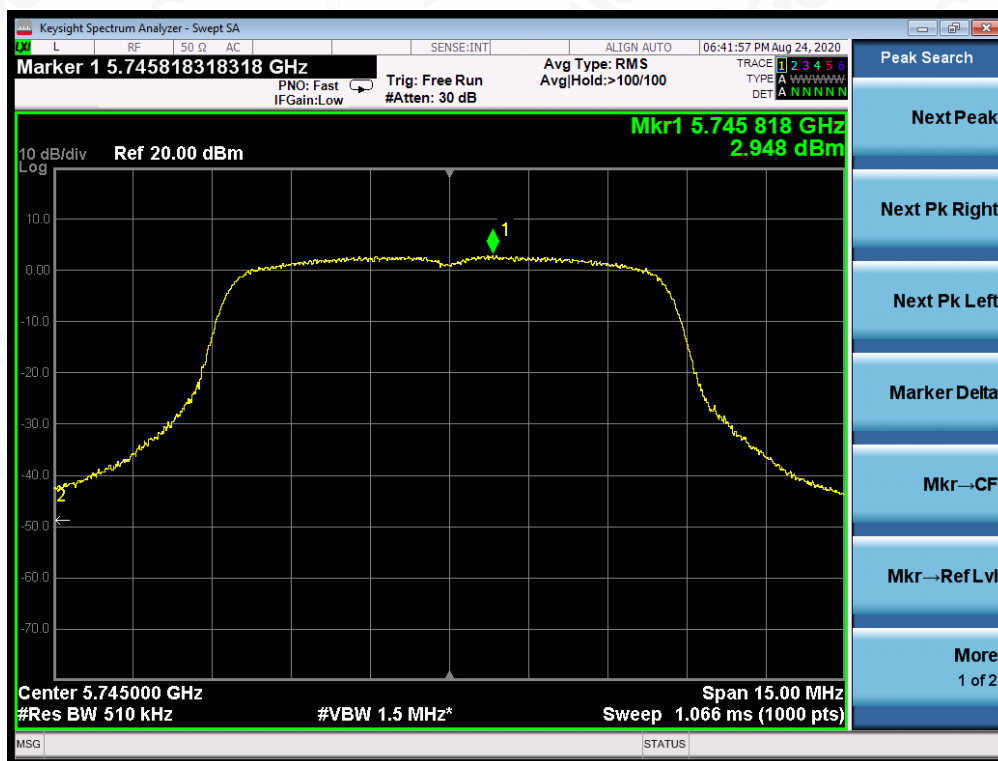
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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 2

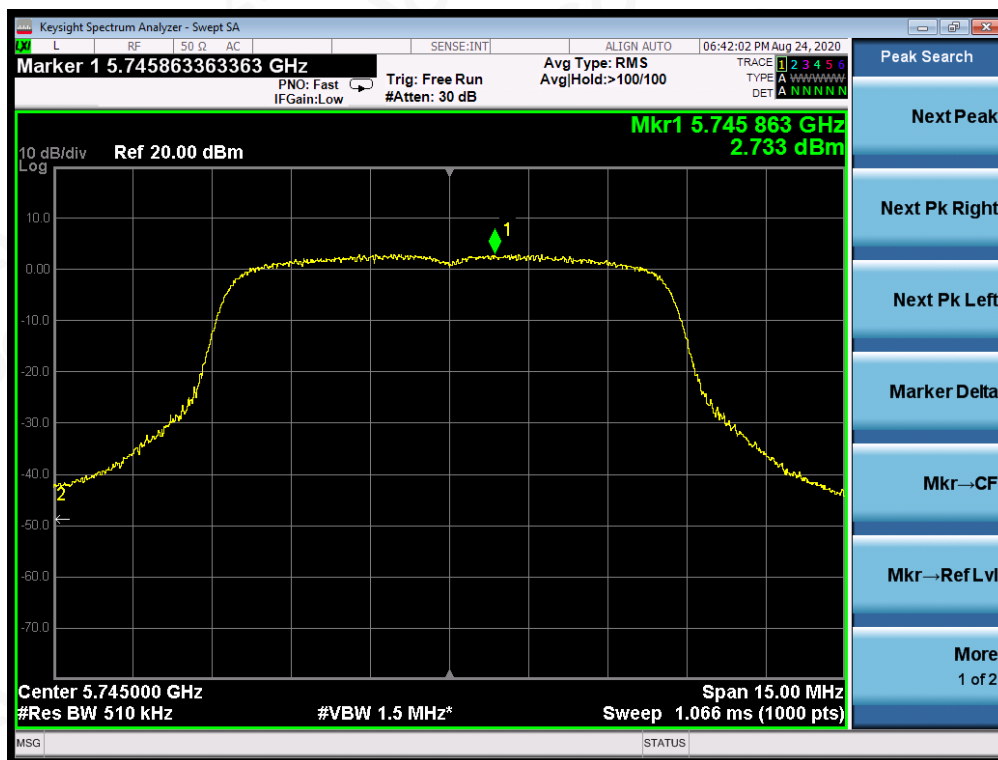


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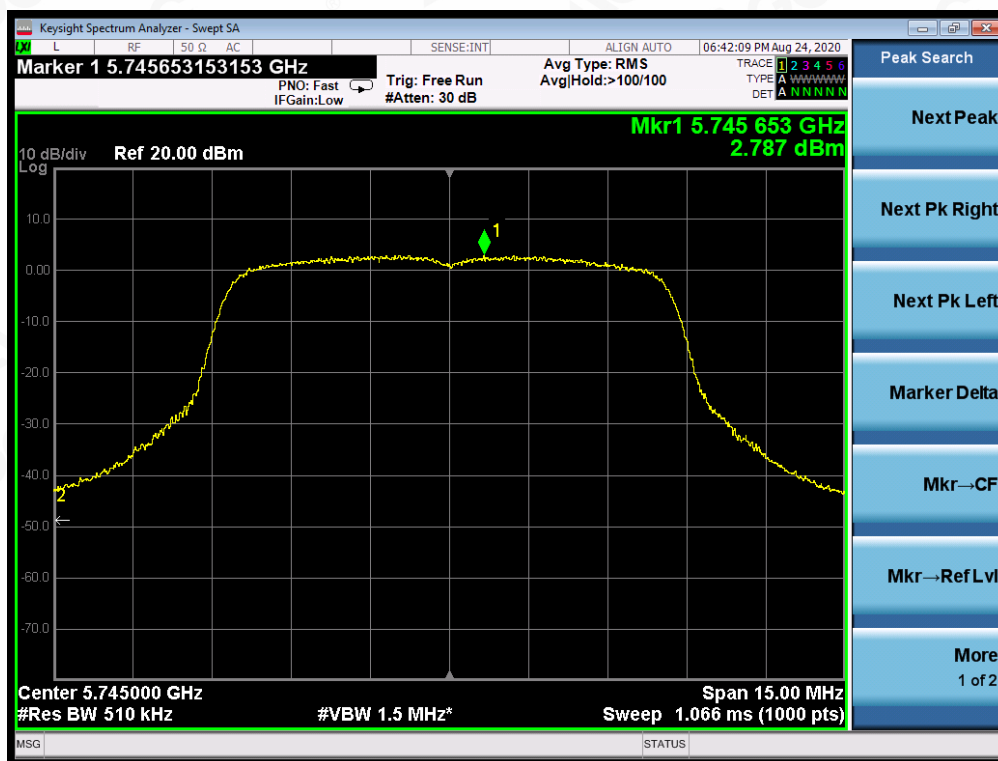
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TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 3



TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz AT CHAIN 4

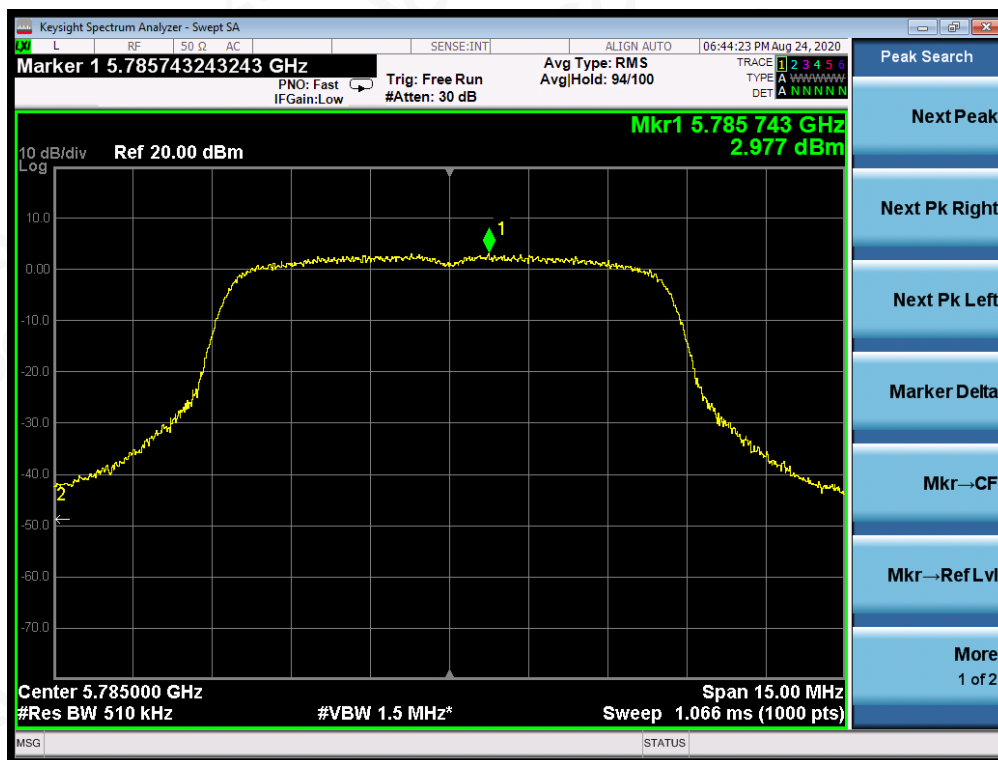


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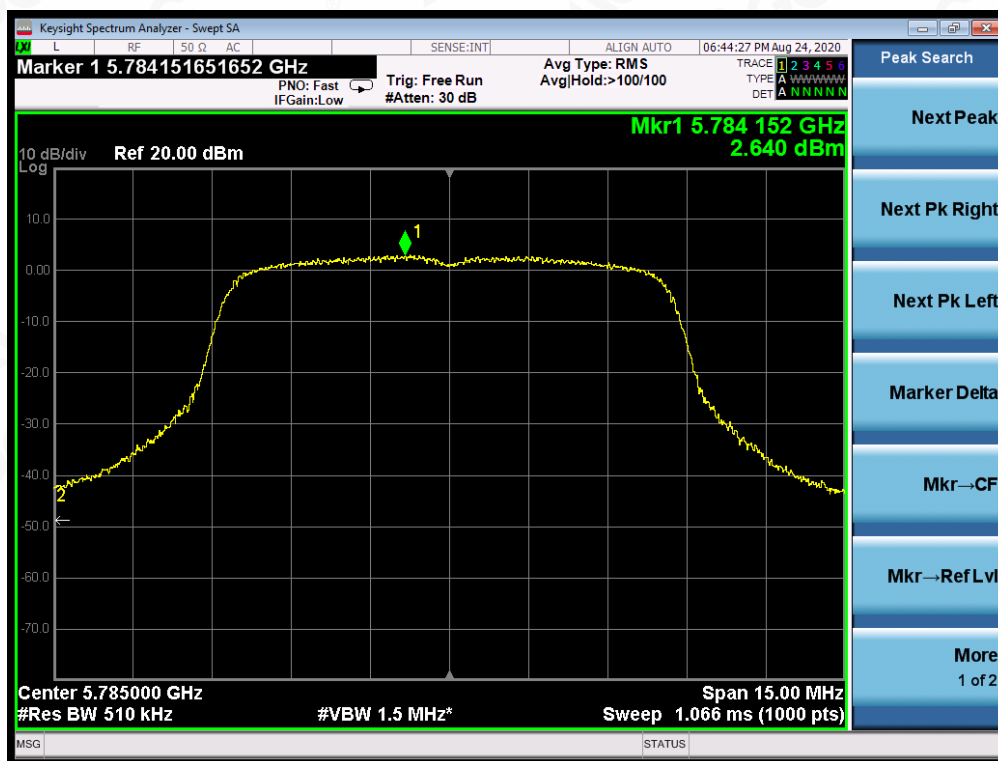
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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 2

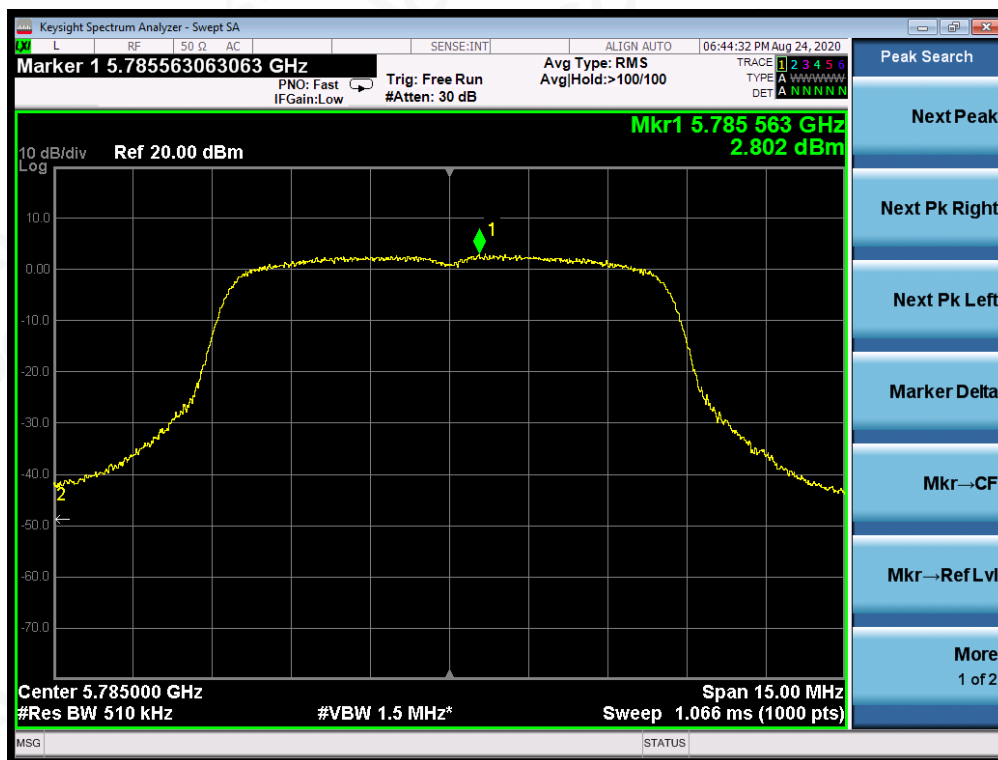


Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the "Dedicated Testing/Inspection Stamp" is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc@agc-cert.com.

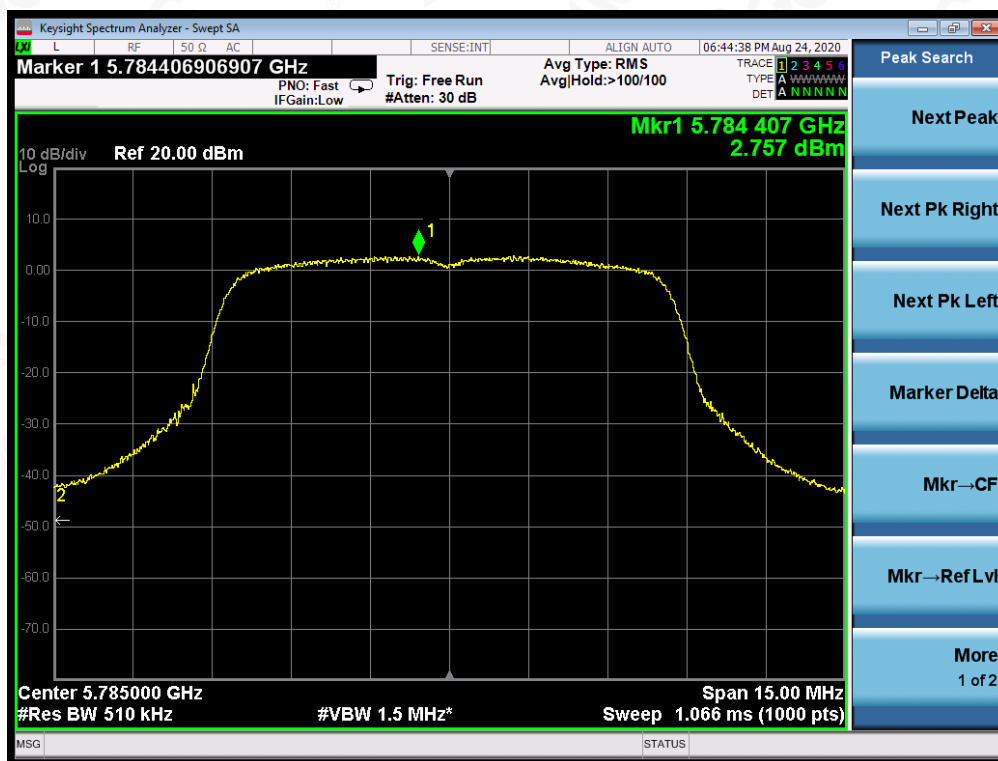
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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 3



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz AT CHAIN 4

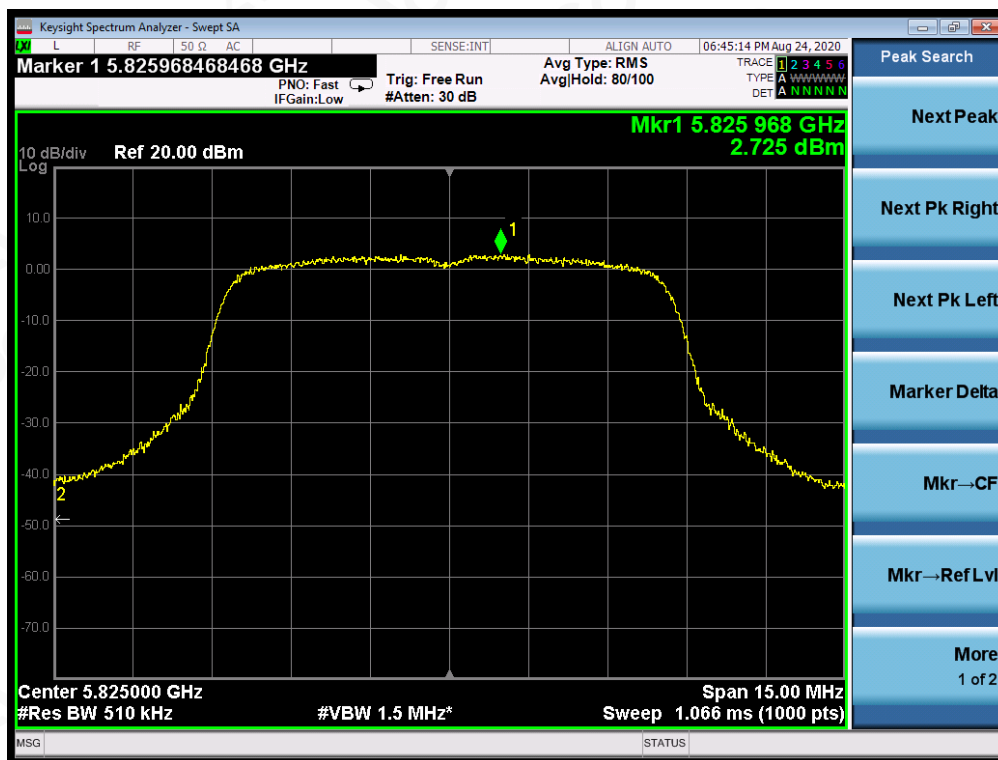


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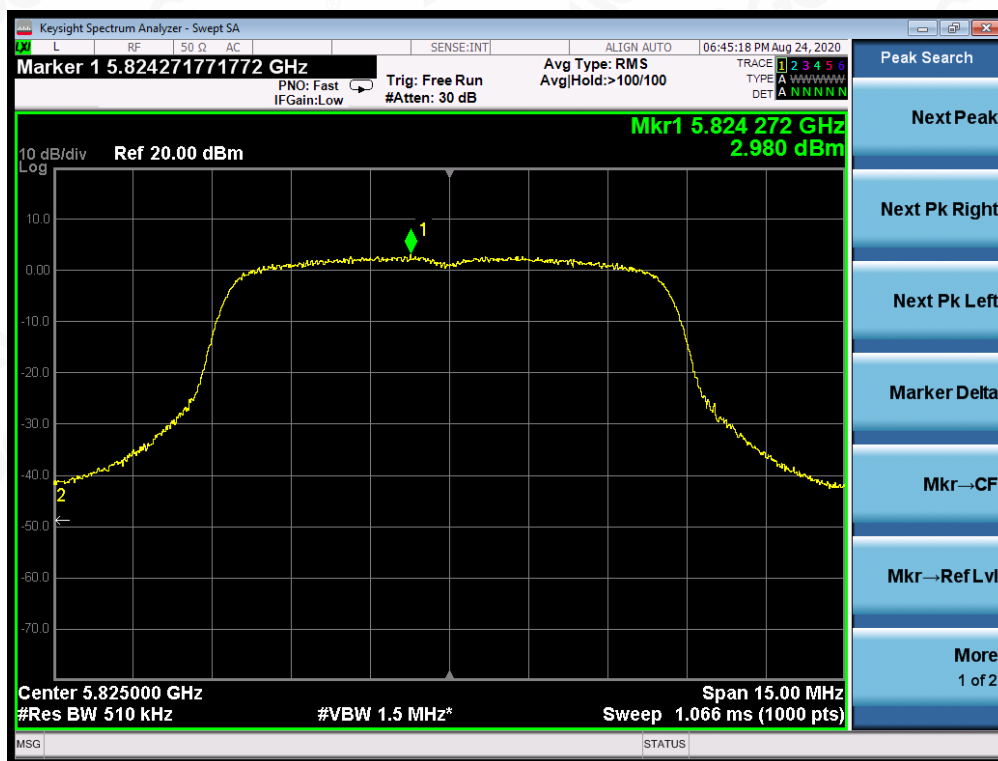
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TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 1



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 2

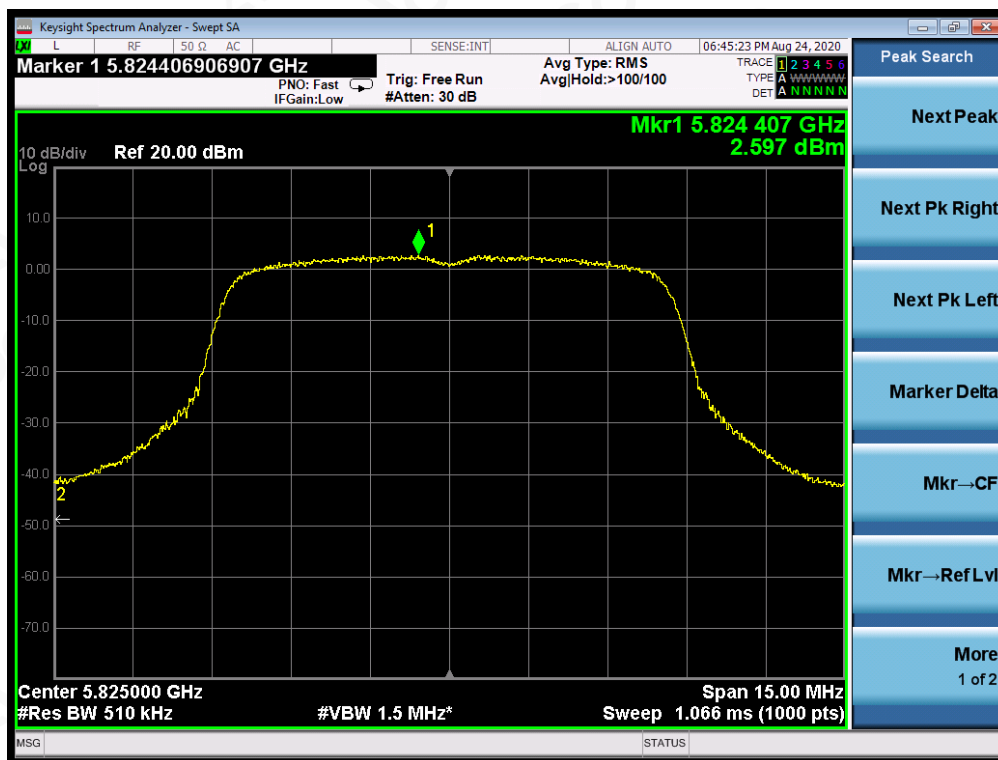


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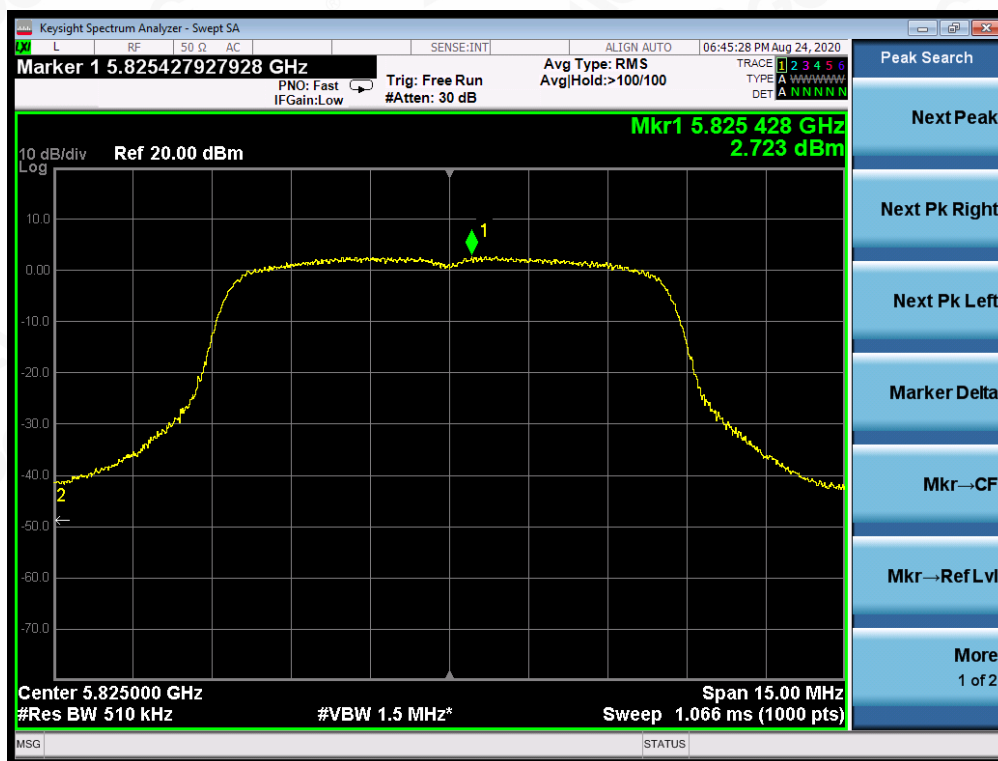
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TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 3



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz AT CHAIN 4



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