FCC Test Report

Report No.: AGC02802180601FE06

FCC ID	:	PANCM8821CU
APPLICATION PURPOSE	:	Original Equipment
PRODUCT DESIGNATION	:	ac1x1+BT module
BRAND NAME	:	CC&C
MODEL NAME	:	CM-8821CU
CLIENT	:	CC&C Technologies, Inc.
DATE OF ISSUE	:	Jul. 10, 2018
STANDARD(S) **TEST PROCEDURE(S)**	:	FCC Part 15.407 KDB 789033 D02 v02r01
REPORT VERSION	:	V1.0

Attestation of ***G***lobal ***C***ompliance (Shenzhen) Co., Ltd

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 10, 2018	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	CC&C Technologies, Inc.
Address	8F,No.150,Jian Yi Rd, Zhonghe District, New Taipei City, 235,Taiwan
Manufacturer	Kunshan CC&C Technologies, Co., Ltd
Address	No.9 building,3rd Main Street, Kunshan Free Trade Zone, Jiangsu Province, P.R. China
Product Designation	ac1x1+BT module
Brand Name	CC&C
Test Model	CM-8821CU
Date of test	Jun. 29, 2018 to Jul. 10, 2018
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.

Tested By Max Zhang
Max Zhang(Zhang Yi) Jul. 10, 2018

Reviewed By Bart Xie
Bart Xie(Xie Xiaobin) Jul. 10, 2018

Approved By Forrest Lei
Forrest Lei(Lei Yonggang) Jul. 10, 2018
Authorized Officer

2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as “ac1x1+BT module”. 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	IEEE 802.11a20:17.54dBm; IEEE 802.11n(20):16.74dBm; IEEE802.11 ac(20):15.88dBm; IEEE802.11n(40):14.56dBm IEEE802.11ac(40):14.23dBm EEE802.11ac(80):10.99dBm
Modulation	BPSK, QPSK, 16QAM, 64QAM, 128QAM, 256QAM,OFDM
Number of channels	9 for 20MHZ bandwidth system 4 for 40MHZ bandwidth system 2 for 80MHZ bandwidth system
Hardware Version	0B
Software Version	v2.0
Antenna Designation	Internal antenna
Number of transmit chain	1
Antenna Gain	6.78dBi
Power Supply	AC3.3V

2.2. TABLE OF CARRIER FREQUENCYS

Frequency Band	Channel Number	Frequency	Frequency Band	Channel Number	Frequency
5150 GHz～5250GHz	36	5180 MHz	5725 GHz～5850GHz	149	5745 MHz
	38	5190 MHz		151	5755 MHz
	40	5200 MHz		153	5765 MHz
	42	5210 MHz		155	5775MHz
	44	5220 MHz		157	5785 MHz
	46	5230 MHz		159	5795 MHz
	48	5240 MHz		161	5805 MHz
				165	5825MHz

Note: For 20MHZ bandwidth system use Channel 36,40,44,48,149,153,157,161,165; For 40MHZ bandwidth system use Channel 38,46,151,159; For 80MHZ bandwidth system use Channel 42,155

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

This submittal(s) (test report) is intended for **FCC ID: PANCM8821CU** 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.

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, Uc = ±3.2 dB
- Uncertainty of Radiated Emission below 1GHz, Uc = ±3.9 dB
- Uncertainty of Radiated Emission above 1GHz, Uc = ±4.8 dB

4. DESCRIPTION OF TEST MODES

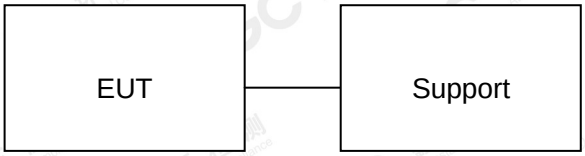
Mode	Available channel	Tested channel	Modulation	Date rate(Mbps)
802.11a/n20/ac20	36,40,44,48,149,153,157,161,165	36,38,48,149, 157,165	OFDM	6/6.5
802.11n40/ac40	38,46,151,159	38,46, 151,159	OFDM	13.5
802.11ac80	42,155	42,155	OFDM	13.5

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.

5. SYSTEM TEST CONFIGURATION

5.1 CONFIGURATION OF TESTED SYSTEM



5.2 EQUIPMENT USED IN TESTED SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	ac1x1+BT module	CM-8821CU	PANCM8821CU	EUT
2	PC	HP Pavilion 15	N/A	Support
3	PC adapter	HP 4411SS G4	DC19V/4.74A	Support

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

6. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2F., Bldg.2, No.1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Bao'an District B112-B113, Bldg.12, Baoan Bldg Materials Center, No.1 of Xixiang Inner Ring Road, Baoan District, Shenzhen 518012
NVLAP LAB CODE	600153-0
Designation Number	CN5028
FCC Test Firm Registration Number	682566
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by National Voluntary Laboratory Accreditation program, NVLAP Code 600153-0

TEST EQUIPMENT OF CONDUCTED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESPI	101206	Jun.12, 2018	Jun.11, 2019
LISN	R&S	ESH2-Z5	100086	Aug.21, 2017	Aug.20, 2018

TEST EQUIPMENT OF RADIATED EMISSION TEST

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Due
TEST RECEIVER	R&S	ESCI	10096	Jun.12, 2018	Jun.11, 2019
EXA Signal Analyzer	Aglient	N9010A	MY53470504	Dec.08, 2017	Dec.07, 2018
Power sensor	Aglient	U2021XA	MY54110007	Sep.21, 2017	Sep.20, 2018
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Sep.20, 2017	Sep.19, 2018
preamplifier	ChengYi	EMC184045SE	980508	Sep.15, 2017	Sep.14, 2018
Active loop antenna (9K-30MHz)	A.H.	SAS-562B	CC&C	Mar.01, 2018	Feb.28, 2019
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	May.18, 2017	May.17, 2019
Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-205	Jun.12, 2018	Jun.11, 2019
ANTENNA	SCHWARZBECK	VULB9168	D69250	Sep.28, 2017	Sep.27, 2018

7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

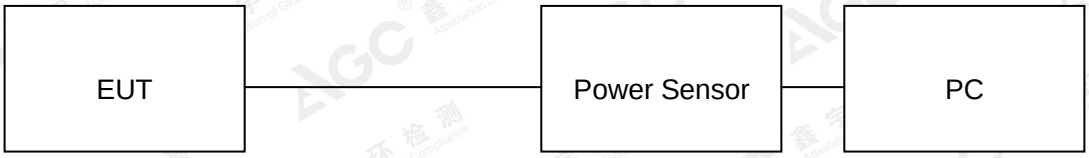
For average power test:

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



7.3. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	12.24	17.22	Pass
5200	12.85	17.22	Pass
5240	12.11	17.22	Pass
5745	17.33	23.22	Pass
5785	17.15	23.22	Pass
5825	17.54	23.22	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N20 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	11.24	17.22	Pass
5200	11.32	17.22	Pass
5240	11.28	17.22	Pass
5745	15.87	23.22	Pass
5785	16.74	23.22	Pass
5825	16.52	23.22	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5180	10.87	17.22	Pass
5200	10.74	17.22	Pass
5240	11.21	17.22	Pass
5745	15.74	23.22	Pass
5785	15.88	23.22	Pass
5825	15.72	23.22	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11N40 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5190	10.04	17.22	Pass
5230	10.69	17.22	Pass
5755	14.35	23.22	Pass
5795	14.56	23.22	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC40 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5190	10.58	17.22	Pass
5230	10.41	17.22	Pass
5755	14.23	23.22	Pass
5795	14.16	23.22	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC80 MODULATION			
Frequency (MHz)	Average Power (dBm)	Applicable Limits (dBm)	Pass or Fail
5210	10.03	17.22	Pass
5775	10.99	23.22	Pass

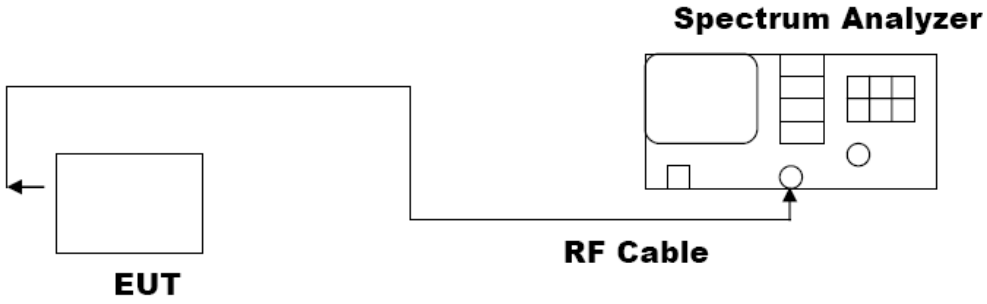
8. 6dB BANDWIDTH

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 ≥3*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)



8.3. LIMITS AND MEASUREMENT RESULTS

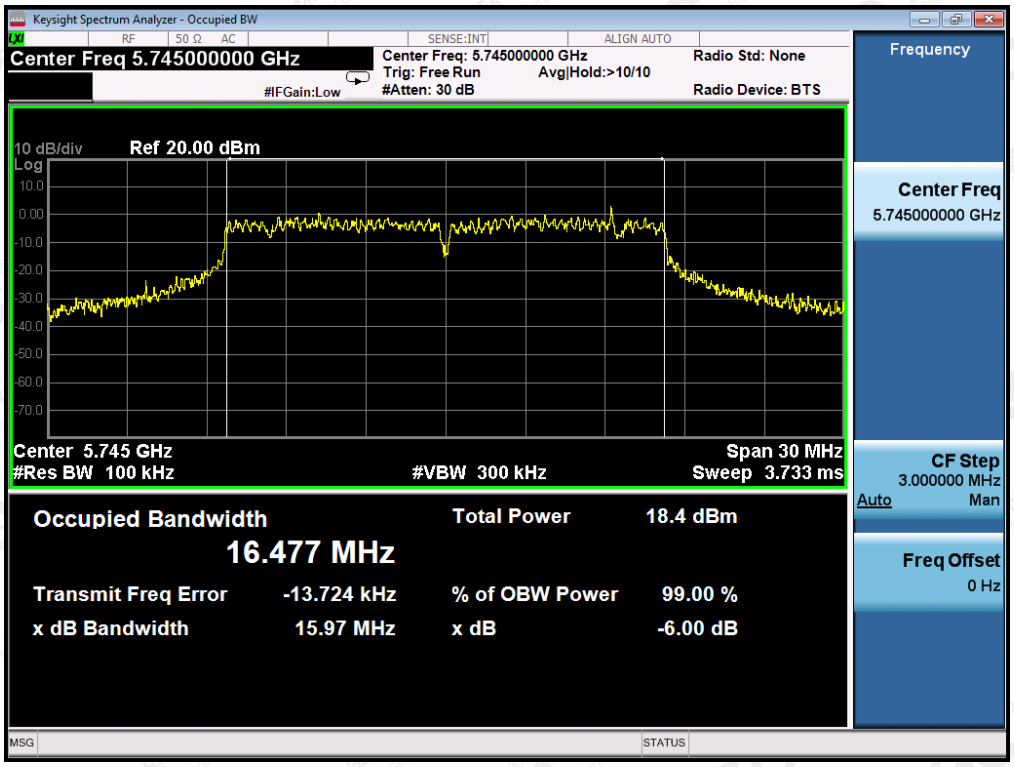
LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	15.97	PASS
	5785MHz	16.36	PASS
	5825MHz	16.37	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	17.56	PASS
	5785MHz	16.70	PASS
	5825MHz	15.95	PASS
	5755MHz	35.12	PASS
	5795MHz	35.47	PASS

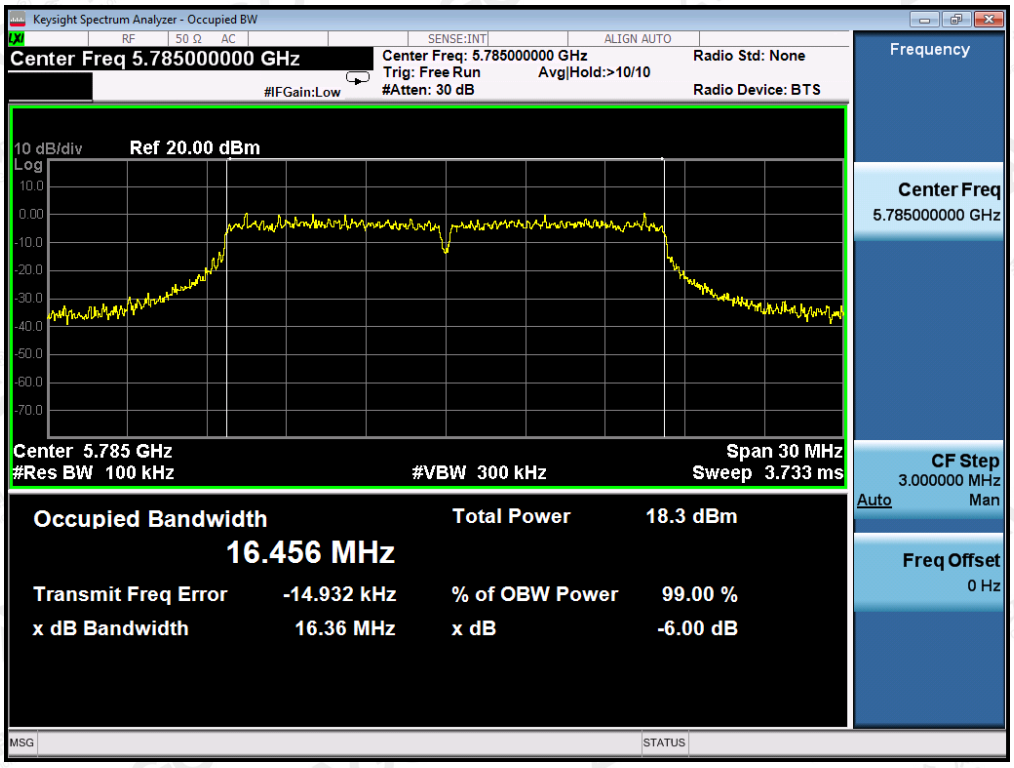
LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION			
Applicable Limits	Applicable Limits		
	Test Data (MHz)		Criteria
>500KHZ	5745MHz	16.26	PASS
	5785MHz	17.28	PASS
	5825MHz	16.62	PASS
	5755MHz	35.65	PASS
	5795MHz	35.17	PASS
	5775MHz	72.76	PASS

802.11a20 TEST RESULT

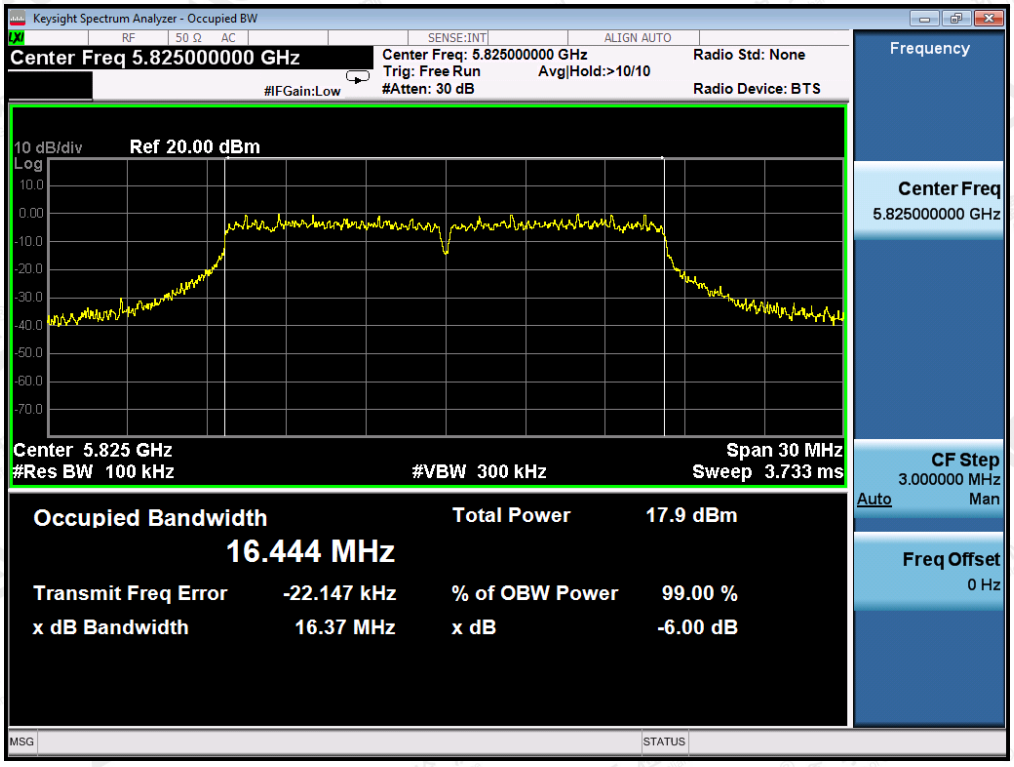
TEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5785MHz



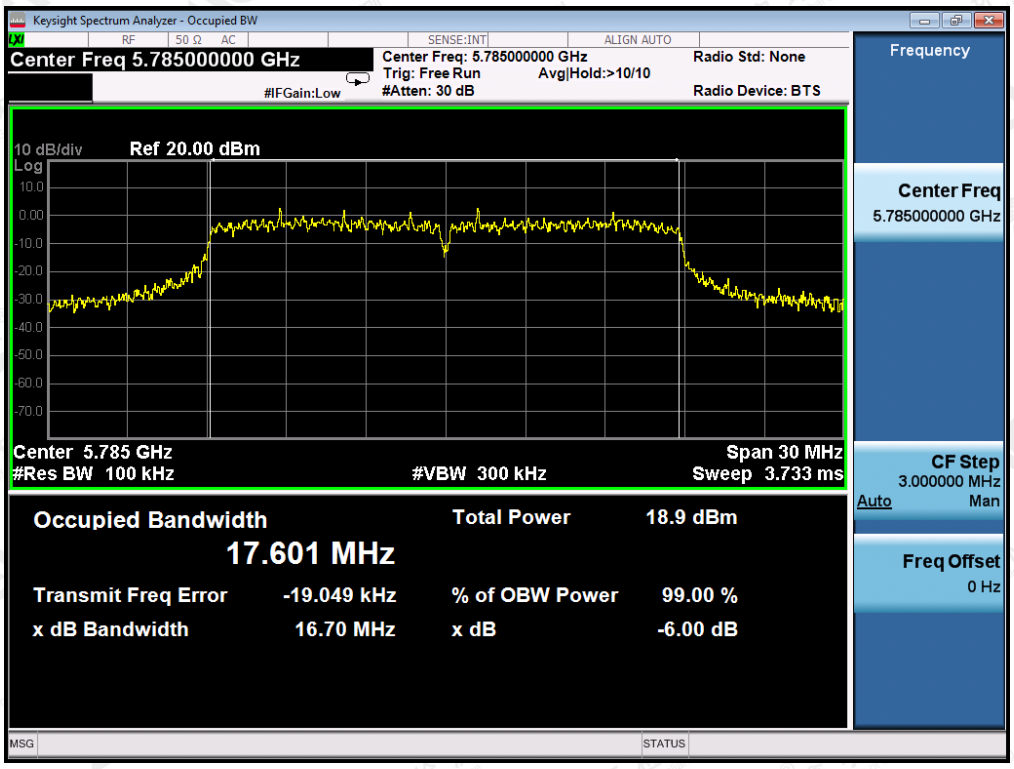
TEST PLOT OF BANDWIDTH FOR 5825MHz



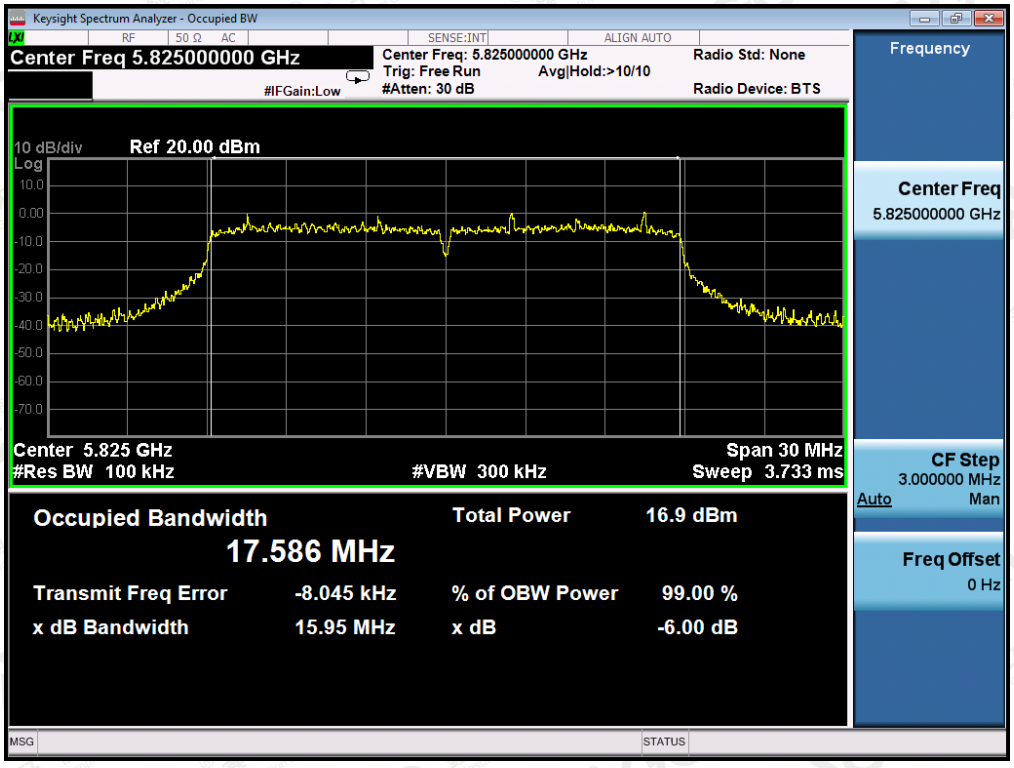
802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5745MHz

TEST PLOT OF BANDWIDTH FOR 5785MHz

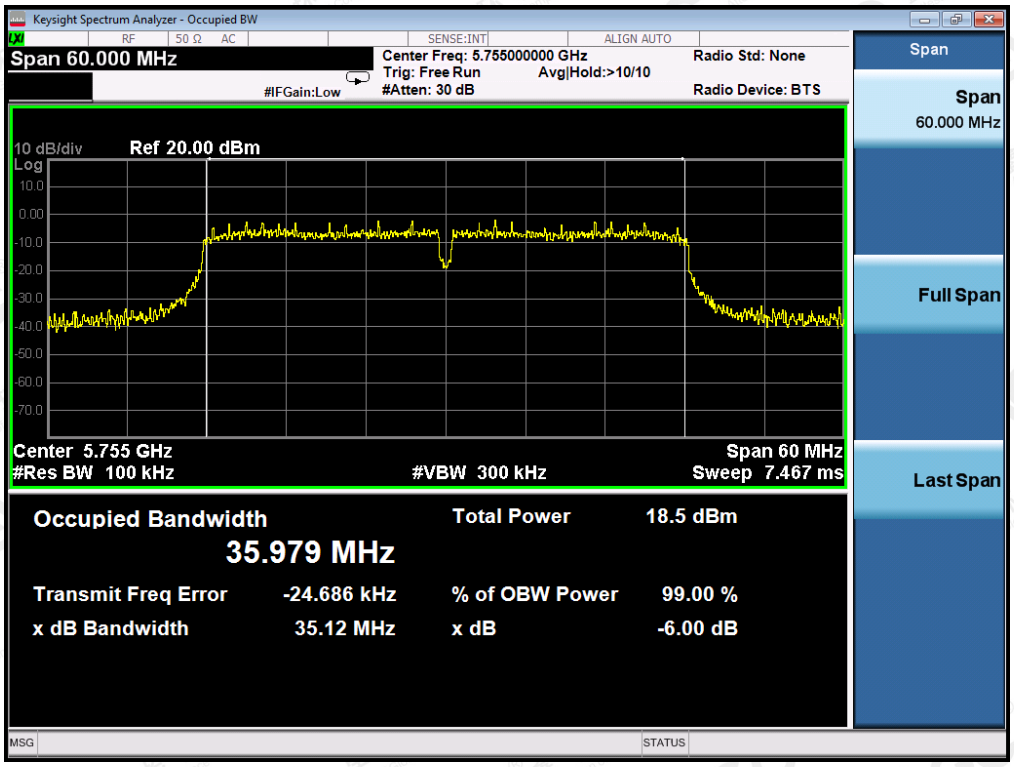


TEST PLOT OF BANDWIDTH FOR 5825MHz

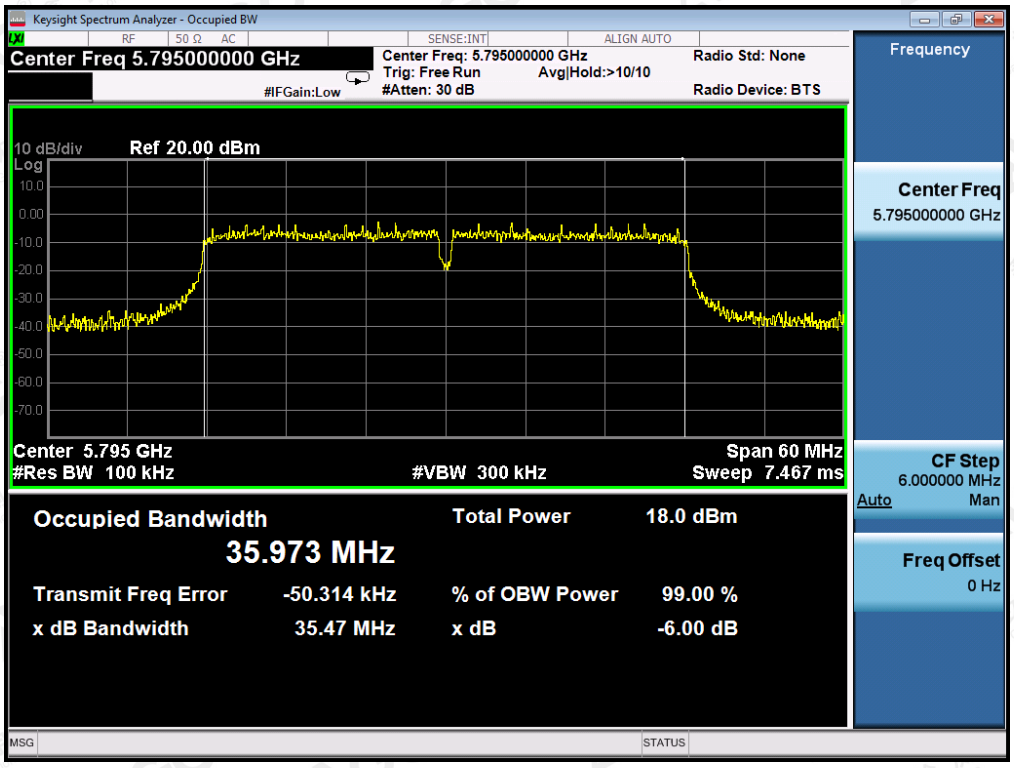


802.11n40 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5755MHz

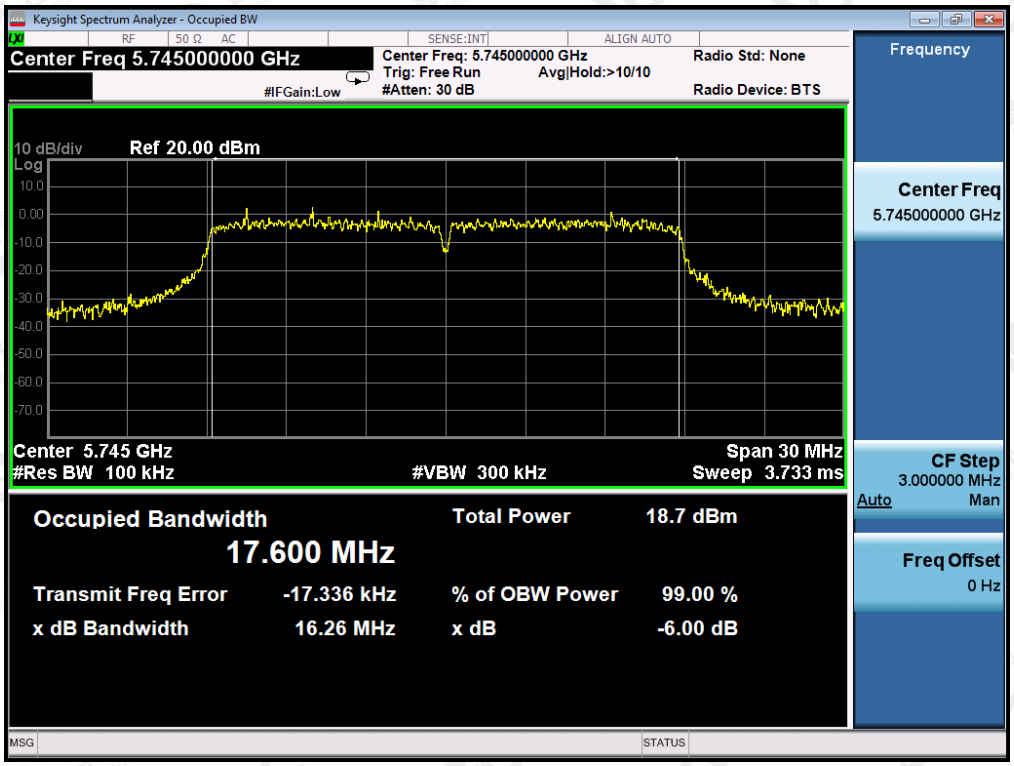


TEST PLOT OF BANDWIDTH FOR 5795MHz

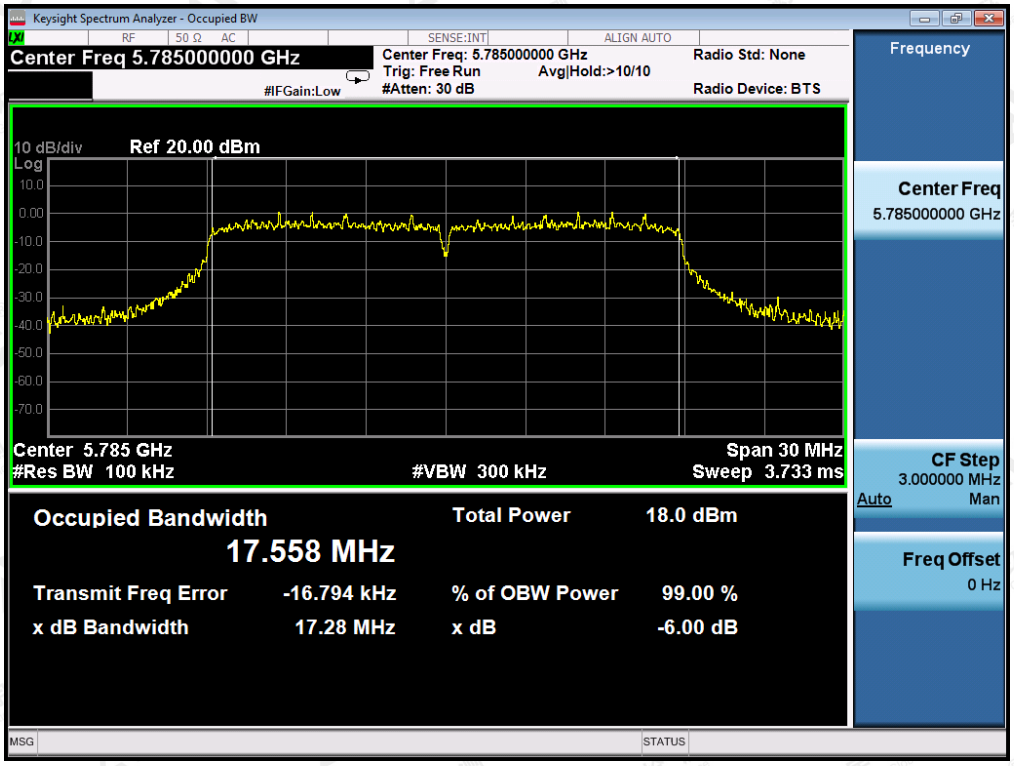


802.11ac20 TEST RESULT

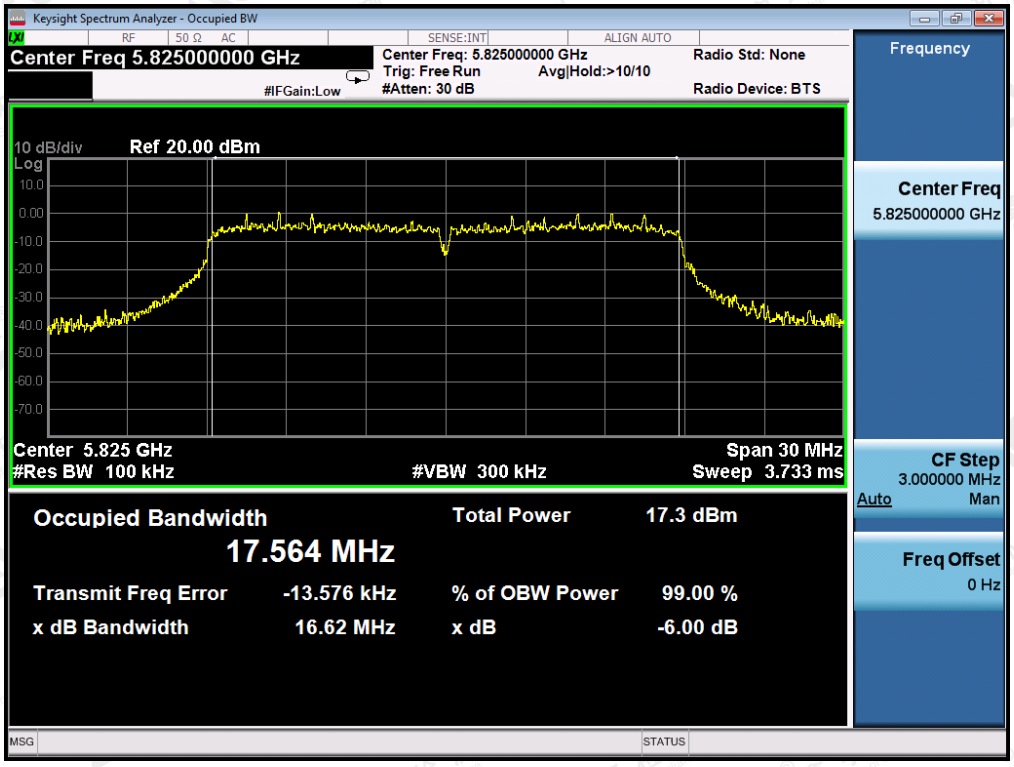
TEST PLOT OF BANDWIDTH FOR 5745MHz



TEST PLOT OF BANDWIDTH FOR 5785MHz



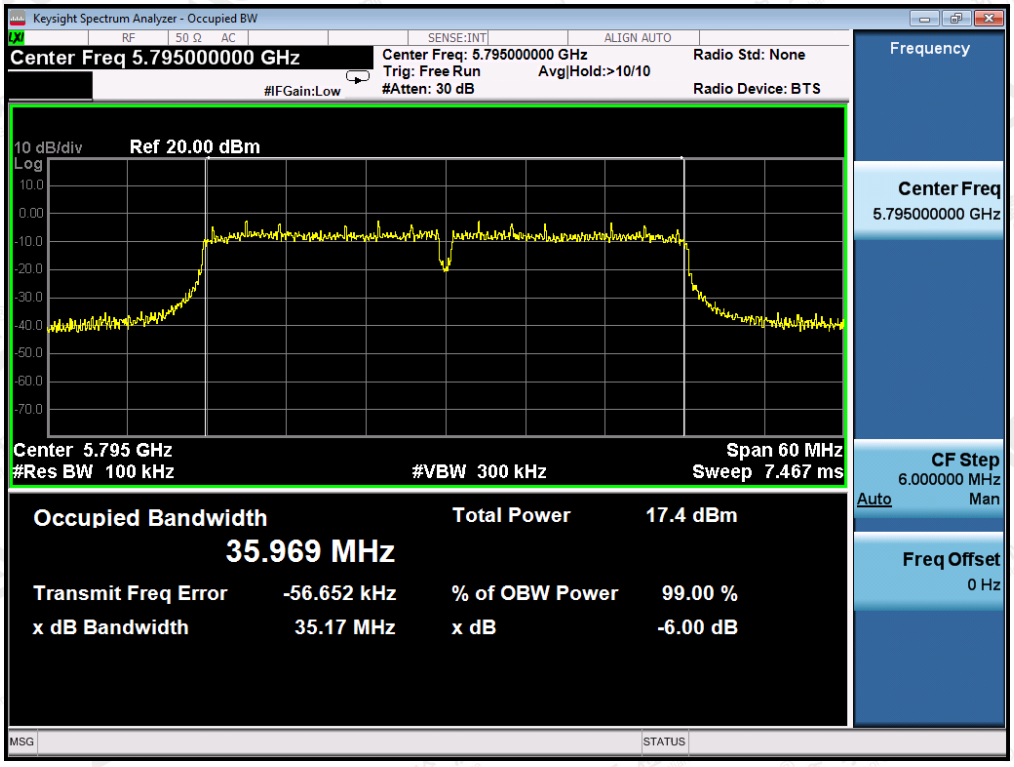
TEST PLOT OF BANDWIDTH FOR 5825MHz



802.11ac40 TEST RESULT

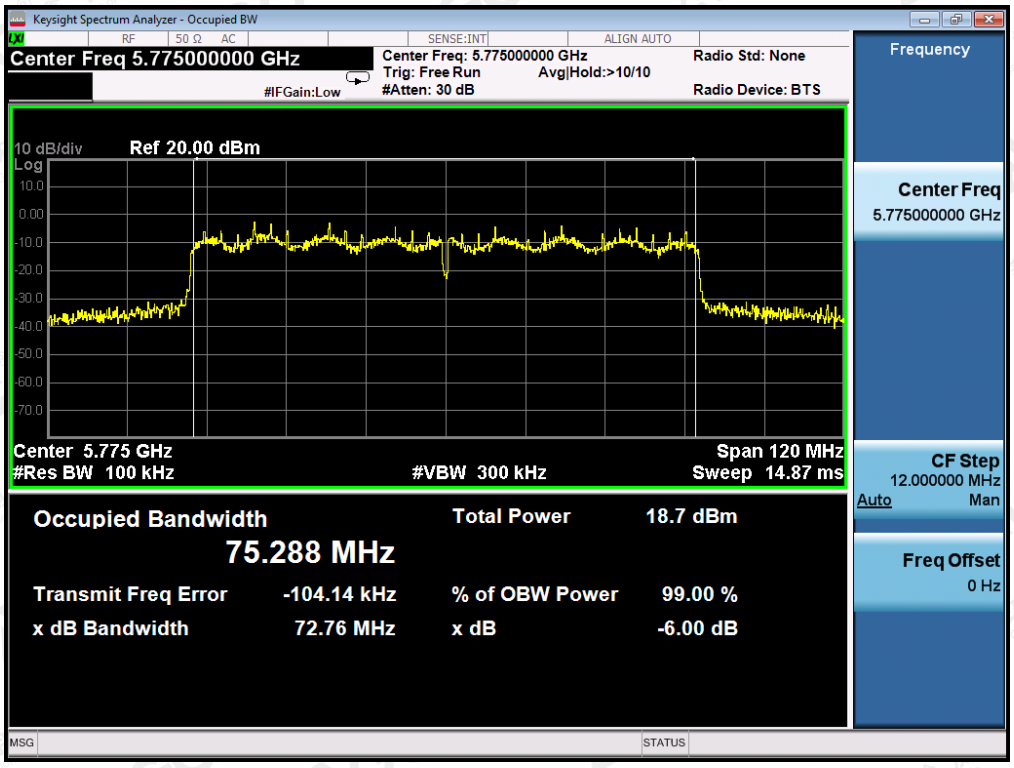
TEST PLOT OF BANDWIDTH FOR 5755MHz

TEST PLOT OF BANDWIDTH FOR 5795MHz



802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5775MHz



9. EMISSION BANDWIDTH

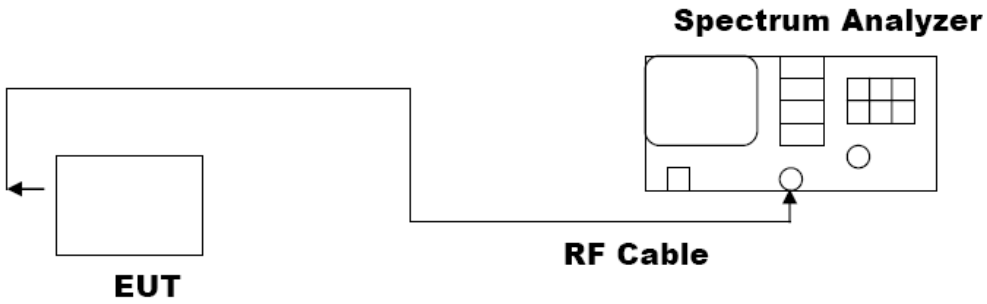
9.1. MEASUREMENT PROCEDURE

a) Set RBW = approximately 1% of the emission bandwidth.
a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) 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%.

The following procedure shall be used for measuring (99 %) power bandwidth:
1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. Peak detection and max hold mode (until the trace stabilizes) shall be used.
6. Use the 99 % power bandwidth function of the instrument

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)



9.3. LIMITS AND MEASUREMENT RESULTS

LIMITS AND MEASUREMENT RESULT FOR 802.11A20 MODULATION			
Test Channel	**-26dBc EBW (MHz)**	**99% OBW (MHz)**	**Criteria**
5180MHz	20.24	16.511	PASS
5200MHz	20.56	16.530	PASS
5240MHz	20.26	16.519	PASS

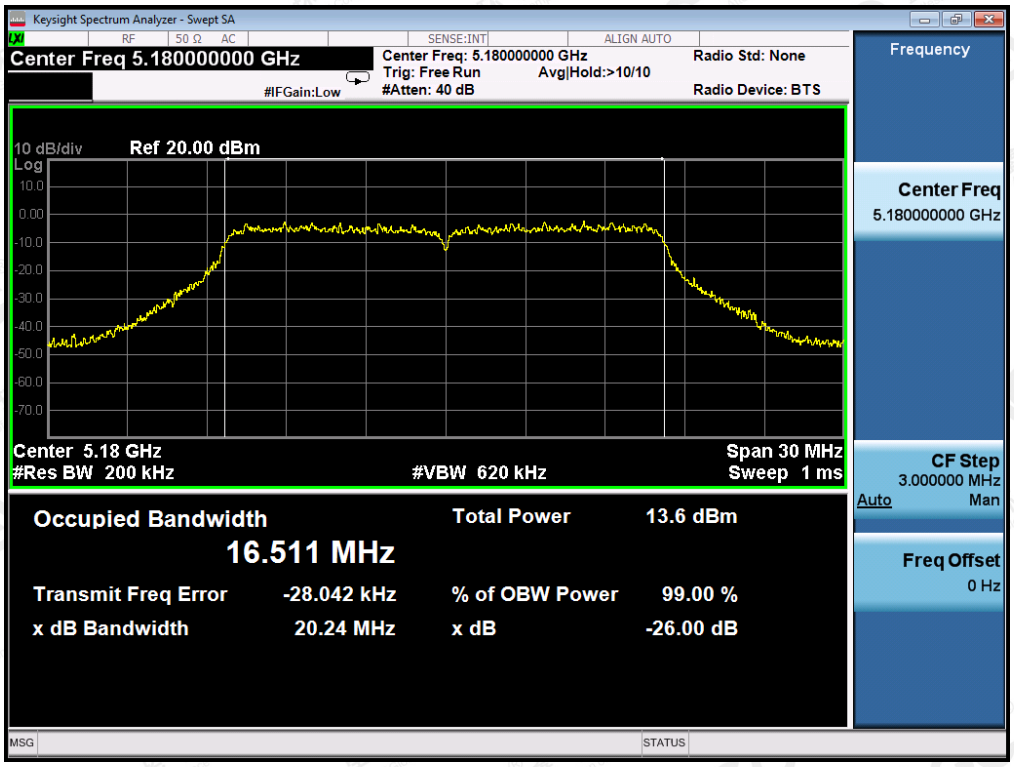
LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Test Channel	**-26dBc EBW (MHz)**	**99% OBW (MHz)**	**Criteria**
5180MHz	20.11	17.629	PASS
5200MHz	20.77	17.617	PASS
5240MHz	20.40	17.609	PASS
5190MHz	39.80	35.936	PASS
5230MHz	39.93	35.900	PASS

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION			
Test Channel	**-26dBc EBW (MHz)**	**99% OBW (MHz)**	**Criteria**
5180MHz	20.95	17.598	PASS
5200MHz	20.62	17.633	PASS
5240MHz	20.99	17.616	PASS
5190MHz	39.70	35.925	PASS
5230MHz	39.36	35.936	PASS
5210MHz	77.78	74.913	PASS

A 26-dB bandwidth that straddles into U-NII 2A band but its 99% occupied power bandwidth does not. If DFS is required, the device must be able to detect radar signal within its 99% occupied power bandwidth. For this rare case, DFS requirement does not apply.

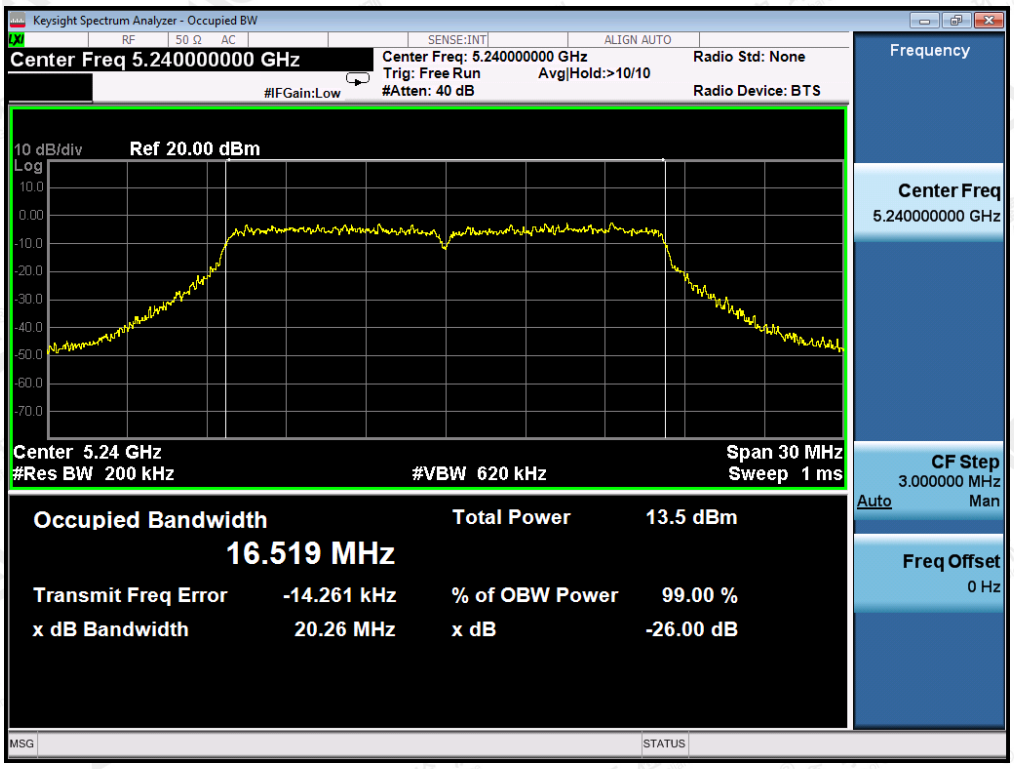
802.11a20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz

TEST PLOT OF BANDWIDTH FOR 5240MHz

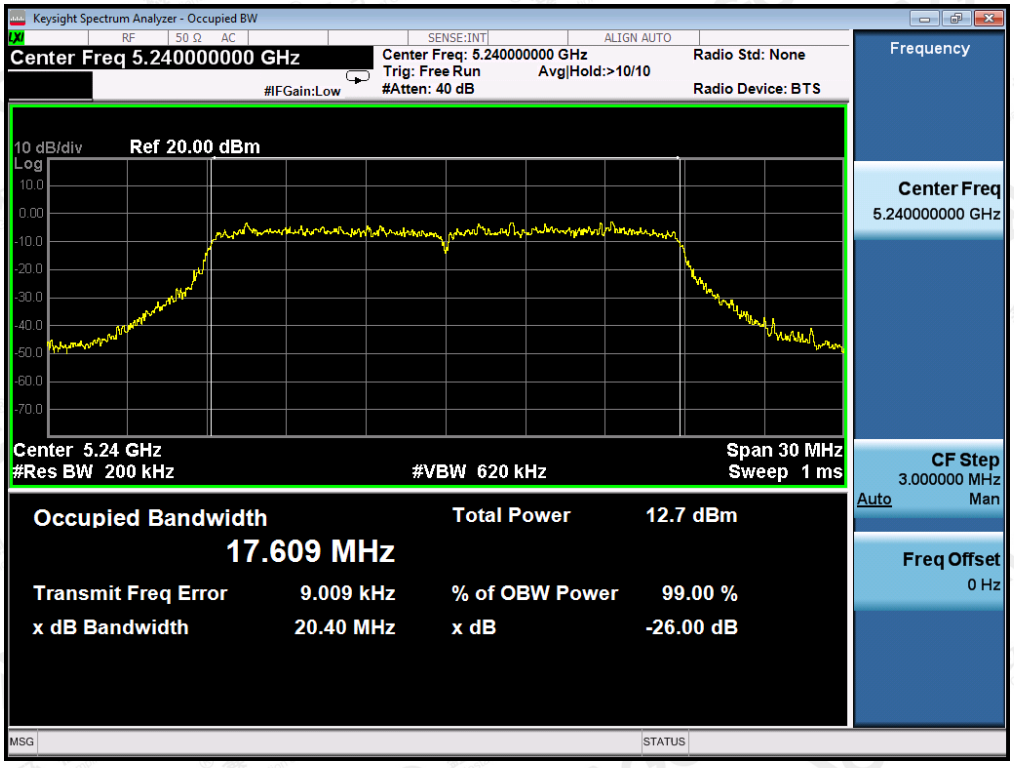


802.11n20 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5180MHz

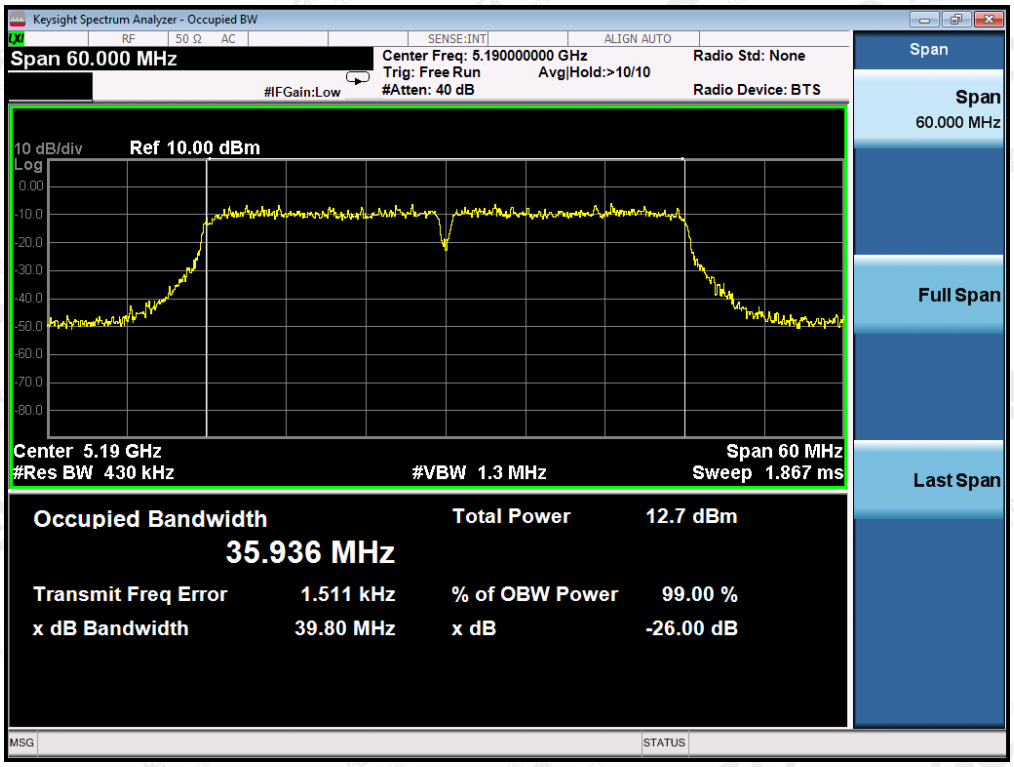
TEST PLOT OF BANDWIDTH FOR 5200MHz

TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11n40 TEST RESULT

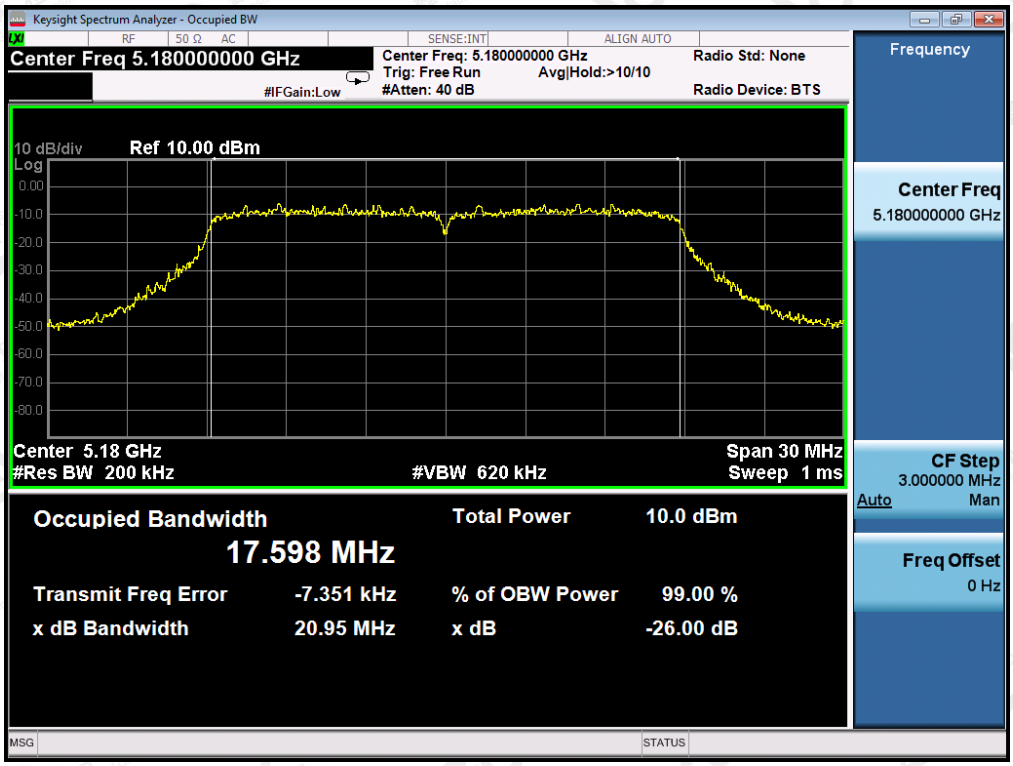
TEST PLOT OF BANDWIDTH FOR 5190MHz



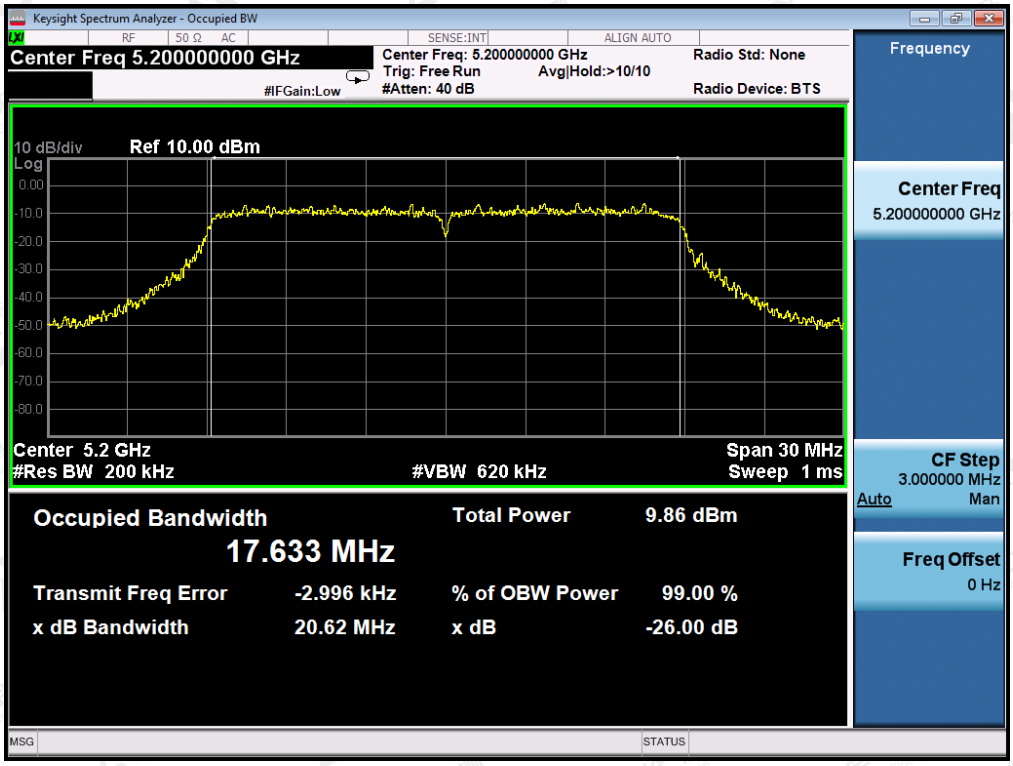
TEST PLOT OF BANDWIDTH FOR 5230MHz

802.11ac20 TEST RESULT

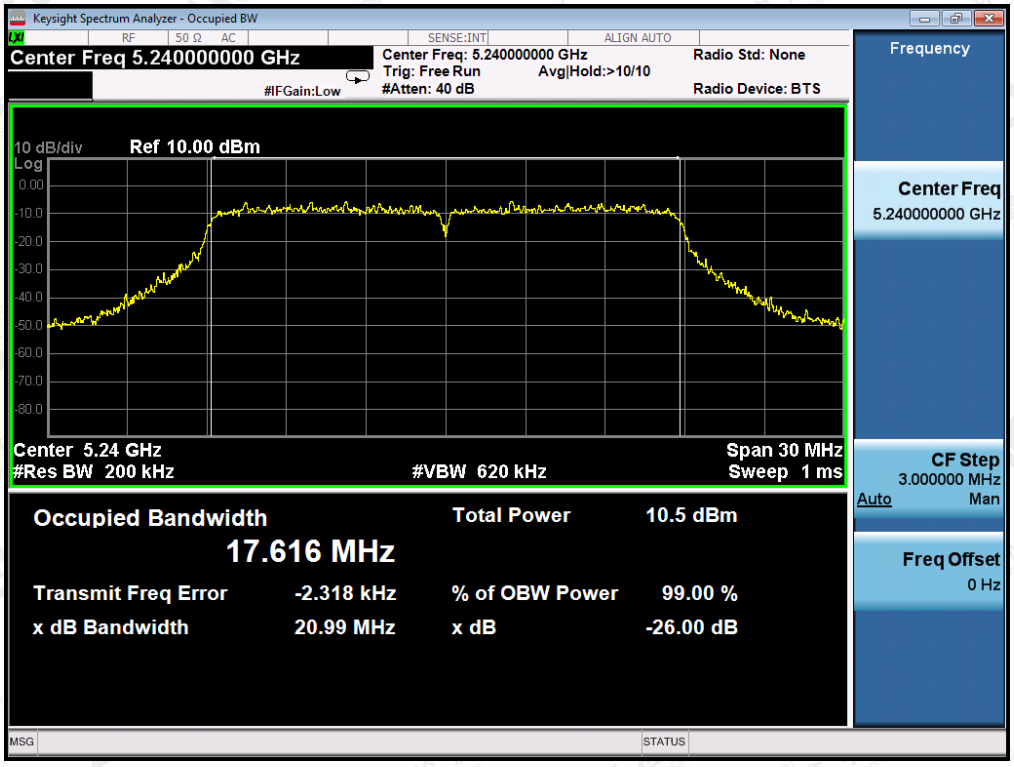
TEST PLOT OF BANDWIDTH FOR 5180MHz



TEST PLOT OF BANDWIDTH FOR 5200MHz



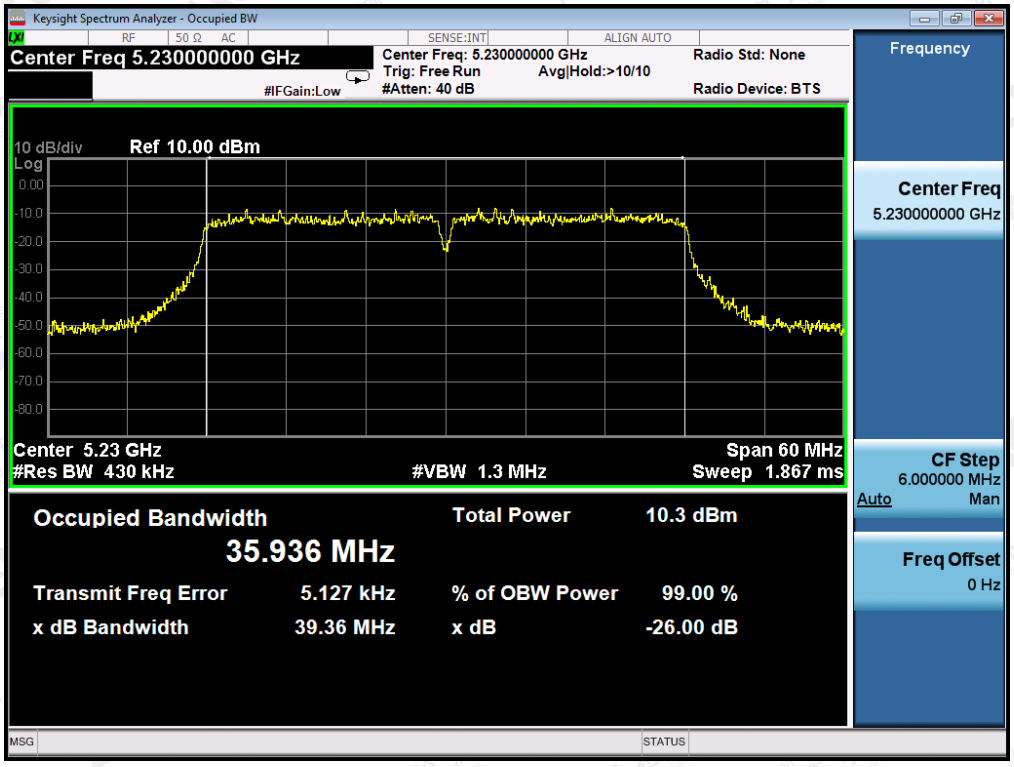
TEST PLOT OF BANDWIDTH FOR 5240MHz



802.11ac40 TEST RESULT

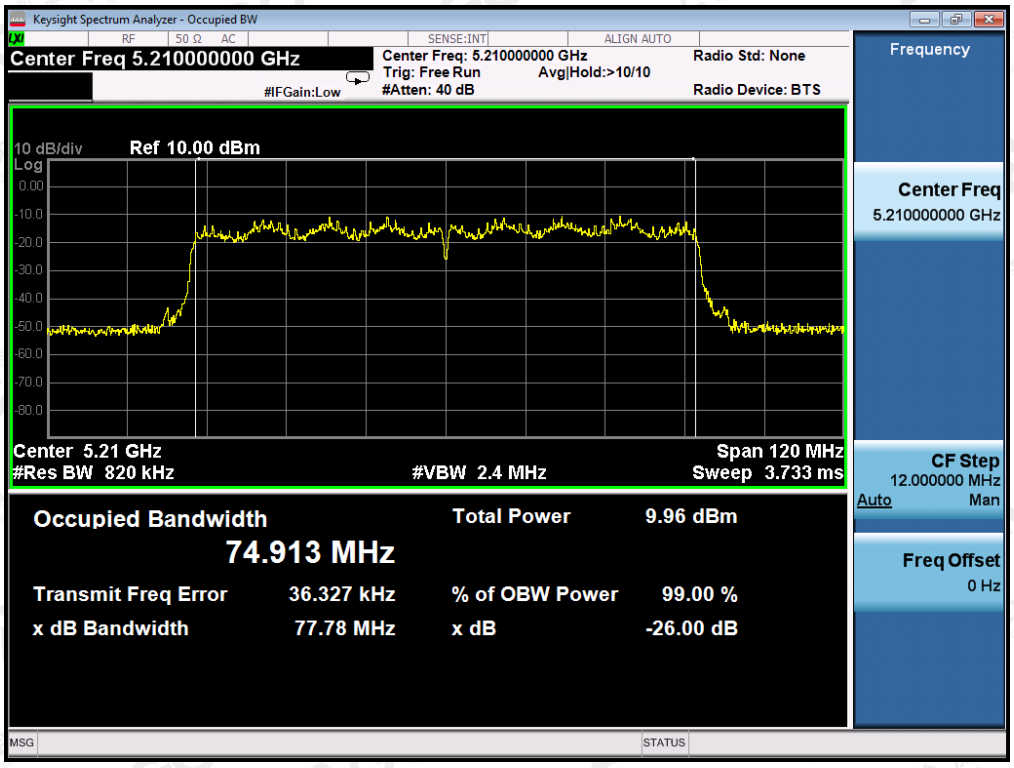
TEST PLOT OF BANDWIDTH FOR 5190MHz

TEST PLOT OF BANDWIDTH FOR 5230MHz



802.11ac80 TEST RESULT

TEST PLOT OF BANDWIDTH FOR 5210MHz



10. MAXIMUM CONDUCTED OUTPUT PEAK 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 802.11A20 MODULATION			
Frequency (MHz)	**Power density (dBm/MHz)**	**Applicable Limits (dBm/MHz)**	**Pass or Fail**
5180	4.101	4.22	Pass
5200	4.140	4.22	Pass
5240	4.127	4.22	Pass
Frequency (MHz)	**Power density (dBm/500kHz)**	**Applicable Limits (dBm/500kHz)**	**Pass or Fail**
5745	6.135	23.22	Pass
5785	5.614	23.22	Pass
5825	5.401	23.22	Pass

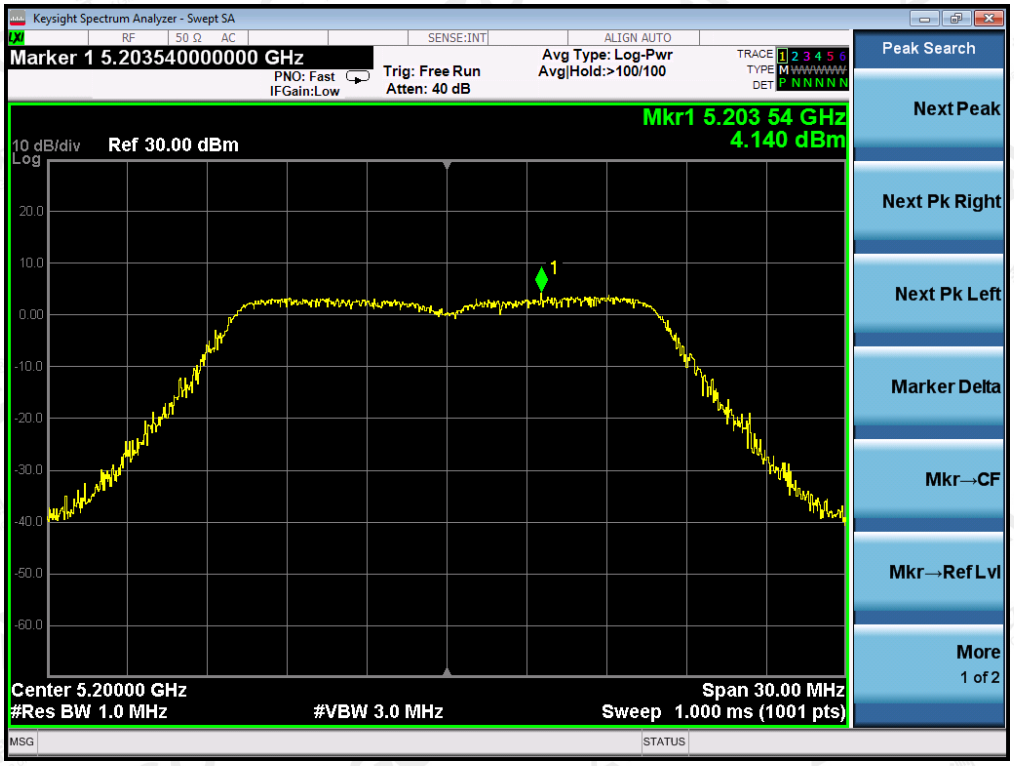
LIMITS AND MEASUREMENT RESULT FOR 802.11N20/40 MODULATION			
Frequency (MHz)	**Power density (dBm/MHz)**	**Applicable Limits (dBm/MHz)**	**Pass or Fail**
5180	3.808	4.22	Pass
5200	3.887	4.22	Pass
5240	3.677	4.22	Pass
5190	1.761	4.22	Pass
5230	2.075	4.22	Pass
Frequency (MHz)	**Power density (dBm/500kHz)**	**Applicable Limits (dBm/500Hz)**	**Pass or Fail**
5745	5.187	23.22	Pass
5785	4.791	23.22	Pass
5825	4.930	23.22	Pass
5755	3.626	23.22	Pass
5795	3.194	23.22	Pass

LIMITS AND MEASUREMENT RESULT FOR 802.11AC20/40/80 MODULATION			
Frequency (MHz)	**Power density (dBm/MHz)**	**Applicable Limits (dBm/MHz)**	**Pass or Fail**
5180	3.219	4.22	Pass
5200	3.521	4.22	Pass
5240	3.484	4.22	Pass
5190	1.702	4.22	Pass
5230	2.015	4.22	Pass
5210	0.044	4.22	Pass
Frequency (MHz)	**Power density (dBm/500kHz)**	**Applicable Limits (dBm/500kHz)**	**Pass or Fail**
5745	5.913	23.22	Pass
5785	5.744	23.22	Pass
5825	5.665	23.22	Pass
5755	2.384	23.22	Pass
5795	2.584	23.22	Pass
5775	-0.179	23.22	Pass

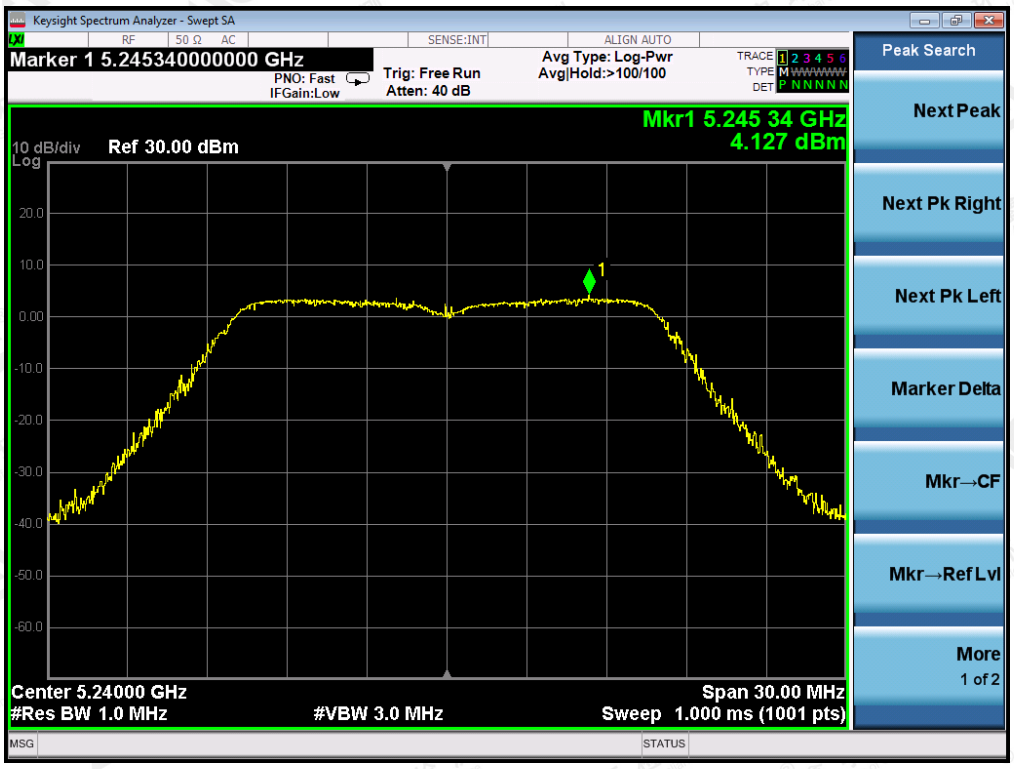
802.11a20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

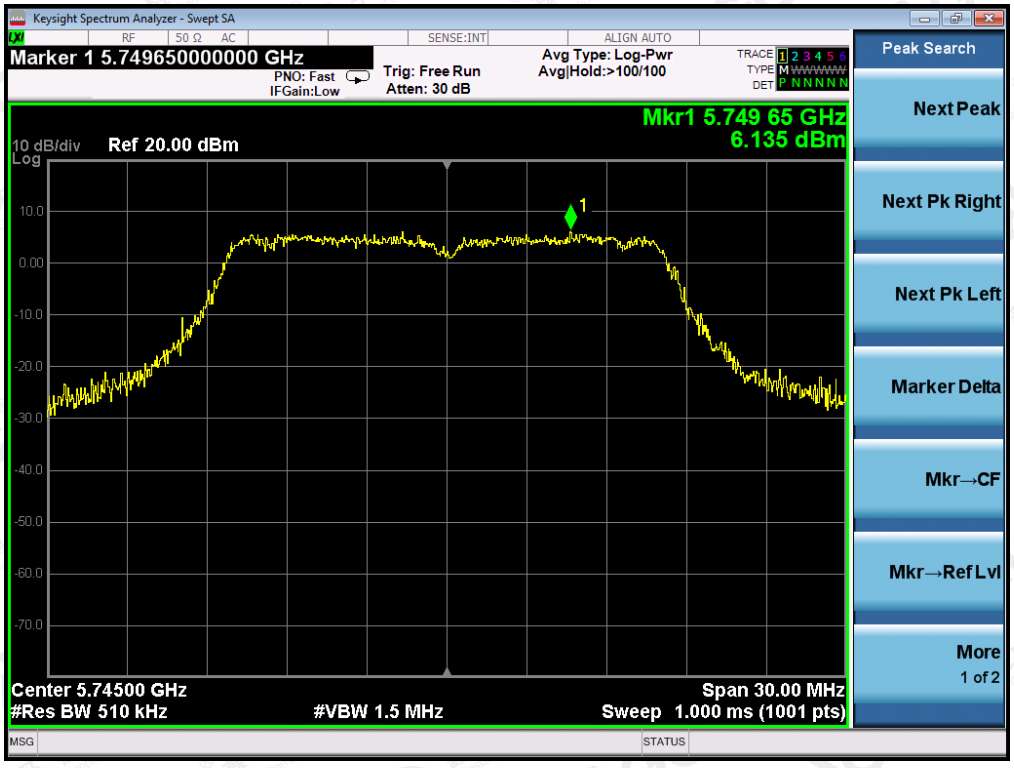
TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz



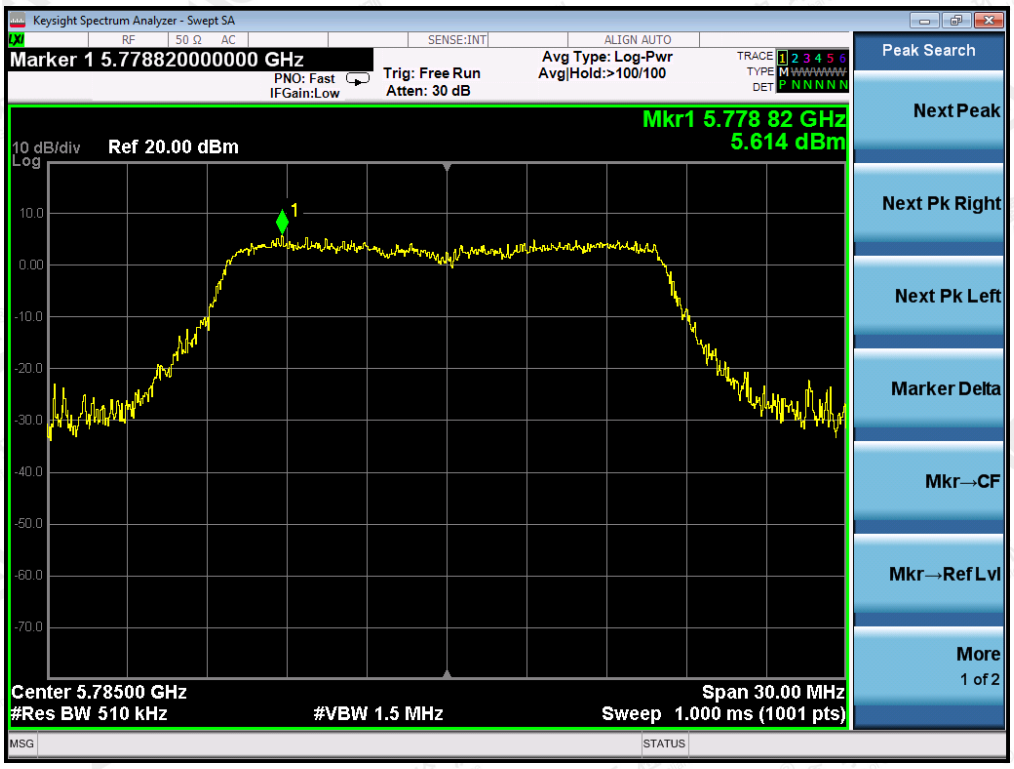
TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



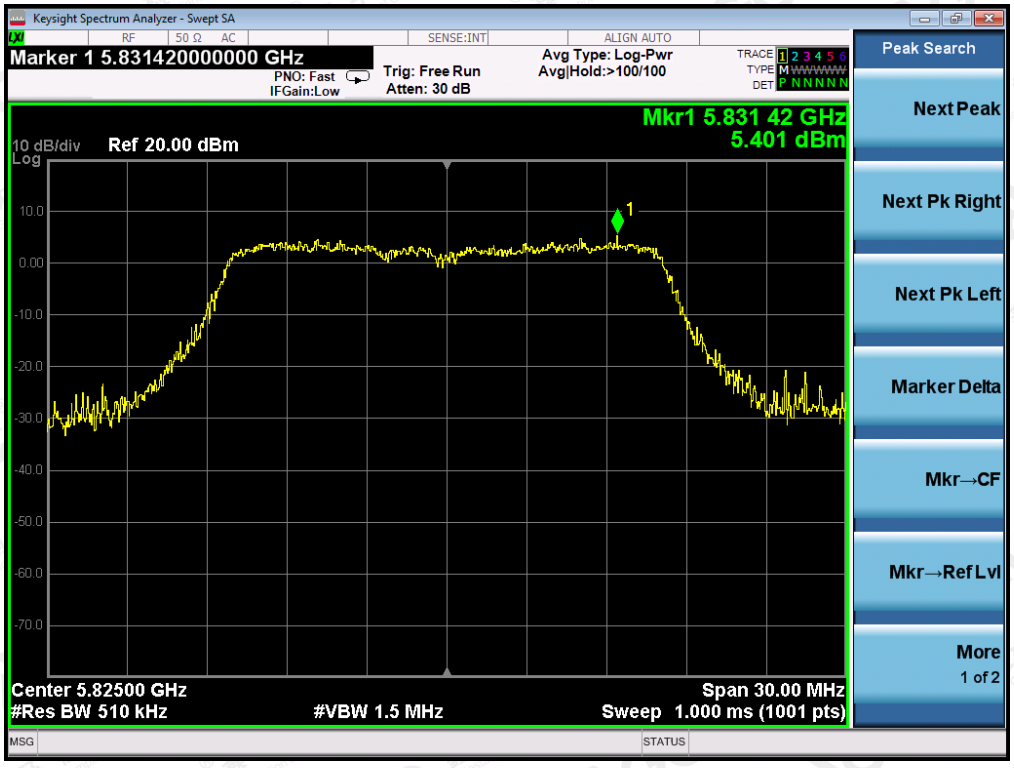
TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



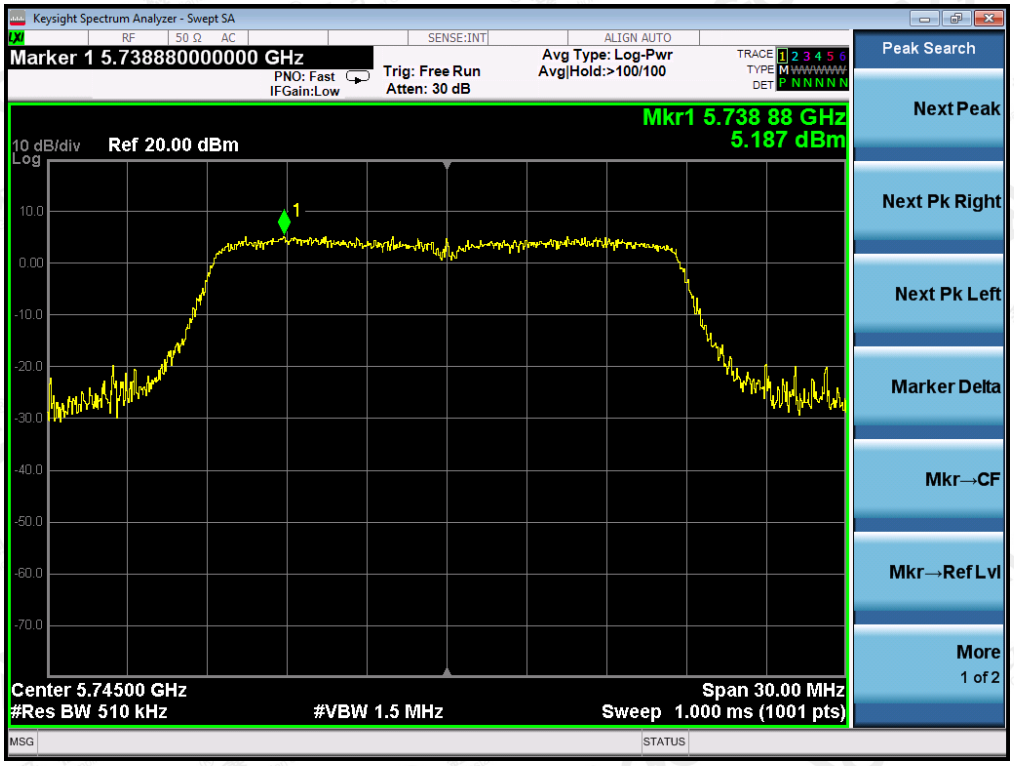
802.11n20 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

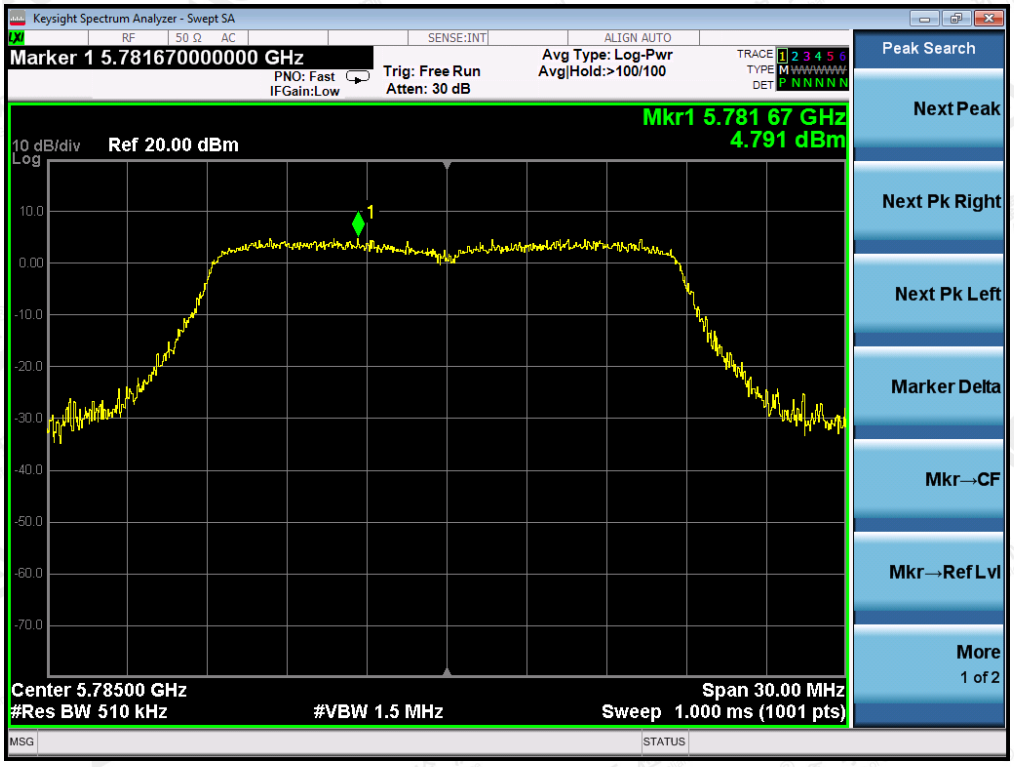
TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

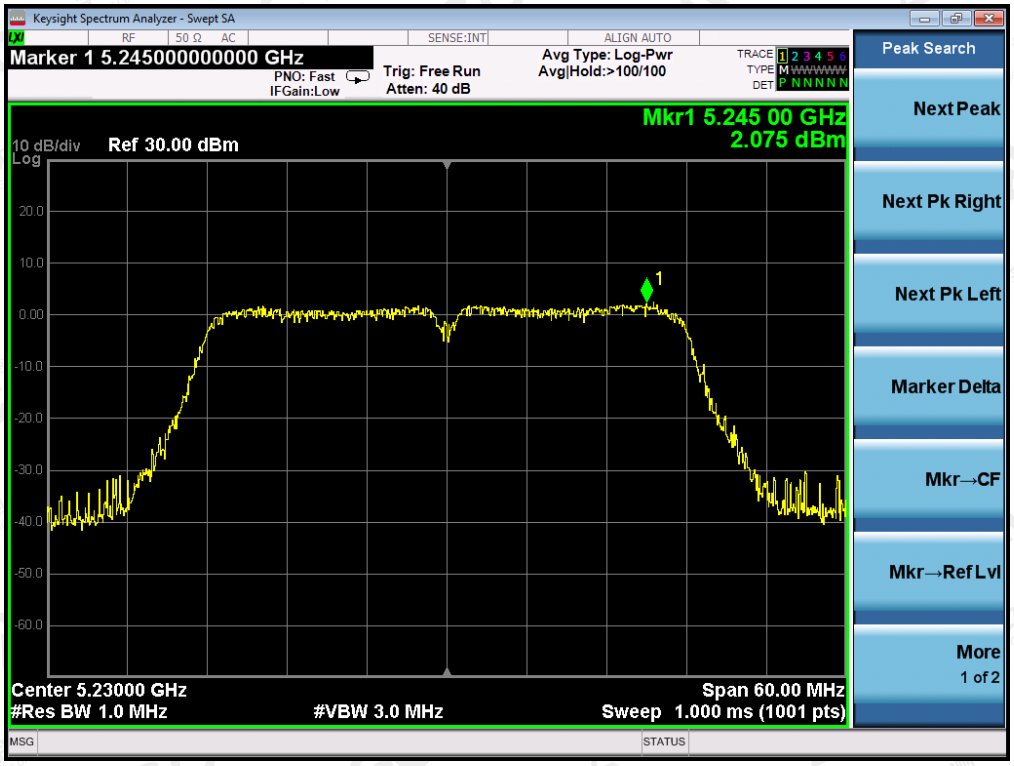


TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz

802.11n40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

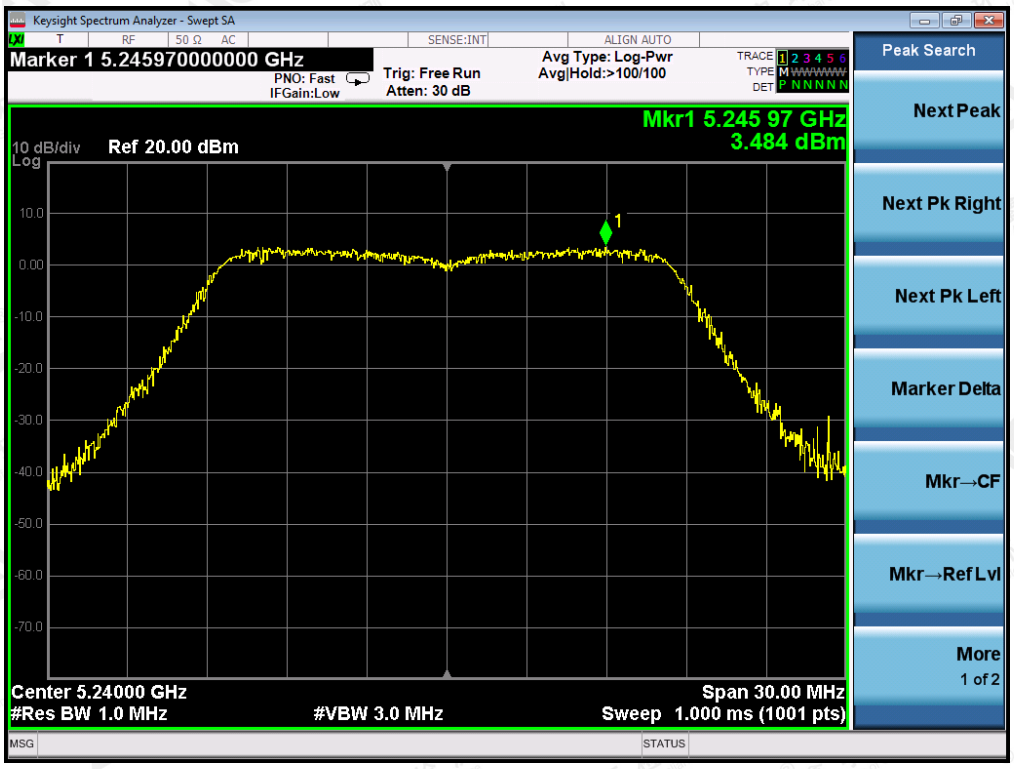
TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz

802.11ac20 TEST RESULT

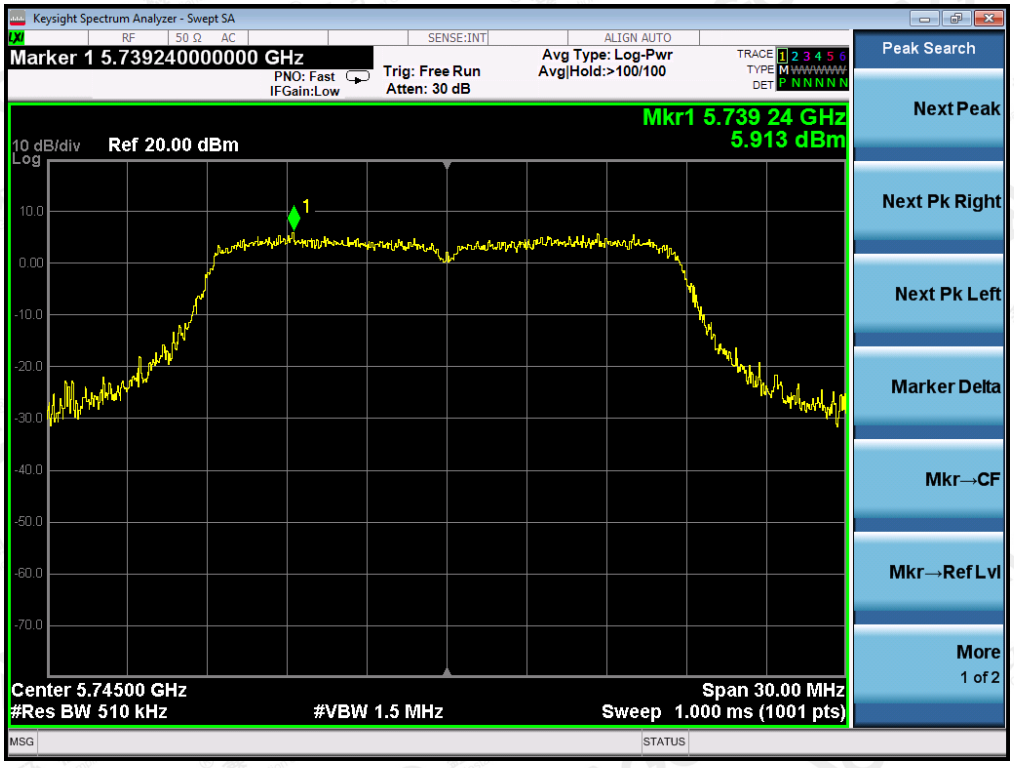
TEST PLOT OF SPECTRAL DENSITY FOR 5180MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5200MHz

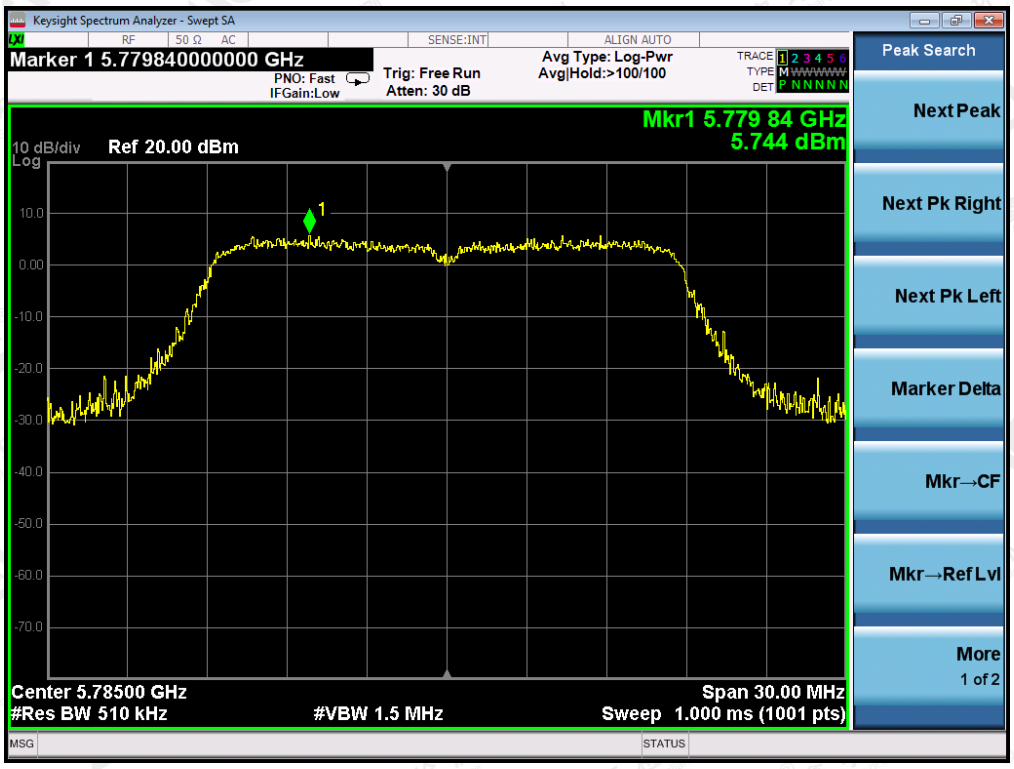
TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz



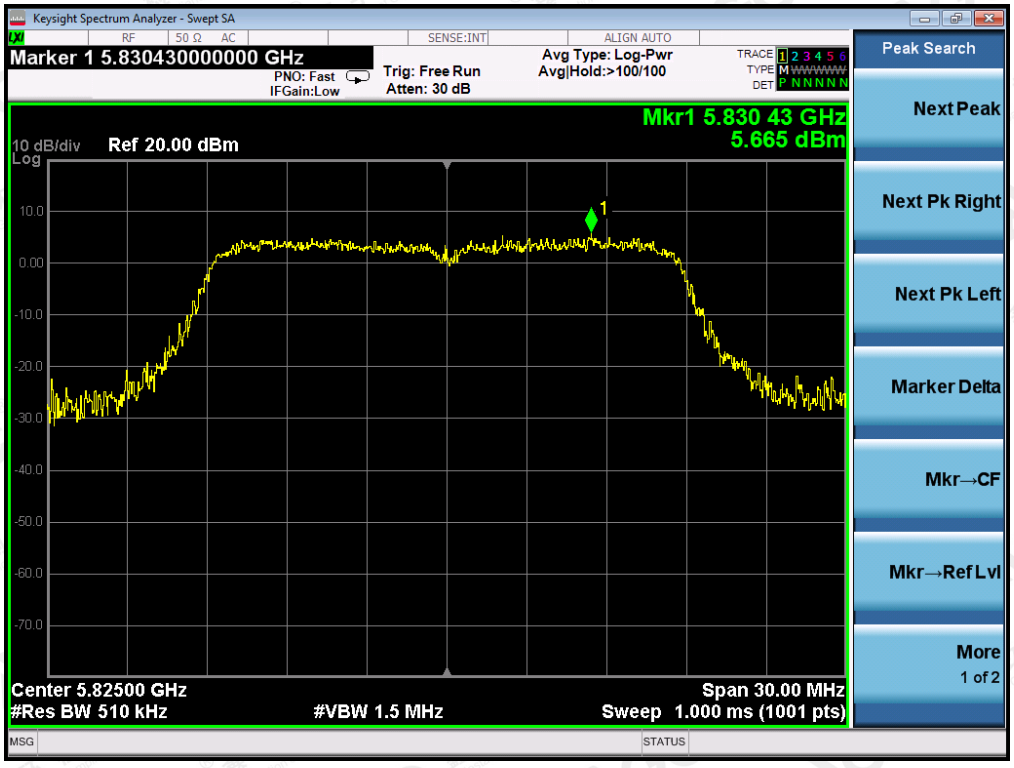
TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz



TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz



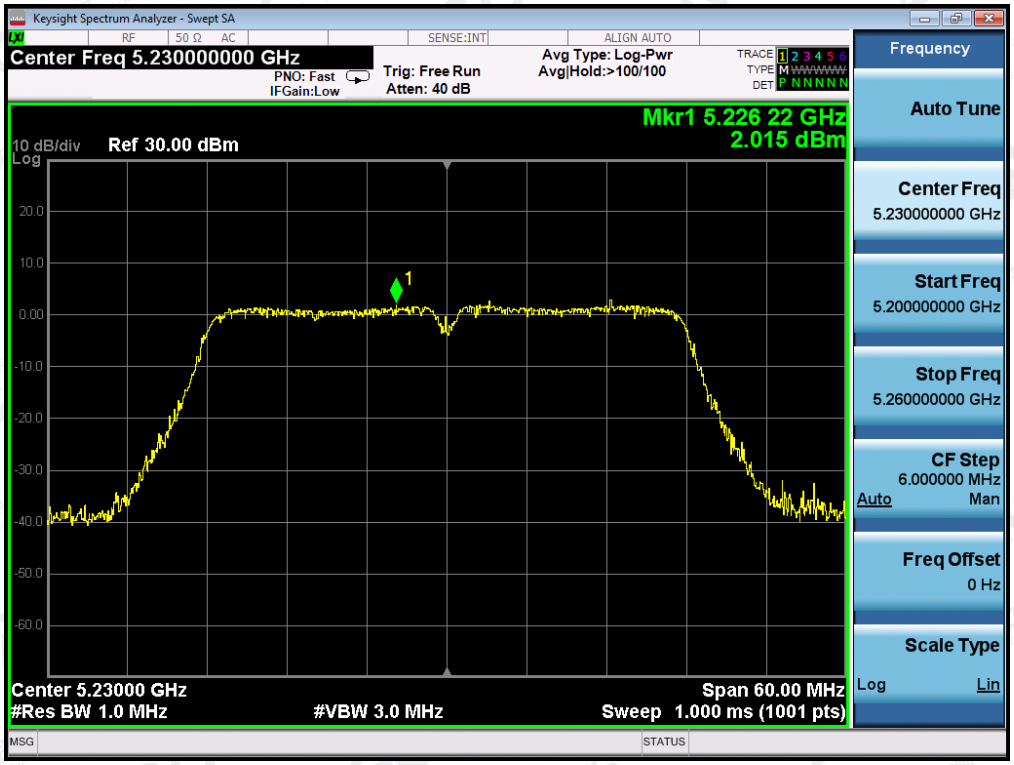
TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz



802.11ac40 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



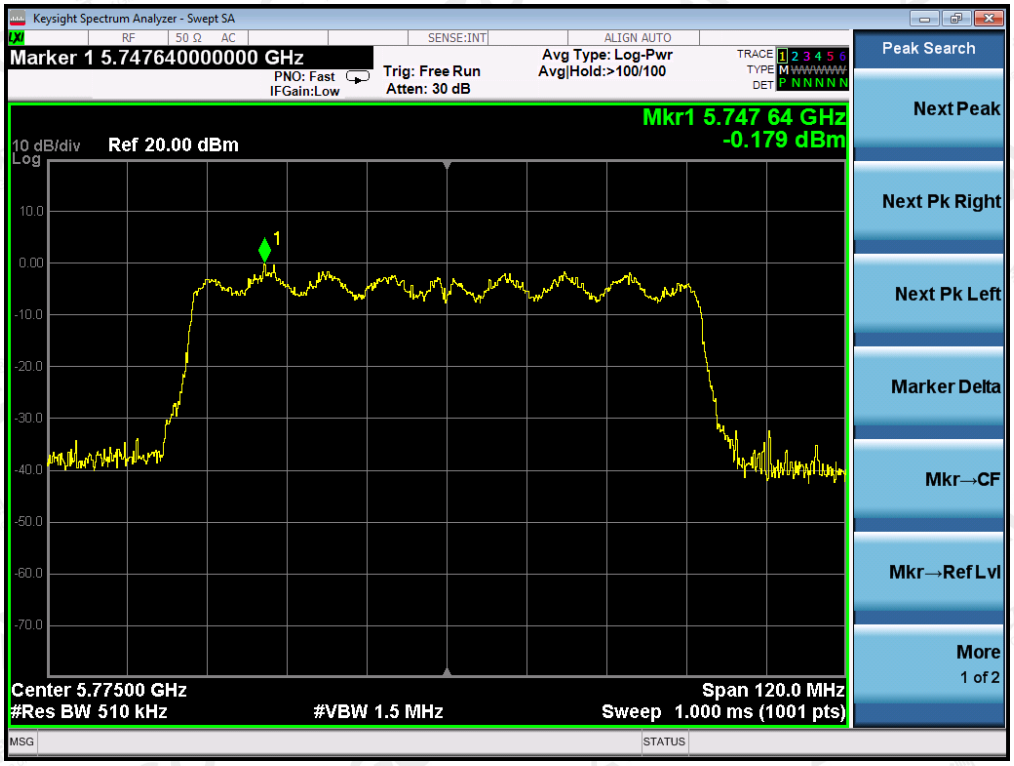
TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz

802.11ac80 TEST RESULT

TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



11. CONDUCTED SPURIOUS EMISSION

11.1. MEASUREMENT PROCEDURE

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 SPA Trace 1 Max hold, then View.

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

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

The same as described in section 8.2.

11.3. MEASUREMENT EQUIPMENT USED

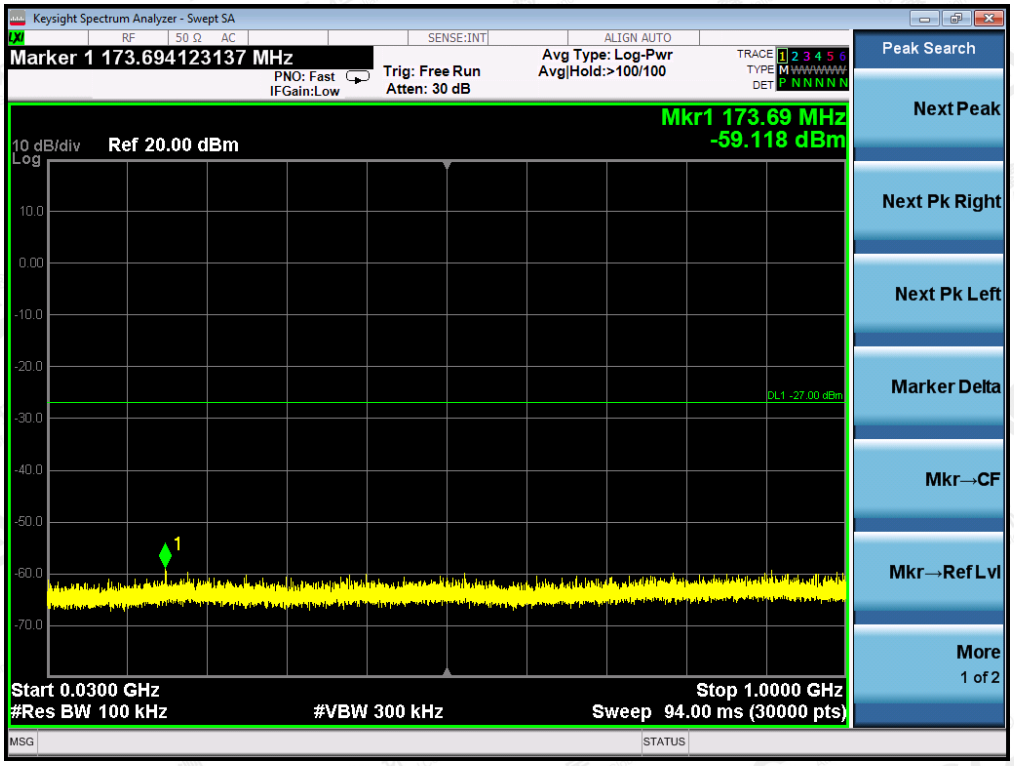
The same as described in section 6.

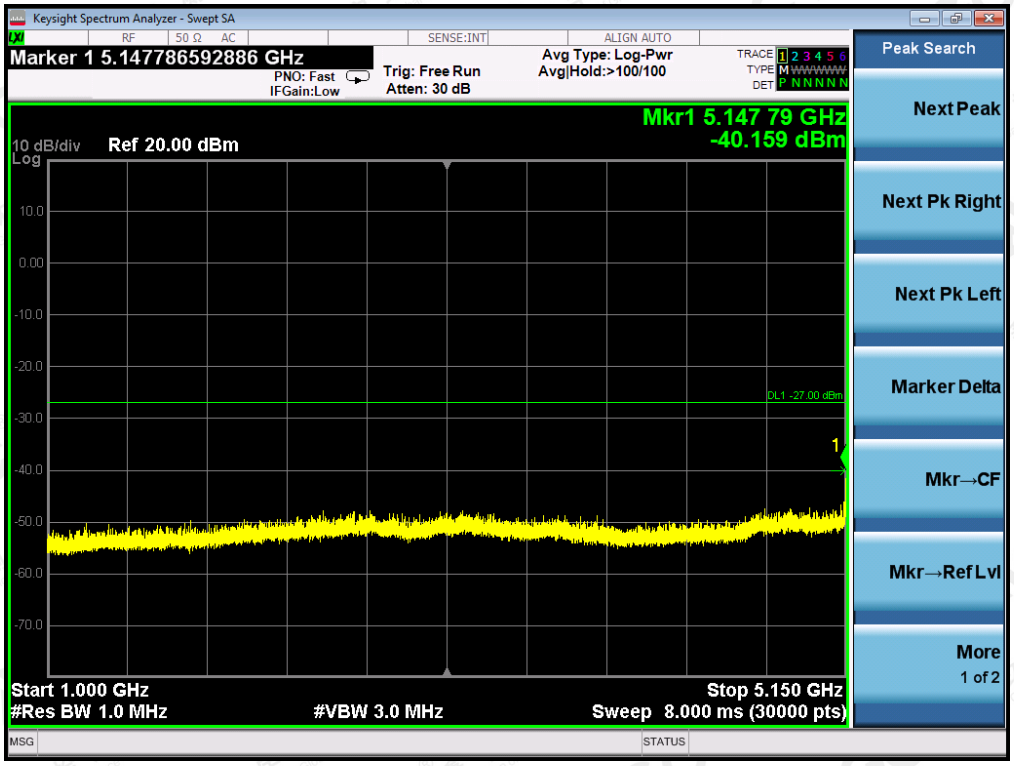
11.4. LIMITS AND MEASUREMENT RESULT

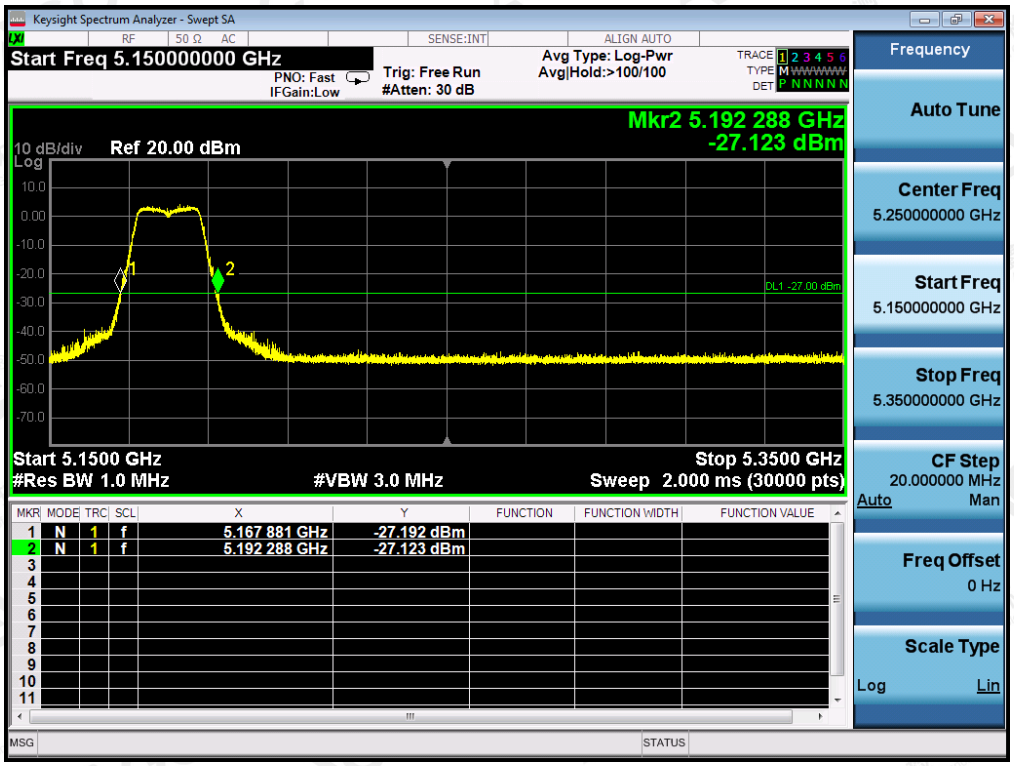
LIMITS AND MEASUREMENT RESULT		
Applicable Limits	**Measurement Result**	
	Test channel	**Criteria**
-27dBm/MHz	5150MHz-5250MHz	PASS
All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edgeincreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.	5725MHz-5850MHz	PASS

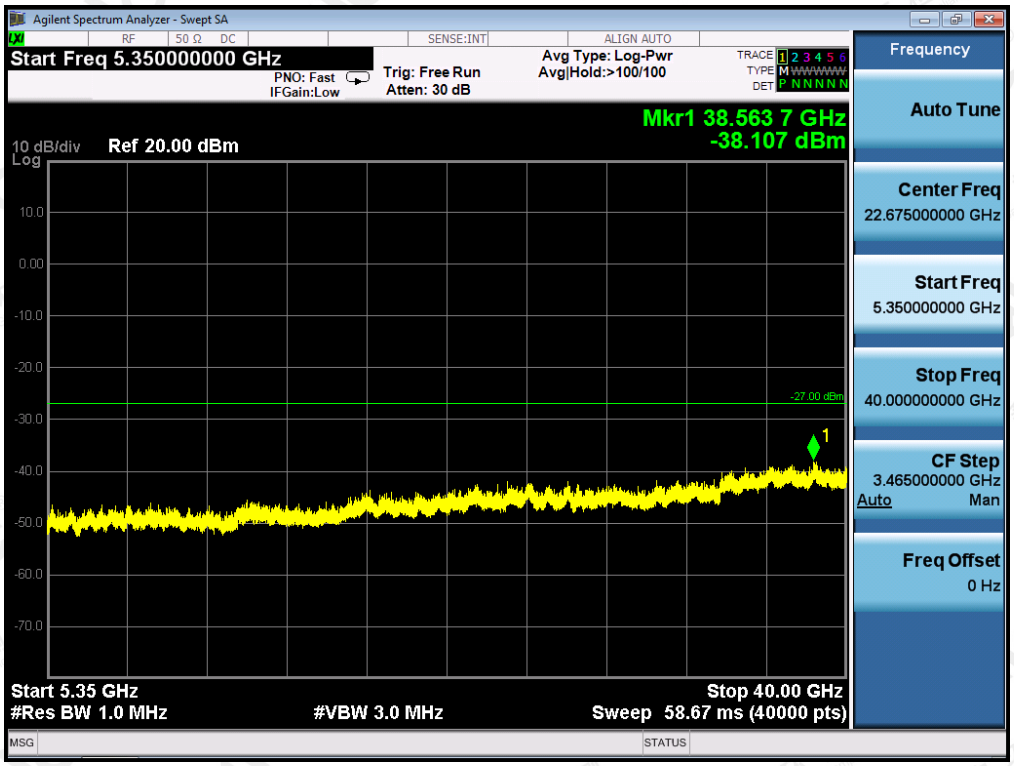
FOR 802.11A20 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz

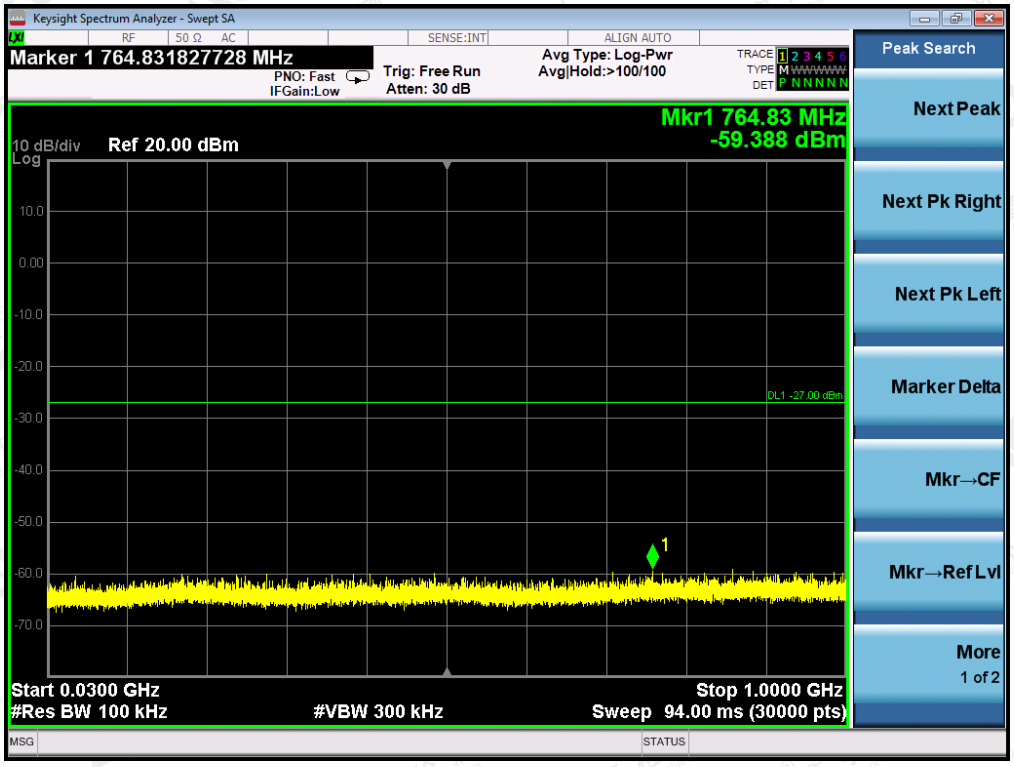


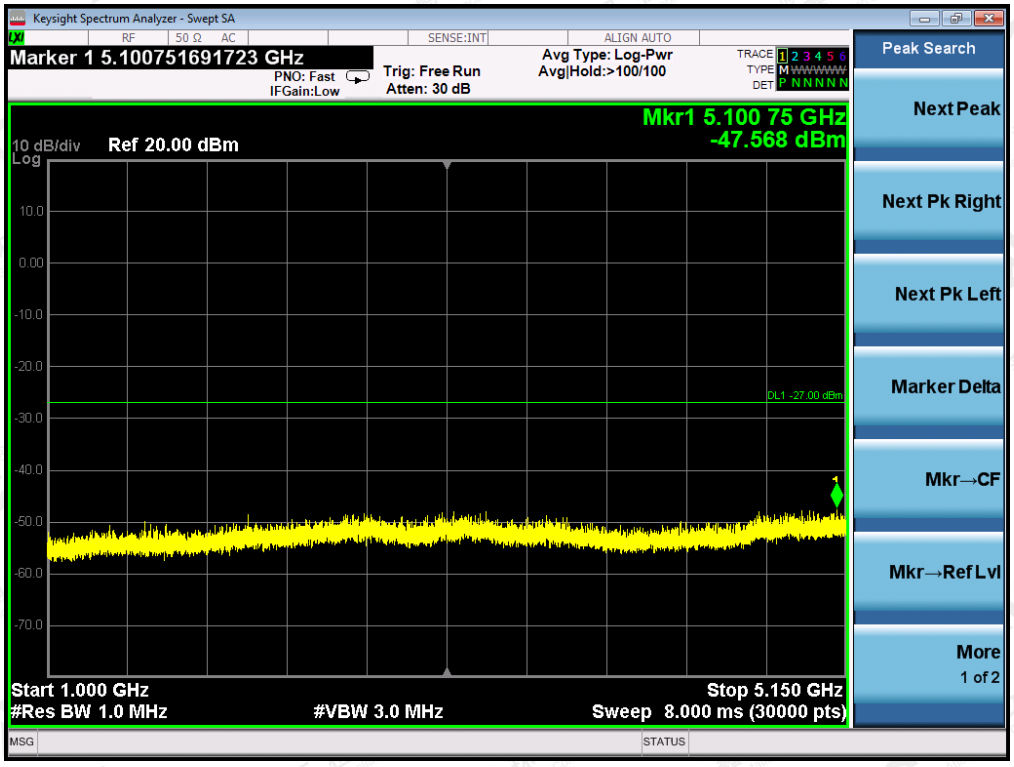


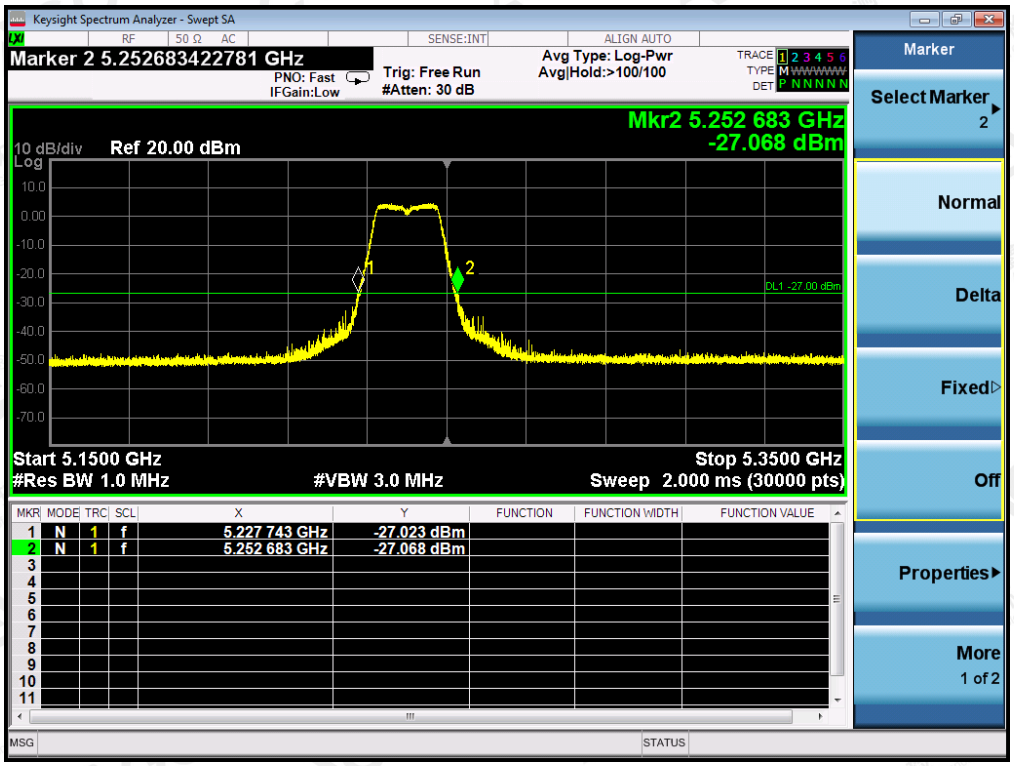


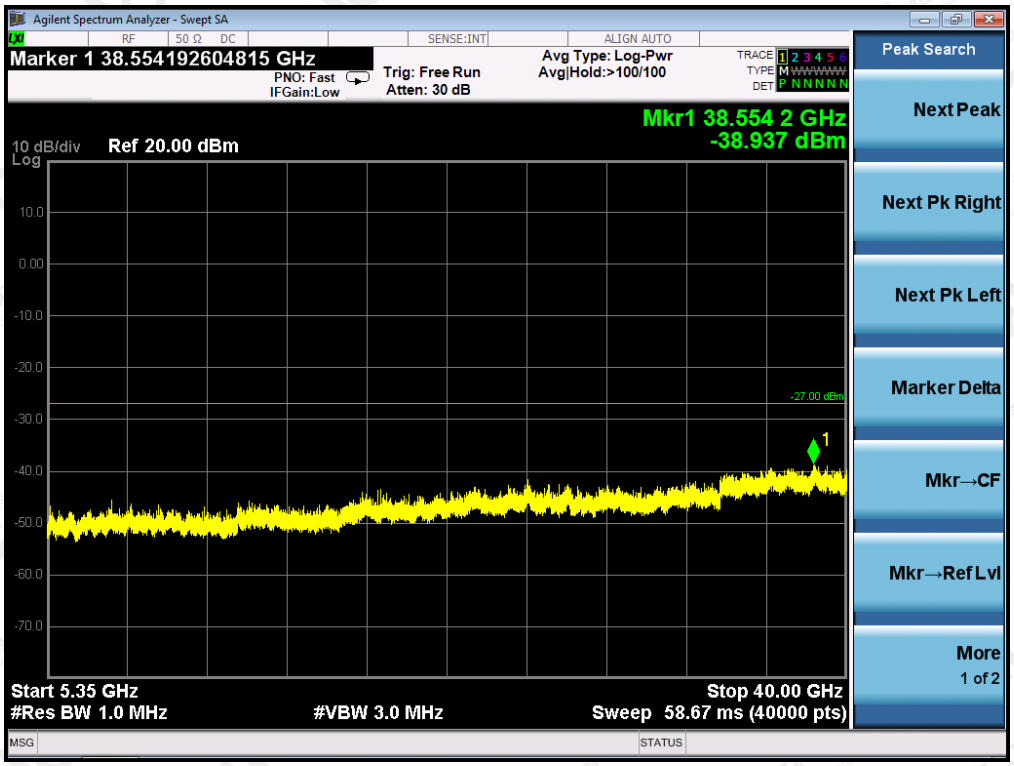


TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz

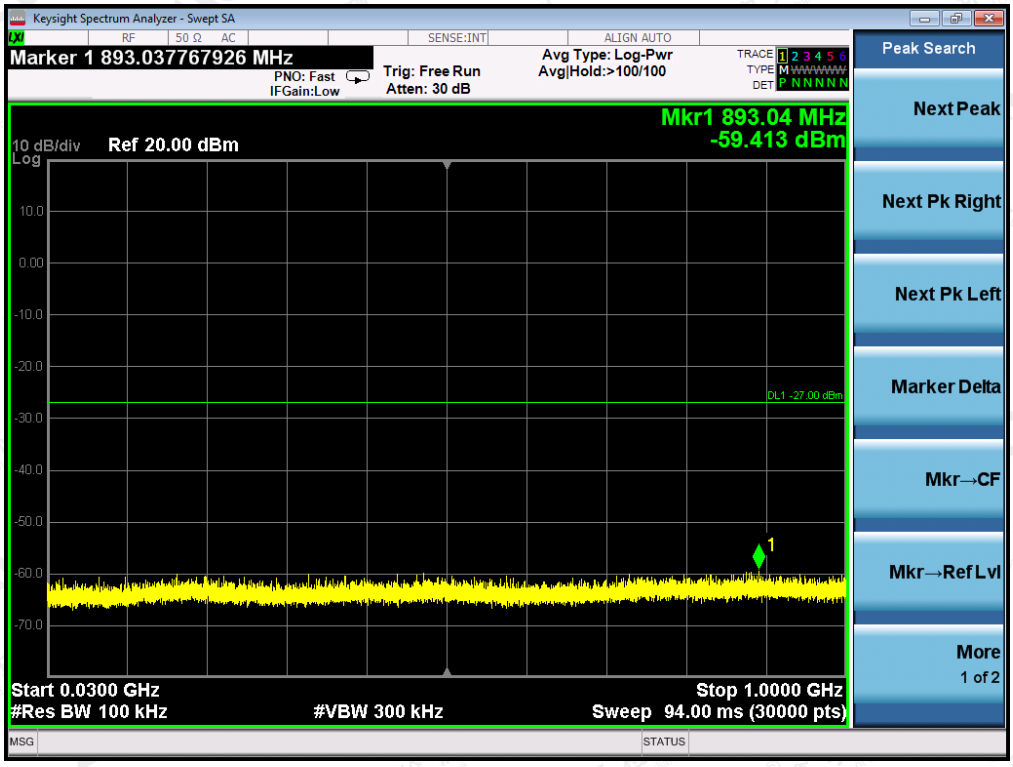


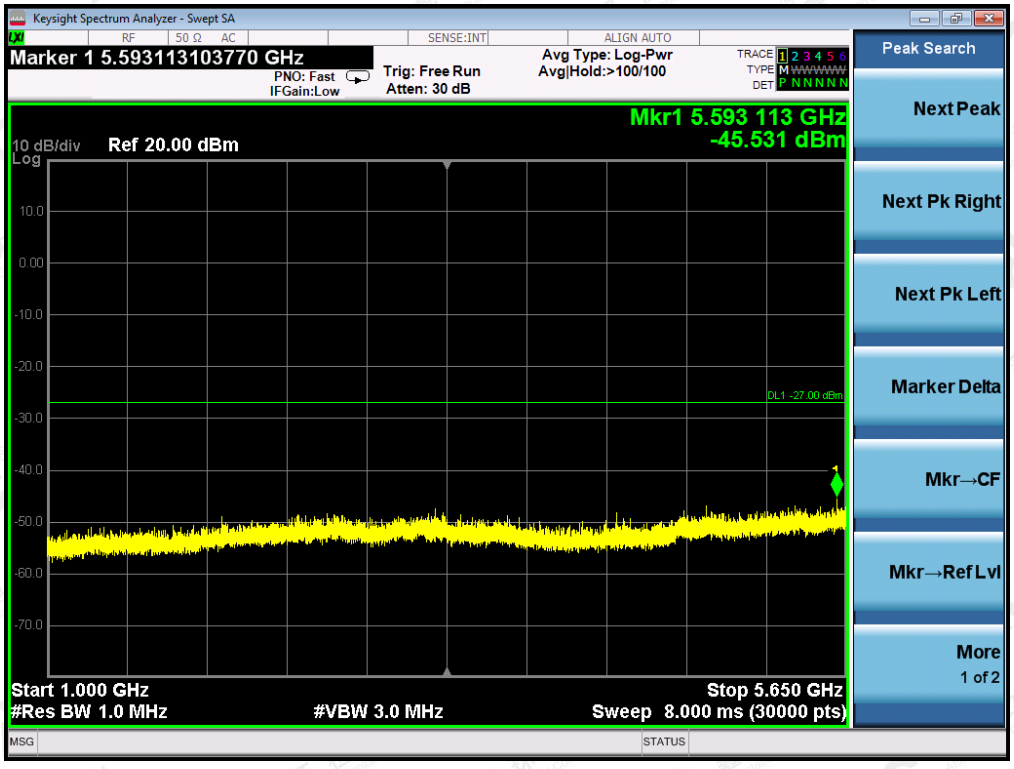


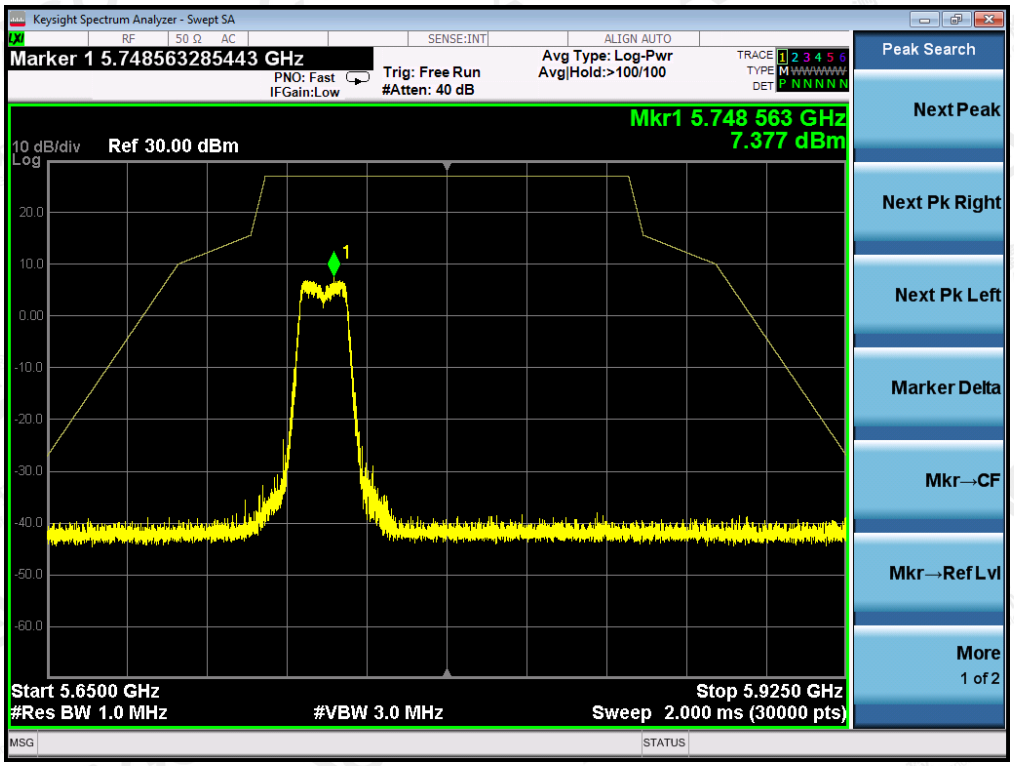


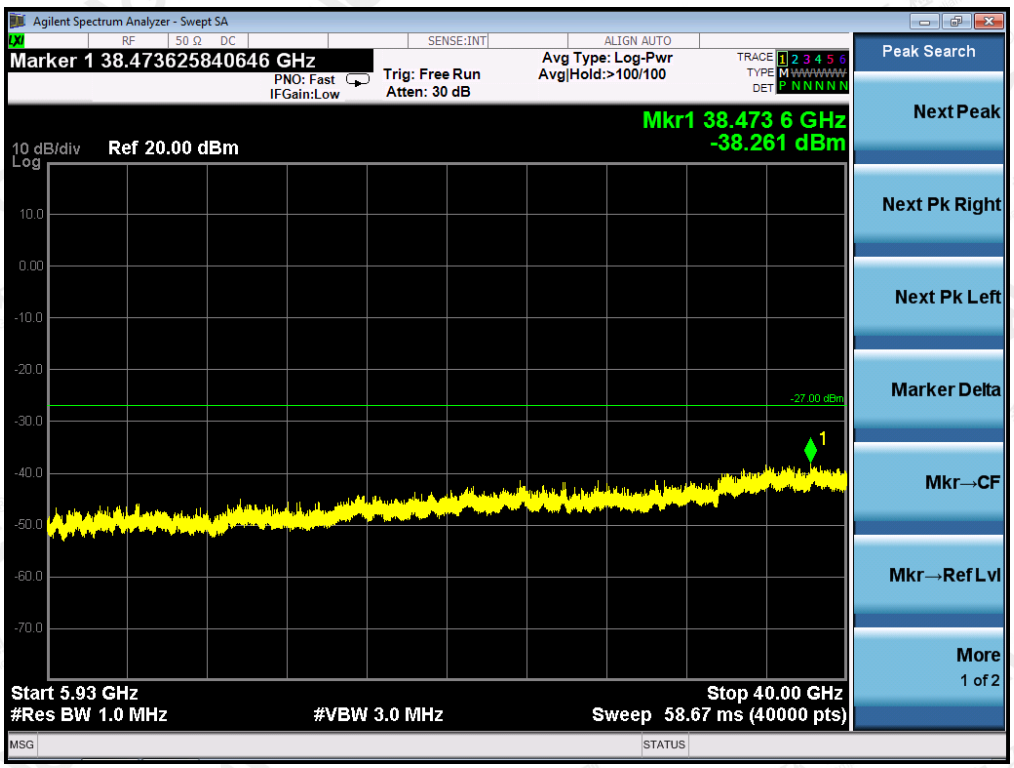


TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

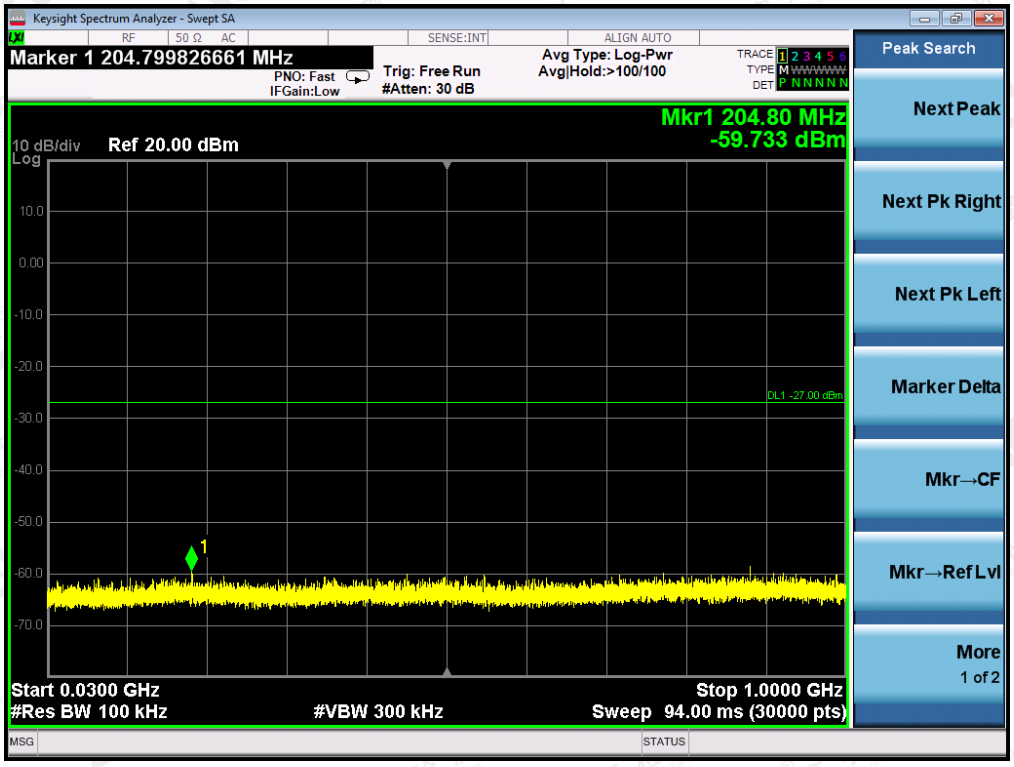


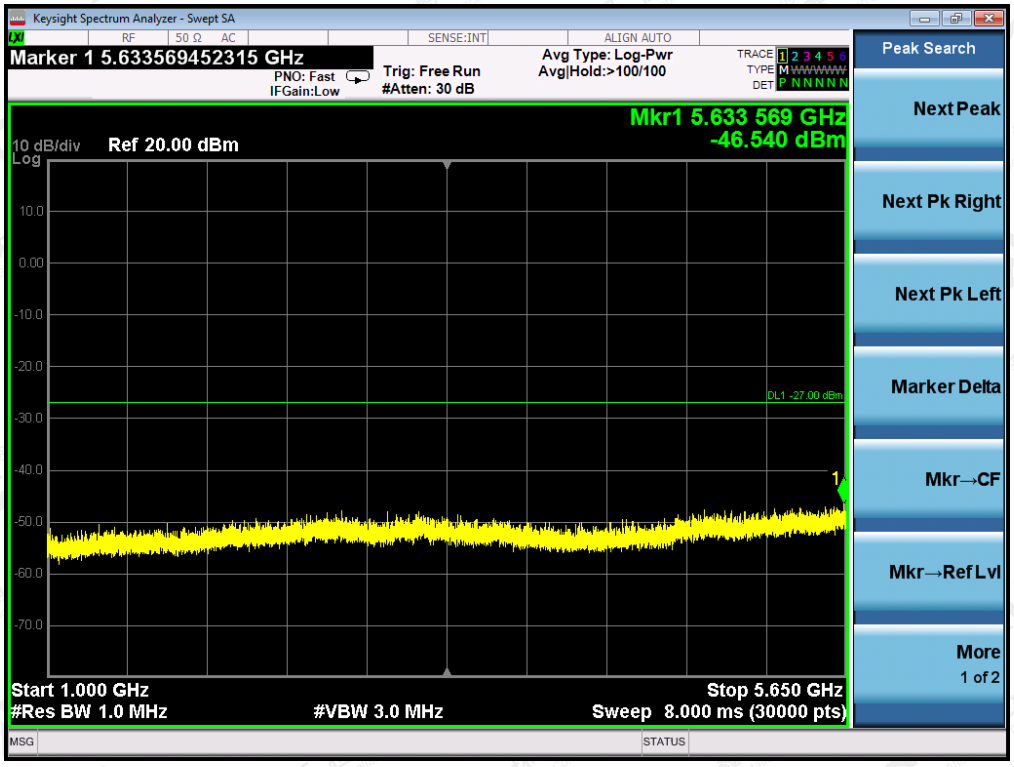


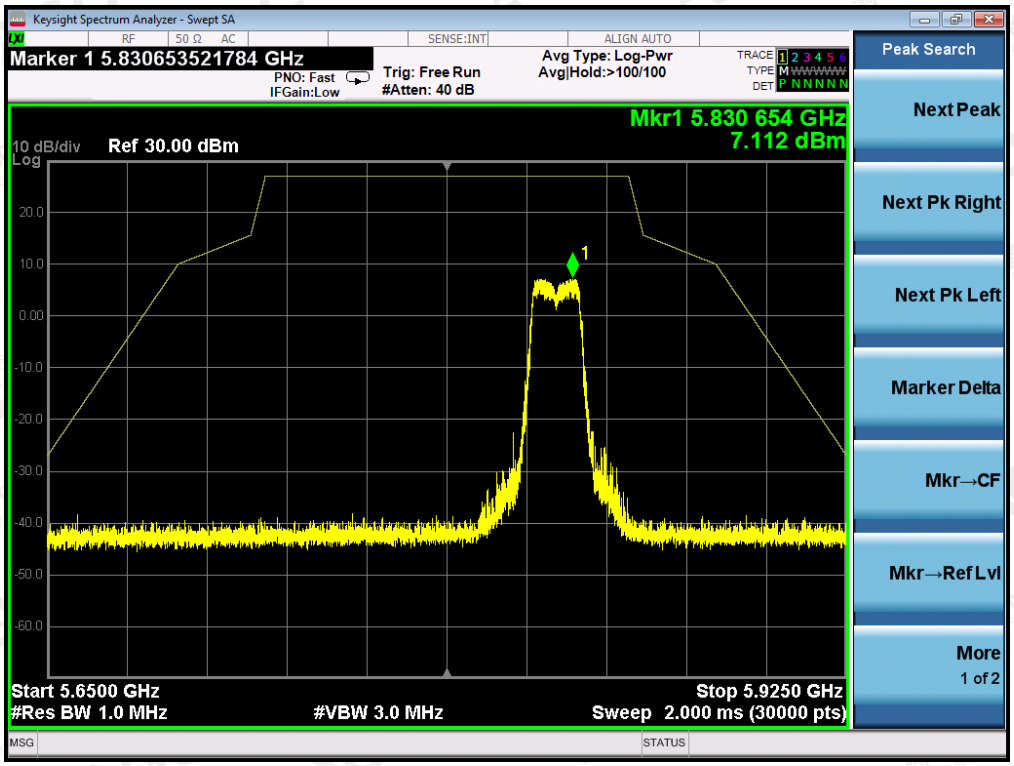


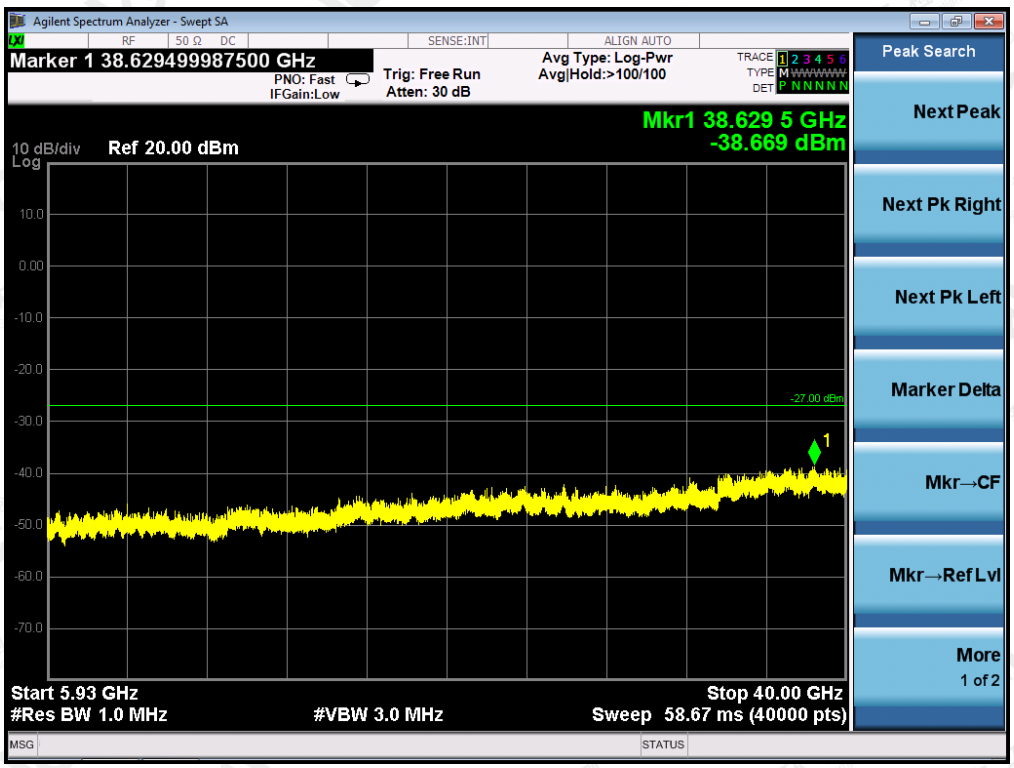


TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz



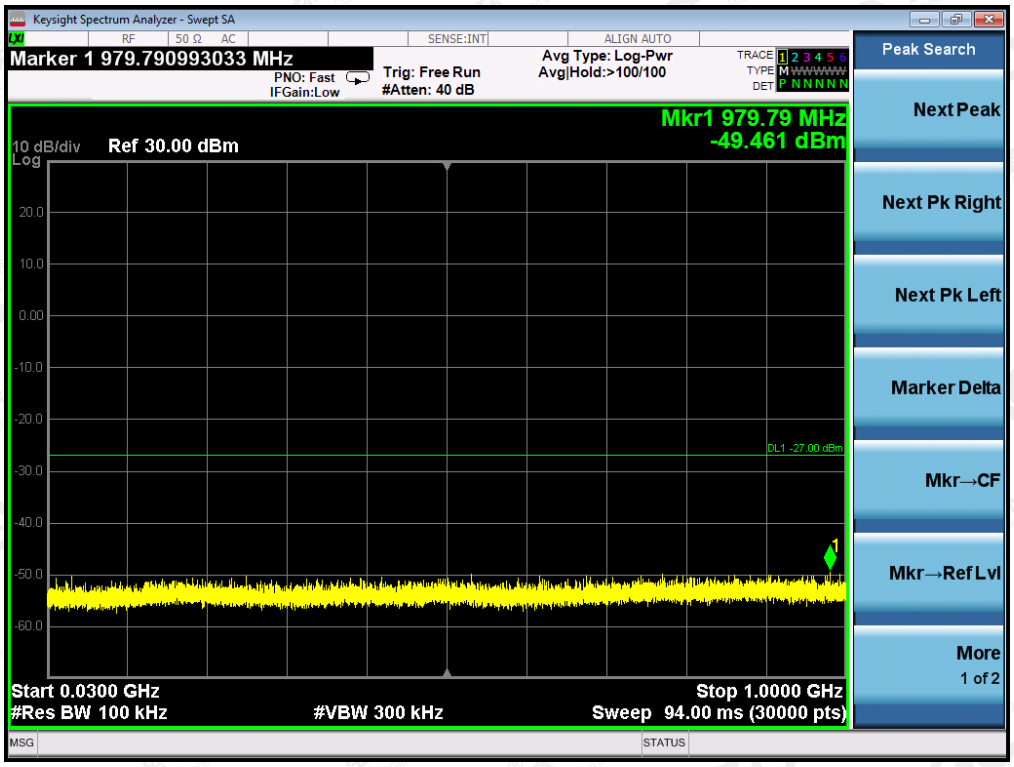


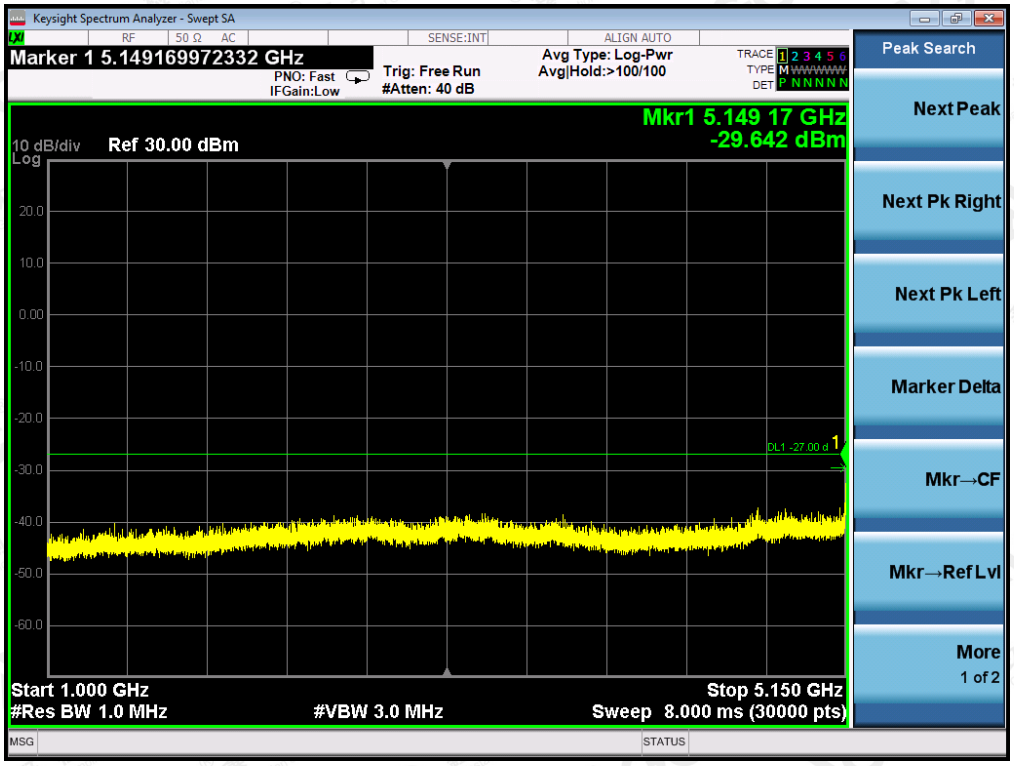


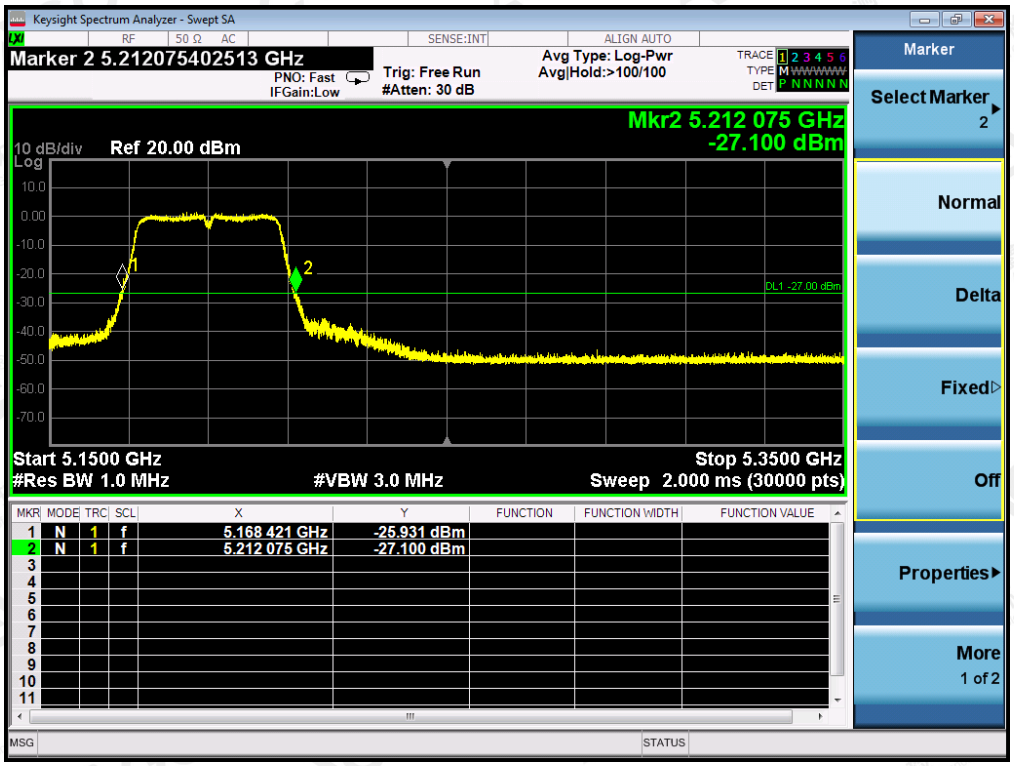


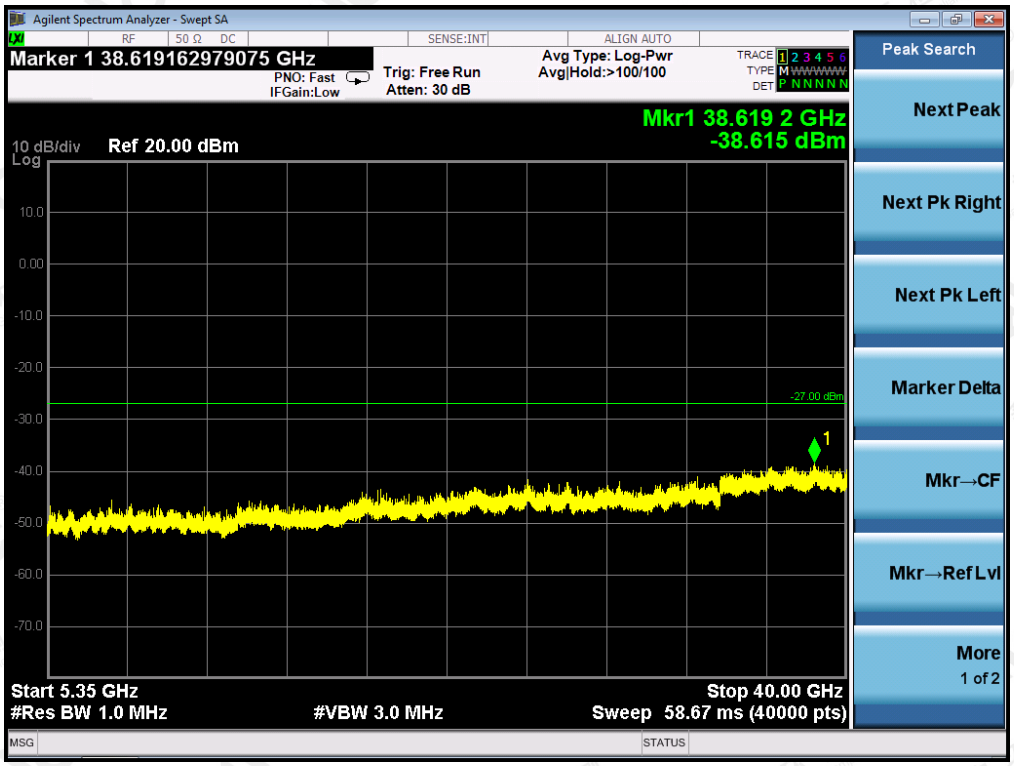
FOR 802.11N40 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz









TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz