
FCC Test Report

Report No.: AGC15026221002FE06

FCC ID : 2A87G-MGWIFIDIY4K
APPLICATION PURPOSE : Original Equipment
PRODUCT DESIGNATION : Do it Yourself WiFi DIY 4K Camera Kit
BRAND NAME : N/A
MODEL NAME : MGWIFIDIY4K, WIFIDIY4KNVKIT, BB4KWIFI, BB4KNE
APPLICANT : MiniGadgets, Inc
DATE OF ISSUE : Nov. 21, 2022
STANDARD(S) : FCC Part 15.407
TEST PROCEDURE(S) : KDB 789033 D02 v02r01
REPORT VERSION : V1.0

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Nov. 21, 2022	Valid	Initial Release

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1. VERIFICATION OF CONFORMITY

Applicant	MiniGadgets, Inc
Address	562 Wylie Road, Suite #2, Marietta, GA 30067, United States
Manufacturer	Shenzhen Fuvision Electronics Company Limited
Address	101 No. 41, Xinyuan Industrial Zone, Guxing Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China 518100
Factory	Shenzhen Fuvision Electronics Company Limited
Address	101 No. 41, Xinyuan Industrial Zone, Guxing Community, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China 518100
Product Designation	Do it Yourself WiFi DIY 4K Camera Kit
Brand Name	N/A
Test Model	MGWIFIDIY4K
Series Model	WIFIDIY4KNVKIT, BB4KWIFI, BB4KNE
Declaration of Difference	All the same except the model name and the shell
Date of receipt of test item	Oct. 26,2022
Date of test	Oct. 26,2022 to Nov. 21, 2022
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



Alan Duan
(Project Engineer)

Nov. 21,2022

Reviewed By



Calvin Liu
(Reviewer)

Nov. 21,2022

Approved By



Max Zhang
Authorized Officer

Nov. 21,2022

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2. GENERAL INFORMATION

2.1. PRODUCT DESCRIPTION

The EUT is designed as "Do it Yourself WiFi DIY 4K Camera Kit". 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

Equipment Type	<input type="checkbox"/> Outdoor access points <input type="checkbox"/> Fixed P2P access points	<input type="checkbox"/> Indoor access points <input checked="" type="checkbox"/> Client devices
Operation Frequency	<input type="checkbox"/> U-NII 1:5150MHz~5250MHz <input type="checkbox"/> U-NII 2C:5470MHz~5725MHz	<input type="checkbox"/> U-NII 2A: 5250MHz~5350MHz <input checked="" type="checkbox"/> U-NII 3: 5725MHz~5850MHz
DFS Design Type	<input type="checkbox"/> Master <input type="checkbox"/> Slave with radar detection	<input checked="" type="checkbox"/> Slave without radar detection
TPC Function	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Test Frequency Range	For 802.11a/n-HT20-VHT20: 5745~5825MHz For 802.11n-HT40-VHT40: 5755~5795MHz	
Max Average Power	IEEE 802.11a: 10.06dBm; IEEE 802.11n(20): 9.30dBm; IEEE802.11n(40): 8.58dBm;	
Modulation	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM,128QAM)	
Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 300Mbps	
Number of channels	7 channels of U-NII-3 Band	
Hardware Version	V01	
Software Version	V3	
Antenna Designation	Dipole Antenna (Comply with requirements of the FCC part 15.203)	
Antenna Gain	3.17dBi	
Power Supply	DC 5V by adapter	

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2.2. TABLE OF CARRIER FREQUENCIES**For 5745~5825MHz:****5 channels are provided for 802.11a, 802.11n (HT20):**

Channel	Frequency	Channel	Frequency
149	5745 MHz	161	5805 MHz
153	5765 MHz	165	5825 MHz
157	5785 MHz	--	--

2 channels are provided for 802.11n (HT40):

Channel	Frequency	Channel	Frequency
151	5755 MHz	159	5795 MHz

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

This submittal(s) (test report) is intended for **FCC ID: 2A87G-MGWIFIDIY4K** 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 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	$U_c = \pm 2.7 \%$
Uncertainty of Occupied Channel Bandwidth	$U_c = \pm 2 \%$

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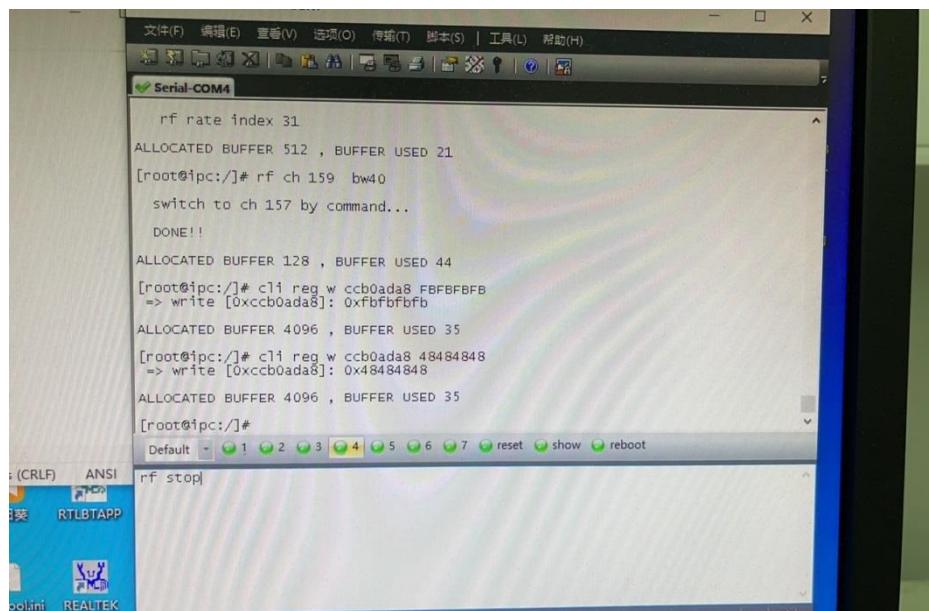
4. DESCRIPTION OF TEST MODES

Mode	Available channel	Tested channel	Modulation	Date rate (Mbps)
802.11a/n	149,153,157,161,165	149,157,165	OFDM	6Mbps/MCS0
802.11n	151,159	151,159	OFDM	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.

Software Setting



```

rf rate index 31
ALLOCATED BUFFER 512 , BUFFER USED 21
[root@ipc:/]# rf ch 159 bw40
switch to ch 157 by command...
DONE!!

ALLOCATED BUFFER 128 , BUFFER USED 44
[root@ipc:/]# cl1 reg w ccb0ada8 FBFBFBFB
=> write [0xcb0ada8]: 0xfbfbfbfb

ALLOCATED BUFFER 4096 , BUFFER USED 35
[root@ipc:/]# cl1 reg w ccb0ada8 48484848
=> write [0xcb0ada8]: 0x48484848

ALLOCATED BUFFER 4096 , BUFFER USED 35
[root@ipc:/]#
Default [ 1 2 3 4 5 6 7 reset show reboot
rf stop

```

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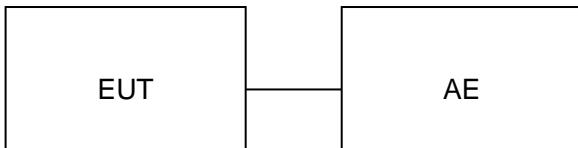
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5. SYSTEM TEST CONFIGURATION

5.1. CONFIGURATION OF EUT SYSTEM

Configure 1:



5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Model No.	ID or Specification	Remark
1	Do it Yourself WiFi DIY 4K	MGWIFIDIY4K	2A87G-MGWIFIDIY4K	EUT
2	Control Box	N/A	N/A	Accessories
3	Adapter	HW-050200C01	N/A	Accessories
4	Charger line	N/A	0.6m unshielded	Accessories

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	Mar. 28, 2022	Mar. 27, 2023
LISN	R&S	ESH2-Z5	100086	Jun. 08, 2022	Jun. 07, 2023
Test software	FARA	EZ-EMC	Ver.AGC-CON03A1	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	Mar. 28, 2022	Mar. 27, 2023
EXA Signal Analyzer	Agilent	N9010A	MY53470504	Nov. 17, 2021	Nov. 16, 2022
Power sensor	Agilent	U2021XA	MY54110007	Mar. 22, 2022	Mar. 21, 2024
5GHz Fliter	EM Electronics	5150-5880MHz	N/A	Aug. 04, 2022	Aug. 03, 2024
Attenuator	ZHINAN	E-002	N/A	Oct. 31, 2021	Oct. 30, 2023
Horn antenna	SCHWARZBECK	BBHA 9170	#768	Mar. 12, 2022	Mar. 11, 2024
Active loop antenna (9K-30MHz)	ZHINAN	ZN30900C	18051	Apr. 23, 2021	Apr. 22, 2023
Double-Ridged Waveguide Horn	ETS LINDGREN	3117	00034609	Sep. 02, 2022	Sep. 01, 2024
Broadband Preamplifier	ETS LINDGREN	3117PA	00225134	Jan. 08, 2021	Jan. 07, 2023
ANTENNA	SCHWARZBECK	VULB9168	494	N/A	N/A
Test software	FARA	EZ-EMC	Ver.RA-03A	N/A	N/A

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7. MAXIMUM CONDUCTED OUTPUT POWER

7.1. MEASUREMENT PROCEDURE

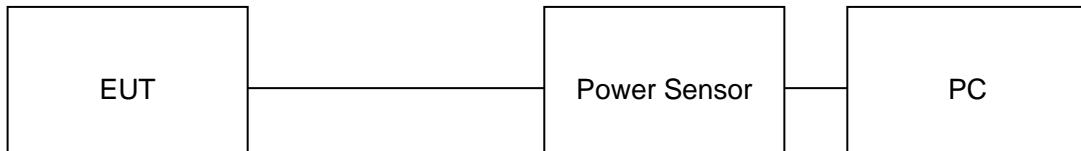
For average power test:

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 5.725-5.85 GHz				
Test Mode	Test Channel (MHz)	Average Power (dBm)	Limits (dBm)	Pass or Fail
802.11a	5745	10.03	24	Pass
	5785	10.06	24	Pass
	5825	9.68	24	Pass
802.11n20	5745	9.26	24	Pass
	5785	9.30	24	Pass
	5825	8.77	24	Pass
802.11n40	5755	8.58	24	Pass
	5795	8.49	24	Pass

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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:

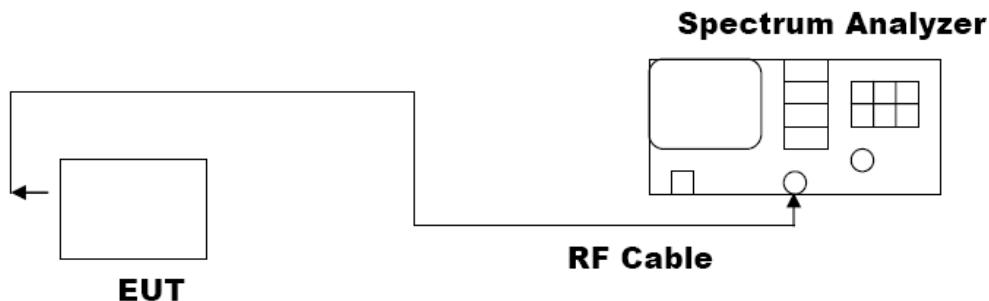
1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 1.5 to 5 times the OBW, centered on a nominal channel
The nominal IF filter bandwidth (3 dB RBW) shall 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 DTS Bandwidth for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	99% Occupied Bandwidth (MHz)	DTS Bandwidth (MHz)	Limits (MHz)	Pass or Fail
802.11a	5745	16.721	16.348	0.5	Pass
	5785	16.728	16.358	0.5	Pass
	5825	16.777	16.352	0.5	Pass
802.11n20	5745	17.780	17.601	0.5	Pass
	5785	17.788	17.615	0.5	Pass
	5825	17.809	17.598	0.5	Pass
802.11n40	5755	36.194	35.728	0.5	Pass
	5795	36.206	35.699	0.5	Pass

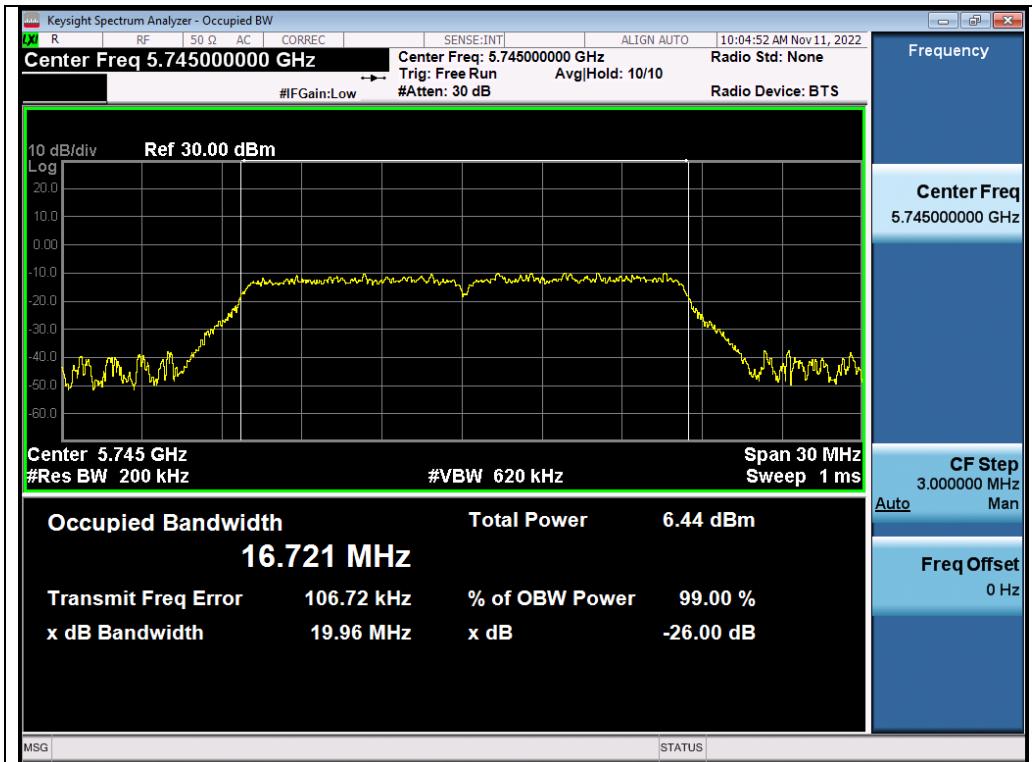
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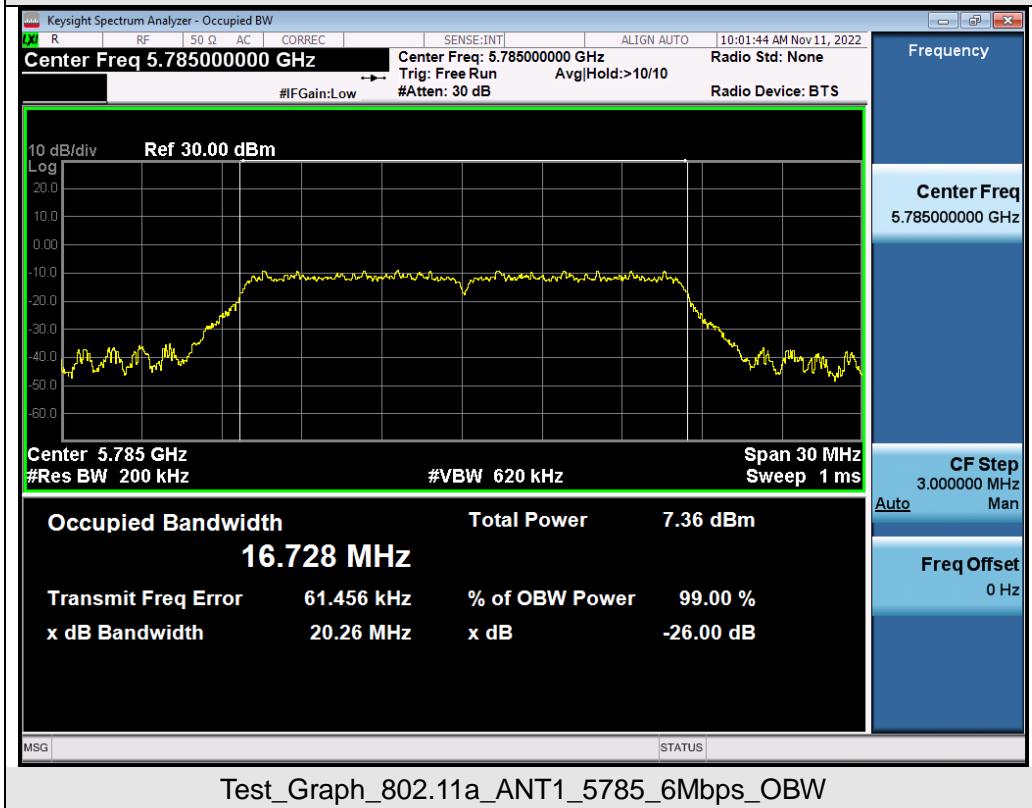
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Test Graphs of Occupied Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_OBW



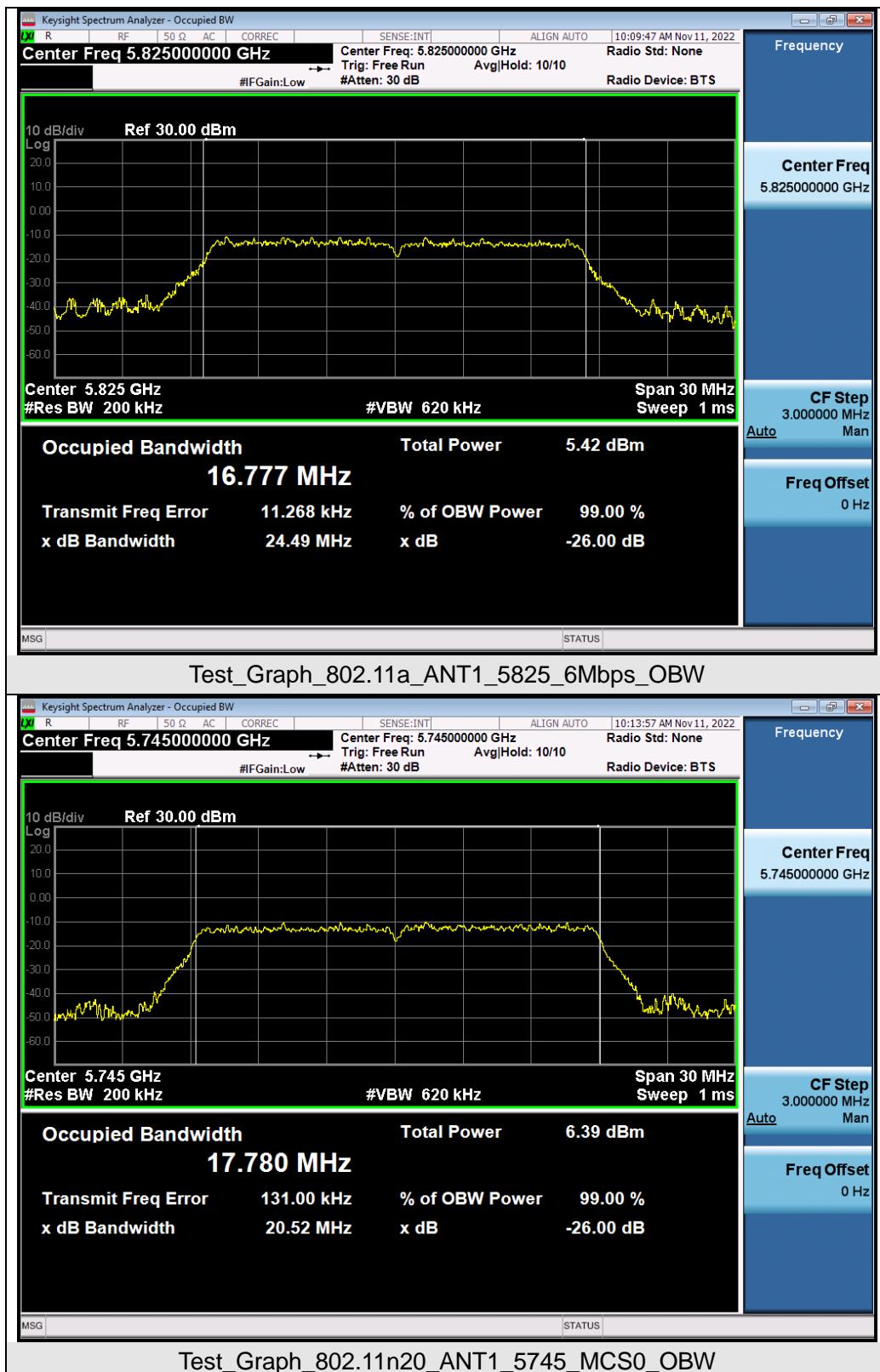
Test_Graph_802.11a_ANT1_5785_6Mbps_OBW

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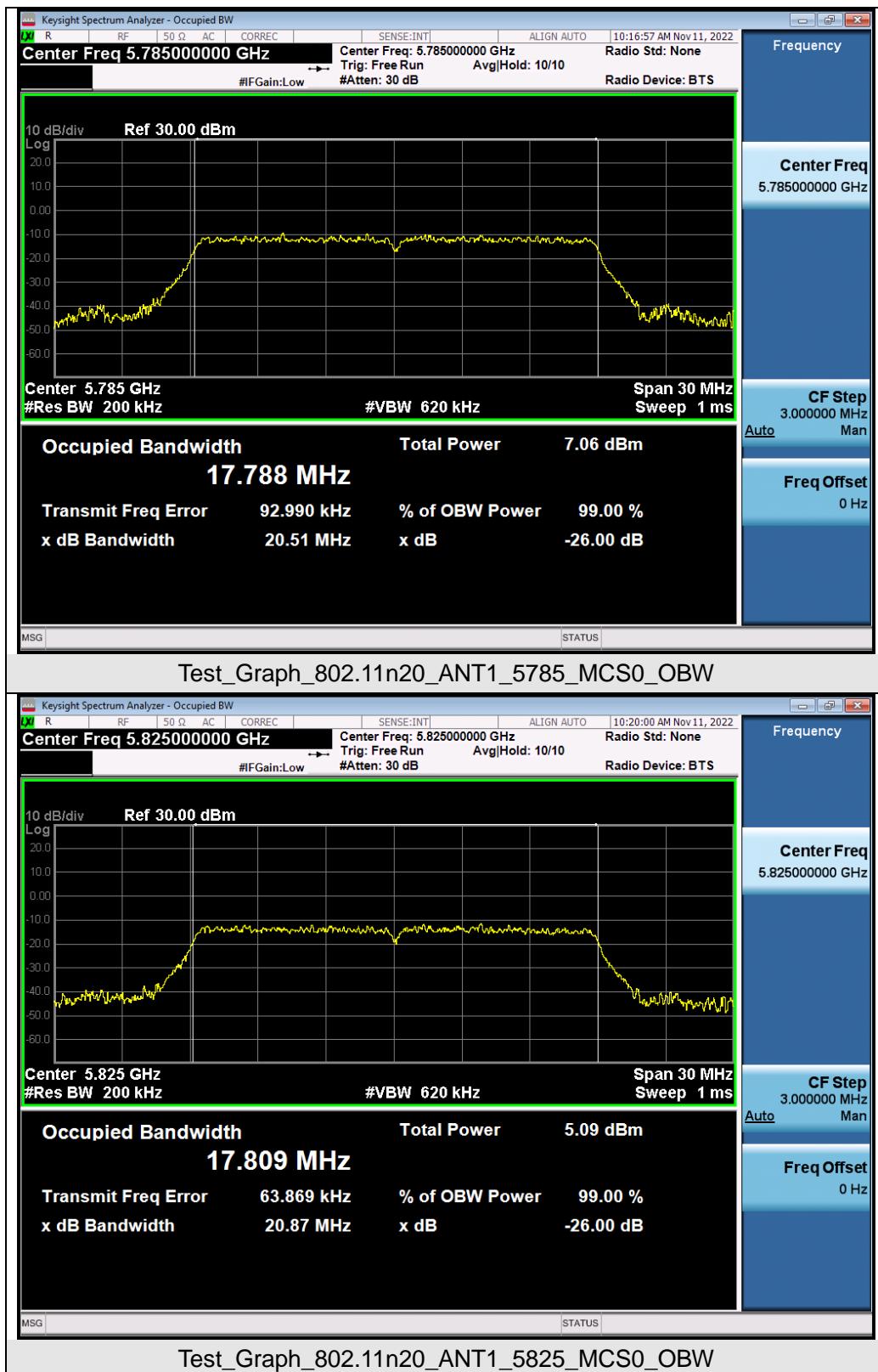


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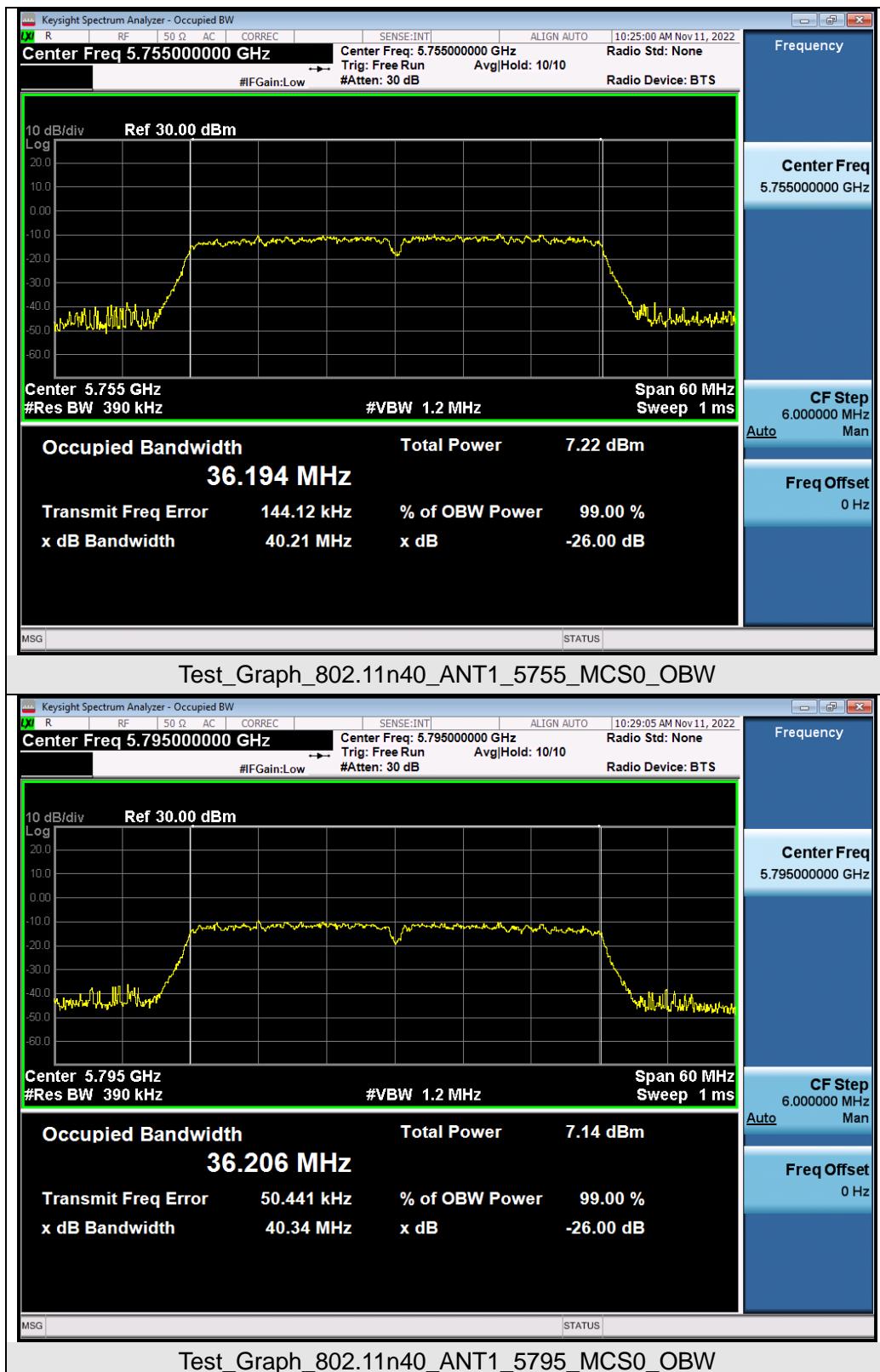


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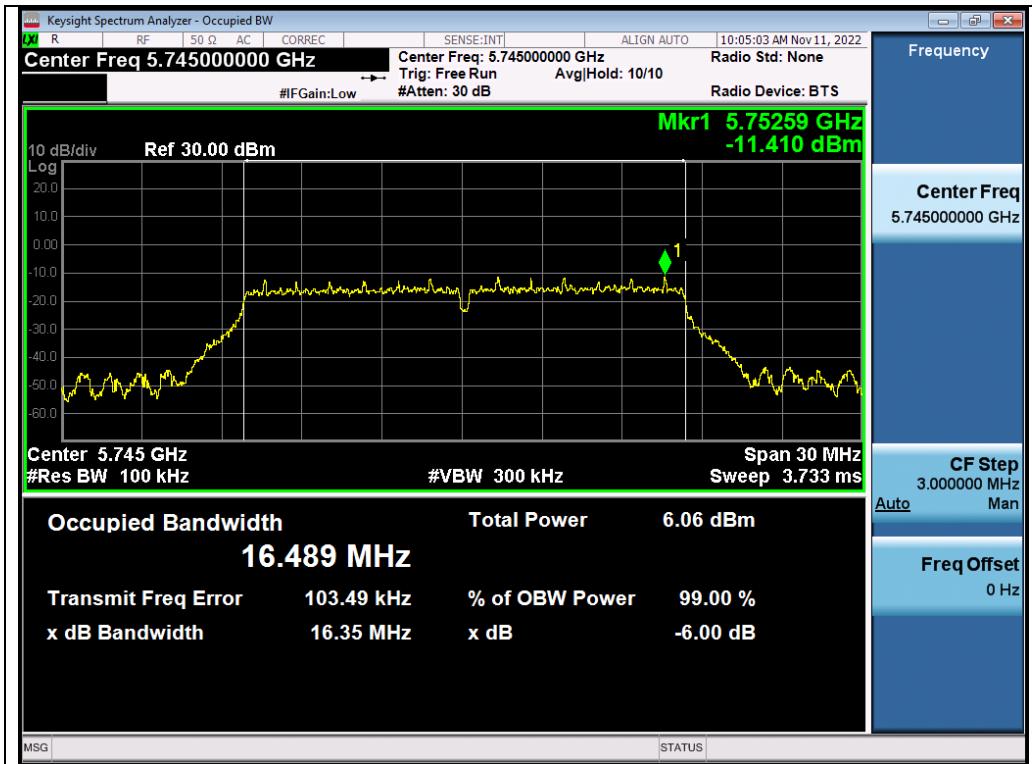
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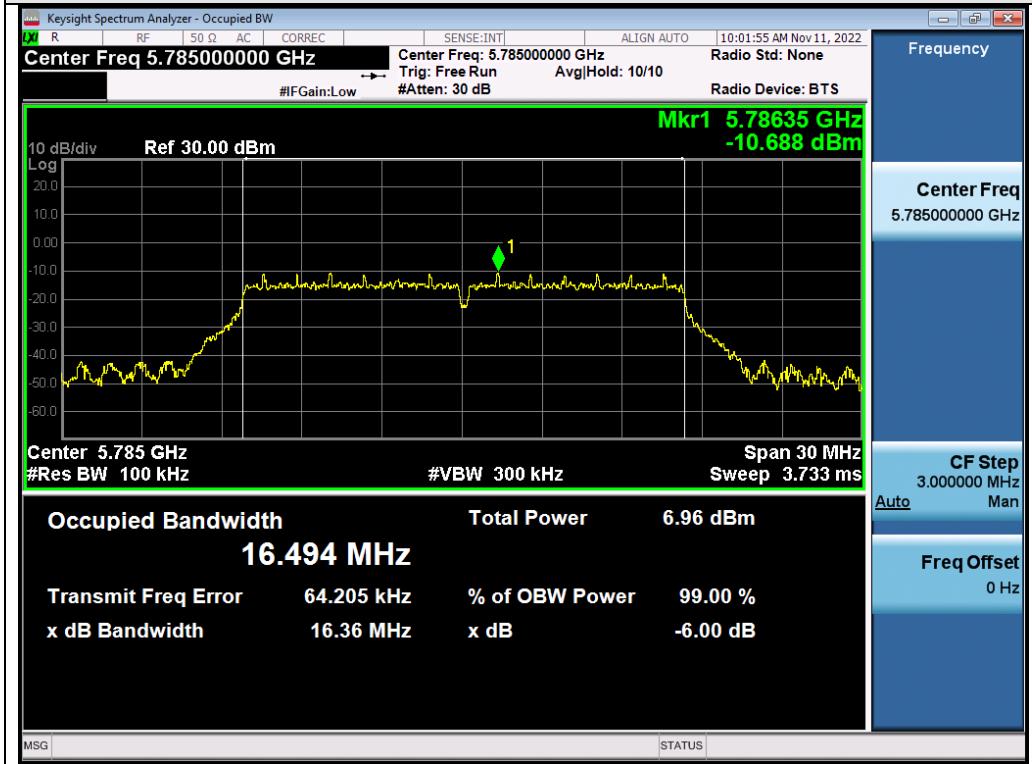
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Test Graphs of DTS Bandwidth for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_DTSBW



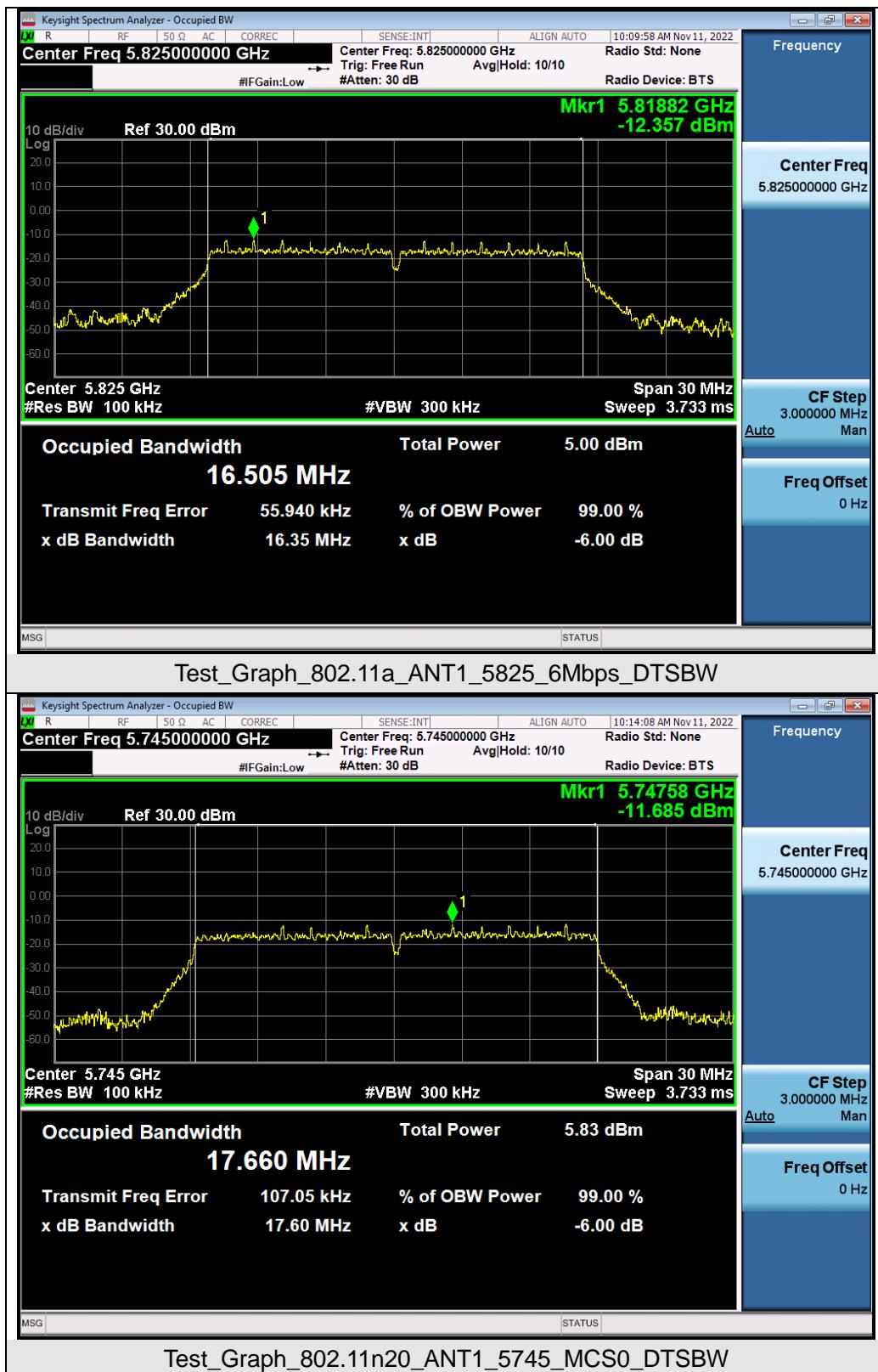
Test_Graph_802.11a_ANT1_5785_6Mbps_DTSBW

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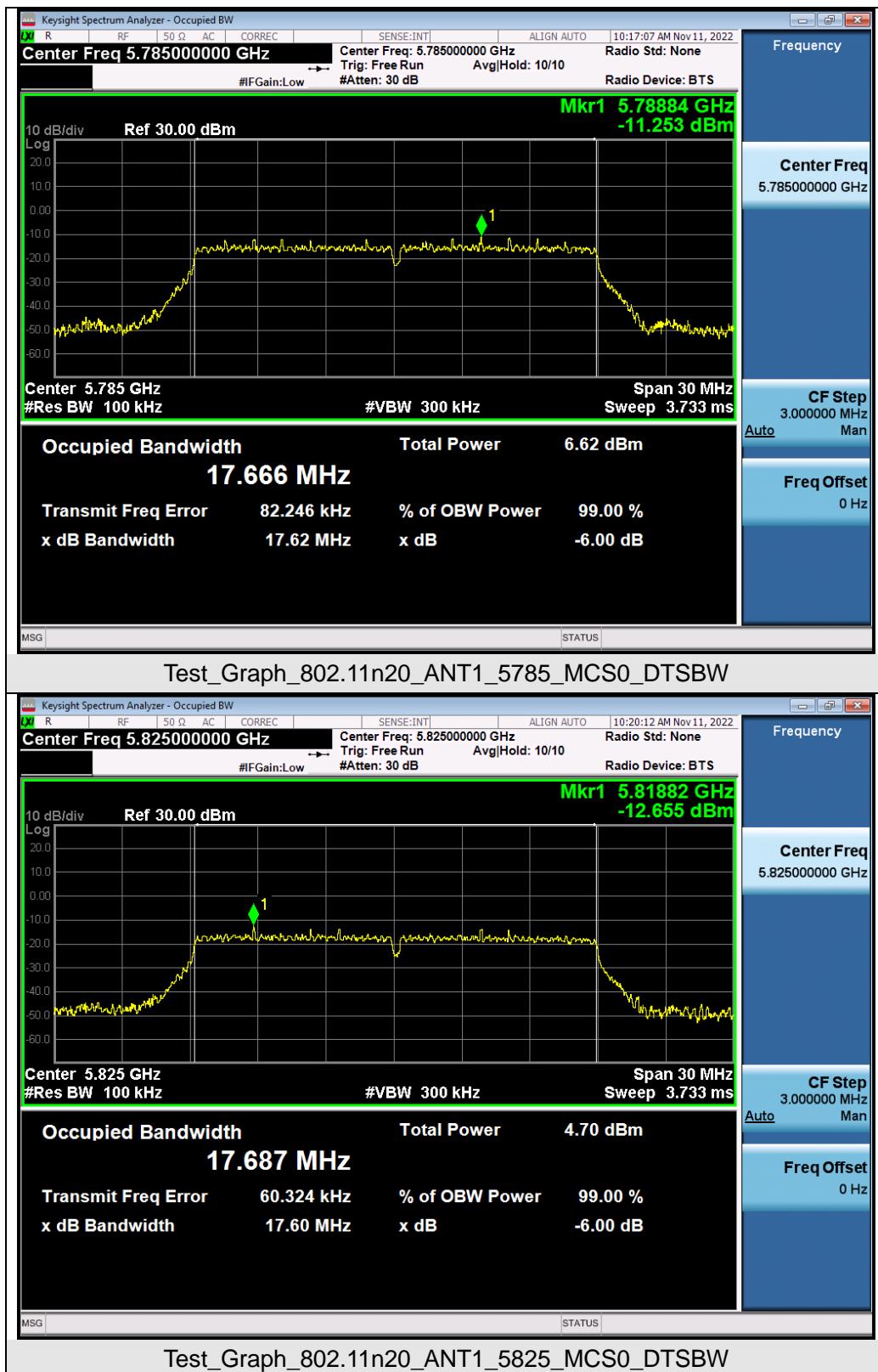


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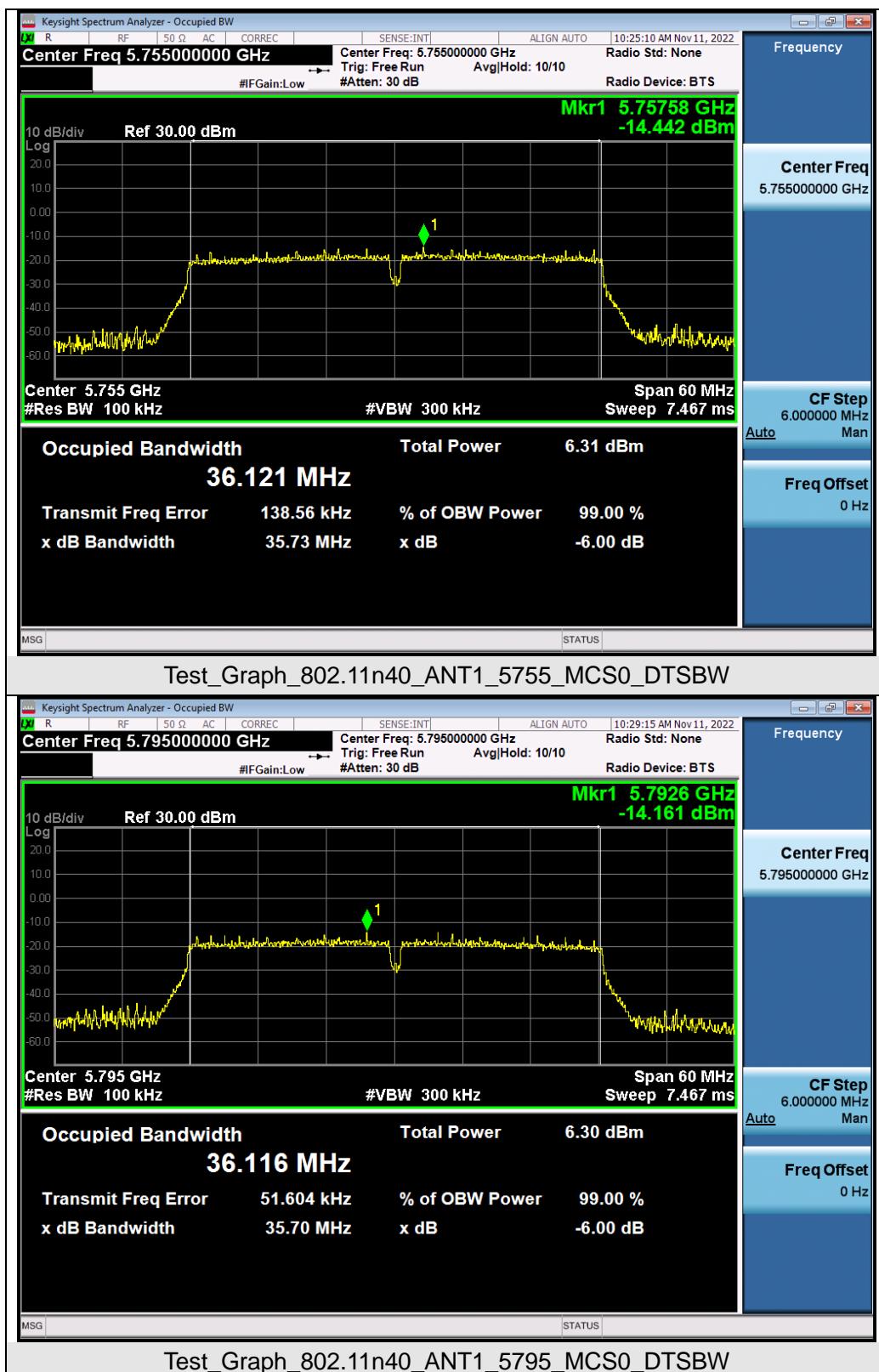


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9. MAXIMUM CONDUCTED OUTPUT AVERAGE POWER SPECTRAL DENSITY

9.1. MEASUREMENT PROCEDURE

Refer to KDB 789033 section F

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

Refer to Section 8.2.

9.3. MEASUREMENT EQUIPMENT USED

Refer to Section 6.

9.4. LIMITS AND MEASUREMENT RESULT

Test Data of Conducted Output Power Density for band 5.725-5.85 GHz					
Test Mode	Test Channel (MHz)	Average Power Density (dBm/500kHz)	Average Power Density (dBm/100kHz)	Limits (dBm/500kHz)	Pass or Fail
802.11a	5745	-2.982	-9.972	30	Pass
	5785	-3.200	-10.190	30	Pass
	5825	-3.355	-10.345	30	Pass
802.11n20	5745	-4.204	-11.194	30	Pass
	5785	-4.320	-11.310	30	Pass
	5825	-4.795	-11.785	30	Pass
802.11n40	5755	-7.837	-14.827	30	Pass
	5795	-7.867	-14.857	30	Pass

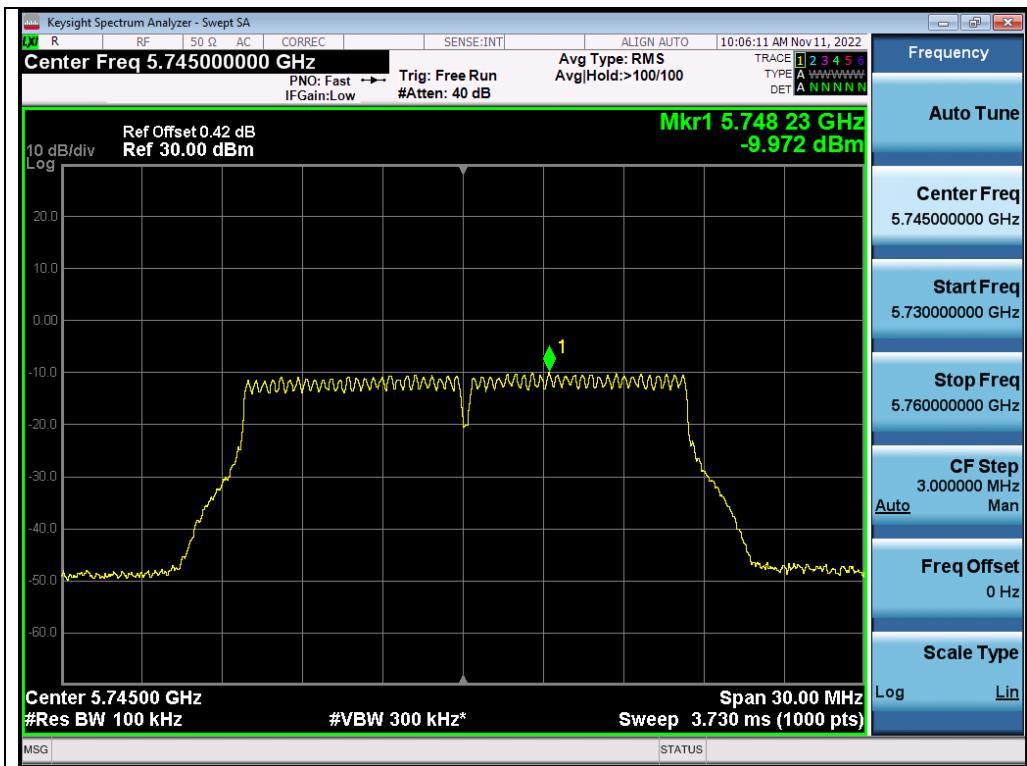
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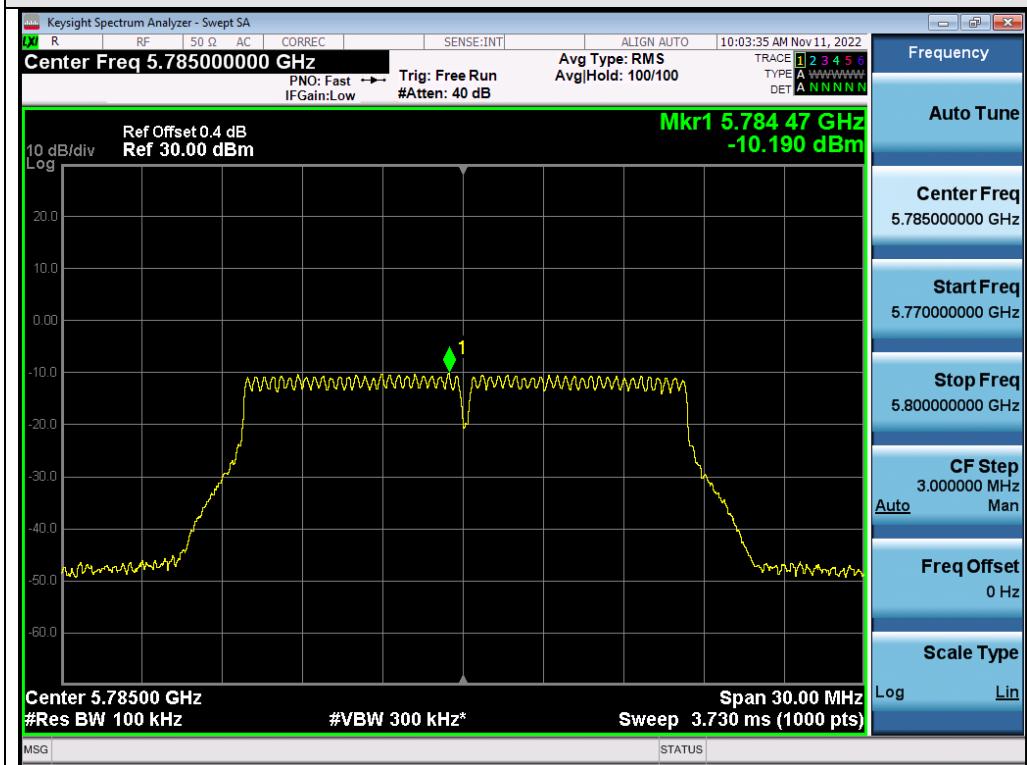
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Test Graphs of Conducted Output Power Spectral Density for band 5.725-5.85 GHz



Test_Graph_802.11a_ANT1_5745_6Mbps_PSD



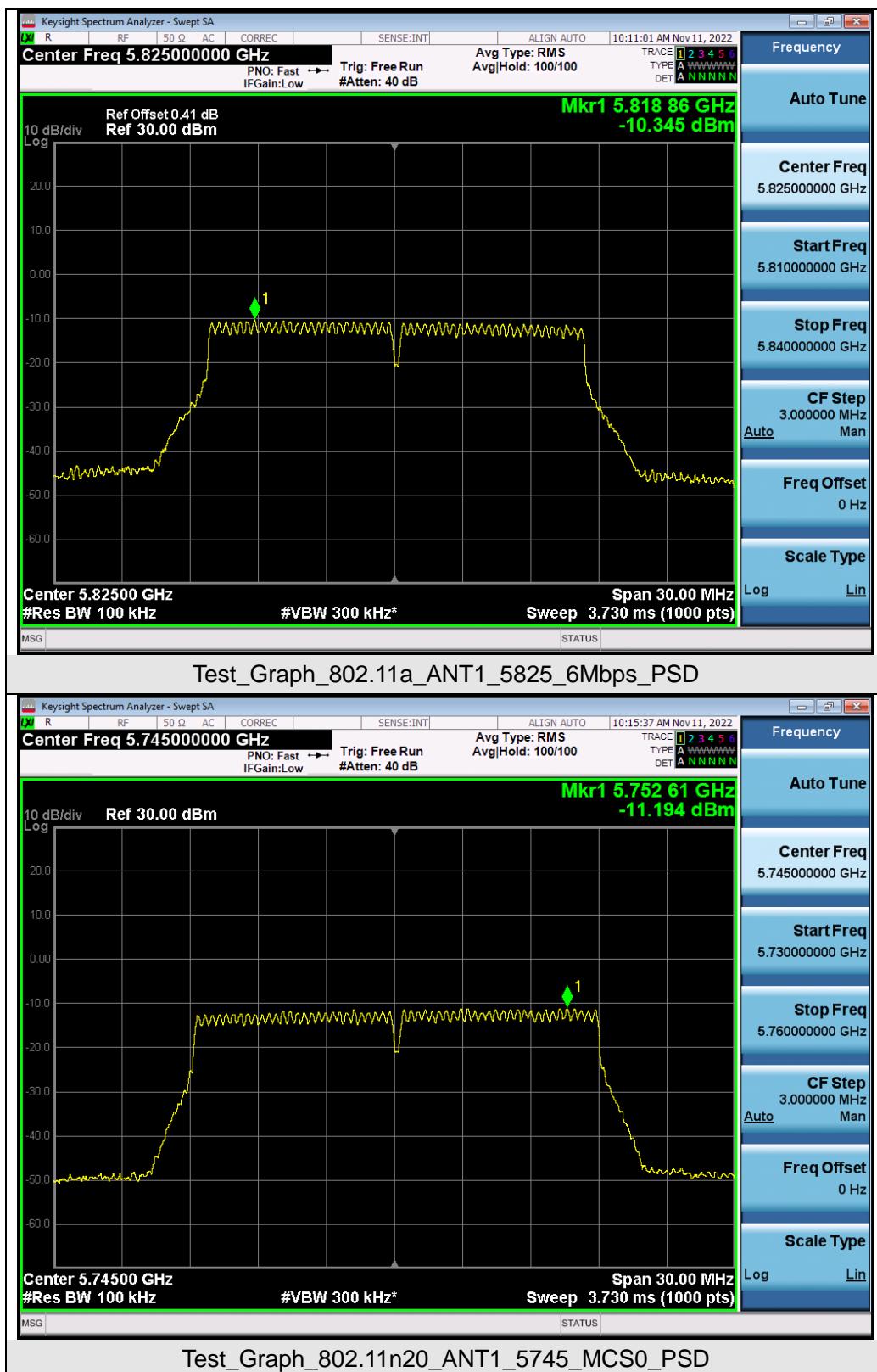
Test_Graph_802.11a_ANT1_5785_6Mbps_PSD

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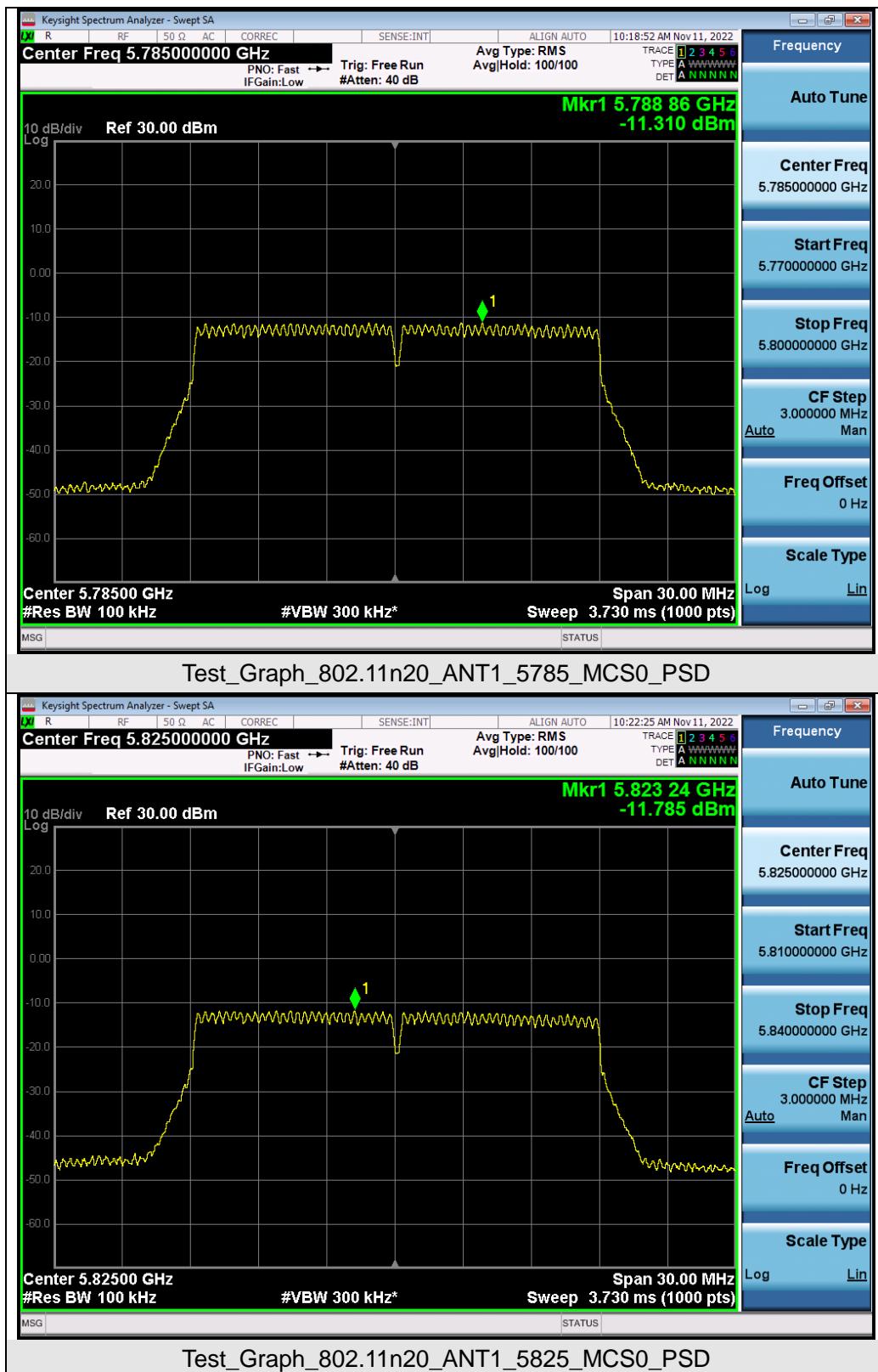


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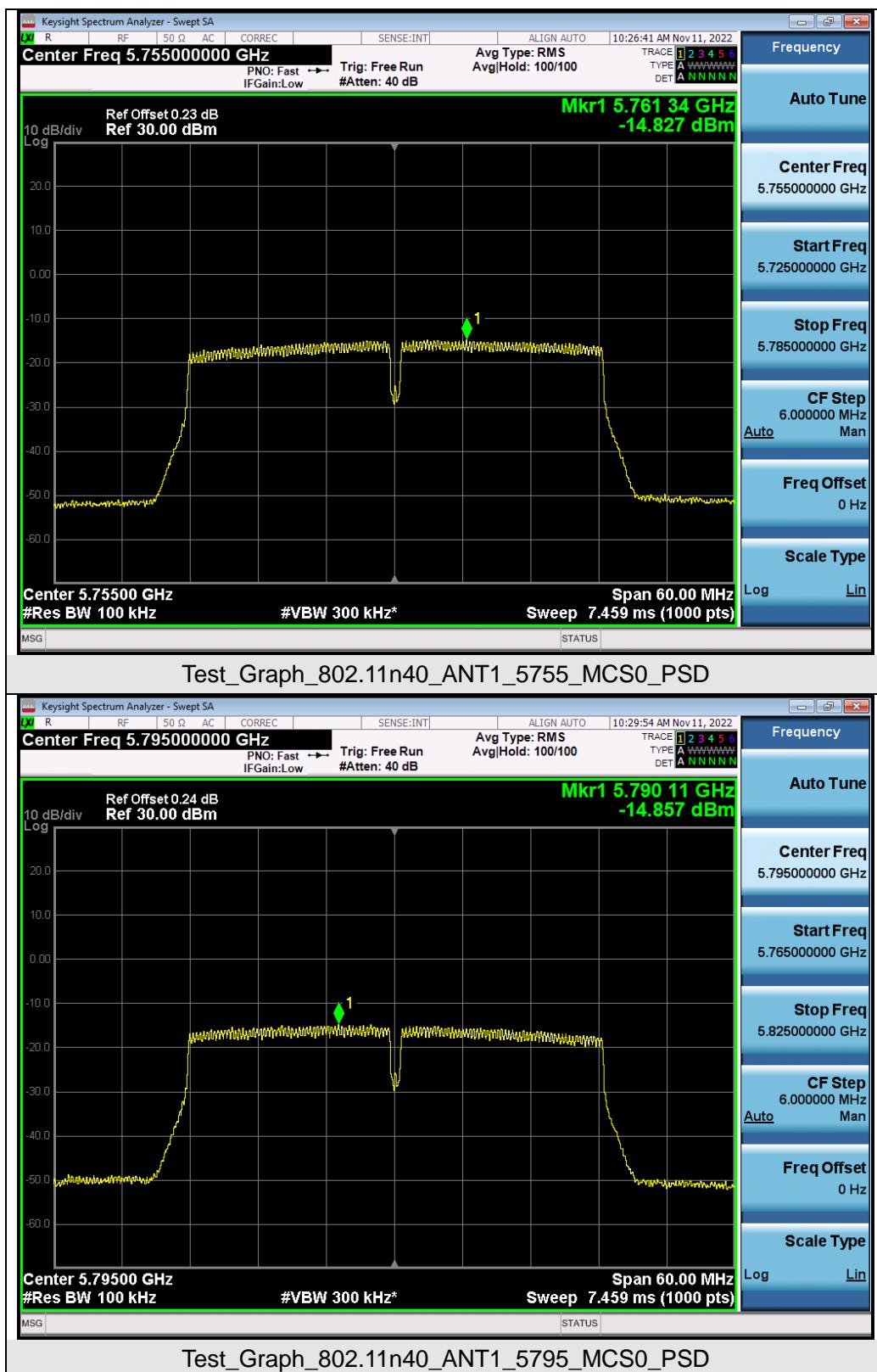


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10. CONDUCTED SPURIOUS EMISSION

10.1. 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.

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

The same as described in section 8.2.

10.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

10.4. LIMITS AND MEASUREMENT RESULT

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

Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11n40 was the worst case and record in his test report.

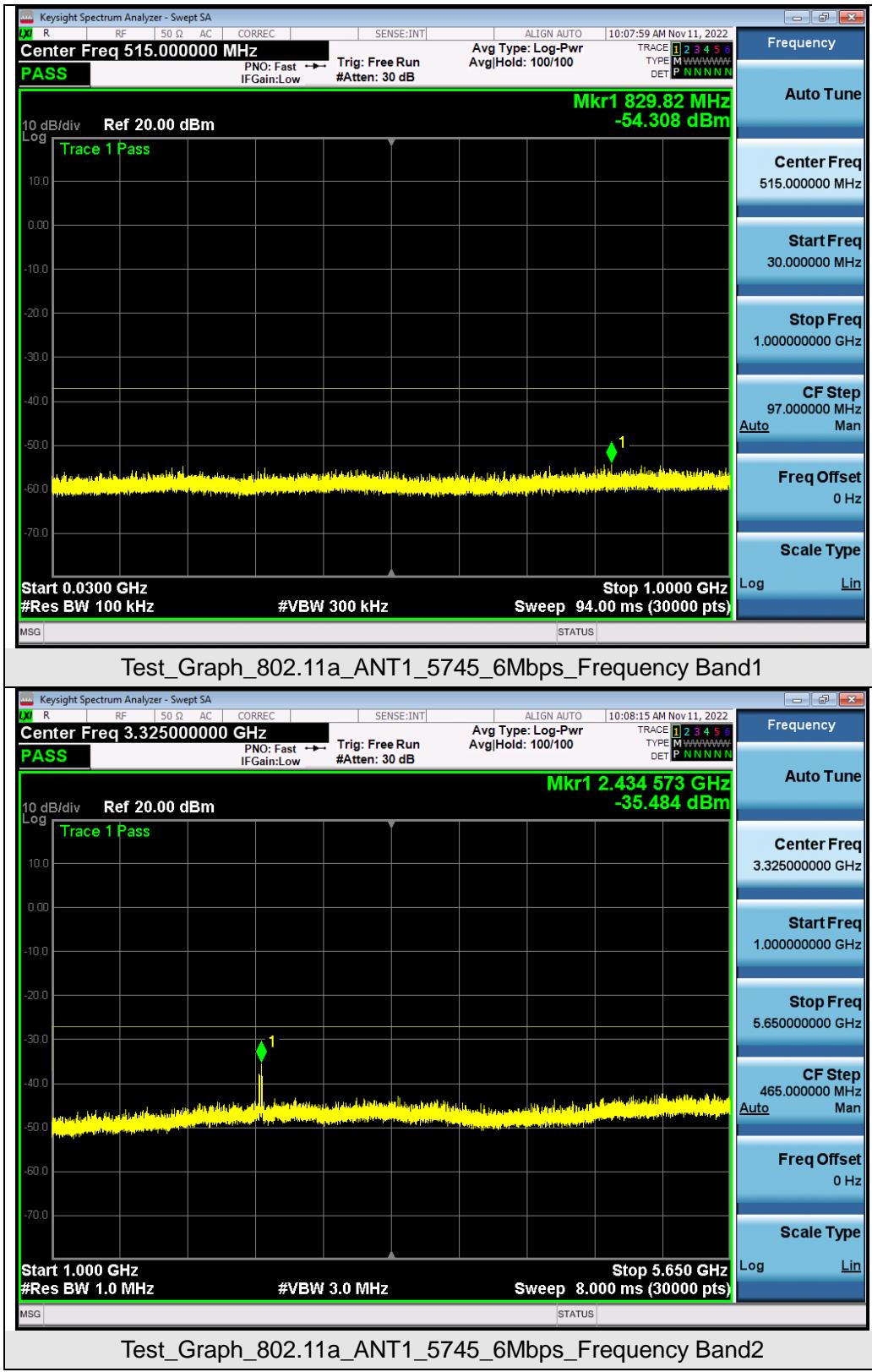
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Test Graphs of Spurious Emissions outside of the 5.725-5.85 GHz band for transmitters operating in the 5.725-5.85 GHz band

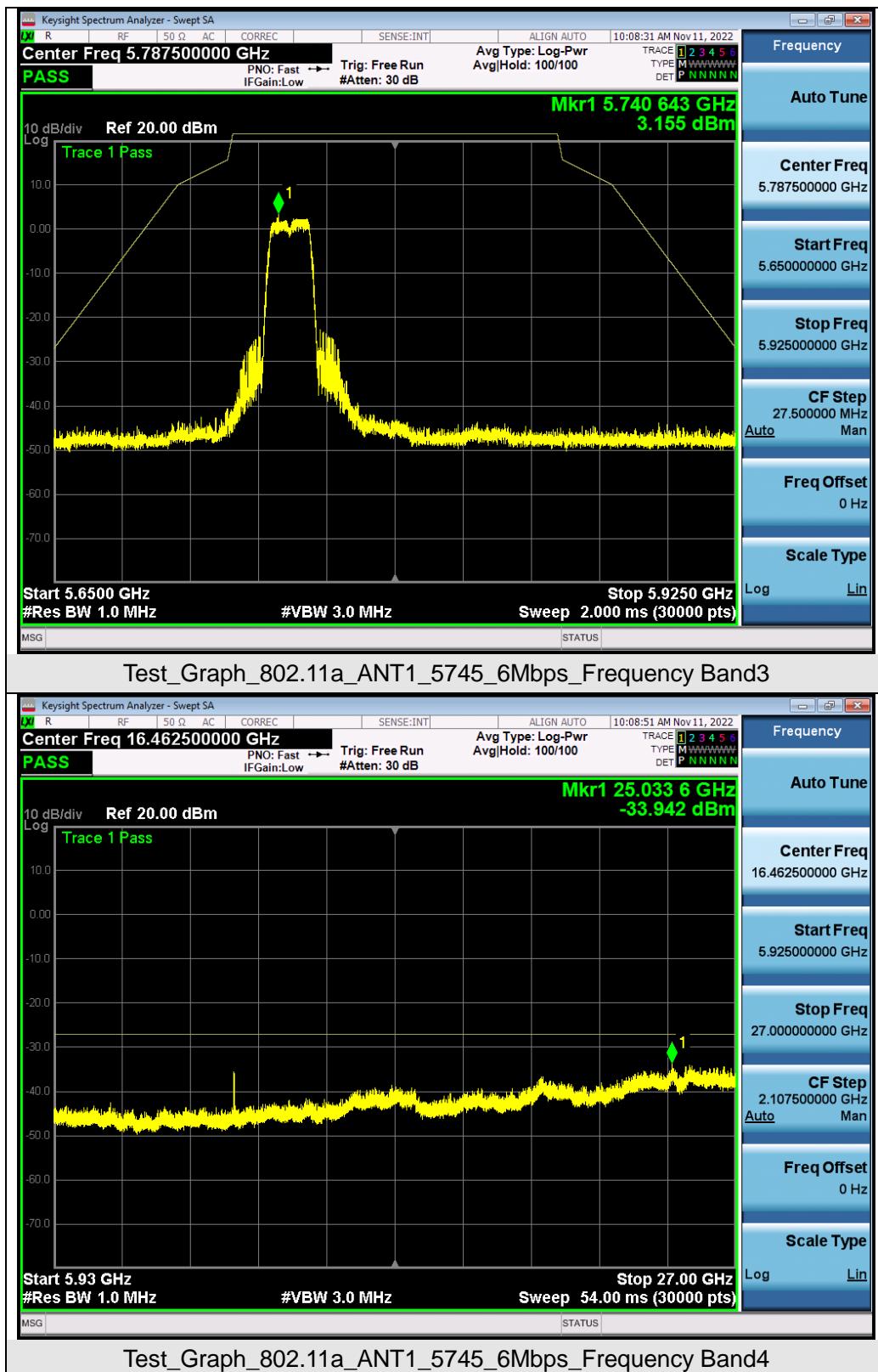


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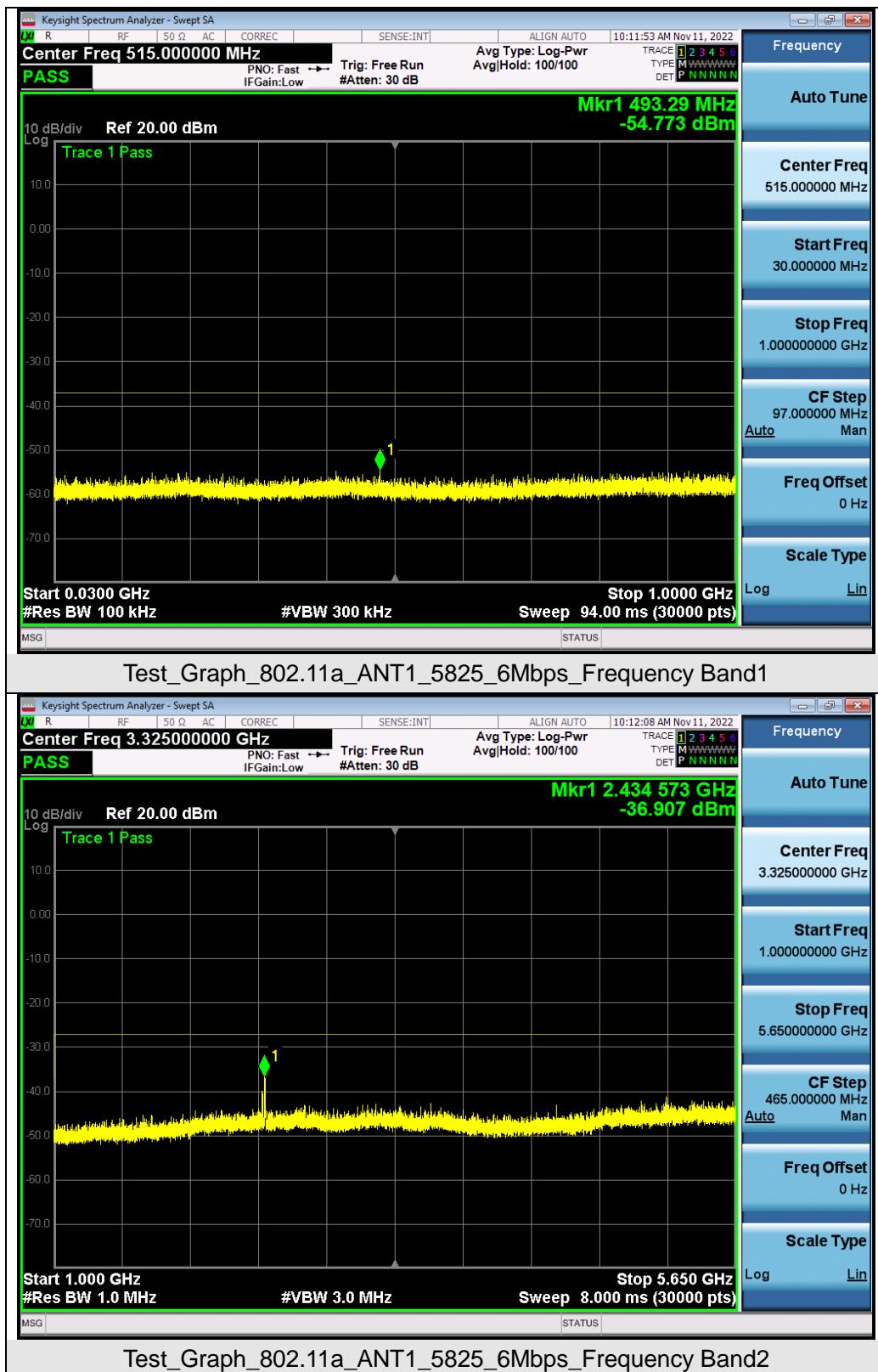


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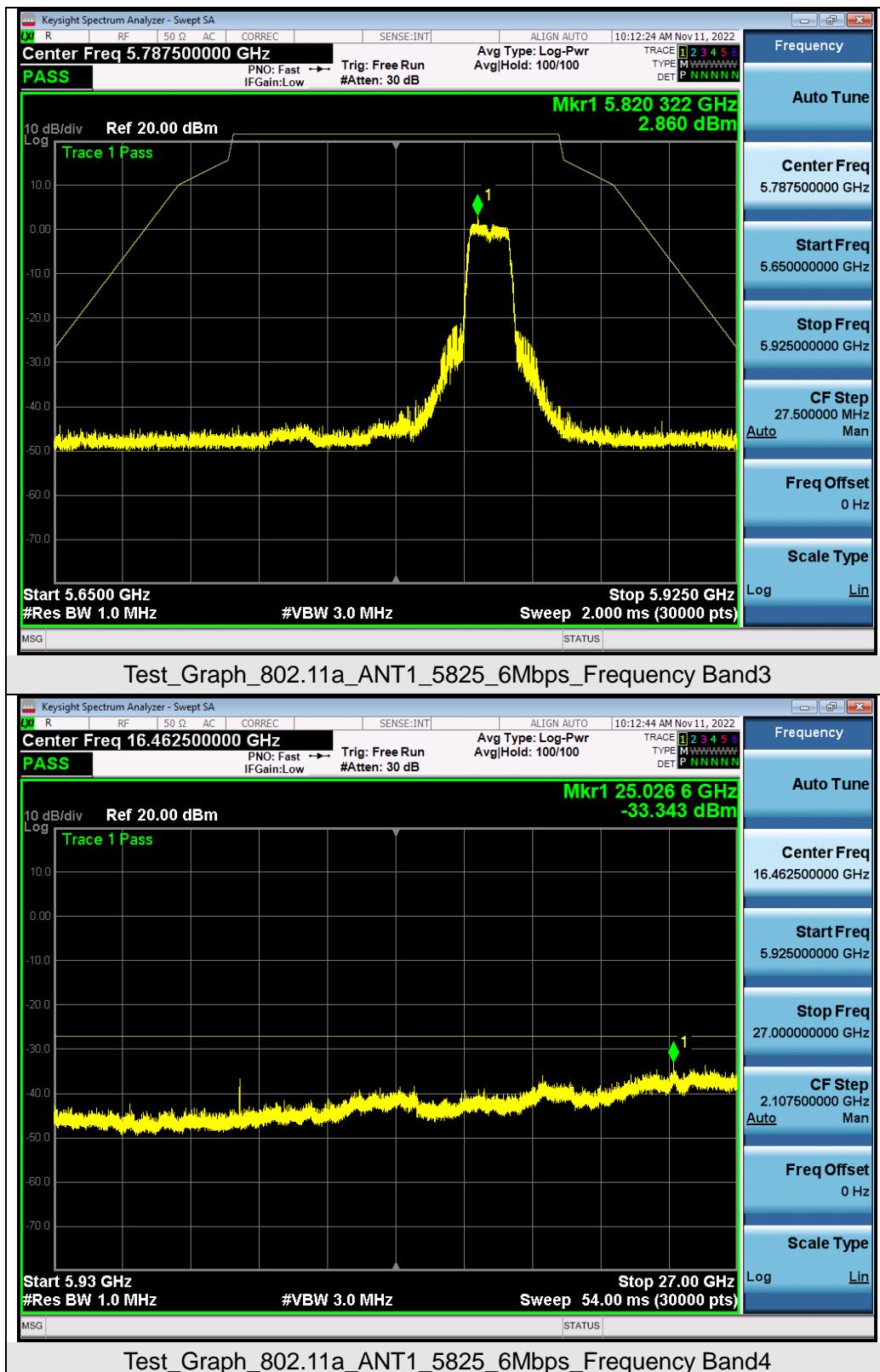


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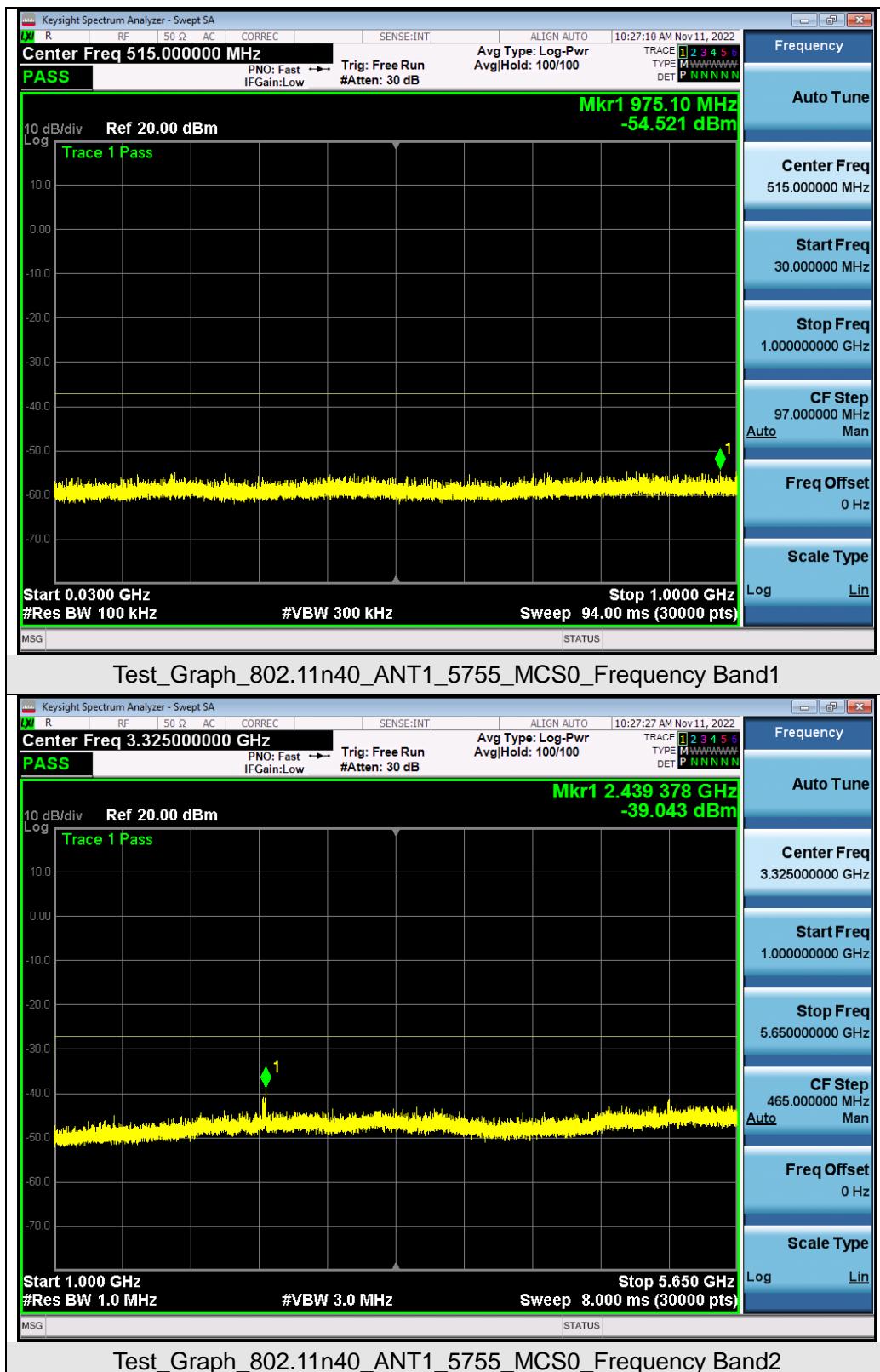


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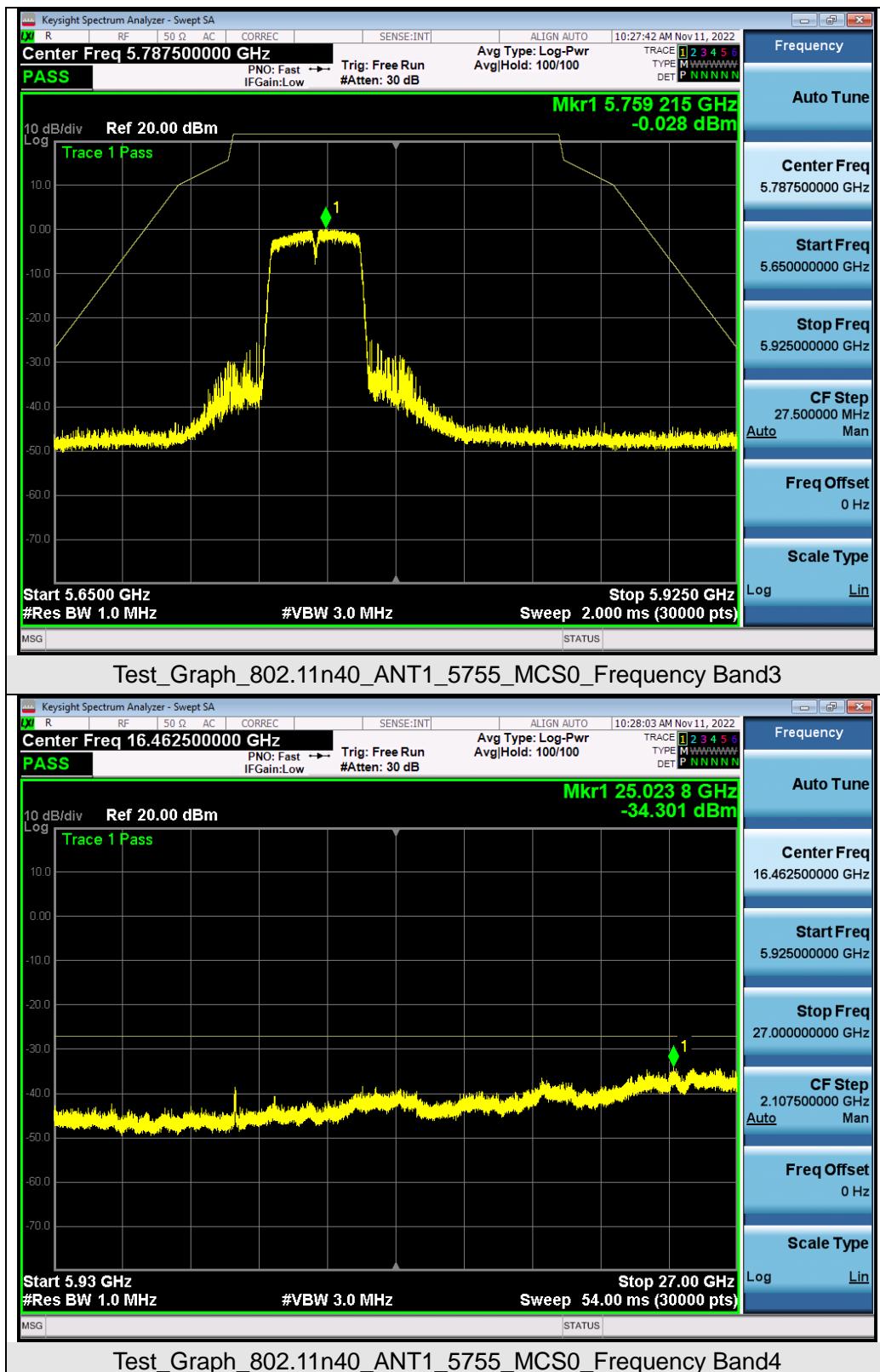


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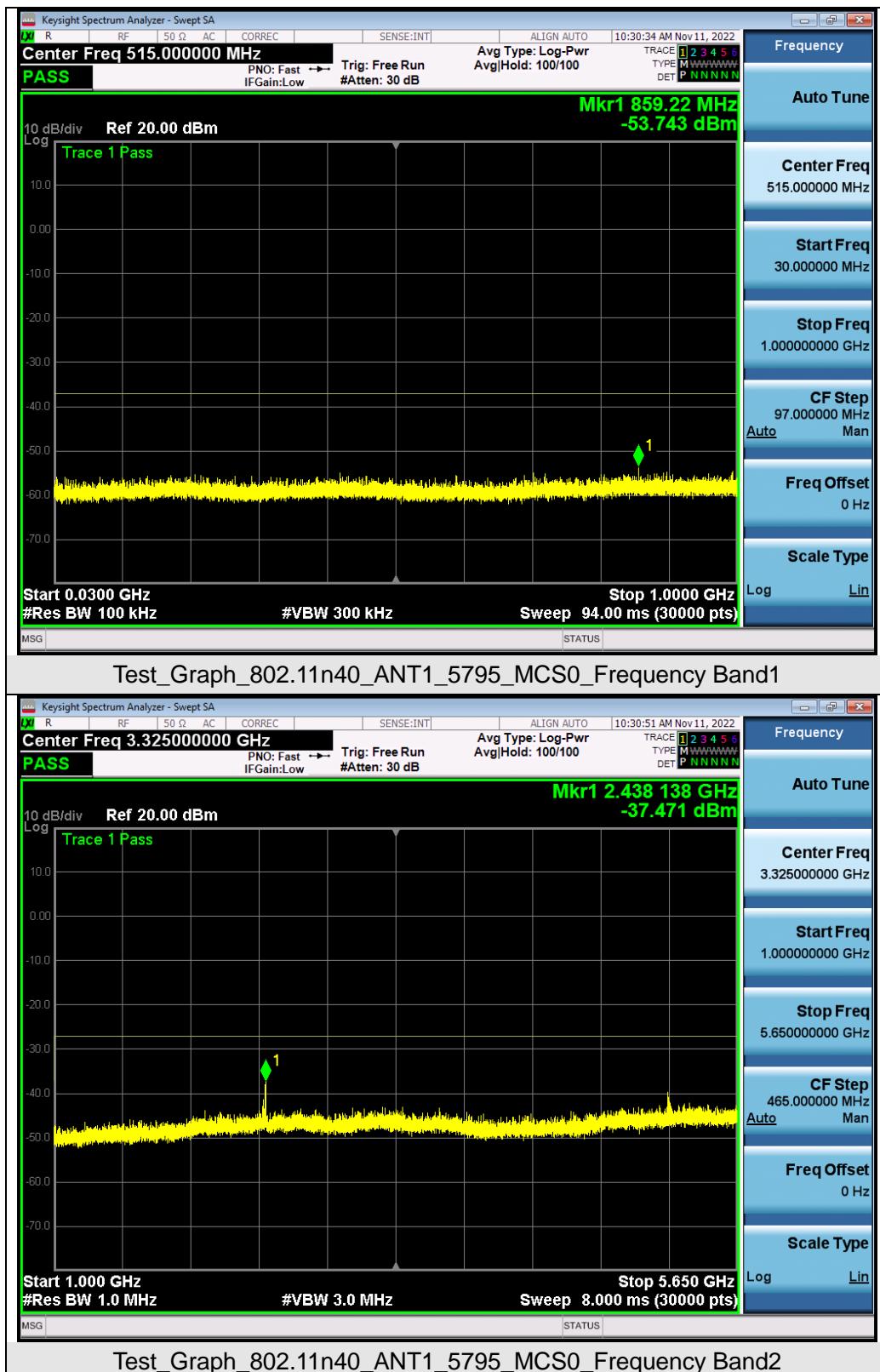


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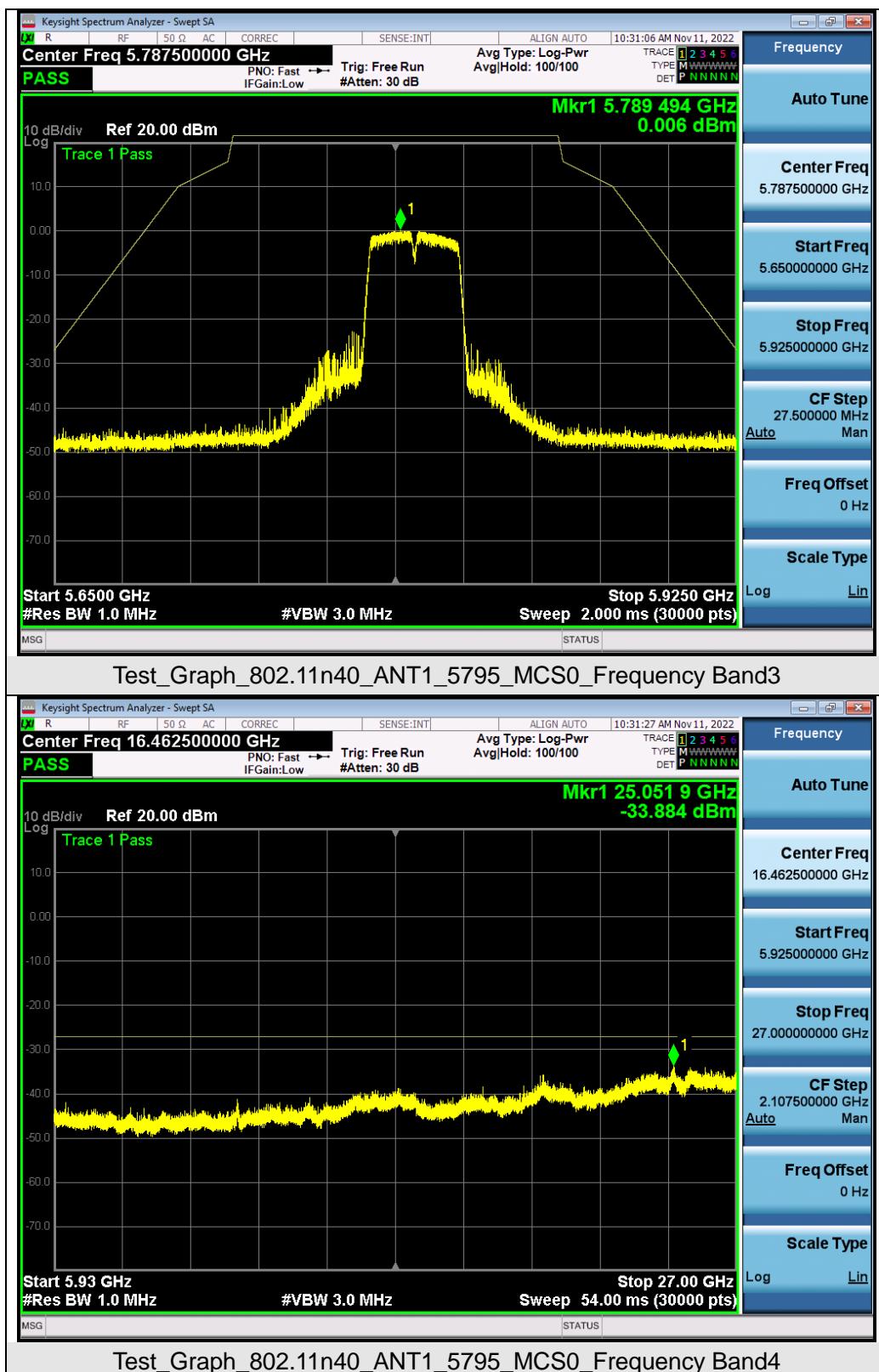


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11. RADIATED EMISSION

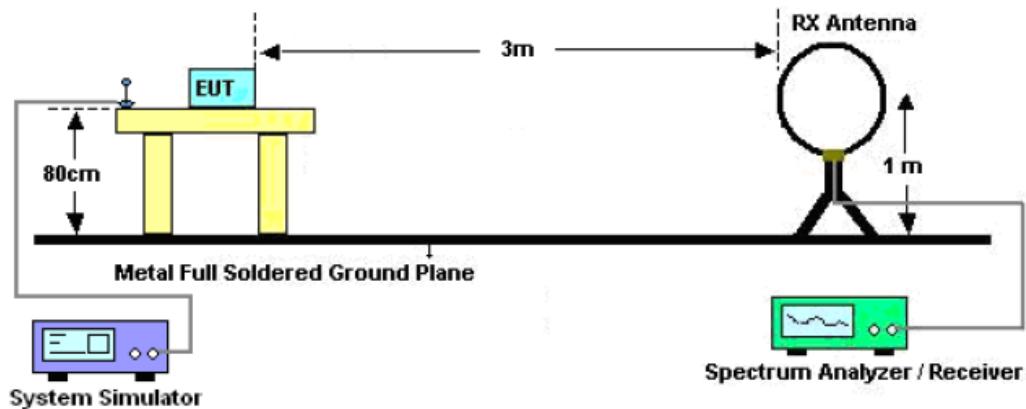
11.1. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.

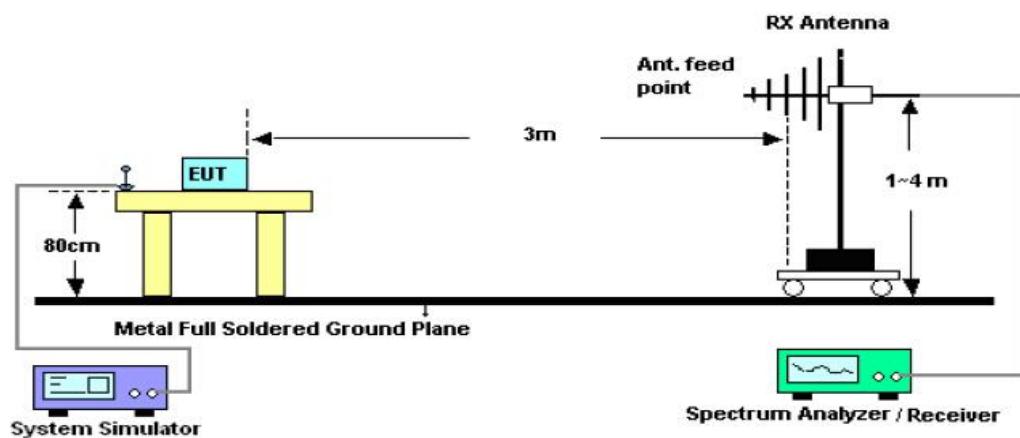
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11.2. TEST SETUP

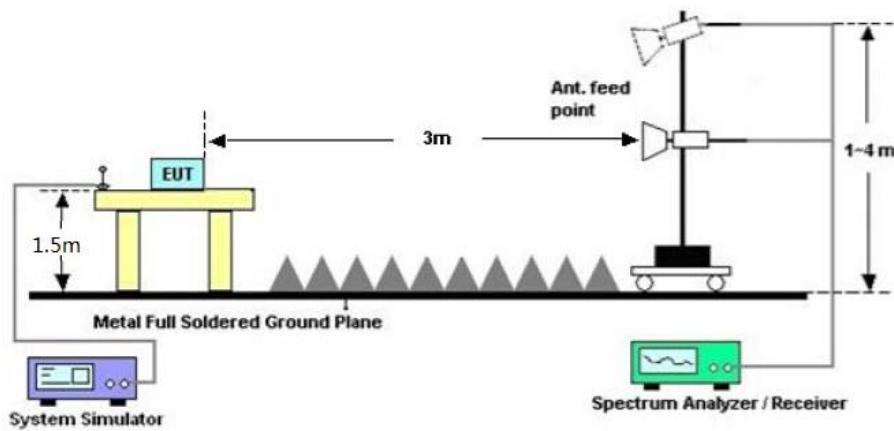
Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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11.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested for restricted band radiated emission,
the test records reported below are the worst result compared to other modes.

11.4. TEST RESULT

Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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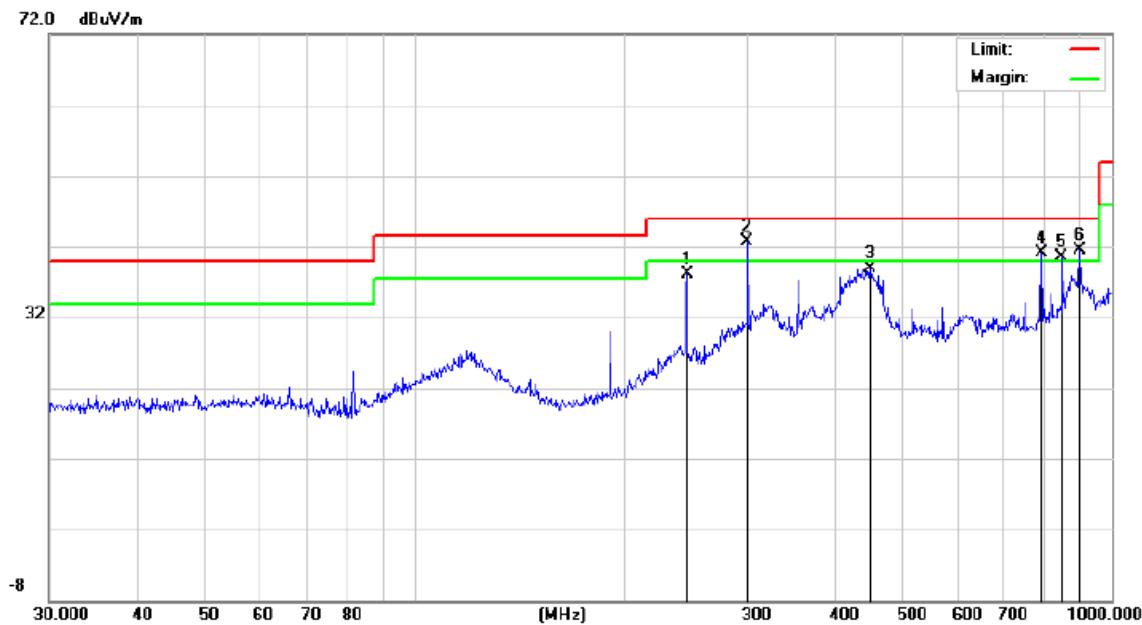
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Radiated emission from 30MHz to 1000MHz

EUT	Do it Yourself WiFi DIY 4K Camera Kit	Model Name	MGWIFIDIY4K
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
			Level	Factor	ment			
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		245.9509	16.17	21.92	38.09	46.00	-7.91	peak
2	*	300.3672	18.13	24.54	42.67	46.00	-3.33	peak
3		449.5558	12.60	26.24	38.84	46.00	-7.16	peak
4	!	793.3960	14.78	26.34	41.12	46.00	-4.88	peak
5	!	848.0563	12.10	28.38	40.48	46.00	-5.52	peak
6	!	900.1474	10.63	30.80	41.43	46.00	-4.57	peak

RESULT: PASS

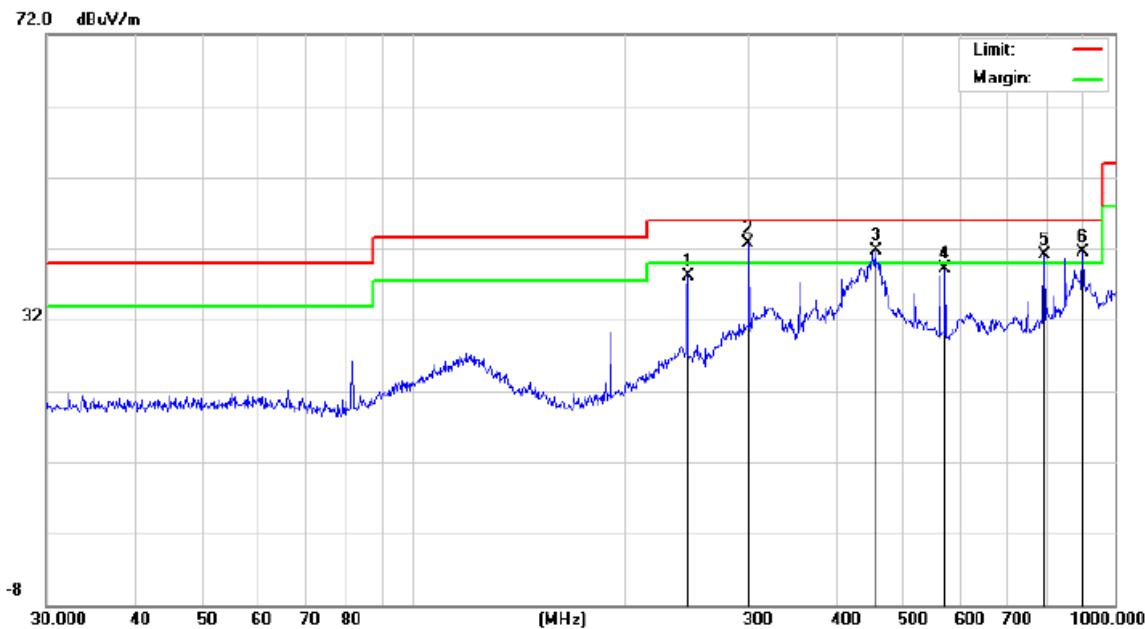
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EUT	Do it Yourself WiFi DIY 4K Camera Kit	Model Name	MGWIFIDIY4K
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		245.9509	16.17	21.92	38.09	46.00	-7.91	peak
2	*	300.3672	18.13	24.54	42.67	46.00	-3.33	peak
3	!	455.9058	15.33	26.34	41.67	46.00	-4.33	peak
4		572.6144	14.79	24.26	39.05	46.00	-6.95	peak
5	!	793.3960	14.78	26.34	41.12	46.00	-4.88	peak
6	!	900.1474	10.63	30.80	41.43	46.00	-4.57	peak

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 at 5180MHz is the worst case and recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

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EUT	Do it Yourself WiFi DIY 4K Camera Kit	Model Name	MGWIFIDIY4K
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11490.042	46.36	9.42	55.78	74.00	-18.22	peak
11490.042	37.39	9.42	46.81	54.00	-7.19	Avg
17235.063	40.71	10.51	51.22	68.20	-16.98	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11490.042	45.42	9.42	54.84	74.00	-19.16	peak
11490.042	36.66	9.42	46.08	54.00	-7.92	Avg
17235.063	40.21	10.51	50.72	68.20	-17.48	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Do it Yourself WiFi DIY 4K Camera Kit	Model Name	MGWIFIDIY4K
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11570.042	46.86	9.42	56.28	74.00	-17.72	
11570.042	35.77	9.42	45.19	54.00	-8.81	AVG
17355.063	41.39	10.51	51.90	68.20	-16.30	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11570.042	47.43	9.42	56.85	74.00	-17.15	
11570.042	35.73	9.42	45.15	54.00	-8.85	AVG
17355.063	42.92	10.51	53.43	68.20	-14.77	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

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EUT	Do it Yourself WiFi DIY 4K Camera Kit	Model Name	MGWIFIDIY4K
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ–Horizontal

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11650.042	47.77	9.62	52.98	74.00	-21.02	peak
11650.042	38.63	9.62	45.05	54.00	-8.95	AVG
17475.063	43.19	10.75	47.61	68.20	-26.39	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

RADIATED EMISSION ABOVE 1GHZ–Vertical

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Value Type
11650.042	46.42	9.62	53.55	74.00	-20.45	peak
11650.042	36.63	9.62	47.64	54.00	-6.36	AVG
17475.063	41.19	10.75	48.61	68.20	-25.39	peak

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.

Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Limit-Level.

The “Factor” value can be calculated automatically by software of measurement system.

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12. LINE CONDUCTED EMISSION TEST

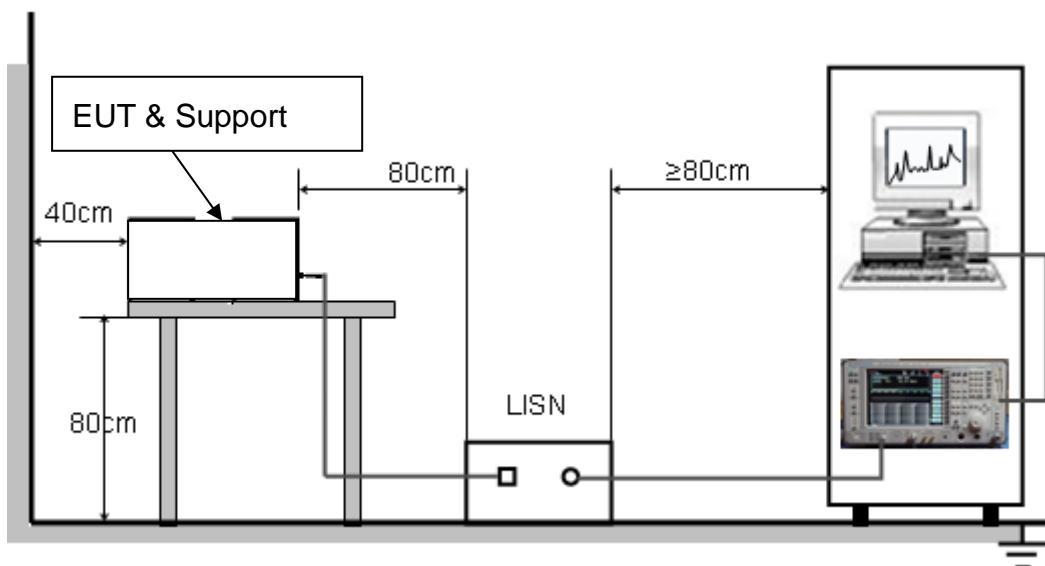
12.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P (dB μ V)	Average (dB μ V)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

12.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



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12.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipment received AC120V/60Hz power from a LISN, if any.
5. The EUT received charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 Ohm load; the second scan had Line 1 connected to a 50 Ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

12.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less – 2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case was reported on the Summary Data page.

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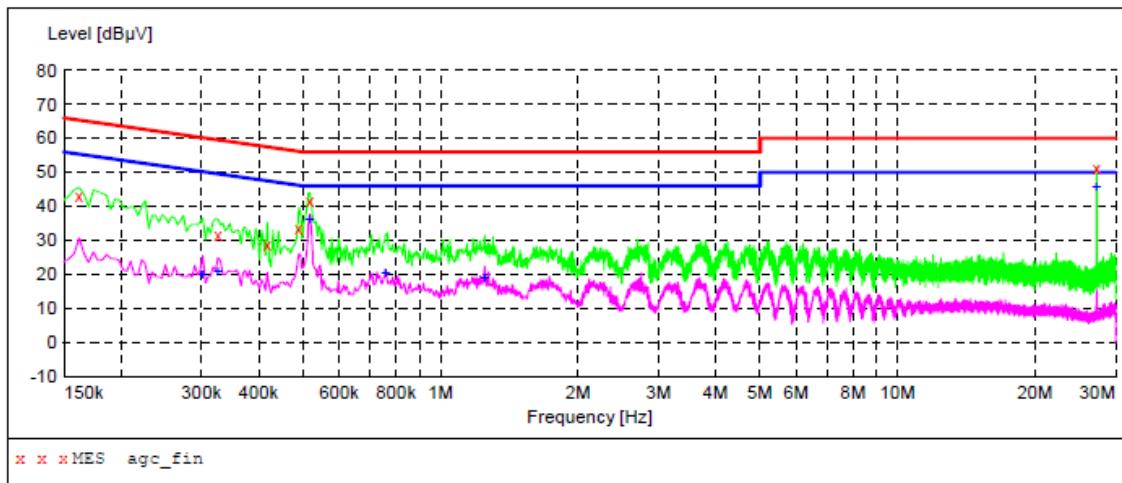
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12.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST

LINE CONDUCTED EMISSION TEST-L



MEASUREMENT RESULT: "agc_fin"

2022/11/1 20:40

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.162000	43.20	6.8	65	22.2	QP	L1
0.326000	31.40	5.9	60	28.2	QP	L1
0.418000	28.90	5.6	58	28.6	QP	L1
0.490000	33.70	5.4	56	22.5	QP	L1
0.518000	41.80	5.4	56	14.2	QP	L1
27.274000	51.00	9.4	60	9.0	QP	L1

MEASUREMENT RESULT: "agc_fin2"

2022/11/1 20:40

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.302000	20.10	6.0	50	30.1	AV	L1
0.326000	21.10	5.9	50	28.5	AV	L1
0.518000	36.60	5.4	46	9.4	AV	L1
0.758000	20.60	5.4	46	25.4	AV	L1
1.250000	19.40	5.8	46	26.6	AV	L1
27.274000	45.90	9.4	50	4.1	AV	L1

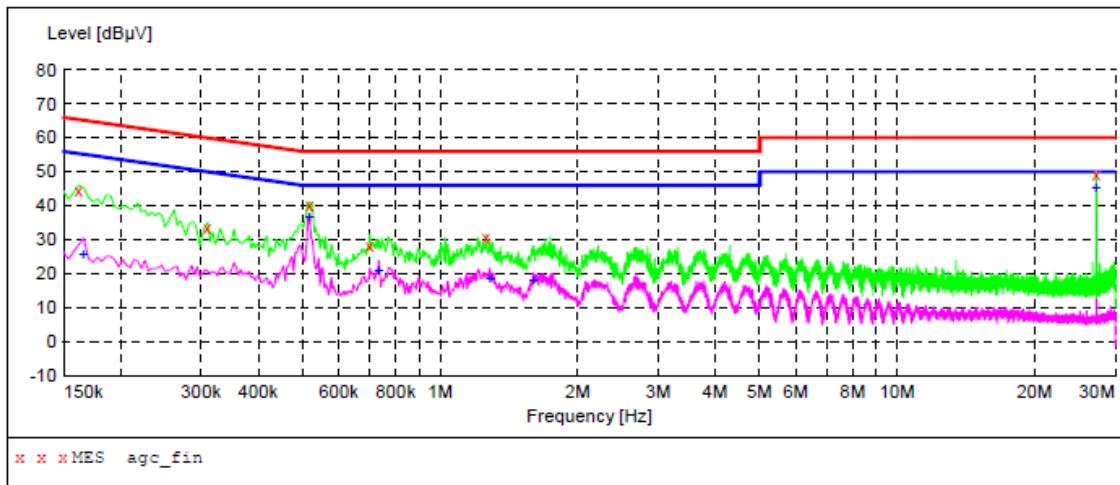
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LINE CONDUCTED EMISSION TEST-N

**MEASUREMENT RESULT: "agc_fin"**

2022/11/1 20:43

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.162000	44.70	6.8	65	20.7	QP	N
0.310000	33.30	6.0	60	26.7	QP	N
0.518000	40.00	5.4	56	16.0	QP	N
0.702000	28.40	5.4	56	27.6	QP	N
1.262000	30.50	5.8	56	15.5	QP	N
27.274000	49.20	9.4	60	10.8	QP	N

MEASUREMENT RESULT: "agc_fin2"

2022/11/1 20:42

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line
0.166000	25.70	6.8	55	29.5	AV	N
0.518000	37.00	5.4	46	9.0	AV	N
0.734000	20.90	5.4	46	25.1	AV	N
1.286000	18.80	5.8	46	27.2	AV	N
1.602000	18.20	6.1	46	27.8	AV	N
27.274000	45.50	9.4	50	4.5	AV	N

RESULT: PASS

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC15026221002AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC15026221002AP02

----END OF REPORT----

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Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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 15 days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

Attestation of Global Compliance(Shenzhen)Co., Ltd

Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd

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