TEST REPORT

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu,
Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

1. Client

◦ Name : Samsung Electronics Co., Ltd.

◦ Address : 129, Samsung-ro Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, 16677

◦ Date of Receipt : 2017-06-10

2. Manufacturer

◦ Name : Samsung Electronics Co., Ltd.

◦ Address : 129, Samsung-ro Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea, 16677

3. Use of Report : For FCC / ISED Certification

4. Test Sample / Model: WLAN Access Point / WEA524i

5. Date of Test : 2017-06-16 to 2017-07-07

6. Test Standard(method) used : FCC 47 CFR part 15 subpart E 15.407
ISED RSS-247

7. Testing Environment: Temp.: (27 ± 5) ℃, Humidity: (45 ± 3) % R.H.

8. Test Results : Compliance

The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

Affirmation	Tested by Ji-Hye Kim: (Signature)	Technical Manager Won-Jae, Hwang: (Signature)

2017-07-07

Republic of KOREA **CTK Co., Ltd.**

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REPORT REVISION HISTORY

Date	Revision	Page No
2017-07-07	Issued (CTK-2017-01299-1)	all

CONTENTS

1.0 General Product Description

FCC ID	A3LWEA524I
Certification Number ISED	649E-WEA524I
Equipment model name	WEA524i
Serial number	Prototype
EUT condition	Pre-production, not damaged
Frequency Range	UNII 2A : 5 260 MHz – 5 320 MHz (20 MHz_BW) 5 270 MHz – 5 310 MHz (40 MHz_BW) 5 290 MHz (80 MHz_BW) 5 250 MHz (160 MHz_BW) UNII 2C : 5 500 MHZ – 5 720 MHz (20 MHz_BW) 5 510 MHz – 5 710 MHz (40 MHz_BW) 5 530 MHz – 5 690 MHz (80 MHz_BW) 5 570 MHz (160 MHz_BW)
Transfer Rate	802.11a : 54 / 48 / 36 / 24 / 18 / 12 / 9 / 6 Mbps 802.11n : up to 600 Mbps 802.11ac : up to 1.7 Gbps
Type of Modulation	OFDM
Power Source	DC 48 V(Adaptor,PoE)
Duty Cycle	802.11a : 97.3 % 802.11n_HT20 : 99.0 % 802.11n_HT40 : 97.5 % 802.11ac_VHT20 : 99.1 % 802.11ac_VHT40 : 97.9 % 802.11ac_VHT80 : 95.7 % 802.11ac_VHT160 : 97.4 %
Antenna Type	ANT 0, 1, 2 : Dipole Antenna ANT 3 : IFA Antenna
Antenna Gain	ANT 0, 1, 2 : 6.7 dBi ANT 3 : 4.2 dBi
Hardware Rev	PCS01B
Software Rev	0.9.8.T

RF output power :

Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	ANT0 (SISO)	ANT1 (SISO)	ANT2 (SISO)	ANT3 (SISO)
				RF output power (dBm)			
UNII 2A	802.11a	20	5260 – 5320	8.91	-	-	-
	802.11n	20	5260 – 5320	9.79	9.18	9.77	8.39
	802.11n	40	5270 – 5310	9.43	9.85	9.53	9.18
	802.11ac	20	5260 – 5320	9.79	9.12	9.94	8.70
	802.11ac	40	5270 – 5310	9.65	9.91	9.54	9.11
	802.11ac	80	5290	9.80	9.20	9.79	9.50
	802.11ac	160	5250	ANT0 + ANT2 (SISO)		ANT1 + ANT3 (SISO)	
				10.12		9.86	
UNII 2C	802.11a	20	5500 – 5720	9.25	-	-	-
	802.11n	20	5500 – 5720	8.45	8.77	9.11	8.38
	802.11n	40	5510 – 5710	9.68	9.26	9.93	9.52
	802.11ac	20	5500 – 5720	9.14	8.81	9.21	8.44
	802.11ac	40	5510 – 5710	9.79	9.28	9.97	9.52
	802.11ac	80	5530 – 5690	9.71	9.68	9.99	9.80
	802.11ac	160	5570	ANT0 + ANT2 (SISO)		ANT1 + ANT3 (SISO)	
				15.08		15.82	

Band	Mode	Channel Bandwidth (MHz)	Frequency Range (MHz)	ANT0 + ANT1 (MIMO)	ANT0 + ANT1 + ANT2 (MIMO)	ANT0 + ANT1 + ANT2 + ANT3 (MIMO)
				RF output power (dBm)		
UNII 2A	802.11a	20	5260 – 5320	12.09	13.80	14.88
	802.11n	20	5260 – 5320	12.49	14.35	15.30
	802.11n	40	5270 – 5310	12.66	14.38	15.52
	802.11ac	20	5260 – 5320	12.48	14.40	15.39
	802.11ac	40	5270 – 5310	12.79	14.47	15.57
	802.11ac	80	5290	12.52	14.38	15.61
	802.11ac	160	5250	ANT0 + ANT1 + ANT2 + ANT3 (MIMO)		
				13.00		
UNII 2C	802.11a	20	5500 – 5720	12.10	13.93	14.97
	802.11n	20	5500 – 5720	11.62	13.56	14.71
	802.11n	40	5510 – 5710	12.49	14.40	15.62
	802.11ac	20	5500 – 5720	11.99	13.83	14.93
	802.11ac	40	5510 – 5710	12.55	14.44	15.65
	802.11ac	80	5530 – 5690	12.71	14.57	15.82
	802.11ac	160	5570	ANT0 + ANT1 + ANT2 + ANT3 (MIMO)		
				18.48		

2.0 Facility and Accreditations

2.1 Test Facility

The measurement facility is located at (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea. The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

2.2 Laboratory Accreditations and Listings

Country	Agency	Scope of Accreditation	Registration Number	Logo
USA	**FCC**	FCC Part 15 & 18 EMI (Electromagnetic Interference / Emission)	805871	
CANADA	**ISED**	ISED EMI (3/10m test site)	8737A-2	
JAPAN	**VCCI**	VCCI V-3 EMI (Electromagnetic Interference / Emission)	C-986 T-1843 R-3627 G-387	
KOREA	**MSIP**	EMI (Electromagnetic Interference / Emission) EMS (Electromagnetic Susceptibility / Immunity)	KR0025	

2.3 Calibration Details of Equipment Used for Measurement

Test equipment and test accessories are calibrated on regular basis. The maximum time between calibrations is one year or what is recommended by the manufacturer, whichever is less. All test equipment calibrations are traceable to the Korea Research Institute of Standards and Science (KRISS), therefore, all test data recorded in this report is traceable to KRISS.

3.0 Test Specifications

3.1 Standards

FCC Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
15.407(e)	6 dB Bandwidth	> 500 kHz	C	Conducted
15.407(a)	26 dB Bandwidth and 99% Bandwidth	NA	C	
15.407(a)(1)	Conducted Output Power	< 1 W (5150 – 5250 MHz) < 250 mW (5 250 – 5 350 MHz, (5 470 – 5 725 MHz)	C	
15.407(a)(1)	Power Spectral Density	< 17 dBm/MHz (5150 – 5250 MHz) < 11 dBm/MHz (5 250 – 5 350 MHz, (5 470 – 5 725 MHz)	C	
15.407(g)	Frequency Stability	NA	C	
15.407 (b)	Undesirable emission	< -27 dBm/MHz EIRP (5150 – 5250 MHz, 5250 – 5350 MHz, 5470 – 5725 MHz) < -17 dBm/MHz EIRP (5715 – 5725 MHz)	C	Radiated
15.205, 15.407 (b)(5),(6)	Radiated Spurious Emission	15.209(a)	C	
15.207	AC Conducted Emissions	15.207(a)	C	Line Conducted

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

ISED Part Section(s)	Requirement(s)	Limit	Status (Note 1)	Test Condition
RSS-Gen 4.6.1	6 dB Bandwidth	> 500 kHz	C	Conducted
RSS-Gen 4.6.1	26 dB Bandwidth and 99% Bandwidth	NA	C	
RSS-247 6.2.1.1, 6.2.2.1, 6.2.3.1	Conducted Output Power	< 200 mW EIRP (5150 – 5250 MHz) < 250 mW (5 250 – 5 350 MHz, 5 470 – 5 725 MHz)	C	
RSS-247 6.2.1.1, 6.2.2.1, 6.2.3.1	Power Spectral Density	< 10 dBm/MHz EIRP (5150 – 5250 MHz) < 11 dBm/MHz (5 250 – 5 350 MHz, 5 470 – 5 725MHz)	C	
RSS-Gen 6.11	Frequency Stability	NA	C	
RSS-247 6.2.1.2, 6.2.2.2, 6.2.3.2	Undesirable emission	< -27 dBm/MHz EIRP (5150 – 5250 MHz, 5 250 – 5 350 MHz, 5 470 – 5 725 MHz) < -17 dBm/MHz EIRP (5 715 – 5 725 MHz)	C	Radiated
RSS-Gen 6.13	Radiated Spurious Emission	RSS-247 5.5	C	
RSS-Gen 5	Receiver Spurious Emissions	RSS-Gen 7.1.2	C	
RSS-Gen 8.8	AC Conducted Emissions	RSS-Gen 8.8	C	Line Conducted
Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable				
Note 2: The data in this test report are traceable to the national or international standards.				

The sample was tested according to the following specification:
FCC Part 15.407, ANSI C63.10-2013, RSS-247 Issue 2

The tests were performed according to the method of measurements prescribed in KDB No.789033 and KDB No.662911.

3.2 Mode of operation during the test

The EUT is operated in a manner representative of the typical of the equipments.
During at testing, system components were manipulated within the confines of typical usage to maximize each emission.
For WLAN function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
All modulation modes were tests. The results are only attached worst cases.

Test mode

Test Item	Modulation	Data Rate
6 dB/26 dB/99% Bandwidth Conducted Output Power Power Spectral Density Frequency Stability Undesirable emission Radiated Emissions Above 1GHz	802.11a	6 Mbps
	802.11n and 802.11ac	MCS 0
Radiated Emissions Below 1GHz AC Conducted Emissions	Nomal Mode	Auto

Test Frequency

- 802.11a, 802.11n_HT20, 802.11ac_VHT20

	Lowest channel	Middle channel	Highest channel
UNII 2A	5 260 MHz	5 300 MHz	5 320 MHz
UNII 2C	5 500 MHz	5 600 MHz	5 720 MHz

- 802.11n_HT40, 802.11ac_VHT40

	Lowest channel	Middle channel	Highest channel
UNII 2A	5 270 MHz	-	5 310 MHz
UNII 2C	5 510 MHz	5 590 MHz	5 710 MHz

- 802.11ac_VHT80

	Lowest channel	Middle channel	Highest channel
UNII 2A	5 290 MHz	-	-
UNII 2C	5 530 MHz	-	5 690 MHz

- 802.11ac_VHT160

	Lowest channel	Middle channel	Highest channel
UNII 2A	5 250 MHz	-	-
UNII 2C	5 570 MHz	-	-

3.3 Device Modifications

The following modifications were necessary for compliance:

Not applicable

3.4 Peripheral Devices

Device	Manufacturer	Model No.	Serial No.
Note Computer	Samsung Electronics Co., Ltd.	NT-R540	ZW3B93AZ900402F
AC/DC Adapter	Tech-Power Electric Co., Ltd.	NT01	-
PoE switch	NETGEAR	GS110TP	3R724357004DA
PoE Adapter	Dongguan Leader Electronics Inc.	NU660-F480125-I1NN	-
AC/DC Adapter	SoluM Co., Ltd.	A2448N_NT	-

3.5 Maximum Measurement Uncertainty

The value of the measurement uncertainty for the measurement of each parameter.
Coverage factor k = 2, Confidence levels of 95 %

Description	Uncertainty
Conducted RF Output Power	± 1.5 dB
Power Spectral Density	± 1.5 dB
Occupied Bandwidth	± 0.1 MHz
Unwanted Emission(conducted)	± 3.0 dB
Radiated Emissions (f ≤ 1 GHz)	± 4.0 dB
Radiated Emissions (f > 1 GHz)	± 5.0 dB

3.6 Test Software

Conducted Test	Ics Pro Ver. 6.0.3
Radiated Test	TOYO EMI software EP5RE Ver. 5.1.0
Line Conducted Test	ESCI7, ESCI3 : EMC32 Ver. 8.50.0 ESR7 : EMC32 Ver. 8.53.0

4.0 Technical Characteristic Test

4.1 ON Time, Duty Cycle

Test Procedures

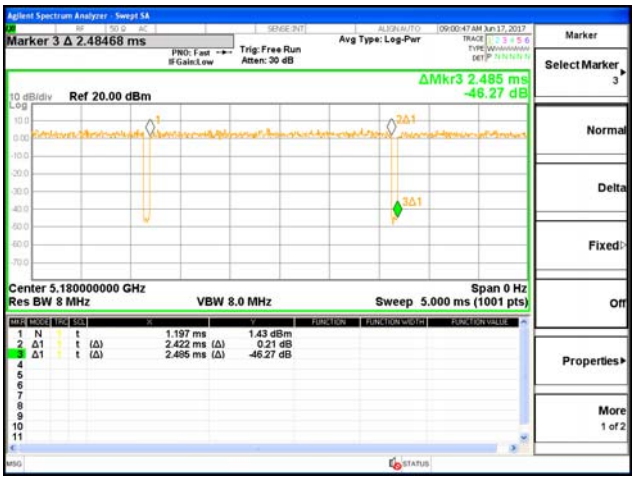
KDB 789033 Zero-Span Spectrum Analyzer Method.

Test Data:

	ON Time (ms)	Period (ms)	TX OFF (ms)	Duty Cycle (linear)	Duty Cycle (%)
802.11a	2.064	2.123	0.059	0.973	97.3
802.11n_HT20	5.002	5.053	0.051	0.990	99.0
802.11n_HT40	2.422	2.485	0.063	0.975	97.5
802.11ac_VHT20	5.021	5.069	0.048	0.991	99.1
802.11ac_VHT40	2.441	2.494	0.053	0.979	97.9
802.11ac_VHT80	1.147	1.201	0.054	0.957	95.7
802.11ac_VHT160	2.296	2.236	0.060	0.974	97.4

Duty Cycle_802.11a

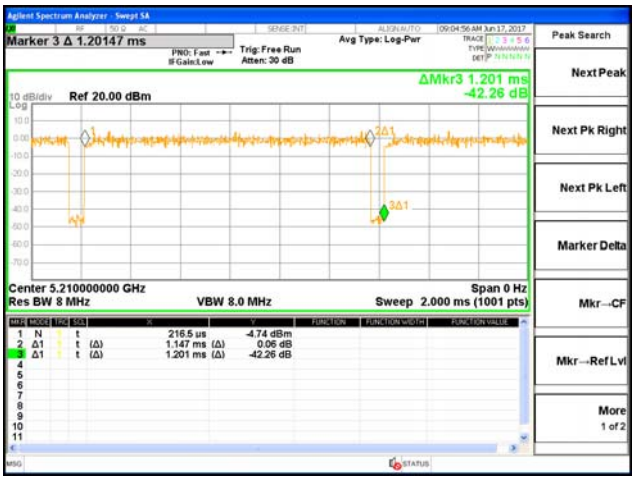
Duty Cycle_802.11n_HT20



Duty Cycle_802.11n_HT40

Duty Cycle_802.11ac_VHT20

Duty Cycle_802.11ac_VHT40



Duty Cycle_802.11ac_VHT80

Duty Cycle_802.11ac_VHT160

4.2 26 dB Bandwidth and 99% Bandwidth

Test Procedures(ANSI C63.10-2013 6.9.2)

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

Test Procedures(ANSI C63.10-2013 6.9.3)

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission.
Use the 99% power bandwidth function of the instrument and report the measured bandwidth.

Test Settings :

Center frequency = the highest, middle and the lowest channels

a) RBW = approximately 1 % of the emission bandwidth

b) 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%.

Minimum Standard:

NA

Test Data:

Ant 0

	26 dB Bandwidth and 99% Bandwidth (MHz)					
Mode	802.11a		802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99%	26 dB	99%	26 dB	99%
5 260 MHz	20.77	17.09	21.50	18.15	21.50	18.17
5 300 MHz	20.59	17.14	21.61	18.14	21.62	18.18
5 320 MHz	20.79	17.14	21.64	18.16	21.53	18.17
5 500 MHz	20.65	17.07	21.26	18.14	21.39	18.17
5 600 MHz	20.63	17.10	21.56	18.18	21.51	18.17
5 720 MHz	20.92	17.15	21.45	18.17	21.70	18.19
Measurement uncertainty	± 3 dB					

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 270 MHz	40.23	36.07	40.08	36.08
5 310 MHz	40.07	36.07	40.37	36.08
5 510 MHz	40.18	36.08	40.19	36.06
5 590 MHz	40.40	36.04	40.16	36.08
5 710 MHz	40.27	36.10	40.27	36.12
Measurement uncertainty	± 3 Db			

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 290 MHz	83.11	75.94
5 530 MHz	82.90	75.86
5 690 MHz	83.36	75.92
Measurement uncertainty	± 3 dB	

Ant 1

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %
5 260 MHz	21.31	18.13	21.36	18.12
5 300 MHz	21.36	18.14	21.48	18.14
5 320 MHz	21.44	18.15	21.41	18.15
5 500 MHz	21.61	18.14	21.33	18.15
5 600 MHz	21.39	18.16	21.43	18.14
5 720 MHz	21.65	18.17	21.46	18.17

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 270 MHz	40.25	36.07	40.31	36.07
5 310 MHz	40.26	36.05	40.26	36.05
5 510 MHz	40.19	36.13	40.23	36.07
5 590 MHz	39.91	36.07	40.26	36.07
5 710 MHz	40.24	36.10	40.05	36.08

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 290 MHz	83.41	75.93
5 530 MHz	83.30	75.83
5 690 MHz	83.27	75.87

Ant 2

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %
5 260 MHz	21.58	18.14	21.33	18.14
5 300 MHz	21.44	18.17	21.48	18.16
5 320 MHz	21.46	18.17	21.50	18.14
5 500 MHz	21.28	18.15	21.47	18.20
5 600 MHz	21.59	18.18	21.59	18.16
5 720 MHz	21.58	18.20	21.70	18.18

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 270 MHz	40.46	36.08	40.27	36.10
5 310 MHz	40.26	36.06	40.12	36.05
5 510 MHz	40.15	36.07	40.31	36.06
5 590 MHz	40.31	36.10	40.49	36.08
5 710 MHz	40.28	36.08	40.31	36.10

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 290 MHz	83.53	75.96
5 530 MHz	82.90	75.93
5 690 MHz	83.23	75.92

Ant 3

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT20		802.11ac_VHT20	
Frequency	26 dB	99 %	26 dB	99 %
5 260 MHz	21.72	18.14	21.31	18.11
5 300 MHz	21.53	18.16	21.51	18.14
5 320 MHz	21.62	18.17	21.63	18.14
5 500 MHz	21.64	18.20	21.74	18.18
5 600 MHz	21.43	18.18	21.70	18.18
5 720 MHz	21.47	18.12	21.58	18.15

	26 dB Bandwidth and 99% Bandwidth (MHz)			
Mode	802.11n_HT40		802.11ac_VHT40	
Frequency	26 dB	99 %	26 dB	99 %
5 270 MHz	40.36	36.10	40.46	36.08
5 310 MHz	40.14	36.04	39.97	36.04
5 510 MHz	40.20	36.12	40.53	36.10
5 590 MHz	40.09	36.09	40.12	36.05
5 710 MHz	40.20	36.10	40.26	36.10

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT80	
Frequency	26 dB	99 %
5 290 MHz	82.77	75.81
5 530 MHz	82.54	75.80
5 690 MHz	82.78	75.86

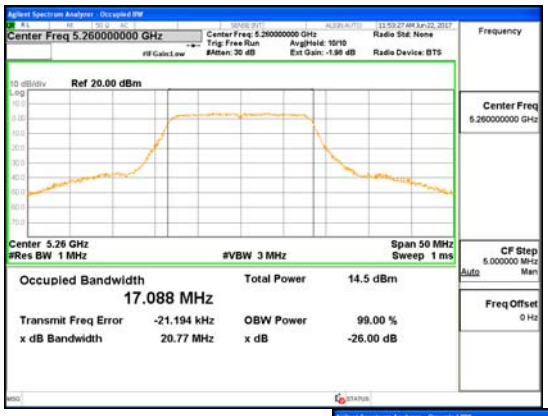
Ant 0 + Ant 2

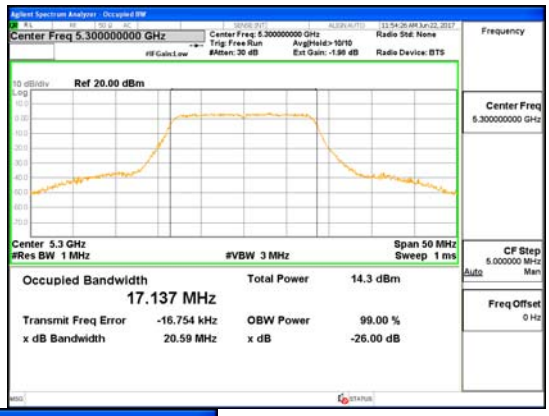
	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT160	
Frequency	26 dB	99 %
5 250 MHz	163.00	154.43
5 570 MHz	162.80	154.71

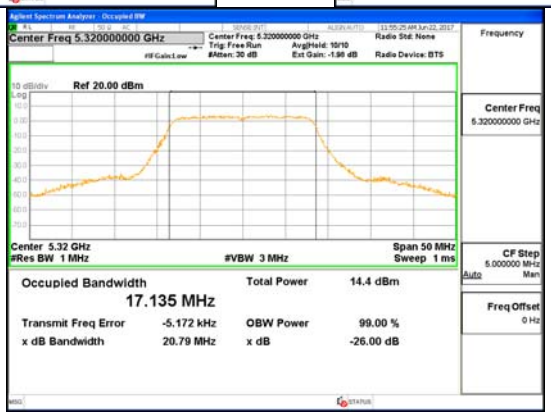
Ant 1 + Ant 3

	26 dB Bandwidth and 99% Bandwidth (MHz)	
Mode	802.11ac_VHT160	
Frequency	26 dB	99 %
5 250 MHz	163.00	154.84
5 570 MHz	162.10	154.36

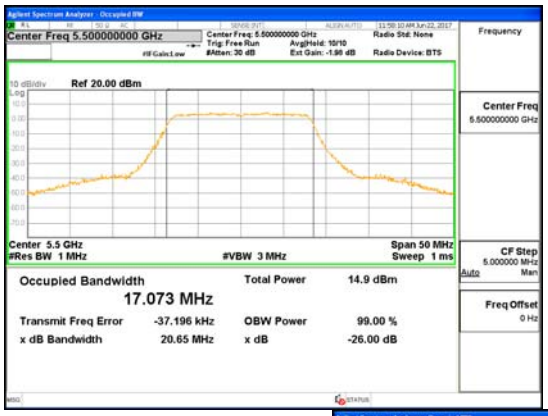
See next pages for actual measured spectrum plots.

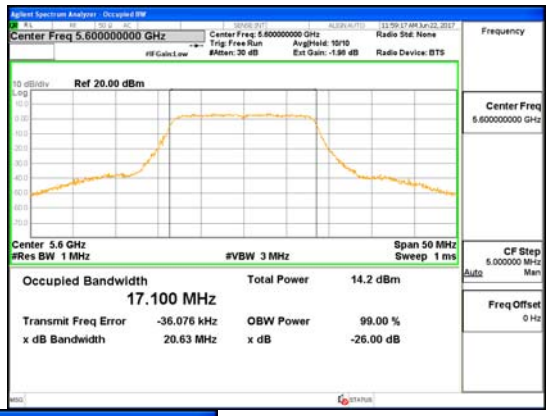


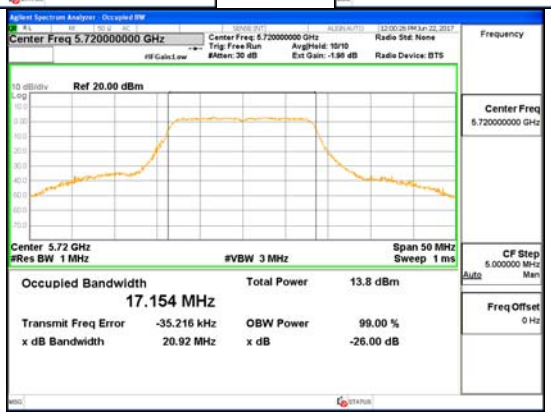




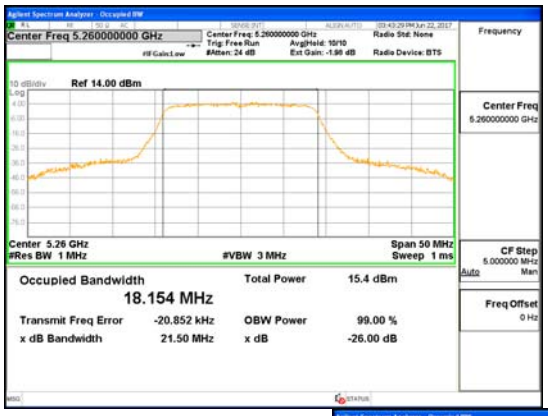
Ant 0_802.11a_UNII 2A

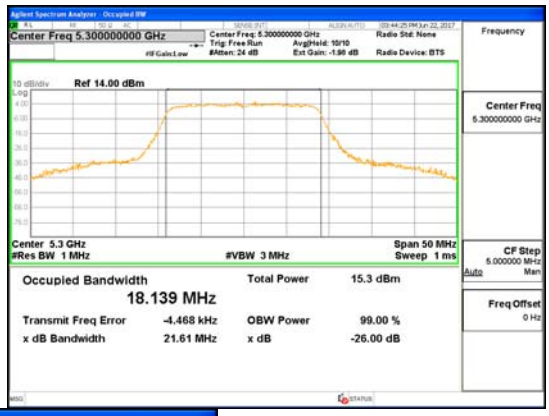


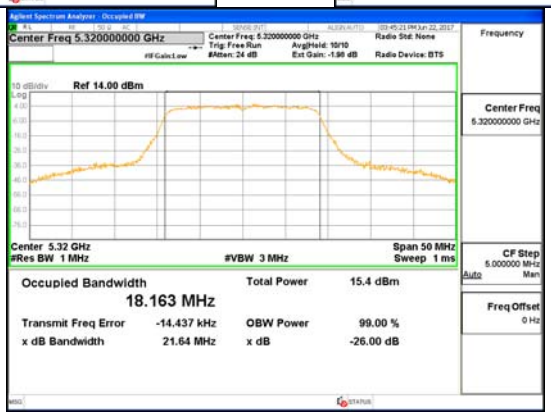




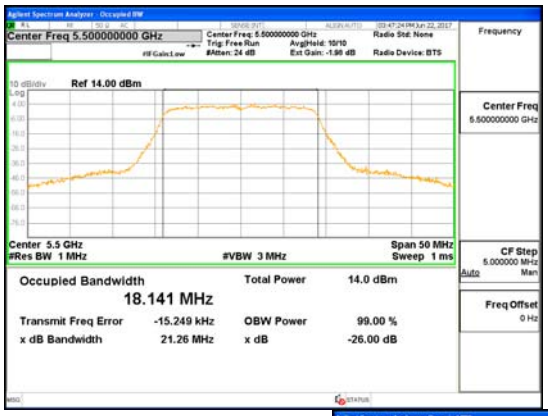
Ant 0_802.11a_UNII 2C

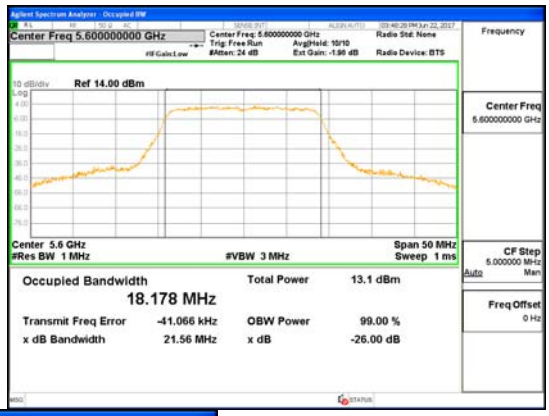


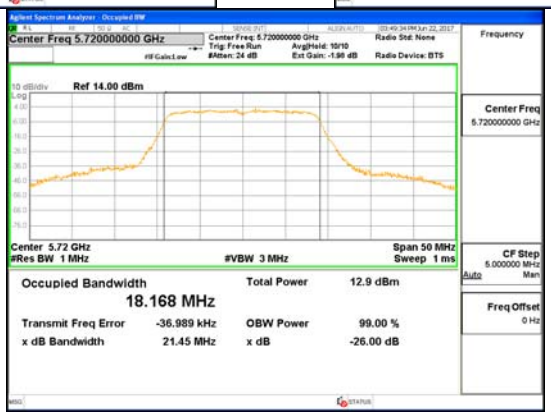




Ant 0_802.11n_HT20_UNII 2A







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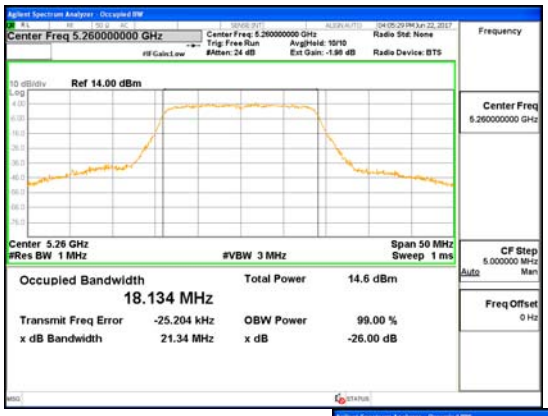

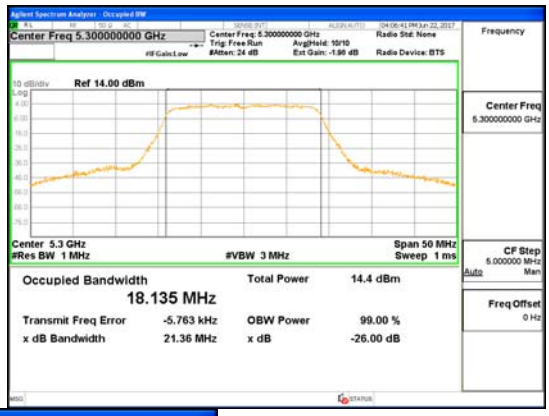

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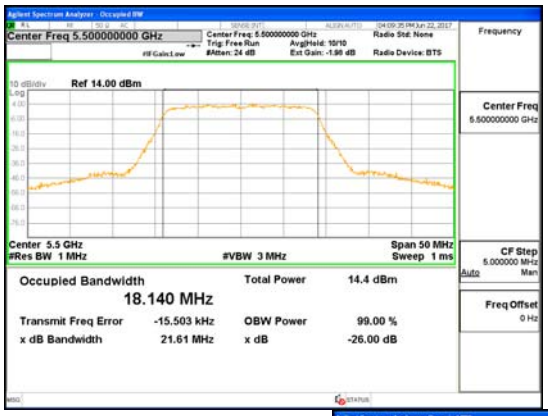

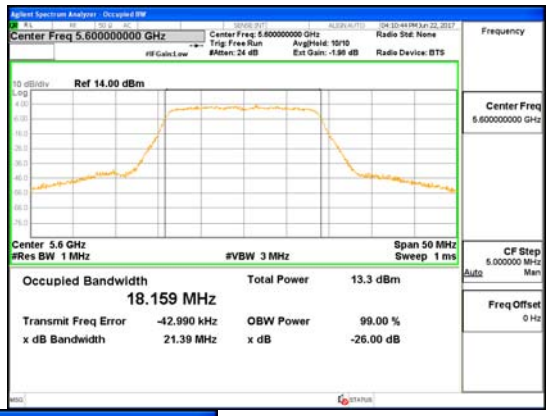

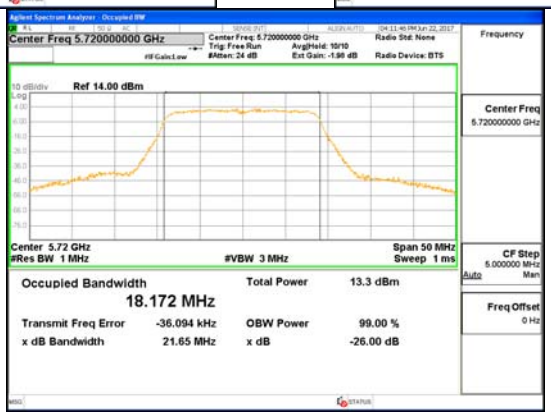

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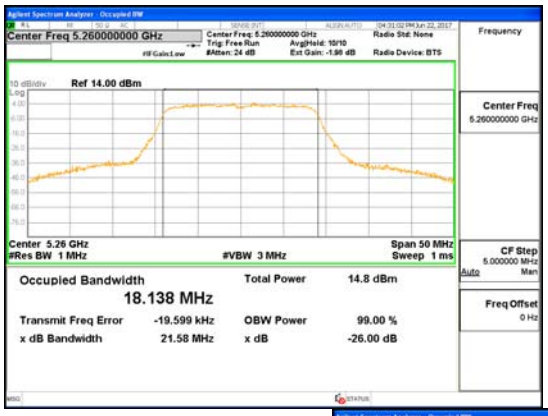

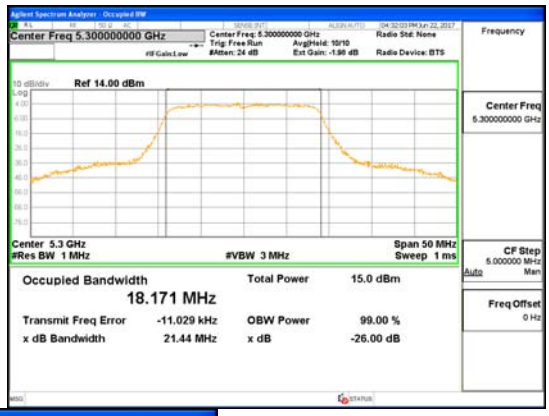

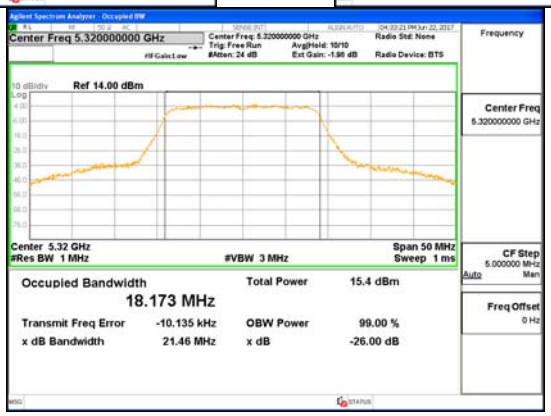

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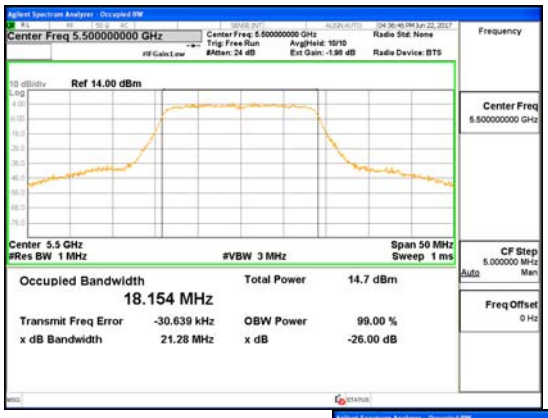

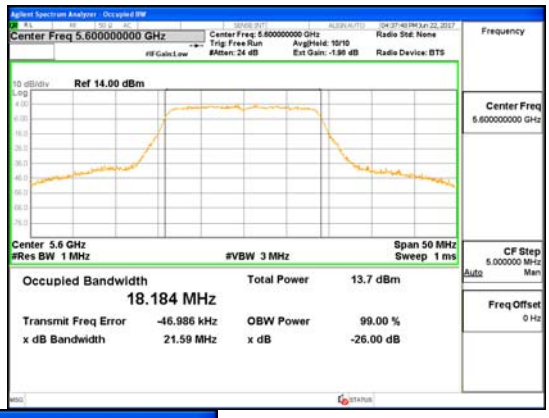

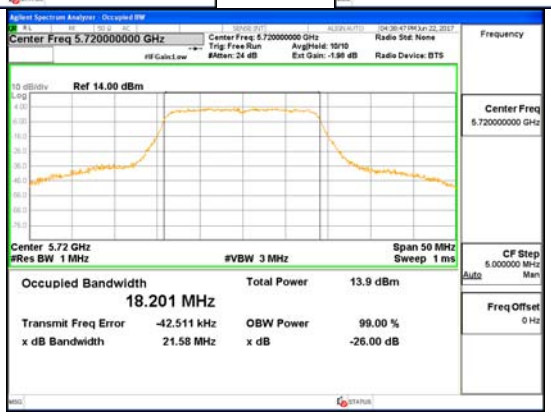

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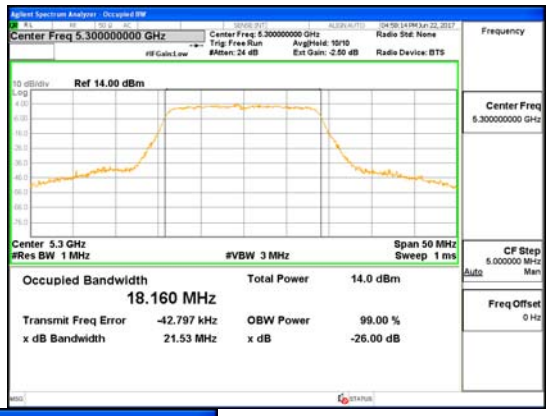

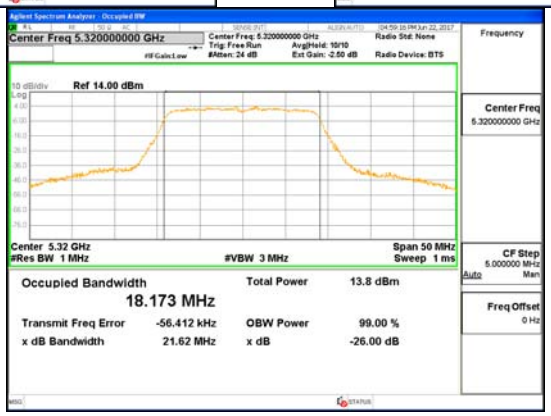

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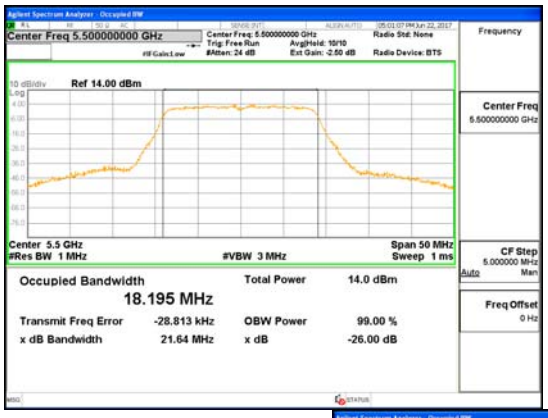

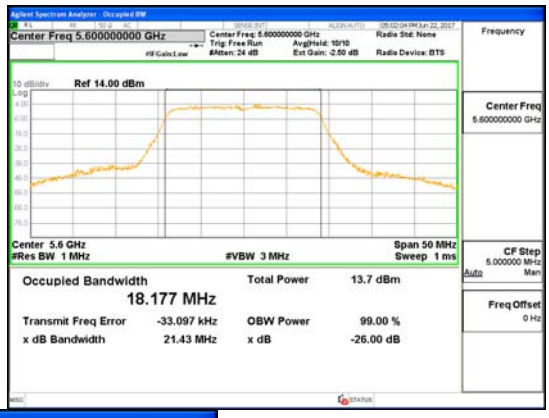

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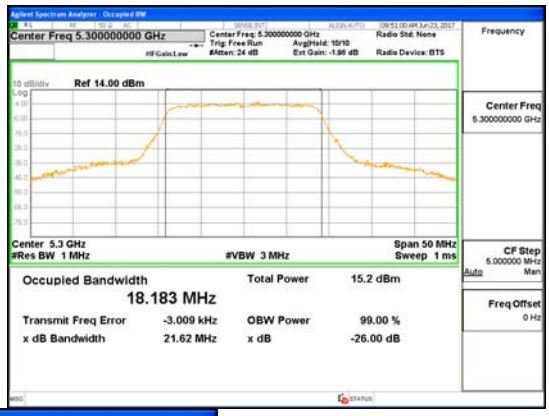

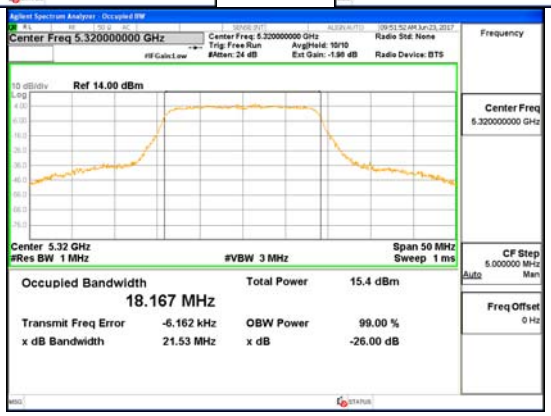

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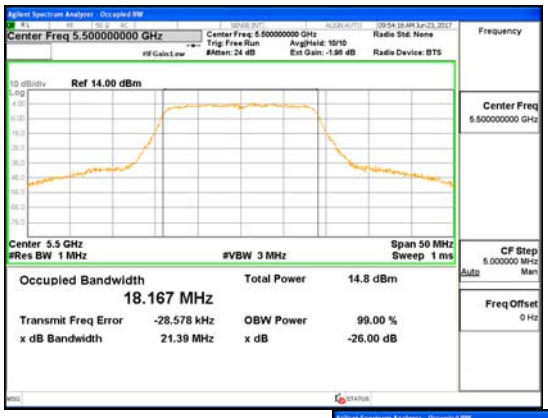

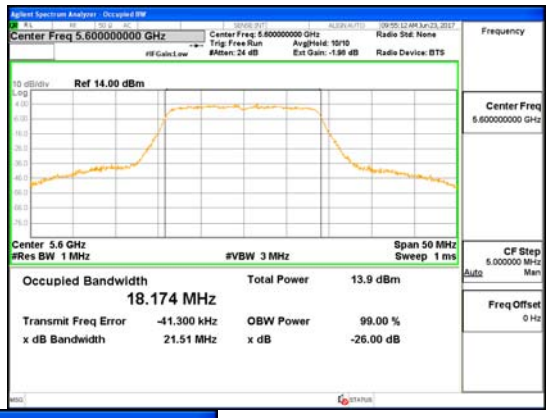

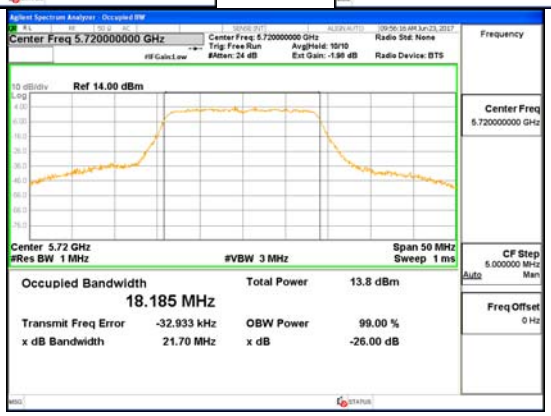

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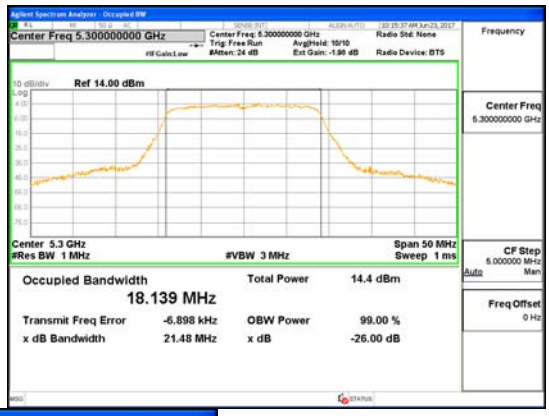
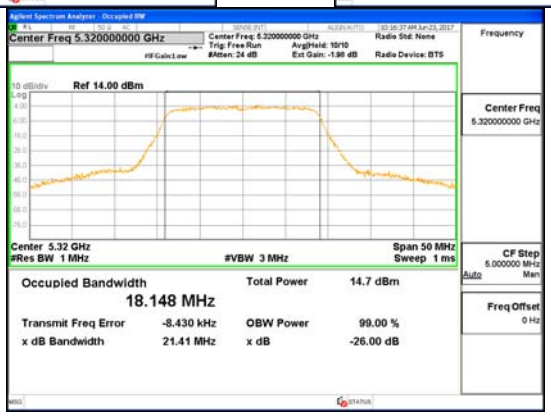
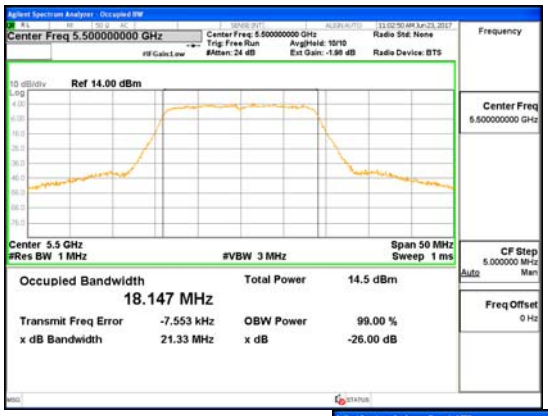
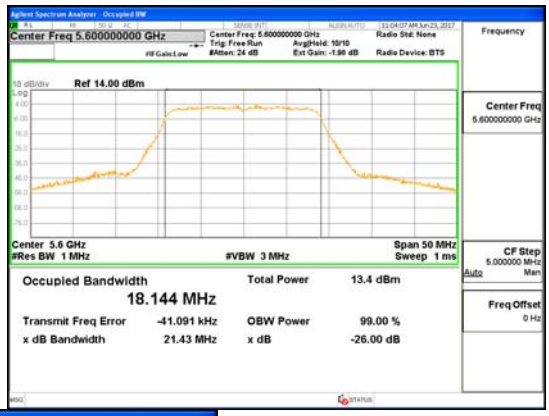
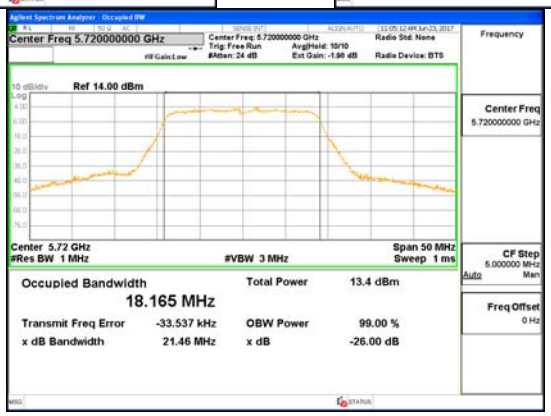




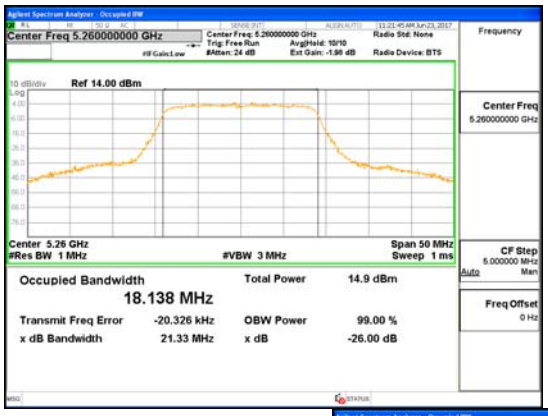
Ant 1_802.11ac_VHT20_UNII 2A

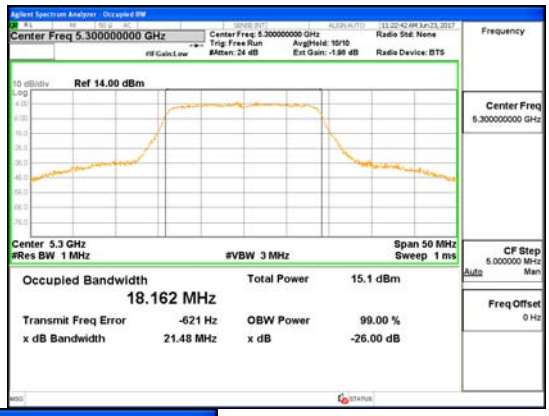


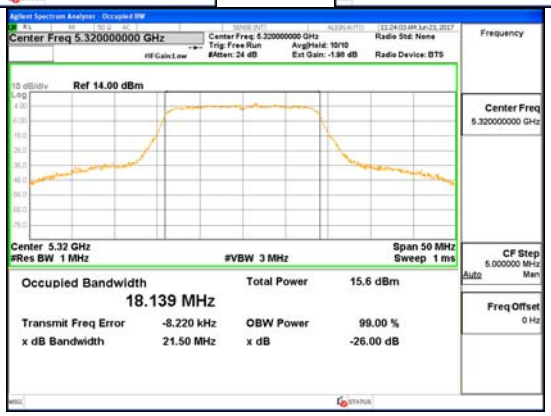




Ant 1_802.11ac_VHT20_UNII 2C







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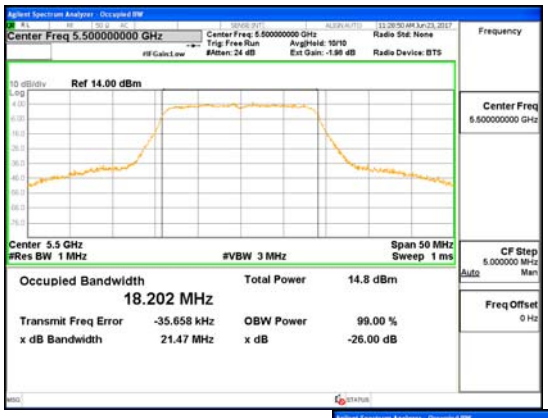

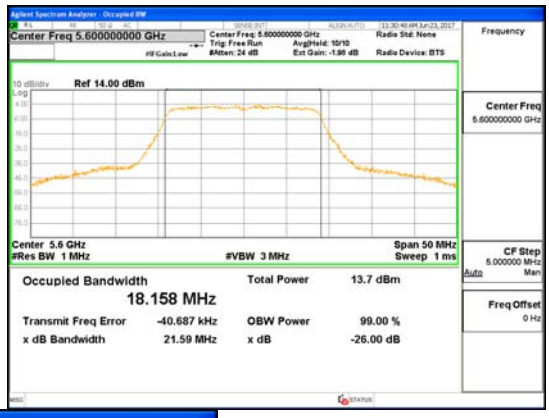

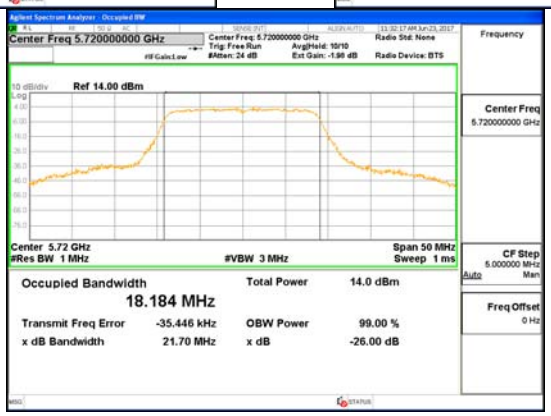

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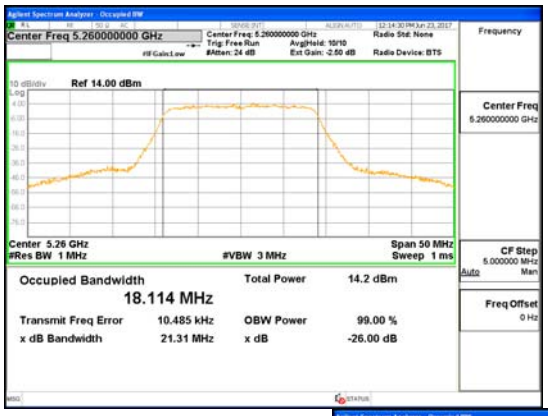

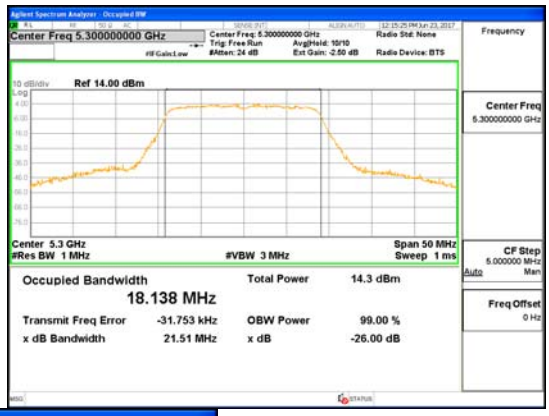

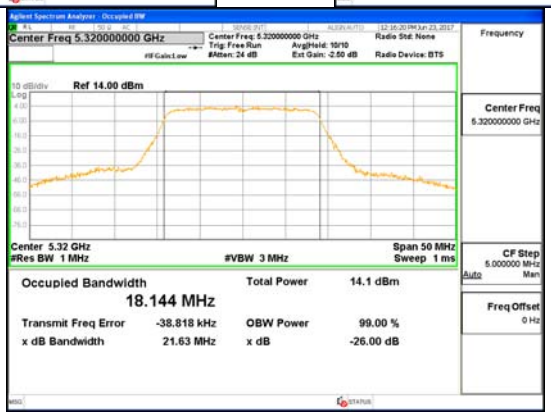

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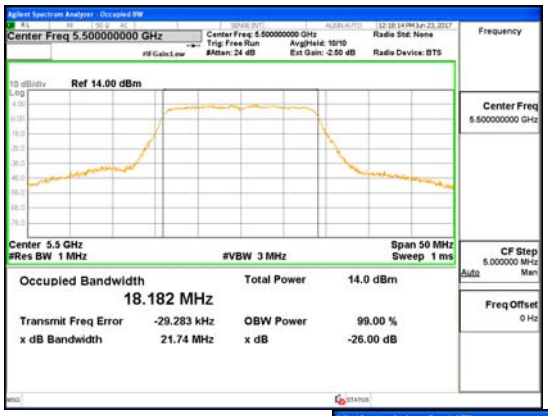
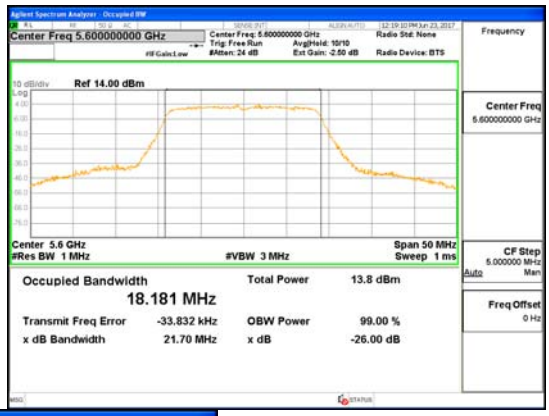
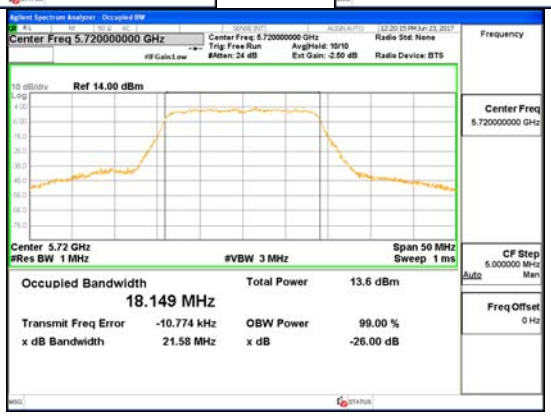
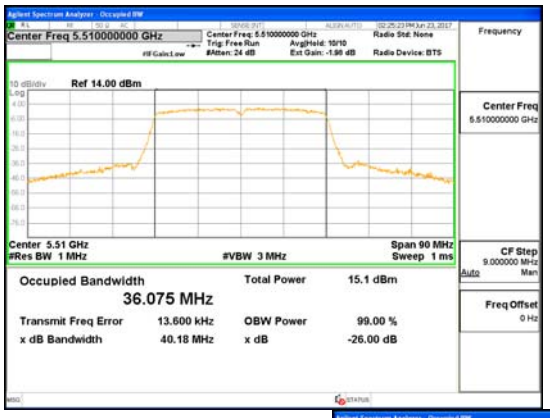


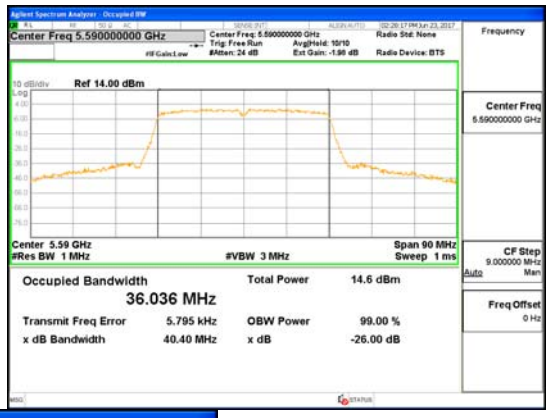


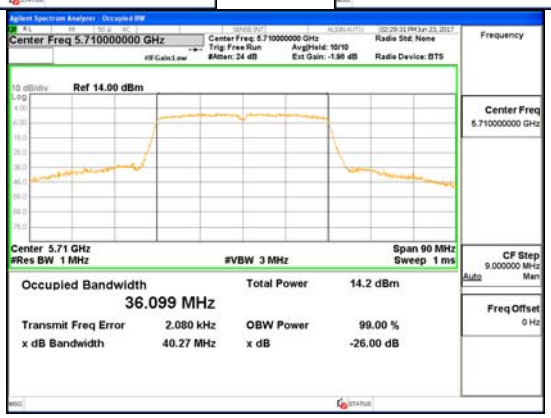


Ant 3_802.11ac_VHT20_UNII 2C

Ant 0_802.11n_HT40_UNII 2A

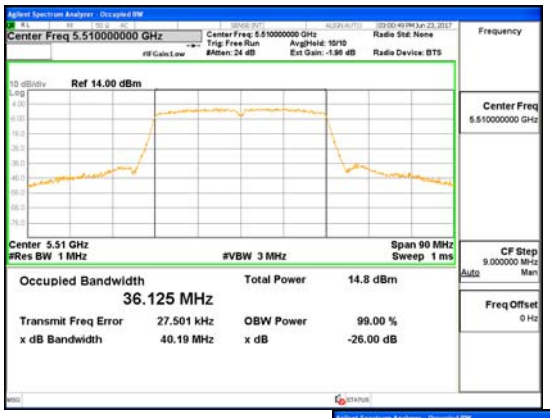


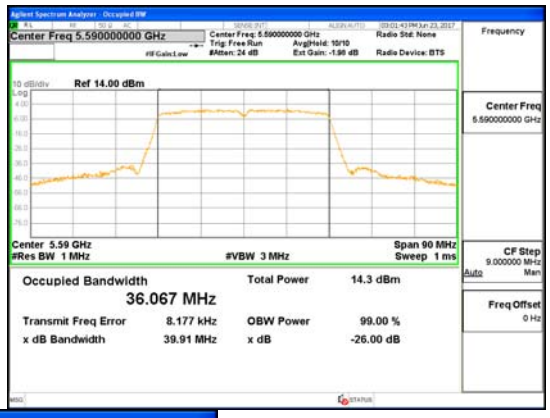


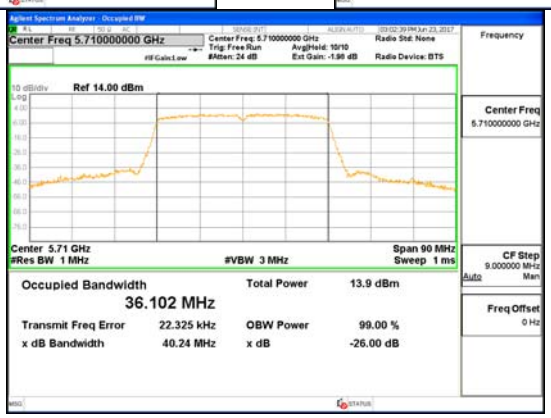


Ant 0_802.11n_HT40_UNII 2C

Ant 1_802.11n_HT40_UNII 2A

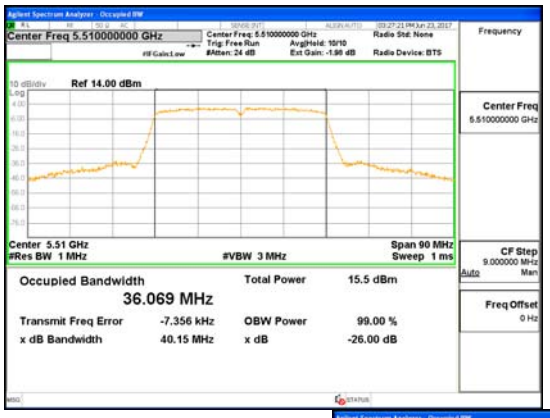


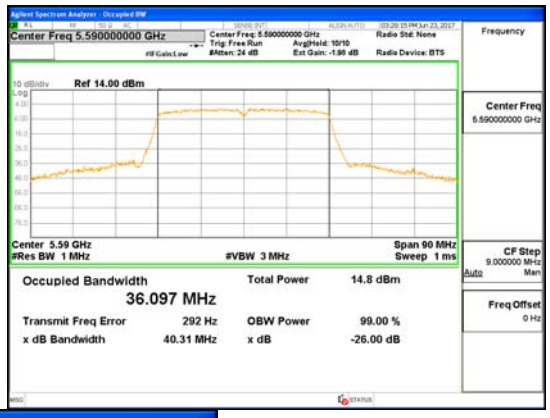


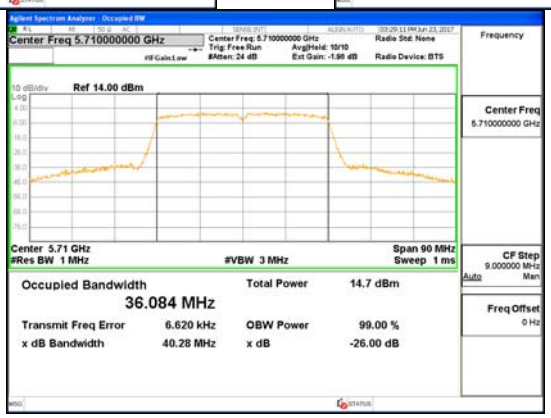


Ant 1_802.11n_HT40_UNII 2C

Ant 2_802.11n_HT40_UNII 2A

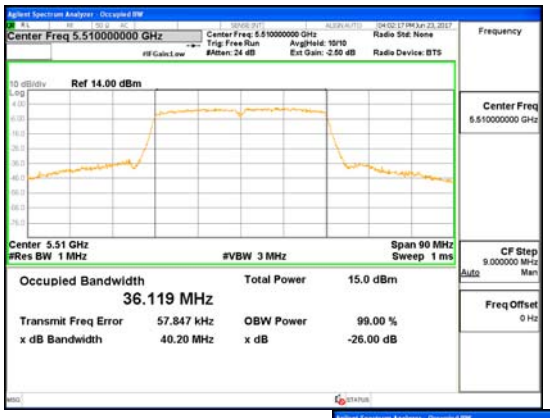


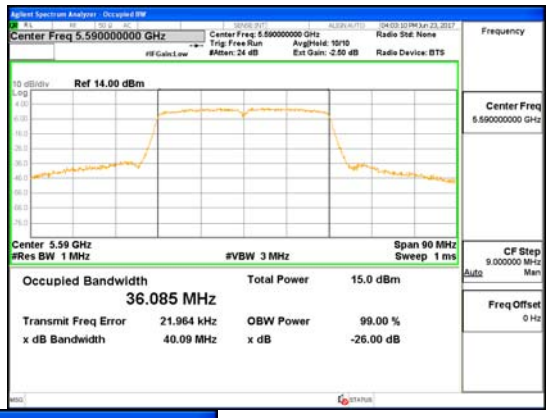


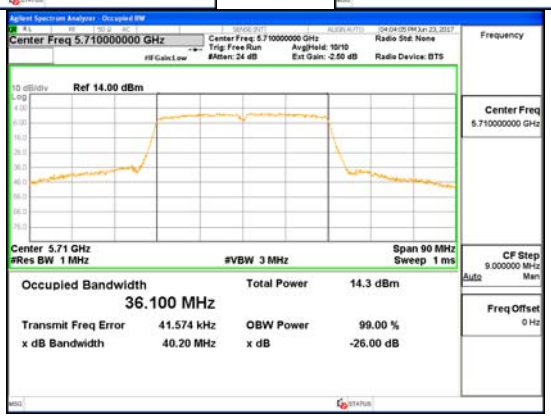


Ant 2_802.11n_HT40_UNII 2C

Ant 3_802.11n_HT40_UNII 2A

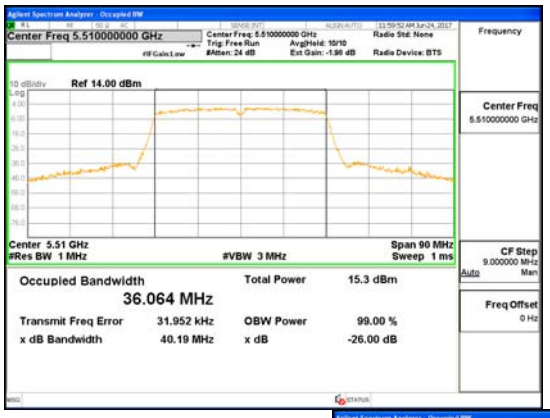


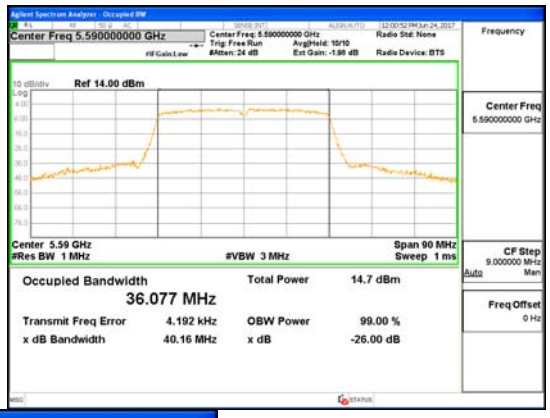


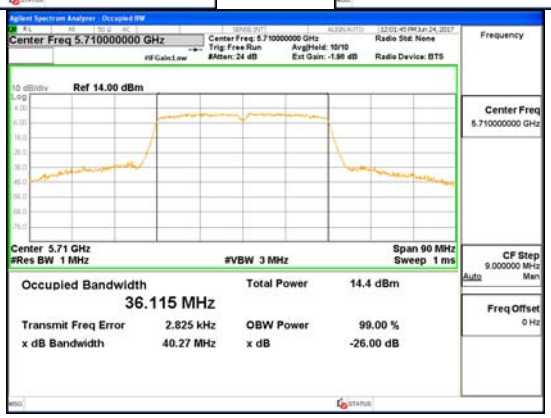


Ant 3_802.11n_HT40_UNII 2C

Ant 0_802.11ac_VHT40_UNII 2A

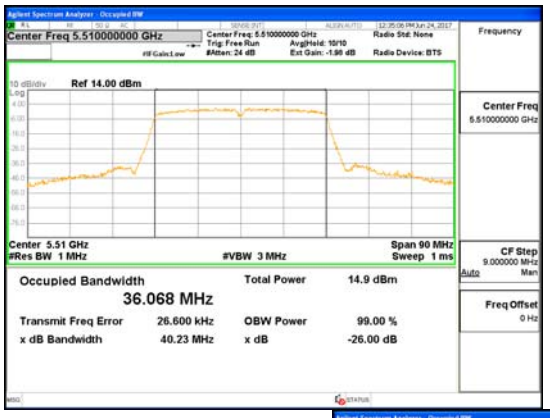


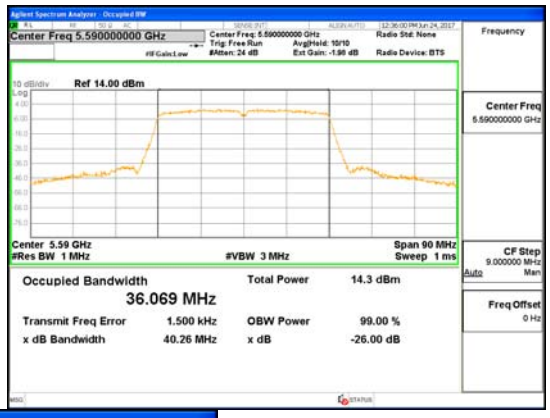


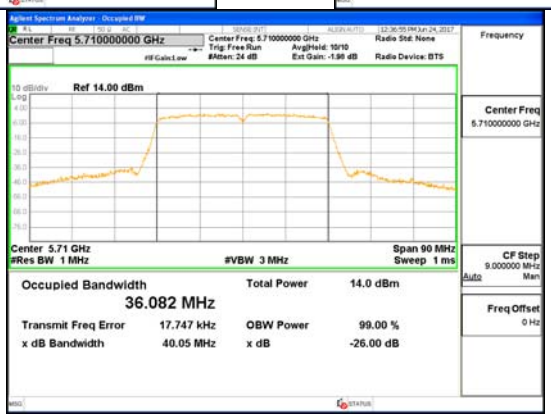


Ant 0_802.11ac_VHT40_UNII 2C

Ant 1_802.11ac_VHT40_UNII 2A

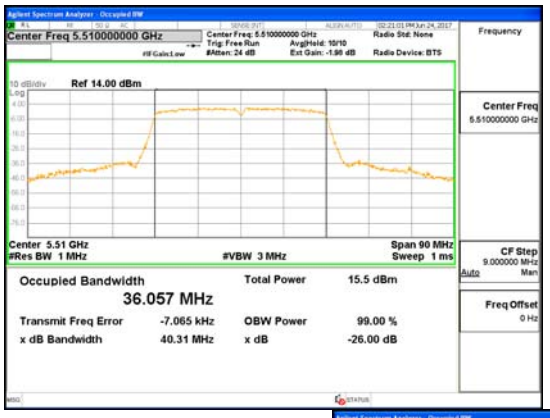


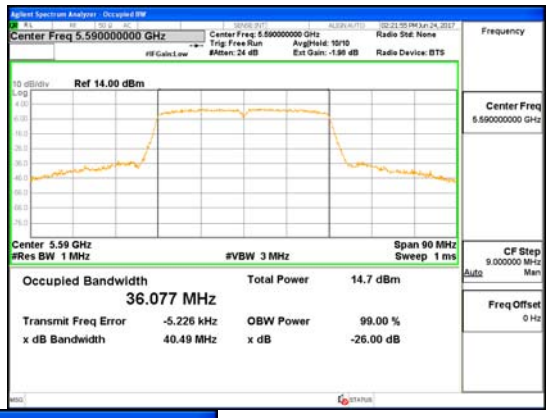


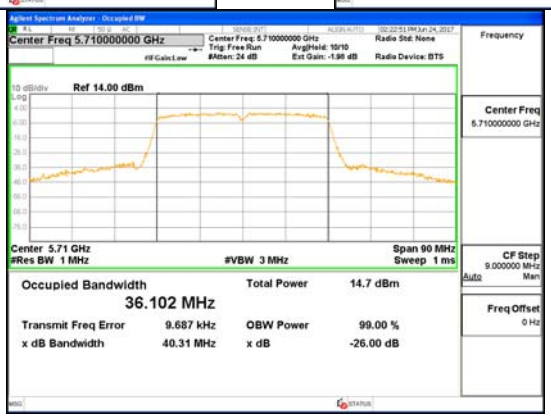


Ant 1_802.11ac_VHT40_UNII 2C

Ant 2_802.11ac_VHT40_UNII 2A

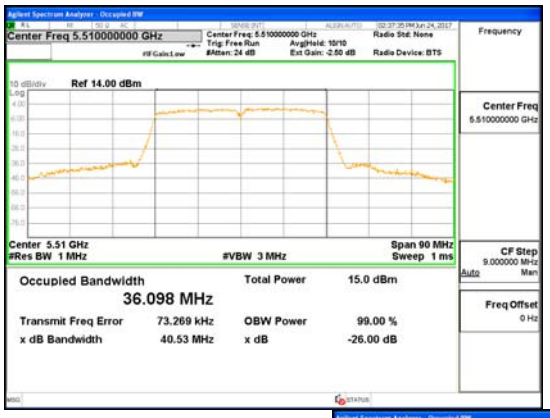


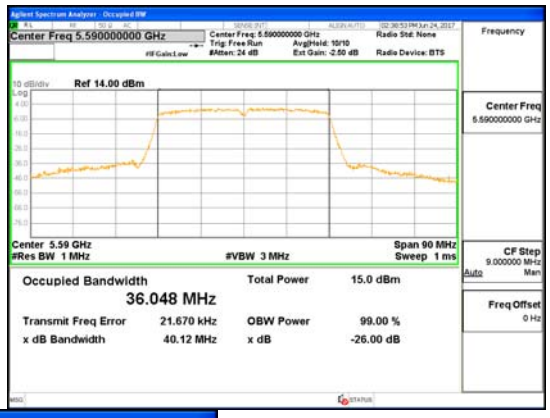


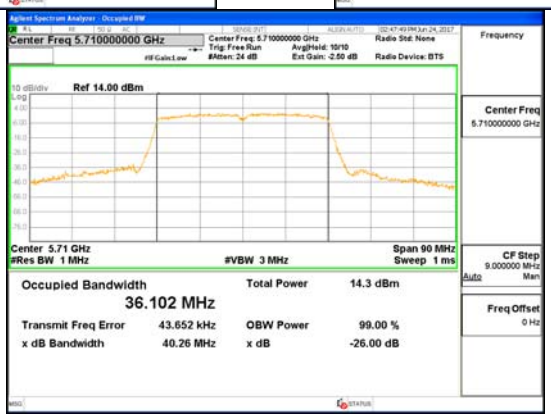


Ant 2_802.11ac_VHT40_UNII 2C

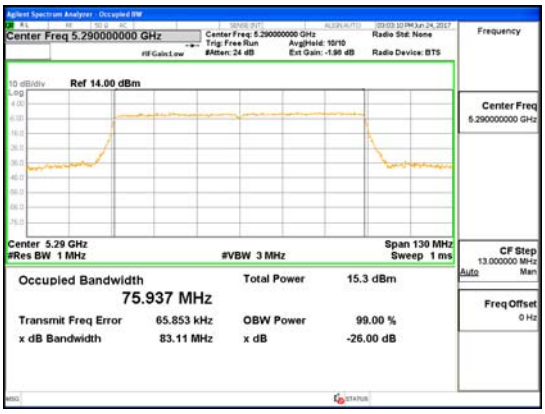
Ant 3_802.11ac_VHT40_UNII 2A



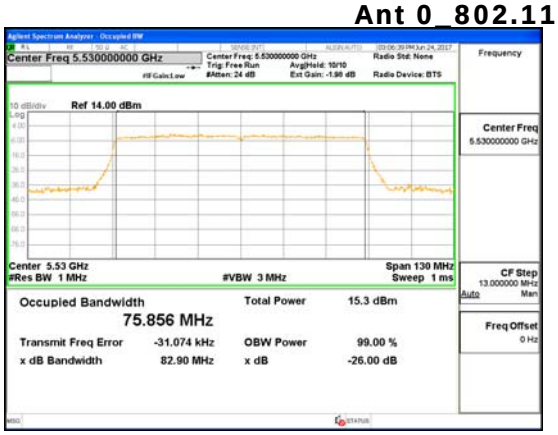


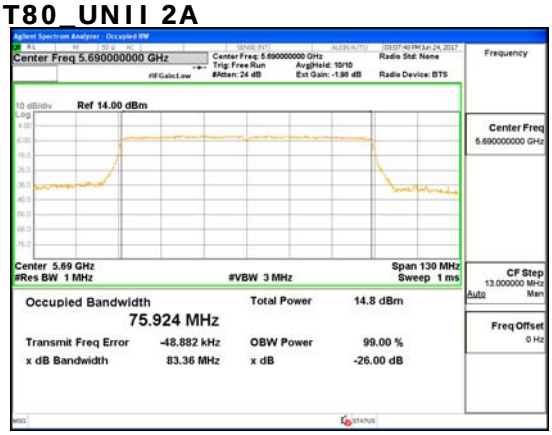


Ant 3_802.11ac_VHT40_UNII 2C



Ant 0_802.11ac_VHT80_UNII 2A





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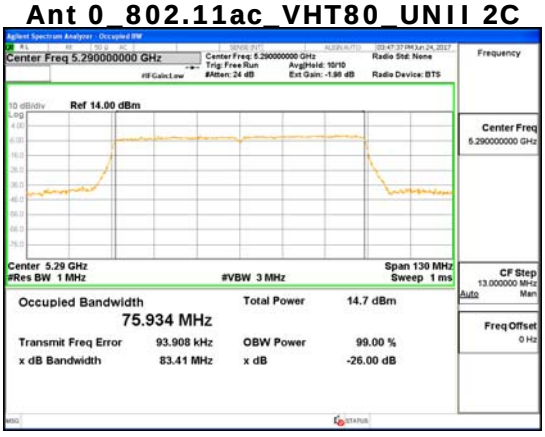
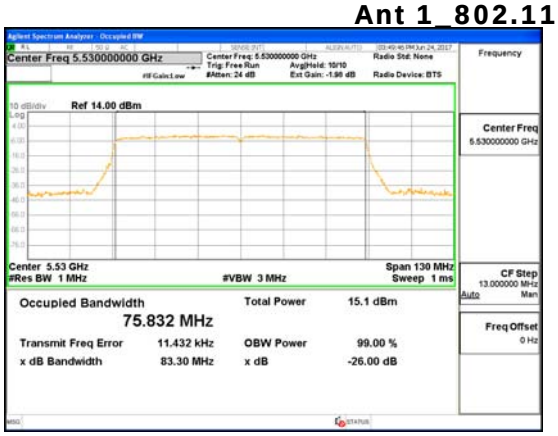
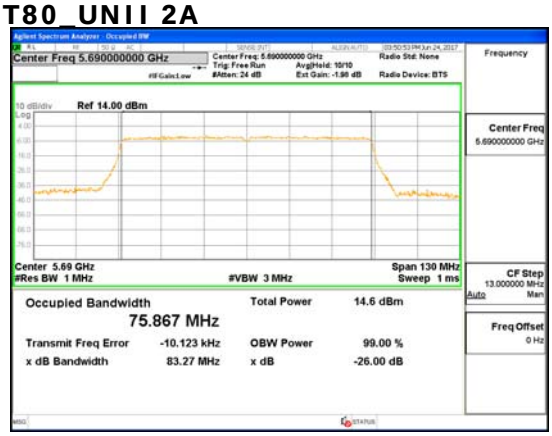
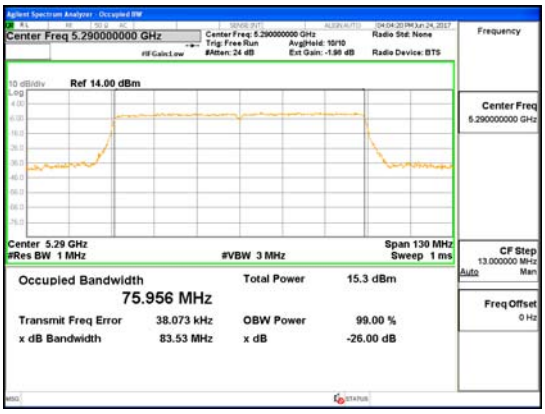


Ant 1_802.11ac_VHT80_UNII 2A

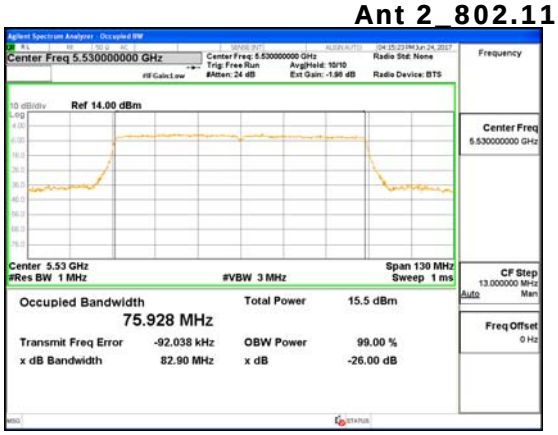


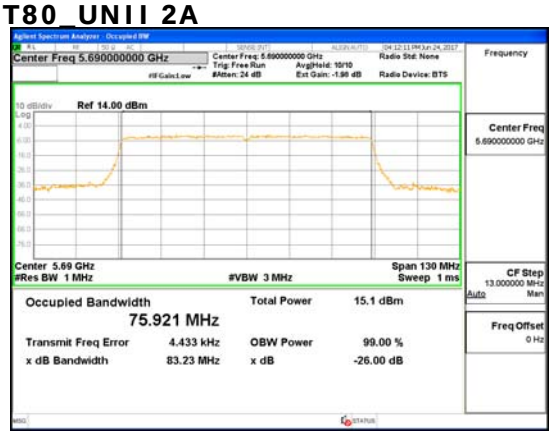


Ant 1_802.11ac_VHT80_UNII 2C

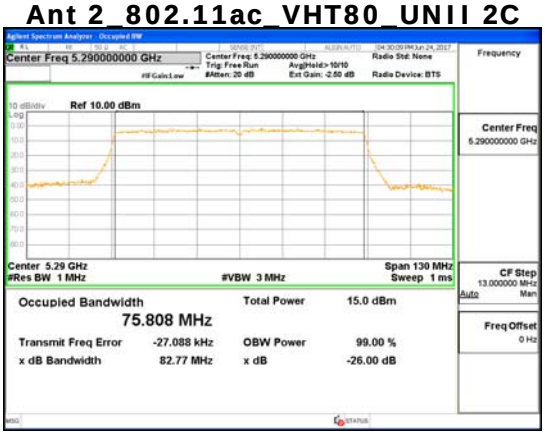


Ant 2_802.11ac_VHT80_UNII 2A

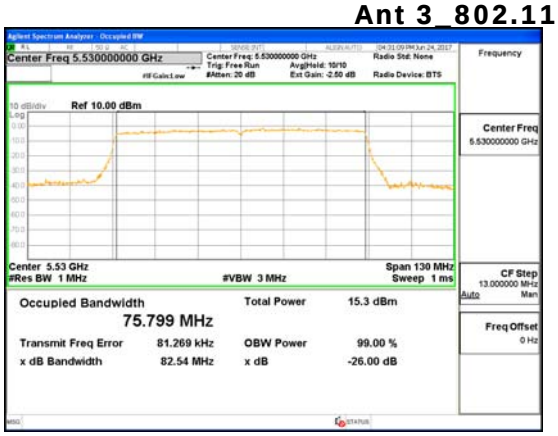


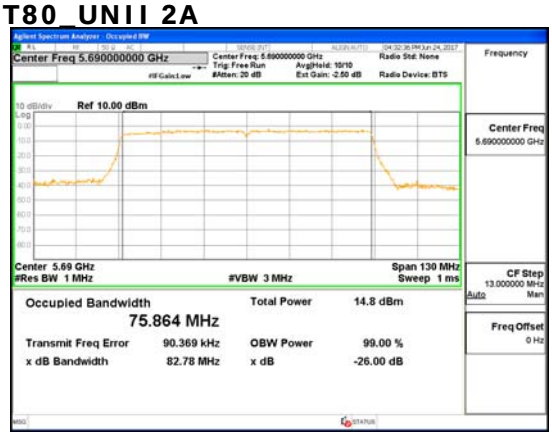


Ant 2_802.11ac_VHT80_UNII 2C

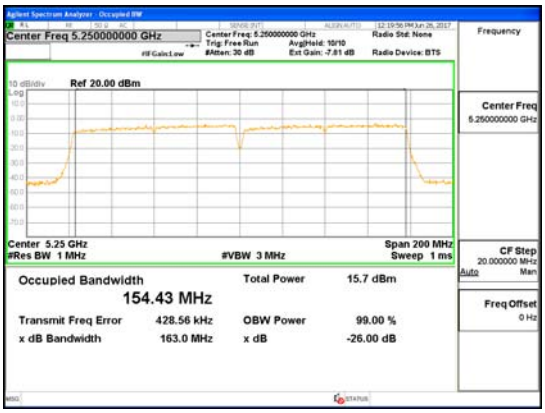


Ant 3_802.11ac_VHT80_UNII 2A

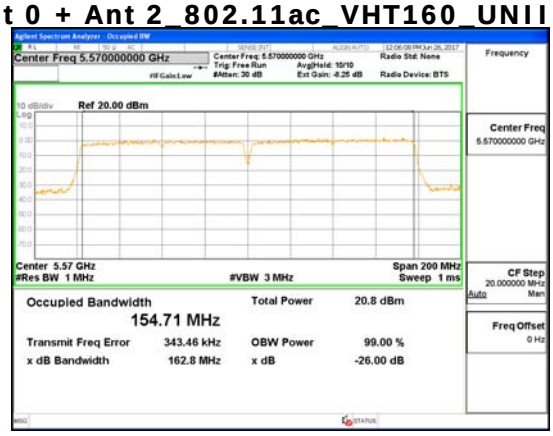




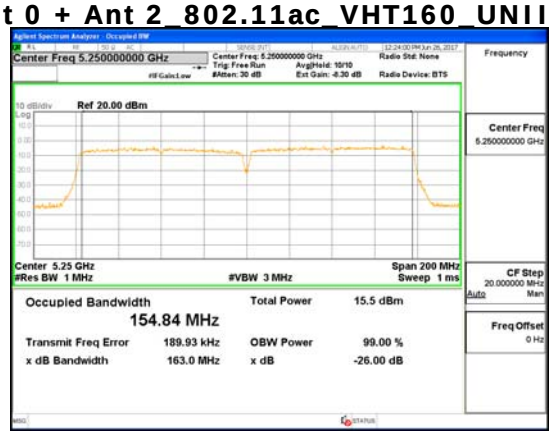
Ant 3_802.11ac_VHT80_UNII 2C



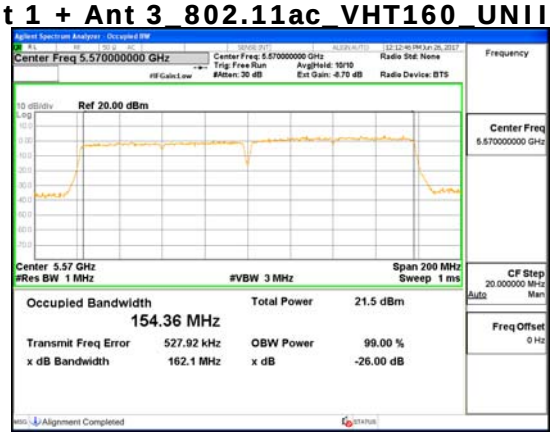
Ant 0 + Ant 2_802.11ac_VHT160_UNII 2A



Ant 0 + Ant 2_802.11ac_VHT160_UNII 2C



Ant 1 + Ant 3_802.11ac_VHT160_UNII 2A



Ant 1+ Ant 3_802.11ac_VHT160_UNII 2C