

TEST REPORT

Reference No. : WTS15S0832004-6E
FCC ID : 2AFJXA5UNLIMITED
Applicant : Ocean Coast Resources(HongKong) Limited
Address : Room 1501, 15/F, SPA Centre, 53-55 Lockhart Road, Wanchai, Hong Kong
Manufacturer : Uwin Innovation (Hongkong) Limited
Address : 206A, 2nd floor of No. 30 building, Wisdomland Business Park, 2nd road, Nantou Gate, NanShan District, ShenZhen P.R.C.
Product Name : Mobile Phone
Model No. : A5 UNLIMITED, NOW LTE OC55
Brand : AUDINAC(A5 UNLIMITED), I-modo(NOW LTE OC55)
Standards : FCC CFR47 Part 15 C Section 15.407:2014
Date of Receipt sample : Aug. 18, 2015
Date of Test : Aug. 21 – Sep.06, 2015
Date of Issue : Sep.10, 2015
Test Result : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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2 Test Summary

Test Items	Test Requirement	Result
Conducted Emissions	15.207(a)	PASS
Radiated Emissions	15.407(a) 15.205(a) 15.209(a)	PASS
Duty Cycle	KDB 789033	--
6dB Bandwidth	15.407(a)	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	15.407(a)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Restricted bands around fundamental frequency	15.407(a)	PASS
Antenna Requirement	15.203	PASS
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

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4 General Information

4.1 General Description of E.U.T.

Product Name	: Mobile Phone
Model No.	: A5 UNLIMITED, NOW LTE OC55
Model Description	: Only model number and brand name are different
GSM Band(s)	: GSM 850/900/1800/1900MHz
GPRS/EGPRS Class	: 12
WCDMA Band(s)	: FDD Band II/V
LTE Bnad(s)	: LTE Band 4
Wi-Fi Specification	: 2.4G: 802.11b/g/n HT20/n HT40 5G Band I: 802.11a/ n HT20/ n HT40 5G Band IV: 802.11a/ n HT20/ n HT40
Bluetooth Version	: Bluetooth v4.0 with BLE
GPS	: Support
NFC	: N/A
Hardware Version	: ALPS.L1.MP3.V2.0_KLINK6735.64.L1_P9
Software Version	: MT6735_QF506Ah.2015081309

4.2 Details of E.U.T.

Operation Frequency	: GSM/GPRS/EGPRS 850: 824~849MHz PCS/GPRS/EGPRS1900: 1850~1910MHz WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz LTE Band 4: 1710~1755MHz WiFi: 802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz 802.11a/ n(HT20/40): 5150MHz~5250MHz 802.11a/ n(HT20/40): 5725MHz~5850MHz Bluetooth: 2402~2480MHz
Max. RF output power	: GSM 850: 32.39dBm EGPRS 850: 27.74dBm PCS1900:29.44dBm EGPRS 1900:26.85dBm WCDMA Band II: 22.79dBm WCDMA Band V: 22.60dBm LTE Band 4: 22.94dBm WiFi(2.4G): 9.44dBm WiFi(5G): 6.97dBm Bluetooth: 6.33dBm
Type of Modulation	: GSM,GPRS: GMSK EGPRS: GMSK, 8PSK WCDMA: BPSK LTE: QPSK, 16QAM

WiFi: CCK, OFDM

Bluetooth: GFSK, Pi/4 DQPSK, 8DPSK

Antenna installation	: GSM/WCDMA/LTE: internal permanent antenna WiFi/Bluetooth: internal permanent antenna
Antenna Gain	: GSM 850: 0.9dBi PCS1900: 1.4dBi WCDMA Band II: 1.4dBi WCDMA Band V: 0.9dBi LTE Band 4: 1.4dBi WiFi: 2.0dBi Bluetooth: 2.0dBi
Technical Data	: Battery DC 3.8V, 2500mAh DC 5V, 1000mA, Charging form adapter (Adapter Input: 100-240V~50/60Hz, 0.2A)
Adapter	: Manufacture: iSWAG

4.3 Channel List

Band I (5.15-5.25GHz)		Band IV (5.725-5.85GHz)	
channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	149	5745
38	5190	151	5755
40	5200	153	5765
42	5210	155	5775
44	5220	157	5785
46	5230	159	5795
48	5240	161	5805
		165	5825

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11a/n(HT20):

channel	Frequency(MHz)	channel	Frequency(MHz)
36	5180	149	5745
40	5200	157	5785
48	5240	165	5825

For 802.11 n(HT40):

channel	Frequency(MHz)	channel	Frequency(MHz)
38	5190	151	5755
/	/	159	5795

4.4 Test Facility

The test facility has a test site registered with the following organizations:

- **IC – Registration No.: 7760A-1**

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A-1, July 12, 2012.

- **FCC Test Site 1#– Registration No.: 880581**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

5 Equipment Used during Test

5.1 Equipments List

Conducted Emissions Test Site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	100947	Sep.15,2014	Sep.14,2015
2.	LISN	R&S	ENV216	101215	Sep.15,2014	Sep.14,2015
3.	Cable	Top	TYPE16(3.5M)	-	Sep.15,2014	Sep.14,2015
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.15,2014	Sep.14,2015
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.15,2014	Sep.14,2015
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.15,2014	Sep.14,2015
4.	Cable	LARGE	RF300	-	Sep.15,2014	Sep.14,2015
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2014	Sep.14,2015
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2015	Apr.18,2016
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.15,2014	Sep.14,2015
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2015	Apr.18,2016
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2015	Apr.18,2016
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2015	Mar.16,2016
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2015	Apr.09,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Sep.15,2014	Sep.14,2015
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2014	Sep.14,2015
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.15,2014	Sep.14,2015
4	Cable	HUBER+SUHNER	CBL2	525178	Sep.15,2014	Sep.14,2015
RF Conducted Testing						

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.15,2014	Sep.14,2015
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Sep.15,2014	Sep.14,2015
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.15,2014	Sep.14,2015

5.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	± 1.0 dB
RF Power Density	± 2.2 dB
Radiated Spurious Emissions test	± 5.03 dB (30M~1000MHz)
	± 5.47 dB (1000M~25000MHz)
Conducted Spurious Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

6 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.4:2009
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)

6.1 E.U.T. Operation

Operating Environment :

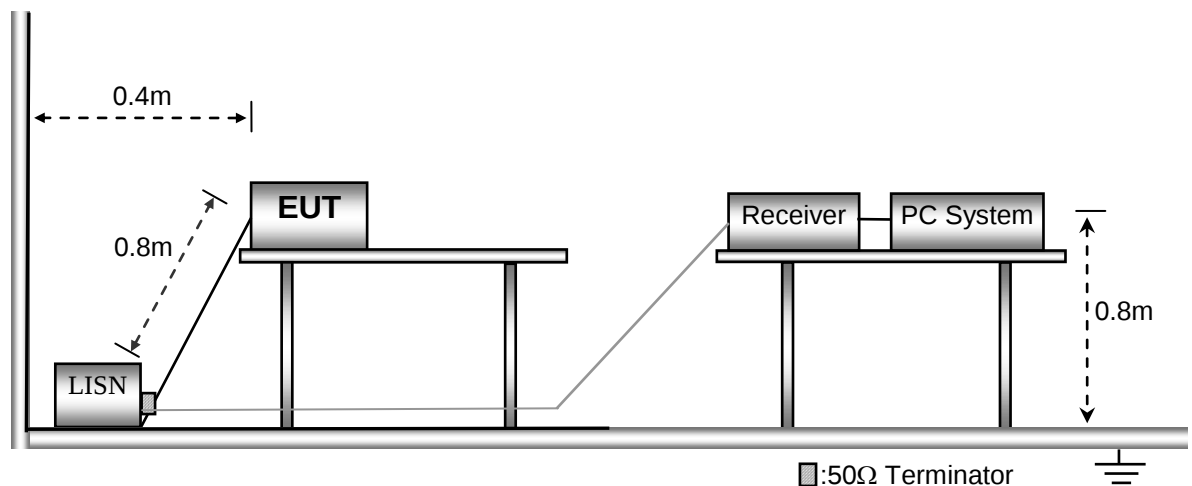
Temperature:	21.5 °C
Humidity:	51.9 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

6.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.4.



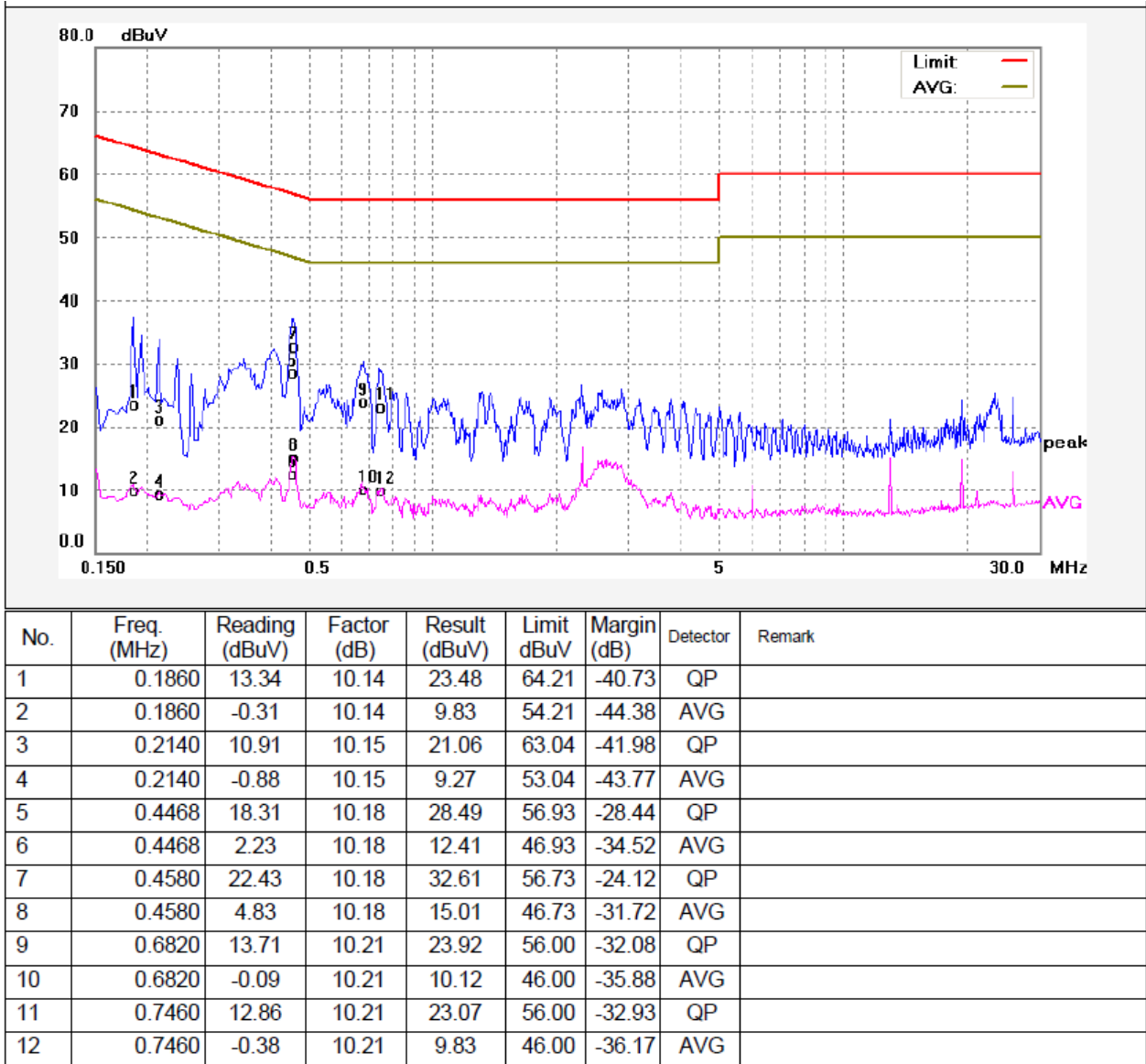
6.3 Measurement Description

The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

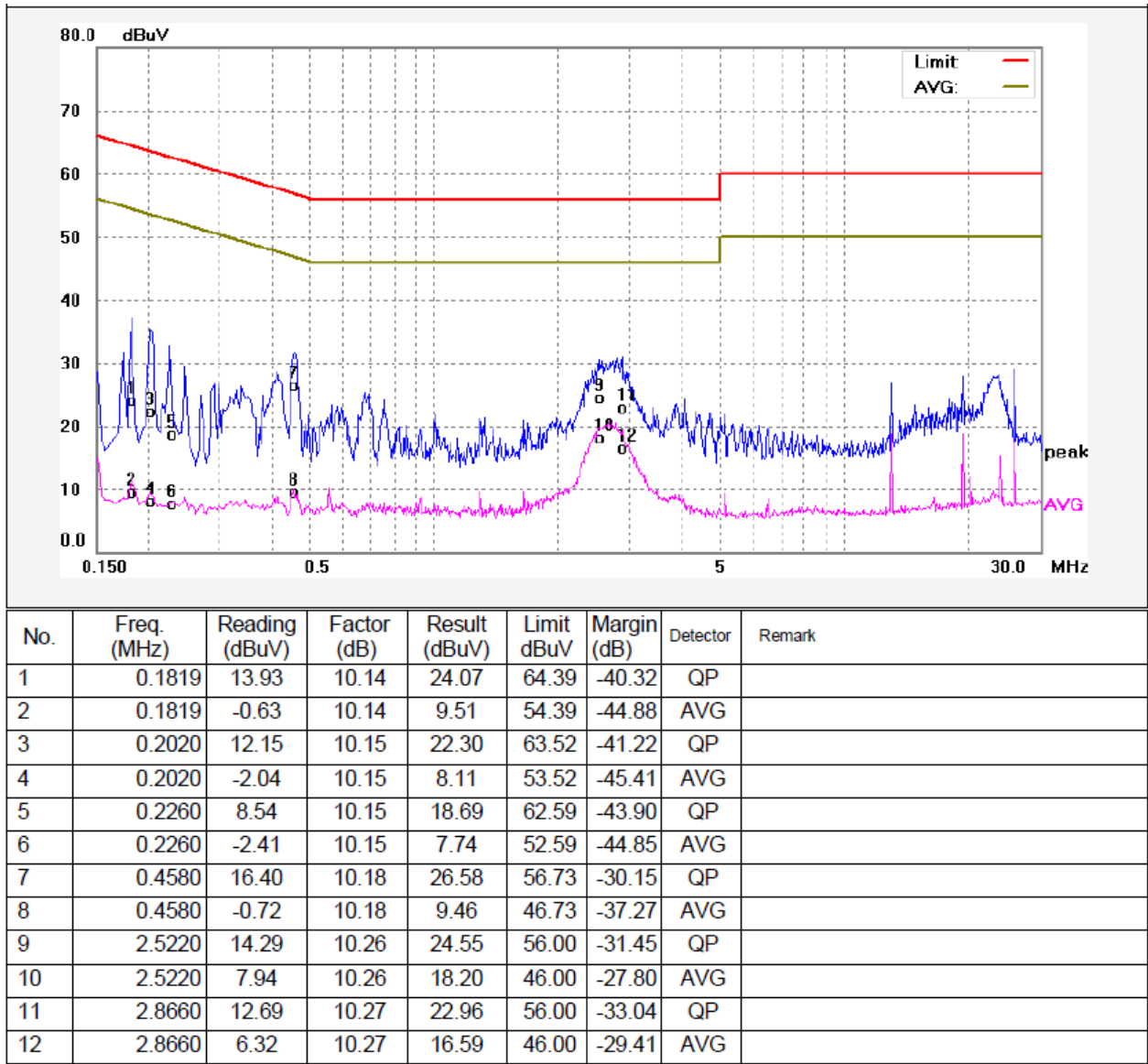
6.4 Conducted Emission Test Result

An initial pre-scan was performed on the live and neutral lines.

Live line:



Neutral line:



7 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.407

Test Method: ANSI C63.4:2009

Test Result: PASS

Measurement Distance: 3m

Limit:

Frequency (MHz)	Field Strength		Field Strength Limit at 3m Measurement Dist	
	uV/m	Distance (m)	uV/m	dBuV/m
0.009 ~ 0.490	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

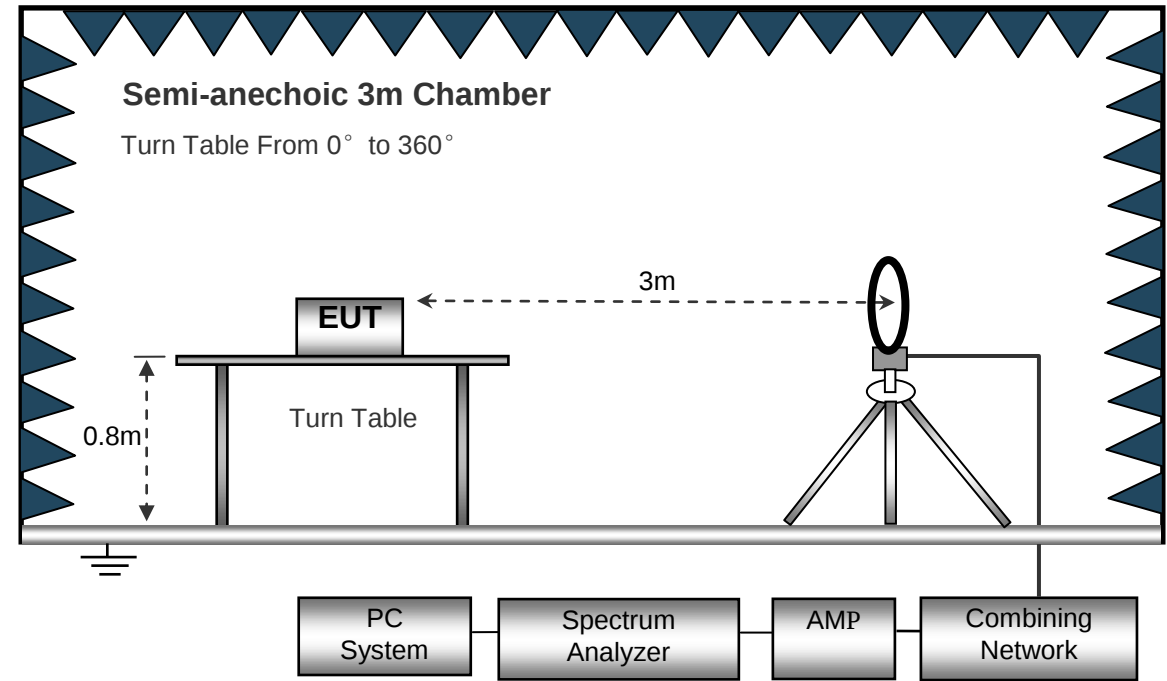
EUT Operation :

The test was performed in transmitting mode, the test data were shown in the report.

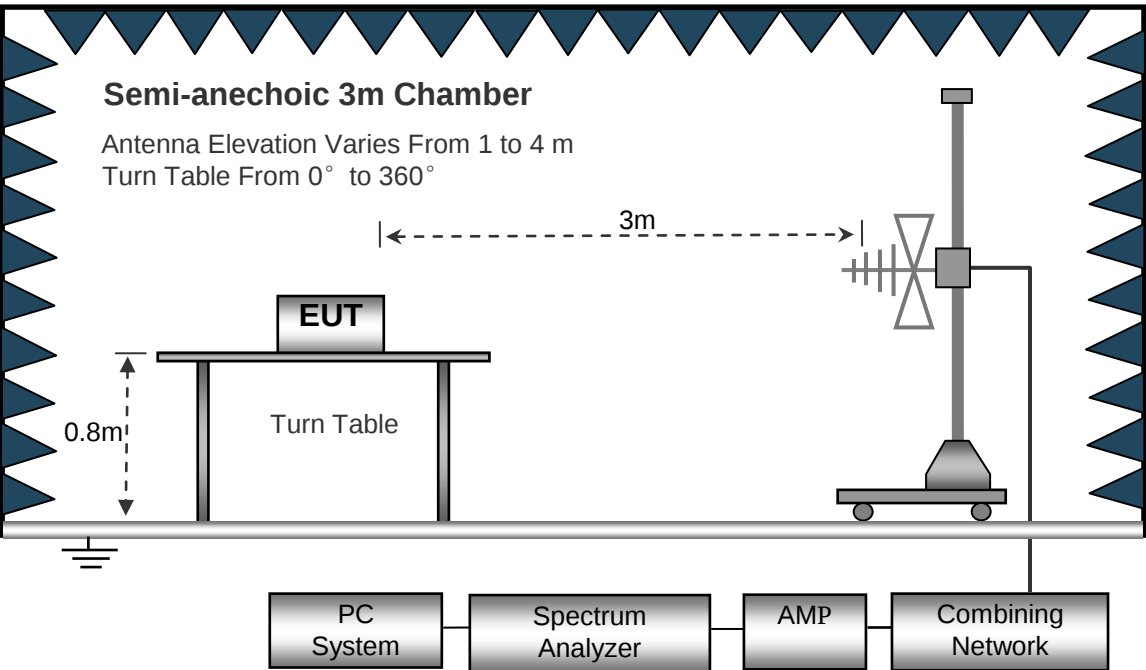
7.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.4.

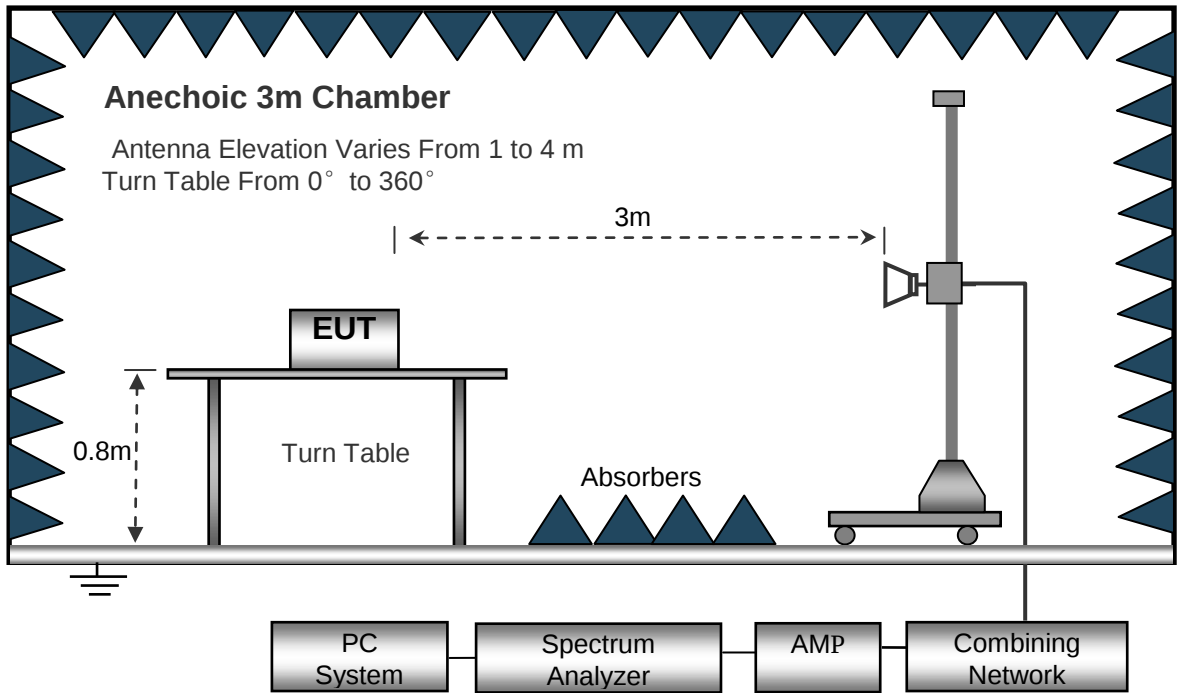
The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.



The test setup for emission measurement above 1 GHz.



7.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed Auto
IF Bandwidth.....10kHz
Video Bandwidth.....10kHz
Resolution Bandwidth.....10kHz

30MHz ~ 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....100kHz
Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
DetectorPK
Resolution Bandwidth.....1MHz
Video Bandwidth.....3MHz
DetectorAve.
Resolution Bandwidth.....1MHz
Video Bandwidth.....10Hz

7.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in X axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used druing radiated emissions above 1GHz measurement.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

The “Margin” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

7.5 Summary of Test Results

Test Frequency : 30MHz ~ 18GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a band I Low Channel 5180MHz									
333.45	41.05	QP	133	1.4	H	-11.62	29.43	46.00	-16.57
333.45	36.26	QP	8	1.0	V	-11.62	24.64	46.00	-21.36
4505.64	50.44	PK	282	1.5	H	-2.03	48.41	74.00	-25.59
4505.64	46.32	Ave	282	1.5	H	-2.03	44.29	54.00	-9.71
5141.53	52.53	PK	105	1.1	H	-1.02	51.51	74.00	-22.49
5141.53	48.18	Ave	105	1.1	H	-1.02	47.16	54.00	-6.84
10360.00	41.08	PK	137	1.7	H	5.33	46.41	74.00	-27.59
10360.00	36.85	Ave	137	1.7	H	5.33	42.18	54.00	-11.82
5376.95	44.27	PK	5	1.7	H	-1.04	43.23	74.00	-30.77
5376.95	37.88	Ave	5	1.7	H	-1.04	36.84	54.00	-17.16

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a band I middle channel 5200MHz									
333.45	41.10	QP	229	1.6	H	-11.62	29.48	46.00	-16.52
333.45	36.34	QP	250	1.8	V	-11.62	24.72	46.00	-21.28
4505.47	49.20	PK	76	1.6	H	-1.94	47.26	74.00	-26.74
4505.47	45.99	Ave	76	1.6	H	-1.94	44.05	54.00	-9.95
5145.45	51.91	PK	311	1.2	H	-1.06	50.85	74.00	-23.15
5145.45	49.33	Ave	311	1.2	H	-1.06	48.27	54.00	-5.73
10400.00	42.26	PK	329	1.6	H	5.21	47.47	74.00	-26.53
10400.00	36.54	Ave	329	1.6	H	5.21	41.75	54.00	-12.25
5366.62	45.61	PK	229	1.0	H	-1.06	44.55	74.00	-29.45
5366.62	38.28	Ave	229	1.0	H	-1.06	37.22	54.00	-16.78

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a band I High channel 5240MHz									
333.45	41.24	QP	315	1.9	H	-11.62	29.62	46.00	-16.38
333.45	37.14	QP	184	1.7	V	-11.62	25.52	46.00	-20.48
4513.25	47.97	PK	31	1.1	H	-2.24	45.73	74.00	-28.27
4513.25	45.50	Ave	31	1.1	H	-2.24	43.26	54.00	-10.74
5144.20	53.61	PK	146	1.5	H	-1.06	52.55	74.00	-21.45
5144.20	48.96	Ave	146	1.5	H	-1.06	47.90	54.00	-6.10
10480.00	41.30	PK	32	1.8	H	5.14	46.44	74.00	-27.56
10480.00	37.11	Ave	32	1.8	H	5.14	42.25	54.00	-11.75
5370.23	46.87	PK	34	1.4	H	-1.08	45.79	74.00	-28.21
5370.23	38.69	Ave	34	1.4	H	-1.08	37.61	54.00	-16.39

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a band IV low Channel 5745MHz									
333.45	40.96	QP	103	1.3	H	-11.62	29.34	46.00	-16.66
333.45	35.73	QP	167	1.6	V	-11.62	24.11	46.00	-21.89
4520.94	48.29	PK	282	1.8	H	-2.06	46.23	74.00	-27.77
4520.94	44.42	Ave	282	1.8	H	-2.06	42.36	54.00	-11.64
11490.00	39.99	PK	240	1.3	H	5.93	45.92	74.00	-28.08
11490.00	37.95	Ave	240	1.3	H	5.93	43.88	54.00	-10.12
5388.32	45.57	PK	109	1.8	H	-1.15	44.42	74.00	-29.58
5388.32	39.26	Ave	109	1.8	H	-1.15	38.11	54.00	-15.89
5452.50	46.80	PK	34	1.4	H	-1.36	45.44	74.00	-28.56
5452.50	38.72	Ave	34	1.4	H	-1.36	37.36	54.00	-16.64

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a band IV middle channel 5785MHz									
333.45	40.92	QP	309	1.6	H	-11.62	29.30	46.00	-16.70
333.45	36.09	QP	188	1.8	V	-11.62	24.47	46.00	-21.53
4526.66	46.85	PK	71	1.6	H	-2.03	44.82	74.00	-29.18
4526.66	44.98	Ave	71	1.6	H	-2.03	42.95	54.00	-11.05
11570.00	40.20	PK	97	1.7	H	5.81	46.01	74.00	-27.99
11570.00	37.91	Ave	97	1.7	H	5.81	43.72	54.00	-10.28
5373.91	45.25	PK	287	1.2	H	-1.22	44.03	74.00	-29.97
5373.91	37.88	Ave	287	1.2	H	-1.22	36.66	54.00	-17.34
5455.71	45.32	PK	222	1.6	H	-1.36	43.96	74.00	-30.04
5455.71	38.36	Ave	222	1.6	H	-1.36	37.00	54.00	-17.00

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11a band IV High channel 5825MHz									
333.45	41.51	QP	49	2.0	H	-11.62	29.89	46.00	-16.11
333.45	35.67	QP	297	1.7	V	-11.62	24.05	46.00	-21.95
4534.49	45.57	PK	63	1.5	H	-1.84	43.73	74.00	-30.27
4534.49	44.21	Ave	63	1.5	H	-1.84	42.37	54.00	-11.63
11650.00	41.28	PK	67	1.2	H	5.84	47.12	74.00	-26.88
11650.00	36.00	Ave	67	1.2	H	5.84	41.84	54.00	-12.16
5361.75	45.29	PK	95	1.1	H	-1.30	43.99	74.00	-30.01
5361.75	38.82	Ave	95	1.1	H	-1.30	37.52	54.00	-16.48
5456.04	45.92	PK	232	1.0	H	-1.36	44.56	74.00	-29.44
5456.04	37.22	Ave	232	1.0	H	-1.36	35.86	54.00	-18.14

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) band I low Channel 5180MHz									
333.45	42.53	QP	118	1.6	H	-11.62	30.91	46.00	-15.09
333.45	35.45	QP	151	1.8	V	-11.62	23.83	46.00	-22.17
4516.39	44.58	PK	243	1.1	H	-2.14	42.44	74.00	-31.56
4516.39	44.99	Ave	243	1.1	H	-2.14	42.85	54.00	-11.15
5142.83	47.72	PK	191	1.3	H	-1.06	46.66	74.00	-27.34
5142.83	39.07	Ave	191	1.3	H	-1.06	38.01	54.00	-15.99
10360.00	42.25	PK	64	1.2	H	5.33	47.58	74.00	-26.42
10360.00	36.90	Ave	64	1.2	H	5.33	42.23	54.00	-11.77
5363.62	45.20	PK	179	1.8	H	-1.26	43.94	74.00	-30.06
5363.62	37.06	Ave	179	1.8	H	-1.26	35.80	54.00	-18.20

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) band I middle channel 5200MHz									
333.45	43.47	QP	23	1.0	H	-11.62	31.85	46.00	-14.15
333.45	36.61	QP	355	1.2	V	-11.62	24.99	46.00	-21.01
4518.51	43.88	PK	16	1.5	H	-2.12	41.76	74.00	-32.24
4518.51	44.07	Ave	16	1.5	H	-2.12	41.95	54.00	-12.05
5145.99	49.24	PK	44	1.7	H	-1.06	48.18	74.00	-25.82
5145.99	39.13	Ave	44	1.7	H	-1.06	38.07	54.00	-15.93
10400.00	41.19	PK	145	1.6	H	5.21	46.40	74.00	-27.60
10400.00	38.09	Ave	145	1.6	H	5.21	43.30	54.00	-10.70
5363.15	45.18	PK	208	1.5	H	-1.07	44.11	74.00	-29.89
5363.15	37.67	Ave	208	1.5	H	-1.07	36.60	54.00	-17.40

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) band I High channel 5240MHz									
333.45	43.83	QP	101	1.7	H	-11.62	32.21	46.00	-13.79
333.45	36.24	QP	200	1.7	V	-11.62	24.62	46.00	-21.38
4509.99	44.86	PK	147	1.1	H	-1.96	42.90	74.00	-31.10
4509.99	43.89	Ave	147	1.1	H	-1.96	41.93	54.00	-12.07
5144.05	48.68	PK	13	1.7	H	-1.06	47.62	74.00	-26.38
5144.05	41.04	Ave	13	1.7	H	-1.06	39.98	54.00	-14.02
10480.00	40.70	PK	68	1.3	H	5.14	45.84	74.00	-28.16
10480.00	36.70	Ave	68	1.3	H	5.14	41.84	54.00	-12.16
5367.83	45.45	PK	239	1.6	H	-1.10	44.35	74.00	-29.65
5367.83	37.58	Ave	239	1.6	H	-1.10	36.48	54.00	-17.52

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) band IV low Channel 5745MHz									
333.45	42.81	QP	45	1.2	H	-11.62	31.19	46.00	-14.81
333.45	36.25	QP	18	1.4	V	-11.62	24.63	46.00	-21.37
4513.63	42.77	PK	238	1.8	H	-1.85	40.92	74.00	-33.08
4513.63	42.20	Ave	238	1.8	H	-1.85	40.35	54.00	-13.65
11490.00	38.66	PK	213	1.7	H	5.93	44.59	74.00	-29.41
11490.00	34.21	Ave	213	1.7	H	5.93	40.14	54.00	-13.86
5371.49	45.27	PK	13	1.6	H	-1.01	44.26	74.00	-29.74
5371.49	38.58	Ave	13	1.6	H	-1.01	37.57	54.00	-16.43
5459.49	45.22	PK	26	1.0	H	-1.36	43.86	74.00	-30.14
5459.49	39.96	Ave	26	1.0	H	-1.36	38.60	54.00	-15.40

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) band IV middle channel 5785MHz									
333.45	42.68	QP	322	1.8	H	-11.62	31.06	46.00	-14.94
333.45	36.43	QP	54	1.5	V	-11.62	24.81	46.00	-21.19
4510.33	41.80	PK	266	1.8	H	-1.89	39.91	74.00	-34.09
4510.33	42.44	Ave	266	1.8	H	-1.89	40.55	54.00	-13.45
11570.00	40.76	PK	293	1.8	H	5.81	46.57	74.00	-27.43
11570.00	35.91	Ave	293	1.8	H	5.81	41.72	54.00	-12.28
5389.89	45.32	PK	229	1.4	H	-1.04	44.28	74.00	-29.72
5389.89	38.03	Ave	229	1.4	H	-1.04	36.99	54.00	-17.01
5455.76	46.07	PK	331	1.9	H	-1.36	44.71	74.00	-29.29
5455.76	38.93	Ave	331	1.9	H	-1.36	37.57	54.00	-16.43

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT20) band IV High channel 5825MHz									
333.45	42.88	QP	315	1.5	H	-11.62	31.26	46.00	-14.74
333.45	36.90	QP	113	1.7	V	-11.62	25.28	46.00	-20.72
4507.80	41.03	PK	286	1.7	H	-1.97	39.06	74.00	-34.94
4507.80	42.75	Ave	286	1.7	H	-1.97	40.78	54.00	-13.22
11650.00	40.62	PK	229	1.0	H	5.84	46.46	74.00	-27.54
11650.00	36.42	Ave	229	1.0	H	5.84	42.26	54.00	-11.74
5388.75	46.82	PK	311	1.3	H	-1.12	45.70	74.00	-28.30
5388.75	38.33	Ave	311	1.3	H	-1.12	37.21	54.00	-16.79
5458.04	46.94	PK	97	1.9	H	-1.36	45.58	74.00	-28.42
5458.04	39.65	Ave	97	1.9	H	-1.36	38.29	54.00	-15.71

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) band I low Channel 5190MHz									
333.45	43.88	QP	201	1.7	H	-11.62	32.26	46.00	-13.74
333.45	35.28	QP	241	1.7	V	-11.62	23.66	46.00	-22.34
4530.48	36.54	PK	179	1.7	H	-1.89	34.65	74.00	-39.35
4530.48	35.88	Ave	179	1.7	H	-1.89	33.99	54.00	-20.01
5148.17	47.88	PK	140	1.2	H	-1.06	46.82	74.00	-27.18
5148.17	39.79	Ave	140	1.2	H	-1.06	38.73	54.00	-15.27
10380.00	39.87	PK	191	1.5	H	5.26	45.13	74.00	-28.87
10380.00	33.97	Ave	191	1.5	H	5.26	39.23	54.00	-14.77
5369.66	46.64	PK	171	1.2	H	-1.03	45.61	74.00	-28.39
5369.66	39.17	Ave	171	1.2	H	-1.03	38.14	54.00	-15.86

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) band IV low Channel 5755MHz									
333.45	43.75	QP	175	1.5	H	-11.62	32.13	46.00	-13.87
333.45	35.28	QP	292	2.0	V	-11.62	23.66	46.00	-22.34
4535.50	34.47	PK	244	1.1	H	-1.96	32.51	74.00	-41.49
4535.50	33.22	Ave	244	1.1	H	-1.96	31.26	54.00	-22.74
11510.00	39.71	PK	339	1.9	H	5.88	45.59	74.00	-28.41
11510.00	34.38	Ave	339	1.9	H	5.88	40.26	54.00	-13.74
5351.01	46.21	PK	358	1.6	H	-1.01	45.20	74.00	-28.80
5351.01	38.99	Ave	358	1.6	H	-1.01	37.98	54.00	-16.02
5458.29	46.44	PK	95	1.5	H	-1.36	45.08	74.00	-28.92
5458.29	37.50	Ave	95	1.5	H	-1.36	36.14	54.00	-17.86

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.407/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
802.11n(HT40) band IV High channel 5795MHz									
333.45	43.03	QP	87	1.3	H	-11.62	31.41	46.00	-14.59
333.45	36.04	QP	315	1.6	V	-11.62	24.42	46.00	-21.58
4536.32	34.77	PK	0	1.5	H	-1.92	32.85	74.00	-41.15
4536.32	33.53	Ave	0	1.5	H	-1.92	31.61	54.00	-22.39
11590.00	41.24	PK	64	1.5	H	5.63	46.87	74.00	-27.13
11590.00	37.16	Ave	64	1.5	H	5.63	42.79	54.00	-11.21
5387.19	46.32	PK	246	1.5	H	-1.04	45.28	74.00	-28.72
5387.19	39.88	Ave	246	1.5	H	-1.04	38.84	54.00	-15.16
5457.68	45.58	PK	144	1.5	H	-1.36	44.22	74.00	-29.78
5457.68	38.70	Ave	144	1.5	H	-1.36	37.34	54.00	-16.66

Test Frequency: 18GHz~40GHz

The measurements were more than 20 dB below the limit and not reported.

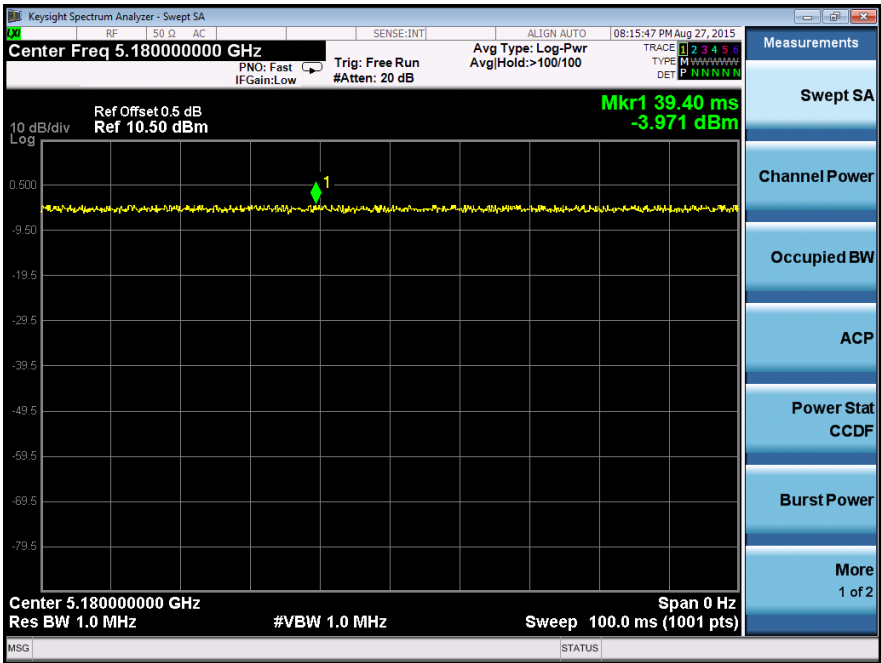
8 Duty cycle

Test Requirement:	47 CFR Part 15C 15.407 and 789033 D02 General UNII Test Procedures New Rules v01, Section (B)
Test Method:	ANSI C63.10: 2009
Test Limit:	N/A
Test Result:	PASS
Remark:	Through Pre-scan, and found 802.11a at lowest channel is the worst case. Only the worst case is recorded in the report.

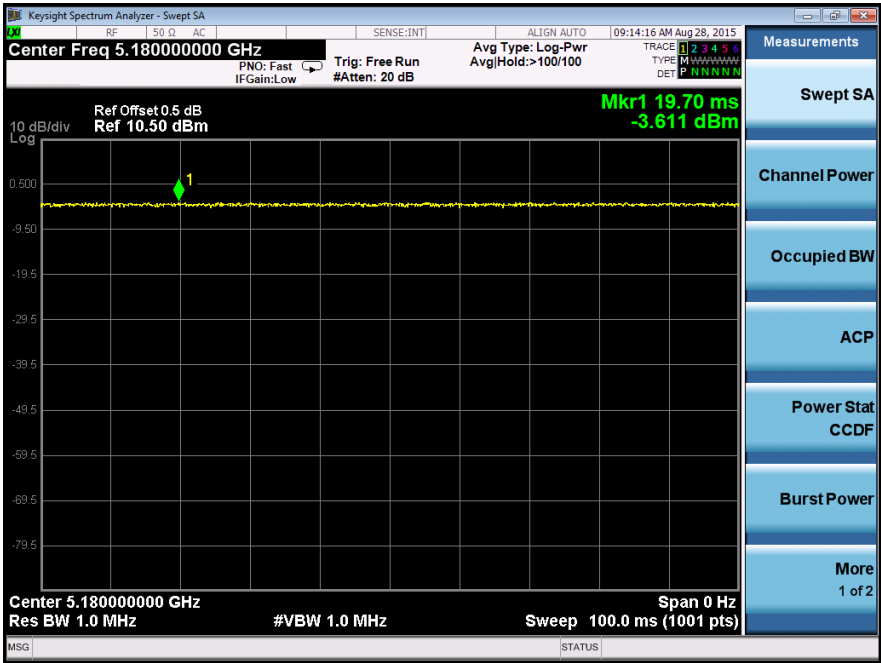
8.1 Summary of Test Results

802.11a mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
36	100	100	100
149	100	100	100
802.11n(HT20) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
36	100	100	100
149	100	100	100
802.11n(HT40) mode			
channel	On time(ms)	Period(ms)	Duty Cycle(%)
38	100	100	100
151	100	100	100

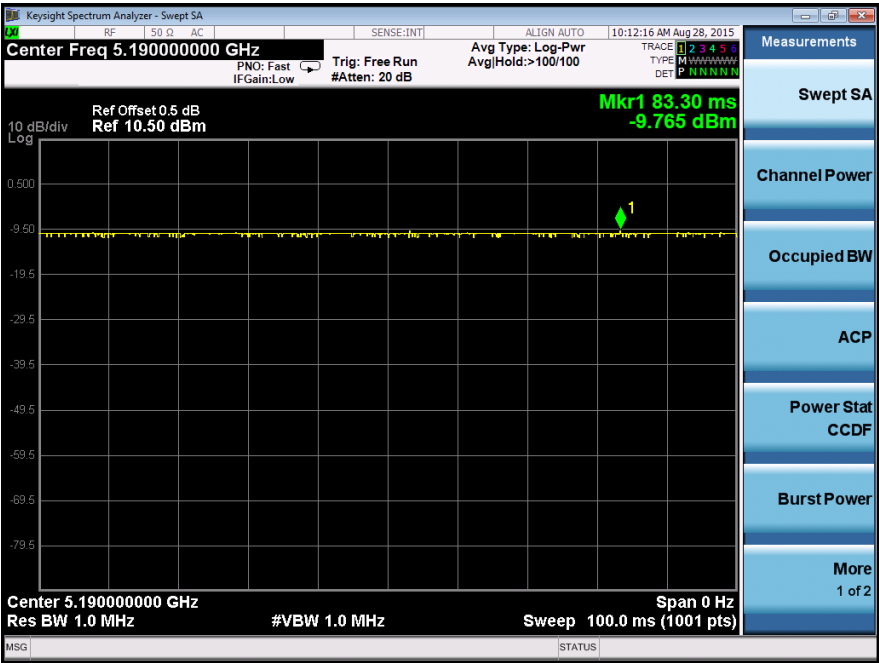
Test result plots shown as follows:



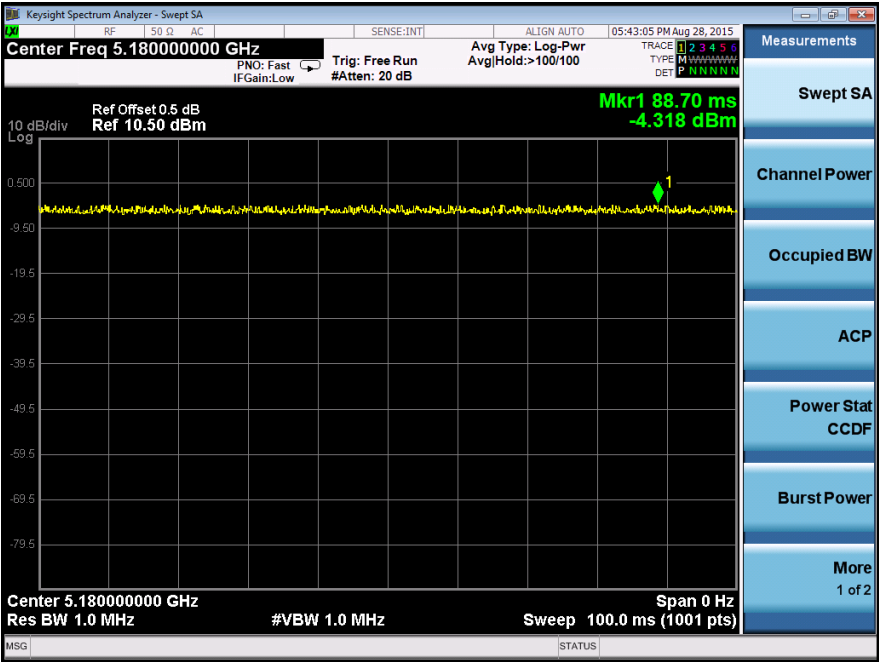
802.11a band I Low channel



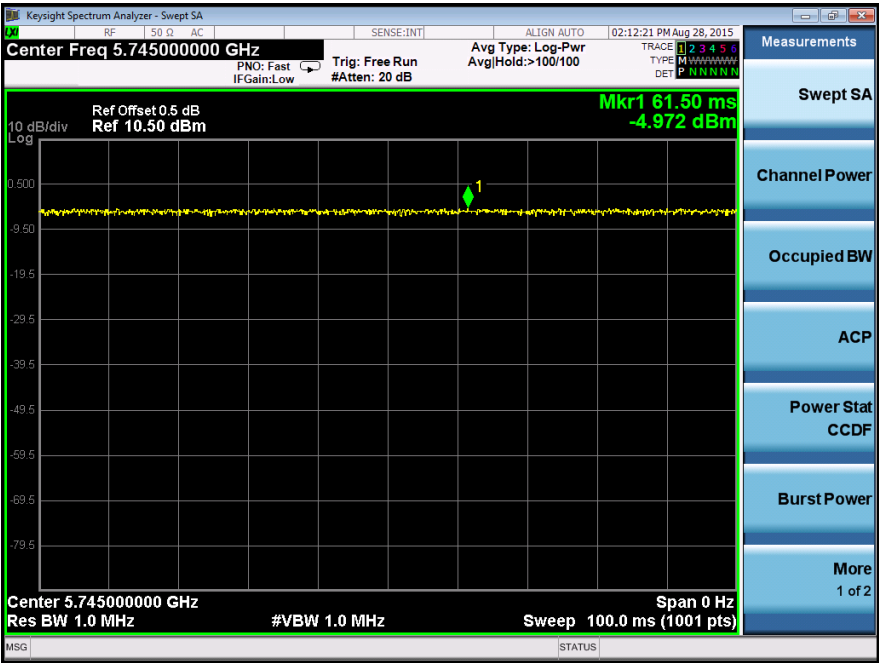
802.11n(HT20) band I Low channel



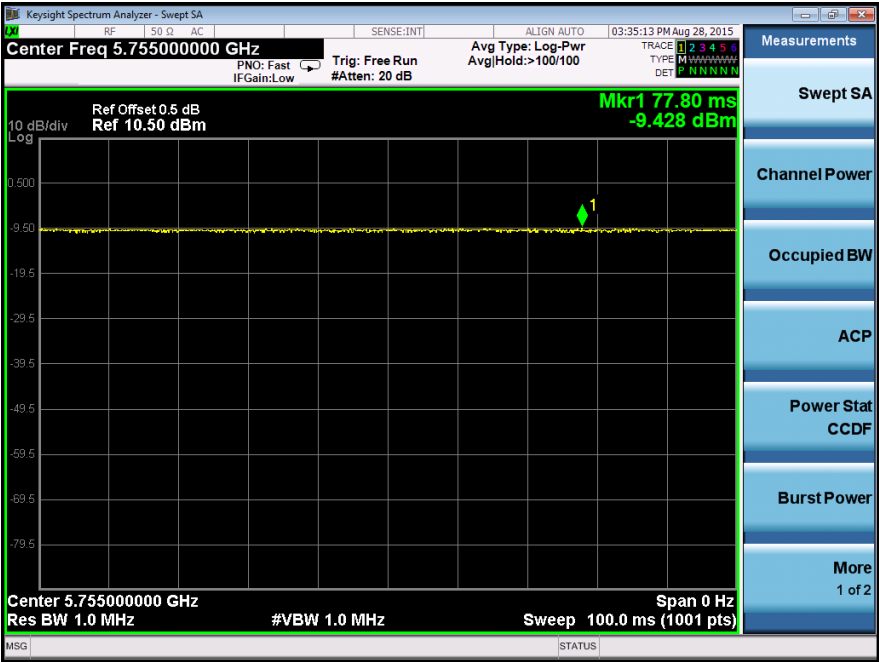
802.11n(HT40) band I Low channel



802.11a band IV Low channel



802.11n(HT20) band IV Low channel



802.11n(HT40) band IV Low channel

9 Band Edge

Test Requirement:	FCC CFR47 Part 15 Section 15.407
Test Method:	ANSI C63.10 2009
Test Limit:	(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27dBm/MHz. (2) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.
Test Result:	PASS

9.1 Test Produce

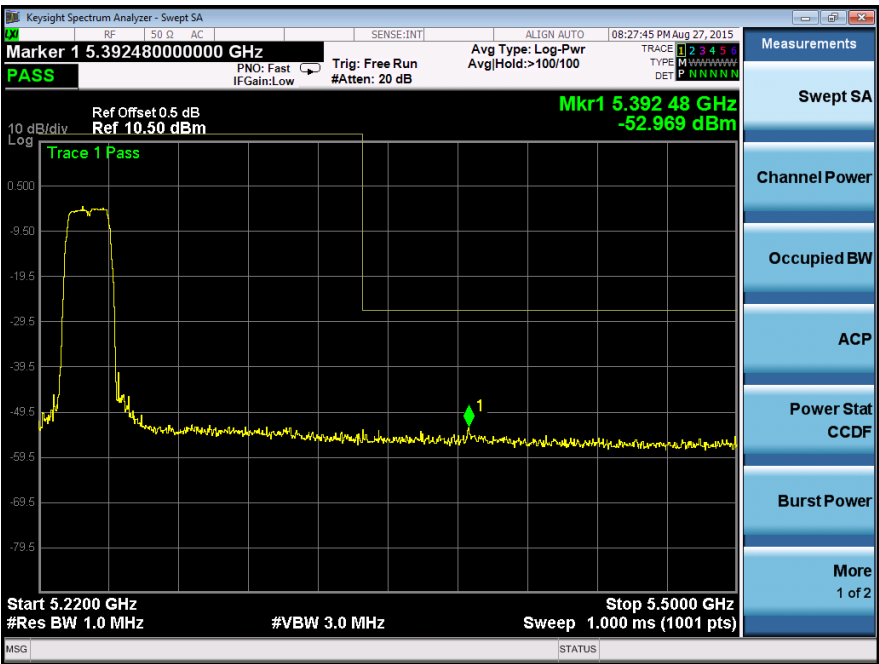
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

9.2 Test Result

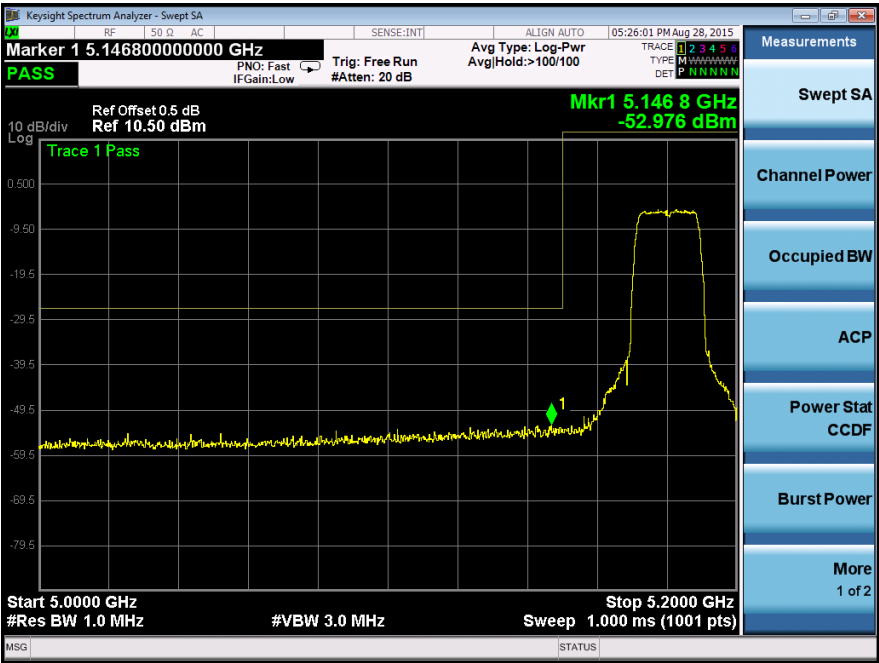
Test result plots shown as follows:



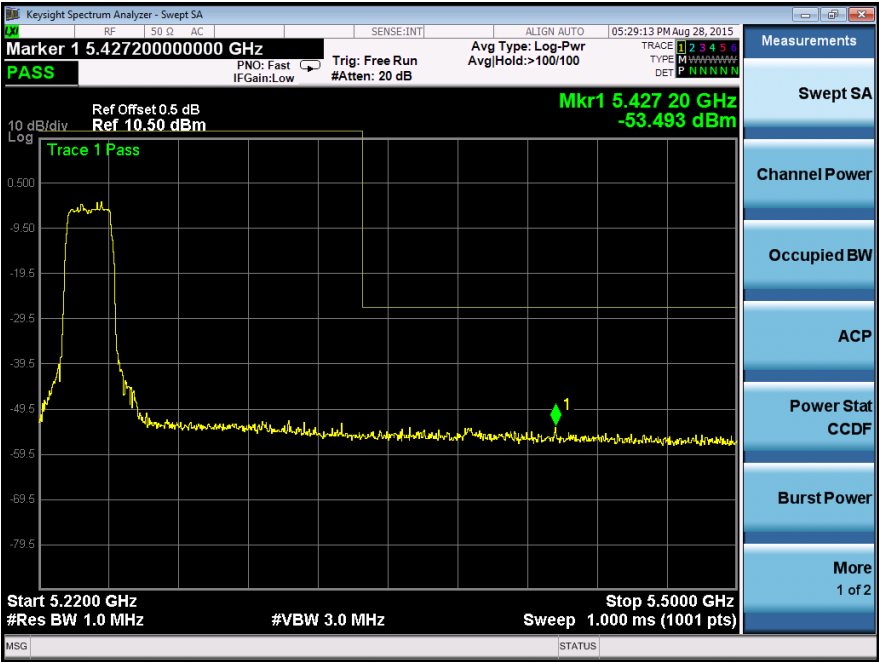
802.11a band I Band edge-left side



802.11a band I Band edge-right side



802.11n(HT20) band I Band edge-left side



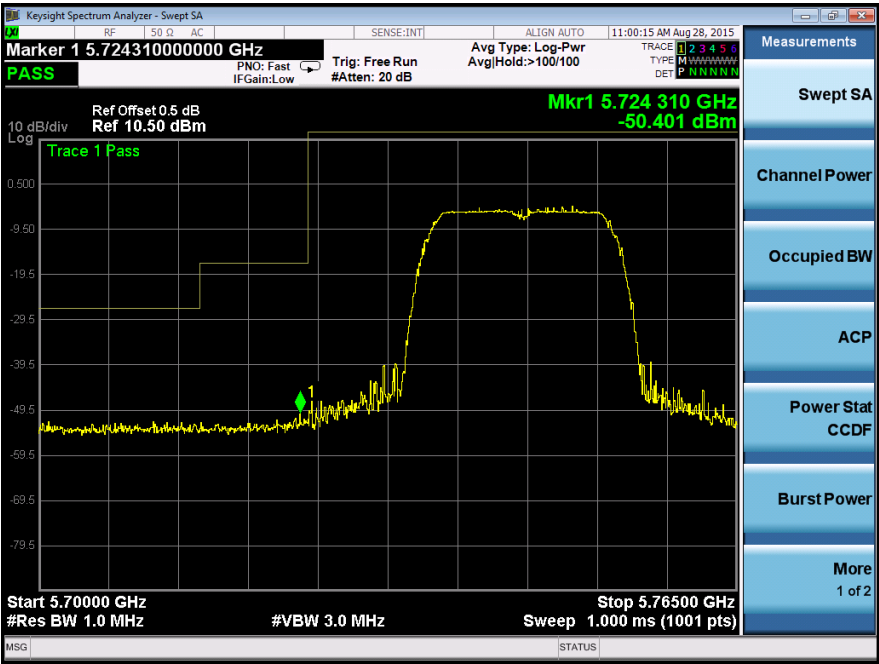
802.11n(HT20) band I Band edge-right side



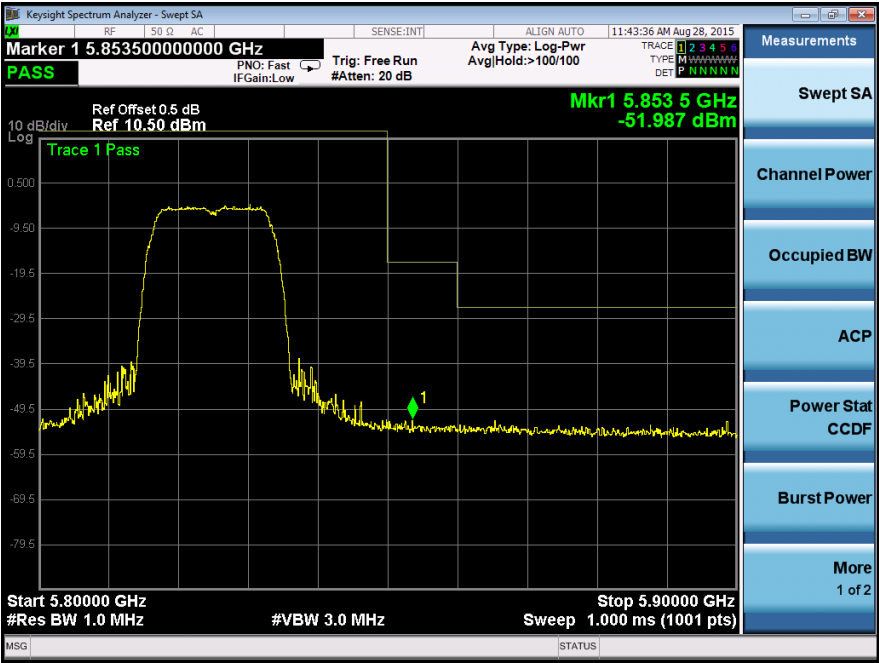
802.11n(HT40) band I Band edge-left side



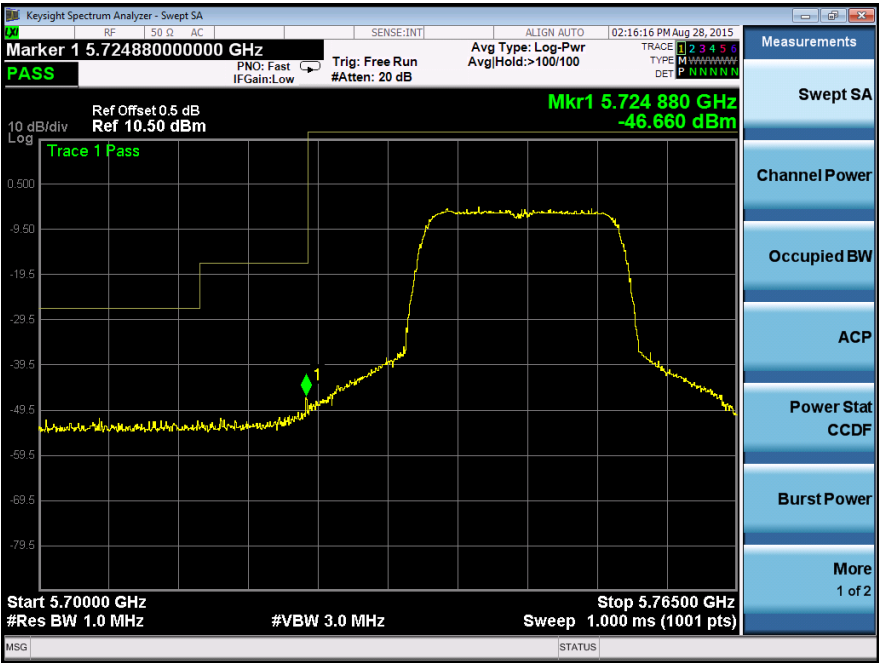
802.11n(HT40) band I Band edge-right side



802.11a band IV Band edge-left side



802.11a band IV Band edge-right side



802.11n(HT20) band IV Band edge-left side



802.11n(HT20) band IV Band edge-right side



802.11n(HT40) band IV Band edge-left side



802.11n(HT40) band IV Band edge-right side

10 6 dB Bandwidth

Test Requirement: FCC CFR47 Part 15 Section 15.407(e)
 KDB662911 D01 Multiple Transmitter Output v02r01
 Test Method: KDB789033 D02 General UNII Test Procedures New Rules v01
 Section C
 Test Limit: ≥ 500 kHz
 Test Result: PASS

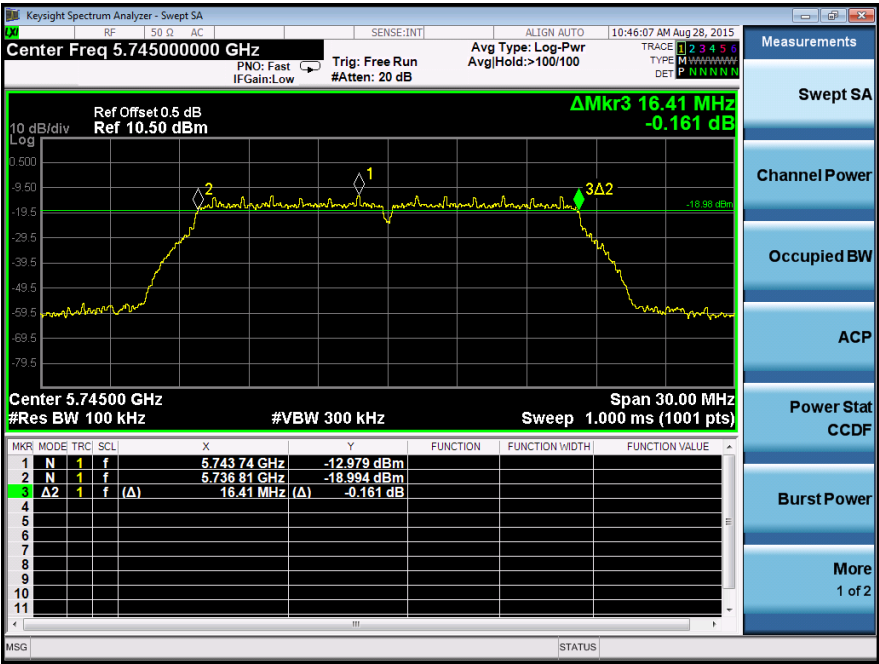
10.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

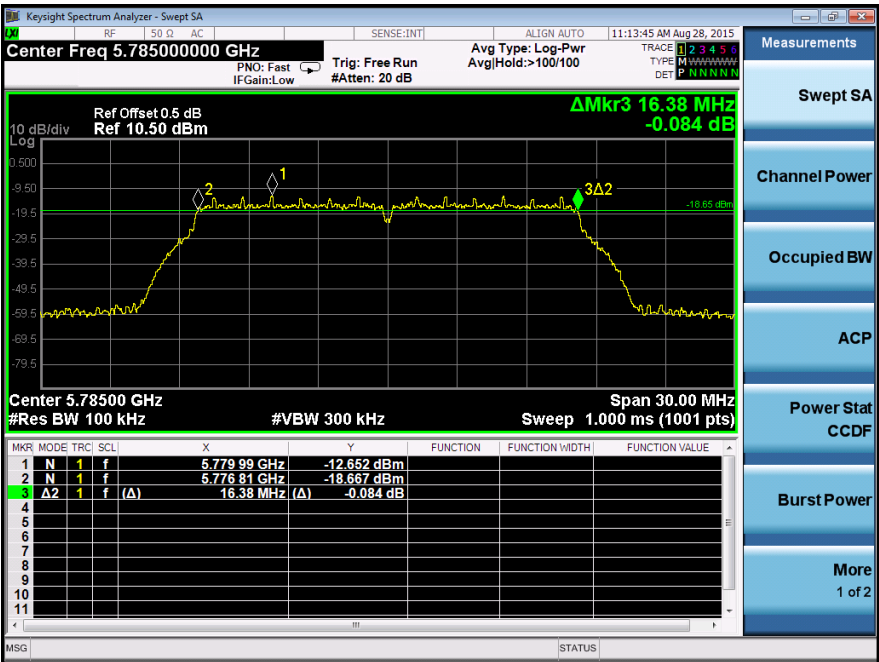
10.2 Test Result:

Band	Operation mode	6 dB Bandwidth (MHz)		
		Low	Middle	High
Band IV	802.11a	16.41	16.38	16.41
	802.11n(HT20)	17.64	17.64	17.70
	802.11n(HT40)	36.30	/	36.36

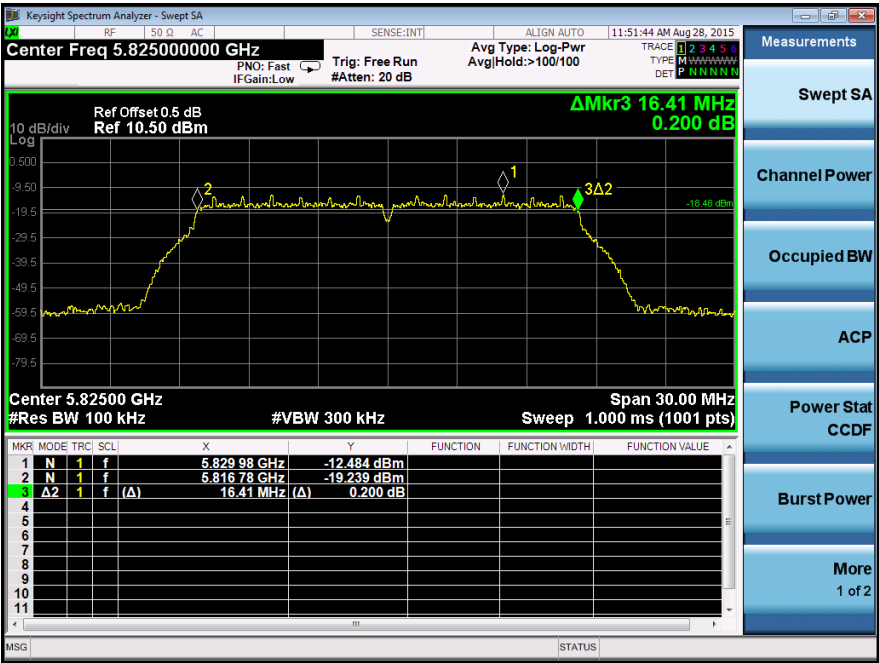
Test result plots shown as follows:



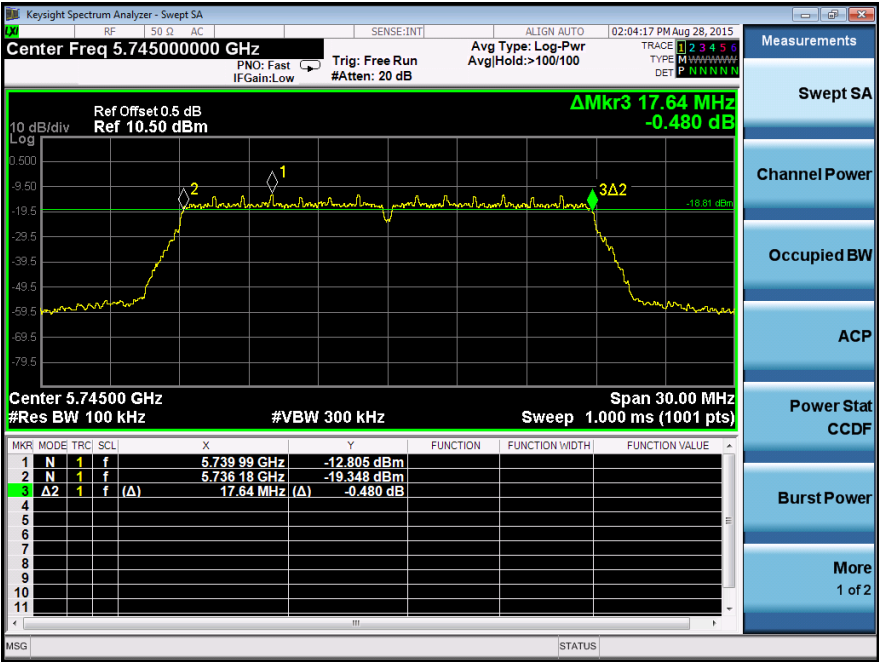
802.11a band IV Low channel



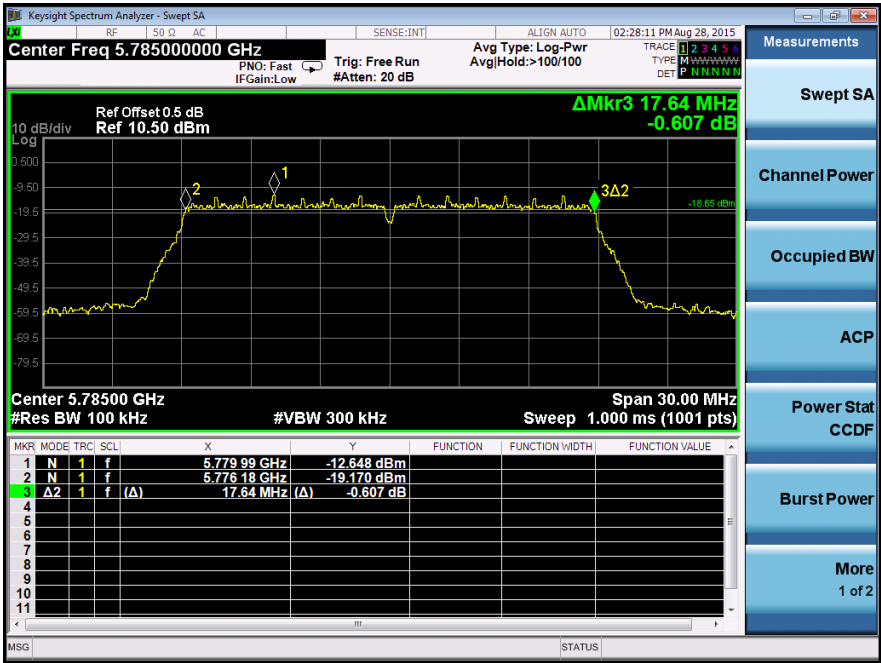
802.11a band IV Middle channel



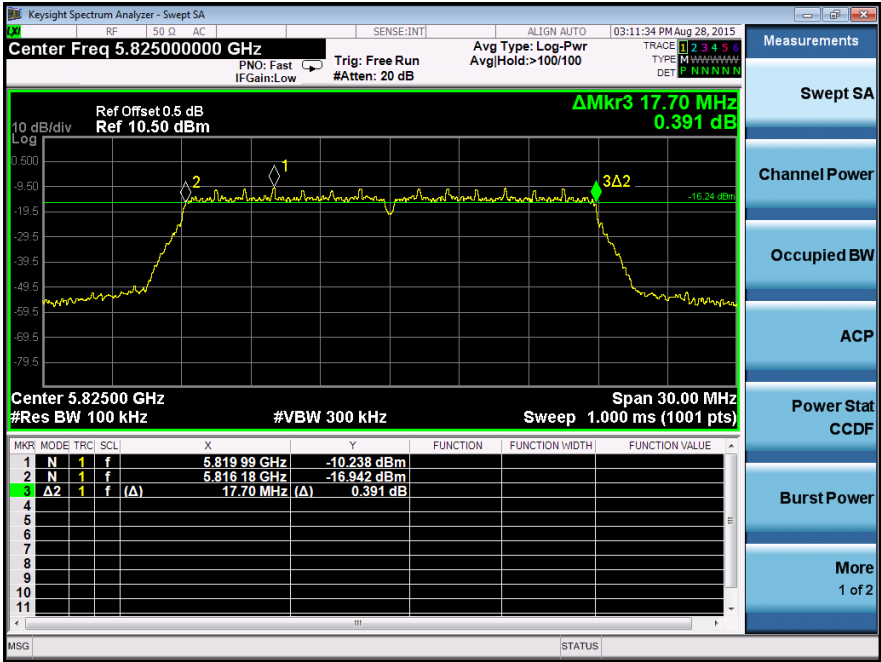
802.11a band IV High channel



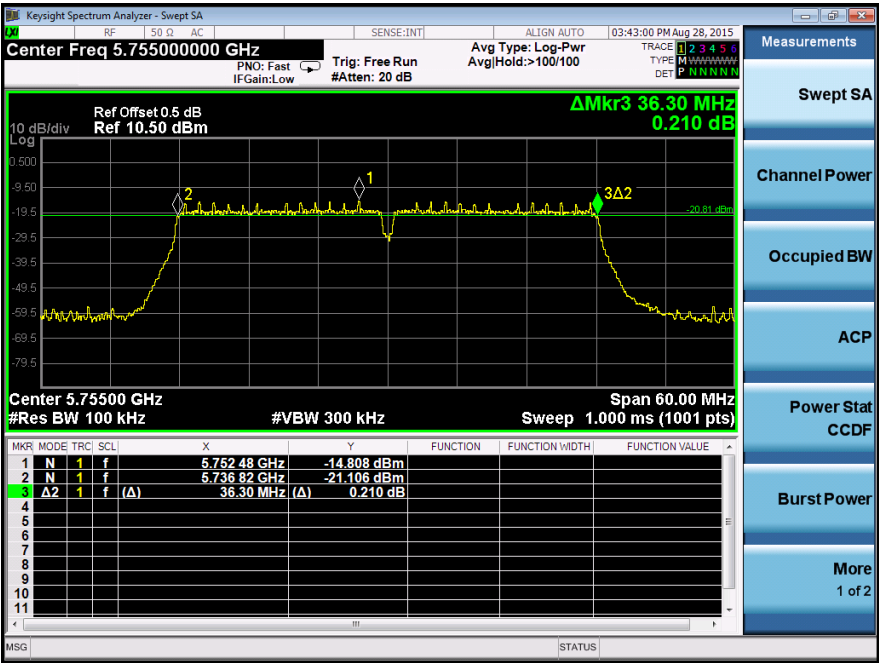
802.11n(HT20) band IV Low channel



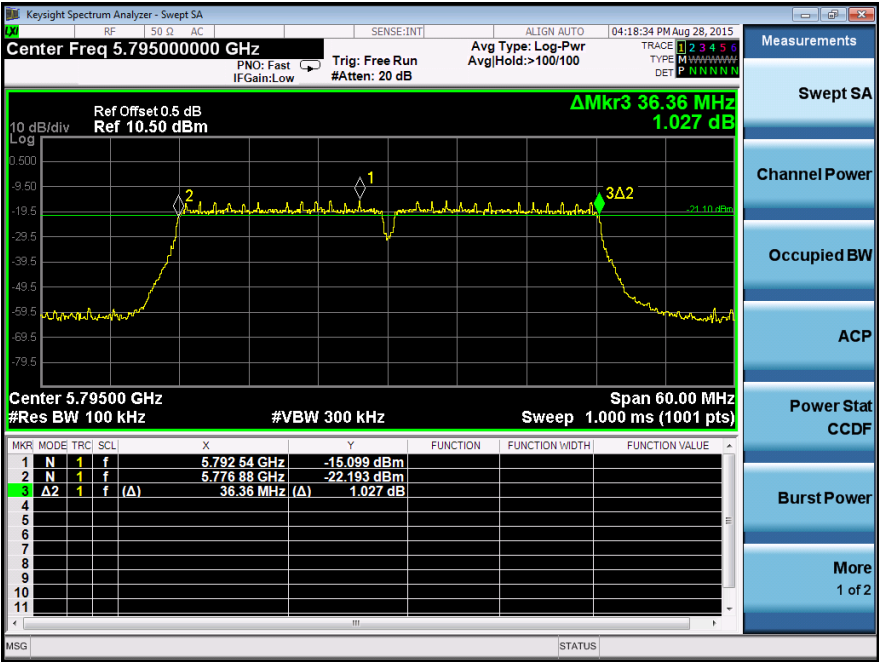
802.11n(HT20) band IV Middle channel



802.11n(HT20) band IV High channel



802.11n(HT40) band IV Low channel



802.11n(HT40) band IV High channel

11 26 dB Bandwidth and 99% Occupied Bandwidth

Test Requirement: 47 CFR Part 15C Section 15.407 (a)
KDB662911 D01 Multiple Transmitter Output v02r01
Test Method: KDB789033 D02 General UNII Test Procedures New Rules v01
Section D
Test Limit: No restriction limits
Test Result: PASS

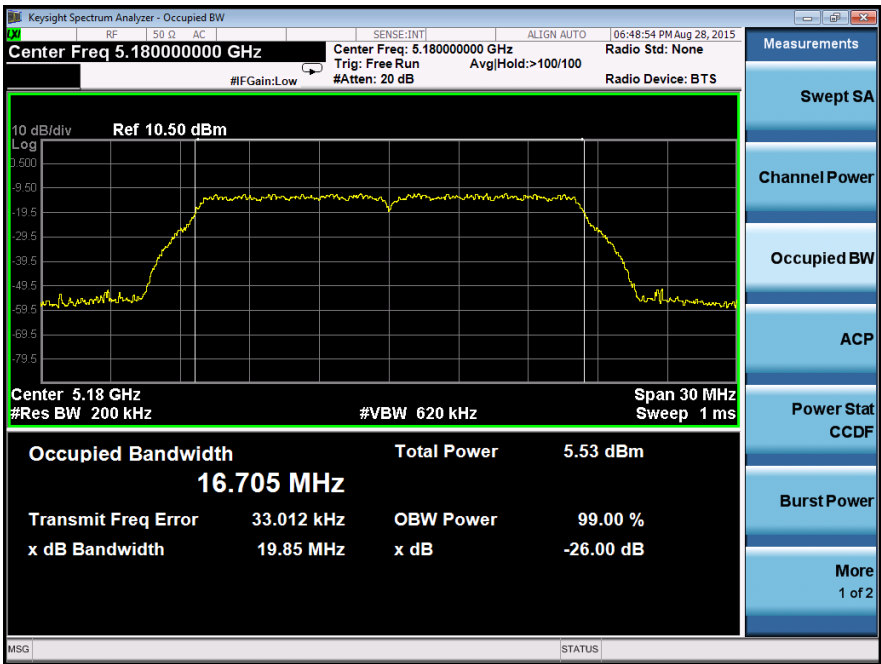
11.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

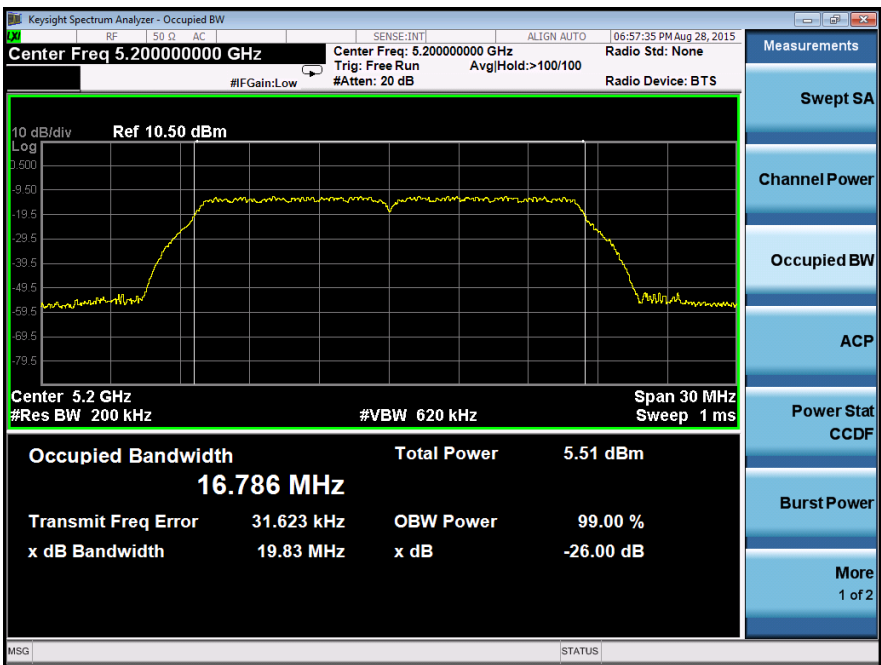
11.2 Test Result:

Band	Operation mode	26 dB Bandwidth (MHz)			99% Bandwidth (MHz)		
		Low	Middle	High	Low	Middle	High
Band I	802.11a	19.85	19.83	19.83	16.705	16.786	16.754
	802.11n(HT20)	19.92	19.93	19.97	17.718	17.711	17.713
	802.11n(HT40)	40.15	/	/	36.249	/	/
Band IV	802.11a	19.81	19.85	19.80	16.718	16.692	16.709
	802.11n(HT20)	19.95	19.96	19.96	17.695	17.727	17.709
	802.11n(HT40)	40.34	/	40.11	36.250	/	36.283

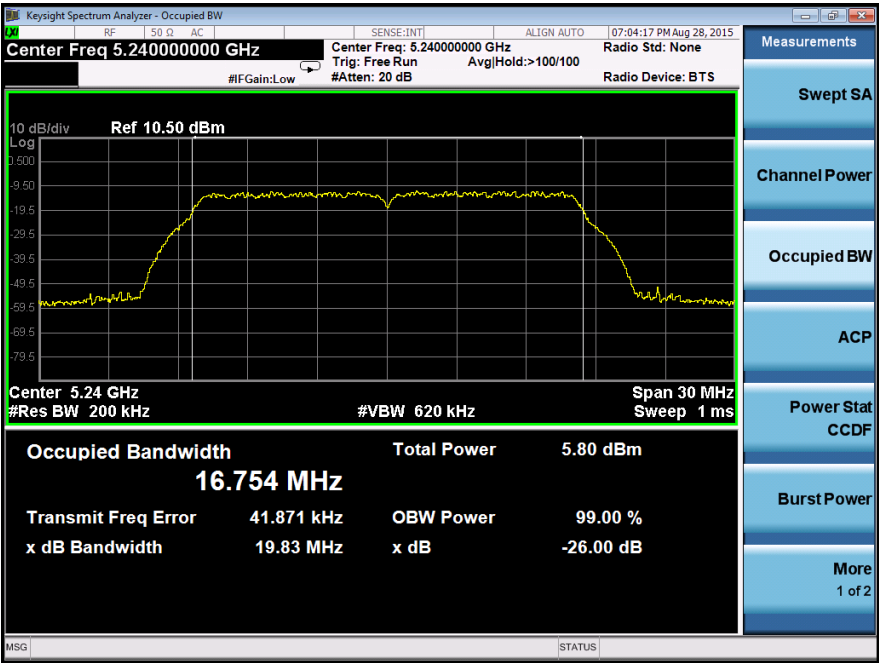
Test result plots shown as follows:



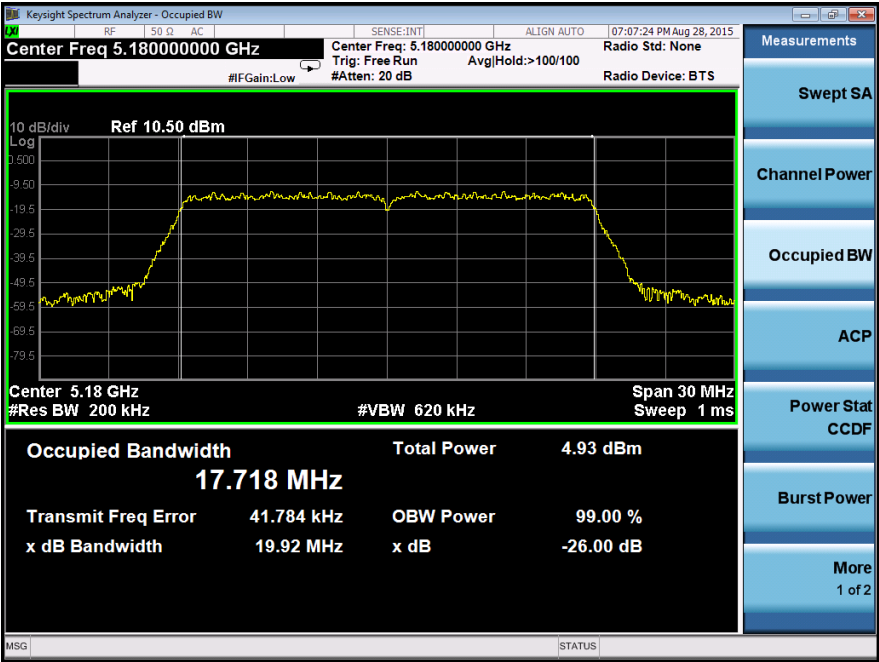
802.11a band I Low channel



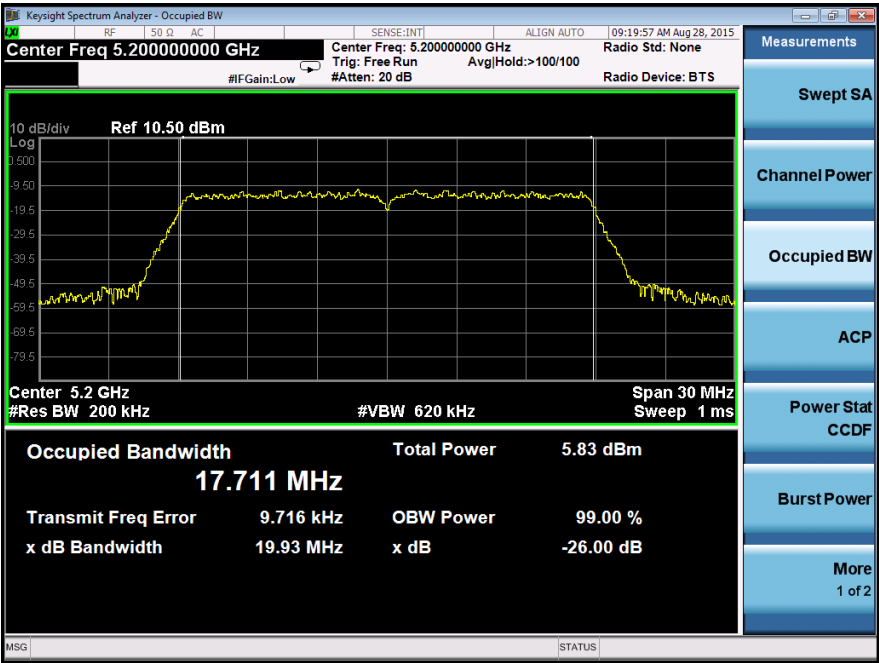
802.11a band I Middle channel



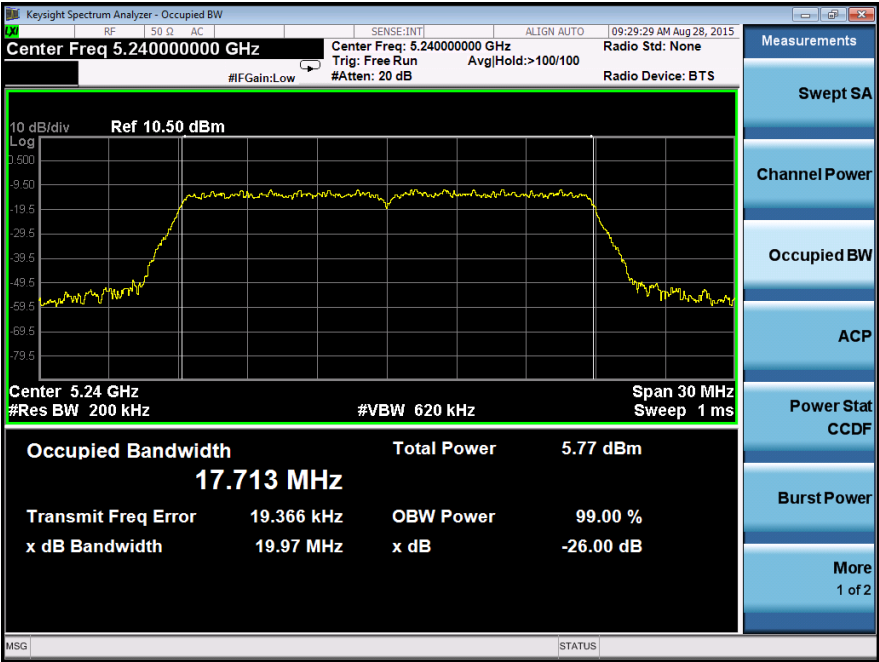
802.11a band I High channel



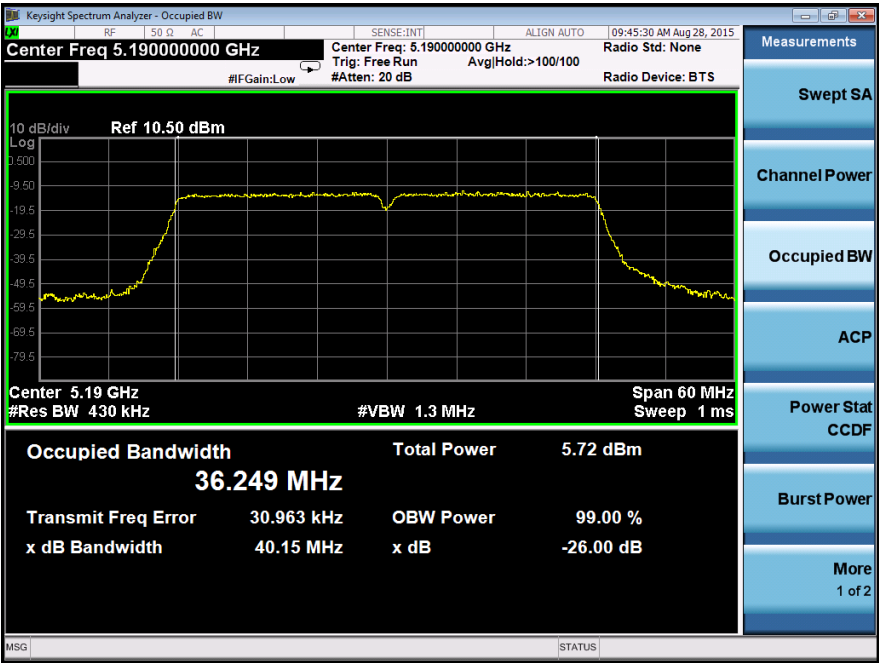
802.11n(HT20) band I Low channel



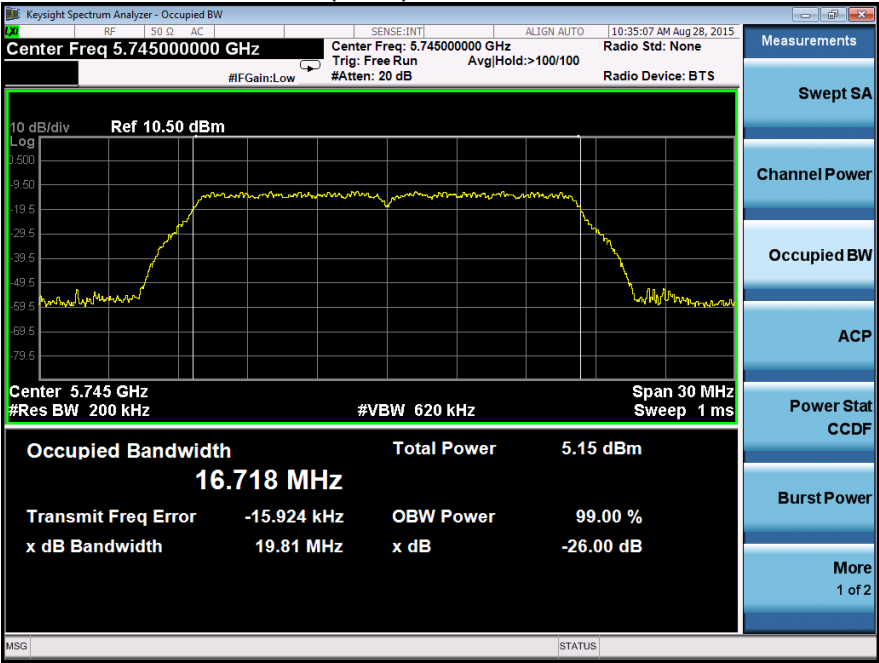
802.11n(HT20) band I Middle channel



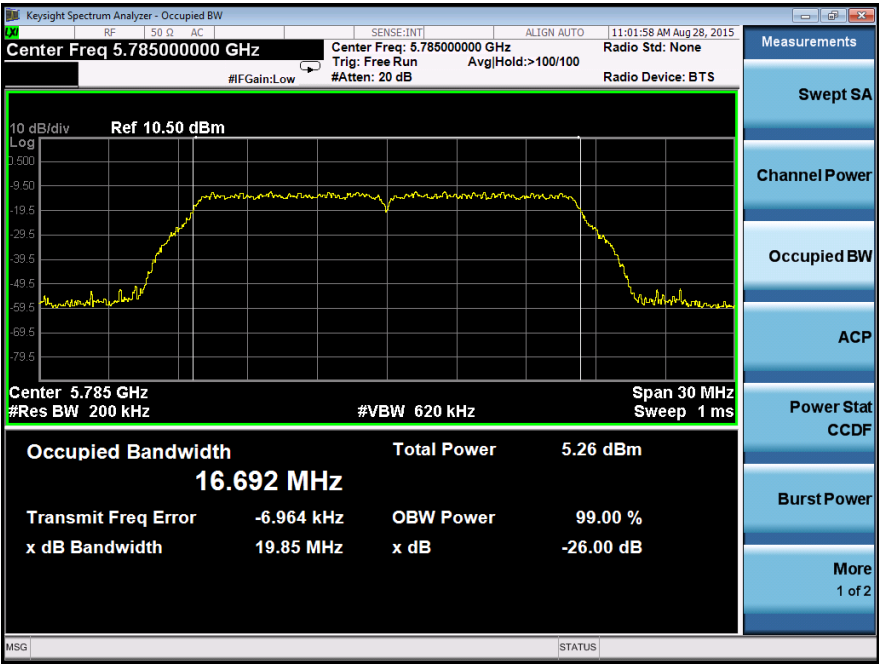
802.11n(HT20) band I High channel



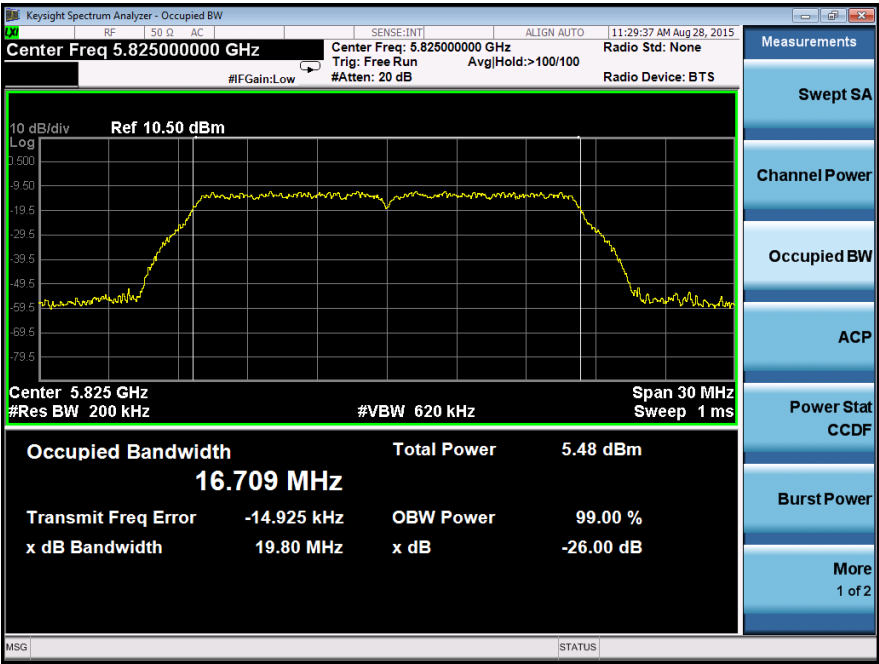
802.11n(HT40) band I Low channel



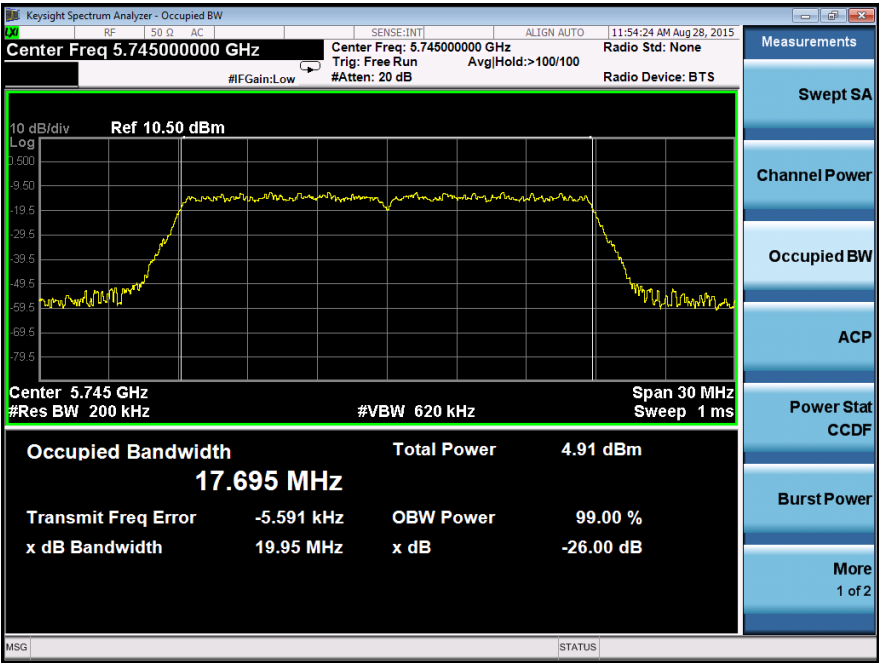
802.11a band IV Low channel



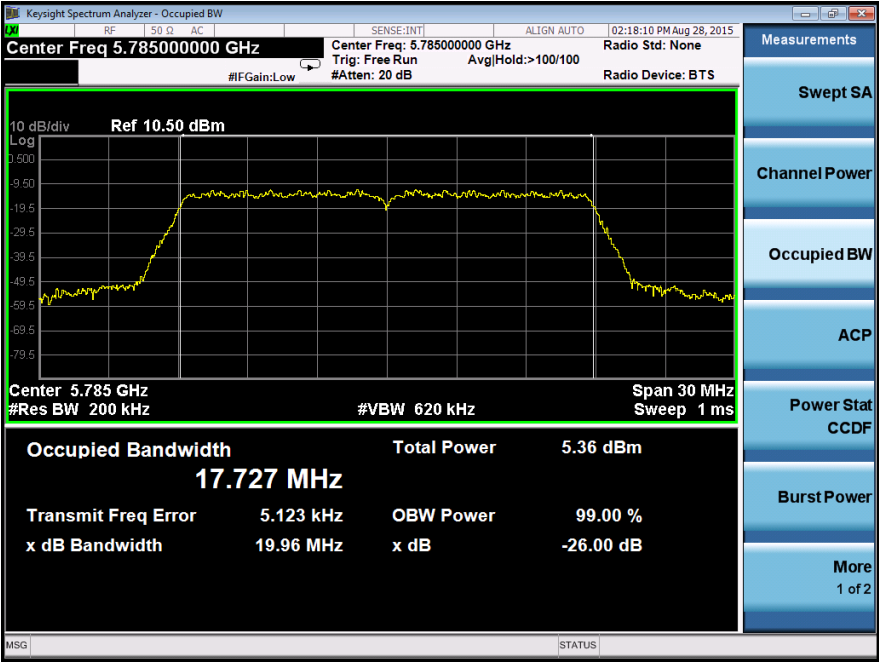
802.11a band IV Middle channel



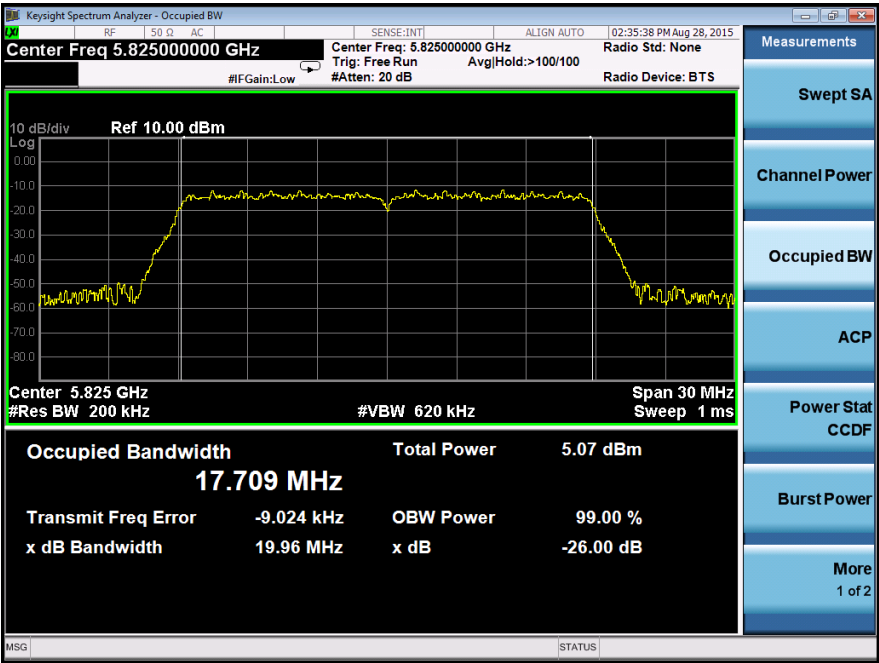
802.11a band IV High channel



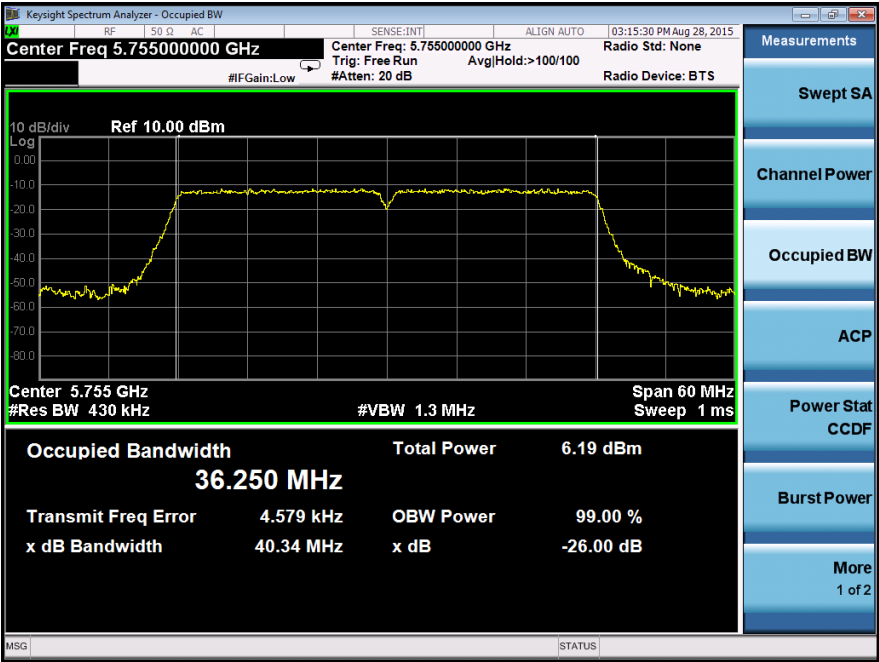
802.11n(HT20) band IV Low channel



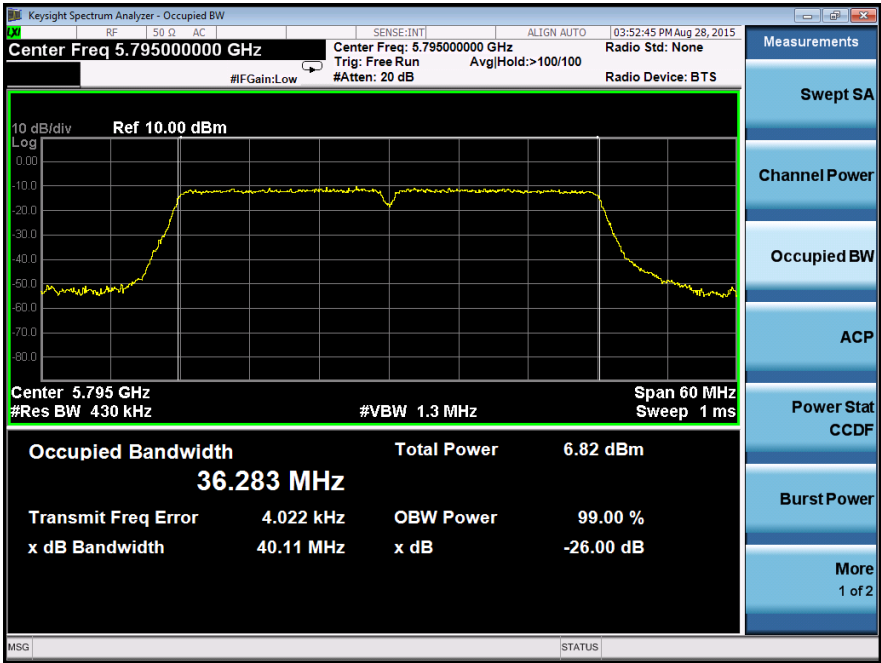
802.11n(HT20) band IV Middle channel



802.11n(HT20) band IV High channel



802.11n(HT40) band IV Low channel



802.11n(HT40) band IV High channel

12 Conducted Output Power

Test Requirement:	FCC CFR47 Part 15 Section 15.407(a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01 Section E
Test Limit:	30dBm
Test Result:	PASS Conducted output power= measurement power+10log(1/x) X is duty cycle=1, so 10log(1/1)=0
Remark:	Conducted output power= measurement power

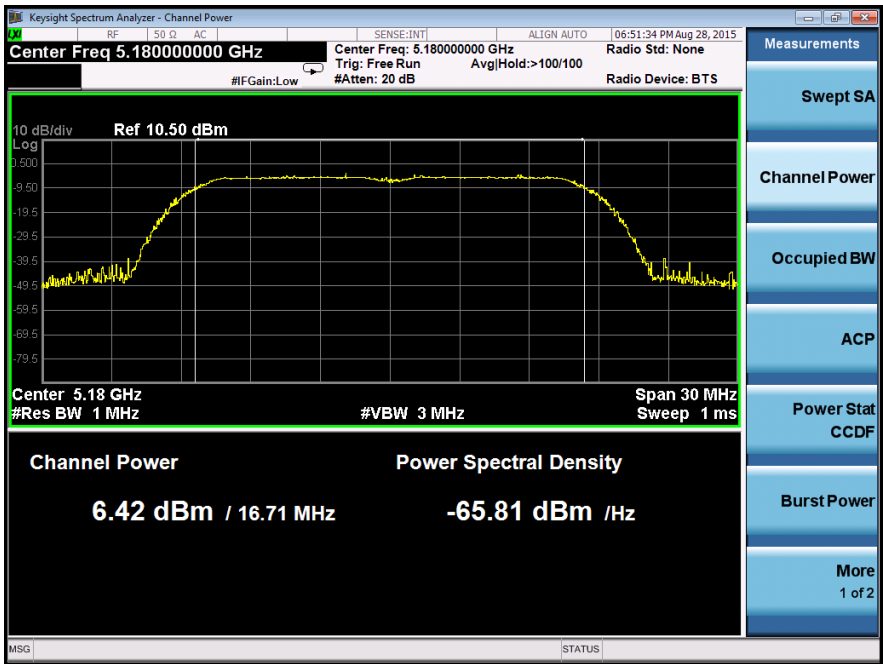
12.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = Peak, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

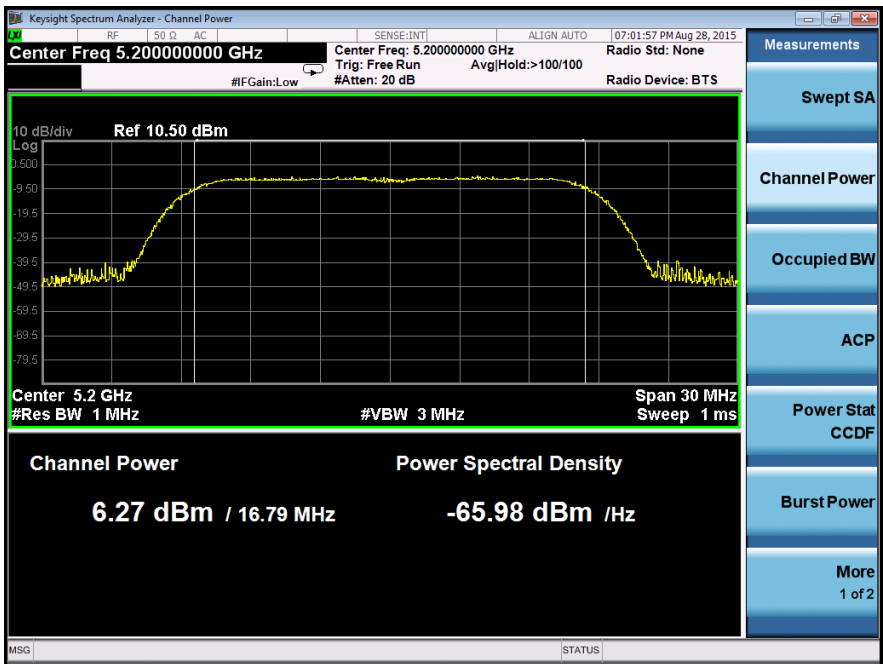
12.2 Test Result:

Band	Operation mode	Conducted Output Power (dBm)		
		Low	Middle	High
Band I	802.11a	6.42	6.27	6.42
	802.11n(HT20)	6.57	6.74	6.92
	802.11n(HT40)	6.33	/	/
Band IV	802.11a	6.26	6.31	6.53
	802.11n(HT20)	6.32	6.42	6.65
	802.11n(HT40)	6.97	/	6.76

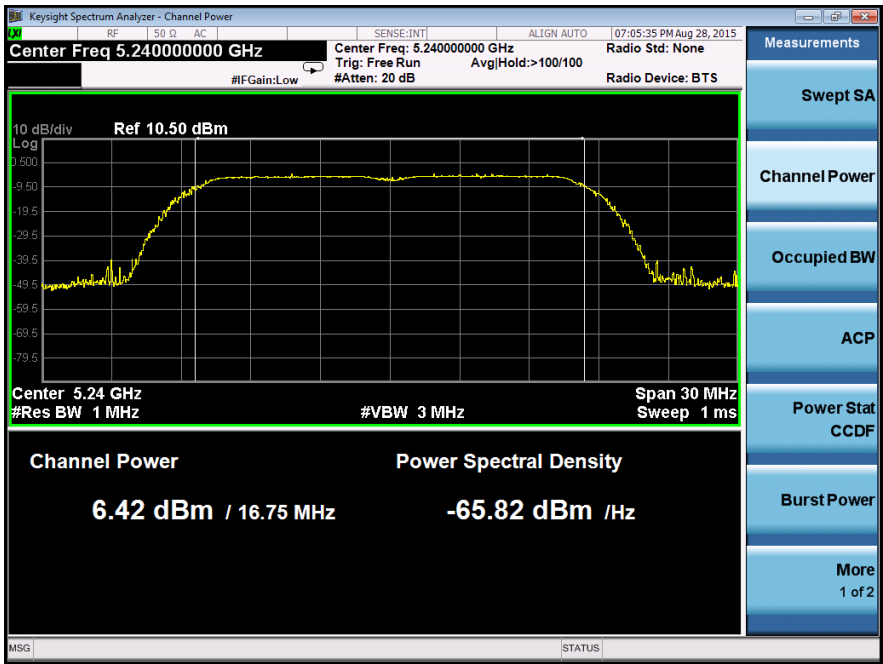
Test result plots shown as follows:



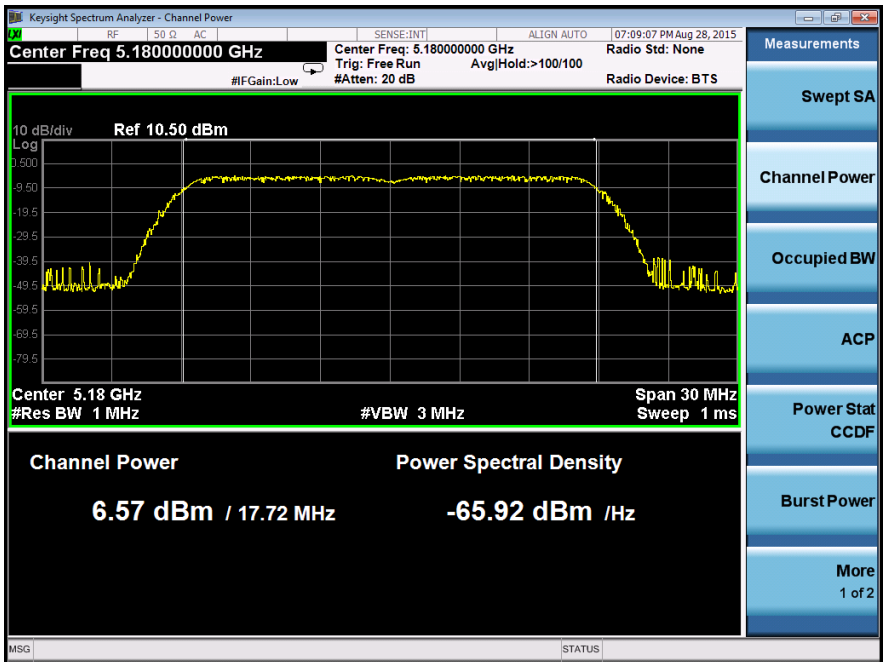
802.11a band I Low channel



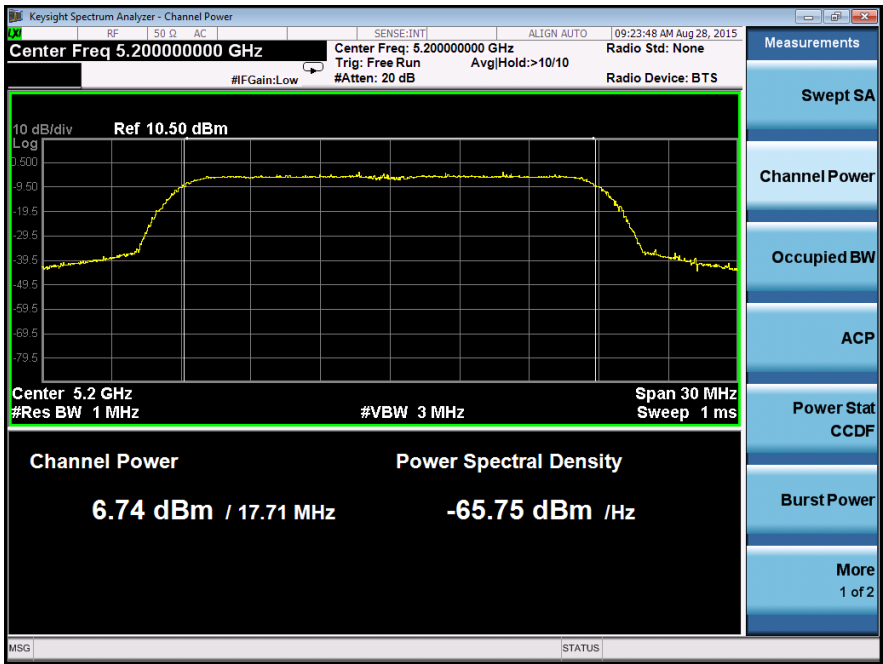
802.11a band I Middle channel



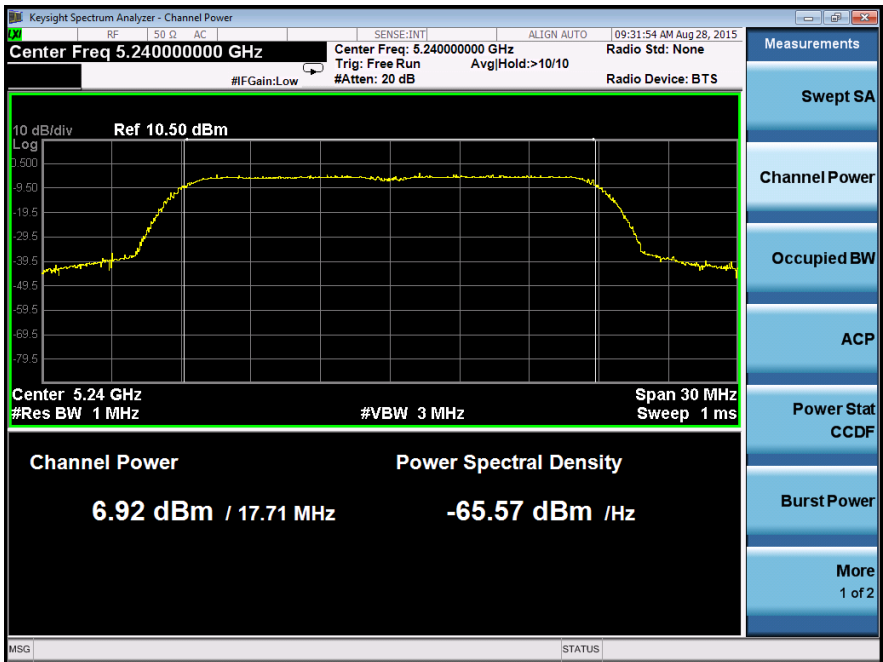
802.11a band I High channel



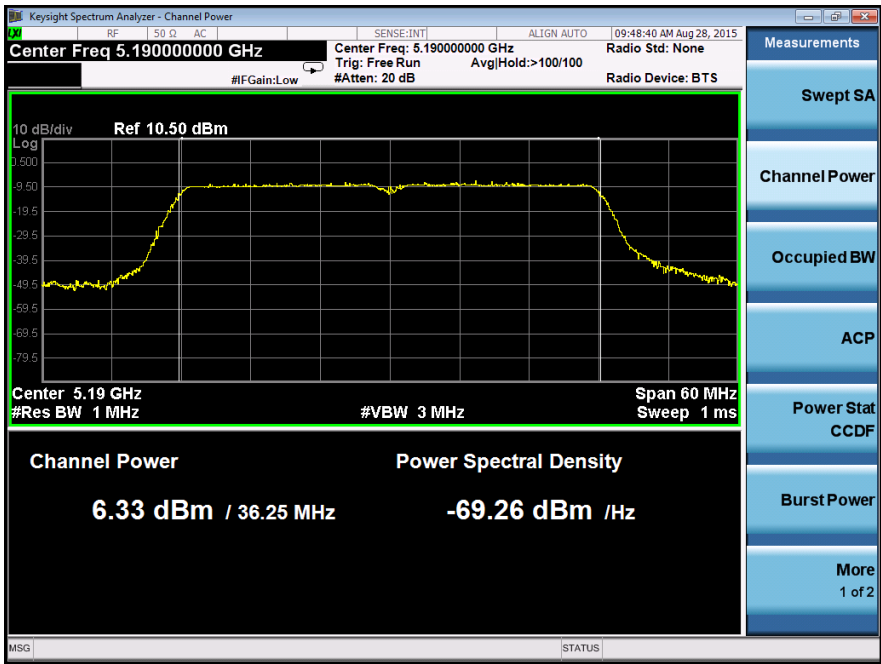
802.11n(HT20) band I Low channel



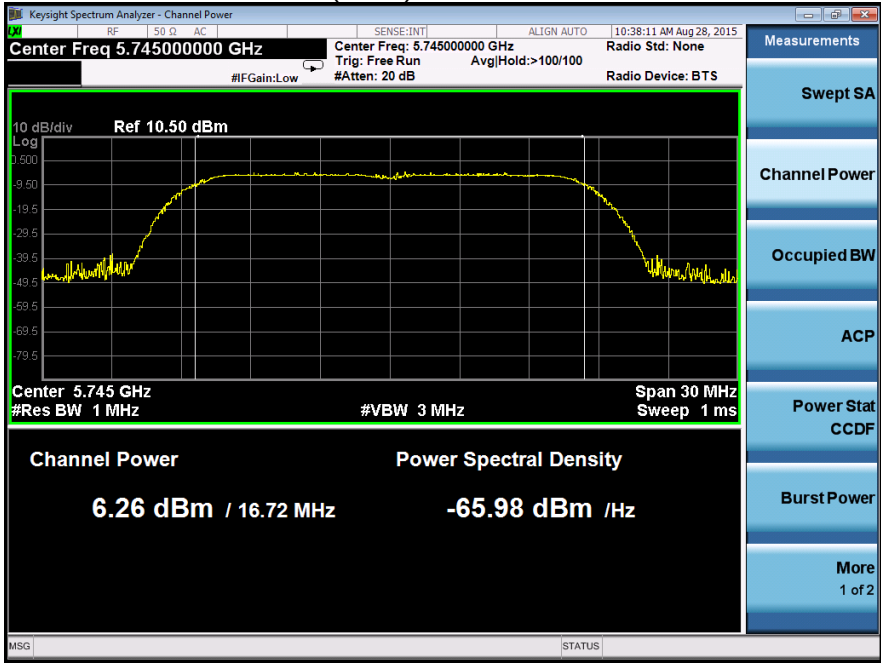
802.11n(HT20) band I Middle channel



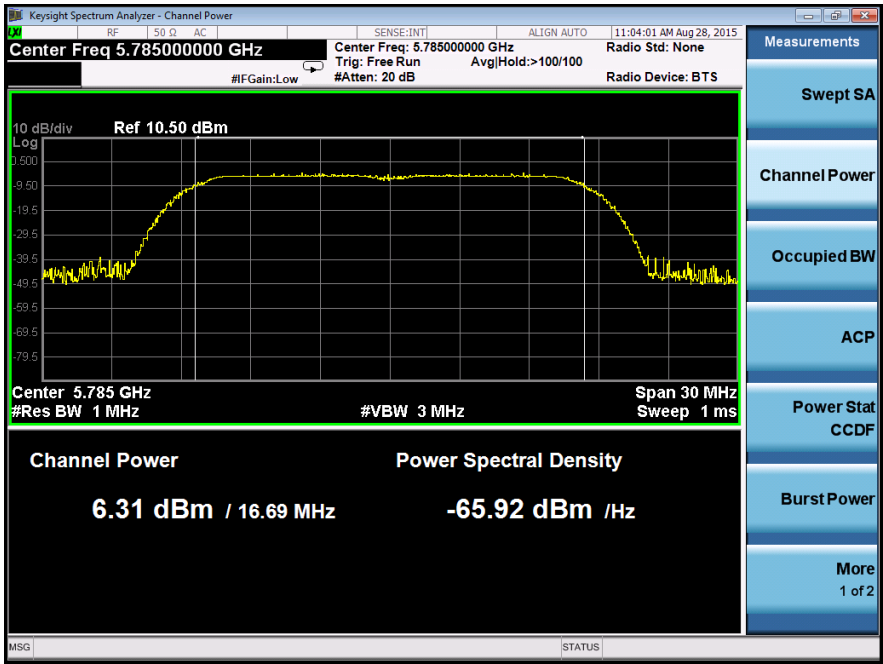
802.11n(HT20) band I High channel



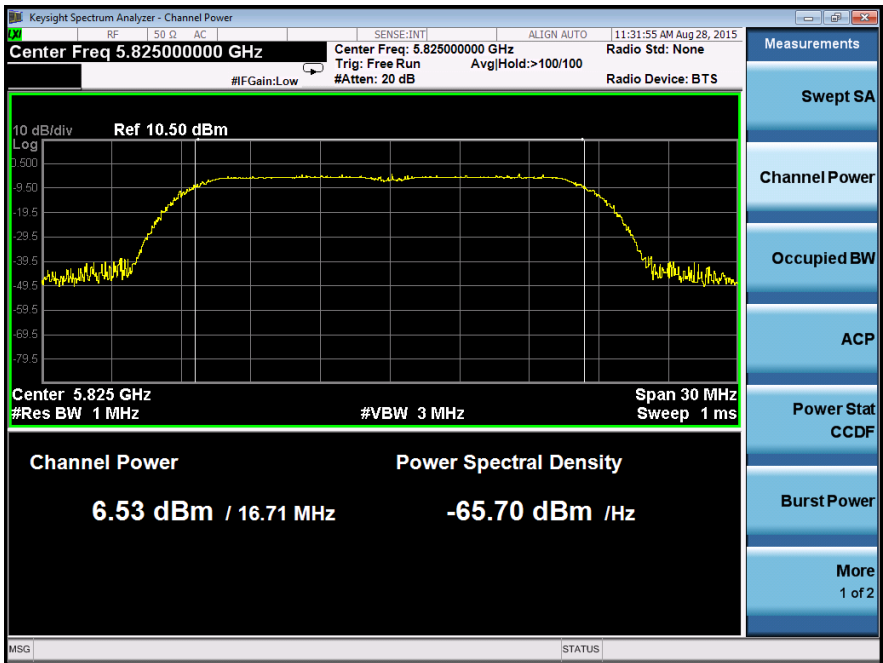
802.11n(HT40) band I Low channel



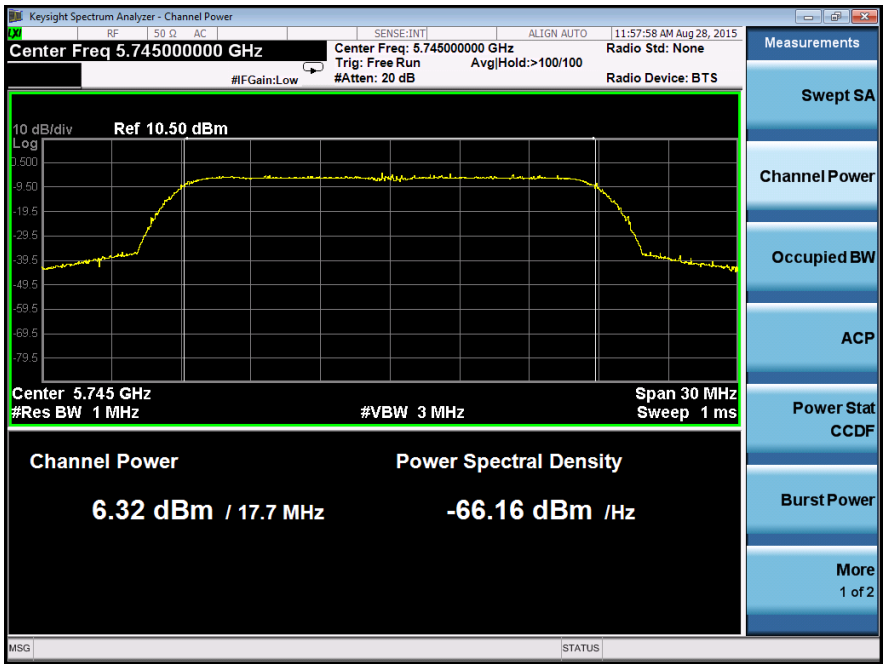
802.11a band IV Low channel



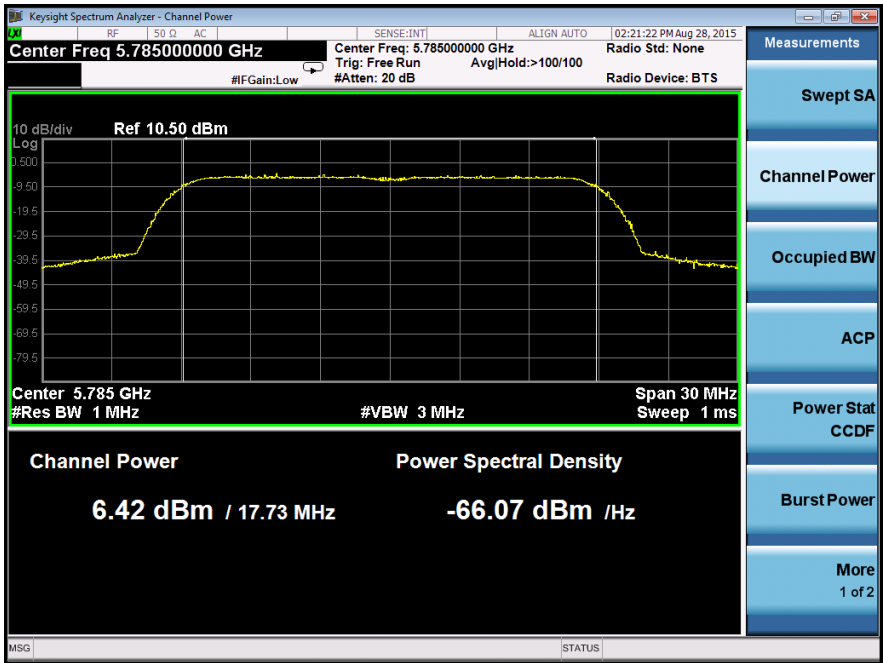
802.11a band IV Middle channel



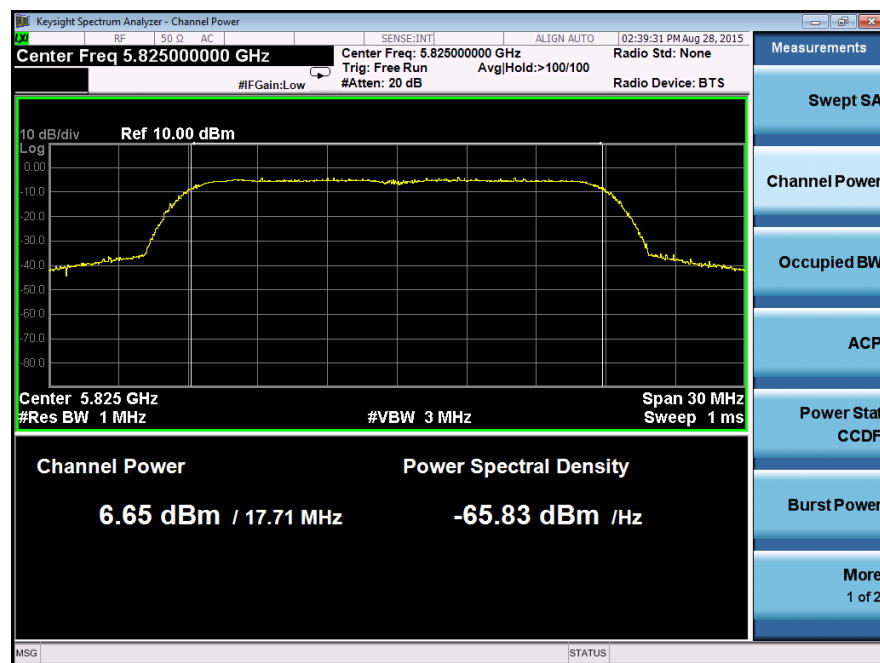
802.11a band IV High channel



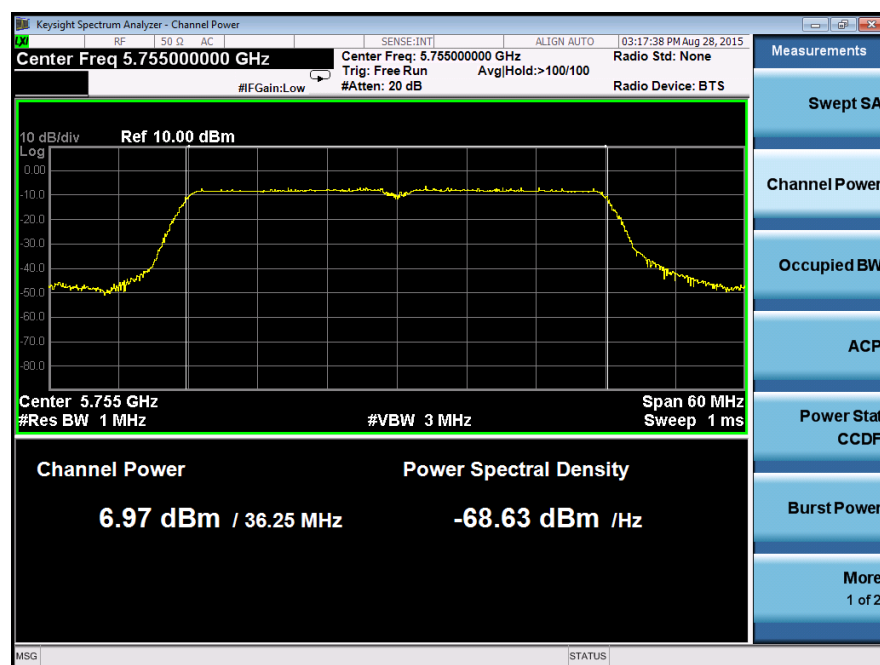
802.11n(HT20) band IV Low channel



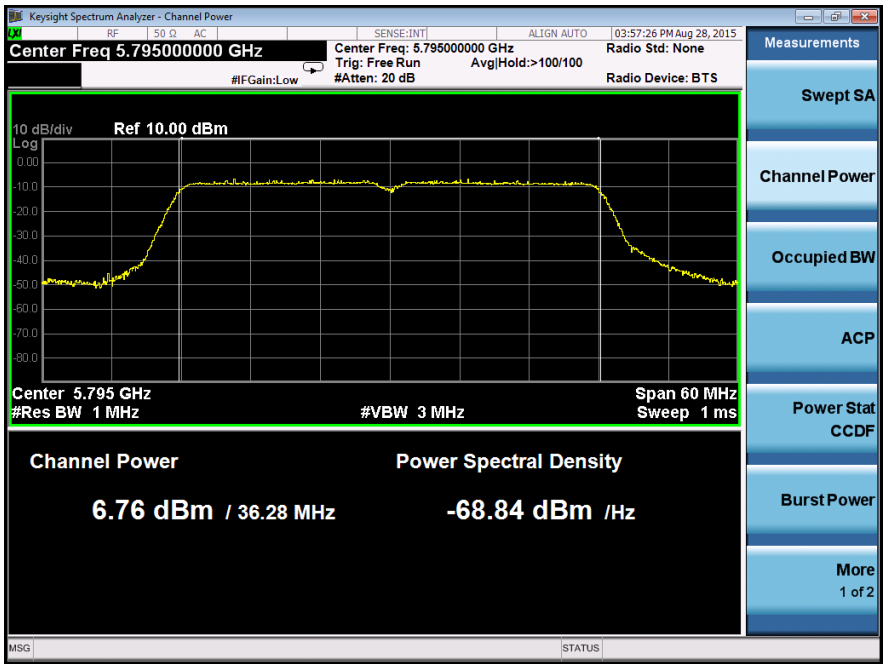
802.11n(HT20) band IV Middle channel



802.11n(HT20) band IV High channel



802.11n(HT40) band IV Low channel



802.11n(HT40) band IV High channel

13 Power Spectral density

Test Requirement:	FCC CFR47 Part 15 Section 15.407(a) KDB662911 D01 Multiple Transmitter Output v02r01
Test Method:	KDB789033 D02 General UNII Test Procedures New Rules v01, Section F
Test Limit:	≤17.00dBm/MHz for Operation in the band I(5150MHz-5250MHz)of device ≤30.00dBm/500KHz for Operation in the band IV(5725MHz- 5850MHz)of device
Test Result:	PASS

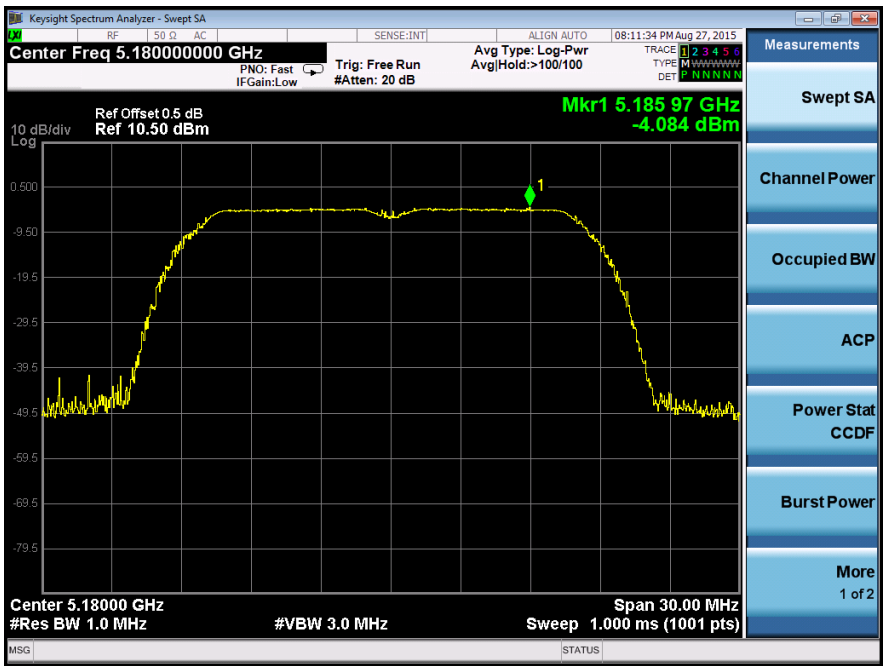
13.1 Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 510kHz/1MHz. VBW ≥ 3 RBW Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section
Submit this plot.

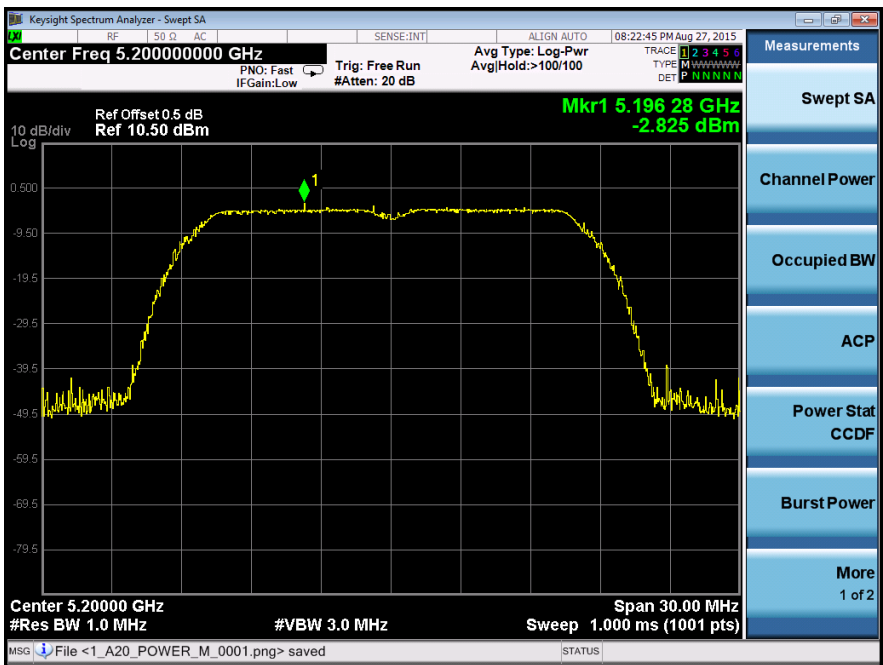
13.2 Test Result:

Band	Operation mode	Power Spectral Density (dBm/MHz)		
		Low	Middle	High
Band I	802.11a	-4.08	-2.83	-4.11
	802.11n(HT20)	-2.21	-3.76	-3.33
	802.11n(HT40)	-6.53	/	/
	Limit	≤17.00dBm/MHz		
Band	Operation mode	Power Spectral Density (dBm/500kHz)		
		Low	Middle	High
Band IV	802.11a	-2.71	-2.72	-3.03
	802.11n(HT20)	-4.31	-4.21	-4.11
	802.11n(HT40)	-5.47	/	-6.07
	Limit	≤30.00dBm/500KHz		

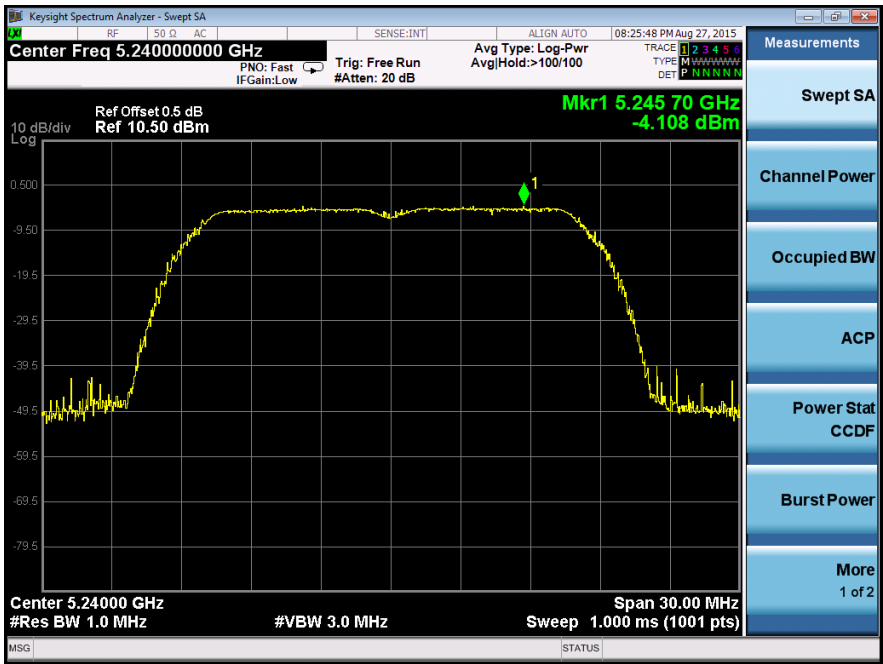
Test result plots shown as follows:



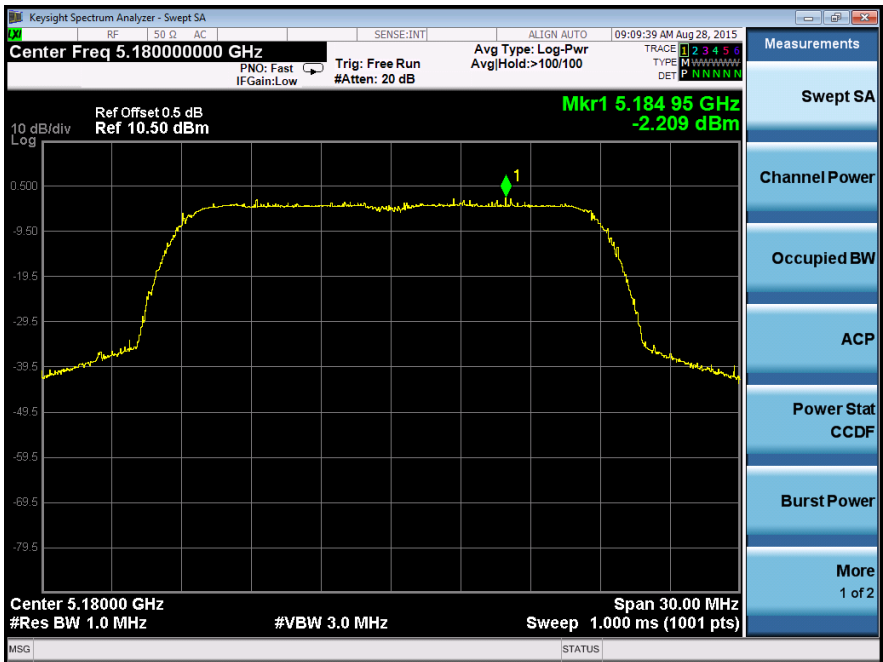
802.11a band I Low channel



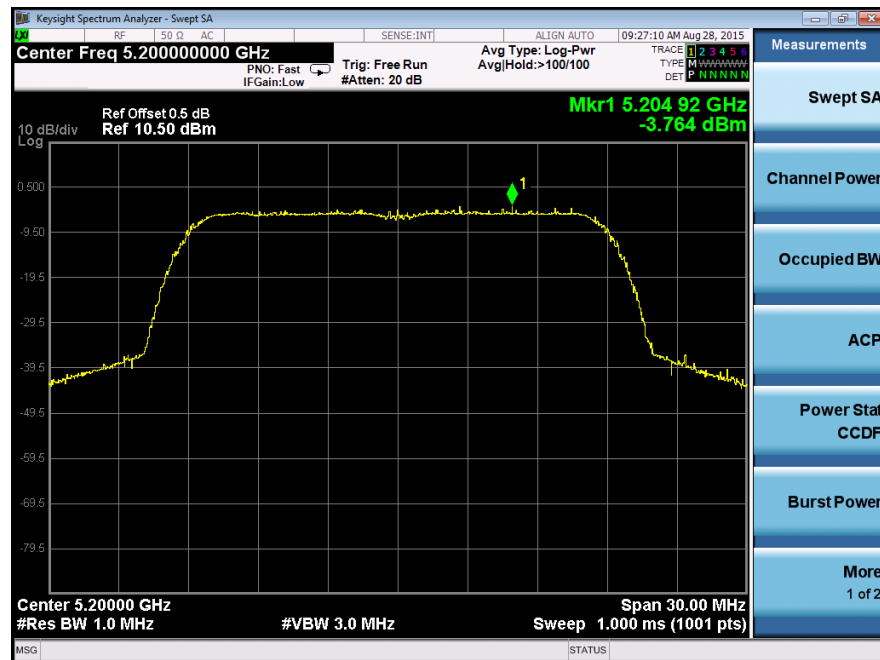
802.11a band I Middle channel



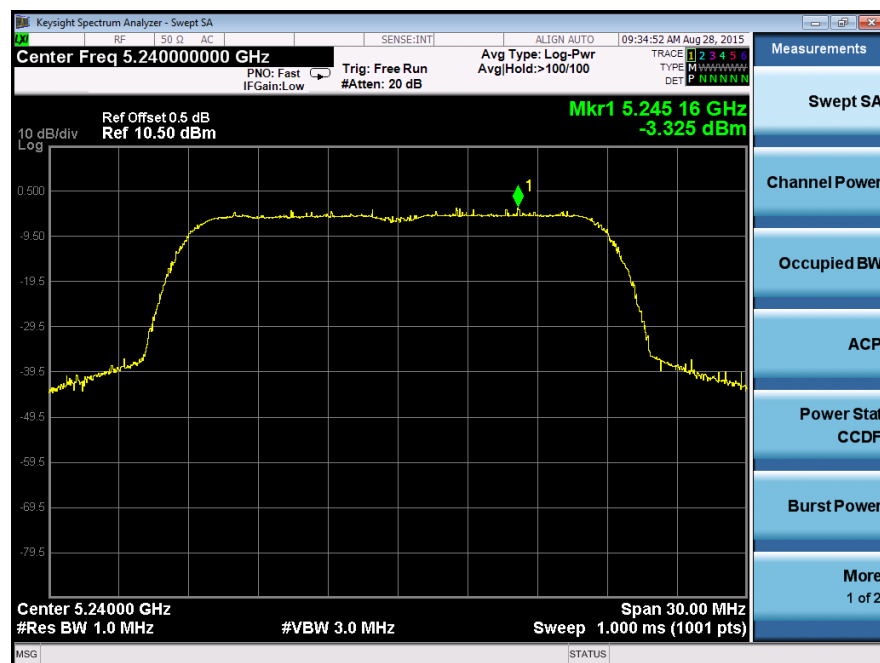
802.11a band I High channel



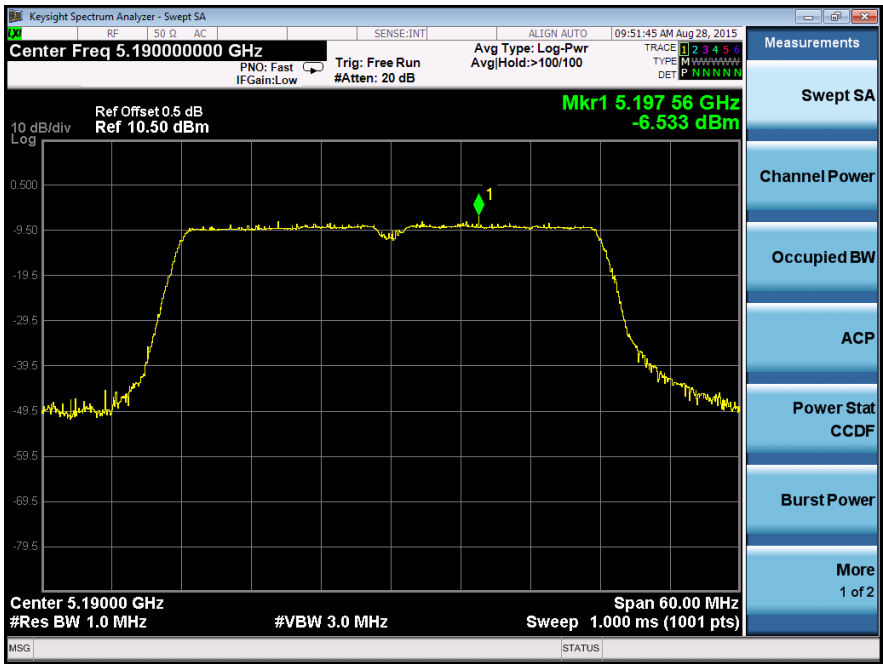
802.11n(HT20) band I Low channel



802.11n(HT20) band I Middle channel



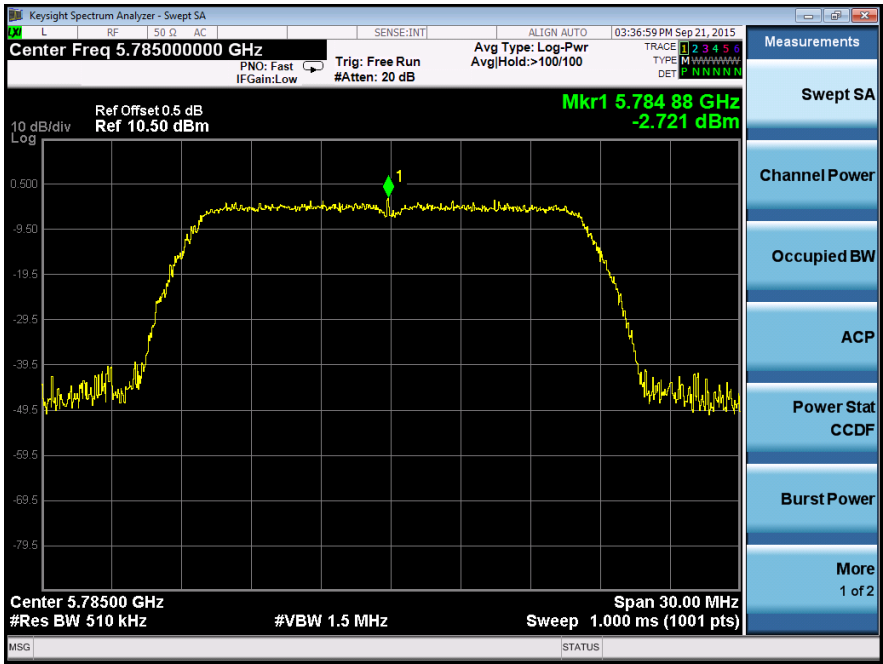
802.11n(HT20) band I High channel



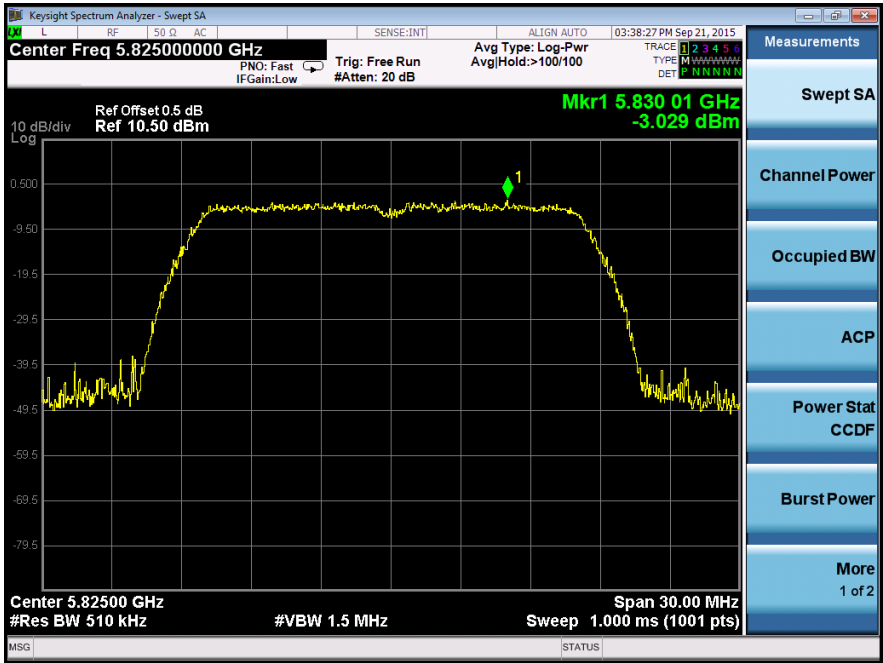
802.11n(HT40) band I Low channel



802.11a band IV Low channel



802.11a band IV Middle channel



802.11a band IV High channel



802.11n(HT20) band IV Low channel



802.11n(HT20) band IV Middle channel



802.11n(HT20) band IV High channel



802.11n(HT40) band IV Low channel



802.11n(HT40) band IV High channel

14 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an internal integrated antenna fulfill the requirement of this section.

15 RF Exposure

Remark: refer to SAR test report: WTS15S0832003E.

=====End of Report=====