

FCC REPORT

(UNII)

Applicant: GROUPE SFIT

Address of Applicant: 80/84 route de la Libération 77340 PONTAULT COMBAULT
France

Equipment Under Test (EUT)

Product Name: 13.3-INCH 2 IN 1 TABLET

Model No.: HERO13C

Trade mark: THOMSON

FCC ID: 2AQOO-HERO13C

Applicable standards: FCC CFR Title 47 Part 15 Subpart E Section 15.407

Date of sample receipt: 15 Nov., 2018

Date of Test: 15 Nov., to 03 Dec., 2018

Date of report issued: 04 Dec., 2018

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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2 Version

Version No.	Date	Description
00	04 Dec., 2018	Original

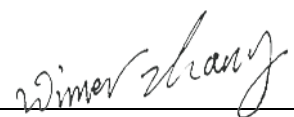
Tested by:


Test Engineer

Date:

04 Dec., 2018

Reviewed by:


Project Engineer

Date:

04 Dec., 2018

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4 Test Summary

Test Item	Section in CFR 47	Test Result
Antenna requirement	15.203 & 15.407 (a)	Pass
AC Power Line Conducted Emission	15.207	Pass
Conducted Peak Output Power	15.407 (a) (1) (iv) & (a) (3)	Pass
26dB Occupied Bandwidth	15.407 (a) (5)	Pass
6dB Emission Bandwidth	15.407(e)	Pass
Power Spectral Density	15.407 (a) (1) (iv) & (a) (3)	Pass
Band Edge	15.407(b)	Pass
Spurious Emission	15.407 (b) & 15.205 & 15.209	Pass
Frequency Stability	15.407(g)	Pass
<i>Pass: The EUT complies with the essential requirements in the standard.</i>		
<i>N/A: N/A: Not Applicable.</i>		

5 General Information

5.1 Client Information

Applicant:	GROUPSFIT
Address:	80/84 route de la Libération 77340 PONTAULT COMBAULT France
Manufacturer	GROUPSFIT
Address:	80/84 route de la Libération 77340 PONTAULT COMBAULT France
Factory:	Shenzhen Ou Du Li Fang Technology Co., Ltd.
Address:	1-3 Floor, A building, 3rd factory, Yujianfeng Industry park, 289# Huafan Road, Tongsheng community, Dalang, Honghua District, Shenzhen

5.2 General Description of E.U.T.

Product Name:	13.3-INCH 2 IN 1 TABLET
Model No.:	HERO13C
Operation Frequency:	Band 1: 5150MHz-5250MHz Band 4: 5725MHz-5825MHz
Channel numbers:	Band 1: 802.11a/802.11n20: 4, 802.11n40: 2, 802.11ac: 1 Band 4: 802.11a/802.11n20: 5, 802.11n40: 2, 802.11ac: 1
Channel separation:	802.11a/802.11n20: 20MHz, 802.11n40: 40MHz, 802.11ac: 80MHz
Modulation technology (IEEE 802.11a):	BPSK, QPSK, 16-QAM, 64-QAM
Modulation technology (IEEE 802.11n):	BPSK, QPSK, 16-QAM, 64-QAM
Modulation technology (IEEE 802.11ac):	BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM
Data speed (IEEE 802.11a):	6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps, 54Mbps
Data speed (IEEE 802.11n20):	MCS0: 6.5Mbps, MCS1:13Mbps, MCS2:19.5Mbps, MCS3:26Mbps, MCS4:39Mbps, MCS5:52Mbps, MCS6:58.5Mbps, MCS7:65Mbps
Data speed (IEEE 802.11n40):	MCS0:15Mbps, MCS1:30Mbps, MCS2:45Mbps, MCS3:60Mbps, MCS4:90Mbps, MCS5:120Mbps, MCS6:135Mbps, MCS7:150Mbps
Data speed (IEEE 802.11ac):	Up to 433.3Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.3 dBi (Main and Aux)
Power supply:	Rechargeable Li-ion Battery DC7.6V-5500mAh
AC adapter:	Model: AK36WG-1200250U Input: AC100-240V, 50/60Hz, 0.8A Output: DC 12.0V, 2500mA
Remarks	EUT belongs to SISO, they have main antenna and Aux antenna respectively.
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

Operation Frequency each of channel					
Band 1					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180MHz	38	5190MHz	42	5210MHz
40	5200MHz	46	5230MHz		
44	5220MHz				
48	5240MHz				
Band 4					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	151	5755MHz	155	5775MHz
153	5765MHz	159	5795MHz		
157	5785MHz				
161	5805MHz				
165	5825MHz				

Note:

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:

Band 1					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest channel	5180MHz	Lowest channel	5190MHz	Middle channel	5210MHz
Middle channel	5200MHz	Highest channel	5230MHz		
Highest channel	5240MHz				
Band 4					
802.11a/802.11n20		802.11n40		802.11ac	
Channel	Frequency	Channel	Frequency	Channel	Frequency
Lowest channel	5745MHz	Lowest channel	5755MHz	Middle channel	5775MHz
Middle channel	5785MHz	Highest channel	5795MHz		
Highest channel	5825MHz				

5.3 Test environment and test mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test mode:	
Continuously transmitting mode	Keep the EUT in 100% duty cycle transmitting with modulation.
We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:	
Per-scan all kind of data rate, and found the follow list were the worst case.	
Mode	Data rate
802.11a	6 Mbps
802.11n20	6.5 Mbps
802.11n40	13.5 Mbps
802.11ac	29.3 Mbps

5.4 Description of Support Units

N/A

5.5 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±2.22 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±2.76 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.28 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.72 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±2.88 dB (k=2)

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Registration No.: 727551**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The Registration No. is 727551.

- **IC - Registration No.: 10106A-1**

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

- **CNAS - Registration No.: CNAS L6048**

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

- **A2LA - Registration No.: 4346.01**

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <https://portal.a2la.org/scopepdf/4346-01.pdf>

5.8 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: <http://www.ccis-cb.com>

5.9 Test Instruments list

Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-16-2018	03-15-2019
Biconical Antenna	SCHWARZBECK	VUBA9117	359	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-16-2018	03-15-2019
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2017	11-20-2018
				11-21-2018	11-20-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		
Pre-amplifier	HP	8447D	2944A09358	03-07-2018	03-06-2019
Pre-amplifier	CD	PAP-1G18	11804	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-07-2018	03-06-2019
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2017	11-20-2018
				11-21-2018	11-20-2019
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-07-2018	03-06-2019
Spectrum Analyzer	Agilent	N9020A	MY50510123	11-10-2017	11-09-2018
				11-21-2018	11-20-2019
Signal Generator	Rohde & Schwarz	SMX	835454/016	03-07-2018	03-06-2019
Signal Generator	R&S	SMR20	1008100050	03-07-2018	03-06-2019
RF Switch Unit	MWRFTTEST	MW200	N/A	N/A	N/A
Test Software	MWRFTTEST	MTS8200	Version: 2.0.0.0		
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2018	03-06-2019
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2018	03-06-2019
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2018	03-06-2019
DC Power Supply	XinNuoEr	WYK-10020K	1409050110020	10-31-2018	10-30-2019
Temperature Humidity Chamber	HengPu	HPGDS-500	20140828008	09-24-2018	09-23-2019
Simulated Station	Rohde & Schwarz	CMW500	140493	07-16-2018	07-15-2019

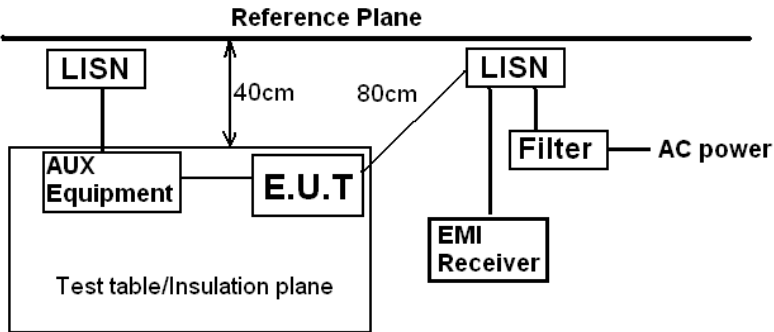
Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-07-2018	03-06-2019
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-07-2018	03-06-2019
LISN	CHASE	MN2050D	1447	03-19-2018	03-18-2019
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2018	07-20-2019
Cable	HP	10503A	N/A	03-07-2018	03-06-2019
EMI Test Software	AUDIX	E3	Version: 6.110919b		

6 Test results and Measurement Data

6.1 Antenna requirement

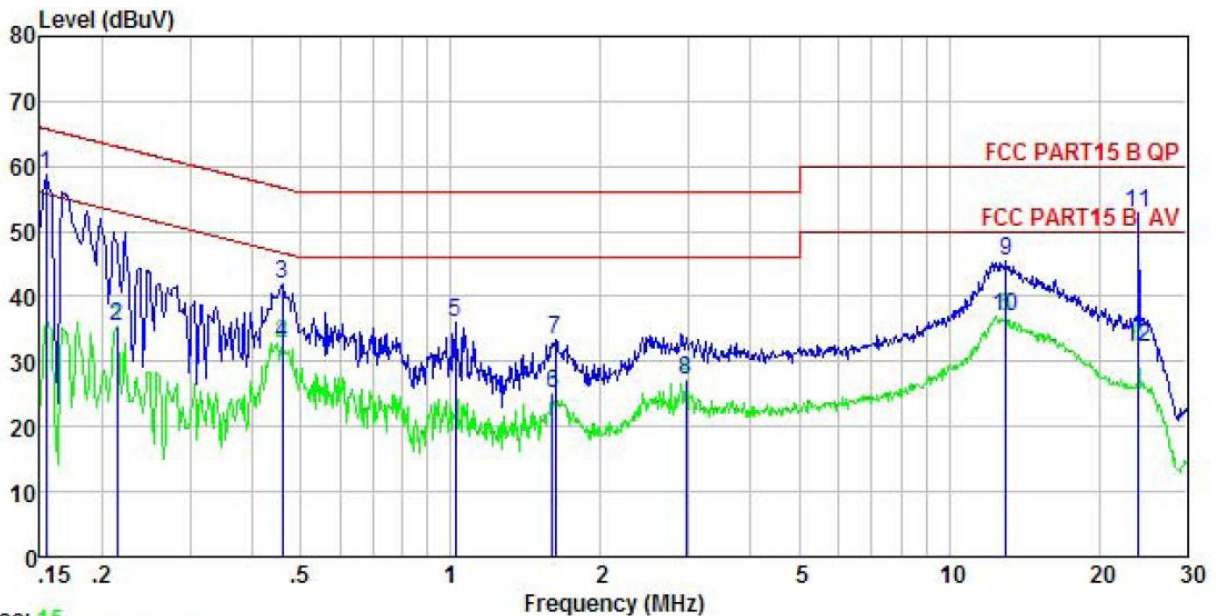
Standard requirement:	FCC Part15 E Section 15.203 /407(a)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.	
E.U.T Antenna:	
The 5G WiFi antenna is an Internal antenna which cannot replace by end-user, the best case gain of the antenna is 2.3 dBi.	
	

6.2 Conducted Emission

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dBUV)	
		Quasi-peak	
	0.15-0.5	66 to 56*	0.15-0.5
	0.5-5	56	0.5-5
	5-30	60	5-30
* Decreases with the logarithm of the frequency.			
Test procedure	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). It provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		
Test setup:	 Remark E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m		
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details.		
Test results:	Passed		

Measurement Data:

Product name:	13.3-INCH 2 IN 1 TABLET	Product model:	HERO13C
Test by:	Carey	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Humi: 55%



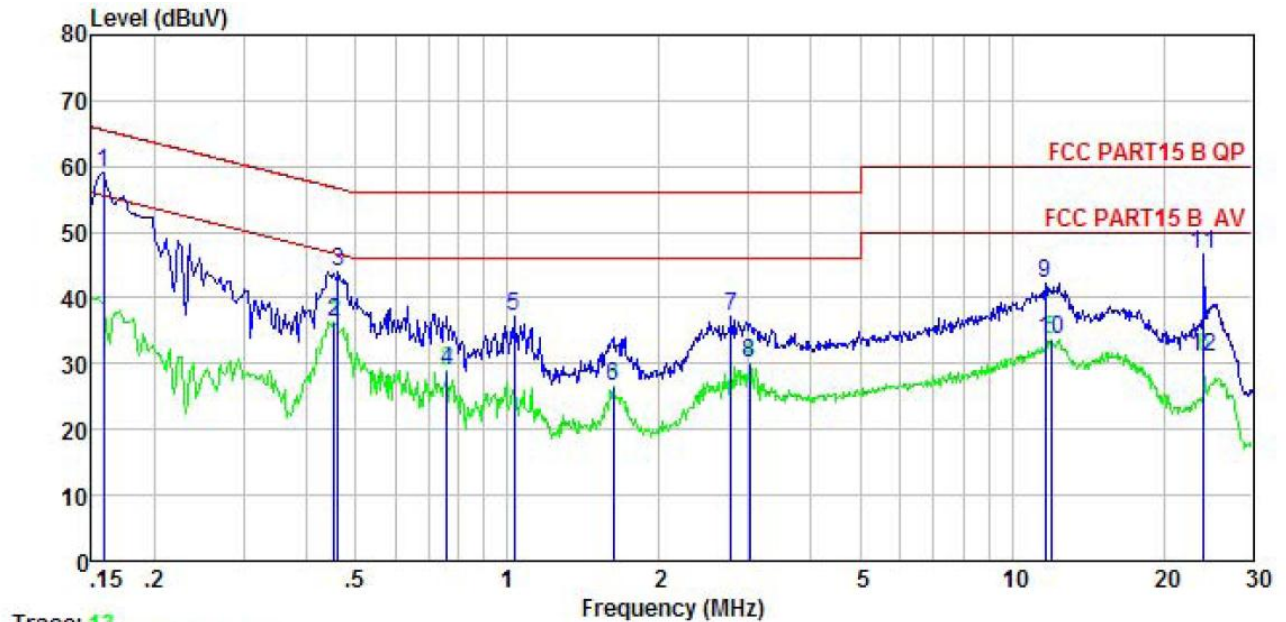
Trace: 15

	Freq	Read	LISN	Cable	Limit	Over	
	MHz	Level	Factor	Loss	Line	Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dB	
1	0.154	47.74	0.18	10.78	58.70	65.78	-7.08 QP
2	0.214	24.55	0.15	10.76	35.46	53.05	-17.59 Average
3	0.459	31.09	0.12	10.74	41.95	56.71	-14.76 QP
4	0.459	22.00	0.12	10.74	32.86	46.71	-13.85 Average
5	1.021	24.98	0.13	10.87	35.98	56.00	-20.02 QP
6	1.602	13.90	0.14	10.93	24.97	46.00	-21.03 Average
7	1.619	22.42	0.14	10.93	33.49	56.00	-22.51 QP
8	2.962	16.03	0.16	10.92	27.11	46.00	-18.89 Average
9	12.988	34.26	0.32	10.91	45.49	60.00	-14.51 QP
10	12.988	25.79	0.32	10.91	37.02	50.00	-12.98 Average
11	24.015	41.65	0.33	10.88	52.86	60.00	-7.14 QP
12	24.015	21.03	0.33	10.88	32.24	50.00	-17.76 Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	13.3-INCH 2 IN 1 TABLET	Product model:	HERO13C
Test by:	Carey	Test mode:	5G Wi-Fi Tx mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



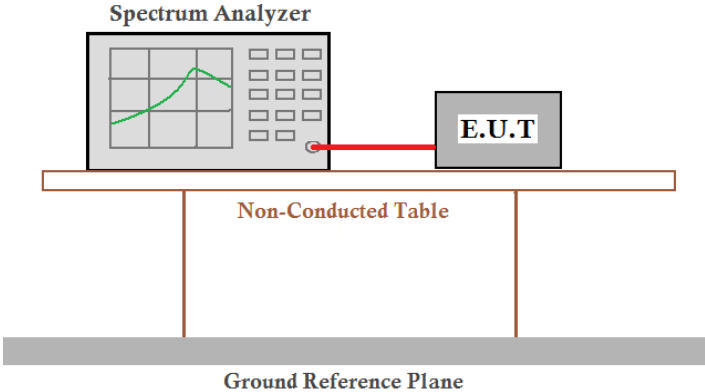
Trace: 13

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.158	47.43	0.98	10.77	59.18	65.56	-6.38	QP
2	0.454	24.71	0.97	10.74	36.42	46.80	-10.38	Average
3	0.461	32.26	0.97	10.74	43.97	56.67	-12.70	QP
4	0.759	17.25	0.97	10.80	29.02	46.00	-16.98	Average
5	1.032	25.37	0.97	10.87	37.21	56.00	-18.79	QP
6	1.619	14.53	0.98	10.93	26.44	46.00	-19.56	Average
7	2.779	25.37	0.99	10.93	37.29	56.00	-18.71	QP
8	3.025	18.08	0.99	10.92	29.99	46.00	-16.01	Average
9	11.621	30.29	0.98	10.93	42.20	60.00	-17.80	QP
10	11.933	21.76	0.97	10.92	33.65	50.00	-16.35	Average
11	24.015	35.08	0.67	10.88	46.63	60.00	-13.37	QP
12	24.015	19.32	0.67	10.88	30.87	50.00	-19.13	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

6.3 Conducted Output Power

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a) (3)
Test Method:	ANSI C63.10: 2013, KDB789033
Limit:	Band 1: 24dBm Band 4: 30dBm
Test setup:	 The diagram illustrates the test setup for conducted output power measurement. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table, which is supported by two vertical legs. Below the table is a Ground Reference Plane.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

AUX ANT:

Band 1				
Mode	Test CH	Conducted Output power (dBm)	Limit (dBm)	Result
802.11a	Lowest	3.12	24.00	Pass
	Middle	3.56		
	Highest	3.81		
802.11n20	Lowest	3.15	24.00	Pass
	Middle	3.37		
	Highest	3.46		
802.11n40	Lowest	3.09	24.00	Pass
	Highest	3.18		
802.11ac80	Lowest	2.82	24.00	Pass

Band 4				
Mode	Test CH	Conducted Output power (dBm)	Limit (dBm)	Result
802.11a	Lowest	2.86	30.00	Pass
	Middle	2.90		
	Highest	2.73		
802.11n20	Lowest	2.73	30.00	Pass
	Middle	2.70		
	Highest	2.59		
802.11n40	Lowest	2.40	30.00	Pass
	Highest	2.82		
802.11ac80	Lowest	2.68	30.00	Pass

MAIN ANT

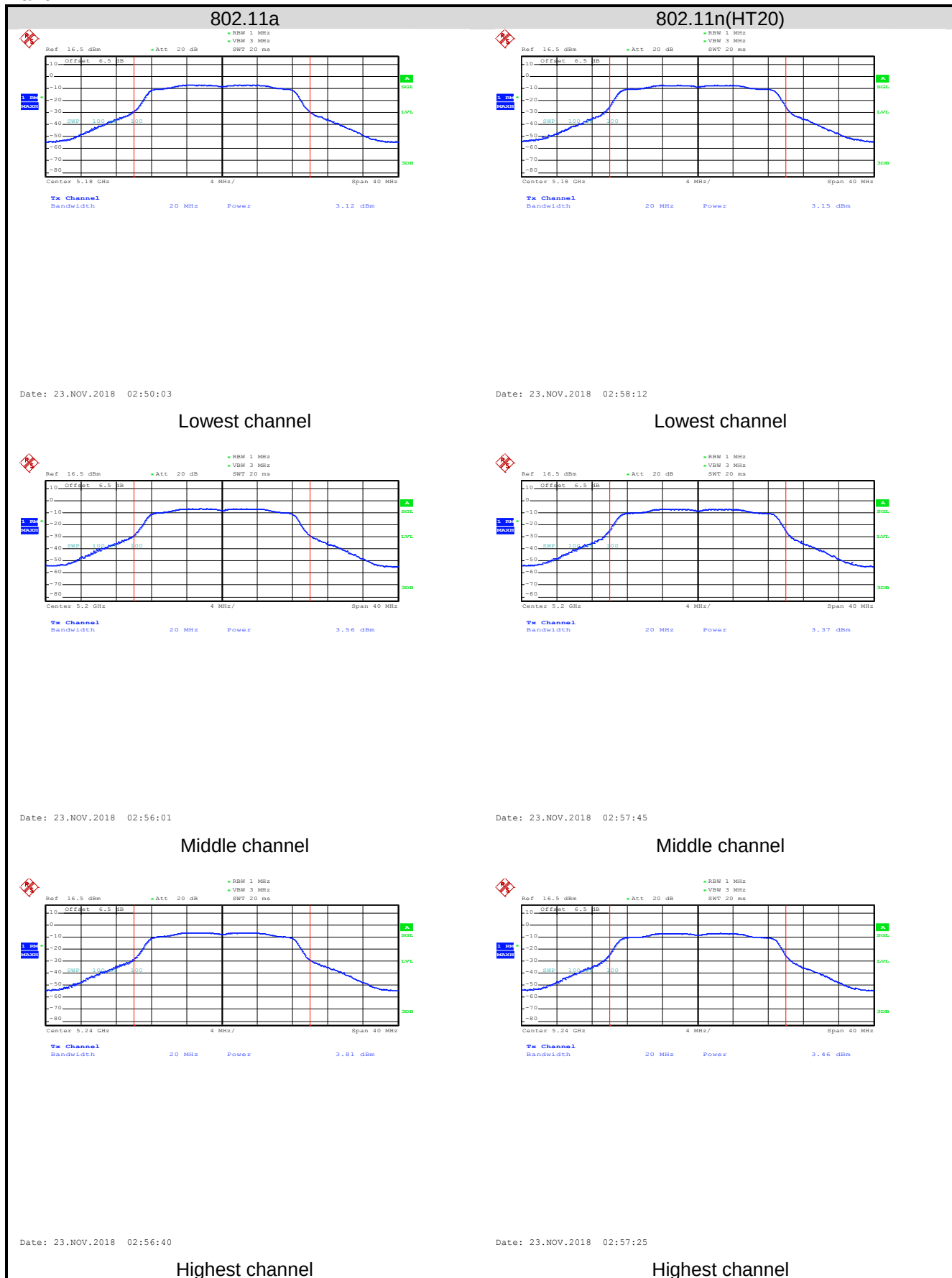
Band 1				
Mode	Test CH	Conducted Output power (dBm)	Limit (dBm)	Result
802.11a	Lowest	3.28	24.00	Pass
	Middle	3.43		
	Highest	3.34		
802.11n20	Lowest	3.43	24.00	Pass
	Middle	3.48		
	Highest	3.34		
802.11n40	Lowest	3.06	24.00	Pass
	Highest	2.86		
802.11ac80	Lowest	2.59	24.00	Pass

Band 4				
Mode	Test CH	Conducted Output power (dBm)	Limit (dBm)	Result
802.11a	Lowest	2.87	30.00	Pass
	Middle	2.79		
	Highest	2.63		
802.11n20	Lowest	2.57	30.00	Pass
	Middle	2.83		
	Highest	2.51		
802.11n40	Lowest	2.11	30.00	Pass
	Highest	2.22		
802.11ac80	Lowest	2.32	30.00	Pass

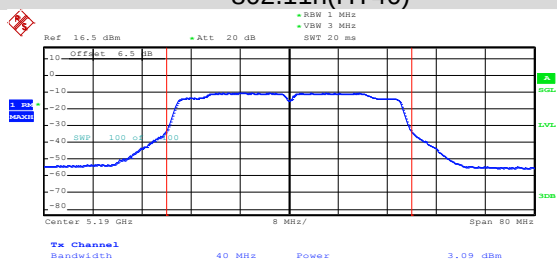
Test plot as follows:

AUX ANT

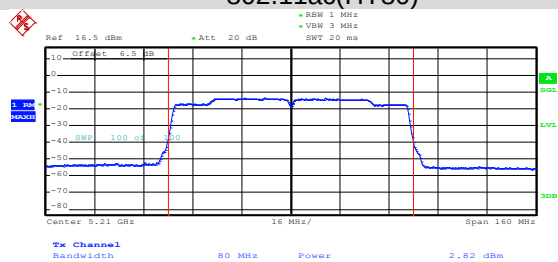
Band 1:



802.11n(HT40)



802.11ac(HT80)

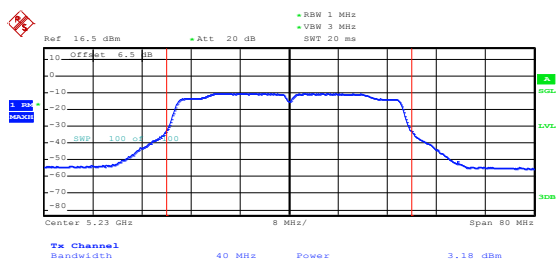


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Lowest channel

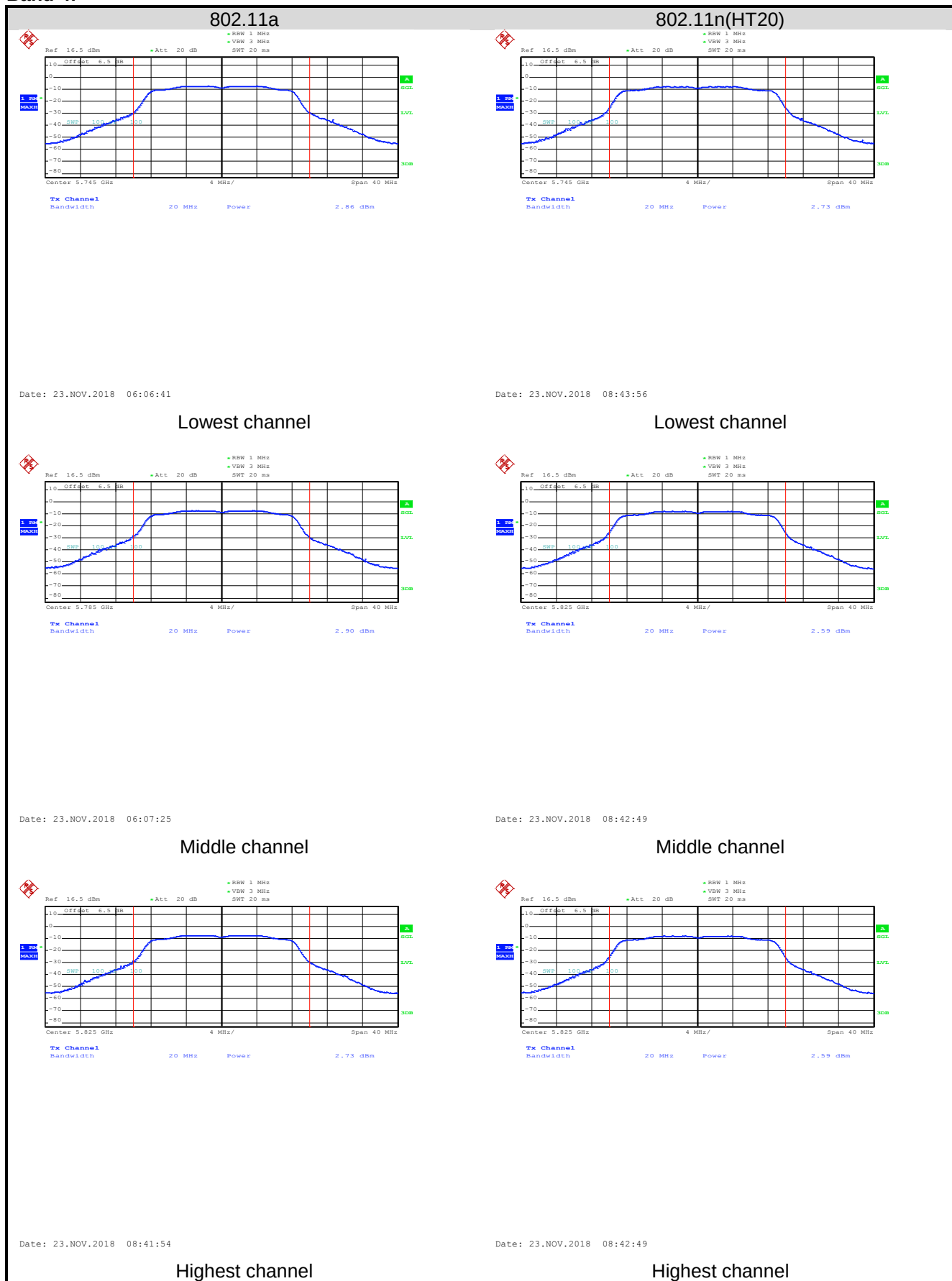
Middle channel

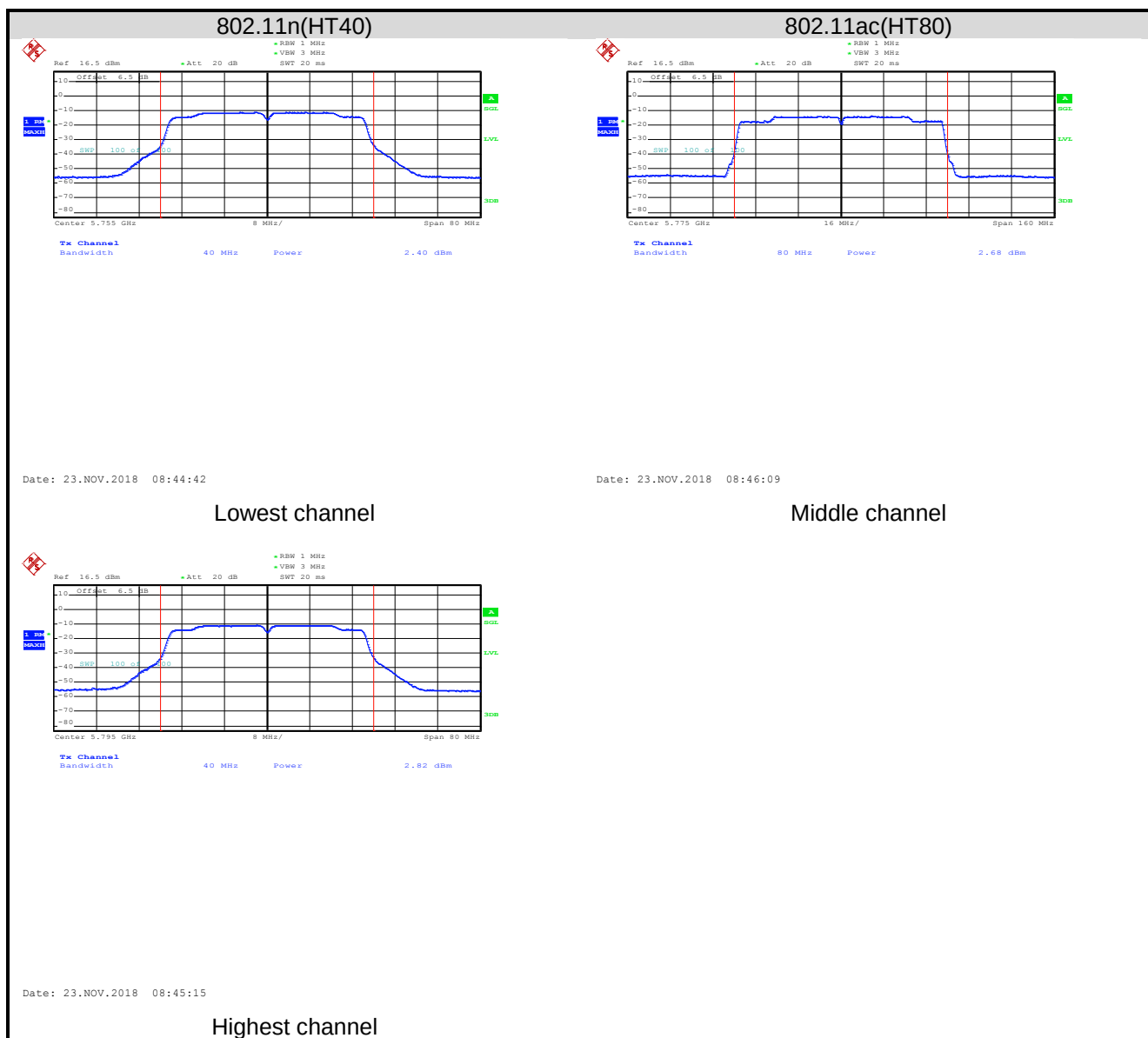


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Highest channel

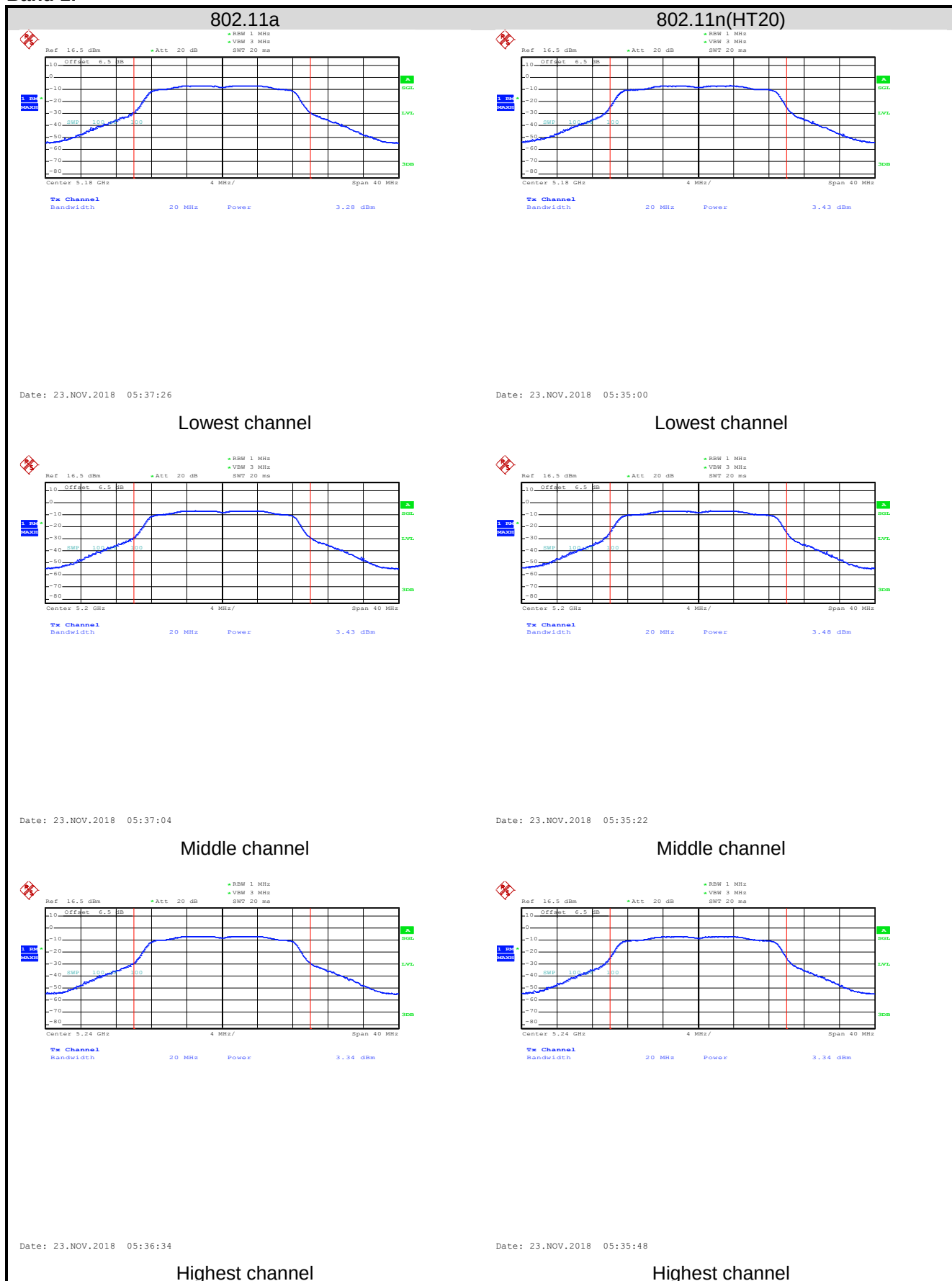
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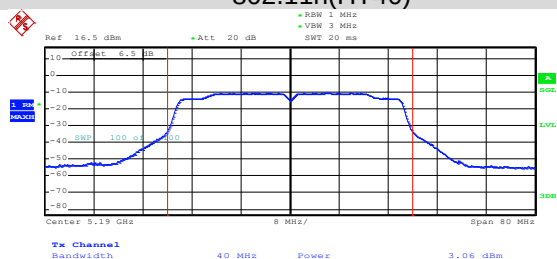


MAIN ANT

Band 1:

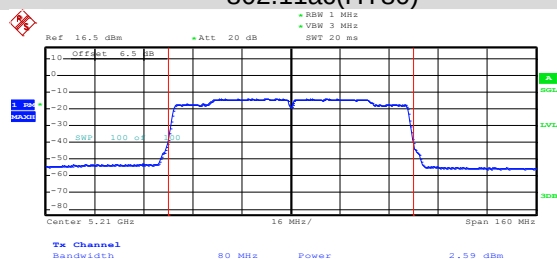


802.11n(HT40)



Date: 23.NOV.2018 05:33:30

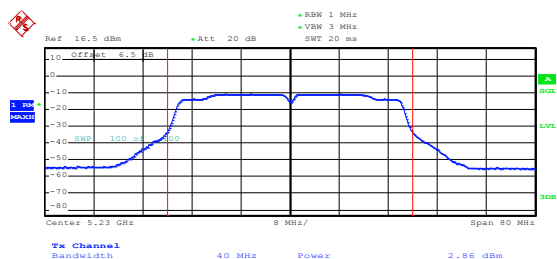
802.11ac(HT80)



Date: 23.NOV.2018 05:23:03

Lowest channel

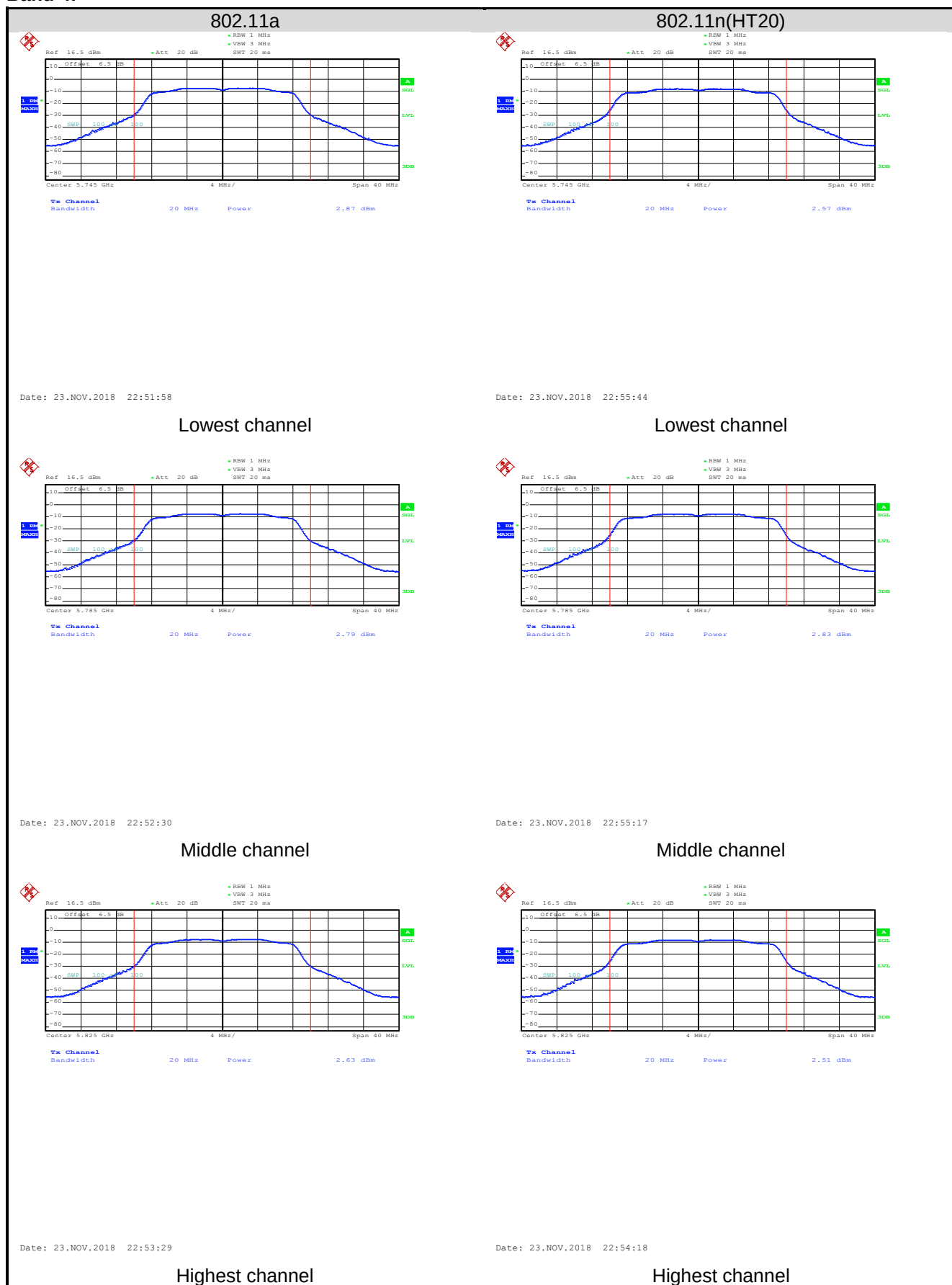
Middle channel



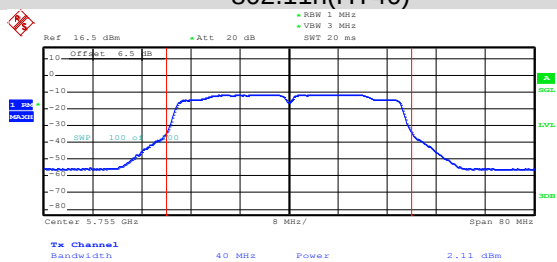
Date: 23.NOV.2018 05:33:51

Highest channel

Band 4:

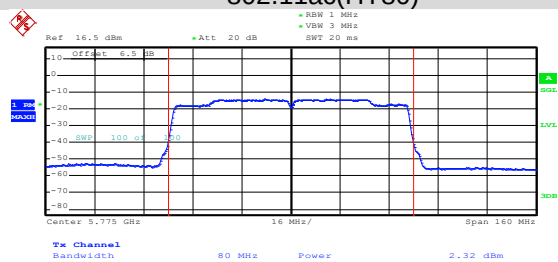


802.11n(HT40)



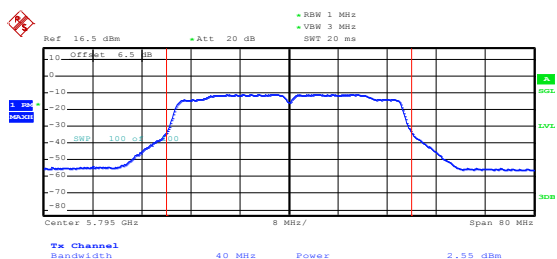
Date: 23.NOV.2018 22:59:14

802.11ac(HT80)



Date: 23.NOV.2018 23:00:56

Lowest channel

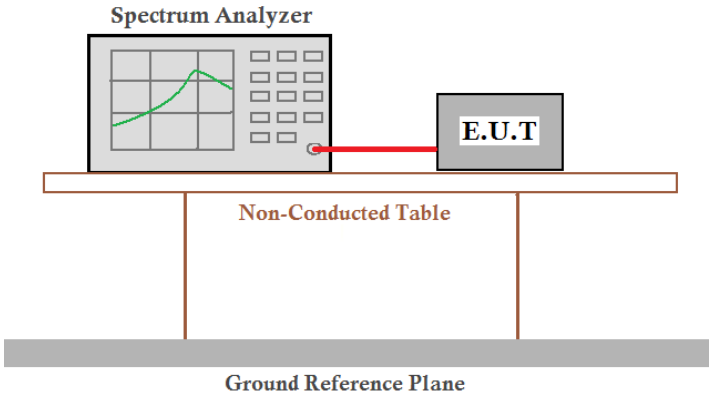


Date: 23.NOV.2018 22:59:35

Middle channel

Highest channel

6.4 Occupy Bandwidth

Test Requirement:	FCC Part15 E Section 15.407 (a) (5) and Section 15.407 (e)
Test Method:	ANSI C63.10:2013 and KDB 789033
Limit:	Band 1/2/3/4: N/A (26dB Emission Bandwidth and 99% Occupy Bandwidth) Band 4: >500kHz (6dB Bandwidth)
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

AUX ANT

Band 1:

Test Channel	26dB Emission Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	23.12	23.92	42.24	---	N/A	PASS
Middle	23.60	23.76	---	80.64		
Highest	23.60	23.12	42.72	---		
Test Channel	99% Occupy Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	16.88	18.00	36.16	---	N/A	PASS
Middle	16.88	18.00	---	75.52		
Highest	16.88	18.00	36.16	---		

Band 4:

Test Channel	6dB Emission Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	15.36	16.16	35.52	---	N/A	PASS
Middle	15.36	15.52	---	76.16		
Highest	15.52	16.00	35.52	---		
Test Channel	26dB Emission Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	23.28	23.20	42.56	---	N/A	PASS
Middle	22.80	23.84	---	80.64		
Highest	23.52	24.16	42.40	---		
Test Channel	99% Occupy Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	16.96	17.92	36.16	---	N/A	PASS
Middle	16.88	17.92	---	75.52		
Highest	16.88	17.92	36.16	---		

MAIN ANT

Band 1:

Test Channel	26dB Emission Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	23.12	23.60	42.08	---	N/A	PASS
Middle	22.96	23.68	---	80.64		
Highest	23.20	24.00	42.40	---		
Test Channel	99% Occupy Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	16.96	17.92	36.16	---	N/A	PASS
Middle	16.88	17.92	---	75.52		
Highest	16.88	17.92	36.16	---		

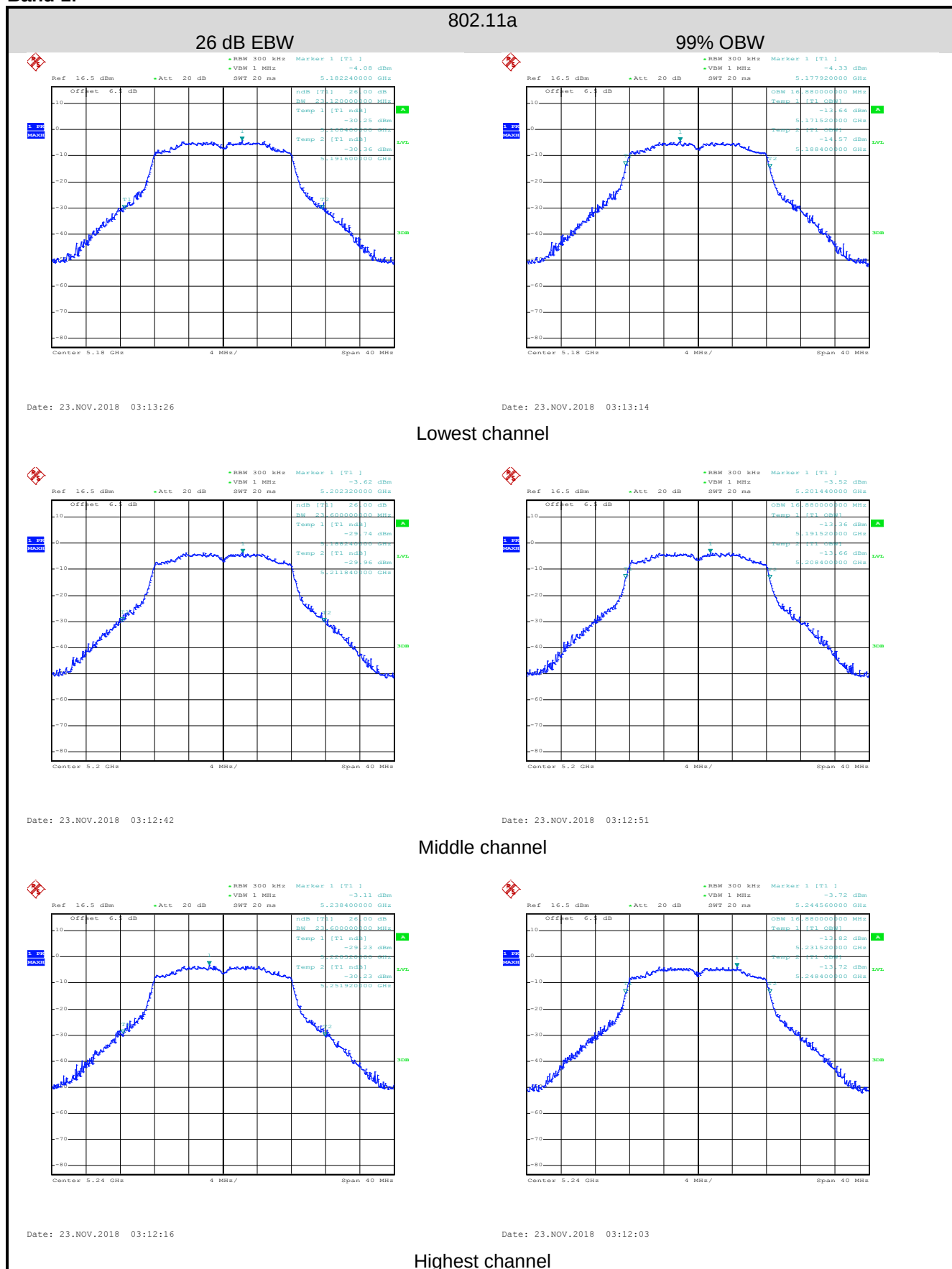
Band 4:

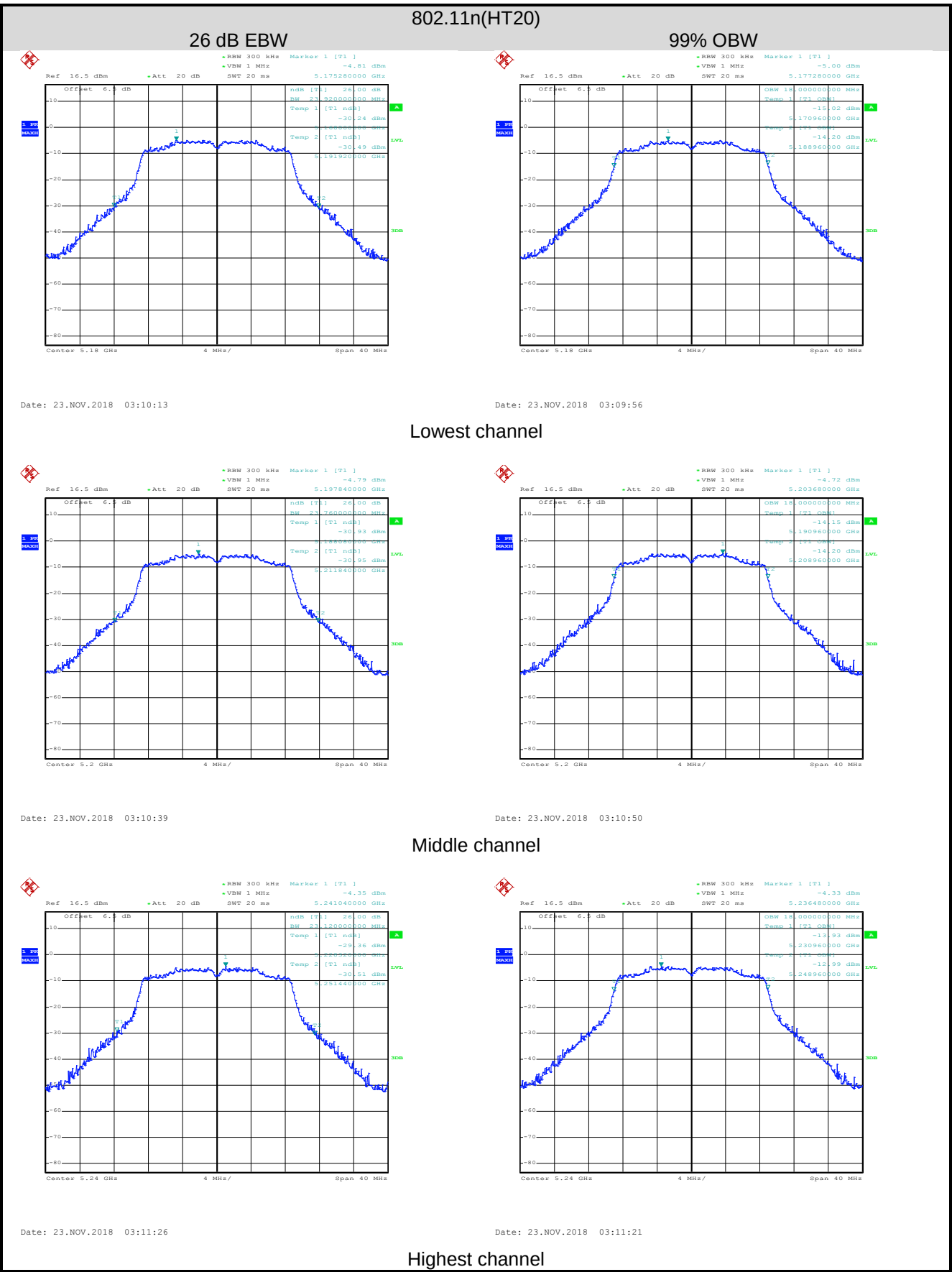
Test Channel	6dB Emission Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	15.52	15.68	35.52	---	N/A	PASS
Middle	15.28	16.16	---	75.16		
Highest	15.52	16.32	35.52	---		
Test Channel	26dB Emission Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	23.52	23.84	43.04	---	N/A	PASS
Middle	23.36	24.32	---	80.64		
Highest	23.64	23.52	42.08	---		
Test Channel	99% Occupy Bandwidth (MHz)				Limit	Result
	802.11a	802.11n (HT20)	802.11n (HT40)	802.11ac (HT80)		
Lowest	16.96	17.92	36.16	---	N/A	PASS
Middle	16.88	17.92	---	75.52		
Highest	16.80	17.92	36.16	---		

Test plot as follows:

AUX ANT

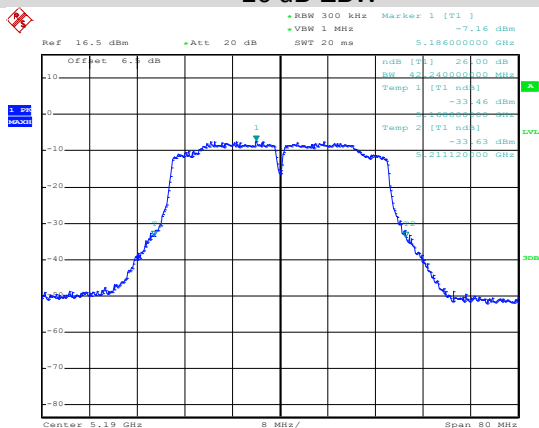
Band 1:





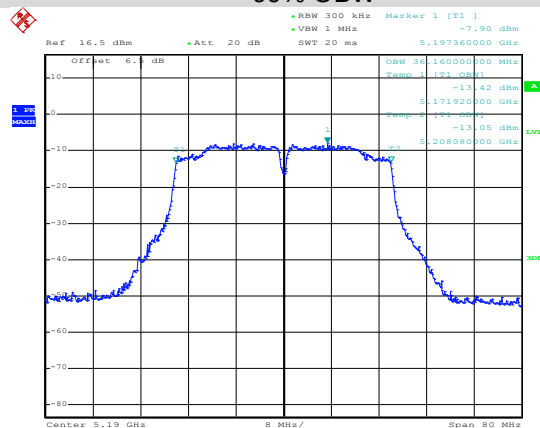
802.11n(HT40)

26 dB EBW



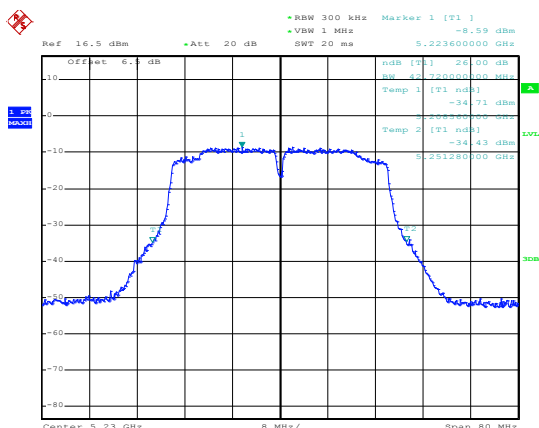
Date: 23.NOV.2018 03:08:10

99% OBW

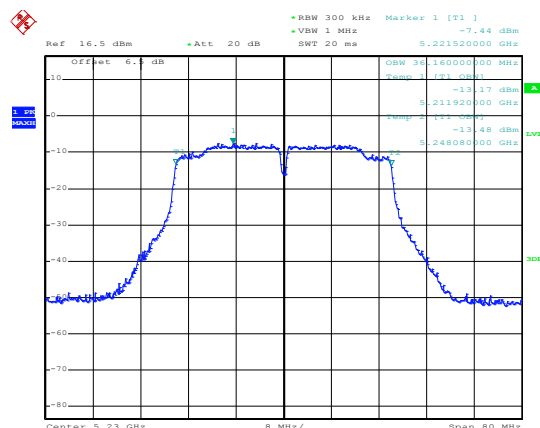


Date: 23.NOV.2018 03:09:16

Lowest channel

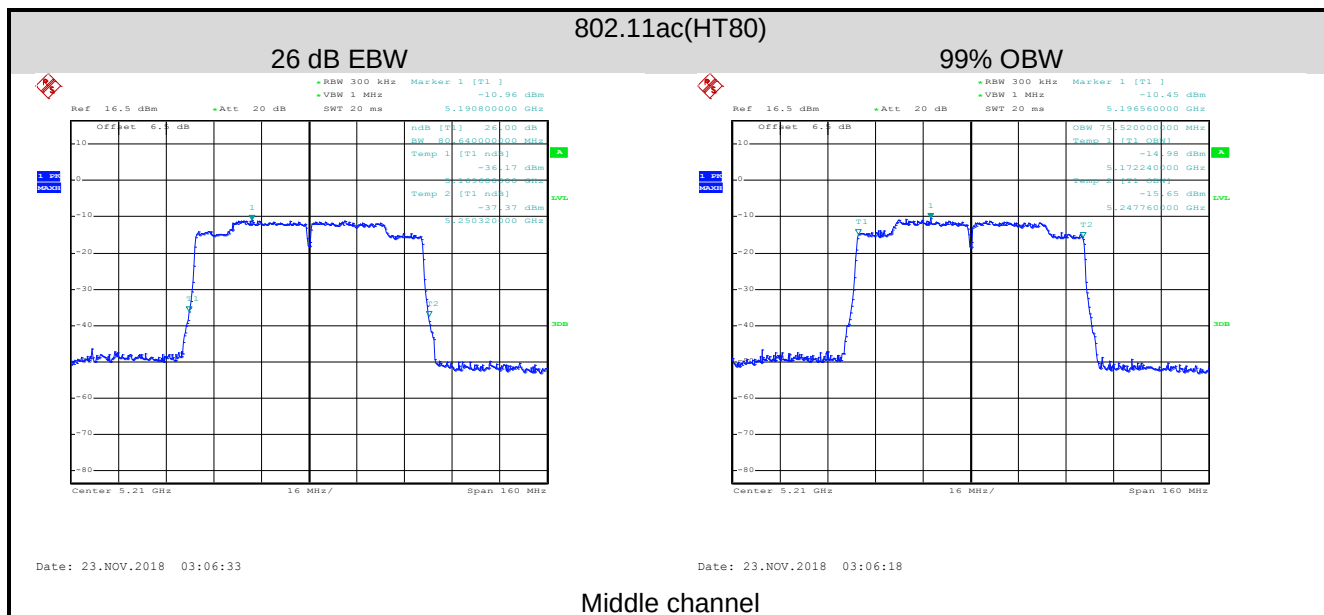


Date: 23.NOV.2018 03:08:34

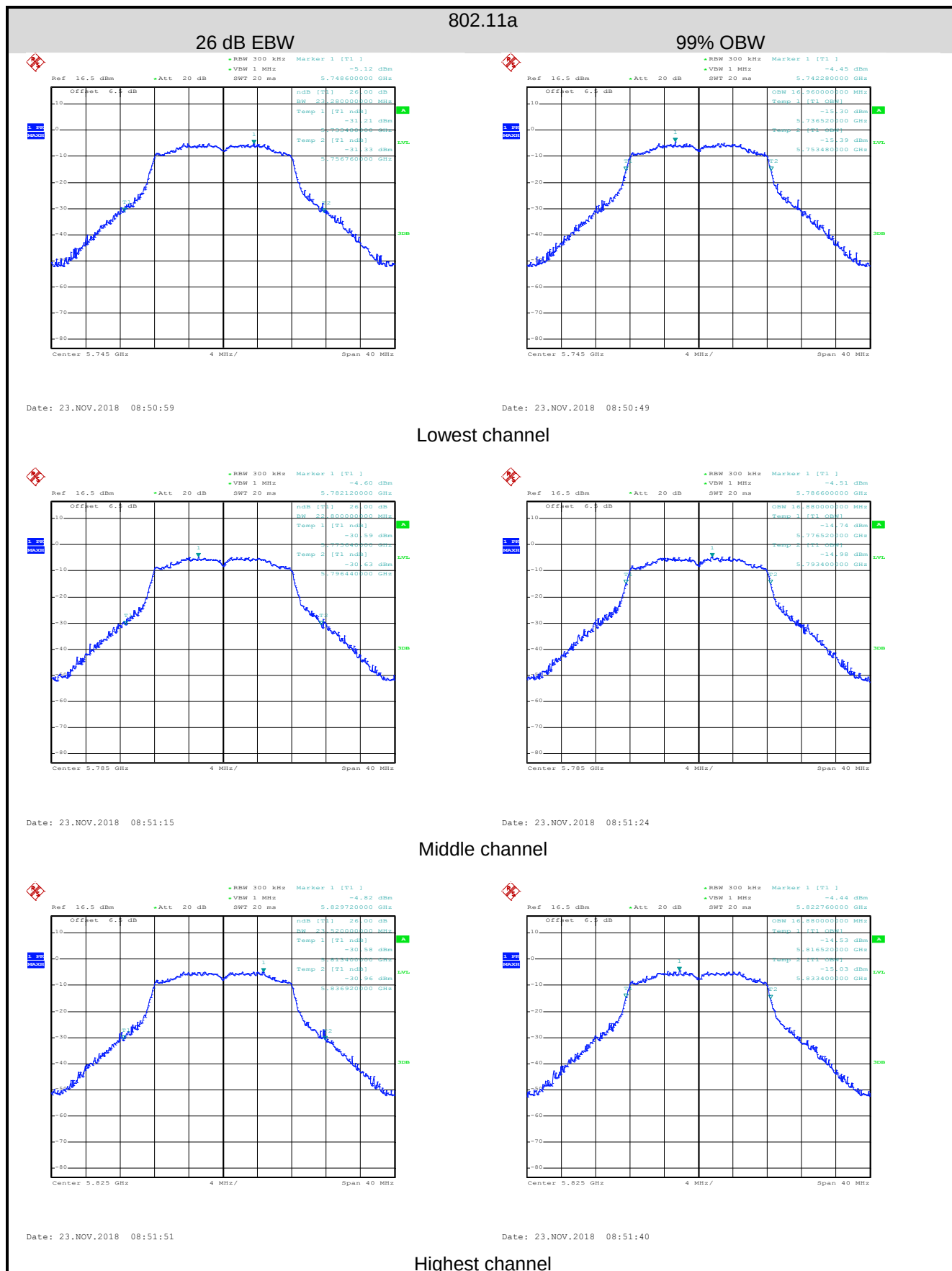


Date: 23.NOV.2018 03:08:50

Highest channel

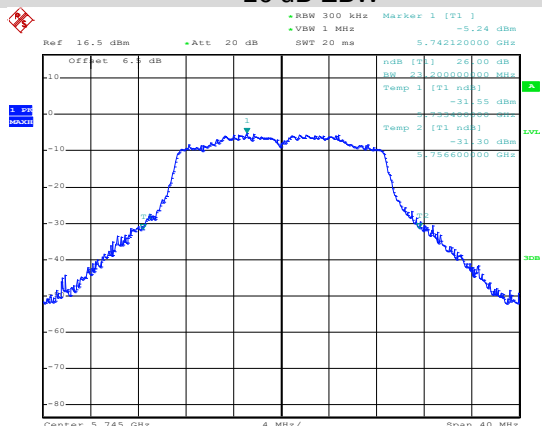


Band 4:



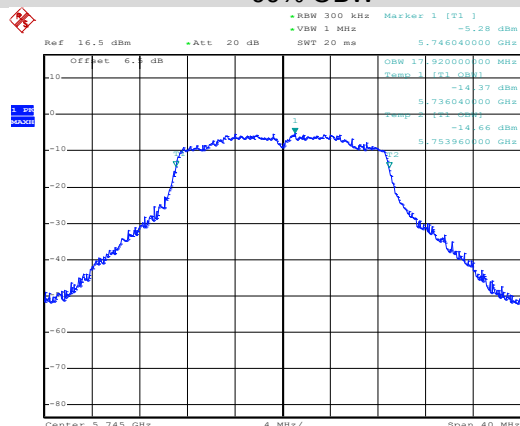
802.11n(HT20)

26 dB EBW



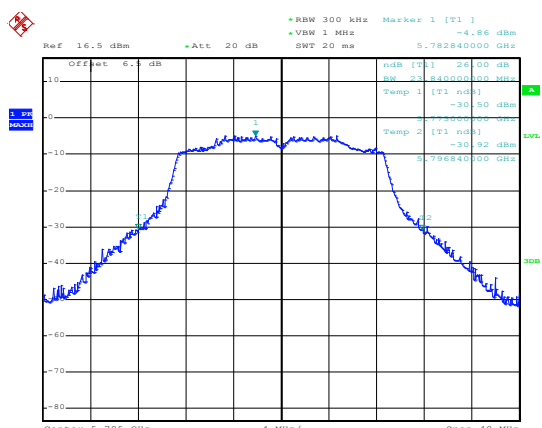
Date: 23.NOV.2018 08:50:16

99% OBW

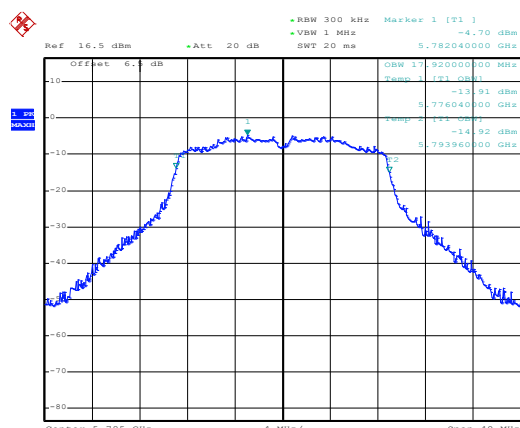


Date: 23.NOV.2018 08:50:24

Lowest channel

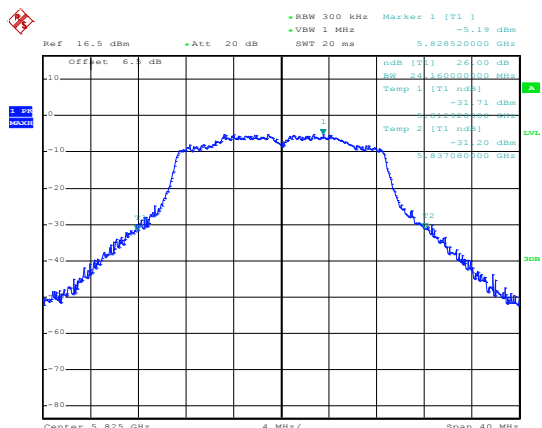


Date: 23.NOV.2018 08:49:56

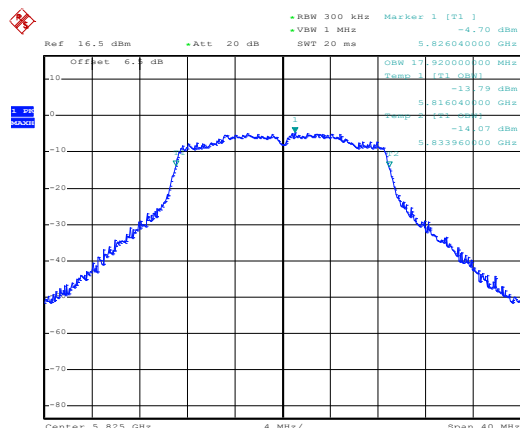


Date: 23.NOV.2018 08:49:47

Middle channel

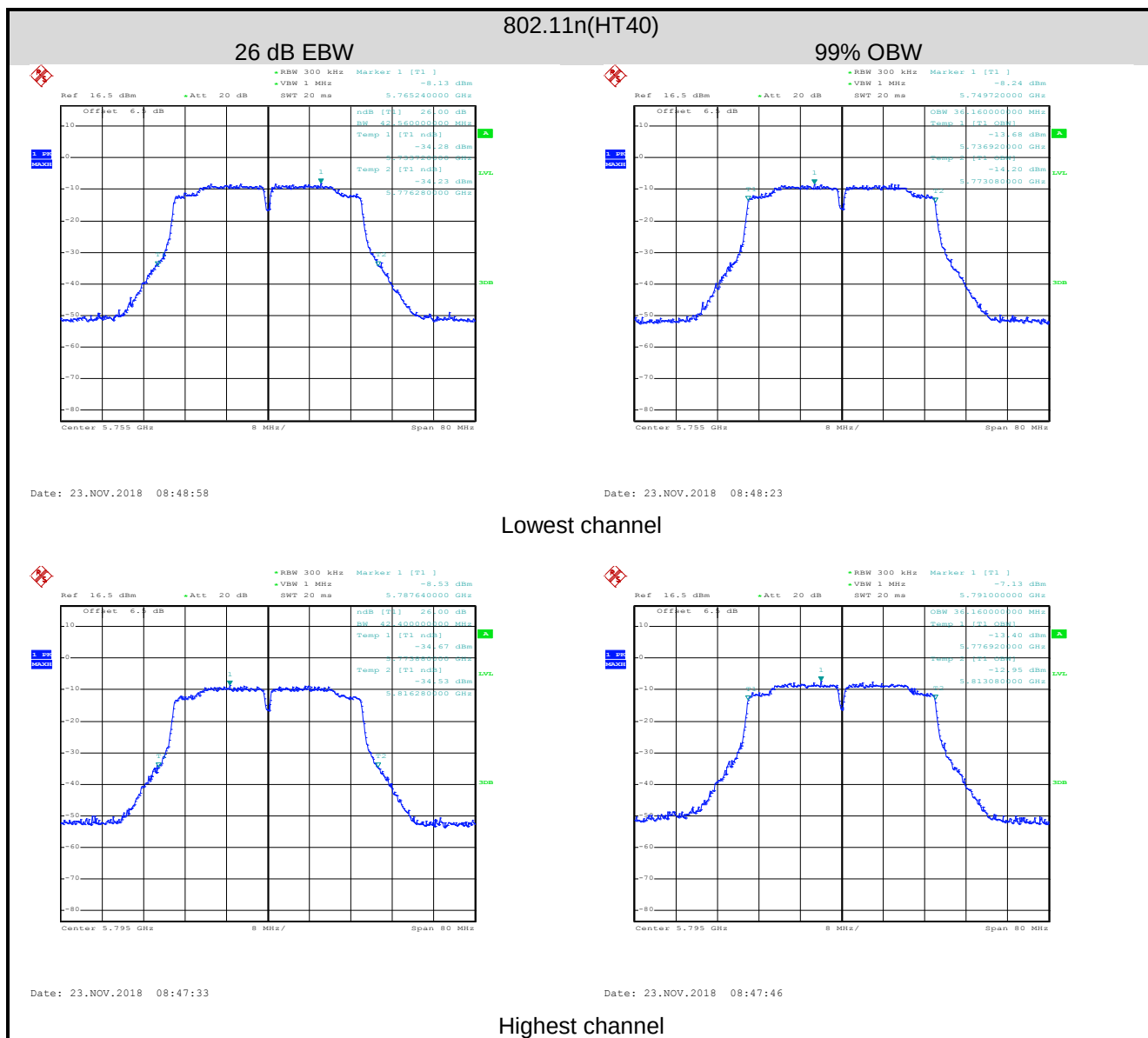


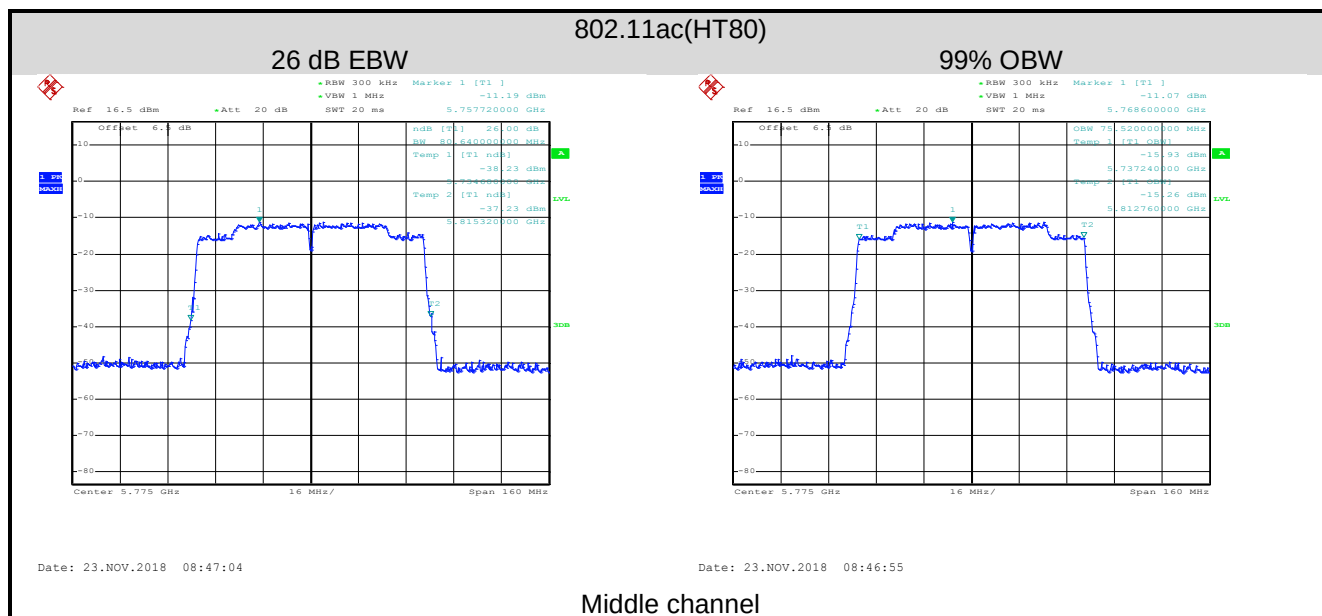
Date: 23.NOV.2018 08:49:24



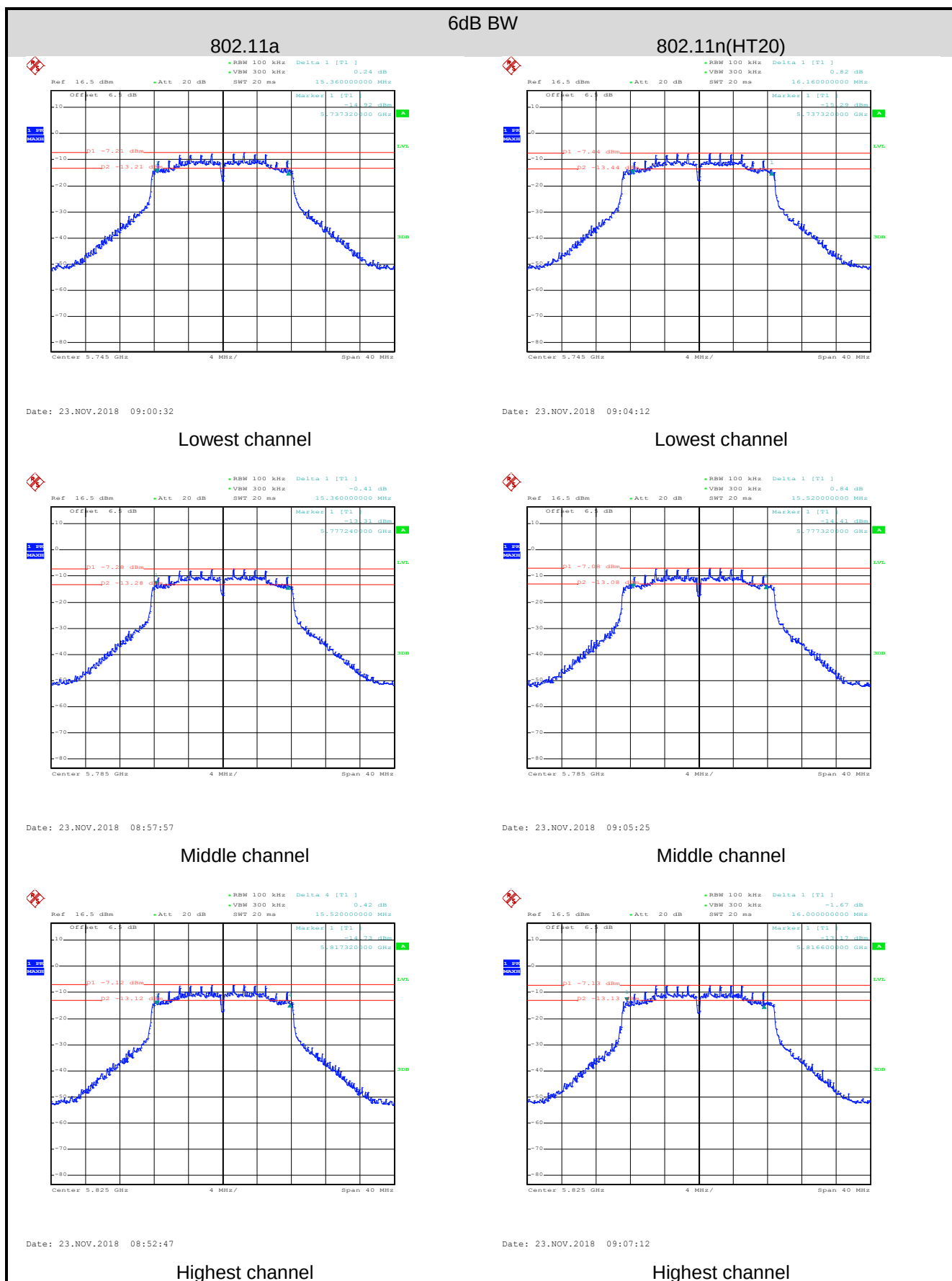
Date: 23.NOV.2018 08:49:32

Highest channel



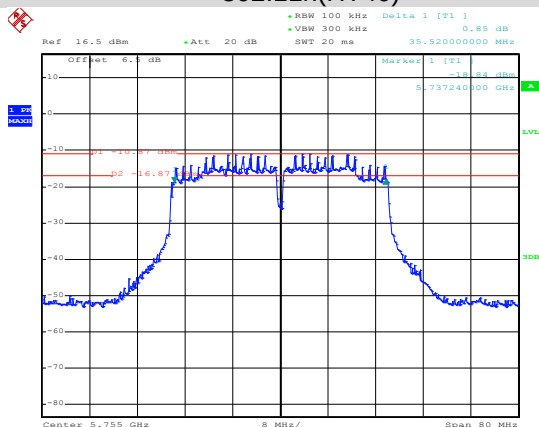


Band 4:



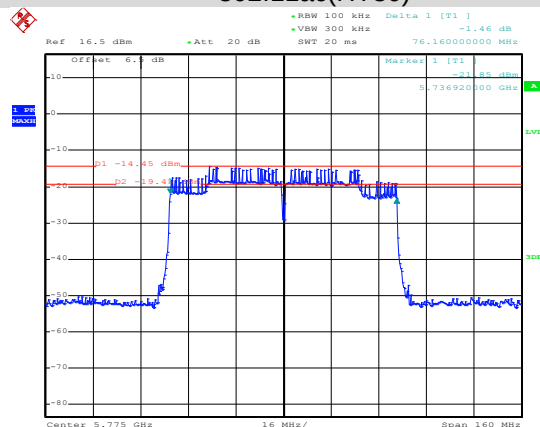
6dB BW

802.11n(HT40)



Date: 23.NOV.2018 09:09:55

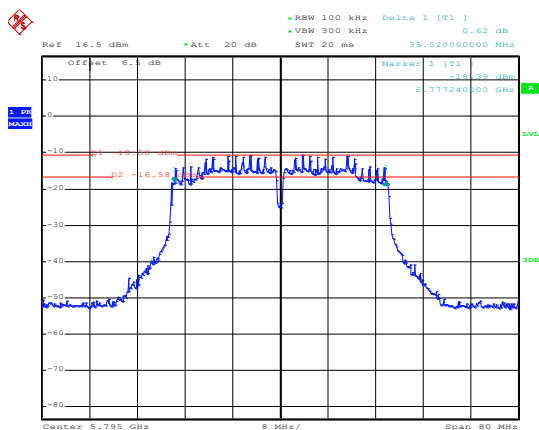
802.11ac(HT80)



Date: 13.DEC.2018 13:45:53

Lowest channel

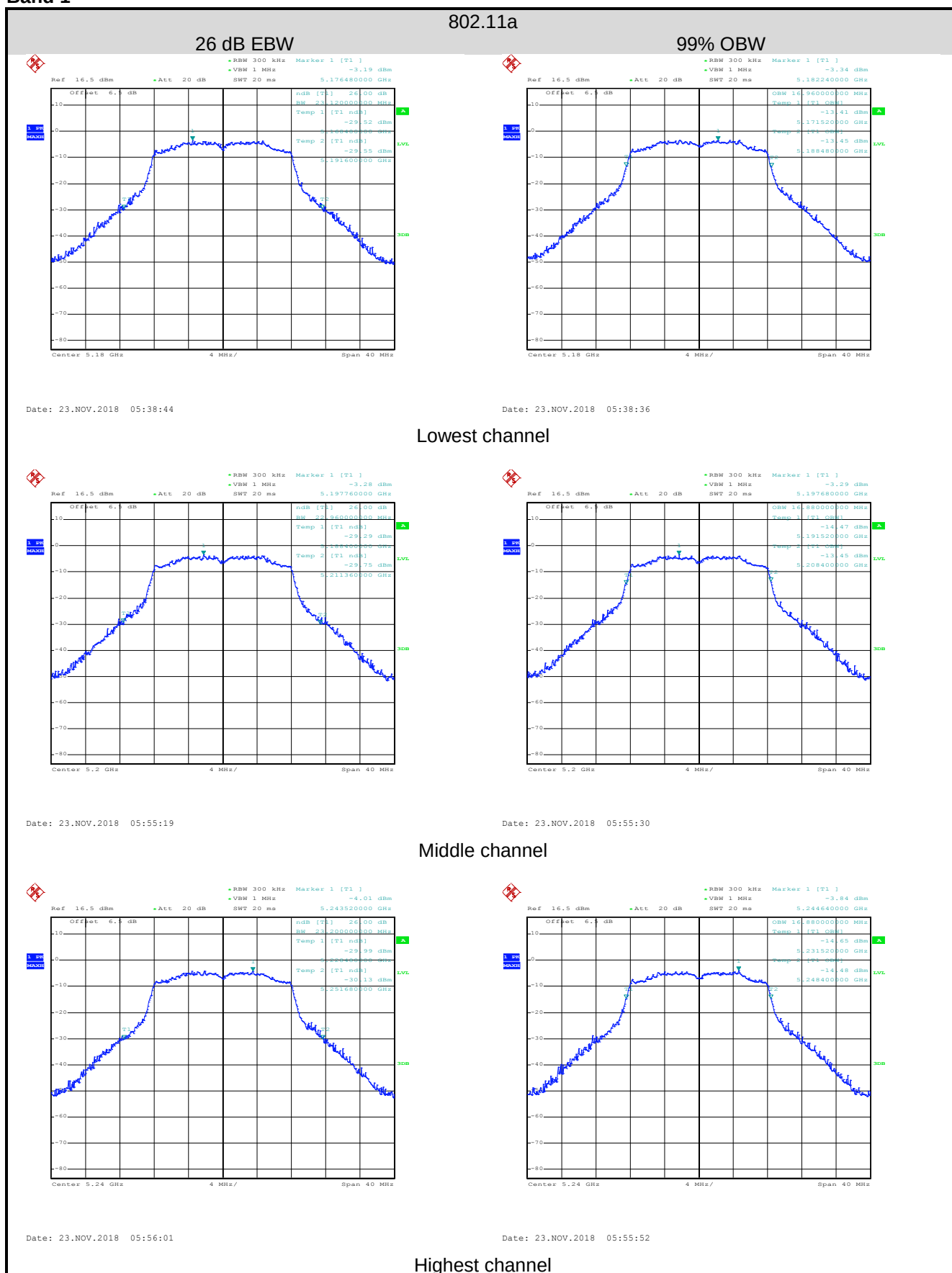
Middle channel



Date: 23.NOV.2018 09:08:43

Highest channel

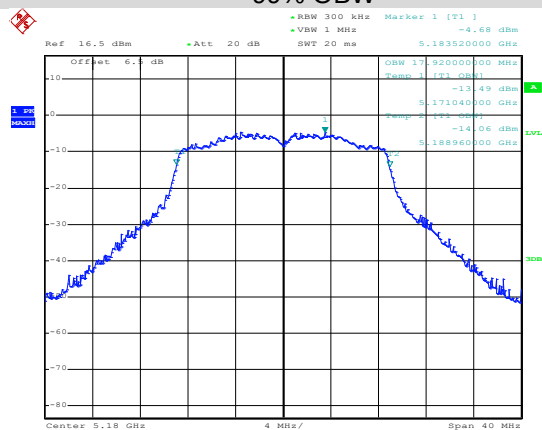
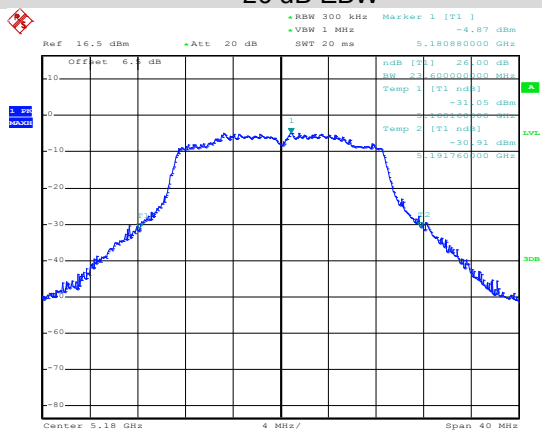
MAIN ANT:
Band 1



802.11n(HT20)

26 dB EBW

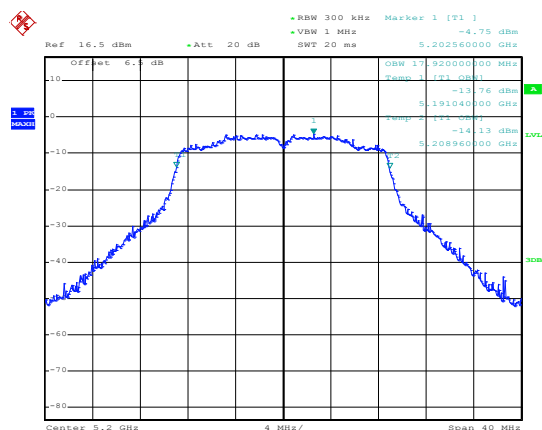
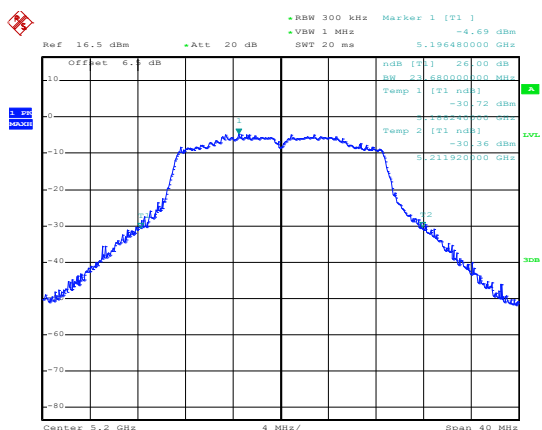
99% OBW



Date: 23.NOV.2018 05:57:21

Date: 23.NOV.2018 05:57:30

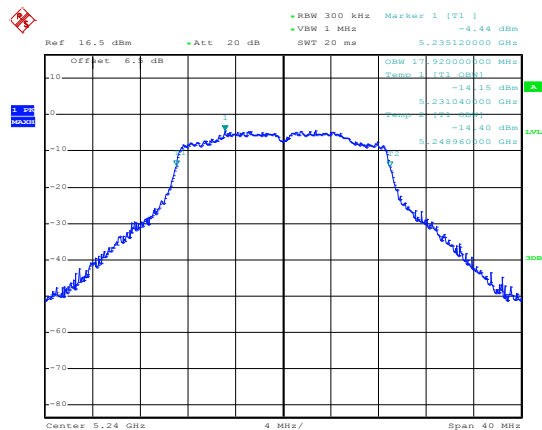
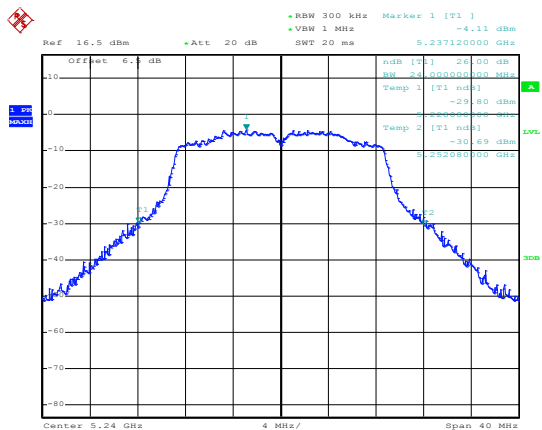
Lowest channel



Date: 23.NOV.2018 05:57:04

Date: 23.NOV.2018 05:56:52

Middle channel



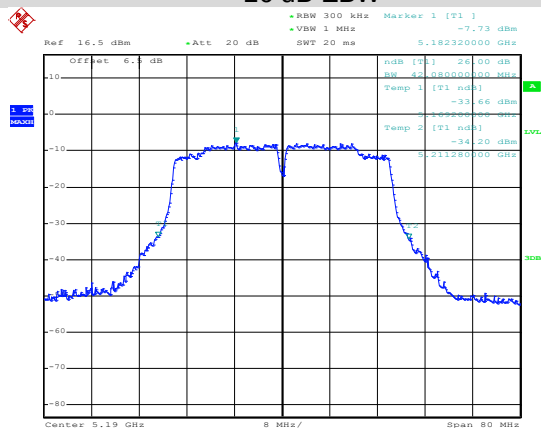
Date: 23.NOV.2018 05:56:24

Date: 23.NOV.2018 05:56:34

Highest channel

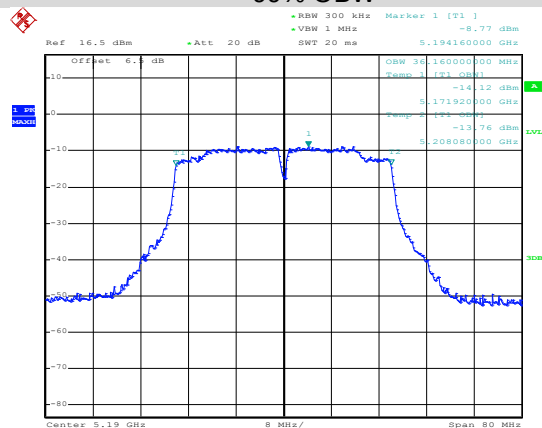
802.11n(HT40)

26 dB EBW



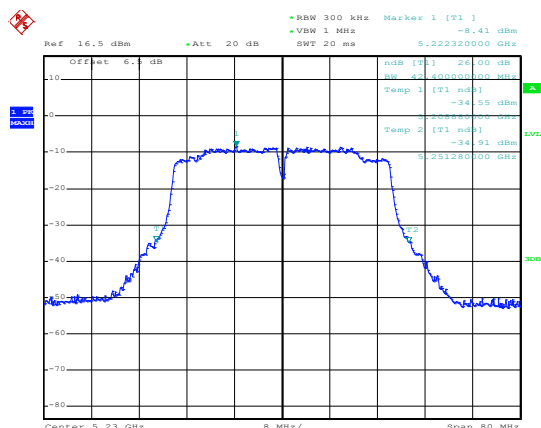
Date: 23.NOV.2018 05:58:13

99% OBW

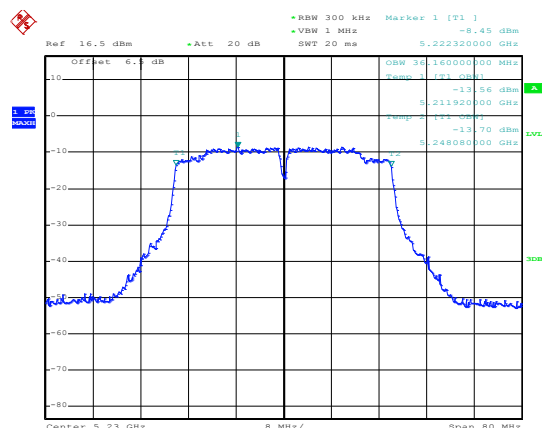


Date: 23.NOV.2018 05:58:02

Lowest channel

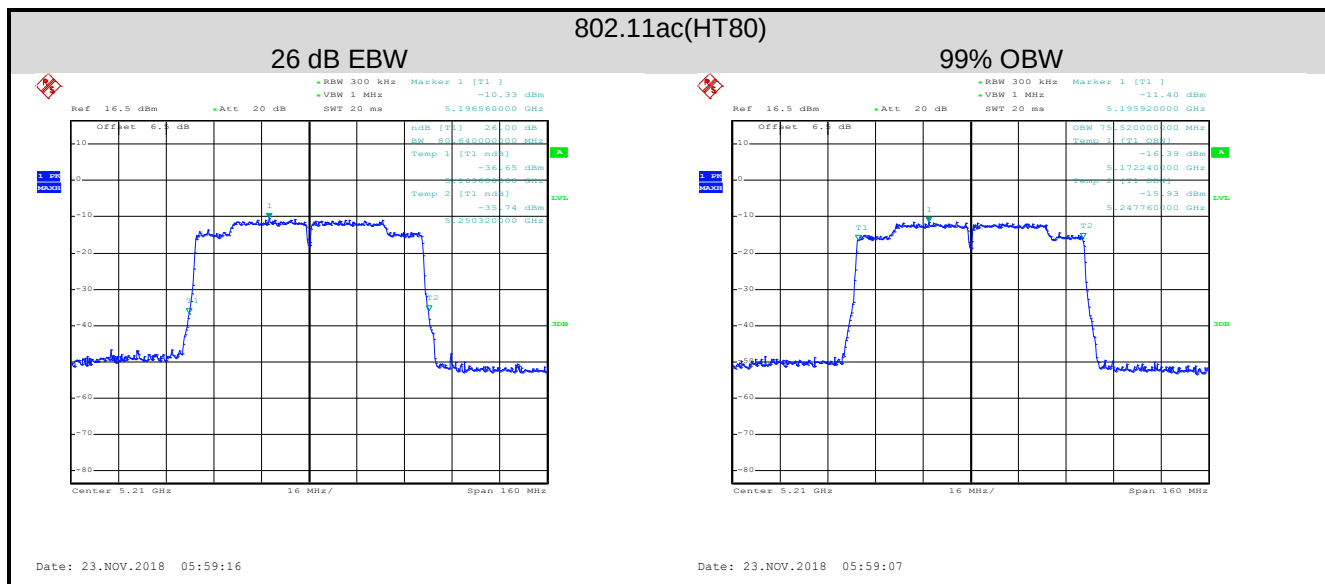


Date: 23.NOV.2018 05:58:30

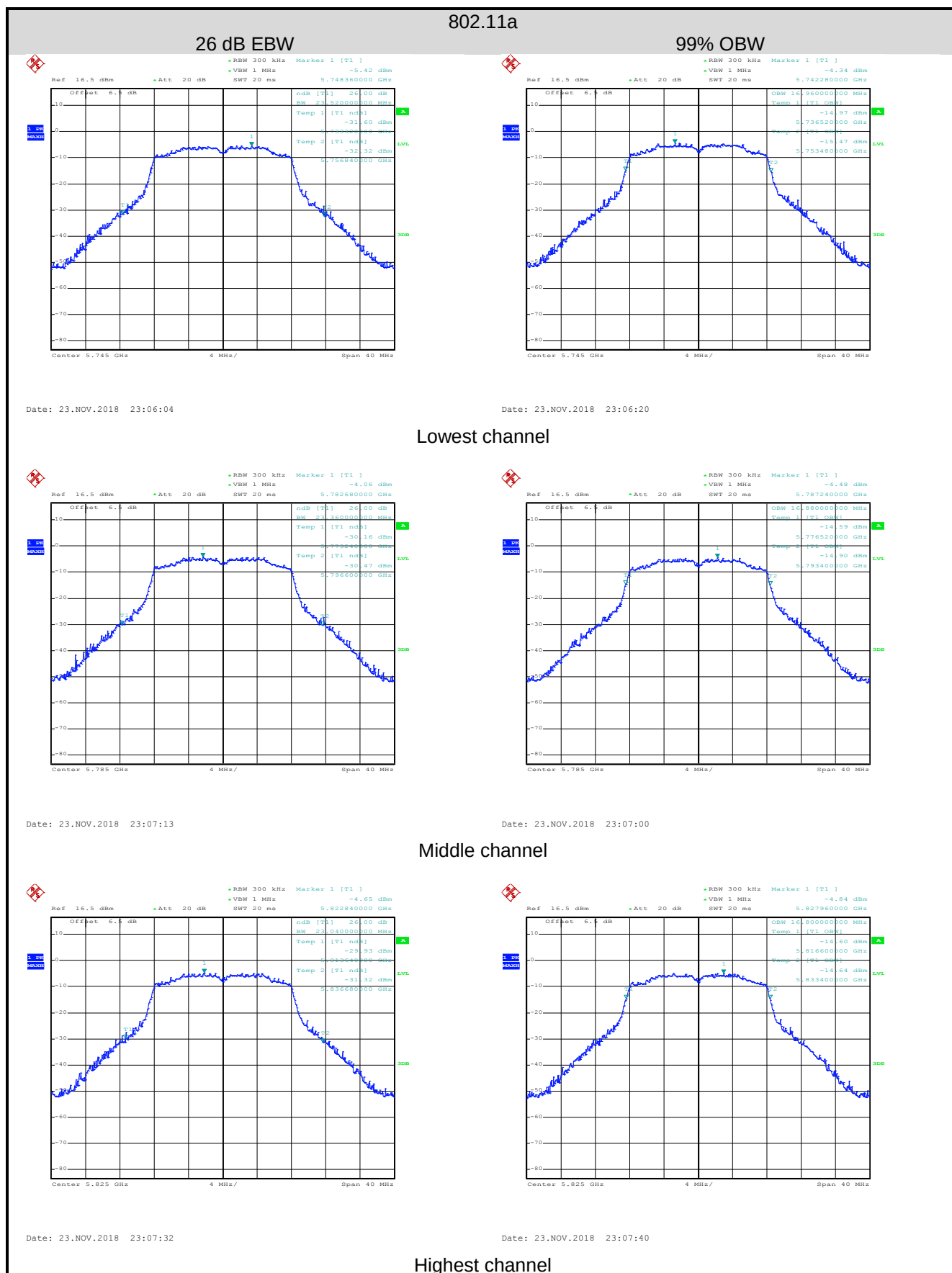


Date: 23.NOV.2018 05:58:38

Highest channel

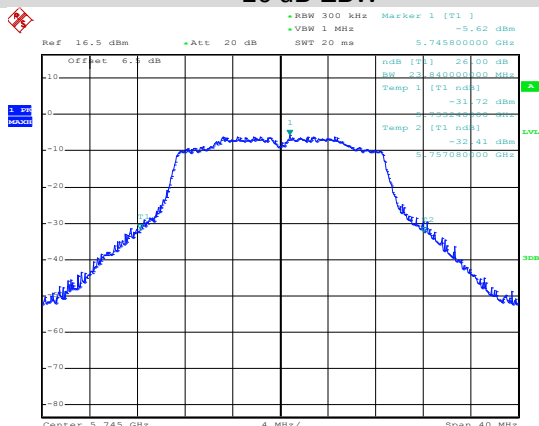


Band 4:



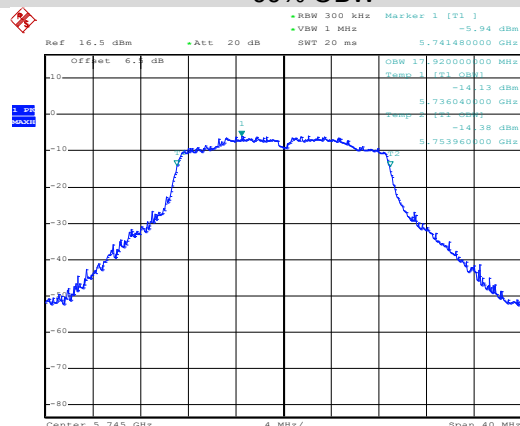
802.11n(HT20)

26 dB EBW



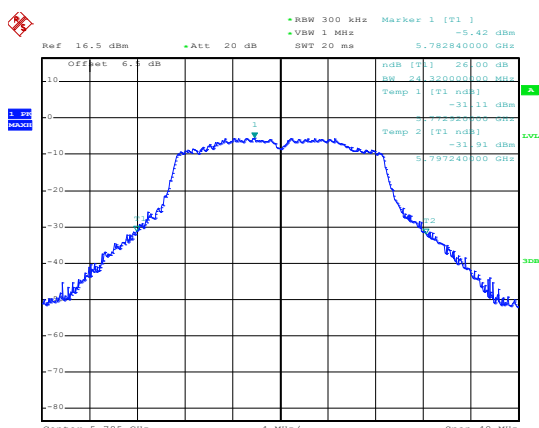
Date: 23.NOV.2018 23:05:39

99% OBW

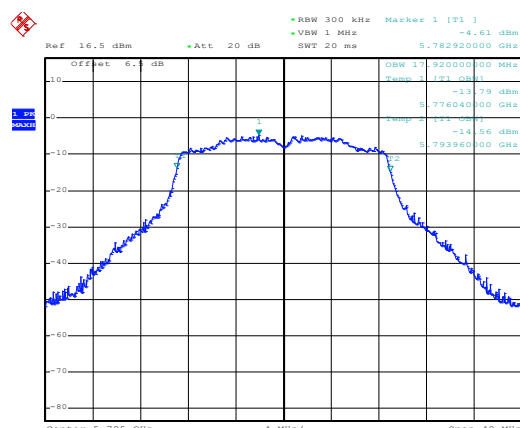


Date: 23.NOV.2018 23:05:29

Lowest channel

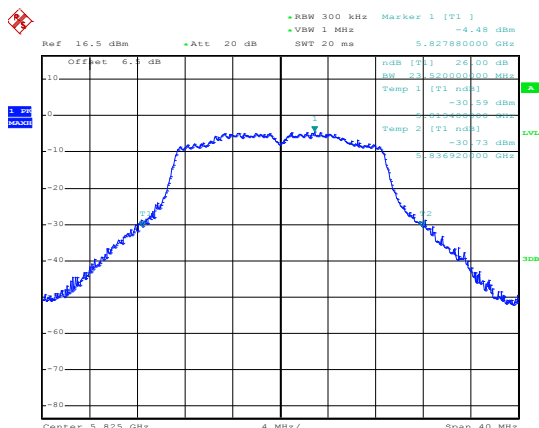


Date: 23.NOV.2018 23:05:00

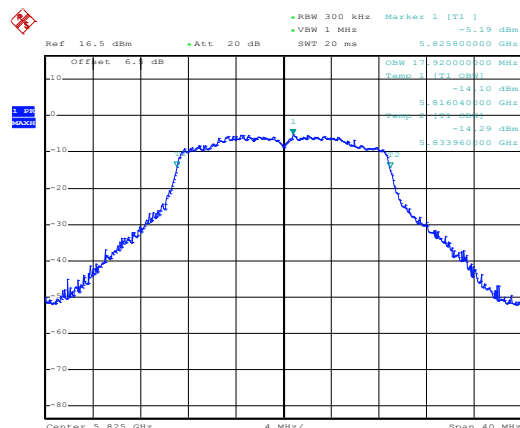


Date: 23.NOV.2018 23:05:12

Middle channel

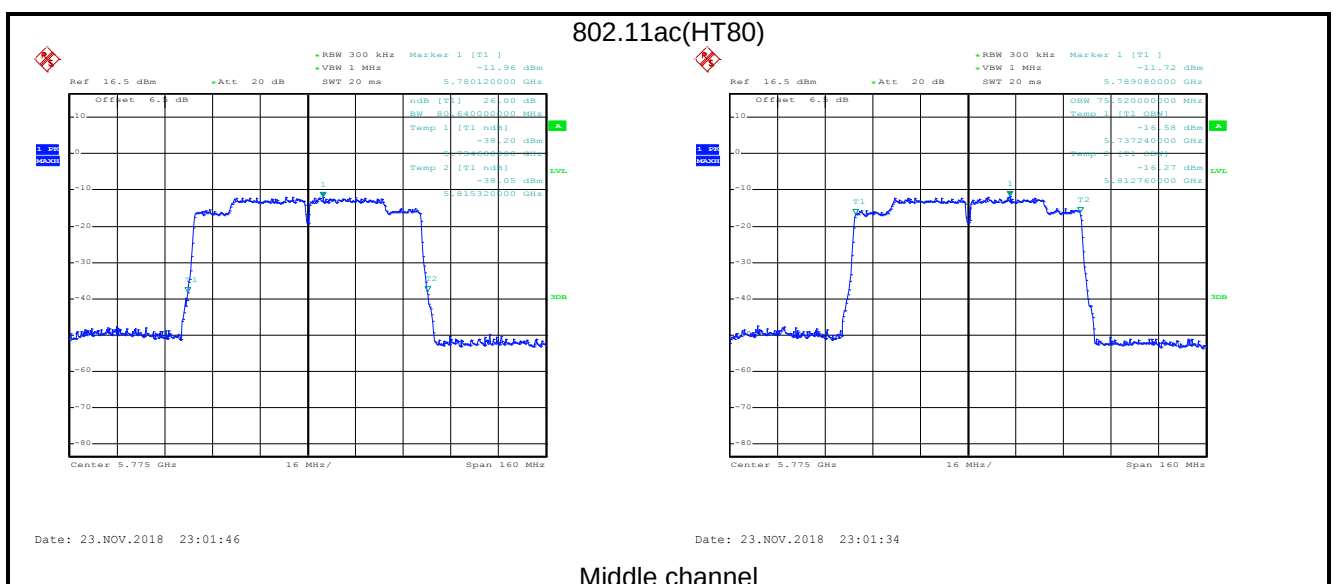
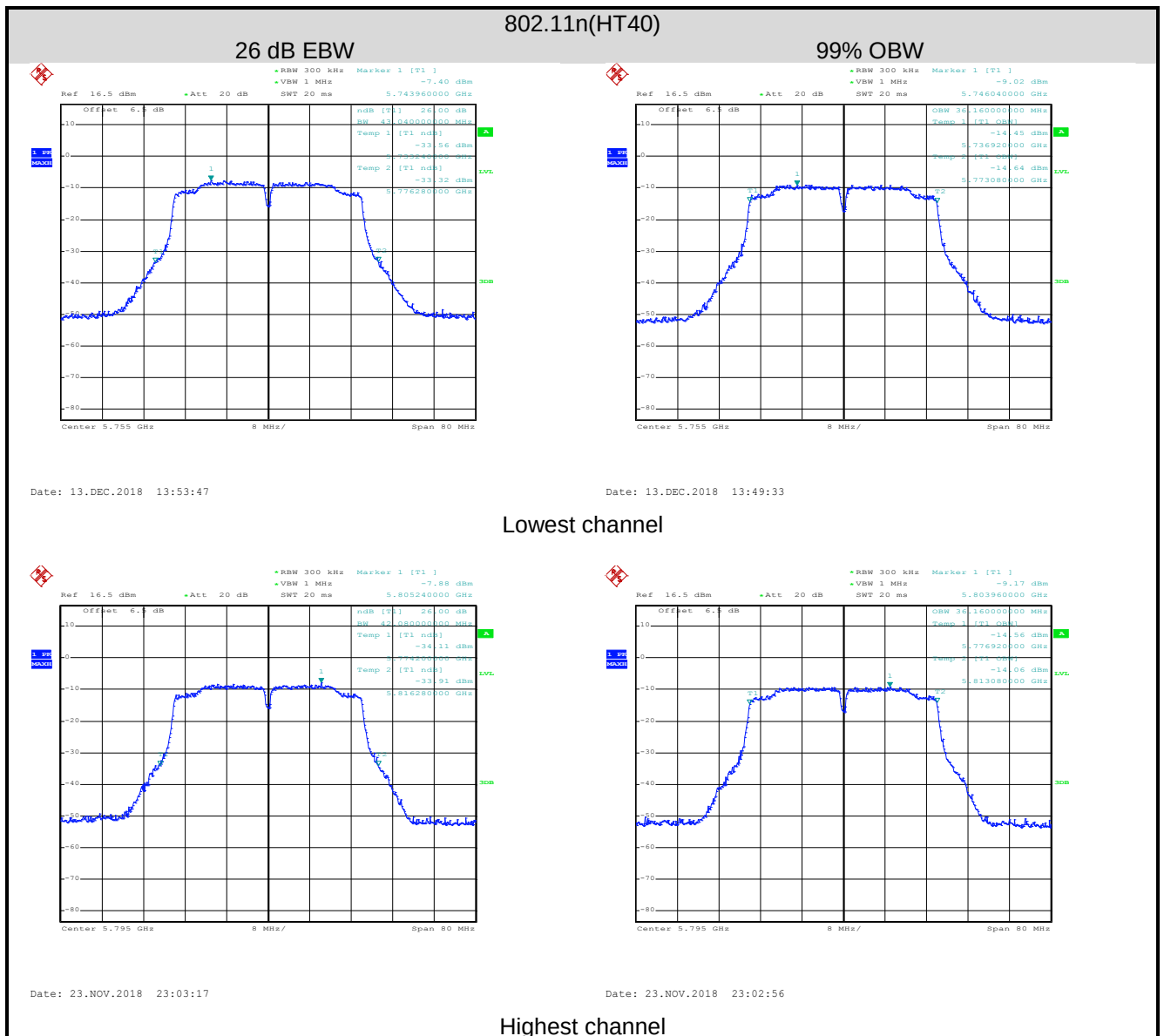


Date: 23.NOV.2018 23:04:35

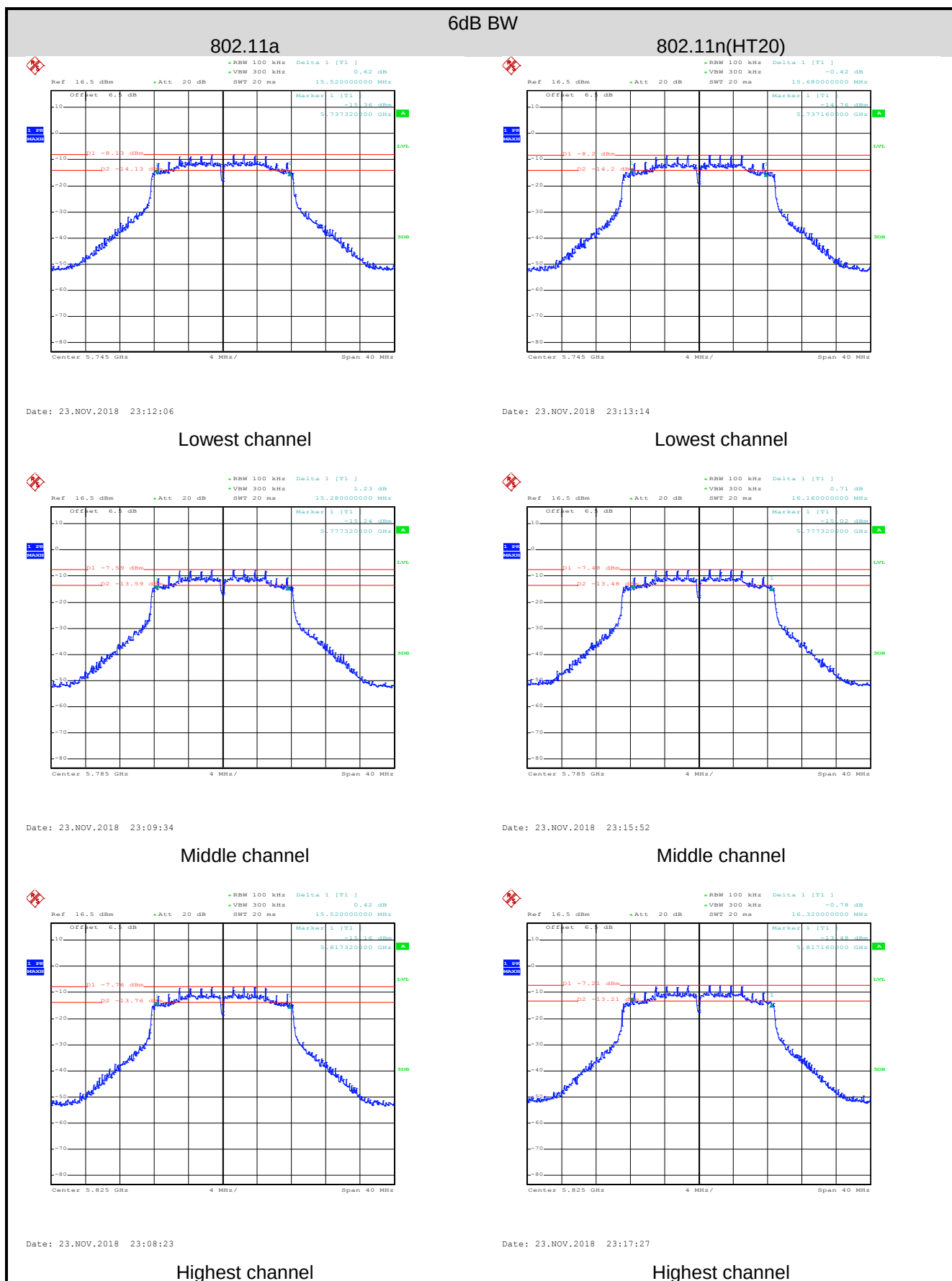


Date: 23.NOV.2018 23:04:22

Highest channel



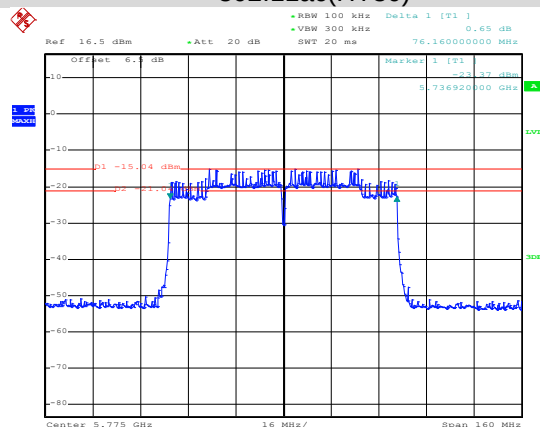
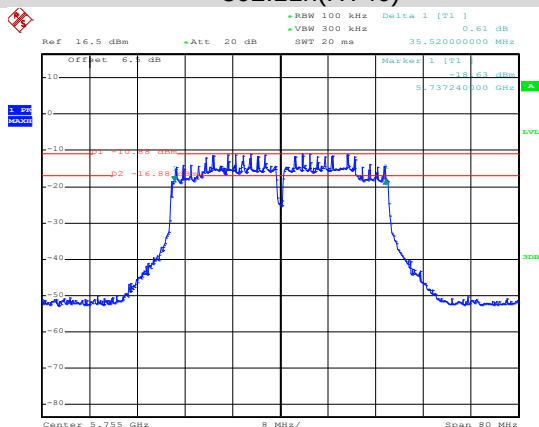
Band 4:



6dB BW

802.11n(HT40)

802.11ac(HT80)

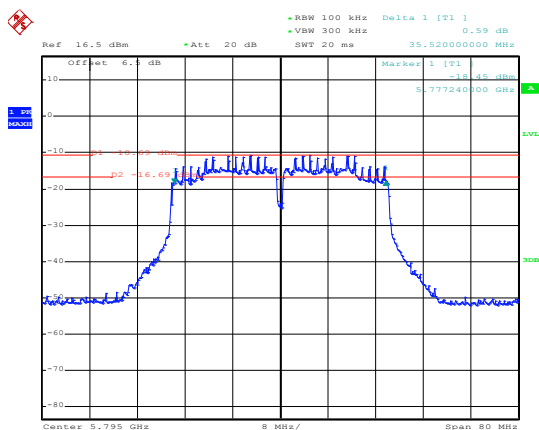


Date: 23.NOV.2018 23:19:02

Date: 23.NOV.2018 23:25:19

Lowest channel

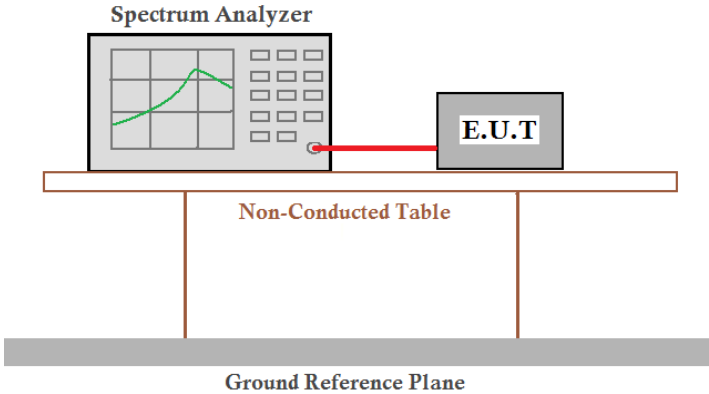
Middle channel



Date: 23.NOV.2018 23:24:16

Highest channel

6.5 Power Spectral Density

Test Requirement:	FCC Part15 E Section 15.407 (a) (1) (iv) & (a)(3)
Test Method:	ANSI C63.10:2013, KDB 789033
Limit:	Band 1: 11 dBm/MHz Band 4: 30 dBm/500kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data:

AUX ANT:

Band 1				
Mode	Test CH	PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	-6.11	11.00	Pass
	Middle	-6.01		
	Highest	-6.67		
802.11n(HT20)	Lowest	-7.20	11.00	Pass
	Middle	-6.50		
	Highest	-6.92		
802.11n(HT40)	Lowest	-11.25	11.00	Pass
	Highest	-11.07		
802.11ac(HT80)	Middle	-13.74	11.00	Pass

Band 4				
Mode	Test CH	PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	-4.05	11.00	Pass
	Middle	-3.60		
	Highest	-3.92		
802.11n(HT20)	Lowest	-2.71	11.00	Pass
	Middle	-3.77		
	Highest	-5.07		
802.11n(HT40)	Lowest	-8.58	11.00	Pass
	Highest	-7.67		
802.11ac(HT80)	Middle	-10.52	11.00	Pass

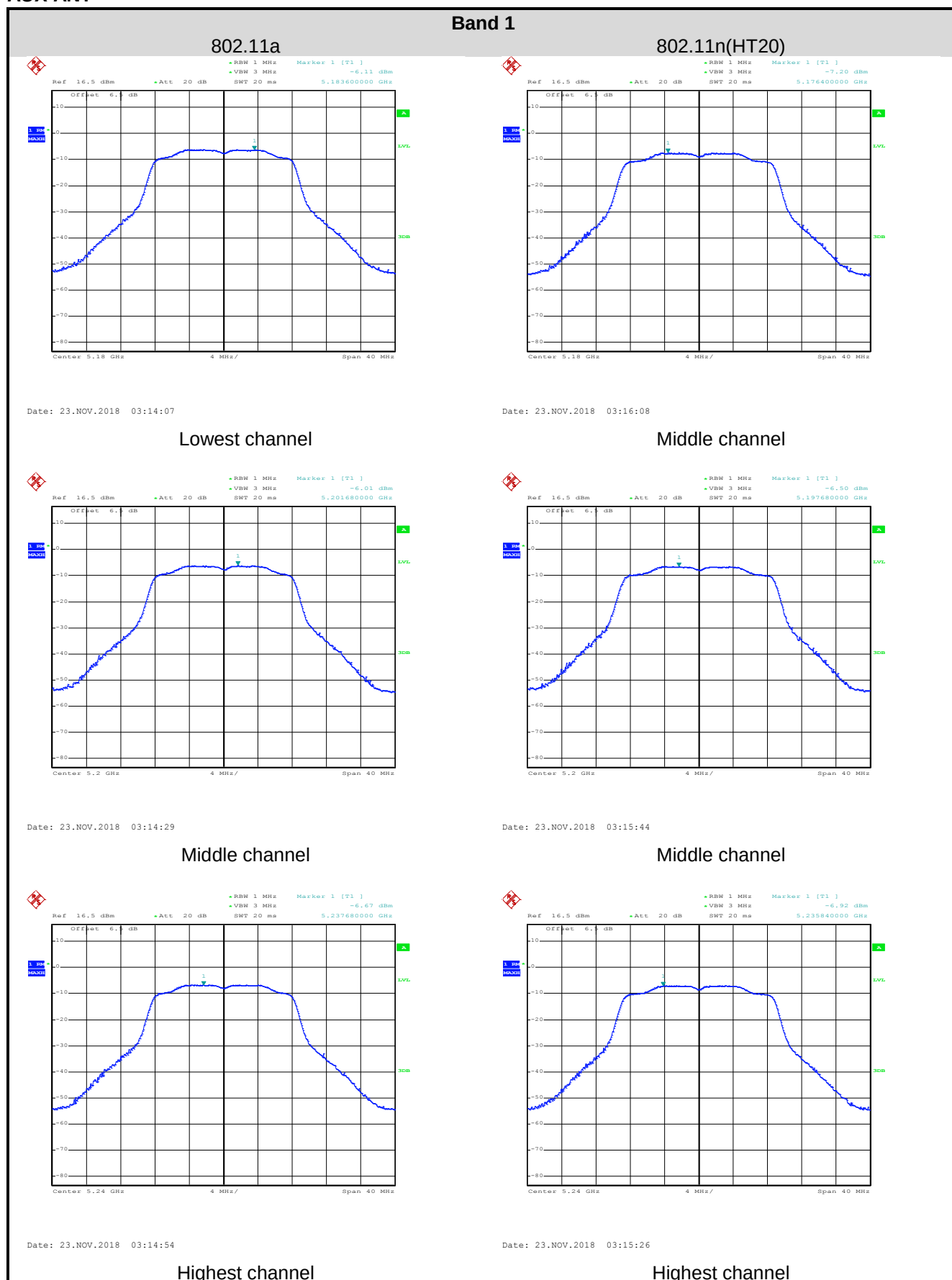
MAIN ANT:

Band 1				
Mode	Test CH	PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	-6.63	11.00	Pass
	Middle	-6.74		
	Highest	-6.86		
802.11n(HT20)	Lowest	-6.91	11.00	Pass
	Middle	-6.90		
	Highest	-6.58		
802.11n(HT40)	Lowest	-10.90	11.00	Pass
	Highest	-10.50		
802.11ac(HT80)	Middle	-12.52	11.00	Pass

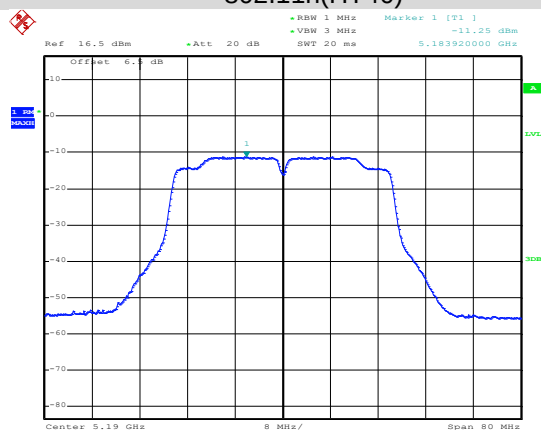
Band 4				
Mode	Test CH	PSD (dBm)	Limit (dBm)	Result
802.11a	Lowest	-1.96	11.00	Pass
	Middle	-4.04		
	Highest	-3.87		
802.11n20	Lowest	-3.96	11.00	Pass
	Middle	-3.96		
	Highest	-4.25		
802.11n40	Lowest	-8.50	11.00	Pass
	Highest	-8.01		
802.11ac80	Middle	-11.25	11.00	Pass

Test plot as follows:

AUX ANT



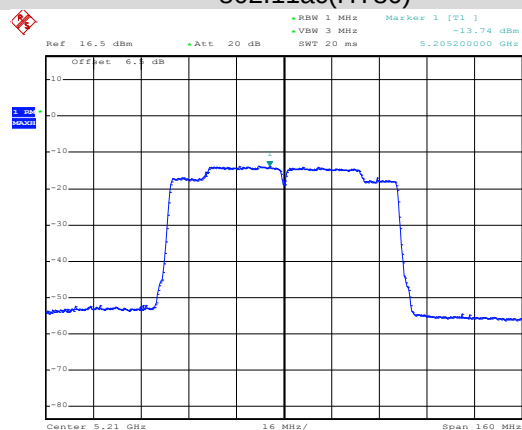
802.11n(HT40)



Date: 23.NOV.2018 03:16:46

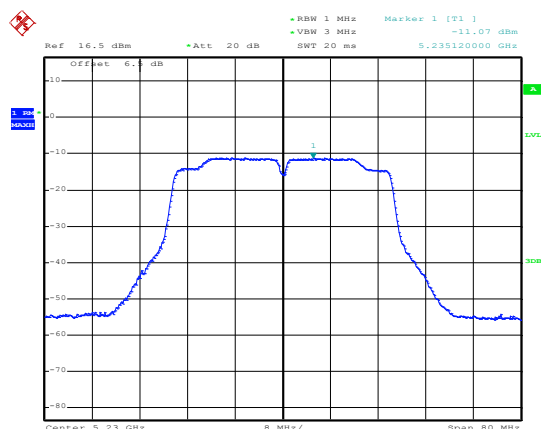
Lowest channel

802.11ac(HT80)



Date: 23.NOV.2018 03:17:45

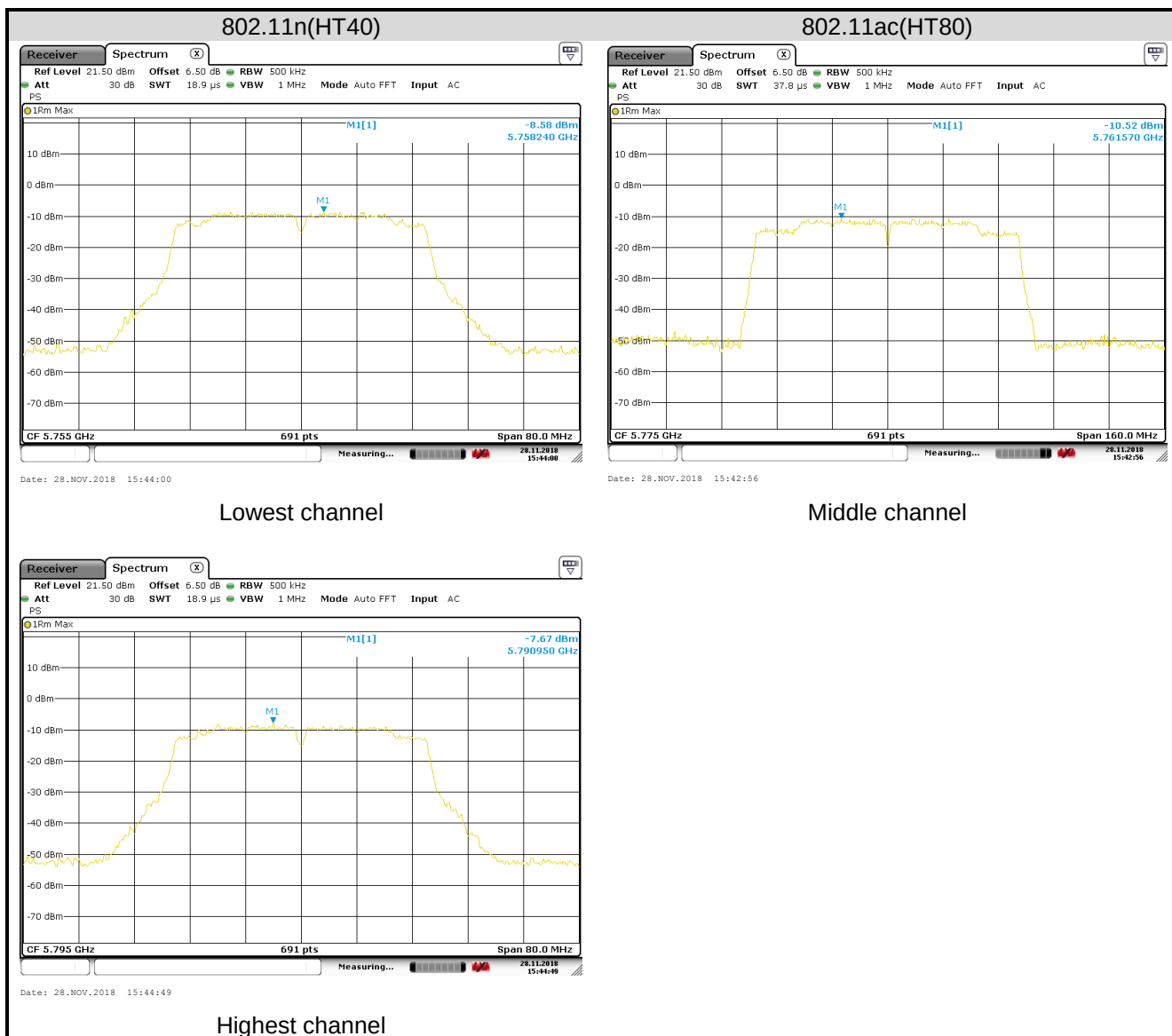
Middle channel



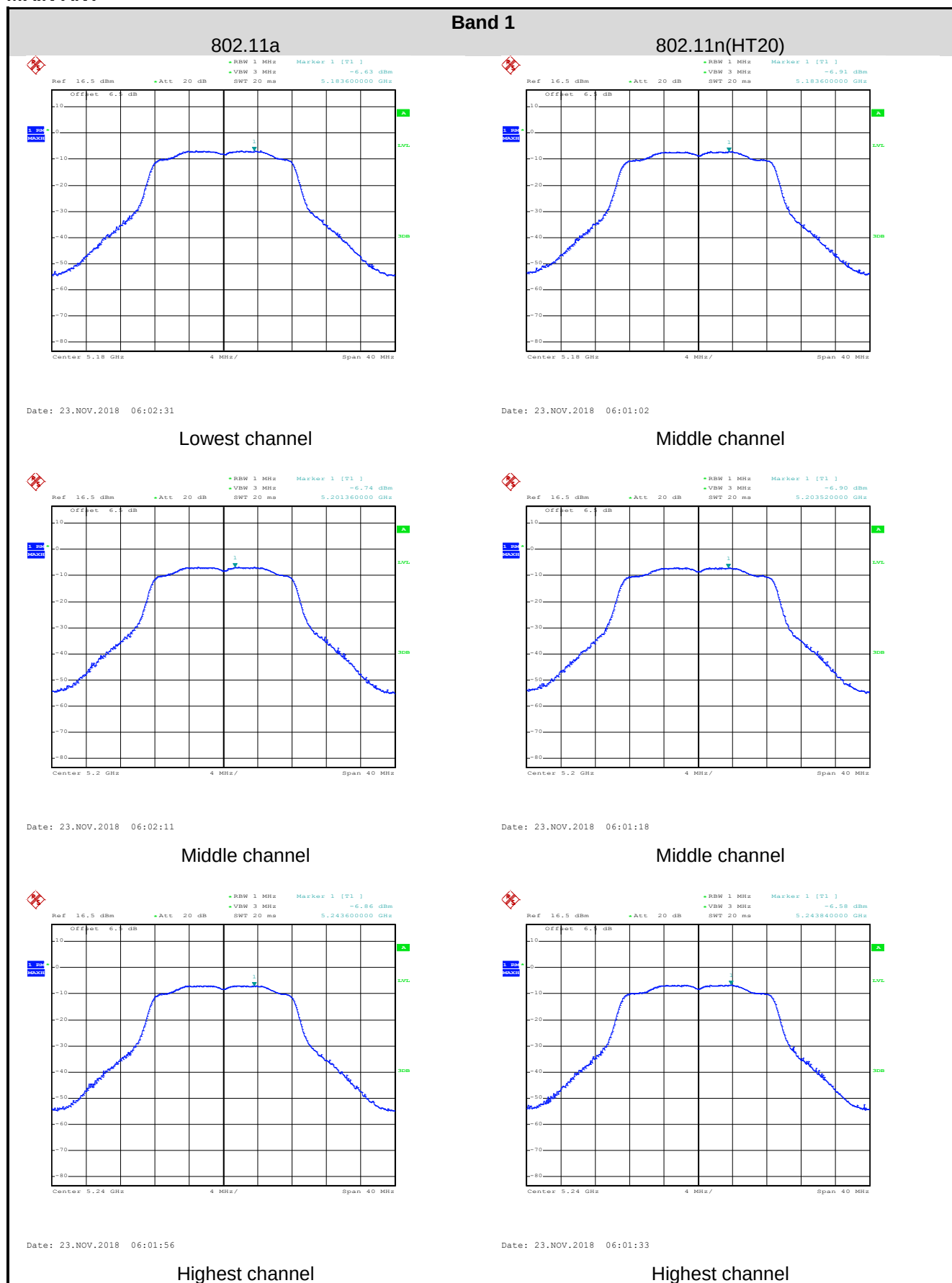
Date: 23.NOV.2018 03:17:06

Highest channel

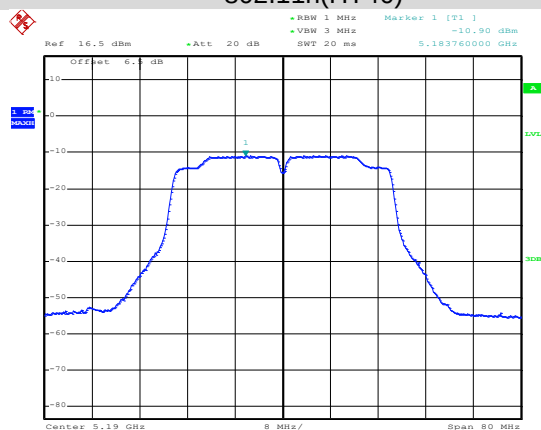




MAIN ANT



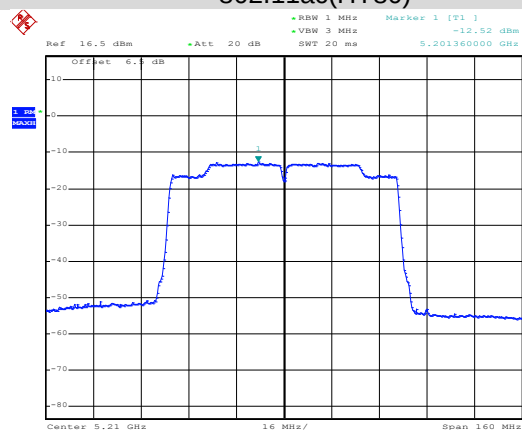
802.11n(HT40)



Date: 23.NOV.2018 06:00:20

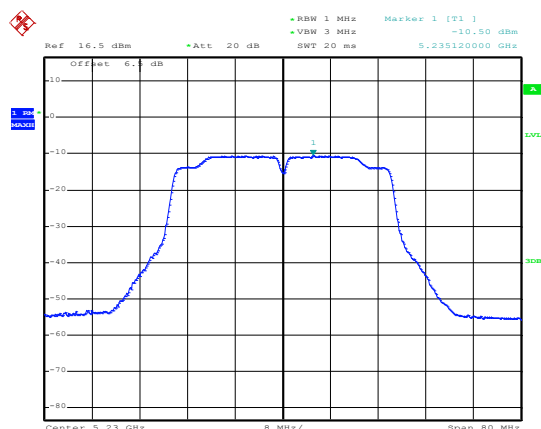
Lowest channel

802.11ac(HT80)



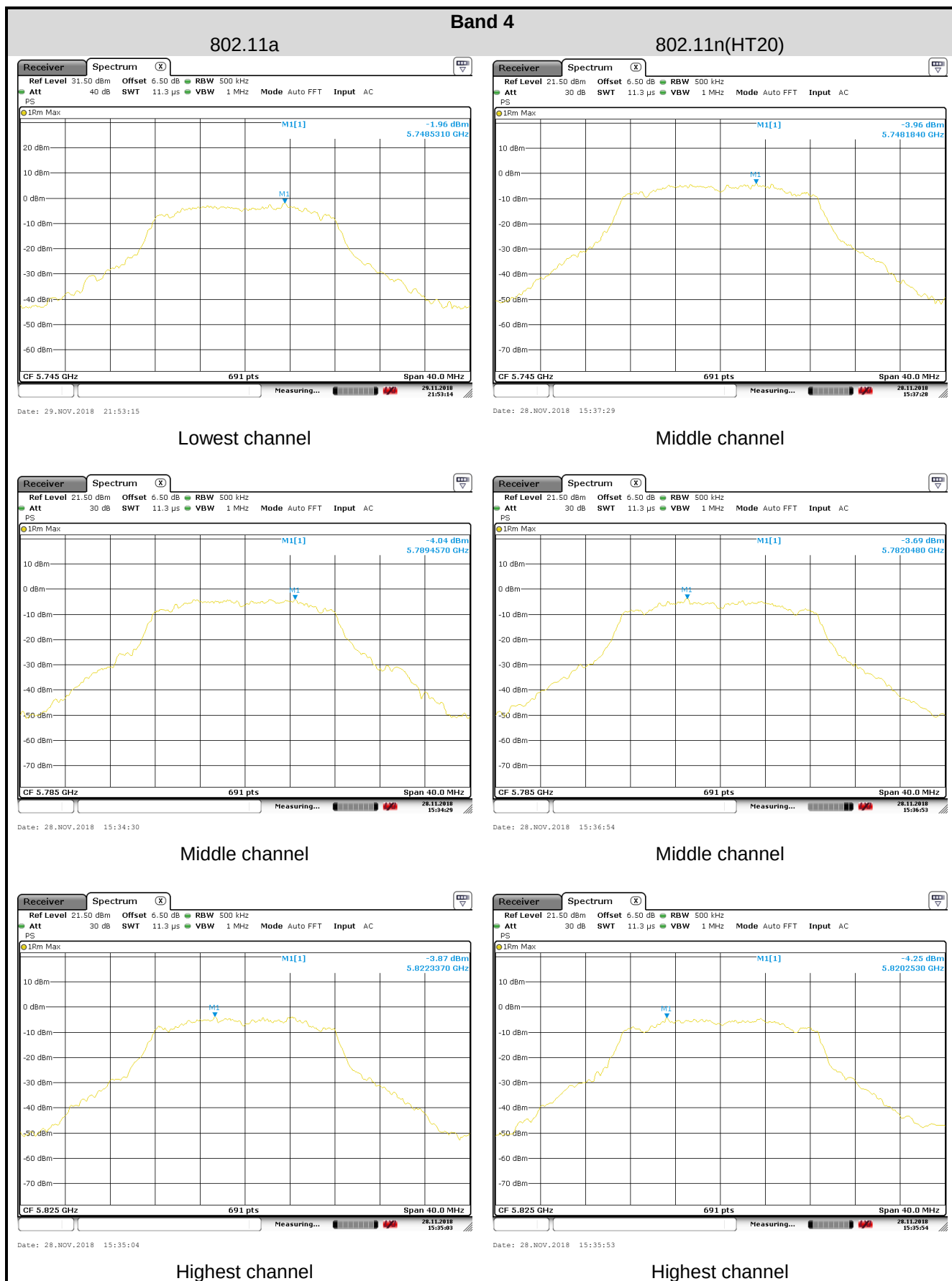
Date: 23.NOV.2018 05:59:48

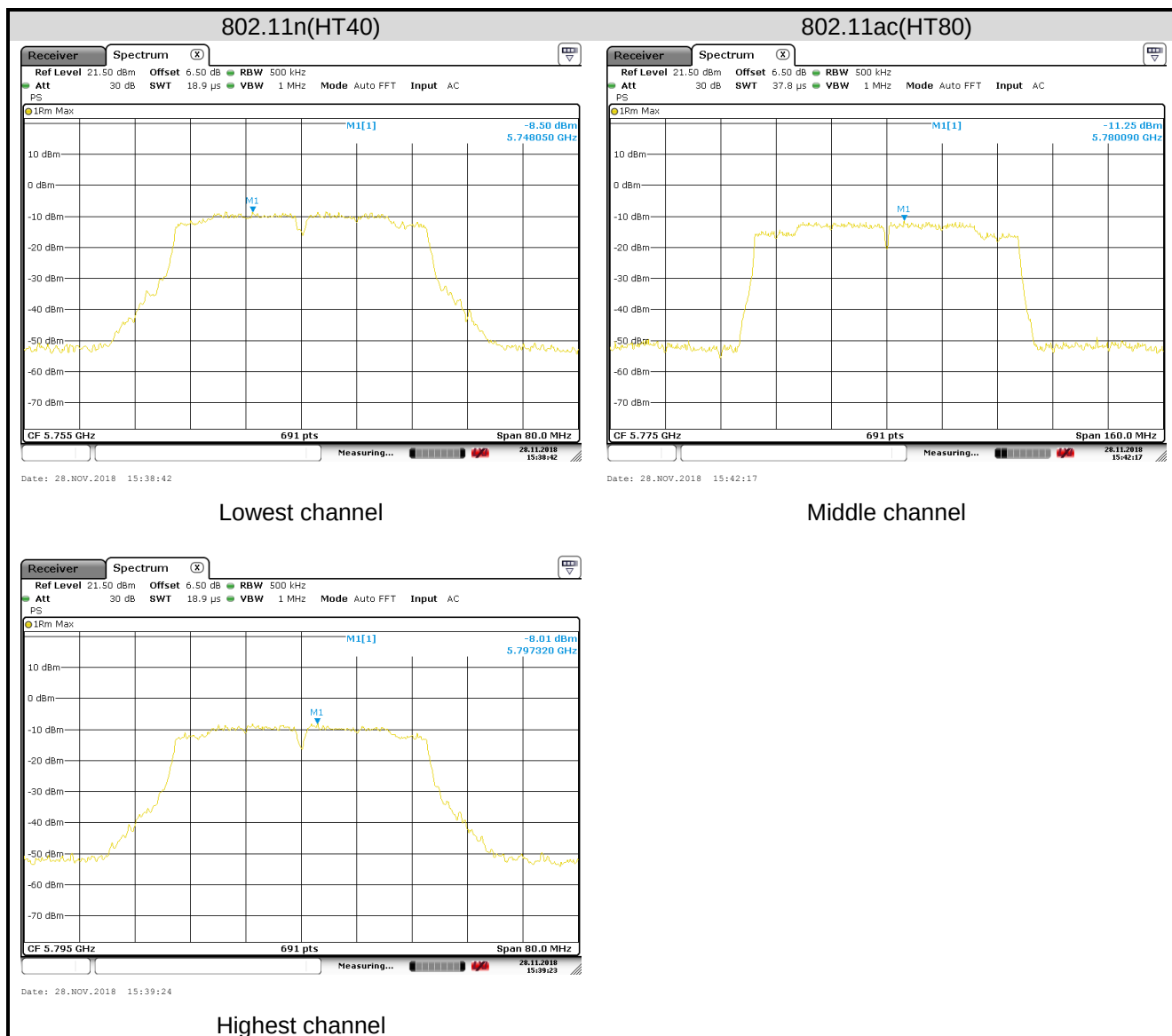
Middle channel



Date: 23.NOV.2018 06:00:38

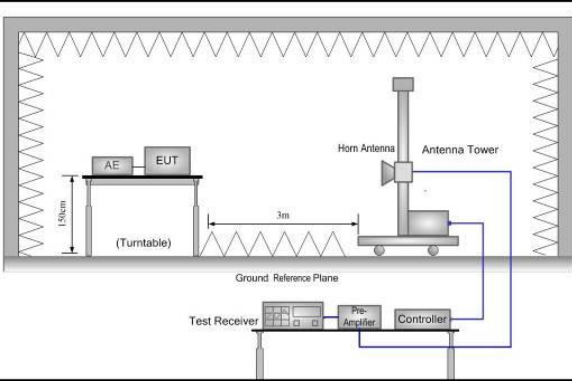
Highest channel





6.6 Band Edge

Test Requirement:	FCC Part 15 E Section 15.407 (b)			
Test Method:	ANSI C63.10:2013 , KDB 789033			
Receiver setup:	Detector	RBW	VBW	Remark
	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	RMS	1MHz	3MHz	Average Value
Limit:	Band		Limit (dBuV/m @3m)	Remark
	Band 1		68.20	Peak Value
			54.00	Average Value
	Band 4		78.20	Peak Value
			54.00	Average Value
	Band 4 limit: For transmitters operating in the 5.725-5.85 GHz band: 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.			
	Remark: 1. Band 1 limit: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm. 2. Band 4 limit: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBuV/m, for EIPR[dBm]=-27dBm. E[dBμV/m] = EIRP[dBm] + 95.2=105.2 dBuV/m, for EIPR[dBm]=10dBm. E[dBμV/m] = EIRP[dBm] + 95.2=110.8 dBuV/m, for EIPR[dBm]=15.6dBm. E[dBμV/m] = EIRP[dBm] + 95.2=122.2 dBuV/m, for EIPR[dBm]=27dBm.			
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.			

Test setup:		
Test Instruments:	Refer to section 5.9 for details	
Test mode:	Refer to section 5.3 for details	
Test results:	Passed	

Measurement Data (worst case):**AUX ANT:****Band 1:**

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	43.18	36.23	7.05	41.93	44.53	68.20	-23.67	Horizontal
5150.00	42.85	36.23	7.05	41.93	44.20	68.20	-24.00	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.42	36.23	7.05	41.93	33.77	54.00	-20.23	Horizontal
5150.00	33.18	36.23	7.05	41.93	34.53	54.00	-19.47	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.57	35.37	7.11	41.89	43.16	68.20	-25.04	Horizontal
5250.00	41.69	35.37	7.11	41.89	42.28	68.20	-25.92	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.47	35.37	7.11	41.89	32.06	54.00	-21.94	Horizontal
5250.00	31.93	35.37	7.11	41.89	32.52	54.00	-21.48	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.17	36.23	7.05	41.93	43.52	68.20	-24.68	Horizontal
5150.00	42.89	36.23	7.05	41.93	44.24	68.20	-23.96	Vertical
Detector: Average								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.14	36.23	7.05	41.93	33.49	54.00	-20.51	Horizontal
5150.00	32.86	36.23	7.05	41.93	34.21	54.00	-19.79	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.73	35.37	7.11	41.89	43.32	68.20	-24.88	Horizontal
5250.00	42.19	35.37	7.11	41.89	42.78	68.20	-25.42	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.82	35.37	7.11	41.89	32.41	54.00	-21.59	Horizontal
5250.00	31.47	35.37	7.11	41.89	32.06	54.00	-21.94	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.16	7.05	41.93	41.93	49.21	68.20	-18.99	Horizontal
5150.00	42.67	7.05	41.93	41.93	49.72	68.20	-18.48	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.16	7.05	41.93	41.93	39.21	54.00	-14.79	Horizontal
5150.00	32.83	7.05	41.93	41.93	39.88	54.00	-14.12	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.89	35.37	35.37	7.11	41.89	68.20	-26.31	Horizontal
5250.00	42.71	35.37	35.37	7.11	41.89	68.20	-26.31	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.19	35.37	7.11	41.89	31.78	54.00	-22.22	Horizontal
5250.00	32.52	35.37	7.11	41.89	33.11	54.00	-20.89	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.73	36.23	7.05	41.93	43.08	68.20	-25.12	Horizontal
5150.00	42.18	36.23	7.05	41.93	43.53	68.20	-24.67	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.96	36.23	7.05	41.93	34.31	54.00	-19.69	Horizontal
5150.00	31.43	36.23	7.05	41.93	32.78	54.00	-21.22	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.55	35.37	7.11	41.89	43.14	68.20	-25.06	Horizontal
5250.00	42.71	35.37	7.11	41.89	43.30	68.20	-24.90	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	32.16	35.37	7.11	41.89	32.75	54.00	-21.25	Horizontal
5250.00	31.47	35.37	7.11	41.89	32.06	54.00	-21.94	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.53	32.68	7.45	41.85	50.81	68.20	-17.39	Horizontal
5700.00	57.41	32.77	7.60	41.90	55.88	105.20	-49.32	Horizontal
5720.00	80.16	32.81	7.64	41.92	78.69	110.80	-32.11	Horizontal
5725.00	89.63	32.81	7.69	41.94	88.19	122.20	-34.01	Horizontal
5650.00	56.73	32.68	7.45	41.85	55.01	68.20	-13.19	Vertical
5700.00	57.22	32.77	7.60	41.90	55.69	105.20	-49.51	Vertical
5720.00	78.83	32.81	7.64	41.92	77.36	110.80	-33.44	Vertical
5725.00	85.55	32.81	7.69	41.94	84.11	122.20	-38.09	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	68.13	33.04	7.45	41.85	66.77	122.20	-55.43	Horizontal
5855.00	67.59	33.05	7.60	41.90	66.34	110.80	-44.46	Horizontal
5875.00	61.49	33.08	7.64	41.92	60.29	105.20	-44.91	Horizontal
5925.00	55.73	33.17	7.69	41.94	54.65	68.20	-13.55	Horizontal
5850.00	65.18	33.04	7.45	41.85	63.82	122.20	-58.38	Vertical
5855.00	61.55	33.05	7.60	41.90	60.30	110.80	-50.50	Vertical
5875.00	52.74	33.08	7.64	41.92	51.54	105.20	-53.66	Vertical
5925.00	52.53	33.17	7.69	41.94	51.45	68.20	-16.75	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.63	32.68	7.45	41.85	50.91	68.20	-17.29	Horizontal
5700.00	56.73	32.77	7.60	41.90	55.20	105.20	-50.00	Horizontal
5720.00	82.79	32.81	7.64	41.92	81.32	110.80	-29.48	Horizontal
5725.00	89.34	32.81	7.69	41.94	87.90	122.20	-34.30	Horizontal
5650.00	56.83	32.68	7.45	41.85	55.11	68.20	-13.09	Vertical
5700.00	57.19	32.77	7.60	41.90	55.66	105.20	-49.54	Vertical
5720.00	78.53	32.81	7.64	41.92	77.06	110.80	-33.74	Vertical
5725.00	86.41	32.81	7.69	41.94	84.97	122.20	-37.23	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	88.62	33.04	7.45	41.85	87.26	122.20	-34.94	Horizontal
5855.00	82.79	33.05	7.60	41.90	81.54	110.80	-29.26	Horizontal
5875.00	70.41	33.08	7.64	41.92	69.21	105.20	-35.99	Horizontal
5925.00	56.29	33.17	7.69	41.94	55.21	68.20	-12.99	Horizontal
5850.00	84.64	33.04	7.45	41.85	83.28	122.20	-38.92	Vertical
5855.00	76.52	33.05	7.60	41.90	75.27	110.80	-35.53	Vertical
5875.00	65.82	33.08	7.64	41.92	64.62	105.20	-40.58	Vertical
5925.00	53.14	33.17	7.69	41.94	52.06	68.20	-16.14	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	53.92	32.68	7.45	41.85	52.20	68.20	-16.00	Horizontal
5700.00	68.25	32.77	7.60	41.90	66.72	105.20	-38.48	Horizontal
5720.00	83.46	32.81	7.64	41.92	81.99	110.80	-28.81	Horizontal
5725.00	85.73	32.81	7.69	41.94	84.29	122.20	-37.91	Horizontal
5650.00	55.15	32.68	7.45	41.85	53.43	68.20	-14.77	Vertical
5700.00	70.11	32.77	7.60	41.90	68.58	105.20	-36.62	Vertical
5720.00	85.13	32.81	7.64	41.92	83.66	110.80	-27.14	Vertical
5725.00	86.63	32.81	7.69	41.94	85.19	122.20	-37.01	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	88.51	33.04	7.45	41.85	87.15	122.20	-35.05	Horizontal
5855.00	82.56	33.05	7.60	41.90	81.31	110.80	-29.49	Horizontal
5875.00	70.34	33.08	7.64	41.92	69.14	105.20	-36.06	Horizontal
5925.00	55.63	33.17	7.69	41.94	54.55	68.20	-13.65	Horizontal
5850.00	85.46	33.04	7.45	41.85	84.10	122.20	-38.10	Vertical
5855.00	80.74	33.05	7.60	41.90	79.49	110.80	-31.31	Vertical
5875.00	65.90	33.08	7.64	41.92	64.70	105.20	-40.50	Vertical
5925.00	55.73	33.17	7.69	41.94	54.65	68.20	-13.55	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	63.96	32.68	7.45	41.85	62.24	68.20	-5.96	Horizontal
5700.00	68.73	32.77	7.60	41.90	67.20	105.20	-38.00	Horizontal
5720.00	85.22	32.81	7.64	41.92	83.75	110.80	-27.05	Horizontal
5725.00	85.46	32.81	7.69	41.94	84.02	122.20	-38.18	Horizontal
5650.00	60.34	32.68	7.45	41.85	58.62	68.20	-9.58	Vertical
5700.00	68.24	32.77	7.60	41.90	66.71	105.20	-38.49	Vertical
5720.00	83.52	32.81	7.64	41.92	82.05	110.80	-28.75	Vertical
5725.00	84.29	32.81	7.69	41.94	82.85	122.20	-39.35	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	82.73	33.04	7.45	41.85	81.37	122.20	-40.83	Horizontal
5855.00	82.46	33.05	7.60	41.90	81.21	110.80	-29.59	Horizontal
5875.00	80.61	33.08	7.64	41.92	79.41	105.20	-25.79	Horizontal
5925.00	62.79	33.17	7.69	41.94	61.71	68.20	-6.49	Horizontal
5850.00	78.31	33.04	7.45	41.85	76.95	122.20	-45.25	Vertical
5855.00	76.55	33.05	7.60	41.90	75.30	110.80	-35.50	Vertical
5875.00	72.14	33.08	7.64	41.92	70.94	105.20	-34.26	Vertical
5925.00	57.38	33.17	7.69	41.94	56.30	68.20	-11.90	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

MAIN ANT:

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	43.85	36.23	7.05	41.93	45.20	68.20	-23.00	Horizontal
5150.00	43.18	36.23	7.05	41.93	44.53	68.20	-23.67	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.96	36.23	7.05	41.93	34.31	54.00	-19.69	Horizontal
5150.00	33.72	36.23	7.05	41.93	35.07	54.00	-18.93	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.19	35.37	7.11	41.89	42.78	68.20	-25.42	Horizontal
5250.00	42.72	35.37	7.11	41.89	43.31	68.20	-24.89	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.72	35.37	7.11	41.89	32.31	54.00	-21.69	Horizontal
5250.00	31.67	35.37	7.11	41.89	32.26	54.00	-21.74	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.55	36.23	7.05	41.93	43.90	68.20	-24.30	Horizontal
5150.00	42.73	36.23	7.05	41.93	44.08	68.20	-24.12	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.19	36.23	7.05	41.93	33.54	54.00	-20.46	Horizontal
5150.00	32.78	36.23	7.05	41.93	34.13	54.00	-19.87	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.71	35.37	7.11	41.89	43.30	68.20	-24.90	Horizontal
5250.00	42.56	35.37	7.11	41.89	43.15	68.20	-25.05	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.49	35.37	7.11	41.89	32.08	54.00	-21.92	Horizontal
5250.00	31.52	35.37	7.11	41.89	32.11	54.00	-21.89	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	42.97	7.05	41.93	41.93	50.02	68.20	-18.18	Horizontal
5150.00	42.36	7.05	41.93	41.93	49.41	68.20	-18.79	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	32.85	7.05	41.93	41.93	39.90	54.00	-14.10	Horizontal
5150.00	32.97	7.05	41.93	41.93	40.02	54.00	-13.98	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.83	35.37	35.37	7.11	41.89	68.20	-26.31	Horizontal
5250.00	42.71	35.37	35.37	7.11	41.89	68.20	-26.31	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.57	35.37	7.11	41.89	32.16	54.00	-21.84	Horizontal
5250.00	31.47	35.37	7.11	41.89	32.06	54.00	-21.94	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	41.85	36.23	7.05	41.93	43.20	68.20	-25.00	Horizontal
5150.00	41.69	36.23	7.05	41.93	43.04	68.20	-25.16	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5150.00	31.97	36.23	7.05	41.93	33.32	54.00	-20.68	Horizontal
5150.00	31.58	36.23	7.05	41.93	32.93	54.00	-21.07	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	42.69	35.37	7.11	41.89	43.28	68.20	-24.92	Horizontal
5250.00	42.58	35.37	7.11	41.89	43.17	68.20	-25.03	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5250.00	31.96	35.37	7.11	41.89	32.55	54.00	-21.45	Horizontal
5250.00	31.79	35.37	7.11	41.89	32.38	54.00	-21.62	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.89	32.68	7.45	41.85	51.17	68.20	-17.03	Horizontal
5700.00	57.46	32.77	7.60	41.90	55.93	105.20	-49.27	Horizontal
5720.00	80.61	32.81	7.64	41.92	79.14	110.80	-31.66	Horizontal
5725.00	89.15	32.81	7.69	41.94	87.71	122.20	-34.49	Horizontal
5650.00	56.83	32.68	7.45	41.85	55.11	68.20	-13.09	Vertical
5700.00	57.93	32.77	7.60	41.90	56.40	105.20	-48.80	Vertical
5720.00	78.93	32.81	7.64	41.92	77.46	110.80	-33.34	Vertical
5725.00	85.73	32.81	7.69	41.94	84.29	122.20	-37.91	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	68.93	33.04	7.45	41.85	67.57	122.20	-54.63	Horizontal
5855.00	67.15	33.05	7.60	41.90	65.90	110.80	-44.90	Horizontal
5875.00	61.89	33.08	7.64	41.92	60.69	105.20	-44.51	Horizontal
5925.00	55.83	33.17	7.69	41.94	54.75	68.20	-13.45	Horizontal
5850.00	65.19	33.04	7.45	41.85	63.83	122.20	-58.37	Vertical
5855.00	61.58	33.05	7.60	41.90	60.33	110.80	-50.47	Vertical
5875.00	52.89	33.08	7.64	41.92	51.69	105.20	-53.51	Vertical
5925.00	52.91	33.17	7.69	41.94	51.83	68.20	-16.37	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

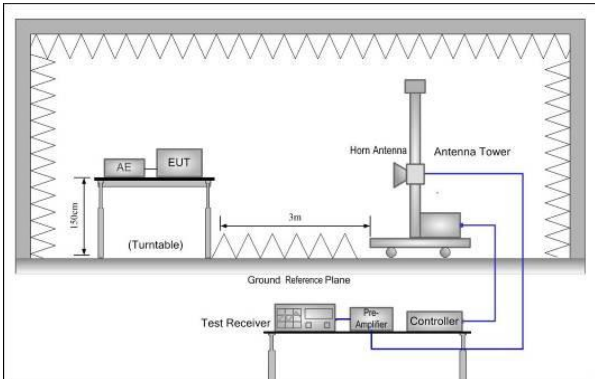
Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	52.94	32.68	7.45	41.85	51.22	68.20	-16.98	Horizontal
5700.00	56.73	32.77	7.60	41.90	55.20	105.20	-50.00	Horizontal
5720.00	82.96	32.81	7.64	41.92	81.49	110.80	-29.31	Horizontal
5725.00	89.16	32.81	7.69	41.94	87.72	122.20	-34.48	Horizontal
5650.00	56.73	32.68	7.45	41.85	55.01	68.20	-13.19	Vertical
5700.00	57.52	32.77	7.60	41.90	55.99	105.20	-49.21	Vertical
5720.00	78.33	32.81	7.64	41.92	76.86	110.80	-33.94	Vertical
5725.00	86.54	32.81	7.69	41.94	85.10	122.20	-37.10	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	88.73	33.04	7.45	41.85	87.37	122.20	-34.83	Horizontal
5855.00	82.49	33.05	7.60	41.90	81.24	110.80	-29.56	Horizontal
5875.00	70.69	33.08	7.64	41.92	69.49	105.20	-35.71	Horizontal
5925.00	56.83	33.17	7.69	41.94	55.75	68.20	-12.45	Horizontal
5850.00	84.41	33.04	7.45	41.85	83.05	122.20	-39.15	Vertical
5855.00	76.55	33.05	7.60	41.90	75.30	110.80	-35.50	Vertical
5875.00	65.18	33.08	7.64	41.92	63.98	105.20	-41.22	Vertical
5925.00	53.79	33.17	7.69	41.94	52.71	68.20	-15.49	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	53.89	32.68	7.45	41.85	52.17	68.20	-16.03	Horizontal
5700.00	68.74	32.77	7.60	41.90	67.21	105.20	-37.99	Horizontal
5720.00	83.52	32.81	7.64	41.92	82.05	110.80	-28.75	Horizontal
5725.00	85.19	32.81	7.69	41.94	83.75	122.20	-38.45	Horizontal
5650.00	55.73	32.68	7.45	41.85	54.01	68.20	-14.19	Vertical
5700.00	70.19	32.77	7.60	41.90	68.66	105.20	-36.54	Vertical
5720.00	85.69	32.81	7.64	41.92	84.22	110.80	-26.58	Vertical
5725.00	86.91	32.81	7.69	41.94	85.47	122.20	-36.73	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	88.61	33.04	7.45	41.85	87.25	122.20	-34.95	Horizontal
5855.00	82.49	33.05	7.60	41.90	81.24	110.80	-29.56	Horizontal
5875.00	70.16	33.08	7.64	41.92	68.96	105.20	-36.24	Horizontal
5925.00	55.83	33.17	7.69	41.94	54.75	68.20	-13.45	Horizontal
5850.00	85.79	33.04	7.45	41.85	84.43	122.20	-37.77	Vertical
5855.00	80.10	33.05	7.60	41.90	78.85	110.80	-31.95	Vertical
5875.00	65.29	33.08	7.64	41.92	64.09	105.20	-41.11	Vertical
5925.00	55.73	33.17	7.69	41.94	54.65	68.20	-13.55	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5650.00	63.89	32.68	7.45	41.85	62.17	68.20	-6.03	Horizontal
5700.00	68.16	32.77	7.60	41.90	66.63	105.20	-38.57	Horizontal
5720.00	85.55	32.81	7.64	41.92	84.08	110.80	-26.72	Horizontal
5725.00	85.73	32.81	7.69	41.94	84.29	122.20	-37.91	Horizontal
5650.00	60.19	32.68	7.45	41.85	58.47	68.20	-9.73	Vertical
5700.00	68.93	32.77	7.60	41.90	67.40	105.20	-37.80	Vertical
5720.00	83.41	32.81	7.64	41.92	81.94	110.80	-28.86	Vertical
5725.00	84.29	32.81	7.69	41.94	82.85	122.20	-39.35	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5850.00	82.49	33.04	7.45	41.85	81.13	122.20	-41.07	Horizontal
5855.00	82.73	33.05	7.60	41.90	81.48	110.80	-29.32	Horizontal
5875.00	80.16	33.08	7.64	41.92	78.96	105.20	-26.24	Horizontal
5925.00	62.49	33.17	7.69	41.94	61.41	68.20	-6.79	Horizontal
5850.00	78.85	33.04	7.45	41.85	77.49	122.20	-44.71	Vertical
5855.00	76.33	33.05	7.60	41.90	75.08	110.80	-35.72	Vertical
5875.00	72.71	33.08	7.64	41.92	71.51	105.20	-33.69	Vertical
5925.00	57.18	33.17	7.69	41.94	56.10	68.20	-12.10	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

6.7 Spurious Emission

6.7.1 Restricted Band

Test Requirement:	FCC Part15 E Section 15.407(b)				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency	Limit (dBuV/m @3m)		Remark	
	Above 1GHz	74.00		Peak Value	
		54.00		Average Value	
Test Procedure:	1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:					
Test Instruments:	Refer to section 5.9 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Passed				

Measurement Data (worst case):

AUX ANT:

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.85	34.50	6.80	42.05	42.10	74.00	-31.90	Horizontal
4500.00	41.19	34.50	6.80	42.05	40.44	74.00	-33.56	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.24	34.50	6.80	42.05	30.49	54.00	-23.51	Horizontal
4500.00	31.71	34.50	6.80	42.05	30.96	54.00	-23.04	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.10	34.90	7.18	41.85	42.33	74.00	-31.67	Horizontal
5460.00	41.97	34.90	7.18	41.85	42.20	74.00	-31.80	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.83	34.90	7.18	41.85	32.06	54.00	-21.94	Horizontal
5460.00	31.47	34.90	7.18	41.85	31.70	54.00	-22.30	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.13	34.50	6.80	42.05	41.38	74.00	-32.62	Horizontal
4500.00	41.58	34.50	6.80	42.05	40.83	74.00	-33.17	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.73	34.50	6.80	42.05	30.98	54.00	-23.02	Horizontal
4500.00	31.19	34.50	6.80	42.05	30.44	54.00	-23.56	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.29	34.90	7.18	41.85	41.52	74.00	-32.48	Horizontal
5460.00	41.73	34.90	7.18	41.85	41.96	74.00	-32.04	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.15	34.90	7.18	41.85	31.38	54.00	-22.62	Horizontal
5460.00	31.73	34.90	7.18	41.85	31.96	54.00	-22.04	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.73	34.50	6.80	42.05	41.98	74.00	-32.02	Horizontal
4500.00	41.97	34.50	6.80	42.05	41.22	74.00	-32.78	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.49	34.50	6.80	42.05	30.74	54.00	-23.26	Horizontal
4500.00	31.72	34.50	6.80	42.05	30.97	54.00	-23.03	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	41.97	34.90	7.18	41.85	42.20	74.00	-31.80	Horizontal
5460.00	41.28	34.90	7.18	41.85	41.51	74.00	-32.49	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.49	34.90	7.18	41.85	31.72	54.00	-22.28	Horizontal
5460.00	31.55	34.90	7.18	41.85	31.78	54.00	-22.22	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.17	34.50	6.80	42.05	41.42	74.00	-32.58	Horizontal
4500.00	41.98	34.50	6.80	42.05	41.23	74.00	-32.77	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.79	34.50	6.80	42.05	31.04	54.00	-22.96	Horizontal
4500.00	31.54	34.50	6.80	42.05	30.79	54.00	-23.21	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.83	34.90	7.18	41.85	43.06	74.00	-30.94	Horizontal
5460.00	41.49	34.90	7.18	41.85	41.72	74.00	-32.28	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.59	34.90	7.18	41.85	31.82	54.00	-22.18	Horizontal
5460.00	31.75	34.90	7.18	41.85	31.98	54.00	-22.02	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	55.18	35.37	7.11	41.89	55.77	74.00	-18.23	Horizontal
5350.00	53.24	35.37	7.11	41.89	53.83	74.00	-20.17	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	46.23	35.37	7.11	41.89	46.82	54.00	-7.18	Horizontal
5350.00	45.28	35.37	7.11	41.89	45.87	54.00	-8.13	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.93	34.90	7.18	41.85	55.16	74.00	-18.84	Horizontal
5460.00	53.29	34.90	7.18	41.85	53.52	74.00	-20.48	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	44.27	34.90	7.18	41.85	44.50	54.00	-9.50	Horizontal
5460.00	43.17	34.90	7.18	41.85	43.40	54.00	-10.60	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	55.83	35.37	7.11	41.89	56.42	74.00	-17.58	Horizontal
5350.00	54.17	35.37	7.11	41.89	54.76	74.00	-19.24	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	45.29	35.37	7.11	41.89	45.88	54.00	-8.12	Horizontal
5350.00	43.63	35.37	7.11	41.89	44.22	54.00	-9.78	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.17	34.90	7.18	41.85	54.40	74.00	-19.60	Horizontal
5460.00	54.89	34.90	7.18	41.85	55.12	74.00	-18.88	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	44.24	34.90	7.18	41.85	44.47	54.00	-9.53	Horizontal
5460.00	43.29	34.90	7.18	41.85	43.52	54.00	-10.48	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	54.18	35.37	7.11	41.89	54.77	74.00	-19.23	Horizontal
5350.00	53.69	35.37	7.11	41.89	54.28	74.00	-19.72	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	44.19	35.37	7.11	41.89	44.78	54.00	-9.22	Horizontal
5350.00	43.85	35.37	7.11	41.89	44.44	54.00	-9.56	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.79	34.90	7.18	41.85	55.02	74.00	-18.98	Horizontal
5460.00	54.63	34.90	7.18	41.85	54.86	74.00	-19.14	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	44.85	34.90	7.18	41.85	45.08	54.00	-8.92	Horizontal
5460.00	43.79	34.90	7.18	41.85	44.02	54.00	-9.98	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	54.83	35.37	7.11	41.89	55.42	74.00	-18.58	Horizontal
5350.00	53.96	35.37	7.11	41.89	54.55	74.00	-19.45	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	44.52	35.37	7.11	41.89	45.11	54.00	-8.89	Horizontal
5350.00	43.28	35.37	7.11	41.89	43.87	54.00	-10.13	Vertical
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.18	34.90	7.18	41.85	53.41	74.00	-20.59	Horizontal
5460.00	54.29	34.90	7.18	41.85	54.52	74.00	-19.49	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	43.67	34.90	7.18	41.85	43.90	54.00	-10.10	Horizontal
5460.00	42.26	34.90	7.18	41.85	42.49	54.00	-11.51	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

MAIN ANT:

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.17	34.50	6.80	42.05	41.42	74.00	-32.58	Horizontal
4500.00	42.94	34.50	6.80	42.05	42.19	74.00	-31.81	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.98	34.50	6.80	42.05	31.23	54.00	-22.77	Horizontal
4500.00	31.67	34.50	6.80	42.05	30.92	54.00	-23.08	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.52	34.90	7.18	41.85	42.75	74.00	-31.25	Horizontal
5460.00	41.74	34.90	7.18	41.85	41.97	74.00	-32.03	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.58	34.90	7.18	41.85	31.81	54.00	-22.19	Horizontal
5460.00	31.67	34.90	7.18	41.85	31.90	54.00	-22.10	Vertical
Remark: 1. <i>Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.</i> 2. <i>The emission levels of other frequencies are very lower than the limit and not show in test report.</i>								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.19	34.50	6.80	42.05	41.44	74.00	-32.56	Horizontal
4500.00	41.38	34.50	6.80	42.05	40.63	74.00	-33.37	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.47	34.50	6.80	42.05	30.72	54.00	-23.28	Horizontal
4500.00	31.29	34.50	6.80	42.05	30.54	54.00	-23.46	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.53	34.90	7.18	41.85	42.76	74.00	-31.24	Horizontal
5460.00	41.29	34.90	7.18	41.85	41.52	74.00	-32.48	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.73	34.90	7.18	41.85	31.96	54.00	-22.04	Horizontal
5460.00	31.69	34.90	7.18	41.85	31.92	54.00	-22.08	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.96	34.50	6.80	42.05	42.21	74.00	-31.79	Horizontal
4500.00	42.34	34.50	6.80	42.05	41.59	74.00	-32.41	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.87	34.50	6.80	42.05	31.12	54.00	-22.88	Horizontal
4500.00	31.59	34.50	6.80	42.05	30.84	54.00	-23.16	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.56	34.90	7.18	41.85	42.79	74.00	-31.21	Horizontal
5460.00	41.73	34.90	7.18	41.85	41.96	74.00	-32.04	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	32.16	34.90	7.18	41.85	32.39	54.00	-21.61	Horizontal
5460.00	32.83	34.90	7.18	41.85	33.06	54.00	-20.94	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	42.96	34.50	6.80	42.05	42.21	74.00	-31.79	Horizontal
4500.00	42.71	34.50	6.80	42.05	41.96	74.00	-32.04	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
4500.00	31.28	34.50	6.80	42.05	30.53	54.00	-23.47	Horizontal
4500.00	31.94	34.50	6.80	42.05	31.19	54.00	-22.81	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	42.55	34.90	7.18	41.85	42.78	74.00	-31.22	Horizontal
5460.00	42.19	34.90	7.18	41.85	42.42	74.00	-31.58	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	31.89	34.90	7.18	41.85	32.12	54.00	-21.88	Horizontal
5460.00	31.47	34.90	7.18	41.85	31.70	54.00	-22.30	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

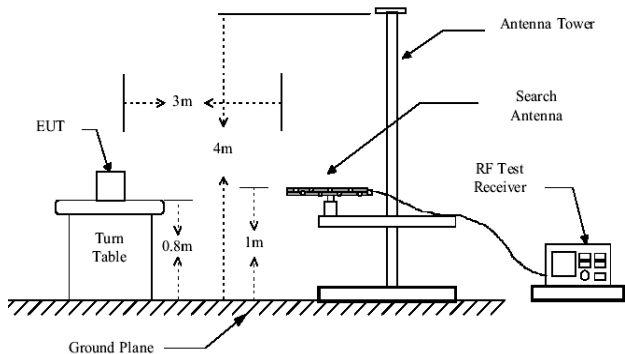
Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	55.71	35.37	7.11	41.89	56.30	74.00	-17.70	Horizontal
5350.00	54.29	35.37	7.11	41.89	54.88	74.00	-19.12	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	45.18	35.37	7.11	41.89	45.77	54.00	-8.23	Horizontal
5350.00	43.52	35.37	7.11	41.89	44.11	54.00	-9.89	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.73	34.90	7.18	41.85	54.96	74.00	-19.04	Horizontal
5460.00	54.80	34.90	7.18	41.85	55.03	74.00	-18.97	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.29	34.90	7.18	41.85	45.52	54.00	-8.48	Horizontal
5460.00	44.73	34.90	7.18	41.85	44.96	54.00	-9.04	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

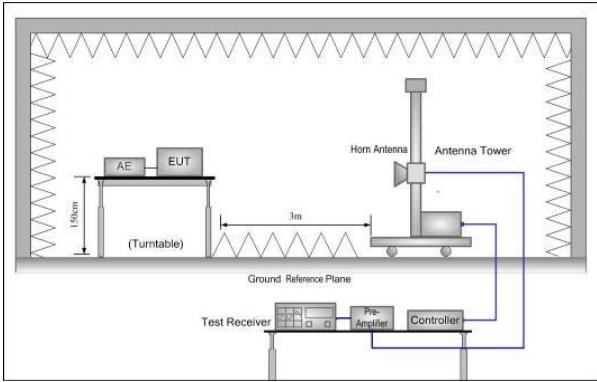
Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	55.19	35.37	7.11	41.89	55.78	74.00	-18.22	Horizontal
5350.00	54.73	35.37	7.11	41.89	55.32	74.00	-18.68	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	44.29	35.37	7.11	41.89	44.88	54.00	-9.12	Horizontal
5350.00	43.83	35.37	7.11	41.89	44.42	54.00	-9.59	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.18	34.90	7.18	41.85	54.41	74.00	-19.59	Horizontal
5460.00	54.93	34.90	7.18	41.85	55.16	74.00	-18.84	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	45.27	34.90	7.18	41.85	45.50	54.00	-8.50	Horizontal
5460.00	45.79	34.90	7.18	41.85	46.02	54.00	-7.98	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	54.18	35.37	7.11	41.89	54.77	74.00	-19.23	Horizontal
5350.00	54.29	35.37	7.11	41.89	54.88	74.00	-19.12	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	43.52	35.37	7.11	41.89	44.11	54.00	-9.89	Horizontal
5350.00	43.79	35.37	7.11	41.89	44.38	54.00	-9.62	Vertical
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	54.17	34.90	7.18	41.85	54.40	74.00	-19.60	Horizontal
5460.00	53.56	34.90	7.18	41.85	53.79	74.00	-20.21	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	44.29	34.90	7.18	41.85	44.52	54.00	-9.48	Horizontal
5460.00	43.56	34.90	7.18	41.85	43.79	54.00	-10.21	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	54.81	35.37	7.11	41.89	55.40	74.00	-18.60	Horizontal
5350.00	54.27	35.37	7.11	41.89	54.86	74.00	-19.14	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5350.00	44.24	35.37	7.11	41.89	44.83	54.00	-9.17	Horizontal
5350.00	44.61	35.37	7.11	41.89	45.20	54.00	-8.80	Vertical
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	53.82	34.90	7.18	41.85	54.05	74.00	-19.95	Horizontal
5460.00	53.96	34.90	7.18	41.85	54.19	74.00	-19.81	Vertical
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV/m)	Antenna Factor (dB)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
5460.00	43.78	34.90	7.18	41.85	44.01	54.00	-9.99	Horizontal
5460.00	43.28	34.90	7.18	41.85	43.51	54.00	-10.49	Vertical
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

6.7.2 Unwanted Emissions out of the Restricted Bands

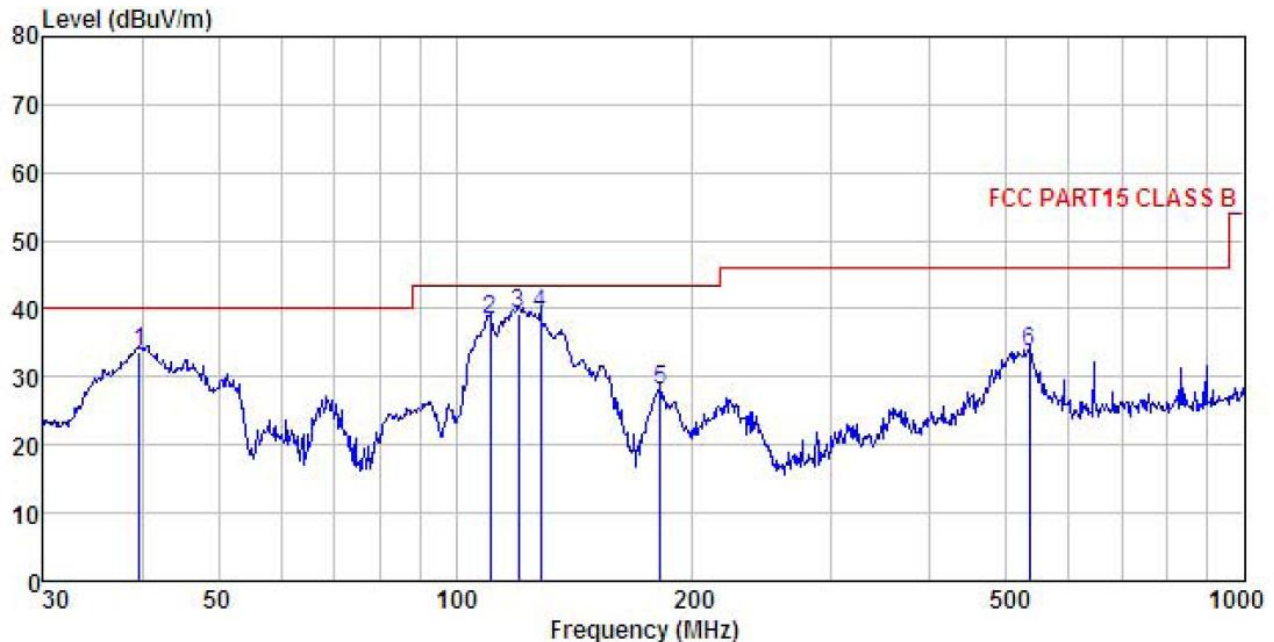
Test Requirement:	FCC Part15 C Section 15.209 and 15.205				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	30MHz to 40GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	30MHz-1GHz	Quasi-peak	100kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value
Limit:	Frequency		Limit (dBuV/m @3m)		Remark
	30MHz-88MHz		40.0		Quasi-peak Value
	88MHz-216MHz		43.5		Quasi-peak Value
	216MHz-960MHz		46.0		Quasi-peak Value
	960MHz-1GHz		54.0		Quasi-peak Value
	Above 1GHz		68.20		Peak Value
			54.00		Average Value
	Remark:				
	Above 1GHz limit:				
	$E[dB\mu V/m] = EIRP[dBm] + 95.2 = 68.2 \text{ dBuV/m}$, for $EIRP[dBm] = -27dBm$.				
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.				
Test setup:	Below 1GHz  Above 1GHz				

	
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

Below 1GHz

Product Name:	13.3-INCH 2 IN 1 TABLET	Product Model:	HERO13C
Test By:	Carey	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%

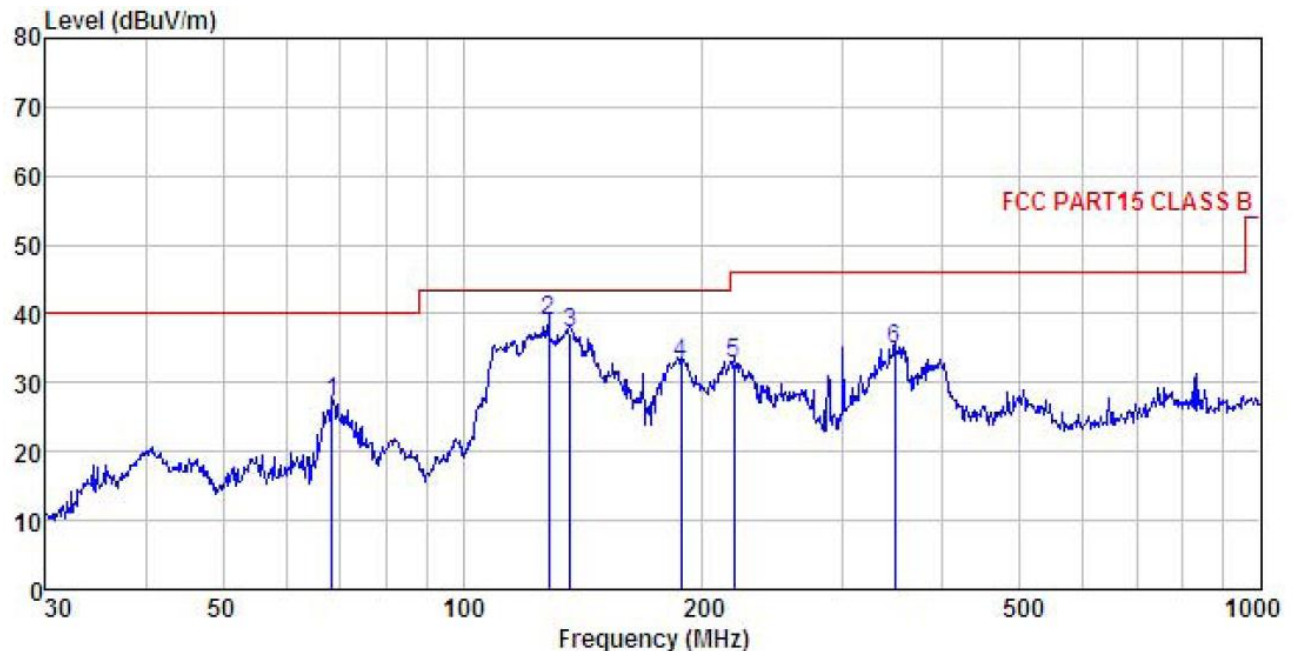


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.715	49.54	12.74	1.21	29.90	33.59	40.00	-6.41	QP
2	110.569	53.47	12.18	2.05	29.45	38.25	43.50	-5.25	QP
3	120.277	56.43	10.16	2.17	29.39	39.37	43.50	-4.13	QP
4	128.113	57.42	8.97	2.26	29.34	39.31	43.50	-4.19	QP
5	181.920	44.25	10.07	2.74	28.96	28.10	43.50	-15.40	QP
6	533.832	40.96	17.84	3.80	29.05	33.55	46.00	-12.45	QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	13.3-INCH 2 IN 1 TABLET	Product Model:	HERO13C
Test By:	Carey	Test mode:	5G Wi-Fi Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Humi: 57%



	Freq	ReadAntenna	Cable	Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	68.631	45.74	9.52	1.49	29.73	27.02	40.00	-12.98 QP
2	128.113	57.07	8.97	2.26	29.34	38.96	43.50	-4.54 QP
3	136.460	55.93	8.31	2.36	29.29	37.31	43.50	-6.19 QP
4	187.753	47.92	10.89	2.78	28.92	32.67	43.50	-10.83 QP
5	219.075	46.40	12.23	2.85	28.71	32.77	46.00	-13.23 QP
6	348.027	45.68	14.56	3.09	28.56	34.77	46.00	-11.23 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Above 1GHz:

AUX ANT:

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.25	40.10	9.82	41.97	57.20	68.20	-11.00	Vertical
10360.00	48.73	40.10	9.82	41.97	56.68	68.20	-11.52	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.15	40.10	9.82	41.97	48.10	54.00	-5.90	Vertical
10360.00	39.55	40.10	9.82	41.97	47.50	54.00	-6.50	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	49.89	40.00	9.85	41.95	57.79	68.20	-10.41	Vertical
10400.00	49.25	40.00	9.85	41.95	57.15	68.20	-11.05	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	39.78	40.00	9.85	41.95	47.68	54.00	-6.32	Vertical
10400.00	39.24	40.00	9.85	41.95	47.14	54.00	-6.86	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	49.85	39.70	9.96	41.88	57.63	68.20	-10.57	Vertical
10480.00	48.73	39.70	9.96	41.88	56.51	68.20	-11.69	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	39.15	39.70	9.96	41.88	46.93	54.00	-7.07	Vertical
10480.00	38.76	39.70	9.96	41.88	46.54	54.00	-7.46	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.71	40.10	9.82	41.97	57.66	68.20	-10.54	Vertical
10360.00	48.96	40.10	9.82	41.97	56.91	68.20	-11.29	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	39.58	40.10	9.82	41.97	47.53	54.00	-6.47	Vertical
10360.00	39.47	40.10	9.82	41.97	47.42	54.00	-6.58	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	49.27	40.00	9.85	41.95	57.17	68.20	-11.03	Vertical
10400.00	49.63	40.00	9.85	41.95	57.53	68.20	-10.67	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	39.82	40.00	9.85	41.95	47.72	54.00	-6.28	Vertical
10400.00	39.27	40.00	9.85	41.95	47.17	54.00	-6.83	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	49.23	39.70	9.96	41.88	57.01	68.20	-11.19	Vertical
10480.00	49.61	39.70	9.96	41.88	57.39	68.20	-10.81	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	39.52	39.70	9.96	41.88	47.30	54.00	-6.70	Vertical
10480.00	39.71	39.70	9.96	41.88	47.49	54.00	-6.51	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	48.15	40.00	9.85	41.95	56.05	68.20	-12.15	Vertical
10380.00	47.96	40.00	9.85	41.95	55.86	68.20	-12.34	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	38.21	40.00	9.85	41.95	46.11	54.00	-7.89	Vertical
10380.00	38.43	40.00	9.85	41.95	46.33	54.00	-7.67	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	49.89	39.80	9.92	41.90	57.71	68.20	-10.49	Vertical
10460.00	49.71	39.80	9.92	41.90	57.53	68.20	-10.67	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	39.15	39.80	9.92	41.90	46.97	54.00	-7.03	Vertical
10460.00	39.52	39.80	9.92	41.90	47.34	54.00	-6.66	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	47.22	40.10	9.82	41.97	55.17	68.20	-13.03	Vertical
10420.00	48.73	40.10	9.82	41.97	56.68	68.20	-11.52	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamplifier Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	38.29	40.10	9.82	41.97	46.24	54.00	-7.76	Vertical
10420.00	38.41	40.10	9.82	41.97	46.36	54.00	-7.64	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	48.72	41.50	10.81	42.29	58.74	74.00	-15.26	Vertical
11490.00	47.91	41.50	10.81	42.29	57.93	74.00	-16.07	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	37.15	41.50	10.81	42.29	47.17	54.00	-6.83	Vertical
11490.00	38.26	41.50	10.81	42.29	48.28	54.00	-5.72	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	49.38	41.38	10.78	42.27	59.27	74.00	-14.73	Vertical
11570.00	48.27	41.38	10.78	42.27	58.16	74.00	-15.84	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	37.26	41.38	10.78	42.27	47.15	54.00	-6.85	Vertical
11570.00	36.18	41.38	10.78	42.27	46.07	54.00	-7.93	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	48.51	41.26	10.76	42.26	58.27	74.00	-15.73	Vertical
11650.00	49.27	41.26	10.76	42.26	59.03	74.00	-14.97	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	39.55	41.26	10.76	42.26	49.31	54.00	-4.69	Vertical
11650.00	38.16	41.26	10.76	42.26	47.92	54.00	-6.08	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	48.73	41.50	10.81	42.29	58.75	74.00	-15.25	Vertical
11490.00	47.51	41.50	10.81	42.29	57.53	74.00	-16.47	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	38.67	41.50	10.81	42.29	48.69	54.00	-5.31	Vertical
11490.00	38.24	41.50	10.81	42.29	48.26	54.00	-5.74	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	49.28	41.38	10.78	42.27	59.17	74.00	-14.83	Vertical
11570.00	48.83	41.38	10.78	42.27	58.72	74.00	-15.28	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	37.16	41.38	10.78	42.27	47.05	54.00	-6.95	Vertical
11570.00	37.61	41.38	10.78	42.27	47.50	54.00	-6.50	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	48.15	41.26	10.76	42.26	57.91	74.00	-16.09	Vertical
11650.00	48.63	41.26	10.76	42.26	58.39	74.00	-15.61	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	38.52	41.26	10.76	42.26	48.28	54.00	-5.72	Vertical
11650.00	37.16	41.26	10.76	42.26	46.92	54.00	-7.08	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	48.73	41.50	10.81	42.29	58.75	74.00	-15.25	Vertical
11510.00	47.16	41.50	10.81	42.29	57.18	74.00	-16.82	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	38.61	41.50	10.81	42.29	48.63	54.00	-5.37	Vertical
11510.00	37.54	41.50	10.81	42.29	47.56	54.00	-6.44	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	49.87	41.32	10.77	42.27	59.69	74.00	-14.31	Vertical
11590.00	48.16	41.32	10.77	42.27	57.98	74.00	-16.02	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	37.26	41.32	10.77	42.27	47.08	54.00	-6.92	Vertical
11590.00	37.67	41.32	10.77	42.27	47.49	54.00	-6.51	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11550.00	48.82	41.50	10.81	42.29	58.84	74.00	-15.16	Vertical
11550.00	48.73	41.50	10.81	42.29	58.75	74.00	-15.25	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11550.00	36.15	41.50	10.81	42.29	46.17	54.00	-7.83	Vertical
11550.00	37.24	41.50	10.81	42.29	47.26	54.00	-6.74	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

MAIN ANT:

Band 1:

Band 1 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	49.15	40.10	9.82	41.97	57.10	68.20	-11.10	Vertical
10360.00	48.83	40.10	9.82	41.97	56.78	68.20	-11.42	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	40.06	40.10	9.82	41.97	48.01	54.00	-5.99	Vertical
10360.00	39.83	40.10	9.82	41.97	47.78	54.00	-6.22	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	49.78	40.00	9.85	41.95	57.68	68.20	-10.52	Vertical
10400.00	49.63	40.00	9.85	41.95	57.53	68.20	-10.67	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	39.15	40.00	9.85	41.95	47.05	54.00	-6.95	Vertical
10400.00	39.72	40.00	9.85	41.95	47.62	54.00	-6.38	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	49.24	39.70	9.96	41.88	57.02	68.20	-11.18	Vertical
10480.00	49.62	39.70	9.96	41.88	57.40	68.20	-10.80	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	39.15	39.70	9.96	41.88	46.93	54.00	-7.07	Vertical
10480.00	38.71	39.70	9.96	41.88	46.49	54.00	-7.51	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	48.79	40.10	9.82	41.97	56.74	68.20	-11.46	Vertical
10360.00	49.26	40.10	9.82	41.97	57.21	68.20	-10.99	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10360.00	39.63	40.10	9.82	41.97	47.58	54.00	-6.42	Vertical
10360.00	38.42	40.10	9.82	41.97	46.37	54.00	-7.63	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	49.85	40.00	9.85	41.95	57.75	68.20	-10.45	Vertical
10400.00	49.27	40.00	9.85	41.95	57.17	68.20	-11.03	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10400.00	38.16	40.00	9.85	41.95	46.06	54.00	-7.94	Vertical
10400.00	38.91	40.00	9.85	41.95	46.81	54.00	-7.19	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	49.57	39.70	9.96	41.88	57.35	68.20	-10.85	Vertical
10480.00	48.61	39.70	9.96	41.88	56.39	68.20	-11.81	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10480.00	39.15	39.70	9.96	41.88	46.93	54.00	-7.07	Vertical
10480.00	38.89	39.70	9.96	41.88	46.67	54.00	-7.33	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	48.72	40.00	9.85	41.95	56.62	68.20	-11.58	Vertical
10380.00	47.16	40.00	9.85	41.95	55.06	68.20	-13.14	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10380.00	37.28	40.00	9.85	41.95	45.18	54.00	-8.82	Vertical
10380.00	37.69	40.00	9.85	41.95	45.59	54.00	-8.41	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	48.79	39.80	9.92	41.90	56.61	68.20	-11.59	Vertical
10460.00	48.26	39.80	9.92	41.90	56.08	68.20	-12.12	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10460.00	38.57	39.80	9.92	41.90	46.39	54.00	-7.61	Vertical
10460.00	39.43	39.80	9.92	41.90	47.25	54.00	-6.75	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 1 – 802.11ac(HT80)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	48.24	40.10	9.82	41.97	56.19	68.20	-12.01	Vertical
10420.00	49.63	40.10	9.82	41.97	57.58	68.20	-10.62	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
10420.00	38.45	40.10	9.82	41.97	46.40	54.00	-7.60	Vertical
10420.00	38.16	40.10	9.82	41.97	46.11	54.00	-7.89	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4:

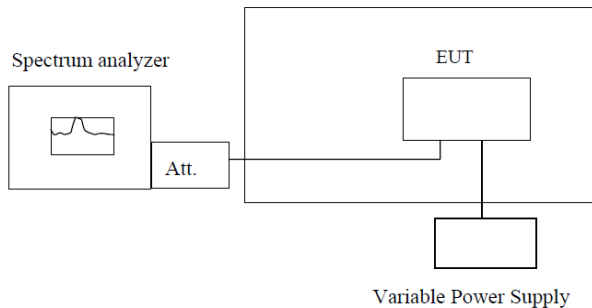
Band 4 – 802.11a								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	48.29	41.50	10.81	42.29	58.31	74.00	-15.69	Vertical
11490.00	47.63	41.50	10.81	42.29	57.65	74.00	-16.35	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	37.15	41.50	10.81	42.29	47.17	54.00	-6.83	Vertical
11490.00	37.56	41.50	10.81	42.29	47.58	54.00	-6.42	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	48.53	41.38	10.78	42.27	58.42	74.00	-15.58	Vertical
11570.00	48.29	41.38	10.78	42.27	58.18	74.00	-15.82	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	37.63	41.38	10.78	42.27	47.52	54.00	-6.48	Vertical
11570.00	37.53	41.38	10.78	42.27	47.42	54.00	-6.58	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	47.83	41.26	10.76	42.26	57.59	74.00	-16.41	Vertical
11650.00	48.30	41.26	10.76	42.26	58.06	74.00	-15.94	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	36.53	41.26	10.76	42.26	46.29	54.00	-7.71	Vertical
11650.00	37.17	41.26	10.76	42.26	46.93	54.00	-7.07	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT20)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	48.97	41.50	10.81	42.29	58.99	74.00	-15.01	Vertical
11490.00	47.53	41.50	10.81	42.29	57.55	74.00	-16.45	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11490.00	37.59	41.50	10.81	42.29	47.61	54.00	-6.39	Vertical
11490.00	37.94	41.50	10.81	42.29	47.96	54.00	-6.04	Horizontal
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	48.93	41.38	10.78	42.27	58.82	74.00	-15.18	Vertical
11570.00	48.71	41.38	10.78	42.27	58.60	74.00	-15.40	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11570.00	37.14	41.38	10.78	42.27	47.03	54.00	-6.97	Vertical
11570.00	37.69	41.38	10.78	42.27	47.58	54.00	-6.42	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	47.29	41.26	10.76	42.26	57.05	74.00	-16.95	Vertical
11650.00	48.67	41.26	10.76	42.26	58.43	74.00	-15.57	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11650.00	36.46	41.26	10.76	42.26	46.22	54.00	-7.78	Vertical
11650.00	37.52	41.26	10.76	42.26	47.28	54.00	-6.72	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11n(HT40)								
Test channel: Lowest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	48.79	41.50	10.81	42.29	58.81	74.00	-15.19	Vertical
11510.00	47.63	41.50	10.81	42.29	57.65	74.00	-16.35	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11510.00	38.21	41.50	10.81	42.29	48.23	54.00	-5.77	Vertical
11510.00	37.56	41.50	10.81	42.29	47.58	54.00	-6.42	Horizontal
Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	49.79	41.32	10.77	42.27	59.61	74.00	-14.39	Vertical
11590.00	48.52	41.32	10.77	42.27	58.34	74.00	-15.66	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11590.00	37.52	41.32	10.77	42.27	47.34	54.00	-6.66	Vertical
11590.00	37.46	41.32	10.77	42.27	47.28	54.00	-6.72	Horizontal
Remark:								
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.								
2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

Band 4 – 802.11ac(HT80)								
Test channel: Middle channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization
11550.00	47.29	41.50	10.81	42.29	57.31	74.00	-16.69	Vertical
11550.00	47.63	41.50	10.81	42.29	57.65	74.00	-16.35	Horizontal
Detector: Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11550.00	36.59	41.50	10.81	42.29	46.61	54.00	-7.39	Vertical
11550.00	37.24	41.50	10.81	42.29	47.26	54.00	-6.74	Horizontal
Remark: 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor. 2. The emission levels of other frequencies are very lower than the limit and not show in test report.								

6.8 Frequency stability

Test Requirement:	FCC Part15 E Section 15.407 (g)
Limit:	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.
Test setup:	Temperature Chamber  Variable Power Supply Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The EUT is installed in an environment test chamber with external power source. 2. Set the chamber to operate at 50 centigrade and external power source to output at nominal voltage of EUT. 3. A sufficient stabilization period at each temperature is used prior to each frequency measurement. 4. When temperature is stabled, measure the frequency stability. 5. The test shall be performed under -30 to 50 centigrade and 85 to 115 percent of the nominal voltage. Change setting of chamber and external power source to complete all conditions.
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (the worst channel):

Band 1:

Voltage vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	102V	5179.997643	0.45
	120V	5179.974779	4.87
	138V	5179.963951	6.96

Temperature vs. Frequency Stability (Lowest channel=5180MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5179.987033	2.50
	-10	5179.995377	0.89
	0	5179.968421	6.10
	10	5179.987556	2.40
	20	5179.996681	0.64
	30	5179.974290	4.96
	40	5179.963775	6.99
	50	5179.974929	4.84

Band 4:

Voltage vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Temp(°C)	Voltage(ac)		
20	102V	5744.974766	4.39
	120V	5744.993381	1.15
	138V	5744.998588	0.25

Temperature vs. Frequency Stability (Lowest channel=5745MHz)

Test conditions		Frequency(MHz)	Max. Deviation (ppm)
Voltage(ac)	Temp(°C)		
120V	-20	5744.994798	0.91
	-10	5744.993693	1.10
	0	5744.994771	0.91
	10	5744.985355	2.55
	20	5744.993864	1.07
	30	5744.994481	0.96
	40	5744.999347	0.11
	50	5744.992458	1.31