

Test Report

FCC ID: ZUXIBB-M8

Date of issue: Nov. 13, 2020

Report number:	MTi20091506-6E2
Sample description:	iBaby Monitor M8
Model(s):	M8, M7L Pro, M7 Pro, M8C, M8 Pro, M8 Plus, M8L, M9, M9 Pro
Applicant:	iBaby Labs, Inc.
Address:	Room 601, 6/F, Block T2-B, Software Park, No.22, S . Gaoxin7th Ave., Nanshan District, Shenzhen, Guangdong, China
Date of test:	Oct. 12, 2020 to Nov. 13, 2020

Shenzhen Microtest Co., Ltd.
<http://www.mtitest.com>

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Test Result Certification

Applicant's name: iBaby Labs, Inc.

Address: Room 601, 6/F, Block T2-B, Software Park, No.22, S . Gaoxin7th Ave., Nanshan District, Shenzhen, Guangdong, China

Manufacture's name: iBaby Labs, Inc.

Address: Room 601, 6/F, Block T2-B, Software Park, No.22, S . Gaoxin7th Ave., Nanshan District, Shenzhen, Guangdong, China

Product name: iBaby Monitor M8

Trademark: iBaby

Model name: M8, M7L Pro, M7 Pro, M8C, M8 Pro, M8 Plus, M8L, M9, M9 Pro

Standards: FCC Part 15.407

Test procedure: ANSI C63.10-2013
KDB 789033 D02 General UNII Test Procedures New Rules v02r01

This device described above has been tested by Shenzhen Microtest Co., Ltd. and the test results show that the equipment under test (EUT) compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

Tested by:

Danny Xu

Nov. 13, 2020

Reviewed by:

Leo Su

Nov. 13, 2020

Reviewed by:

Tom Xue

Nov. 13, 2020



1 General information

1.1 Description of EUT

Equipment:	iBaby Monitor M8
Model name:	M8
Serial model:	M7L Pro, M7 Pro, M8C, M8 Pro, M8 Plus, M8L, M9, M9 Pro
Model difference:	All the models are the same circuit and RF module, except the appearance.
Frequency range:	U-NII-1: 5150 MHz to 5250 MHz, U-NII-2A: 5250 MHz to 5350 MHz, U-NII-2C: 5470 MHz to 5725 MHz, U-NII-3: 5725 MHz to 5850 MHz
Modulation type:	OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11a/n/ac;
Transfer rate:	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40): MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40):NSS1, MCS0-MCS9 802.11ac(VHT80) :NSS1,MCS0-MCS9
Channel bandwidth:	802.11a: 20 MHz 802.11n: 20 MHz, 40 MHz 802.11ac: 20 MHz, 40 MHz, 80MHz
Antenna type:	FPC antenna
Antenna gain:	3dBi
Max. output power:	U-NII-1: 9.79 dBm, U-NII-2A: 11.70 dBm, U-NII-2C: 10.96 dBm, U-NII-3: 8.35dBm
Hardware version:	2.0
Software version:	2.1.0
Power supply:	DC 5V from adapter AC 120V/60Hz
Adapter information:	Model:GLH50D1500HW Input:100-240V~50/60Hz 0.40A Output:5.0V 1500mA
Battery:	N/A
Serial number:	MTi20091506-6-S0001



1.2 Operation channel list

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38	5190	46	5230
	40	5200	48	5240
	42	5210	50	5250

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54	5270	62	5310
	56	5280	64	5320
	58	5290		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	122	5610
	102	5510	124	5620
	104	5520	126	5630
	106	5530	128	5640
	108	5540	130	5650
	110	5550	132	5660
	112	5560	134	5670
	114	5570	136	5680
	116	5580	138	5690
	118	5590	140	5700
	120	5600		

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5725-5825 MHz Band 4 (U-NII-3)	149	5745	157	5785
	151	5755	159	5795
	153	5765	161	5805
	155	5775	165	5825



1.3 Test channel list

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850MHz
		802.11a	802.11a	802.11a	802.11a
L	Low	36	52	100	149
M	Middle	44	56	120	157
H	High	48	64	140	165

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850MHz
		802.11n HT20/ ac VHT20	802.11n HT20/ ac VHT20	802.11n HT20/ ac VHT20	802.11n HT20/ ac VHT20
L	Low	36	52	100	149
M	Middle	44	56	120	157
H	High	48	64	140	165

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850MHz
		802.11n HT40/ac VHT40	802.11n HT40/ac VHT40	802.11n HT40/ac VHT40	802.11n HT40/ac VHT40
L	Low	38	54	102	151
M	Middle	-	-	118	-
H	High	46	62	134	159

Ch. #		Band I : 5150-5250 MHz	Band II : 5250-5350 MHz	Band III : 5470-5725MHz	Band IV : 5725-5850MHz
		802.11ac VHT80	802.11ac VHT80	802.11ac VHT80	802.11ac VHT80
L	Low	-	-	-	-
M	Middle	42	58	106	155
H	High	-	-	-	-



1.4 Ancillary equipment list

Equipment	Model	S/N	Manufacturer	Certificate type
/	/	/	/	/

1.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Brand	Model/Type No.	Series No.	Note
/	/	/	/	/	/
/	/	/	/	/	/

Note:

- (1)The support equipment was authorized by Declaration of Confirmation.
- (2)For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2 Summary of the Test Results

Test procedures according to the technical standards:

No.	Standard Section	Test Item	Result	Remark
1	15.203/15.407	Antenna Requirement	Pass	
2	15.407(a)	RF Output Power	Pass	
3	15.207	Power Line Conducted Emission	Pass	
4	15.407(a)	26dB Emission Bandwidth and Occupied bandwidth	Pass	
5	15.407(e)	6 dB bandwidth	Pass	
6	15.407(a)	Power Spectral Density	Pass	
7	15.407(b) 15.209	Radiation Spurious Emission	Pass	



3 Test Facilities and Accreditations

3.1 Test laboratory

Test Laboratory	Shenzhen Microtest Co., Ltd
Location	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao' an District, Shenzhen, Guangdong, China.
FCC Registration No.:	448573

3.2 Environmental conditions

Temperature:	15°C~35°C
Humidity	20%~75%
Atmospheric pressure	98kPa~101kPa



3.3 Measurement uncertainty

The reported uncertainty of measurement $y \pm U$ where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$ providing a level of confidence of approximately 95 %

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

3.4 Test software

Software Name	Manufacturer	Model	Version
Bluetooth and WiFi Test System	Shenzhen JS tonskend co., ltd	JS1120-3	2.5.77.0418



4 Equipment list

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E043	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2020/06/04	2021/06/03
MTI-E044	TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-1338	2020/06/05	2021/06/04
MTI-E047	Amplifier	Hewlett-Packard	8447F	3113A06150	2020/06/04	2021/06/03
MTI-E089	ESG Vector Signal Generator	Agilent	N5182A	MY49060455	2020/06/03	2021/06/02
MTI-E058	ESG Series Analog Signal Generator	Agilent	E4421B	GB40051240	2020/07/03	2021/07/04
MTI-E062	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2020/06/04	2021/06/03
MTI-E066	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2020/06/04	2021/06/03
MTI-E078	Synthesized Sweeper	Agilent	83752A	3610A01957	2020/06/04	2021/06/03
MTI-E079	DC Power Supply	Agilent	E3632A	MY40027695	2020/06/04	2021/06/03
MTI-E045	Double Ridged Broadband Horn Antenna	schwarzbeck	BBHA 9120D	9120D-2278	2020/06/05	2021/06/04
MTI-E021	EMI Test Receiver	Rohde&schwarz	ESCS30	100210	2020/06/04	2021/06/03
MTI-E022	Pulse Limiter	Schwarzbeck	VSTD 9561-F	00679	2020/06/03	2021/06/02
MTI-E023	Artificial mains network	Schwarzbeck	NSLK 8127	NSLK 8127 #841	2020/06/04	2021/06/03
MTI-E046	Active Loop Antenna	Schwarzbeck	FMZB 1519B	00044	2020/06/05	2021/06/04
MTI-E048	Amplifier	Agilent	8449B	3008A02400	2020/07/03	2021/07/04
MTI-E072	Thermometer Clock Humidity Monitor	-	HTC-1	/	2020/06/07	2021/06/06

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



5 Test Results

5.1 Antenna requirement

5.1.1 Standard requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.1.2 EUT Antenna

The antenna is FPC antenna, which was permanently affixed to the device and un-replaced, complies with 15.203. In addition, the maximum antenna gain is 3dBi.

5.2 RF output power

5.2.1 Limit

For the 5.15-5.25 GHz band

For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz band

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

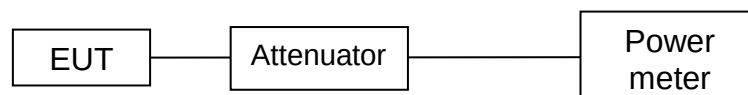
For the band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

5.2.2 Test procedure

The maximum peak conducted output power may be measured using a broadband Average RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the emission bandwidth and utilize a fast-responding diode detector.

5.2.3 Test setup





5.2.4 Test results

For U-NII-1

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH36	5180	9.11	8.15	250
11a	CH40	5200	9.27	8.45	250
11a	CH48	5240	9.48	8.87	250
11n (HT20)	CH36	5180	9.21	8.34	250
11n (HT20)	CH40	5200	9.24	8.39	250
11n (HT20)	CH48	5240	9.47	8.85	250
11n (HT40)	CH38	5190	9.35	8.61	250
11n (HT40)	CH46	5230	9.79	9.53	250

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11ac (HT20)	CH36	5180	9.21	8.34	250
11ac (HT20)	CH40	5200	9.29	8.49	250
11ac (HT20)	CH48	5240	9.74	9.42	250
11ac (HT40)	CH38	5190	9.29	8.49	250
11ac (HT40)	CH46	5230	9.65	9.23	250
11ac (HT80)	CH42	5210	7.44	5.55	250



For U-NII-2A

Modulation mode	Test Channel	Frequency(MHz)	Maximum Peak Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH52	5260	11.55	14.29	250
11a	CH56	5280	11.48	14.06	250
11a	CH64	5320	11.45	13.96	250
11n (HT20)	CH52	5260	11.64	14.59	250
11n (HT20)	CH56	5280	11.22	13.24	250
11n (HT20)	CH64	5320	11.34	13.61	250
11n (HT40)	CH54	5270	11.70	14.79	250
11n (HT40)	CH62	5310	11.57	14.35	250

Modulation mode	Test Channel	Frequency(MHz)	Maximum Peak Conducted Power		Limit(mW)
			(dBm)	(mW)	
11ac (VHT20)	CH52	5260	11.49	14.09	250
11ac (VHT20)	CH56	5280	11.39	13.77	250
11ac (VHT20)	CH64	5320	11.46	14.00	250
11ac (VHT40)	CH54	5270	11.63	14.55	250
11ac (VHT40)	CH62	5310	11.58	14.39	250
11ac (VHT80)	CH58	5290	10.63	11.56	250



For U-NII-2C

Modulation mode	Test Channel	Frequency(MHz)	Maximum Peak Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH100	5500	8.77	7.53	250
11a	CH120	5600	6.07	4.05	250
11a	CH140	5700	9.18	8.28	250
11n (HT20)	CH100	5500	9.46	8.83	250
11n (HT20)	CH120	5600	9.59	9.10	250
11n (HT20)	CH140	5700	7.66	5.83	250
11n (HT40)	CH102	5510	9.47	8.85	250
11n (HT40)	CH118	5590	10.96	12.47	250
11n (HT40)	CH134	5670	10.44	11.07	250

Modulation mode	Test Channel	Frequency(MHz)	Maximum Peak Conducted Power		Limit(mW)
			(dBm)	(mW)	
11ac (VHT20)	CH100	5500	9.70	9.33	250
11ac (VHT20)	CH120	5600	10.49	11.19	250
11ac (VHT20)	CH140	5700	10.21	10.50	250
11ac (VHT40)	CH102	5510	9.71	9.35	250
11ac (VHT40)	CH118	5590	10.62	11.53	250
11ac (VHT40)	CH134	5670	10.44	11.07	250
11ac (VHT80)	CH106	5530	9.23	8.38	250



For U-NII-3

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11a	CH149	5745	7.10	5.13	1000
11a	CH157	5785	7.52	5.65	1000
11a	CH165	5825	7.72	5.92	1000
11n (HT20)	CH149	5745	7.13	5.16	1000
11n (HT20)	CH157	5785	7.31	5.38	1000
11n (HT20)	CH165	5825	7.93	6.21	1000
11n (HT40)	CH151	5755	7.41	5.51	1000
11n (HT40)	CH159	5795	7.80	6.03	1000

Modulation mode	Test Channel	Frequency(MHz)	Average Conducted Power		Limit(mW)
			(dBm)	(mW)	
11ac (HT20)	CH149	5745	7.20	5.25	1000
11ac (HT20)	CH157	5785	7.48	5.60	1000
11ac (HT20)	CH165	5825	7.83	6.07	1000
11ac (HT40)	CH151	5755	7.42	5.52	1000
11ac (HT40)	CH159	5795	7.84	6.08	1000
11ac (HT80)	CH155	5775	8.35	6.84	1000



5.3 Power line conducted emission

5.3.1 Limits

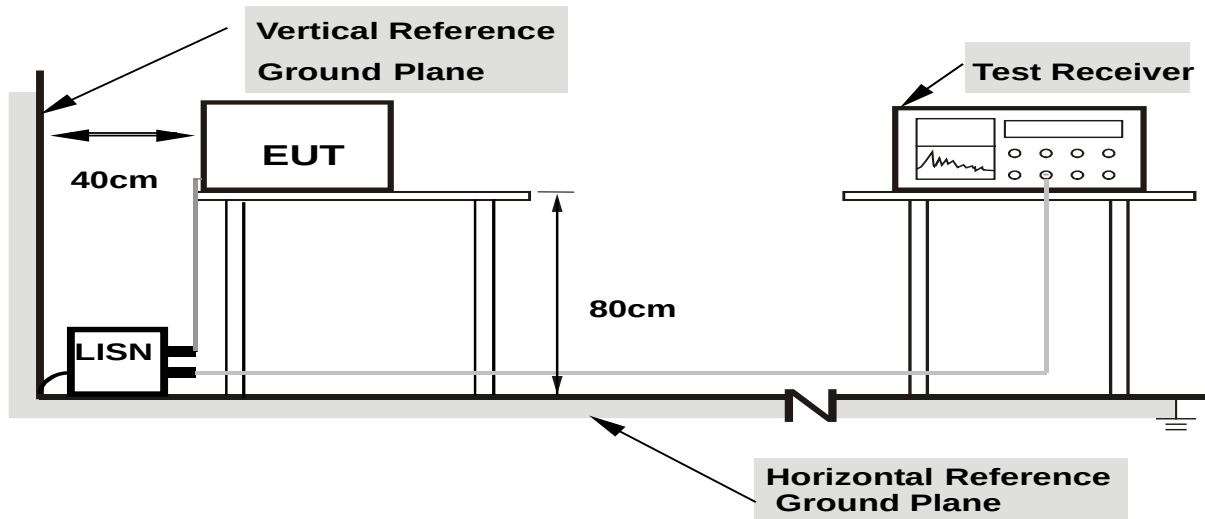
FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note

(1)The tighter limit applies at the band edges.

(2)The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

5.3.2 Test setup



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes



5.3.3 Test procedure

a. EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b. The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- e. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- f. LISN at least 80 cm from nearest part of EUT chassis.

For the actual test configuration, please refer to the related Item –EUT Test Photos.

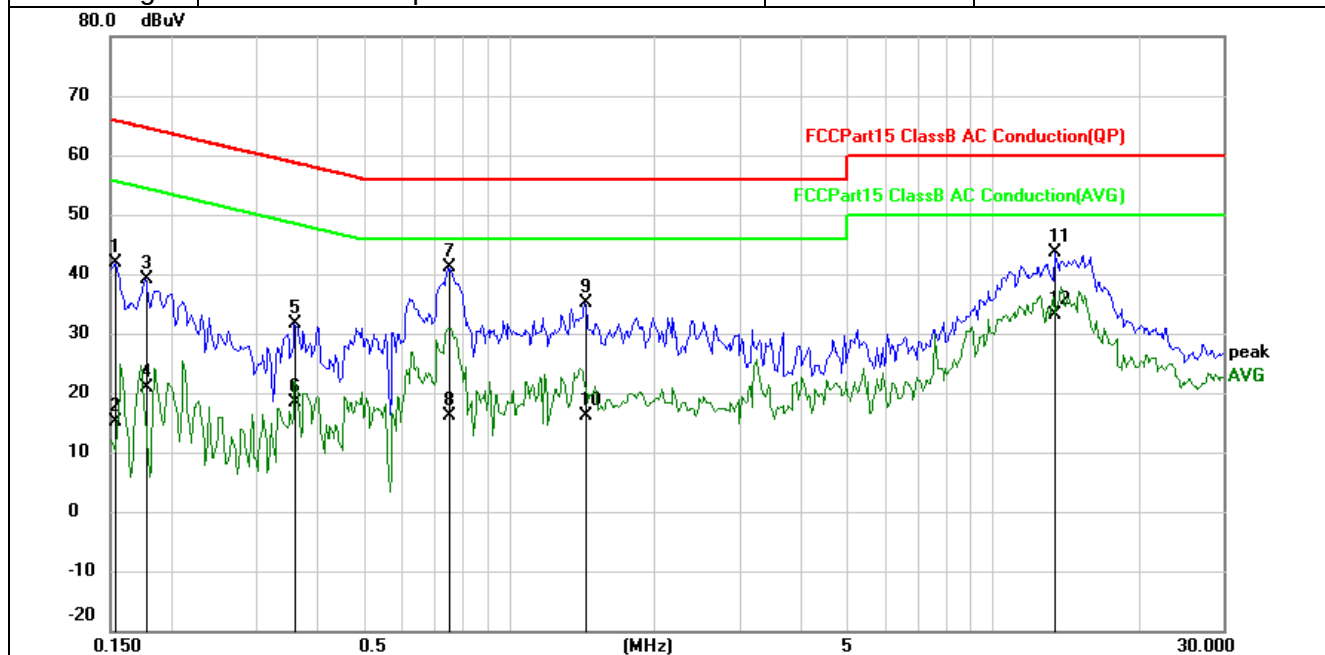


5.3.4 Test results

Note: All the mode has been tested for this test, the mode 11a CH36 is the worst mode. Just report the worst data.

Note1: Emission Level = Reading Level + Factor, Margin = Emission Level - Limit, Factor = LISN modulus + Cable Loss

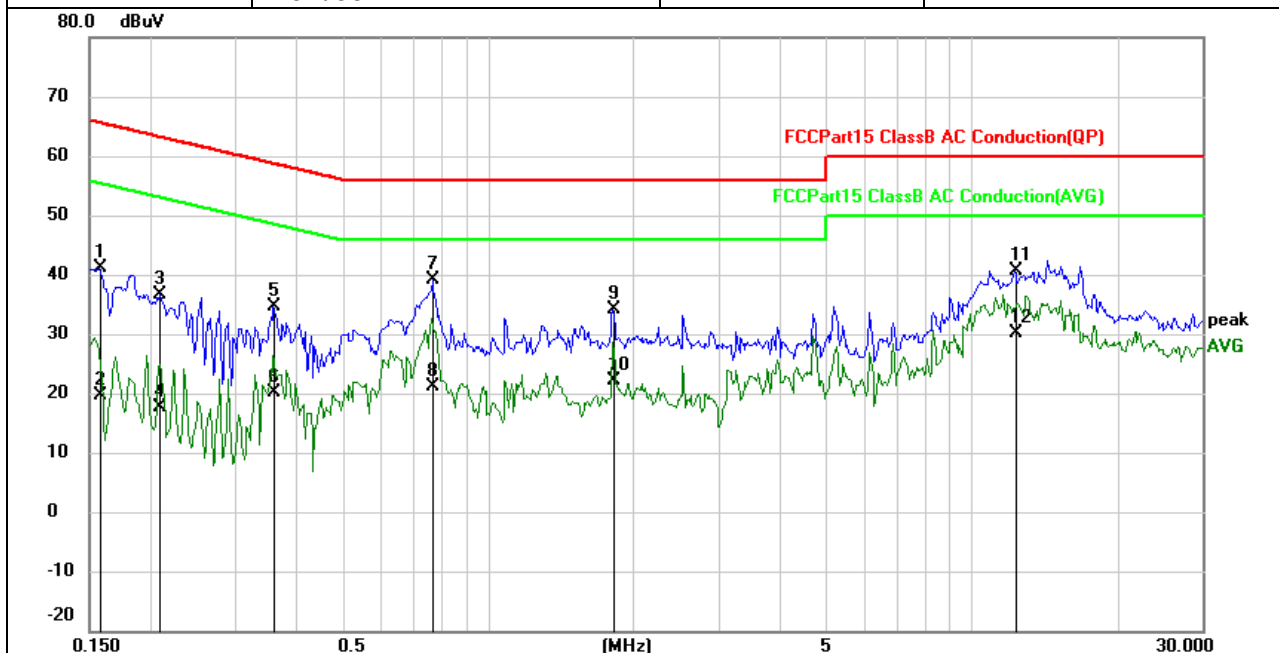
EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 5V from adapter AC 120V/60Hz	Test Mode:	TX



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1539	32.15	9.74	41.89	65.79	-23.90	QP
2		0.1539	5.35	9.74	15.09	55.79	-40.70	AVG
3		0.1773	29.45	9.74	39.19	64.61	-25.42	QP
4		0.1773	11.04	9.74	20.78	54.61	-33.83	AVG
5		0.3608	21.70	9.82	31.52	58.71	-27.19	QP
6		0.3608	8.52	9.82	18.34	48.71	-30.37	AVG
7	*	0.7476	31.17	9.96	41.13	56.00	-14.87	QP
8		0.7476	6.29	9.96	16.25	46.00	-29.75	AVG
9		1.4351	25.06	10.00	35.06	56.00	-20.94	QP
10		1.4351	6.10	10.00	16.10	46.00	-29.90	AVG
11		13.4296	33.31	10.30	43.61	60.00	-16.39	QP
12		13.4296	22.82	10.30	33.12	50.00	-16.88	AVG



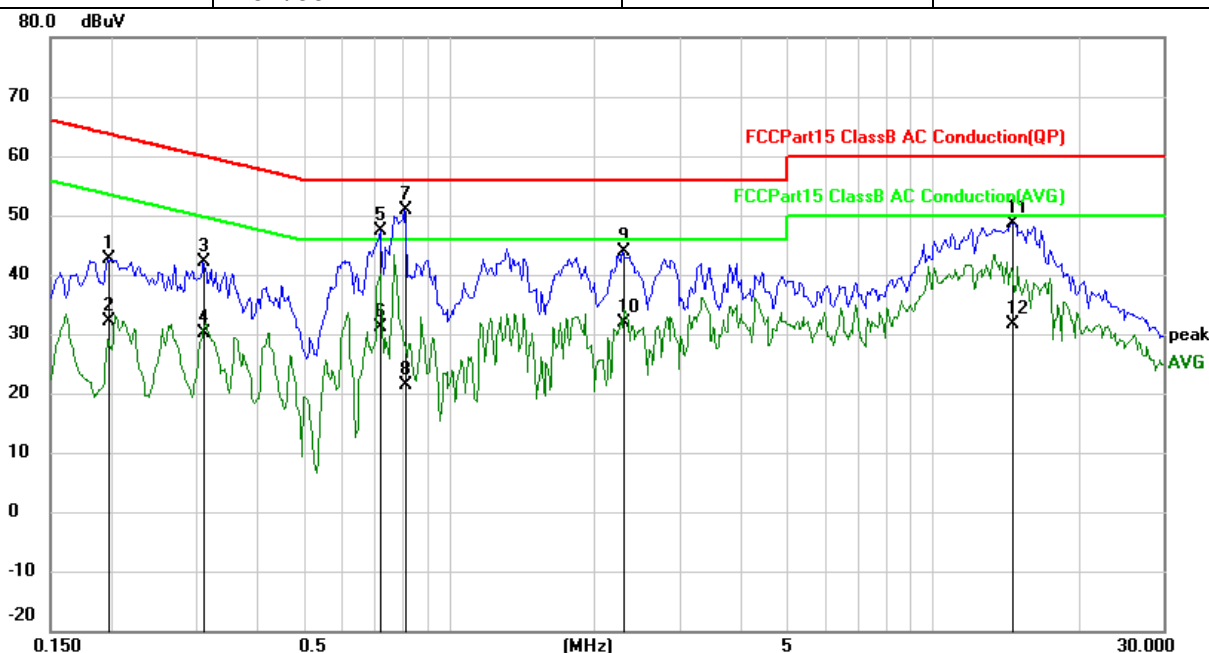
EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 5V from adapter AC 120V/60Hz	Test Mode:	TX



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1577	31.27	9.74	41.01	65.58	-24.57	QP
2		0.1577	9.84	9.74	19.58	55.58	-36.00	AVG
3		0.2094	26.85	9.74	36.59	63.23	-26.64	QP
4		0.2094	8.01	9.74	17.75	53.23	-35.48	AVG
5		0.3608	24.74	9.82	34.56	58.71	-24.15	QP
6		0.3608	10.19	9.82	20.01	48.71	-28.70	AVG
7	*	0.7671	29.05	9.96	39.01	56.00	-16.99	QP
8		0.7671	11.16	9.96	21.12	46.00	-24.88	AVG
9		1.8101	24.05	10.01	34.06	56.00	-21.94	QP
10		1.8101	12.07	10.01	22.08	46.00	-23.92	AVG
11		12.2577	30.33	10.31	40.64	60.00	-19.36	QP
12		12.2577	19.80	10.31	30.11	50.00	-19.89	AVG



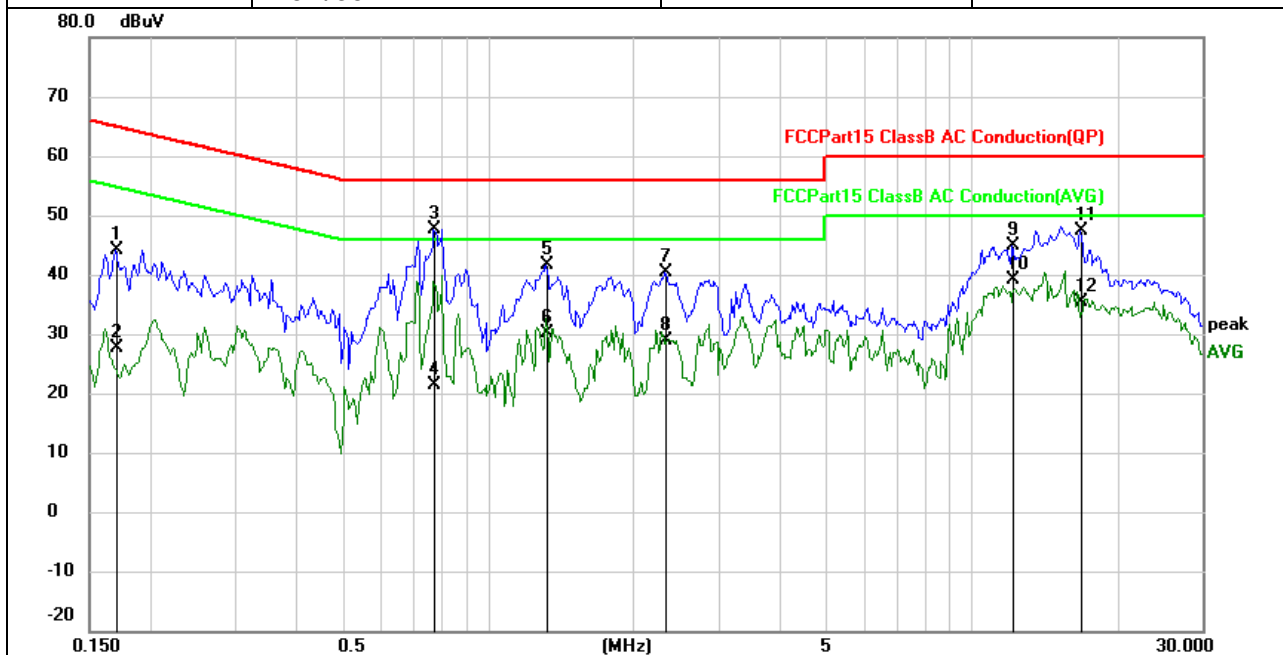
EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010hPa	Phase:	L
Test Voltage:	DC 5V from adapter AC 240V/60Hz	Test Mode:	TX



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1968	32.77	9.74	42.51	63.74	-21.23	QP
2		0.1968	22.42	9.74	32.16	53.74	-21.58	AVG
3		0.3100	32.26	9.79	42.05	59.97	-17.92	QP
4		0.3100	20.38	9.79	30.17	49.97	-19.80	AVG
5		0.7203	37.34	9.96	47.30	56.00	-8.70	QP
6		0.7203	21.06	9.96	31.02	46.00	-14.98	AVG
7	*	0.8101	40.80	9.97	50.77	56.00	-5.23	QP
8		0.8101	11.35	9.97	21.32	46.00	-24.68	AVG
9		2.2867	33.79	10.02	43.81	56.00	-12.19	QP
10		2.2867	21.82	10.02	31.84	46.00	-14.16	AVG
11		14.5625	38.37	10.29	48.66	60.00	-11.34	QP
12		14.5625	21.25	10.29	31.54	50.00	-18.46	AVG



EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010hPa	Phase:	N
Test Voltage:	DC 5V from adapter AC 240V/60Hz	Test Mode:	TX



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1695	34.35	9.74	44.09	64.98	-20.89	QP
2		0.1695	17.87	9.74	27.61	54.98	-27.37	AVG
3	*	0.7750	37.66	9.96	47.62	56.00	-8.38	QP
4		0.7750	11.33	9.96	21.29	46.00	-24.71	AVG
5		1.3179	31.68	10.00	41.68	56.00	-14.32	QP
6		1.3179	20.18	10.00	30.18	46.00	-15.82	AVG
7		2.3296	30.43	10.02	40.45	56.00	-15.55	QP
8		2.3296	18.91	10.02	28.93	46.00	-17.07	AVG
9		12.1240	34.69	10.31	45.00	60.00	-15.00	QP
10		12.1240	28.84	10.31	39.15	50.00	-10.85	AVG
11		16.7810	37.07	10.26	47.33	60.00	-12.67	QP
12		16.7810	25.13	10.26	35.39	50.00	-14.61	AVG



5.4 26dB Emission Bandwidth and Occupied bandwidth

5.4.1 Limit

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier

5.4.2 Test procedure

26d Emission bandwidth

Set RBW = approximately 1% of the emission bandwidth.

Set VBW $\geq 3 \times \text{RBW}$

Detector = Peak.

Trace mode = Max hold.

Measure the maximum width of the emission that is 26 dB down from the peak of the emission.

Occupied Bandwidth

Set Span = 1.5 times to 5.0 times the OBW

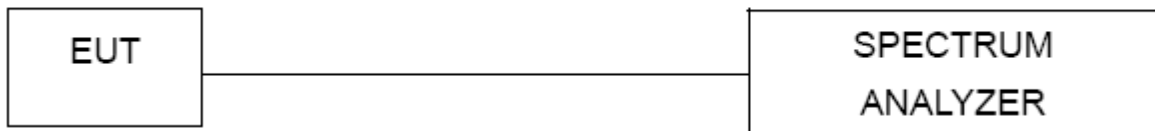
Set RBW = 1% to 5% of the OBW.

Set VBW $\geq 3 \times \text{RBW}$, Detector = Peak.

Trace mode = Max hold.

Use the 99% power bandwidth function of the instrument.

5.4.3 Test setup



5.4.4 Test results

For U-NII-1

Channel	Test Channel	Frequency(MHz)	26dB bandwidth(MHz)	99% bandwidth	Limit(kHz)	Result
11a	CH36	5180	19.56	16.452	/	Pass
11a	CH40	5200	19.48	16.449	/	Pass
11a	CH48	5240	19.56	16.474	/	Pass
11n (HT20)	CH36	5180	19.34	17.600	/	Pass
11n (HT20)	CH40	5200	19.51	17.611	/	Pass
11n (HT20)	CH48	5240	21.30	17.641	/	Pass
11n (HT40)	CH38	5190	54.01	36.004	/	Pass
11n (HT40)	CH46	5230	54.04	36.076	/	Pass

Channel	Test Channel	Frequency(MHz)	26dB bandwidth(MHz)	99% bandwidth	Limit(kHz)	Result
11ac (HT20)	CH36	5180	19.48	17.606	/	Pass
11ac (HT20)	CH40	5200	19.60	17.607	/	Pass
11ac (HT20)	CH48	5240	20.12	17.640	/	Pass
11ac (HT40)	CH38	5190	54.02	36.001	/	Pass
11ac (HT40)	CH46	5230	48.85	36.078	/	Pass
11ac (HT80)	CH42	5210	78.07	75.263	/	Pass

For U-NII-2A

Channel	Test Channel	Frequency(MHz)	26dB bandwidth(MHz)	99% bandwidth	Limit(kHz)	Result
11a	CH52	5260	23.40	17.131	/	Pass
11a	CH56	5280	27.13	17.284	/	Pass
11a	CH64	5320	30.65	17.360	/	Pass
11n (HT20)	CH52	5260	25.30	18.026	/	Pass
11n (HT20)	CH56	5280	27.31	18.074	/	Pass
11n (HT20)	CH64	5320	31.99	18.139	/	Pass
11n (HT40)	CH54	5270	62.18	36.621	/	Pass
11n (HT40)	CH62	5310	73.37	36.778	/	Pass

Channel	Test Channel	Frequency(MHz)	26dB bandwidth(MHz)	99% bandwidth h	Limit(kHz)	Result
11ac (VHT20)	CH52	5260	25.13	17.986	/	Pass
11ac (VHT20)	CH56	5280	32.71	18.101	/	Pass
11ac (VHT20)	CH64	5320	30.42	18.252	/	Pass
11ac (VHT40)	CH54	5270	62.79	36.705	/	Pass
11ac (VHT40)	CH62	5310	69.73	36.840	/	Pass
11ac (VHT80)	CH58	5290	81.16	75.210	/	Pass



For U-NII-2C

Channel	Test Channel	Frequency(MHz)	26dB bandwidth(MHz)	99% bandwidth	Limit(kHz)	Result
11a	CH100	5500	34.06	18.729	/	Pass
11a	CH120	5600	32.66	17.958	/	Pass
11a	CH140	5700	31.63	17.597	/	Pass
11n (HT20)	CH100	5500	33.39	18.752	/	Pass
11n (HT20)	CH120	5600	36.50	18.545	/	Pass
11n (HT20)	CH140	5700	34.16	18.345	/	Pass
11n (HT40)	CH102	5510	75.47	38.112	/	Pass
11n (HT40)	CH118	5590	76.05	38.508	/	Pass
11n (HT40)	CH134	5670	75.41	37.965	/	Pass

Channel	Test Channel	Frequency(MHz)	26dB bandwidth(MHz)	99% bandwidth	Limit(kHz)	Result
11ac (VHT20)	CH100	5500	35.05	18.775	/	Pass
11ac (VHT20)	CH120	5600	37.07	18.765	/	Pass
11ac (VHT20)	CH140	5700	36.04	18.365	/	Pass
11n (VHT40)	CH102	5510	78.86	38.416	/	Pass
11n (VHT40)	CH118	5590	75.87	37.964	/	Pass
11n (VHT40)	CH134	5670	76.40	37.862	/	Pass
11ac (VHT80)	CH106	5530	81.92	75.255	/	Pass

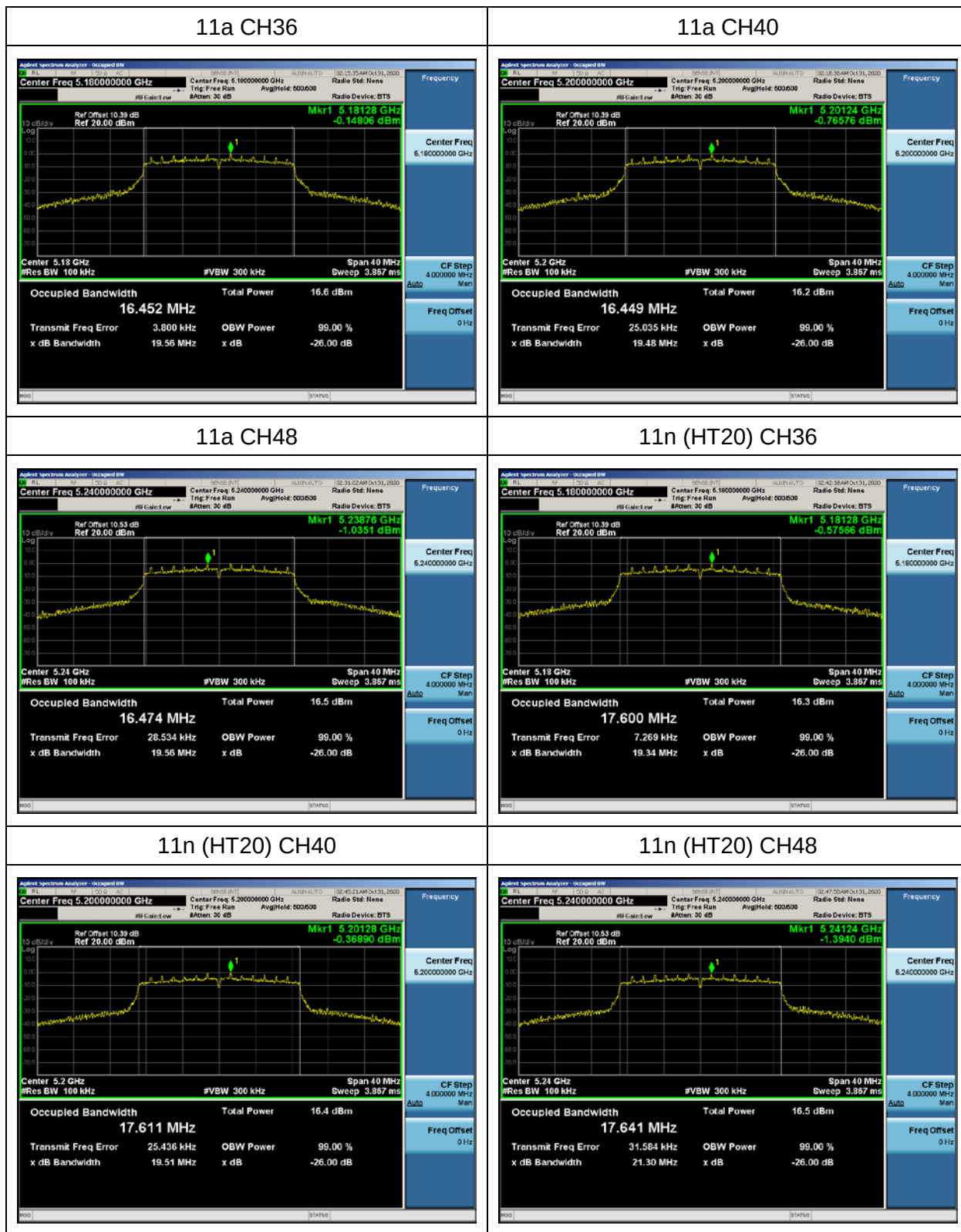
For U-NII-3

Channel	Test Channel	Frequency(MHz)	99% bandwidth	Limit(kHz)	Result
11a	CH149	5745	17.301	/	Pass
11a	CH157	5785	17.188	/	Pass
11a	CH165	5825	17.230	/	Pass
11n (HT20)	CH149	5745	18.182	/	Pass
11n (HT20)	CH157	5785	18.109	/	Pass
11n (HT20)	CH165	5825	18.133	/	Pass
11n (HT40)	CH151	5755	36.961	/	Pass
11n (HT40)	CH159	5795	36.943	/	Pass

Channel	Test Channel	Frequency(MHz)	99% bandwidth	Limit(kHz)	Result
11ac (HT20)	CH149	5745	18.111	/	Pass
11ac (HT20)	CH157	5785	18.123	/	Pass
11ac (HT20)	CH165	5825	18.138	/	Pass
11ac (HT40)	CH151	5755	37.077	/	Pass
11ac (HT40)	CH159	5795	36.943	/	Pass
11ac (HT80)	CH155	5775	75.195	/	Pass

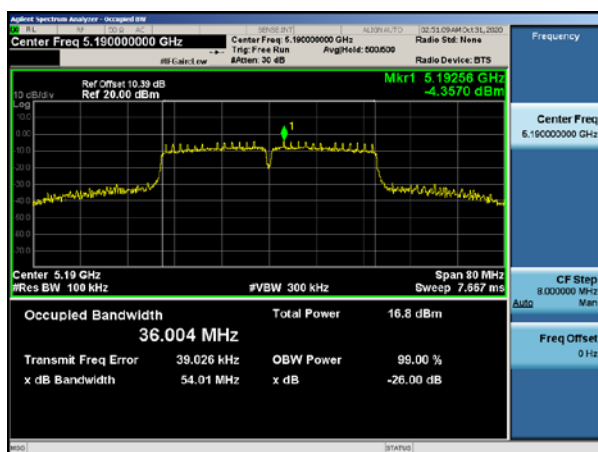


Test plots:
For U-NII-1

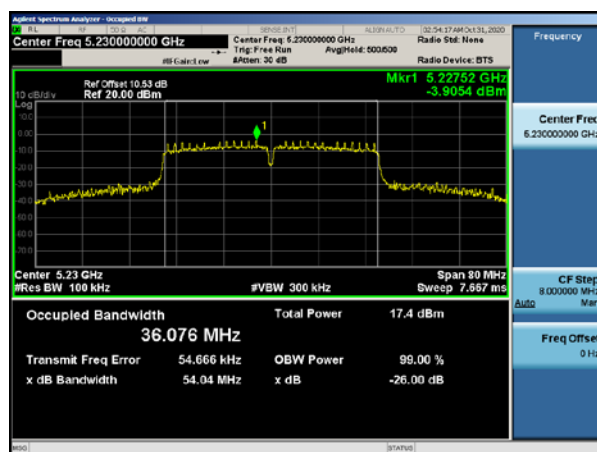




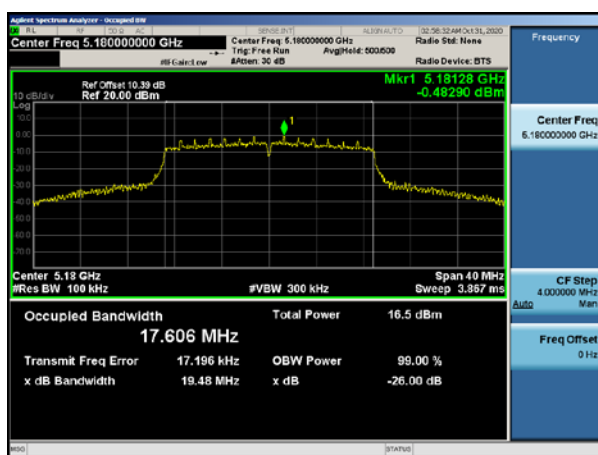
11n (HT40) CH38



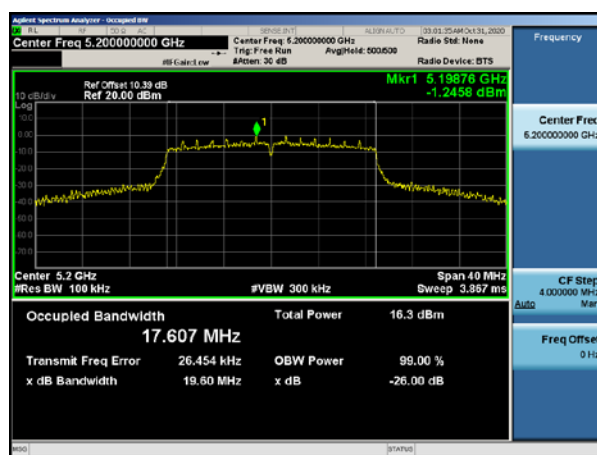
11n (HT40) CH46



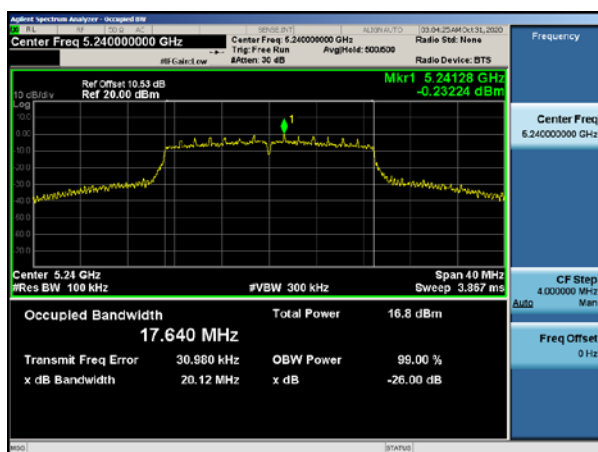
11ac (HT20) CH36



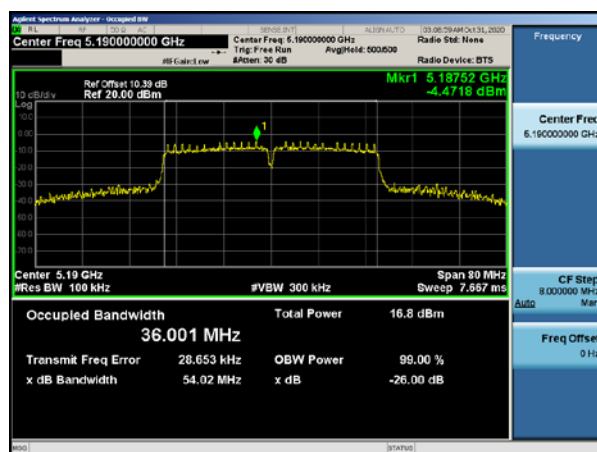
11ac (HT20) CH40



11ac (HT20) CH48

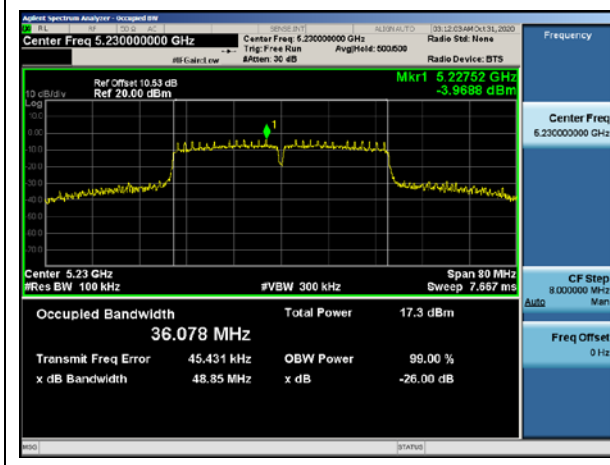


11ac (HT40) CH38

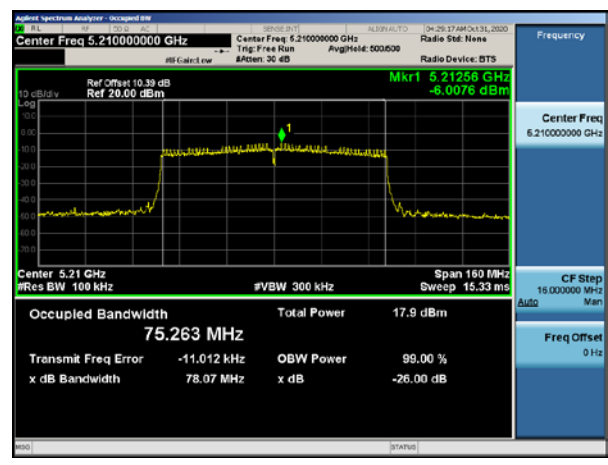




11ac (HT40) CH46

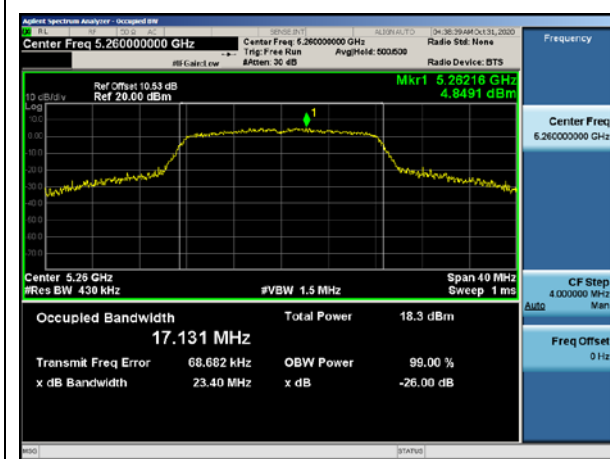


11ac (HT80) CH42

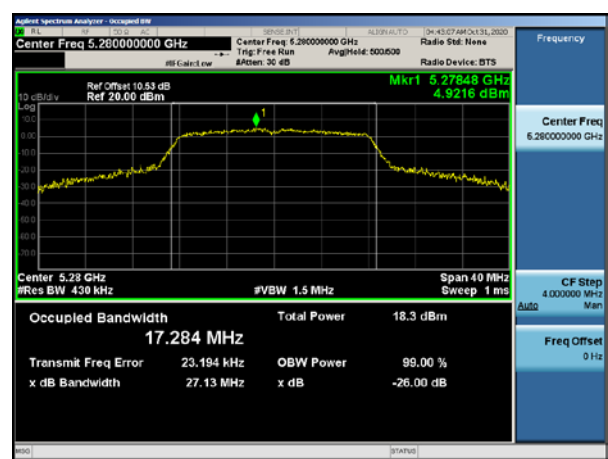


For U-NII-2A

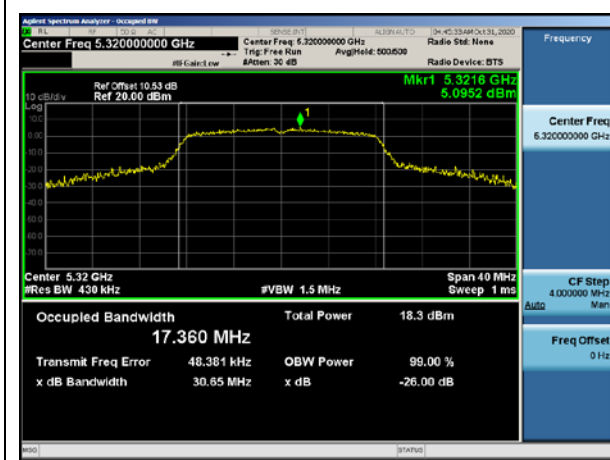
11a CH52 5260



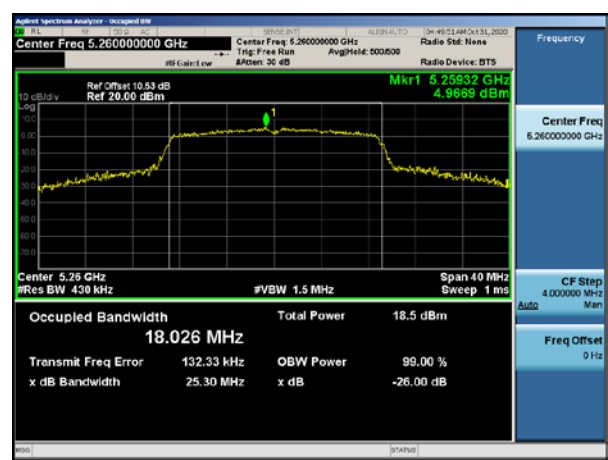
11a CH56 5280



11a CH64 5320

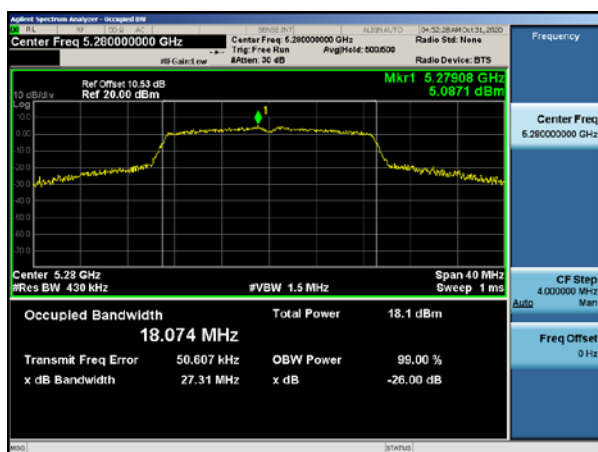


11n (HT20) CH52 5260

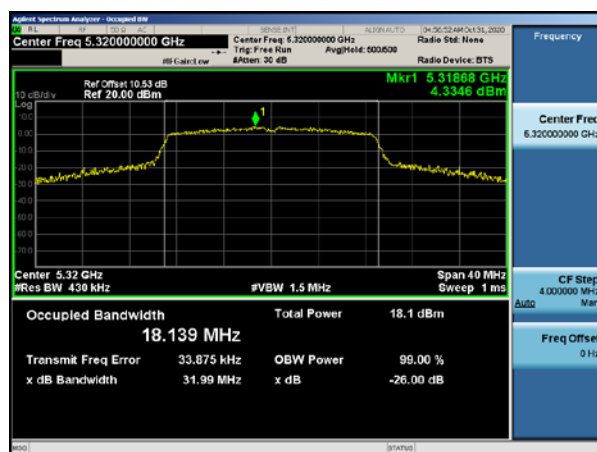




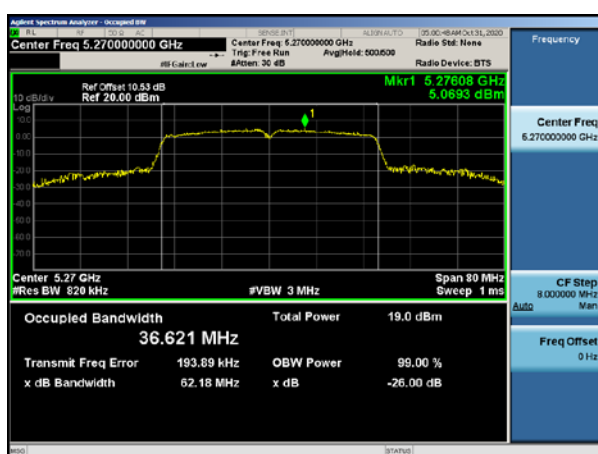
11n (HT20) CH56 5280



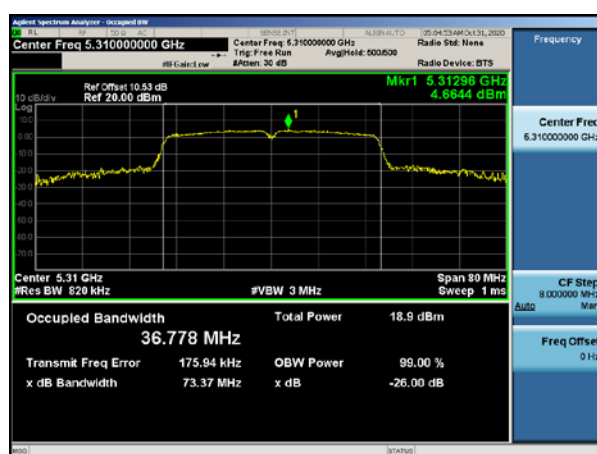
11n (HT20) CH64 5320



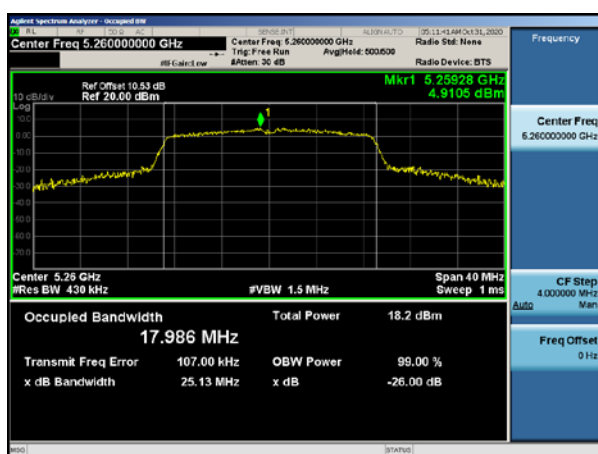
11n (HT40) CH54 5270



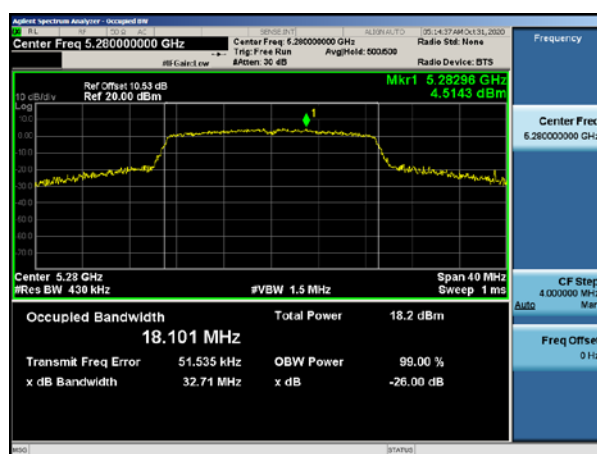
11n (HT40) CH62 5310



11ac (VHT20) CH52 5260

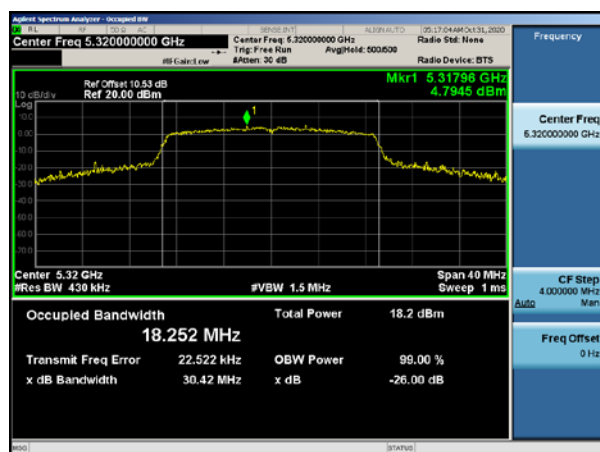


11ac (VHT20) CH56 5280

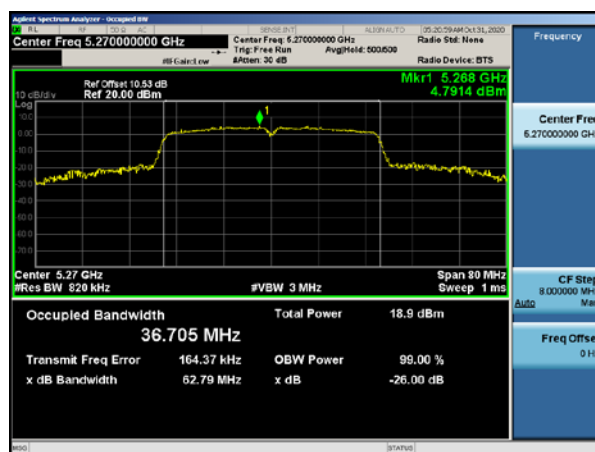




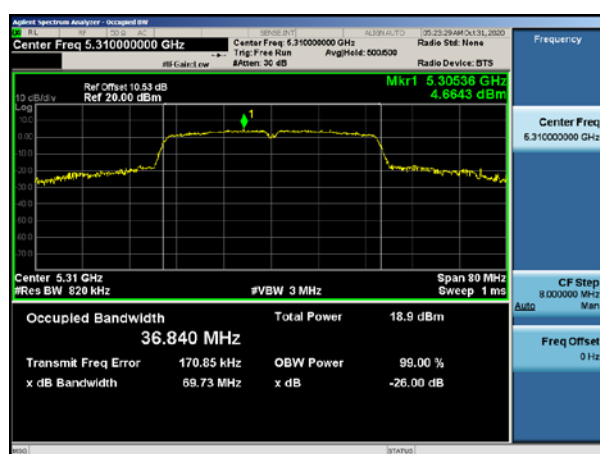
11ac (VHT20) CH64 5320



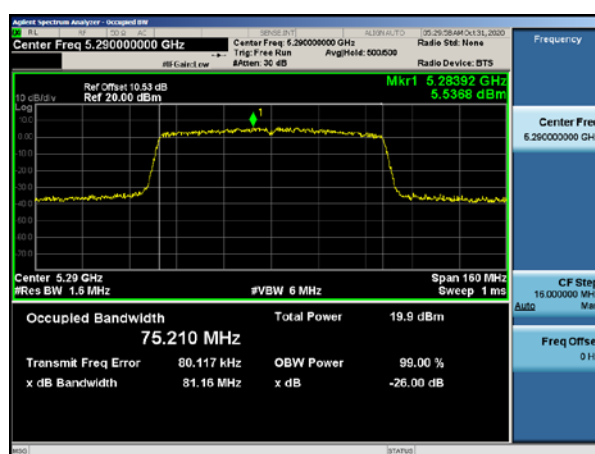
11ac (VHT40) CH54 5270



11ac (VHT40) CH62 5310



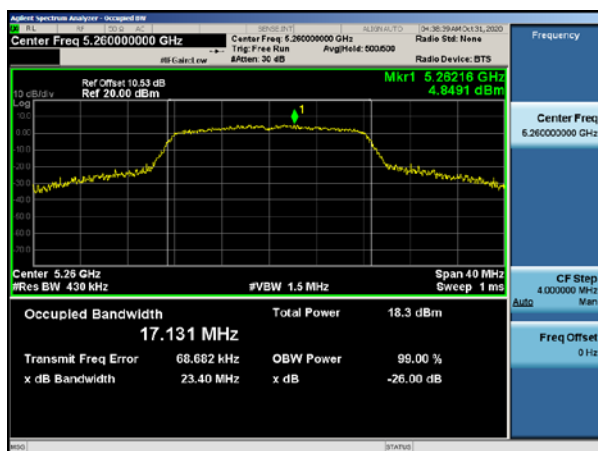
11ac (VHT80) CH58 5290



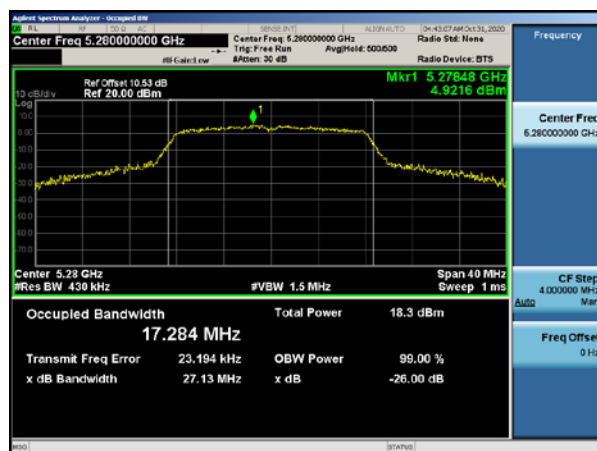


For U-NII-2C

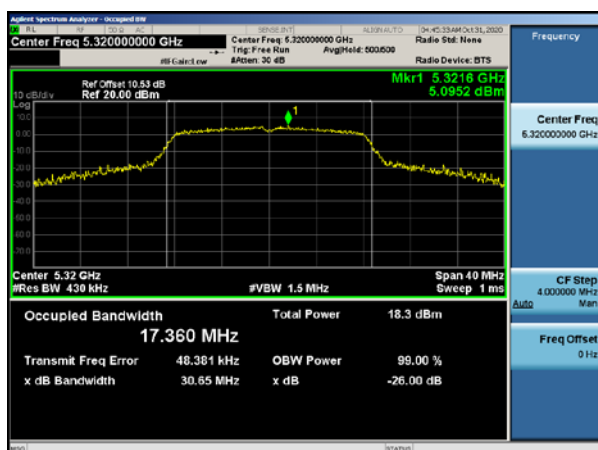
11a CH100 5500



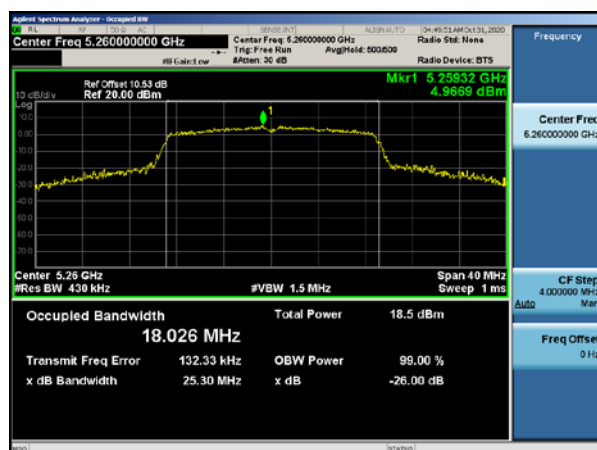
11a CH120 5600



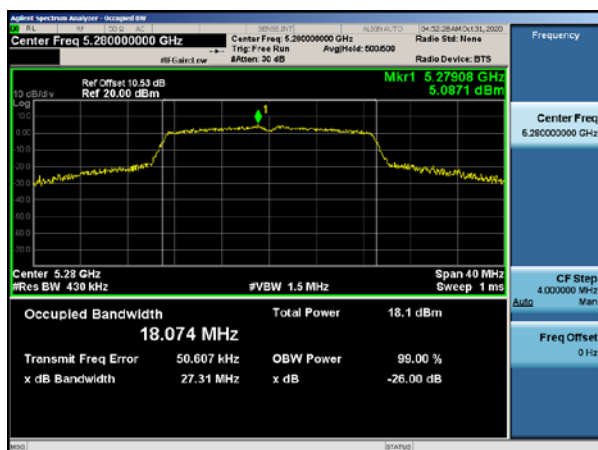
11a CH140 5700



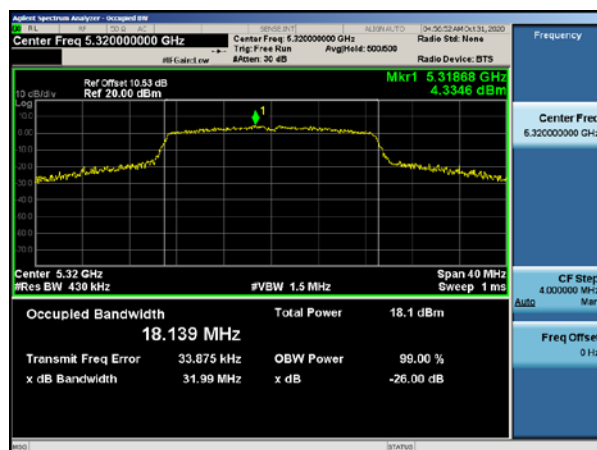
11n (HT20) CH100 5500



11n (HT20) CH120 5600

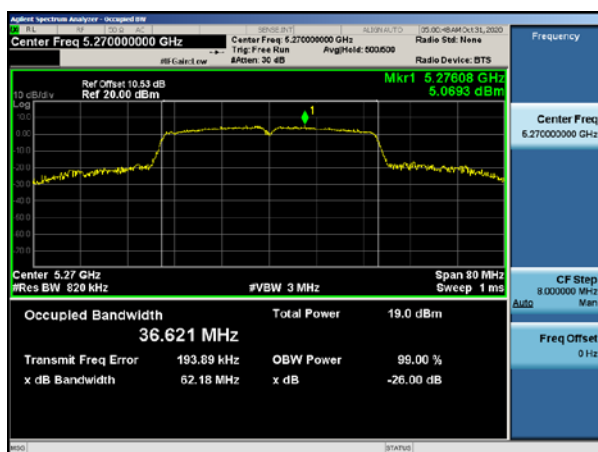


11n (HT20) CH140 5700

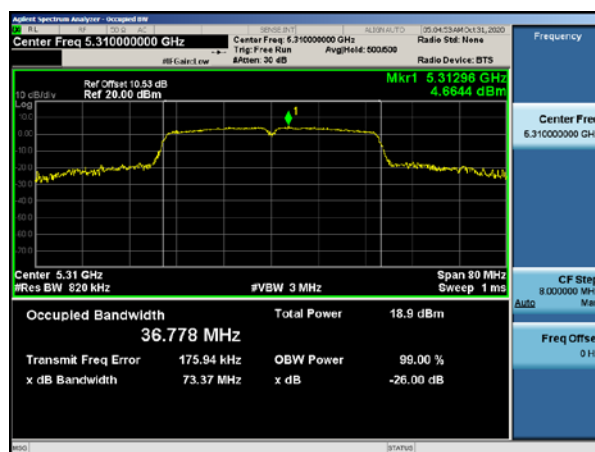




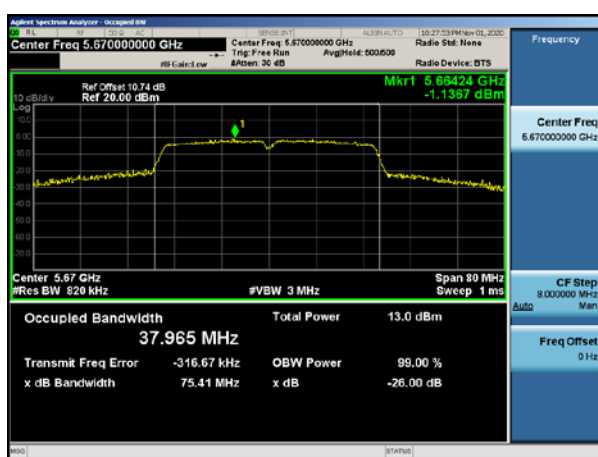
11n (HT40) CH102 5510



11n (HT40) CH118 5590



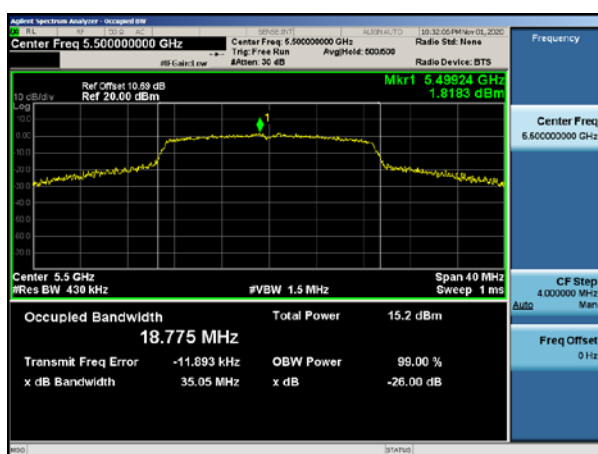
11n (HT40) CH134 5670



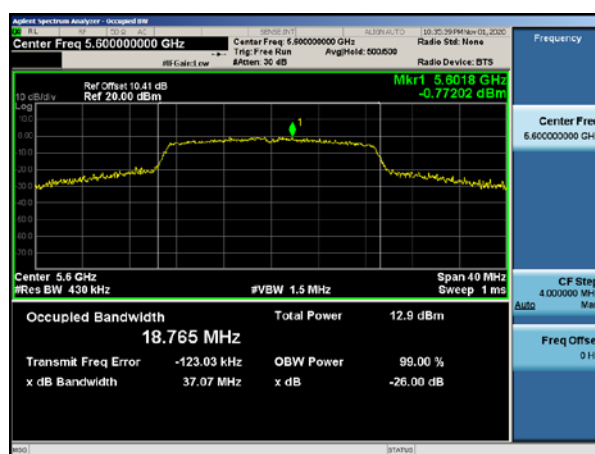
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/

11ac (VHT20) CH100 5500

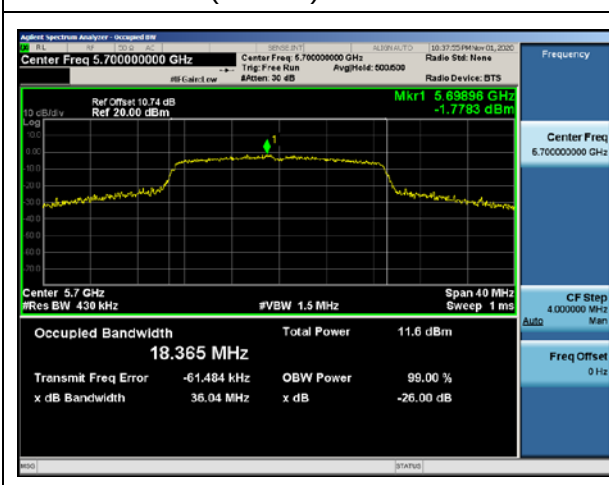


11ac (VHT20) CH120 5600

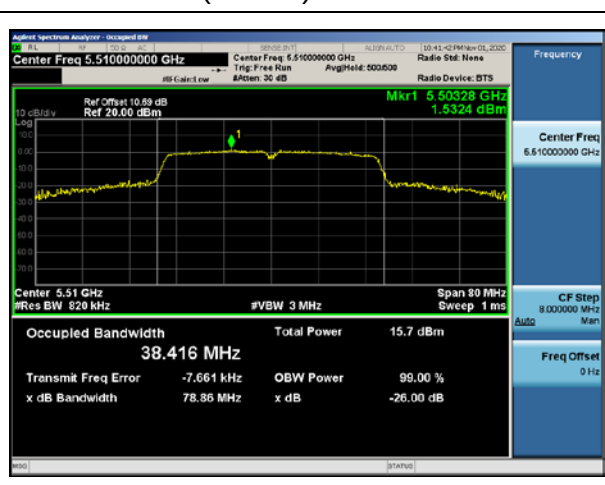




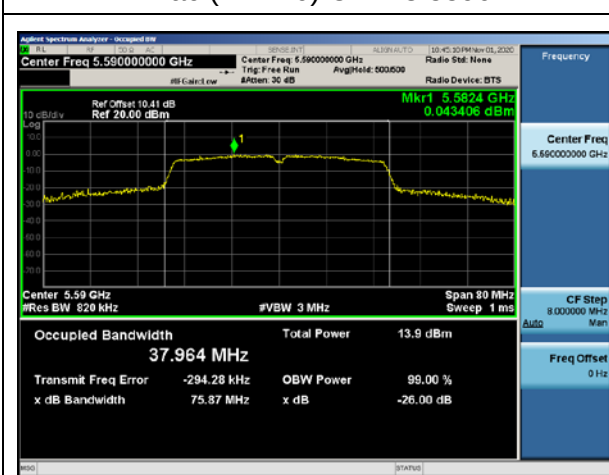
11ac (VHT20) CH140 5700



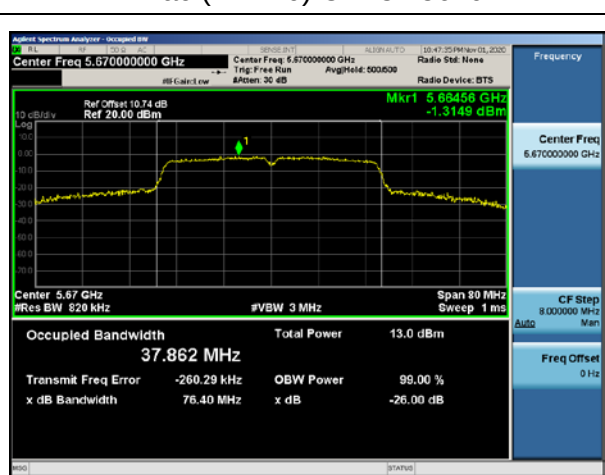
11ac (VHT40) CH102 5510



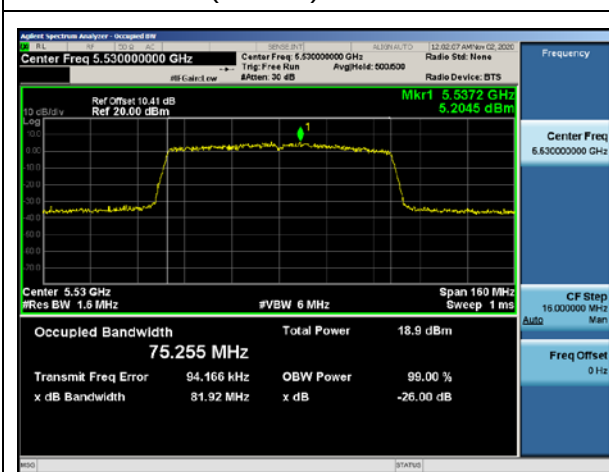
11ac (VHT40) CH118 5590



11ac (VHT40) CH134 5670



11ac (VHT80) CH106 5530

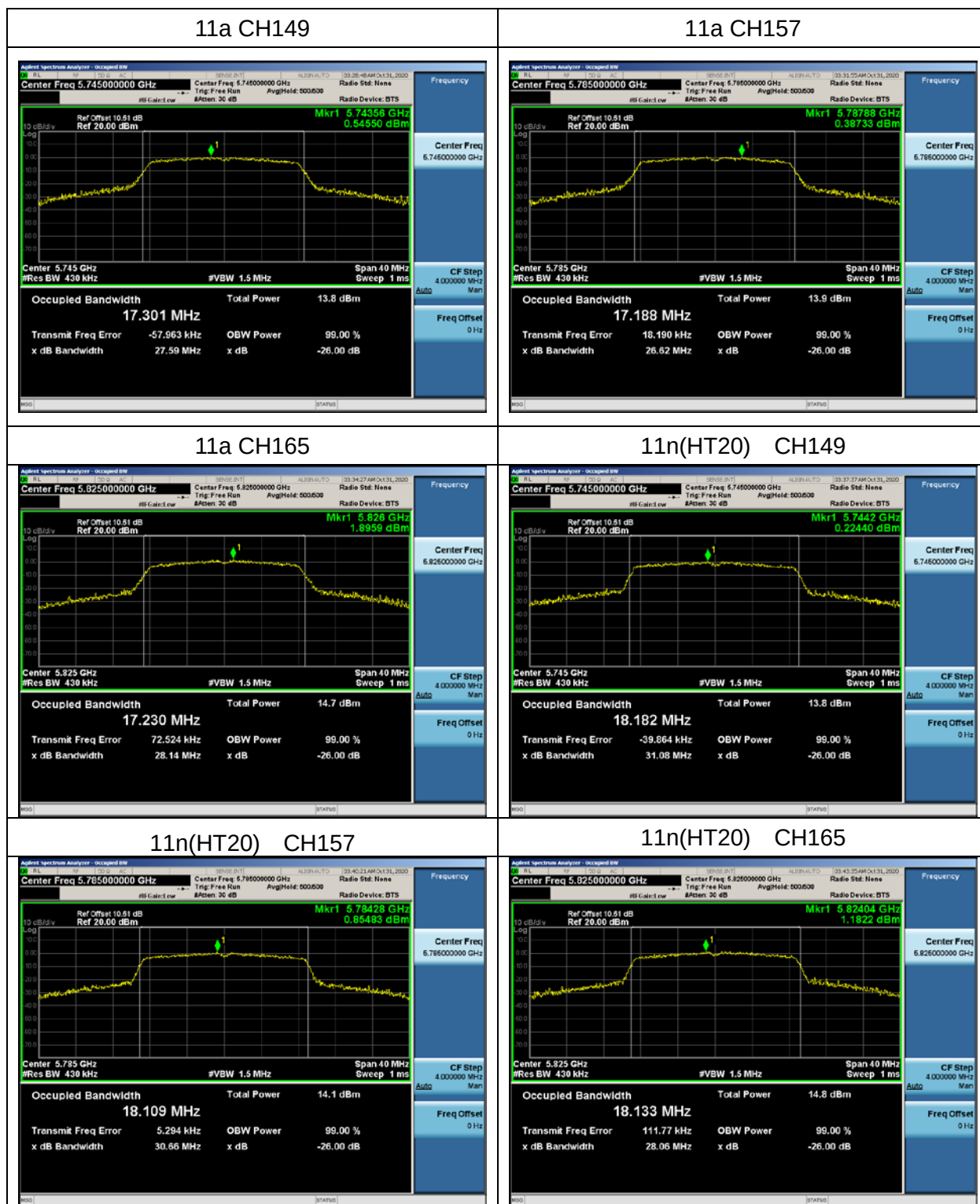


/

/

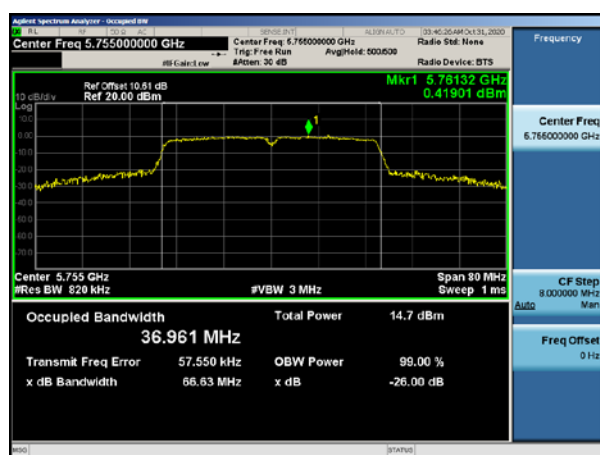


For U-NII-3

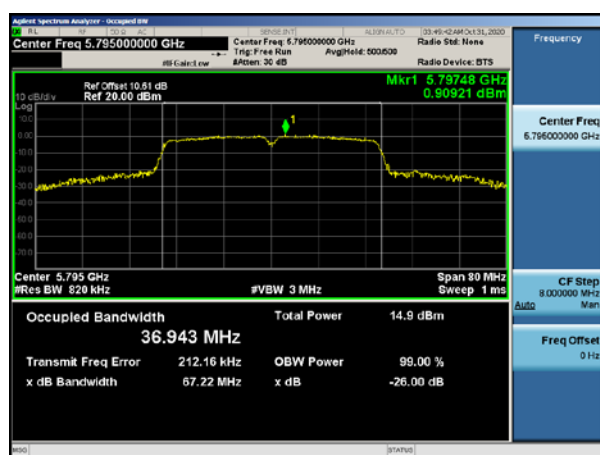




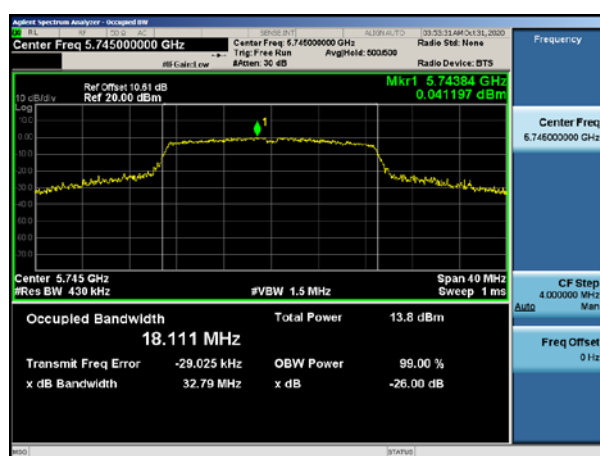
11n (HT40) CH151



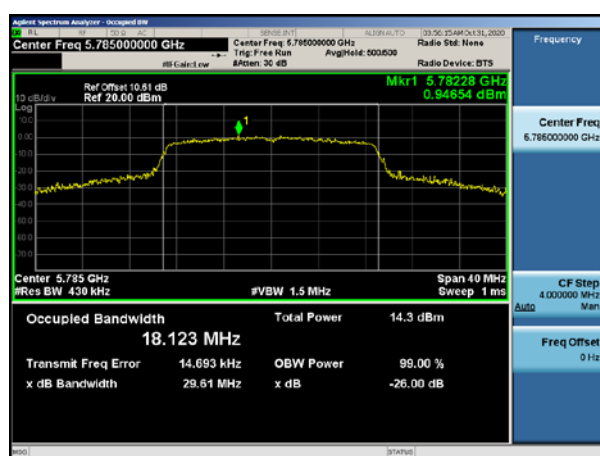
11n (HT40) CH159

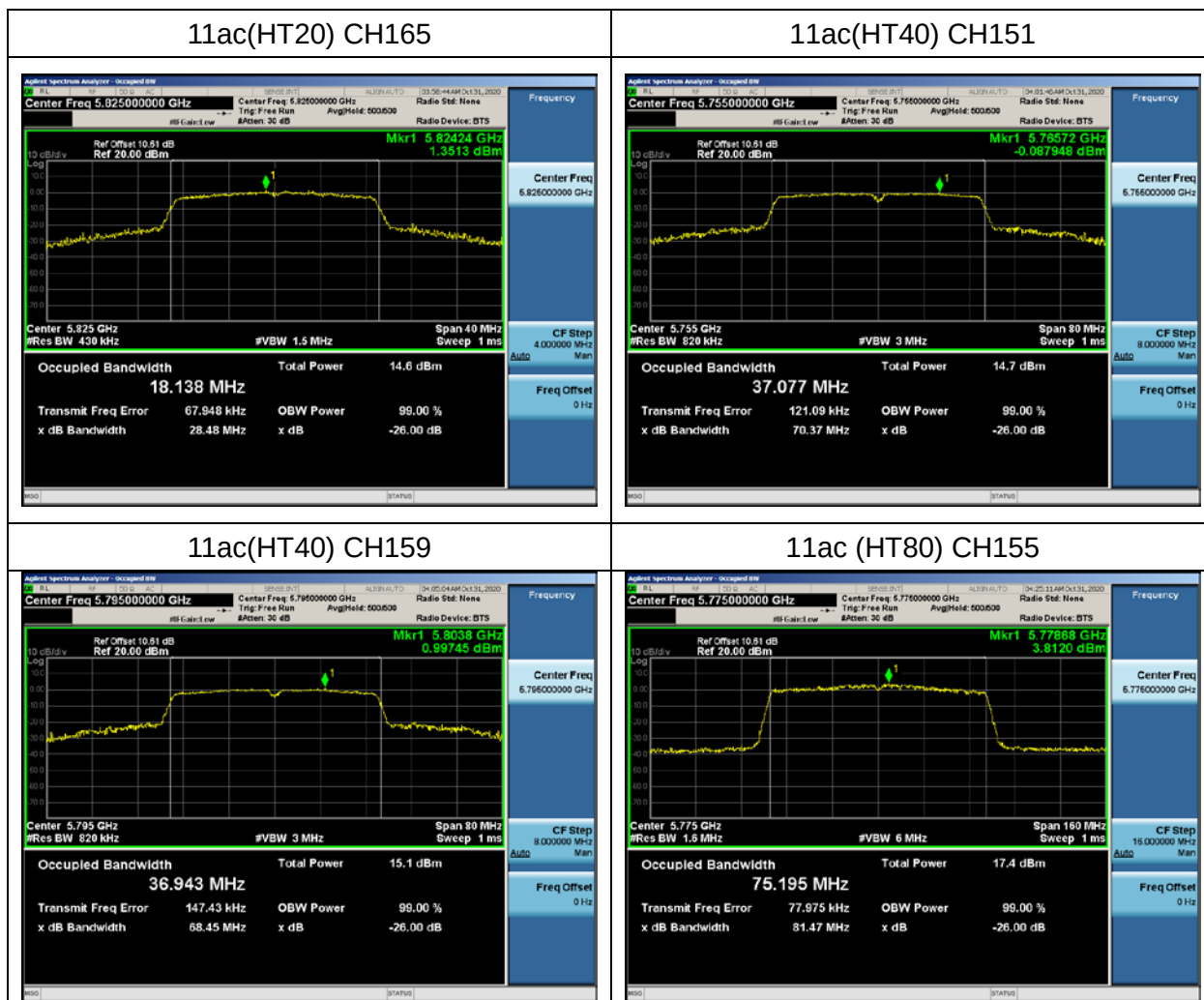


11ac (HT20) CH149



11ac (HT20) CH157





5.5 6dB Bandwidth

5.5.1 Limit

For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier

5.5.2 Test procedure

1. Set RBW= 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

5.5.3 Test setup



5.5.4 Test results



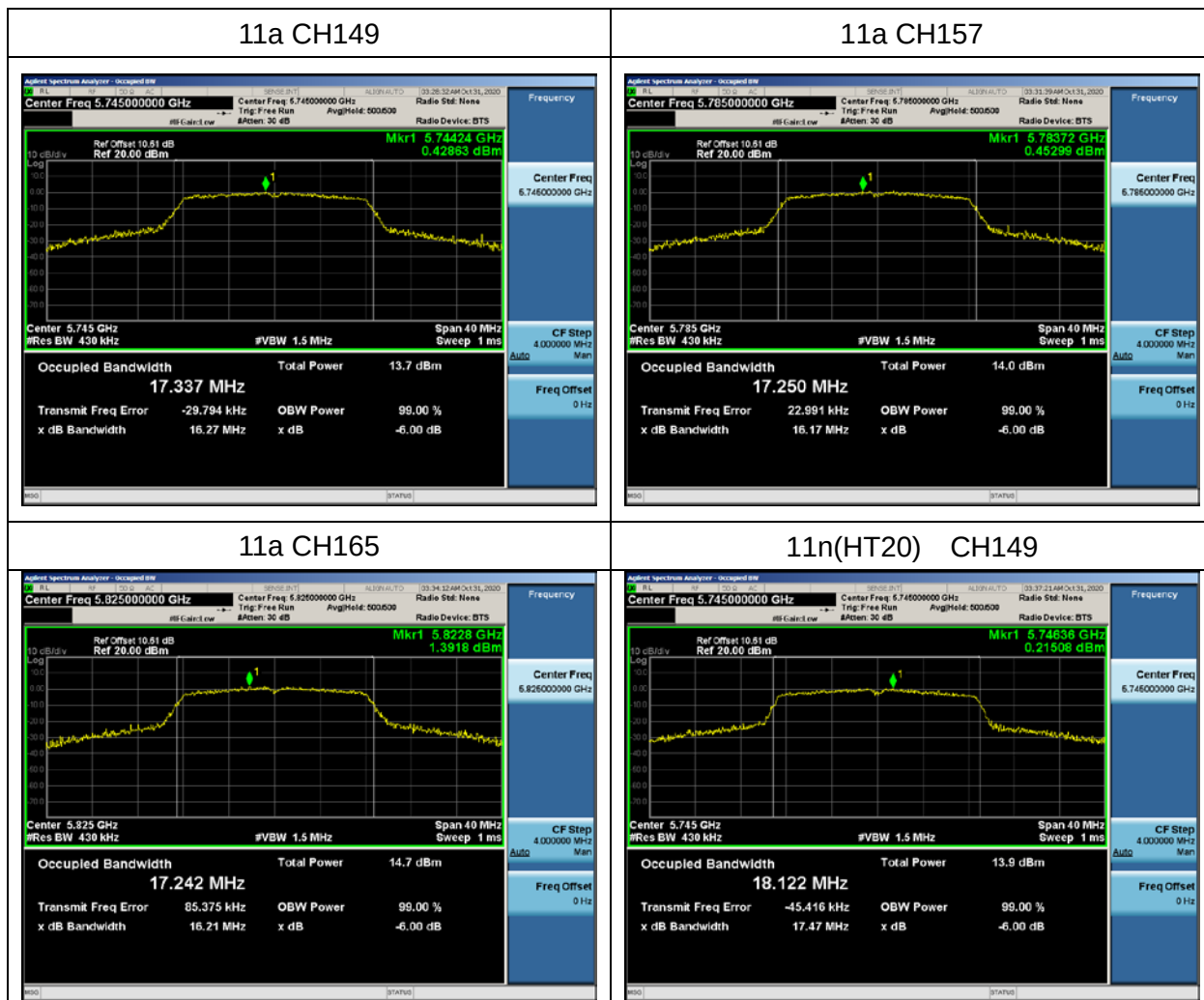
For U-NII-3

Channel	Test Channel	Frequency(MHz)	6dB bandwidth(MHz)	Limit(kHz)	Result
11a	CH149	5745	16.27	500	Pass
11a	CH157	5785	16.17	500	Pass
11a	CH165	5825	16.21	500	Pass
11n (HT20)	CH149	5745	17.47	500	Pass
11n (HT20)	CH157	5785	17.45	500	Pass
11n (HT20)	CH165	5825	17.45	500	Pass
11n (HT40)	CH151	5755	36.26	500	Pass
11n (HT40)	CH159	5795	36.19	500	Pass

Channel	Test Channel	Frequency(MHz)	6dB bandwidth(MHz)	Limit(kHz)	Result
11ac (HT20)	CH149	5745	17.41	500	Pass
11ac (HT20)	CH157	5785	17.46	500	Pass
11ac (HT20)	CH165	5825	17.32	500	Pass
11ac (HT40)	CH151	5755	36.38	500	Pass
11ac (HT40)	CH159	5795	36.04	500	Pass
11ac (HT80)	CH155	5775	75.16	500	Pass

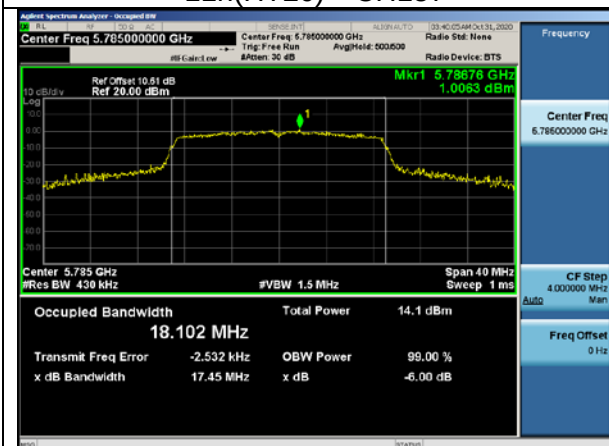


Test plots:
For U-NII-3

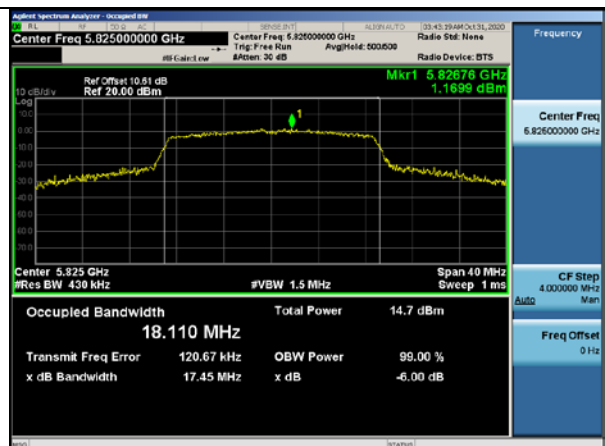




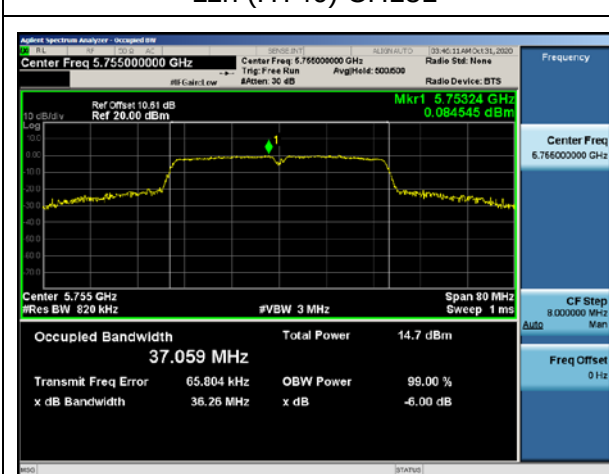
11n(HT20) CH157



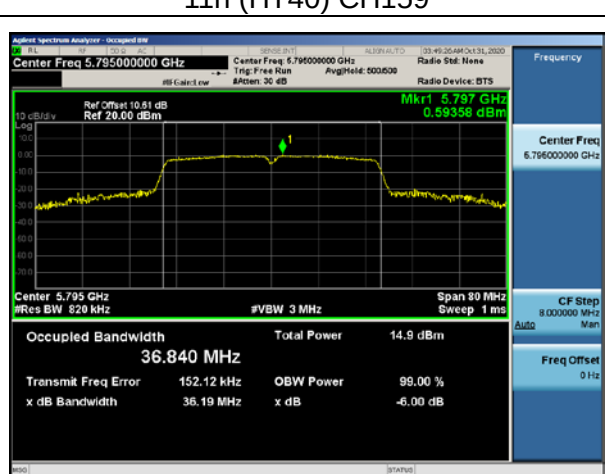
11n(HT20) CH165



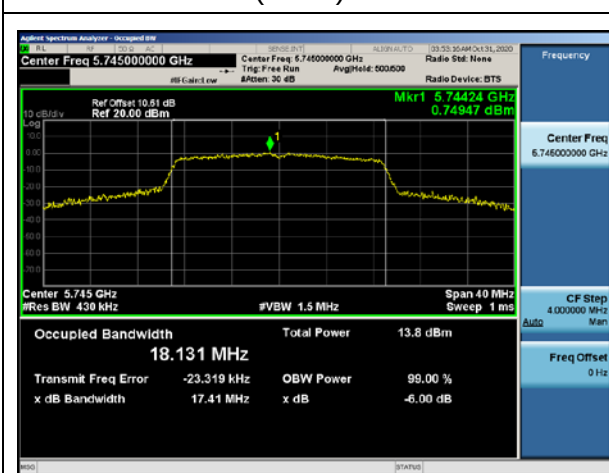
11n (HT40) CH151



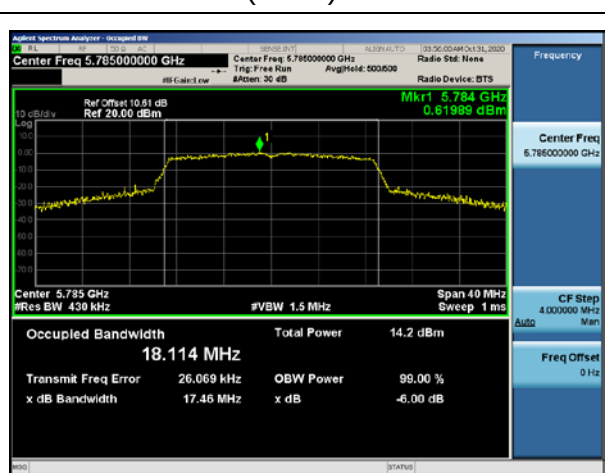
11n (HT40) CH159



11ac (HT20) CH149

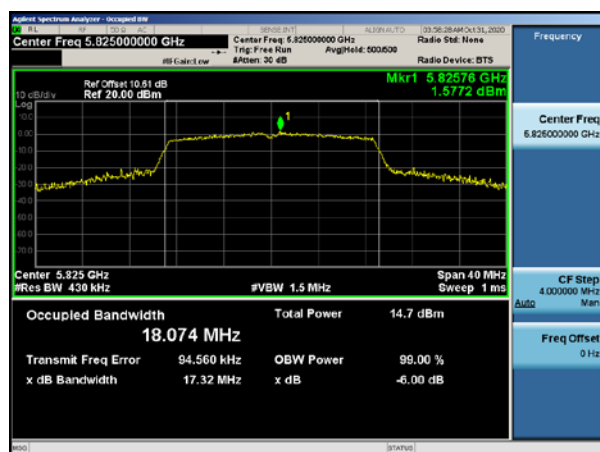


11ac (HT20) CH157

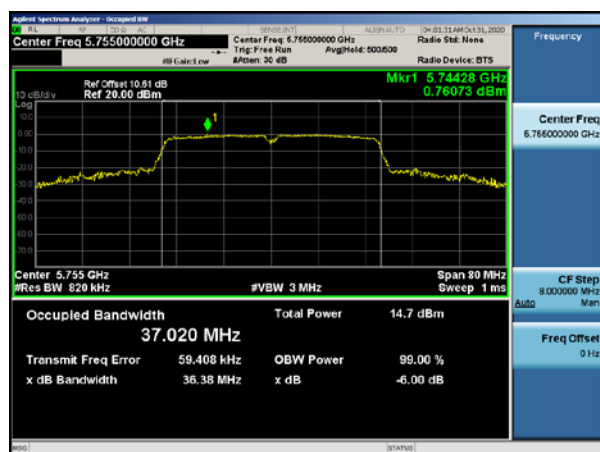




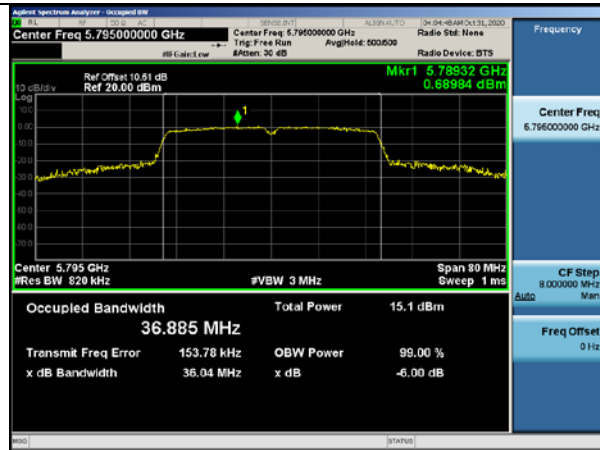
11ac(HT20) CH165



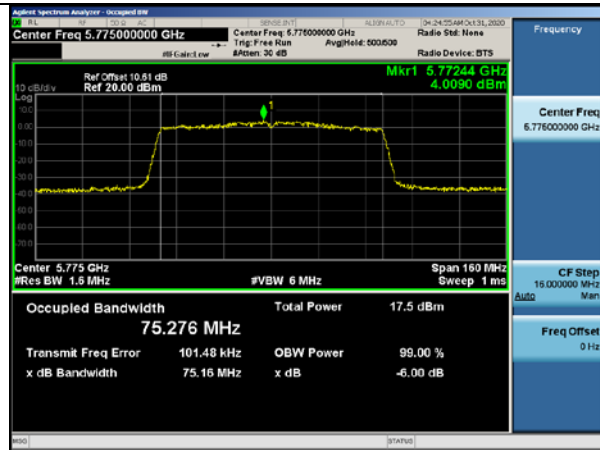
11ac(HT40) CH151



11ac(HT40) CH159



11ac(HT80) CH155





5.6 Radiated spurious emission

5.6.1 Radiated Emission Limits

- (1) For transmitters operating in the 5.15-5.25 GHz band:
All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band:
All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band:
All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band:

(i) 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.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020



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

Frequency Range	RBW	VBW	Measurement
30MHz-1GHz	1MHz	3MHz	Peak
Above 1GHz	1MHz	10Hz ^{Note1}	Average
	1MHz	>1/T ^{Note2}	Average
Note1	When duty cycle is no less than 98%		
Note2	When duty cycle is less than 98%		

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.6.2 Test procedure

The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.

The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

For emission measurements above 1 GHz, the EUT shall be placed at a height of 1.5 m above the floor on a support that is RF transparent for the frequencies of interest. Final measurements for the EUT require a measurement antenna height scan of 1 m to 4 m.

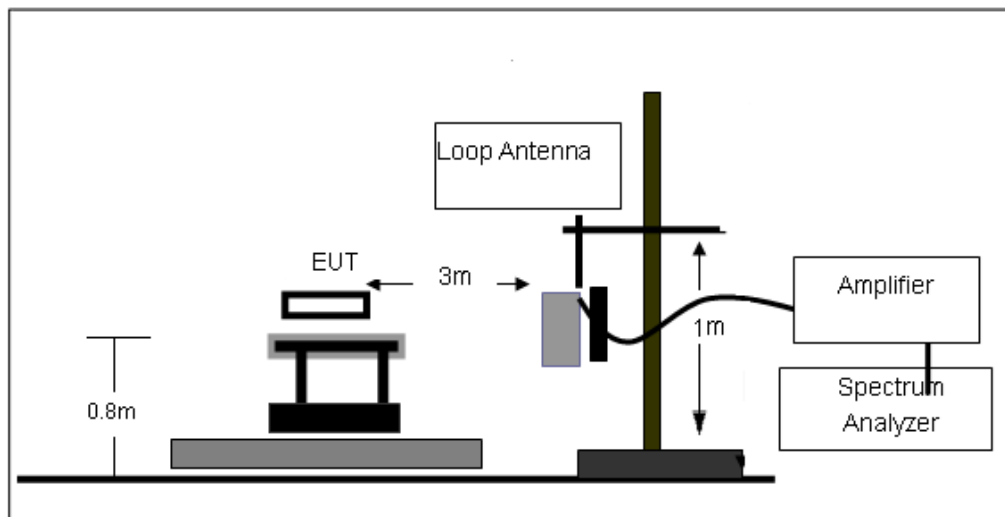
The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed. For the actual test configuration, please refer to the related Item –EUT Test Photos.

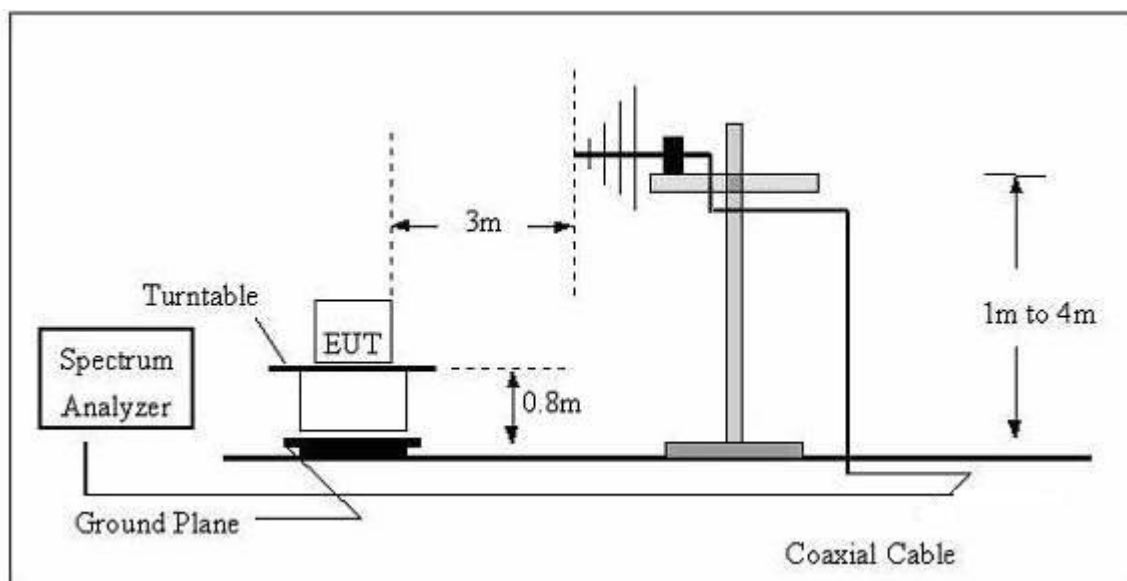
Note: Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.6.3 Test setup

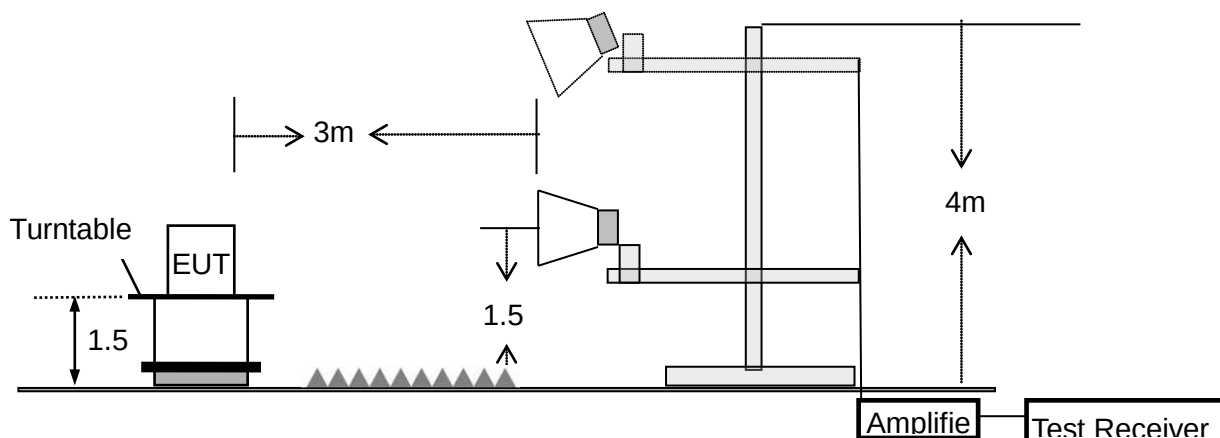
(A) Radiated Emission test-up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz





5.6.4 Test results

EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010 hPa	Test Voltage:	DC 5V from adapter AC 120V/60Hz
Test Mode:	TX	Polarization:	--

Below 30MHz

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note1: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Note2: Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB); Limit line = specific limits (dBuV) + distance extrapolation factor.



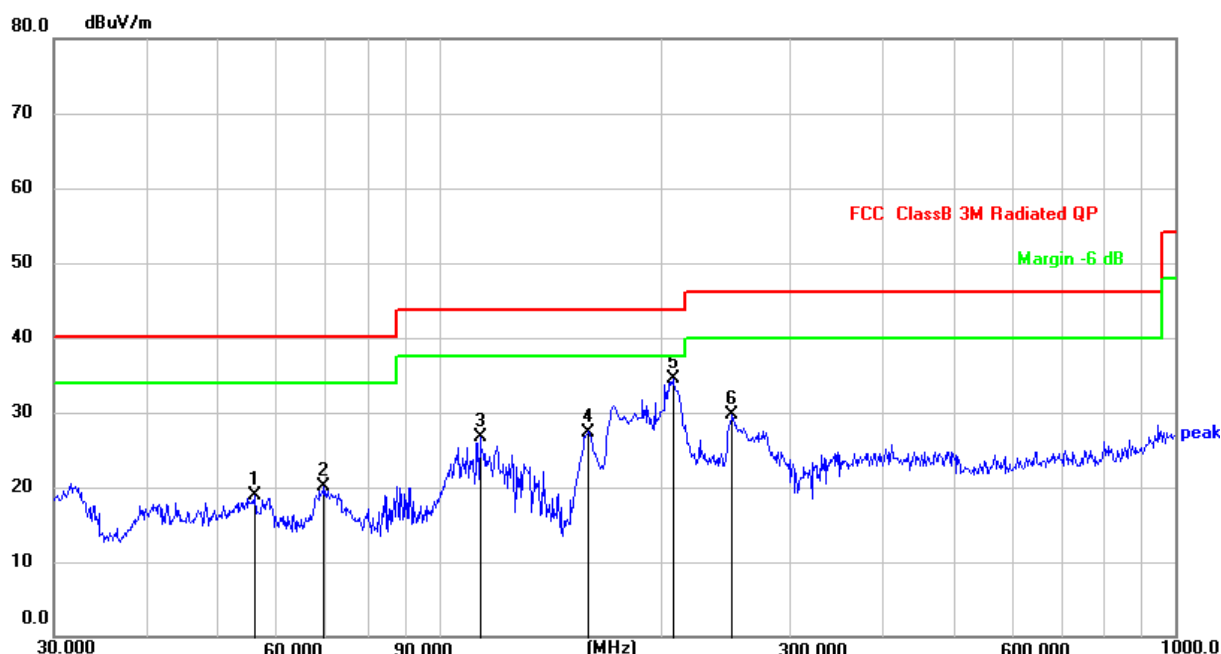
Between 30MHz – 1GHz

Note: All the mode has been tested for this test, the mode 11a CH36 is the worst mode. Just report the worst data.

Note 1: Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note 2: The peak value is less than the AV value, AV value is not required Factor added by measurement software automatically.

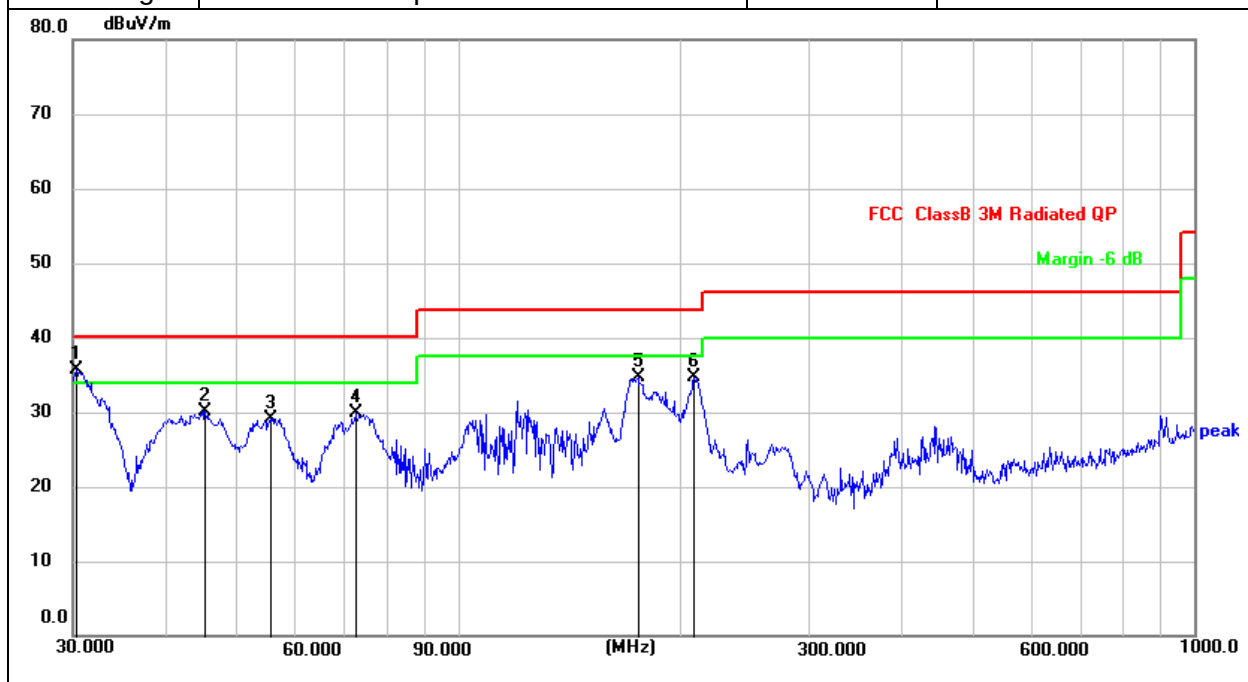
EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010 hPa	Phase:	H
Test Voltage:	DC 5V from adapter AC 120V/60Hz	Mode:	TX



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	56.1974	33.03	-14.20	18.83	40.00	-21.17	QP
2	69.8448	37.67	-17.62	20.05	40.00	-19.95	QP
3	113.7142	41.79	-15.18	26.61	43.50	-16.89	QP
4	159.2247	44.04	-16.65	27.39	43.50	-16.11	QP
5 *	207.8500	48.05	-13.50	34.55	43.50	-8.95	QP
6	250.3009	41.74	-12.06	29.68	46.00	-16.32	QP



EUT:	iBaby Monitor M8	Model Name:	M8
Pressure:	1010 hPa	Phase:	V
Test Voltage:	DC 5V from adapter AC 120V/60Hz	Mode:	TX



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	30.3170	51.96	-16.30	35.66	40.00	-4.34	QP
2	45.3753	43.89	-13.78	30.11	40.00	-9.89	QP
3	55.8046	43.35	-14.17	29.18	40.00	-10.82	QP
4	72.5913	47.74	-17.79	29.95	40.00	-10.05	QP
5	175.6516	50.42	-15.79	34.63	43.50	-8.87	QP
6	209.3129	48.06	-13.45	34.61	43.50	-8.89	QP

1G-40GHz:

Note1: Emission Level = Meter Reading + Factor, Margin= Emission Level- Limit, Factor = Antenna Factor + Cable Loss – Pre-amplifier.

Note2: The peak value is less than the AV value, AV value is not required Factor added by measurement software automatically.

Note3: The spurious emission of 25GHz – 40GHz band which the margin is lower more than 20dB, So that it is not reported in this test report.

For U-NII-1

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	4435.128	54.84	5.94	35.40	44.00	52.18	74.00	-21.82	Pk
Vertical	4434.747	44.70	5.94	35.40	44.00	42.04	54.00	-11.96	AV
Vertical	10371.353	61.70	8.46	39.75	44.50	65.41	74.00	-8.59	Pk
Vertical	10371.039	44.11	8.46	39.75	44.50	47.82	54.00	-6.18	Pk
Vertical	15541.626	57.05	10.12	38.80	44.10	61.87	74.00	-12.13	AV
Horizontal	15541.542	43.21	10.12	38.80	42.70	49.43	54.00	-4.57	Pk
Horizontal	4436.052	57.99	5.94	35.18	44.00	55.11	74.00	-18.89	AV
Horizontal	4435.147	42.78	5.94	35.18	44.00	39.90	54.00	-14.10	Pk
Horizontal	10370.733	62.15	8.46	38.71	44.50	64.82	74.00	-9.18	Pk
Horizontal	10731.533	46.18	8.46	38.71	44.50	48.85	54.00	-5.15	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	4592.596	56.81	6.48	36.35	44.05	55.59	74.00	-18.41	Pk
Vertical	4594.232	43.19	6.48	36.35	44.05	41.97	54.00	-12.03	AV
Vertical	10402.876	61.50	8.47	37.88	44.51	63.34	74.00	-10.66	Pk
Vertical	10402.982	46.04	8.47	37.88	44.51	47.88	54.00	-6.12	Pk
Vertical	15602.150	56.57	10.12	38.8	44.10	61.39	74.00	-12.61	AV
Horizontal	15600.316	41.15	10.12	38.8	42.70	47.37	54.00	-6.63	Pk
Horizontal	4593.859	58.78	6.48	36.37	44.05	57.58	74.00	-16.42	AV
Horizontal	4592.477	42.33	6.48	36.37	44.05	41.13	54.00	-12.87	Pk
Horizontal	10402.270	61.26	8.47	38.64	44.50	63.87	74.00	-10.13	Pk
Horizontal	10400.388	48.09	8.47	38.64	44.50	50.70	54.00	-3.30	AV



High Channel (5240 MHz)-Above 1G									
Vertical	4741.297	59.16	7.10	37.24	43.50	60.00	74.00	-14.00	Pk
Vertical	4739.826	46.42	7.10	37.24	43.50	47.26	54.00	-6.74	AV
Vertical	10481.030	61.10	8.46	37.68	44.50	62.74	74.00	-11.26	Pk
Vertical	10480.818	46.09	8.46	37.68	44.50	47.73	54.00	-6.27	Pk
Vertical	15721.752	58.97	10.12	38.8	44.10	63.79	74.00	-10.21	AV
Horizontal	15722.261	44.10	10.12	38.8	42.70	50.32	54.00	-3.68	Pk
Horizontal	4739.517	60.44	7.10	37.24	43.50	61.28	74.00	-12.72	AV
Horizontal	4739.267	44.08	7.10	37.24	43.50	44.92	54.00	-9.08	Pk
Horizontal	10483.480	59.07	8.46	38.57	44.50	61.60	74.00	-12.40	Pk
Horizontal	10483.024	42.69	8.46	38.57	44.50	45.22	54.00	-8.78	AV

Note: Both horizontal and vertical antenna polarities were tested and only the worst case (horizontal) emissions were reported.

For U-NII-2A

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4435.762	54.94	5.94	35.40	44.00	52.28	74.00	-21.72	Pk
Vertical	4435.733	44.39	5.94	35.40	44.00	41.73	54.00	-12.27	AV
Vertical	10371.389	62.07	8.46	39.75	44.50	65.78	74.00	-8.22	Pk
Vertical	10370.982	44.25	8.46	39.75	44.50	47.96	54.00	-6.04	AV
Vertical	15541.020	57.13	10.12	38.80	44.10	61.95	74.00	-12.05	Pk
Vertical	15541.731	43.75	10.12	38.80	42.70	49.97	54.00	-4.03	AV
Horizontal	4435.287	58.93	5.94	35.18	44.00	56.05	74.00	-17.95	Pk
Horizontal	4435.358	43.37	5.94	35.18	44.00	40.49	54.00	-13.51	AV
Horizontal	10371.186	62.31	8.46	38.71	44.50	64.98	74.00	-9.02	Pk
Horizontal	10731.488	45.43	8.46	38.71	44.50	48.10	54.00	-5.90	AV
Horizontal	15540.457	58.12	10.12	38.38	44.10	62.52	74.00	-11.48	Pk
Horizontal	15540.604	42.74	10.12	38.38	44.10	47.14	54.00	-6.86	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	4593.719	57.04	6.48	36.35	44.05	55.82	74.00	-18.18	Pk
Vertical	4593.225	42.33	6.48	36.35	44.05	41.11	54.00	-12.89	AV
Vertical	10402.977	61.98	8.47	37.88	44.51	63.82	74.00	-10.18	Pk
Vertical	10402.421	45.81	8.47	37.88	44.51	47.65	54.00	-6.35	AV
Vertical	15601.083	56.52	10.12	38.8	44.10	61.34	74.00	-12.66	Pk
Vertical	15600.237	42.65	10.12	38.8	42.70	48.87	54.00	-5.13	AV
Horizontal	4593.443	59.38	6.48	36.37	44.05	58.18	74.00	-15.82	Pk
Horizontal	4594.016	42.19	6.48	36.37	44.05	40.99	54.00	-13.01	AV
Horizontal	10400.469	62.44	8.47	38.64	44.50	65.05	74.00	-8.95	Pk
Horizontal	10401.776	46.49	8.47	38.64	44.50	49.10	54.00	-4.90	AV
Horizontal	15601.512	57.72	10.12	38.38	44.10	62.12	74.00	-11.88	Pk
Horizontal	15600.918	43.26	10.12	38.38	44.10	47.66	54.00	-6.34	AV



High Channel (5320 MHz)-Above 1G									
Vertical	4739.534	60.40	7.10	37.24	43.50	61.24	74.00	-12.76	Pk
Vertical	4739.561	46.64	7.10	37.24	43.50	47.48	54.00	-6.52	AV
Vertical	10480.744	62.14	8.46	37.68	44.50	63.78	74.00	-10.22	Pk
Vertical	10481.785	45.84	8.46	37.68	44.50	47.48	54.00	-6.52	AV
Vertical	15721.113	57.77	10.12	38.8	44.10	62.59	74.00	-11.41	Pk
Vertical	15722.018	43.29	10.12	38.8	42.70	49.51	54.00	-4.49	AV
Horizontal	4740.988	59.52	7.10	37.24	43.50	60.36	74.00	-13.64	Pk
Horizontal	4739.639	43.91	7.10	37.24	43.50	44.75	54.00	-9.25	AV
Horizontal	10482.840	57.83	8.46	38.57	44.50	60.36	74.00	-13.64	Pk
Horizontal	10481.910	43.51	8.46	38.57	44.50	46.04	54.00	-7.96	AV
Horizontal	15720.486	57.38	10.12	38.38	44.10	61.78	74.00	-12.22	Pk
Horizontal	15721.767	43.16	10.12	38.38	44.10	47.56	54.00	-6.44	AV

Note: Both horizontal and vertical antenna polarities were tested and only the worst case (horizontal) emissions were reported.

For U-NII-2C

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	4434.827	55.79	5.94	35.40	44.00	53.13	74.00	-20.87	Pk
Vertical	4434.631	45.18	5.94	35.40	44.00	42.52	54.00	-11.48	AV
Vertical	10371.843	63.52	8.46	39.75	44.50	67.23	74.00	-6.77	Pk
Vertical	10370.540	44.35	8.46	39.75	44.50	48.06	54.00	-5.94	AV
Vertical	15541.487	55.36	10.12	38.80	44.10	60.18	74.00	-13.82	Pk
Vertical	15541.672	42.84	10.12	38.80	42.70	49.06	54.00	-4.94	AV
Horizontal	4435.372	59.68	5.94	35.18	44.00	56.80	74.00	-17.20	Pk
Horizontal	4435.113	43.90	5.94	35.18	44.00	41.02	54.00	-12.98	AV
Horizontal	10371.376	62.25	8.46	38.71	44.50	64.92	74.00	-9.08	Pk
Horizontal	10730.854	45.24	8.46	38.71	44.50	47.91	54.00	-6.09	AV
Horizontal	15540.971	56.50	10.12	38.38	44.10	60.90	74.00	-13.10	Pk
Horizontal	15540.244	42.64	10.12	38.38	44.10	47.04	54.00	-6.96	AV
middle Channel (5600 MHz)-Above 1G									
Vertical	4593.881	57.91	6.48	36.35	44.05	56.69	74.00	-17.31	Pk
Vertical	4593.961	41.96	6.48	36.35	44.05	40.74	54.00	-13.26	AV
Vertical	10402.275	60.41	8.47	37.88	44.51	62.25	74.00	-11.75	Pk
Vertical	10402.011	45.33	8.47	37.88	44.51	47.17	54.00	-6.83	AV
Vertical	15601.460	57.85	10.12	38.8	44.10	62.67	74.00	-11.33	Pk
Vertical	15601.890	41.10	10.12	38.8	42.70	47.32	54.00	-6.68	AV
Horizontal	4593.353	59.80	6.48	36.37	44.05	58.60	74.00	-15.40	Pk
Horizontal	4592.418	43.36	6.48	36.37	44.05	42.16	54.00	-11.84	AV
Horizontal	10401.231	61.18	8.47	38.64	44.50	63.79	74.00	-10.21	Pk
Horizontal	10400.302	47.04	8.47	38.64	44.50	49.65	54.00	-4.35	AV
Horizontal	15601.685	57.32	10.12	38.38	44.10	61.72	74.00	-12.28	Pk
Horizontal	15600.985	42.83	10.12	38.38	44.10	47.23	54.00	-6.77	AV



High Channel (5700 MHz)-Above 1G									
Vertical	4739.677	60.28	7.10	37.24	43.50	61.12	74.00	-12.88	Pk
Vertical	4740.457	45.81	7.10	37.24	43.50	46.65	54.00	-7.35	AV
Vertical	10481.445	60.75	8.46	37.68	44.50	62.39	74.00	-11.61	Pk
Vertical	10480.806	45.87	8.46	37.68	44.50	47.51	54.00	-6.49	AV
Vertical	15722.219	59.09	10.12	38.8	44.10	63.91	74.00	-10.09	Pk
Vertical	15720.218	43.53	10.12	38.8	42.70	49.75	54.00	-4.25	AV
Horizontal	4739.865	59.87	7.10	37.24	43.50	60.71	74.00	-13.29	Pk
Horizontal	4740.710	43.71	7.10	37.24	43.50	44.55	54.00	-9.45	AV
Horizontal	10482.481	58.23	8.46	38.57	44.50	60.76	74.00	-13.24	Pk
Horizontal	10482.193	42.75	8.46	38.57	44.50	45.28	54.00	-8.72	AV
Horizontal	15720.263	57.70	10.12	38.38	44.10	62.10	74.00	-11.90	Pk
Horizontal	15721.914	41.99	10.12	38.38	44.10	46.39	54.00	-7.61	AV

Note: Both horizontal and vertical antenna polarities were tested and only the worst case (horizontal) emissions were reported.

For U-NII-3

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBUV)	(dB)	dB/m	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	4680.744	57.80	5.94	35.40	44.00	55.14	74.00	-18.86	Pk
Vertical	4679.387	47.26	5.94	35.40	44.00	44.60	54.00	-9.40	AV
Vertical	11490.989	59.07	8.46	39.75	44.50	62.78	74.00	-11.22	Pk
Vertical	11490.752	44.80	8.46	39.75	44.50	48.51	54.00	-5.49	AV
Vertical	17236.132	57.34	10.12	38.80	44.10	62.16	74.00	-11.84	Pk
Horizontal	17237.364	42.08	10.12	38.80	42.70	48.30	54.00	-5.70	Pk
Horizontal	4680.183	59.41	5.94	35.18	44.00	56.53	74.00	-17.47	AV
Horizontal	4680.976	45.32	5.94	35.18	44.00	42.44	54.00	-11.56	Pk
Horizontal	11490.525	59.36	8.46	38.71	44.50	62.03	74.00	-11.97	AV
Horizontal	11491.680	45.40	8.46	38.71	44.50	48.07	54.00	-5.93	Pk
middle Channel (5785 MHz)-Above 1G									
Vertical	4592.997	58.80	6.48	36.35	44.05	57.58	74.00	-16.42	Pk
Vertical	4593.151	43.83	6.48	36.35	44.05	42.61	54.00	-11.39	AV
Vertical	11571.460	60.08	8.47	37.88	44.51	61.92	74.00	-12.08	Pk
Vertical	11571.493	44.32	8.47	37.88	44.51	46.16	54.00	-7.84	AV
Vertical	17357.143	58.48	10.12	38.8	44.10	63.30	74.00	-10.70	Pk
Horizontal	17356.207	42.05	10.12	38.8	42.70	48.27	54.00	-5.73	Pk
Horizontal	4593.542	60.79	6.48	36.37	44.05	59.59	74.00	-14.41	AV
Horizontal	4593.472	44.40	6.48	36.37	44.05	43.20	54.00	-10.80	Pk
Horizontal	11571.169	61.82	8.47	38.64	44.50	64.43	74.00	-9.57	AV
Horizontal	11570.285	47.78	8.47	38.64	44.50	50.39	54.00	-3.61	Pk
High Channel (5825 MHz)-Above 1G									
Vertical	5039.849	60.48	7.10	37.24	43.50	61.32	74.00	-12.68	Pk
Vertical	5040.910	47.35	7.10	37.24	43.50	48.19	54.00	-5.81	AV
Vertical	11650.728	56.01	8.46	37.68	44.50	57.65	74.00	-16.35	Pk
Vertical	11651.922	42.92	8.46	37.68	44.50	44.56	54.00	-9.44	AV
Vertical	17475.811	61.23	10.12	38.8	44.10	66.05	74.00	-7.95	Pk
Horizontal	17476.366	40.69	10.12	38.8	42.70	46.91	54.00	-7.09	Pk
Horizontal	5039.340	68.49	7.10	37.24	43.50	69.33	74.00	-4.67	AV
Horizontal	5040.366	42.58	7.10	37.24	43.50	43.42	54.00	-10.58	Pk
Horizontal	11650.289	57.38	8.46	38.57	44.50	59.91	74.00	-14.09	AV
Horizontal	11650.259	44.10	8.46	38.57	44.50	46.63	54.00	-7.37	Pk

Band edge – radiated

Note: Emission Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

For U-NII-1&U-NII-2A

For 802.11a mode: (CH36 5180MHz&CH64 5320MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	67.20	8.69	29.4	42.59	62.70	74	-11.30	Pk
Horizontal	5350	63.22	9.37	30.41	43.25	59.75	74	-14.25	Pk
Vertical	5150	67.89	9.21	29.4	42.59	63.91	74	-10.09	Pk
Vertical	5350	60.00	9.12	30.41	43.25	56.28	74	-17.72	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector
Horizontal	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	46.17	8.69	29.4	42.59	41.67	54	-12.33	AV
Horizontal	5350	49.70	8.46	30.41	43.25	45.32	54	-8.68	AV
Vertical	5150	49.48	9.21	29.4	42.59	45.50	54	-8.50	AV
Vertical	5350	51.56	9.12	30.41	43.25	47.84	54	-6.16	AV

For 802.11n20 mode: (CH36 5180MHz&CH64 5320MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	64.87	8.69	29.4	42.59	60.37	74	-13.63	Pk
Horizontal	5350	66.62	9.37	30.41	43.25	63.15	74	-10.85	Pk
Vertical	5150	65.75	9.21	29.4	42.59	61.77	74	-12.23	Pk
Vertical	5350	68.00	9.12	30.41	43.25	64.28	74	-9.72	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	47.63	8.69	29.4	42.59	43.13	54	-10.87	AV
Horizontal	5350	47.74	8.46	30.41	43.25	43.36	54	-10.64	AV
Vertical	5150	50.56	9.21	29.4	42.59	46.58	54	-7.42	AV
Vertical	5350	50.31	9.12	30.41	43.25	46.59	54	-7.41	AV

For 802.11n40 mode: (CH38 5190MHz&CH62 5310MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	66.86	8.69	29.4	42.59	62.36	74	-11.64	Pk
Horizontal	5350	62.93	9.37	30.41	43.25	59.46	74	-14.54	Pk
Vertical	5150	65.48	9.21	29.4	42.59	61.50	74	-12.50	Pk
Vertical	5350	60.83	9.12	30.41	43.25	57.11	74	-16.89	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	46.87	8.69	29.4	42.59	42.37	54	-11.63	AV
Horizontal	5350	48.48	8.46	30.41	43.25	44.10	54	-9.90	AV
Vertical	5150	49.71	9.21	29.4	42.59	45.73	54	-8.27	AV
Vertical	5350	50.23	9.12	30.41	43.25	46.51	54	-7.49	AV

For 802.11ac20 mode: (CH36 5180MHz&CH64 5320MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	65.05	8.69	29.4	42.59	60.55	74	-13.45	Pk
Horizontal	5350	66.55	9.37	30.41	43.25	63.08	74	-10.92	Pk
Vertical	5150	65.45	9.21	29.4	42.59	61.47	74	-12.53	Pk
Vertical	5350	68.10	9.12	30.41	43.25	64.38	74	-9.62	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	48.54	8.69	29.4	42.59	44.04	54	-9.96	AV
Horizontal	5350	48.00	8.46	30.41	43.25	43.62	54	-10.38	AV
Vertical	5150	50.21	9.21	29.4	42.59	46.23	54	-7.77	AV
Vertical	5350	50.36	9.12	30.41	43.25	46.64	54	-7.36	AV

For 802.11ac40 mode: (CH38 5190MHz&CH62 5310MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	66.81	8.69	29.4	42.59	62.31	74	-11.69	Pk
Horizontal	5350	66.83	9.37	30.41	43.25	63.36	74	-10.64	Pk
Vertical	5150	65.60	9.21	29.4	42.59	61.62	74	-12.38	Pk
Vertical	5350	67.80	9.12	30.41	43.25	64.08	74	-9.92	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	48.21	8.69	29.4	42.59	43.71	54	-10.29	AV
Horizontal	5350	45.47	8.46	30.41	43.25	41.09	54	-12.91	AV
Vertical	5150	50.31	9.21	29.4	42.59	46.33	54	-7.67	AV
Vertical	5350	49.92	9.12	30.41	43.25	46.20	54	-7.80	AV

For 802.11ac80 mode: (CH42 5210MHz&CH58 5290MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	65.96	8.69	29.4	42.59	61.46	74	-12.54	Pk
Horizontal	5350	67.16	9.37	30.41	43.25	63.69	74	-10.31	Pk
Vertical	5150	66.27	9.21	29.4	42.59	62.29	74	-11.71	Pk
Vertical	5350	66.91	9.12	30.41	43.25	63.19	74	-10.81	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5150	47.00	8.69	29.4	42.59	42.50	54	-11.50	AV
Horizontal	5350	47.73	8.46	30.41	43.25	43.35	54	-10.65	AV
Vertical	5150	50.22	9.21	29.4	42.59	46.24	54	-7.76	AV
Vertical	5350	49.71	9.12	30.41	43.25	45.99	54	-8.01	AV

For U-NII-2C

For 802.11a mode: (CH100 5500MHz&CH140 5700MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	68.85	8.69	29.4	42.59	64.35	74	-9.65	Pk
Horizontal	5725	66.05	9.37	30.41	43.25	62.58	74	-11.42	Pk
Vertical	5470	61.83	9.21	29.4	42.59	57.85	74	-16.15	Pk
Vertical	5725	60.54	9.12	30.41	43.25	56.82	74	-17.18	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
Horizontal	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	46.07	8.69	29.4	42.59	41.57	54	-12.43	AV
Horizontal	5725	48.65	8.46	30.41	43.25	44.27	54	-9.73	AV
Vertical	5470	44.90	9.21	29.4	42.59	40.92	54	-13.08	AV
Vertical	5725	48.92	9.12	30.41	43.25	45.20	54	-8.80	AV

For 802.11n20 mode: (CH100 5500MHz&CH140 5700MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	68.06	8.69	29.4	42.59	63.56	74	-10.44	Pk
Horizontal	5725	65.56	9.37	30.41	43.25	62.09	74	-11.91	Pk
Vertical	5470	62.15	9.21	29.4	42.59	58.17	74	-15.83	Pk
Vertical	5725	61.18	9.12	30.41	43.25	57.46	74	-16.54	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	47.32	8.69	29.4	42.59	42.82	54	-11.18	AV
Horizontal	5725	47.55	8.46	30.41	43.25	43.17	54	-10.83	AV
Vertical	5470	45.85	9.21	29.4	42.59	41.87	54	-12.13	AV
Vertical	5725	49.12	9.12	30.41	43.25	45.40	54	-8.60	AV

For 802.11n40 mode: (CH102 5510MHz&CH134 5670MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	67.24	8.69	29.4	42.59	62.74	74	-11.26	Pk
Horizontal	5725	67.06	9.37	30.41	43.25	63.59	74	-10.41	Pk
Vertical	5470	61.63	9.21	29.4	42.59	57.65	74	-16.35	Pk
Vertical	5725	60.48	9.12	30.41	43.25	56.76	74	-17.24	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	45.23	8.69	29.4	42.59	40.73	54	-13.27	AV
Horizontal	5725	48.30	8.46	30.41	43.25	43.92	54	-10.08	AV
Vertical	5470	44.94	9.21	29.4	42.59	40.96	54	-13.04	AV
Vertical	5725	48.36	9.12	30.41	43.25	44.64	54	-9.36	AV

For 802.11ac20 mode: (CH100 5500MHz&CH140 5700MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	69.39	8.69	29.4	42.59	64.89	74	-9.11	Pk
Horizontal	5725	65.69	9.37	30.41	43.25	62.22	74	-11.78	Pk
Vertical	5470	62.02	9.21	29.4	42.59	58.04	74	-15.96	Pk
Vertical	5725	60.71	9.12	30.41	43.25	56.99	74	-17.01	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	45.56	8.69	29.4	42.59	41.06	54	-12.94	AV
Horizontal	5725	48.39	8.46	30.41	43.25	44.01	54	-9.99	AV
Vertical	5470	45.96	9.21	29.4	42.59	41.98	54	-12.02	AV
Vertical	5725	49.74	9.12	30.41	43.25	46.02	54	-7.98	AV

For 802.11ac40 mode: (CH102 5510MHz&CH134 5670MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	67.73	8.69	29.4	42.59	63.23	74	-10.77	Pk
Horizontal	5725	67.41	9.37	30.41	43.25	63.94	74	-10.06	Pk
Vertical	5470	59.71	9.21	29.4	42.59	55.73	74	-18.27	Pk
Vertical	5725	62.40	9.12	30.41	43.25	58.68	74	-15.32	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	47.05	8.69	29.4	42.59	42.55	54	-11.45	AV
Horizontal	5725	48.16	8.46	30.41	43.25	43.78	54	-10.22	AV
Vertical	5470	46.15	9.21	29.4	42.59	42.17	54	-11.83	AV
Vertical	5725	47.72	9.12	30.41	43.25	44.00	54	-10.00	AV

For 802.11ac80 mode: (CH106 5530MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	69.07	8.69	29.4	42.59	64.57	74	-9.43	Pk
Horizontal	5725	65.97	9.37	30.41	43.25	62.50	74	-11.50	Pk
Vertical	5470	60.64	9.21	29.4	42.59	56.66	74	-17.34	Pk
Vertical	5725	61.56	9.12	30.41	43.25	57.84	74	-16.16	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5470	45.70	8.69	29.4	42.59	41.20	54	-12.80	AV
Horizontal	5725	49.25	8.46	30.41	43.25	44.87	54	-9.13	AV
Vertical	5470	44.29	9.21	29.4	42.59	40.31	54	-13.69	AV
Vertical	5725	50.65	9.12	30.41	43.25	46.93	54	-7.07	AV

For U-NII-3

For 802.11a mode: (CH149 5745MHz&CH165 5825MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	65.50	8.69	29.4	42.59	61.00	74	-13.00	Pk
Horizontal	5850	62.58	9.37	30.41	43.25	59.11	74	-14.89	Pk
Vertical	5725	69.19	9.21	29.4	42.59	65.21	74	-8.79	Pk
Vertical	5850	60.63	9.12	30.41	43.25	56.91	74	-17.09	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
Horizontal	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	45.74	8.69	29.4	42.59	41.24	54	-12.76	AV
Horizontal	5850	51.10	8.46	30.41	43.25	46.72	54	-7.28	AV
Vertical	5725	50.95	9.21	29.4	42.59	46.97	54	-7.03	AV
Vertical	5850	50.61	9.12	30.41	43.25	46.89	54	-7.11	AV

For 802.11n20 mode: (CH149 5745MHz&CH165 5825MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	65.59	8.69	29.4	42.59	61.09	74	-12.91	Pk
Horizontal	5850	62.67	9.37	30.41	43.25	59.20	74	-14.80	Pk
Vertical	5725	67.79	9.21	29.4	42.59	63.81	74	-10.19	Pk
Vertical	5850	62.40	9.12	30.41	43.25	58.68	74	-15.32	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	47.88	8.69	29.4	42.59	43.38	54	-10.62	AV
Horizontal	5850	50.26	8.46	30.41	43.25	45.88	54	-8.12	AV
Vertical	5725	48.48	9.21	29.4	42.59	44.50	54	-9.50	AV
Vertical	5850	50.26	9.12	30.41	43.25	46.54	54	-7.46	AV

For 802.11n40 mode: (CH151 5755MHz&CH159 5795MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	65.89	8.69	29.4	42.59	61.39	74	-12.61	Pk
Horizontal	5850	65.53	9.37	30.41	43.25	62.06	74	-11.94	Pk
Vertical	5725	70.33	9.21	29.4	42.59	66.35	74	-7.65	Pk
Vertical	5850	59.80	9.12	30.41	43.25	56.08	74	-17.92	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	46.38	8.69	29.4	42.59	41.88	54	-12.12	AV
Horizontal	5850	49.91	8.46	30.41	43.25	45.53	54	-8.47	AV
Vertical	5725	48.54	9.21	29.4	42.59	44.56	54	-9.44	AV
Vertical	5850	51.72	9.12	30.41	43.25	48.00	54	-6.00	AV

For 802.11ac20 mode: (CH149 5745MHz&CH165 5825MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	65.87	8.69	29.4	42.59	61.37	74	-12.63	Pk
Horizontal	5850	63.92	9.37	30.41	43.25	60.45	74	-13.55	Pk
Vertical	5725	69.98	9.21	29.4	42.59	66.00	74	-8.00	Pk
Vertical	5850	60.95	9.12	30.41	43.25	57.23	74	-16.77	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	47.28	8.69	29.4	42.59	42.78	54	-11.22	AV
Horizontal	5850	50.73	8.46	30.41	43.25	46.35	54	-7.65	AV
Vertical	5725	49.64	9.21	29.4	42.59	45.66	54	-8.34	AV
Vertical	5850	49.90	9.12	30.41	43.25	46.18	54	-7.82	AV

For 802.11ac40 mode: (CH151 5755MHz&CH159 5795MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	67.97	8.69	29.4	42.59	63.47	74	-10.53	Pk
Horizontal	5850	63.50	9.37	30.41	43.25	60.03	74	-13.97	Pk
Vertical	5725	69.38	9.21	29.4	42.59	65.40	74	-8.60	Pk
Vertical	5850	61.64	9.12	30.41	43.25	57.92	74	-16.08	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	48.12	8.69	29.4	42.59	43.62	54	-10.38	AV
Horizontal	5850	51.54	8.46	30.41	43.25	47.16	54	-6.84	AV
Vertical	5725	49.31	9.21	29.4	42.59	45.33	54	-8.67	AV
Vertical	5850	52.55	9.12	30.41	43.25	48.83	54	-5.17	AV

For 802.11ac80 mode: (CH155 5775MHz)

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	66.82	8.69	29.4	42.59	62.32	74	-11.68	Pk
Horizontal	5850	62.88	9.37	30.41	43.25	59.41	74	-14.59	Pk
Vertical	5725	67.59	9.21	29.4	42.59	63.61	74	-10.39	Pk
Vertical	5850	61.97	9.12	30.41	43.25	58.25	74	-15.75	Pk

Polarization	Frequency	Read Level	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Over Limit	Detector
/	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	Type
Horizontal	5725	47.64	8.69	29.4	42.59	43.14	54	-10.86	AV
Horizontal	5850	45.84	8.46	30.41	43.25	41.46	54	-12.54	AV
Vertical	5725	48.55	9.21	29.4	42.59	44.57	54	-9.43	AV
Vertical	5850	47.13	9.12	30.41	43.25	43.41	54	-10.59	AV