



FCC Part 15E Test Report

FCC ID: 2ALJJT85PRO

Applicant: PCD, LLC

Address: 1500 Tradeport Drive, Suite A, Orlando, Florida, United States

Manufacturer: HAIER MOBILE COMMUNICATION LIMITED

Address: FLAT/RM I-1 BLK 2 4/F GOLDEN DRAGON IND CTR 162-170 TAI LIN PAI ROAD
KWAI CHUNG NT HONGKONG

EUT: 10.1inch tablet

Trade Mark: N/A

Model Number: T85 PRO

Date of Receipt: Aug. 11, 2023

Test Date: Aug. 11, 2023 - Sep. 01, 2023

Date of Report: Sep. 01, 2023

Prepared By: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

Applicable Standards: FCC PART 15 E 15.407
ANSI C63.10:2013

Test Result: Pass

Report Number: DL-20230901013E

Prepared (Test Engineer): Pxing Huang

Reviewer (Supervisor): Jack Bu

Approved (Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.407(b), 15.209	Radiated Spurious Emission	PASS	
15.407 (b)	Band Edge Emission	PASS	
15.407 (a)	Peak Output Power	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.403(i) 15.407(e)	26dB bandwidth and 99%dB Bandwidth 6dB bandwidth and 99%dB Bandwidth	PASS	
15.407(g)	Frequency Stability	PASS	
15.407(c)	Transmission in case of Absence of Information	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

Test lab: Shenzhen DL Testing Technology Co., Ltd.

Address: 101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China

FCC Test Firm Registration Number: 854456

Designation Number: CN1307

IC Registered No.: 27485

CAB ID.: CN0118

1.1 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	$\pm 2.56\text{dB}$
2	RF power,conducted	$\pm 0.42\text{dB}$
3	Spurious emissions,conducted	$\pm 2.76\text{dB}$
4	All emissions,radiated(<1G)	$\pm 3.65\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5\text{C}$
7	Humidity	$\pm 2\%$
8	Bandwidth	$\pm 0.2\text{MHz}$
9	Power Spectral Density	$\pm 0.42\text{dB}$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Product Name:	10.1inch tablet
Trademark	N/A
Model No.:	T85 PRO
Model Difference	N/A
Operation Frequency:	5180-5240, 5745-5825MHz(802.11a/n/ac(HT20)) 5190-5230, 5755-5795MHz(802.11n/ac(HT40)) 5210MHz , 5775MHz (802.11ac(HT80))
Channel numbers:	See channel list
Channel separation:	20MHz/40MHz/80MHz
Modulation technology:	64QAM, 16QAM, QPSK, BPSK for OFDM
Rate of Transmitter	802.11a: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 24Mbps, 36Mbps, 48Mbps,54Mbps 802.11n: Up to 300Mbps 802.11ac: up to 867Mbps
Antenna Type:	Internal Antenna
Antenna gain:	2.75dBi
Power supply:	DC 3.8V from battery DC 5V from charger

Note:

- 1.For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 2.The EUT's all information provided by client.



2. Channel List

Channel List for 802.11a/n(HT20)/ac(HT20)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	44	5220
40	5200	48	5240

Channel List for 802.11n(HT40)/ac(HT40)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
38	5190	46	5230

Channel List for 802.11ac(HT80)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	5210	/	/

Channel List for 802.11a/n(HT20)/ac(HT20)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	161	5805
153	5765	165	5825
157	5785		

Channel List for 802.11n(HT40)/ac(HT40)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
151	5755	159	5795

Channel List for 802.11ac(HT80)			
Channel	Frequency (MHz)	Channel	Frequency (MHz)
155	5775	/	/



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Description			
Pretest Mode	Channel	Band 1	Band 4
Mode 1	802.11a/n/acHT20	CH36, CH44, CH48	CH149, CH157, CH165
Mode 2	802.11n/acHT40	CH38, CH46	CH151, CH159
Mode 3	802.11acHT80	CH42	CH155
Mode 4	Link Mode		

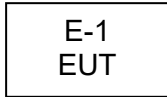
For Radiated Emission			
Pretest Mode	Channel	Band 1	Band 4
Mode 1	802.11a/n/acHT20	CH36, CH44, CH48	CH149, CH157, CH165
Mode 2	802.11n/acHT40	CH38, CH46	CH151, CH159
Mode 3	802.11acHT80	CH42	CH155
Mode 4	Link Mode		

- Note: 1. The measurements are performed at the highest, middle, lowest available channels.
2. During the test, the test voltage was tuned from 85% to 115% of the nominal rated supply voltage, and found that the worst case was under the nominal rated supply condition. So the report just shows that condition's data.

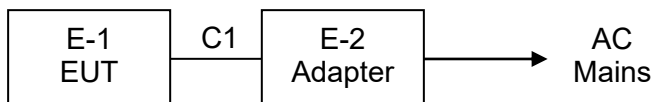


2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Spurious Emission Test



2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	Model/Type No.	Series No.	Note
E-1	10.1inch tablet	T85 PRO	N/A	EUT
E-2	Adapter	AD65G	N/A	

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 TABLE OF PARAMETERS OF TEST SOFTWARE SETTING

During testing, channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the end product.

Max output power Setting				
Test software Version	Test program: MTK			
Mode	802.11a	802.11n HT20	802.11n HT40	802.11ac HT20/HT40/HT80
Data Rate	6Mbps	MSC0	MSC0	MSC0
Power Setting of Software	60	60	66	66

**2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS**

Radiation test, Band-edge test and 6db bandwidth test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4408B	MY50140780	Nov. 05, 2022	Nov. 04, 2023
2	Test Receiver (9kHz-7GHz)	R&S	ESRP7	101393	Nov. 05, 2022	Nov. 04, 2023
3	Bilog Antenna (30MHz-1GHz)	R&S	VULB9162	00306	Nov. 05, 2022	Nov. 04, 2023
4	Horn Antenna (1GHz-18GHz)	Schwarzbeck	BBHA9120D	02139	Nov. 05, 2022	Nov. 04, 2023
5	Horn Antenna (18GHz-40GHz)	A.H. Systems	SAS-574	588	Nov. 05, 2022	Nov. 04, 2023
6	Amplifier (9KHz-6GHz)	Schwarzbeck	BBV9743B	00153	Nov. 05, 2022	Nov. 04, 2023
7	Amplifier (1GHz-18GHz)	EMEC	EM01G8GA	00270	Nov. 05, 2022	Nov. 04, 2023
8	Amplifier (18GHz-40GHz)	Quanjuda	DLE-161	97	Nov. 05, 2022	Nov. 04, 2023
9	Loop Antenna (9KHz-30MHz)	Schwarzbeck	FMZB1519B	00014	Nov. 05, 2022	Nov. 04, 2023
10	RF cables1 (9kHz-1GHz)	ChengYu	966	004	Nov. 05, 2022	Nov. 04, 2023
11	RF cables2 (1GHz-40GHz)	ChengYu	966	003	Nov. 05, 2022	Nov. 04, 2023
12	Antenna connector	Florida RF Labs	N/A	RF 01#	Nov. 05, 2022	Nov. 04, 2023
13	Power probe	KEYSIGHT	U2021XA	MY55210018	Nov. 05, 2022	Nov. 04, 2023
14	Signal Analyzer 9kHz-26.5GHz	Agilent	N9020A	MY55370280	Nov. 05, 2022	Nov. 04, 2023
15	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	Nov. 05, 2022	Nov. 04, 2023
16	D.C. Power Supply	LongWei	PS-305D	010964729	Nov. 05, 2022	Nov. 04, 2023

Conduction Test equipment

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	843 Shielded Room	ChengYu	843 Room	843	Sep. 20, 2022	Sep. 19, 2025
2	EMI Receiver	R&S	ESR	101421	Nov. 05, 2022	Nov. 04, 2023
3	LISN	R&S	ENV216	102417	Nov. 05, 2022	Nov. 04, 2023
4	843 Cable 1#	ChengYu	CE Cable	001	Nov. 05, 2022	Nov. 04, 2023

Other

Item	Name	Manufacturer	Model	Software version
1	EMC Conduction Test System	FALA	EZ_EMCC	EMC-CON 3A1.1
2	EMC radiation test system	FALA	EZ_EMCC	FA-03A2
3	RF test system	MAIWEI	MTS8310	2.0.0.0
4	RF communication test system	MAIWEI	MTS8200	2.0.0.0



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

FREQUENCY (MHz)	Limit (dBuV)		Standard
	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	FCC
0.5 -5.0	56.00	46.00	FCC
5.0 -30.0	60.00	50.00	FCC

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.

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

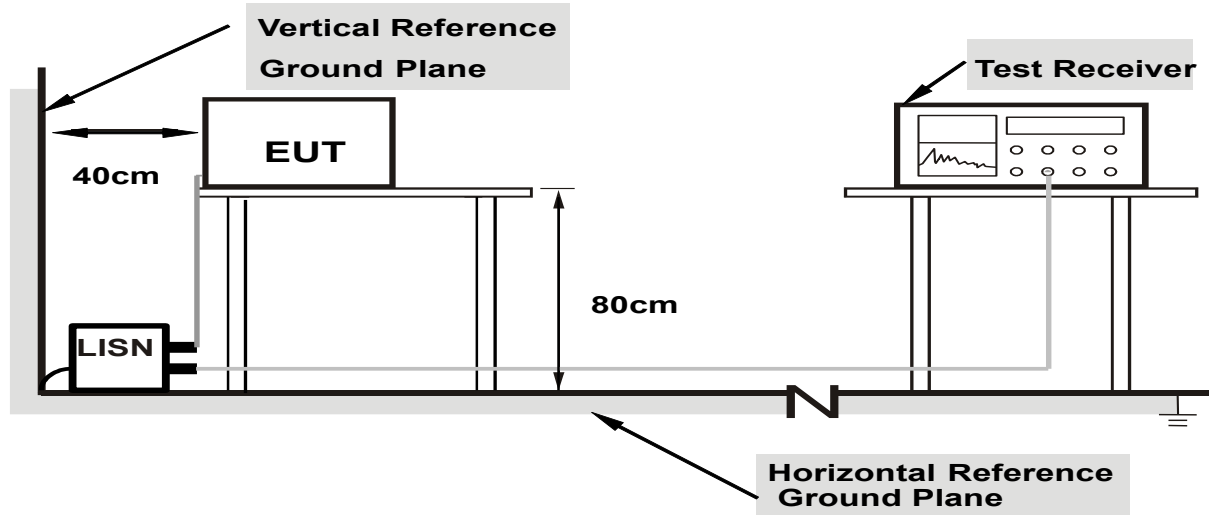
3.1.2 TEST PROCEDURE

- a. 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.
- b. 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.
- c. 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 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

3.1.5 EUT OPERATING CONDITIONS

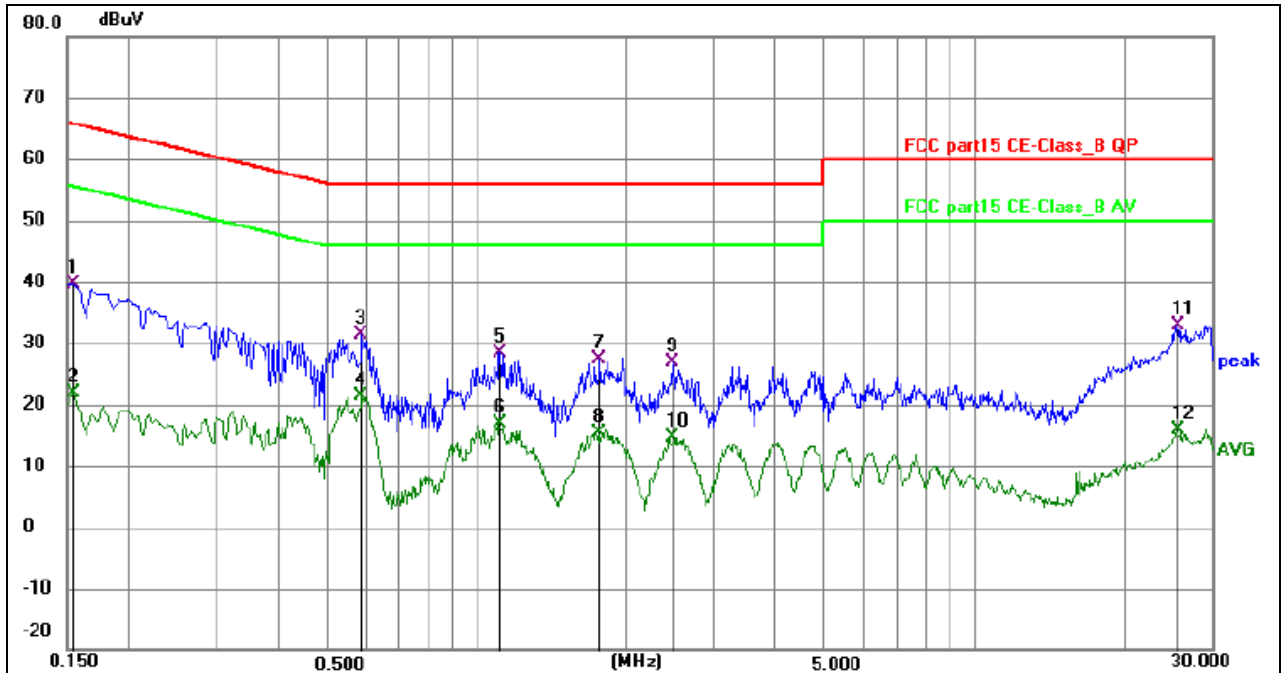
The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

We pretest AC 120V and AC 230V, the worst voltage was AC 120V and the data recording in the report.

3.1.6 TEST RESULTS



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



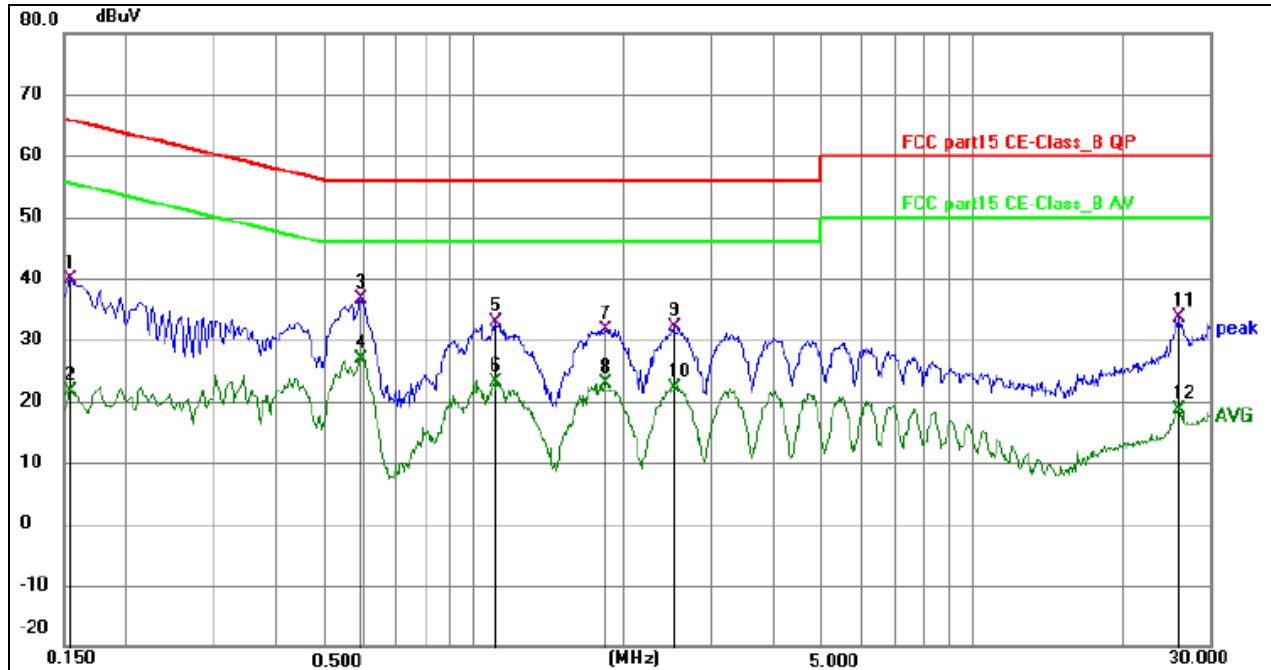
Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.154400	29.33	10.41	39.74	65.76	-26.02	QP	P	
2	0.154400	11.50	10.41	21.91	55.76	-33.85	AVG	P	
3	0.586500	21.98	9.30	31.28	56.00	-24.72	QP	P	
4 *	0.586500	12.15	9.30	21.45	46.00	-24.55	AVG	P	
5	1.112900	19.15	9.35	28.50	56.00	-27.50	QP	P	
6	1.112900	7.52	9.35	16.87	46.00	-29.13	AVG	P	
7	1.765500	17.62	9.73	27.35	56.00	-28.65	QP	P	
8	1.765500	5.65	9.73	15.38	46.00	-30.62	AVG	P	
9	2.467400	17.50	9.26	26.76	56.00	-29.24	QP	P	
10	2.467400	5.29	9.26	14.55	46.00	-31.45	AVG	P	
11	25.646900	21.60	11.28	32.88	60.00	-27.12	QP	P	
12	25.646900	4.70	11.28	15.98	50.00	-34.02	AVG	P	



Temperature:	25 °C	Relative Humidity:	54%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode:	Mode 4



Remark:

Margin = Limit – Level, Correct Factor = Cable lose + LISN insertion loss, Level= Reading + Correct factor

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.154500	29.55	10.21	39.76	65.75	-25.99	QP	P	
2	0.154500	11.32	10.21	21.53	55.75	-34.22	AVG	P	
3	0.591000	27.37	9.26	36.63	56.00	-19.37	QP	P	
4 *	0.591000	17.70	9.26	26.96	46.00	-19.04	AVG	P	
5	1.104000	23.42	9.45	32.87	56.00	-23.13	QP	P	
6	1.104000	13.72	9.45	23.17	46.00	-22.83	AVG	P	
7	1.837500	21.79	9.77	31.56	56.00	-24.44	QP	P	
8	1.837500	13.12	9.77	22.89	46.00	-23.11	AVG	P	
9	2.521500	22.19	9.83	32.02	56.00	-23.98	QP	P	
10	2.521500	12.33	9.83	22.16	46.00	-23.84	AVG	P	
11	26.038500	22.42	11.27	33.69	60.00	-26.31	QP	P	
12	26.038500	7.31	11.27	18.58	50.00	-31.42	AVG	P	



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	40GHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

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

3.2.2 TEST PROCEDURE

Below 1GHz test procedure as below:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.

Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre(Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel

Note:

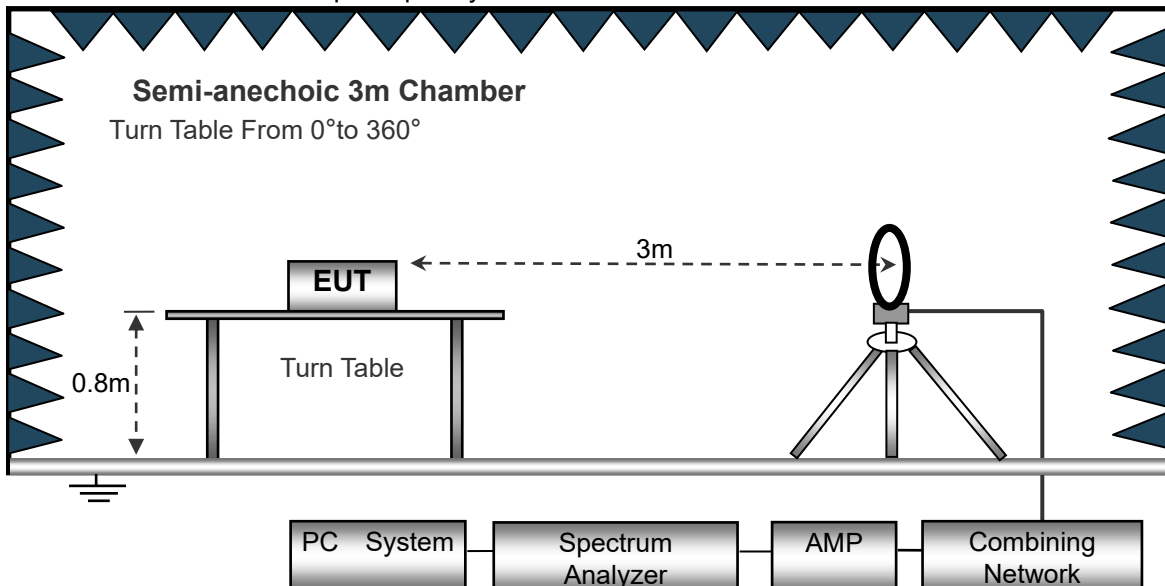
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.2.3 DEVIATION FROM TEST STANDARD

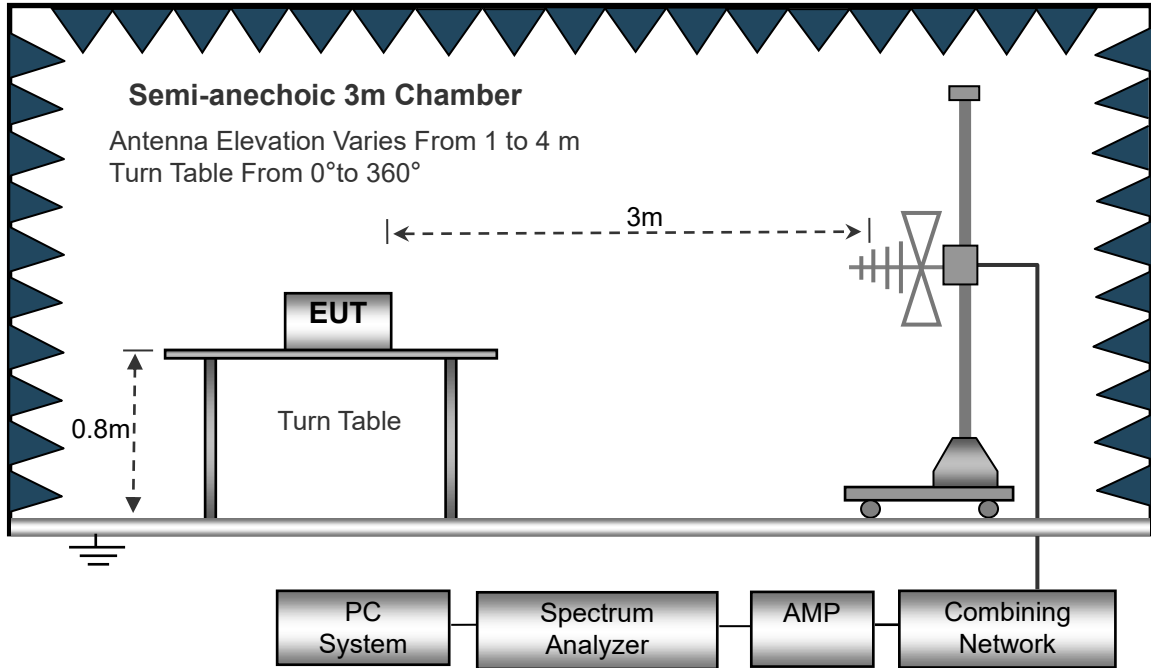
No deviation

3.2.4 TEST SETUP

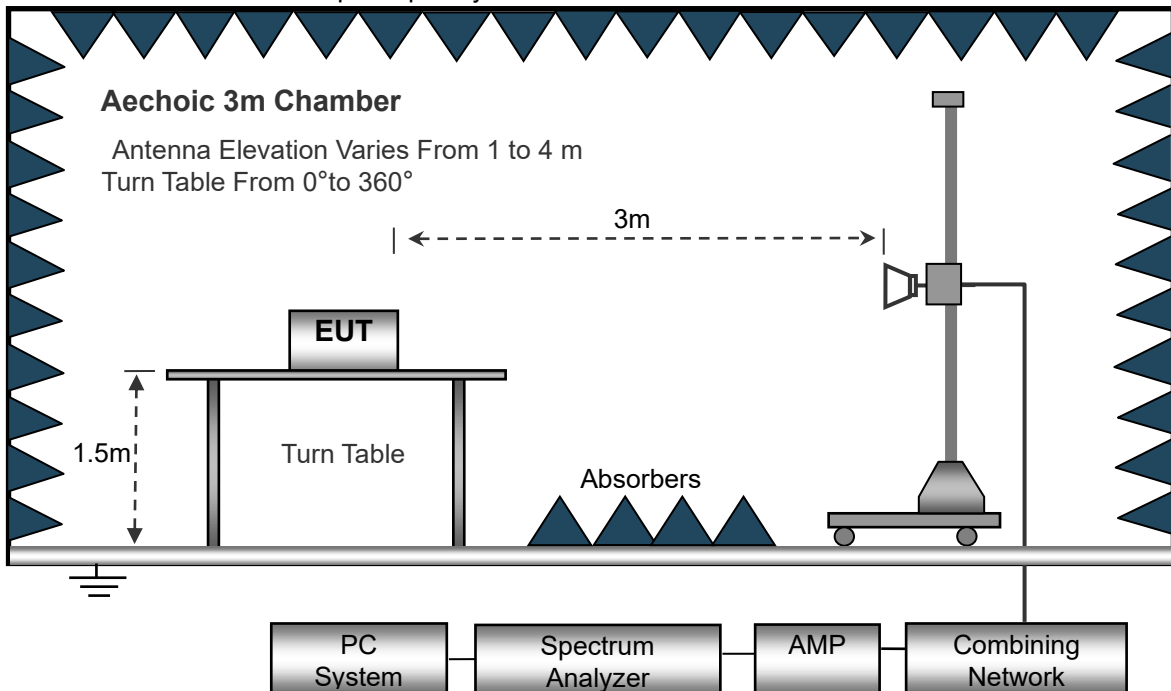
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

**3.2.6 TEST RESULTS (Between 9KHz – 30 MHz)**

Temperature:	20°C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	Mode 4	Polarization :	--

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

NOTE:

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

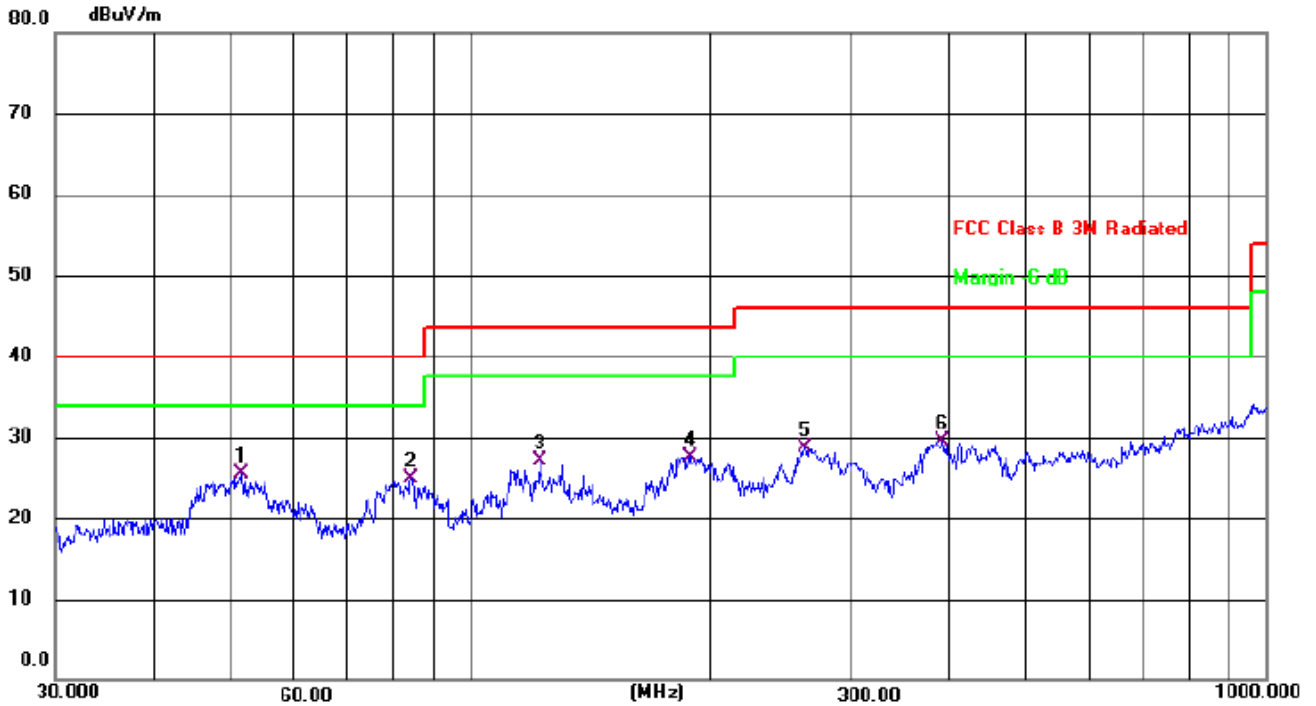
Distance extrapolation factor = $40 \log(\text{specific distance}/\text{test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



3.2.7 TEST RESULTS (Between 30MHz – 1GHz)

Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Horizontal
Test Voltage :	DC 3.8V		
Test Mode :	Mode 4		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Margin dB	Detector
1	*	51.4806	36.93	-11.45	25.48	40.00	-14.52	QP
2		84.1100	40.99	-16.07	24.92	40.00	-15.08	QP
3		121.9753	42.78	-15.77	27.01	43.50	-16.49	QP
4		188.4122	41.63	-14.03	27.60	43.50	-15.90	QP
5		262.8955	40.10	-11.48	28.62	46.00	-17.38	QP
6		392.0950	38.89	-9.41	29.48	46.00	-16.52	QP

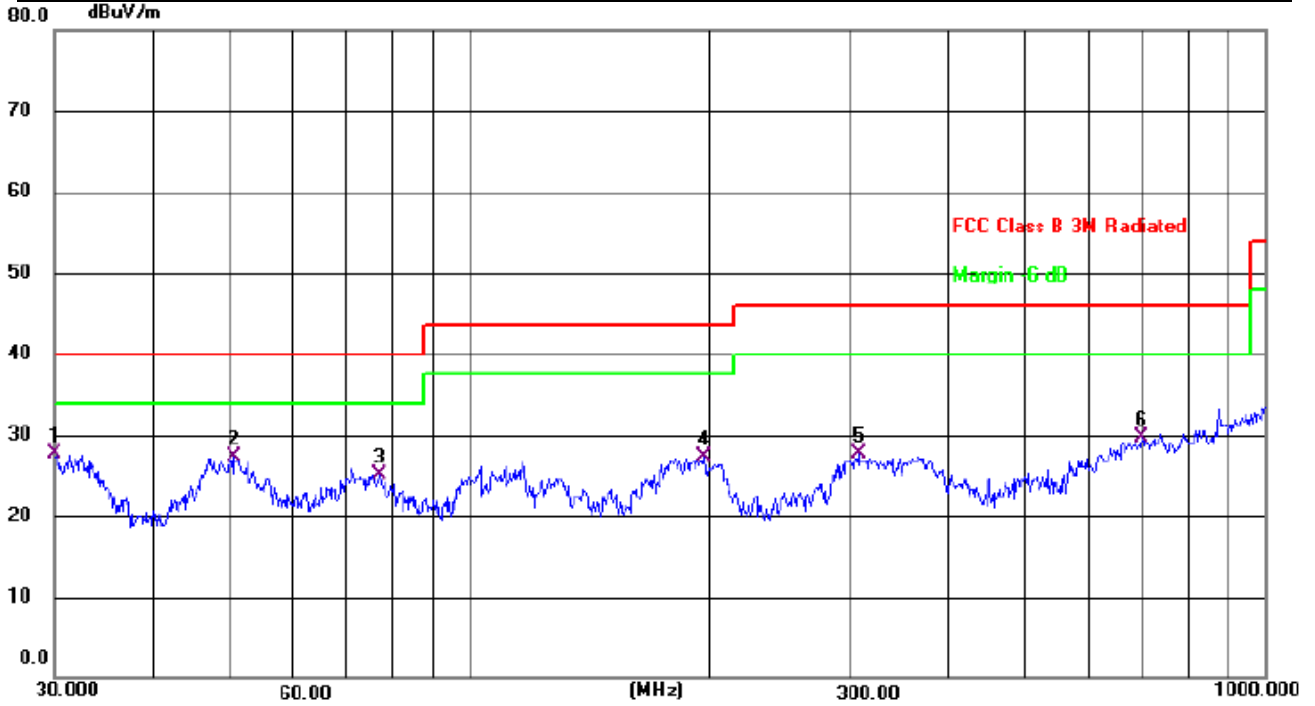
Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;



Temperature:	26°C	Relative Humidity:	54%
Pressure:	1010 hPa	Polarization :	Vertical
test voltage :	DC 3.8V		
Test Mode :	Mode 4		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Margin dB	Detector
1	*	30.0000	42.44	-14.80	27.64	40.00	-12.36	QP
2		50.5859	38.44	-11.15	27.29	40.00	-12.71	QP
3		76.7806	41.62	-16.48	25.14	40.00	-14.86	QP
4		196.5098	40.62	-13.26	27.36	43.50	-16.14	QP
5		307.8312	37.21	-9.50	27.71	46.00	-18.29	QP
6		699.3043	32.24	-2.61	29.63	46.00	-16.37	QP

Remark:

Correct Factor = Cable loss + Antenna factor – Preamplifier;

Level = Reading Level + Correct Factor; Margin = Level - Limit;

**3.2.8 TEST RESULTS (1ghz~40ghZ)**

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Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBUV)	(dB)	(dB)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	
operation frequency:5180									
V	10360	56.39	49.05	15.3	37.39	60.03	68.2	-8.17	PK
V	10360	41.24	49.05	15.3	37.39	44.88	54	-9.12	AV
V	15540	56.67	49.16	15.27	40.45	63.23	74	-10.77	PK
V	15540	39.13	49.16	15.27	40.45	45.69	54	-8.31	AV
H	10360	56.01	49.05	15.3	37.39	59.65	68.2	-8.55	PK
H	10360	40.48	49.05	15.3	37.39	44.12	54	-9.88	AV
H	15540	59.16	49.16	15.27	40.45	65.72	74	-8.28	PK
H	15540	38.05	49.16	15.27	40.45	44.61	54	-9.39	AV
operation frequency:5200									
V	10400	57.42	49.09	15.34	37.42	61.09	68.2	-7.11	PK
V	10400	39.37	49.09	15.34	37.42	43.04	54	-10.96	AV
V	15600	59.46	49.18	15.29	40.47	66.04	74	-7.96	PK
V	15600	38.14	49.18	15.29	40.47	44.72	54	-9.28	AV
H	10400	56.93	49.09	15.34	37.42	60.60	68.2	-7.60	PK
H	10400	39.75	49.09	15.34	37.42	43.42	54	-10.58	AV
H	15600	59.47	49.18	15.29	40.47	66.05	74	-7.95	PK
H	15600	38.34	49.18	15.29	40.47	44.92	54	-9.08	AV
operation frequency:5240									
V	10480	58.56	49.11	15.37	37.46	62.28	68.2	-5.92	PK
V	10480	39.27	49.11	15.37	37.46	42.99	54	-11.01	AV
V	15720	59.13	49.21	15.34	40.51	65.77	74	-8.23	PK
V	15720	38.34	49.21	15.34	40.51	44.98	54	-9.02	AV
H	10480	57.28	49.11	15.37	31.31	54.85	68.2	-13.35	PK
H	10480	45.53	49.11	15.37	31.31	43.10	54	-10.90	AV
H	15720	57.48	49.21	15.34	40.51	64.12	74	-9.88	PK
H	15720	37.56	49.21	15.34	40.51	44.20	54	-9.80	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBUV)	(dB)	(dB)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	
operation frequency:5180									
V	10360	56.18	49.05	15.3	37.39	59.82	68.2	-8.38	PK
V	10360	38.64	49.05	15.3	37.39	42.28	54	-11.72	AV
V	15540	56.56	49.16	15.27	40.45	63.12	74	-10.88	PK
V	15540	38.28	49.16	15.27	40.45	44.84	54	-9.16	AV
H	10360	56.62	49.05	15.3	37.39	60.26	68.2	-7.94	PK
H	10360	39.38	49.05	15.3	37.39	43.02	54	-10.98	AV
H	15540	54.14	49.16	15.27	40.45	60.70	74	-13.30	PK
H	15540	38.33	49.16	15.27	40.45	44.89	54	-9.11	AV
operation frequency:5200									
V	10400	56.27	49.09	15.34	37.42	59.94	68.2	-8.26	PK
V	10400	39.36	49.09	15.34	37.42	43.03	54	-10.97	AV
V	15600	55.18	49.18	15.29	40.47	61.76	74	-12.24	PK
V	15600	38.24	49.18	15.29	40.47	44.82	54	-9.18	AV
H	10400	55.56	49.09	15.34	37.42	59.23	68.2	-8.97	PK
H	10400	40.74	49.09	15.34	37.42	44.41	54	-9.59	AV
H	15600	55.01	49.18	15.29	40.47	61.59	74	-12.41	PK
H	15600	39.29	49.18	15.29	40.47	45.87	54	-8.13	AV
operation frequency:5240									
V	10480	57.13	49.11	15.37	37.46	60.85	68.2	-7.35	PK
V	10480	40.54	49.11	15.37	37.46	44.26	54	-9.74	AV
V	15720	54.32	49.21	15.34	40.51	60.96	74	-13.04	PK
V	15720	38.68	49.21	15.34	40.51	45.32	54	-8.68	AV
H	10480	57.14	49.11	15.37	31.31	54.71	68.2	-13.49	PK
H	10480	44.66	49.11	15.37	31.31	42.23	54	-11.77	AV
H	15720	55.37	49.21	15.34	40.51	62.01	74	-11.99	PK
H	15720	39.24	49.21	15.34	40.51	45.88	54	-8.12	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	10380	56.73	49.07	15.33	37.41	60.40	68.2	-7.80	PK
V	10380	39.24	49.07	15.33	37.41	42.91	54	-11.09	AV
V	15570	56.29	49.17	15.28	40.46	62.86	74	-11.14	PK
V	15570	38.38	49.17	15.28	40.46	44.95	54	-9.05	AV
H	10380	56.64	49.07	15.33	37.41	60.31	68.2	-7.89	PK
H	10380	40.36	49.07	15.33	37.41	44.03	54	-9.97	AV
H	15570	54.67	49.17	15.28	40.46	61.24	74	-12.76	PK
H	15570	38.24	49.17	15.28	40.46	44.81	54	-9.19	AV
operation frequency:5230									
V	10460	57.16	49.11	15.37	37.46	60.88	68.2	-7.32	PK
V	10460	39.68	49.11	15.37	37.46	43.40	54	-10.60	AV
V	15690	54.48	49.21	15.34	40.51	61.12	74	-12.88	PK
V	15690	38.33	49.21	15.34	40.51	44.97	54	-9.03	AV
H	10460	57.28	49.11	15.37	31.31	54.85	68.2	-13.35	PK
H	10460	44.84	49.11	15.37	31.31	42.41	54	-11.59	AV
H	15690	55.33	49.21	15.34	40.51	61.97	74	-12.03	PK
H	15690	39.07	49.21	15.34	40.51	45.71	54	-8.29	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	10360	56.79	49.05	15.3	37.39	60.43	68.2	-7.77	PK
V	10360	39.53	49.05	15.3	37.39	43.17	54	-10.83	AV
V	15540	56.14	49.16	15.27	40.45	62.70	74	-11.30	PK
V	15540	38.38	49.16	15.27	40.45	44.94	54	-9.06	AV
H	10360	56.13	49.05	15.3	37.39	59.77	68.2	-8.43	PK
H	10360	38.24	49.05	15.3	37.39	41.88	54	-12.12	AV
H	15540	54.28	49.16	15.27	40.45	60.84	74	-13.16	PK
H	15540	39.39	49.16	15.27	40.45	45.95	54	-8.05	AV
operation frequency:5200									
V	10400	56.57	49.09	15.34	37.42	60.24	68.2	-7.96	PK
V	10400	41.71	49.09	15.34	37.42	45.38	54	-8.62	AV
V	15600	55.59	49.18	15.29	40.47	62.17	74	-11.83	PK
V	15600	40.34	49.18	15.29	40.47	46.92	54	-7.08	AV
H	10400	55.18	49.09	15.34	37.42	58.85	68.2	-9.35	PK
H	10400	40.56	49.09	15.34	37.42	44.23	54	-9.77	AV
H	15600	55.07	49.18	15.29	40.47	61.65	74	-12.35	PK
H	15600	41.23	49.18	15.29	40.47	47.81	54	-6.19	AV
operation frequency:5240									
V	10480	57.48	49.11	15.37	37.46	61.20	68.2	-7.00	PK
V	10480	40.36	49.11	15.37	37.46	44.08	54	-9.92	AV
V	15720	54.18	49.21	15.34	40.51	60.82	74	-13.18	PK
V	15720	39.99	49.21	15.34	40.51	46.63	54	-7.37	AV
H	10480	57.44	49.11	15.37	31.31	55.01	68.2	-13.19	PK
H	10480	44.83	49.11	15.37	31.31	42.40	54	-11.60	AV
H	15720	55.84	49.21	15.34	40.51	62.48	74	-11.52	PK
H	15720	40.01	49.21	15.34	40.51	46.65	54	-7.35	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	10380	56.46	49.07	15.33	37.41	60.13	68.2	-8.07	PK
V	10380	40.68	49.07	15.33	37.41	44.35	54	-9.65	AV
V	15570	56.24	49.17	15.28	40.46	62.81	74	-11.19	PK
V	15570	39.56	49.17	15.28	40.46	46.13	54	-7.87	AV
H	10380	56.47	49.07	15.33	37.41	60.14	68.2	-8.06	PK
H	10380	40.35	49.07	15.33	37.41	44.02	54	-9.98	AV
H	15570	54.21	49.17	15.28	40.46	60.78	74	-13.22	PK
H	15570	39.96	49.17	15.28	40.46	46.53	54	-7.47	AV
operation frequency:5230									
V	10460	57.28	49.11	15.37	37.46	61.00	68.2	-7.20	PK
V	10460	41.63	49.11	15.37	37.46	45.35	54	-8.65	AV
V	15690	54.37	49.21	15.34	40.51	61.01	74	-12.99	PK
V	15690	39.25	49.21	15.34	40.51	45.89	54	-8.11	AV
H	10460	57.13	49.11	15.37	31.31	54.70	68.2	-13.50	PK
H	10460	44.24	49.11	15.37	31.31	41.81	54	-12.19	AV
H	15690	55.18	49.21	15.34	40.51	61.82	74	-12.18	PK
H	15690	40.06	49.21	15.34	40.51	46.70	54	-7.30	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5210									
V	10420	56.21	49.07	15.33	37.41	59.88	68.2	-8.32	PK
V	10420	41.68	49.07	15.33	37.41	45.35	54	-8.65	AV
V	15630	56.16	49.17	15.28	40.46	62.73	74	-11.27	PK
V	15630	39.18	49.17	15.28	40.46	45.75	54	-8.25	AV
H	10420	56.16	49.07	15.33	37.41	59.83	68.2	-8.37	PK
H	10420	41.35	49.07	15.33	37.41	45.02	54	-8.98	AV
H	15630	54.08	49.17	15.28	40.46	60.65	74	-13.35	PK
H	15630	40.34	49.17	15.28	40.46	46.91	54	-7.09	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBUV)	(dB)	(dB)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	
operation frequency:5745									
V	11490	54.23	49.05	15.3	37.39	57.87	74	-16.13	PK
V	11490	41.08	49.05	15.3	37.39	44.72	54	-9.28	AV
V	17235	55.39	49.16	15.27	40.45	61.95	68.2	-6.25	PK
V	17235	40.94	49.16	15.27	40.45	47.5	54	-6.50	AV
H	11490	52.38	49.05	15.3	37.39	56.02	74	-17.98	PK
H	11490	42.13	49.05	15.3	37.39	45.77	54	-8.23	AV
H	17235	51.34	49.16	15.27	40.45	57.9	68.2	-10.30	PK
H	17235	40.28	49.16	15.27	40.45	46.84	54	-7.16	AV
operation frequency:5785									
V	11570	51.66	49.09	15.34	37.42	55.33	74	-18.67	PK
V	11570	41.18	49.09	15.34	37.42	44.85	54	-9.15	AV
V	17355	50.34	49.18	15.29	40.47	56.92	68.2	-11.28	PK
V	17355	40.26	49.18	15.29	40.47	46.84	54	-7.16	AV
H	11570	50.68	49.09	15.34	37.42	54.35	74	-19.65	PK
H	11570	42.02	49.09	15.34	37.42	45.69	54	-8.31	AV
H	17355	48.77	49.18	15.29	40.47	55.35	68.2	-12.85	PK
H	17355	40.15	49.18	15.29	40.47	46.73	54	-7.27	AV
operation frequency:5825									
V	11650	52.06	49.11	15.37	37.46	55.78	74	-18.22	PK
V	11650	41.38	49.11	15.37	37.46	45.1	54	-8.90	AV
V	17475	49.24	49.21	15.34	40.51	55.88	68.2	-12.32	PK
V	17475	40.43	49.21	15.34	40.51	47.07	54	-6.93	AV
H	11650	57.48	49.11	15.37	31.31	55.05	74	-18.95	PK
H	11650	48.01	49.11	15.37	31.31	45.58	54	-8.42	AV
H	17475	49.38	49.21	15.34	40.51	56.02	68.2	-12.18	PK
H	17475	40.16	49.21	15.34	40.51	46.8	54	-7.20	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



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Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBUV)	(dB)	(dB)	(dB/m)	(dBUV/m)	(dBUV/m)	(dB)	
operation frequency:5745									
V	11490	49.28	49.05	15.3	37.39	52.92	74	-21.08	PK
V	11490	42.11	49.05	15.3	37.39	45.75	54	-8.25	AV
V	17235	48.56	49.16	15.27	40.45	55.12	68.2	-13.08	PK
V	17235	40.27	49.16	15.27	40.45	46.83	54	-7.17	AV
H	11490	49.35	49.05	15.3	37.39	52.99	74	-21.01	PK
H	11490	41.13	49.05	15.3	37.39	44.77	54	-9.23	AV
H	17235	48.28	49.16	15.27	40.45	54.84	68.2	-13.36	PK
H	17235	40.41	49.16	15.27	40.45	46.97	54	-7.03	AV
operation frequency:5785									
V	11570	52.38	49.09	15.34	37.42	56.05	74	-17.95	PK
V	11570	42.23	49.09	15.34	37.42	45.9	54	-8.10	AV
V	17355	49.14	49.18	15.29	40.47	55.72	68.2	-12.48	PK
V	17355	40.53	49.18	15.29	40.47	47.11	54	-6.89	AV
H	11570	49.38	49.09	15.34	37.42	53.05	74	-20.95	PK
H	11570	43.63	49.09	15.34	37.42	47.3	54	-6.70	AV
H	17355	49.34	49.18	15.29	40.47	55.92	68.2	-12.28	PK
H	17355	40.72	49.18	15.29	40.47	47.3	54	-6.70	AV
operation frequency:5825									
V	11650	51.28	49.11	15.37	37.46	55	74	-19.00	PK
V	11650	41.43	49.11	15.37	37.46	45.15	54	-8.85	AV
V	17475	48.25	49.21	15.34	40.51	54.89	68.2	-13.31	PK
V	17475	40.64	49.21	15.34	40.51	47.28	54	-6.72	AV
H	11650	57.23	49.11	15.37	31.31	54.8	74	-19.20	PK
H	11650	44.37	49.11	15.37	31.31	41.94	54	-12.06	AV
H	17475	49.26	49.21	15.34	40.51	55.9	68.2	-12.30	PK
H	17475	40.64	49.21	15.34	40.51	47.28	54	-6.72	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5755									
V	11510	49.13	49.07	15.33	37.41	52.8	74	-21.20	PK
V	11510	41.58	49.07	15.33	37.41	45.25	54	-8.75	AV
V	17265	49.65	49.17	15.28	40.46	56.22	68.2	-11.98	PK
V	17265	40.23	49.17	15.28	40.46	46.8	54	-7.20	AV
H	11510	48.37	49.07	15.33	37.41	52.04	74	-21.96	PK
H	11510	41.15	49.07	15.33	37.41	44.82	54	-9.18	AV
H	17265	49.93	49.17	15.28	40.46	56.5	68.2	-11.70	PK
H	17265	40.24	49.17	15.28	40.46	46.81	54	-7.19	AV
operation frequency:5795									
V	11590	49.12	49.11	15.37	37.46	52.84	74	-21.16	PK
V	11590	41.28	49.11	15.37	37.46	45	54	-9.00	AV
V	17385	48.43	49.21	15.34	40.51	55.07	68.2	-13.13	PK
V	17385	40.35	49.21	15.34	40.51	46.99	54	-7.01	AV
H	11590	57.54	49.11	15.37	31.31	55.11	74	-18.89	PK
H	11590	44.79	49.11	15.37	31.31	42.36	54	-11.64	AV
H	17385	48.14	49.21	15.34	40.51	54.78	68.2	-13.42	PK
H	17385	40.23	49.21	15.34	40.51	46.87	54	-7.13	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac HT20

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5745									
V	11490	49.38	49.05	15.3	37.39	53.02	74	-20.98	PK
V	11490	42.44	49.05	15.3	37.39	46.08	54	-7.92	AV
V	17235	48.62	49.16	15.27	40.45	55.18	68.2	-13.02	PK
V	17235	40.28	49.16	15.27	40.45	46.84	54	-7.16	AV
H	11490	48.46	49.05	15.3	37.39	52.1	74	-21.90	PK
H	11490	41.37	49.05	15.3	37.39	45.01	54	-8.99	AV
H	17235	48.24	49.16	15.27	40.45	54.8	68.2	-13.40	PK
H	17235	40.43	49.16	15.27	40.45	46.99	54	-7.01	AV
operation frequency:5785									
V	11570	48.41	49.09	15.34	37.42	52.08	74	-21.92	PK
V	11570	41.88	49.09	15.34	37.42	45.55	54	-8.45	AV
V	17355	49.16	49.18	15.29	40.47	55.74	68.2	-12.46	PK
V	17355	40.42	49.18	15.29	40.47	47	54	-7.00	AV
H	11570	49.68	49.09	15.34	37.42	53.35	74	-20.65	PK
H	11570	43.14	49.09	15.34	37.42	46.81	54	-7.19	AV
H	17355	49.33	49.18	15.29	40.47	55.91	68.2	-12.29	PK
H	17355	40.81	49.18	15.29	40.47	47.39	54	-6.61	AV
operation frequency:5825									
V	11650	49.18	49.11	15.37	37.46	52.9	74	-21.10	PK
V	11650	41.36	49.11	15.37	37.46	45.08	54	-8.92	AV
V	17475	48.15	49.21	15.34	40.51	54.79	68.2	-13.41	PK
V	17475	40.63	49.21	15.34	40.51	47.27	54	-6.73	AV
H	11650	57.74	49.11	15.37	31.31	55.31	74	-18.69	PK
H	11650	44.27	49.11	15.37	31.31	41.84	54	-12.16	AV
H	17475	48.36	49.21	15.34	40.51	55	68.2	-13.20	PK
H	17475	40.57	49.21	15.34	40.51	47.21	54	-6.79	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac HT40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5755									
V	11510	49.22	49.07	15.33	37.41	52.89	74	-21.11	PK
V	11510	42.84	49.07	15.33	37.41	46.51	54	-7.49	AV
V	17265	48.63	49.17	15.28	40.46	55.2	68.2	-13.00	PK
V	17265	41.17	49.17	15.28	40.46	47.74	54	-6.26	AV
H	11510	48.34	49.07	15.33	37.41	52.01	74	-21.99	PK
H	11510	42.46	49.07	15.33	37.41	46.13	54	-7.87	AV
H	17265	48.85	49.17	15.28	40.46	55.42	68.2	-12.78	PK
H	17265	40.23	49.17	15.28	40.46	46.8	54	-7.20	AV
operation frequency:5795									
V	11590	49.44	49.11	15.37	37.46	53.16	74	-20.84	PK
V	11590	41.36	49.11	15.37	37.46	45.08	54	-8.92	AV
V	17385	48.18	49.21	15.34	40.51	54.82	68.2	-13.38	PK
V	17385	40.62	49.21	15.34	40.51	47.26	54	-6.74	AV
H	11590	57.24	49.11	15.37	31.31	54.81	74	-19.19	PK
H	11590	44.76	49.11	15.37	31.31	42.33	54	-11.67	AV
H	17385	48.28	49.21	15.34	40.51	54.92	68.2	-13.28	PK
H	17385	40.14	49.21	15.34	40.51	46.78	54	-7.22	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11ac HT80

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5775									
V	11550	48.33	49.07	15.33	37.41	52	74	-22.00	PK
V	11550	42.88	49.07	15.33	37.41	46.55	54	-7.45	AV
V	17325	49.64	49.17	15.28	40.46	56.21	68.2	-11.99	PK
V	17325	40.13	49.17	15.28	40.46	46.7	54	-7.30	AV
H	11550	48.37	49.07	15.33	37.41	52.04	74	-21.96	PK
H	11550	41.26	49.07	15.33	37.41	44.93	54	-9.07	AV
H	17325	48.48	49.17	15.28	40.46	55.05	68.2	-13.15	PK
H	17325	40.64	49.17	15.28	40.46	47.21	54	-6.79	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

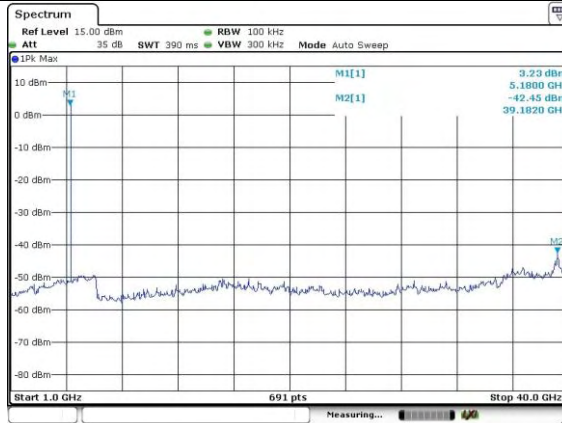


For Conducted

During the test, pre-scan the all modulation, the modulation below were found to have the worst test results, as reflected in the report.

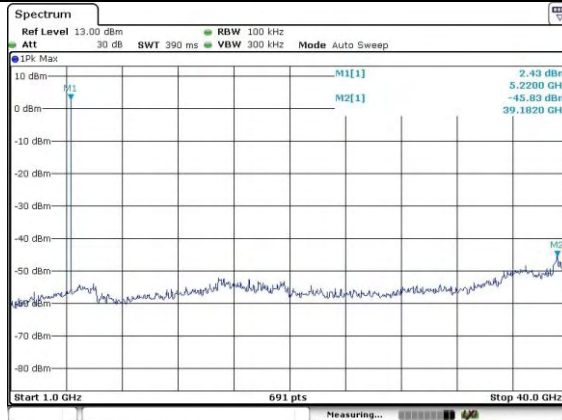
The antenna gain and cable loss are included in the test plots.

Test channel:	Band 1/802.11a Lowest channel
Limits(dB/m):	-27



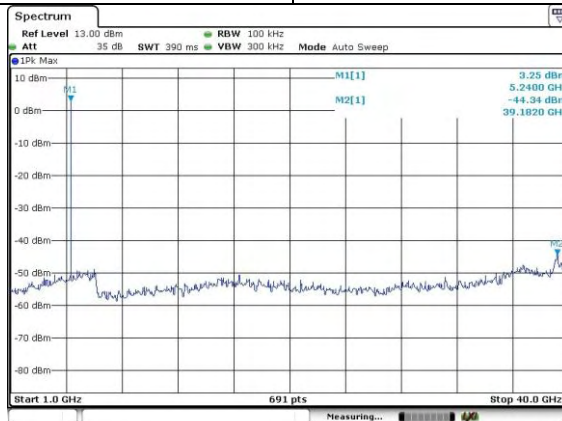
0.03Hz~40GHz

Test channel:	Band 1/802.11a Middle channel
Limits(dB/m):	-27



0.03GHz~40GHz

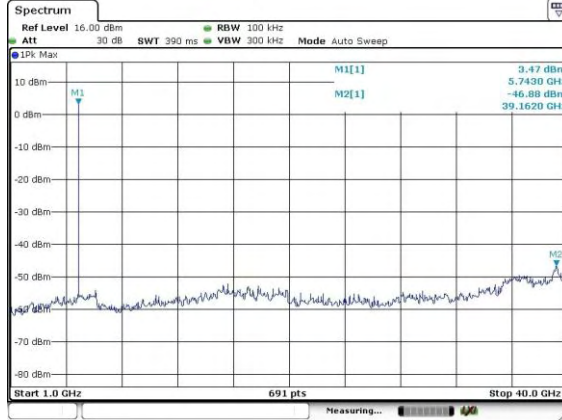
Test channel:	Band 1/802.11a Highest channel
Limits(dB/m):	-27



0.03GHz~40GHz

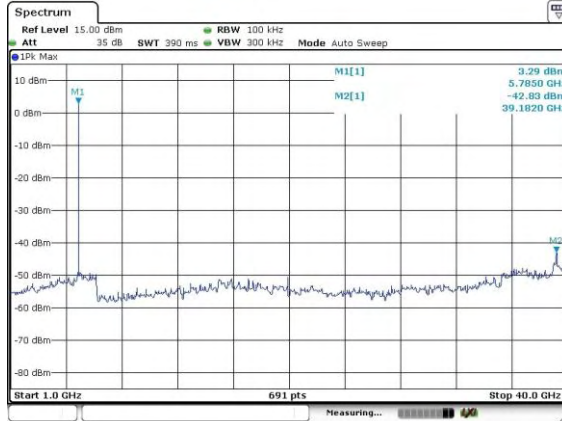


Test channel:	Band 4/802.11a Lowest channel
Limits(dB/m):	-27



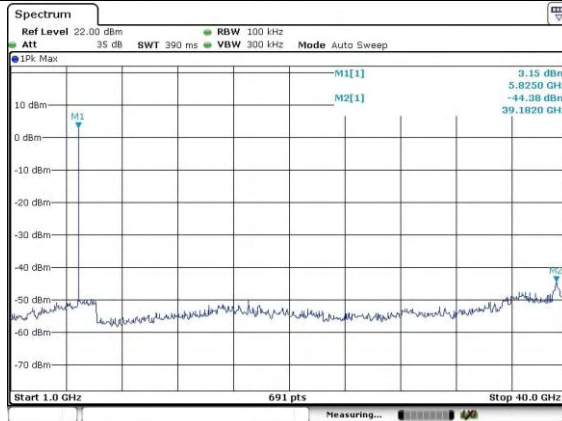
0.03Hz~40GHz

Test channel:	Band 4/802.11a Middle channel
Limits(dB/m):	-27



0.03GHz~40GHz

Test channel:	Band 4/802.11a Highest channel
Limits(dB/m):	-27



0.03GHz~40GHz

**3.3 RADIATED BAND EMISSION MEASUREMENT****3.3.1 TEST REQUIREMENT:**

RSS-247 Section 5.5

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	5000MHz
Stop Frequency	5420MHz
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 10Hz for Average

3.3.2 TEST PROCEDURE

Above 1GHz test procedure as below:

- a. 1. The EUT was placed on the top of a rotating table 0.1 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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.
- g. Test the EUT in the lowest channel,the Highest channel

Note:

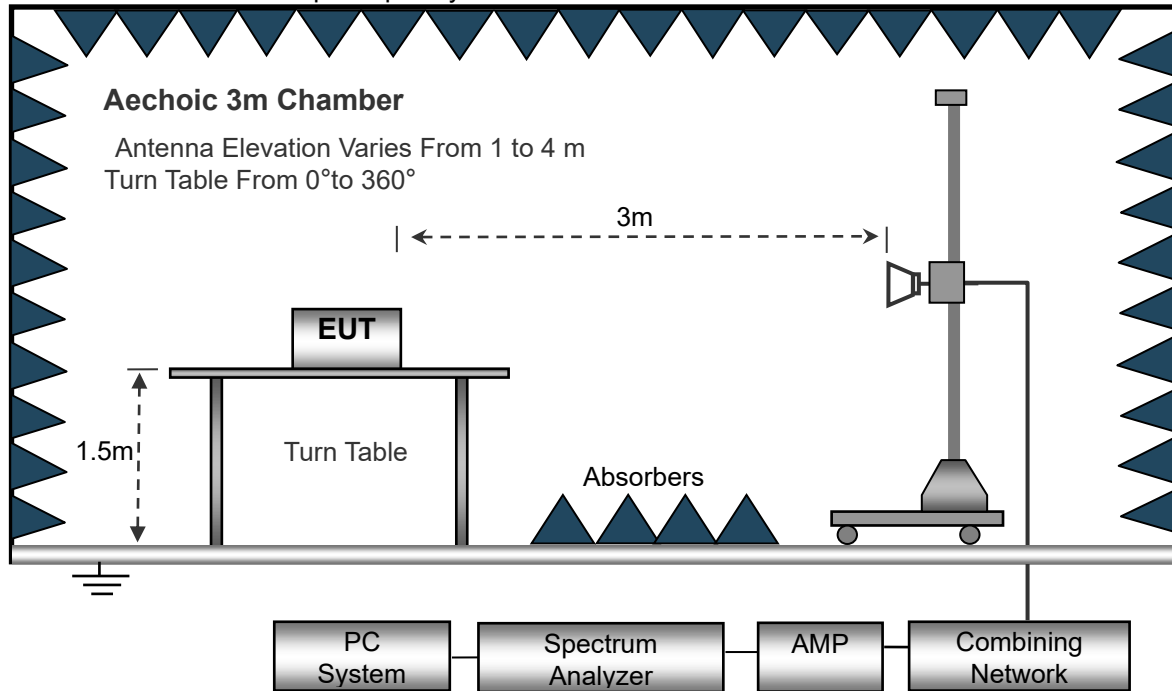
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP

Radiated Emission Test-Up Frequency Above 1GHz



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULT

802.11a

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	5150	53.13	49.12	15.6	37.34	56.95	74	-17.05	PK
V	5150	39.32	49.12	15.6	37.34	43.14	54	-10.86	AV
V	5145	54.24	49.19	15.24	40.43	60.72	74	-13.28	PK
V	5145	36.38	49.19	15.24	40.43	42.86	54	-11.14	AV
H	5150	52.92	49.12	15.6	37.34	56.74	74	-17.26	PK
H	5150	37.54	49.12	15.6	37.34	41.36	54	-12.64	AV
H	5145	54.38	49.19	15.24	40.43	60.86	74	-13.14	PK
H	5145	33.19	49.19	15.24	40.43	39.67	54	-14.33	AV
operation frequency:5240									
V	5350	53.14	49.13	15.32	37.46	56.79	74	-17.21	PK
V	5350	35.43	49.13	15.32	37.46	39.08	54	-14.92	AV
V	5370	53.28	49.24	15.36	40.51	59.91	74	-14.09	PK
V	5370	32.24	49.24	15.36	40.51	38.87	54	-15.13	AV
H	5350	52.16	49.13	15.32	31.31	49.66	74	-24.34	PK
H	5350	40.27	49.13	15.32	31.31	37.77	54	-16.23	AV
H	5370	52.44	49.24	15.36	40.51	59.07	74	-14.93	PK
H	5370	32.53	49.24	15.36	40.51	39.16	54	-14.84	AV
<p>Remark:</p> <ol style="list-style-type: none"> Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier, Margin= Emission Level - Limit If peak below the average limit, the average emission was no test. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. 									



802.11n HT20

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	5150	51.28	49.12	15.6	37.34	55.1	74	-18.9	PK
V	5150	33.16	49.12	15.6	37.34	36.98	54	-17.02	AV
V	5145	51.44	49.19	15.24	40.43	57.92	74	-16.08	PK
V	5145	33.13	49.19	15.24	40.43	39.61	54	-14.39	AV
H	5150	51.29	49.12	15.6	37.34	55.11	74	-18.89	PK
H	5150	33.48	49.12	15.6	37.34	37.3	54	-16.7	AV
H	5145	50.14	49.19	15.24	40.43	56.62	74	-17.38	PK
H	5145	32.66	49.19	15.24	40.43	39.14	54	-14.86	AV
operation frequency:5240									
V	5350	53.17	49.13	15.32	37.46	56.82	74	-17.18	PK
V	5350	34.19	49.13	15.32	37.46	37.84	54	-16.16	AV
V	5370	50.22	49.24	15.36	40.51	56.85	74	-17.15	PK
V	5370	33.51	49.24	15.36	40.51	40.14	54	-13.86	AV
H	5350	54.16	49.13	15.32	31.31	51.66	74	-22.34	PK
H	5350	36.24	49.13	15.32	31.31	33.74	54	-20.26	AV
H	5370	51.22	49.24	15.36	40.51	57.85	74	-16.15	PK
H	5370	33.32	49.24	15.36	40.51	39.95	54	-14.05	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac HT20

Polar (H/V)	Frequency	Meter Reading	Pre- amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5180									
V	5150	52.18	49.12	15.33	37.41	55.8	74	-18.2	PK
V	5150	34.54	49.12	15.33	37.41	38.16	54	-15.84	AV
V	5145	51.23	49.19	15.28	40.46	57.78	74	-16.22	PK
V	5145	33.68	49.19	15.28	40.46	40.23	54	-13.77	AV
H	5150	52.44	49.12	15.33	37.41	56.06	74	-17.94	PK
H	5150	34.63	49.12	15.33	37.41	38.25	54	-15.75	AV
H	5145	50.44	49.19	15.28	40.46	56.99	74	-17.01	PK
H	5145	33.51	49.19	15.28	40.46	40.06	54	-13.94	AV
operation frequency:5240									
V	5350	53.68	49.13	15.32	37.46	57.33	74	-16.67	PK
V	5350	36.33	49.13	15.32	37.46	39.98	54	-14.02	AV
V	5370	50.17	49.24	15.36	40.51	56.8	74	-17.2	PK
V	5370	33.65	49.24	15.36	40.51	40.28	54	-13.72	AV
H	5350	53.12	49.13	15.32	31.31	50.62	74	-23.38	PK
H	5350	40.74	49.13	15.32	31.31	38.24	54	-15.76	AV
H	5370	51.81	49.24	15.36	40.51	58.44	74	-15.56	PK
H	5370	35.39	49.24	15.36	40.51	42.02	54	-11.98	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11n HT40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	5150	52.14	49.12	15.6	37.39	56.01	74	-17.99	PK
V	5150	35.47	49.12	15.6	37.39	39.34	54	-14.66	AV
V	5145	51.51	49.19	15.24	40.45	58.01	74	-15.99	PK
V	5145	34.66	49.19	15.24	40.45	41.16	54	-12.84	AV
H	5150	52.67	49.12	15.6	37.39	56.54	74	-17.46	PK
H	5150	34.75	49.12	15.6	37.39	38.62	54	-15.38	AV
H	5145	50.13	49.19	15.24	40.45	56.63	74	-17.37	PK
H	5145	35.68	49.19	15.24	40.45	42.18	54	-11.82	AV
operation frequency:5230									
V	5350	53.65	49.13	15.34	37.46	57.32	74	-16.68	PK
V	5350	37.61	49.13	15.34	37.46	41.28	54	-12.72	AV
V	5370	50.23	49.24	15.35	40.51	56.85	74	-17.15	PK
V	5370	36.37	49.24	15.35	40.51	42.99	54	-11.01	AV
H	5350	54.24	49.13	15.34	31.31	51.76	74	-22.24	PK
H	5350	41.23	49.13	15.34	31.31	38.75	54	-15.25	AV
H	5370	52.67	49.24	15.35	40.51	59.29	74	-14.71	PK
H	5370	36.86	49.24	15.35	40.51	43.48	54	-10.52	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



802.11ac HT40

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5190									
V	5150	52.83	49.12	15.32	37.41	56.44	74	-17.56	PK
V	5150	37.68	49.12	15.32	37.41	41.29	54	-12.71	AV
V	5145	52.44	49.19	15.36	40.46	59.07	74	-14.93	PK
V	5145	36.52	49.19	15.36	40.46	43.15	54	-10.85	AV
H	5150	52.94	49.12	15.32	37.41	56.55	74	-17.45	PK
H	5150	37.63	49.12	15.32	37.41	41.24	54	-12.76	AV
H	5145	51.27	49.19	15.36	40.46	57.9	74	-16.1	PK
H	5145	36.64	49.19	15.36	40.46	43.27	54	-10.73	AV
operation frequency:5230									
V	5350	54.62	49.13	15.34	37.34	58.17	74	-15.83	PK
V	5350	36.28	49.13	15.34	37.34	39.83	54	-14.17	AV
V	5370	51.46	49.24	15.35	40.43	58	74	-16	PK
V	5370	36.94	49.24	15.35	40.43	43.48	54	-10.52	AV
H	5350	54.72	49.13	15.34	37.34	58.27	74	-15.73	PK
H	5350	41.38	49.13	15.34	37.34	44.93	54	-9.07	AV
H	5370	50.23	49.24	15.35	40.43	56.77	74	-17.23	PK
H	5370	35.84	49.24	15.35	40.43	42.38	54	-11.62	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

802.11ac HT80

Polar (H/V)	Frequency	Meter Reading	Pre-amplifier	Cable Loss	Antenna Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBuV)	(dB)	(dB)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
operation frequency:5210									
V	5350	52.17	49.13	15.32	37.48	55.84	74	-18.16	PK
V	5350	35.83	49.13	15.32	37.48	39.5	54	-14.5	AV
V	5370	51.24	49.24	15.36	40.42	57.78	74	-16.22	PK
V	5370	35.63	49.24	15.36	40.42	42.17	54	-11.83	AV
H	5350	52.48	49.13	15.32	37.48	56.15	74	-17.85	PK
H	5350	36.24	49.13	15.32	37.48	39.91	54	-14.09	AV
H	5370	50.23	49.24	15.36	40.42	56.77	74	-17.23	PK
H	5370	35.27	49.24	15.36	40.42	41.81	54	-12.19	AV

Remark:

1. Emission Level = Meter Reading + Antenna Factor + Cable Loss – Pre-amplifier,
Margin= Emission Level - Limit
2. If peak below the average limit, the average emission was no test.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



3.3 CONDUCTED BAND EMISSION MEASUREMENT

3.3.1 TEST REQUIREMENT:

FCC Part15 C Section 15.209 and 15.407

(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.

(4) 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 10dBm/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.

Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	5150MHz	5725MHz
Stop Frequency	5250MHz	5850MHz
RB / VB (emission in restricted band)	1 MHz / 3 MHz for Peak, 1 MHz / 10Hz for Average	

3.3.2 TEST PROCEDURE

Test method: FCC KDB 789033 G)& Parts 15.407(b)(4) & 15.209(a)

3.3.3 DEVIATION FROM TEST STANDARD

No deviation

3.3.4 TEST SETUP



3.3.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.3.6 TEST RESULT

Note: Ref offset= antenna +cable loss

802.11a

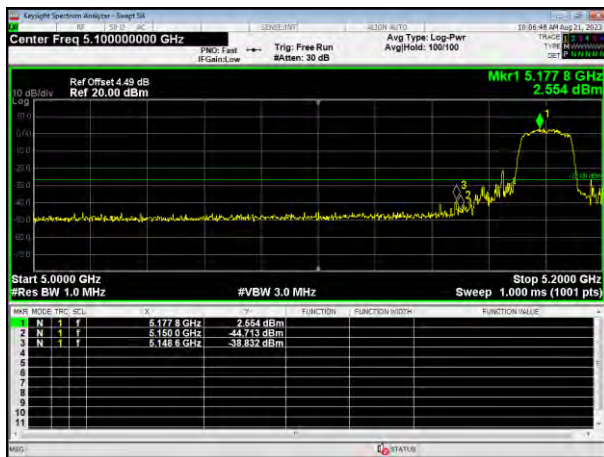


5180MHz



5240MHz

802.11n HT20

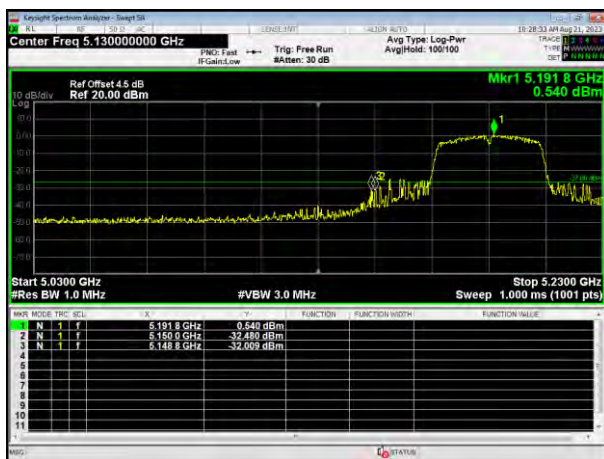


5180MHz

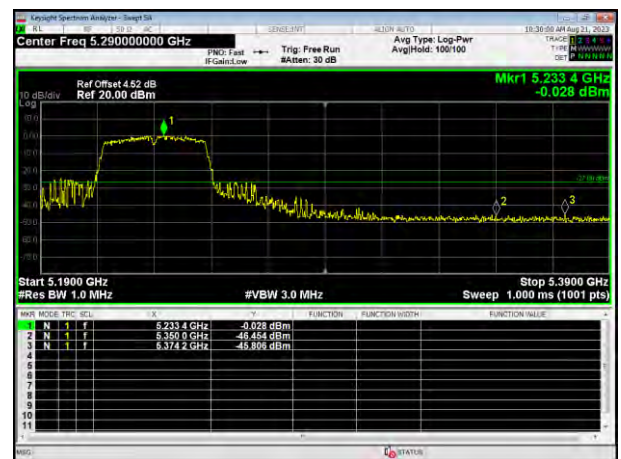


5240MHz

802.11n HT40



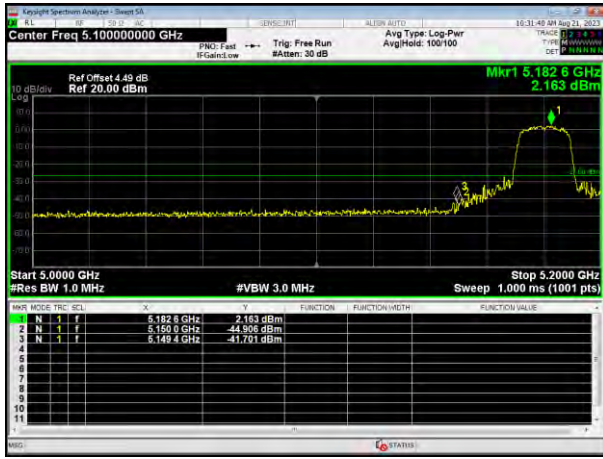
5190MHz



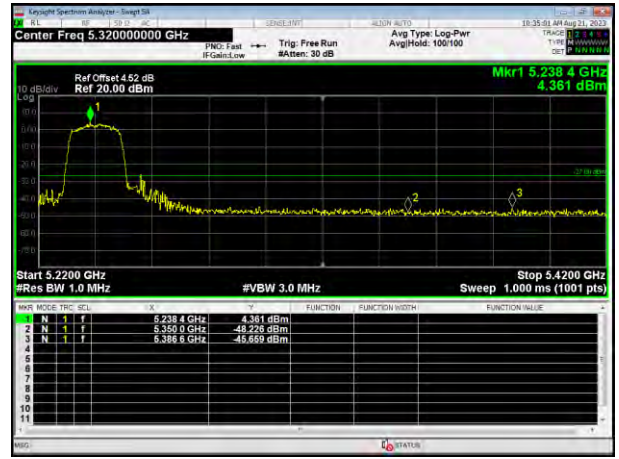
5230MHz



802.11ac HT20

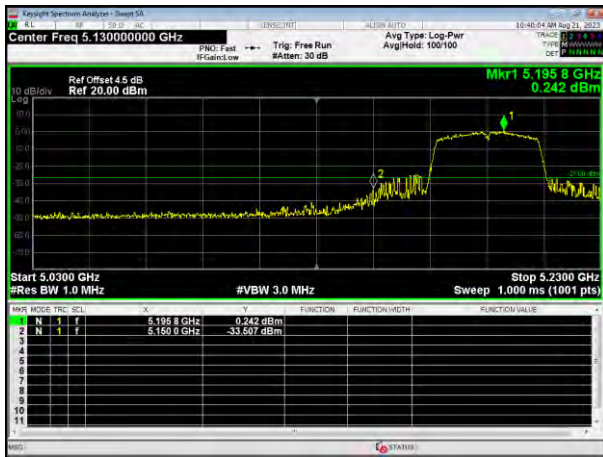


5180MHz



5240MHz

802.11ac HT40



5190MHz



5230MHz

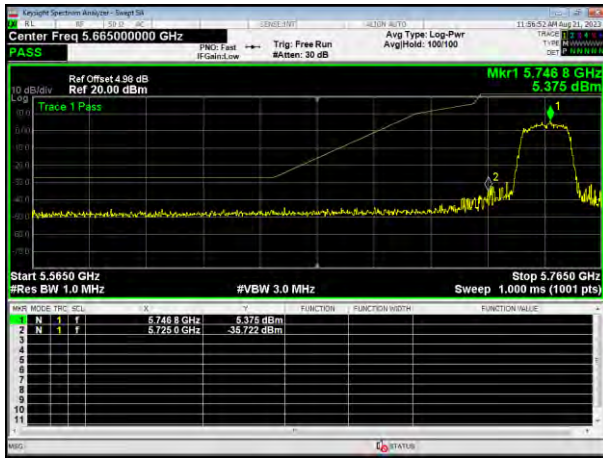
802.11ac HT80



5210MHz



802.11a



5745MHz



5825MHz

802.11n HT20

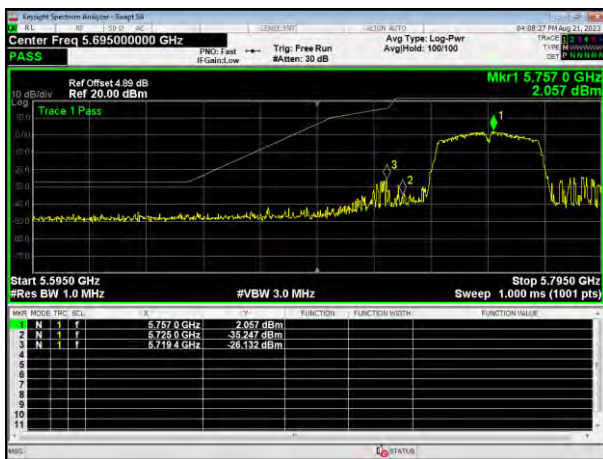


5745MHz



5825MHz

802.11n HT40



5755MHz



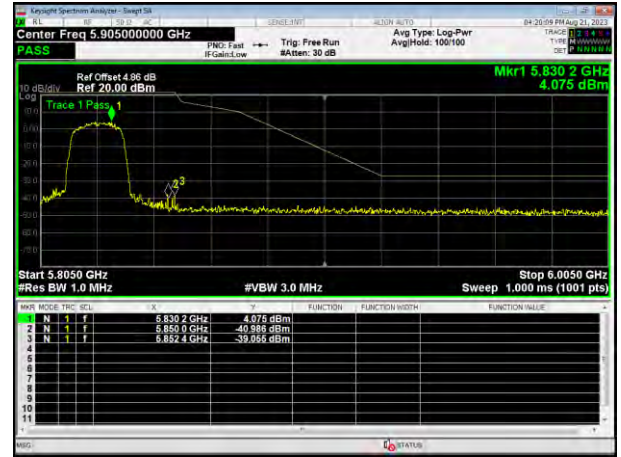
5795MHz



802.11ac HT20

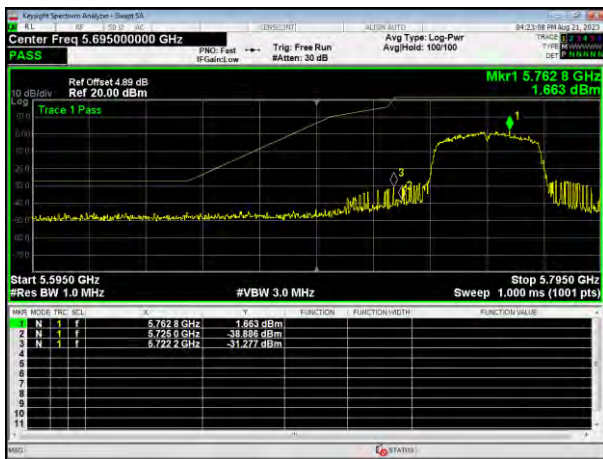


5745MHz



5825MHz

802.11ac HT40



5755MHz



5795MHz

802.11ac HT80



5775MHz



4. AVERAGING OUTPUT POWER

4.1 APPLIED PROCEDURES / LIMIT

For mobile and portable 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.
For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

4.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
 - (ii) Set RBW = 1 MHz.
 - (iii) Set VBW \geq 3 MHz.
 - (iv) Number of points in sweep $\geq 2 \times$ span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)
 - (v) Sweep time = auto.
 - (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
 - (vii) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”
 - (viii) Trace average at least 100 traces in power averaging (rms) mode.
 - (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument’s band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

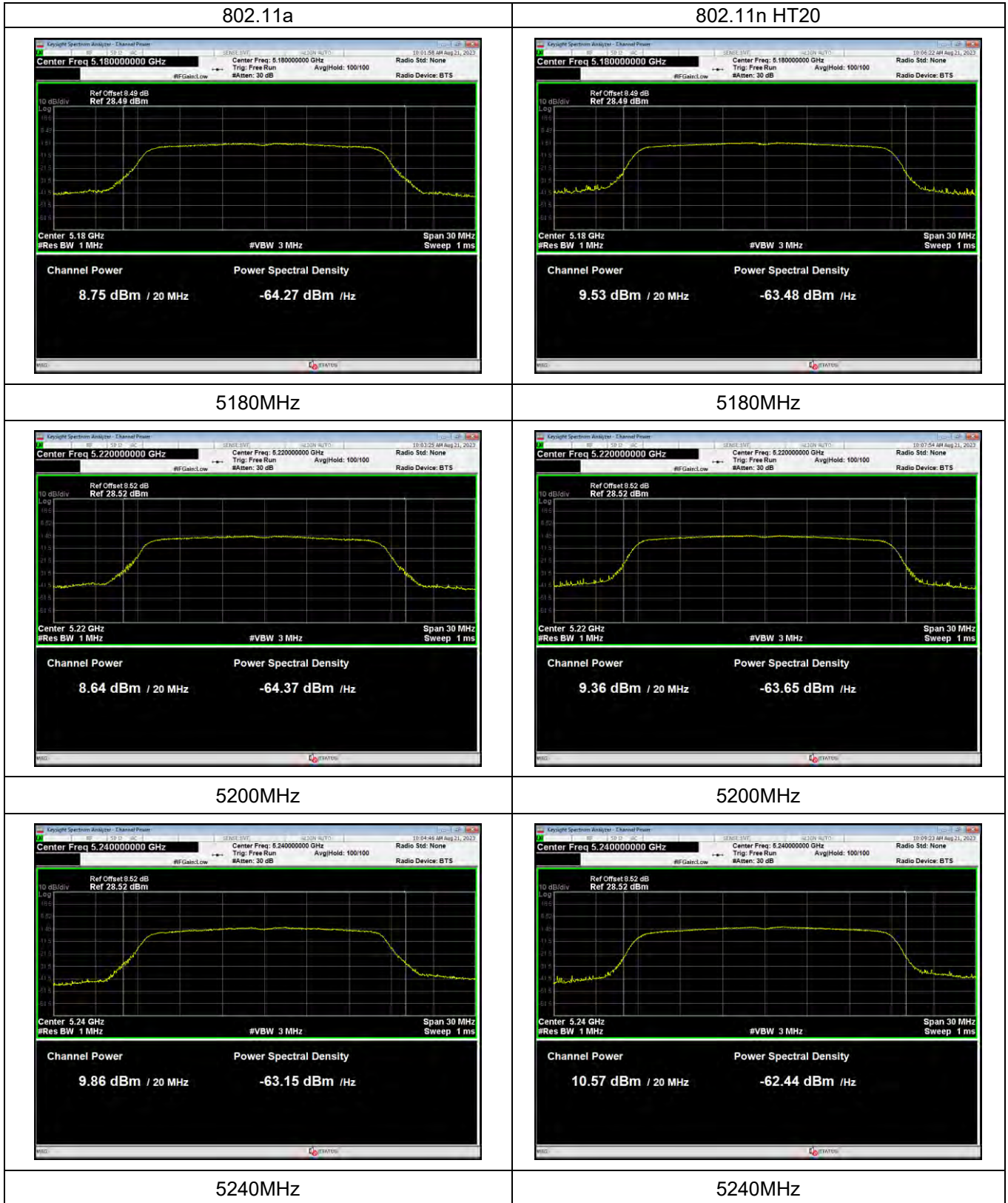


4.1.5 TEST RESULTS

Temperature:	25 °C	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage :	DC 3.8V

Band	Mode	Test Channel	Average Output Power (dBm)	Duty factor (dB)	Total Output Power(dB)	LIMIT (dBm)
Band 1	802.11a	Low	8.745	0.7	9.445	23.98
		Middle	8.64	0.7	9.34	23.98
		High	9.856	0.7	10.556	23.98
	802.11n HT20	Low	9.527	0.11	9.637	23.98
		Middle	9.359	0.11	9.469	23.98
		High	10.575	0.11	10.685	23.98
	802.11n HT40	Low	10.087	0.21	10.297	23.98
		High	9.906	0.21	10.116	23.98
	802.11ac HT20	Low	9.37	0.2	9.57	23.98
		Middle	9.304	0.2	9.504	23.98
		High	10.442	0.2	10.642	23.98
	802.11ac HT40	Low	9.738	0.38	10.118	23.98
		High	9.708	0.38	10.088	23.98
802.11ac HT80	/	9.948	0.4	10.348	23.98	

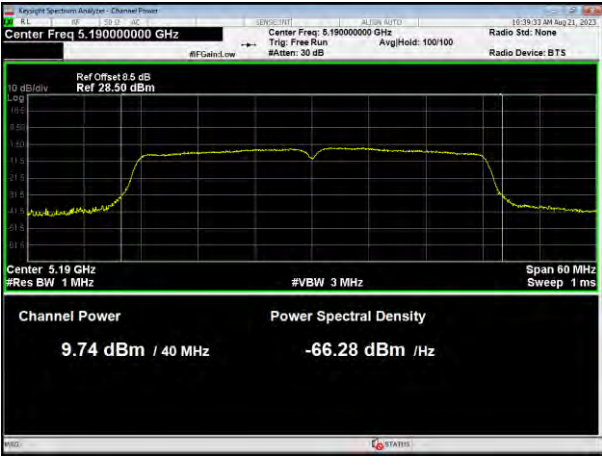
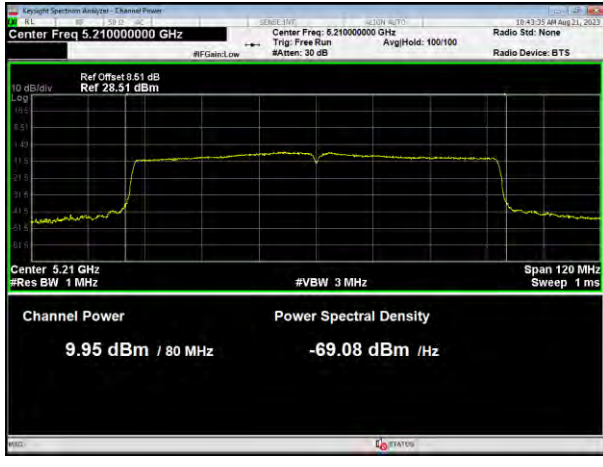
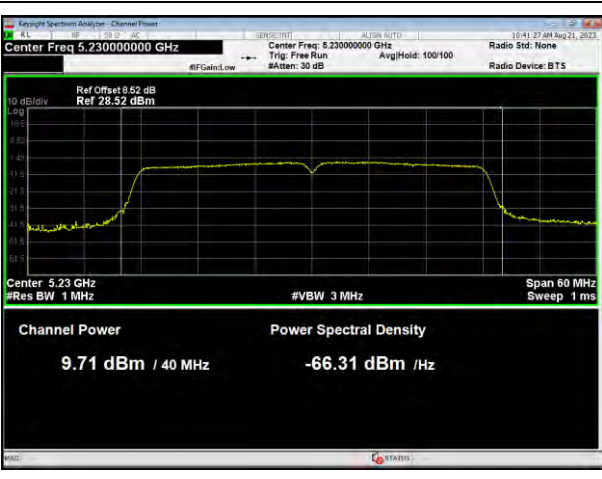
Band	Mode	Test Channel	Average Output Power (dBm)	Duty factor (dB)	Total Output Power(dB)	LIMIT (dBm)
Band 4	802.11a	Low	9.989	0.69	10.679	30
		Middle	10.086	0.69	10.776	30
		High	10.511	0.69	11.201	30
	802.11n HT20	Low	10.501	0.11	10.611	30
		Middle	11.004	0.11	11.114	30
		High	11.423	0.11	11.533	30
	802.11n HT40	Low	10.506	0.21	10.716	30
		High	10.441	0.21	10.651	30
	802.11ac HT20	Low	9.938	0.2	10.138	30
		Middle	10.188	0.2	10.388	30
		High	10.634	0.2	10.834	30
	802.11ac HT40	Low	9.893	0.38	10.273	30
		High	9.934	0.38	10.314	30
802.11ac HT80	/	9.643	0.67	10.313	30	





<p style="text-align: center;">802.11n HT40</p> <p style="text-align: center;">Channel Power Power Spectral Density 10.09 dBm / 40 MHz -65.93 dBm / Hz</p>	<p style="text-align: center;">802.11ac HT20</p> <p style="text-align: center;">Channel Power Power Spectral Density 9.37 dBm / 20 MHz -63.64 dBm / Hz</p>
<p style="text-align: center;">5190MHz</p> <p style="text-align: center;">Channel Power Power Spectral Density 9.91 dBm / 40 MHz -66.11 dBm / Hz</p>	<p style="text-align: center;">5180MHz</p> <p style="text-align: center;">Channel Power Power Spectral Density 9.30 dBm / 20 MHz -63.71 dBm / Hz</p>
<p style="text-align: center;">5230MHz</p> <p style="text-align: center;">Channel Power Power Spectral Density 10.44 dBm / 20 MHz -62.57 dBm / Hz</p>	<p style="text-align: center;">5200MHz</p> <p style="text-align: center;">Channel Power Power Spectral Density 10.44 dBm / 20 MHz -62.57 dBm / Hz</p>
<p style="text-align: center;">5240MHz</p>	



802.11ac HT40	802.11ac HT80
 <p>Center Freq: 5.19000000 GHz Center Freq: 5.19000000 GHz Trig: Free Run #Acten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 8.5 dB Ref: 28.50 dBm</p> <p>Center: 5.19 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 60 MHz Sweep: 1 ms</p> <p>Channel Power: 9.74 dBm / 40 MHz Power Spectral Density: -66.28 dBm / Hz</p>	 <p>Center Freq: 5.21000000 GHz Center Freq: 5.21000000 GHz Trig: Free Run #Acten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 8.51 dB Ref: 28.51 dBm</p> <p>Center: 5.21 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 120 MHz Sweep: 1 ms</p> <p>Channel Power: 9.95 dBm / 80 MHz Power Spectral Density: -69.08 dBm / Hz</p>
5190MHz	5210MHz
 <p>Center Freq: 5.23000000 GHz Center Freq: 5.23000000 GHz Trig: Free Run #Acten: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 8.52 dB Ref: 28.52 dBm</p> <p>Center: 5.23 GHz #Res BW: 1 MHz #VBW: 3 MHz Span: 60 MHz Sweep: 1 ms</p> <p>Channel Power: 9.71 dBm / 40 MHz Power Spectral Density: -66.31 dBm / Hz</p>	
5230MHz	



802.11a



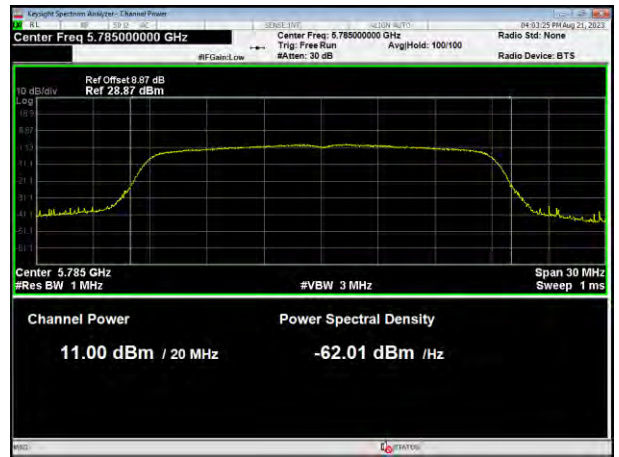
802.11n HT20



5745MHz



5745MHz



5785MHz



5785MHz

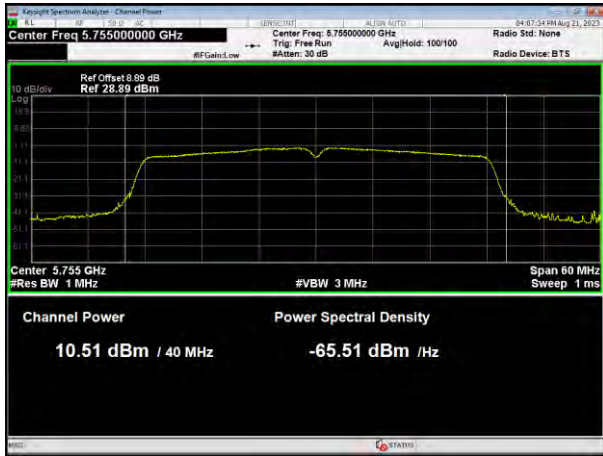


5825MHz

5825MHz



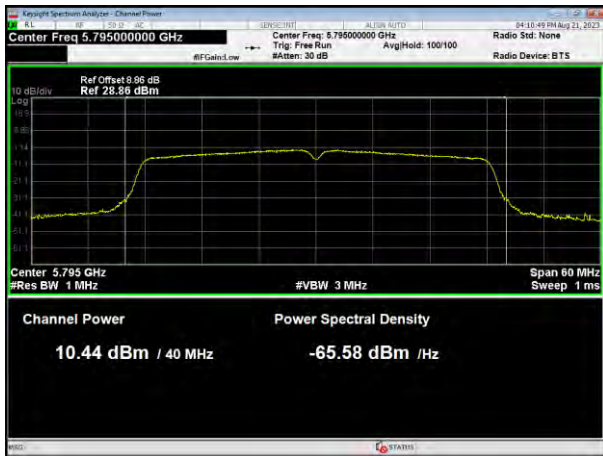
802.11n HT40



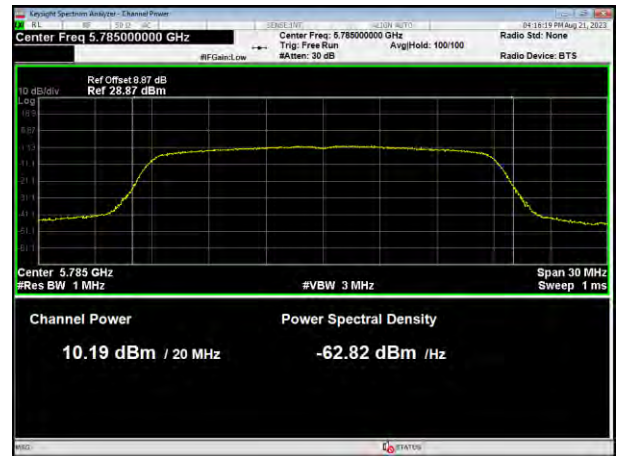
802.11ac HT20



5755MHz



5745MHz



5795MHz



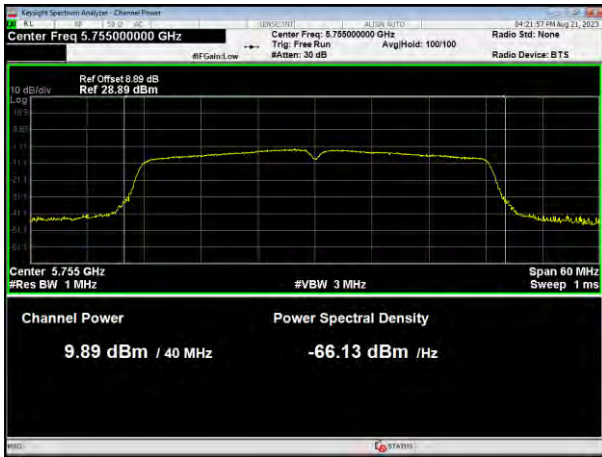
5785MHz



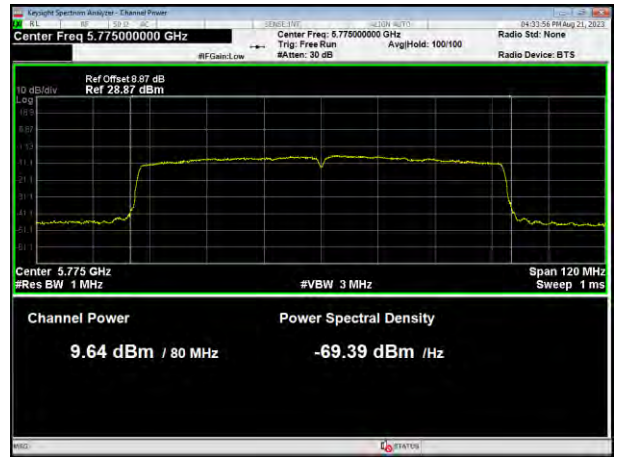
5825MHz



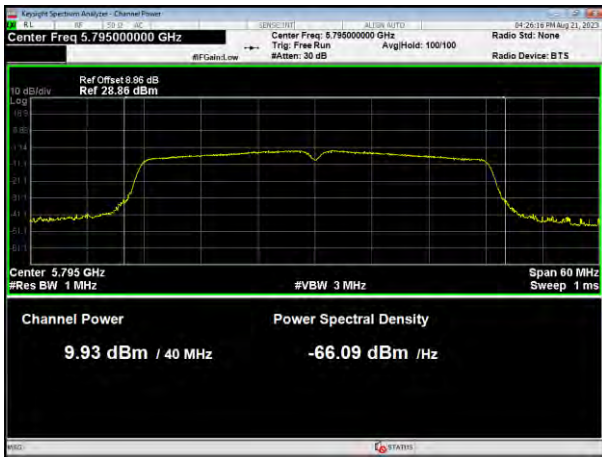
802.11ac HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz



5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.
In addition, the maximum power spectral density shall not exceed 30 dBm in any 500 kHz band.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW ≥ 1MHz for band 1 RBW ≥ 510KHz for band 4
VB	VBW ≥ 3RBW
Detector	RMS (i.e., power averaging).
Trace	Max Hold
Sweep Time	Auto

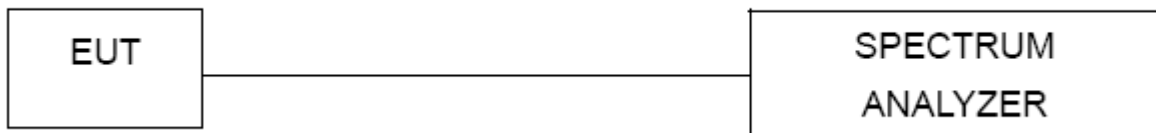
5.1.1 TEST PROCEDURE

- Place the EUT on the table and set it in transmitting mode.
- The testing follows FCC KDB 789033 D02.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Spectrum.
- For U-NII1, U-NII-2A, U-NII-2C Band:
Set RBW=1MHz, VBW=3MHz, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
For U-NII-3 Band:
Set RBW=510 kHz, VBW=3*RBW, where span is enough to capture the entire bandwidth, Sweep time = Auto (601 pts), detector = sample, traces 100 sweeps of video averaging. (SA-2 with the omission of procedure x, the integration with 26dB EBW bandwidth)
- Use the cursor on spectrum to peak search the highest level of trace
- Record the max. reading and add 10 log(1/duty cycle).
we test all antennas, the antenna 1 was worst mode and the data recording in the report.
- Duty factor Reference is made to the test results in Section 7.1.5.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



5.1.4 EUT OPERATION CONDITIONS

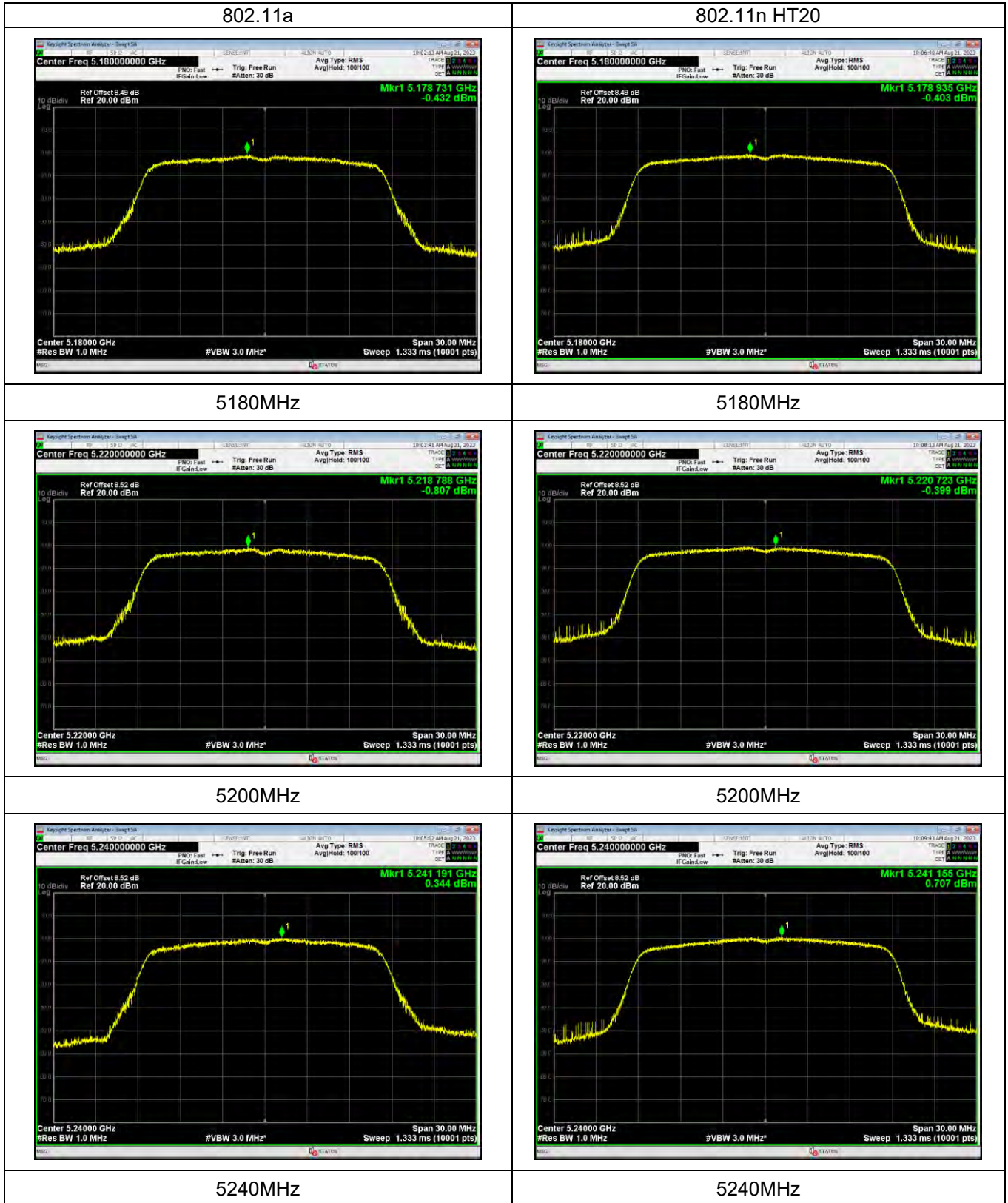
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

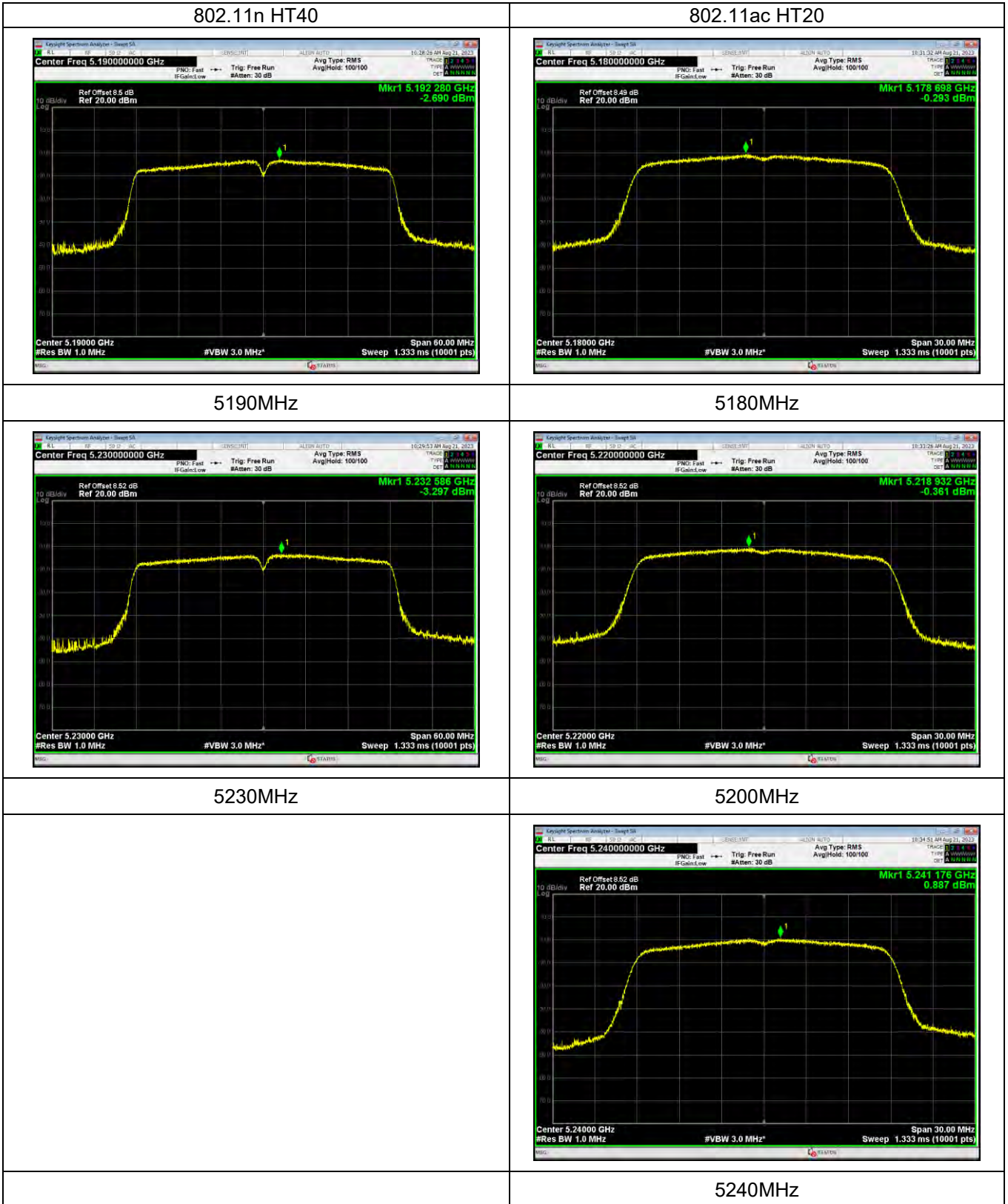


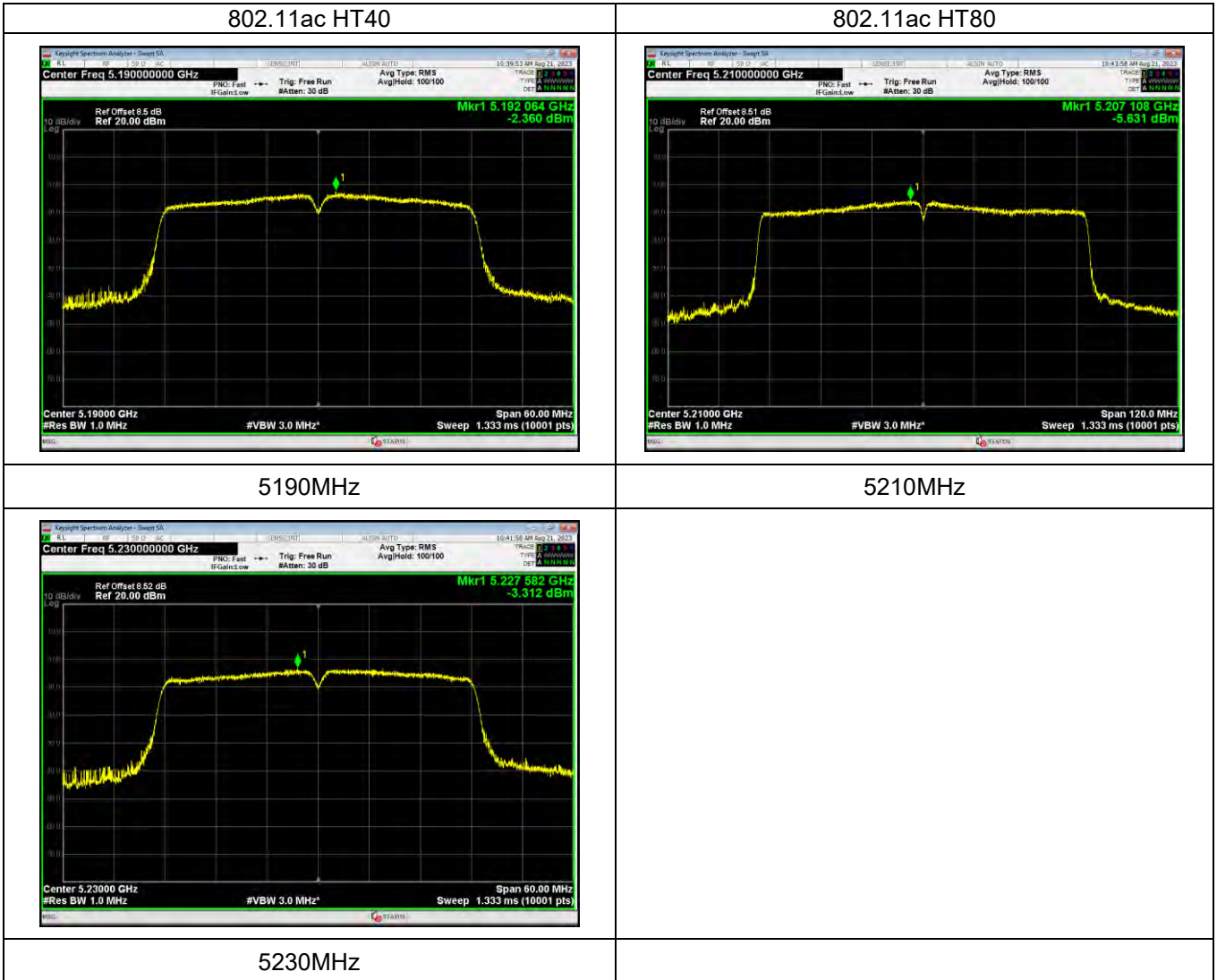
5.1.5 TEST RESULTS

	Mode	Test Channel	Reading Level (dBm)	Duty factor (dB)	PSD (dBm/MHz)	Limit (dBm)	Result
Band1	802.11a	Low	-0.432	0.7	0.268	11.00	PASS
		Middle	-0.807	0.7	-0.107	11.00	PASS
		High	0.344	0.7	1.044	11.00	PASS
	802.11n20	Low	-0.403	0.11	-0.293	11.00	PASS
		Middle	-0.399	0.11	-0.289	11.00	PASS
		High	0.707	0.11	0.817	11.00	PASS
	802.11n40	Low	-2.69	0.21	-2.48	11.00	PASS
		High	-3.297	0.21	-3.087	11.00	PASS
	802.11ac20	Low	-0.293	0.2	-0.093	11.00	PASS
		Middle	-0.361	0.2	-0.161	11.00	PASS
		High	0.887	0.2	1.087	11.00	PASS
	802.11ac40	Low	-2.36	0.38	-1.98	11.00	PASS
		High	-3.312	0.38	-2.932	11.00	PASS
802.11ac80	/	-5.631	0.4	-5.231	11.00	PASS	

	Mode	Test Channel	Reading Level (dBm)	Duty factor (dB)	PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
Band4	802.11a	Low	-2.198	0.69	-1.508	30.00	PASS
		Middle	-2.143	0.69	-1.453	30.00	PASS
		High	-1.684	0.69	-0.994	30.00	PASS
	802.11n20	Low	-1.993	0.11	-1.883	30.00	PASS
		Middle	-1.671	0.11	-1.561	30.00	PASS
		High	-1.327	0.11	-1.217	30.00	PASS
	802.11n40	Low	-4.647	0.21	-4.437	30.00	PASS
		High	-4.851	0.21	-4.641	30.00	PASS
	802.11ac20	Low	-2.332	0.2	-2.132	30.00	PASS
		Middle	-2.167	0.2	-1.967	30.00	PASS
		High	-1.857	0.2	-1.657	30.00	PASS
	802.11ac40	Low	-5.465	0.38	-5.085	30.00	PASS
		High	-5.073	0.38	-4.693	30.00	PASS
802.11ac80	/	-9.18	0.67	-8.51	30.00	PASS	









802.11a



802.11n HT20



5745MHz



5745MHz



5785MHz



5785MHz



5825MHz

5825MHz



802.11n HT40



802.11ac HT20



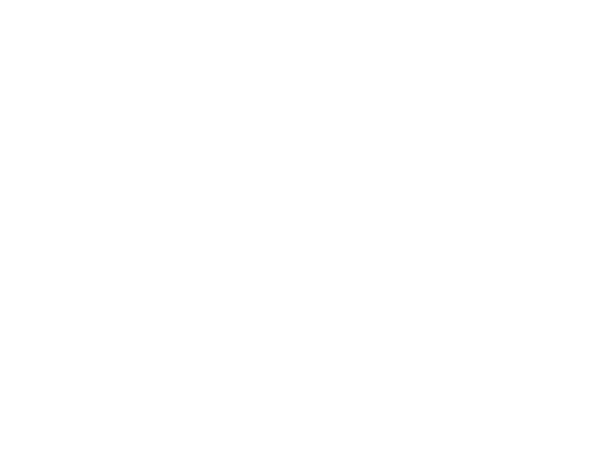
5755MHz



5745MHz



5795MHz



5785MHz



5825MHz



802.11ac HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz



6. 6DB&26DB&99% BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

The 26 dB bandwidth is used to determine the conducted power limits.
There is no limit bandwidth for U-NII-1, U-NII-2-A and U-NII-2-C.
The minimum of 6dB Bandwidth measurement is 0.5 MHz for U-NII-3

6.1.1 TEST PROCEDURE

Table with 2 columns: Spectrum Parameters, Setting. Rows include RBW (100KHz), VBW (300KHz), Span (30MHz, 60MHz, 120MHz), Sweep Time (Auto), Detector (Peak), Trace Mode (Max Hold).

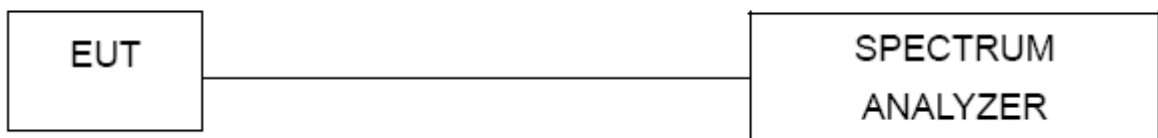
Table with 2 columns: Spectrum Parameters, Setting. Rows include RBW (approximately 1% of the emission bandwidth), VBW (>RBW), Span (30MHz, 60MHz, 120MHz), Sweep Time (Auto), Detector (Peak), Trace Mode (Max Hold).

Table with 2 columns: Spectrum Parameters, Setting. Rows include RBW (1% to 5% of the OBW), VBW (Approximately three times the RBW), Span (between 1.5 times and 5.0 times the OBW), Sweep Time (Auto), Detector (Peak), Trace Mode (Max Hold).

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP





6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

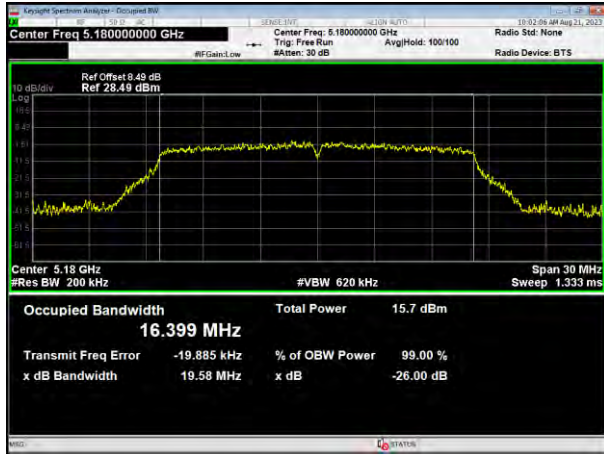
6.1.5 TEST RESULTS

		Test Channel	26dB Bandwidth (MHz)	99% Bandwidth (MHz)	Result
Band 1	802.11a	Low	19.58	16.399	Pass
		Middle	19.37	16.384	Pass
		High	19.37	16.356	Pass
	802.11n HT20	Low	20.15	17.576	Pass
		Middle	20.01	17.589	Pass
		High	20.04	17.524	Pass
	802.11n HT40	Low	40.20	36.043	Pass
		High	40.53	36.040	Pass
	802.11ac HT20	Low	20.08	17.541	Pass
		Middle	20.22	17.558	Pass
		High	19.87	17.489	Pass
	802.11ac HT40	Low	40.21	35.974	Pass
High		40.55	36.070	Pass	
802.11ac HT80	/	80.55	75.366	Pass	

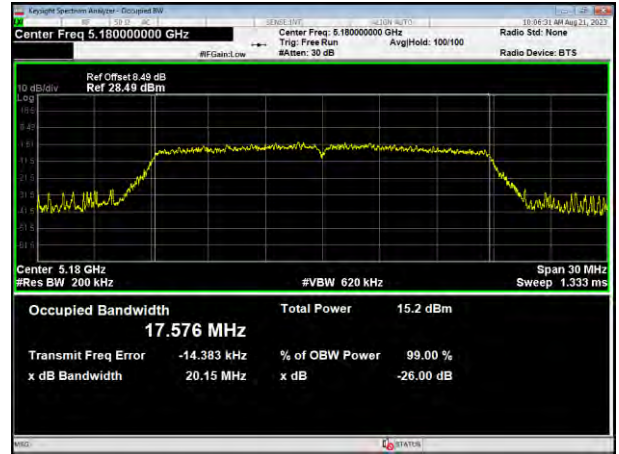
		Test Channel	6dB Bandwidth (MHz)	6dB Bandwidth Limit (MHz)	Result
Band 4	802.11a	Low	15.622	>0.5	Pass
		Middle	15.305	>0.5	Pass
		High	15.336	>0.5	Pass
	802.11n HT20	Low	15.108	>0.5	Pass
		Middle	16.335	>0.5	Pass
		High	14.969	>0.5	Pass
	802.11n HT40	Low	33.782	>0.5	Pass
		High	35.09	>0.5	Pass
	802.11ac HT20	Low	15.695	>0.5	Pass
		Middle	15.082	>0.5	Pass
		High	15.999	>0.5	Pass
	802.11ac HT40	Low	35.053	>0.5	Pass
		High	35.07	>0.5	Pass
	802.11ac HT80	/	75.093	>0.5	Pass



802.11a



802.11n HT20



5180MHz



5180MHz



5200MHz



5200MHz

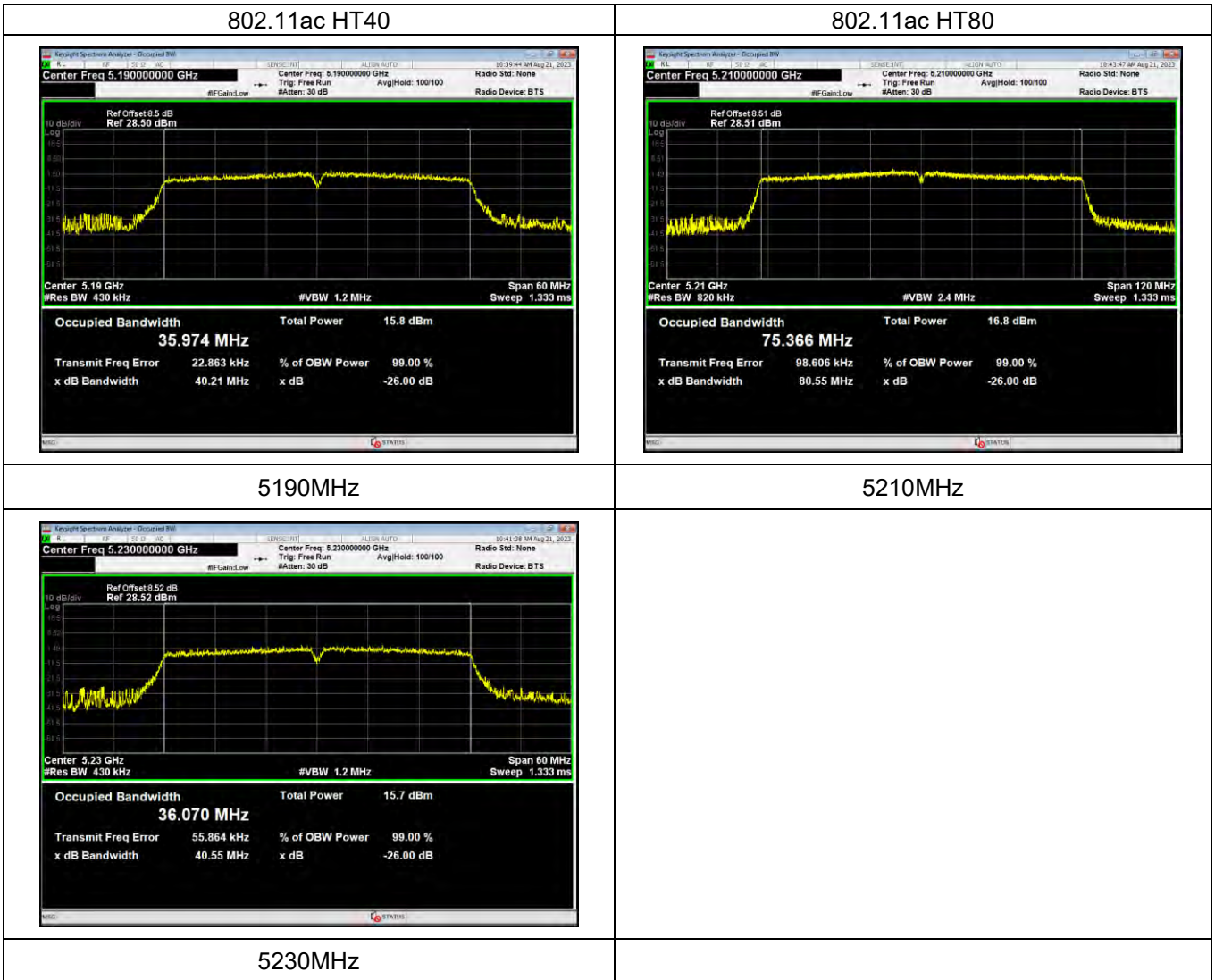


5240MHz

5240MHz

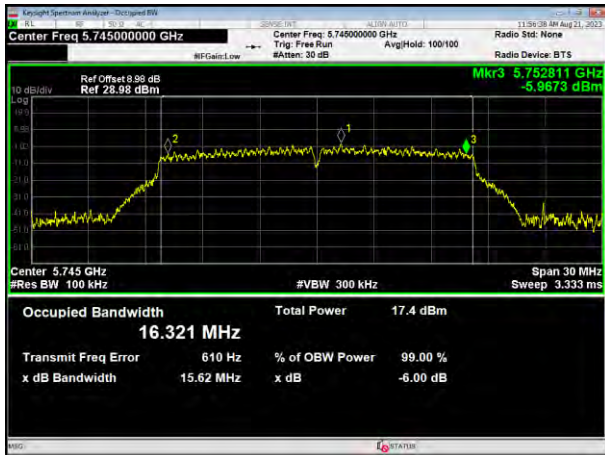


<p style="text-align: center;">802.11n HT40</p> <p>Center Freq: 5.19000000 GHz Center Freq: 5.19000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 8.5 dB Ref 26.50 dBm</p> <p>Center 5.19 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>15.9 dBm</td> </tr> <tr> <td>36.043 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>20.351 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>40.20 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	15.9 dBm	36.043 MHz			Transmit Freq Error	% of OBW Power	99.00 %	20.351 kHz			x dB Bandwidth	x dB	-26.00 dB	40.20 MHz			<p style="text-align: center;">802.11ac HT20</p> <p>Center Freq: 5.18000000 GHz Center Freq: 5.18000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 8.49 dB Ref 28.49 dBm</p> <p>Center 5.18 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>15.3 dBm</td> </tr> <tr> <td>17.541 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-8.504 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>20.08 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	15.3 dBm	17.541 MHz			Transmit Freq Error	% of OBW Power	99.00 %	-8.504 kHz			x dB Bandwidth	x dB	-26.00 dB	20.08 MHz		
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<p style="text-align: center;">5190MHz</p> <p>Center Freq: 5.23000000 GHz Center Freq: 5.23000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 9.52 dB Ref 28.52 dBm</p> <p>Center 5.23 GHz #Res BW 430 kHz #VBW 1.2 MHz Span 60 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>15.7 dBm</td> </tr> <tr> <td>36.040 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>46.836 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>40.53 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	15.7 dBm	36.040 MHz			Transmit Freq Error	% of OBW Power	99.00 %	46.836 kHz			x dB Bandwidth	x dB	-26.00 dB	40.53 MHz			<p style="text-align: center;">5180MHz</p> <p>Center Freq: 5.22000000 GHz Center Freq: 5.22000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 9.52 dB Ref 28.52 dBm</p> <p>Center 5.22 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>15.2 dBm</td> </tr> <tr> <td>17.558 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>-24.163 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>20.22 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	15.2 dBm	17.558 MHz			Transmit Freq Error	% of OBW Power	99.00 %	-24.163 kHz			x dB Bandwidth	x dB	-26.00 dB	20.22 MHz		
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<p style="text-align: center;">5230MHz</p> <p>Center Freq: 5.24000000 GHz Center Freq: 5.24000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 9.52 dB Ref 28.52 dBm</p> <p>Center 5.24 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>16.4 dBm</td> </tr> <tr> <td>17.489 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>25.664 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>19.97 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	16.4 dBm	17.489 MHz			Transmit Freq Error	% of OBW Power	99.00 %	25.664 kHz			x dB Bandwidth	x dB	-26.00 dB	19.97 MHz			<p style="text-align: center;">5200MHz</p> <p>Center Freq: 5.24000000 GHz Center Freq: 5.24000000 GHz Trig: Free Run #Att: 30 dB Avg/Hold: 100/100 Radio Std: None Radio Device: BTS</p> <p>Ref Offset 9.52 dB Ref 28.52 dBm</p> <p>Center 5.24 GHz #Res BW 200 kHz #VBW 620 kHz Span 30 MHz Sweep 1.333 ms</p> <table border="1"> <tr> <td>Occupied Bandwidth</td> <td>Total Power</td> <td>16.4 dBm</td> </tr> <tr> <td>17.489 MHz</td> <td></td> <td></td> </tr> <tr> <td>Transmit Freq Error</td> <td>% of OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>25.664 kHz</td> <td></td> <td></td> </tr> <tr> <td>x dB Bandwidth</td> <td>x dB</td> <td>-26.00 dB</td> </tr> <tr> <td>19.97 MHz</td> <td></td> <td></td> </tr> </table>	Occupied Bandwidth	Total Power	16.4 dBm	17.489 MHz			Transmit Freq Error	% of OBW Power	99.00 %	25.664 kHz			x dB Bandwidth	x dB	-26.00 dB	19.97 MHz		
Occupied Bandwidth	Total Power	16.4 dBm																																			
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x dB Bandwidth	x dB	-26.00 dB																																			
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	<p style="text-align: center;">5240MHz</p>																																				

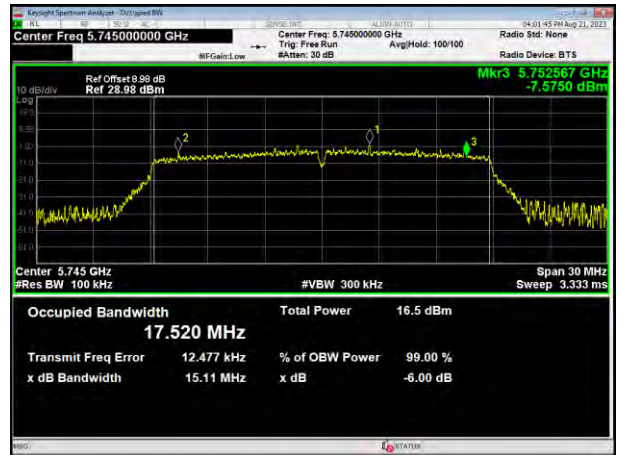




802.11a



802.11n HT20



5745MHz



5745MHz



5785MHz



5785MHz

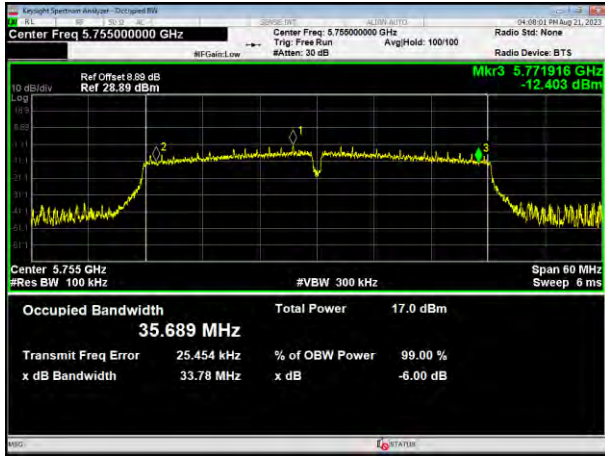


5825MHz

5825MHz



802.11n HT40



802.11ac HT20



5755MHz



5745MHz



5795MHz



5785MHz



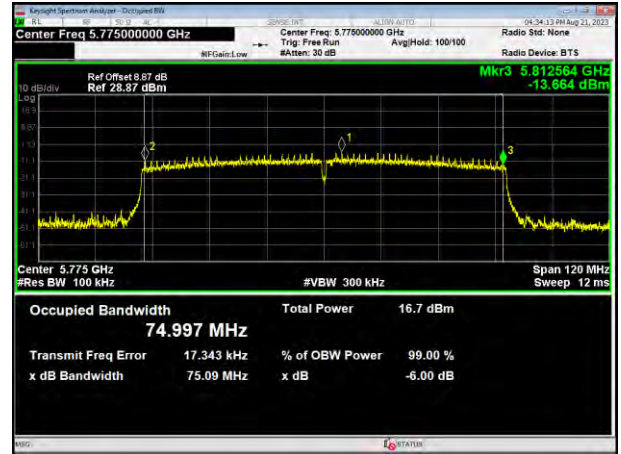
5825MHz



802.11ac HT40



802.11ac HT80



5755MHz



5775MHz

5795MHz



7. DUTY CYCLE TEST SIGNAL

7.1 APPLIED PROCEDURES / LIMIT

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle. All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

7.1.1 TEST PROCEDURE

1. Set RBW = 1 MHz.
2. Set the video bandwidth (VBW) \geq RBW.
3. Detector = Peak.
4. Sweep = auto couple.
5. Allow the trace to stabilize.
6. Span=0

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

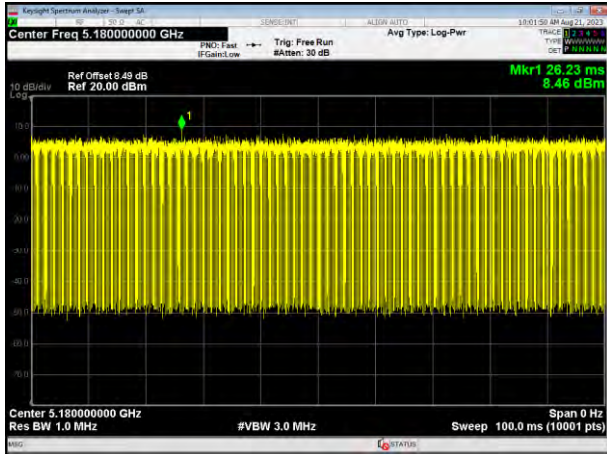
**7.1.5 TEST RESULTS**

Operation Mode		Duty Cycle(%)	Duty Fator (dB) $10 * \log (1/ \text{Duty cycle})$
Band 1	802.11a	85.1	0.7
	802.11n(HT20)	97.56	0.11
	802.11n(HT40)	95.29	0.21
	802.11ac(HT20)	95.45	0.2
	802.11ac(HT40)	91.67	0.38
	802.11ac(HT80)	91.12	0.4

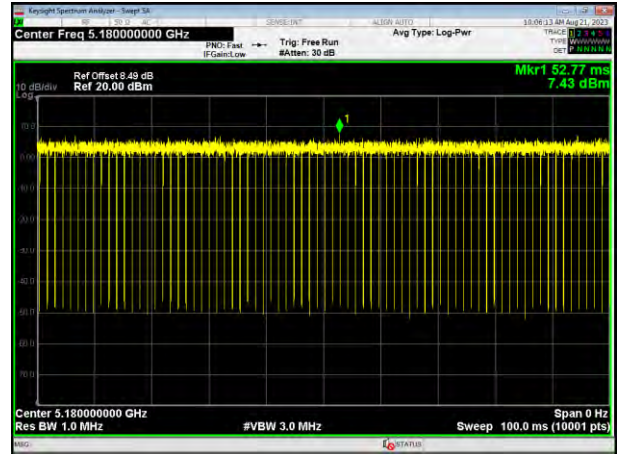
Operation Mode		Duty Cycle(%)	Duty Fator (dB) $10 * \log (1/ \text{Duty cycle})$
Band 4	802.11a	85.3	0.69
	802.11n(HT20)	97.51	0.11
	802.11n(HT40)	95.23	0.21
	802.11ac(HT20)	95.53	0.2
	802.11ac(HT40)	91.67	0.38
	802.11ac(HT80)	85.66	0.67



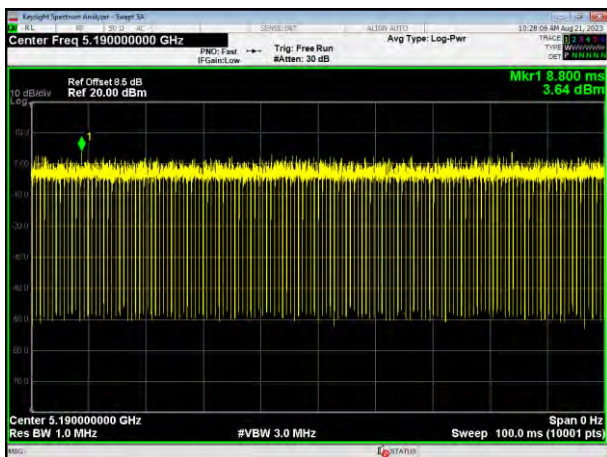
802.11a



802.11n HT20



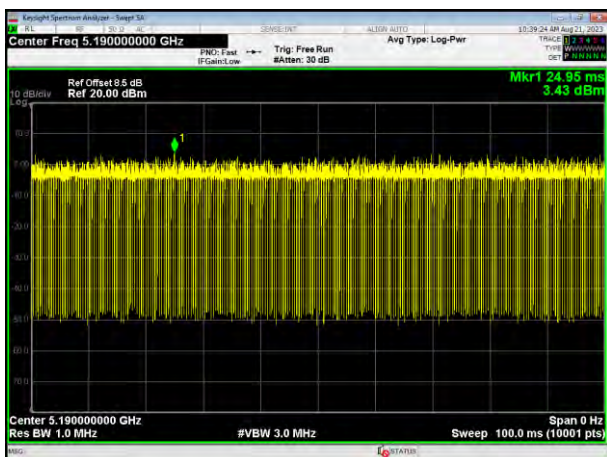
802.11n HT40



802.11ac HT20



802.11ac HT40

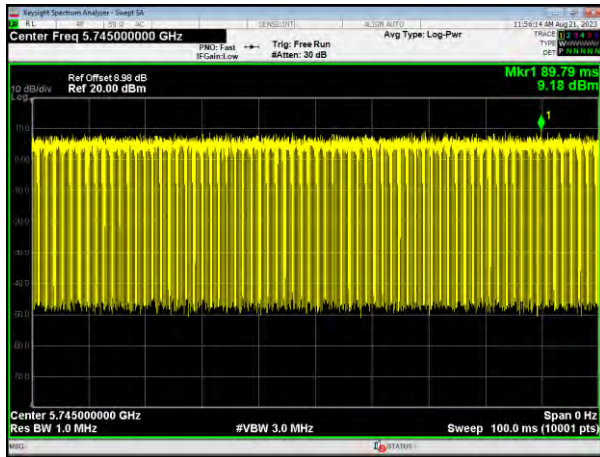


802.11ac HT80

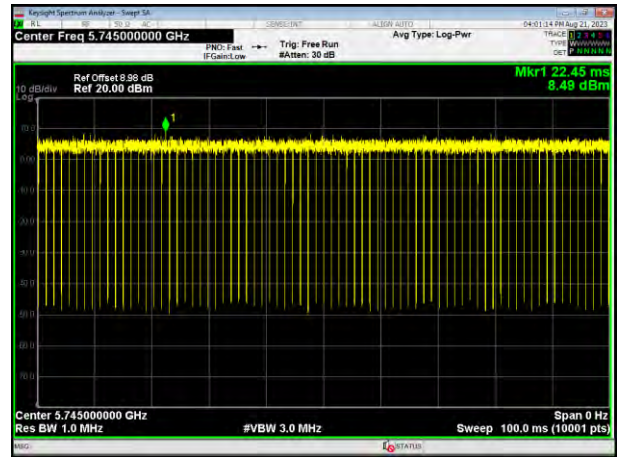




802.11a



802.11n HT20



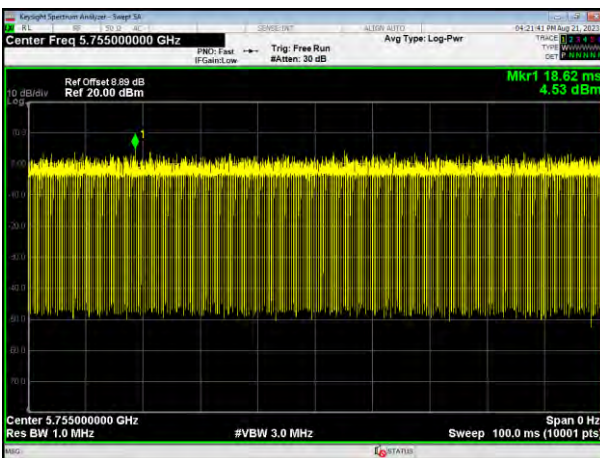
802.11n HT40



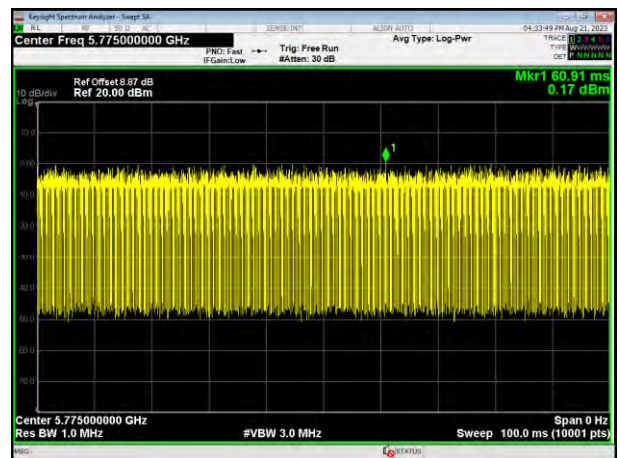
802.11ac HT20



802.11ac HT40



802.11ac HT80





8. FREQUENCY STABILITY

8.1 APPLIED PROCEDURES / 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.

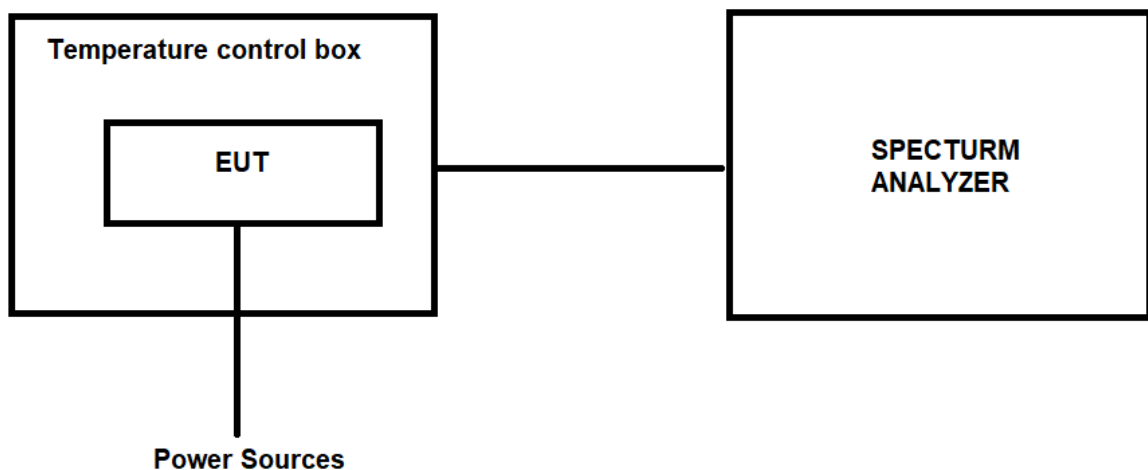
8.1.1 TEST PROCEDURE

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.5 TEST RESULTS

Test Voltage	Test Temp.	Measured Frequency (MHz)	Spectrum Frequency (MHz)			Δ Frequency (MHz)		
			802.11a	802.11n HT20	802.11ac HT20	802.11a	802.11n HT20	802.11ac HT20
4.18V	-20℃	5180	5180.0333	5180.0354	5180.0363	-0.0333	-0.0354	-0.0363
		5220	5220.0348	5220.0366	5220.0364	-0.0348	-0.0366	-0.0364
		5240	5240.0236	5240.0214	5240.0255	-0.0236	-0.0214	-0.0255
		5745	5745.0367	5745.0348	5745.0316	-0.0367	-0.0348	-0.0316
		5785	5785.0385	5785.0335	5785.0324	-0.0385	-0.0335	-0.0324
		5825	5825.0365	5825.0363	5825.0341	-0.0365	-0.0363	-0.0341
3.42V	-20℃	5180	5180.0276	5180.0225	5180.0232	-0.0276	-0.0225	-0.0232
		5220	5220.0342	5220.0386	5220.0358	-0.0342	-0.0386	-0.0358
		5240	5240.0246	5240.0268	5240.0226	-0.0246	-0.0268	-0.0226
		5745	5745.0264	5745.0224	5745.0298	-0.0264	-0.0224	-0.0298
		5785	5785.0327	5785.0386	5785.0324	-0.0327	-0.0386	-0.0324
		5825	5825.0414	5825.0425	5825.0413	-0.0414	-0.0425	-0.0413
3.8V	25℃	5180	5180.0523	5180.0515	5180.0535	-0.0523	-0.0515	-0.0535
		5220	5220.0268	5220.0246	5220.0246	-0.0268	-0.0246	-0.0246
		5240	5240.0354	5240.0314	5240.0367	-0.0354	-0.0314	-0.0367
		5745	5745.0336	5745.0329	5745.0344	-0.0336	-0.0329	-0.0344
		5785	5785.0487	5785.0415	5785.0464	-0.0487	-0.0415	-0.0464
		5825	5825.0244	5825.0276	5825.0228	-0.0244	-0.0276	-0.0228
4.18V	50℃	5180	5180.0315	5180.0364	5180.0364	-0.0315	-0.0364	-0.0364
		5220	5220.0235	5220.0243	5220.0256	-0.0235	-0.0243	-0.0256
		5240	5240.0366	5240.0356	5240.0368	-0.0366	-0.0356	-0.0368
		5745	5745.0678	5745.0631	5745.0675	-0.0678	-0.0631	-0.0675
		5785	5785.0464	5785.0422	5785.0466	-0.0464	-0.0422	-0.0466
		5825	5825.0656	5825.0627	5825.0665	-0.0656	-0.0627	-0.0665
3.42V	50℃	5180	5180.0367	5180.0323	5180.0343	-0.0367	-0.0323	-0.0343
		5220	5220.0245	5220.0265	5220.0265	-0.0245	-0.0265	-0.0265
		5240	5240.0316	5240.0358	5240.0316	-0.0316	-0.0358	-0.0316
		5745	5745.0467	5745.0433	5745.0458	-0.0467	-0.0433	-0.0458
		5785	5785.0254	5785.0254	5785.0264	-0.0254	-0.0254	-0.0264
		5825	5825.0721	5825.0739	5825.0742	-0.0721	-0.0739	-0.0742



Test Voltage	Test Temp.	Measured Frequency (MHz)	Spectrum Frequency (MHz)		Δ Frequency (MHz)	
			802.11n HT40	802.11ac HT40	802.11n HT40	802.11ac HT40
4.18V	-20°C	5190	5190.0266	5190.0236	-0.0266	-0.0236
		5230	5230.0358	5230.0364	-0.0358	-0.0364
		5755	5755.0545	5755.0553	-0.0545	-0.0553
		5795	5795.0646	5795.0615	-0.0646	-0.0615
3.42V		5190	5190.0258	5190.0232	-0.0258	-0.0232
		5230	5230.0365	5230.0344	-0.0365	-0.0344
		5755	5755.0244	5755.0666	-0.0244	-0.0666
		5795	5795.0445	5795.0485	-0.0445	-0.0485
3.8V	25°C	5190	5190.0277	5190.0254	-0.0277	-0.0254
		5230	5230.0633	5230.0652	-0.0633	-0.0652
		5755	5755.0254	5755.0234	-0.0254	-0.0234
		5795	5795.0564	5795.0538	-0.0564	-0.0538
4.18V	50°C	5190	5190.0655	5190.0644	-0.0655	-0.0644
		5230	5230.0566	5230.0553	-0.0566	-0.0553
		5755	5755.0465	5755.0435	-0.0465	-0.0435
		5795	5795.0334	5795.0326	-0.0334	-0.0326
3.42V	50°C	5190	5190.0568	5190.0544	-0.0568	-0.0544
		5230	5230.0336	5230.0334	-0.0336	-0.0334
		5755	5755.0324	5755.0334	-0.0324	-0.0334
		5795	5795.0464	5795.0446	-0.0464	-0.0446



Test Voltage	Test Temp.	Measured Frequency (MHz)	Spectrum Frequency (MHz)	Δ Frequency (MHz)
			802.11ac HT80	802.11ac HT80
4.18V	-20°C	5210	5210.0136	-0.0136
		5775	5775.0168	-0.0168
3.42V		5210	5210.0244	-0.0244
		5775	5775.0323	-0.0323
3.8V	25°C	5210	5210.0475	-0.0475
		5775	5775.0364	-0.0364
4.18V	50°C	5210	5210.0345	-0.0345
		5775	5775.0266	-0.0266
3.42V	50°C	5210	5210.0337	-0.0337
		5775	5775.0544	-0.0544



9. TRANSMISSION IN THE ABSENCE OF DATA

9.1 STANDARD REQUIREMENT

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

9.2 TEST RESULT

No non-compliance noted:
Refer to the theory of operation.

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

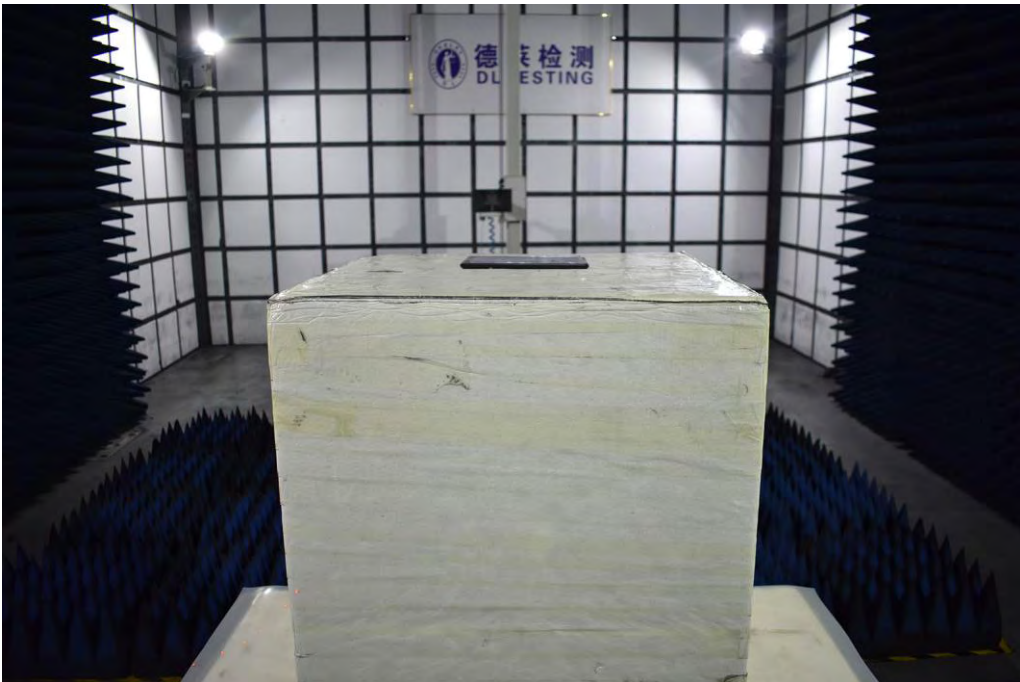
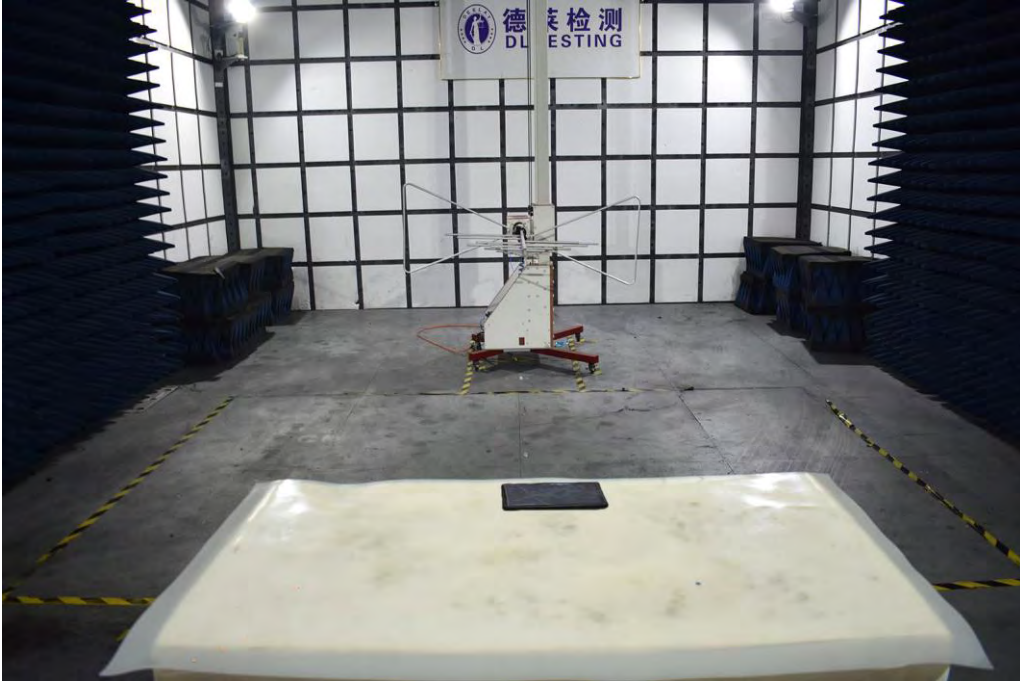
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is Internal Antenna, It comply with the standard requirement.

11. TEST SEUUP PHOTO

Radiated Measurement Photos



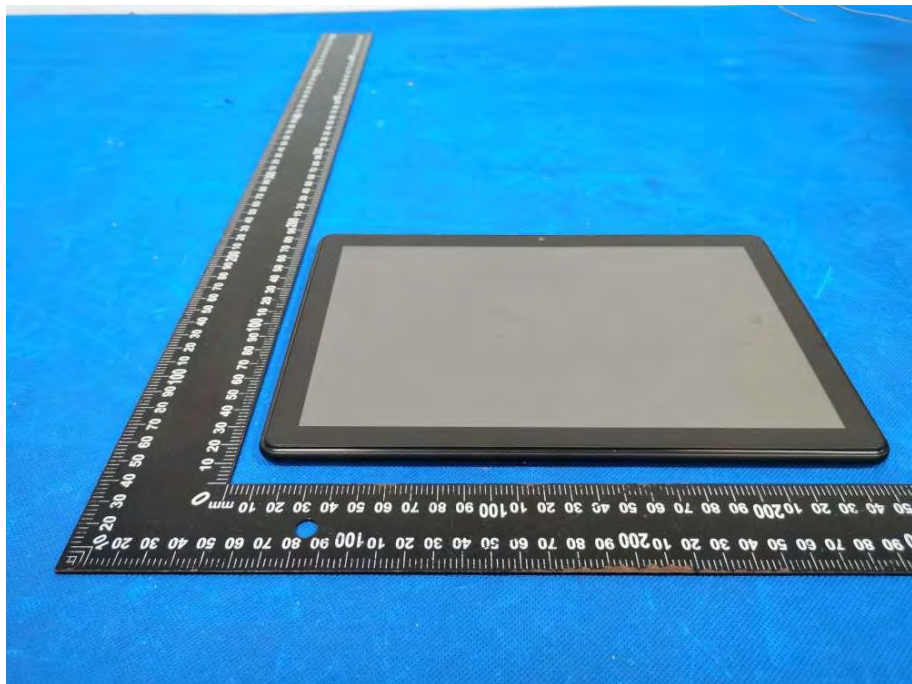
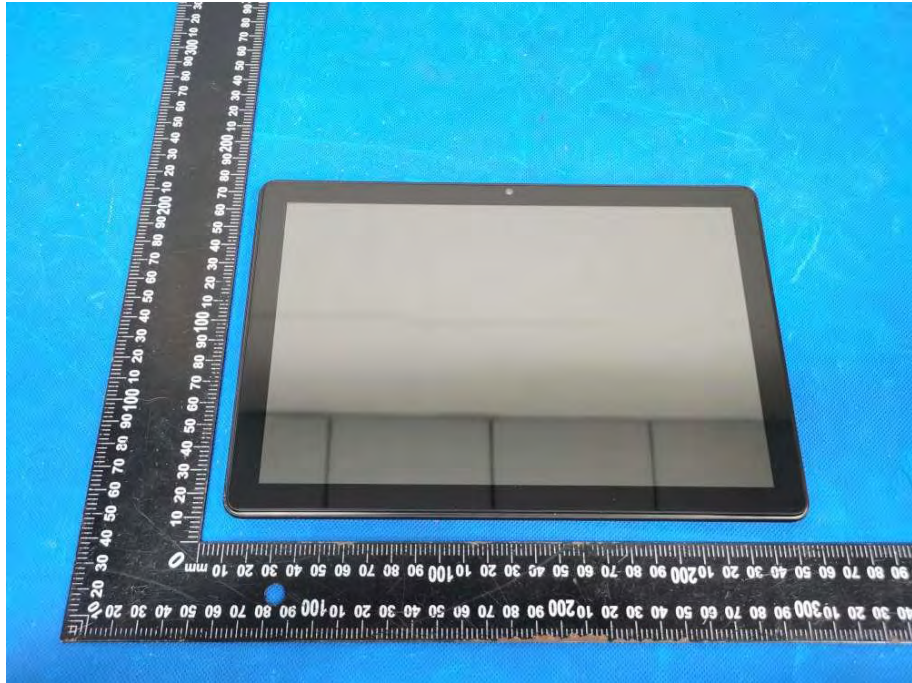


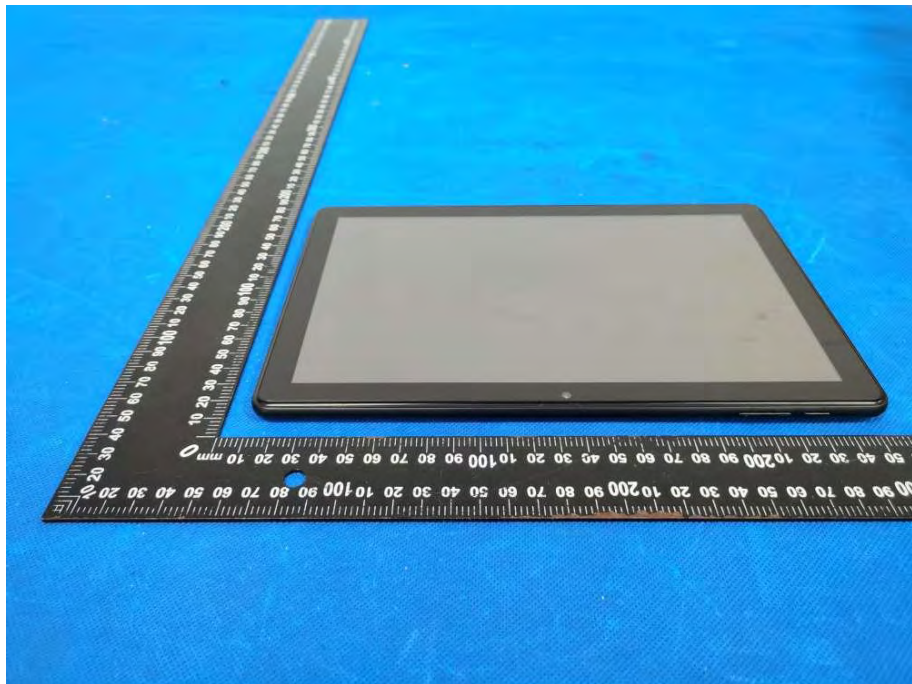
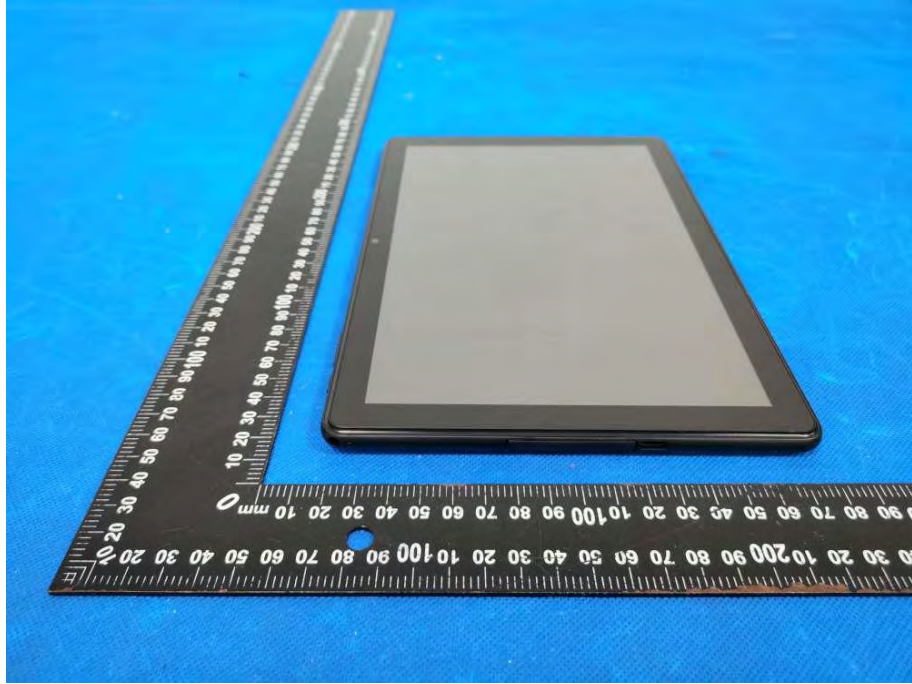
Conducted Measurement Photos

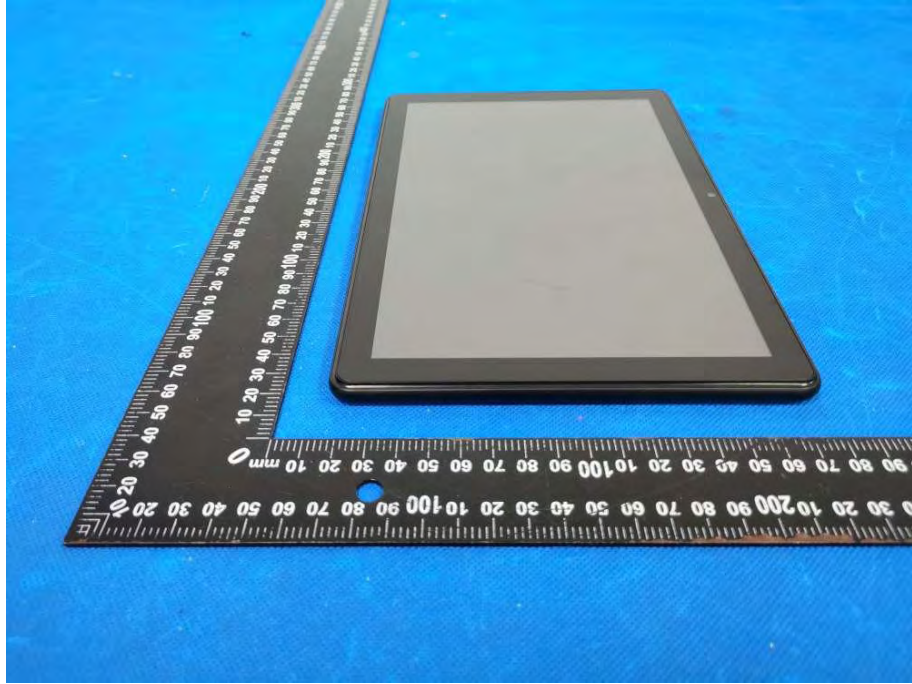


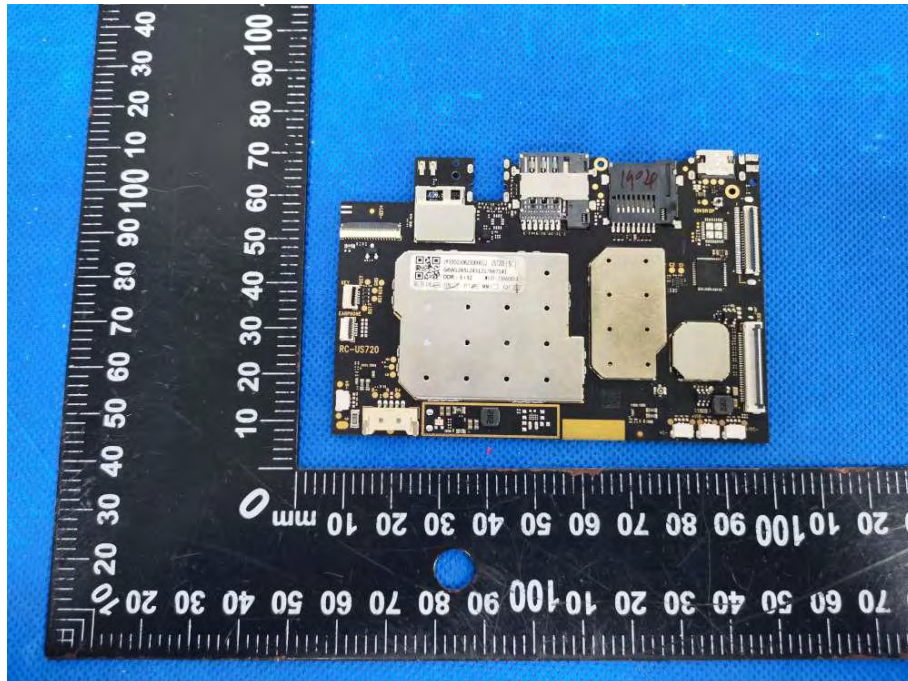
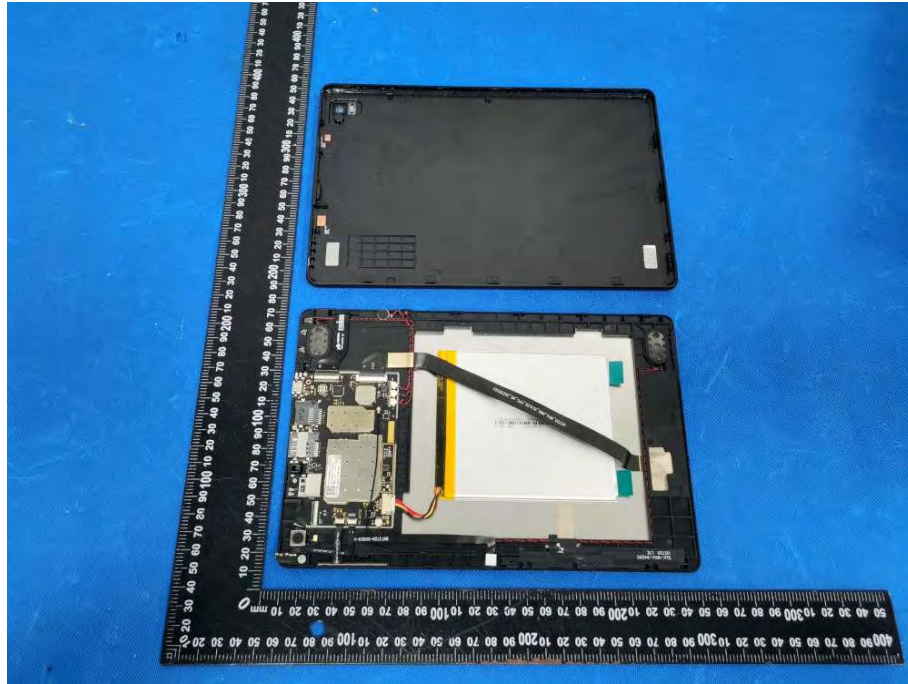


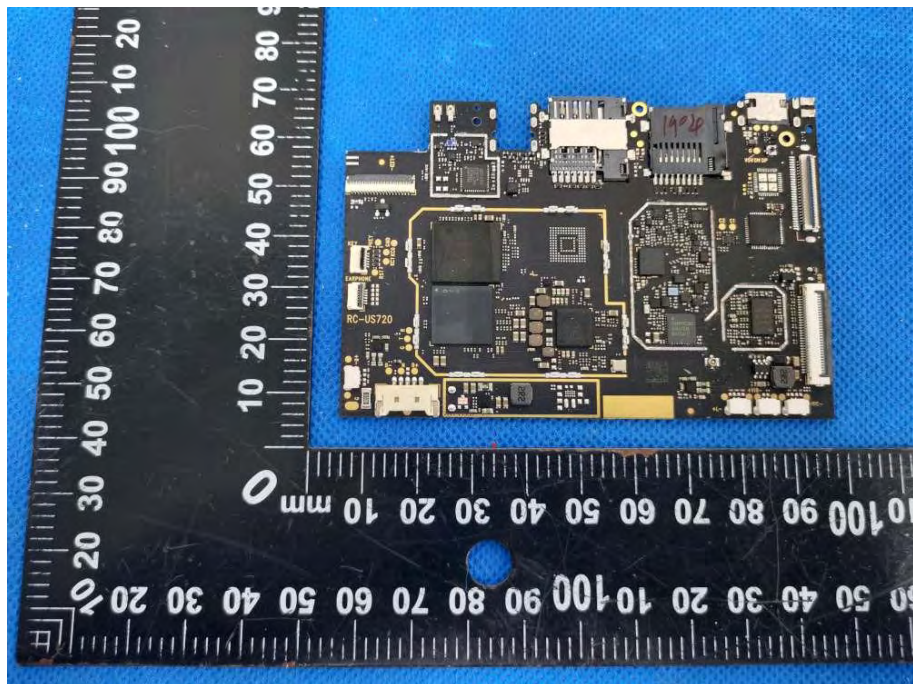
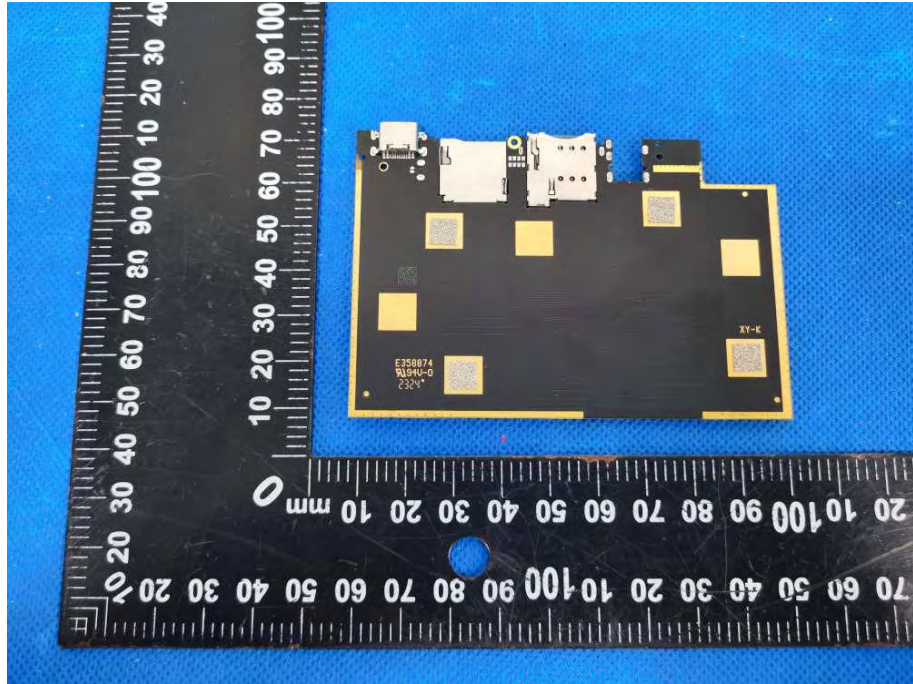
12. EUT PHOTO

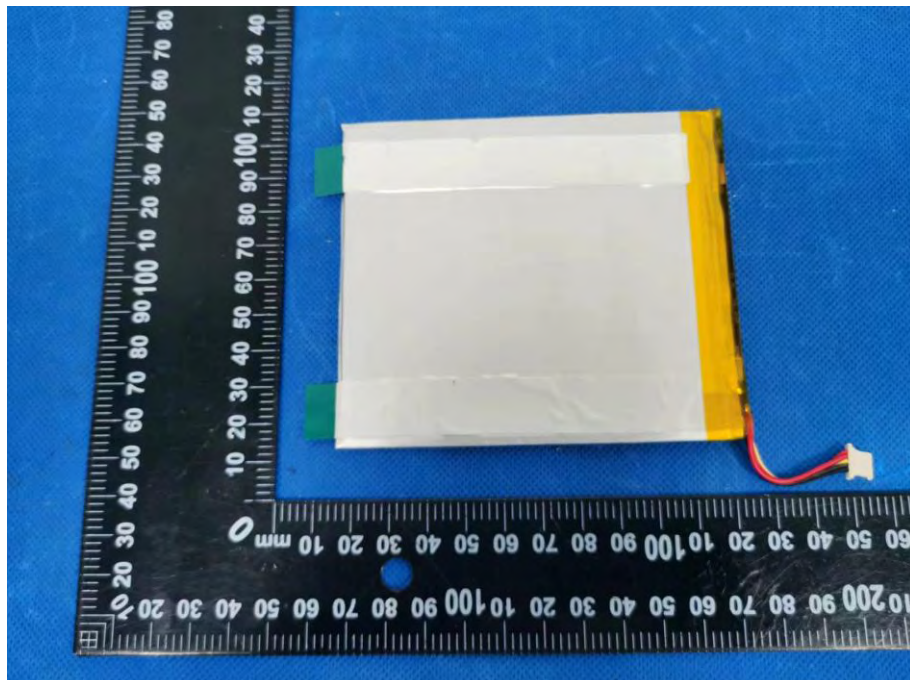
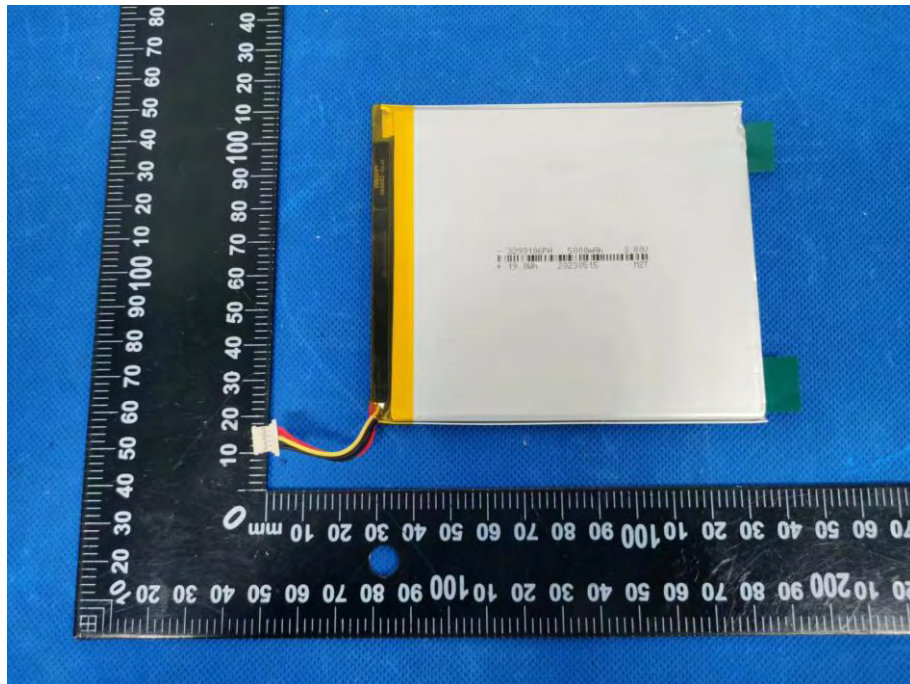












***** END OF REPORT *****