



FCC TEST REPORT

FCC ID: 2BXO3-Q3

Product	:	Smart Projector
Model Name	:	Q3
Brand	:	N/A
Report No.	:	PTC26071615302E-FC04
Prepared for		
Shenzhen World Winner Technology Co., Ltd		
3rd Floor, Building 2, No. 107 Fuqian Road, Longhua District, Shenzhen City, Guangdong Province		
Prepared by		
Precise Testing & Certification Co., Ltd		
Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China		



1 TEST RESULT CERTIFICATION

Applicant's name : Shenzhen World Winner Technology Co., Ltd

Address : 3rd Floor, Building 2, No. 107 Fuqian Road, Longhua District,
Shenzhen City, Guangdong Province

Manufacture's name : Shenzhen World Winner Technology Co., Ltd

Address : 3rd Floor, Building 2, No. 107 Fuqian Road, Longhua District,
Shenzhen City, Guangdong Province

Product name : Smart Projector

Model name : Q3

Standards : FCC CFR47 Part 15 Section 15.407

Test procedure : ANSI C63.10-2020

Test Date : Jul. 21, 2026 to Aug. 24, 2026

Date of Issue : Aug. 24, 2026

Test Result : Pass

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

This report shall not be reproduced except in full, without the written approval of PTC, this document may be altered or revised by PTC, personal only, and shall be noted in the revision of the document.

Test Engineer:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



Contents

	Page
1 TEST RESULT CERTIFICATION	2
2 TEST SUMMARY	5
3 GENERAL INFORMATION.....	6
3.1 GENERAL DESCRIPTION OF E.U.T.	6
3.2 CHANNEL LIST	7
3.3 TEST SITE	8
4 EQUIPMENT DURING TEST	9
4.1 EQUIPMENTS LIST.....	9
4.2 MEASUREMENT UNCERTAINTY.....	12
4.3 DESCRIPTION OF SUPPORT UNITS.....	13
5 CONDUCTED EMISSION	14
5.1 E.U.T. OPERATION.....	14
5.2 EUT SETUP	14
5.3 TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION).....	15
5.4 MEASUREMENT PROCEDURE	15
5.5 CONDUCTED EMISSION LIMIT	15
5.6 MEASUREMENT DESCRIPTION.....	15
5.7 CONDUCTED EMISSION TEST RESULT	15
6 RADIATED SPURIOUS EMISSIONS	18
6.1 EUT OPERATION	19
6.2 TEST SETUP	20
6.3 SPECTRUM ANALYZER SETUP.....	21
6.4 TEST PROCEDURE.....	22
6.5 SUMMARY OF TEST RESULTS	23
6.6 BAND EDGE MEASUREMENTS	62
6.7 RESTRICTED BAND	79
7 EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH	81
7.1 TEST PROCEDURE.....	81
7.2 TEST SETUP	82
7.3 TEST RESULT	82



8 MAXIMUM CONDUCTED OUTPUT POWER	112
8.1 TEST SETUP	112
8.2 TEST PROCEDURE.....	112
8.3 TEST RESULT	113
9 POWER SPECTRAL DENSITY	115
9.1 TEST PROCEDURE.....	116
9.2 TEST SETUP	116
9.3 TEST RESULT	117
9.4 ANTENNA REQUIREMENT.....	136
9.5 RESULT	136
10 FREQUENCY STABILITY	137
10.1 TEST PROCEDURE.....	137
10.2 TEST SETUP	137
10.3 TEST RESULT	138
11 TEST SETUP	147
12 EUT PHOTOS.....	149



2 Test Summary

Test Items	Test Requirement	Result
Conduct Emission	15.207	PASS
Radiated Spurious Emissions	15.205(a) 15.209 15.407(b)	PASS
Emission and Occupied Bandwidth	15.407(a)(e)	PASS
Maximum Conducted Output Power	15.407(a)	PASS
Power Spectral Density	15.407(a)	PASS
Frequency stability	15.407 (g)	PASS
Antenna Requirement	15.203	PASS



3 General Information

3.1 General Description of E.U.T.

Product Name	: Smart Projector
Model Name	: Q3
Specification	: 802.11a/n HT20/HT40/ac20/ac40/ax20/ax40
Operation Frequency	: 5G Wi-Fi:5180-5240 MHz 5.8G Wi-Fi:5745MHz~5825MHz
Number of Channel	: 4 channels for 802.11a/n20/ac20/ax20 5180-5240 MHz 5 channels for 802.11a/n20/ac20/ax20 5745MHz~5825MHz 2 channels for 802.11n40/ac40/ax40 5190-5230 MHz 2 channels for 802.11n40/ac40/ax40 5755MHz~5795MHz
Type of Modulation	: OFDM with BPSK/QPSK/16QAM/64QAM/256QAM for 802.11n/a/ac/ax
Antenna installation	: FPC Antenna
Antenna Gain	: 3.99 dBi
Power supply	: Input: AC 100-240V DC30V/1.05A 12V/1A
Hardware Version	: N/A
Software Version	: N/A
Test sample No.	: PTC26071615302E-1/2, PTC26071615302E-2/2
Resource Unit	: Full RU



3.2 Channel List

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11a: 6 Mbps; 802.11n 20: MCS0; 802.11n 40: MCS0; 802.11ac20: MCS0; 802.11ac40: MCS0; MCS0; 802.11ax20: MCS0; 802.11ax40: MCS0) were used for all test.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 802.11 a/N20/N40/AC20/AC40/ax20/ax40

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
36	5180	46	5230	153	5765
38	5190	48	5240	157	5785
40	5200	149	5745	159	5795
44	5220	151	5755	161	5805
				165	5825

The maximum duty cycle as following table:

Test Mode	Duty Cycle(%)
802.11a	100%
802.11n/ac20/ax20	100%
802.11n/ac40/ax40	100%



Report No.: PTC26071615302E-FC04

3.3 Test Site

Precise Testing & Certification Co., Ltd

Address: Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China

FCC Registration Number: 790290

A2LA Certificate No.: 4408.01

IC Registration Number: 12191A

FCC Designation Number: CN1219



4 Equipment During Test

4.1 Equipments List

RF Conducted Test

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
MXG Signal Analyzer	Agilent	N9020A	SER MY5111038	10Hz-26.5GHz	Aug. 10, 2026	1 Year
Coaxial Cable	CDS	79254	46107086	10Hz-30GHz	Aug. 10, 2026	1 Year
Power Meter	Anritsu	ML2495A	0949003	300MHz-40GHz	Aug. 10, 2026	1 Year
Power Sensor	Anritsu	MA2411B	0917017	300MHz-40GHz	Aug. 10, 2026	1 Year
DC power Supply	Agilent	E3642A	MY52420017	0-8V,5A/0-20 ,2.5A	Aug. 10, 2026	1 Year
Humidity Chamber	AISRY	ASR-HW2-1000	20230926003	-40°C-150°C	Feb.22 ,2026	1Year
RF attenuator	YINSAIGE	SMA-JK-8G-06DB	/	DC-8G	Aug. 10, 2026	1 Year
Test S/W	Tonscend	JS1120-3	/	/	/	/

Remark: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Last Calibration	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESPI7	101671	9KHz-7GHz	Aug. 10, 2026	1 Year
Loop Antenna	Schwarzbeck	FMZB 1519	192	9 KHz -30MHz	Aug. 10, 2026	1 Year
Bilog Antenna	SCHWARZBECK	VULB9160	9160-3355	25MHz-2GHz	Sep.10, 2025	1 Year
Preamplifier (low frequency)	SCHWARZBECK	BBV 9475	9745-0013	1MHz-1GHz	Aug. 10, 2026	1 Year
Cable	IMRO	AK-9515E(9m)	Cable-L	9KHz-3GHz	Aug. 10, 2026	1 Year



Report No.: PTC26071615302E-FC04

Spectrum Analyzer	Rohde&Schwarz	FSV40	6625-01-588-5515	9KHz-40GHz	Aug. 10, 2026	1 Year
Horn Antenna	SCHWARZBECK	9120D	9120D-1246	1GHz-18GHz	Aug. 10, 2026	1 Year
Power Amplifier	ZHINAN	ZN3380C	15002	1GHz-26.5GHz	Aug. 10, 2026	1 Year
Horn Antenna	SCHWARZBECK	BBHA 9170	9170-1066	15GHz-40GHz	Jun. 06, 2026	1 Year
Amplifier	SCHWARZBECK	BBV 9721	9721-205	18GHz-40GHz	Jun. 04, 2026	1 Year
Cable	H+S	CBL-26	N/A	1GHz-26.5GHz	Aug. 10, 2026	1 Year
RF Cable	R&S	R204	R21X	1GHz-40GHz	Aug. 10, 2026	1 Year
Test S/W	Tonscend	TS+	/	/	/	/

Conducted Emissions

Name of Equipment	Manufacturer	Model	Serial No.	Characteristics	Calibration Date	Calibration Interval
EMI Test Receiver	Rohde&Schwarz	ESCI	101417	9KHz-3GHz	Aug. 10, 2026	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	102453	9KHz-300MHz	Aug. 10, 2026	1 Year
Artificial Mains Network	Rohde&Schwarz	ENV216	101342	9KHz-300MHz	Aug. 10, 2026	1 Year
Limiter	R&S	ESH3-Z2	0357.8810.54-102808-NB	0Hz-30MHz	Aug. 10, 2026	1 Year
RF Switch	DIAMOND ANTENNA	CX-210	/	0.09MHz-6GHz	Mar. 21,2026	1 Year



Report No.: PTC26071615302E-FC04

Test S/W	Tonscend	JS32-CE	/	/	/	/
----------	----------	---------	---	---	---	---



4.2 Measurement Uncertainty

Parameter	Uncertainty
RF output power, conducted	$\pm 1.0\text{dB}$
Power Spectral Density, conducted	$\pm 2.2\text{dB}$
Radio Frequency	$\pm 1 \times 10^{-6}$
Bandwidth	$\pm 1.5 \times 10^{-6}$
Time	$\pm 2\%$
Duty Cycle	$\pm 2\%$
Temperature	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 3\%$
Conducted Emissions (150kHz~30MHz)	$\pm 3.64\text{dB}$
Radiated Emission(9kHz~30MHz)	$\pm 3.15\text{dB}$
Radiated Emission(30MHz~1GHz)	$\pm 5.03\text{dB}$
Radiated Emission(1GHz~18GHz)	$\pm 4.74\text{dB}$
Radiated Emission(18GHz~40GHz)	$\pm 3.20\text{dB}$



Report No.: PTC26071615302E-FC04

4.3 Description of Support Units

Equipment	Model No.	Series No.	Parameters
N/A	N/A	N/A	N/A

5 Conducted Emission

Test Requirement:	: FCC CFR 47 Part 15 Section 15.207
Test Method	: ANSI C63.10-2020
Test Result	: PASS
Frequency Range	: 150kHz to 30MHz
Class/Severity	: Class B

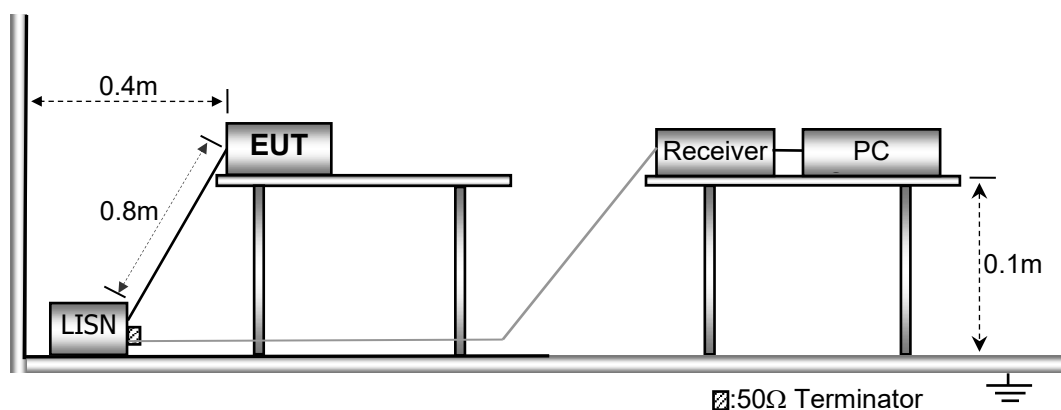
5.1 E.U.T. Operation

Operating Environment :

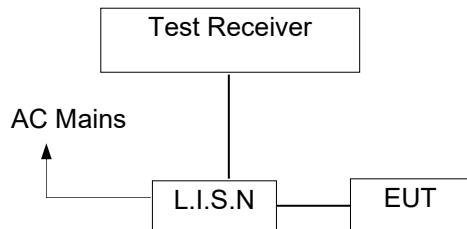
Temperature	: 23.9 °C
Humidity	: 51.4 % RH
Atmospheric Pressure	: 101.21kPa

5.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10-2020.



5.3 Test SET-UP (Block Diagram of Configuration)



5.4 Measurement Procedure

1. The EUT was placed on a table, which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

5.5 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note:

1. The lower limit shall apply at the transition frequencies
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

5.6 Measurement Description

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

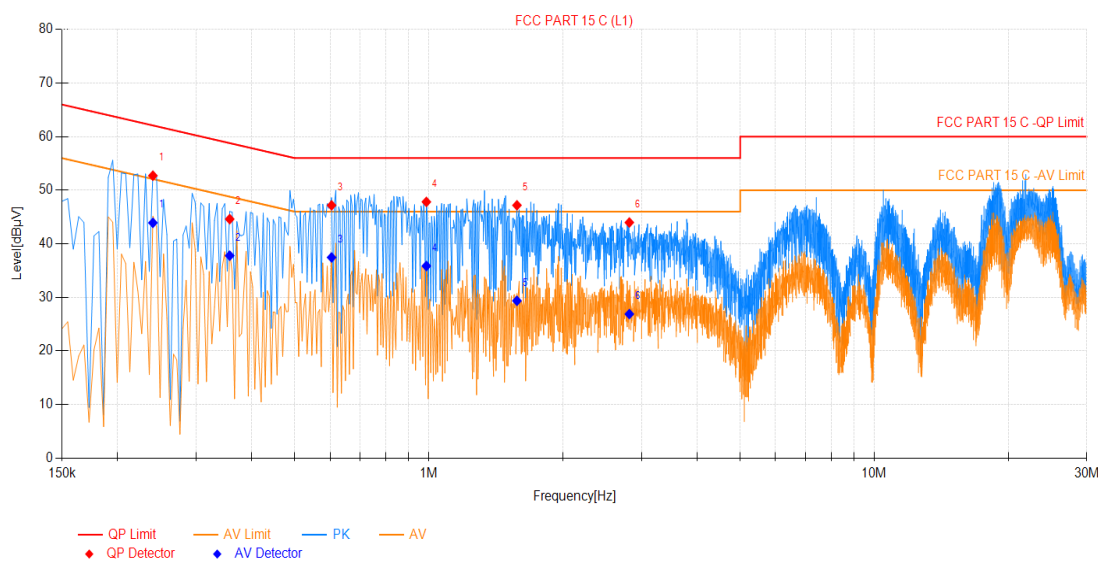
5.7 Conducted Emission Test Result

Pass.

All the modulation modes were tested the data of the worst mode (AC 120V/60Hz, TX 5180MHz) are recorded in the following pages and the others modulation methods do not exceed the limits.



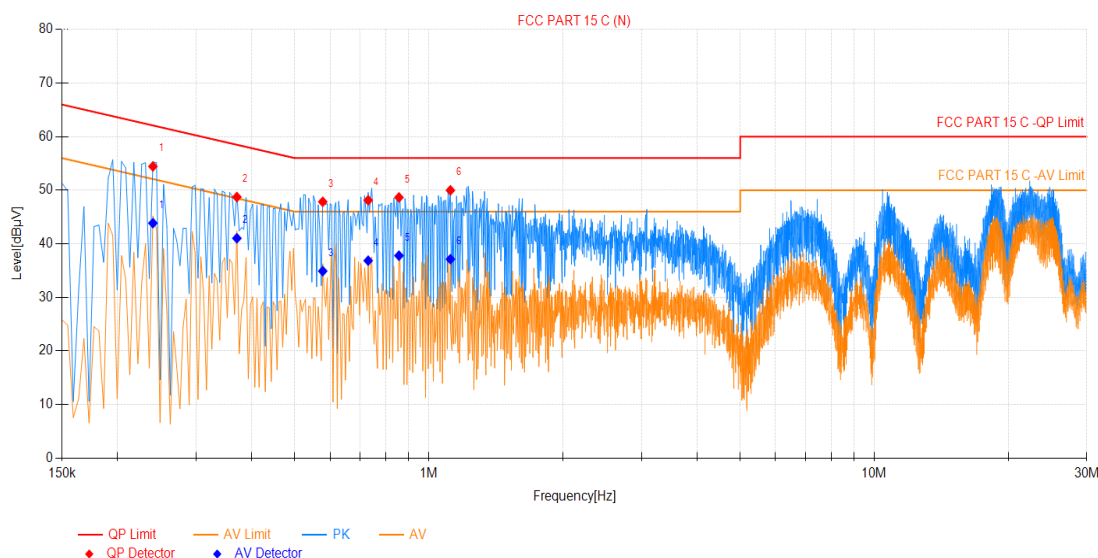
Line-AC 120V/60Hz



Final Data List											
NO.	Freq. [MHz]	QP Reading	Factor [dB]	QP Value	QP Limit	QP Margin	AV Reading	AV Value	AV Limit	AV Margin	Verdict
1	0.240	33.25	19.47	52.72	62.10	9.38	24.45	43.92	52.10	8.18	PASS
2	0.357	25.20	19.41	44.61	58.80	14.19	18.38	37.79	48.80	11.01	PASS
3	0.605	27.80	19.38	47.18	56.00	8.82	18.08	37.46	46.00	8.54	PASS
4	0.987	28.38	19.45	47.83	56.00	8.17	16.41	35.86	46.00	10.14	PASS
5	1.577	27.67	19.52	47.19	56.00	8.81	9.85	29.37	46.00	16.63	PASS
6	2.819	24.52	19.46	43.98	56.00	12.02	7.43	26.89	46.00	19.11	PASS



Neutral-AC 120V/60Hz



Final Data List											
NO.	Freq. [MHz]	QP Reading	Factor [dB]	QP Value	QP Limit	QP Margin	AV Reading	AV Value	AV Limit	AV Margin	Verdict
1	0.240	35.05	19.40	54.45	62.10	7.65	24.46	43.86	52.10	8.24	PASS
2	0.371	29.33	19.40	48.73	58.49	9.76	21.63	41.03	48.49	7.46	PASS
3	0.578	28.44	19.41	47.85	56.00	8.15	15.50	34.91	46.00	11.09	PASS
4	0.731	28.72	19.41	48.13	56.00	7.87	17.45	36.86	46.00	9.14	PASS
5	0.857	29.24	19.42	48.66	56.00	7.34	18.37	37.79	46.00	8.21	PASS
6	1.118	30.57	19.42	49.99	56.00	6.01	17.72	37.14	46.00	8.86	PASS

Note: QP Margin[dB]= QP Limit[dBμV]- QP Value[dBμV], AV Margin[dB]= AV Limit[dBμV]- AV Value[dBμV].



6 Radiated Spurious Emissions

Test Requirement	:	FCC CFR47 Part 15 Section 15.209 & 15.407(b)
Test Method	:	ANSI C63.10-2020
Test Result	:	PASS
Measurement Distance	:	3m

Limit

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -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.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

Further.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

(8) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits. As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz



As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

6.1 EUT Operation

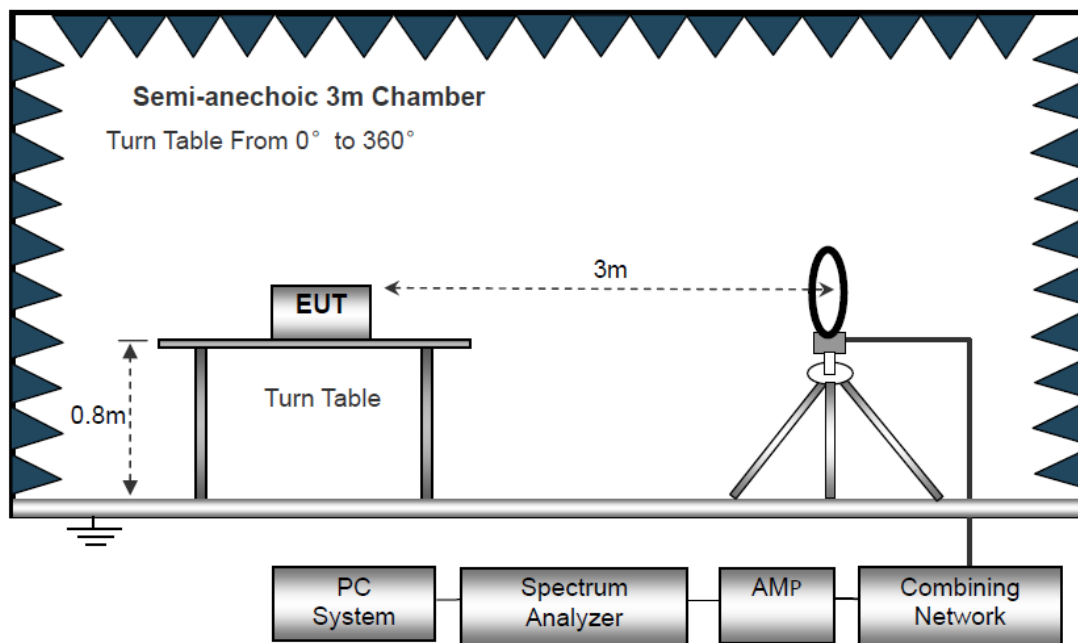
Operating Environment :

Temperature:	:	24.5 °C
Humidity:	:	52 % RH
Atmospheric Pressure:	:	101.3kPa
Test Voltage	:	AC 120V 60Hz

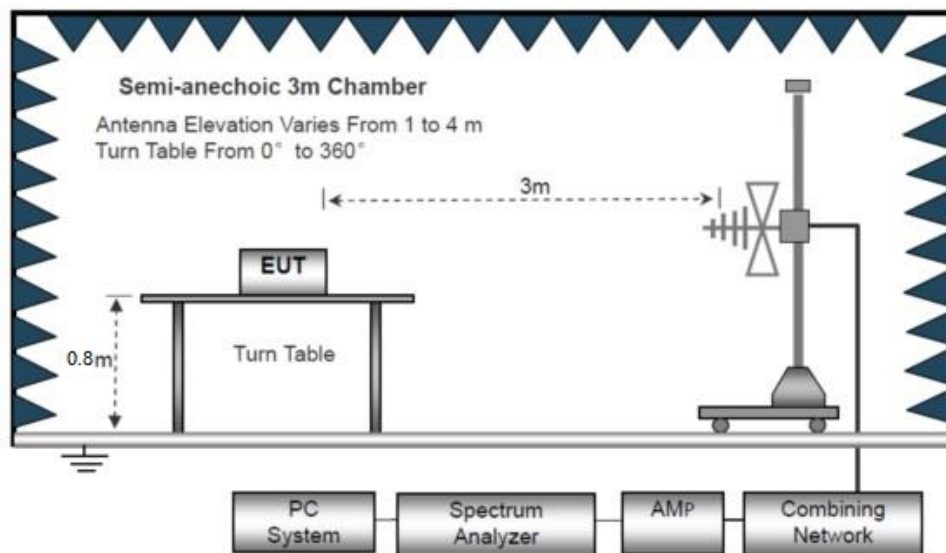
6.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site

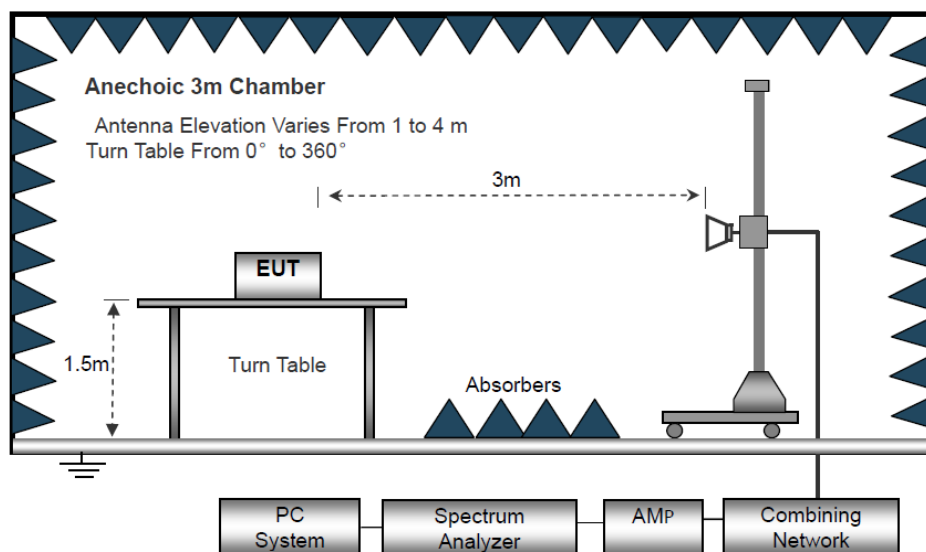
The test setup for emission measurement below 30MHz



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



The test setup for emission measurement above 1 GHz



6.3 Spectrum Analyzer Setup

Receiver Setup	Frequency	Detector	RBW	VBW	Remark
	Below 30MHz	--	10kHz	10kHz	--
	30MHz ~ 1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
		RMS	1MHz	3MHz	Average Value



6.4 Test Procedure

1. Below 1000MHz, The EUT was placed on a turn table which is 0.8m above ground plane, And above 1000MHz, The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room



6.5 Summary of Test Results

Test Frequency: 9KHz-30MHz

Note:

The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit 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.

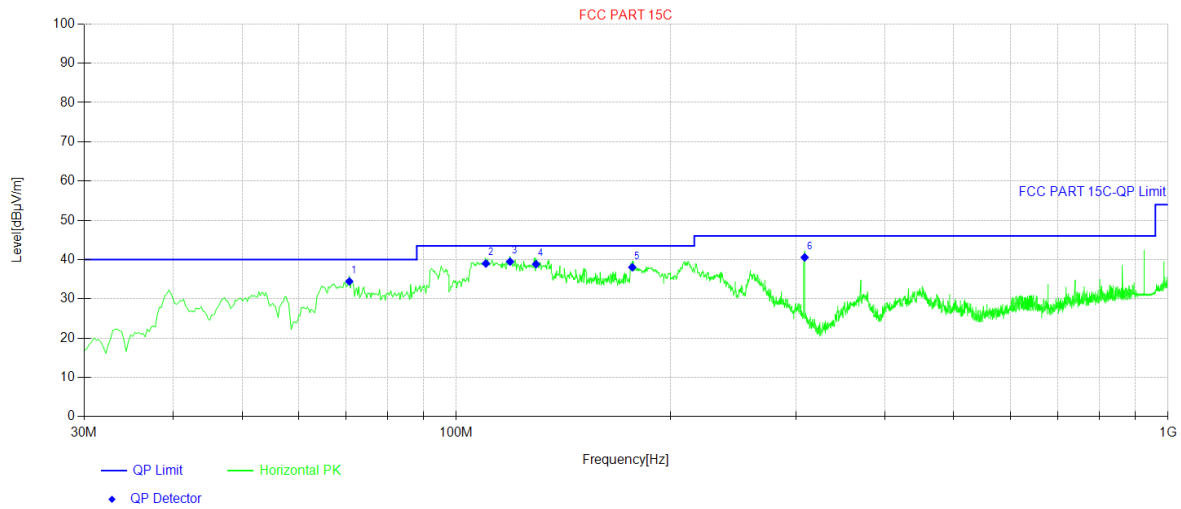
Test Frequency: 30MHz ~ 1GHz

All the modulation modes were tested the data of the worst mode (TX 802.11a Channel 36) are recorded in the following pages and the others modulation methods do not exceed the limits.

Please refer to the following test plots:



Antenna Polarization: Horizontal(CH36)

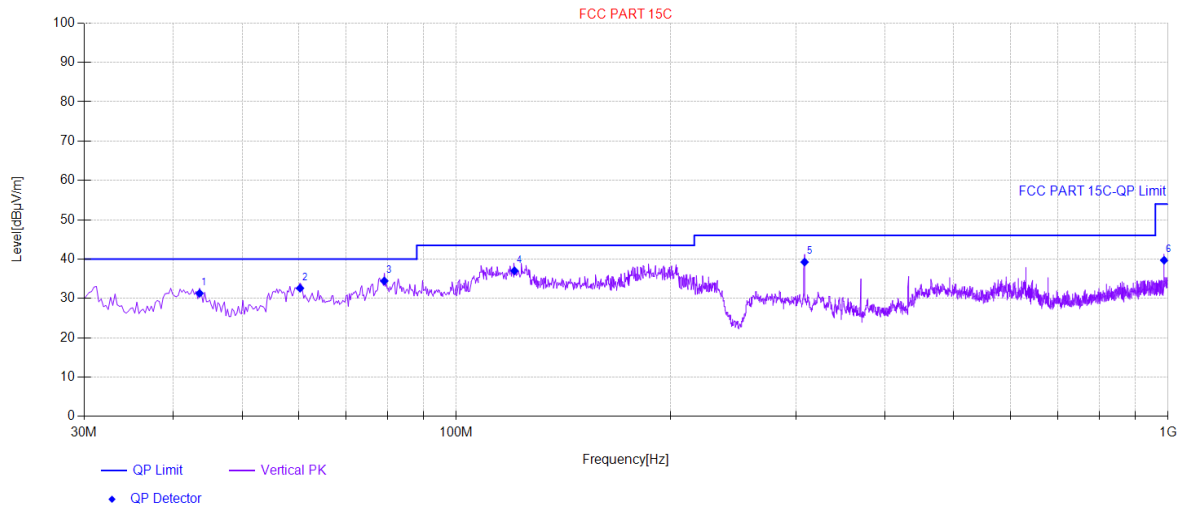


Final Data List[QP]								
NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	70.74	47.26	-12.82	34.44	40.00	5.56	Horizontal	PASS
2	110.03	49.77	-10.77	39.00	43.50	4.50	Horizontal	PASS
3	119.00	49.49	-10.01	39.48	43.50	4.02	Horizontal	PASS
4	129.43	48.11	-9.28	38.83	43.50	4.67	Horizontal	PASS
5	176.71	46.95	-8.91	38.04	43.50	5.46	Horizontal	PASS
6	308.63	46.71	-6.16	40.55	46.00	5.45	Horizontal	PASS

Remark:Emission Level=Reading+Cable Loss+ANT Factor-AMP Factor



Antenna Polarization: Vertical (CH36)



Final Data List[QP]

NO.	Freq. [MHz]	QP Reading [dBμV/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity	Verdict
1	43.58	41	-9.70	31.30	40.00	8.70	Vertical	PASS
2	60.31	43.64	-11.04	32.60	40.00	7.40	Vertical	PASS
3	79.23	49.52	-15.07	34.45	40.00	5.55	Vertical	PASS
4	120.70	46.91	-9.88	37.03	43.50	6.47	Vertical	PASS
5	308.63	45.41	-6.16	39.25	46.00	6.75	Vertical	PASS
6	987.39	30.77	8.94	39.71	54.00	14.29	Vertical	PASS

Remark: Emission Level = Reading + Cable Loss + ANT Factor - AMP Factor
 Note: only the worst case recorded in the report.



Test Frequency: From 1GHz to 40GHz

Pre-scan all test modes

Only the worst case Main test data.

802.11a

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	47.60	38.98	5.36	31.25	60.69	68.23	-7.54	V
15540	41.90	39.58	7.85	30.63	58.70	68.23	-9.53	V
20720	43.18	37.92	8.56	34.95	54.71	68.23	-13.52	V
10360	48.47	38.98	5.36	31.25	61.56	68.23	-6.67	H
15540	42.32	39.58	7.85	30.63	59.12	68.23	-9.11	H
20720	43.06	37.92	8.56	34.95	54.59	68.23	-13.64	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	33.05	38.98	5.36	31.25	46.14	54	-7.86	V
15540	30.30	39.58	7.85	30.63	47.10	54	-6.90	V
20720	28.17	37.92	8.56	34.95	39.70	54	-14.30	V
10360	32.92	38.98	5.36	31.25	46.01	54	-7.99	H
15540	24.95	39.58	7.85	30.63	41.75	54	-12.25	H
20720	27.09	37.92	8.56	34.95	38.62	54	-15.38	H



802.11a

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	47.62	39.10	5.36	31.25	60.83	68.23	-7.40	V
15600	43.54	39.70	7.85	30.63	60.46	68.23	-7.77	V
20800	44.15	37.84	8.56	34.95	55.60	68.23	-12.63	V
10400	46.98	39.10	5.36	31.25	60.19	68.23	-8.04	H
15600	42.22	39.70	7.85	30.63	59.14	68.23	-9.09	H
20800	43.15	37.84	8.56	34.95	54.60	68.23	-13.63	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	33.43	39.10	5.36	31.25	46.64	54	-7.36	V
15600	29.01	39.70	7.85	30.63	45.93	54	-8.07	V
20800	29.38	37.84	8.56	34.95	40.83	54	-13.17	V
10400	32.91	39.10	5.36	31.25	46.12	54	-7.88	H
15600	28.84	39.70	7.85	30.63	45.76	54	-8.24	H
20800	29.82	37.84	8.56	34.95	41.27	54	-12.73	H



802.11a

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.51	39.34	5.36	31.25	58.96	68.23	-9.27	V
17520	43.11	39.72	7.85	30.63	60.05	68.23	-8.18	V
20960	44.21	37.65	8.56	34.95	55.47	68.23	-12.76	V
10480	47.13	39.34	5.36	31.25	60.58	68.23	-7.65	H
17520	45.41	39.72	7.85	30.63	62.35	68.23	-5.88	H
20960	45.98	37.65	8.56	34.95	57.24	68.23	-10.99	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	33.45	39.34	5.36	31.25	46.90	54	-7.10	V
17520	28.70	39.72	7.85	30.63	45.64	54	-8.36	V
20960	29.93	37.65	8.56	34.95	41.19	54	-12.81	V
10480	32.12	39.34	5.36	31.25	45.57	54	-8.43	H
17520	27.01	39.72	7.85	30.63	43.95	54	-10.05	H
20960	29.21	37.65	8.56	34.95	40.47	54	-13.53	H



802.11a

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	47.84	39.65	5.42	31.75	61.16	68.23	-7.07	V
17235	42.00	41.28	7.32	30.96	59.64	68.23	-8.59	V
22980	43.80	37.12	8.85	35.25	54.52	68.23	-13.71	V
11490	49.43	39.65	5.42	31.75	62.75	68.23	-5.48	H
17235	44.03	41.28	7.32	30.96	61.67	68.23	-6.56	H
22980	44.37	37.12	8.85	35.25	55.09	68.23	-13.14	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	32.33	39.65	5.42	31.75	45.65	54	-8.35	V
17235	29.74	41.28	7.32	30.96	47.38	54	-6.62	V
22980	29.55	37.12	8.85	35.25	40.27	54	-13.73	V
11490	31.33	39.65	5.42	31.75	44.65	54	-9.35	H
17235	28.71	41.28	7.32	30.96	46.35	54	-7.65	H
22980	29.31	37.12	8.85	35.25	40.03	54	-13.97	H



802.11a

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	48.41	39.84	5.42	31.75	61.92	68.23	-6.31	V
17355	44.28	42.02	7.32	30.96	62.66	68.23	-5.57	V
23140	45.04	37.32	8.85	35.25	55.96	68.23	-12.27	V
11570	48.24	39.84	5.42	31.75	61.75	68.23	-6.48	H
17355	42.08	42.02	7.32	30.96	60.46	68.23	-7.77	H
23140	43.03	37.32	8.85	35.25	53.95	68.23	-14.28	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	33.32	39.84	5.42	31.75	46.83	54	-7.17	V
17355	29.51	42.02	7.32	30.96	47.89	54	-6.11	V
23140	28.35	37.32	8.85	35.25	39.27	54	-14.73	V
11570	34.41	39.84	5.42	31.75	47.92	54	-6.08	H
17355	29.48	42.02	7.32	30.96	47.86	54	-6.14	H
23140	29.45	37.32	8.85	35.25	40.37	54	-13.63	H



802.11a

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	48.59	39.80	5.42	31.75	62.06	68.23	-6.17	V
17475	44.33	42.13	7.32	30.96	62.82	68.23	-5.41	V
23300	45.86	37.60	8.85	35.25	57.06	68.23	-11.17	V
11650	49.28	39.80	5.42	31.75	62.75	68.23	-5.48	H
17475	44.52	42.13	7.32	30.96	63.01	68.23	-5.22	H
23300	45.31	37.60	8.85	35.25	56.51	68.23	-11.72	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	34.69	34.96	5.42	31.75	43.32	54	-10.68	V
17475	28.79	36.74	7.32	30.96	41.89	54	-12.11	V
23300	30.08	39.14	8.85	35.25	42.82	54	-11.18	V
11650	33.42	34.02	5.42	31.75	41.11	54	-12.89	H
17475	28.75	36.57	7.32	30.96	41.68	54	-12.32	H
23300	28.70	37.60	8.85	35.25	39.90	54	-14.10	H



802.11n20

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	47.12	38.98	5.36	31.25	60.21	68.23	-8.02	V
15540	41.98	39.58	7.85	30.63	58.78	68.23	-9.45	V
20720	43.13	37.92	8.56	34.95	54.66	68.23	-13.57	V
10360	48.12	38.98	5.36	31.25	61.21	68.23	-7.02	H
15540	42.53	39.58	7.85	30.63	59.33	68.23	-8.90	H
20720	42.53	37.92	8.56	34.95	54.06	68.23	-14.17	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	33.26	38.98	5.36	31.25	46.35	54	-7.65	V
15540	30.59	39.58	7.85	30.63	47.39	54	-6.61	V
20720	28.26	37.92	8.56	34.95	39.79	54	-14.21	V
10360	32.51	38.98	5.36	31.25	45.60	54	-8.40	H
15540	24.73	39.58	7.85	30.63	41.53	54	-12.47	H
20720	27.16	37.92	8.56	34.95	38.69	54	-15.31	H



802.11n20

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	48.00	39.10	5.36	31.25	61.21	68.23	-7.02	V
15600	43.22	39.70	7.85	30.63	60.14	68.23	-8.09	V
20800	44.42	37.84	8.56	34.95	55.87	68.23	-12.36	V
10400	46.85	39.10	5.36	31.25	60.06	68.23	-8.17	H
15600	41.99	39.70	7.85	30.63	58.91	68.23	-9.32	H
20800	43.42	37.84	8.56	34.95	54.87	68.23	-13.36	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	33.49	39.10	5.36	31.25	46.70	54	-7.30	V
15600	29.03	39.70	7.85	30.63	45.95	54	-8.05	V
20800	29.25	37.84	8.56	34.95	40.70	54	-13.30	V
10400	32.80	39.10	5.36	31.25	46.01	54	-7.99	H
15600	28.84	39.70	7.85	30.63	45.76	54	-8.24	H
20800	29.91	37.84	8.56	34.95	41.36	54	-12.64	H



802.11n20

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.49	39.34	5.36	31.25	58.94	68.23	-9.29	V
17520	43.17	39.72	7.85	30.63	60.11	68.23	-8.12	V
20960	43.88	37.65	8.56	34.95	55.14	68.23	-13.09	V
10480	47.15	39.34	5.36	31.25	60.60	68.23	-7.63	H
17520	45.25	39.72	7.85	30.63	62.19	68.23	-6.04	H
20960	46.44	37.65	8.56	34.95	57.70	68.23	-10.53	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	33.61	39.34	5.36	31.25	47.06	54	-6.94	V
17520	29.19	39.72	7.85	30.63	46.13	54	-7.87	V
20960	29.95	37.65	8.56	34.95	41.21	54	-12.79	V
10480	32.43	39.34	5.36	31.25	45.88	54	-8.12	H
17520	26.82	39.72	7.85	30.63	43.76	54	-10.24	H
20960	29.15	37.65	8.56	34.95	40.41	54	-13.59	H



802.11n20

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	47.52	39.65	5.42	31.75	60.84	68.23	-7.39	V
17235	42.42	41.28	7.32	30.96	60.06	68.23	-8.17	V
22980	44.05	37.12	8.85	35.25	54.77	68.23	-13.46	V
11490	49.46	39.65	5.42	31.75	62.78	68.23	-5.45	H
17235	44.35	41.28	7.32	30.96	61.99	68.23	-6.24	H
22980	44.17	37.12	8.85	35.25	54.89	68.23	-13.34	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	32.21	39.65	5.42	31.75	45.53	54	-8.47	V
17235	30.14	41.28	7.32	30.96	47.78	54	-6.22	V
22980	29.62	37.12	8.85	35.25	40.34	54	-13.66	V
11490	31.64	39.65	5.42	31.75	44.96	54	-9.04	H
17235	28.63	41.28	7.32	30.96	46.27	54	-7.73	H
22980	29.32	37.12	8.85	35.25	40.04	54	-13.96	H



802.11n20

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	48.66	39.84	5.42	31.75	62.17	68.23	-6.06	V
17355	44.27	42.02	7.32	30.96	62.65	68.23	-5.58	V
23140	45.33	37.32	8.85	35.25	56.25	68.23	-11.98	V
11570	48.42	39.84	5.42	31.75	61.93	68.23	-6.30	H
17355	42.15	42.02	7.32	30.96	60.53	68.23	-7.70	H
23140	43.03	37.32	8.85	35.25	53.95	68.23	-14.28	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	33.49	39.84	5.42	31.75	47.00	54	-7.00	V
17355	29.50	42.02	7.32	30.96	47.88	54	-6.12	V
23140	28.27	37.32	8.85	35.25	39.19	54	-14.81	V
11570	34.81	39.84	5.42	31.75	48.32	54	-5.68	H
17355	29.76	42.02	7.32	30.96	48.14	54	-5.86	H
23140	29.18	37.32	8.85	35.25	40.10	54	-13.90	H



802.11n20

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	48.29	39.80	5.42	31.75	61.76	68.23	-6.47	V
17475	44.66	42.13	7.32	30.96	63.15	68.23	-5.08	V
23300	45.45	37.60	8.85	35.25	56.65	68.23	-11.58	V
11650	49.31	39.80	5.42	31.75	62.78	68.23	-5.45	H
17475	44.49	42.13	7.32	30.96	62.98	68.23	-5.25	H
23300	45.17	37.60	8.85	35.25	56.37	68.23	-11.86	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	35.44	35.26	5.42	31.75	44.37	54	-9.63	V
17475	29.06	36.88	7.32	30.96	42.30	54	-11.70	V
23300	28.07	39.14	8.85	35.25	40.81	54	-13.19	V
11650	33.34	34.21	5.42	31.75	41.22	54	-12.78	H
17475	28.77	37.52	7.32	30.96	42.65	54	-11.35	H
23300	28.71	37.60	8.85	35.25	39.91	54	-14.09	H



802.11n40

Test Mode:5190					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	47.59	39.04	5.42	31.75	60.30	68.23	-7.93	V
15570	44.41	39.64	7.32	30.96	60.41	68.23	-7.82	V
20760	45.13	37.89	8.85	35.25	56.62	68.23	-11.61	V
10380	49.23	39.04	5.42	31.75	61.94	68.23	-6.29	H
15570	44.71	39.64	7.32	30.96	60.71	68.23	-7.52	H
20760	45.49	37.89	8.85	35.25	56.98	68.23	-11.25	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	35.53	39.04	5.42	31.75	48.24	54	-5.76	V
15570	28.72	39.64	7.32	30.96	44.72	54	-9.28	V
20760	28.06	37.89	8.85	35.25	39.55	54	-14.45	V
10380	33.16	39.04	5.42	31.75	45.87	54	-8.13	H
15570	28.32	39.64	7.32	30.96	44.32	54	-9.68	H
20760	28.75	37.89	8.85	35.25	40.24	54	-13.76	H



802.11n40

Test Mode:5230					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	47.64	39.28	5.42	31.75	60.59	68.23	-7.64	V
15690	44.75	39.79	7.32	30.96	60.90	68.23	-7.33	V
20920	45.09	37.70	8.85	35.25	56.39	68.23	-11.84	V
10460	49.37	39.28	5.42	31.75	62.32	68.23	-5.91	H
15690	44.40	39.79	7.32	30.96	60.55	68.23	-7.68	H
20920	45.09	37.70	8.85	35.25	56.39	68.23	-11.84	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	35.68	39.28	5.42	31.75	48.63	54	-5.37	V
15690	28.98	39.79	7.32	30.96	45.13	54	-8.87	V
20920	27.96	37.70	8.85	35.25	39.26	54	-14.74	V
10460	33.00	39.28	5.42	31.75	45.95	54	-8.05	H
15690	28.64	39.79	7.32	30.96	44.79	54	-9.21	H
20920	28.84	37.70	8.85	35.25	40.14	54	-13.86	H



U-NII-3– 802.11 n40

Test Mode: 5755					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11510	49.33	39.72	5.42	31.75	62.72	68.23	-5.51	V
17265	42.65	41.52	7.32	30.96	60.53	68.23	-7.70	V
23020	43.43	37.13	8.85	35.25	54.16	68.23	-14.07	V
11510	49.45	39.72	5.42	31.75	62.84	68.23	-5.39	H
17265	43.94	41.52	7.32	30.96	61.82	68.23	-6.41	H
23020	45.27	37.13	8.85	35.25	56.00	68.23	-12.23	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11510	33.79	39.72	5.42	31.75	47.18	54	-6.82	V
17265	29.69	41.52	7.32	30.96	47.57	54	-6.43	V
23020	29.39	37.13	8.85	35.25	40.12	54	-13.88	V
11510	33.06	39.72	5.42	31.75	46.45	54	-7.55	H
17265	28.32	41.52	7.32	30.96	46.20	54	-7.80	H
23020	29.12	37.13	8.85	35.25	39.85	54	-14.15	H



U-NII-3– 802.11 n40

Test Mode: 5795					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11590	45.77	39.88	5.42	31.75	59.32	68.23	-8.91	V
17385	44.36	42.14	7.32	30.96	62.86	68.23	-5.37	V
23180	45.01	37.39	8.85	35.25	56.00	68.23	-12.23	V
11590	48.26	39.88	5.42	31.75	61.81	68.23	-6.42	H
17385	42.54	42.14	7.32	30.96	61.04	68.23	-7.19	H
23180	41.76	37.39	8.85	35.25	52.75	68.23	-15.48	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11590	33.58	39.88	5.42	31.75	47.13	54	-6.87	V
17385	30.08	42.14	7.32	30.96	48.58	54	-5.42	V
23180	29.34	37.39	8.85	35.25	40.33	54	-13.67	V
11590	33.68	39.88	5.42	31.75	47.23	54	-6.77	H
17385	29.60	42.14	7.32	30.96	48.10	54	-5.90	H
23180	29.60	37.39	8.85	35.25	40.59	54	-13.41	H



802.11ac20

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	47.37	38.98	5.36	31.25	60.46	68.23	-7.77	V
15540	42.02	39.58	7.85	30.63	58.82	68.23	-9.41	V
20720	43.03	37.92	8.56	34.95	54.56	68.23	-13.67	V
10360	48.11	38.98	5.36	31.25	61.20	68.23	-7.03	H
15540	42.37	39.58	7.85	30.63	59.17	68.23	-9.06	H
20720	42.51	37.92	8.56	34.95	54.04	68.23	-14.19	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	33.32	38.98	5.36	31.25	46.41	54	-7.59	V
15540	30.10	39.58	7.85	30.63	46.90	54	-7.10	V
20720	28.05	37.92	8.56	34.95	39.58	54	-14.42	V
10360	32.57	38.98	5.36	31.25	45.66	54	-8.34	H
15540	24.68	39.58	7.85	30.63	41.48	54	-12.52	H
20720	27.12	37.92	8.56	34.95	38.65	54	-15.35	H



802.11ac20

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	47.89	39.10	5.36	31.25	61.10	68.23	-7.13	V
15600	43.39	39.70	7.85	30.63	60.31	68.23	-7.92	V
20800	44.37	37.84	8.56	34.95	55.82	68.23	-12.41	V
10400	46.71	39.10	5.36	31.25	59.92	68.23	-8.31	H
15600	42.21	39.70	7.85	30.63	59.13	68.23	-9.10	H
20800	43.22	37.84	8.56	34.95	54.67	68.23	-13.56	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	33.95	39.10	5.36	31.25	47.16	54	-6.84	V
15600	28.68	39.70	7.85	30.63	45.60	54	-8.40	V
20800	29.33	37.84	8.56	34.95	40.78	54	-13.22	V
10400	32.96	39.10	5.36	31.25	46.17	54	-7.83	H
15600	28.93	39.70	7.85	30.63	45.85	54	-8.15	H
20800	30.13	37.84	8.56	34.95	41.58	54	-12.42	H



802.11ac20

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.68	39.34	5.36	31.25	59.13	68.23	-9.10	V
17520	43.43	39.72	7.85	30.63	60.37	68.23	-7.86	V
20960	44.29	37.65	8.56	34.95	55.55	68.23	-12.68	V
10480	47.06	39.34	5.36	31.25	60.51	68.23	-7.72	H
17520	45.34	39.72	7.85	30.63	62.28	68.23	-5.95	H
20960	46.43	37.65	8.56	34.95	57.69	68.23	-10.54	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	33.52	39.34	5.36	31.25	46.97	54	-7.03	V
17520	29.07	39.72	7.85	30.63	46.01	54	-7.99	V
20960	30.17	37.65	8.56	34.95	41.43	54	-12.57	V
10480	32.43	39.34	5.36	31.25	45.88	54	-8.12	H
17520	27.03	39.72	7.85	30.63	43.97	54	-10.03	H
20960	28.98	37.65	8.56	34.95	40.24	54	-13.76	H



802.11ac20

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	47.50	39.65	5.42	31.75	60.82	68.23	-7.41	V
17235	42.19	41.28	7.32	30.96	59.83	68.23	-8.40	V
22980	44.21	37.12	8.85	35.25	54.93	68.23	-13.30	V
11490	49.54	39.65	5.42	31.75	62.86	68.23	-5.37	H
17235	44.26	41.28	7.32	30.96	61.90	68.23	-6.33	H
22980	44.61	37.12	8.85	35.25	55.33	68.23	-12.90	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	31.97	39.65	5.42	31.75	45.29	54	-8.71	V
17235	29.95	41.28	7.32	30.96	47.59	54	-6.41	V
22980	29.70	37.12	8.85	35.25	40.42	54	-13.58	V
11490	31.56	39.65	5.42	31.75	44.88	54	-9.12	H
17235	29.00	41.28	7.32	30.96	46.64	54	-7.36	H
22980	29.17	37.12	8.85	35.25	39.89	54	-14.11	H



802.11ac20

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	48.38	39.84	5.42	31.75	61.89	68.23	-6.34	V
17355	44.04	42.02	7.32	30.96	62.42	68.23	-5.81	V
23140	45.30	37.32	8.85	35.25	56.22	68.23	-12.01	V
11570	48.62	39.84	5.42	31.75	62.13	68.23	-6.10	H
17355	42.38	42.02	7.32	30.96	60.76	68.23	-7.47	H
23140	43.33	37.32	8.85	35.25	54.25	68.23	-13.98	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	33.26	39.84	5.42	31.75	46.77	54	-7.23	V
17355	29.69	42.02	7.32	30.96	48.07	54	-5.93	V
23140	28.68	37.32	8.85	35.25	39.60	54	-14.40	V
11570	34.89	39.84	5.42	31.75	48.40	54	-5.60	H
17355	29.42	42.02	7.32	30.96	47.80	54	-6.20	H
23140	29.43	37.32	8.85	35.25	40.35	54	-13.65	H



802.11ac20

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	48.68	39.80	5.42	31.75	62.15	68.23	-6.08	V
17475	44.72	42.13	7.32	30.96	63.21	68.23	-5.02	V
23300	45.36	37.60	8.85	35.25	56.56	68.23	-11.67	V
11650	49.13	39.80	5.42	31.75	62.60	68.23	-5.63	H
17475	44.17	42.13	7.32	30.96	62.66	68.23	-5.57	H
23300	44.96	37.60	8.85	35.25	56.16	68.23	-12.07	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	34.58	35.26	5.42	31.75	43.51	54	-10.49	V
17475	28.81	36.88	7.32	30.96	42.05	54	-11.95	V
23300	29.92	39.14	8.85	35.25	42.66	54	-11.34	V
11650	33.58	34.21	5.42	31.75	41.46	54	-12.54	H
17475	28.65	37.52	7.32	30.96	42.53	54	-11.47	H
23300	28.73	37.60	8.85	35.25	39.93	54	-14.07	H



802.11ac40

Test Mode:5190					Test channel:LOW			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	47.59	39.04	5.42	31.75	60.30	68.23	-7.93	V
15570	44.49	39.64	7.32	30.96	60.49	68.23	-7.74	V
20760	44.92	37.89	8.85	35.25	56.41	68.23	-11.82	V
10380	49.03	39.04	5.42	31.75	61.74	68.23	-6.49	H
15570	44.89	39.64	7.32	30.96	60.89	68.23	-7.34	H
20760	45.11	37.89	8.85	35.25	56.60	68.23	-11.63	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	35.38	39.04	5.42	31.75	48.09	54	-5.91	V
15570	29.08	39.64	7.32	30.96	45.08	54	-8.92	V
20760	27.57	37.89	8.85	35.25	39.06	54	-14.94	V
10380	32.96	39.04	5.42	31.75	45.67	54	-8.33	H
15570	28.77	39.64	7.32	30.96	44.77	54	-9.23	H
20760	28.84	37.89	8.85	35.25	40.33	54	-13.67	H



802.11ac40

Test Mode:5230					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	47.83	39.28	5.42	31.75	60.78	68.23	-7.45	V
15690	44.74	39.79	7.32	30.96	60.89	68.23	-7.34	V
20920	44.85	37.70	8.85	35.25	56.15	68.23	-12.08	V
10460	49.23	39.28	5.42	31.75	62.18	68.23	-6.05	H
15690	44.53	39.79	7.32	30.96	60.68	68.23	-7.55	H
20920	45.50	37.70	8.85	35.25	56.80	68.23	-11.43	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	35.36	39.28	5.42	31.75	48.31	54	-5.69	V
15690	29.27	39.79	7.32	30.96	45.42	54	-8.58	V
20920	27.73	37.70	8.85	35.25	39.03	54	-14.97	V
10460	33.07	39.28	5.42	31.75	46.02	54	-7.98	H
15690	28.39	39.79	7.32	30.96	44.54	54	-9.46	H
20920	29.12	37.70	8.85	35.25	40.42	54	-13.58	H



U-NII-3– 802.11 ac40

Test Mode: 5755					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11510	49.27	39.72	5.42	31.75	62.66	68.23	-5.57	V
17265	42.29	41.52	7.32	30.96	60.17	68.23	-8.06	V
23020	43.00	37.13	8.85	35.25	53.73	68.23	-14.50	V
11510	49.20	39.72	5.42	31.75	62.59	68.23	-5.64	H
17265	43.80	41.52	7.32	30.96	61.68	68.23	-6.55	H
23020	45.03	37.13	8.85	35.25	55.76	68.23	-12.47	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11510	33.58	39.72	5.42	31.75	46.97	54	-7.03	V
17265	29.72	41.52	7.32	30.96	47.60	54	-6.40	V
23020	29.70	37.13	8.85	35.25	40.43	54	-13.57	V
11510	33.54	39.72	5.42	31.75	46.93	54	-7.07	H
17265	28.39	41.52	7.32	30.96	46.27	54	-7.73	H
23020	29.36	37.13	8.85	35.25	40.09	54	-13.91	H



U-NII-3– 802.11 ac40

Test Mode: 5795					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11590	45.65	39.88	5.42	31.75	59.20	68.23	-9.03	V
17385	44.08	42.14	7.32	30.96	62.58	68.23	-5.65	V
23180	45.24	37.39	8.85	35.25	56.23	68.23	-12.00	V
11590	48.24	39.88	5.42	31.75	61.79	68.23	-6.44	H
17385	42.78	42.14	7.32	30.96	61.28	68.23	-6.95	H
23180	41.97	37.39	8.85	35.25	52.96	68.23	-15.27	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11590	33.57	39.88	5.42	31.75	47.12	54	-6.88	V
17385	30.41	42.14	7.32	30.96	48.91	54	-5.09	V
23180	29.69	37.39	8.85	35.25	40.68	54	-13.32	V
11590	33.77	39.88	5.42	31.75	47.32	54	-6.68	H
17385	29.72	42.14	7.32	30.96	48.22	54	-5.78	H
23180	29.45	37.39	8.85	35.25	40.44	54	-13.56	H



802.11ax20

Test Mode: 5180					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	47.14	38.98	5.36	31.25	60.23	68.23	-8.00	V
15540	41.97	39.58	7.85	30.63	58.77	68.23	-9.46	V
20720	43.46	37.92	8.56	34.95	54.99	68.23	-13.24	V
10360	48.54	38.98	5.36	31.25	61.63	68.23	-6.60	H
15540	42.23	39.58	7.85	30.63	59.03	68.23	-9.20	H
20720	42.93	37.92	8.56	34.95	54.46	68.23	-13.77	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10360	33.09	38.98	5.36	31.25	46.18	54	-7.82	V
15540	30.26	39.58	7.85	30.63	47.06	54	-6.94	V
20720	28.32	37.92	8.56	34.95	39.85	54	-14.15	V
10360	32.61	38.98	5.36	31.25	45.70	54	-8.30	H
15540	24.70	39.58	7.85	30.63	41.50	54	-12.50	H
20720	27.42	37.92	8.56	34.95	38.95	54	-15.05	H



802.11ax20

Test Mode:5200					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	47.97	39.10	5.36	31.25	61.18	68.23	-7.05	V
15600	43.60	39.70	7.85	30.63	60.52	68.23	-7.71	V
20800	44.21	37.84	8.56	34.95	55.66	68.23	-12.57	V
10400	46.71	39.10	5.36	31.25	59.92	68.23	-8.31	H
15600	41.76	39.70	7.85	30.63	58.68	68.23	-9.55	H
20800	43.62	37.84	8.56	34.95	55.07	68.23	-13.16	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10400	33.92	39.10	5.36	31.25	47.13	54	-6.87	V
15600	28.94	39.70	7.85	30.63	45.86	54	-8.14	V
20800	29.70	37.84	8.56	34.95	41.15	54	-12.85	V
10400	32.83	39.10	5.36	31.25	46.04	54	-7.96	H
15600	29.27	39.70	7.85	30.63	46.19	54	-7.81	H
20800	30.06	37.84	8.56	34.95	41.51	54	-12.49	H



802.11ax20

Test Mode:5240					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	45.64	39.34	5.36	31.25	59.09	68.23	-9.14	V
17520	43.03	39.72	7.85	30.63	59.97	68.23	-8.26	V
20960	44.40	37.65	8.56	34.95	55.66	68.23	-12.57	V
10480	46.97	39.34	5.36	31.25	60.42	68.23	-7.81	H
17520	45.38	39.72	7.85	30.63	62.32	68.23	-5.91	H
20960	46.45	37.65	8.56	34.95	57.71	68.23	-10.52	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10480	33.37	39.34	5.36	31.25	46.82	54	-7.18	V
17520	28.68	39.72	7.85	30.63	45.62	54	-8.38	V
20960	29.75	37.65	8.56	34.95	41.01	54	-12.99	V
10480	32.03	39.34	5.36	31.25	45.48	54	-8.52	H
17520	27.29	39.72	7.85	30.63	44.23	54	-9.77	H
20960	28.98	37.65	8.56	34.95	40.24	54	-13.76	H



802.11ax20

Test Mode: 5745					Test channel: Lowest			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	47.44	39.65	5.42	31.75	60.76	68.23	-7.47	V
17235	42.44	41.28	7.32	30.96	60.08	68.23	-8.15	V
22980	44.06	37.12	8.85	35.25	54.78	68.23	-13.45	V
11490	49.69	39.65	5.42	31.75	63.01	68.23	-5.22	H
17235	44.37	41.28	7.32	30.96	62.01	68.23	-6.22	H
22980	44.48	37.12	8.85	35.25	55.20	68.23	-13.03	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11490	32.24	39.65	5.42	31.75	45.56	54	-8.44	V
17235	29.75	41.28	7.32	30.96	47.39	54	-6.61	V
22980	29.27	37.12	8.85	35.25	39.99	54	-14.01	V
11490	31.62	39.65	5.42	31.75	44.94	54	-9.06	H
17235	28.77	41.28	7.32	30.96	46.41	54	-7.59	H
22980	29.28	37.12	8.85	35.25	40.00	54	-14.00	H



802.11ax20

Test Mode:5785					Test channel: Middle			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	48.66	39.84	5.42	31.75	62.17	68.23	-6.06	V
17355	44.53	42.02	7.32	30.96	62.91	68.23	-5.32	V
23140	45.40	37.32	8.85	35.25	56.32	68.23	-11.91	V
11570	48.29	39.84	5.42	31.75	61.80	68.23	-6.43	H
17355	42.50	42.02	7.32	30.96	60.88	68.23	-7.35	H
23140	43.24	37.32	8.85	35.25	54.16	68.23	-14.07	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11570	32.96	39.84	5.42	31.75	46.47	54	-7.53	V
17355	29.43	42.02	7.32	30.96	47.81	54	-6.19	V
23140	28.36	37.32	8.85	35.25	39.28	54	-14.72	V
11570	34.41	39.84	5.42	31.75	47.92	54	-6.08	H
17355	29.32	42.02	7.32	30.96	47.70	54	-6.30	H
23140	29.51	37.32	8.85	35.25	40.43	54	-13.57	H



802.11ax20

Test Mode:5825					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	48.32	39.80	5.42	31.75	61.79	68.23	-6.44	V
17475	44.50	42.13	7.32	30.96	62.99	68.23	-5.24	V
23300	45.53	37.60	8.85	35.25	56.73	68.23	-11.50	V
11650	49.49	39.80	5.42	31.75	62.96	68.23	-5.27	H
17475	44.66	42.13	7.32	30.96	63.15	68.23	-5.08	H
23300	45.00	37.60	8.85	35.25	56.20	68.23	-12.03	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11650	34.58	35.26	5.42	31.75	43.51	54	-10.49	V
17475	28.81	36.88	7.32	30.96	42.05	54	-11.95	V
23300	29.92	39.14	8.85	35.25	42.66	54	-11.34	V
11650	33.58	34.21	5.42	31.75	41.46	54	-12.54	H
17475	28.65	37.52	7.32	30.96	42.53	54	-11.47	H
23300	28.25	37.60	8.85	35.25	39.45	54	-14.55	H



802.11ax40

Test Mode:5190					Test channel:LOW			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	47.68	39.04	5.42	31.75	60.39	68.23	-7.84	V
15570	44.30	39.64	7.32	30.96	60.30	68.23	-7.93	V
20760	45.37	37.89	8.85	35.25	56.86	68.23	-11.37	V
10380	49.37	39.04	5.42	31.75	62.08	68.23	-6.15	H
15570	44.38	39.64	7.32	30.96	60.38	68.23	-7.85	H
20760	45.26	37.89	8.85	35.25	56.75	68.23	-11.48	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10380	35.89	39.04	5.42	31.75	48.60	54	-5.40	V
15570	28.89	39.64	7.32	30.96	44.89	54	-9.11	V
20760	28.09	37.89	8.85	35.25	39.58	54	-14.42	V
10380	33.17	39.04	5.42	31.75	45.88	54	-8.12	H
15570	28.78	39.64	7.32	30.96	44.78	54	-9.22	H
20760	28.97	37.89	8.85	35.25	40.46	54	-13.54	H



802.11ax40

Test Mode:5230					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	47.50	39.28	5.42	31.75	60.45	68.23	-7.78	V
15690	44.55	39.79	7.32	30.96	60.70	68.23	-7.53	V
20920	44.89	37.70	8.85	35.25	56.19	68.23	-12.04	V
10460	49.41	39.28	5.42	31.75	62.36	68.23	-5.87	H
15690	44.65	39.79	7.32	30.96	60.80	68.23	-7.43	H
20920	45.17	37.70	8.85	35.25	56.47	68.23	-11.76	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
10460	35.51	39.28	5.42	31.75	48.46	54	-5.54	V
15690	29.17	39.79	7.32	30.96	45.32	54	-8.68	V
20920	28.03	37.70	8.85	35.25	39.33	54	-14.67	V
10460	32.98	39.28	5.42	31.75	45.93	54	-8.07	H
15690	28.39	39.79	7.32	30.96	44.54	54	-9.46	H
20920	28.74	37.70	8.85	35.25	40.04	54	-13.96	H



U-NII-3– 802.11 ax40

Test Mode: 5755					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11510	49.14	39.72	5.42	31.75	62.53	68.23	-5.70	V
17265	42.54	41.52	7.32	30.96	60.42	68.23	-7.81	V
23020	43.36	37.13	8.85	35.25	54.09	68.23	-14.14	V
11510	49.13	39.72	5.42	31.75	62.52	68.23	-5.71	H
17265	43.94	41.52	7.32	30.96	61.82	68.23	-6.41	H
23020	44.75	37.13	8.85	35.25	55.48	68.23	-12.75	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11510	33.87	39.72	5.42	31.75	47.26	54	-6.74	V
17265	29.78	41.52	7.32	30.96	47.66	54	-6.34	V
23020	29.85	37.13	8.85	35.25	40.58	54	-13.42	V
11510	33.18	39.72	5.42	31.75	46.57	54	-7.43	H
17265	28.35	41.52	7.32	30.96	46.23	54	-7.77	H
23020	29.12	37.13	8.85	35.25	39.85	54	-14.15	H



U-NII-3– 802.11 ax40

Test Mode: 5795					Test channel: High			
Peak Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11590	46.00	39.88	5.42	31.75	59.55	68.23	-8.68	V
17385	44.12	42.14	7.32	30.96	62.62	68.23	-5.61	V
23180	44.96	37.39	8.85	35.25	55.95	68.23	-12.28	V
11590	48.33	39.88	5.42	31.75	61.88	68.23	-6.35	H
17385	42.73	42.14	7.32	30.96	61.23	68.23	-7.00	H
23180	42.09	37.39	8.85	35.25	53.08	68.23	-15.15	H
Average Value								
Frequency (MHz)	Read Level (dBuV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Level (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Pol.
11590	33.62	39.88	5.42	31.75	47.17	54	-6.83	V
17385	30.12	42.14	7.32	30.96	48.62	54	-5.38	V
23180	29.72	37.39	8.85	35.25	40.71	54	-13.29	V
11590	33.39	39.88	5.42	31.75	46.94	54	-7.06	H
17385	29.71	42.14	7.32	30.96	48.21	54	-5.79	H
23180	29.07	37.39	8.85	35.25	40.06	54	-13.94	H

Note:

1. The testing has been conformed to 40GHz.
2. All other emissions more than 30dB below the limit.
3. Factor = Antenna Factor + Cable Loss – Pre-amplifier.
Emission Level = Reading + Factor
Margin=Emission Level-Limit
4. X-Axis, Y-Axis and Z-Axis were investigated. The results above show only the worst case.



6.6 Band edge measurements

Test Result:

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.55	≤ -27	PASS
11A	Ant1	High	5240	-37.88	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-37.81	≤ -27	PASS
11N20SISO	Ant1	High	5240	-37.9	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-37.37	≤ -27	PASS
11N40SISO	Ant1	High	5230	-37.9	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-38.17	≤ -27	PASS
11AC20SISO	Ant1	High	5240	-37.53	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-37.66	≤ -27	PASS
11AC40SISO	Ant1	High	5230	-38.41	≤ -27	PASS
11AX20SISO	Ant1	Low	5180	-37.32	≤ -27	PASS
11AX20SISO	Ant1	High	5240	-37.98	≤ -27	PASS
11AX40SISO	Ant1	Low	5190	-37.79	≤ -27	PASS
11AX40SISO	Ant1	High	5230	-38.06	≤ -27	PASS

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-39.12	≤ 18.18	PASS
11A	Ant1	Low	5745	5700~5720	-38.83	≤ 12.31	PASS
11A	Ant1	Low	5745	5650~5700	-38.26	≤ -15.21	PASS
11A	Ant1	Low	5745	5760~5650	-39.66	≤ -27	PASS
11A	Ant1	High	5825	5850~5855	-39.42	≤ 21.95	PASS
11A	Ant1	High	5825	5855~5875	-38.32	≤ 10.51	PASS
11A	Ant1	High	5825	5875~5925	-38.72	≤ -22.26	PASS
11A	Ant1	High	5825	5925~5935	-39.28	≤ -27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-39.66	≤ 22.63	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-38.46	≤ 15.05	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-37.98	≤ -25.85	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-38.6	≤ -27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-38.3	≤ 18.87	PASS
11N20SISO	Ant1	High	5825	5855~5875	-38.72	≤ 15.01	PASS
11N20SISO	Ant1	High	5825	5875~5925	-38.27	≤ -2.88	PASS
11N20SISO	Ant1	High	5825	5925~5935	-39.48	≤ -27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-37.2	≤ 16.66	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-37.89	≤ 15.28	PASS



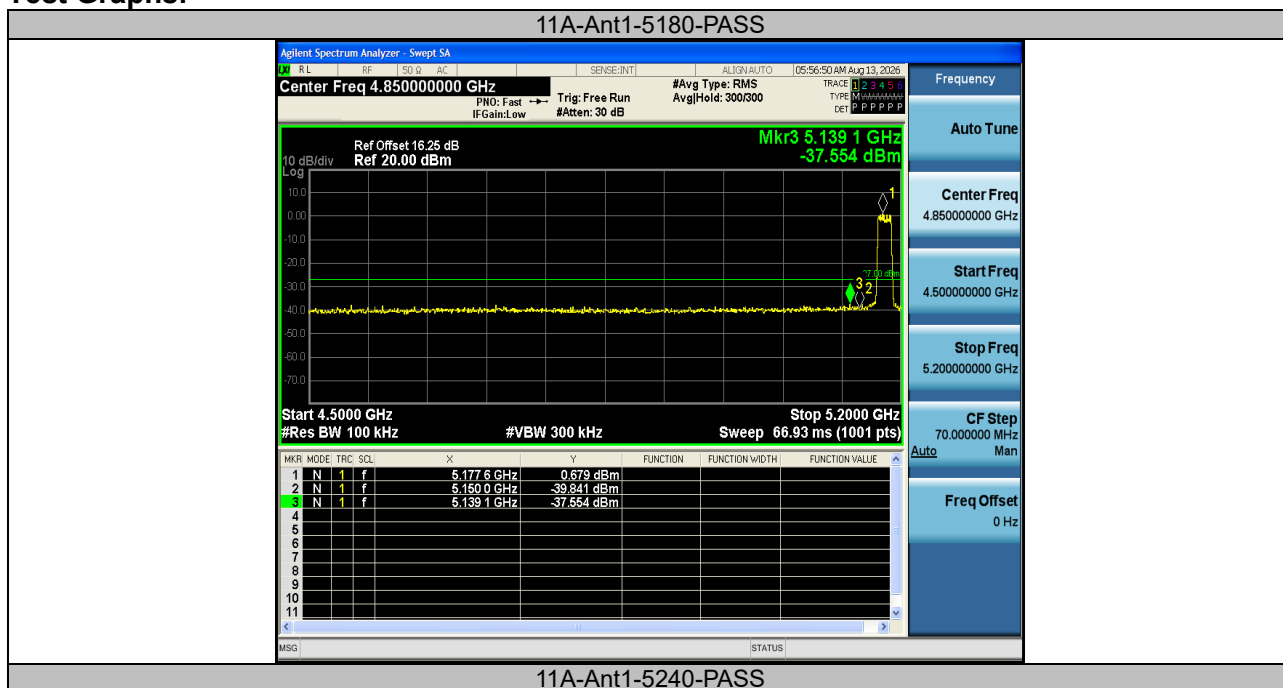
11N40SIS O	Ant1	Low	5755	5650~5700	-38.57	≤ -17.91	PASS
11N40SIS O	Ant1	Low	5755	5780~5650	-39.81	≤ -27	PASS
11N40SIS O	Ant1	High	5795	5850~5855	-38.83	≤ 19.42	PASS
11N40SIS O	Ant1	High	5795	5855~5875	-38.83	≤ 15.31	PASS
11N40SIS O	Ant1	High	5795	5875~5925	-38.39	≤ -18.99	PASS
11N40SIS O	Ant1	High	5795	5925~5935	-39.06	≤ -27	PASS
11AC20SIS O	Ant1	Low	5745	5720~5725	-37.73	≤ 22.11	PASS
11AC20SIS O	Ant1	Low	5745	5700~5720	-38.98	≤ 12.57	PASS
11AC20SIS O	Ant1	Low	5745	5650~5700	-38.38	≤ -25.51	PASS
11AC20SIS O	Ant1	Low	5745	5760~5650	-39.51	≤ -27	PASS
11AC20SIS O	Ant1	High	5825	5850~5855	-38.58	≤ 21.64	PASS
11AC20SIS O	Ant1	High	5825	5855~5875	-38.92	≤ 12.48	PASS
11AC20SIS O	Ant1	High	5825	5875~5925	-38.46	≤ -0.88	PASS
11AC20SIS O	Ant1	High	5825	5925~5935	-39.36	≤ -27	PASS
11AC40SIS O	Ant1	Low	5755	5720~5725	-36.33	≤ 26.20	PASS
11AC40SIS O	Ant1	Low	5755	5700~5720	-35.37	≤ 15.16	PASS
11AC40SIS O	Ant1	Low	5755	5650~5700	-38.81	≤ -10.92	PASS
11AC40SIS O	Ant1	Low	5755	5780~5650	-38.68	≤ -27	PASS
11AC40SIS O	Ant1	High	5795	5850~5855	-38.7	≤ 22.05	PASS
11AC40SIS O	Ant1	High	5795	5855~5875	-37.45	≤ 10.92	PASS
11AC40SIS O	Ant1	High	5795	5875~5925	-38.76	≤ -7.87	PASS
11AC40SIS O	Ant1	High	5795	5925~5935	-39.05	≤ -27	PASS
11AX20SIS O	Ant1	Low	5745	5720~5725	-37.53	≤ 16.34	PASS
11AX20SIS O	Ant1	Low	5745	5700~5720	-39.4	≤ 10.83	PASS
11AX20SIS O	Ant1	Low	5745	5650~5700	-38.97	≤ -15.55	PASS
11AX20SIS O	Ant1	Low	5745	5760~5650	-39.06	≤ -27	PASS
11AX20SIS O	Ant1	High	5825	5850~5855	-38.71	≤ 26.87	PASS
11AX20SIS O	Ant1	High	5825	5855~5875	-38.22	≤ 10.55	PASS
11AX20SIS	Ant1	High	5825	5875~5925	-38.43	≤ -6.58	PASS

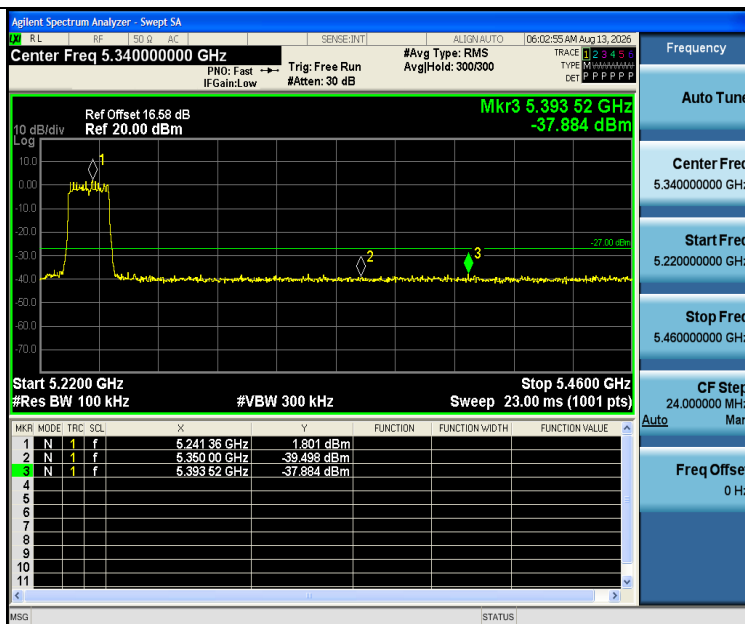


O							
11AX20SIS	Ant1	High	5825	5925~5935	-38.86	≤-27	PASS
O							
11AX40SIS	Ant1	Low	5755	5720~5725	-38.7	≤24.05	PASS
O							
11AX40SIS	Ant1	Low	5755	5700~5720	-39.21	≤10.82	PASS
O							
11AX40SIS	Ant1	Low	5755	5650~5700	-38.71	≤0.37	PASS
O							
11AX40SIS	Ant1	Low	5755	5780~5650	-38.91	≤-27	PASS
O							
11AX40SIS	Ant1	High	5795	5850~5855	-38.93	≤24.31	PASS
O							
11AX40SIS	Ant1	High	5795	5855~5875	-38.87	≤13.50	PASS
O							
11AX40SIS	Ant1	High	5795	5875~5925	-36.6	≤-16.42	PASS
O							
11AX40SIS	Ant1	High	5795	5925~5935	-38.56	≤-27	PASS

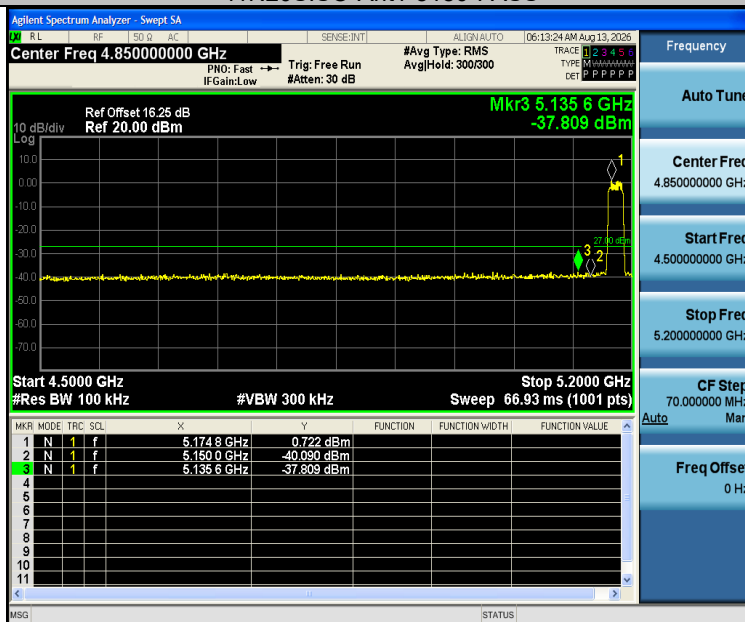
Note: 1. The Max. Level has been corrected by the cable loss and antenna gain.

Test Graphs:

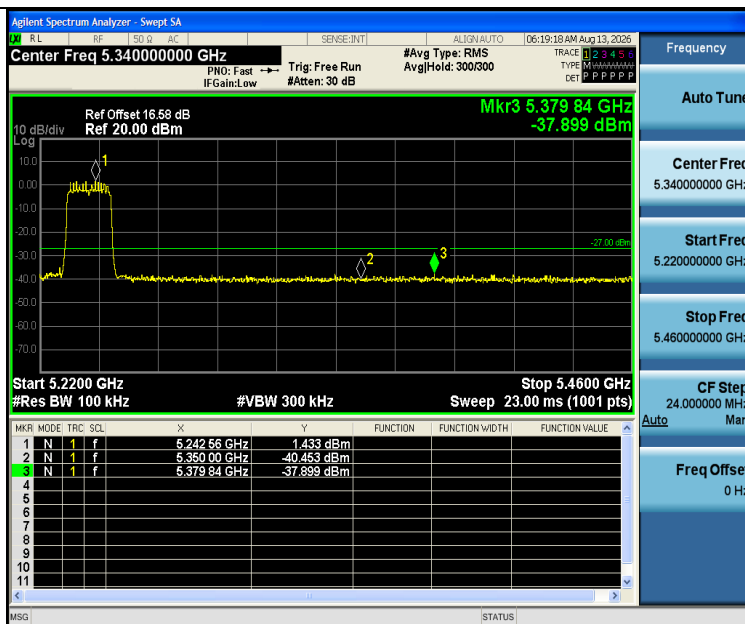




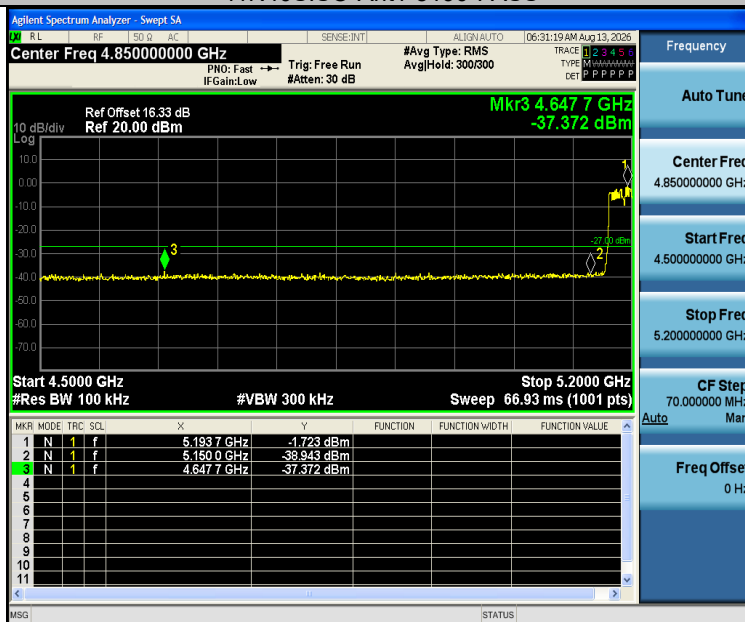
11N20SISO-Ant1-5180-PASS



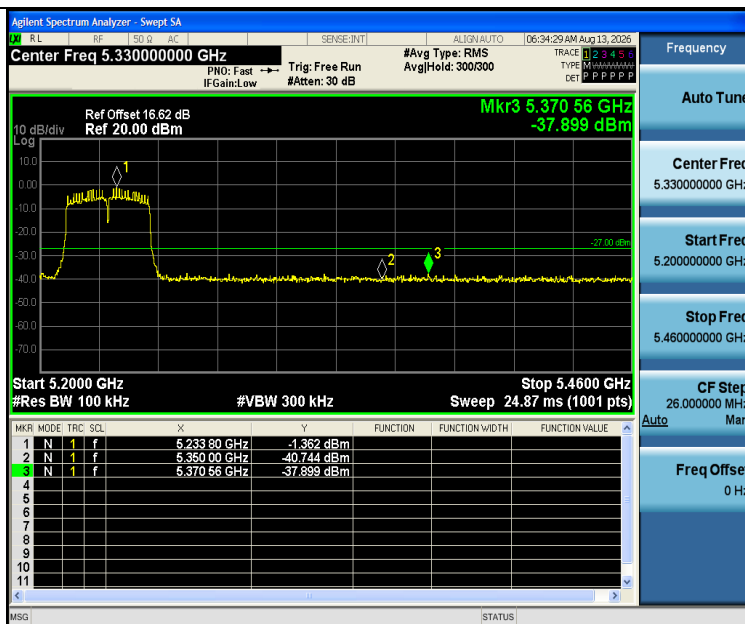
11N20SISO-Ant1-5240-PASS



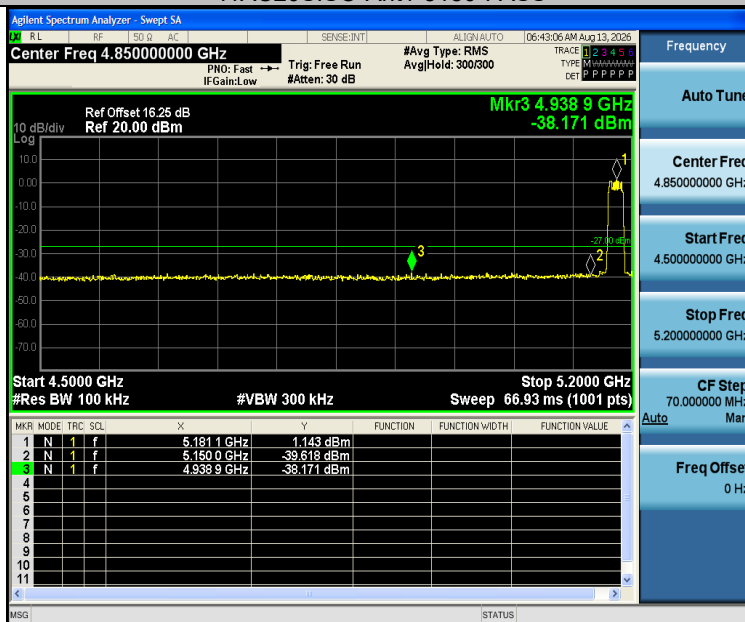
11N40SISO-Ant1-5190-PASS



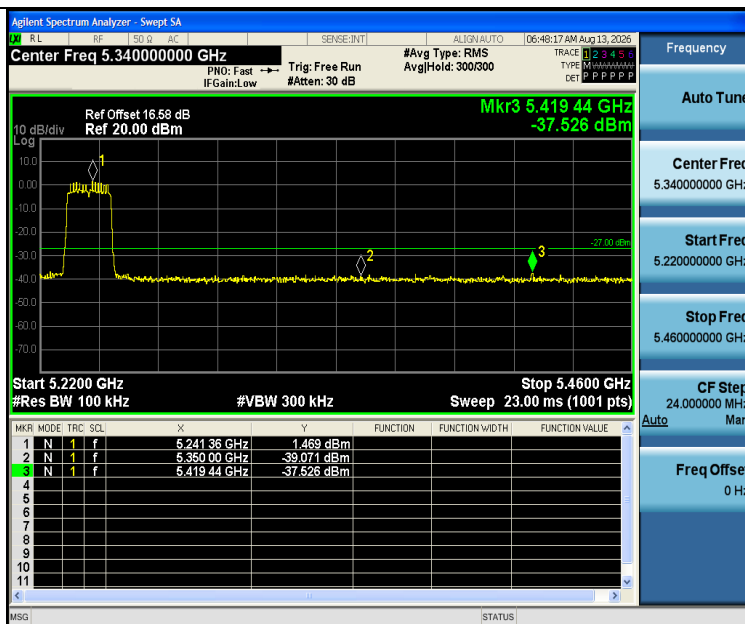
11N40SISO-Ant1-5230-PASS



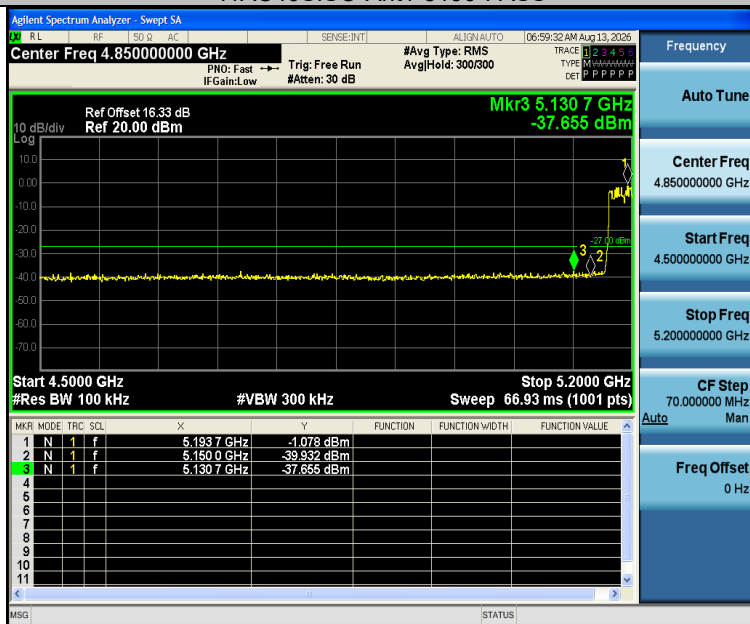
11AC20SISO-Ant1-5180-PASS



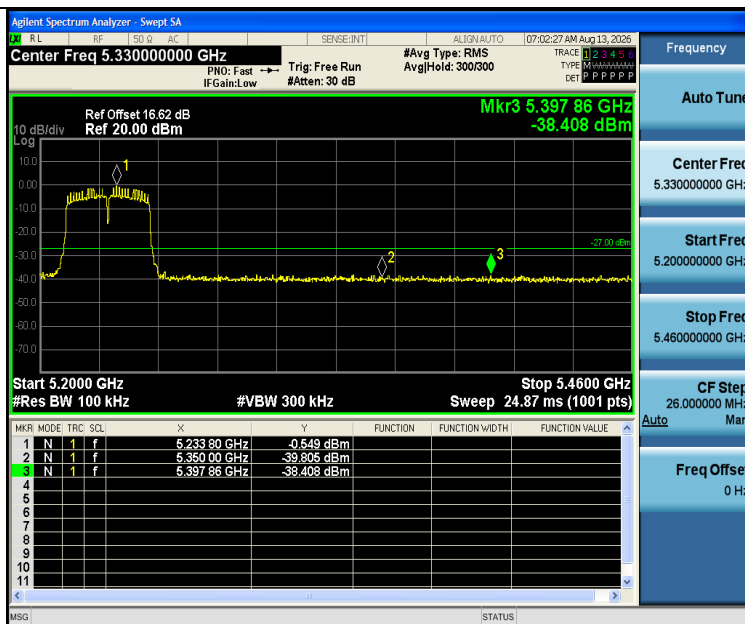
11AC20SISO-Ant1-5240-PASS



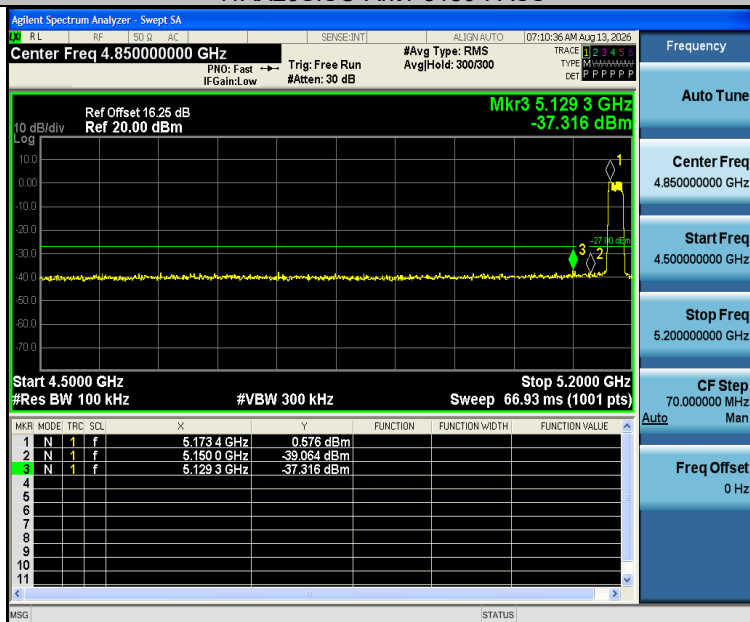
11AC40SISO-Ant1-5190-PASS



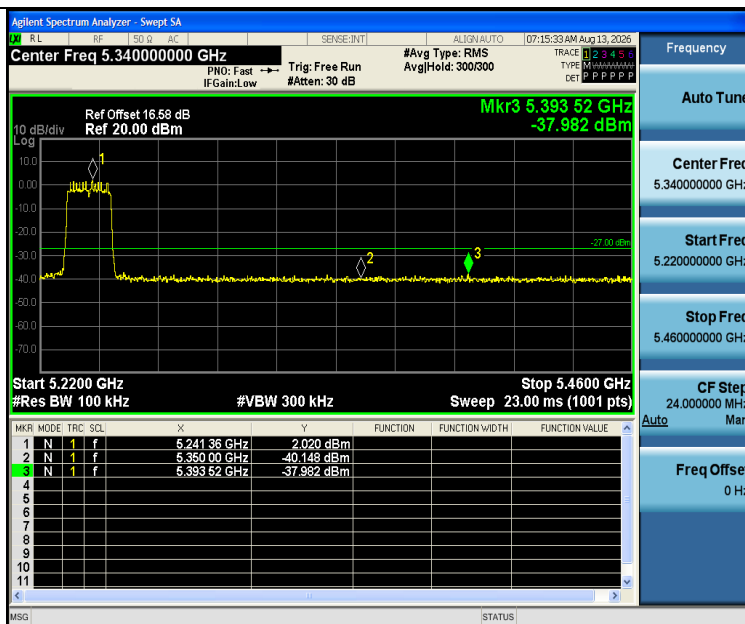
11AC40SISO-Ant1-5230-PASS



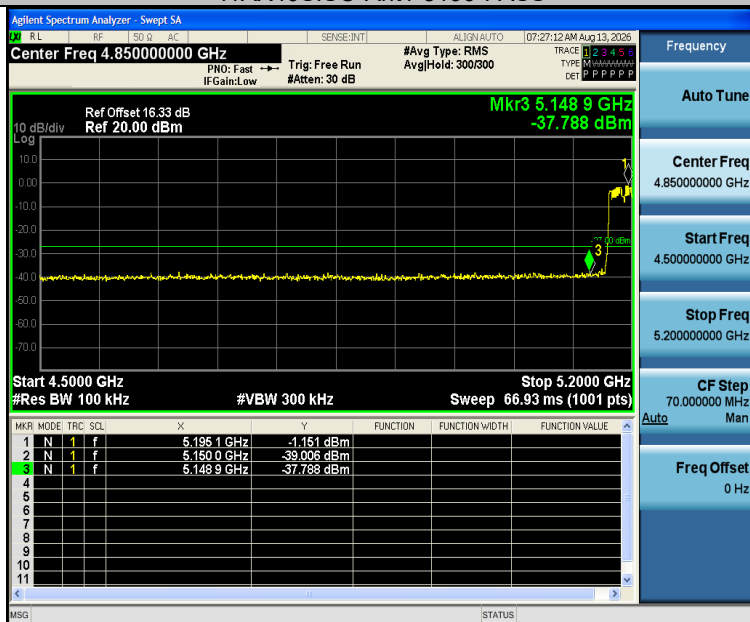
11AX20SISO-Ant1-5180-PASS



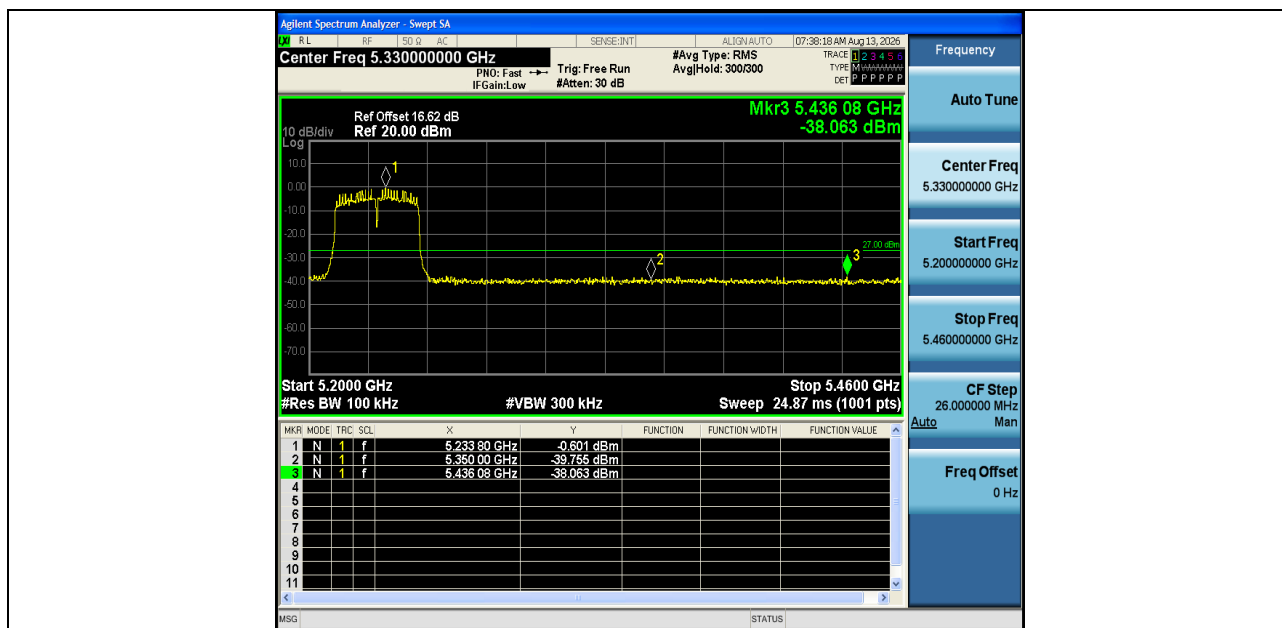
11AX20SISO-Ant1-5240-PASS



11AX40SISO-Ant1-5190-PASS



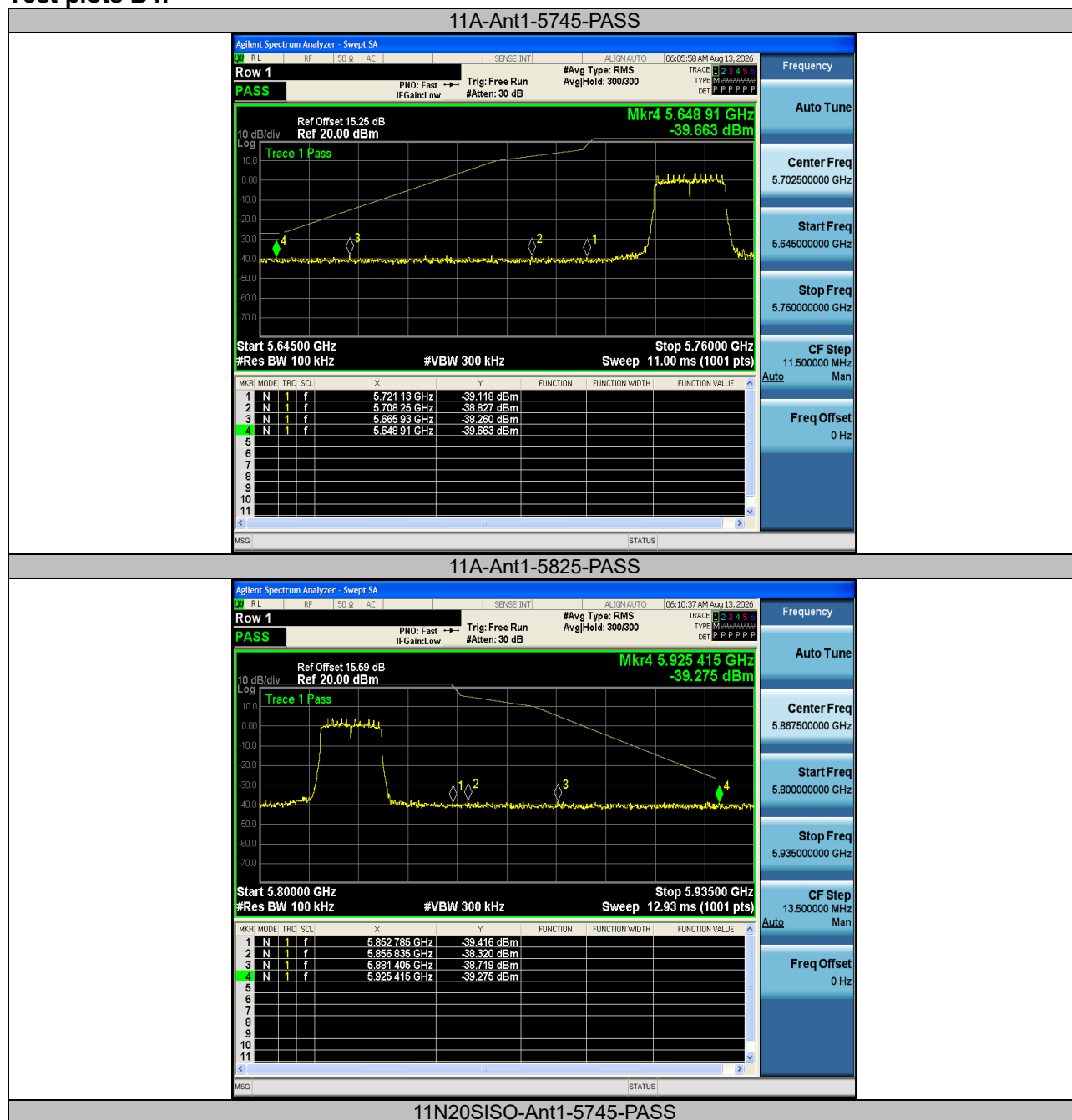
11AX40SISO-Ant1-5230-PASS

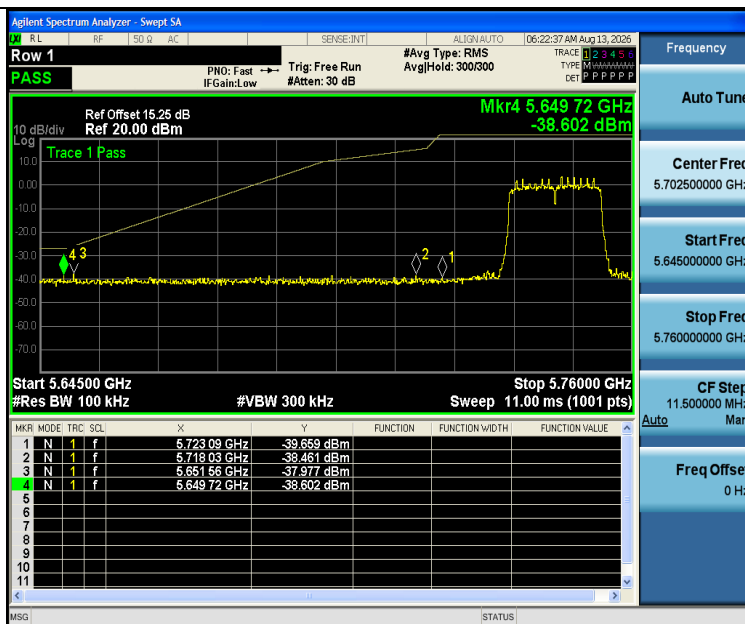


Note: 27~40GHz at least have 20dB margin. No recording in the test report.



Test plots B4:





11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



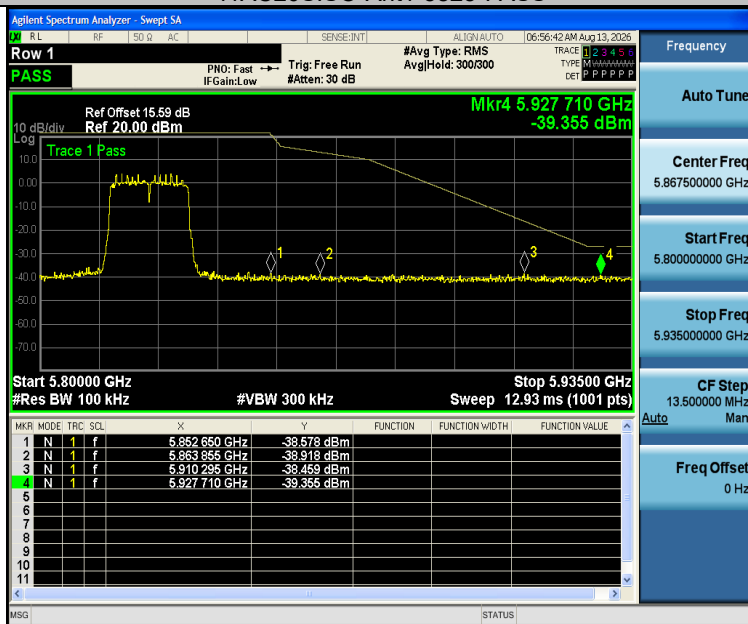
11N40SISO-Ant1-5795-PASS



11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5825-PASS



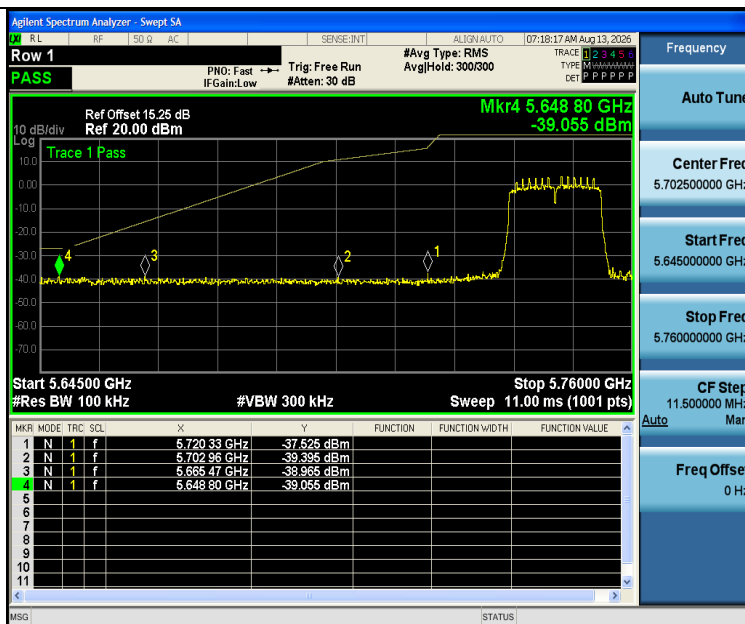
11AC40SISO-Ant1-5755-PASS



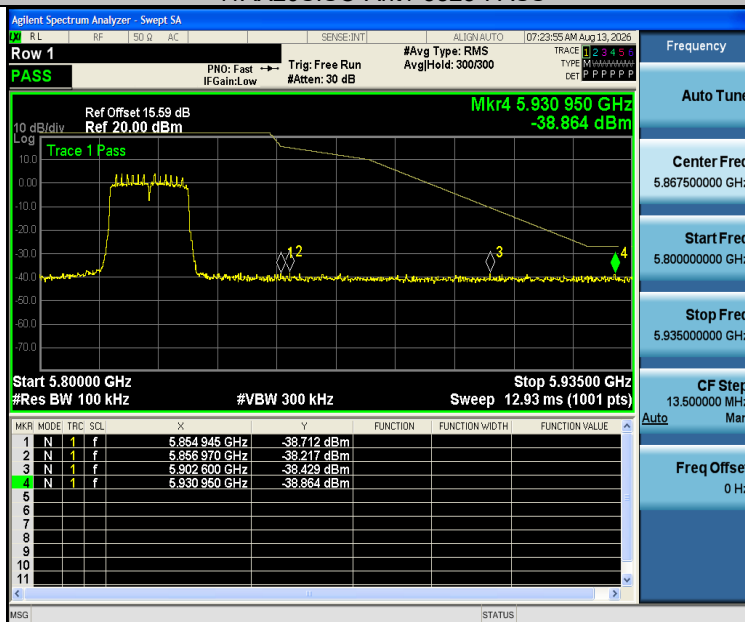
11AC40SISO-Ant1-5795-PASS



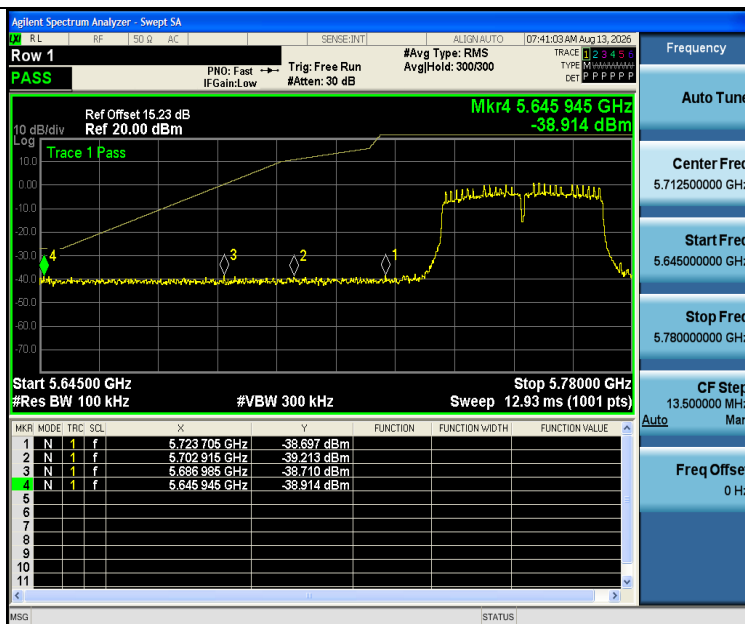
11AX20SISO-Ant1-5745-PASS



11AX20SISO-Ant1-5825-PASS



11AX40SISO-Ant1-5755-PASS



11AX40SISO-Ant1-5795-PASS





6.7 Restricted Band

Test Requirement : FCC Part15 E Section 15.407(b)

Test site : Measurement Distance: 3m

Test Limit :

Frequency	Limit (dBuV/m @3m)	Remark
Above 1GHz	74	Peak Value
	54	Average Value

Test Procedure:

1. The EUT was placed on a styrofoam table which is 1.5m above ground plane.
2. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions. The spectrum was investigated from the lowest radio frequency signal generated in the device, without going below 9 kHz, up to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are tested under 3-axes(X,Y,Z) position(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand), After pre-test, It was found that the worse radiation emission was get at the X position. So the data shown was the X position only.
8. The test above 1GHz must be use the fully anechoic room, and the test below 1GHz use the half anechoic room

Test Result:

Worst case mode:		802.11a(6Mbps)		Test channel:		36		
NO.	Freq. [MHz]	level [dBμV/m]	Factor [dB]	Emission level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity	Detector Type
1	5150	50.85	6.53	57.38	68.23	10.85	H	Peak
2	5150	39.72	6.53	46.25	54	7.75	H	Average
3	5150	49.35	6.53	55.88	68.23	12.35	V	Peak
4	5150	38.39	6.53	44.92	54	9.08	V	Average