

MEASUREMENT REPORT

FCC PART 15 Subpart E WLAN 802.11a/n/ac/ax

Report No.: S20221129093609

Issue Date: 04-20-2023

Applicant: SBOT Technologies LLC
Address: 230 W 39th St, 8th FL, New York United States 10018
FCC ID: 2A3Q4-CA03AN
Product: Caper Cart M3 Android board
Model No.: PCBA-CAP-CA03AN-RK39
FCC Classification: Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s): Part 15 Subpart E (Section 15.407)
Test Procedure(s): ANSI C63.10-2013, KDB 789033 D02v02r01,
KDB 662911 D01v02r01
Item Receipt date: Feb 08, 2023
Test Date: Feb 22 ~ Feb 23, 2023

Compiled By

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Senior Test Engineer

Approved By

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The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in KDB 789033 D02v02r01. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of Fangguang Inspection & Testing Co., Ltd. Wuxi Branch

The test report must not be used by the client to claim product certifications, approval, or endorsement by NVLAP, NIST or any agency of U.S. Government.

Revision History

Report No.	Version	Description	Issue Date
S20221129093609	Rev. 01	/	04-20-2023

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§2.1033 General Information

Applicant:	SBOT Technologies LLC
Applicant Address:	230 W 39th St, 8th FL, New York United States 10018
Manufacturer:	SBOT Technologies LLC
Manufacturer Address:	230 W 39th St, 8th FL, New York United States 10018
Factory:	SBOT Technologies LLC
Factory Address:	230 W 39th St, 8th FL, New York United States 10018
Test Site:	Fangguang Inspection & Testing Co., Ltd.
LAB ID:	CN5037
Test Site Address:	G9 Building, China Sensor Network International Innovation Park No.200, Linghu Avenue Wuxi, Jiangsu 214000 China
FCC Rule Part(s):	Part 15 Subpart C (15.247)
FCC ID:	2A3Q4-CA03AN
Test Device Serial No.:	S/N.: CAM3ANDV02.01.01.000089YX23300104 ☐ Production ☒ Pre-Production ☐ Engineering
FCC Classification:	Unlicensed National Information Infrastructure (UNII)

1. INTRODUCTION

1.1. Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2. Fangguang Test Location

These measurement tests were performed at the Fangguang Inspection and testing Co.,LTD located at 200 Linghu Avenue, Xinwu District, Wuxi City. The detailed description of the measurement facility was found to be in compliance with the requirements of ANSI C63.4-2014.

2. PRODUCT INFORMATION

2.1. Equipment Description

Product Name:	Caper Cart M3 Android board
Model No.:	PCBA-CAP-CA03AN-RK39
Trade Mark:	/
Input Voltage Range:	DC 24V
Wi-Fi Specification:	802.11a/n-HT20/n-HT40/ac-VHT20/ac-VHT40/ac-VHT80/ax-HE20/ ax-HE40/ax-HE80

2.2. Product Specification Subjective to this Report

Frequency Range:	For 802.11a/n-HT20/ac-VHT20/ax-HE20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40/ac-VHT40/ax-HE40: 5190~5230MHz, 5755~5795MHz For 802.11ac-VHT80/ax-HE80: 5210MHz, 5775MHz
Type of Modulation:	802.11a/n/ac/ax:CCK/OFDM/BPSK/QPSK/DBPSK/DQPSK/16QAM/64QAM /256QAM/1024QAM
Data Rate:	802.11a: 6/9/12/18/24/36/48/54Mbps 802.11n: up to 150Mbps 802.11ac: up to 433.3Mbps 802.11ax: up to 600Mbps
Antenna Type:	FPC Antenna
Antenna Gain:	Ant1:4.48dBi Ant2:6.15dBi

2.3. Operation Frequencies and Channel List

802.11a/n-HT20/ac-VHT20/ax-HE20

Channel	Frequency	Channel	Frequency	Channel	Frequency
36	5180 MHz	40	5200 MHz	44	5220 MHz
48	5240 MHz	149	5745 MHz	153	5765 MHz
157	5785 MHz	161	5805 MHz	165	5825 MHz

802.11n-HT40/ac-VHT40/ax-HE40

Channel	Frequency	Channel	Frequency	Channel	Frequency
38	5190 MHz	46	5230 MHz	151	5755 MHz
159	5795 MHz	--	--	--	--

802.11ac-VHT80/ax-HE80

Channel	Frequency	Channel	Frequency	Channel	Frequency
42	5210 MHz	155	5775 MHz	--	--

2.4. Description of Available Antennas

Antenna	Frequency Band (GHz)	Product Number	Tx Paths
FPC Antenna	2.4&5	WIFI0-V0.1-1025 YFT WIFI1-V0.1-0707 YFT	2

Antenna	Frequency Band (MHz)	Tx Paths	Per Chain Max Antenna Gain (dBi)		Beam Forming Directional Gain (dBi)	CDD Directional Gain (dBi)
			Ant 0	Ant 1		
Ant 0: WIFI0-V0.1-1025 YFT	2412 ~ 2462	2	6.22	3.61	Nonsupport	8.02
Ant 1: WIFI1-V0.1-0707 YFT	5150 ~ 5250 5725 ~ 5850	2	4.48	6.15	Nonsupport	8.37

Note:

Unequal Antenna gains, with equal transmit powers. For Antenna gains given by $G_1, G_2, \dots, G_N$ dBi transmit signals are correlated, then

- Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]
- Directional Gain(2.4G) = $10 \cdot \log[(10^{6.22/20} + 10^{3.61/20})^2 / 2] = 8.02$ dBi
- Directional Gain(5G) = $10 \cdot \log[(10^{4.48/20} + 10^{6.15/20})^2 / 2] = 8.37$ dBi

2.5. Device Capabilities

This device contains the following capabilities:

2.4GHz WLAN (DTS)&5GHz WLAN (UNII)&Bluetooth (5.0)

Note: 5GHz (NII) operation is possible in 20MHz, 40MHz and 80MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 8MHz, and detector = average per the guidance of Section B)2)b) of KDB 789033 D02v02r01. The RBW and VBW were both greater than $50/T$, where T is the minimum transmission duration, and the number of sweep points across T was greater than 100. The duty cycles are as follows:

Test Mode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor
11A	Ant1	5180	1.40	1.49	0.9396	93.96	0.27
	Ant2	5180	1.39	1.49	0.9329	93.29	0.30

	Ant1	5200	1.40	1.50	0.9333	93.33	0.30
	Ant2	5200	1.40	1.49	0.9396	93.96	0.27
	Ant1	5240	1.40	1.50	0.9333	93.33	0.30
	Ant2	5240	1.39	1.49	0.9329	93.29	0.30
	Ant1	5745	1.40	1.50	0.9333	93.33	0.30
	Ant2	5745	1.39	1.49	0.9329	93.29	0.30
	Ant1	5785	1.40	1.50	0.9333	93.33	0.30
	Ant2	5785	1.40	1.50	0.9333	93.33	0.30
	Ant1	5825	1.39	1.49	0.9329	93.29	0.30
	Ant2	5825	1.40	1.50	0.9333	93.33	0.30
11N20SISO	Ant1	5180	1.30	1.40	0.9286	92.86	0.32
	Ant2	5180	1.31	1.41	0.9291	92.91	0.32
	Ant1	5200	1.31	1.40	0.9357	93.57	0.29
	Ant2	5200	1.31	1.41	0.9291	92.91	0.32
	Ant1	5240	1.31	1.41	0.9291	92.91	0.32
	Ant2	5240	1.31	1.41	0.9291	92.91	0.32
	Ant1	5745	1.31	1.41	0.9291	92.91	0.32
	Ant2	5745	1.31	1.40	0.9357	93.57	0.29
	Ant1	5785	1.31	1.41	0.9291	92.91	0.32
	Ant2	5785	1.31	1.41	0.9291	92.91	0.32
	Ant1	5825	1.31	1.41	0.9291	92.91	0.32
	Ant2	5825	1.30	1.40	0.9286	92.86	0.32
11N40SISO	Ant1	5190	0.65	0.75	0.8667	86.67	0.62
	Ant2	5190	0.65	0.75	0.8667	86.67	0.62
	Ant1	5230	0.65	0.75	0.8667	86.67	0.62
	Ant2	5230	0.64	0.74	0.8649	86.49	0.63
	Ant1	5755	0.64	0.74	0.8649	86.49	0.63
	Ant2	5755	0.65	0.75	0.8667	86.67	0.62
	Ant1	5795	0.65	0.75	0.8667	86.67	0.62
	Ant2	5795	0.65	0.75	0.8667	86.67	0.62
11AC20SISO	Ant1	5180	1.32	1.41	0.9362	93.62	0.29
	Ant2	5180	1.31	1.41	0.9291	92.91	0.32
	Ant1	5200	1.31	1.41	0.9291	92.91	0.32
	Ant2	5200	1.31	1.41	0.9291	92.91	0.32
	Ant1	5240	1.32	1.42	0.9296	92.96	0.32
	Ant2	5240	1.31	1.41	0.9291	92.91	0.32
	Ant1	5745	1.31	1.41	0.9291	92.91	0.32

	Ant2	5745	1.32	1.42	0.9296	92.96	0.32
	Ant1	5785	1.31	1.41	0.9291	92.91	0.32
	Ant2	5785	1.32	1.42	0.9296	92.96	0.32
	Ant1	5825	1.32	1.41	0.9362	93.62	0.29
	Ant2	5825	1.32	1.42	0.9296	92.96	0.32
11AC40SISO	Ant1	5190	0.66	0.76	0.8684	86.84	0.61
	Ant2	5190	0.65	0.75	0.8667	86.67	0.62
	Ant1	5230	0.65	0.75	0.8667	86.67	0.62
	Ant2	5230	0.65	0.75	0.8667	86.67	0.62
	Ant1	5755	0.66	0.76	0.8684	86.84	0.61
	Ant2	5755	0.66	0.76	0.8684	86.84	0.61
	Ant1	5795	0.66	0.76	0.8684	86.84	0.61
	Ant2	5795	0.66	0.76	0.8684	86.84	0.61
11AC80SISO	Ant1	5210	0.32	0.42	0.7619	76.19	1.18
	Ant2	5210	0.33	0.43	0.7674	76.74	1.15
	Ant1	5775	0.32	0.42	0.7619	76.19	1.18
	Ant2	5775	0.33	0.43	0.7674	76.74	1.15
11AX20SISO	Ant1	5180	1.31	1.41	0.9291	92.91	0.32
	Ant2	5180	1.02	1.12	0.9107	91.07	0.41
	Ant1	5200	1.31	1.41	0.9291	92.91	0.32
	Ant2	5200	1.02	1.12	0.9107	91.07	0.41
	Ant1	5240	1.32	1.42	0.9296	92.96	0.32
	Ant2	5240	1.02	1.12	0.9107	91.07	0.41
	Ant1	5745	1.31	1.41	0.9291	92.91	0.32
	Ant2	5745	1.02	1.12	0.9107	91.07	0.41
	Ant1	5785	1.31	1.41	0.9291	92.91	0.32
	Ant2	5785	1.02	1.12	0.9107	91.07	0.41
	Ant1	5825	1.31	1.41	0.9291	92.91	0.32
	Ant2	5825	1.02	1.12	0.9107	91.07	0.41
11AX40SISO	Ant1	5190	0.55	0.65	0.8462	84.62	0.73
	Ant2	5190	0.54	0.64	0.8438	84.38	0.74
	Ant1	5230	0.54	0.64	0.8438	84.38	0.74
	Ant2	5230	0.54	0.64	0.8438	84.38	0.74
	Ant1	5755	0.54	0.64	0.8438	84.38	0.74
	Ant2	5755	0.55	0.65	0.8462	84.62	0.73
	Ant1	5795	0.54	0.64	0.8438	84.38	0.74
	Ant2	5795	0.54	0.64	0.8438	84.38	0.74

11AX80SISO	Ant1	5210	0.29	0.39	0.7436	74.36	1.29
	Ant2	5210	0.29	0.39	0.7436	74.36	1.29
	Ant1	5775	0.29	0.39	0.7436	74.36	1.29
	Ant2	5775	0.29	0.40	0.7250	72.50	1.40
11N20CDD	Ant1	5180	1.30	1.40	0.9286	92.86	0.32
	Ant2	5180	1.31	1.41	0.9291	92.91	0.32
	Ant1	5200	1.30	1.40	0.9286	92.86	0.32
	Ant2	5200	1.30	1.40	0.9286	92.86	0.32
	Ant1	5240	1.31	1.41	0.9291	92.91	0.32
	Ant2	5240	1.31	1.40	0.9357	93.57	0.29
	Ant1	5745	1.31	1.41	0.9291	92.91	0.32
	Ant2	5745	1.31	1.41	0.9291	92.91	0.32
	Ant1	5785	1.31	1.41	0.9291	92.91	0.32
	Ant2	5785	1.31	1.41	0.9291	92.91	0.32
	Ant1	5825	1.30	1.40	0.9286	92.86	0.32
	Ant2	5825	1.31	1.41	0.9291	92.91	0.32
11N40CDD	Ant1	5190	0.65	0.75	0.8667	86.67	0.62
	Ant2	5190	0.65	0.75	0.8667	86.67	0.62
	Ant1	5230	0.64	0.74	0.8649	86.49	0.63
	Ant2	5230	0.65	0.75	0.8667	86.67	0.62
	Ant1	5755	0.65	0.75	0.8667	86.67	0.62
	Ant2	5755	0.64	0.74	0.8649	86.49	0.63
	Ant1	5795	0.65	0.75	0.8667	86.67	0.62
	Ant2	5795	0.65	0.75	0.8667	86.67	0.62
11AC20CDD	Ant1	5180	1.32	1.42	0.9296	92.96	0.32
	Ant2	5180	1.32	1.42	0.9296	92.96	0.32
	Ant1	5200	1.32	1.42	0.9296	92.96	0.32
	Ant2	5200	1.32	1.42	0.9296	92.96	0.32
	Ant1	5240	1.31	1.41	0.9291	92.91	0.32
	Ant2	5240	1.32	1.42	0.9296	92.96	0.32
	Ant1	5745	1.32	1.42	0.9296	92.96	0.32
	Ant2	5745	1.31	1.41	0.9291	92.91	0.32
	Ant1	5785	1.31	1.41	0.9291	92.91	0.32
	Ant2	5785	1.31	1.41	0.9291	92.91	0.32
	Ant1	5825	1.32	1.42	0.9296	92.96	0.32
	Ant2	5825	1.31	1.41	0.9291	92.91	0.32
11AC40CDD	Ant1	5190	0.65	0.75	0.8667	86.67	0.62

	Ant2	5190	0.65	0.75	0.8667	86.67	0.62
	Ant1	5230	0.65	0.75	0.8667	86.67	0.62
	Ant2	5230	0.66	0.76	0.8684	86.84	0.61
	Ant1	5755	0.65	0.75	0.8667	86.67	0.62
	Ant2	5755	0.65	0.75	0.8667	86.67	0.62
	Ant1	5795	0.66	0.76	0.8684	86.84	0.61
	Ant2	5795	0.66	0.76	0.8684	86.84	0.61
11AC80CDD	Ant1	5210	0.33	0.43	0.7674	76.74	1.15
	Ant2	5210	0.32	0.42	0.7619	76.19	1.18
	Ant1	5775	0.32	0.52	0.6154	61.54	2.11
	Ant2	5775	0.33	0.43	0.7674	76.74	1.15
11AX20CDD	Ant1	5180	1.02	1.12	0.9107	91.07	0.41
	Ant2	5180	1.02	1.12	0.9107	91.07	0.41
	Ant1	5200	1.02	1.12	0.9107	91.07	0.41
	Ant2	5200	1.03	1.12	0.9196	91.96	0.36
	Ant1	5240	1.02	1.12	0.9107	91.07	0.41
	Ant2	5240	1.02	1.12	0.9107	91.07	0.41
	Ant1	5745	1.02	1.12	0.9107	91.07	0.41
	Ant2	5745	1.03	1.36	0.7574	75.74	1.21
	Ant1	5785	1.02	1.12	0.9107	91.07	0.41
	Ant2	5785	1.02	1.35	0.7556	75.56	1.22
	Ant1	5825	1.03	1.36	0.7574	75.74	1.21
	Ant2	5825	1.02	1.35	0.7556	75.56	1.22
11AX40CDD	Ant1	5190	0.54	0.64	0.8438	84.38	0.74
	Ant2	5190	0.54	0.64	0.8438	84.38	0.74
	Ant1	5230	0.54	0.64	0.8438	84.38	0.74
	Ant2	5230	0.54	0.64	0.8438	84.38	0.74
	Ant1	5755	0.54	0.72	0.7500	75.00	1.25
	Ant2	5755	0.54	0.64	0.8438	84.38	0.74
	Ant1	5795	0.55	0.65	0.8462	84.62	0.73
	Ant2	5795	0.54	0.73	0.7397	73.97	1.31
11AX80CDD	Ant1	5210	0.29	0.39	0.7436	74.36	1.29
	Ant2	5210	0.29	0.39	0.7436	74.36	1.29
	Ant1	5775	0.29	0.49	0.5918	59.18	2.28
	Ant2	5775	0.29	0.39	0.7436	74.36	1.29

Test Graphs see Appendix D.

2.6. Test Software

The test utility software used during testing was “wl tool”, Power Parameter Value:

Test Mode	ANT1	ANT2	CDD
A	17	15	12
N	17	15	12
AC	17	15	12
AX	17	15	12

2.7. Test Mode

Test Mode	Mode 1: Transmit by 802.11a Ant 1
	Mode 2: Transmit by 802.11n-HT20 Ant 1
	Mode 3: Transmit by 802.11n-HT40 Ant 1
	Mode 4: Transmit by 802.11ac-VHT20 Ant 1
	Mode 5: Transmit by 802.11ac-VHT40 Ant 1
	Mode 6: Transmit by 802.11ac-VHT80 Ant 1
	Mode 7: Transmit by 802.11ax-HE20 Ant 1
	Mode 8: Transmit by 802.11ax-HE40 Ant 1
	Mode 9: Transmit by 802.11ax-HE80 Ant 1
	Mode 10: Transmit by 802.11a Ant 2
	Mode 11: Transmit by 802.11n-HT20 Ant 2
	Mode 12: Transmit by 802.11n-HT40 Ant 2
	Mode 13: Transmit by 802.11ac-VHT20 Ant 2
	Mode 14: Transmit by 802.11ac-VHT40 Ant 2
	Mode 15: Transmit by 802.11ac-VHT80 Ant 2
	Mode 16: Transmit by 802.11ax-HE20 Ant 2
	Mode 17: Transmit by 802.11ax-HE40 Ant 2
	Mode 18: Transmit by 802.11ax-HE80 Ant 2
	Mode 10: Transmit by 802.11n-HT20 CDD
	Mode 20: Transmit by 802.11n-HT40 CDD
	Mode 21: Transmit by 802.11ac-VHT20 CDD
	Mode 22: Transmit by 802.11ac-VHT40 CDD
	Mode 23: Transmit by 802.11ac-VHT80 CDD
	Mode 24: Transmit by 802.11ax-HE20 CDD
	Mode 25: Transmit by 802.11ax-HE40 CDD
	Mode 26: Transmit by 802.11ax-HE80 CDD

For 802.11ax mode, the min. RU and max. RU are measured, only records the worst case: max. RU.

2.8. Test Configuration

The EUT was tested per the guidance of KDB 789033 D02v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing and AC line conducted testing.

2.9. EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

2.10. Labeling Requirements

Per 2.1074 & 15.19; Docket 95-19

The label shall be permanently affixed at a conspicuous location on the device; instruction manual or pamphlet supplied to the user and be readily visible to the purchaser at the time of purchase.

However, when the device is so small wherein placement of the label with specified statement is not practical, only the FCC ID must be displayed on the device per Section 15.19(a)(5). Please see attachment for FCC ID label and label location.

RSP-100 Issue 11 Section 3

The manufacturer, importer or distributor shall meet the labelling requirements set out in this section for every unit:

- (i) prior to marketing in Canada, for products manufactured in Canada
- (ii) prior to importation into Canada, for imported products

For information regarding the e-labelling option, see Notice 2014-DRS1003. The label for the certified product represents the manufacturer's or importer's compliance with Innovation, Science and Economic Development Canada's (ISED) regulatory requirements.

Please see attachment for IC label and label location.

3. DESCRIPTION OF TEST

3.1. Evaluation Procedure

The measurement procedures described in the American National Standard for Testing Unlicensed Wireless Devices (ANSI C63.10-2013), and the guidance provided in KDB 789033 D02v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2. AC Line Conducted Emissions

The line-conducted facility is located inside a 9'x4'x3' shielded enclosure. A 1m x 2m wooden table 80cm high is placed 40cm away from the vertical wall and 80cm away from the sidewall of the shielded room. Two 10kHz-30MHz, 50Ω/50uH Line-Impedance Stabilization Networks (LISNs) are bonded to the shielded room floor. Power to the LISNs is filtered by external high-current high-insertion loss power line filters. These filters attenuate ambient signal noise from entering the measurement lines. These filters are also bonded to the shielded enclosure.

The EUT is powered from one LISN and the support equipment is powered from the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground-plane. Power cables for support equipment were routed down to the second LISN while ensuring that that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the receiver and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The receiver was scanned from 150kHz to 30MHz. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 9kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying: power lines, the mode of operation or data exchange speed, or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration/arrangement and mode of operation that produced these emissions are used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

An extension cord was used to connect to a single LISN which powered by EUT. The extension cord was calibrated with LISN, the impedance and insertion loss are compliance with the requirements as stated in ANSI C63.10-2013.

Line conducted emissions test results are shown in Section 7.11.

3.3. Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An MF Model 210SS turntable is used for radiated measurement. It is a continuously rotatable, remote controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm high PVC support structure is placed on top of the turntable.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. For frequencies below 30MHz, a calibrated loop antenna was used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up for frequencies below 1GHz was placed on top of the 0.8 meter high, 1 x 1.5 meter table; and test set-up for frequencies 1-40GHz was placed on top of the 1.5 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions. According to 3dB Beam-Width of horn antenna, the horn antenna should be always directed to the EUT when rising height.

4. ANTENNA REQUIREMENTS

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.”

- Use a unique coupling to the intentional radiator.

5. TEST EQUIPMENT CALIBRATION DATE

Radiated Emission

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
Loop Antenna	Schwarzbeck	FMZB 1519B	FWXGJC-2018-015	3 year	2024/08/13
Bi-Log Antenna	R&S	HL562E	FWXGJC-2016-267-06	3 year	2023/03/30
Broadband Horn Antenna	R&S	HF907	FWXGJC-2016-267-07	1 year	2023/03/12
Broadband Horn Antenna	Schwarzbeck	BBHA9170	FWXGJC-2018-016	3 year	2024/06/04
EMI Receiver	R&S	ESR26	FWXGJC-2016-267-01	1 year	2023/11/08
Pre-Amplifier	R&S	SCU-18D	FWXGJC-2016-267-05	1 year	2023/11/17
Pre-Amplifier	R&S	EMC184055 SE	FWXGJC-2018-018	3 year	2025/04/13
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-386	1 year	2023/11/21
Anechoic Chamber	Aimuke	EMCCT-3	FWXGJC-2016-270	1 year	2023/04/07

Conducted Test Equipment

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
EXA Signal Analyzer	Keysight	N9010B	FWXGJC-2018-010	1 year	2023/04/13
RF Control Unit	Toncend	JS0806-2	FWXGJC-2018-013	1 year	2023/06/30
Thermohygrometer	Yuhuaze	HTC-1	FWXDA-2016-385	1 year	2023/11/21

Test Software	Manufacturer	Version	Asset No.	Function
EMI Test Software	tonscend	/	/	/

6. MEASUREMENT UNCERTAINTY

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 2.05dB
Radiated Emission Measurement
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 3.06dB 1GHz-12.75GHz: 4.13dB
Spurious Emissions, Conducted
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 30MHz-1GHz: 1.00 dB 1GHz-26.5GHz: 1.30 dB
Output Power
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.60dB
Power Spectrum Density
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.80dB
Occupied Bandwidth
Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 0.20MHz

7. TEST RESULT

7.1. Summary

FCC Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(a)	26dB Bandwidth	N/A	Conducted	Pass	Section 6.2
15.407(e)	6dB Bandwidth	$\geq 500\text{kHz}$		Pass	Section 6.3
15.407(a)(1)(iv), (2), (3)	Maximum Conducted Output Power	$\leq 24\text{ dBm U-NII-1 \& U-NII-2}$ $\leq 30\text{ dBm U-NII-3}$		Pass	Section 6.4
15.407(h)(1)	Transmit Power Control	$\leq 24\text{ dBm}$		Pass	Section 6.5
15.407(a)(1)(iv), (2), (3), (5)	Peak Power Spectral Density	$\leq 11\text{ dBm/MHz U-NII-1 \& U-NII-2}$ $\leq 30\text{ dBm/500kHz U-NII-3}$		Pass	Section 6.6
15.407(g)	Frequency Stability	N/A		Pass	Section 6.7
15.407(b)(1), (2), (3), (4)(i)	Undesirable Emissions	$\leq -27\text{dBm/MHz EIRP}$ Detail see section 7.9	Radiated	Pass	Section 6.8 & 6.9
15.205, 15.209 15.407(b)(5), (6), (7)	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209		Pass	
15.207	AC Conducted Emissions 150kHz - 30MHz	< FCC 15.207 limits	Line Conducted	Pass	Section 6.10

RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
RSS-247 §6.2	99% Bandwidth	N/A	Conducted	Pass	Section 6.2
RSS-247 §6.2.4	6dB Bandwidth	≥ 500kHz		Pass	Section 6.3
RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	Max Conducted Output Power	5250~5250, 5470~5725MHz ≤ 250 mW or 11 + 10 log ₁₀ (99% B) 5725~5850MHz, ≤ 30 dBm		Pass	Section 6.4
	Maximum E.I.R.P	5150~5250MHz ≤ 23 dBm or 10 + 10 log ₁₀ (99% B) 5250~5250, 5470~5725MHz ≤ 30 dBm or 17 + 10 log ₁₀ (99% B)			
RSS-247 §6.2.2, §6.2.3	Transmit Power Control	≤ 24 dBm		Pass	Section 6.5
RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	Peak Power Spectral Density	5150~5250MHz ≤ 10 dBm/MHz 5250~5250, 5470~5725MHz ≤ 11 dBm/MHz 5725~5850MHz, ≤ 30 dBm/500kHz		Pass	Section 6.6
RSS-Gen [8.11]	Frequency Stability	N/A		Pass	Section 6.7
RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	Out-of-Band Emissions	Refer to section 6.10	Radiated	Pass	Section 6.8 & 6.9
RSS-247 §6.2.1, §6.2.2, §6.2.3, §6.2.4	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in RSS-Gen [8.9]		Pass	
RSS-Gen [8.8]	AC Conducted Emissions 150kHz - 30MHz	< RSS-Gen [8.8] limits	Line Conducted	Pass	Section 6.10

Notes:

- 1) All channels, modes, and modulations/data rates were investigated among all UNII bands. The test results shown in the following sections represent the worst case emissions.

- 2) The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

7.2. 26dB Bandwidth Measurement and 99% Bandwidth

7.2.1. Test Limit

N/A

7.2.2. Test Procedure used

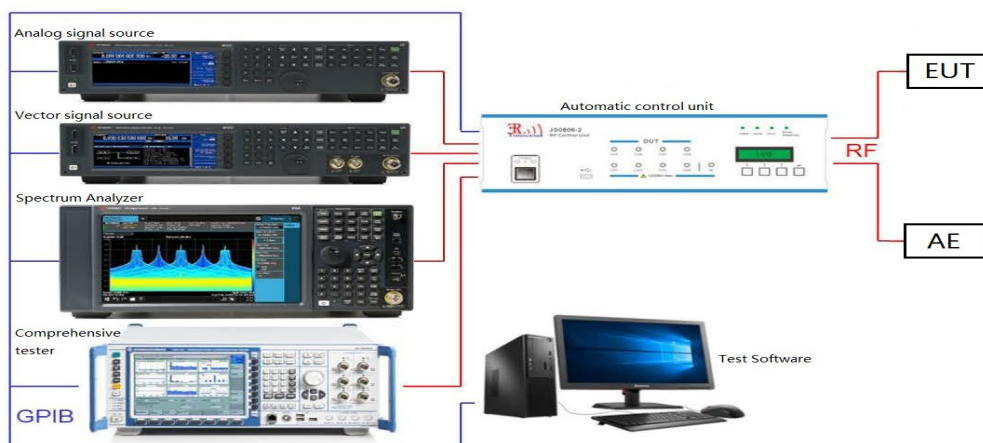
KDB 789033 D02v02r01 – Section C.1

ANSI C63.10-2013 D02v02r01 – Section C

7.2.3. Test Setting

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. VBW $\geq 3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.

7.2.4. Test Setup



7.2.5. Test Result

Test Mode	Antenna	Channel	FL[MHz]	FH[MHz]	26db EBW [MHz]	OCB [MHz]
11A	Ant1	5180	5169.280	5190.560	21.280	17.527
	Ant2	5180	5169.360	5190.520	21.160	17.013
	Ant1	5200	5189.080	5210.360	21.280	17.128
	Ant2	5200	5189.640	5210.800	21.160	17.047
	Ant1	5240	5229.600	5250.400	20.800	17.158
	Ant2	5240	5229.520	5250.560	21.040	17.112
	Ant1	5745	5734.560	5757.720	23.160	17.266
	Ant2	5745	5734.400	5758.320	23.920	17.285
	Ant1	5785	5774.360	5797.160	22.800	17.159
	Ant2	5785	5774.640	5795.840	21.200	17.106
	Ant1	5825	5814.680	5835.400	20.720	17.154
	Ant2	5825	5814.520	5835.400	20.880	17.250
11N20SISO	Ant1	5180	5169.480	5190.480	21.000	18.086
	Ant2	5180	5169.160	5190.640	21.480	18.137
	Ant1	5200	5187.680	5210.920	23.240	18.240
	Ant2	5200	5189.480	5210.680	21.200	18.118
	Ant1	5240	5229.320	5250.560	21.240	18.345
	Ant2	5240	5229.320	5250.600	21.280	18.107
	Ant1	5745	5734.360	5755.720	21.360	18.338
	Ant2	5745	5734.680	5756.200	21.520	18.192
	Ant1	5785	5774.160	5795.400	21.240	18.229
	Ant2	5785	5774.560	5795.800	21.240	18.122
	Ant1	5825	5814.360	5835.480	21.120	18.264
	Ant2	5825	5814.360	5835.640	21.280	18.251
11N40SISO	Ant1	5190	5164.240	5209.760	45.520	36.463
	Ant2	5190	5170.160	5209.920	39.760	36.290
	Ant1	5230	5209.920	5249.360	39.440	36.465
	Ant2	5230	5210.480	5249.600	39.120	36.274
	Ant1	5755	5735.320	5787.240	51.920	36.491
	Ant2	5755	5735.480	5780.520	45.040	36.472
	Ant1	5795	5765.160	5828.200	63.040	36.544
	Ant2	5795	5775.320	5824.520	49.200	36.382
11AC20SISO	Ant1	5180	5167.800	5190.520	22.720	18.185
	Ant2	5180	5169.320	5190.600	21.280	18.183

	Ant1	5200	5189.240	5210.760	21.520	18.393
	Ant2	5200	5189.360	5210.520	21.160	18.132
	Ant1	5240	5229.320	5250.720	21.400	18.298
	Ant2	5240	5229.360	5250.480	21.120	18.183
	Ant1	5745	5734.080	5758.600	24.520	18.231
	Ant2	5745	5734.440	5755.480	21.040	18.205
	Ant1	5785	5774.320	5797.360	23.040	18.283
	Ant2	5785	5774.200	5796.560	22.360	18.159
	Ant1	5825	5814.480	5835.800	21.320	18.198
	Ant2	5825	5814.360	5835.600	21.240	18.276
11AC40SISO	Ant1	5190	5167.120	5216.240	49.120	36.571
	Ant2	5190	5170.080	5210.240	40.160	36.353
	Ant1	5230	5210.320	5249.680	39.360	36.489
	Ant2	5230	5210.000	5250.080	40.080	36.241
	Ant1	5755	5734.600	5791.400	56.800	36.667
	Ant2	5755	5735.640	5780.120	44.480	36.367
	Ant1	5795	5775.320	5823.880	48.560	36.505
	Ant2	5795	5775.160	5826.200	51.040	36.270
11AC80SISO	Ant1	5210	5169.680	5250.640	80.960	75.938
	Ant2	5210	5170.000	5250.000	80.000	75.877
	Ant1	5775	5734.680	5839.480	104.800	76.028
	Ant2	5775	5734.840	5823.960	89.120	75.910
11AX20SISO	Ant1	5180	5169.360	5190.440	21.080	18.199
	Ant2	5180	5169.600	5190.480	20.880	18.999
	Ant1	5200	5188.800	5210.800	22.000	18.219
	Ant2	5200	5189.640	5210.440	20.800	18.908
	Ant1	5240	5229.440	5250.560	21.120	18.217
	Ant2	5240	5229.400	5250.360	20.960	18.970
	Ant1	5745	5733.560	5756.600	23.040	18.482
	Ant2	5745	5734.520	5755.360	20.840	18.971
	Ant1	5785	5774.200	5797.280	23.080	18.385
	Ant2	5785	5774.600	5797.480	22.880	19.025
	Ant1	5825	5814.400	5835.440	21.040	18.251
	Ant2	5825	5814.680	5835.920	21.240	18.975
11AX40SISO	Ant1	5190	5170.240	5212.880	42.640	37.753
	Ant2	5190	5170.240	5209.760	39.520	37.763
	Ant1	5230	5210.080	5261.200	51.120	37.915

	Ant2	5230	5209.840	5250.240	40.400	37.792
	Ant1	5755	5723.560	5794.520	70.960	38.037
	Ant2	5755	5735.160	5786.600	51.440	37.846
	Ant1	5795	5771.720	5833.160	61.440	37.977
	Ant2	5795	5775.160	5825.960	50.800	37.864
11AX80SISO	Ant1	5210	5169.840	5250.480	80.640	77.553
	Ant2	5210	5169.520	5250.640	81.120	77.220
	Ant1	5775	5730.040	5846.680	116.640	77.569
	Ant2	5775	5735.000	5815.640	80.640	77.453
11N20CDD	Ant1	5180	5169.400	5190.560	21.160	18.061
	Ant2	5180	5169.160	5190.680	21.520	18.201
	Ant1	5200	5189.240	5210.800	21.560	18.126
	Ant2	5200	5189.120	5210.720	21.600	18.139
	Ant1	5240	5227.080	5250.680	23.600	18.382
	Ant2	5240	5229.440	5250.480	21.040	18.173
	Ant1	5745	5734.560	5755.680	21.120	18.134
	Ant2	5745	5734.400	5755.520	21.120	18.203
	Ant1	5785	5774.880	5795.200	20.320	17.733
	Ant2	5785	5774.480	5796.040	21.560	18.194
	Ant1	5825	5814.280	5835.760	21.480	18.246
	Ant2	5825	5814.520	5835.360	20.840	18.100
11N40CDD	Ant1	5190	5170.080	5209.840	39.760	36.338
	Ant2	5190	5170.080	5209.840	39.760	36.333
	Ant1	5230	5209.920	5249.600	39.680	36.379
	Ant2	5230	5210.160	5249.760	39.600	36.284
	Ant1	5755	5735.160	5774.680	39.520	36.293
	Ant2	5755	5735.800	5779.480	43.680	36.276
	Ant1	5795	5775.240	5815.240	40.000	36.361
	Ant2	5795	5775.320	5821.880	46.560	36.272
11AC20CDD	Ant1	5180	5168.960	5190.360	21.400	18.205
	Ant2	5180	5169.280	5190.160	20.880	18.119
	Ant1	5200	5189.320	5210.840	21.520	18.276
	Ant2	5200	5189.240	5210.600	21.360	18.148
	Ant1	5240	5229.280	5250.640	21.360	18.327
	Ant2	5240	5229.480	5250.480	21.000	18.198
	Ant1	5745	5734.520	5755.920	21.400	18.255
	Ant2	5745	5734.440	5755.680	21.240	18.217

	Ant1	5785	5774.240	5795.560	21.320	18.258
	Ant2	5785	5774.600	5795.640	21.040	18.118
	Ant1	5825	5814.200	5835.680	21.480	18.206
	Ant2	5825	5814.520	5835.640	21.120	18.180
11AC40CDD	Ant1	5190	5170.000	5210.000	40.000	36.362
	Ant2	5190	5170.320	5209.840	39.520	36.401
	Ant1	5230	5209.760	5250.000	40.240	36.329
	Ant2	5230	5210.560	5249.600	39.040	36.306
	Ant1	5755	5735.320	5782.360	47.040	36.303
	Ant2	5755	5736.440	5773.640	37.200	36.315
	Ant1	5795	5775.400	5816.440	41.040	36.296
	Ant2	5795	5775.240	5822.200	46.960	36.279
11AC80CDD	Ant1	5210	5169.520	5250.480	80.960	75.819
	Ant2	5210	5169.840	5250.160	80.320	75.770
	Ant1	5775	5734.520	5819.320	84.800	75.903
	Ant2	5775	5735.000	5815.320	80.320	75.646
11AX20CDD	Ant1	5180	5169.440	5190.320	20.880	18.932
	Ant2	5180	5169.400	5190.360	20.960	19.021
	Ant1	5200	5189.520	5210.160	20.640	19.028
	Ant2	5200	5189.280	5210.440	21.160	18.979
	Ant1	5240	5229.600	5250.160	20.560	18.950
	Ant2	5240	5229.640	5250.520	20.880	19.000
	Ant1	5745	5734.320	5755.400	21.080	19.008
	Ant2	5745	5734.200	5755.520	21.320	18.967
	Ant1	5785	5774.840	5795.440	20.600	18.977
	Ant2	5785	5774.960	5795.400	20.440	18.946
	Ant1	5825	5814.440	5835.600	21.160	18.942
	Ant2	5825	5814.600	5835.480	20.880	19.019
11AX40CDD	Ant1	5190	5170.320	5209.920	39.600	37.805
	Ant2	5190	5167.280	5209.840	42.560	37.823
	Ant1	5230	5209.920	5250.160	40.240	37.788
	Ant2	5230	5210.000	5249.920	39.920	37.621
	Ant1	5755	5735.240	5786.920	51.680	37.839
	Ant2	5755	5735.240	5792.920	57.680	37.791
	Ant1	5795	5775.000	5832.520	57.520	37.866
	Ant2	5795	5774.840	5827.000	52.160	37.745
11AX80CDD	Ant1	5210	5169.680	5250.320	80.640	77.270

	Ant2	5210	5169.840	5250.320	80.480	77.509
	Ant1	5775	5735.000	5816.600	81.600	77.414
	Ant2	5775	5735.160	5815.640	80.480	77.450

Test Graphs see Appendix A1 and Appendix A2.

7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

7.3.2. Test Procedure used

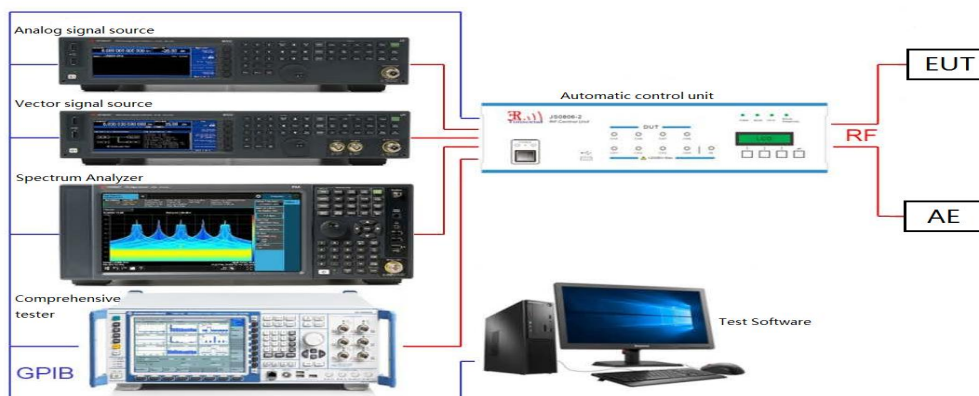
KDB 789033 D02v02r01 – Section C.2

ANSI C63.10-2013 – Section C

7.3.3. Test Setting

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

7.3.4. Test Setup



7.3.5. Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.440	5737.680	5753.120	0.5	PASS
	Ant2	5745	16.320	5736.840	5753.160	0.5	PASS
	Ant1	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant2	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant1	5825	15.600	5817.480	5833.080	0.5	PASS
	Ant2	5825	16.160	5816.960	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
	Ant2	5745	16.280	5737.480	5753.760	0.5	PASS
	Ant1	5785	17.520	5776.240	5793.760	0.5	PASS
	Ant2	5785	17.600	5776.200	5793.800	0.5	PASS
	Ant1	5825	16.920	5816.800	5833.720	0.5	PASS
	Ant2	5825	16.600	5816.800	5833.400	0.5	PASS
11N40SISO	Ant1	5755	35.440	5737.480	5772.920	0.5	PASS
	Ant2	5755	34.960	5737.560	5772.520	0.5	PASS
	Ant1	5795	31.600	5781.160	5812.760	0.5	PASS
	Ant2	5795	35.520	5777.400	5812.920	0.5	PASS
11AC20SISO	Ant1	5745	16.320	5737.400	5753.720	0.5	PASS
	Ant2	5745	16.480	5737.280	5753.760	0.5	PASS
	Ant1	5785	17.400	5776.360	5793.760	0.5	PASS
	Ant2	5785	16.880	5776.840	5793.720	0.5	PASS
	Ant1	5825	17.520	5816.200	5833.720	0.5	PASS
	Ant2	5825	17.560	5816.160	5833.720	0.5	PASS
11AC40SISO	Ant1	5755	35.360	5737.480	5772.840	0.5	PASS
	Ant2	5755	35.760	5737.400	5773.160	0.5	PASS
	Ant1	5795	35.040	5777.400	5812.440	0.5	PASS
	Ant2	5795	35.440	5777.400	5812.840	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS
	Ant2	5775	75.360	5737.400	5812.760	0.5	PASS
11AX20SISO	Ant1	5745	17.240	5736.480	5753.720	0.5	PASS
	Ant2	5745	15.160	5737.400	5752.560	0.5	PASS
	Ant1	5785	17.600	5776.160	5793.760	0.5	PASS
	Ant2	5785	18.240	5775.920	5794.160	0.5	PASS
	Ant1	5825	15.960	5817.400	5833.360	0.5	PASS
	Ant2	5825	17.480	5816.560	5834.040	0.5	PASS

11AX40SISO	Ant1	5755	36.560	5737.160	5773.720	0.5	PASS
	Ant2	5755	35.680	5737.720	5773.400	0.5	PASS
	Ant1	5795	35.040	5778.680	5813.720	0.5	PASS
	Ant2	5795	36.320	5777.400	5813.720	0.5	PASS
11AX80SISO	Ant1	5775	76.480	5737.240	5813.720	0.5	PASS
	Ant2	5775	76.160	5737.560	5813.720	0.5	PASS
11N20CDD	Ant1	5745	17.400	5736.360	5753.760	0.5	PASS
	Ant2	5745	17.120	5736.640	5753.760	0.5	PASS
	Ant1	5785	7.680	5783.600	5791.280	0.5	PASS
	Ant2	5785	17.560	5776.200	5793.760	0.5	PASS
	Ant1	5825	17.320	5816.440	5833.760	0.5	PASS
	Ant2	5825	17.560	5816.200	5833.760	0.5	PASS
11N40CDD	Ant1	5755	35.360	5737.400	5772.760	0.5	PASS
	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
	Ant2	5795	35.280	5777.400	5812.680	0.5	PASS
11AC20CDD	Ant1	5745	16.600	5737.120	5753.720	0.5	PASS
	Ant2	5745	17.600	5736.200	5753.800	0.5	PASS
	Ant1	5785	17.600	5776.200	5793.800	0.5	PASS
	Ant2	5785	17.320	5776.440	5793.760	0.5	PASS
	Ant1	5825	17.320	5816.440	5833.760	0.5	PASS
	Ant2	5825	17.560	5816.200	5833.760	0.5	PASS
11AC40CDD	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
	Ant2	5755	35.200	5737.480	5772.680	0.5	PASS
	Ant1	5795	33.760	5778.760	5812.520	0.5	PASS
	Ant2	5795	35.520	5777.400	5812.920	0.5	PASS
11AC80CDD	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS
	Ant2	5775	75.360	5737.400	5812.760	0.5	PASS
11AX20CDD	Ant1	5745	17.000	5736.200	5753.200	0.5	PASS
	Ant2	5745	16.400	5737.440	5753.840	0.5	PASS
	Ant1	5785	16.800	5777.080	5793.880	0.5	PASS
	Ant2	5785	16.760	5777.480	5794.240	0.5	PASS
	Ant1	5825	18.240	5816.200	5834.440	0.5	PASS
	Ant2	5825	18.680	5815.720	5834.400	0.5	PASS
11AX40CDD	Ant1	5755	36.880	5737.000	5773.880	0.5	PASS
	Ant2	5755	36.720	5737.000	5773.720	0.5	PASS
	Ant1	5795	37.120	5776.600	5813.720	0.5	PASS

	Ant2	5795	36.000	5777.400	5813.400	0.5	PASS
11AX80CDD	Ant1	5775	76.480	5737.400	5813.880	0.5	PASS
	Ant2	5775	76.160	5737.400	5813.560	0.5	PASS

Test Graphs see Appendix A3.

7.4. Output Power Measurement

7.4.1. Test Limit

For FCC Power Measurement Limit

For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (23.98dBm) or 11dBm +10 log (26dB BW).

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For IC Power Measurement Limit

For the band 5.15-5.25 GHz, the maximum e.i.r.p. shall not exceed 200 mW (23.01dBm) or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power shall not exceed 250 mW (23.98dBm) or $11 + 10 \log_{10} B$, dBm, whichever power is less. The maximum e.i.r.p. shall not exceed 1.0 W (30dBm) or $17 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz.

For the 5.725-5.85 GHz band, the maximum conducted output power shall not exceed 1 W.

If transmitting antennas of directional gain greater than 6dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

7.4.2. Test Procedure Used

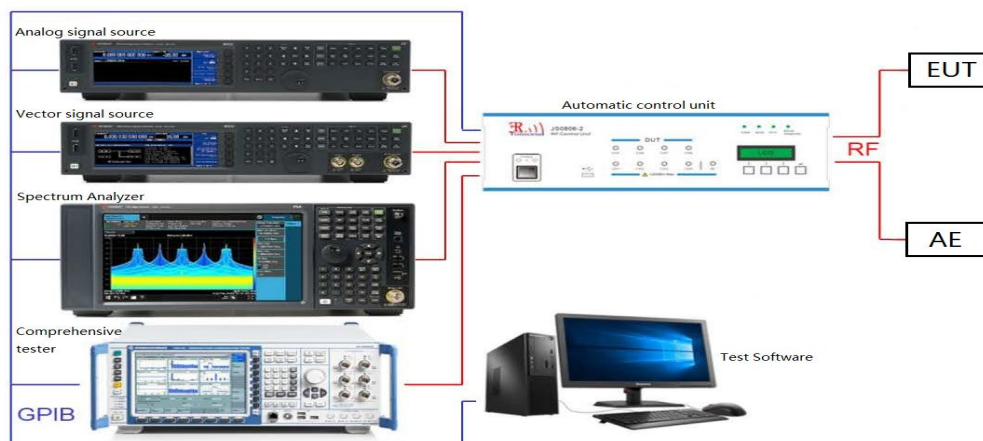
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.4.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.4.4. Test Setup



7.4.5. Test Rate Assessment

Power output test was verified over all data rates of each mode shown as below, and then choose the maximum power output (yellow marker) for final test of each channel.

N _{Tx}	802.11a	MCS Index for 802.11n	Data Rate (Mbps)			
			20MHz Bandwidth		40MHz Bandwidth	
			800ns GI	400ns GI	800ns GI	400ns GI
2	6	8	13.0	14.4	27.0	30.0
2	9	9	26.0	28.9	54.0	60.0
2	12	10	39.0	43.3	81.0	90.0
2	18	11	52.0	57.8	108.0	120.0
2	24	12	78.0	86.7	162.0	180.0
2	36	13	104.0	115.6	216.0	240.0
2	48	14	117.0	130.0	243.0	270.0
2	54	15	130.0	144.4	270.0	300.0

N _{Tx}	MCS Index for 802.11ac	Data Rate (Mbps)					
		20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
		800ns GI	400ns GI	800ns GI	400ns GI	800ns GI	400ns GI
2	0	13.0	14.4	27.0	30.0	58.6	65.0
2	1	26.0	28.8	54.0	60.0	117.0	130.0
2	2	39.0	43.4	81.0	90.0	175.6	195.0
2	3	52.0	57.8	108.0	120.0	234.0	260.0
2	4	78.0	86.6	162.0	180.0	351.0	390.0
2	5	104.0	115.6	216.0	240.0	468.0	520.0
2	6	117.0	130.0	243.0	270.0	526.6	585.0
2	7	130.0	144.4	270.0	300.0	585.0	650.0
2	8	156.0	173.4	324.0	360.0	702.0	780.0
2	9	--	--	360.0	400.0	780.0	866.6

Note: Power output test was verified over all data rates of each mode shown as above, and then choose the maximum power output (yellow marker) for final test of each channel.

7.4.6. Test Result

Test Mode	Antenna	Channel	Power [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.81	≤27.63	PASS
	Ant2	5180	9.98	≤27.63	PASS
	Ant1	5200	11.78	≤27.63	PASS
	Ant2	5200	10.30	≤27.63	PASS
	Ant1	5240	11.79	≤27.63	PASS
	Ant2	5240	11.46	≤27.63	PASS
	Ant1	5745	13.58	≤27.63	PASS
	Ant2	5745	12.93	≤27.63	PASS
	Ant1	5785	13.43	≤27.63	PASS
	Ant2	5785	12.79	≤27.63	PASS
	Ant1	5825	13.54	≤27.63	PASS
	Ant2	5825	12.70	≤27.63	PASS
11N20SISO	Ant1	5180	11.89	≤27.63	PASS
	Ant2	5180	8.73	≤27.63	PASS
	Ant1	5200	11.79	≤27.63	PASS
	Ant2	5200	9.22	≤27.63	PASS
	Ant1	5240	12.37	≤27.63	PASS
	Ant2	5240	10.27	≤27.63	PASS
	Ant1	5745	13.58	≤27.63	PASS
	Ant2	5745	12.81	≤27.63	PASS
	Ant1	5785	13.47	≤27.63	PASS
	Ant2	5785	12.76	≤27.63	PASS
	Ant1	5825	13.56	≤27.63	PASS
	Ant2	5825	12.77	≤27.63	PASS
11N40SISO	Ant1	5190	13.10	≤27.63	PASS
	Ant2	5190	9.76	≤27.63	PASS
	Ant1	5230	13.46	≤27.63	PASS
	Ant2	5230	10.54	≤27.63	PASS
	Ant1	5755	15.23	≤27.63	PASS
	Ant2	5755	13.93	≤27.63	PASS
	Ant1	5795	15.38	≤27.63	PASS
	Ant2	5795	14.07	≤27.63	PASS
11AC20SISO	Ant1	5180	11.80	≤27.63	PASS

	Ant2	5180	8.74	≤ 27.63	PASS
	Ant1	5200	11.96	≤ 27.63	PASS
	Ant2	5200	9.17	≤ 27.63	PASS
	Ant1	5240	12.41	≤ 27.63	PASS
	Ant2	5240	10.29	≤ 27.63	PASS
	Ant1	5745	13.60	≤ 27.63	PASS
	Ant2	5745	13.13	≤ 27.63	PASS
	Ant1	5785	13.48	≤ 27.63	PASS
	Ant2	5785	12.90	≤ 27.63	PASS
	Ant1	5825	13.61	≤ 27.63	PASS
	Ant2	5825	12.94	≤ 27.63	PASS
11AC40SISO	Ant1	5190	13.25	≤ 27.63	PASS
	Ant2	5190	9.76	≤ 27.63	PASS
	Ant1	5230	13.66	≤ 27.63	PASS
	Ant2	5230	10.79	≤ 27.63	PASS
	Ant1	5755	15.24	≤ 27.63	PASS
	Ant2	5755	13.99	≤ 27.63	PASS
	Ant1	5795	15.42	≤ 27.63	PASS
	Ant2	5795	14.22	≤ 27.63	PASS
11AC80SISO	Ant1	5210	10.99	≤ 27.63	PASS
	Ant2	5210	10.08	≤ 27.63	PASS
	Ant1	5775	14.44	≤ 27.63	PASS
	Ant2	5775	13.51	≤ 27.63	PASS
11AX20SISO	Ant1	5180	12.38	≤ 27.63	PASS
	Ant2	5180	9.07	≤ 27.63	PASS
	Ant1	5200	12.50	≤ 27.63	PASS
	Ant2	5200	9.42	≤ 27.63	PASS
	Ant1	5240	13.09	≤ 27.63	PASS
	Ant2	5240	10.54	≤ 27.63	PASS
	Ant1	5745	14.15	≤ 27.63	PASS
	Ant2	5745	13.32	≤ 27.63	PASS
	Ant1	5785	14.10	≤ 27.63	PASS
	Ant2	5785	13.06	≤ 27.63	PASS
	Ant1	5825	13.42	≤ 27.63	PASS
	Ant2	5825	13.07	≤ 27.63	PASS
11AX40SISO	Ant1	5190	13.10	≤ 27.63	PASS
	Ant2	5190	10.15	≤ 27.63	PASS

	Ant1	5230	13.84	≤ 27.63	PASS
	Ant2	5230	11.12	≤ 27.63	PASS
	Ant1	5755	15.15	≤ 27.63	PASS
	Ant2	5755	14.18	≤ 27.63	PASS
	Ant1	5795	15.39	≤ 27.63	PASS
	Ant2	5795	14.35	≤ 27.63	PASS
11AX80SISO	Ant1	5210	13.13	≤ 27.63	PASS
	Ant2	5210	10.40	≤ 27.63	PASS
	Ant1	5775	14.84	≤ 27.63	PASS
	Ant2	5775	13.95	≤ 27.63	PASS
11N20CDD	Ant1	5180	12.18	≤ 27.63	PASS
	Ant2	5180	8.96	≤ 27.63	PASS
	total	5180	13.87	≤ 27.63	PASS
	Ant1	5200	11.14	≤ 27.63	PASS
	Ant2	5200	9.01	≤ 27.63	PASS
	total	5200	13.21	≤ 27.63	PASS
	Ant1	5240	10.43	≤ 27.63	PASS
	Ant2	5240	8.90	≤ 27.63	PASS
	total	5240	12.74	≤ 27.63	PASS
	Ant1	5745	11.76	≤ 27.63	PASS
	Ant2	5745	12.18	≤ 27.63	PASS
	total	5745	14.99	≤ 27.63	PASS
	Ant1	5785	6.86	≤ 27.63	PASS
	Ant2	5785	12.24	≤ 27.63	PASS
	total	5785	13.35	≤ 27.63	PASS
	Ant1	5825	11.92	≤ 27.63	PASS
	Ant2	5825	12.05	≤ 27.63	PASS
	total	5825	15.00	≤ 27.63	PASS
11N40CDD	Ant1	5190	10.63	≤ 27.63	PASS
	Ant2	5190	8.69	≤ 27.63	PASS
	total	5190	12.78	≤ 27.63	PASS
	Ant1	5230	11.05	≤ 27.63	PASS
	Ant2	5230	9.65	≤ 27.63	PASS
	total	5230	13.42	≤ 27.63	PASS
	Ant1	5755	13.17	≤ 27.63	PASS
	Ant2	5755	13.07	≤ 27.63	PASS
	total	5755	16.13	≤ 27.63	PASS

	Ant1	5795	13.27	≤ 27.63	PASS
	Ant2	5795	13.25	≤ 27.63	PASS
	total	5795	16.27	≤ 27.63	PASS
11AC20CDD	Ant1	5180	9.96	≤ 27.63	PASS
	Ant2	5180	8.07	≤ 27.63	PASS
	total	5180	12.13	≤ 27.63	PASS
	Ant1	5200	9.91	≤ 27.63	PASS
	Ant2	5200	8.33	≤ 27.63	PASS
	total	5200	12.20	≤ 27.63	PASS
	Ant1	5240	10.37	≤ 27.63	PASS
	Ant2	5240	9.45	≤ 27.63	PASS
	total	5240	12.94	≤ 27.63	PASS
	Ant1	5745	11.52	≤ 27.63	PASS
	Ant2	5745	11.81	≤ 27.63	PASS
	total	5745	14.68	≤ 27.63	PASS
	Ant1	5785	11.51	≤ 27.63	PASS
	Ant2	5785	11.83	≤ 27.63	PASS
	total	5785	14.68	≤ 27.63	PASS
	Ant1	5825	11.55	≤ 27.63	PASS
	Ant2	5825	11.78	≤ 27.63	PASS
	total	5825	14.68	≤ 27.63	PASS
11AC40CDD	Ant1	5190	10.39	≤ 27.63	PASS
	Ant2	5190	8.49	≤ 27.63	PASS
	total	5190	12.55	≤ 27.63	PASS
	Ant1	5230	10.76	≤ 27.63	PASS
	Ant2	5230	9.37	≤ 27.63	PASS
	total	5230	13.13	≤ 27.63	PASS
	Ant1	5755	13.09	≤ 27.63	PASS
	Ant2	5755	12.68	≤ 27.63	PASS
	total	5755	15.90	≤ 27.63	PASS
	Ant1	5795	12.97	≤ 27.63	PASS
	Ant2	5795	13.01	≤ 27.63	PASS
	total	5795	16.00	≤ 27.63	PASS
11AC80CDD	Ant1	5210	10.34	≤ 27.63	PASS
	Ant2	5210	8.82	≤ 27.63	PASS
	total	5210	12.66	≤ 27.63	PASS
	Ant1	5775	13.57	≤ 27.63	PASS

	Ant2	5775	12.61	≤ 27.63	PASS
	total	5775	16.13	≤ 27.63	PASS
11AX20CDD	Ant1	5180	9.89	≤ 27.63	PASS
	Ant2	5180	8.11	≤ 27.63	PASS
	total	5180	12.10	≤ 27.63	PASS
	Ant1	5200	10.00	≤ 27.63	PASS
	Ant2	5200	8.69	≤ 27.63	PASS
	total	5200	12.40	≤ 27.63	PASS
	Ant1	5240	9.38	≤ 27.63	PASS
	Ant2	5240	8.61	≤ 27.63	PASS
	total	5240	12.02	≤ 27.63	PASS
	Ant1	5745	11.33	≤ 27.63	PASS
	Ant2	5745	12.15	≤ 27.63	PASS
	total	5745	14.77	≤ 27.63	PASS
	Ant1	5785	11.54	≤ 27.63	PASS
	Ant2	5785	12.17	≤ 27.63	PASS
	total	5785	14.88	≤ 27.63	PASS
	Ant1	5825	12.07	≤ 27.63	PASS
	Ant2	5825	12.42	≤ 27.63	PASS
	total	5825	15.26	≤ 27.63	PASS
11AX40CDD	Ant1	5190	10.69	≤ 27.63	PASS
	Ant2	5190	8.77	≤ 27.63	PASS
	total	5190	12.85	≤ 27.63	PASS
	Ant1	5230	11.31	≤ 27.63	PASS
	Ant2	5230	9.83	≤ 27.63	PASS
	total	5230	13.64	≤ 27.63	PASS
	Ant1	5755	13.58	≤ 27.63	PASS
	Ant2	5755	12.78	≤ 27.63	PASS
	total	5755	16.21	≤ 27.63	PASS
	Ant1	5795	13.22	≤ 27.63	PASS
	Ant2	5795	13.67	≤ 27.63	PASS
	total	5795	16.46	≤ 27.63	PASS
11AX80CDD	Ant1	5210	10.64	≤ 27.63	PASS
	Ant2	5210	9.28	≤ 27.63	PASS
	total	5210	13.02	≤ 27.63	PASS
	Ant1	5775	13.79	≤ 27.63	PASS
	Ant2	5775	12.90	≤ 27.63	PASS

	total	5775	16.38	≤27.63	PASS
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Min Limit=30-(8.37-6)=27.63dBm

Test Graphs see Appendix A3.

The Duty Cycle Factor is compensated in the Offset of graph..

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

7.5.2. Test Procedure Used

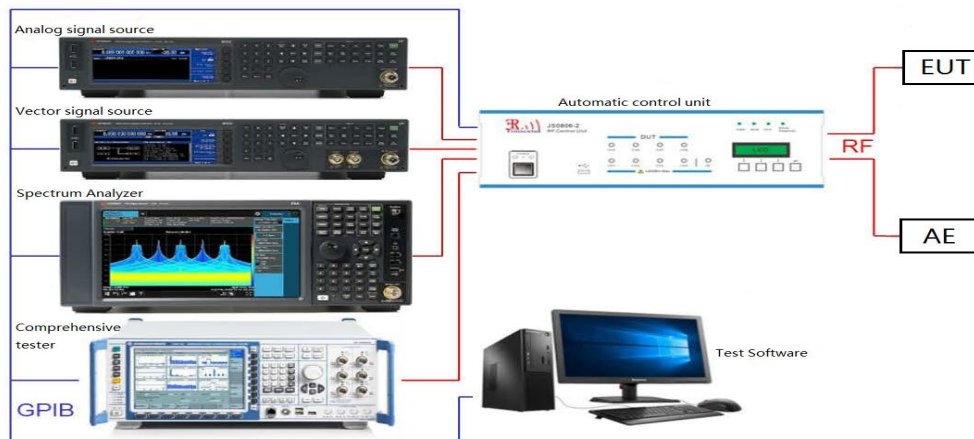
KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

ANSI C63.10-2013 – Section 12.3.3.2 Method PM-G

7.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4. Test Setup



7.5.5. Test Result

A TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For FCC

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For IC

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the 5.725-5.85 GHz band, the power spectral density shall not exceed 30 dBm in any 500 kHz band.

7.6.2. Test Procedure Used

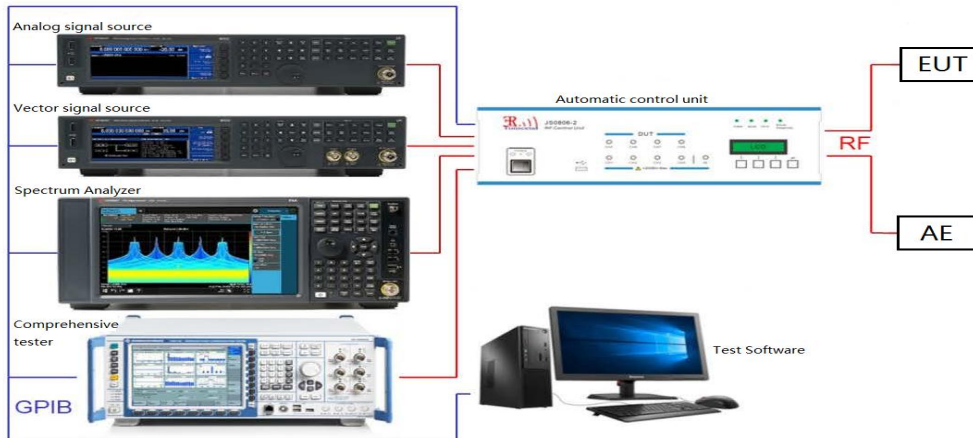
KDB 789033 D02v02r01 - Section F

ANSI C63.10-2013 - Section 12.3.2.2

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.
11. When the measurement bandwidth of Maximum PSD is specified in 500 kHz, add a constant factor $10 \cdot \log(500\text{kHz}/100\text{kHz}) = 7$ dB to the measured result

7.6.4. Test Setup



7.6.5. Test Result

Test Mode	Antenna	Channel	Power [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	3.16	≤14.63	PASS
	Ant2	5180	0.9	≤14.63	PASS
	Ant1	5200	3.23	≤14.63	PASS
	Ant2	5200	1.17	≤14.63	PASS
	Ant1	5240	4.01	≤14.63	PASS
	Ant2	5240	1.95	≤14.63	PASS
	Ant1	5745	2.54	≤27.63	PASS
	Ant2	5745	1.16	≤27.63	PASS
	Ant1	5785	1.35	≤27.63	PASS
	Ant2	5785	1.64	≤27.63	PASS
	Ant1	5825	2.35	≤27.63	PASS
	Ant2	5825	0.77	≤27.63	PASS
11N20SISO	Ant1	5180	2.41	≤14.63	PASS
	Ant2	5180	-0.46	≤14.63	PASS
	Ant1	5200	2.43	≤14.63	PASS
	Ant2	5200	-0.53	≤14.63	PASS
	Ant1	5240	3.42	≤14.63	PASS
	Ant2	5240	0.96	≤14.63	PASS
	Ant1	5745	2.09	≤27.63	PASS
	Ant2	5745	0.13	≤27.63	PASS
	Ant1	5785	1.71	≤27.63	PASS
	Ant2	5785	0.92	≤27.63	PASS
	Ant1	5825	1.61	≤27.63	PASS
	Ant2	5825	0.87	≤27.63	PASS
11N40SISO	Ant1	5190	0.46	≤14.63	PASS
	Ant2	5190	-2.72	≤14.63	PASS
	Ant1	5230	1.01	≤14.63	PASS
	Ant2	5230	-2.05	≤14.63	PASS
	Ant1	5755	0.23	≤27.63	PASS
	Ant2	5755	-0.92	≤27.63	PASS
	Ant1	5795	0.61	≤27.63	PASS
	Ant2	5795	-0.71	≤27.63	PASS
11AC20SISO	Ant1	5180	2.29	≤14.63	PASS

	Ant2	5180	-0.93	≤ 14.63	PASS
	Ant1	5200	2.83	≤ 14.63	PASS
	Ant2	5200	-0.49	≤ 14.63	PASS
	Ant1	5240	3.38	≤ 14.63	PASS
	Ant2	5240	0.63	≤ 14.63	PASS
	Ant1	5745	1.43	≤ 27.63	PASS
	Ant2	5745	-0.13	≤ 27.63	PASS
	Ant1	5785	0.98	≤ 27.63	PASS
	Ant2	5785	0.87	≤ 27.63	PASS
	Ant1	5825	1.92	≤ 27.63	PASS
	Ant2	5825	0.71	≤ 27.63	PASS
11AC40SISO	Ant1	5190	0.57	≤ 14.63	PASS
	Ant2	5190	-2.34	≤ 14.63	PASS
	Ant1	5230	1.15	≤ 14.63	PASS
	Ant2	5230	-1.34	≤ 14.63	PASS
	Ant1	5755	0.72	≤ 27.63	PASS
	Ant2	5755	-1.29	≤ 27.63	PASS
	Ant1	5795	0.15	≤ 27.63	PASS
	Ant2	5795	-0.61	≤ 27.63	PASS
11AC80SISO	Ant1	5210	-44.55	≤ 14.63	PASS
	Ant2	5210	-4.79	≤ 14.63	PASS
	Ant1	5775	-3.52	≤ 27.63	PASS
	Ant2	5775	-4.48	≤ 27.63	PASS
11AX20SISO	Ant1	5180	3	≤ 14.63	PASS
	Ant2	5180	-0.43	≤ 14.63	PASS
	Ant1	5200	3.47	≤ 14.63	PASS
	Ant2	5200	1.38	≤ 14.63	PASS
	Ant1	5240	3.66	≤ 14.63	PASS
	Ant2	5240	1.68	≤ 14.63	PASS
	Ant1	5745	2.02	≤ 27.63	PASS
	Ant2	5745	0.38	≤ 27.63	PASS
	Ant1	5785	2.38	≤ 27.63	PASS
	Ant2	5785	1.12	≤ 27.63	PASS
	Ant1	5825	1.01	≤ 27.63	PASS
	Ant2	5825	1.26	≤ 27.63	PASS
11AX40SISO	Ant1	5190	0.59	≤ 14.63	PASS
	Ant2	5190	-2.94	≤ 14.63	PASS

	Ant1	5230	0.57	≤ 14.63	PASS
	Ant2	5230	-2.21	≤ 14.63	PASS
	Ant1	5755	-0.05	≤ 27.63	PASS
	Ant2	5755	-1.22	≤ 27.63	PASS
	Ant1	5795	-0.06	≤ 27.63	PASS
	Ant2	5795	-1.8	≤ 27.63	PASS
11AX80SISO	Ant1	5210	-2.45	≤ 14.63	PASS
	Ant2	5210	-5.79	≤ 14.63	PASS
	Ant1	5775	-3.73	≤ 27.63	PASS
	Ant2	5775	-5.31	≤ 27.63	PASS
11N20CDD	Ant1	5180	1.27	≤ 14.63	PASS
	Ant2	5180	0.09	≤ 14.63	PASS
	total	5180	3.73	≤ 14.63	PASS
	Ant1	5200	1.84	≤ 14.63	PASS
	Ant2	5200	-0.7	≤ 14.63	PASS
	total	5200	3.76	≤ 14.63	PASS
	Ant1	5240	1.3	≤ 14.63	PASS
	Ant2	5240	-0.23	≤ 14.63	PASS
	total	5240	3.61	≤ 14.63	PASS
	Ant1	5745	0.13	≤ 27.63	PASS
	Ant2	5745	0.03	≤ 27.63	PASS
	total	5745	3.09	≤ 27.63	PASS
	Ant1	5785	-3.37	≤ 27.63	PASS
	Ant2	5785	-0.3	≤ 27.63	PASS
	total	5785	1.44	≤ 27.63	PASS
	Ant1	5825	0.24	≤ 27.63	PASS
	Ant2	5825	0.4	≤ 27.63	PASS
	total	5825	3.33	≤ 27.63	PASS
11N40CDD	Ant1	5190	-1.87	≤ 14.63	PASS
	Ant2	5190	-3.43	≤ 14.63	PASS
	total	5190	0.43	≤ 14.63	PASS
	Ant1	5230	-1.84	≤ 14.63	PASS
	Ant2	5230	-2.89	≤ 14.63	PASS
	total	5230	0.68	≤ 14.63	PASS
	Ant1	5755	-2.03	≤ 27.63	PASS
	Ant2	5755	-0.85	≤ 27.63	PASS
	total	5755	1.61	≤ 27.63	PASS

	Ant1	5795	-1.91	≤ 27.63	PASS
	Ant2	5795	-1.85	≤ 27.63	PASS
	total	5795	1.13	≤ 27.63	PASS
11AC20CDD	Ant1	5180	-0.23	≤ 14.63	PASS
	Ant2	5180	-1.37	≤ 14.63	PASS
	total	5180	2.25	≤ 14.63	PASS
	Ant1	5200	0.39	≤ 14.63	PASS
	Ant2	5200	-0.57	≤ 14.63	PASS
	total	5200	2.95	≤ 14.63	PASS
	Ant1	5240	1.13	≤ 14.63	PASS
	Ant2	5240	-0.29	≤ 14.63	PASS
	total	5240	3.49	≤ 14.63	PASS
	Ant1	5745	0	≤ 27.63	PASS
	Ant2	5745	-0.28	≤ 27.63	PASS
	total	5745	2.87	≤ 27.63	PASS
	Ant1	5785	-0.65	≤ 27.63	PASS
	Ant2	5785	-0.58	≤ 27.63	PASS
	total	5785	2.40	≤ 27.63	PASS
	Ant1	5825	-0.34	≤ 27.63	PASS
	Ant2	5825	-0.12	≤ 27.63	PASS
	total	5825	2.78	≤ 27.63	PASS
11AC40CDD	Ant1	5190	-1.78	≤ 14.63	PASS
	Ant2	5190	-3.72	≤ 14.63	PASS
	total	5190	0.37	≤ 14.63	PASS
	Ant1	5230	-1.95	≤ 14.63	PASS
	Ant2	5230	-2.8	≤ 14.63	PASS
	total	5230	0.66	≤ 14.63	PASS
	Ant1	5755	-1.88	≤ 27.63	PASS
	Ant2	5755	-1.86	≤ 27.63	PASS
	total	5755	1.14	≤ 27.63	PASS
	Ant1	5795	-2.04	≤ 27.63	PASS
	Ant2	5795	-0.87	≤ 27.63	PASS
	total	5795	1.59	≤ 27.63	PASS
11AC80CDD	Ant1	5210	-4.79	≤ 14.63	PASS
	Ant2	5210	-6.98	≤ 14.63	PASS
	total	5210	-2.74	≤ 14.63	PASS
	Ant1	5775	-4.75	≤ 27.63	PASS

	Ant2	5775	-5.46	≤ 27.63	PASS
	total	5775	-2.08	≤ 27.63	PASS
11AX20CDD	Ant1	5180	0.96	≤ 14.63	PASS
	Ant2	5180	-1.54	≤ 14.63	PASS
	total	5180	2.90	≤ 14.63	PASS
	Ant1	5200	0.95	≤ 14.63	PASS
	Ant2	5200	-0.16	≤ 14.63	PASS
	total	5200	3.44	≤ 14.63	PASS
	Ant1	5240	0.71	≤ 14.63	PASS
	Ant2	5240	-0.63	≤ 14.63	PASS
	total	5240	3.10	≤ 14.63	PASS
	Ant1	5745	-0.54	≤ 27.63	PASS
	Ant2	5745	0.22	≤ 27.63	PASS
	total	5745	2.87	≤ 27.63	PASS
	Ant1	5785	-0.17	≤ 27.63	PASS
	Ant2	5785	0.41	≤ 27.63	PASS
	total	5785	3.14	≤ 27.63	PASS
	Ant1	5825	1.53	≤ 27.63	PASS
	Ant2	5825	0.73	≤ 27.63	PASS
	total	5825	4.16	≤ 27.63	PASS
11AX40CDD	Ant1	5190	-2.56	≤ 14.63	PASS
	Ant2	5190	-4.42	≤ 14.63	PASS
	total	5190	-0.38	≤ 14.63	PASS
	Ant1	5230	-2.06	≤ 14.63	PASS
	Ant2	5230	-3.13	≤ 14.63	PASS
	total	5230	0.45	≤ 14.63	PASS
	Ant1	5755	-1.37	≤ 27.63	PASS
	Ant2	5755	-3.07	≤ 27.63	PASS
	total	5755	0.87	≤ 27.63	PASS
	Ant1	5795	-2.7	≤ 27.63	PASS
	Ant2	5795	-1.58	≤ 27.63	PASS
	total	5795	0.91	≤ 27.63	PASS
11AX80CDD	Ant1	5210	-5.41	≤ 14.63	PASS
	Ant2	5210	-6.58	≤ 14.63	PASS
	total	5210	-2.95	≤ 14.63	PASS
	Ant1	5775	-4.61	≤ 27.63	PASS
	Ant2	5775	-5.54	≤ 27.63	PASS

	total	5775	-2.04	≤ 27.63	PASS
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Band 5.15-5.25 GHz Min Limit= $17-(8.37-6)=14.63\text{dBm}$

Band 5.725-5.85 GHz Min Limit= $30-(8.37-6)=27.63\text{dBm}$

Test Graphs see Appendix C.

The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

The Duty Cycle Factor is compensated in the Offset of graph.

7.7. Frequency Stability Measurement

7.7.1. Test Limit

Manufactures 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.

7.7.2. Test Procedure Used

Frequency Stability Under Temperature Variations:

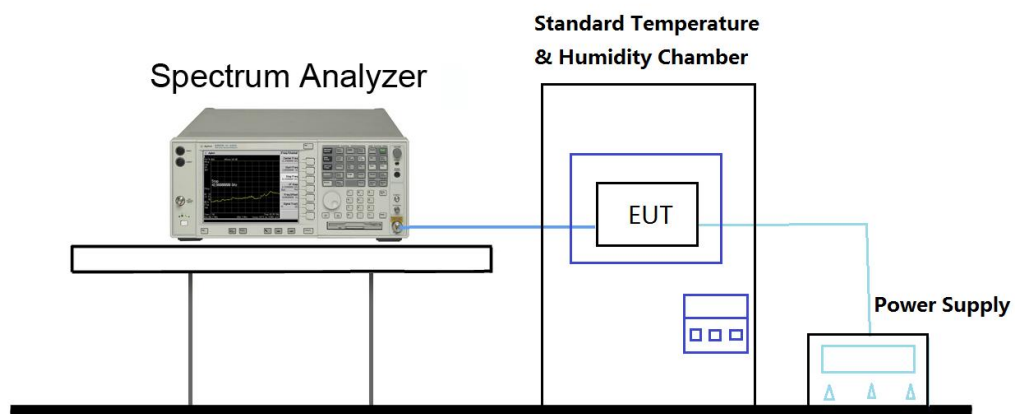
The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to highest. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C decreased per stage until the lowest temperature reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

7.7.3. Test Setup



7.7.4. Test Result

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-29000.00	-5.598456	20	PASS
			LV	NT	-27000.00	-5.212355	20	PASS
			HV	NT	-26000.00	-5.019305	20	PASS
	Ant2	5180	NV	NT	-19000.00	-3.667954	20	PASS
			LV	NT	-19000.00	-3.667954	20	PASS
			HV	NT	-19000.00	-3.667954	20	PASS
	Ant1	5200	NV	NT	-21000.00	-4.038462	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-18000.00	-3.461538	20	PASS
	Ant2	5200	NV	NT	-18000.00	-3.461538	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant1	5240	NV	NT	-19000.00	-3.625954	20	PASS
			LV	NT	-19000.00	-3.625954	20	PASS
			HV	NT	-19000.00	-3.625954	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant1	5745	NV	NT	-27000.00	-4.699739	20	PASS
			LV	NT	-23000.00	-4.003481	20	PASS
			HV	NT	-22000.00	-3.829417	20	PASS
	Ant2	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-6000.00	-1.044386	20	PASS
			HV	NT	-6000.00	-1.044386	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-6000.00	-1.037165	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-3000.00	-0.518583	20	PASS
			HV	NT	-3000.00	-0.518583	20	PASS
	Ant1	5825	NV	NT	-5000.00	-0.858369	20	PASS
			LV	NT	-3000.00	-0.515021	20	PASS

	Ant2	5825	HV	NT	-2000.00	-0.343348	20	PASS
			NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N20SIS O	Ant1	5180	NV	NT	-22000.00	-4.247104	20	PASS
			LV	NT	-22000.00	-4.247104	20	PASS
			HV	NT	-22000.00	-4.247104	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-19000.00	-3.667954	20	PASS
			HV	NT	-19000.00	-3.667954	20	PASS
	Ant1	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-18000.00	-3.461538	20	PASS
			HV	NT	-18000.00	-3.461538	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-18000.00	-3.461538	20	PASS
			HV	NT	-18000.00	-3.461538	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant1	5745	NV	NT	-12000.00	-2.088773	20	PASS
			LV	NT	-10000.00	-1.740644	20	PASS
			HV	NT	-9000.00	-1.566580	20	PASS
	Ant2	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-6000.00	-1.044386	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-3000.00	-0.518583	20	PASS
			LV	NT	-3000.00	-0.518583	20	PASS
			HV	NT	-2000.00	-0.345722	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-3000.00	-0.515021	20	PASS

	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SIS O	Ant1	5190	NV	NT	-5000.00	-0.963391	20	PASS
			LV	NT	-8000.00	-1.541426	20	PASS
			HV	NT	-9000.00	-1.734104	20	PASS
	Ant2	5190	NV	NT	-17000.00	-3.275530	20	PASS
			LV	NT	-18000.00	-3.468208	20	PASS
			HV	NT	-18000.00	-3.468208	20	PASS
	Ant1	5230	NV	NT	-20000.00	-3.824092	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant2	5230	NV	NT	-22000.00	-4.206501	20	PASS
			LV	NT	-21000.00	-4.015296	20	PASS
			HV	NT	-21000.00	-4.015296	20	PASS
	Ant1	5755	NV	NT	-21000.00	-3.649001	20	PASS
			LV	NT	-15000.00	-2.606429	20	PASS
			HV	NT	-13000.00	-2.258905	20	PASS
	Ant2	5755	NV	NT	-3000.00	-0.521286	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant1	5795	NV	NT	-7000.00	-1.207938	20	PASS
			LV	NT	-6000.00	-1.035375	20	PASS
			HV	NT	-6000.00	-1.035375	20	PASS
	Ant2	5795	NV	NT	-5000.00	-0.862813	20	PASS
			LV	NT	-4000.00	-0.690250	20	PASS
			HV	NT	-4000.00	-0.690250	20	PASS
11AC20SI SO	Ant1	5180	NV	NT	-21000.00	-4.054054	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-28000.00	-5.405405	20	PASS
			LV	NT	-26000.00	-5.019305	20	PASS
			HV	NT	-24000.00	-4.633205	20	PASS
	Ant1	5200	NV	NT	-18000.00	-3.461538	20	PASS
			LV	NT	-17000.00	-3.269231	20	PASS
			HV	NT	-18000.00	-3.461538	20	PASS
	Ant2	5200	NV	NT	-22000.00	-4.230769	20	PASS

			LV	NT	-23000.00	-4.423077	20	PASS
			HV	NT	-23000.00	-4.423077	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-18000.00	-3.435115	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-7000.00	-1.218451	20	PASS
			LV	NT	-7000.00	-1.218451	20	PASS
			HV	NT	-7000.00	-1.218451	20	PASS
	Ant2	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant1	5785	NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-3000.00	-0.518583	20	PASS
			LV	NT	-2000.00	-0.345722	20	PASS
			HV	NT	-2000.00	-0.345722	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-1000.00	-0.171674	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	1000.00	0.171674	20	PASS
11AC40SI SO	Ant1	5190	NV	NT	-15000.00	-2.890173	20	PASS
			LV	NT	-15000.00	-2.890173	20	PASS
			HV	NT	-15000.00	-2.890173	20	PASS
	Ant2	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant1	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-18000.00	-3.441683	20	PASS
			HV	NT	-18000.00	-3.441683	20	PASS
	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS

	Ant1	5755	HV	NT	-19000.00	-3.632887	20	PASS
			NV	NT	-7000.00	-1.216334	20	PASS
			LV	NT	-6000.00	-1.042572	20	PASS
			HV	NT	-6000.00	-1.042572	20	PASS
	Ant2	5755	NV	NT	-3000.00	-0.521286	20	PASS
			LV	NT	-2000.00	-0.347524	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant1	5795	NV	NT	-6000.00	-1.035375	20	PASS
			LV	NT	-7000.00	-1.207938	20	PASS
			HV	NT	-6000.00	-1.035375	20	PASS
	Ant2	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-1000.00	-0.172563	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
11AC80SI SO	Ant1	5210	NV	NT	-19000.00	-3.646833	20	PASS
			LV	NT	-22000.00	-4.222649	20	PASS
			HV	NT	-23000.00	-4.414587	20	PASS
	Ant2	5210	NV	NT	-27000.00	-5.182342	20	PASS
			LV	NT	-27000.00	-5.182342	20	PASS
			HV	NT	-27000.00	-5.182342	20	PASS
	Ant1	5775	NV	NT	-7000.00	-1.212121	20	PASS
			LV	NT	-10000.00	-1.731602	20	PASS
			HV	NT	-11000.00	-1.904762	20	PASS
	Ant2	5775	NV	NT	-17000.00	-2.943723	20	PASS
			LV	NT	-17000.00	-2.943723	20	PASS
			HV	NT	-17000.00	-2.943723	20	PASS
11AX20SI SO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant1	5200	NV	NT	-17000.00	-3.269231	20	PASS
			LV	NT	-18000.00	-3.461538	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant2	5200	NV	NT	-24000.00	-4.615385	20	PASS
			LV	NT	-24000.00	-4.615385	20	PASS
			HV	NT	-23000.00	-4.423077	20	PASS

	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-18000.00	-3.435115	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-6000.00	-1.044386	20	PASS
	Ant2	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-6000.00	-1.044386	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
			HV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	NT	-2000.00	-0.345722	20	PASS
			LV	NT	-3000.00	-0.518583	20	PASS
			HV	NT	-2000.00	-0.345722	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-1000.00	-0.171674	20	PASS
	Ant2	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX40SI SO	Ant1	5190	NV	NT	-17000.00	-3.275530	20	PASS
			LV	NT	-17000.00	-3.275530	20	PASS
			HV	NT	-17000.00	-3.275530	20	PASS
	Ant2	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant1	5230	NV	NT	-17000.00	-3.250478	20	PASS
			LV	NT	-17000.00	-3.250478	20	PASS
			HV	NT	-17000.00	-3.250478	20	PASS
	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant1	5755	NV	NT	-3000.00	-0.521286	20	PASS

			LV	NT	-3000.00	-0.521286	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant2	5755	NV	NT	-3000.00	-0.521286	20	PASS
			LV	NT	-2000.00	-0.347524	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant1	5795	NV	NT	-5000.00	-0.862813	20	PASS
			LV	NT	-6000.00	-1.035375	20	PASS
			HV	NT	-6000.00	-1.035375	20	PASS
	Ant2	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-2000.00	-0.345125	20	PASS
			HV	NT	-1000.00	-0.172563	20	PASS
11AX80SI SO	Ant1	5210	NV	NT	-26000.00	-4.990403	20	PASS
			LV	NT	-26000.00	-4.990403	20	PASS
			HV	NT	-26000.00	-4.990403	20	PASS
	Ant2	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant1	5775	NV	NT	-16000.00	-2.770563	20	PASS
			LV	NT	-16000.00	-2.770563	20	PASS
			HV	NT	-16000.00	-2.770563	20	PASS
	Ant2	5775	NV	NT	-18000.00	-3.116883	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS
11N20CD D	Ant1	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-17000.00	-3.281853	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS

	Ant2	5240	HV	NT	-17000.00	-3.244275	20	PASS
			NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-16000.00	-3.053435	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant2	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-7000.00	-1.218451	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-6000.00	-1.037165	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-4000.00	-0.691443	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-3000.00	-0.518583	20	PASS
	Ant1	5825	NV	NT	-2000.00	-0.343348	20	PASS
			LV	NT	-2000.00	-0.343348	20	PASS
			HV	NT	-2000.00	-0.343348	20	PASS
	Ant2	5825	NV	NT	-2000.00	-0.343348	20	PASS
			LV	NT	-2000.00	-0.343348	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40CD D	Ant1	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant2	5190	NV	NT	-20000.00	-3.853565	20	PASS
			LV	NT	-20000.00	-3.853565	20	PASS
			HV	NT	-21000.00	-4.046243	20	PASS
	Ant1	5230	NV	NT	-17000.00	-3.250478	20	PASS
			LV	NT	-17000.00	-3.250478	20	PASS
			HV	NT	-16000.00	-3.059273	20	PASS
	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant1	5755	NV	NT	-4000.00	-0.695048	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS

	Ant2	5755	NV	NT	-5000.00	-0.868810	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant1	5795	NV	NT	-3000.00	-0.517688	20	PASS
			LV	NT	-3000.00	-0.517688	20	PASS
			HV	NT	-4000.00	-0.690250	20	PASS
	Ant2	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-4000.00	-0.690250	20	PASS
			HV	NT	-3000.00	-0.517688	20	PASS
11AC20C DD	Ant1	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-17000.00	-3.281853	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-17000.00	-3.281853	20	PASS
	Ant1	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-5000.00	-0.870322	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant2	5745	NV	NT	-5000.00	-0.870322	20	PASS
			LV	NT	-4000.00	-0.696258	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant1	5785	NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	NT	-4000.00	-0.691443	20	PASS

			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-4000.00	-0.691443	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40C DD	Ant1	5190	NV	NT	-20000.00	-3.853565	20	PASS
			LV	NT	-20000.00	-3.853565	20	PASS
			HV	NT	-20000.00	-3.853565	20	PASS
	Ant2	5190	NV	NT	-20000.00	-3.853565	20	PASS
			LV	NT	-20000.00	-3.853565	20	PASS
			HV	NT	-20000.00	-3.853565	20	PASS
	Ant1	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant1	5755	NV	NT	-4000.00	-0.695048	20	PASS
			LV	NT	-3000.00	-0.521286	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant2	5755	NV	NT	-4000.00	-0.695048	20	PASS
			LV	NT	-5000.00	-0.868810	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant1	5795	NV	NT	-1000.00	-0.172563	20	PASS
			LV	NT	-2000.00	-0.345125	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
	Ant2	5795	NV	NT	-1000.00	-0.172563	20	PASS
			LV	NT	-1000.00	-0.172563	20	PASS
			HV	NT	-1000.00	-0.172563	20	PASS
11AC80C DD	Ant1	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant2	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS

	Ant1	5775	HV	NT	-28000.00	-5.374280	20	PASS
			NV	NT	-19000.00	-3.290043	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
	Ant2	5775	HV	NT	-18000.00	-3.116883	20	PASS
			NV	NT	-19000.00	-3.290043	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
11AX20C DD	Ant1	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-17000.00	-3.281853	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant2	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-19000.00	-3.667954	20	PASS
	Ant1	5200	NV	NT	-18000.00	-3.461538	20	PASS
			LV	NT	-18000.00	-3.461538	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant1	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-6000.00	-1.044386	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant2	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	NT	-4000.00	-0.691443	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	NT	-1000.00	-0.172861	20	PASS
			LV	NT	-2000.00	-0.345722	20	PASS
			HV	NT	-3000.00	-0.518583	20	PASS

	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-3000.00	-0.515021	20	PASS
			HV	NT	-2000.00	-0.343348	20	PASS
	Ant2	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-1000.00	-0.171674	20	PASS
11AX40C DD	Ant1	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant2	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant1	5230	NV	NT	-18000.00	-3.441683	20	PASS
			LV	NT	-18000.00	-3.441683	20	PASS
			HV	NT	-18000.00	-3.441683	20	PASS
	Ant2	5230	NV	NT	-18000.00	-3.441683	20	PASS
			LV	NT	-18000.00	-3.441683	20	PASS
			HV	NT	-18000.00	-3.441683	20	PASS
	Ant1	5755	NV	NT	-12000.00	-2.085143	20	PASS
			LV	NT	-11000.00	-1.911381	20	PASS
			HV	NT	-12000.00	-2.085143	20	PASS
	Ant2	5755	NV	NT	-7000.00	-1.216334	20	PASS
			LV	NT	-7000.00	-1.216334	20	PASS
			HV	NT	-7000.00	-1.216334	20	PASS
	Ant1	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-2000.00	-0.345125	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
	Ant2	5795	NV	NT	-3000.00	-0.517688	20	PASS
			LV	NT	-3000.00	-0.517688	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
11AX80C DD	Ant1	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant2	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant1	5775	NV	NT	-20000.00	-3.463203	20	PASS

			LV	NT	-20000.00	-3.463203	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS
	Ant2	5775	NV	NT	-19000.00	-3.290043	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS

Voltage								
Test Mode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-29000.00	-5.598456	20	PASS
			LV	NT	-27000.00	-5.212355	20	PASS
			HV	NT	-26000.00	-5.019305	20	PASS
	Ant2	5180	NV	NT	-19000.00	-3.667954	20	PASS
			LV	NT	-19000.00	-3.667954	20	PASS
			HV	NT	-19000.00	-3.667954	20	PASS
	Ant1	5200	NV	NT	-21000.00	-4.038462	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-18000.00	-3.461538	20	PASS
	Ant2	5200	NV	NT	-18000.00	-3.461538	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant1	5240	NV	NT	-19000.00	-3.625954	20	PASS
			LV	NT	-19000.00	-3.625954	20	PASS
			HV	NT	-19000.00	-3.625954	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant1	5745	NV	NT	-27000.00	-4.699739	20	PASS
			LV	NT	-23000.00	-4.003481	20	PASS
			HV	NT	-22000.00	-3.829417	20	PASS
	Ant2	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-6000.00	-1.044386	20	PASS
			HV	NT	-6000.00	-1.044386	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-6000.00	-1.037165	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-5000.00	-0.864304	20	PASS

			LV	NT	-3000.00	-0.518583	20	PASS	
			HV	NT	-3000.00	-0.518583	20	PASS	
	Ant1	5825	NV	NT	-5000.00	-0.858369	20	PASS	
			LV	NT	-3000.00	-0.515021	20	PASS	
			HV	NT	-2000.00	-0.343348	20	PASS	
	Ant2	5825	NV	NT	-1000.00	-0.171674	20	PASS	
			LV	NT	0.00	0.000000	20	PASS	
			HV	NT	0.00	0.000000	20	PASS	
11N20SISO	Ant1	5180	NV	NT	-22000.00	-4.247104	20	PASS	
			LV	NT	-22000.00	-4.247104	20	PASS	
			HV	NT	-22000.00	-4.247104	20	PASS	
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS	
			LV	NT	-19000.00	-3.667954	20	PASS	
			HV	NT	-19000.00	-3.667954	20	PASS	
	Ant1	5200	NV	NT	-19000.00	-3.653846	20	PASS	
			LV	NT	-18000.00	-3.461538	20	PASS	
			HV	NT	-18000.00	-3.461538	20	PASS	
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS	
			LV	NT	-18000.00	-3.461538	20	PASS	
			HV	NT	-18000.00	-3.461538	20	PASS	
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS	
			LV	NT	-17000.00	-3.244275	20	PASS	
			HV	NT	-18000.00	-3.435115	20	PASS	
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS	
			LV	NT	-17000.00	-3.244275	20	PASS	
			HV	NT	-17000.00	-3.244275	20	PASS	
	Ant1	5745	NV	NT	-12000.00	-2.088773	20	PASS	
			LV	NT	-10000.00	-1.740644	20	PASS	
			HV	NT	-9000.00	-1.566580	20	PASS	
	Ant2	5745	NV	NT	-6000.00	-1.044386	20	PASS	
			LV	NT	-5000.00	-0.870322	20	PASS	
			HV	NT	-6000.00	-1.044386	20	PASS	
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS	
			LV	NT	-5000.00	-0.864304	20	PASS	
			HV	NT	-6000.00	-1.037165	20	PASS	
	Ant2	5785	NV	NT	-3000.00	-0.518583	20	PASS	
			LV	NT	-3000.00	-0.518583	20	PASS	

	Ant1	5825	HV	NT	-2000.00	-0.345722	20	PASS
			NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-3000.00	-0.515021	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	NT	-5000.00	-0.963391	20	PASS
			LV	NT	-8000.00	-1.541426	20	PASS
			HV	NT	-9000.00	-1.734104	20	PASS
	Ant2	5190	NV	NT	-17000.00	-3.275530	20	PASS
			LV	NT	-18000.00	-3.468208	20	PASS
			HV	NT	-18000.00	-3.468208	20	PASS
	Ant1	5230	NV	NT	-20000.00	-3.824092	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant2	5230	NV	NT	-22000.00	-4.206501	20	PASS
			LV	NT	-21000.00	-4.015296	20	PASS
			HV	NT	-21000.00	-4.015296	20	PASS
	Ant1	5755	NV	NT	-21000.00	-3.649001	20	PASS
			LV	NT	-15000.00	-2.606429	20	PASS
			HV	NT	-13000.00	-2.258905	20	PASS
	Ant2	5755	NV	NT	-3000.00	-0.521286	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant1	5795	NV	NT	-7000.00	-1.207938	20	PASS
			LV	NT	-6000.00	-1.035375	20	PASS
			HV	NT	-6000.00	-1.035375	20	PASS
	Ant2	5795	NV	NT	-5000.00	-0.862813	20	PASS
			LV	NT	-4000.00	-0.690250	20	PASS
			HV	NT	-4000.00	-0.690250	20	PASS
11AC20SISO O	Ant1	5180	NV	NT	-21000.00	-4.054054	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-28000.00	-5.405405	20	PASS
			LV	NT	-26000.00	-5.019305	20	PASS
			HV	NT	-24000.00	-4.633205	20	PASS

	Ant1	5200	NV	NT	-18000.00	-3.461538	20	PASS
			LV	NT	-17000.00	-3.269231	20	PASS
			HV	NT	-18000.00	-3.461538	20	PASS
	Ant2	5200	NV	NT	-22000.00	-4.230769	20	PASS
			LV	NT	-23000.00	-4.423077	20	PASS
			HV	NT	-23000.00	-4.423077	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-18000.00	-3.435115	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-7000.00	-1.218451	20	PASS
			LV	NT	-7000.00	-1.218451	20	PASS
			HV	NT	-7000.00	-1.218451	20	PASS
	Ant2	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant1	5785	NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-3000.00	-0.518583	20	PASS
			LV	NT	-2000.00	-0.345722	20	PASS
			HV	NT	-2000.00	-0.345722	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-1000.00	-0.171674	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	1000.00	0.171674	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-15000.00	-2.890173	20	PASS
			LV	NT	-15000.00	-2.890173	20	PASS
			HV	NT	-15000.00	-2.890173	20	PASS
	Ant2	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant1	5230	NV	NT	-19000.00	-3.632887	20	PASS

			LV	NT	-18000.00	-3.441683	20	PASS
			HV	NT	-18000.00	-3.441683	20	PASS
			NV	NT	-19000.00	-3.632887	20	PASS
	Ant2	5230	LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
			NV	NT	-7000.00	-1.216334	20	PASS
	Ant1	5755	LV	NT	-6000.00	-1.042572	20	PASS
			HV	NT	-6000.00	-1.042572	20	PASS
			NV	NT	-3000.00	-0.521286	20	PASS
	Ant2	5755	LV	NT	-2000.00	-0.347524	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
			NV	NT	-6000.00	-1.035375	20	PASS
	Ant1	5795	LV	NT	-7000.00	-1.207938	20	PASS
			HV	NT	-6000.00	-1.035375	20	PASS
			NV	NT	-2000.00	-0.345125	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-19000.00	-3.646833	20	PASS
			LV	NT	-22000.00	-4.222649	20	PASS
			HV	NT	-23000.00	-4.414587	20	PASS
	Ant2	5210	NV	NT	-27000.00	-5.182342	20	PASS
			LV	NT	-27000.00	-5.182342	20	PASS
			HV	NT	-27000.00	-5.182342	20	PASS
	Ant1	5775	NV	NT	-7000.00	-1.212121	20	PASS
			LV	NT	-10000.00	-1.731602	20	PASS
			HV	NT	-11000.00	-1.904762	20	PASS
	Ant2	5775	NV	NT	-17000.00	-2.943723	20	PASS
			LV	NT	-17000.00	-2.943723	20	PASS
			HV	NT	-17000.00	-2.943723	20	PASS
11AX20SIS O	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant1	5200	NV	NT	-17000.00	-3.269231	20	PASS
			LV	NT	-18000.00	-3.461538	20	PASS

	Ant2	5200	HV	NT	-19000.00	-3.653846	20	PASS
			NV	NT	-24000.00	-4.615385	20	PASS
			LV	NT	-24000.00	-4.615385	20	PASS
			HV	NT	-23000.00	-4.423077	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-18000.00	-3.435115	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-6000.00	-1.044386	20	PASS
	Ant2	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-6000.00	-1.044386	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-5000.00	-0.864304	20	PASS
			HV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	NT	-2000.00	-0.345722	20	PASS
			LV	NT	-3000.00	-0.518583	20	PASS
			HV	NT	-2000.00	-0.345722	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-1000.00	-0.171674	20	PASS
	Ant2	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AX40SIS O	Ant1	5190	NV	NT	-17000.00	-3.275530	20	PASS
			LV	NT	-17000.00	-3.275530	20	PASS
			HV	NT	-17000.00	-3.275530	20	PASS
	Ant2	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant1	5230	NV	NT	-17000.00	-3.250478	20	PASS
			LV	NT	-17000.00	-3.250478	20	PASS
			HV	NT	-17000.00	-3.250478	20	PASS

	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant1	5755	NV	NT	-3000.00	-0.521286	20	PASS
			LV	NT	-3000.00	-0.521286	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant2	5755	NV	NT	-3000.00	-0.521286	20	PASS
			LV	NT	-2000.00	-0.347524	20	PASS
			HV	NT	-2000.00	-0.347524	20	PASS
	Ant1	5795	NV	NT	-5000.00	-0.862813	20	PASS
			LV	NT	-6000.00	-1.035375	20	PASS
			HV	NT	-6000.00	-1.035375	20	PASS
	Ant2	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-2000.00	-0.345125	20	PASS
			HV	NT	-1000.00	-0.172563	20	PASS
11AX80SIS O	Ant1	5210	NV	NT	-26000.00	-4.990403	20	PASS
			LV	NT	-26000.00	-4.990403	20	PASS
			HV	NT	-26000.00	-4.990403	20	PASS
	Ant2	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant1	5775	NV	NT	-16000.00	-2.770563	20	PASS
			LV	NT	-16000.00	-2.770563	20	PASS
			HV	NT	-16000.00	-2.770563	20	PASS
	Ant2	5775	NV	NT	-18000.00	-3.116883	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS
11N20CDD	Ant1	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-17000.00	-3.281853	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant1	5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS

			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-20000.00	-3.846154	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-16000.00	-3.053435	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant2	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-7000.00	-1.218451	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	NT	-6000.00	-1.037165	20	PASS
			LV	NT	-6000.00	-1.037165	20	PASS
			HV	NT	-6000.00	-1.037165	20	PASS
	Ant2	5785	NV	NT	-4000.00	-0.691443	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-3000.00	-0.518583	20	PASS
	Ant1	5825	NV	NT	-2000.00	-0.343348	20	PASS
			LV	NT	-2000.00	-0.343348	20	PASS
			HV	NT	-2000.00	-0.343348	20	PASS
	Ant2	5825	NV	NT	-2000.00	-0.343348	20	PASS
			LV	NT	-2000.00	-0.343348	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11N40CDD	Ant1	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant2	5190	NV	NT	-20000.00	-3.853565	20	PASS
			LV	NT	-20000.00	-3.853565	20	PASS
			HV	NT	-21000.00	-4.046243	20	PASS
	Ant1	5230	NV	NT	-17000.00	-3.250478	20	PASS
			LV	NT	-17000.00	-3.250478	20	PASS
			HV	NT	-16000.00	-3.059273	20	PASS
	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS

	Ant1	5755	HV	NT	-19000.00	-3.632887	20	PASS
			NV	NT	-4000.00	-0.695048	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant2	5755	NV	NT	-5000.00	-0.868810	20	PASS
			LV	NT	-4000.00	-0.695048	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant1	5795	NV	NT	-3000.00	-0.517688	20	PASS
			LV	NT	-3000.00	-0.517688	20	PASS
			HV	NT	-4000.00	-0.690250	20	PASS
	Ant2	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-4000.00	-0.690250	20	PASS
			HV	NT	-3000.00	-0.517688	20	PASS
11AC20CD D	Ant1	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-17000.00	-3.281853	20	PASS
	Ant2	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-18000.00	-3.474903	20	PASS
			HV	NT	-17000.00	-3.281853	20	PASS
	Ant1	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-18000.00	-3.435115	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant1	5745	NV	NT	-5000.00	-0.870322	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS
	Ant2	5745	NV	NT	-5000.00	-0.870322	20	PASS
			LV	NT	-4000.00	-0.696258	20	PASS
			HV	NT	-4000.00	-0.696258	20	PASS

	Ant1	5785	NV	NT	-5000.00	-0.864304	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-5000.00	-0.864304	20	PASS
	Ant2	5785	NV	NT	-4000.00	-0.691443	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS
			HV	NT	-4000.00	-0.691443	20	PASS
	Ant1	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
	Ant2	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	0.00	0.000000	20	PASS
11AC40CD D	Ant1	5190	NV	NT	-20000.00	-3.853565	20	PASS
			LV	NT	-20000.00	-3.853565	20	PASS
			HV	NT	-20000.00	-3.853565	20	PASS
	Ant2	5190	NV	NT	-20000.00	-3.853565	20	PASS
			LV	NT	-20000.00	-3.853565	20	PASS
			HV	NT	-20000.00	-3.853565	20	PASS
	Ant1	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant2	5230	NV	NT	-19000.00	-3.632887	20	PASS
			LV	NT	-19000.00	-3.632887	20	PASS
			HV	NT	-19000.00	-3.632887	20	PASS
	Ant1	5755	NV	NT	-4000.00	-0.695048	20	PASS
			LV	NT	-3000.00	-0.521286	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant2	5755	NV	NT	-4000.00	-0.695048	20	PASS
			LV	NT	-5000.00	-0.868810	20	PASS
			HV	NT	-4000.00	-0.695048	20	PASS
	Ant1	5795	NV	NT	-1000.00	-0.172563	20	PASS
			LV	NT	-2000.00	-0.345125	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
	Ant2	5795	NV	NT	-1000.00	-0.172563	20	PASS
			LV	NT	-1000.00	-0.172563	20	PASS
			HV	NT	-1000.00	-0.172563	20	PASS
11AC80CD	Ant1	5210	NV	NT	-28000.00	-5.374280	20	PASS

D			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant2	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant1	5775	NV	NT	-19000.00	-3.290043	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
			HV	NT	-18000.00	-3.116883	20	PASS
	Ant2	5775	NV	NT	-19000.00	-3.290043	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS
11AX20CD D	Ant1	5180	NV	NT	-18000.00	-3.474903	20	PASS
			LV	NT	-17000.00	-3.281853	20	PASS
			HV	NT	-18000.00	-3.474903	20	PASS
	Ant2	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-19000.00	-3.667954	20	PASS
	Ant1	5200	NV	NT	-18000.00	-3.461538	20	PASS
			LV	NT	-18000.00	-3.461538	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant2	5200	NV	NT	-19000.00	-3.653846	20	PASS
			LV	NT	-19000.00	-3.653846	20	PASS
			HV	NT	-19000.00	-3.653846	20	PASS
	Ant1	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-18000.00	-3.435115	20	PASS
	Ant2	5240	NV	NT	-17000.00	-3.244275	20	PASS
			LV	NT	-17000.00	-3.244275	20	PASS
			HV	NT	-17000.00	-3.244275	20	PASS
	Ant1	5745	NV	NT	-6000.00	-1.044386	20	PASS
			LV	NT	-6000.00	-1.044386	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant2	5745	NV	NT	-4000.00	-0.696258	20	PASS
			LV	NT	-5000.00	-0.870322	20	PASS
			HV	NT	-5000.00	-0.870322	20	PASS
	Ant1	5785	NV	NT	-4000.00	-0.691443	20	PASS
			LV	NT	-4000.00	-0.691443	20	PASS

	Ant2	5785	HV	NT	-5000.00	-0.864304	20	PASS
			NV	NT	-1000.00	-0.172861	20	PASS
			LV	NT	-2000.00	-0.345722	20	PASS
			HV	NT	-3000.00	-0.518583	20	PASS
	Ant1	5825	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-3000.00	-0.515021	20	PASS
			HV	NT	-2000.00	-0.343348	20	PASS
	Ant2	5825	NV	NT	-1000.00	-0.171674	20	PASS
			LV	NT	-1000.00	-0.171674	20	PASS
			HV	NT	-1000.00	-0.171674	20	PASS
11AX40CD D	Ant1	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant2	5190	NV	NT	-19000.00	-3.660886	20	PASS
			LV	NT	-19000.00	-3.660886	20	PASS
			HV	NT	-19000.00	-3.660886	20	PASS
	Ant1	5230	NV	NT	-18000.00	-3.441683	20	PASS
			LV	NT	-18000.00	-3.441683	20	PASS
			HV	NT	-18000.00	-3.441683	20	PASS
	Ant2	5230	NV	NT	-18000.00	-3.441683	20	PASS
			LV	NT	-18000.00	-3.441683	20	PASS
			HV	NT	-18000.00	-3.441683	20	PASS
	Ant1	5755	NV	NT	-12000.00	-2.085143	20	PASS
			LV	NT	-11000.00	-1.911381	20	PASS
			HV	NT	-12000.00	-2.085143	20	PASS
	Ant2	5755	NV	NT	-7000.00	-1.216334	20	PASS
			LV	NT	-7000.00	-1.216334	20	PASS
			HV	NT	-7000.00	-1.216334	20	PASS
	Ant1	5795	NV	NT	-2000.00	-0.345125	20	PASS
			LV	NT	-2000.00	-0.345125	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
	Ant2	5795	NV	NT	-3000.00	-0.517688	20	PASS
			LV	NT	-3000.00	-0.517688	20	PASS
			HV	NT	-2000.00	-0.345125	20	PASS
11AX80CD D	Ant1	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS

	Ant2	5210	NV	NT	-28000.00	-5.374280	20	PASS
			LV	NT	-28000.00	-5.374280	20	PASS
			HV	NT	-28000.00	-5.374280	20	PASS
	Ant1	5775	NV	NT	-20000.00	-3.463203	20	PASS
			LV	NT	-20000.00	-3.463203	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS
	Ant2	5775	NV	NT	-19000.00	-3.290043	20	PASS
			LV	NT	-19000.00	-3.290043	20	PASS
			HV	NT	-19000.00	-3.290043	20	PASS

Frequency Tolerance (ppm) = {[Measured Frequency (Hz) - Declared Frequency (Hz)] / Declared Frequency (Hz)} * 10⁶.

7.8. Radiated Spurious Emission Measurement

7.8.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

7.8.2. Test Procedure Used

KDB 789033 D02v02r01 – Section G

ANSI C63.10-2013 – Section 12.7.7.2, 12.7.7.6, 12.7.5

7.8.3. Test Setting

Peak Measurements above 1GHz

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Quasi-Peak Measurements below 1GHz

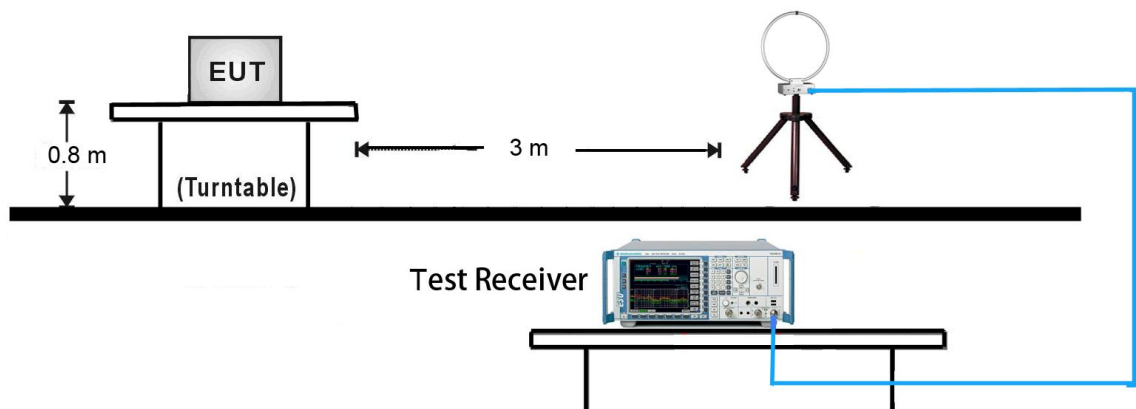
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. Span was set greater than 1MHz
3. RBW = 120 kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Average Measurements above 1GHz (Method AD)

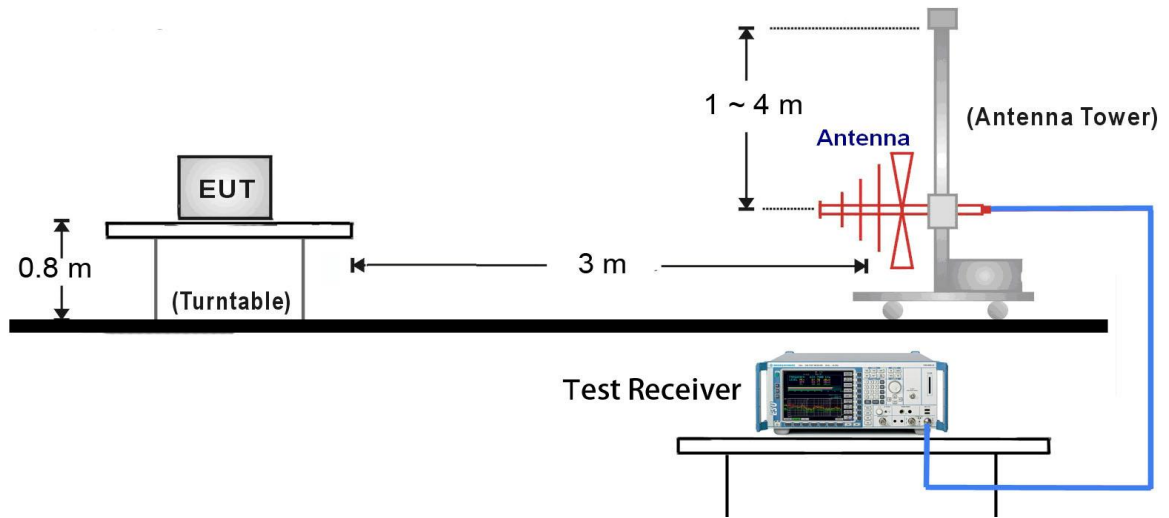
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (Average)
5. Number of measurement points = 1001 (Number of points must be $> 2 \times \text{span}/\text{RBW}$)
6. Sweep time = auto
7. Trace was averaged over at 100 sweeps

7.8.4. Test Setup

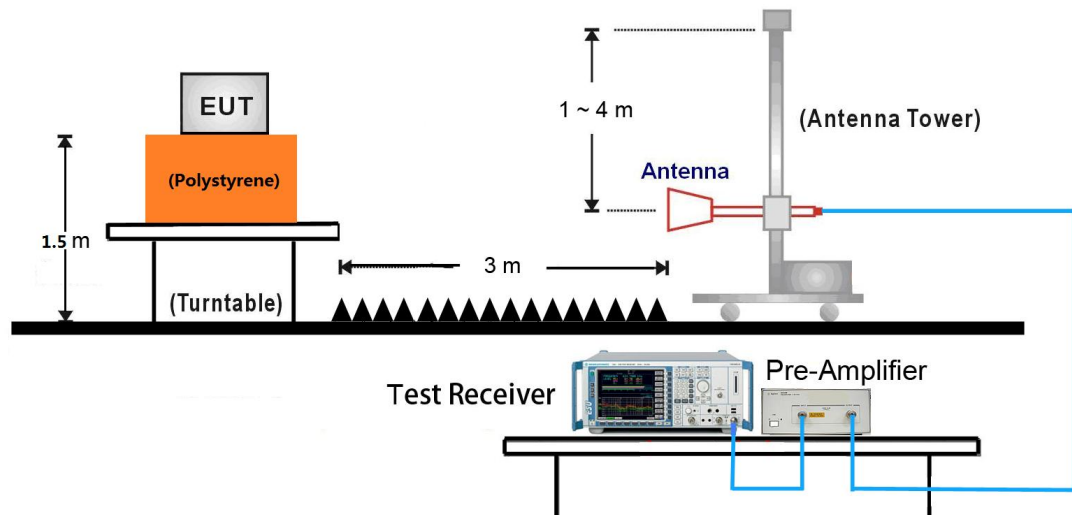
9kHz ~ 30MHz Test Setup:



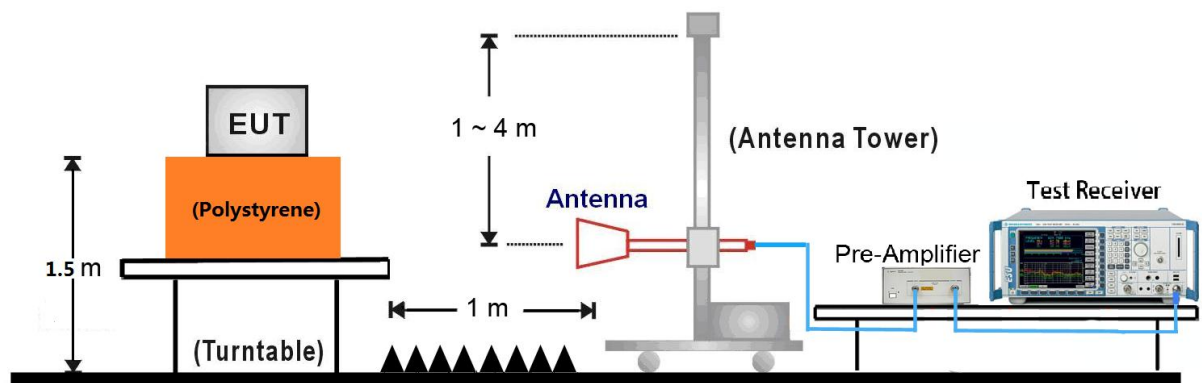
30MHz ~ 1GHz Test Setup:



1GHz ~ 18GHz Test Setup:



18GHz ~ 40GHz Test Setup:



7.8.5. Test Result

The worst case of Radiated Emission

Test Mode:	802.11ax20 - Ant 1	Test Date:	2023-02-23
Test Channel:	5180	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7550.3333	52.60	15.74	74.00	21.40	Peak	Horizontal
*	8696.5000	53.26	16.55	79.96	26.70	Peak	Horizontal
*	9835.0000	55.62	18.66	79.96	24.34	Peak	Horizontal
	10873.8333	57.19	19.28	74.00	16.81	Peak	Horizontal
	7676.8333	52.90	15.47	74.00	21.10	Peak	Vertical
*	8968.6667	53.62	16.40	79.96	26.34	Peak	Vertical
*	9842.6667	55.21	18.72	79.96	24.75	Peak	Vertical
	10716.6667	56.33	19.67	74.00	17.67	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.96dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 2	Test Date:	2023-02-23
Test Channel:	5180	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7305.0000	53.30	15.47	74.00	20.70	Peak	Horizontal
*	8922.6667	53.84	16.31	77.80	23.96	Peak	Horizontal
*	9919.3333	55.21	18.20	77.80	22.59	Peak	Horizontal
	12200.1667	58.28	20.03	74.00	15.72	Peak	Horizontal
	7374.0000	52.54	15.74	74.00	21.46	Peak	Vertical
*	8815.3333	52.50	16.56	77.80	25.30	Peak	Vertical
*	9877.1667	55.44	18.48	77.80	22.36	Peak	Vertical
	11046.3333	57.00	19.69	74.00	17.00	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.80dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - CDD	Test Date:	2023-02-23
Test Channel:	5180	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7362.5000	53.03	15.63	74.00	20.97	Peak	Horizontal
*	8685.0000	53.71	16.34	83.89	30.18	Peak	Horizontal
*	10118.6667	55.16	18.52	83.89	28.73	Peak	Horizontal
	11084.6667	56.88	19.69	74.00	17.12	Peak	Horizontal
	7423.8333	52.87	15.83	74.00	21.13	Peak	Vertical
*	8941.8333	53.30	16.26	83.89	30.59	Peak	Vertical
*	9957.6667	55.32	18.08	83.89	28.57	Peak	Vertical
	11307.0000	57.52	19.72	74.00	16.48	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.89dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 1	Test Date:	2023-02-23
Test Channel:	5200	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7412.3333	53.00	15.91	74.00	21.00	Peak	Horizontal
*	8608.3333	52.80	15.72	80.21	27.41	Peak	Horizontal
*	9900.1667	54.87	18.24	80.21	25.34	Peak	Horizontal
	10942.8333	57.25	19.41	74.00	16.75	Peak	Horizontal
	7619.3333	53.06	15.65	74.00	20.94	Peak	Vertical
*	8604.5000	53.18	15.72	80.21	27.03	Peak	Vertical
*	9877.1667	55.88	18.48	80.21	24.33	Peak	Vertical
	10969.6667	57.01	19.70	74.00	16.99	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.21dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 2	Test Date:	2023-02-23
Test Channel:	5200	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7546.5000	52.77	15.71	74.00	21.23	Peak	Horizontal
*	8899.6667	52.84	16.37	77.67	24.83	Peak	Horizontal
*	9907.8333	55.42	18.22	77.67	22.25	Peak	Horizontal
	11023.3333	56.86	19.89	74.00	17.14	Peak	Horizontal
	7627.0000	52.75	15.59	74.00	21.25	Peak	Vertical
*	8892.0000	53.46	16.35	77.67	24.21	Peak	Vertical
*	10206.8333	55.71	18.63	77.67	21.96	Peak	Vertical
	11368.3333	57.05	19.33	74.00	16.95	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.67dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - CDD	Test Date:	2023-02-23
Test Channel:	5200	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7550.3333	52.48	15.74	74.00	21.52	Peak	Horizontal
*	8757.8333	52.57	16.22	83.54	30.97	Peak	Horizontal
*	10256.6667	55.61	18.84	83.54	27.93	Peak	Horizontal
	11330.0000	56.41	19.57	74.00	17.59	Peak	Horizontal
	7297.3333	52.78	15.45	74.00	21.22	Peak	Vertical
*	8972.5000	52.73	16.43	83.54	30.81	Peak	Vertical
*	10076.5000	55.58	18.76	83.54	27.96	Peak	Vertical
	10969.6667	56.18	19.70	74.00	17.82	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.54dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 1	Test Date:	2023-02-23
Test Channel:	5240	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7377.8333	51.70	15.78	74.00	22.30	Peak	Horizontal
*	8696.5000	52.17	16.55	80.51	28.34	Peak	Horizontal
*	9873.3333	55.02	18.53	80.51	25.49	Peak	Horizontal
	11383.6667	56.74	19.24	74.00	17.26	Peak	Horizontal
	7366.3333	51.77	15.67	74.00	22.23	Peak	Vertical
*	8949.5000	53.57	16.24	80.51	26.94	Peak	Vertical
*	9835.0000	54.81	18.66	80.51	25.70	Peak	Vertical
	11291.6667	56.19	19.71	74.00	17.81	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.51dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 2	Test Date:	2023-02-23
Test Channel:	5240	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7581.0000	52.42	15.77	74.00	21.58	Peak	Horizontal
*	8815.3333	51.60	16.56	77.57	25.97	Peak	Horizontal
*	9873.3333	54.88	18.53	77.57	22.69	Peak	Horizontal
	10670.6667	56.49	19.58	74.00	17.51	Peak	Horizontal
	7554.1667	52.18	15.74	74.00	21.82	Peak	Vertical
*	8715.6667	52.14	16.46	77.57	25.43	Peak	Vertical
*	9831.1667	54.78	18.63	77.57	22.79	Peak	Vertical
	11510.1667	56.27	19.39	74.00	17.73	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.57dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - CDD	Test Date:	2023-02-23
Test Channel:	5240	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7381.6667	51.85	15.82	74.00	22.15	Peak	Horizontal
*	8715.6667	52.25	16.46	83.36	31.11	Peak	Horizontal
*	9865.6667	55.01	18.61	83.36	28.35	Peak	Horizontal
	10739.6667	56.64	19.43	74.00	17.36	Peak	Horizontal
	7561.8333	52.19	15.75	74.00	21.81	Peak	Vertical
*	8696.5000	52.34	16.55	83.36	31.02	Peak	Vertical
*	9838.8333	54.59	18.69	83.36	28.77	Peak	Vertical
	10724.3333	57.28	19.59	74.00	16.72	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.36dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 1	Test Date:	2023-02-23
Test Channel:	5745	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7412.3333	52.12	15.91	74.00	21.88	Peak	Horizontal
*	8677.3333	52.06	16.20	81.07	29.01	Peak	Horizontal
*	9846.5000	55.51	18.75	81.07	25.56	Peak	Horizontal
	11356.8333	56.93	19.40	74.00	17.07	Peak	Horizontal
	7427.6667	53.25	15.80	74.00	20.75	Peak	Vertical
*	8980.1667	54.23	16.50	81.07	26.84	Peak	Vertical
*	9900.1667	55.60	18.24	81.07	25.47	Peak	Vertical
	10862.3333	57.20	19.31	74.00	16.80	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.07dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 2	Test Date:	2023-02-23
Test Channel:	5745	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7362.5000	52.98	15.63	74.00	21.02	Peak	Horizontal
*	8692.6667	53.32	16.48	77.72	24.40	Peak	Horizontal
*	9800.5000	55.24	18.39	77.72	22.48	Peak	Horizontal
	10632.3333	57.49	19.29	74.00	16.51	Peak	Horizontal
	7492.8333	52.86	15.40	74.00	21.14	Peak	Vertical
*	8669.6667	52.26	16.07	77.72	25.46	Peak	Vertical
*	9942.3333	55.43	18.15	77.72	22.29	Peak	Vertical
	11318.5000	57.44	19.64	74.00	16.56	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.72dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - CDD	Test Date:	2023-02-23
Test Channel:	5745	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7408.5000	52.61	15.93	74.00	21.39	Peak	Horizontal
*	8018.0000	52.29	15.77	83.49	31.20	Peak	Horizontal
*	9823.5000	55.09	18.57	83.49	28.40	Peak	Horizontal
	11437.3333	56.47	19.44	74.00	17.53	Peak	Horizontal
	7420.0000	52.18	15.86	74.00	21.82	Peak	Vertical
*	8037.1667	52.78	15.79	83.49	30.71	Peak	Vertical
*	9904.0000	55.08	18.23	83.49	28.41	Peak	Vertical
	11264.8333	56.48	19.56	74.00	17.52	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.49dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 1	Test Date:	2023-02-23
Test Channel:	5785	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7416.1667	52.17	15.88	74.00	21.83	Peak	Horizontal
*	8723.3333	53.16	16.39	80.74	27.58	Peak	Horizontal
*	9865.6667	55.54	18.61	80.74	25.20	Peak	Horizontal
	11307.0000	57.25	19.72	74.00	16.75	Peak	Horizontal
	7427.6667	52.39	15.80	74.00	21.61	Peak	Vertical
*	7903.0000	52.88	15.57	80.74	27.86	Peak	Vertical
*	9973.0000	55.09	17.96	80.74	25.65	Peak	Vertical
	11103.8333	57.05	19.68	74.00	16.95	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.74dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 2	Test Date:	2023-02-23
Test Channel:	5785	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7420.0000	52.80	15.86	74.00	21.20	Peak	Horizontal
*	8964.8333	52.78	16.36	77.39	24.61	Peak	Horizontal
*	9850.3333	55.49	18.77	77.39	21.90	Peak	Horizontal
	11295.5000	57.54	19.73	74.00	16.46	Peak	Horizontal
	7320.3333	52.62	15.49	74.00	21.38	Peak	Vertical
*	8665.8333	52.63	16.00	77.39	24.76	Peak	Vertical
*	9881.0000	55.87	18.44	77.39	21.52	Peak	Vertical
	12380.3333	58.48	19.89	74.00	15.52	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.39dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - CDD	Test Date:	2023-02-23
Test Channel:	5785	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7381.6667	52.19	15.82	74.00	21.81	Peak	Horizontal
*	8696.5000	52.61	16.55	83.62	31.01	Peak	Horizontal
*	9850.3333	55.82	18.77	83.62	27.80	Peak	Horizontal
	10728.1667	57.61	19.55	74.00	16.39	Peak	Horizontal
	7408.5000	51.71	15.93	74.00	22.29	Peak	Vertical
*	7956.6667	52.83	15.64	83.62	30.79	Peak	Vertical
*	9835.0000	54.86	18.66	83.62	28.76	Peak	Vertical
	11855.1667	57.11	19.56	74.00	16.89	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.62dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 1	Test Date:	2023-02-23
Test Channel:	5825	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7661.5000	52.09	15.44	74.00	21.91	Peak	Horizontal
*	8968.6667	53.20	16.40	81.10	27.90	Peak	Horizontal
*	9888.6667	55.49	18.36	81.10	25.61	Peak	Horizontal
	11280.1667	56.97	19.64	74.00	17.03	Peak	Horizontal
	7385.5000	52.25	15.85	74.00	21.75	Peak	Vertical
*	8976.3333	53.80	16.46	81.10	27.30	Peak	Vertical
*	9850.3333	54.94	18.77	81.10	26.16	Peak	Vertical
	10705.1667	57.40	19.79	74.00	16.60	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (101.10dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - Ant 2	Test Date:	2023-02-23
Test Channel:	5825	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7316.5000	52.36	15.48	74.00	21.64	Peak	Horizontal
*	8692.6667	52.46	16.48	77.39	24.93	Peak	Horizontal
*	9896.3333	55.76	18.28	77.39	21.63	Peak	Horizontal
	11885.8333	56.69	19.94	74.00	17.31	Peak	Horizontal
	7427.6667	52.19	15.80	74.00	21.81	Peak	Vertical
*	8692.6667	52.66	16.48	77.39	24.73	Peak	Vertical
*	9892.5000	55.45	18.32	77.39	21.94	Peak	Vertical
	10663.0000	56.83	19.51	74.00	17.17	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.39dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax20 - CDD	Test Date:	2023-02-23
Test Channel:	5825	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7289.6667	51.48	15.40	74.00	22.52	Peak	Horizontal
*	8696.5000	52.74	16.55	83.29	30.55	Peak	Horizontal
*	9835.0000	55.91	18.66	83.29	27.38	Peak	Horizontal
	10988.8333	57.32	19.95	74.00	16.68	Peak	Horizontal
	7335.6667	51.75	15.50	74.00	22.25	Peak	Vertical
*	8704.1667	52.64	16.57	83.29	30.65	Peak	Vertical
*	9873.3333	55.33	18.53	83.29	27.96	Peak	Vertical
	11418.1667	56.25	19.29	74.00	17.75	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (103.29dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 1	Test Date:	2023-02-23
Test Channel:	5190	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7416.1667	52.49	15.88	74.00	21.51	Peak	Horizontal
*	8198.1667	53.52	15.64	75.06	21.54	Peak	Horizontal
*	9861.8333	54.95	18.65	75.06	20.11	Peak	Horizontal
	11418.1667	57.09	19.29	74.00	16.91	Peak	Horizontal
	7370.1667	52.74	15.71	74.00	21.26	Peak	Vertical
*	8685.0000	52.46	16.34	75.06	22.60	Peak	Vertical
*	9915.5000	56.97	18.21	75.06	18.09	Peak	Vertical
	11429.6667	56.88	19.38	74.00	17.12	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.06dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 2	Test Date:	2023-02-23
Test Channel:	5190	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7389.3333	52.47	15.89	74.00	21.53	Peak	Horizontal
*	8999.3333	53.68	16.66	74.00	20.32	Peak	Horizontal
*	10053.5000	55.44	18.68	74.00	18.56	Peak	Horizontal
	12288.3333	57.85	20.27	74.00	16.15	Peak	Horizontal
	7374.0000	51.85	15.74	74.00	22.15	Peak	Vertical
*	8961.0000	53.21	16.33	74.00	20.79	Peak	Vertical
*	9915.5000	55.17	18.21	74.00	18.83	Peak	Vertical
	11333.8333	56.68	19.54	74.00	17.32	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.35dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - CDD	Test Date:	2023-02-23
Test Channel:	5190	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7412.3333	51.88	15.91	74.00	22.12	Peak	Horizontal
*	8746.3333	52.28	16.17	80.28	28.00	Peak	Horizontal
*	9976.8333	55.02	17.93	80.28	25.26	Peak	Horizontal
	12399.5000	57.81	20.19	74.00	16.19	Peak	Horizontal
	7420.0000	52.02	15.86	74.00	21.98	Peak	Vertical
*	8976.3333	53.06	16.46	80.28	27.22	Peak	Vertical
*	9861.8333	55.06	18.65	80.28	25.22	Peak	Vertical
	12418.6667	57.51	20.23	74.00	16.49	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.28dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 1	Test Date:	2023-02-23
Test Channel:	5230	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7742.0000	51.87	15.86	74.00	22.13	Peak	Horizontal
*	8639.0000	52.17	15.72	74.83	22.66	Peak	Horizontal
*	9869.5000	54.83	18.57	74.83	20.00	Peak	Horizontal
	10965.8333	57.27	19.65	74.00	16.73	Peak	Horizontal
	7374.0000	51.67	15.74	74.00	22.33	Peak	Vertical
*	8209.6667	52.82	15.68	74.83	22.01	Peak	Vertical
*	9904.0000	55.05	18.23	74.83	19.78	Peak	Vertical
	11391.3333	57.15	19.20	74.00	16.85	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.83dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 2	Test Date:	2023-02-23
Test Channel:	5230	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7489.0000	52.34	15.42	74.00	21.66	Peak	Horizontal
*	8688.8333	52.64	16.41	74.00	21.36	Peak	Horizontal
*	9835.0000	55.13	18.66	74.00	18.87	Peak	Horizontal
	10946.6667	57.31	19.43	74.00	16.69	Peak	Horizontal
	7312.6667	52.35	15.48	74.00	21.65	Peak	Vertical
*	8991.6667	53.05	16.60	74.00	20.95	Peak	Vertical
*	9846.5000	54.84	18.75	74.00	19.16	Peak	Vertical
	11356.8333	56.45	19.40	74.00	17.55	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.65dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - CDD	Test Date:	2023-02-23
Test Channel:	5230	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7351.0000	51.88	15.52	74.00	22.12	Peak	Horizontal
*	8899.6667	52.05	16.37	80.12	28.07	Peak	Horizontal
*	9884.8333	55.12	18.40	80.12	25.00	Peak	Horizontal
	10701.3333	57.23	19.84	74.00	16.77	Peak	Horizontal
	7389.3333	52.28	15.89	74.00	21.72	Peak	Vertical
*	8711.8333	52.54	16.50	80.12	27.58	Peak	Vertical
*	9888.6667	55.29	18.36	80.12	24.83	Peak	Vertical
	11368.3333	56.90	19.33	74.00	17.10	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.12dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 1	Test Date:	2023-02-23
Test Channel:	5755	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7592.5000	51.53	15.78	74.00	22.47	Peak	Horizontal
*	8976.3333	53.29	16.46	74.67	21.38	Peak	Horizontal
*	9946.1667	55.07	18.14	74.67	19.60	Peak	Horizontal
	11372.1667	56.16	19.31	74.00	17.84	Peak	Horizontal
	7374.0000	51.79	15.74	74.00	22.21	Peak	Vertical
*	8692.6667	52.23	16.48	74.67	22.44	Peak	Vertical
*	9804.3333	55.11	18.42	74.67	19.56	Peak	Vertical
	11372.1667	57.36	19.31	74.00	16.64	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (94.67dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 2	Test Date:	2023-02-23
Test Channel:	5755	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7431.5000	52.07	15.78	74.00	21.93	Peak	Horizontal
*	8692.6667	52.22	16.48	74.00	21.78	Peak	Horizontal
*	9946.1667	55.02	18.14	74.00	18.98	Peak	Horizontal
	11836.0000	56.97	19.60	74.00	17.03	Peak	Horizontal
	7592.5000	51.75	15.78	74.00	22.25	Peak	Vertical
*	8696.5000	52.21	16.55	74.00	21.79	Peak	Vertical
*	9842.6667	56.00	18.72	74.00	18.00	Peak	Vertical
	10643.8333	56.45	19.36	74.00	17.55	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.35dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - CDD	Test Date:	2023-02-23
Test Channel:	5755	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7416.1667	51.78	15.88	74.00	22.22	Peak	Horizontal
*	8738.6667	53.35	16.24	79.46	26.11	Peak	Horizontal
*	9927.0000	54.83	18.18	79.46	24.63	Peak	Horizontal
	10705.1667	57.82	19.79	74.00	16.18	Peak	Horizontal
	7469.8333	52.04	15.54	74.00	21.96	Peak	Vertical
*	8968.6667	52.98	16.40	79.46	26.48	Peak	Vertical
*	9911.6667	54.93	18.22	79.46	24.53	Peak	Vertical
	11379.8333	56.40	19.27	74.00	17.60	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (99.46dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 1	Test Date:	2023-02-23
Test Channel:	5795	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7412.3333	51.86	15.91	74.00	22.14	Peak	Horizontal
*	8922.6667	52.20	16.31	75.38	23.18	Peak	Horizontal
*	9865.6667	55.08	18.61	75.38	20.30	Peak	Horizontal
	11050.1667	56.61	19.66	74.00	17.39	Peak	Horizontal
	8328.5000	53.57	15.60	74.00	20.43	Peak	Vertical
*	8700.3333	52.66	16.61	75.38	22.72	Peak	Vertical
*	9946.1667	54.67	18.14	75.38	20.71	Peak	Vertical
	11418.1667	56.47	19.29	74.00	17.53	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (95.38dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - Ant 2	Test Date:	2023-02-23
Test Channel:	5795	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7358.6667	51.79	15.60	74.00	22.21	Peak	Horizontal
*	8677.3333	52.79	16.20	74.00	21.21	Peak	Horizontal
*	9969.1667	54.60	17.99	74.00	19.40	Peak	Horizontal
	11391.3333	56.55	19.20	74.00	17.45	Peak	Horizontal
	7381.6667	52.29	15.82	74.00	21.71	Peak	Vertical
*	8999.3333	53.16	16.66	74.00	20.84	Peak	Vertical
*	9873.3333	55.38	18.53	74.00	18.62	Peak	Vertical
	12403.3333	57.27	20.21	74.00	16.73	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.65dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax40 - CDD	Test Date:	2023-02-23
Test Channel:	5795	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7427.6667	51.92	15.80	74.00	22.08	Peak	Horizontal
*	8976.3333	53.20	16.46	80.57	27.37	Peak	Horizontal
*	9980.6667	54.78	17.90	80.57	25.79	Peak	Horizontal
	10693.6667	57.74	19.79	74.00	16.26	Peak	Horizontal
	7408.5000	52.99	15.93	74.00	21.01	Peak	Vertical
*	8803.8333	52.24	16.65	80.57	28.33	Peak	Vertical
*	9842.6667	54.89	18.72	80.57	25.68	Peak	Vertical
	12315.1667	57.78	20.10	74.00	16.22	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (100.57dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax80 - Ant 1	Test Date:	2023-02-23
Test Channel:	5210	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7381.6667	52.28	15.82	74.00	21.72	Peak	Horizontal
*	8926.5000	53.65	16.30	74.00	20.35	Peak	Horizontal
*	9881.0000	55.35	18.44	74.00	18.65	Peak	Horizontal
	11345.3333	56.97	19.47	74.00	17.03	Peak	Horizontal
	7262.8333	52.74	15.21	74.00	21.26	Peak	Vertical
*	8754.0000	52.81	16.18	74.00	21.19	Peak	Vertical
*	9896.3333	55.11	18.28	74.00	18.89	Peak	Vertical
	12411.0000	57.58	20.22	74.00	16.42	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.85dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax80 - Ant 2	Test Date:	2023-02-23
Test Channel:	5210	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7377.8333	52.49	15.78	74.00	21.51	Peak	Horizontal
*	8692.6667	52.44	16.48	74.00	21.56	Peak	Horizontal
*	9846.5000	54.86	18.75	74.00	19.14	Peak	Horizontal
	11307.0000	57.06	19.72	74.00	16.94	Peak	Horizontal
	7354.8333	52.18	15.56	74.00	21.82	Peak	Vertical
*	8964.8333	52.69	16.36	74.00	21.31	Peak	Vertical
*	10264.3333	55.83	18.82	74.00	18.17	Peak	Vertical
	12315.1667	57.03	20.10	74.00	16.97	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.35dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax80 - CDD	Test Date:	2023-02-23
Test Channel:	5210	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7416.1667	52.50	15.88	74.00	21.50	Peak	Horizontal
*	8972.5000	54.58	16.43	76.08	21.50	Peak	Horizontal
*	9961.5000	56.34	18.05	76.08	19.74	Peak	Horizontal
	12296.0000	57.02	20.36	74.00	16.98	Peak	Horizontal
	7400.8333	52.30	15.98	74.00	21.70	Peak	Vertical
*	8742.5000	52.55	16.21	76.08	23.53	Peak	Vertical
*	10088.0000	55.22	18.80	76.08	20.86	Peak	Vertical
	12292.1667	57.36	20.31	74.00	16.64	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (96.08dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax80 - Ant 1	Test Date:	2023-02-23
Test Channel:	5775	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7385.5000	51.91	15.85	74.00	22.09	Peak	Horizontal
*	8685.0000	51.80	16.34	74.00	22.20	Peak	Horizontal
*	9846.5000	55.72	18.75	74.00	18.28	Peak	Horizontal
	11866.6667	57.04	19.70	74.00	16.96	Peak	Horizontal
	7362.5000	52.87	15.63	74.00	21.13	Peak	Vertical
*	8734.8333	52.35	16.28	74.00	21.65	Peak	Vertical
*	9953.8333	54.96	18.11	74.00	19.04	Peak	Vertical
	12299.8333	58.02	20.40	74.00	15.98	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.54dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax80 - Ant 2	Test Date:	2023-02-23
Test Channel:	5775	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7416.1667	51.87	15.88	74.00	22.13	Peak	Horizontal
*	8761.6667	52.00	16.26	74.00	22.00	Peak	Horizontal
*	10061.1667	55.00	18.70	74.00	19.00	Peak	Horizontal
	11897.3333	55.94	20.08	74.00	18.06	Peak	Horizontal
	7408.5000	52.30	15.93	74.00	21.70	Peak	Vertical
*	8688.8333	51.81	16.41	74.00	22.19	Peak	Vertical
*	9881.0000	55.28	18.44	74.00	18.72	Peak	Vertical
	12284.5000	57.76	20.23	74.00	16.24	Peak	Vertical

Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (93.65dBμV/m) or 15.209 which is higher.

Test Mode:	802.11ax80 - CDD	Test Date:	2023-02-23
Test Channel:	5775	Test Engineer:	Amos Xia
Remark:	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Mark	Frequency (MHz)	Level (dBμV)	Factor (dB)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
	7370.1667	52.21	15.71	74.00	21.79	Peak	Horizontal
*	8830.6667	52.29	16.43	77.33	25.04	Peak	Horizontal
*	9973.0000	54.94	17.96	77.33	22.39	Peak	Horizontal
	11529.3333	56.23	19.49	74.00	17.77	Peak	Horizontal
	7408.5000	52.80	15.93	74.00	21.20	Peak	Vertical
*	8692.6667	52.54	16.48	77.33	24.79	Peak	Vertical
*	9930.8333	55.71	18.18	77.33	21.62	Peak	Vertical
	12384.1667	57.50	19.95	74.00	16.50	Peak	Vertical

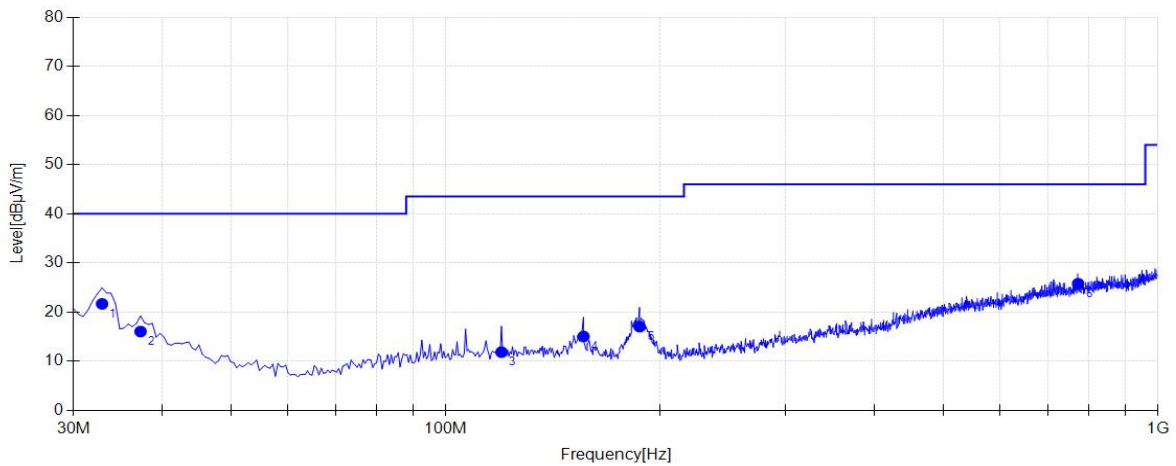
Note 1: "*" is not in restricted band, its limit is 20dBc of the fundamental emission level (97.33dBμV/m) or 15.209 which is higher.

The worst case of Radiated Emission below 1GHz:

30MHz – 1GHz Test Data

EUT:	Caper Cart M3 Android board	Polarity:	Horizontal
Model:	PCBA-CAP-CA03AN-RK39	S/N:	/
Mode:	Transmit by 802.11ax80 CDD at Channel 5775MHz	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia

Test Graph



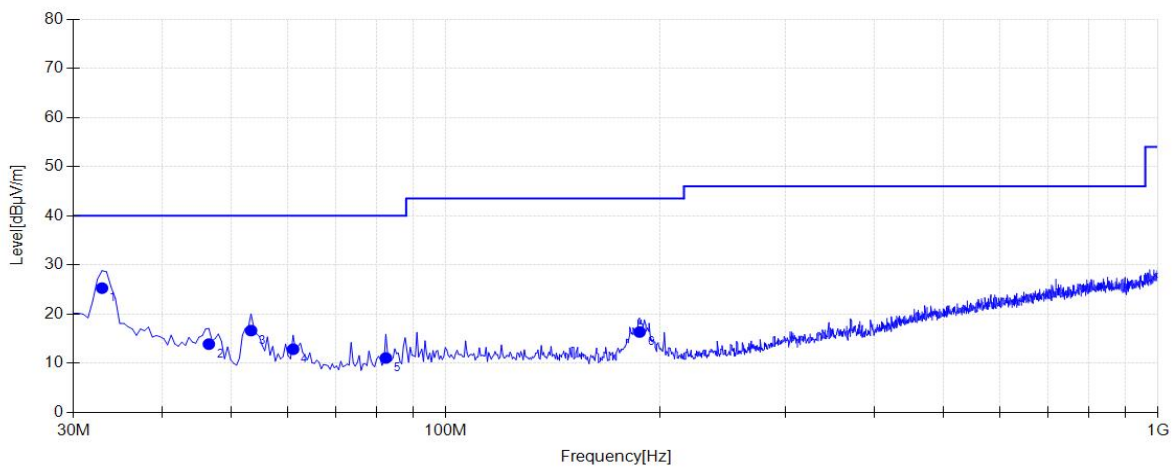
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9100	18.24	21.68	40.00	18.32	100	260	Horizontal
2	37.2750	16.02	16.06	40.00	23.94	200	275	Horizontal
3	119.725	11.64	11.86	43.50	31.64	200	177	Horizontal
4	156.100	10.53	15.05	43.50	28.45	200	184	Horizontal
5	187.140	10.36	17.05	43.50	26.45	200	156	Horizontal
6	772.535	23.10	25.79	46.00	20.21	200	5	Horizontal

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

EUT:	Caper Cart M3 Android board	Polarity:	Vertical
Model:	PCBA-CAP-CA03AN-RK39	S/N:	/
Mode:	Transmit by 802.11ax80 CDD at Channel 5775MHz	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia

Test Graph



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	32.9100	18.24	25.29	40.00	14.71	100	217	Vertical
2	46.4900	11.32	13.90	40.00	26.10	200	3	Vertical
3	53.2800	8.63	16.66	40.00	23.34	100	3	Vertical
4	61.0400	6.99	12.86	40.00	27.14	200	265	Vertical
5	82.3800	9.79	11.08	40.00	28.92	100	140	Vertical
6	187.140	10.36	16.36	43.50	27.14	100	119	Vertical

Note 1: The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.

7.9. Radiated Restricted Band Edge Measurement

7.9.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
1 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.25 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)
13.36 - 13.41	--	--	--

For RSS-Gen Section 8.10 Requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 8.10 of RSS-Gen, must also comply with the radiated emission limits specified in Section 8.9.

Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.009 ~ 0.110	240 ~ 285	9.0 ~ 9.2
2.1735 ~ 2.1905	322 ~ 335.4	9.3 ~ 9.5
3.020 ~ 3.026	399.9 ~ 410	10.6 ~ 12.7
4.125 ~ 4.128	608 ~ 614	13.25 ~ 13.4
4.17725 ~ 4.17775	960 ~ 1427	14.47 ~ 14.5
4.20725 ~ 4.20775	1435 ~ 1626.5	15.35 ~ 16.2
5.677 ~ 5.683	1645.5 ~ 1646.5	17.7 ~ 21.4
6.215 ~ 6.218	1660 ~ 1710	22.01 ~ 23.12
6.26775 ~ 6.26825	1718.8 ~1722.2	23.6 ~ 24.0
6.31175 ~ 6.31225	2200 ~ 2300	31.2 ~ 31.8
8.291 ~ 8.294	2310 ~ 2390	36.43 ~ 36.5
8.362 ~ 8.366	2655 ~ 2900	Above 38.6
8.37625 ~ 8.38675	3260 ~ 3267	--
8.41425 ~ 8.41475	3332 ~ 3339	
12.29 ~ 12.293	334.5 ~ 3358	
12.51975 ~ 12.52025	3500 ~ 4400	
12.57675 ~ 12.57725	4500 ~ 5150	
13.36 ~13.41	5350 ~ 5460	
16.42 ~ 16.423	7250 ~ 7750	
16.69475 ~ 16.69525	8025 ~ 8500	
16.80425 ~ 16.80475	--	
25.5 ~ 25.67		
37.5 ~ 38.25		
73 ~ 74.6		
74.8 ~ 75.2		
108 ~ 138		
156.52475 ~ 156.525225		
156.7 ~ 156.9		

Note: *Certain frequency bands listed in Table 6 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to the devices are set out in the 200- and 300-series of RSSs, such as RSS-210 and RSS-310, which contain the

requirements that apply to licence-exempt radio apparatus.

For 15.407(b) requirement:

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.

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.

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.

For FCC transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

For IC transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Refer to KDB 789033 D02v02r01 G)2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

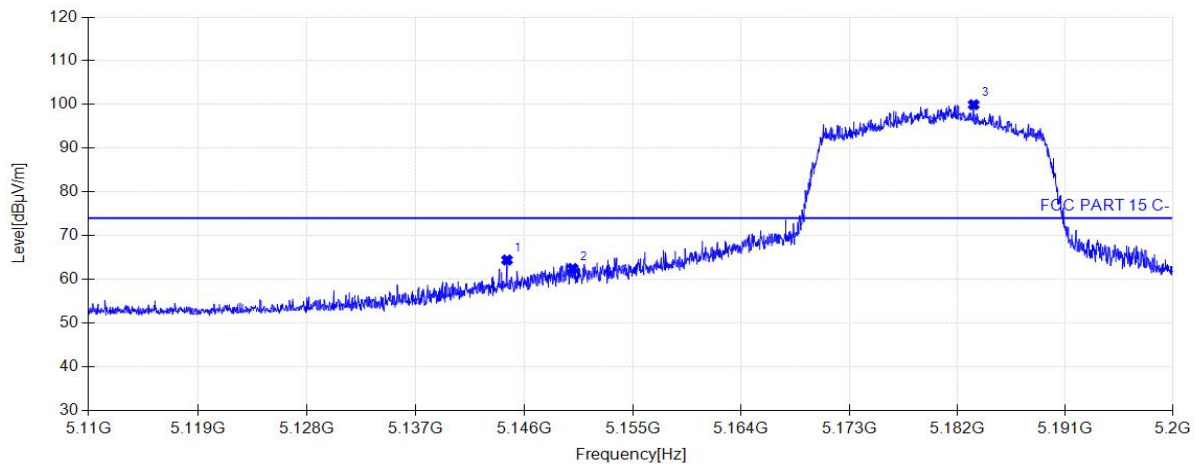
FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

7.9.2. Test Result

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5180MHz		

Start of Test:2023-02-23 16:14:59

Test Graph

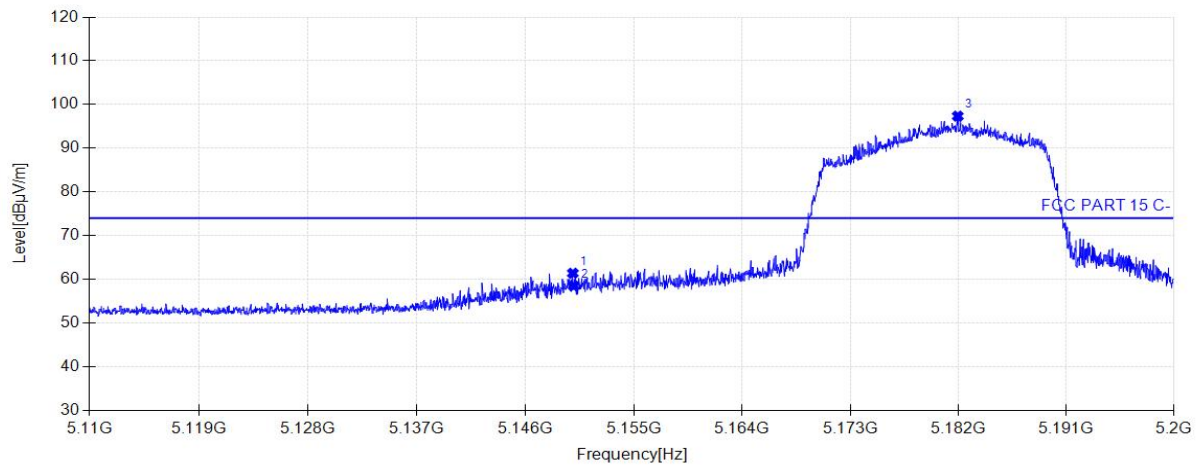


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.56	64.43	37.70	74.00	9.57	160	307	Horizontal
2	5150.00	62.48	37.72	74.00	11.52	160	307	Horizontal
3	5183.35	99.96	37.84	74.00	-25.96	160	307	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5180MHz		

Start of Test:2023-02-23 16:15:56

Test Graph

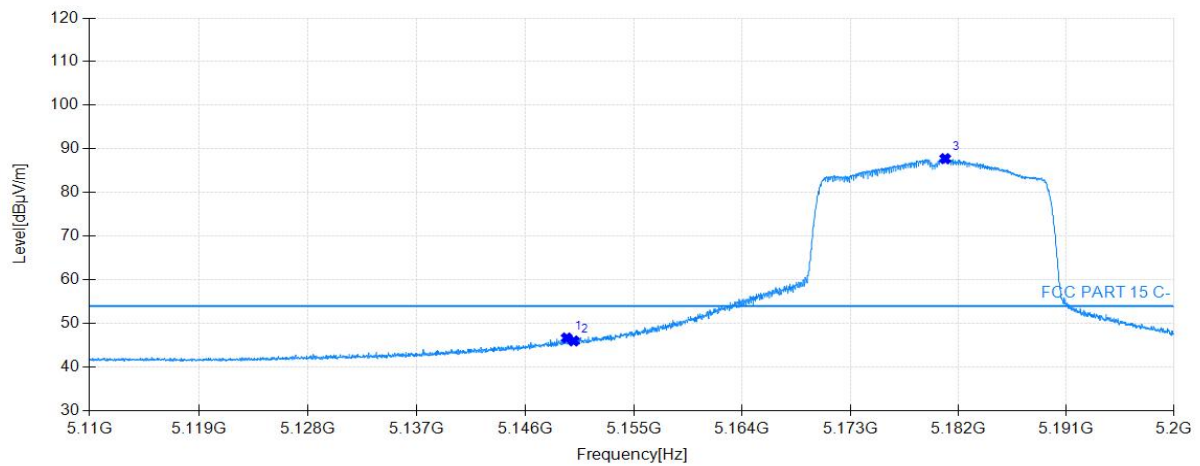


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.93	61.40	37.72	74.00	12.60	160	148	Vertical
2	5150.00	58.50	37.72	74.00	15.50	160	148	Vertical
3	5181.94	97.34	37.84	74.00	-23.34	160	126	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5180MHz		

Start of Test:2023-02-23 16:18:40

Test Graph

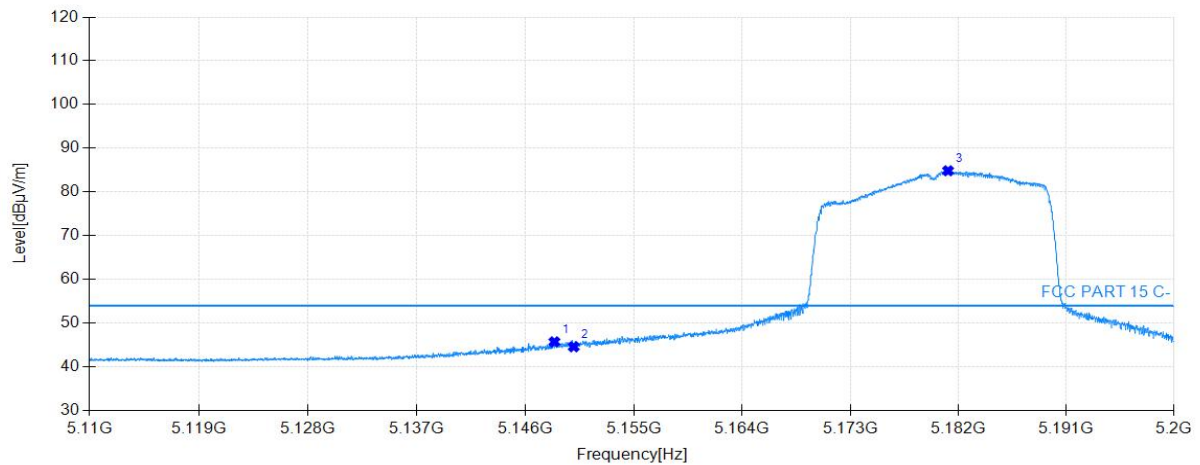


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.42	46.66	37.71	54.00	7.34	160	309	Horizontal
2	5150.00	45.98	37.72	54.00	8.02	160	309	Horizontal
3	5180.89	87.77	37.83	54.00	-33.77	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5180MHz		

Start of Test:2023-02-23 16:19:33

Test Graph

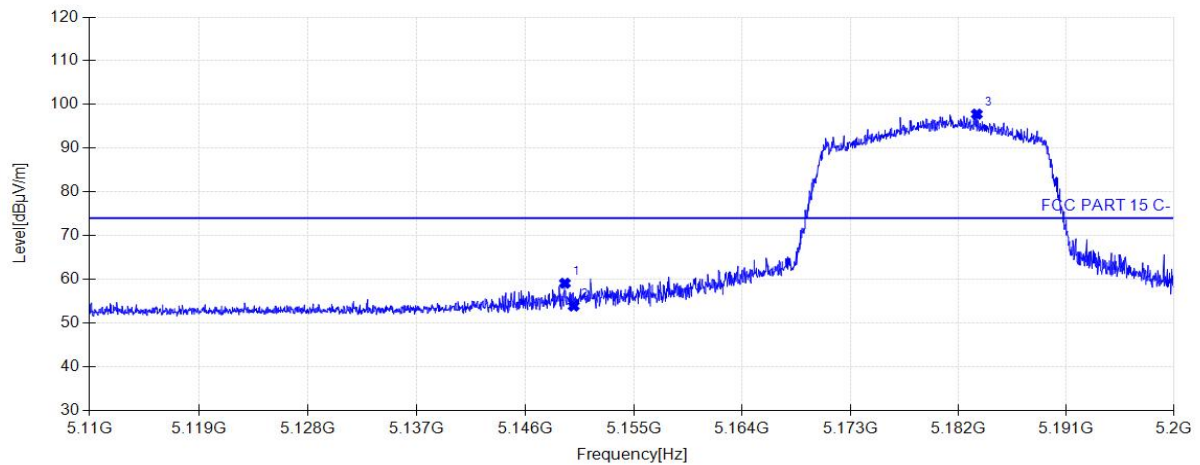


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.40	45.70	37.71	54.00	8.30	160	141	Vertical
2	5150.00	44.57	37.72	54.00	9.43	160	148	Vertical
3	5181.13	84.84	37.83	54.00	-30.84	160	134	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 2 at Channel 5180MHz		

Start of Test:2023-02-23 16:27:55

Test Graph

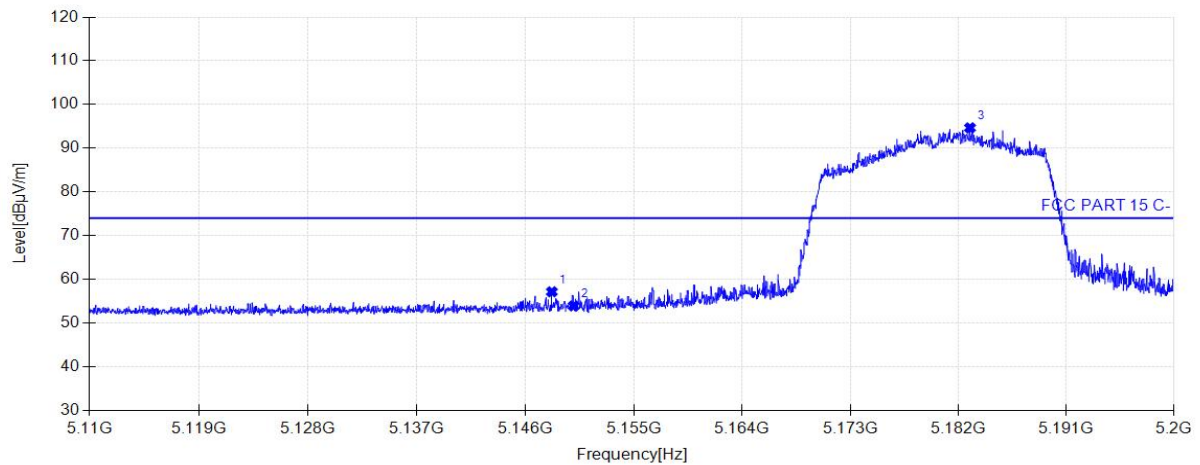


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.27	59.11	37.71	74.00	14.89	160	316	Horizontal
2	5150.00	53.89	37.72	74.00	20.11	160	295	Horizontal
3	5183.53	97.80	37.84	74.00	-23.80	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 2 at Channel 5180MHz		

Start of Test:2023-02-23 16:28:48

Test Graph

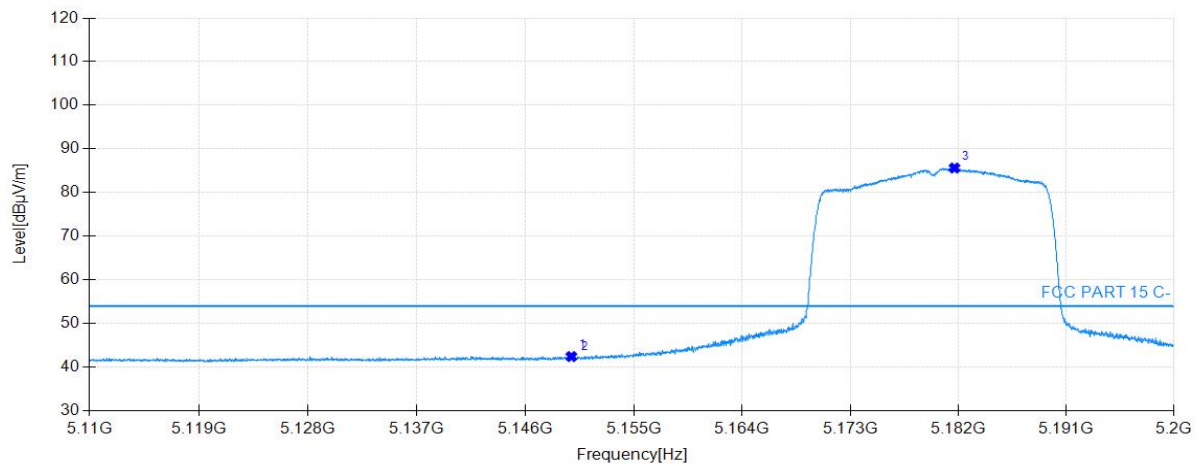


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.19	57.15	37.71	74.00	16.85	160	140	Vertical
2	5150.00	53.91	37.72	74.00	20.09	160	352	Vertical
3	5182.96	94.67	37.84	74.00	-20.67	160	127	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 2 at Channel 5180MHz		

Start of Test:2023-02-23 16:30:36

Test Graph

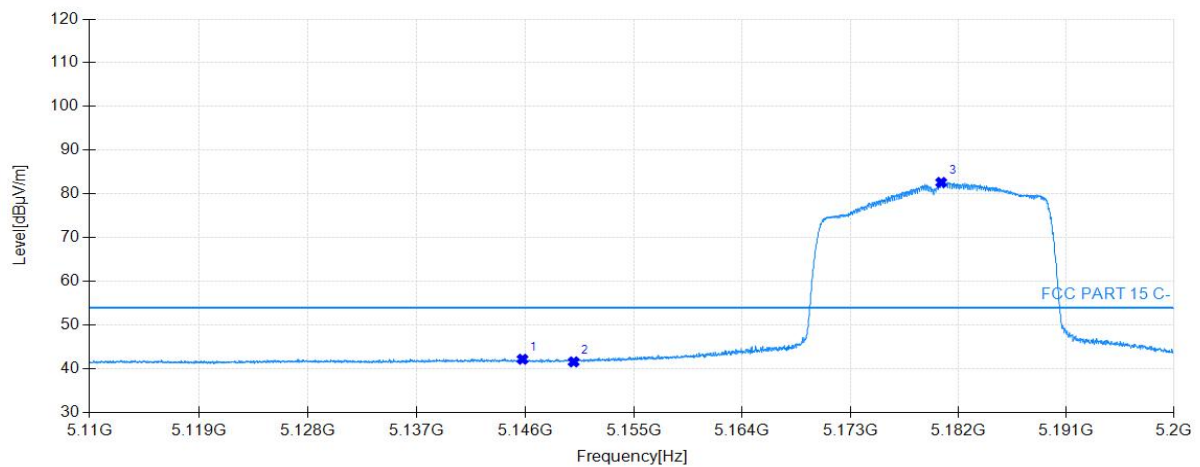


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.81	42.40	37.72	54.00	11.60	160	324	Horizontal
2	5150.00	41.89	37.72	54.00	12.11	160	128	Horizontal
3	5181.67	85.62	37.84	54.00	-31.62	160	310	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 2 at Channel 5180MHz		

Start of Test:2023-02-23 16:31:29

Test Graph

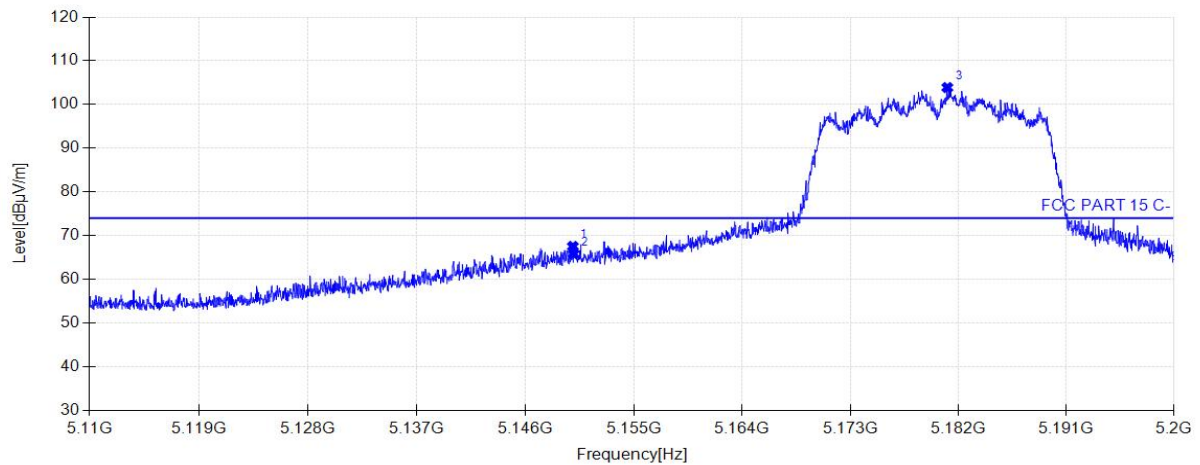


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5145.76	42.18	37.70	54.00	11.82	160	156	Vertical
2	5150.00	41.57	37.72	54.00	12.43	160	197	Vertical
3	5180.56	82.63	37.83	54.00	-28.63	160	135	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5180MHz		

Start of Test:2023-02-23 16:34:15

Test Graph

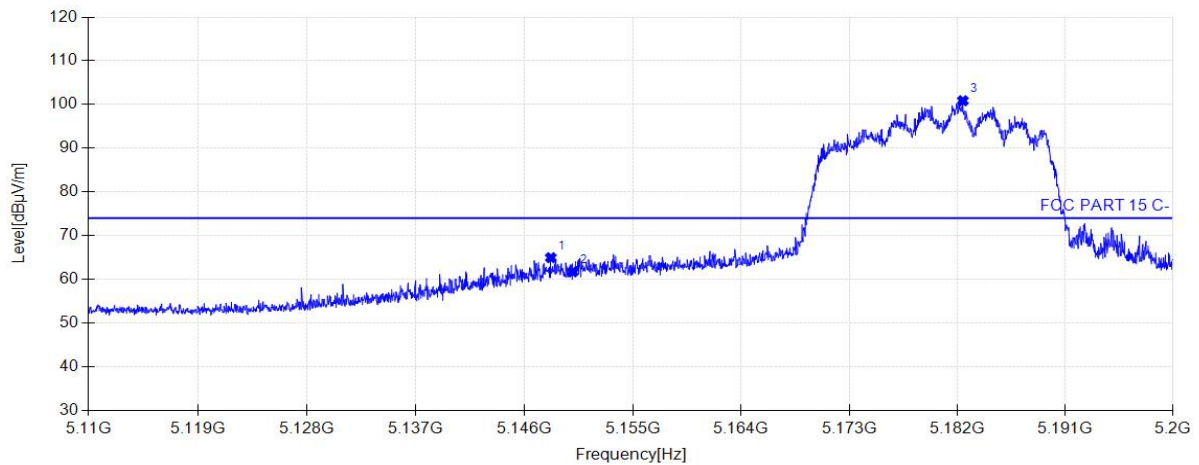


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.93	67.53	37.72	74.00	6.47	160	308	Horizontal
2	5150.00	65.83	37.72	74.00	8.17	160	308	Horizontal
3	5181.07	103.89	37.83	74.00	-29.89	160	314	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5180MHz		

Start of Test:2023-02-23 16:35:08

Test Graph

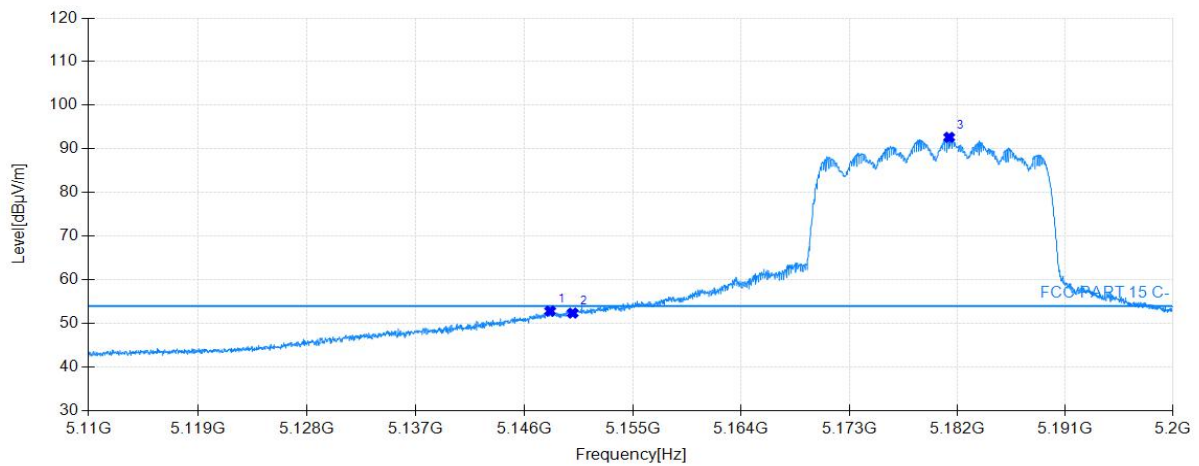


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.19	64.96	37.71	74.00	9.04	160	133	Vertical
2	5150.00	61.71	37.72	74.00	12.29	160	133	Vertical
3	5182.45	100.87	37.84	74.00	-26.87	160	133	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5180MHz		

Start of Test:2023-02-23 16:36:21

Test Graph

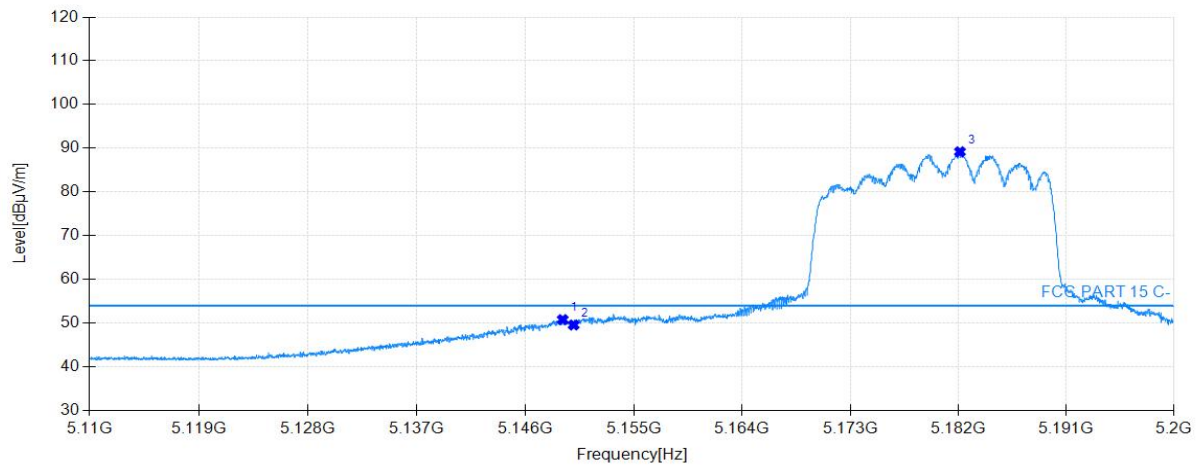


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.13	52.83	37.71	54.00	1.17	160	300	Horizontal
2	5150.00	52.37	37.72	54.00	1.63	160	300	Horizontal
3	5181.31	92.66	37.84	54.00	-38.66	160	307	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5180MHz		

Start of Test:2023-02-23 16:37:13

Test Graph

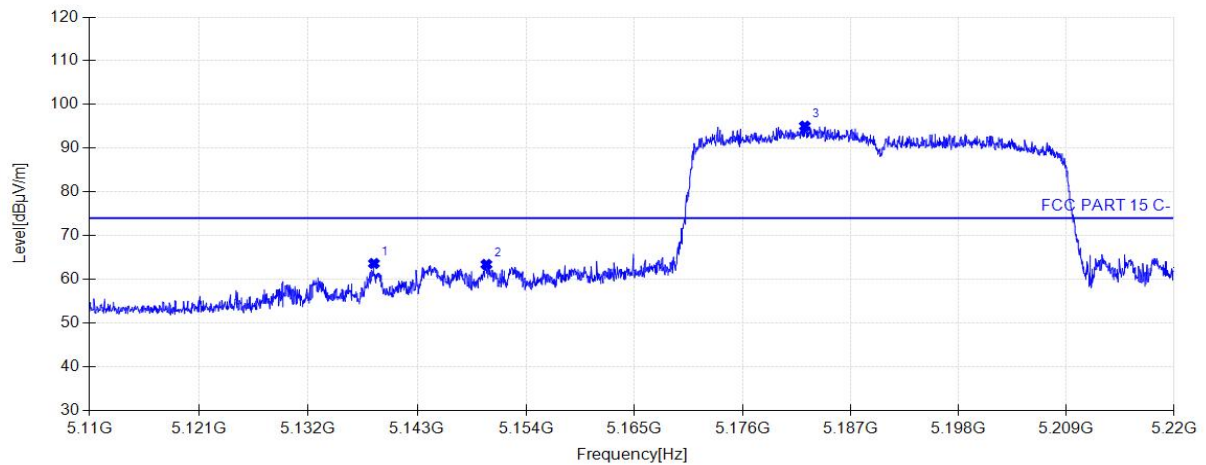


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.09	50.78	37.71	54.00	3.22	160	143	Vertical
2	5150.00	49.56	37.72	54.00	4.44	160	128	Vertical
3	5182.12	89.19	37.84	54.00	-35.19	160	136	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 1 at Channel 5190MHz		

Start of Test:2023-02-23 16:44:33

Test Graph

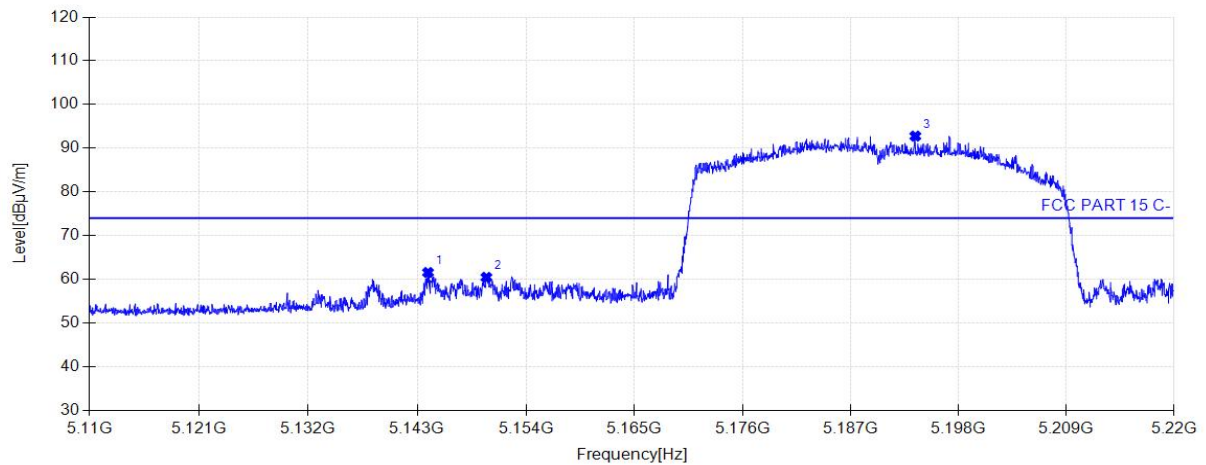


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5138.63	63.63	37.67	74.00	10.37	160	309	Horizontal
2	5150.00	63.41	37.72	74.00	10.59	160	302	Horizontal
3	5182.30	95.06	37.84	74.00	-21.06	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 1 at Channel 5190MHz		

Start of Test:2023-02-23 16:45:26

Test Graph

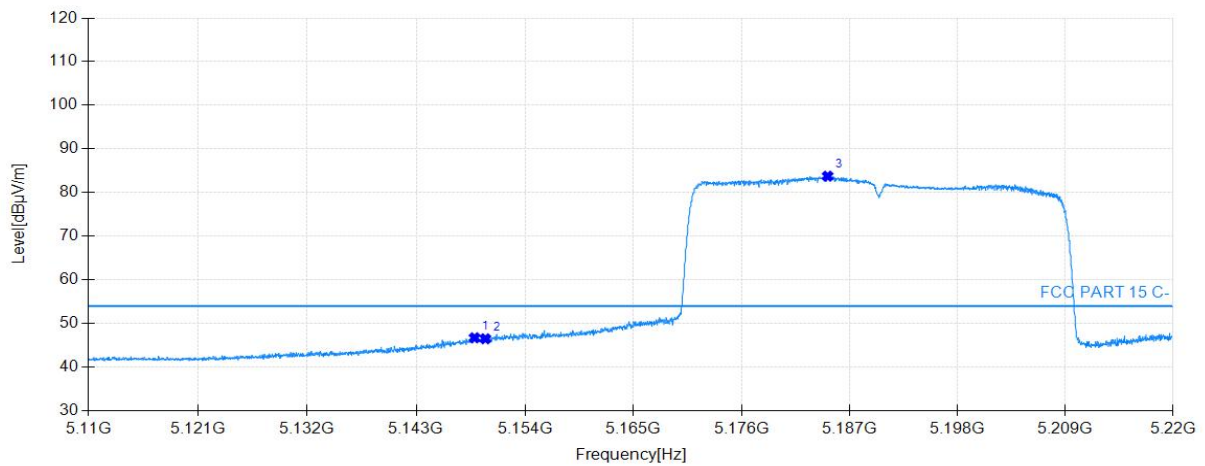


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.10	61.57	37.69	74.00	12.43	160	135	Vertical
2	5150.00	60.46	37.72	74.00	13.54	160	135	Vertical
3	5193.56	92.78	37.88	74.00	-18.78	160	135	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 1 at Channel 5190MHz		

Start of Test:2023-02-23 16:46:55

Test Graph

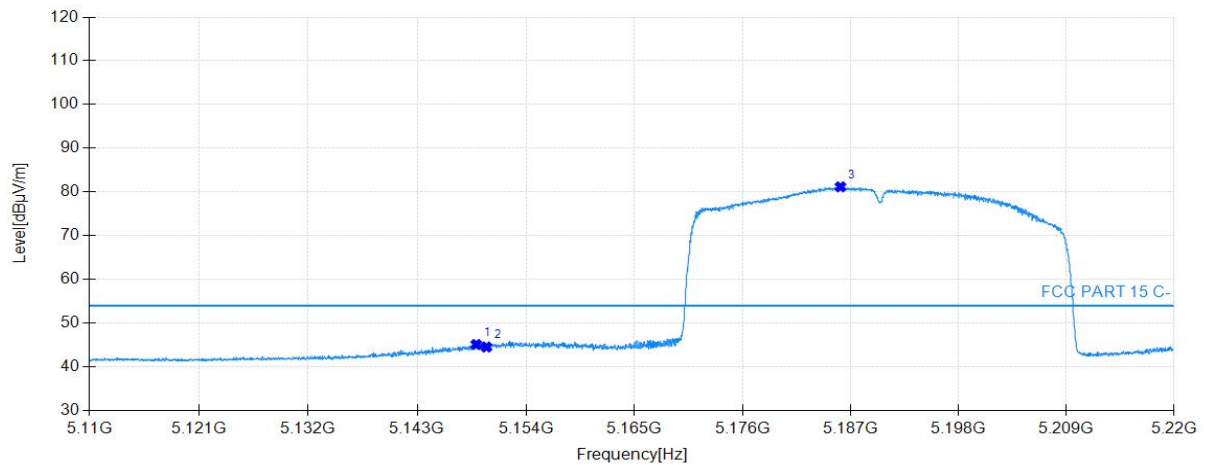


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.90	46.70	37.71	54.00	7.30	160	304	Horizontal
2	5150.00	46.48	37.72	54.00	7.52	160	290	Horizontal
3	5184.72	83.75	37.85	54.00	-29.75	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 1 at Channel 5190MHz		

Start of Test:2023-02-23 16:47:47

Test Graph

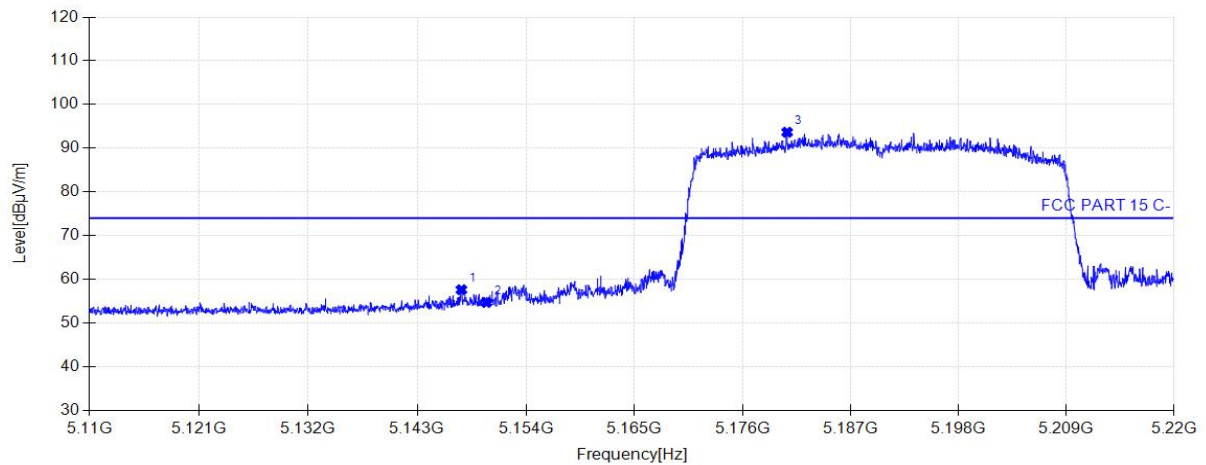


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.97	45.09	37.71	54.00	8.91	160	135	Vertical
2	5150.00	44.52	37.72	54.00	9.48	160	120	Vertical
3	5185.93	81.17	37.85	54.00	-27.17	160	135	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 2 at Channel 5190MHz		

Start of Test:2023-02-23 16:49:58

Test Graph

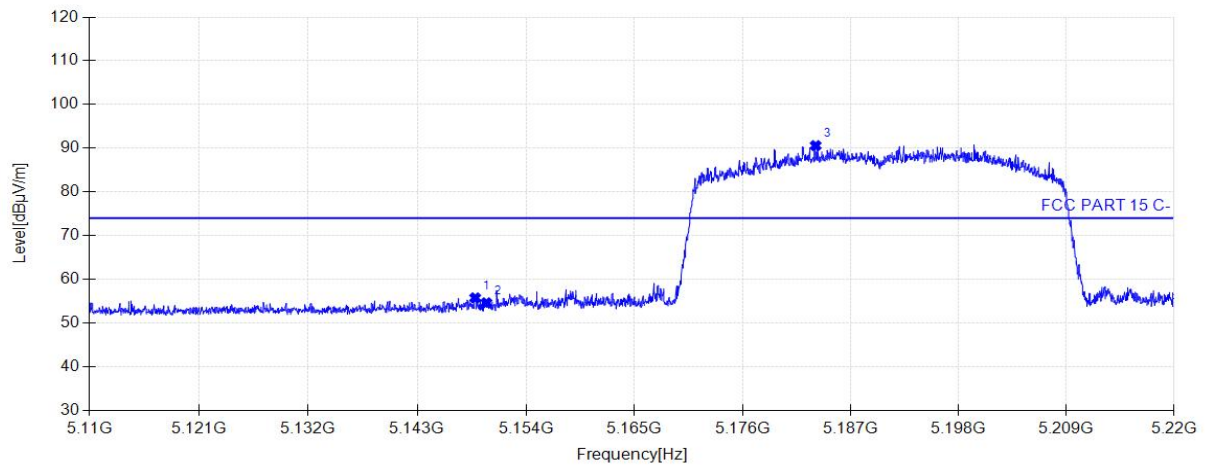


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5147.47	57.61	37.71	74.00	16.39	160	150	Horizontal
2	5150.00	54.72	37.72	74.00	19.28	160	290	Horizontal
3	5180.51	93.66	37.83	74.00	-19.66	160	311	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 2 at Channel 5190MHz		

Start of Test:2023-02-23 16:50:51

Test Graph

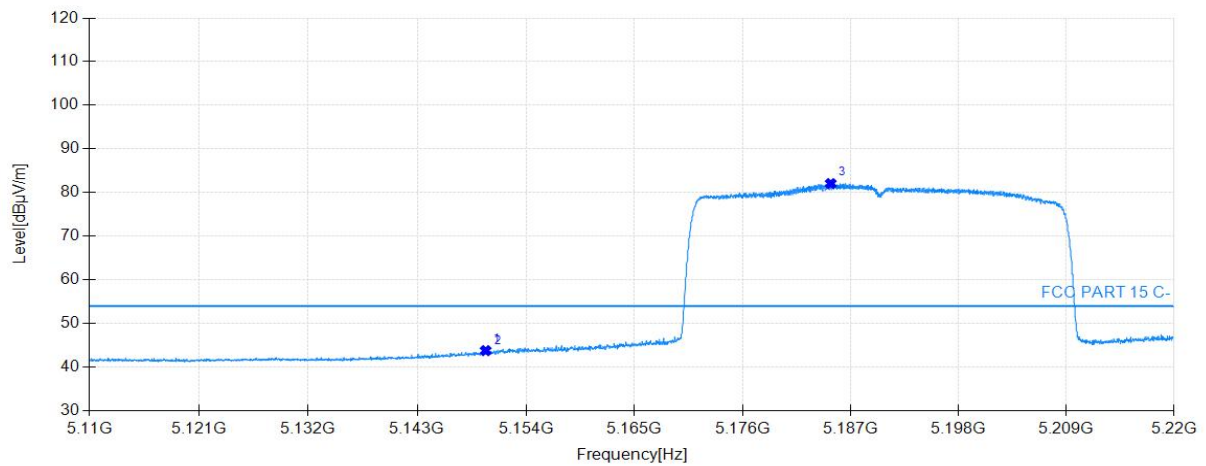


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.86	55.76	37.71	74.00	18.24	160	164	Vertical
2	5150.00	54.63	37.72	74.00	19.37	160	149	Vertical
3	5183.40	90.60	37.84	74.00	-16.60	160	135	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 2 at Channel 5190MHz		

Start of Test:2023-02-23 16:51:57

Test Graph

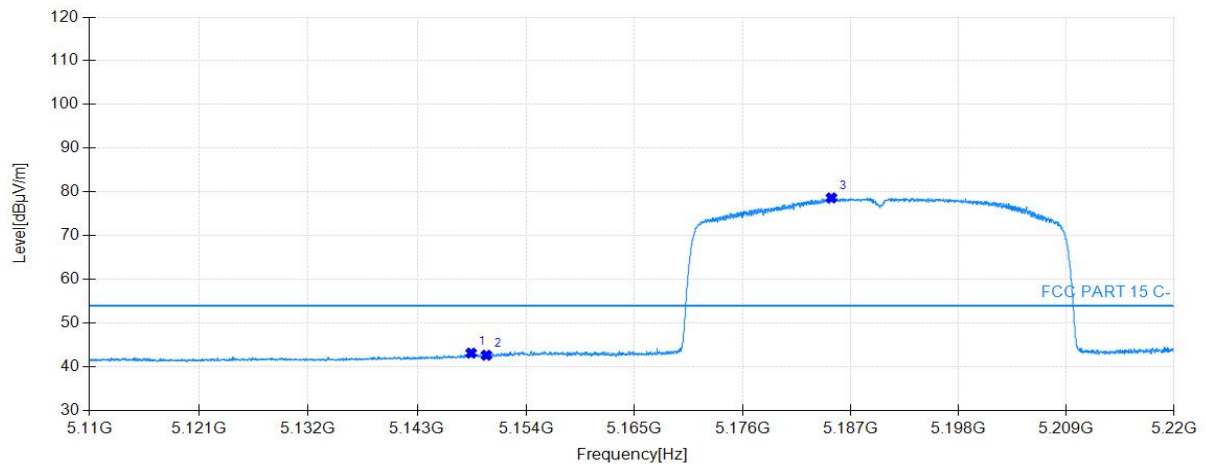


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.93	43.76	37.72	54.00	10.24	160	155	Horizontal
2	5150.00	43.33	37.72	54.00	10.67	160	303	Horizontal
3	5184.94	82.05	37.85	54.00	-28.05	160	310	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - Ant 2 at Channel 5190MHz		

Start of Test:2023-02-23 16:52:49

Test Graph

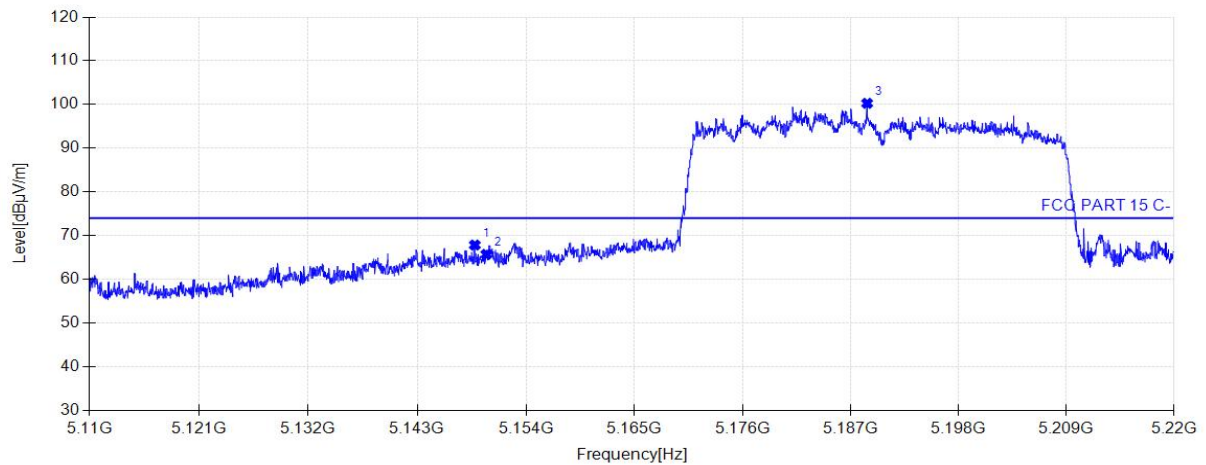


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.46	43.12	37.71	54.00	10.88	160	134	Vertical
2	5150.00	42.64	37.72	54.00	11.36	160	134	Vertical
3	5185.02	78.64	37.85	54.00	-24.64	160	134	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - CDD at Channel 5190MHz		

Start of Test:2023-02-23 16:55:00

Test Graph

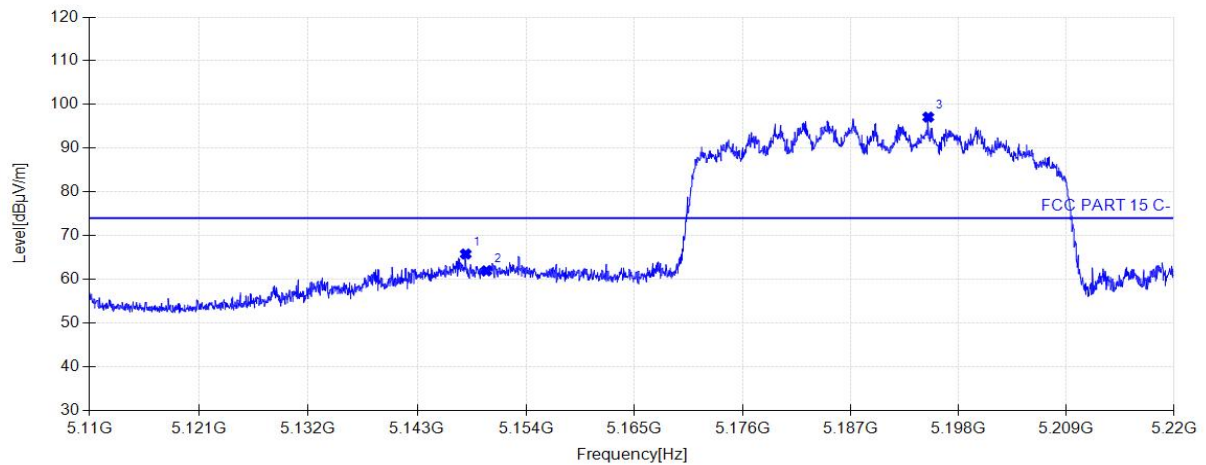


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.83	67.85	37.71	74.00	6.15	160	136	Horizontal
2	5150.00	65.71	37.72	74.00	8.29	160	309	Horizontal
3	5188.65	100.28	37.86	74.00	-26.28	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - CDD at Channel 5190MHz		

Start of Test:2023-02-23 16:55:53

Test Graph

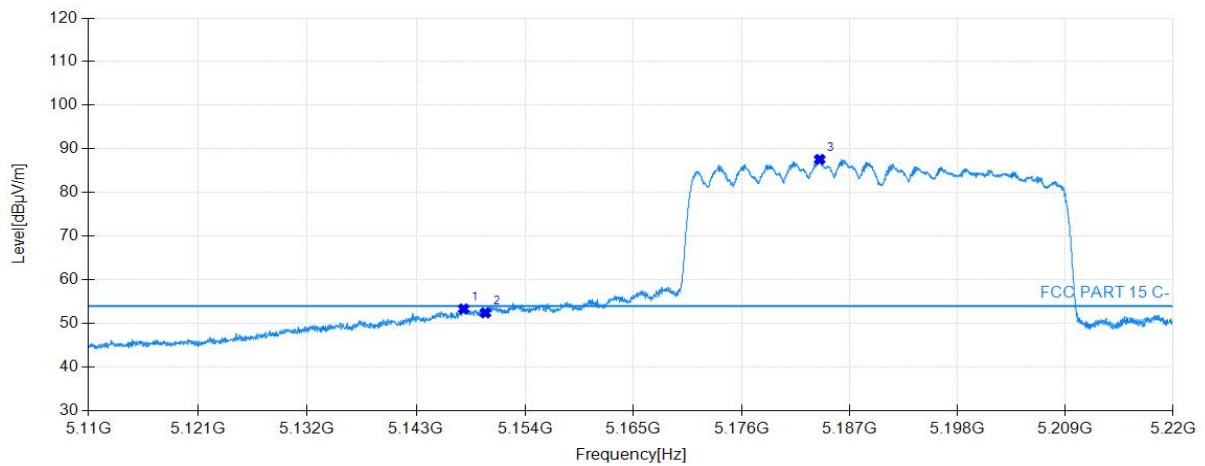


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5147.91	65.79	37.71	74.00	8.21	160	128	Vertical
2	5150.00	61.94	37.72	74.00	12.06	160	128	Vertical
3	5194.88	97.12	37.89	74.00	-23.12	160	142	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - CDD at Channel 5190MHz		

Start of Test:2023-02-23 16:56:57

Test Graph

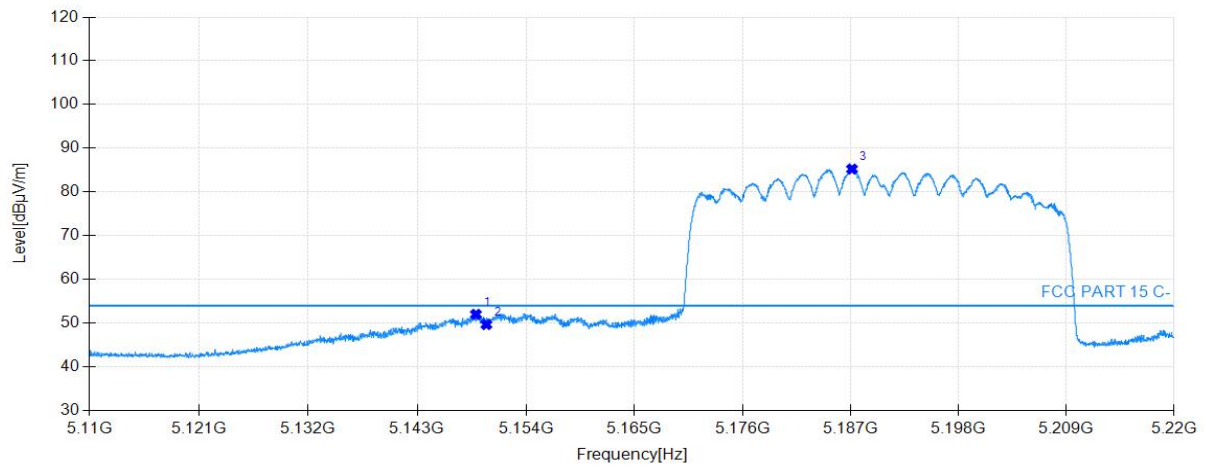


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5147.80	53.32	37.71	54.00	0.68	160	304	Horizontal
2	5150.00	52.41	37.72	54.00	1.59	160	304	Horizontal
3	5183.92	87.60	37.85	54.00	-33.60	160	311	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax40 - CDD at Channel 5190MHz		

Start of Test:2023-02-23 16:57:49

Test Graph

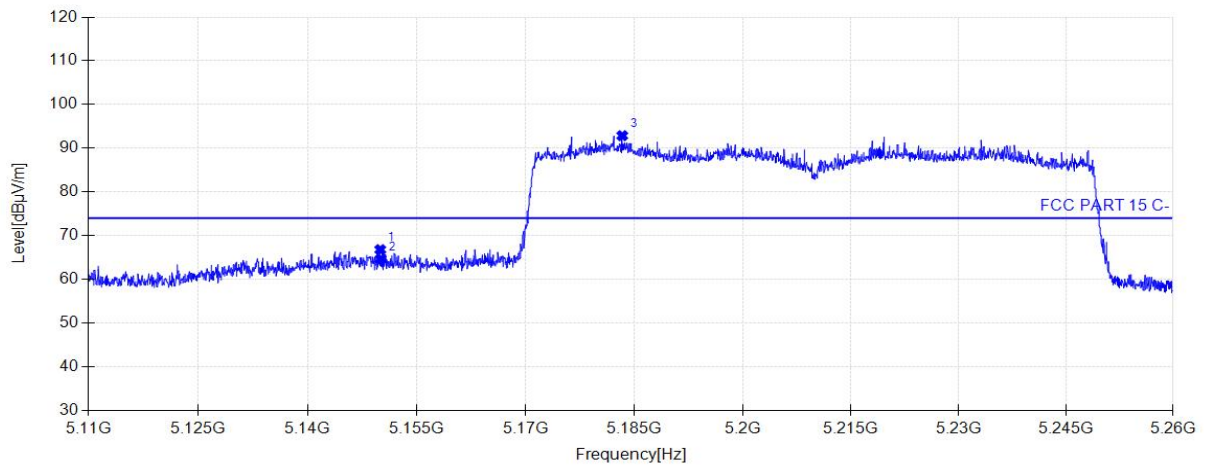


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.94	51.99	37.71	54.00	2.01	160	142	Vertical
2	5150.00	49.66	37.72	54.00	4.34	160	135	Vertical
3	5187.11	85.24	37.86	54.00	-31.24	160	128	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 1 at Channel 5210MHz		

Start of Test:2023-02-23 17:13:00

Test Graph

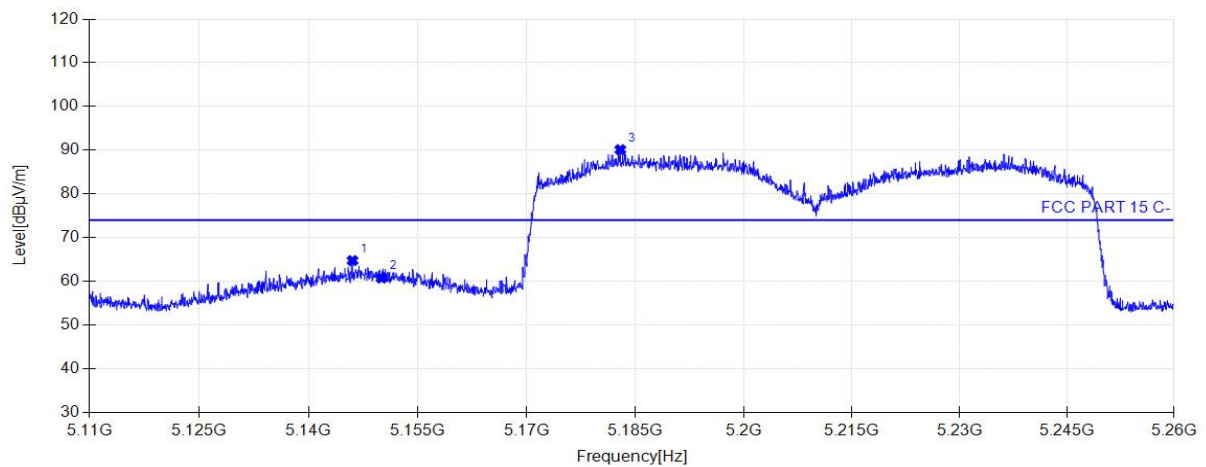


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.95	66.79	37.72	74.00	7.21	160	301	Horizontal
2	5150.00	64.62	37.72	74.00	9.38	160	301	Horizontal
3	5183.30	92.87	37.84	74.00	-18.87	160	301	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 1 at Channel 5210MHz		

Start of Test:2023-02-23 17:13:52

Test Graph

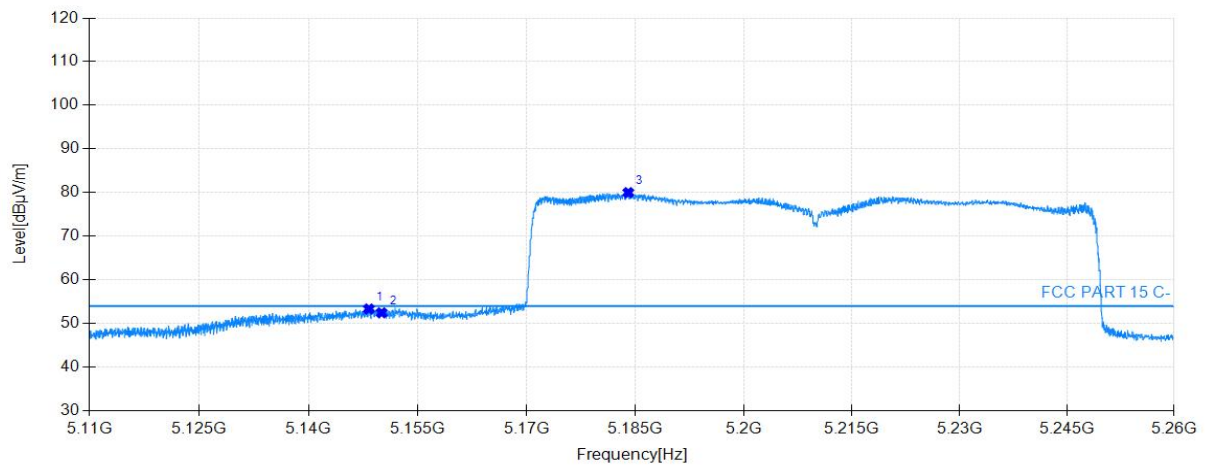


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5146.00	64.74	37.70	74.00	9.26	160	134	Vertical
2	5150.00	60.77	37.72	74.00	13.23	160	129	Vertical
3	5182.90	90.12	37.84	74.00	-16.12	160	134	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 1 at Channel 5210MHz		

Start of Test:2023-02-23 17:15:19

Test Graph

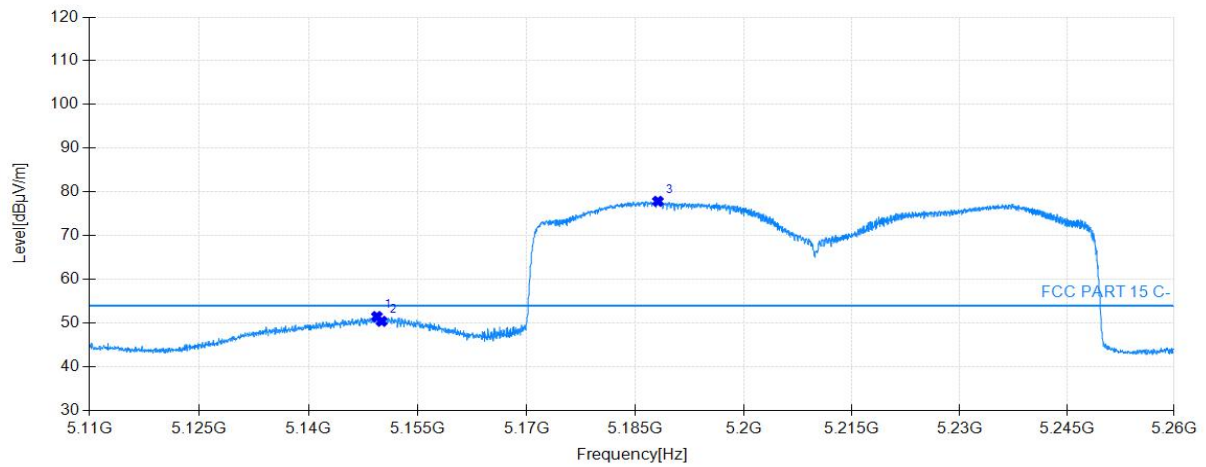


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5148.25	53.31	37.71	54.00	0.69	160	309	Horizontal
2	5150.00	52.43	37.72	54.00	1.57	160	302	Horizontal
3	5184.00	79.99	37.85	54.00	-25.99	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 1 at Channel 5210MHz		

Start of Test:2023-02-23 17:16:12

Test Graph

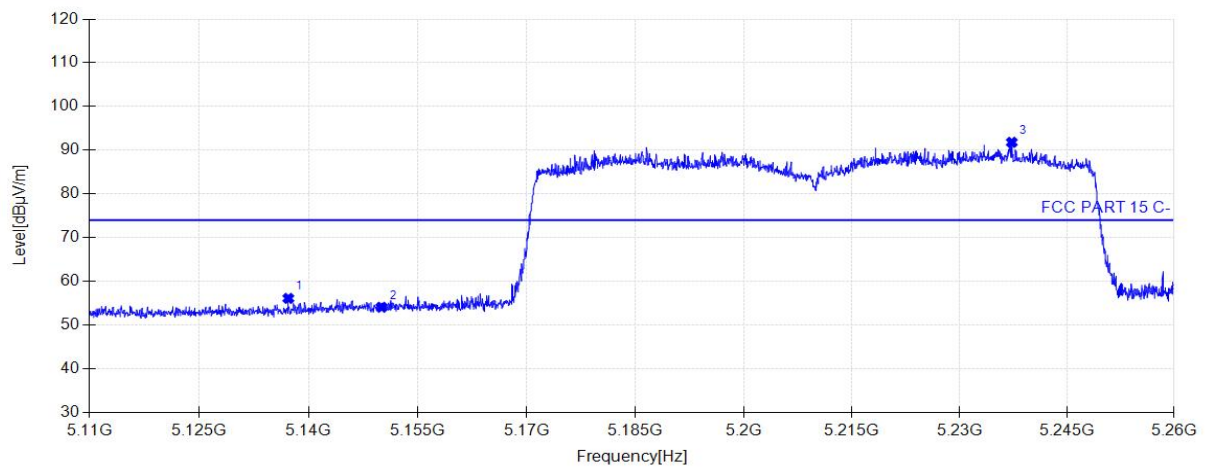


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.35	51.49	37.71	54.00	2.51	160	141	Vertical
2	5150.00	50.40	37.72	54.00	3.60	160	134	Vertical
3	5188.10	77.85	37.86	54.00	-23.85	160	127	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 2 at Channel 5210MHz		

Start of Test:2023-02-23 17:20:58

Test Graph

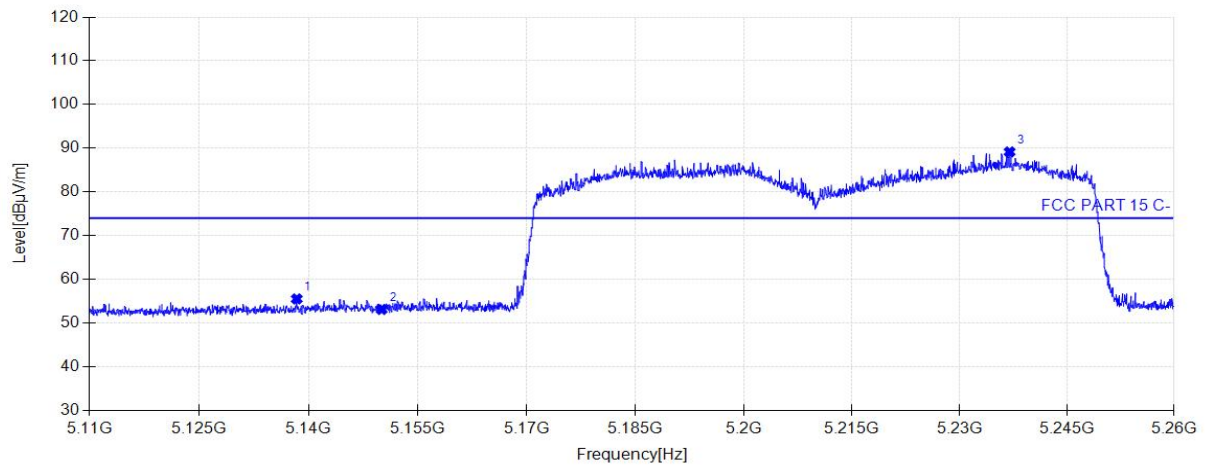


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5137.20	56.10	37.67	74.00	17.90	160	143	Horizontal
2	5150.00	54.07	37.72	74.00	19.93	160	233	Horizontal
3	5237.30	91.81	38.05	74.00	-17.81	160	310	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 2 at Channel 5210MHz		

Start of Test:2023-02-23 17:21:50

Test Graph

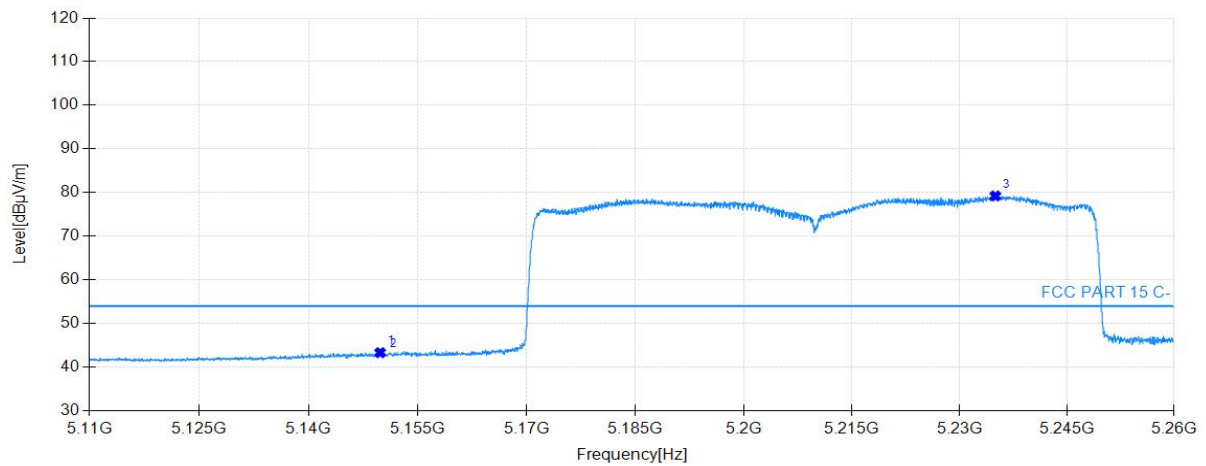


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5138.35	55.52	37.67	74.00	18.48	160	115	Vertical
2	5150.00	53.12	37.72	74.00	20.88	160	137	Vertical
3	5237.00	89.16	38.05	74.00	-15.16	160	130	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 2 at Channel 5210MHz		

Start of Test:2023-02-23 17:22:57

Test Graph

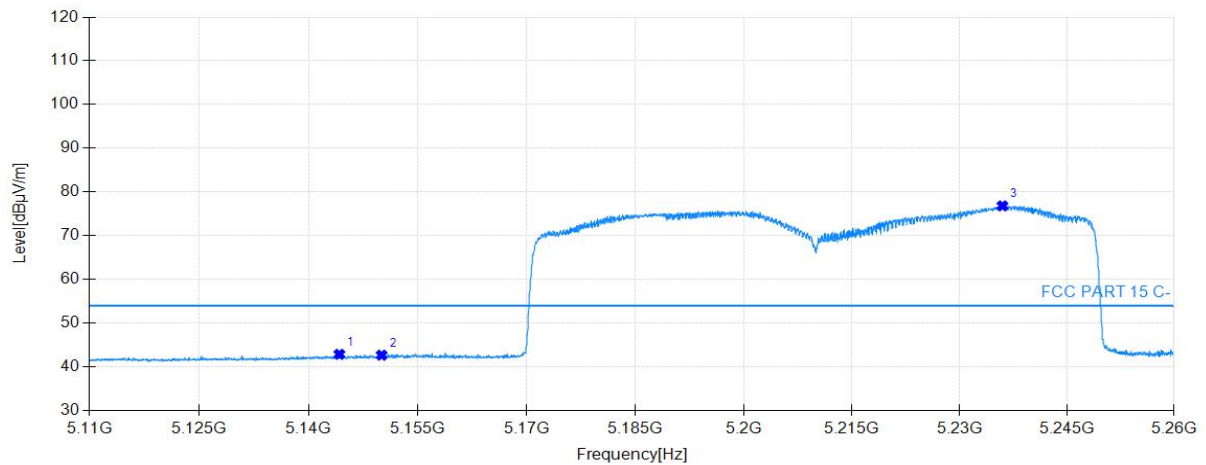


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5149.80	43.29	37.72	54.00	10.71	160	313	Horizontal
2	5150.00	42.59	37.72	54.00	11.41	160	151	Horizontal
3	5235.00	79.22	38.04	54.00	-25.22	160	313	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 2 at Channel 5210MHz		

Start of Test:2023-02-23 17:23:51

Test Graph

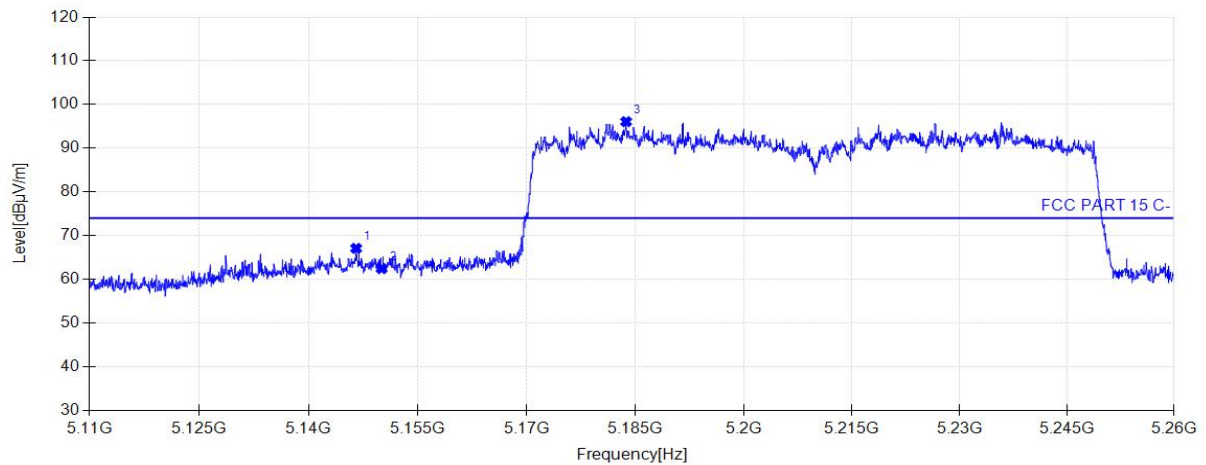


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.20	42.85	37.70	54.00	11.15	160	135	Vertical
2	5150.00	42.65	37.72	54.00	11.35	160	162	Vertical
3	5236.00	76.81	38.04	54.00	-22.81	160	156	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - CDD at Channel 5210MHz		

Start of Test:2023-02-23 17:26:48

Test Graph

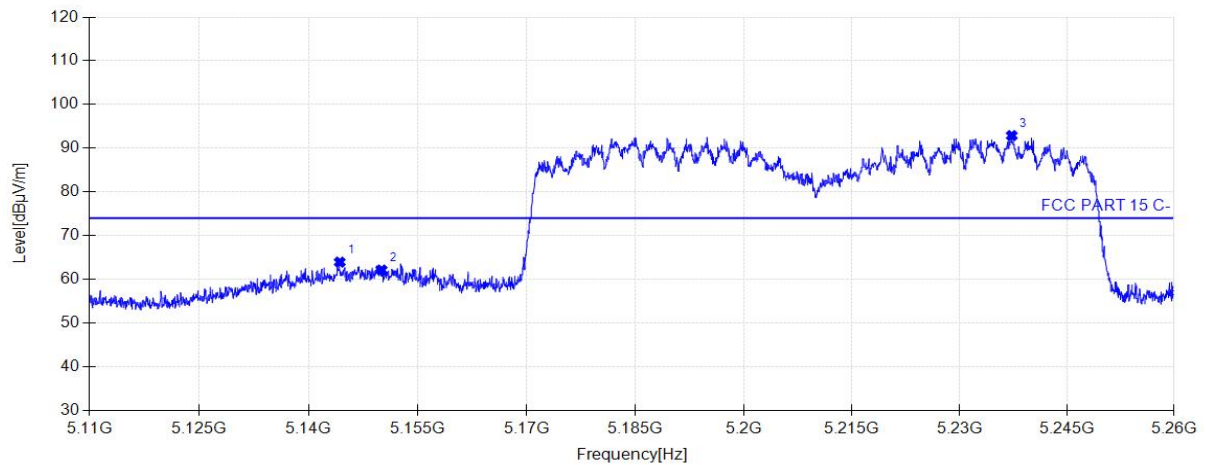


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5146.50	67.09	37.70	74.00	6.91	160	132	Horizontal
2	5150.00	62.46	37.72	74.00	11.54	160	298	Horizontal
3	5183.70	96.08	37.84	74.00	-22.08	160	312	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - CDD at Channel 5210MHz		

Start of Test:2023-02-23 17:27:41

Test Graph

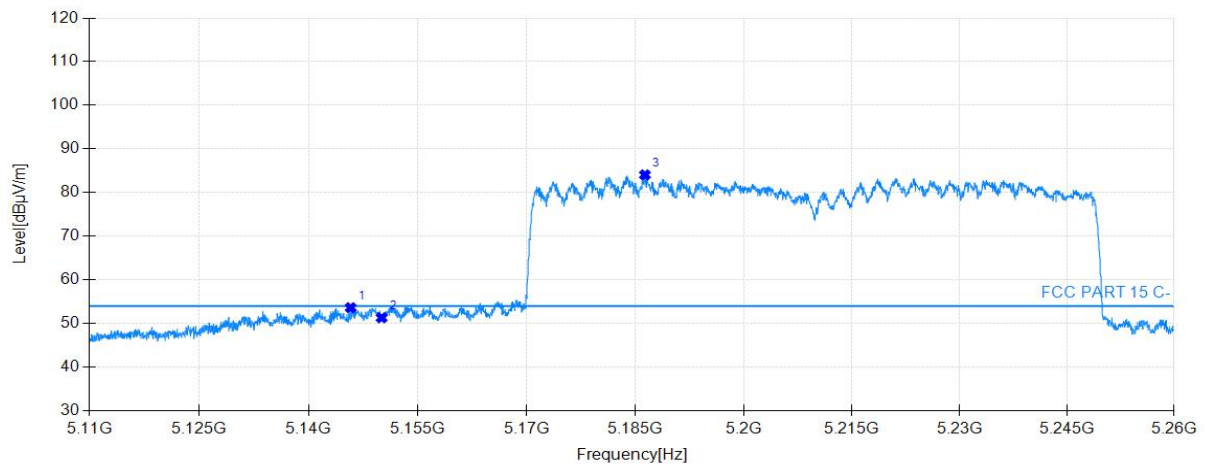


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5144.25	63.94	37.70	74.00	10.06	160	141	Vertical
2	5150.00	62.14	37.72	74.00	11.86	160	134	Vertical
3	5237.30	92.89	38.05	74.00	-18.89	160	134	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - CDD at Channel 5210MHz		

Start of Test:2023-02-23 17:29:07

Test Graph

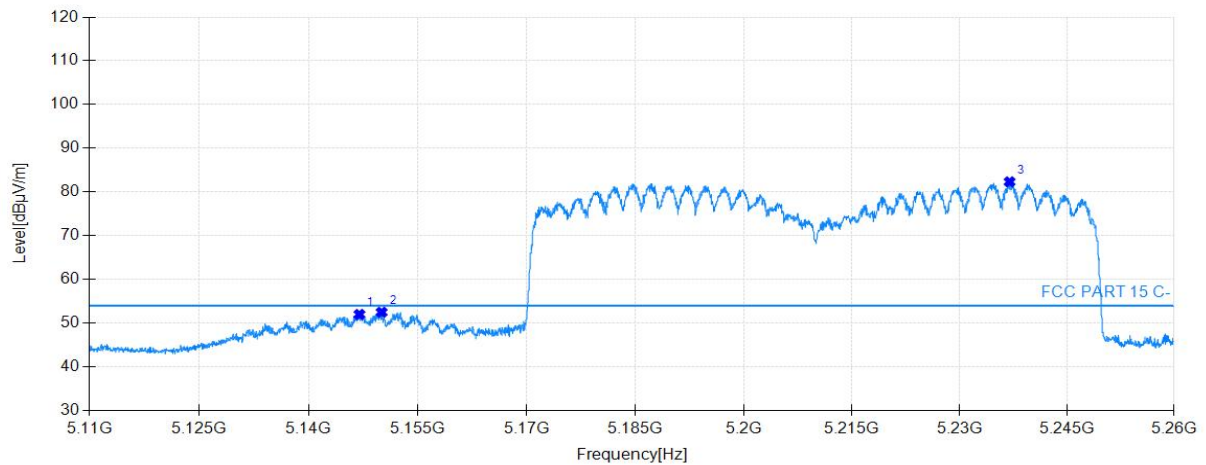


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5145.75	53.60	37.70	54.00	0.40	160	309	Horizontal
2	5150.00	51.29	37.72	54.00	2.71	160	142	Horizontal
3	5186.30	84.04	37.85	54.00	-30.04	160	309	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - CDD at Channel 5210MHz		

Start of Test:2023-02-23 17:30:00

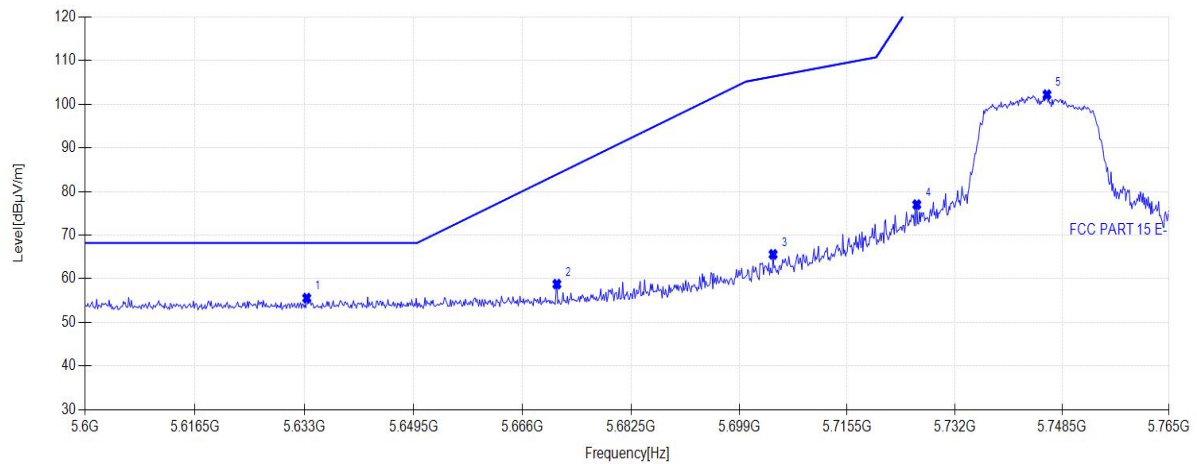
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5146.95	51.97	37.71	54.00	2.03	160	142	Vertical
2	5150.00	52.47	37.72	54.00	1.53	160	142	Vertical
3	5237.00	82.32	38.05	54.00	-28.32	160	136	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5745MHz		

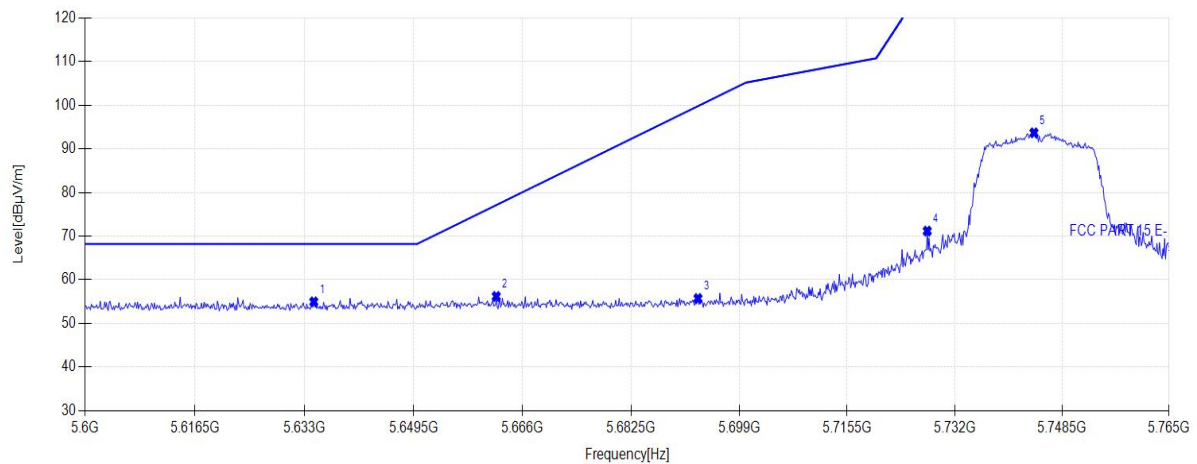
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5633.34	55.57	39.14	68.20	12.63	160	1	Horizontal
2	5671.22	58.78	39.17	83.95	25.17	160	337	Horizontal
3	5704.16	65.59	39.20	106.37	40.78	160	344	Horizontal
4	5726.17	76.99	39.21	122.20	45.21	160	337	Horizontal
5	5746.18	102.21	39.23	122.20	19.99	160	337	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5745MHz		

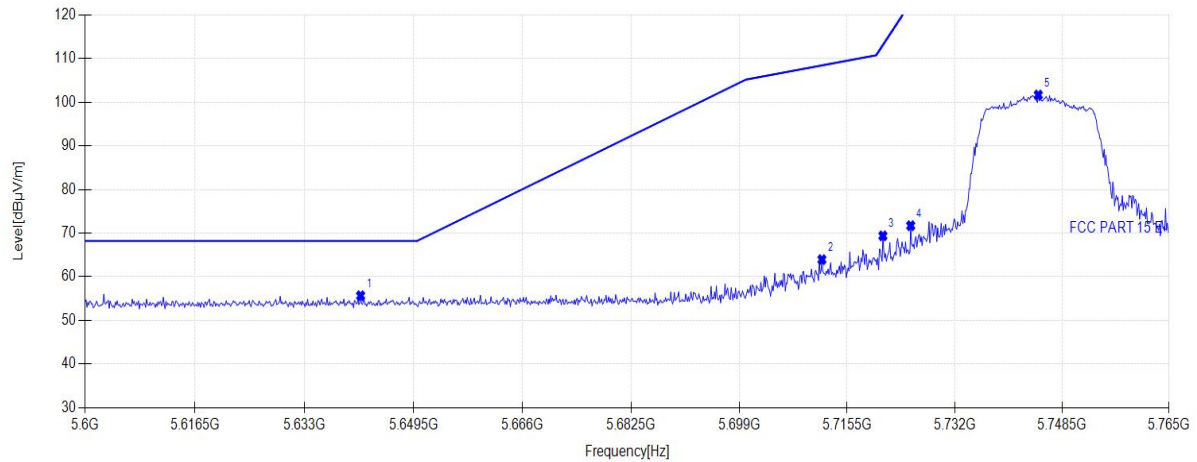
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5824.18	97.63	39.29	122.20	24.57	160	274	Vertical
2	5850.00	58.26	39.31	122.06	63.80	160	295	Vertical
3	5855.00	55.96	39.31	110.80	54.84	160	239	Vertical
4	5875.00	55.25	39.33	105.18	49.93	160	50	Vertical
5	5925.00	55.34	39.36	68.20	12.86	160	100	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 – Ant 2 at Channel 5745MHz		

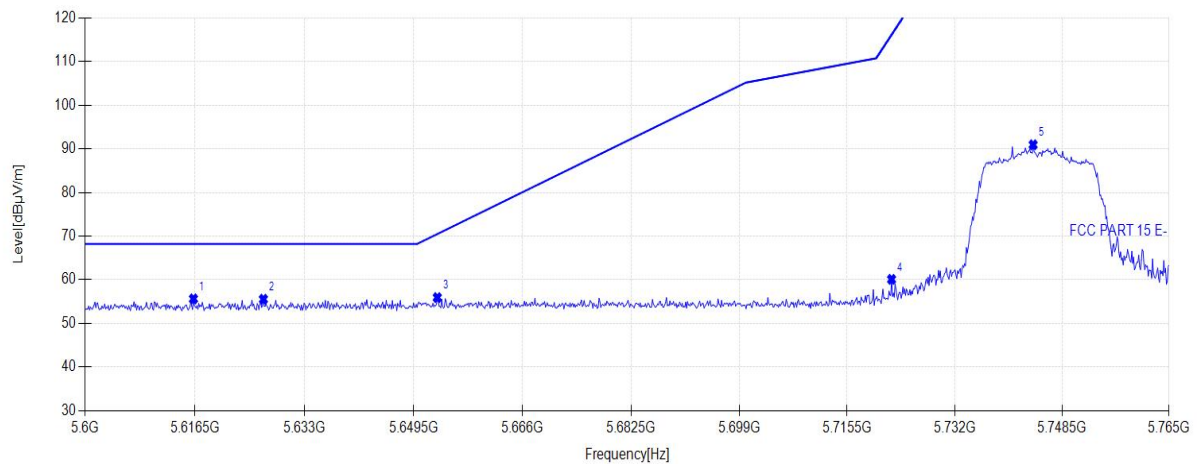
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5641.48	55.65	39.15	68.20	12.55	160	20	Horizontal
2	5711.63	63.94	39.20	108.46	44.52	160	20	Horizontal
3	5720.97	69.38	39.21	113.02	43.64	160	27	Horizontal
4	5725.24	71.71	39.21	122.20	50.49	160	20	Horizontal
5	5744.84	101.67	39.23	122.20	20.53	160	20	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 2 at Channel 5745MHz		

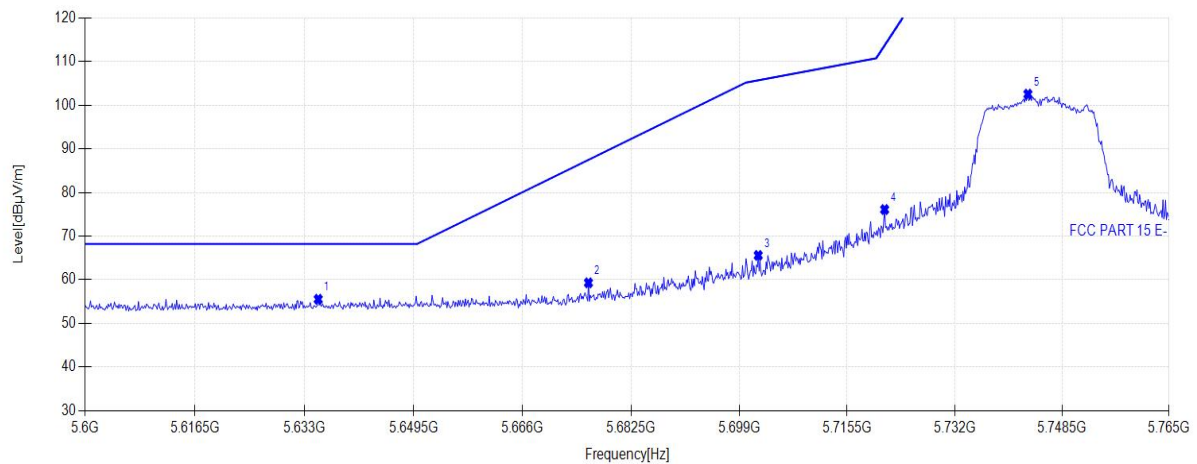
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5616.27	55.63	39.13	68.20	12.57	160	157	Vertical
2	5626.80	55.54	39.14	68.20	12.66	160	268	Vertical
3	5653.08	55.92	39.16	70.49	14.57	160	359	Vertical
4	5722.30	60.10	39.21	116.06	55.96	160	59	Vertical
5	5744.04	90.95	39.23	122.20	31.25	160	52	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5745MHz		

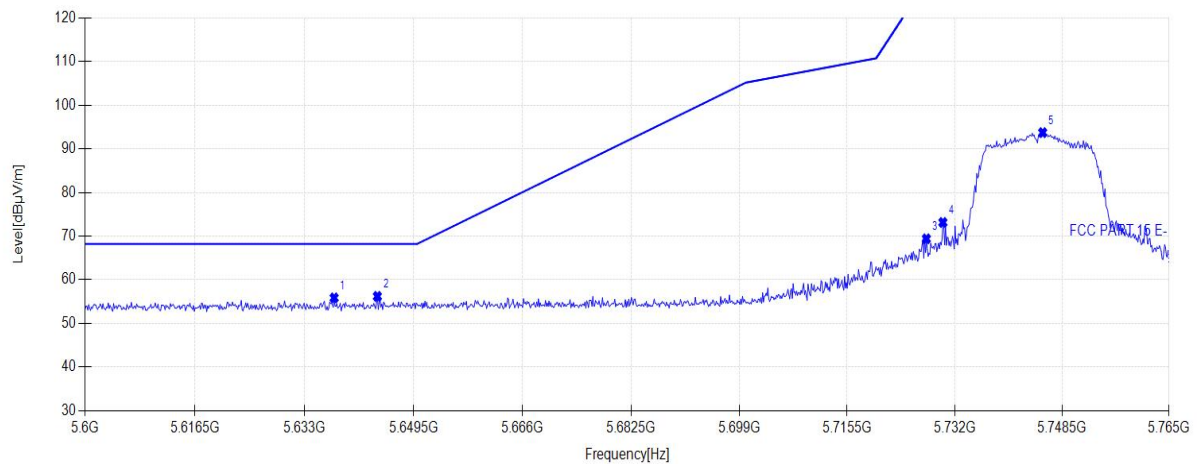
Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5635.07	55.54	39.14	68.20	12.66	160	30	Horizontal
2	5676.02	59.31	39.17	87.50	28.19	160	336	Horizontal
3	5701.90	65.59	39.19	105.73	40.14	160	336	Horizontal
4	5721.24	76.11	39.21	113.63	37.52	160	336	Horizontal
5	5743.24	102.56	39.22	122.20	19.64	160	336	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5745MHz		

Test Graph

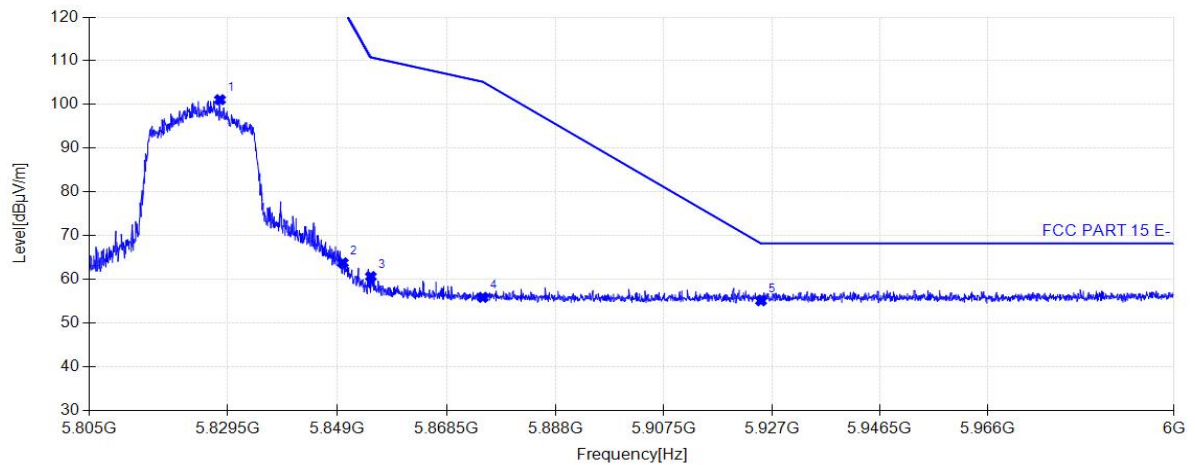


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5637.47	55.85	39.14	68.20	12.35	160	360	Vertical
2	5644.01	56.20	39.15	68.20	12.00	160	9	Vertical
3	5727.64	69.40	39.21	122.20	52.80	160	190	Vertical
4	5730.17	73.14	39.21	122.20	49.06	160	197	Vertical
5	5745.51	93.74	39.23	122.20	28.46	160	190	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5825MHz		

Start of Test:2023-02-23 17:34:17

Test Graph

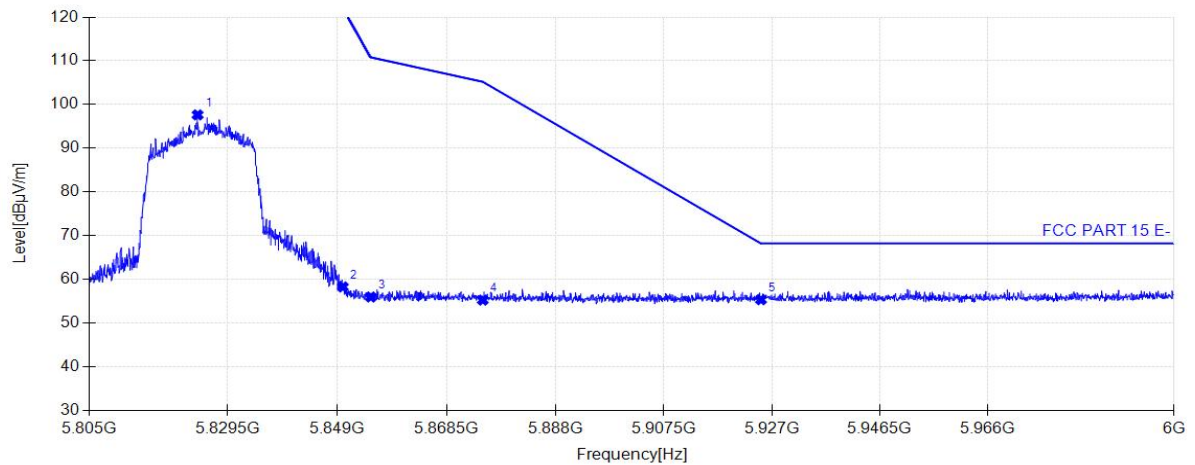


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5828.14	101.10	39.29	122.20	21.10	160	304	Horizontal
2	5850.00	63.78	39.31	122.06	58.28	160	262	Horizontal
3	5855.00	60.63	39.31	110.80	50.17	160	255	Horizontal
4	5875.00	55.88	39.33	105.18	49.30	160	128	Horizontal
5	5925.00	55.10	39.36	68.20	13.10	160	185	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 1 at Channel 5825MHz		

Start of Test:2023-02-23 17:35:10

Test Graph

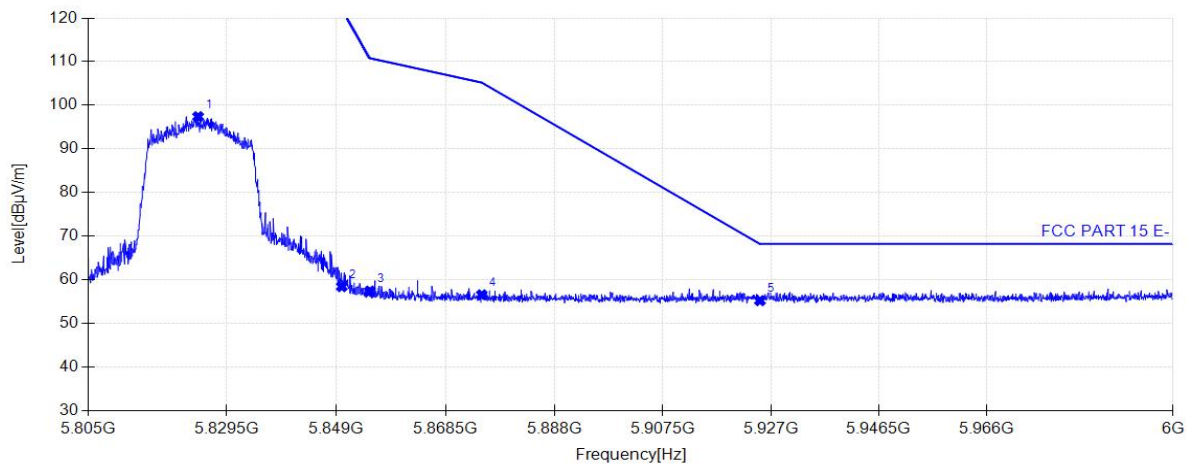


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5824.18	97.63	39.29	122.20	24.57	160	274	Vertical
2	5850.00	58.26	39.31	122.06	63.80	160	295	Vertical
3	5855.00	55.96	39.31	110.80	54.84	160	239	Vertical
4	5875.00	55.25	39.33	105.18	49.93	160	50	Vertical
5	5925.00	55.34	39.36	68.20	12.86	160	100	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 – Ant 2 at Channel 5825MHz		

Start of Test:2023-02-23 17:38:10

Test Graph

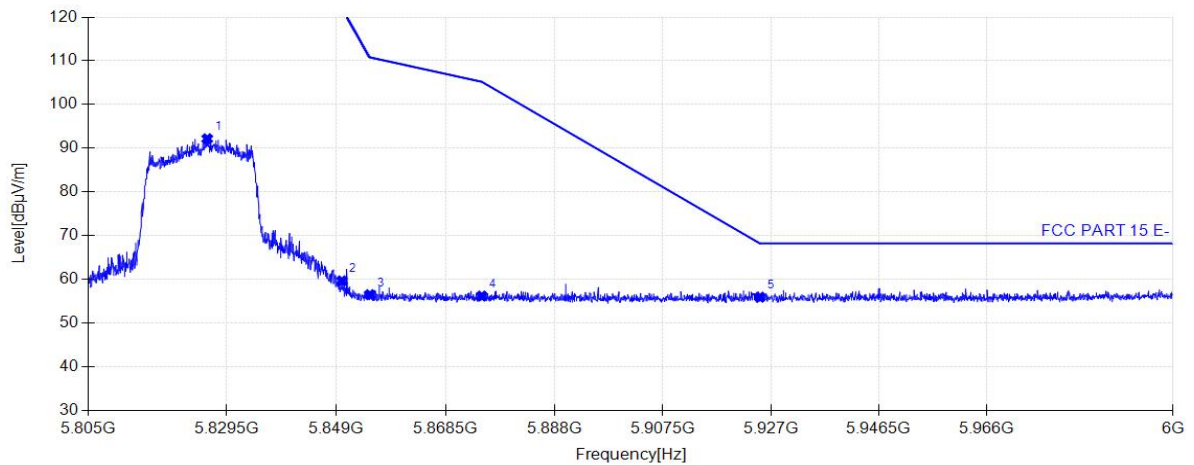


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5824.44	97.39	39.29	122.20	24.81	160	316	Horizontal
2	5850.00	58.43	39.31	122.06	63.63	160	330	Horizontal
3	5855.00	57.41	39.31	110.80	53.39	160	337	Horizontal
4	5875.00	56.56	39.33	105.18	48.62	160	303	Horizontal
5	5925.00	55.22	39.36	68.20	12.98	160	198	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - Ant 2 at Channel 5825MHz		

Start of Test:2023-02-23 17:39:02

Test Graph

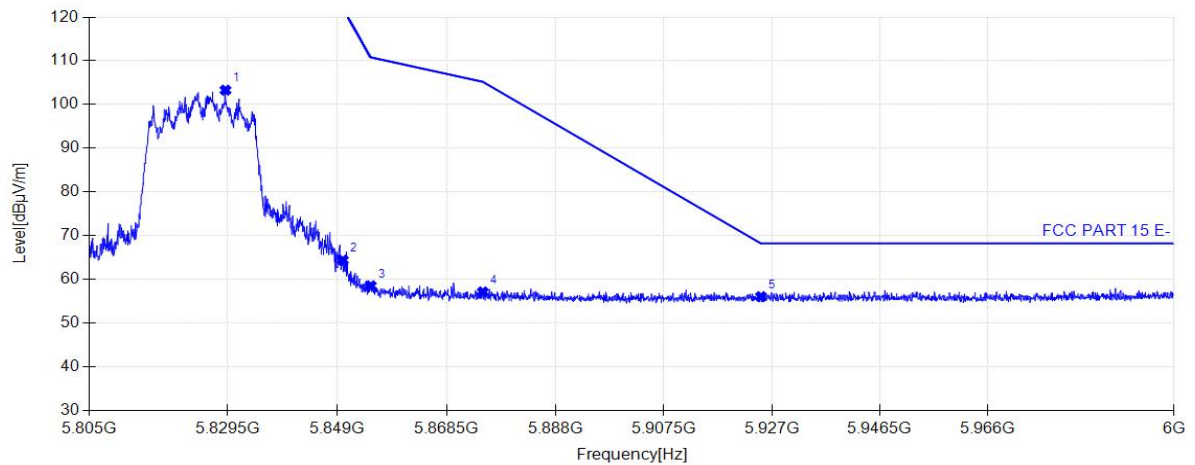


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5826.06	92.17	39.29	122.20	30.03	160	134	Vertical
2	5850.00	59.64	39.31	122.06	62.42	160	168	Vertical
3	5855.00	56.49	39.31	110.80	54.31	160	260	Vertical
4	5875.00	56.17	39.33	105.18	49.01	160	204	Vertical
5	5925.00	55.92	39.36	68.20	12.28	160	323	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5825MHz		

Start of Test:2023-02-23 17:42:17

Test Graph

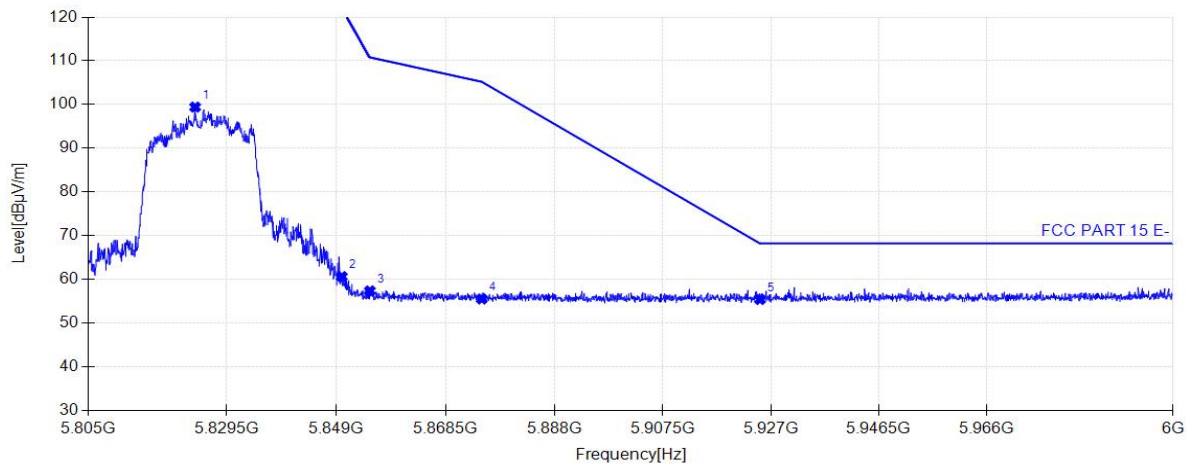


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5829.12	103.29	39.29	122.20	18.91	160	296	Horizontal
2	5850.00	64.39	39.31	122.06	57.67	160	282	Horizontal
3	5855.00	58.52	39.31	110.80	52.28	160	254	Horizontal
4	5875.00	57.11	39.33	105.18	48.07	160	128	Horizontal
5	5925.00	56.05	39.36	68.20	12.15	160	343	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax20 - CDD at Channel 5825MHz		

Start of Test:2023-02-23 17:43:09

Test Graph

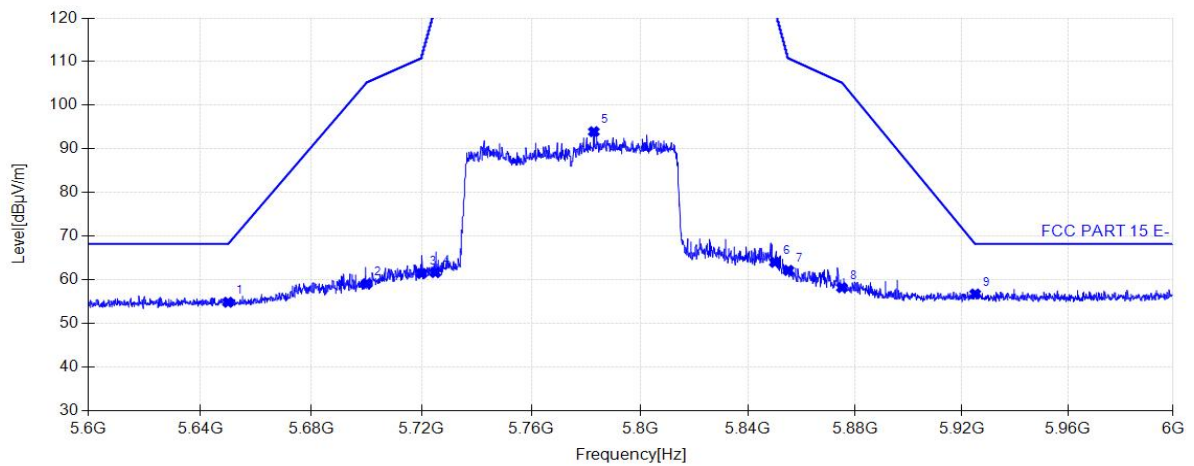


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5823.92	99.42	39.29	122.20	22.78	160	113	Vertical
2	5850.00	60.63	39.31	122.06	61.43	160	147	Vertical
3	5855.00	57.36	39.31	110.80	53.44	160	274	Vertical
4	5875.00	55.50	39.33	105.18	49.68	160	356	Vertical
5	5925.00	55.40	39.36	68.20	12.80	160	197	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 1 at Channel 5775MHz		

Start of Test:2023-02-23 17:47:26

Test Graph

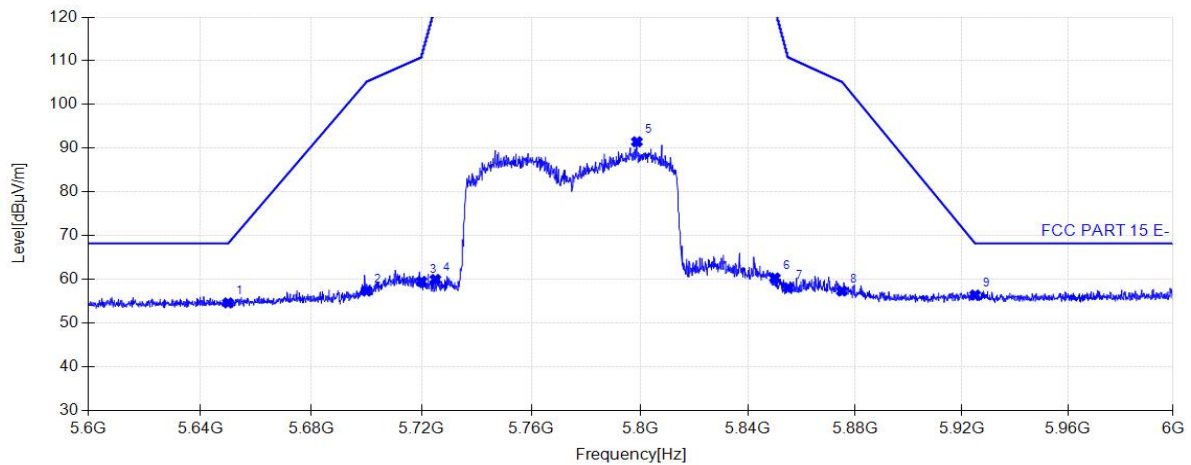


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.00	54.85	39.15	68.21	13.36	160	266	Horizontal
2	5700.00	59.10	39.19	105.21	46.11	160	295	Horizontal
3	5720.00	61.45	39.21	110.89	49.44	160	79	Horizontal
4	5725.00	61.66	39.21	122.20	60.54	160	266	Horizontal
5	5782.99	93.95	39.26	122.20	28.25	160	302	Horizontal
6	5850.00	64.01	39.31	122.01	58.00	160	266	Horizontal
7	5855.00	62.14	39.31	110.79	48.65	160	266	Horizontal
8	5875.00	58.21	39.33	105.18	46.97	160	107	Horizontal
9	5925.00	56.74	39.36	68.20	11.46	160	135	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 1 at Channel 5775MHz		

Start of Test:2023-02-23 17:48:19

Test Graph

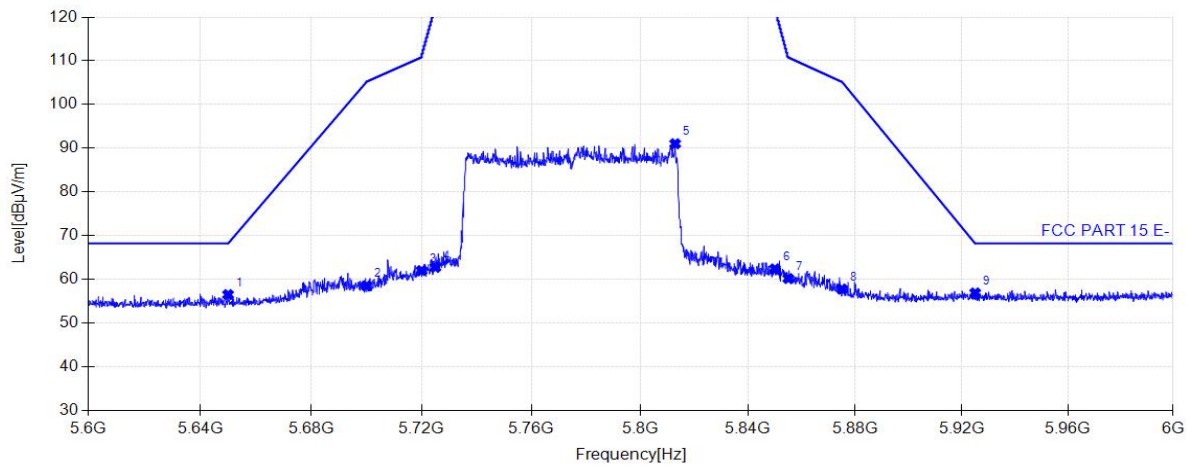


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.00	54.61	39.15	68.21	13.60	160	248	Vertical
2	5700.00	57.33	39.19	105.21	47.88	160	107	Vertical
3	5720.00	59.53	39.21	110.89	51.36	160	136	Vertical
4	5725.00	59.98	39.21	122.20	62.22	160	86	Vertical
5	5798.86	91.48	39.27	122.20	30.72	160	143	Vertical
6	5850.00	60.32	39.31	122.01	61.69	160	303	Vertical
7	5855.00	58.08	39.31	110.79	52.71	160	275	Vertical
8	5875.00	57.33	39.33	105.18	47.85	160	129	Vertical
9	5925.00	56.41	39.36	68.20	11.79	160	1	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 2at Channel 5775MHz		

Start of Test:2023-02-23 17:52:04

Test Graph

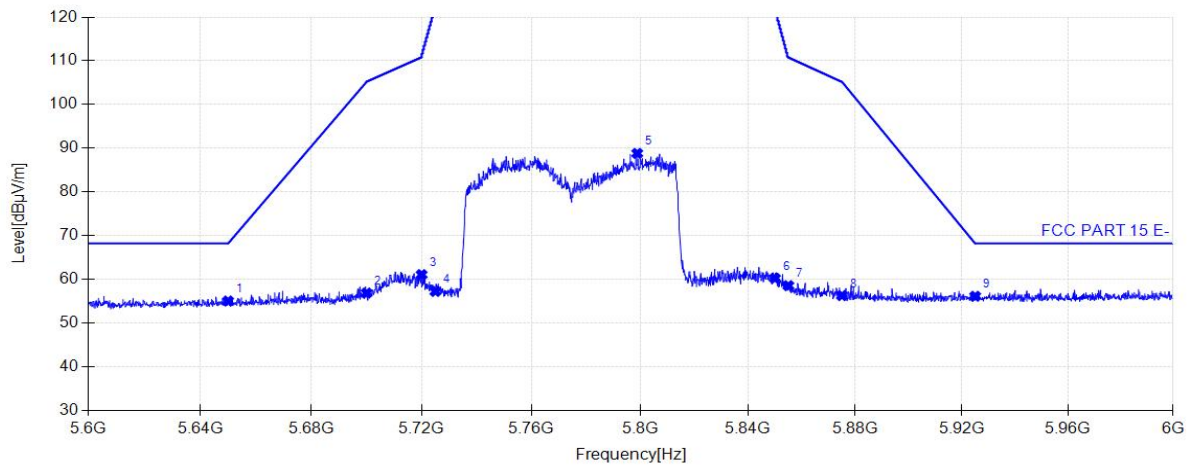


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.00	56.50	39.15	68.21	11.71	160	331	Horizontal
2	5700.00	58.54	39.19	105.21	46.67	160	310	Horizontal
3	5720.00	62.01	39.21	110.89	48.88	160	331	Horizontal
4	5725.00	62.74	39.21	122.20	59.46	160	324	Horizontal
5	5813.00	91.03	39.28	122.20	31.17	160	331	Horizontal
6	5850.00	62.39	39.31	122.01	59.62	160	338	Horizontal
7	5855.00	60.18	39.31	110.79	50.61	160	331	Horizontal
8	5875.00	57.77	39.33	105.18	47.41	160	150	Horizontal
9	5925.00	56.89	39.36	68.20	11.31	160	80	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - Ant 2 at Channel 5775MHz		

Start of Test:2023-02-23 17:52:56

Test Graph

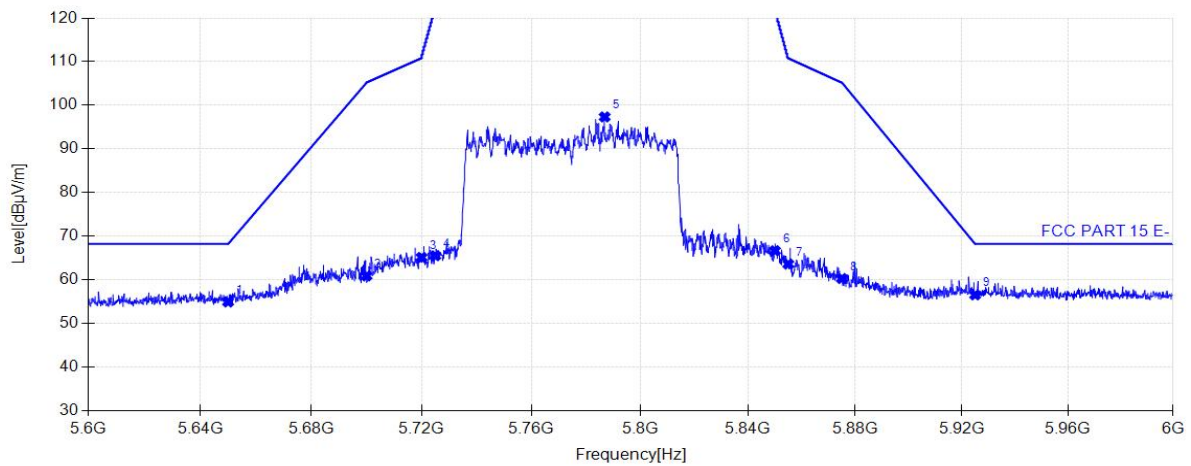


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.00	55.04	39.15	68.21	13.17	160	343	Vertical
2	5700.00	56.87	39.19	105.21	48.34	160	141	Vertical
3	5720.00	61.08	39.21	110.89	49.81	160	141	Vertical
4	5725.00	57.24	39.21	122.20	64.96	160	163	Vertical
5	5798.99	88.82	39.27	122.20	33.38	160	156	Vertical
6	5850.00	60.24	39.31	122.01	61.77	160	163	Vertical
7	5855.00	58.55	39.31	110.79	52.24	160	163	Vertical
8	5875.00	56.28	39.33	105.18	48.90	160	148	Vertical
9	5925.00	56.13	39.36	68.20	12.07	160	163	Vertical

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - CDD at Channel 5775MHz		

Start of Test:2023-02-23 17:55:52

Test Graph

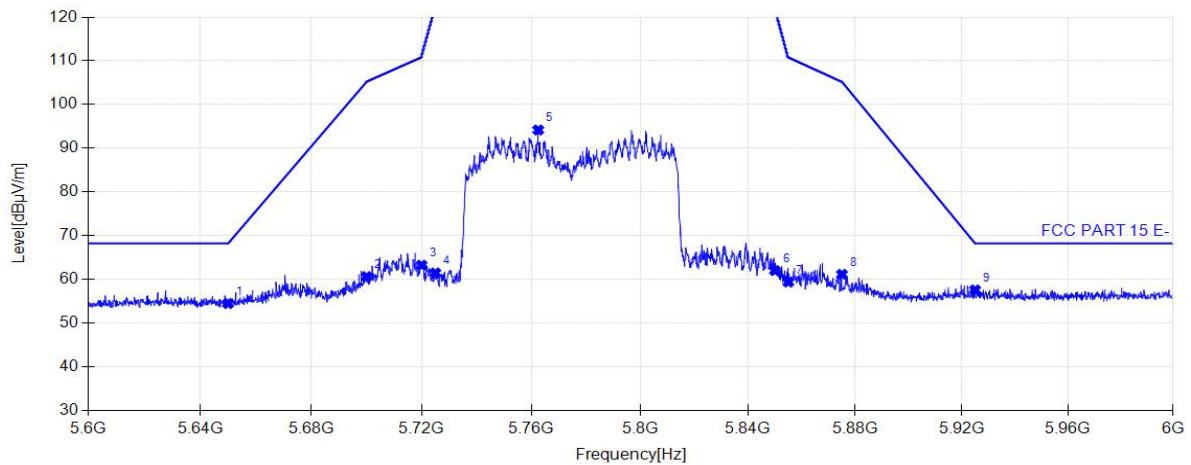


Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.00	54.91	39.15	68.21	13.30	160	359	Horizontal
2	5700.00	60.89	39.19	105.21	44.32	160	290	Horizontal
3	5720.00	65.13	39.21	110.89	45.76	160	330	Horizontal
4	5725.00	65.51	39.21	122.20	56.69	160	255	Horizontal
5	5786.99	97.33	39.26	122.20	24.87	160	296	Horizontal
6	5850.00	66.65	39.31	122.01	55.36	160	268	Horizontal
7	5855.00	63.60	39.31	110.79	47.19	160	255	Horizontal
8	5875.00	60.29	39.33	105.18	44.89	160	296	Horizontal
9	5925.00	56.53	39.36	68.20	11.67	160	122	Horizontal

Project Information			
EUT:	Caper Cart M3 Android board	Model:	PCBA-CAP-CA03AN-RK 39
S/N:	/	Voltage:	DC 24V
Environment:	Temp: 22°C; Humi:54%	Engineer:	Amos Xia
Remark:	Transmit by 802.11ax80 - CDD at Channel 5775MHz		

Start of Test:2023-02-23 17:56:45

Test Graph



Suspected Data List								
NO.	Freq. [MHz]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5650.00	54.46	39.15	68.21	13.75	160	163	Vertical
2	5700.00	60.62	39.19	105.21	44.59	160	136	Vertical
3	5720.00	63.24	39.21	110.89	47.65	160	143	Vertical
4	5725.00	61.46	39.21	122.20	60.74	160	150	Vertical
5	5762.58	94.17	39.24	122.20	28.03	160	150	Vertical
6	5850.00	62.01	39.31	122.01	60.00	160	163	Vertical
7	5855.00	59.38	39.31	110.79	51.41	160	282	Vertical
8	5875.00	61.14	39.33	105.18	44.04	160	143	Vertical
9	5925.00	57.57	39.36	68.20	10.63	160	129	Vertical

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	AV (dB μ V)
0.15 ~ 0.50	66 ~ 56	56 ~ 46
0.50 ~ 5.0	56	46
5.0 ~ 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

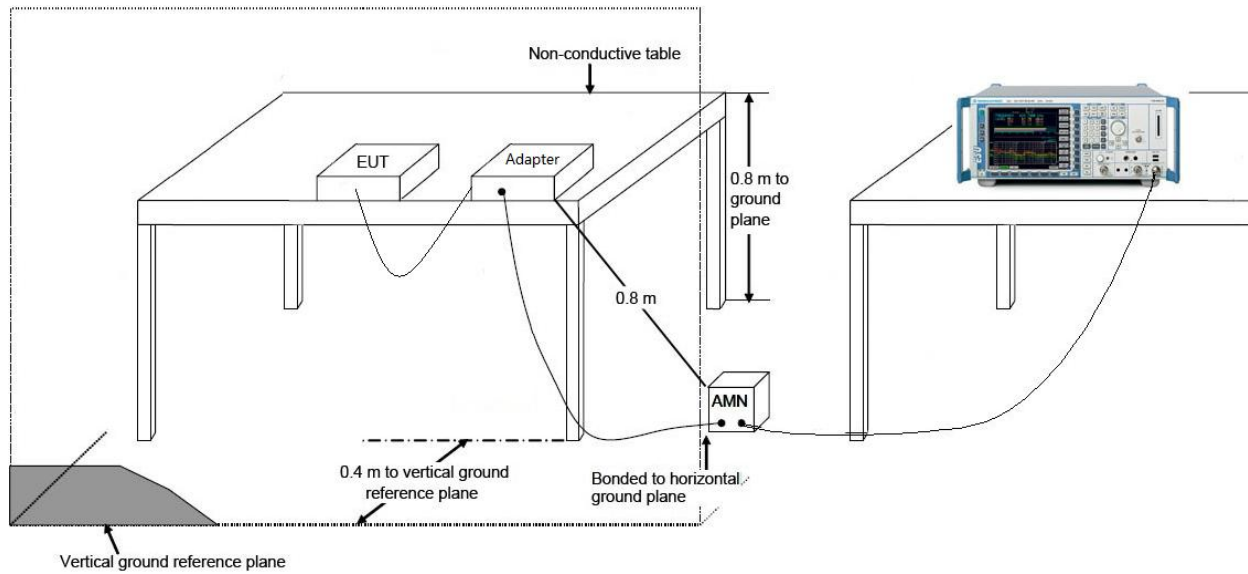
7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4: 2014 and tested according to ANSI C63.10:2013 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

7.10.3. Test Setup



7.10.4. Test Result

DC power supply, Not applicable.

8. CONCLUSION

The data collected relate only the item(s) tested and show that the **Caper Cart M3 Android board** is in compliance with Part 15E of the FCC Rules and IC Rules.

_____ The End _____