



PCTEST

7185 Oakland Mills Road, Columbia, MD 21046 USA
Tel. 410.290.6652 / Fax 410.290.6654
<http://www.pctest.com>



MEASUREMENT REPORT FCC PART 15.407 UNII 802.11ax OFDMA

Applicant Name:
LG Electronics USA, Inc.
1000 Sylvan Avenue
Englewood Cliffs, NJ 07632
United States

Date of Testing:
1/21 - 2/15/2020
Test Site/Location:
PCTEST Lab. Columbia, MD, USA
Test Report Serial No.:
1M1912300226-08.ZNF

FCC ID:	ZNFV600TM
APPLICANT:	LG Electronics USA, Inc.

Application Type: Class II Permissive Change
Model: LM-V600TM
Additional Model(s): LMV600TM, V600TM
EUT Type: Portable Handset
Frequency Range: 5180 – 5825MHz
FCC Classification: Unlicensed National Information Infrastructure (UNII)
FCC Rule Part(s): Part 15 Subpart E (15.407)
ISED Specification: RSS-247 Issue 2
Test Procedure(s): ANSI C63.10-2013, KDB 789033 D02 v02r01,
KDB 648474 D03 v01r04, KDB 662911 D01 v02r01
Class II Permissive Change: Please see FCC change document

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 ANSI C63.10-2013 and KDB 789033 D02 v02r01. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Randy Ortanez
President



FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 1 of 91

TABLE OF CONTENTS

1.0	INTRODUCTION	3
1.1	Scope.....	3
1.2	PCTEST Test Location.....	3
1.3	Test Facility / Accreditations.....	3
2.0	PRODUCT INFORMATION	4
2.1	Equipment Description	4
2.2	Device Capabilities.....	4
2.3	Test Configuration.....	6
2.4	EMI Suppression Device(s)/Modifications.....	6
3.0	DESCRIPTION OF TESTS	7
3.1	Evaluation Procedure.....	7
3.2	Radiated Emissions.....	7
3.3	Environmental Conditions.....	7
4.0	ANTENNA REQUIREMENTS	8
5.0	MEASUREMENT UNCERTAINTY	9
6.0	TEST EQUIPMENT CALIBRATION DATA.....	10
7.0	TEST RESULTS	11
7.1	Summary.....	11
7.3	Radiated Spurious Emission Measurements – Above 1GHz	12
7.6.1	SISO Antenna-1 Radiated Spurious Emission Measurements	15
7.6.2	SISO Antenna-2 Radiated Spurious Emission Measurements	33
7.6.3	MIMO Radiated Spurious Emission Measurements	51
7.6.4	SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW).....	69
7.6.5	SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW).....	71
7.6.6	SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW).....	73
7.6.7	SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW).....	75
7.6.8	SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW).....	77
7.6.9	SISO Antenna-2 Radiated Band Edge Measurements (80MHz BW).....	79
7.6.10	MIMO Radiated Band Edge Measurements (20MHz BW).....	81
7.6.11	MIMO Radiated Band Edge Measurements (40MHz BW).....	83
7.6.12	MIMO Radiated Band Edge Measurements (80MHz BW).....	85
7.4	Radiated Spurious Emissions Measurements – Below 1GHz	87
8.0	CONCLUSION.....	91

FCC ID: ZNFV600TM	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 2 of 91

1.0 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 PCTEST Test Location

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The measurement facility is compliant with the test site requirements specified in ANSI C63.4-2014.

1.3 Test Facility / Accreditations

Measurements were performed at PCTEST Engineering Lab located in Columbia, MD 21046, U.S.A.

- PCTEST is an ISO 17025-2005 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).
- PCTEST facility is a registered (2451B) test laboratory with the site description on file with ISED.

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 3 of 91	

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **LG Portable Handset FCC ID: ZNFV600TM**. The test data contained in this report pertains only to the emissions due to the EUT's UNII transmitter.

Test Device Serial No.: 04398, 04380

2.2 Device Capabilities

This device contains the following capabilities:

800/850/1900 CDMA/EvDO Rev0/A, 1x Advanced (BC0, BC1, BC10), 850/1900 GSM/GPRS/EDGE, 850/1700/1900 WCDMA/HSPA, Multi-band LTE, 5G NR (n71, n66, n25, n2, n41(PC2)), 802.11b/g/n/ac/ax WLAN, 802.11a/n/ac/ax UNII, Bluetooth (1x, EDR, LE), NFC

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
36	5180	52	5260	100	5500	149	5745
:	:	:	:	:	:	:	:
42	5210	56	5280	120	5600	157	5785
:	:	:	:	:	:	:	:
48	5240	64	5320	144	5720	165	5825

Table 2-1. 802.11ax (20MHz) Frequency / Channel Operations

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
38	5190	54	5270	102	5510	151	5755
:	:	:	:	:	:	:	:
46	5230	62	5310	118	5590	159	5795
				:	:		
				142	5710		

Table 2-2. 802.11ax (40MHz BW) Frequency / Channel Operations

Band 1		Band 2A		Band 2C		Band 3	
Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)	Ch.	Frequency (MHz)
42	5210	58	5290	106	5530	155	5775
				:	:		
				138	5690		

Table 2-3. 802.11ax (80MHz BW) Frequency / Channel Operations

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)	
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Approved by: Quality Manager
			Page 4 of 91

Notes:

- 5GHz NII operation is possible in 20MHz, and 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 = 50MHz, and detector = peak per the guidance of Section B)2)b) of ANSI C63.10-2013 and KDB 789033 D02 v02r01. 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:

Maximum Achievable Duty Cycles				
802.11 Mode/Band		Duty Cycle [%]		
		ANT1	ANT2	MIMO
5GHz	a	99.5	99.6	N/A
	n (HT20)	99.8	99.9	99.9
	ac (HT20)	99.8	99.7	99.9
	ax (HT20)	99.8	99.9	99.8
	n (HT40)	99.7	99.9	99.9
	ac (HT40)	99.9	99.9	99.4
	ax (HT40)	99.9	99.8	99.7
	ac (HT80)	99.6	99.9	99.9
	ax (HT80)	99.8	99.6	99.9

Table 2-4. Measured Duty Cycles

- The device employs MIMO technology. Below are the possible configurations.

WiFi Configurations		SISO		SDM		CDD	
		ANT1	ANT2	ANT1	ANT2	ANT1	ANT2
5GHz	11a	✓	✓	✗	✗	✓	✓
	11n/ac/ax (20MHz)	✓	✓	✓	✓	✓	✓
	11n/ac/ax (40MHz)	✓	✓	✓	✓	✓	✓
	11ac/ax (80MHz)	✓	✓	✓	✓	✓	✓

Table 2-5. Frequency / Channel Operations

✓ = Support ; ✗ = NOT Support

SISO = Single Input Single Output

SDM = Spatial Diversity Multiplexing – MIMO function

CDD = Cyclic Delay Diversity - 2Tx Function

- This device supports simultaneous transmission operation, which allows for two SISO channels to operate independent of one another in the 2.4GHz (WLAN & BT) and 5GHz bands simultaneously on each antenna. The following tables show the worst case configurations determined during testing. The data for these configurations is contained in this test report. The BT + 5GHz case is not considered as worst case since the BT power is lower than the 2.4GHz WLAN power.

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 5 of 91

Configuration 1: ANT1 transmitting in 2.4GHz mode and ANT2 in 5GHz mode

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1	2
Channel	1	36
Operating Frequency (MHz)	2412	5180
Data Rate (Mbps)	1	MCS0
Mode	802.11b	802.11n

Table 2-6. Config-1 (ANT1 2.4GHz & ANT2 5GHz)

Configuration 2: ANT1 transmitting in 5GHz mode and ANT2 in 2.4GHz mode

Description	2.4 GHz Emission	5 GHz Emission
Antenna	2	1
Channel	1	36
Operating Frequency (MHz)	2412	5180
Data Rate (Mbps)	1	MCS0
Mode	802.11b	802.11n

Table 2-7. Config-2 (ANT1 5GHz & ANT2 2.4GHz)

Configuration 3: ANT1 and ANT2 both transmitting in 2.4GHz and 5GHz modes simultaneously

Description	2.4 GHz Emission	5 GHz Emission
Antenna	1, 2	1, 2
Channel	1	36
Operating Frequency (MHz)	2412	5180
Data Rate (Mbps)	MCS8	MCS8
Mode	802.11n	802.11n

Table 2-8. Config-3 (ANT1 MIMO & ANT2 MIMO)

2.3 Test Configuration

The EUT was tested per the guidance of KDB 789033 D02 v02r01. ANSI C63.10-2013 was used to reference the appropriate EUT setup for radiated spurious emissions testing. See Section 0 for radiated emissions test setups.

This device supports wireless charging capability and, thus, is subject to the test requirements of KDB 648474 D03 v01r04. Additional radiated spurious emission measurements were performed with the EUT lying flat on an authorized wireless charging pad (WCP) FCC ID: YZP-PWMAW815A while operating under normal conditions in a simulated call or data transmission configuration. The worst case radiated emissions data is shown in this report.

This device supports Dual Display (DD) Cover, which attaches to the device to provide a secondary display on the inside of the cover. The display was rotated through all possible orientations to determine worst case angle. The worst case radiated emission data with the Dual Display Cover is included in this report.

2.4 EMI Suppression Device(s)/Modifications

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

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 6 of 91

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 789033 D02 v02r01 were used in the measurement of the EUT.

Deviation from measurement procedure.....None

3.2 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. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. 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 above 1GHz. An 80cm tall test table made of Styrodur is placed on top of the turn table. For measurements above 1GHz, an additional Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

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 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 was placed on top of the 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, mode of operation, 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.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 474788 D01.

3.3 Environmental Conditions

The temperature is controlled within range of 15°C to 35°C. The relative humidity is controlled within range of 10% to 75%. The atmospheric pressure is monitored within the range 86-106kPa (860-1060mbar).

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 7 of 91	

4.0 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.”

- The antennas of the EUT are **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

The EUT complies with the requirement of §15.203.

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 8 of 91

5.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013. All measurement uncertainty values are shown with a coverage factor of $k = 2$ to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (\pm dB)
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

FCC ID: ZNFV600TM	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 9 of 91

6.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N9030A	PXA Signal Analyzer (44GHz)	6/12/2019	Annual	6/12/2020	MY52350166
Emco	3115	Horn Antenna (1-18GHz)	3/28/2018	Biennial	3/28/2020	9704-5182
Emco	3116	Horn Antenna (18 - 40GHz)	6/7/2018	Triennial	6/7/2021	9203-2178
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	6/5/2019	Annual	6/5/2020	100342
Rohde & Schwarz	ESU40	EMI Test Receiver (40GHz)	9/23/2019	Annual	9/23/2020	100348
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	5/6/2019	Annual	5/6/2020	103200
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	7/11/2019	Annual	7/11/2020	102134
Rohde & Schwarz	SFUNIT-Rx	Shielded Filter Unit	7/8/2019	Annual	7/8/2020	102133
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	4/19/2018	Biennial	4/19/2020	A051107

Table 6-1. Annual Test Equipment Calibration Schedule

FCC ID: ZNFV600TM	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 10 of 91	

7.0 TEST RESULTS

7.1 Summary

Company Name: LG Electronics USA, Inc.
 FCC ID: ZNFV600TM
 FCC Classification: Unlicensed National Information Infrastructure (UNII)

FCC Part Section(s)	RSS Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
15.407(b.1), (2), (3), (4)	RSS-247 [6.2]	Undesirable Emissions	Undesirable emissions must meet the limits detailed in 15.407(b) (RSS-247 [6.2])	RADIATED	PASS	Section 7.6
15.205, 15.407(b.1), (4), (5), (6)	RSS-Gen [8.9]	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Emissions in restricted bands must meet the radiated limits detailed in 15.209 (RSS-Gen [8.9])		PASS	Section 7.6, 7.7

Table 7-1. Summary of Test Results

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.
- 3) For radiated band edge, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "Chamber Automation," Version 1.3.1.
- 4) Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in UNII Bands 2A or 2C.
- 5) 802.11ax OFDMA testing was performed for all signal tone configurations as specified by the 802.11ax standard. Worst case results are determined and reported per the guidance provided at the October 2018 TCB Workshop.
- 6) Only one RU index could be selected at a time so no contiguous or non-contiguous RU's were considered for testing.

FCC ID: ZNFV600TM	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 11 of 91	

7.3 Radiated Spurious Emission Measurements – Above 1GHz

§15.407(b) §15.205 §15.209; RSS-Gen [8.9]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in ANSI C63.10-2013 and KDB 789033 D02 v02r01, and at the appropriate frequencies. All channels, modes (e.g. 26 Tones, 52 Tones, 106 Tones, 242 Tones, 484 Tones and 996 Tones), and modulations/data rates were investigated among all UNII bands. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

For transmitters operating in the 5.15-5.25 GHz and 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an EIRP 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 EIRP of -27 dBm/MHz.

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

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR and Table 6 of RSS-Gen (8.10) must not exceed the limits shown in Table 7-2 per Section 15.209 and RSS-Gen (8.9).

Frequency	Field Strength [μ V/m]	Measured Distance [Meters]
Above 960.0 MHz	500	3

Table 7-2. Radiated Limits

Test Procedures Used

ANSI C63.10-2013 – Sections 12.7.7.2, 12.7.6, 12.7.5
KDB 789033 D02 v02r01 – Section G

Test Settings

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 (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Averaging type = power (RMS)
7. Sweep time = auto couple
8. Trace was averaged over 100 sweeps

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 12 of 91	

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

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 = 120kHz
4. Detector = CISPR quasi-peak
5. Sweep time = auto couple
6. Trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

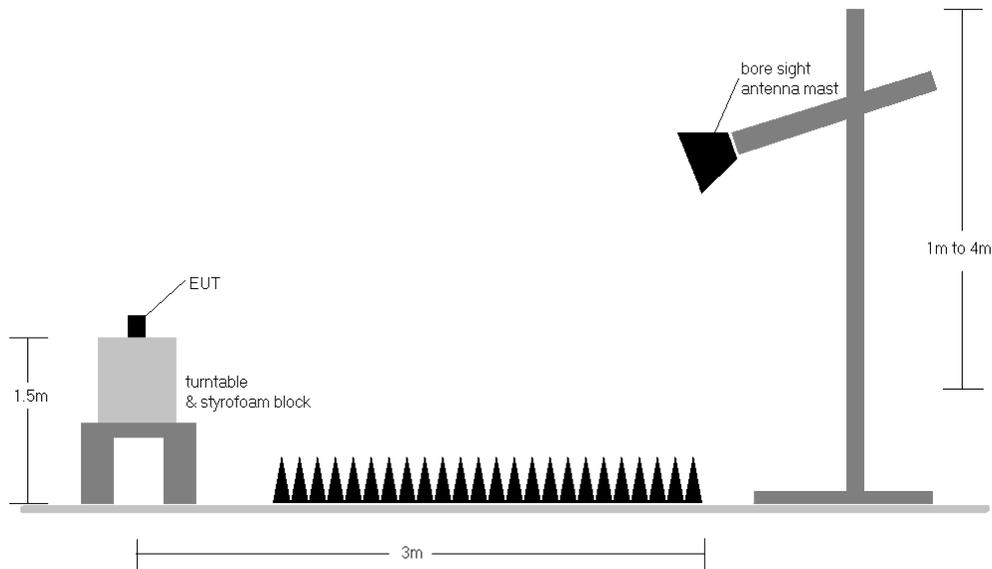


Figure 7-1. Test Instrument & Measurement Setup

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 13 of 91

Test Notes

1. All emissions that lie in the restricted bands (denoted by a * next to the frequency) specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30.
2. All spurious emissions lying in restricted bands specified in §15.205 and Section 8.10 of RSS-Gen are below the limit shown in Table 7-30. All spurious emissions that do not lie in a restricted band are subject to a peak limit of -27dBm/MHz. At a distance of 3 meters, the field strength limit in dBµV/m can be determined by adding a “conversion” factor of 95.2dB to the EIRP limit of -27dBm/MHz to obtain the limit for out of band spurious emissions of 68.2dBµV/m.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. This unit was tested with its standard battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not reported.
6. Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
7. The wide spectrum spurious emissions plots shown on the following pages are used only for the purpose of emission identification. Any emissions found to be within 20dB of the limit are fully investigated and the results are shown in this section.
8. The "-" shown in the following RSE tables are used to denote a noise floor measurement.
9. For radiated measurements, emissions were investigated for the fully-loaded RU configuration and for all of the partially-loaded RU configurations. Among all of the available partially-loaded RU configurations, only the configuration with the worst case emissions is reported.

Sample Calculations

Determining Spurious Emissions Levels

- Field Strength Level [dBµV/m] = Analyzer Level [dBm] + 107 + AFCL [dB/m]
- AFCL [dB/m] = Antenna Factor [dB/m] + Cable Loss [dB]
- Margin [dB] = Field Strength Level [dBµV/m] – Limit [dBµV/m]

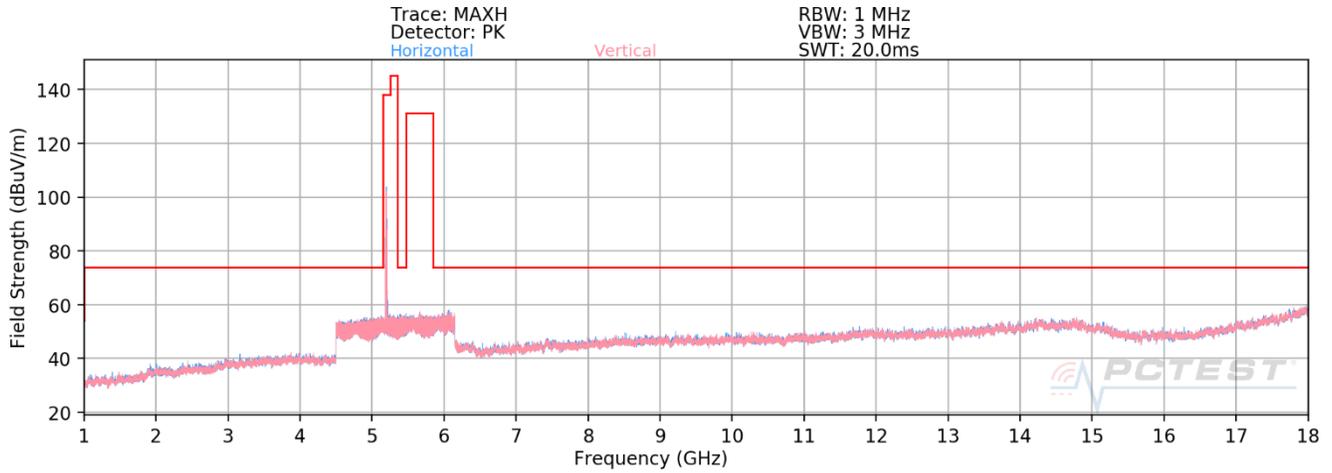
Radiated Band Edge Measurement Offset

- The amplitude offset shown in the radiated restricted band edge plots in Section Radiated Spurious Emission Measurements – Above 1GHz was calculated using the formula:
Offset (dB) = (Antenna Factor + Cable Loss + Attenuator) – Preamplifier Gain

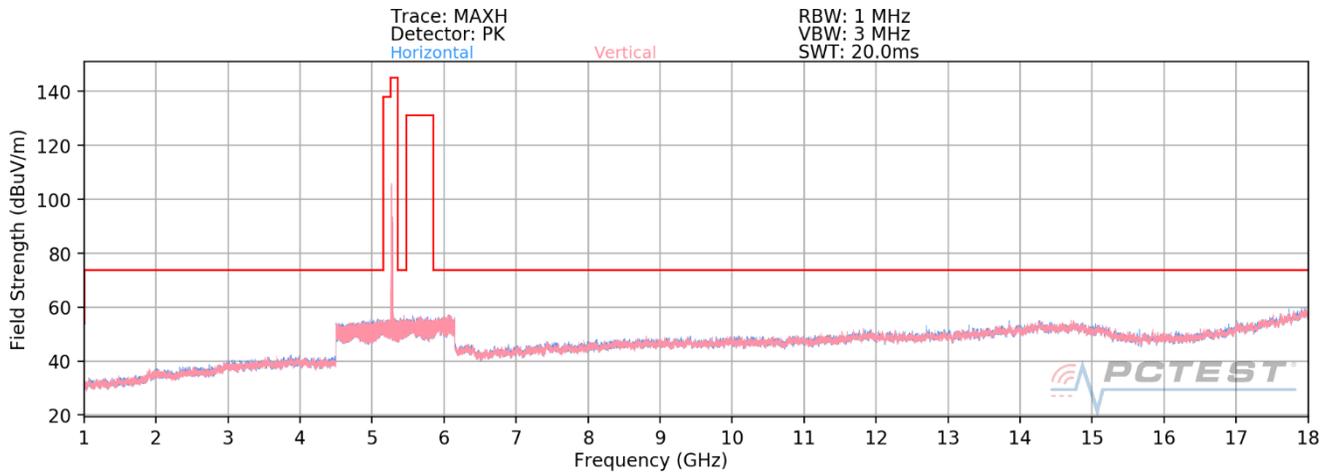
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 14 of 91

7.6.1 SISO Antenna-1 Radiated Spurious Emission Measurements

26 Tones

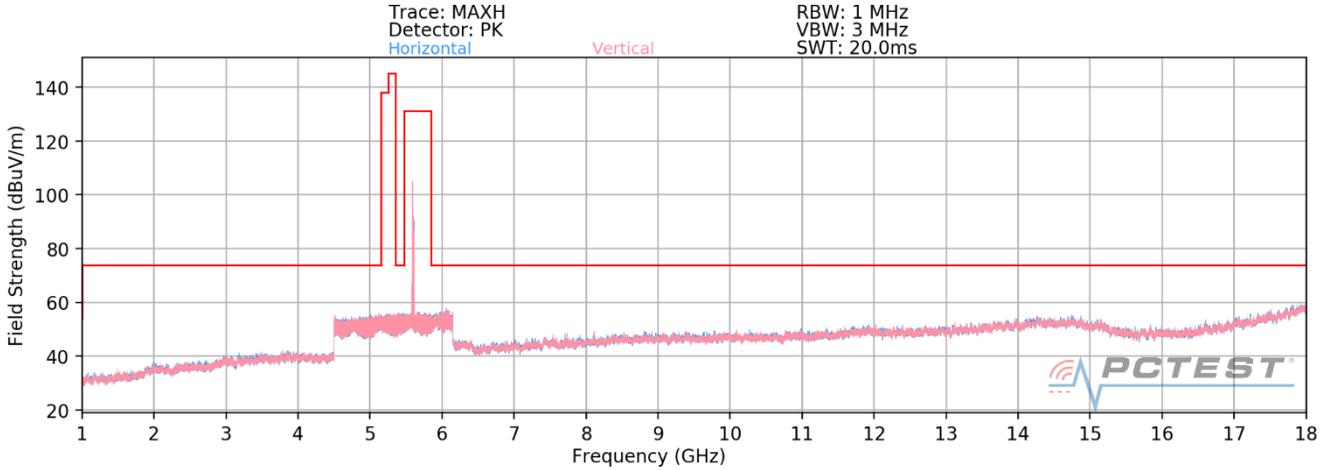


Plot 7-1. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 26 Tones)

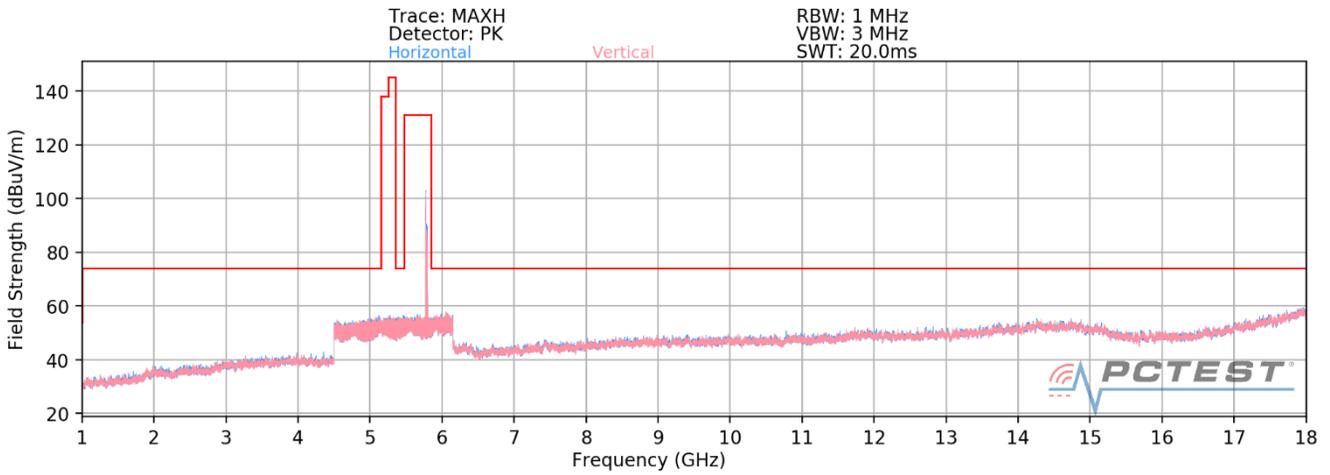


Plot 7-2. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 15 of 91



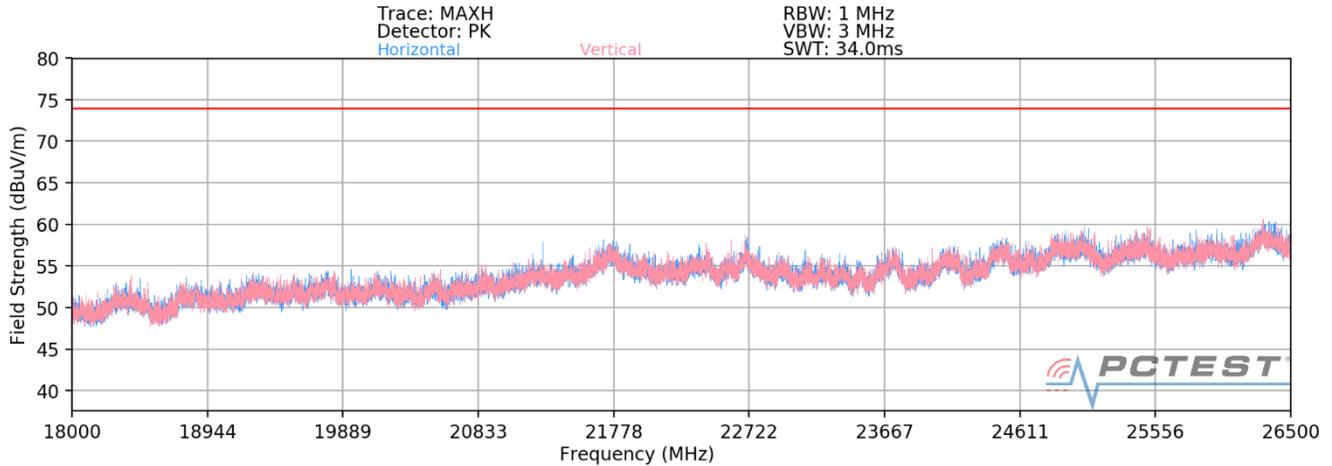
Plot 7-3. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 26 Tones)



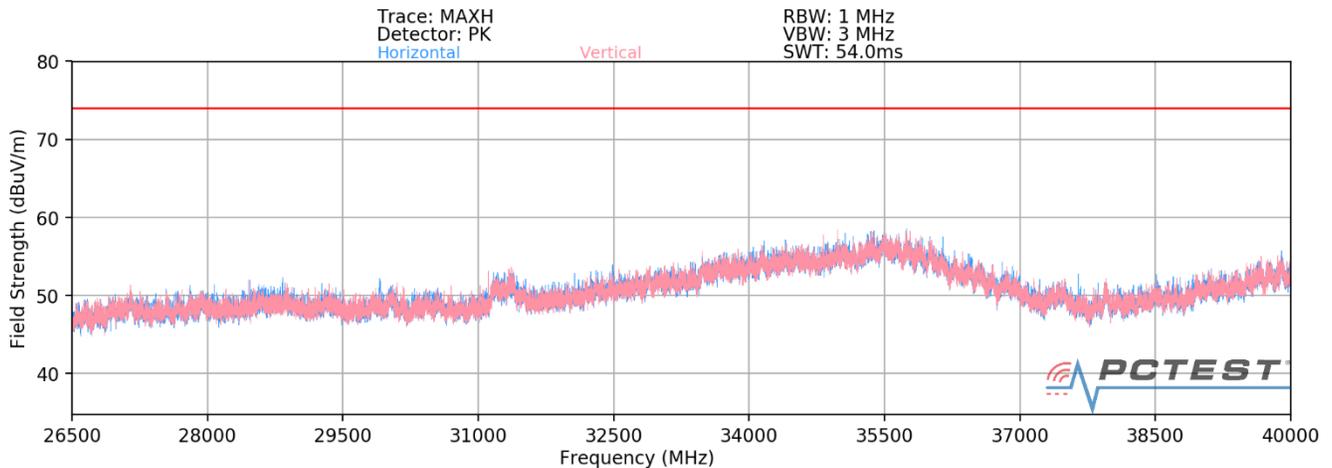
Plot 7-4. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 16 of 91

SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-5. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax - 26 Tones)



Plot 7-6. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax - 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 17 of 91

SISO Antenna-1 Radiated Spurious Emission Measurements (26 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	264	3	-69.95	15.23	0.00	52.28	68.20	-15.92
* 15540.00	Average	H	-	-	-83.53	22.71	0.00	46.18	53.98	-7.80
* 15540.00	Peak	H	-	-	-71.45	22.71	0.00	58.26	73.98	-15.72
* 20720.00	Average	H	-	-	-78.69	17.51	-9.54	36.28	53.98	-17.70
* 20720.00	Peak	H	-	-	-67.54	17.51	-9.54	47.43	73.98	-26.55
25900.00	Peak	H	-	-	-65.87	19.88	-9.54	51.47	68.20	-16.73

Table 7-3. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	211	295	-69.61	15.67	0.00	53.06	68.20	-15.14
* 15600.00	Average	H	-	-	-83.53	22.46	0.00	45.93	53.98	-8.05
* 15600.00	Peak	H	-	-	-72.00	22.46	0.00	57.46	73.98	-16.52
* 20800.00	Average	H	-	-	-78.89	17.87	-9.54	36.44	53.98	-17.54
* 20800.00	Peak	H	-	-	-67.71	17.87	-9.54	47.62	73.98	-26.36
26000.00	Peak	H	-	-	-66.11	20.15	-9.54	51.50	68.20	-16.70

Table 7-4. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600TM			MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 18 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	226	298	-69.22	15.49	0.00	53.27	68.20	-14.93
* 15720.00	Average	H	-	-	-83.44	22.45	0.00	46.01	53.98	-7.97
* 15720.00	Peak	H	-	-	-71.79	22.45	0.00	57.66	73.98	-16.32
* 20960.00	Average	H	-	-	-79.06	18.06	-9.54	36.46	53.98	-17.52
* 20960.00	Peak	H	-	-	-67.97	18.06	-9.54	47.55	73.98	-26.43
26200.00	Peak	H	-	-	-65.93	20.23	-9.54	51.76	68.20	-16.44

Table 7-5. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	216	287	-70.14	15.86	0.00	52.72	68.20	-15.48
* 15780.00	Average	H	-	-	-83.64	22.77	0.00	46.13	53.98	-7.85
* 15780.00	Peak	H	-	-	-71.71	22.77	0.00	58.06	73.98	-15.92
* 21040.00	Average	H	-	-	-78.84	18.36	-9.54	36.98	53.98	-17.00
* 21040.00	Peak	H	-	-	-67.50	18.36	-9.54	48.32	73.98	-25.66
26300.00	Peak	H	-	-	-65.92	20.96	-9.54	52.50	68.20	-15.70

Table 7-6. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 19 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	203	299	-70.04	15.70	0.00	52.66	68.20	-15.54
* 15840.00	Average	H	-	-	-83.43	22.66	0.00	46.23	53.98	-7.75
* 15840.00	Peak	H	-	-	-71.79	22.66	0.00	57.87	73.98	-16.11
* 21120.00	Average	H	-	-	-78.63	18.17	-9.54	37.00	53.98	-16.98
* 21120.00	Peak	H	-	-	-66.74	18.17	-9.54	48.89	73.98	-25.09
26400.00	Peak	H	-	-	-66.08	20.65	-9.54	52.03	68.20	-16.17

Table 7-7. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	210	291	-82.02	16.03	0.00	41.01	53.98	-12.97
* 10640.00	Peak	H	210	291	-70.89	16.03	0.00	52.14	73.98	-21.84
* 15960.00	Average	H	-	-	-83.70	23.09	0.00	46.39	53.98	-7.59
* 15960.00	Peak	H	-	-	-71.46	23.09	0.00	58.63	73.98	-15.35
* 21280.00	Average	H	-	-	-78.34	18.57	-9.54	37.69	53.98	-16.29
* 21280.00	Peak	H	-	-	-66.95	18.57	-9.54	49.08	73.98	-24.90
26600.00	Peak	H	-	-	-52.35	5.16	-9.54	50.27	68.20	-17.93

Table 7-8. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 20 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-81.97	16.51	0.00	41.54	53.98	-12.44
* 11000.00	Peak	H	-	-	-69.95	16.51	0.00	53.56	73.98	-20.42
16500.00	Peak	H	-	-	-71.40	24.17	0.00	59.77	68.20	-8.43
22000.00	Peak	H	-	-	-67.44	19.12	-9.54	49.14	68.20	-19.06
27500.00	Peak	H	-	-	-51.13	3.98	-9.54	50.31	68.20	-17.89

Table 7-9. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-82.28	16.69	0.00	41.41	53.98	-12.57
* 11200.00	Peak	H	-	-	-70.09	16.69	0.00	53.60	73.98	-20.38
16800.00	Peak	H	-	-	-71.54	23.97	0.00	59.43	68.20	-8.77
* 22400.00	Average	H	-	-	-78.84	19.90	-9.54	38.52	53.98	-15.46
* 22400.00	Peak	H	-	-	-67.64	19.90	-9.54	49.72	73.98	-24.26
28000.00	Peak	H	-	-	-50.94	4.37	-9.54	50.89	68.20	-17.31

Table 7-10. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 21 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-83.36	17.29	0.00	40.93	53.98	-13.05
* 11440.00	Peak	H	-	-	-70.42	17.29	0.00	53.87	73.98	-20.11
17160.00	Peak	H	-	-	-71.68	24.37	0.00	59.69	68.20	-8.51
* 22880.00	Average	H	-	-	-79.31	19.50	-9.54	37.65	53.98	-16.33
* 22880.00	Peak	H	-	-	-67.69	19.50	-9.54	49.27	73.98	-24.71
28600.00	Peak	H	-	-	-51.75	5.14	-9.54	50.85	68.20	-17.35

Table 7-11. Radiated Measurements SISO ANT1 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-83.30	17.63	0.00	41.33	53.98	-12.64
* 11490.00	Peak	H	-	-	-70.98	17.63	0.00	53.65	73.98	-20.32
17235.00	Peak	H	-	-	-71.93	25.01	0.00	60.08	68.20	-8.12
* 22980.00	Average	H	-	-	-78.93	19.89	-9.54	38.42	53.98	-15.56
* 22980.00	Peak	H	-	-	-67.69	19.89	-9.54	49.66	73.98	-24.32
28725.00	Peak	H	-	-	-51.94	4.66	-9.54	50.18	68.20	-18.02

Table 7-12. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 22 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-82.80	17.35	0.00	41.55	53.98	-12.43
* 11570.00	Peak	H	-	-	-70.32	17.35	0.00	54.03	73.98	-19.95
17355.00	Peak	H	-	-	-71.83	26.08	0.00	61.25	68.20	-6.95
23140.00	Peak	H	-	-	-67.20	19.59	-9.54	49.85	68.20	-18.35
28925.00	Peak	H	-	-	-52.96	4.43	-9.54	48.93	68.20	-19.27

Table 7-13. Radiated Measurements SISO ANT1 (26 Tones)

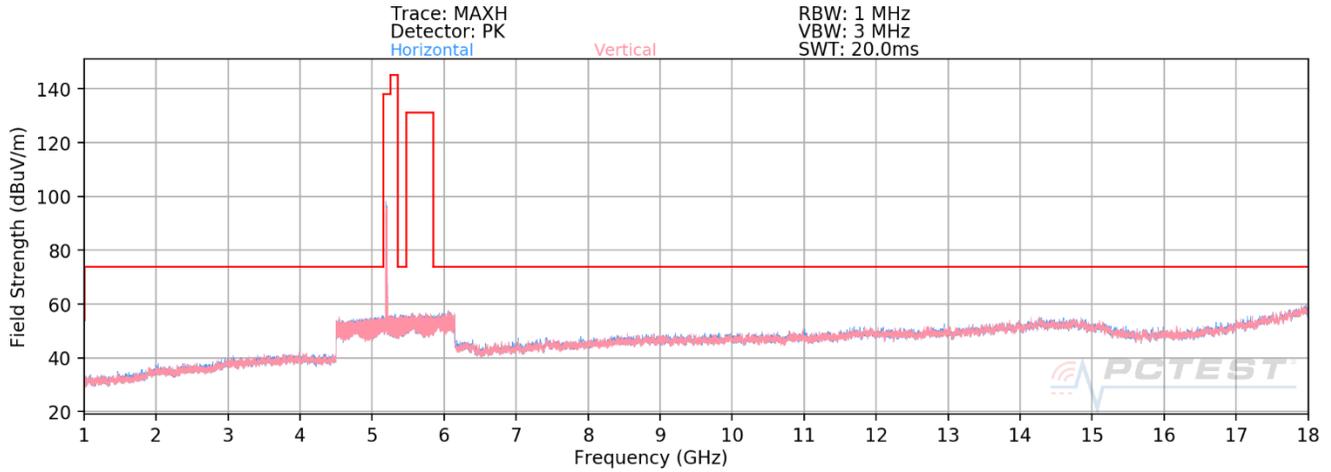
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-82.92	17.57	0.00	41.65	53.98	-12.32
* 11650.00	Peak	H	-	-	-70.49	17.57	0.00	54.08	73.98	-19.89
17475.00	Peak	H	-	-	-71.07	26.23	0.00	62.16	68.20	-6.04
23300.00	Peak	H	-	-	-67.84	18.93	-9.54	48.55	68.20	-19.65
29125.00	Peak	H	-	-	-50.89	3.48	-9.54	50.05	68.20	-18.15

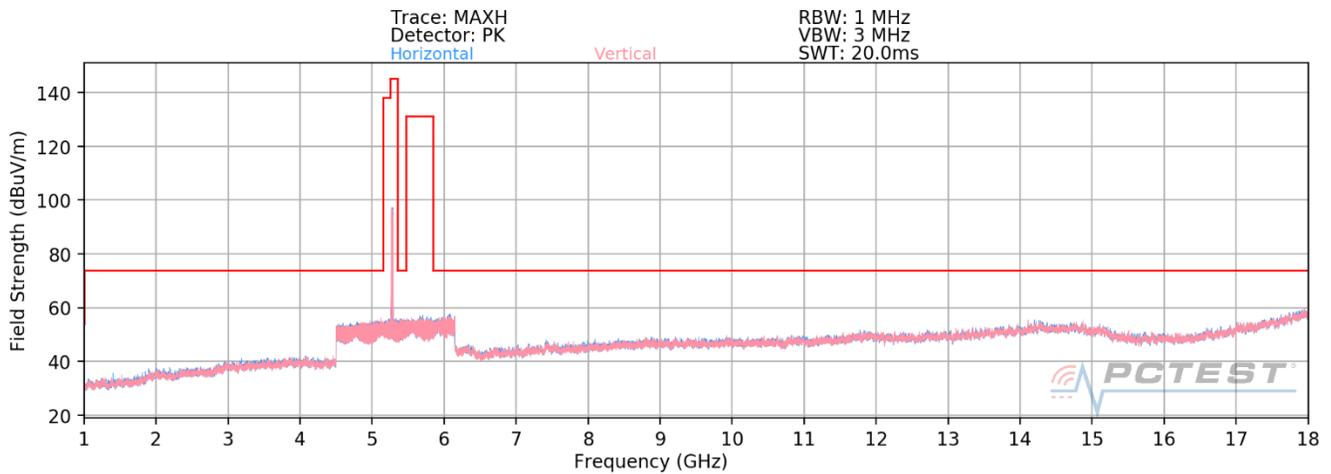
Table 7-14. Radiated Measurements SISO ANT1 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 23 of 91	

242 Tones

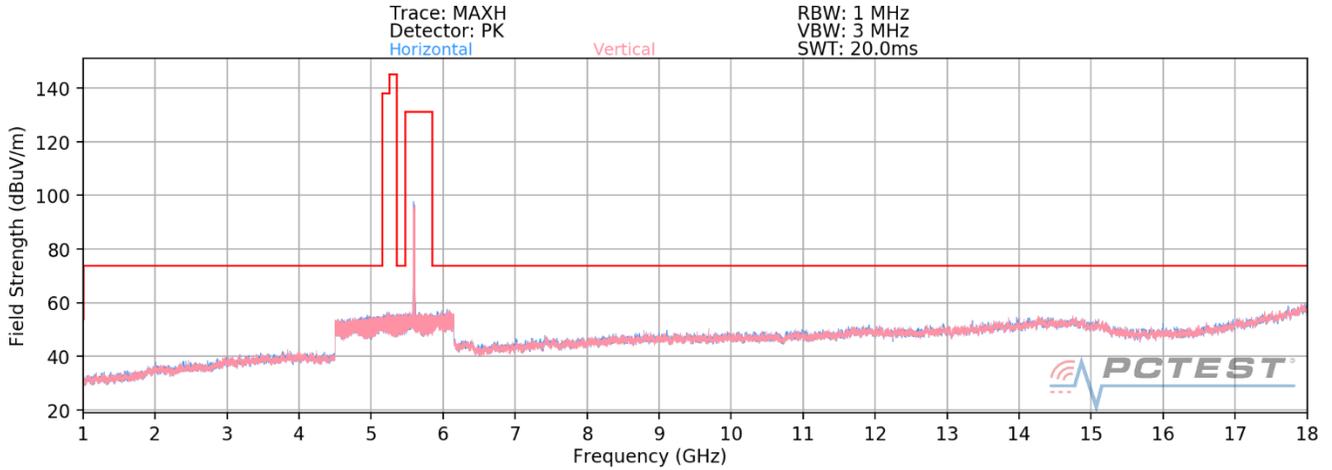


Plot 7-7. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U1 Ch. 40 – 242 Tones)

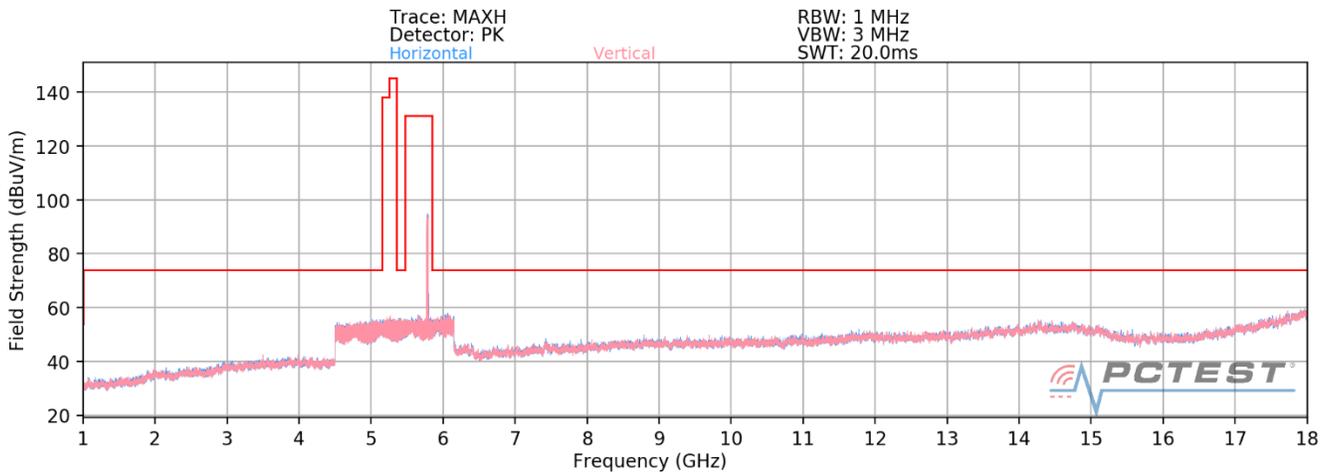


Plot 7-8. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 24 of 91



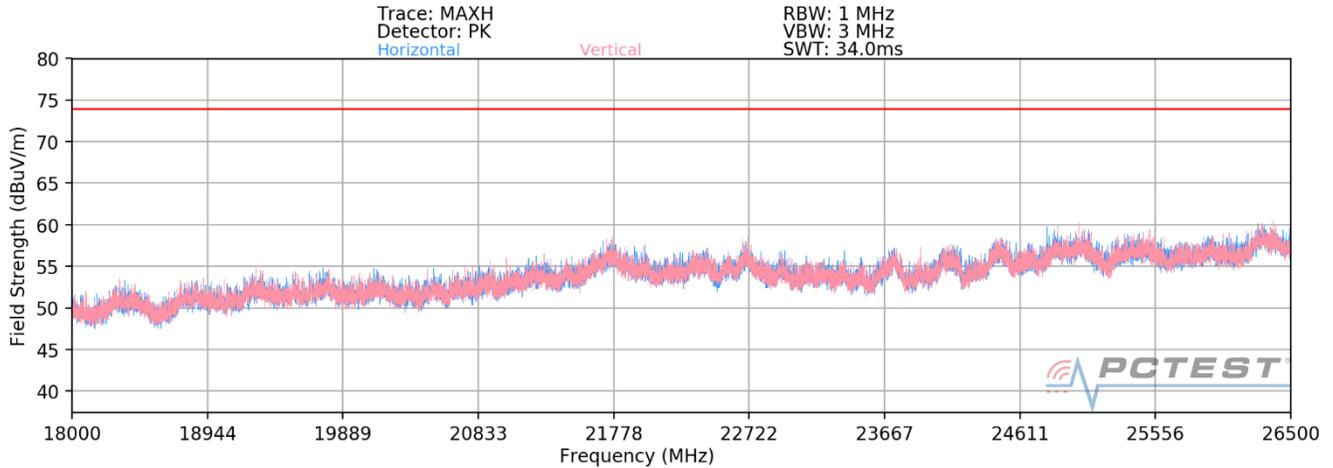
Plot 7-9. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U2C Ch. 120 – 242 Tones)



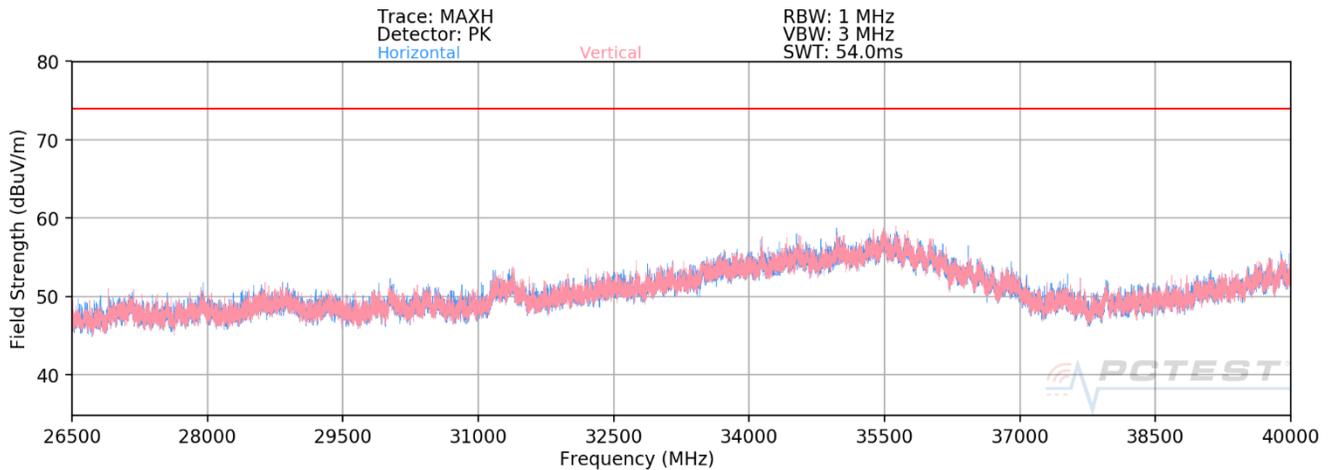
Plot 7-10. Radiated Spurious Plot above 1GHz SISO ANT1 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 25 of 91

SISO Antenna-1 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-11. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT1 (802.11ax – 242 Tones)



Plot 7-12. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT1 (802.11ax – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 26 of 91

SISO Antenna-1 Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	199	300	-70.23	15.23	0.00	52.00	68.20	-16.20
* 15540.00	Average	H	-	-	-83.60	22.71	0.00	46.11	53.98	-7.87
* 15540.00	Peak	H	-	-	-71.27	22.71	0.00	58.44	73.98	-15.54
* 20720.00	Average	H	-	-	-79.17	17.51	-9.54	35.80	53.98	-18.18
* 20720.00	Peak	H	-	-	-67.76	17.51	-9.54	47.21	73.98	-26.77
25900.00	Peak	H	-	-	-66.32	19.88	-9.54	51.02	68.20	-17.18

Table 7-15. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	204	294	-70.33	15.67	0.00	52.34	68.20	-15.86
* 15600.00	Average	H	-	-	-83.44	22.46	0.00	46.02	53.98	-7.96
* 15600.00	Peak	H	-	-	-71.32	22.46	0.00	58.14	73.98	-15.84
* 20800.00	Average	H	-	-	-78.73	17.87	-9.54	36.60	53.98	-17.38
* 20800.00	Peak	H	-	-	-67.77	17.87	-9.54	47.56	73.98	-26.42
26000.00	Peak	H	-	-	-66.24	20.15	-9.54	51.37	68.20	-16.83

Table 7-16. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 27 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	109	90	-70.49	15.49	0.00	52.00	68.20	-16.20
* 15720.00	Average	H	-	-	-83.34	22.45	0.00	46.11	53.98	-7.87
* 15720.00	Peak	H	-	-	-70.45	22.45	0.00	59.00	73.98	-14.98
* 20960.00	Average	H	-	-	-79.32	18.06	-9.54	36.20	53.98	-17.78
* 20960.00	Peak	H	-	-	-67.50	18.06	-9.54	48.02	73.98	-25.96
26200.00	Peak	H	-	-	-66.61	20.23	-9.54	51.08	68.20	-17.12

Table 7-17. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	-	-	-70.28	15.86	0.00	52.58	68.20	-15.62
* 15780.00	Average	H	-	-	-83.50	22.77	0.00	46.27	53.98	-7.71
* 15780.00	Peak	H	-	-	-71.10	22.77	0.00	58.67	73.98	-15.31
* 21040.00	Average	H	-	-	-78.73	18.36	-9.54	37.09	53.98	-16.89
* 21040.00	Peak	H	-	-	-67.73	18.36	-9.54	48.09	73.98	-25.89
26300.00	Peak	H	-	-	-64.84	20.96	-9.54	53.58	68.20	-14.62

Table 7-18. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 28 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	-	-	-70.33	15.70	0.00	52.37	68.20	-15.83
* 15840.00	Average	H	-	-	-83.61	22.66	0.00	46.05	53.98	-7.93
* 15840.00	Peak	H	-	-	-71.23	22.66	0.00	58.43	73.98	-15.55
* 21120.00	Average	H	-	-	-78.77	18.17	-9.54	36.86	53.98	-17.12
* 21120.00	Peak	H	-	-	-67.43	18.17	-9.54	48.20	73.98	-25.78
26400.00	Peak	H	-	-	-66.17	20.65	-9.54	51.94	68.20	-16.26

Table 7-19. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	-	-	-82.91	16.03	0.00	40.12	53.98	-13.86
* 10640.00	Peak	H	-	-	-70.91	16.03	0.00	52.12	73.98	-21.86
* 15960.00	Average	H	-	-	-83.75	23.09	0.00	46.34	53.98	-7.64
* 15960.00	Peak	H	-	-	-72.13	23.09	0.00	57.96	73.98	-16.02
* 21280.00	Average	H	-	-	-78.34	18.57	-9.54	37.69	53.98	-16.29
* 21280.00	Peak	H	-	-	-66.39	18.57	-9.54	49.64	73.98	-24.34
26600.00	Peak	H	-	-	-53.28	5.16	-9.54	49.34	68.20	-18.86

Table 7-20. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 29 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11000.00	Average	H	-	-	-82.25	16.51	0.00	41.26	53.98	-12.72
* 11000.00	Peak	H	-	-	-70.10	16.51	0.00	53.41	73.98	-20.57
16500.00	Peak	H	-	-	-71.46	24.17	0.00	59.71	68.20	-8.49
22000.00	Peak	H	-	-	-67.34	19.12	-9.54	49.24	68.20	-18.96
27500.00	Peak	H	-	-	-51.62	3.98	-9.54	49.82	68.20	-18.38

Table 7-21. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11200.00	Average	H	-	-	-82.26	16.69	0.00	41.43	53.98	-12.55
* 11200.00	Peak	H	-	-	-70.23	16.69	0.00	53.46	73.98	-20.52
16800.00	Peak	H	-	-	-71.85	23.97	0.00	59.12	68.20	-9.08
* 22400.00	Average	H	-	-	-78.87	19.90	-9.54	38.49	53.98	-15.49
* 22400.00	Peak	H	-	-	-67.75	19.90	-9.54	49.61	73.98	-24.37
28000.00	Peak	H	-	-	-52.14	4.37	-9.54	49.69	68.20	-18.51

Table 7-22. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 30 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	H	-	-	-83.31	17.29	0.00	40.98	53.98	-13.00
* 11440.00	Peak	H	-	-	-70.03	17.29	0.00	54.26	73.98	-19.72
17160.00	Peak	H	-	-	-70.46	24.37	0.00	60.91	68.20	-7.29
* 22880.00	Average	H	-	-	-79.17	19.50	-9.54	37.79	53.98	-16.19
* 22880.00	Peak	H	-	-	-67.80	19.50	-9.54	49.16	73.98	-24.82
28600.00	Peak	H	-	-	-50.54	5.14	-9.54	52.06	68.20	-16.14

Table 7-23. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	H	-	-	-83.30	17.63	0.00	41.33	53.98	-12.64
* 11490.00	Peak	H	-	-	-71.39	17.63	0.00	53.24	73.98	-20.73
17235.00	Peak	H	-	-	-71.70	25.01	0.00	60.31	68.20	-7.89
* 22980.00	Average	H	-	-	-78.72	19.89	-9.54	38.63	53.98	-15.35
* 22980.00	Peak	H	-	-	-67.79	19.89	-9.54	49.56	73.98	-24.42
28725.00	Peak	H	-	-	-51.76	4.66	-9.54	50.36	68.20	-17.84

Table 7-24. Radiated Measurements SISO ANT1 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 31 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	-	-	-82.89	17.35	0.00	41.46	53.98	-12.52
* 11570.00	Peak	H	-	-	-70.86	17.35	0.00	53.49	73.98	-20.49
17355.00	Peak	H	-	-	-71.91	26.08	0.00	61.17	68.20	-7.03
23140.00	Peak	H	-	-	-68.21	19.59	-9.54	48.84	68.20	-19.36
28925.00	Peak	H	-	-	-52.64	4.43	-9.54	49.25	68.20	-18.95

Table 7-25. Radiated Measurements SISO ANT1 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

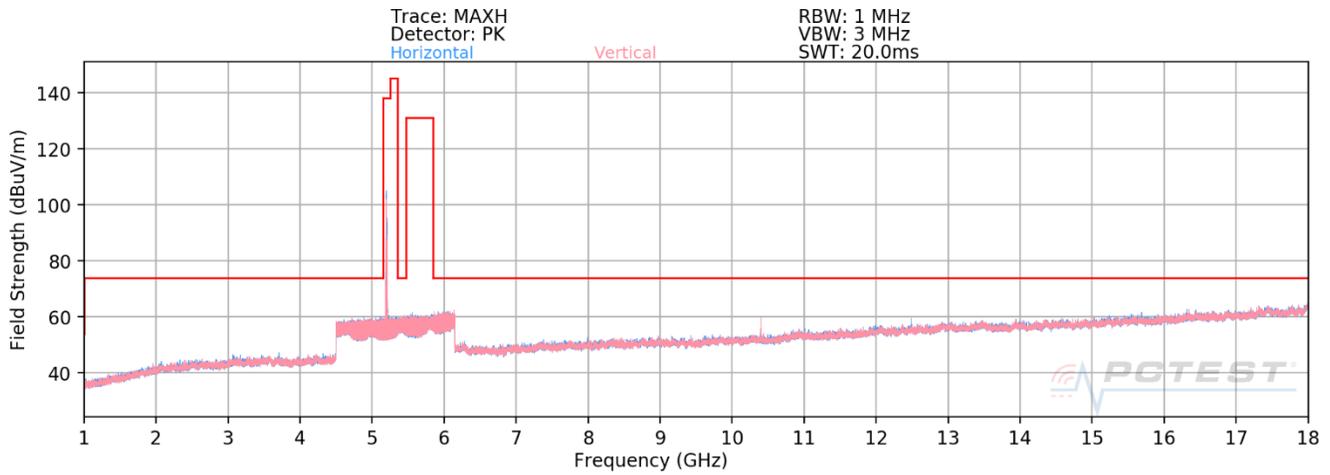
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	-	-	-83.29	17.57	0.00	41.28	53.98	-12.69
* 11650.00	Peak	H	-	-	-71.12	17.57	0.00	53.45	73.98	-20.52
17475.00	Peak	H	-	-	-72.38	26.23	0.00	60.85	68.20	-7.35
23300.00	Peak	H	-	-	-67.75	18.93	-9.54	48.64	68.20	-19.56
29125.00	Peak	H	-	-	-49.85	3.48	-9.54	51.09	68.20	-17.11

Table 7-26. Radiated Measurements SISO ANT1 (242 Tones)

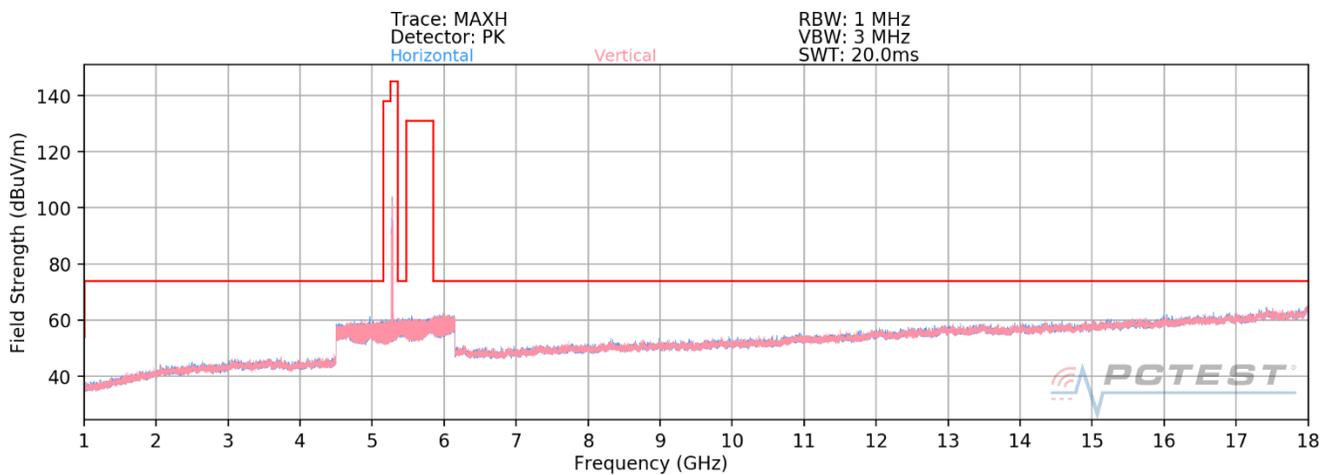
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 32 of 91	

7.6.2 SISO Antenna-2 Radiated Spurious Emission Measurements

26 Tones

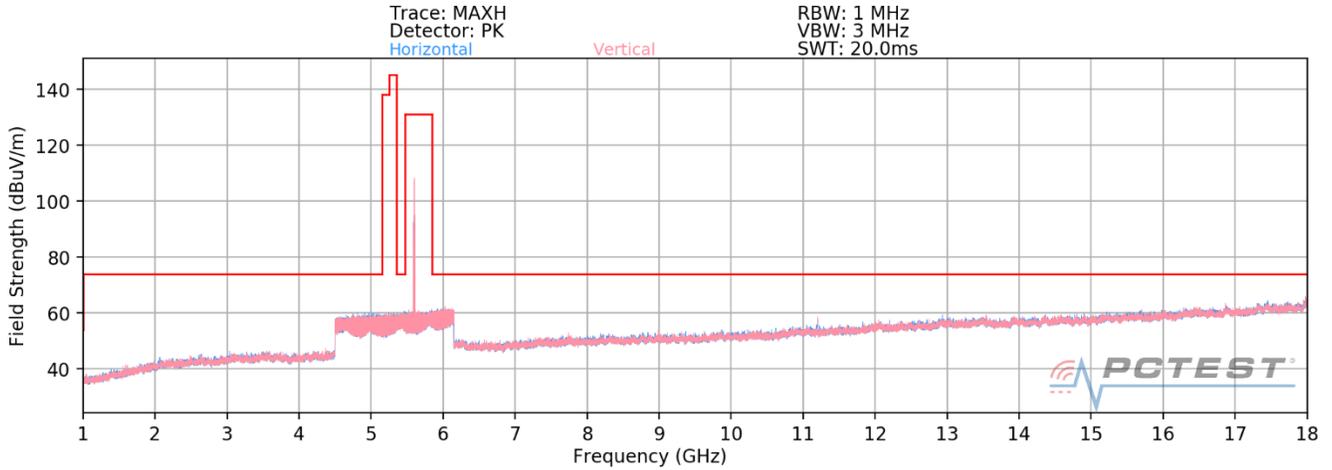


Plot 7-13. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 26 Tones)

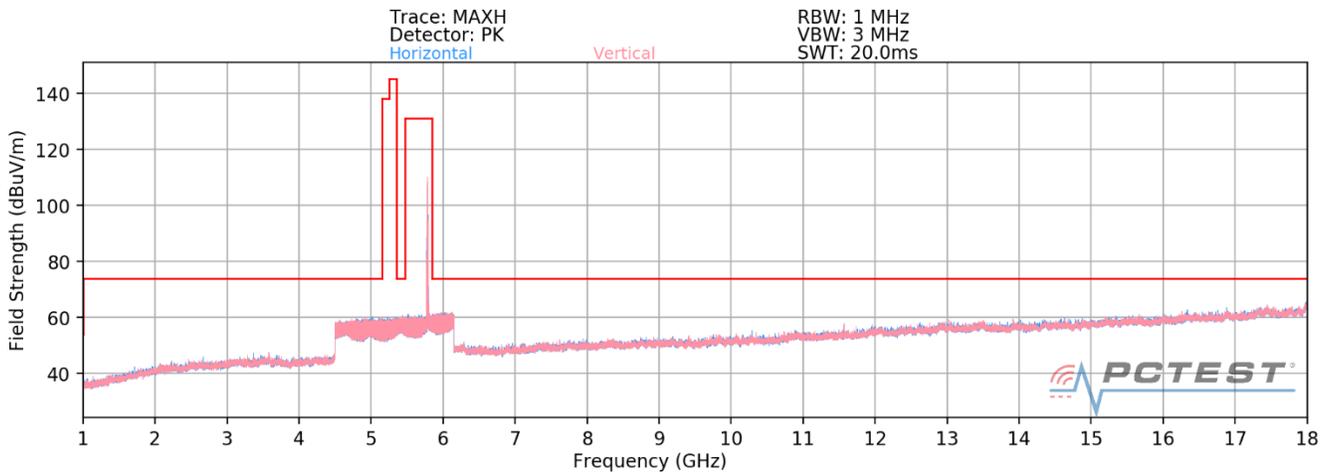


Plot 7-14. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 33 of 91



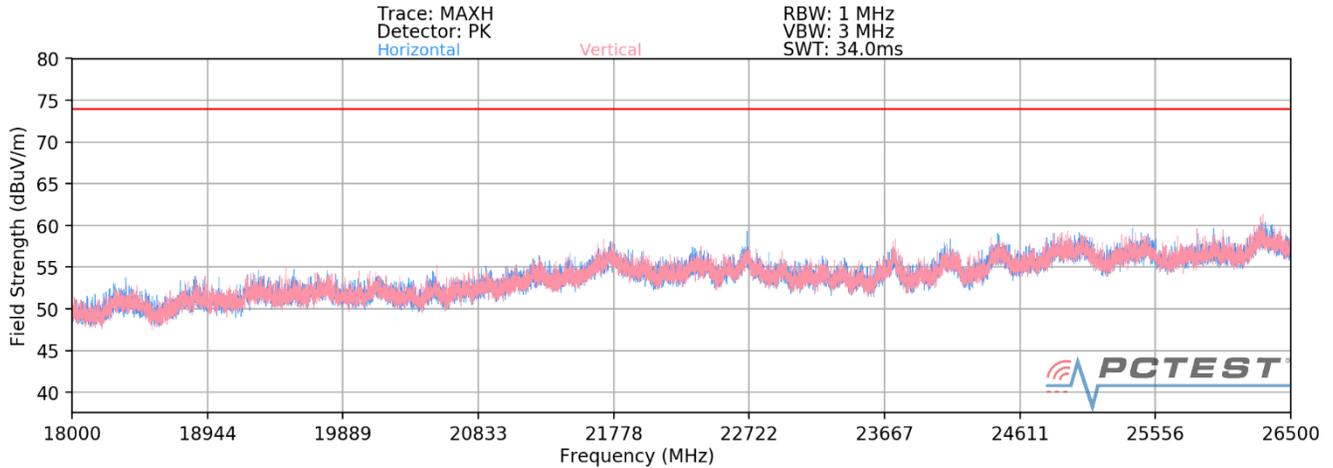
Plot 7-15. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 26 Tones)



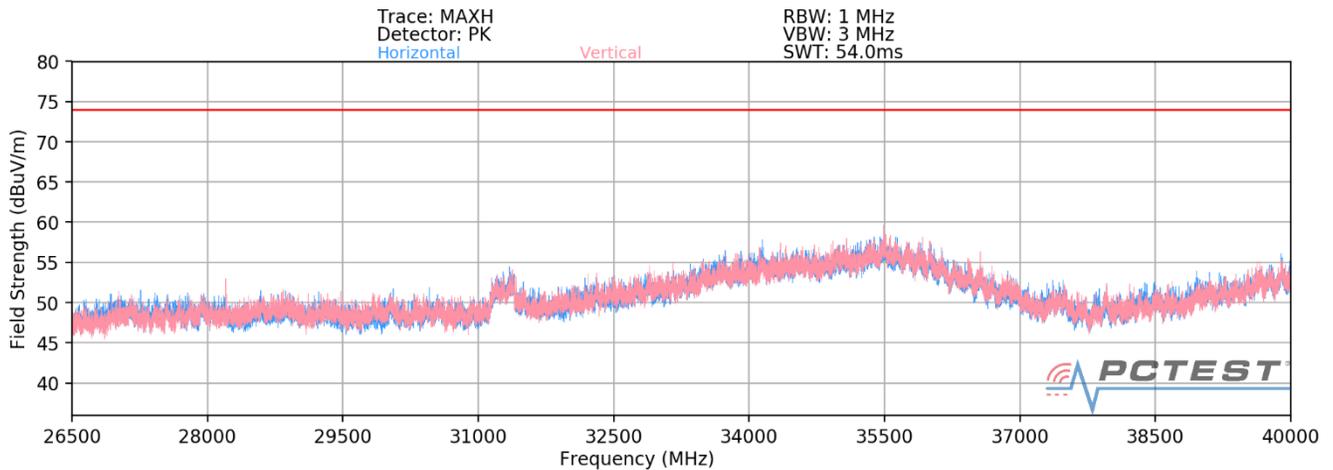
Plot 7-16. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 34 of 91

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-17. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax - 26 Tones)



Plot 7-18. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax - 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 35 of 91

SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	212	304	-67.03	15.23	0.00	55.20	68.20	-13.00
* 15540.00	Average	H	-	-	-83.40	22.71	0.00	46.31	53.98	-7.67
* 15540.00	Peak	H	-	-	-71.12	22.71	0.00	58.59	73.98	-15.39
* 20720.00	Average	H	-	-	-78.75	17.51	-9.54	36.22	53.98	-17.76
* 20720.00	Peak	H	-	-	-67.93	17.51	-9.54	47.04	73.98	-26.94
25900.00	Peak	H	-	-	-66.49	19.88	-9.54	50.85	68.20	-17.35

Table 7-27. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	218	300	-68.21	15.67	0.00	54.46	68.20	-13.74
* 15600.00	Average	H	-	-	-83.61	22.46	0.00	45.85	53.98	-8.13
* 15600.00	Peak	H	-	-	-71.22	22.46	0.00	58.24	73.98	-15.74
* 20800.00	Average	H	-	-	-79.00	17.87	-9.54	36.33	53.98	-17.65
* 20800.00	Peak	H	-	-	-67.56	17.87	-9.54	47.77	73.98	-26.21
26000.00	Peak	H	-	-	-66.55	20.15	-9.54	51.06	68.20	-17.14

Table 7-28. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 36 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	220	304	-67.01	15.49	0.00	55.48	68.20	-12.72
* 15720.00	Average	H	-	-	-83.36	22.45	0.00	46.09	53.98	-7.89
* 15720.00	Peak	H	-	-	-71.26	22.45	0.00	58.19	73.98	-15.79
* 20960.00	Average	H	-	-	-79.17	18.06	-9.54	36.35	53.98	-17.63
* 20960.00	Peak	H	-	-	-67.91	18.06	-9.54	47.61	73.98	-26.37
26200.00	Peak	H	-	-	-66.05	20.23	-9.54	51.64	68.20	-16.56

Table 7-29. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	204	298	-68.00	15.86	0.00	54.86	68.20	-13.34
* 15780.00	Average	H	-	-	-83.42	22.77	0.00	46.35	53.98	-7.63
* 15780.00	Peak	H	-	-	-71.44	22.77	0.00	58.33	73.98	-15.65
* 21040.00	Average	H	-	-	-78.68	18.36	-9.54	37.14	53.98	-16.84
* 21040.00	Peak	H	-	-	-67.54	18.36	-9.54	48.28	73.98	-25.70
26300.00	Peak	H	-	-	-64.68	20.96	-9.54	53.74	68.20	-14.46

Table 7-30. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 37 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	225	303	-68.27	15.70	0.00	54.43	68.20	-13.77
* 15840.00	Average	H	-	-	-83.51	22.66	0.00	46.15	53.98	-7.83
* 15840.00	Peak	H	-	-	-71.56	22.66	0.00	58.10	73.98	-15.88
* 21120.00	Average	H	-	-	-78.59	18.17	-9.54	37.04	53.98	-16.94
* 21120.00	Peak	H	-	-	-67.11	18.17	-9.54	48.52	73.98	-25.46
26400.00	Peak	H	-	-	-66.15	20.65	-9.54	51.96	68.20	-16.24

Table 7-31. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	221	301	-82.87	16.03	0.00	40.16	53.98	-13.82
* 10640.00	Peak	H	221	301	-68.41	16.03	0.00	54.62	73.98	-19.36
* 15960.00	Average	H	-	-	-83.82	23.09	0.00	46.27	53.98	-7.71
* 15960.00	Peak	H	-	-	-72.12	23.09	0.00	57.97	73.98	-16.01
* 21280.00	Average	H	-	-	-78.13	18.57	-9.54	37.90	53.98	-16.08
* 21280.00	Peak	H	-	-	-66.89	18.57	-9.54	49.14	73.98	-24.84
26600.00	Peak	H	-	-	-53.23	5.16	-9.54	49.39	68.20	-18.81

Table 7-32. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 38 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11000.00	Average	H	214	305	-81.05	16.51	0.00	42.46	53.98	-11.52
* 11000.00	Peak	H	214	305	-68.40	16.51	0.00	55.11	73.98	-18.87
16500.00	Peak	H	-	-	-70.63	24.17	0.00	60.54	68.20	-7.66
22000.00	Peak	H	-	-	-66.40	19.12	-9.54	50.18	68.20	-18.02
27500.00	Peak	H	-	-	-51.63	3.98	-9.54	49.81	68.20	-18.39

Table 7-33. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11200.00	Average	H	222	314	-81.15	16.69	0.00	42.54	53.98	-11.44
* 11200.00	Peak	H	222	314	-68.64	16.69	0.00	55.05	73.98	-18.93
16800.00	Peak	H	-	-	-71.43	23.97	0.00	59.54	68.20	-8.66
* 22400.00	Average	H	-	-	-78.60	19.90	-9.54	38.76	53.98	-15.22
* 22400.00	Peak	H	-	-	-67.60	19.90	-9.54	49.76	73.98	-24.22
28000.00	Peak	H	-	-	-52.62	4.37	-9.54	49.21	68.20	-18.99

Table 7-34. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	H	208	315	-82.81	17.29	0.00	41.48	53.98	-12.50
* 11440.00	Peak	H	208	315	-70.66	17.29	0.00	53.63	73.98	-20.35
17160.00	Peak	H	-	-	-71.26	24.37	0.00	60.11	68.20	-8.09
* 22880.00	Average	H	-	-	-79.13	19.50	-9.54	37.83	53.98	-16.15
* 22880.00	Peak	H	-	-	-67.39	19.50	-9.54	49.57	73.98	-24.41
28600.00	Peak	H	-	-	-52.28	5.14	-9.54	50.32	68.20	-17.88

Table 7-35. Radiated Measurements SISO ANT2 (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	H	223	309	-82.59	17.63	0.00	42.04	53.98	-11.93
* 11490.00	Peak	H	223	309	-70.79	17.63	0.00	53.84	73.98	-20.13
17235.00	Peak	H	-	-	-72.06	25.01	0.00	59.95	68.20	-8.25
* 22980.00	Average	H	-	-	-79.14	19.89	-9.54	38.21	53.98	-15.77
* 22980.00	Peak	H	-	-	-67.70	19.89	-9.54	49.65	73.98	-24.33
28725.00	Peak	H	-	-	-51.57	4.66	-9.54	50.55	68.20	-17.65

Table 7-36. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 40 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11570.00	Average	H	220	314	-82.17	17.35	0.00	42.18	53.98	-11.80
* 11570.00	Peak	H	220	314	-69.52	17.35	0.00	54.83	73.98	-19.15
17355.00	Peak	H	-	-	-72.21	26.08	0.00	60.87	68.20	-7.33
23140.00	Peak	H	-	-	-67.80	19.59	-9.54	49.25	68.20	-18.95
28925.00	Peak	H	-	-	-53.02	4.43	-9.54	48.87	68.20	-19.33

Table 7-37. Radiated Measurements SISO ANT2 (26 Tones)

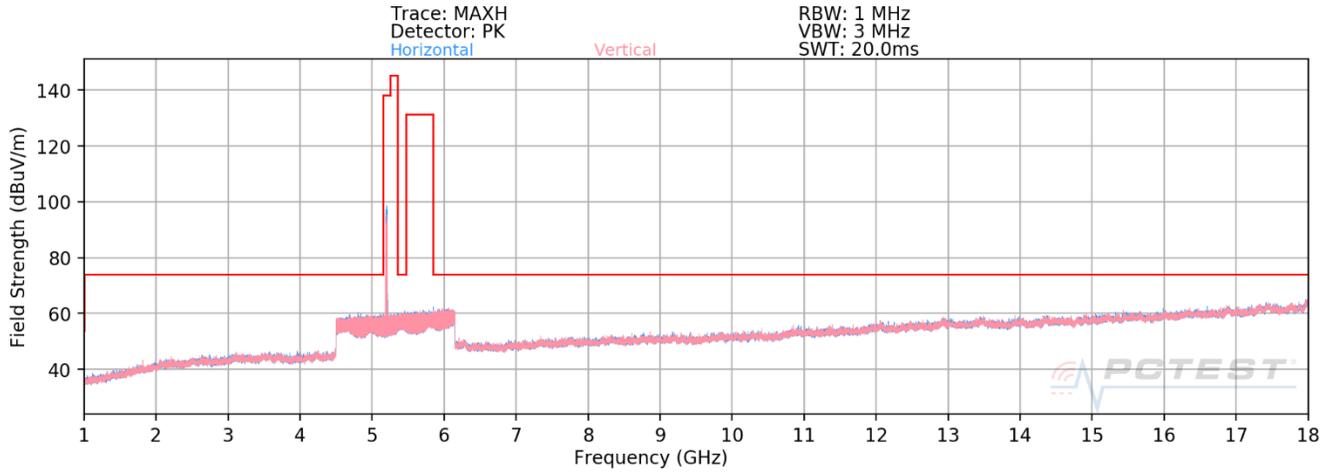
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11650.00	Average	H	217	310	-83.23	17.57	0.00	41.34	53.98	-12.63
* 11650.00	Peak	H	217	310	-70.99	17.57	0.00	53.58	73.98	-20.39
17475.00	Peak	H	-	-	-72.37	26.23	0.00	60.86	68.20	-7.34
23300.00	Peak	H	-	-	-67.40	18.93	-9.54	48.99	68.20	-19.21
29125.00	Peak	H	-	-	-50.43	3.48	-9.54	50.51	68.20	-17.69

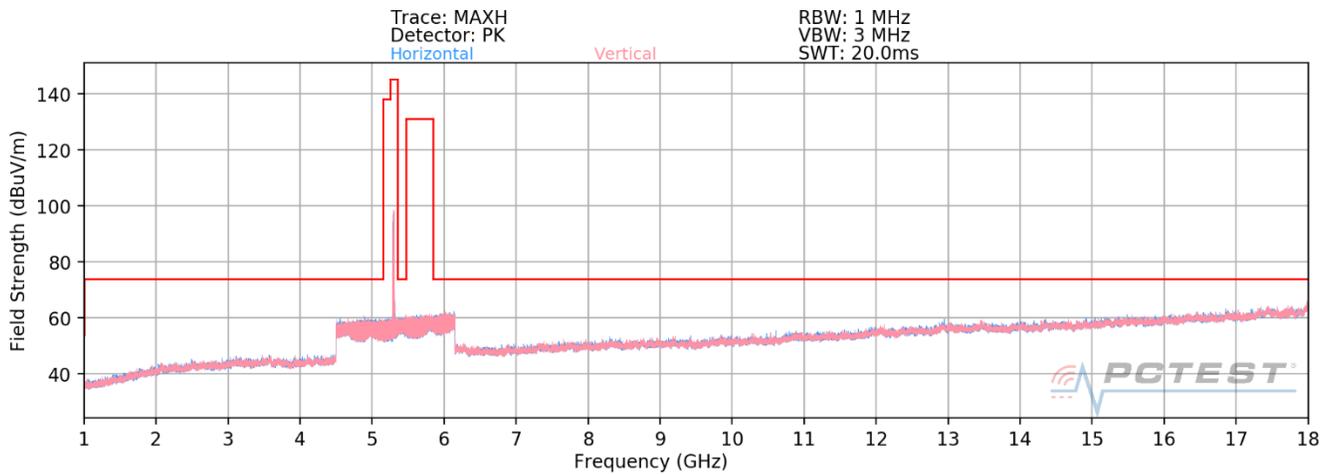
Table 7-38. Radiated Measurements SISO ANT2 (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 41 of 91	

242 Tones

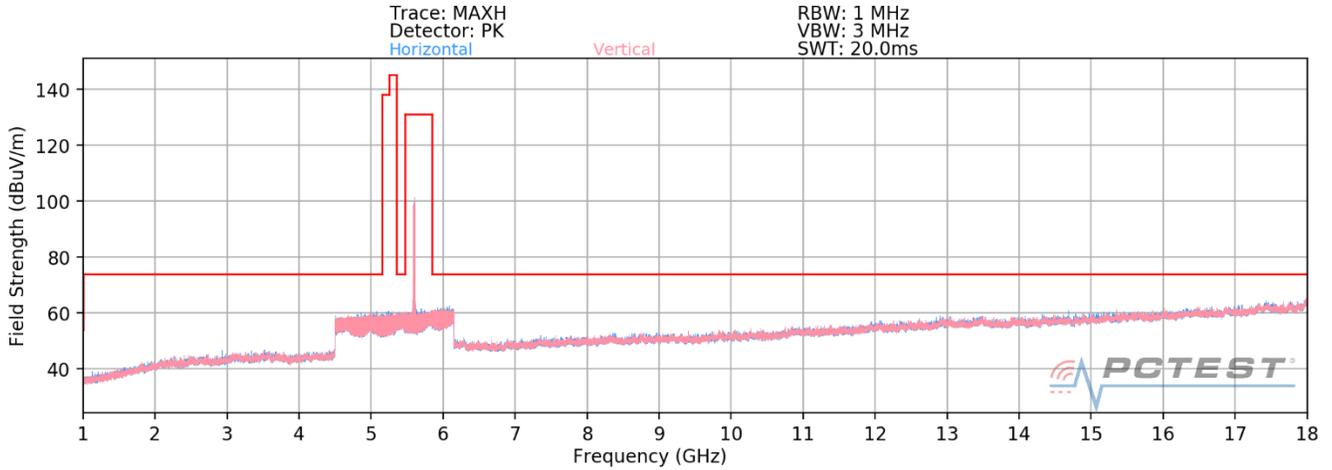


Plot 7-19. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U1 Ch. 40 – 242 Tones)

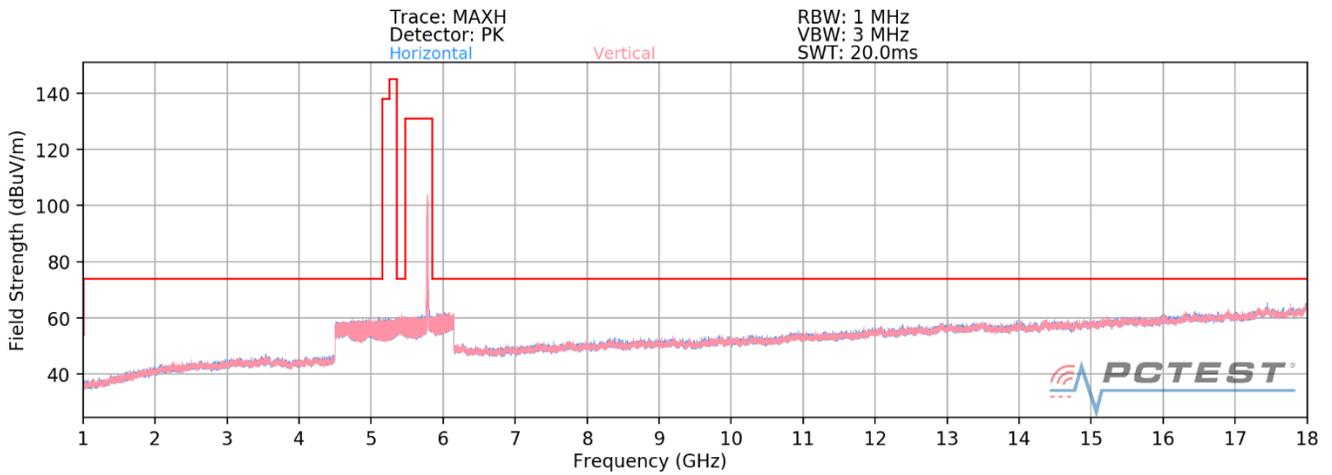


Plot 7-20. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 42 of 91



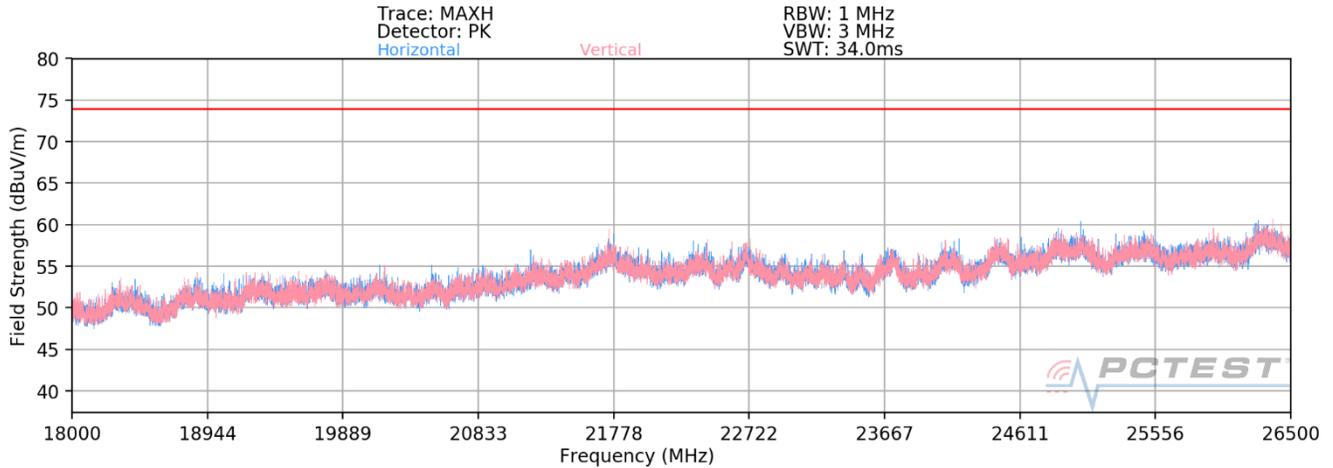
Plot 7-21. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U2C Ch. 120 – 242 Tones)



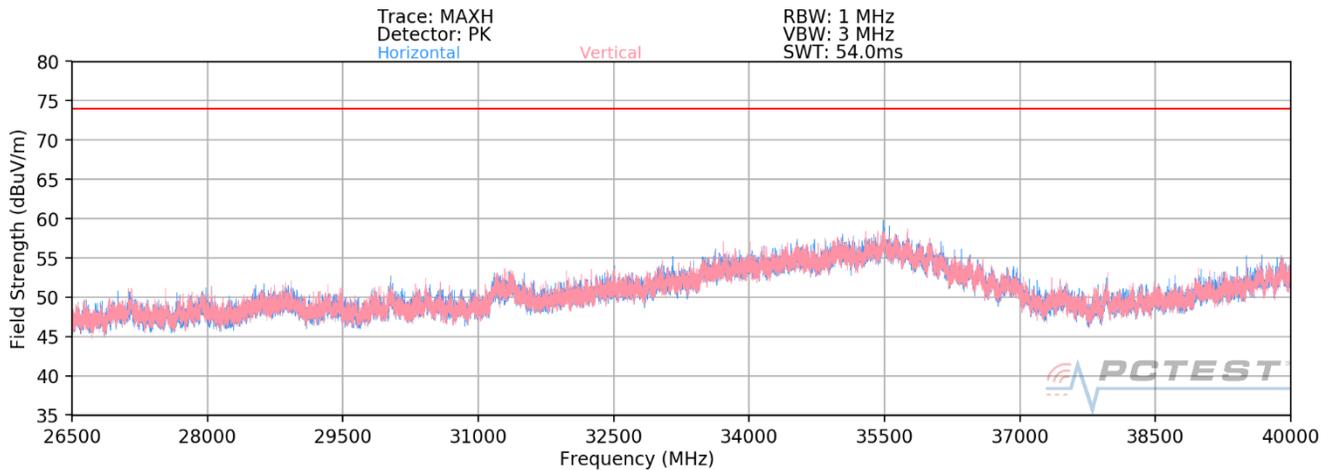
Plot 7-22. Radiated Spurious Plot above 1GHz SISO ANT2 (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 43 of 91

SISO Antenna-2 Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-23. Radiated Spurious Plot 18GHz - 26.5GHz SISO ANT2 (802.11ax – 242 Tones)



Plot 7-24. Radiated Spurious Plot 26.5GHz - 40GHz SISO ANT2 (802.11ax – 242 Tones)

FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)		LG	Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 44 of 91	

SISO Antenna-2 Radiated Spurious Emission Measurements

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	212	302	-67.12	15.23	0.00	55.11	68.20	-13.09
* 15540.00	Average	H	-	-	-83.56	22.71	0.00	46.15	53.98	-7.83
* 15540.00	Peak	H	-	-	-71.35	22.71	0.00	58.36	73.98	-15.62
* 20720.00	Average	H	-	-	-78.87	17.51	-9.54	36.10	53.98	-17.88
* 20720.00	Peak	H	-	-	-67.38	17.51	-9.54	47.59	73.98	-26.39
25900.00	Peak	H	-	-	-65.98	19.88	-9.54	51.36	68.20	-16.84

Table 7-39. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	227	303	-69.72	15.67	0.00	52.95	68.20	-15.25
* 15600.00	Average	H	-	-	-82.47	22.46	0.00	46.99	53.98	-6.99
* 15600.00	Peak	H	-	-	-70.94	22.46	0.00	58.52	73.98	-15.46
* 20800.00	Average	H	-	-	-79.05	17.87	-9.54	36.28	53.98	-17.70
* 20800.00	Peak	H	-	-	-67.57	17.87	-9.54	47.76	73.98	-26.22
26000.00	Peak	H	-	-	-66.55	20.15	-9.54	51.06	68.20	-17.14

Table 7-40. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 45 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	220	297	-69.27	15.49	0.00	53.22	68.20	-14.98
* 15720.00	Average	H	-	-	-82.71	22.45	0.00	46.74	53.98	-7.24
* 15720.00	Peak	H	-	-	-70.68	22.45	0.00	58.77	73.98	-15.21
* 20960.00	Average	H	-	-	-79.14	18.06	-9.54	36.38	53.98	-17.60
* 20960.00	Peak	H	-	-	-66.51	18.06	-9.54	49.01	73.98	-24.97
26200.00	Peak	H	-	-	-66.24	20.23	-9.54	51.45	68.20	-16.75

Table 7-41. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	230	307	-69.07	15.86	0.00	53.79	68.20	-14.41
* 15780.00	Average	H	-	-	-83.50	22.77	0.00	46.27	53.98	-7.71
* 15780.00	Peak	H	-	-	-71.12	22.77	0.00	58.65	73.98	-15.33
* 21040.00	Average	H	-	-	-78.80	18.36	-9.54	37.02	53.98	-16.96
* 21040.00	Peak	H	-	-	-67.94	18.36	-9.54	47.88	73.98	-26.10
26300.00	Peak	H	-	-	-65.38	20.96	-9.54	53.04	68.20	-15.16

Table 7-42. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 46 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	H	222	304	-69.22	15.70	0.00	53.48	68.20	-14.72
* 15840.00	Average	H	-	-	-83.67	22.66	0.00	45.99	53.98	-7.99
* 15840.00	Peak	H	-	-	-70.99	22.66	0.00	58.67	73.98	-15.31
* 21120.00	Average	H	-	-	-78.63	18.17	-9.54	37.00	53.98	-16.98
* 21120.00	Peak	H	-	-	-67.24	18.17	-9.54	48.39	73.98	-25.59
26400.00	Peak	H	-	-	-65.33	20.65	-9.54	52.78	68.20	-15.42

Table 7-43. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 10640.00	Average	H	219	306	-82.00	16.03	0.00	41.03	53.98	-12.95
* 10640.00	Peak	H	219	306	-70.02	16.03	0.00	53.01	73.98	-20.97
* 15960.00	Average	H	-	-	-83.81	23.09	0.00	46.28	53.98	-7.70
* 15960.00	Peak	H	-	-	-71.53	23.09	0.00	58.56	73.98	-15.42
* 21280.00	Average	H	-	-	-78.40	18.57	-9.54	37.63	53.98	-16.35
* 21280.00	Peak	H	-	-	-67.23	18.57	-9.54	48.80	73.98	-25.18
26600.00	Peak	H	-	-	-53.31	5.16	-9.54	49.31	68.20	-18.89

Table 7-44. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 47 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11000.00	Average	H	179	298	-81.78	16.51	0.00	41.73	53.98	-12.25
* 11000.00	Peak	H	179	298	-69.42	16.51	0.00	54.09	73.98	-19.89
16500.00	Peak	H	-	-	-71.29	24.17	0.00	59.88	68.20	-8.32
22000.00	Peak	H	-	-	-67.10	19.12	-9.54	49.48	68.20	-18.72
27500.00	Peak	H	-	-	-51.56	3.98	-9.54	49.88	68.20	-18.32

Table 7-45. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11200.00	Average	H	168	305	-81.33	16.69	0.00	42.36	53.98	-11.62
* 11200.00	Peak	H	168	305	-68.99	16.69	0.00	54.70	73.98	-19.28
16800.00	Peak	H	-	-	-72.32	23.97	0.00	58.65	68.20	-9.55
* 22400.00	Average	H	-	-	-78.83	19.90	-9.54	38.53	53.98	-15.45
* 22400.00	Peak	H	-	-	-66.93	19.90	-9.54	50.43	73.98	-23.55
28000.00	Peak	H	-	-	-52.29	4.37	-9.54	49.54	68.20	-18.66

Table 7-46. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 48 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	172	301	-81.27	17.29	0.00	43.02	53.98	-10.96
* 11440.00	Peak	H	172	301	-69.01	17.29	0.00	55.28	73.98	-18.70
17160.00	Peak	H	-	-	-72.21	24.37	0.00	59.16	68.20	-9.04
* 22880.00	Average	H	-	-	-79.29	19.50	-9.54	37.67	53.98	-16.31
* 22880.00	Peak	H	-	-	-68.20	19.50	-9.54	48.76	73.98	-25.22
28600.00	Peak	H	-	-	-51.73	5.14	-9.54	50.87	68.20	-17.33

Table 7-47. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	131	313	-82.70	17.63	0.00	41.93	53.98	-12.04
* 11490.00	Peak	H	131	313	-70.83	17.63	0.00	53.80	73.98	-20.17
17235.00	Peak	H	-	-	-71.92	25.01	0.00	60.09	68.20	-8.11
* 22980.00	Average	H	-	-	-79.10	19.89	-9.54	38.25	53.98	-15.73
* 22980.00	Peak	H	-	-	-67.95	19.89	-9.54	49.40	73.98	-24.58
28725.00	Peak	H	-	-	-51.59	4.66	-9.54	50.53	68.20	-17.67

Table 7-48. Radiated Measurements SISO ANT2 (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 49 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	120	310	-81.98	17.35	0.00	42.37	53.98	-11.61
* 11570.00	Peak	H	120	310	-70.44	17.35	0.00	53.91	73.98	-20.07
17355.00	Peak	H	-	-	-71.36	26.08	0.00	61.72	68.20	-6.48
23140.00	Peak	H	-	-	-67.99	19.59	-9.54	49.06	68.20	-19.14
28925.00	Peak	H	-	-	-51.98	4.43	-9.54	49.91	68.20	-18.29

Table 7-49. Radiated Measurements SISO ANT2 (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

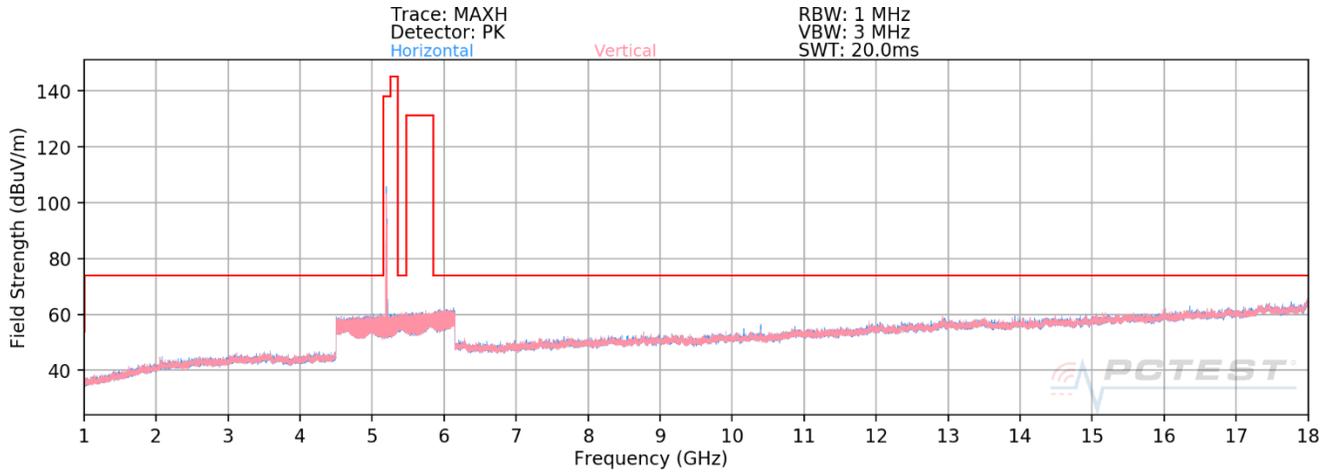
Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	124	308	-82.27	17.57	0.00	42.30	53.98	-11.67
* 11650.00	Peak	H	124	308	-70.49	17.57	0.00	54.08	73.98	-19.89
17475.00	Peak	H	-	-	-71.48	26.23	0.00	61.75	68.20	-6.45
23300.00	Peak	H	-	-	-67.16	18.93	-9.54	49.23	68.20	-18.97
29125.00	Peak	H	-	-	-50.51	3.48	-9.54	50.43	68.20	-17.77

Table 7-50. Radiated Measurements SISO ANT2 (242 Tones)

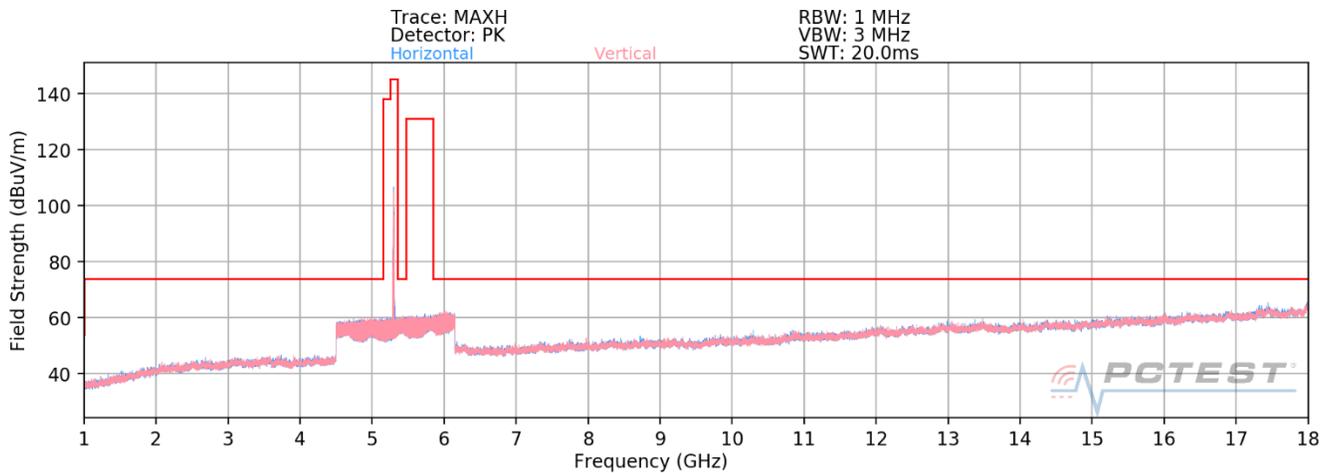
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 50 of 91	

7.6.3 MIMO Radiated Spurious Emission Measurements

26 Tones

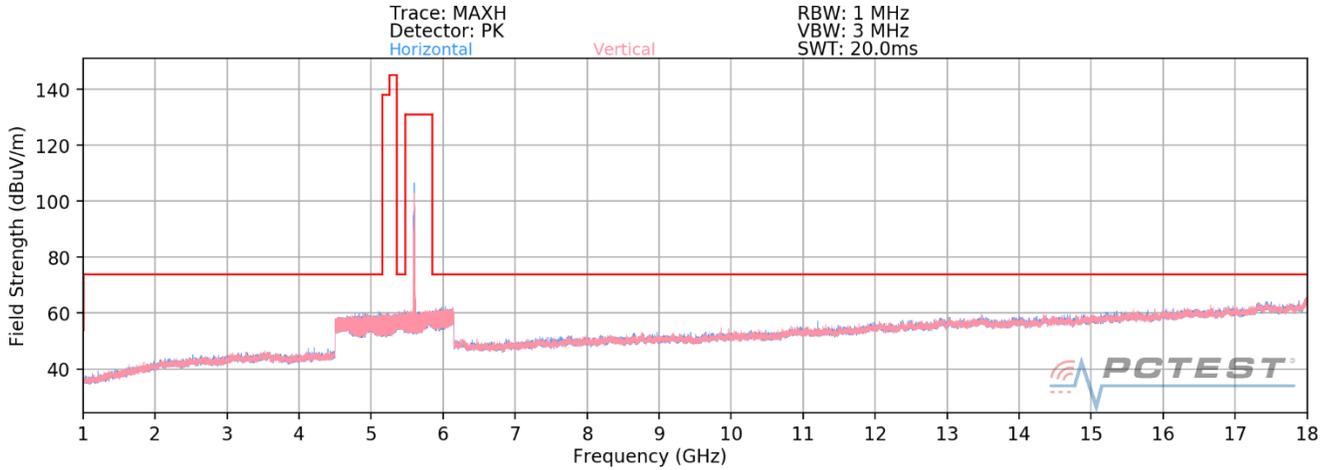


Plot 7-25. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 26 Tones)

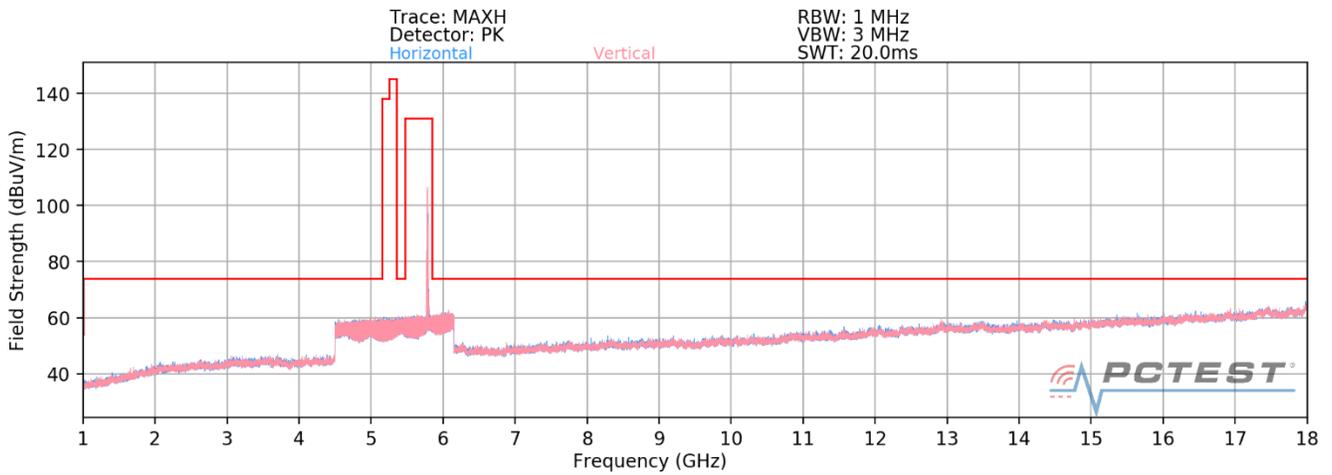


Plot 7-26. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 51 of 91



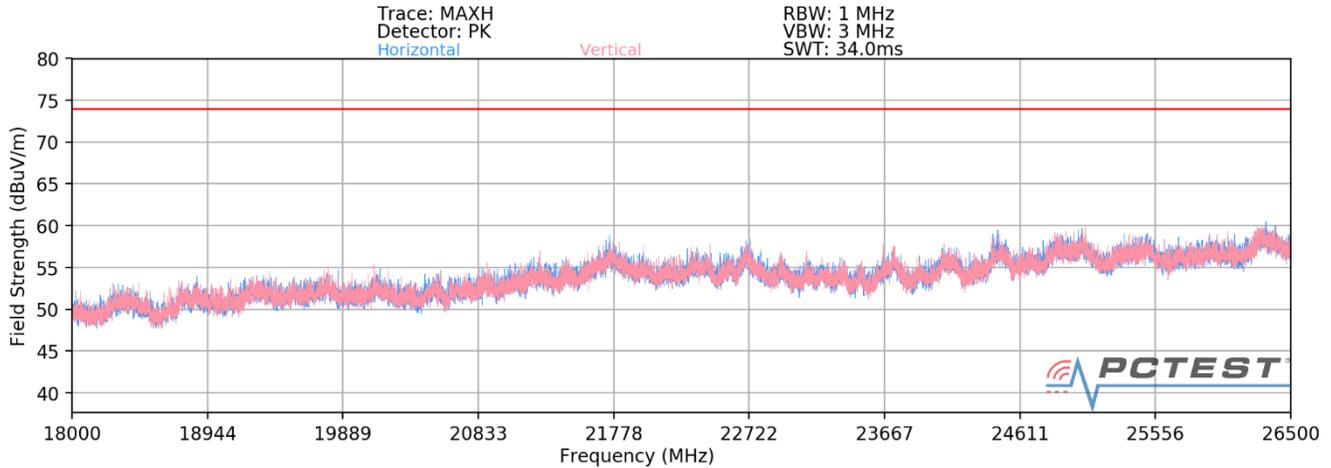
Plot 7-27. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 26 Tones)



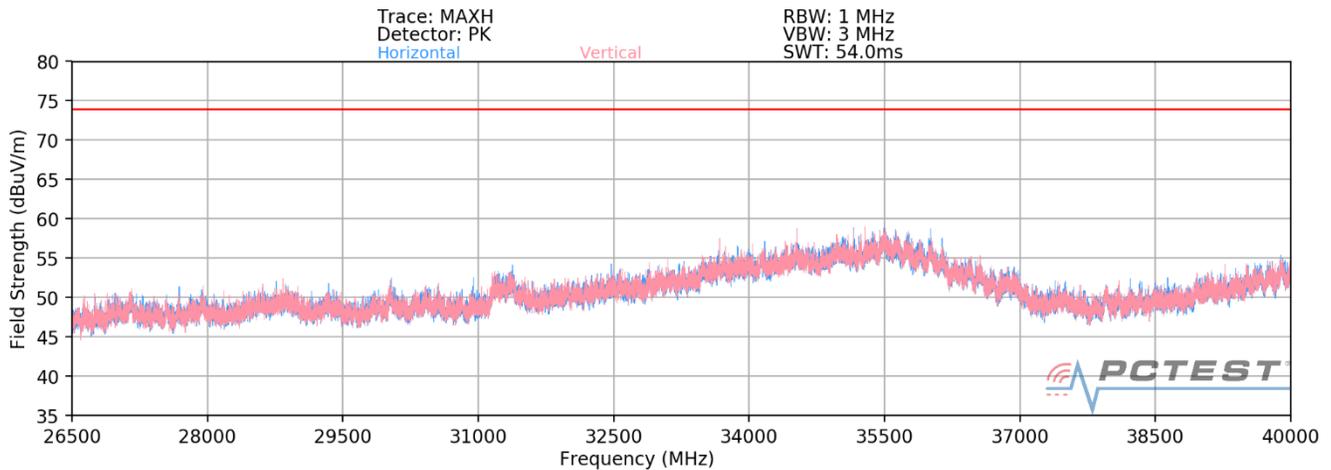
Plot 7-28. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 52 of 91

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-29. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 26 Tones)



Plot 7-30. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 53 of 91

MIMO Radiated Spurious Emission Measurements (26 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	199	293	-66.45	15.23	0.00	55.78	68.20	-12.42
* 15540.00	Average	H	-	-	-83.63	22.71	0.00	46.08	53.98	-7.90
* 15540.00	Peak	H	-	-	-71.06	22.71	0.00	58.65	73.98	-15.33
* 20720.00	Average	H	-	-	-79.00	17.51	-9.54	35.97	53.98	-18.01
* 20720.00	Peak	H	-	-	-67.31	17.51	-9.54	47.66	73.98	-26.32
25900.00	Peak	H	-	-	-65.82	19.88	-9.54	51.52	68.20	-16.68

Table 7-51. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	202	297	-66.35	15.67	0.00	56.32	68.20	-11.88
* 15600.00	Average	H	-	-	-83.30	22.46	0.00	46.16	53.98	-7.82
* 15600.00	Peak	H	-	-	-71.59	22.46	0.00	57.87	73.98	-16.11
* 20800.00	Average	H	-	-	-78.90	17.87	-9.54	36.43	53.98	-17.55
* 20800.00	Peak	H	-	-	-68.04	17.87	-9.54	47.29	73.98	-26.69
26000.00	Peak	H	-	-	-66.26	20.15	-9.54	51.35	68.20	-16.85

Table 7-52. Radiated Measurements MIMO (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 54 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10480.00	Peak	H	197	290	-66.42	15.49	0.00	56.07	68.20	-12.13
* 15720.00	Average	H	-	-	-83.47	22.45	0.00	45.98	53.98	-8.00
* 15720.00	Peak	H	-	-	-71.25	22.45	0.00	58.20	73.98	-15.78
* 20960.00	Average	H	-	-	-79.45	18.06	-9.54	36.07	53.98	-17.91
* 20960.00	Peak	H	-	-	-67.84	18.06	-9.54	47.68	73.98	-26.30
26200.00	Peak	H	-	-	-66.55	20.23	-9.54	51.14	68.20	-17.06

Table 7-53. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10520.00	Peak	H	187	287	-67.07	15.86	0.00	55.79	68.20	-12.41
* 15780.00	Average	H	-	-	-83.57	22.77	0.00	46.20	53.98	-7.78
* 15780.00	Peak	H	-	-	-70.75	22.77	0.00	59.02	73.98	-14.96
* 21040.00	Average	H	-	-	-78.83	18.36	-9.54	36.99	53.98	-16.99
* 21040.00	Peak	H	-	-	-67.92	18.36	-9.54	47.90	73.98	-26.08
26300.00	Peak	H	-	-	-65.88	20.96	-9.54	52.54	68.20	-15.66

Table 7-54. Radiated Measurements MIMO (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 55 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10560.00	Peak	H	191	292	-67.21	15.70	0.00	55.49	68.20	-12.71
* 15840.00	Average	H	-	-	-83.68	22.66	0.00	45.98	53.98	-8.00
* 15840.00	Peak	H	-	-	-70.84	22.66	0.00	58.82	73.98	-15.16
* 21120.00	Average	H	-	-	-78.90	18.17	-9.54	36.73	53.98	-17.25
* 21120.00	Peak	H	-	-	-67.84	18.17	-9.54	47.79	73.98	-26.19
* 26400.00	Peak	H	-	-	-66.14	20.65	-9.54	51.97	68.20	-16.23

Table 7-55. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 10640.00	Average	H	213	289	-81.33	16.03	0.00	41.70	53.98	-12.28
* 10640.00	Peak	H	213	289	-72.91	16.03	0.00	50.12	73.98	-23.86
* 15960.00	Average	H	-	-	-83.90	23.09	0.00	46.19	53.98	-7.79
* 15960.00	Peak	H	-	-	-71.21	23.09	0.00	58.88	73.98	-15.10
* 21280.00	Average	H	-	-	-78.36	18.57	-9.54	37.67	53.98	-16.31
* 21280.00	Peak	H	-	-	-66.98	18.57	-9.54	49.05	73.98	-24.93
* 26600.00	Peak	H	-	-	-53.33	5.16	-9.54	49.29	68.20	-18.91

Table 7-56. Radiated Measurements MIMO (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 56 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11000.00	Average	H	207	303	-81.28	16.51	0.00	42.23	53.98	-11.75
* 11000.00	Peak	H	207	303	-69.59	16.51	0.00	53.92	73.98	-20.06
16500.00	Peak	H	-	-	-71.42	24.17	0.00	59.75	68.20	-8.45
22000.00	Peak	H	-	-	-67.46	19.12	-9.54	49.12	68.20	-19.08
27500.00	Peak	H	-	-	-51.94	3.98	-9.54	49.50	68.20	-18.70

Table 7-57. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11200.00	Average	H	210	299	-80.67	16.69	0.00	43.02	53.98	-10.96
* 11200.00	Peak	H	210	299	-67.56	16.69	0.00	56.13	73.98	-17.85
16800.00	Peak	H	-	-	-70.66	23.97	0.00	60.31	68.20	-7.89
* 22400.00	Average	H	-	-	-79.00	19.90	-9.54	38.36	53.98	-15.62
* 22400.00	Peak	H	-	-	-66.86	19.90	-9.54	50.50	73.98	-23.48
28000.00	Peak	H	-	-	-51.26	4.37	-9.54	50.57	68.20	-17.63

Table 7-58. Radiated Measurements MIMO (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 57 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11440.00	Average	H	212	302	-80.89	17.29	0.00	43.40	53.98	-10.58
* 11440.00	Peak	H	212	302	-67.71	17.29	0.00	56.58	73.98	-17.40
17160.00	Peak	H	-	-	-70.84	24.37	0.00	60.53	68.20	-7.67
* 22880.00	Average	H	-	-	-79.44	19.50	-9.54	37.52	53.98	-16.46
* 22880.00	Peak	H	-	-	-68.13	19.50	-9.54	48.83	73.98	-25.15
28600.00	Peak	H	-	-	-51.16	5.14	-9.54	51.44	68.20	-16.76

Table 7-59. Radiated Measurements MIMO (26 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11490.00	Average	H	207	312	-82.67	17.63	0.00	41.96	53.98	-12.01
* 11490.00	Peak	H	207	312	-70.42	17.63	0.00	54.21	73.98	-19.76
17235.00	Peak	H	-	-	-72.29	25.01	0.00	59.72	68.20	-8.48
* 22980.00	Average	H	-	-	-79.21	19.89	-9.54	38.14	53.98	-15.84
* 22980.00	Peak	H	-	-	-67.73	19.89	-9.54	49.62	73.98	-24.36
28725.00	Peak	H	-	-	-50.36	4.66	-9.54	51.76	68.20	-16.44

Table 7-60. Radiated Measurements MIMO (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 58 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11570.00	Average	H	204	315	-82.49	17.35	0.00	41.86	53.98	-12.12
* 11570.00	Peak	H	204	315	-70.04	17.35	0.00	54.31	73.98	-19.67
17355.00	Peak	H	-	-	-71.53	26.08	0.00	61.55	68.20	-6.65
23140.00	Peak	H	-	-	-68.32	19.59	-9.54	48.73	68.20	-19.47
28925.00	Peak	H	-	-	-52.43	4.43	-9.54	49.46	68.20	-18.74

Table 7-61. Radiated Measurements MIMO (26 Tones)

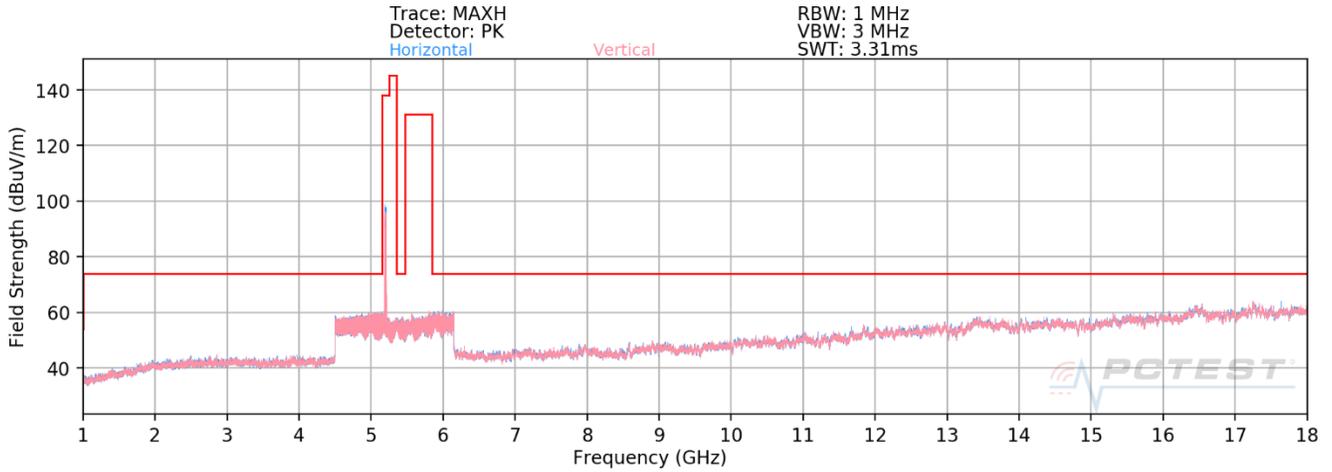
Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 54
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11650.00	Average	H	192	301	-82.14	17.57	0.00	42.43	53.98	-11.54
* 11650.00	Peak	H	192	301	-69.12	17.57	0.00	55.45	73.98	-18.52
17475.00	Peak	H	-	-	-72.08	26.23	0.00	61.15	68.20	-7.05
23300.00	Peak	H	-	-	-67.32	18.93	-9.54	49.07	68.20	-19.13
29125.00	Peak	H	-	-	-50.84	3.48	-9.54	50.10	68.20	-18.10

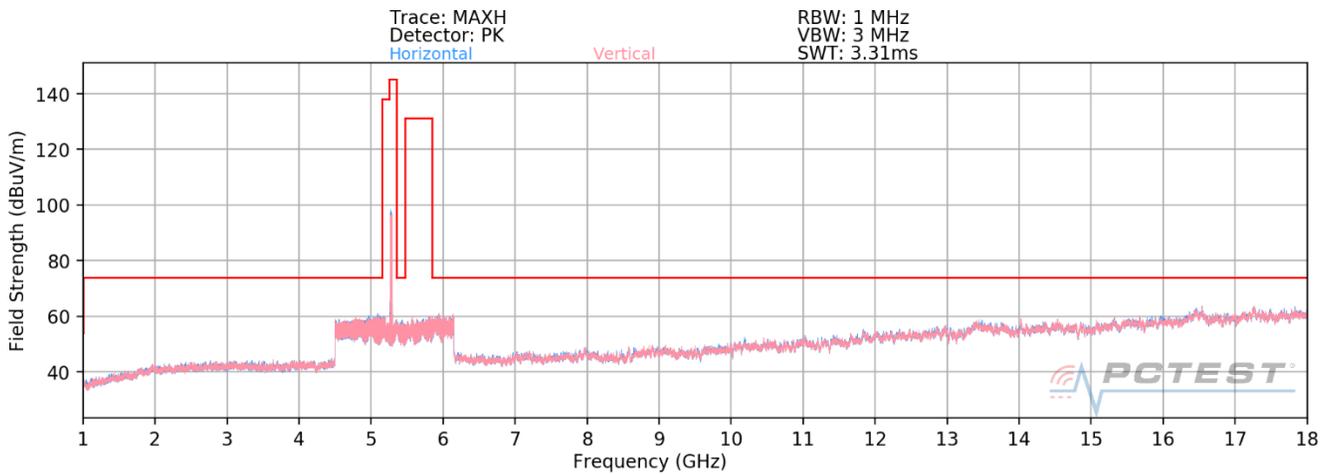
Table 7-62. Radiated Measurements MIMO (26 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 59 of 91	

242 Tones

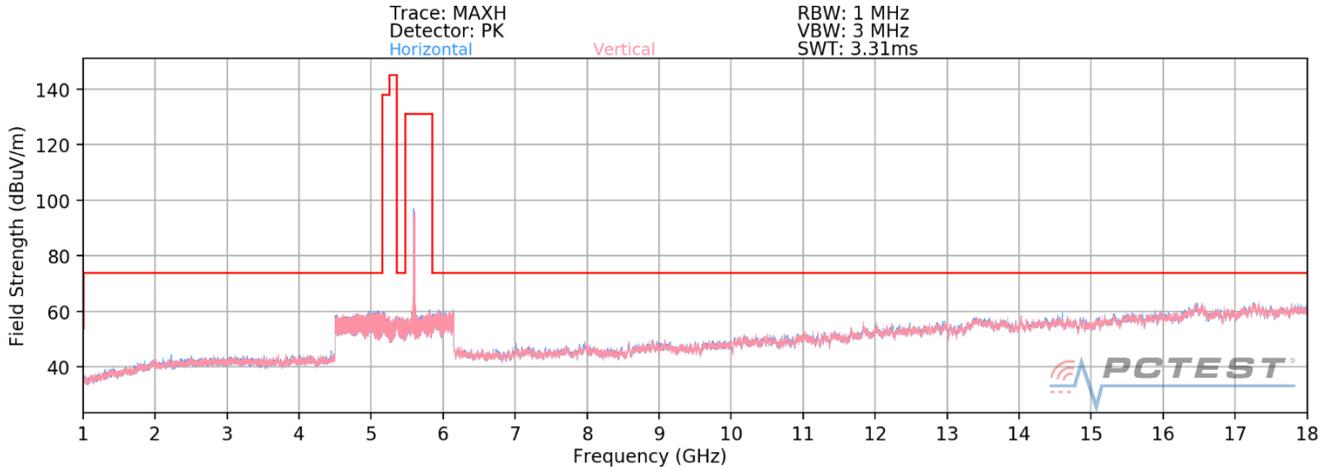


Plot 7-31. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U1 Ch. 40 – 242 Tones)

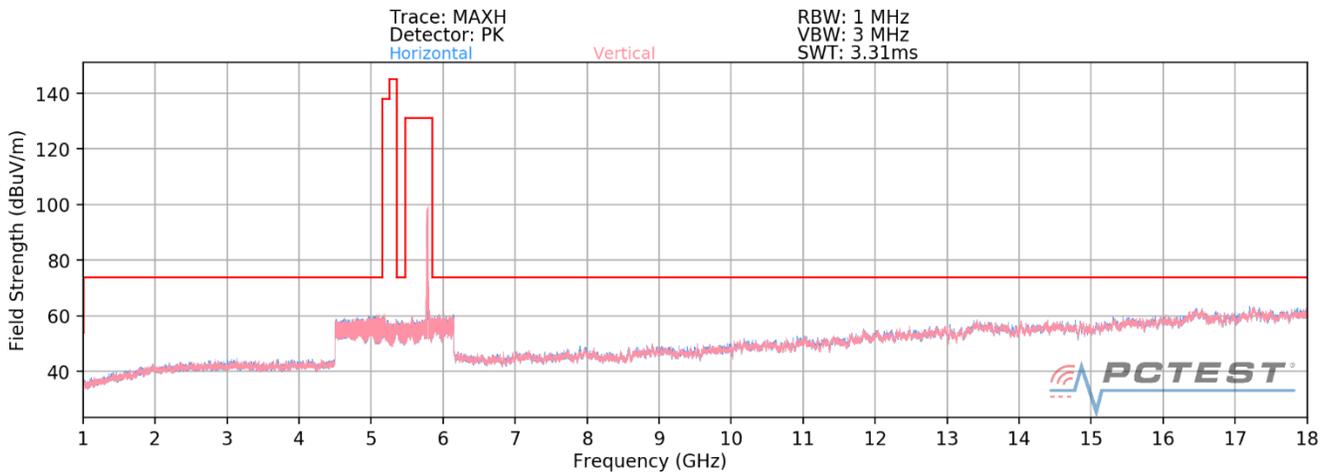


Plot 7-32. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2A Ch. 56 – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 60 of 91



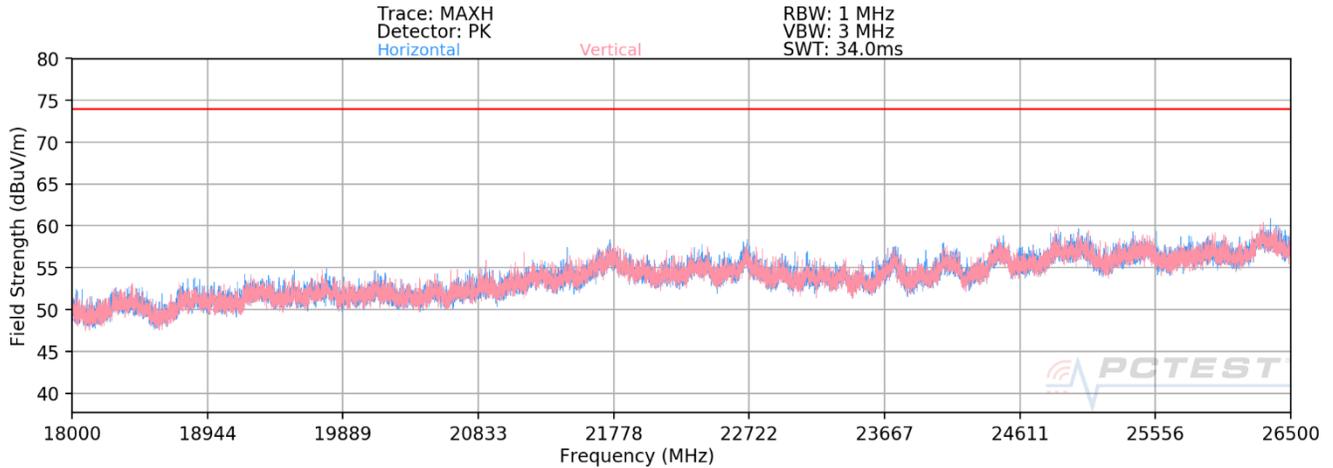
Plot 7-33. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U2C Ch. 120 – 242 Tones)



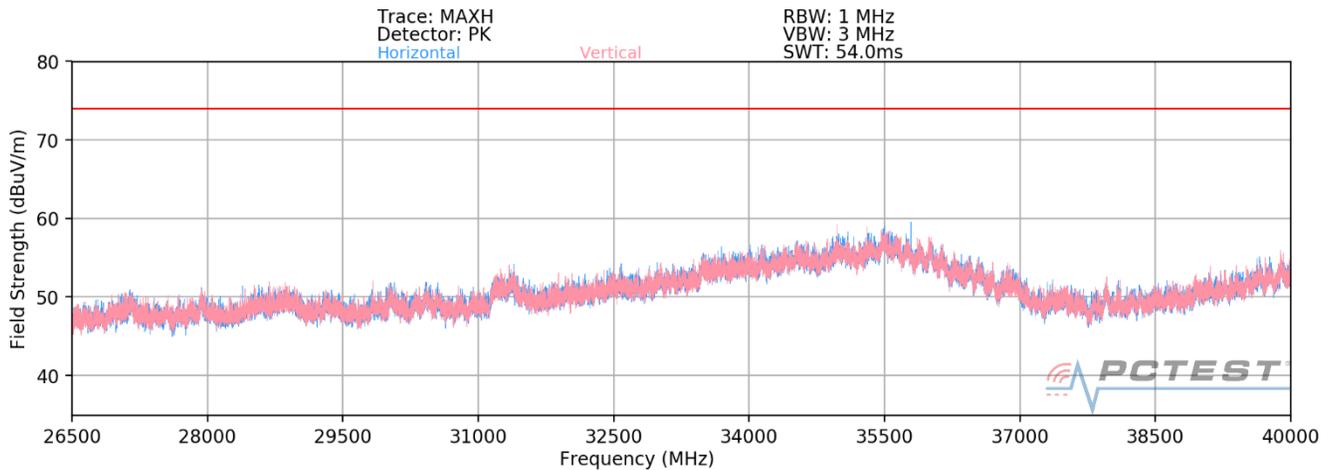
Plot 7-34. Radiated Spurious Plot above 1GHz MIMO (802.11ax – U3 Ch. 157 – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 61 of 91	

MIMO Radiated Spurious Emissions Measurements (Above 18GHz)



Plot 7-35. Radiated Spurious Plot 18GHz - 26.5GHz MIMO (802.11ax – 242 Tones)



Plot 7-36. Radiated Spurious Plot 26.5GHz - 40GHz MIMO (802.11ax – 242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 62 of 91

MIMO Radiated Spurious Emission Measurements (242 Tones)

§15.407(b) §15.205 & §15.209; RSS-Gen [8.9]

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5180MHz
 Channel: 36

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10360.00	Peak	H	223	307	-67.82	15.23	0.00	54.41	68.20	-13.79
* 15540.00	Average	H	-	-	-83.57	22.71	0.00	46.14	53.98	-7.84
* 15540.00	Peak	H	-	-	-71.25	22.71	0.00	58.46	73.98	-15.52
* 20720.00	Average	H	-	-	-79.02	17.51	-9.54	35.95	53.98	-18.03
* 20720.00	Peak	H	-	-	-67.70	17.51	-9.54	47.27	73.98	-26.71
25900.00	Peak	H	-	-	-66.13	19.88	-9.54	51.21	68.20	-16.99

Table 7-63. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5200MHz
 Channel: 40

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10400.00	Peak	H	220	304	-68.46	15.67	0.00	54.21	68.20	-13.99
* 15600.00	Average	H	-	-	-83.31	22.46	0.00	46.15	53.98	-7.83
* 15600.00	Peak	H	-	-	-71.35	22.46	0.00	58.11	73.98	-15.87
* 20800.00	Average	H	-	-	-78.72	17.87	-9.54	36.61	53.98	-17.37
* 20800.00	Peak	H	-	-	-67.82	17.87	-9.54	47.51	73.98	-26.47
26000.00	Peak	H	-	-	-65.72	20.15	-9.54	51.89	68.20	-16.31

Table 7-64. Radiated Measurements MIMO (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 63 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5240MHz
 Channel: 48

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10480.00	Peak	H	217	310	-69.35	15.49	0.00	53.14	68.20	-15.06
* 15720.00	Average	H	-	-	-83.24	22.45	0.00	46.21	53.98	-7.77
* 15720.00	Peak	H	-	-	-71.18	22.45	0.00	58.27	73.98	-15.71
* 20960.00	Average	H	-	-	-79.06	18.06	-9.54	36.46	53.98	-17.52
* 20960.00	Peak	H	-	-	-67.18	18.06	-9.54	48.34	73.98	-25.64
26200.00	Peak	H	-	-	-65.53	20.23	-9.54	52.16	68.20	-16.04

Table 7-65. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5260MHz
 Channel: 52

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
10520.00	Peak	H	208	306	-68.85	15.86	0.00	54.01	68.20	-14.19
* 15780.00	Average	H	-	-	-83.48	22.77	0.00	46.29	53.98	-7.69
* 15780.00	Peak	H	-	-	-71.59	22.77	0.00	58.18	73.98	-15.80
* 21040.00	Average	H	-	-	-78.64	18.36	-9.54	37.18	53.98	-16.80
* 21040.00	Peak	H	-	-	-67.45	18.36	-9.54	48.37	73.98	-25.61
26300.00	Peak	H	-	-	-65.16	20.96	-9.54	53.26	68.20	-14.94

Table 7-66. Radiated Measurements MIMO (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 64 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5280MHz
 Channel: 56

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
10560.00	Peak	H	219	292	-69.10	15.70	0.00	53.60	68.20	-14.60
* 15840.00	Average	H	-	-	-83.58	22.66	0.00	46.08	53.98	-7.90
* 15840.00	Peak	H	-	-	-71.67	22.66	0.00	57.99	73.98	-15.99
* 21120.00	Average	H	-	-	-78.58	18.17	-9.54	37.05	53.98	-16.93
* 21120.00	Peak	H	-	-	-67.22	18.17	-9.54	48.41	73.98	-25.57
* 26400.00	Peak	H	-	-	-66.28	20.65	-9.54	51.83	68.20	-16.37

Table 7-67. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5320MHz
 Channel: 64

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 10640.00	Average	H	221	297	-82.07	16.03	0.00	40.96	53.98	-13.02
* 10640.00	Peak	H	221	297	-69.02	16.03	0.00	54.01	73.98	-19.97
* 15960.00	Average	H	-	-	-83.68	23.09	0.00	46.41	53.98	-7.57
* 15960.00	Peak	H	-	-	-71.17	23.09	0.00	58.92	73.98	-15.06
* 21280.00	Average	H	-	-	-78.28	18.57	-9.54	37.75	53.98	-16.23
* 21280.00	Peak	H	-	-	-67.29	18.57	-9.54	48.74	73.98	-25.24
* 26600.00	Peak	H	-	-	-53.22	5.16	-9.54	49.40	68.20	-18.80

Table 7-68. Radiated Measurements MIMO (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 65 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11000.00	Average	H	222	306	-81.69	16.51	0.00	41.82	53.98	-12.16
* 11000.00	Peak	H	222	306	-69.66	16.51	0.00	53.85	73.98	-20.13
16500.00	Peak	H	-	-	-71.63	24.17	0.00	59.54	68.20	-8.66
22000.00	Peak	H	-	-	-66.44	19.12	-9.54	50.14	68.20	-18.06
27500.00	Peak	H	-	-	-50.59	3.98	-9.54	50.85	68.20	-17.35

Table 7-69. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5600MHz
 Channel: 120

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11200.00	Average	H	218	302	-81.27	16.69	0.00	42.42	53.98	-11.56
* 11200.00	Peak	H	218	302	-69.81	16.69	0.00	53.88	73.98	-20.10
16800.00	Peak	H	-	-	-71.54	23.97	0.00	59.43	68.20	-8.77
* 22400.00	Average	H	-	-	-78.47	19.90	-9.54	38.89	53.98	-15.09
* 22400.00	Peak	H	-	-	-67.57	19.90	-9.54	49.79	73.98	-24.19
28000.00	Peak	H	-	-	-52.22	4.37	-9.54	49.61	68.20	-18.59

Table 7-70. Radiated Measurements MIMO (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 66 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5720MHz
 Channel: 144

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11440.00	Average	H	211	305	-83.22	17.29	0.00	41.07	53.98	-12.91
* 11440.00	Peak	H	211	305	-71.10	17.29	0.00	53.19	73.98	-20.79
17160.00	Peak	H	-	-	-71.37	24.37	0.00	60.00	68.20	-8.20
* 22880.00	Average	H	-	-	-79.07	19.50	-9.54	37.89	53.98	-16.09
* 22880.00	Peak	H	-	-	-67.51	19.50	-9.54	49.45	73.98	-24.53
28600.00	Peak	H	-	-	-52.00	5.14	-9.54	50.60	68.20	-17.60

Table 7-71. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5745MHz
 Channel: 149

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
* 11490.00	Average	H	241	81	-83.05	17.63	0.00	41.58	53.98	-12.39
* 11490.00	Peak	H	241	81	-70.64	17.63	0.00	53.99	73.98	-19.98
17235.00	Peak	H	-	-	-71.57	25.01	0.00	60.44	68.20	-7.76
* 22980.00	Average	H	-	-	-79.05	19.89	-9.54	38.30	53.98	-15.68
* 22980.00	Peak	H	-	-	-67.65	19.89	-9.54	49.70	73.98	-24.28
28725.00	Peak	H	-	-	-51.46	4.66	-9.54	50.66	68.20	-17.54

Table 7-72. Radiated Measurements MIMO (242 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 67 of 91	

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5785MHz
 Channel: 157

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11570.00	Average	H	238	85	-82.88	17.35	0.00	41.47	53.98	-12.51
* 11570.00	Peak	H	238	85	-69.93	17.35	0.00	54.42	73.98	-19.56
17355.00	Peak	H	-	-	-71.77	26.08	0.00	61.31	68.20	-6.89
23140.00	Peak	H	-	-	-68.22	19.59	-9.54	48.83	68.20	-19.37
28925.00	Peak	H	-	-	-52.39	4.43	-9.54	49.50	68.20	-18.70

Table 7-73. Radiated Measurements MIMO (242 Tones)

Worst Case Mode: 802.11ax (20MHz BW)
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 1 & 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165

Frequency [MHz]	Detector	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBµV/m]	Limit [dBµV/m]	Margin [dB]
* 11650.00	Average	H	244	84	-82.98	17.57	0.00	41.59	53.98	-12.38
* 11650.00	Peak	H	244	84	-70.37	17.57	0.00	54.20	73.98	-19.77
17475.00	Peak	H	-	-	-71.68	26.23	0.00	61.55	68.20	-6.65
23300.00	Peak	H	-	-	-67.09	18.93	-9.54	49.30	68.20	-18.90
29125.00	Peak	H	-	-	-50.33	3.48	-9.54	50.61	68.20	-17.59

Table 7-74. Radiated Measurements MIMO (242 Tones)

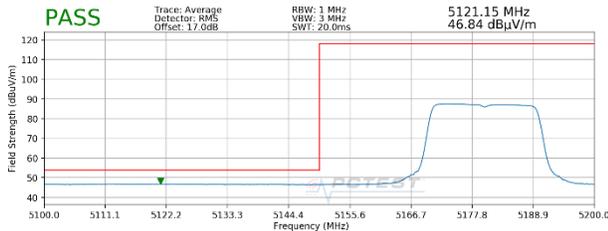
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 68 of 91	

7.6.4 SISO Antenna-1 Radiated Band Edge Measurements (20MHz BW)

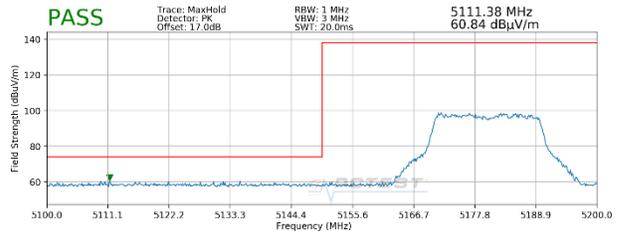
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

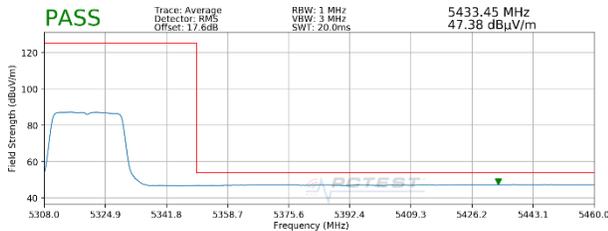


Plot 7-37. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 242 Tones)

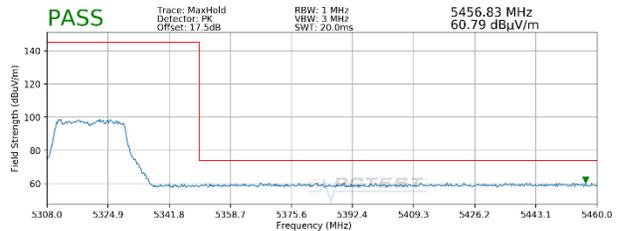


Plot 7-38. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-39. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 242 Tones)

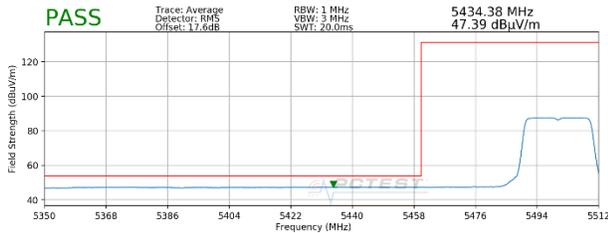


Plot 7-40. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 242 Tones)

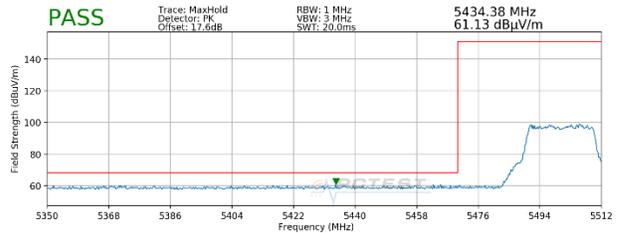
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 69 of 91



Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

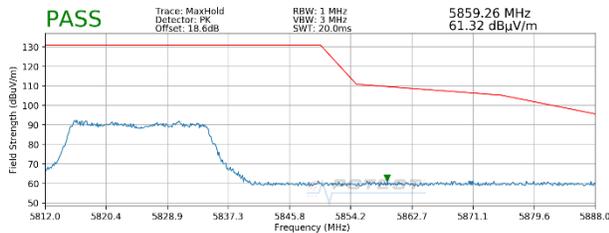


Plot 7-41. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 242 Tones)



Plot 7-42. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-43. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 242 Tones)

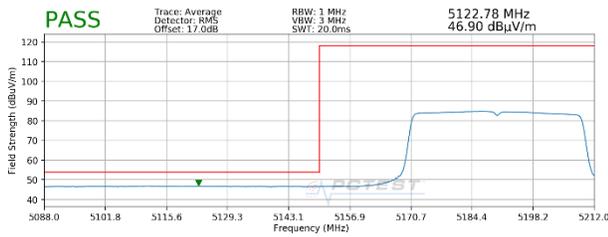
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 70 of 91

7.6.5 SISO Antenna-1 Radiated Band Edge Measurements (40MHz BW)

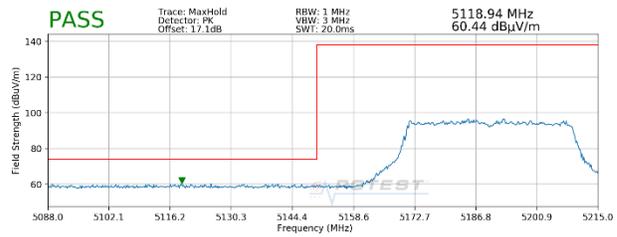
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	62
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

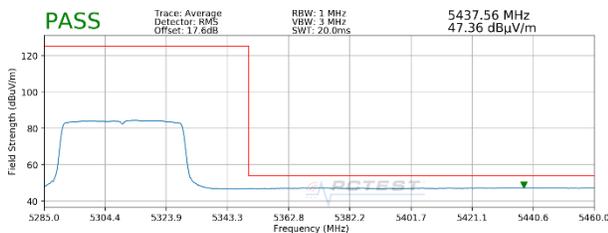


Plot 7-44. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 484 Tones)

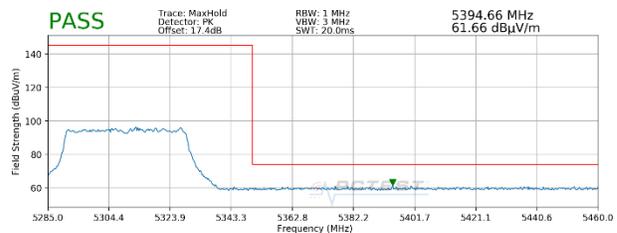


Plot 7-45. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	62
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



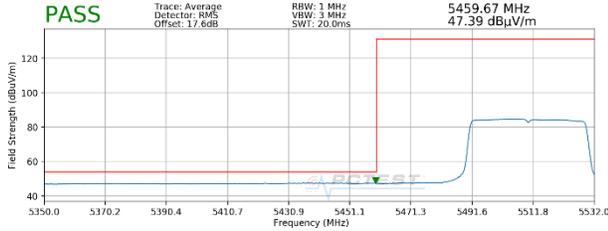
Plot 7-46. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 484 Tones)



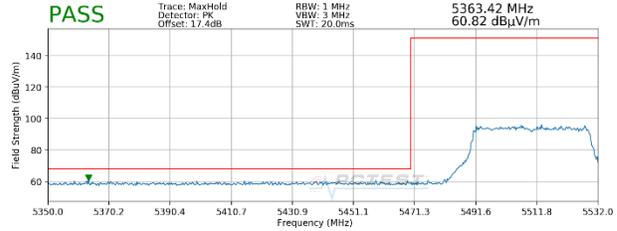
Plot 7-47. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 484 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 71 of 91

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 62
 Distance of Measurements: 3 Meters
 Operating Frequency: 5510MHz
 Channel: 102

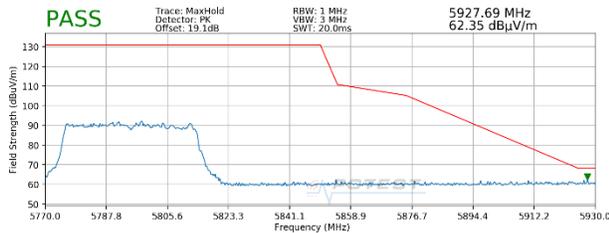


Plot 7-48. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 484 Tones)



Plot 7-49. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 484 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 62
 Distance of Measurements: 3 Meters
 Operating Frequency: 5795MHz
 Channel: 159



Plot 7-50. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 484 Tones)

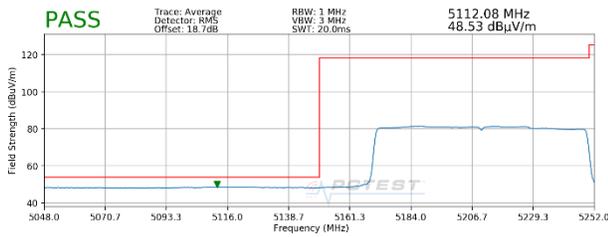
FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 72 of 91	

7.6.6 SISO Antenna-1 Radiated Band Edge Measurements (80MHz BW)

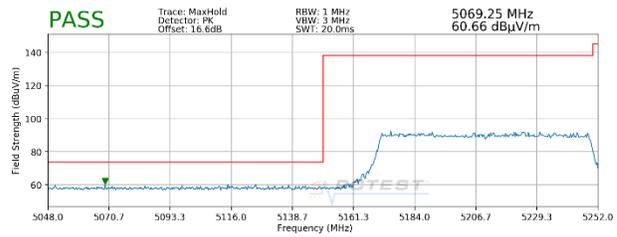
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

996 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	64
Distance of Measurements:	3 Meters
Operating Frequency:	5210MHz
Channel:	42

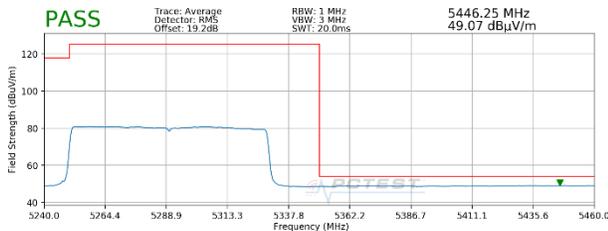


Plot 7-51. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 1 – 996 Tones)

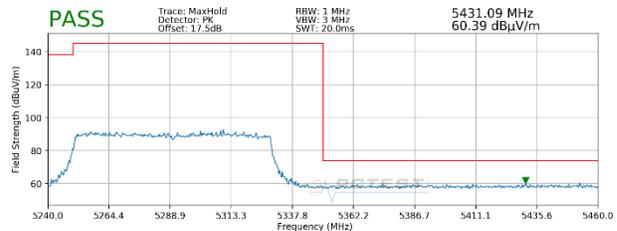


Plot 7-52. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 1 – 996 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	64
Distance of Measurements:	3 Meters
Operating Frequency:	5290MHz
Channel:	58



Plot 7-53. Radiated Upper Band Edge Plot SISO ANT1 (Average – UNII Band 2A – 996 Tones)

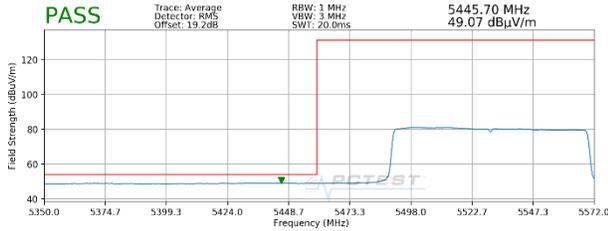


Plot 7-54. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 2A – 996 Tones)

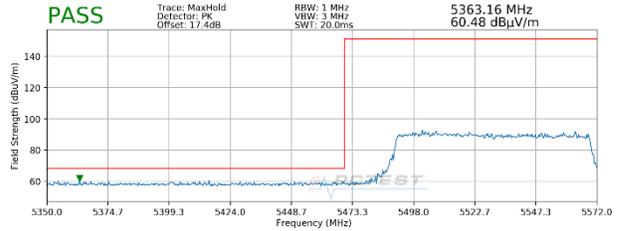
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 73 of 91



Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 64
 Distance of Measurements: 3 Meters
 Operating Frequency: 5530MHz
 Channel: 106

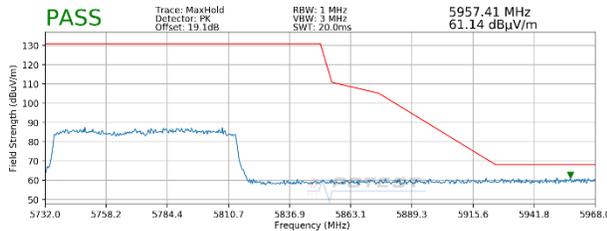


Plot 7-55. Radiated Lower Band Edge Plot SISO ANT1 (Average – UNII Band 2C – 996 Tones)



Plot 7-56. Radiated Lower Band Edge Plot SISO ANT1 (Peak – UNII Band 2C – 996 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 64
 Distance of Measurements: 3 Meters
 Operating Frequency: 5775MHz
 Channel: 155



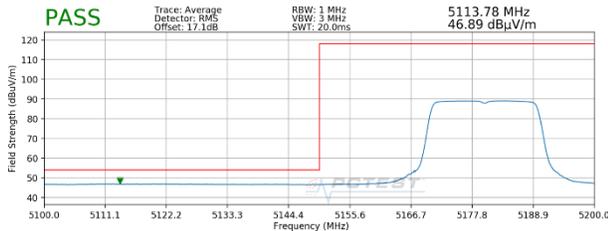
Plot 7-57. Radiated Upper Band Edge Plot SISO ANT1 (Peak – UNII Band 3 – 996 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 74 of 91

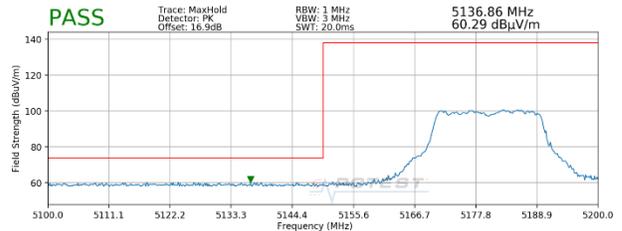
7.6.7 SISO Antenna-2 Radiated Band Edge Measurements (20MHz BW) §15.407(b.1)(b.2) §15.205 §15.209; RSS-Gen [8.9]

242 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5180MHz
Channel:	36

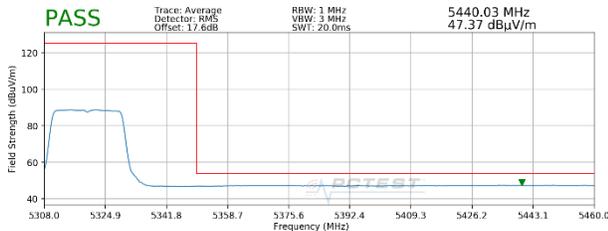


Plot 7-58. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 242 Tones)

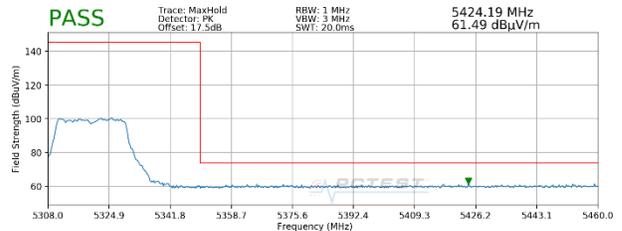


Plot 7-59. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 242 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	61
Distance of Measurements:	3 Meters
Operating Frequency:	5320MHz
Channel:	64



Plot 7-60. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 242 Tones)

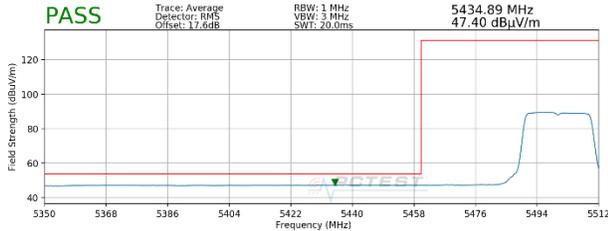


Plot 7-61. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 242 Tones)

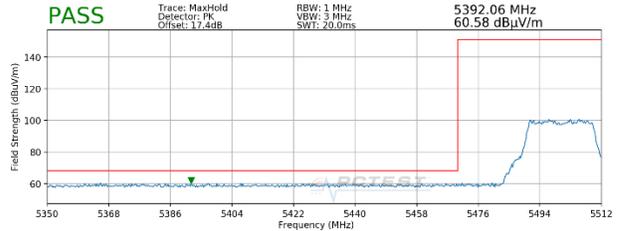
FCC ID: ZNFV600TM	MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset	Page 75 of 91	



Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5500MHz
 Channel: 100

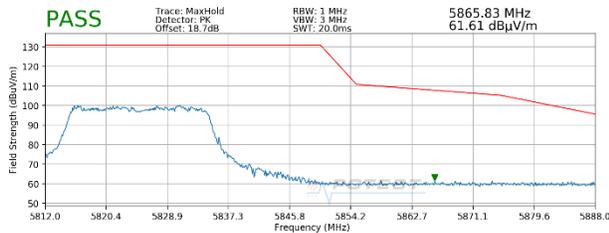


Plot 7-62. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 2C – 242 Tones)



Plot 7-63. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 2C – 242 Tones)

Worst Case Mode: 802.11ax
 Worst Case Transfer Rate: MCS0
 RU Index: 61
 Distance of Measurements: 3 Meters
 Operating Frequency: 5825MHz
 Channel: 165



Plot 7-64. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 3 – 242 Tones)

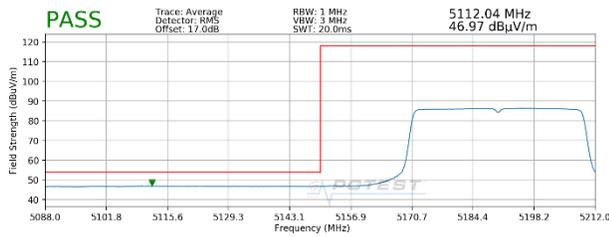
FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 76 of 91

7.6.8 SISO Antenna-2 Radiated Band Edge Measurements (40MHz BW)

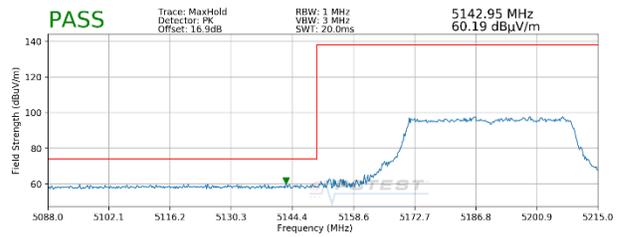
\$15.407(b.1)(b.2) \$15.205 \$15.209; RSS-Gen [8.9]

484 Tones

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	62
Distance of Measurements:	3 Meters
Operating Frequency:	5190MHz
Channel:	38

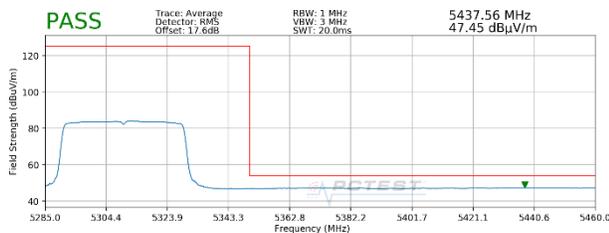


Plot 7-65. Radiated Lower Band Edge Plot SISO ANT2 (Average – UNII Band 1 – 484 Tones)

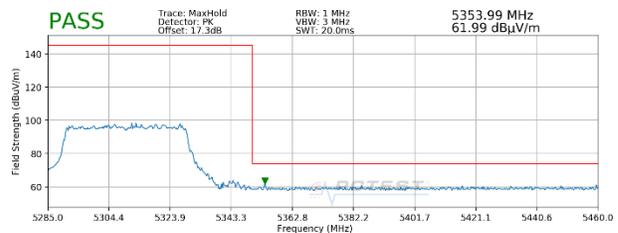


Plot 7-66. Radiated Lower Band Edge Plot SISO ANT2 (Peak – UNII Band 1 – 484 Tones)

Worst Case Mode:	802.11ax
Worst Case Transfer Rate:	MCS0
RU Index:	62
Distance of Measurements:	3 Meters
Operating Frequency:	5310MHz
Channel:	62



Plot 7-67. Radiated Upper Band Edge Plot SISO ANT2 (Average – UNII Band 2A – 484 Tones)



Plot 7-68. Radiated Upper Band Edge Plot SISO ANT2 (Peak – UNII Band 2A – 484 Tones)

FCC ID: ZNFV600TM		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1912300226-08.ZNF	Test Dates: 1/21 - 2/15/2020	EUT Type: Portable Handset		Page 77 of 91