



# **TEST REPORT**

**Report Number. :** R13337971-E4

**Applicant :** Raspberry Pi (Trading) Ltd  
Maurice Wilkes Building  
Cowley Road  
Cambridge  
CB4 0DS  
United Kingdom

**Model :** RPI-RM0 (CM4)

**FCC ID :** 2ABCB-RPIRM0

**IC :** 20953-RPIRM0

**EUT Description :** Bluetooth and WiFi radio module

**Test Standard(s) :** FCC 47 CFR PART 15 SUBPART E  
ISED RSS-247 ISSUE 2  
ISED RSS-GEN ISSUE 5

**Date Of Issue:**  
2020-10-09

**Prepared by:**  
UL LLC  
12 Laboratory Dr.  
Research Triangle Park, NC 27709 U.S.A.  
TEL: (919) 549-1400

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## REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
V1	2020-10-09	Initial Issue	Niklas Haydon
V2	2020-10-26	Added conducted emissions (mains) data	Mike Antola

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# 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** Raspberry Pi (Trading) Ltd  
Maurice Wilkes Building  
Cowley Road  
Cambridge  
CB4 0DS  
United Kingdom

**EUT DESCRIPTION:** Bluetooth and WiFi radio module

**MODEL:** RPI-RM0 (CM4)

**SERIAL NUMBER:** Non-serialized

**DATE TESTED:** 2020-08-15 to 2020-09-04

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Compliant
ISED RSS-247 Issue 2	Compliant
ISED RSS-GEN Issue 5	Compliant

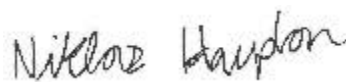
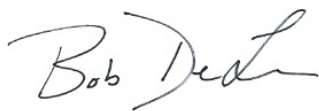
UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. All samples tested were in good operating condition throughout the entire test program. Measurement Uncertainties are published for informational purposes only and were not taken into account unless noted otherwise.

This document may not be altered or revised in any way unless done so by UL LLC and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL LLC will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. government.

Approved & Released For  
UL LLC

Prepared By:



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Bob DeLisi  
Principal Engineer  
Consumer Technology Division  
UL LLC

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Niklas Haydon  
Operations Leader  
Consumer Technology Division  
UL LLC

## 2. TEST RESULT SUMMARY

FCC Clause	ISED Clause	Requirement	Result	Comment
Per ANSI C63.10, Section 12.2.		Duty Cycle	Not performed in this report.	Refer to UL VS LTD report UL-RPT-RP13337971-1616A.
Per ANSI C63.10 Sections 6.9.2 and 6.9.3	RSS-GEN 6.7	26dB BW/99% OBW		
15.407 (e)	RSS-247 6.2.4.1	6 dB BW		
15.407 (a) (1-4), (h) (1)	RSS-247 6.2	Output Power		
15.407 (a) (1-3, 5)	RSS-247 6.2	PSD		
15.209, 15.205, 15.407 (b)	RSS-GEN 8.9, 8.10, RSS-247 6.2	Radiated Emissions	Compliant	None.
15.207	RSS-Gen 8.8	AC Mains Conducted Emissions	Compliant	None.

## 3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with;

- FCC CFR 47 Part 2
- FCC CFR 47 Part 15,
- FCC KDB 662911 D01 v02r01,
- FCC KDB 905462 D06 v02
- FCC KDB 789033 D02 v02r01,
- ANSI C63.10-2013,
- RSS-GEN Issue 5
- RSS-247 Issue 2
- 

## 4. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, North Carolina, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, North Carolina, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.	2800 Perimeter Park Dr.
<b>Site Code: 2180C</b>	
<input type="checkbox"/> Chamber A RTP	<input checked="" type="checkbox"/> North Chamber
<input checked="" type="checkbox"/> Chamber C RTP	<input checked="" type="checkbox"/> South Chamber

The above test sites and facilities are covered under FCC Test Firm Registration # 703469. Chambers above are covered under Industry Canada company address and respective code.

UL LLC (RTP) is accredited by NVLAP, Laboratory Code 200246-0

## 5. DECISION RULES AND MEASUREMENT UNCERTAINTY

### 5.1. METROLOGICAL TRACEABILITY

All test and measuring equipment utilized to perform the tests documented in this report are calibrated on a regular basis, with a maximum time between calibrations of one year or the manufacturers' recommendation, whichever is less, and where applicable is traceable to recognized national standards.

### 5.2. DECISION RULES

The Decision Rule is based on Simple Acceptance in accordance with ISO Guide 98-4:2012 Clause 8.2. (Measurement uncertainty is not taken into account when stating conformity with a specified requirement.)

### 5.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radio Frequency (Spectrum Analyzer)	141.2 Hz
Occupied Channel Bandwidth	2.00%
RF output power, conducted	1.3 dB (PK) 0.45 dB (AV)
RF output power, radiated (SAC)	3.23 dB
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	1.94 dB
All emissions, radiated	5.17 dB
Conducted Emissions (0.150-30MHz) - LISN	3.07 dB
Temperature	2.26°C
Humidity	6.79%
DC Supply voltages	1.70%
Time	3.39%

Uncertainty figures are valid to a confidence level of 95%.



## 5.4. SAMPLE CALCULATION

### **RADIATED EMISSIONS**

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

$$36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$$

Non-restricted band limit (-27 dBm/MHz EIRP to Field Strength):

Field Strength (V/m) =  $[\sqrt{(30 \cdot \text{EIRP})}] / d$ , where EIRP is in Watts, d = distance (3M)

$$\text{Field Strength (V/m)} = [\sqrt{(30 \cdot 0.000002)}] / 3 = 0.00258 \text{ V/m} = 68.2 \text{ dBuV/m}$$

### **MAINS CONDUCTED EMISSIONS**

Where relevant, the following sample calculation is provided:

Final Voltage (dBuV) = Measured Voltage (dBuV) + Cable Loss (dB) + Limiter Factor (dB) + LISN Insertion Loss.

$$36.5 \text{ dBuV} + 0 \text{ dB} + 10.1 \text{ dB} + 0 \text{ dB} = 46.6 \text{ dBuV}$$

## 6. EQUIPMENT UNDER TEST

### 6.1. EUT DESCRIPTION

The EUT is a Bluetooth and WiFi radio module. The PMN and HVIN = Raspberry Pi RM0.

### 6.1. POWER SETTINGS USED FOR TESTING

The power settings are as follows:

Antenna 1

Frequency Band	Wi-Fi Channels	802.11a	802.11n20	802.11n40	802.11ac80
5.15 to 5.25 GHz	36	71	58		
	38			66	
	40	74	58		
	42				63
	46			70	
	48	74	58		
5.25 to 5.35 GHz	52	73	65		
	54			72	
	58				64
	60	73	73		
	62			68	
	64	65	61		
5.47 to 5.725 GHz	100	58	54		
	102			63	
	106				67
	110			71	
	116	66	63		
	122				68
	134			76	
	140	66	63		
5.725 to 5.85 GHz	149	63	64		
	151			70	
	155				73
	157	65	61		
	159			70	
	165	66	60		

Antenna 2

Frequency Band	Wi-Fi Channels	802.11a	802.11n20	802.11n40	802.11ac80
5.15 to 5.25 GHz	36	66	58		
	38			59	
	40	75	58		
	42				63
	46			70	
	48	73	58		
5.25 to 5.35 GHz	52	73	73		
	54			75	
	58				61
	60	72	68		
	62			63	
	64	68	71		
5.47 to 5.725 GHz	100	58	54		
	102			63	
	106				51
	110			76	
	116	66	63		
	122				68
	134			75	
	140	66	63		
5.725 to 5.85 GHz	149	63	67		
	151			70	
	155				73
	157	66	65		
	159			70	
	165	66	64		

## 6.2. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an internal antenna with a maximum gain of 2.5dBi or an external antenna with a maximum gain of 2.0dBi.

Integrated antenna = antenna 1  
External antenna = antenna 2

## 6.3. SOFTWARE AND FIRMWARE

The EUT hardware during testing was v1.0.  
The EUT software during testing was v1.0.

## 6.4. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

Band edge and radiated emissions between 1GHz and 18GHz were performed with the EUT set to transmit at the highest power on low, middle and high channels.

The fundamental of the EUT was investigated with in three orthogonal orientations X,Y,Z for each antenna, it was determined that X orientation was worst-case orientation for antenna 1 and Z orientation for antenna Z; therefore, all final radiated testing was performed with both antennas in the X orientation for antenna 1 and Z orientation for antenna 2.

Worst-case data rates as were:

802.11a mode: 6 Mbps  
802.11n HT20mode: MCS0  
802.11n HT40mode: MCS0  
802.11ac VHT80 mode: MCS0

Duty cycle from UL-RPT-RP13337971-1616A:

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Voltage Averaging Duty Cycle Correction Factor (dB)
<b>2.4GHz Band</b>					
802.11n HT40	0.941	0.966	0.974	97.41%	0.23
802.11ac VHT80	0.459	0.482	0.952	95.23%	0.42

Note: All other modes were found to have a duty cycle greater than 98%.

## 6.5. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

Description	Manufacturer	Model	Serial Number
AC/DC Adapter	Raspberry Pi	KSA-15E-051300HK	3037350
Raspberry Pi Board	Raspberry Pi	Raspberry Pi 4 Model B	3157590

### I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	Mains	IEC	< 3M	Feeds AC/DC adapter
2	DC	1	DC plug	2-wire	< 3M	Powers EUT from AC/DC adapter

### TEST SETUP

Test software exercised the radio card of the EUT.

### SETUP DIAGRAM

Please refer to R1337971-EP2 for setup diagrams.

## **7. MEASUREMENT METHOD**

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Sections G.1, G.3, G.4, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Sections G.2, G.3, G.4, and G.5.

General Radiated Emissions: ANSI C63.10-2013 Section 6.3-6.6, 6.10

AC Power Line Conducted Emissions: ANSI C63.10:2013 Sections 6.2

## 8. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

### Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Chamber C)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	<b>1-18 GHz</b>				
AT0062	HORN Antenna	ETS-Lindgren	3117	2020-01-30	2021-01-30
	<b>Gain-Loss Chains</b>				
C-SAC02	Gain-loss string: 1-18GHz	Various	Various	2020-03-03	2021-03-03
C-SAC02 Path 7	Gain-loss string 1-7GHz	Various	Various	2020-04-03	2021-04-03
	<b>Receiver &amp; Software</b>				
SA0018	Spectrum Analyzer	Agilent	PXA (N9030A)	2020-03-02	2021-03-02
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	<b>Additional Equipment used</b>				
HI0085	Temp/Humid/Pressure Meter	EXTECH	SD700	2020-04-20	2021-04-30

### Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - South Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	<b>1-18 GHz</b>				
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-28	2021-04-28
	<b>Gain-Loss Chains</b>				
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-07-06	2020-07-06
	<b>Receiver &amp; Software</b>				
SA0025	Spectrum Analyzer	Agilent	N9030A	2020-03-17	2021-03-17
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	<b>Additional Equipment used</b>				
s/n 181474409	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27
s/n 200037635	Environmental Meter	Fisher Scientific	06-662-4	2020-01-22	2022-01-22

Test Equipment Used - Radiated Disturbance Emissions Test Equipment (Morrisville - North Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	<b>0.009-30MHz</b>	<b>(Loop Ant.)</b>			
AT0059	Active Loop Antenna	EMCO	6502	2020-08-06	2021-08-06
	<b>30-1000 MHz</b>				
AT0074	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2020-07-27	2021-07-27
	<b>1-18 GHz</b>				
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-27	2021-04-27
	<b>18-40 GHz</b>				
AT0076	Horn Antenna, 18-26.5GHz	ARA	MWH-1826/B	2019-11-07	2020-11-07
AT0077	Horn Antenna, 26-40GHz	ARA	MWH-2640/B	2019-11-07	2020-11-07
	<b>Gain-Loss Chains</b>				
N-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2020-07-29	2021-07-29
N-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2020-07-29	2021-07-29
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-07-28	2021-07-28
N-SAC04	Gain-loss string: 18-40GHz	Various	Various	2020-07-31	2021-07-31
	<b>Receiver &amp; Software</b>				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2020-03-27	2021-03-27
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	<b>Additional Equipment used</b>				
s/n 200037610	Environmental Meter	Fisher Scientific	06-662-4	2020-01-22	2022-01-22
ATA174	10dB, DC-18GHz, 5W	Mini-Circuits	BW-N10W5	2020-02-19	2021-02-19

NOTES:

1. For equipment listed above that was calibrated during the testing period, please note the equipment was used for testing after calibration.
2. For equipment listed above that has a calibration due date during the testing period, the testing was completed before the equipment expiration date.

Test Equipment Used - Line-Conducted Emissions – Voltage (Morrisville – Conducted 1)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2020-03-26	2021-03-26
HI0091	Environmental Meter	Fisher Scientific	14-650-118	2020-06-26	2021-06-26
LISN003	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2020-08-18	2021-08-18
75141	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2020-08-18	2021-08-18



Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
ATA222	Transient Limiter, 0.009-100MHz	Electro-Metrics	EM-7600	2020-03-26	2021-03-26
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)		
SOFTEMI	EMI Software	UL	Version 9.5 (2020-07-07)		
CDECABLE001	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2020-08-08	2021-08-08

## 9. RADIATED TEST RESULTS

### LIMITS

FCC §15.205 and §15.209 - Restricted bands  
 FCC §15.407(b)(1-3) - Undesirable Emissions

#### After January 01, 2019 for Outside of the Restricted Bands Emissions

RSS-GEN Section 8.9 and 8.10 – Restricted bands  
 RSS 247 Issue 2 Sections – Non-restricted bands:  
 6.2.1.2 (for 5150-5250 MHz band)  
 6.2.2.2 (for 5250-5350 MHz band)  
 6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)  
 6.2.4.2 (for 5725-5850 MHz band)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

### TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1GHz; 1.5 m above the ground plane for measurement above 1GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements in the 30-1000MHz range, 9kHz for peak and/or quasi-peak detection measurements in the 0.15-30MHz range and 200Hz for peak and/or quasi-peak detection measurements in the 9 to 150kHz range. Peak detection is used unless otherwise noted as quasi-peak.

For pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 kHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. The particular averaging method used for this test program was voltage averaging.

The spectrum from 30 MHz to 1GHz and 18GHz to 40 GHz is investigated with the transmitter set to transmit at the channel with highest output power and PSD as worst-case scenario. 1GHz to 18GHz was set to the lowest, middle, and highest channels in the 5 GHz bands.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

3D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel).

**KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification**

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

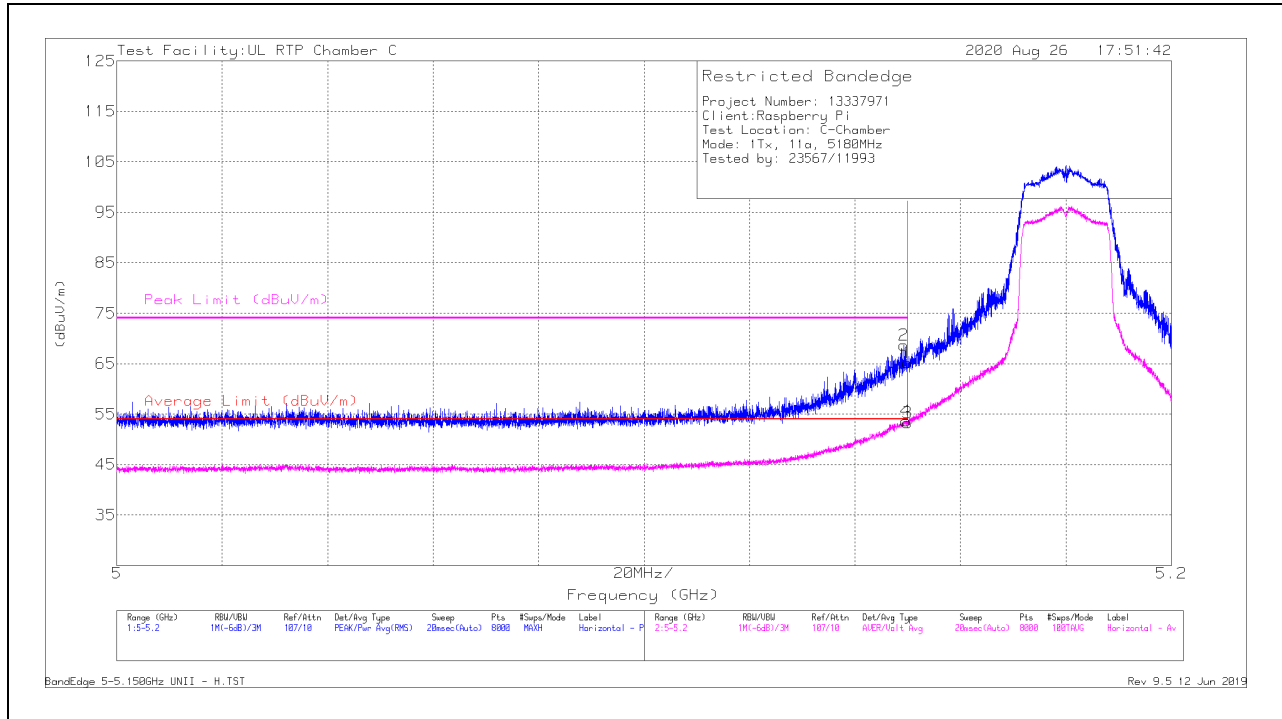
## 9.1. TRANSMITTER ABOVE 1 GHz

### 9.1.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 1 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	46.75	Pk	34.2	-15.8	65.15	-	-	74	-8.85	145	309	H
2	* ** 5.14927	50.28	Pk	34.2	-15.8	68.68	-	-	74	-5.32	145	309	H
3	* ** 5.14999	34.84	ADV	34.2	-15.8	53.24	54	-.76	-	-	145	309	H
4	* ** 5.14967	35.28	ADV	34.2	-15.8	53.68	54	-.32	-	-	145	309	H

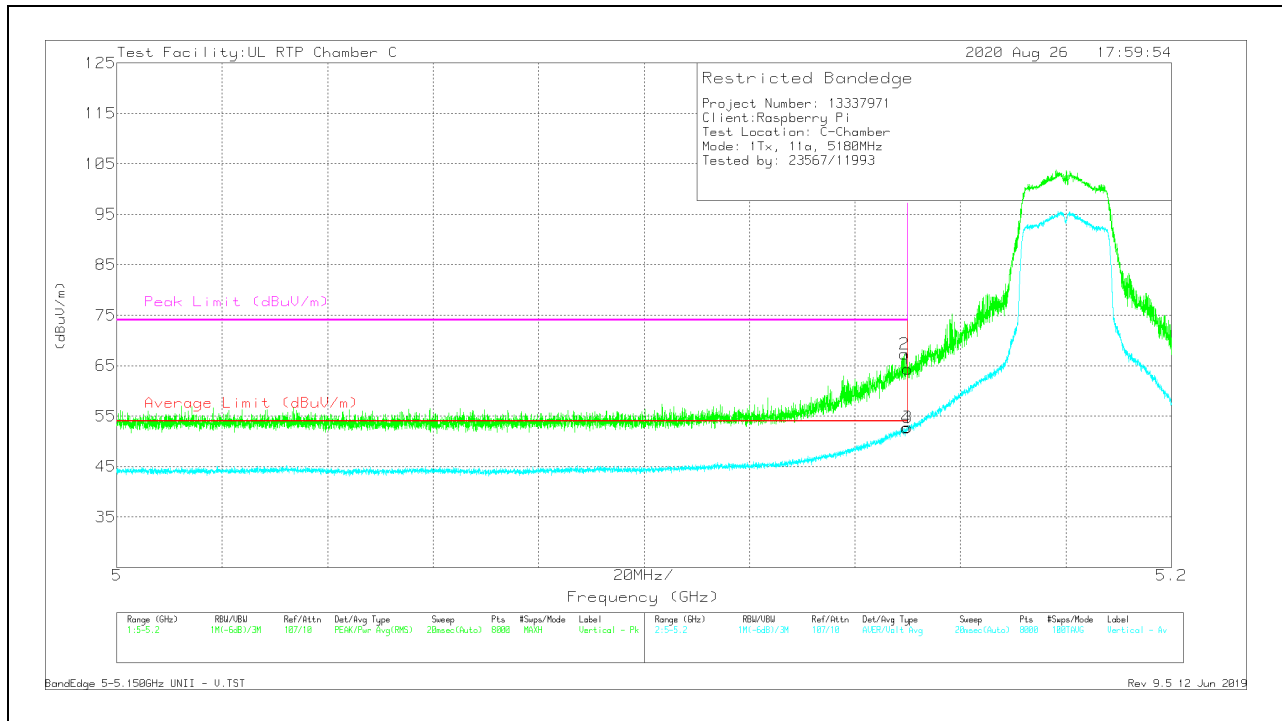
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

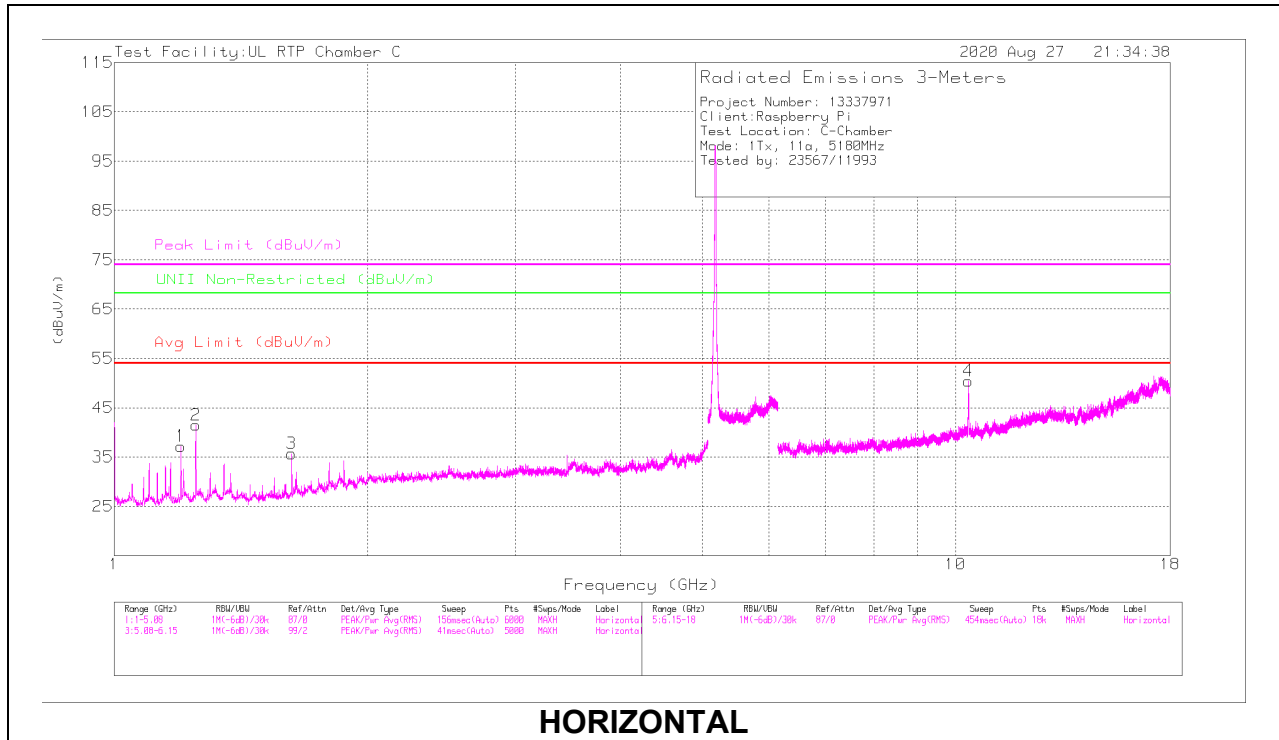


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	45.95	Pk	34.2	-15.8	64.35	-	-	74	-9.65	214	397	V
2	* ** 5.14939	48.95	Pk	34.2	-15.8	67.35	-	-	74	-6.65	214	397	V
3	* ** 5.14999	34.32	ADV	34.2	-15.8	52.72	54	-1.28	-	-	214	397	V
4	* ** 5.14969	34.28	ADV	34.2	-15.8	52.68	54	-1.32	-	-	214	397	V

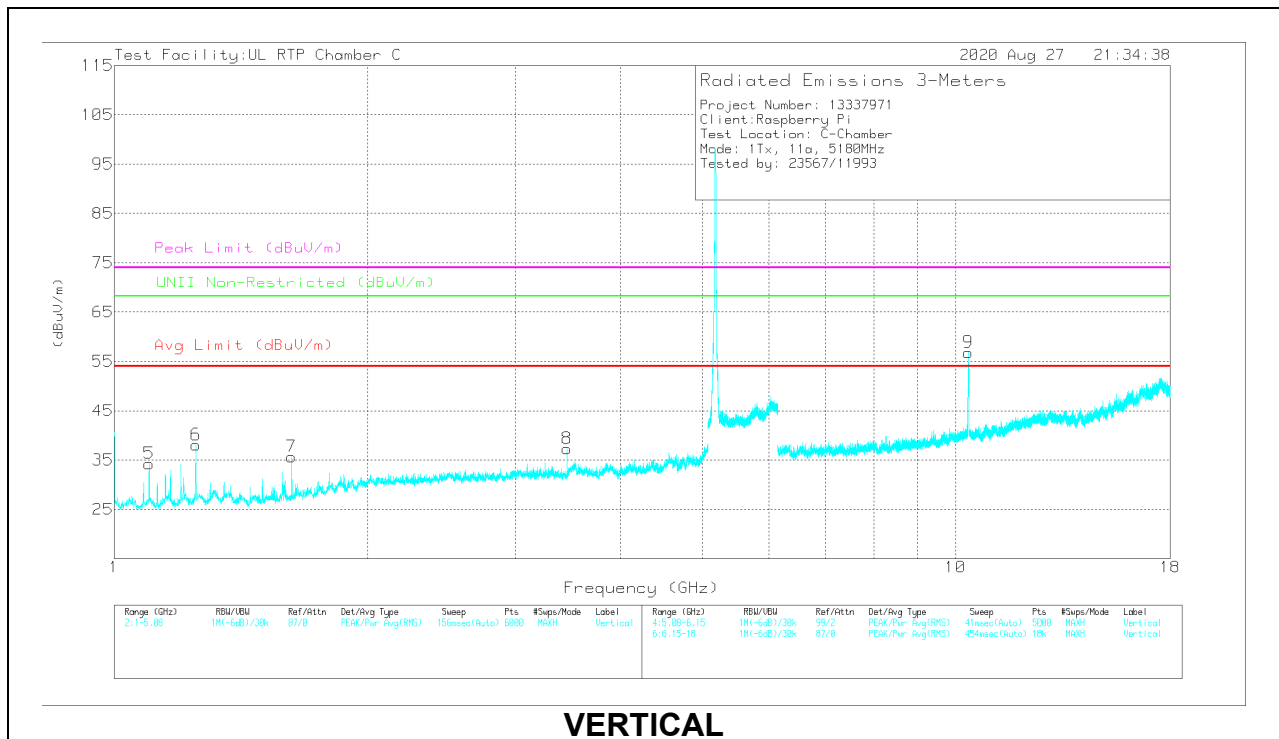
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20007	68.75	PK-U	28.1	-55.2	41.65	-	-	74	-32.35	-	-	187	197	H
	*** 1.20001	63.49	ADV	28.1	-55.2	36.39	54	-17.61	-	-	-	-	187	197	H
2	* 1.24994	72.19	PK-U	28.6	-55.3	45.49	-	-	74	-28.51	-	-	182	181	H
	* 1.25005	68.75	ADV	28.6	-55.3	42.05	54	-11.95	-	-	-	-	182	181	H
3	*** 1.62525	65.85	PK-U	28.5	-54.1	40.25	-	-	74	-33.75	-	-	213	185	H
	*** 1.62488	59.8	ADV	28.5	-54.1	34.2	54	-19.8	-	-	-	-	213	185	H
5	*** 1.10025	67.03	PK-U	27.3	-55.3	39.03	-	-	74	-34.97	-	-	257	196	V
	*** 1.10001	60.36	ADV	27.3	-55.3	32.36	54	-21.64	-	-	-	-	257	196	V
6	* 1.24984	68.32	PK-U	28.6	-55.3	41.62	-	-	74	-32.38	-	-	262	359	V
	* 1.25003	62.48	ADV	28.6	-55.3	35.78	54	-18.22	-	-	-	-	262	359	V
7	*** 1.62488	65.63	PK-U	28.5	-54.1	40.03	-	-	74	-33.97	-	-	163	216	V
	*** 1.62488	58.95	ADV	28.5	-54.1	33.35	54	-20.65	-	-	-	-	163	216	V
8	3.45327	59.73	PK-U	32.7	-50.7	41.73	-	-	-	-	68.2	-26.47	181	104	V
4	10.3593	68.21	PK-U	37.3	-44.1	61.41	-	-	-	-	68.2	-6.79	208	386	H
9	10.36113	71.13	PK-U	37.3	-44	64.43	-	-	-	-	68.2	-3.77	259	278	V

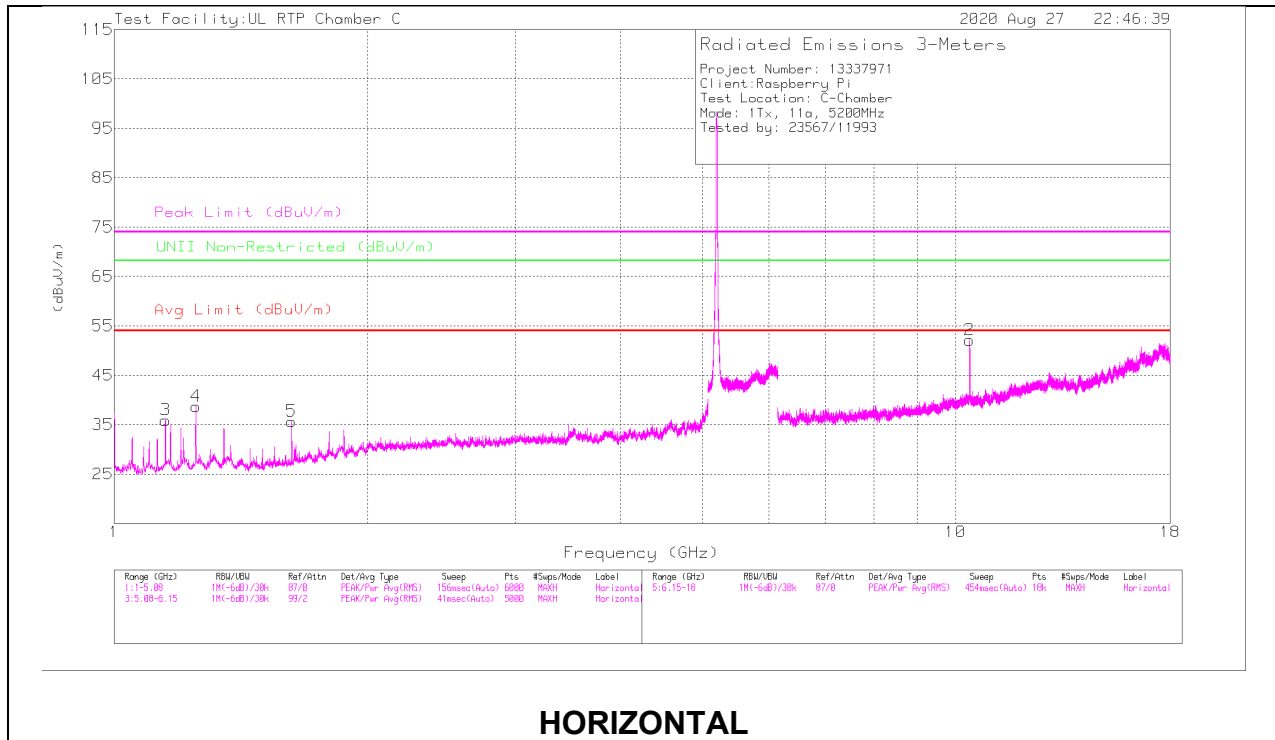
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

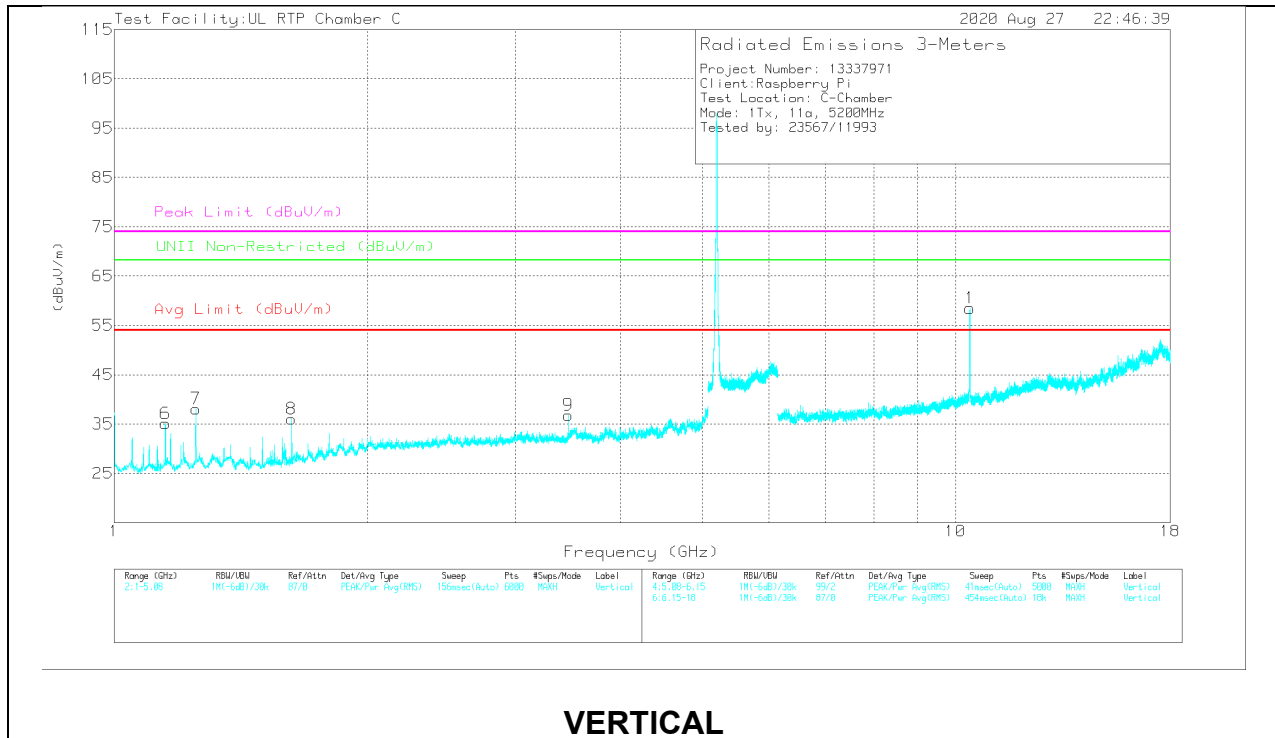
PK-U - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*** 1.14994	67.37	PK-U	27.4	-54.9	39.87	-	-	74	-34.13	-	-	186	222	H
	*** 1.15002	62.18	ADV	27.4	-54.9	34.68	54	-19.32	-	-	-	-	186	222	H
4	* 1.25017	69.64	PK-U	28.6	-55.3	42.94	-	-	74	-31.06	-	-	190	227	H
	* 1.25005	65.02	ADV	28.6	-55.3	38.32	54	-15.68	-	-	-	-	190	227	H
5	*** 1.62488	65.41	PK-U	28.5	-54.1	39.81	-	-	74	-34.19	-	-	219	203	H
	*** 1.62488	59.24	ADV	28.5	-54.1	33.64	54	-20.36	-	-	-	-	219	203	H
6	*** 1.15005	66.52	PK-U	27.4	-54.9	39.02	-	-	74	-34.98	-	-	241	102	V
	*** 1.15006	60.73	ADV	27.4	-54.9	33.23	54	-20.77	-	-	-	-	241	102	V
7	* 1.25006	66.96	PK-U	28.6	-55.3	40.26	-	-	74	-33.74	-	-	261	134	V
	* 1.24999	61.49	ADV	28.6	-55.3	34.79	54	-19.21	-	-	-	-	261	134	V
8	*** 1.62488	65.6	PK-U	28.5	-54.1	40	-	-	74	-34	-	-	171	192	V
	*** 1.62488	59.98	ADV	28.5	-54.1	34.38	54	-19.62	-	-	-	-	171	192	V
9	3.46655	59.81	PK-U	33.1	-50.6	42.31	-	-	-	-	68.2	-25.89	222	103	V
2	10.39631	63.98	PK-U	37.3	-43.5	57.78	-	-	-	-	68.2	-10.42	199	297	H
1	10.40115	71.6	PK-U	37.3	-43.2	65.7	-	-	-	-	68.2	-2.5	264	251	V

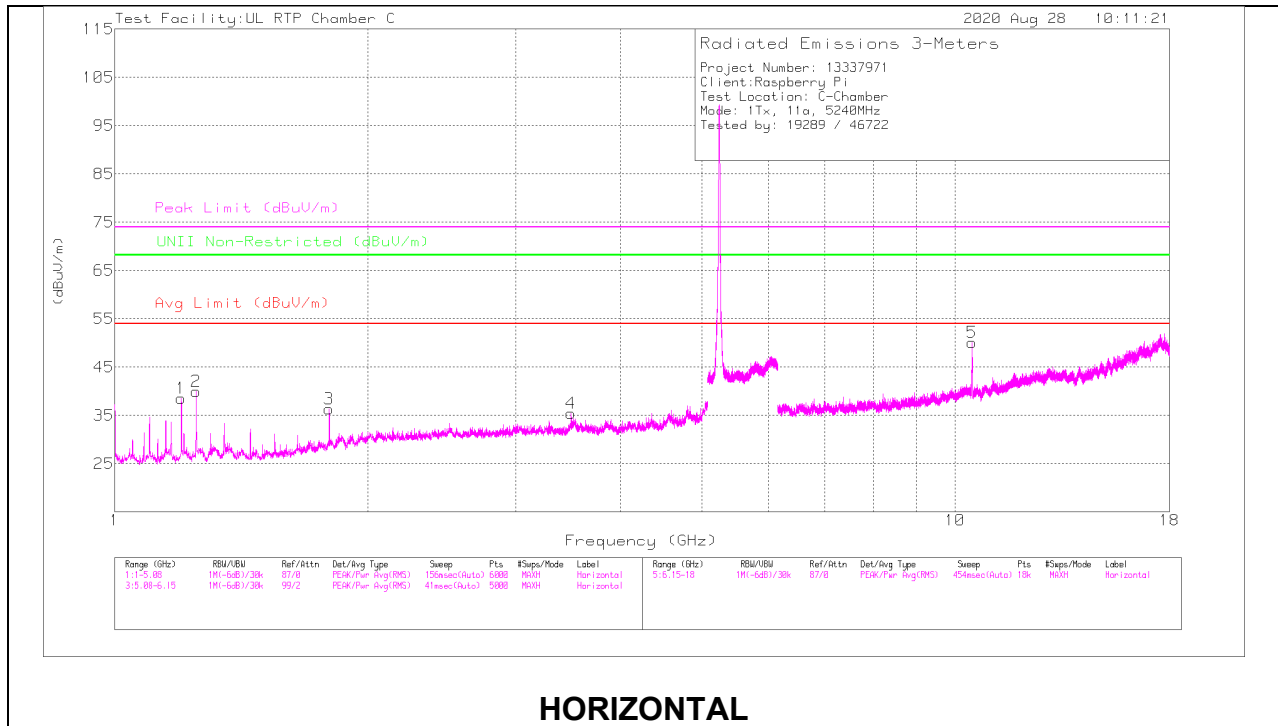
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

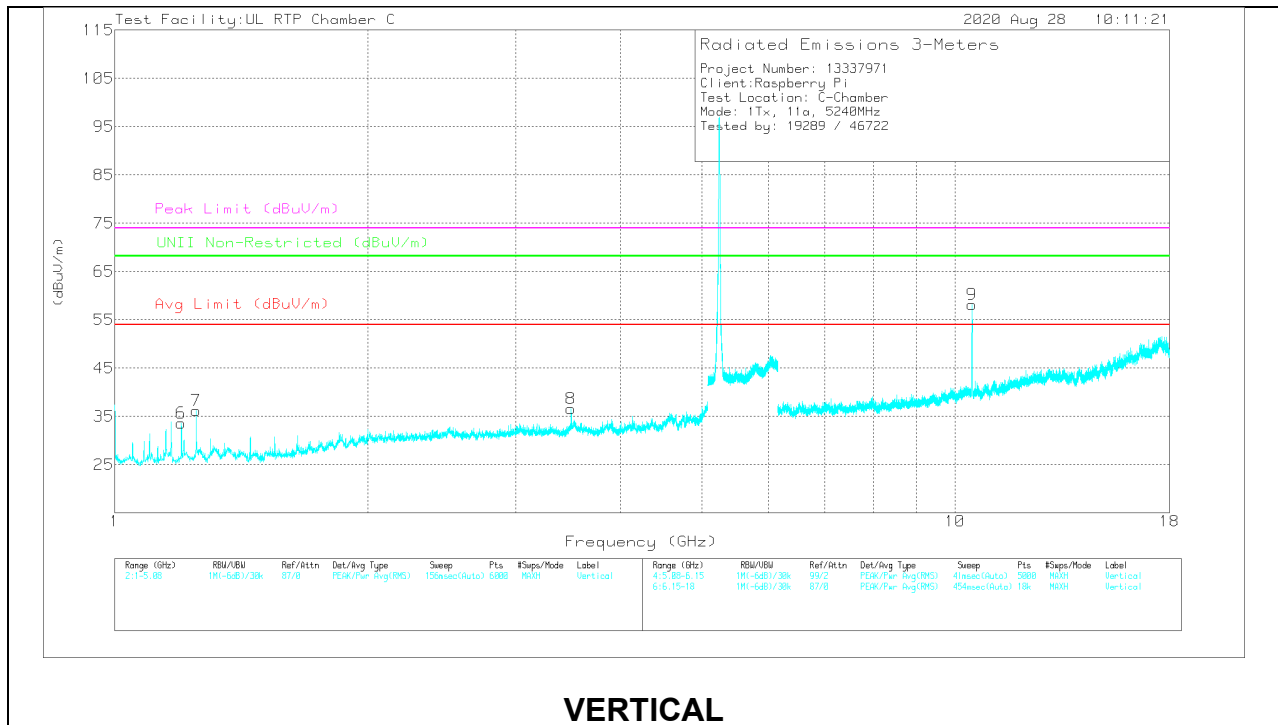
PK-U - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.20002	69.93	PK-U	28.1	-55.2	42.83	-	-	74	-31.17	-	-	181	200	H
	* ** 1.20003	65.27	ADV	28.1	-55.2	38.17	54	-15.83	-	-	-	-	181	200	H
2	* 1.24996	71.3	PK-U	28.6	-55.3	44.6	-	-	74	-29.4	-	-	180	224	H
	* 1.25004	66.82	ADV	28.6	-55.3	40.12	54	-13.88	-	-	-	-	180	224	H
6	* ** 1.20007	68.04	PK-U	28.1	-55.2	40.94	-	-	74	-33.06	-	-	57	284	V
	* ** 1.20004	62.15	ADV	28.1	-55.2	35.05	54	-18.95	-	-	-	-	57	284	V
7	* 1.24993	68.6	PK-U	28.6	-55.3	41.9	-	-	74	-32.1	-	-	64	313	V
	* 1.25002	62.72	ADV	28.6	-55.3	36.02	54	-17.98	-	-	-	-	64	313	V
3	1.79977	67.27	PK-U	30.2	-54.2	43.27	-	-	-	-	68.2	-24.93	185	393	H
4	3.49334	59.99	PK-U	33.7	-49.9	43.79	-	-	-	-	68.2	-24.41	316	398	H
8	3.49363	59.35	PK-U	33.7	-49.9	43.15	-	-	-	-	68.2	-25.05	248	399	V
5	10.47882	69.65	PK-U	37.4	-42.7	64.35	-	-	-	-	68.2	-3.85	278	398	H
9	10.47882	72.83	PK-U	37.4	-42.7	67.53	-	-	-	-	68.2	-67	232	397	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

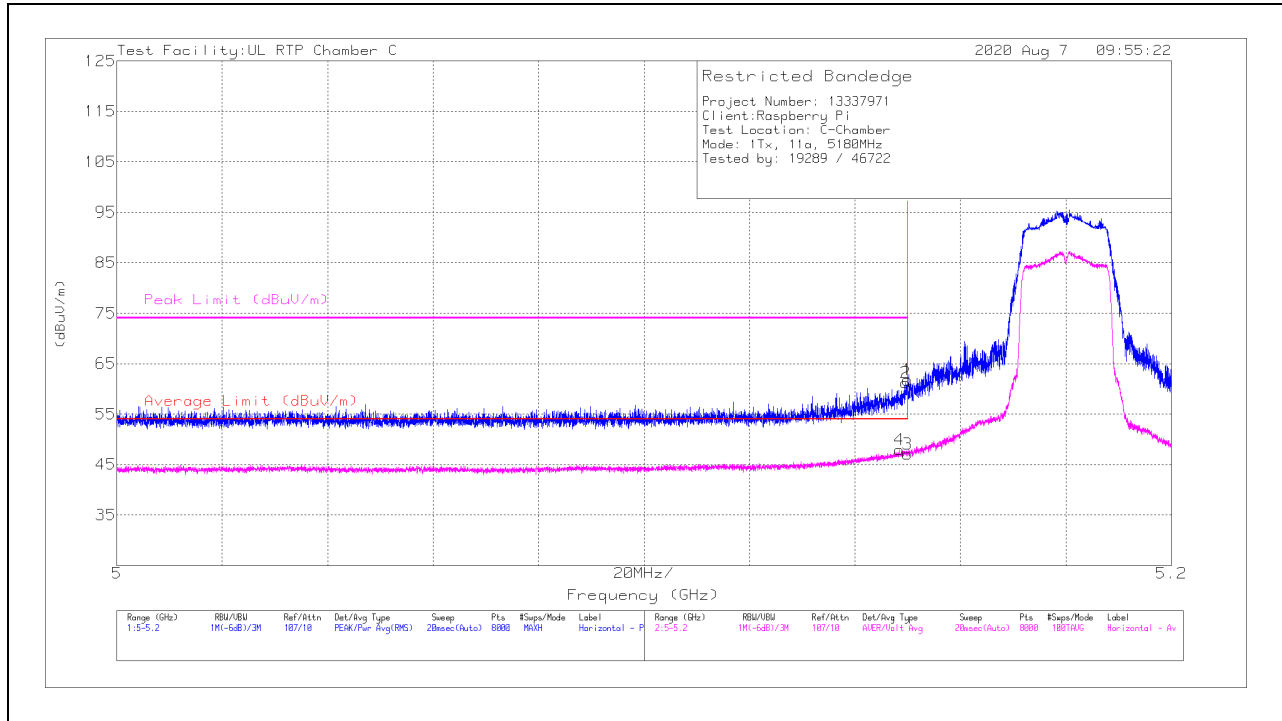
PK-U - Maximum Peak

ADV - Linear Voltage Average

**1TX Antenna 2 MODE**

**BANDEDGE (LOW CHANNEL)**

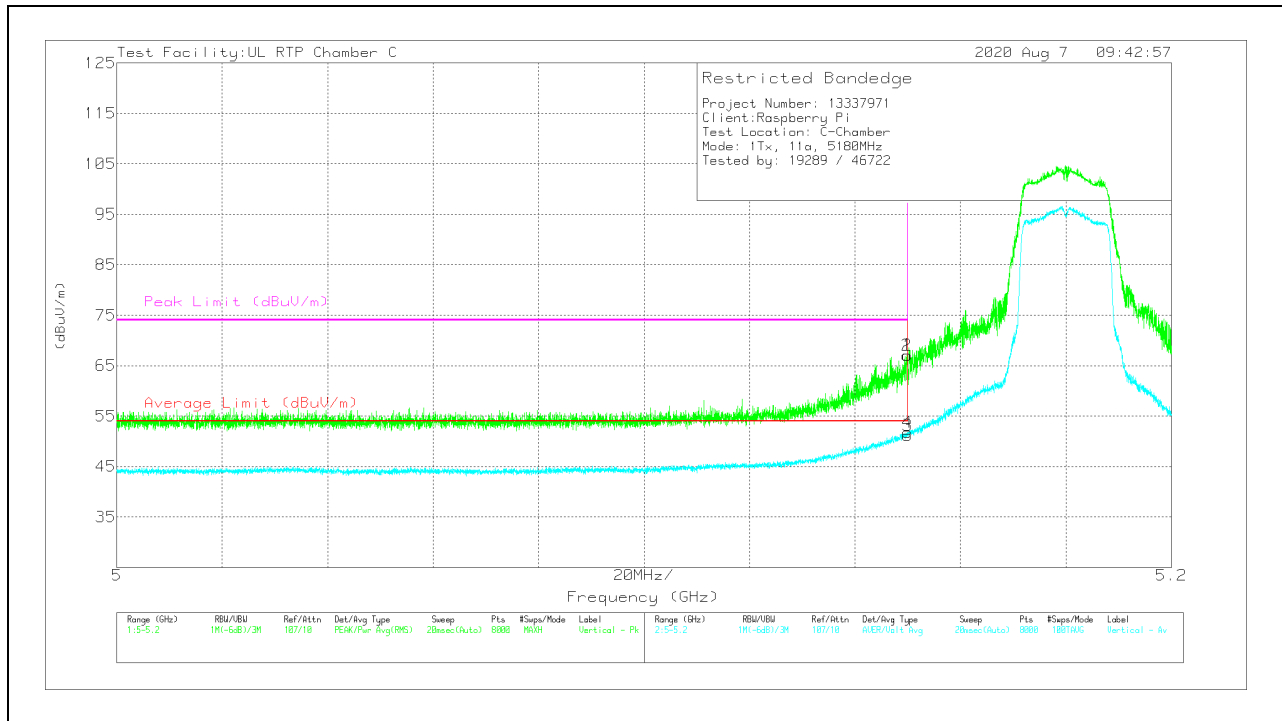
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	43.38	Pk	34.2	-15.8	61.78	-	-	74	-12.22	334	104	H
2	*** 5.14959	42.86	Pk	34.2	-15.8	61.26	-	-	74	-12.74	334	104	H
3	*** 5.14999	28.69	ADV	34.2	-15.8	47.09	54	-6.91	-	-	334	104	H
4	*** 5.14842	29.54	ADV	34.2	-15.8	47.94	54	-6.06	-	-	334	104	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

### VERTICAL RESULT

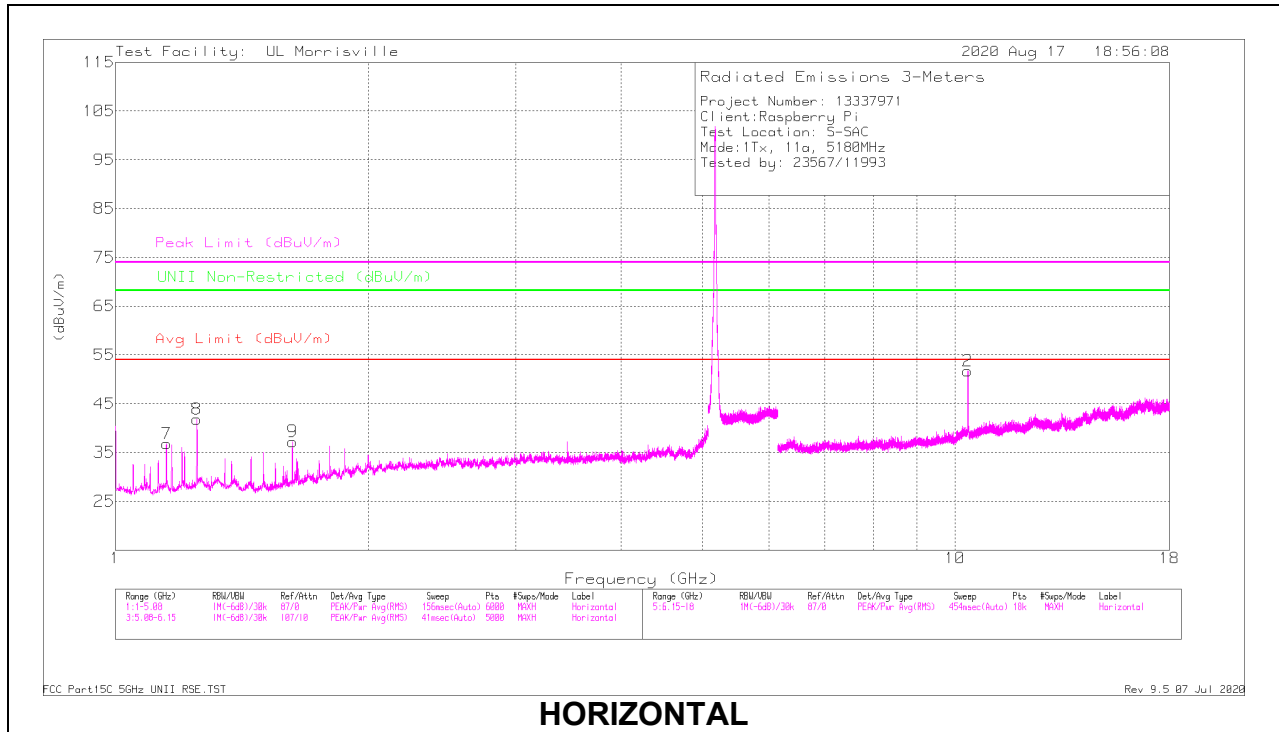


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	48.71	Pk	34.2	-15.8	67.11	-	-	74	-6.89	286	102	V
2	* ** 5.14987	48.64	Pk	34.2	-15.8	67.04	-	-	74	-6.96	286	102	V
3	* ** 5.14999	32.77	ADV	34.2	-15.8	51.17	54	-2.83	-	-	286	102	V
4	* ** 5.14992	33.35	ADV	34.2	-15.8	51.75	54	-2.25	-	-	286	102	V

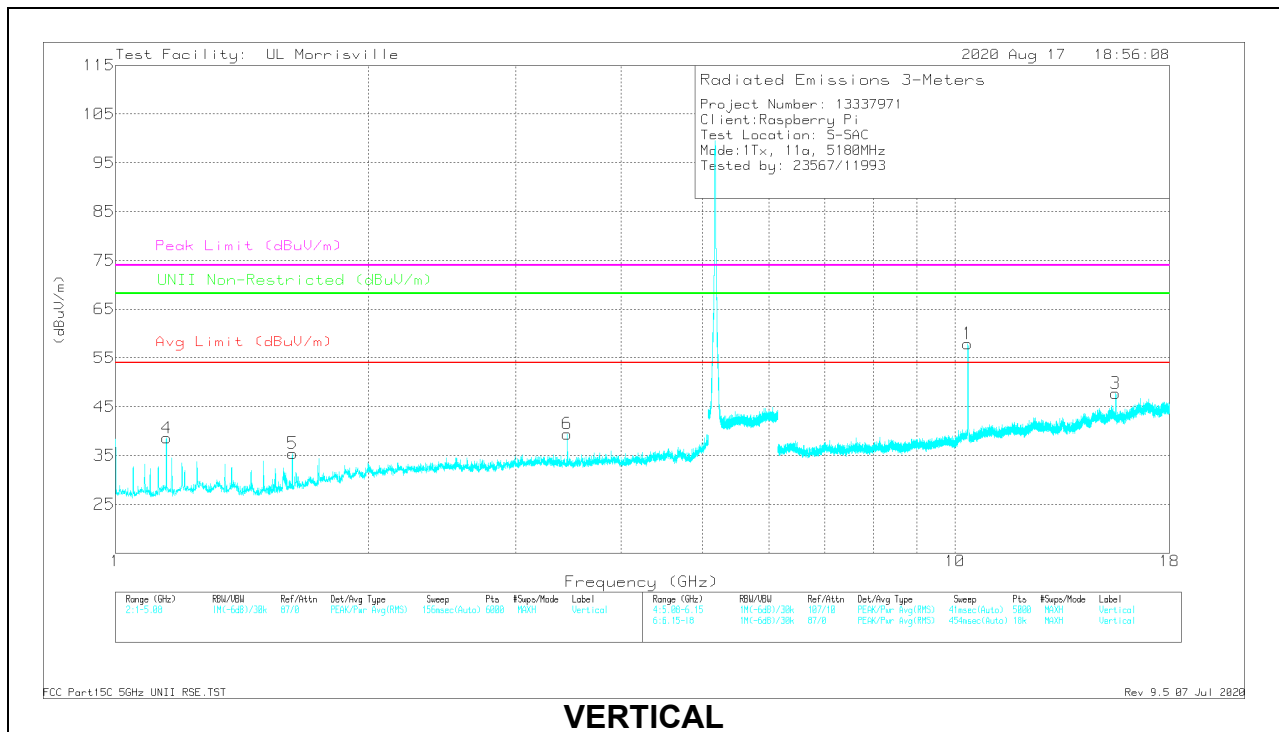
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
7	*** 1.15024	48.62	PK-U	28.4	-35.3	41.72	-	-	74	-32.28	-	-	79	170	H
	*** 1.15005	42.87	ADV	28.4	-35.3	35.97	54	-18.03	-	-	-	-	79	170	H
8	* 1.25039	51.09	PK-U	29.2	-35.1	45.19	-	-	74	-28.81	-	-	20	174	H
	* 1.25005	47.1	ADV	29.2	-35.1	41.2	54	-12.8	-	-	-	-	20	174	H
9	*** 1.62488	47.81	PK-U	28.5	-34.4	41.91	-	-	74	-32.09	-	-	211	163	H
	*** 1.62488	41.59	ADV	28.5	-34.4	35.69	54	-18.31	-	-	-	-	211	163	H
4	*** 1.15013	49.44	PK-U	28.4	-35.3	42.54	-	-	74	-31.46	-	-	29	137	V
	*** 1.15002	45.06	ADV	28.4	-35.3	38.16	54	-15.84	-	-	-	-	29	137	V
5	*** 1.62488	45.74	PK-U	28.5	-34.4	39.84	-	-	74	-34.16	-	-	262	101	V
	*** 1.62488	38.78	ADV	28.5	-34.4	32.88	54	-21.12	-	-	-	-	262	101	V
3	*** 15.53715	41.19	PK-U	40.3	-25.1	56.39	-	-	74	-17.61	-	-	224	215	V
	*** 15.5371	28	ADV	40.3	-25.1	43.2	54	-10.8	-	-	-	-	224	215	V
6	3.45315	44.88	PK-U	32.8	-32.8	44.88	-	-	-	-	68.2	-23.32	277	183	V
1	10.35572	54.83	PK-U	37.6	-25.4	67.03	-	-	-	-	68.2	-1.17	270	277	V
2	10.35636	52.94	PK-U	37.6	-25.4	65.14	-	-	-	-	68.2	-3.06	242	389	H

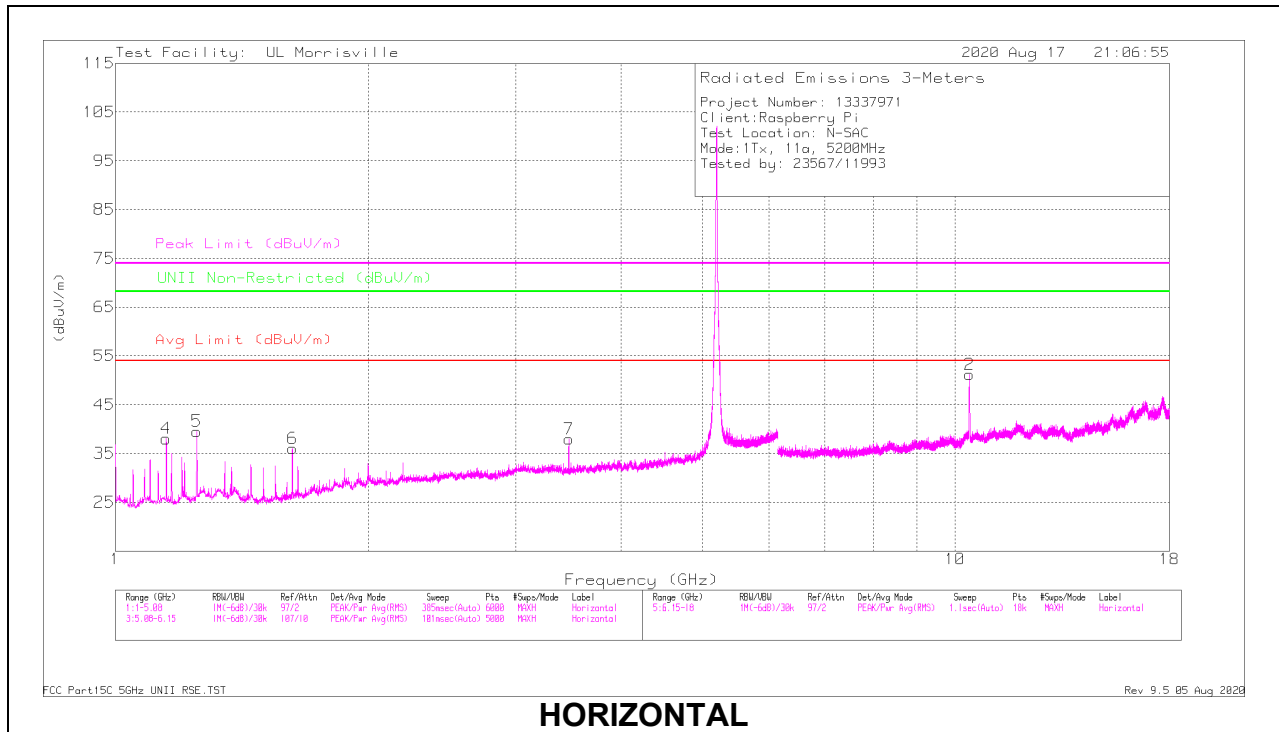
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

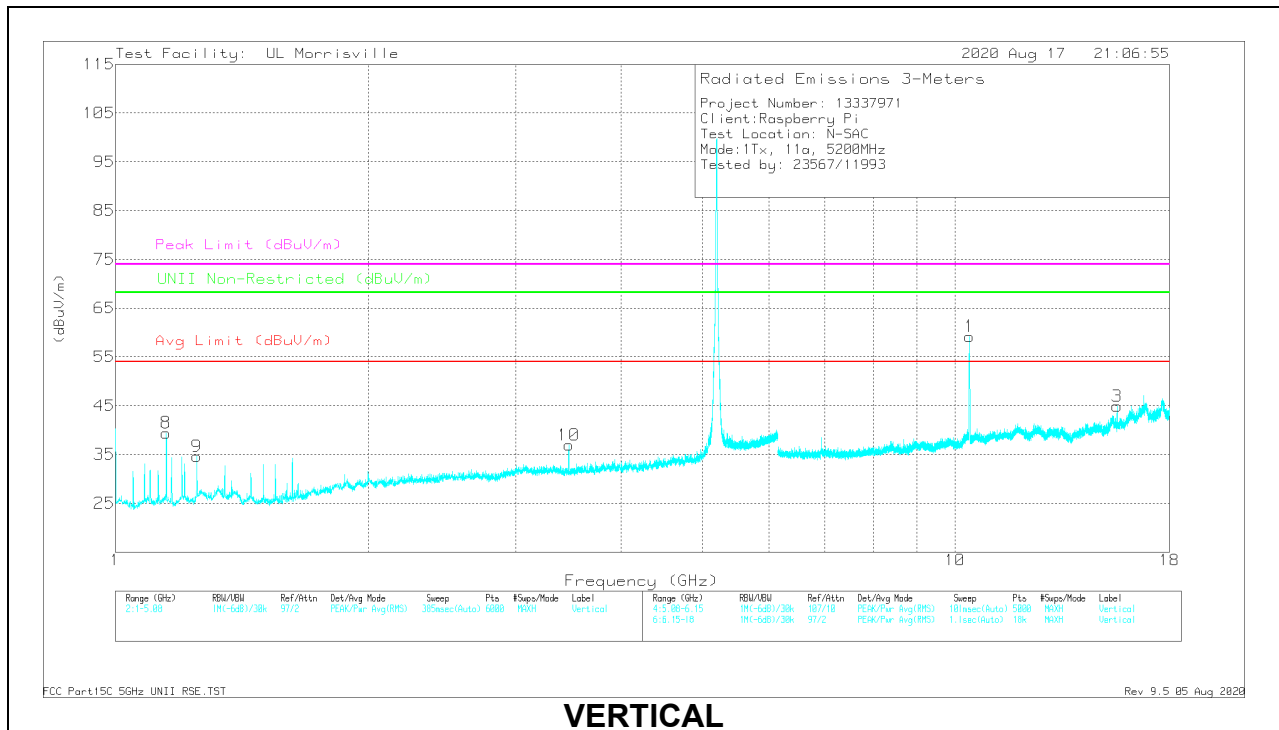
PK-U - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

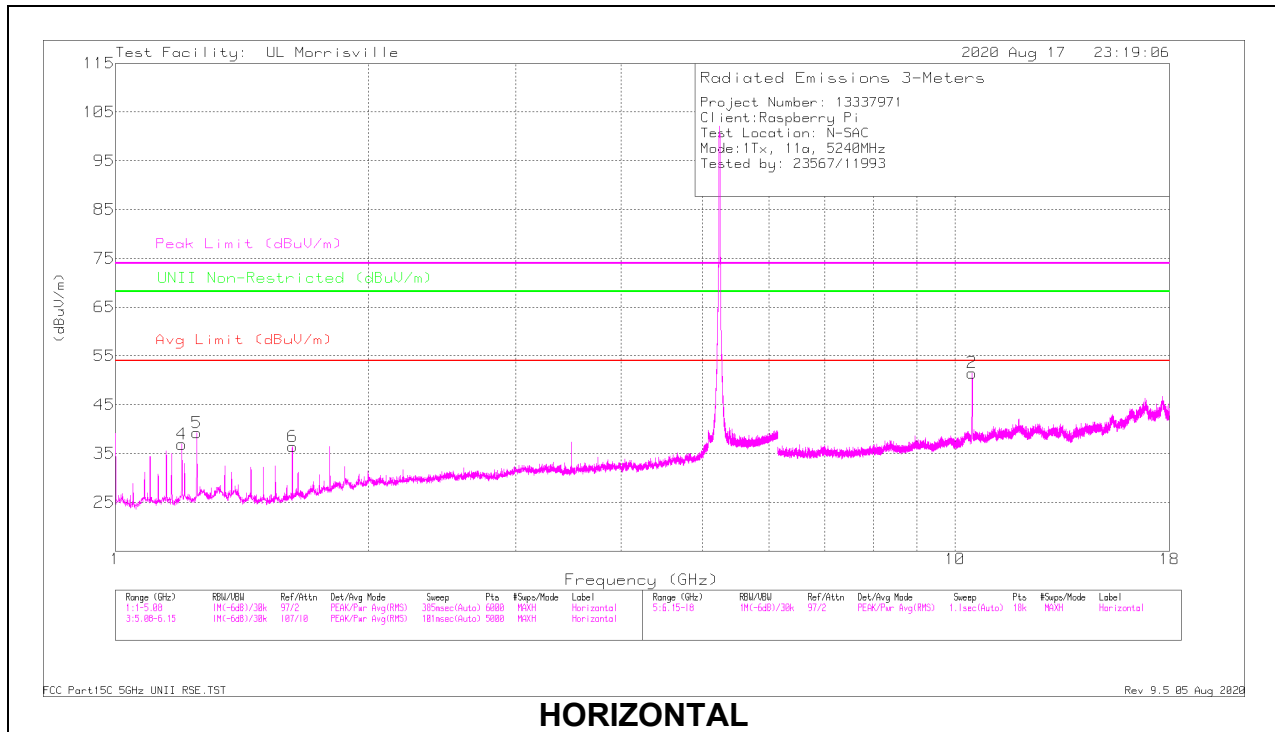


**RADIATED EMISSIONS**

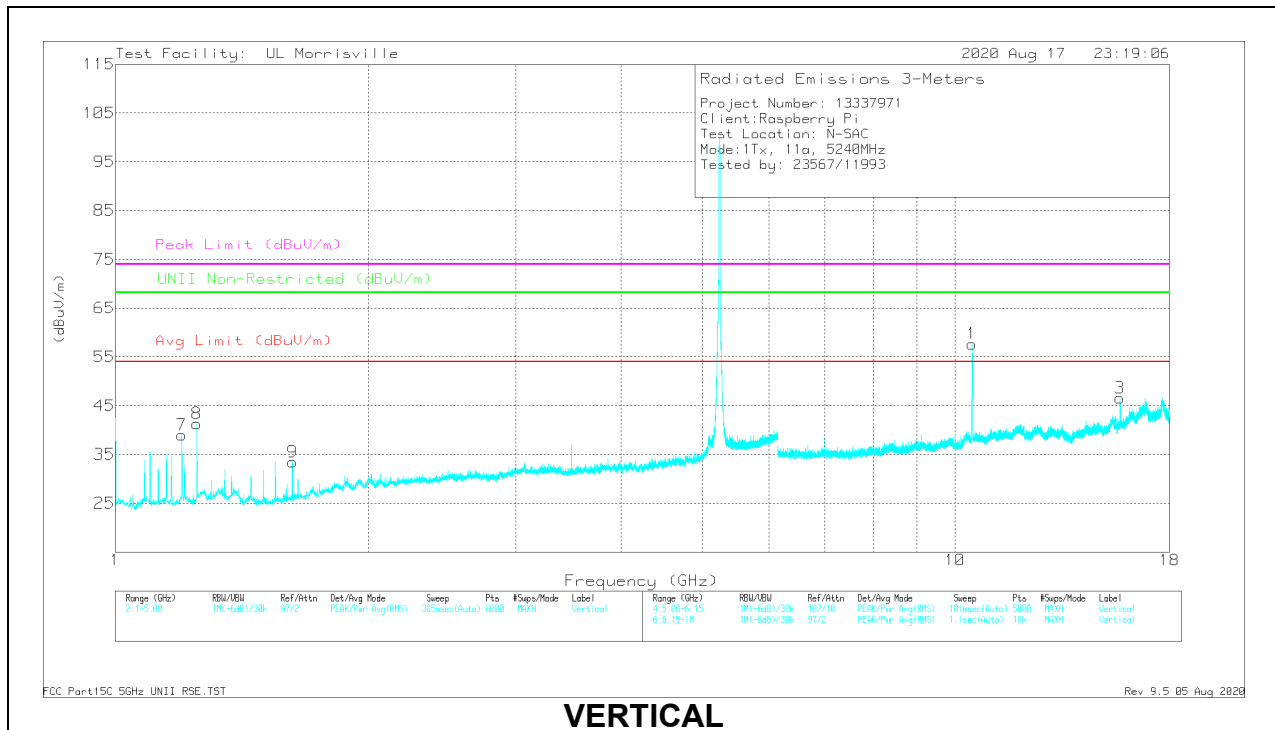
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB/(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*** 1.1499	51.86	PK-U	28.1	-37	42.96	-	-	74	-31.04	-	-	2	110	H
	*** 1.15004	47.51	ADV	28.1	-37	38.61	54	-15.39	-	-	-	-	2	110	H
5	* 1.25005	51.71	PK-U	29.1	-36.6	44.21	-	-	74	-29.79	-	-	315	298	H
	* 1.25005	47.2	ADV	29.1	-36.6	39.7	54	-14.3	-	-	-	-	315	298	H
6	*** 1.62516	49.29	PK-U	28.2	-35.4	42.09	-	-	74	-31.91	-	-	37	332	H
	*** 1.62516	43.78	ADV	28.2	-35.4	36.58	54	-17.42	-	-	-	-	37	332	H
8	*** 1.15014	51.92	PK-U	28.1	-37	43.02	-	-	74	-30.98	-	-	344	103	V
	*** 1.15008	47.18	ADV	28.1	-37	38.28	54	-15.72	-	-	-	-	344	103	V
9	* 1.24992	48.66	PK-U	29.1	-36.6	41.16	-	-	74	-32.84	-	-	181	347	V
	* 1.25001	41.29	ADV	29.1	-36.6	33.79	54	-20.21	-	-	-	-	181	347	V
3	*** 15.5937	43.51	PK-U	40.2	-26.9	56.81	-	-	74	-17.19	-	-	149	245	V
	*** 15.59668	30.14	ADV	40.2	-26.9	43.44	54	-10.56	-	-	-	-	149	245	V
7	3.4666	44.65	PK-U	32.9	-33.4	44.15	-	-	-	-	68.2	-24.05	31	107	H
10	3.46668	44.53	PK-U	32.9	-33.4	44.03	-	-	-	-	68.2	-24.17	179	212	V
2	10.39874	51.34	PK-U	37.5	-26.7	62.14	-	-	-	-	68.2	-6.06	130	213	H
1	10.40113	57.25	PK-U	37.6	-26.8	68.05	-	-	-	-	68.2	-15	187	204	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	*** 1.20001	49.99	PK-U	28.7	-36.9	41.79	-	-	74	-32.21	-	-	354	204	H
	*** 1.20006	44.32	ADV	28.7	-36.9	36.12	54	-17.88	-	-	-	-	354	204	H
5	* 1.24995	51.43	PK-U	29.1	-36.6	43.93	-	-	74	-30.07	-	-	151	136	H
	* 1.25001	46.69	ADV	29.1	-36.6	39.19	54	-14.81	-	-	-	-	151	136	H
6	*** 1.62516	49.25	PK-U	28.2	-35.4	42.05	-	-	74	-31.95	-	-	23	333	H
	*** 1.62516	44.46	ADV	28.2	-35.4	37.26	54	-16.74	-	-	-	-	23	333	H
7	*** 1.19993	51.65	PK-U	28.7	-36.9	43.45	-	-	74	-30.55	-	-	344	126	V
	*** 1.2	46.04	ADV	28.7	-36.9	37.84	54	-16.16	-	-	-	-	344	126	V
8	* 1.25011	52.39	PK-U	29.1	-36.6	44.89	-	-	74	-29.11	-	-	181	245	V
	* 1.25005	47.89	ADV	29.1	-36.6	40.39	54	-13.61	-	-	-	-	181	245	V
9	*** 1.62478	46.84	PK-U	28.2	-35.4	39.64	-	-	74	-34.36	-	-	131	304	V
	*** 1.62516	41.7	ADV	28.2	-35.4	34.5	54	-19.5	-	-	-	-	131	304	V
3	*** 15.72294	43.29	PK-U	40.1	-26.2	57.19	-	-	74	-16.81	-	-	155	235	V
	*** 15.722	29.49	ADV	40.1	-26.2	43.39	54	-10.61	-	-	-	-	155	235	V
1	10.47875	57.85	PK-U	37.6	-27.3	68.15	-	-	-	-	68.2	-.05	187	196	V
2	10.48279	54.5	PK-U	37.6	-27.3	64.8	-	-	-	-	68.2	-3.4	253	358	H

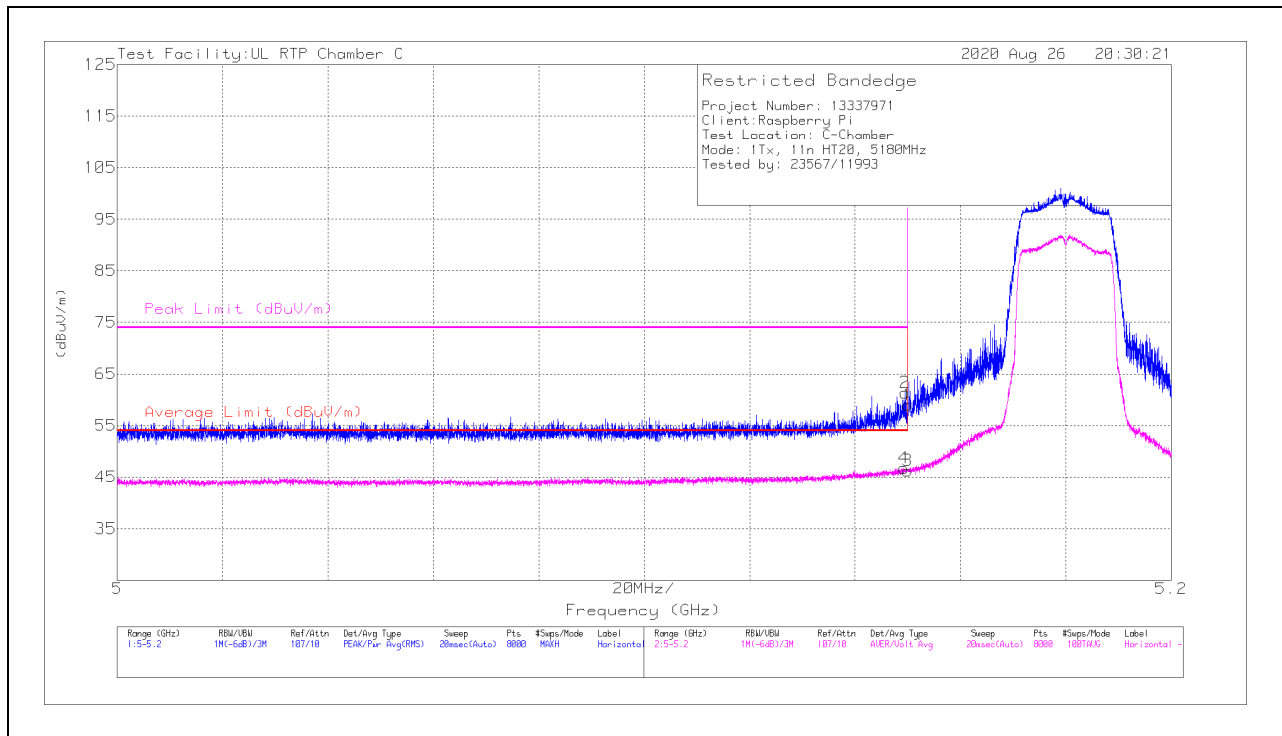
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**9.1.2. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND**

**1TX Antenna 1 MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	40.54	Pk	34.2	-15.8	58.94	-	-	74	-15.06	152	399	H
2	* ** 5.14949	42.97	Pk	34.2	-15.8	61.37	-	-	74	-12.63	152	399	H
3	* ** 5.14999	27.84	ADV	34.2	-15.8	46.24	54	-7.76	-	-	152	399	H
4	* ** 5.14922	28.34	ADV	34.2	-15.8	46.74	54	-7.26	-	-	152	399	H

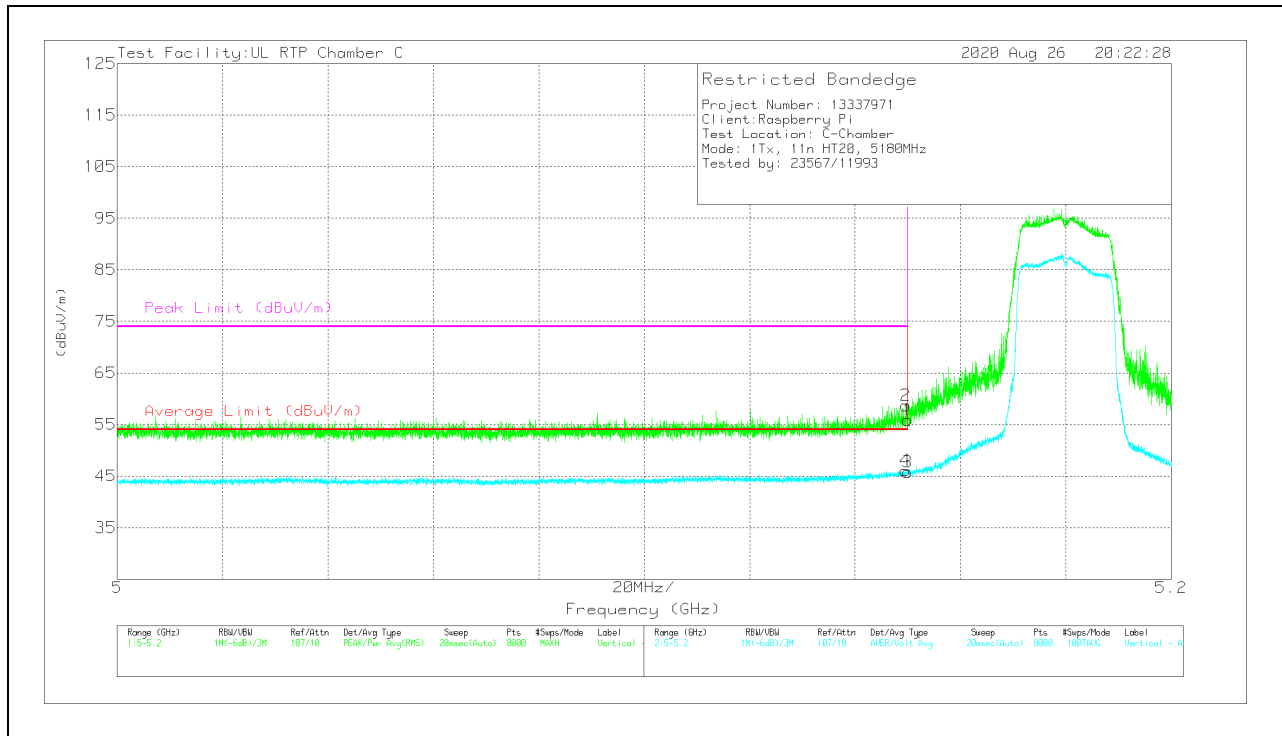
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

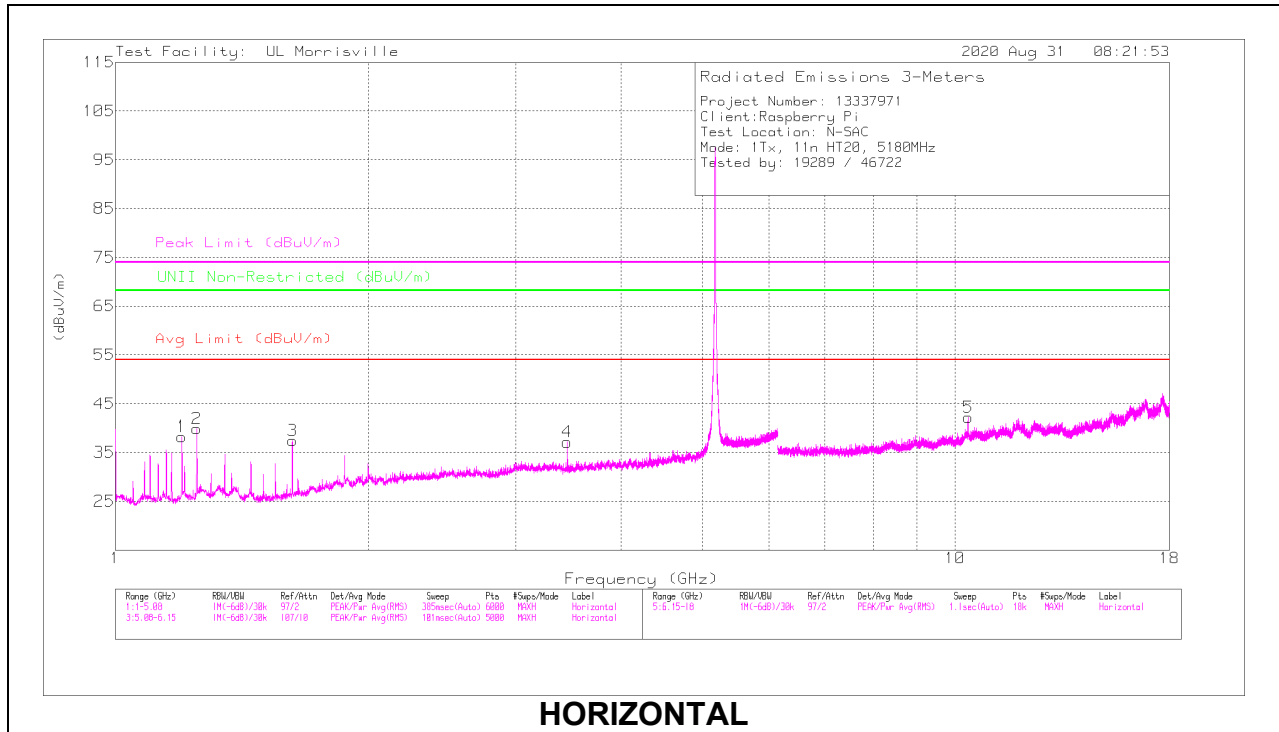


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	37.49	Pk	34.2	-15.8	55.89	-	-	74	-18.11	331	398	V
2	* ** 5.14964	40.29	Pk	34.2	-15.8	58.69	-	-	74	-15.31	331	398	V
3	* ** 5.14999	27.37	ADV	34.2	-15.8	45.77	54	-8.23	-	-	331	398	V
4	* ** 5.14954	27.68	ADV	34.2	-15.8	46.08	54	-7.92	-	-	331	398	V

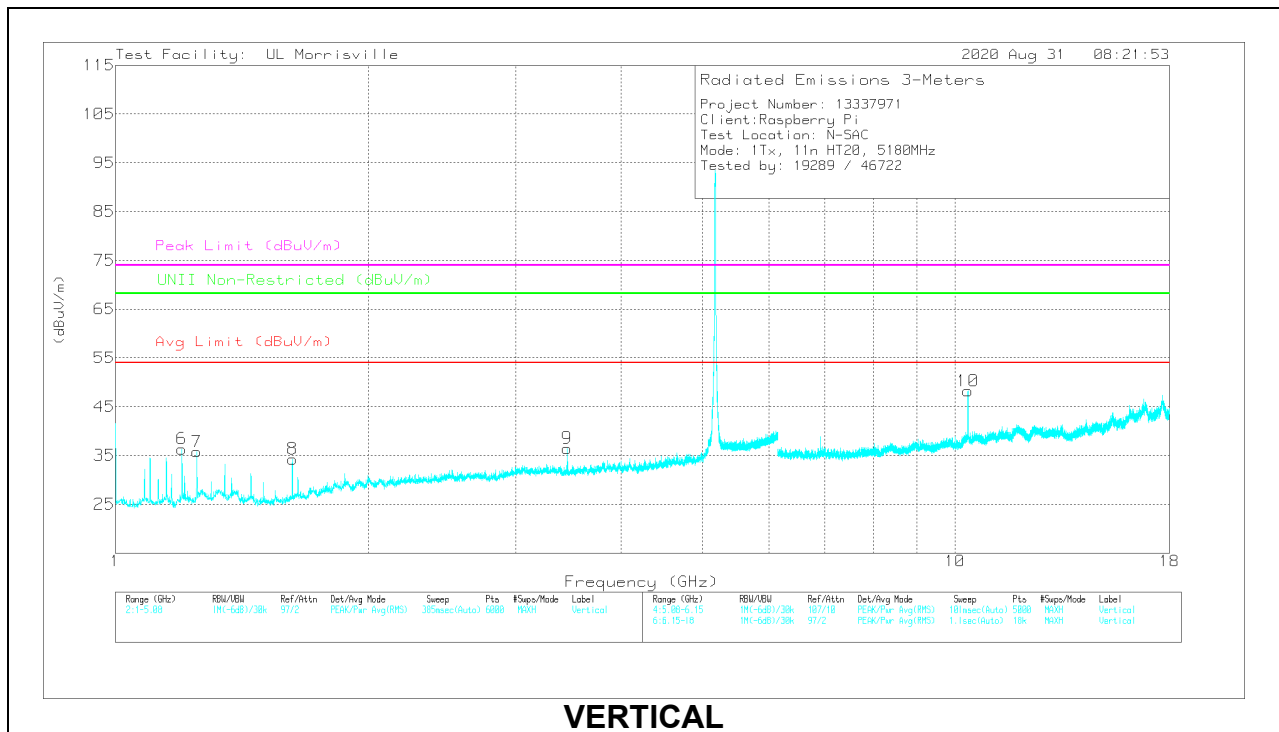
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



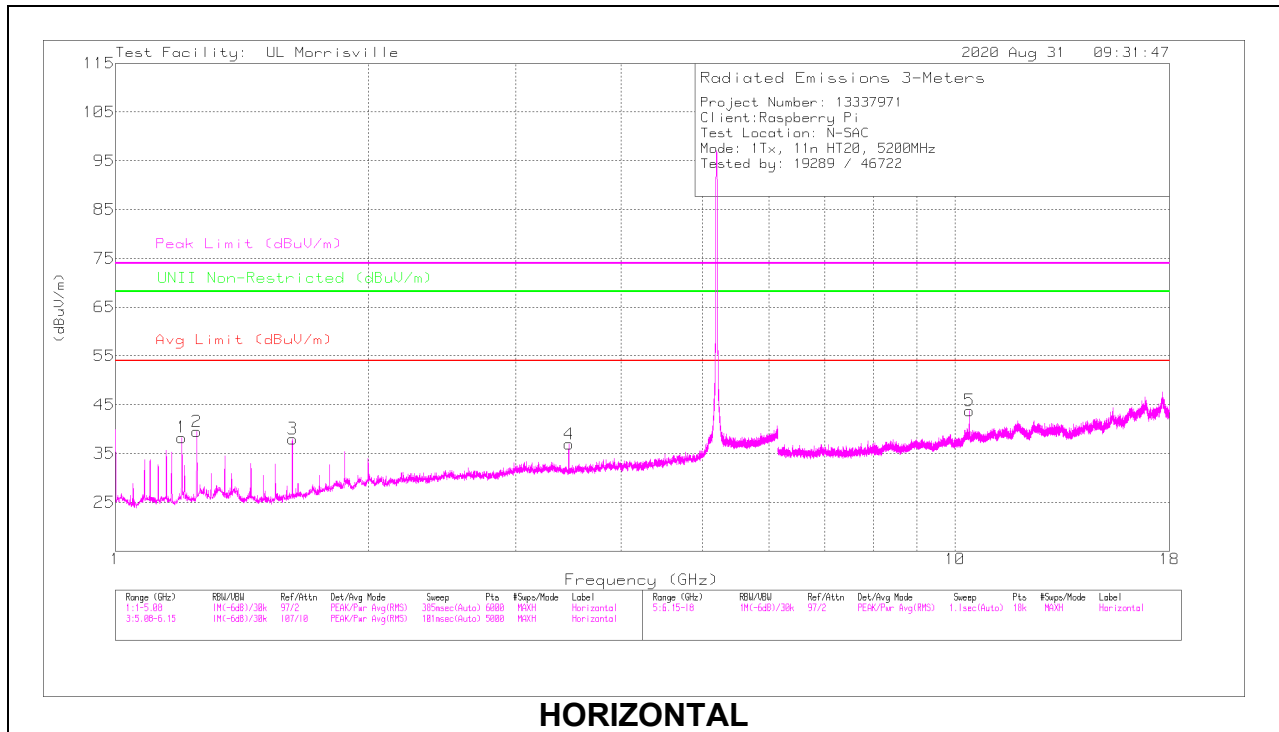
**VERTICAL**

**RADIATED EMISSIONS**

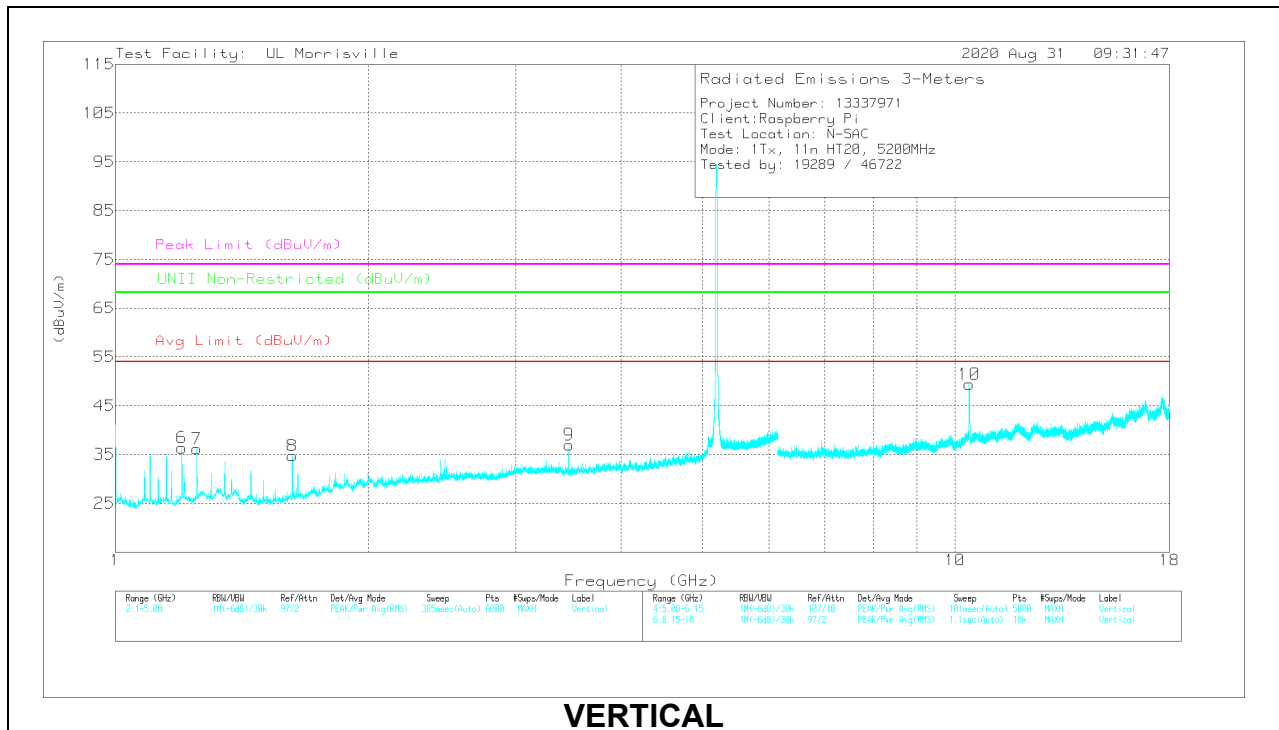
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Fitr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20004	51.49	PK-U	28.7	-36.9	43.29	-	-	74	-30.71	-	-	130	106	H
	*** 1.20003	46.12	ADV	28.7	-36.9	37.92	54	-16.08	-	-	-	-	130	106	H
2	* 1.25017	51.37	PK-U	29.1	-36.6	43.87	-	-	74	-30.13	-	-	279	102	H
	* 1.25001	46.61	ADV	29.1	-36.6	39.11	54	-14.89	-	-	-	-	279	102	H
3	*** 1.62498	50.25	PK-U	28.2	-35.4	43.05	-	-	74	-30.95	-	-	37	117	H
	*** 1.62511	43.8	ADV	28.2	-35.4	36.6	54	-17.4	-	-	-	-	37	117	H
6	*** 1.20006	49.16	PK-U	28.7	-36.9	40.96	-	-	74	-33.04	-	-	318	179	V
	*** 1.20002	42.03	ADV	28.7	-36.9	33.83	54	-20.17	-	-	-	-	318	179	V
7	* 1.24977	49.05	PK-U	29.1	-36.6	41.55	-	-	74	-32.45	-	-	127	227	V
	* 1.25003	42.84	ADV	29.1	-36.6	35.34	54	-18.66	-	-	-	-	127	227	V
8	*** 1.62499	58.48	PK-U	28.2	-35.4	51.28	-	-	74	-22.72	-	-	91	268	V
	*** 1.62509	44.16	ADV	28.2	-35.4	36.96	54	-17.04	-	-	-	-	91	268	V
9	3.45328	45.69	PK-U	32.9	-33.3	45.29	-	-	-	-	68.2	-22.91	214	157	V
4	3.4533	44.97	PK-U	32.9	-33.3	44.57	-	-	-	-	68.2	-23.63	170	229	H
5	10.35857	48.43	PK-U	37.5	-25.9	60.03	-	-	-	-	68.2	-8.17	163	398	H
10	10.35877	50.75	PK-U	37.5	-25.9	62.35	-	-	-	-	68.2	-5.85	175	294	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

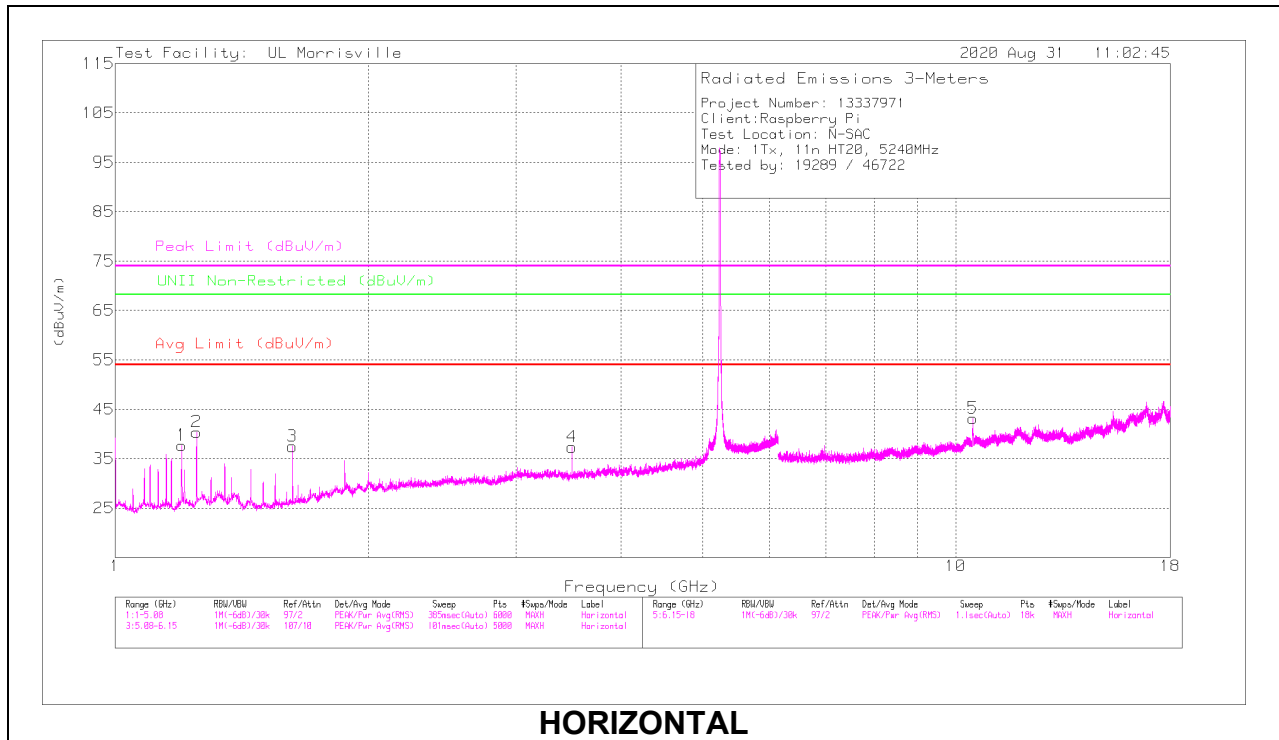


**RADIATED EMISSIONS**

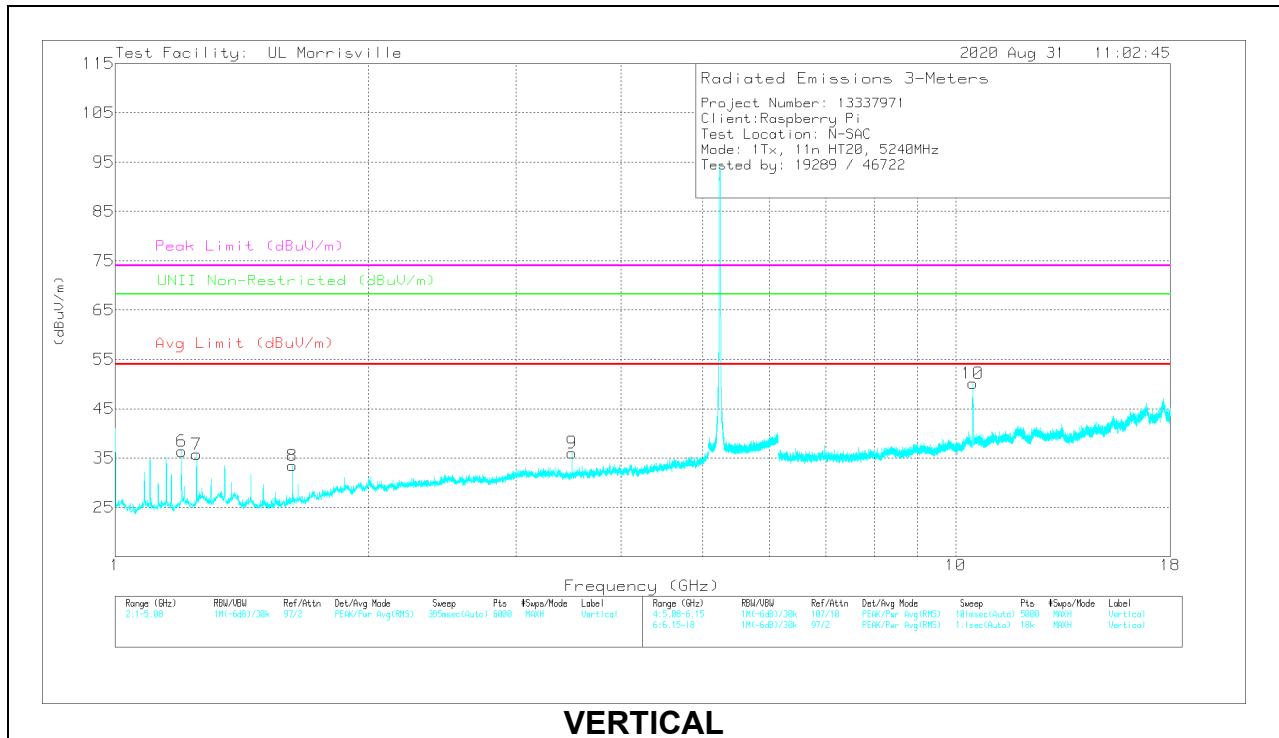
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB/(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.1997	50.43	PK-U	28.7	-36.9	42.23	-	-	74	-31.77	-	-	321	249	H
	*** 1.20001	44.88	ADV	28.7	-36.9	36.68	54	-17.32	-	-	-	-	321	249	H
2	* 1.24964	51.88	PK-U	29.1	-36.6	44.38	-	-	74	-29.62	-	-	329	229	H
	* 1.24999	45.91	ADV	29.1	-36.6	38.41	54	-15.59	-	-	-	-	329	229	H
3	*** 1.62512	50.11	PK-U	28.2	-35.4	42.91	-	-	74	-31.09	-	-	136	160	H
	*** 1.62501	44.32	ADV	28.2	-35.4	37.12	54	-16.88	-	-	-	-	136	160	H
6	*** 1.20005	48.78	PK-U	28.7	-36.9	40.58	-	-	74	-33.42	-	-	265	163	V
	*** 1.19993	41.68	ADV	28.7	-36.9	33.48	54	-20.52	-	-	-	-	265	163	V
7	* 1.24986	49.43	PK-U	29.1	-36.6	41.93	-	-	74	-32.07	-	-	122	227	V
	* 1.25	42.77	ADV	29.1	-36.6	35.27	54	-18.73	-	-	-	-	122	227	V
8	*** 1.6251	49.74	PK-U	28.2	-35.4	42.54	-	-	74	-31.46	-	-	93	360	V
	*** 1.62494	43.97	ADV	28.2	-35.4	36.77	54	-17.23	-	-	-	-	93	360	V
9	3.46674	45.34	PK-U	32.9	-33.4	44.84	-	-	-	-	68.2	-23.36	206	165	V
4	3.46679	45.3	PK-U	32.9	-33.4	44.8	-	-	-	-	68.2	-23.4	260	360	H
5	10.39873	47.99	PK-U	37.5	-26.7	58.79	-	-	-	-	68.2	-9.41	160	334	H
10	10.40218	51.82	PK-U	37.6	-26.8	62.62	-	-	-	-	68.2	-5.58	176	297	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

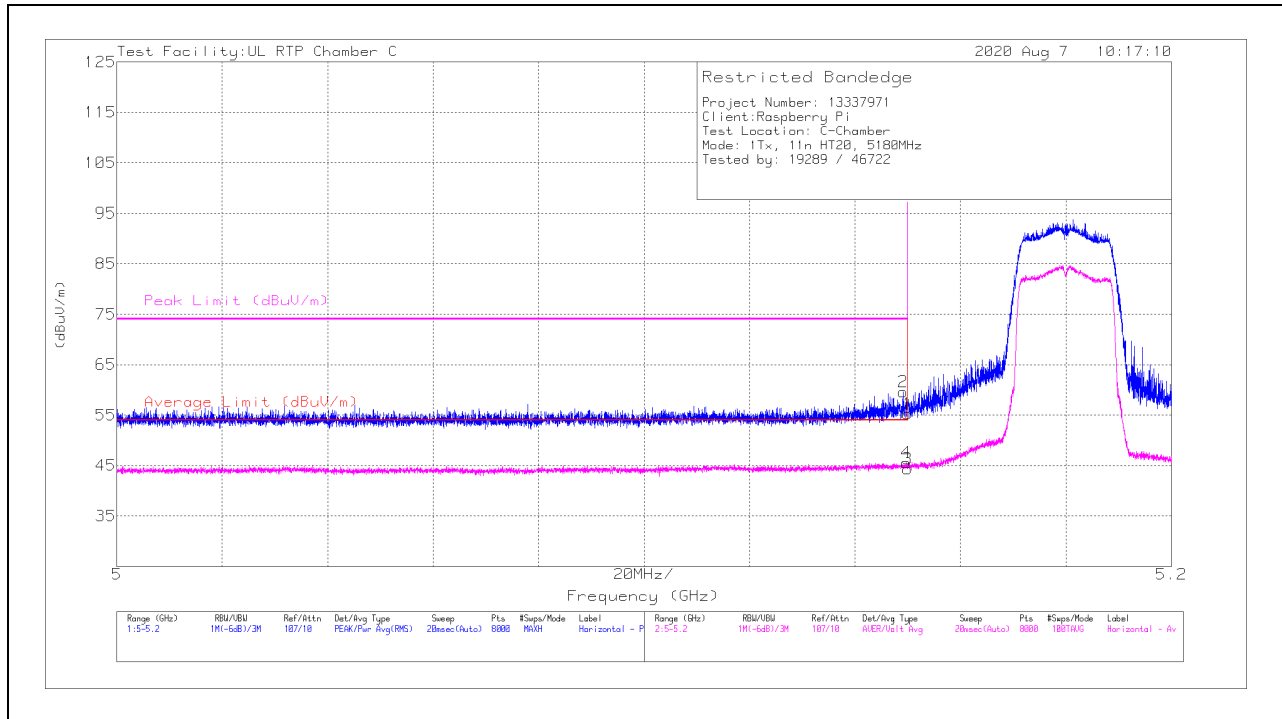
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB/(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20017	51.91	PK-U	28.7	-36.9	43.71	-	-	74	-30.29	-	-	124	102	H
	*** 1.20002	45.99	ADV	28.7	-36.9	37.79	54	-16.21	-	-	-	-	124	102	H
2	* 1.24997	51.34	PK-U	29.1	-36.6	43.84	-	-	74	-30.16	-	-	279	101	H
	* 1.25003	46.68	ADV	29.1	-36.6	39.18	54	-14.82	-	-	-	-	279	101	H
3	*** 1.62497	49.89	PK-U	28.2	-35.4	42.69	-	-	74	-31.31	-	-	41	141	H
	*** 1.62504	44.12	ADV	28.2	-35.4	36.92	54	-17.08	-	-	-	-	41	141	H
6	*** 1.20032	49.96	PK-U	28.7	-36.9	41.76	-	-	74	-32.24	-	-	264	186	V
	*** 1.20003	43.78	ADV	28.7	-36.9	35.58	54	-18.42	-	-	-	-	264	186	V
7	* 1.25017	49.45	PK-U	29.1	-36.6	41.95	-	-	74	-32.05	-	-	118	202	V
	* 1.24997	42.16	ADV	29.1	-36.6	34.66	54	-19.34	-	-	-	-	118	202	V
8	*** 1.625	50.18	PK-U	28.2	-35.4	42.98	-	-	74	-31.02	-	-	83	345	V
	*** 1.6251	44.11	ADV	28.2	-35.4	36.91	54	-17.09	-	-	-	-	83	345	V
9	3.49346	44.92	PK-U	32.9	-33.3	44.52	-	-	-	-	68.2	-23.68	201	163	V
4	3.49354	45.38	PK-U	32.9	-33.3	44.98	-	-	-	-	68.2	-23.22	260	353	H
10	10.47827	53.91	PK-U	37.6	-27.3	64.21	-	-	-	-	68.2	-3.99	212	273	V
5	10.48029	42.95	PK-U	37.6	-27.3	53.25	-	-	-	-	68.2	-14.95	129	296	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**1TX Antenna 2 MODE**

**BANDEDGE (LOW CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	36.83	Pk	34.2	-15.8	55.23	-	-	74	-18.77	334	123	H
2	* ** 5.14914	41.21	Pk	34.2	-15.8	59.61	-	-	74	-14.39	334	123	H
3	* ** 5.14999	25.93	ADV	34.2	-15.8	44.33	54	-9.67	-	-	334	123	H
4	* ** 5.14974	27.15	ADV	34.2	-15.8	45.55	54	-8.45	-	-	334	123	H

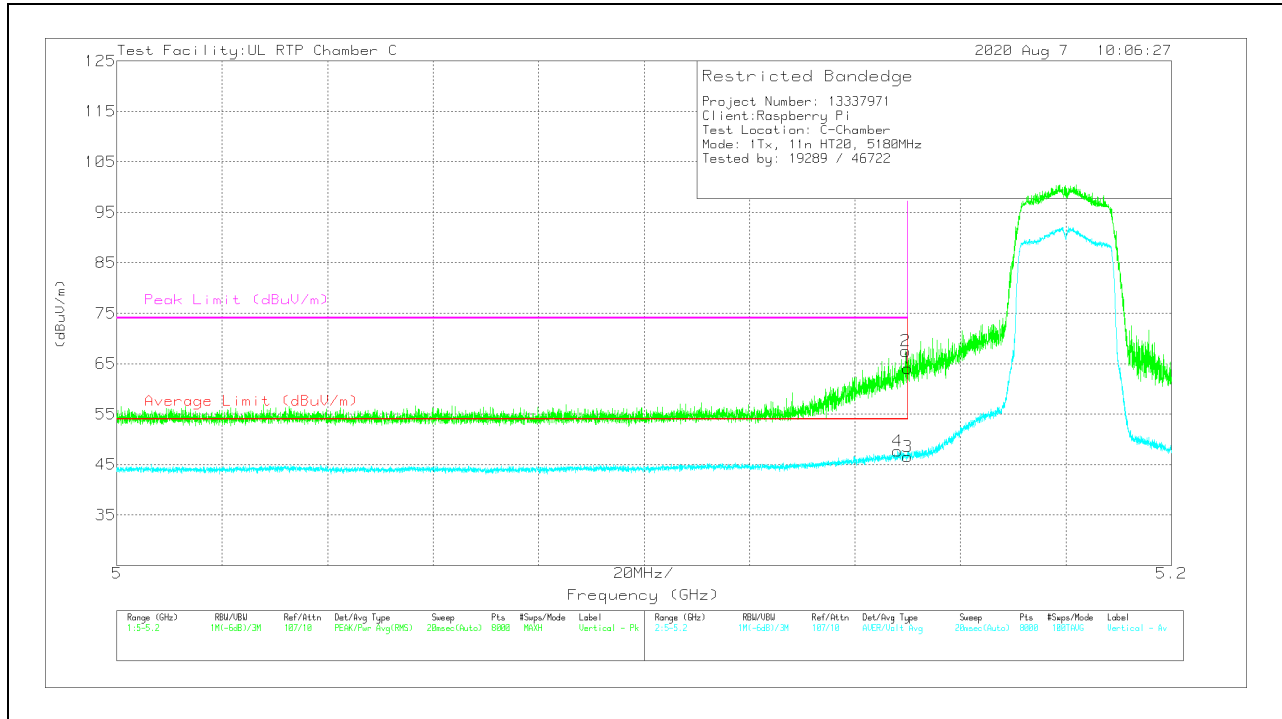
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

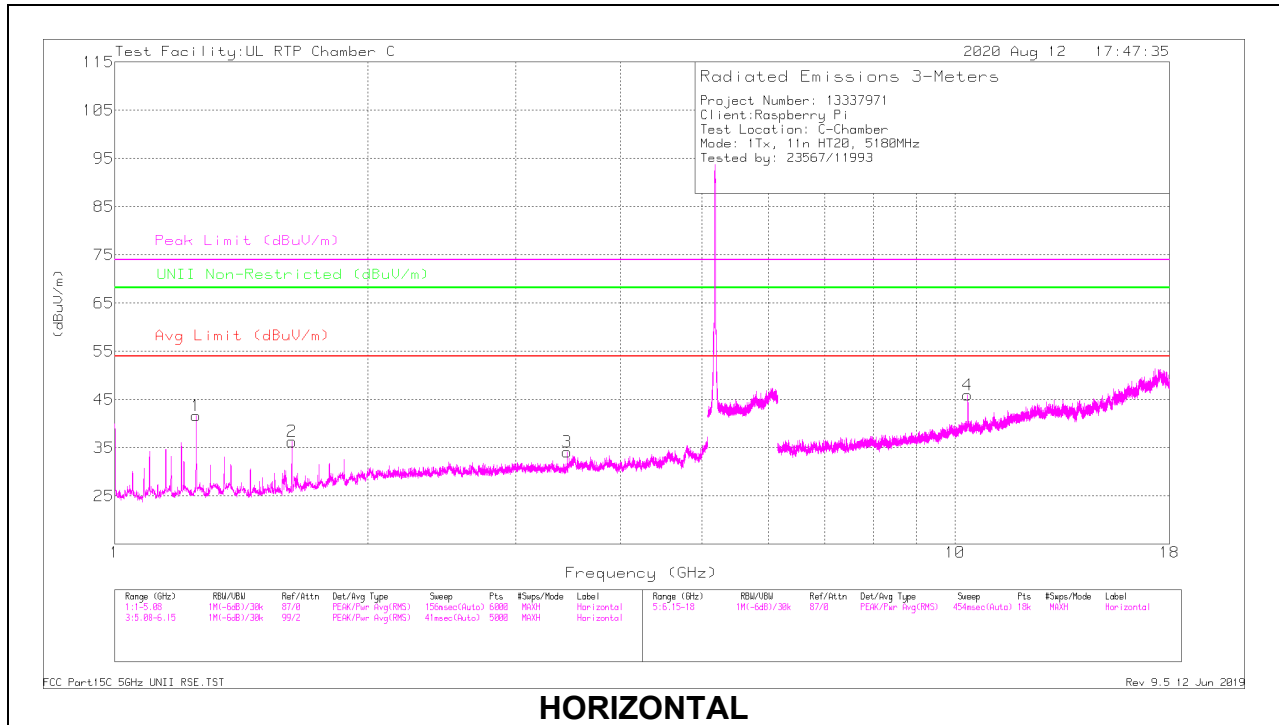


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	45.65	Pk	34.2	-15.8	64.05	-	-	74	-9.95	276	121	V
2	* ** 5.14959	49.09	Pk	34.2	-15.8	67.49	-	-	74	-6.51	276	121	V
3	* ** 5.14999	28.12	ADV	34.2	-15.8	46.52	54	-7.48	-	-	276	121	V
4	* ** 5.14807	29.29	ADV	34.2	-15.8	47.69	54	-6.31	-	-	276	121	V

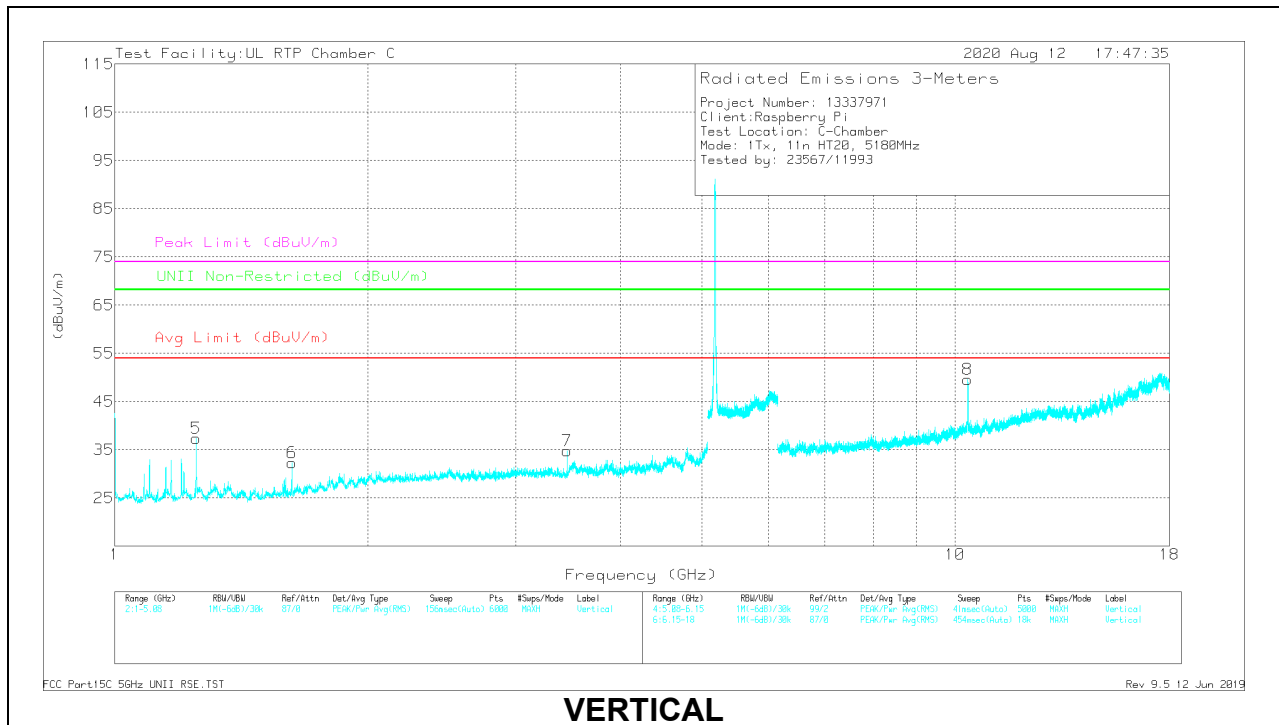
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25017	70.02	PK-U	28.6	-55.3	43.32	-	-	74	-30.68	-	-	209	102	H
	* 1.25002	66.23	ADV	28.6	-55.3	39.53	54	-14.47	-	-	-	-	209	102	H
2	** 1.62525	65.91	PK-U	28.5	-54.1	40.31	-	-	74	-33.69	-	-	295	232	H
	** 1.62488	60.38	ADV	28.5	-54.1	34.78	54	-19.22	-	-	-	-	295	232	H
5	* 1.24994	71.33	PK-U	28.6	-55.3	44.63	-	-	74	-29.37	-	-	151	318	V
	* 1.25002	67.29	ADV	28.6	-55.3	40.59	54	-13.41	-	-	-	-	151	318	V
6	** 1.62525	62.48	PK-U	28.5	-54.1	36.88	-	-	74	-37.12	-	-	314	102	V
	** 1.62488	55.65	ADV	28.5	-54.1	30.05	54	-23.95	-	-	-	-	314	102	V
3	3.45316	57.8	PK-U	32.7	-50.7	39.8	-	-	-	-	68.2	-28.4	328	103	H
7	3.45335	59.42	PK-U	32.7	-50.7	41.42	-	-	-	-	68.2	-26.78	301	243	V
4	10.35869	62.52	PK-U	37.3	-44.2	55.62	-	-	-	-	68.2	-12.58	108	118	H
8	10.36168	61.5	PK-U	37.3	-44.1	54.7	-	-	-	-	68.2	-13.5	360	268	V

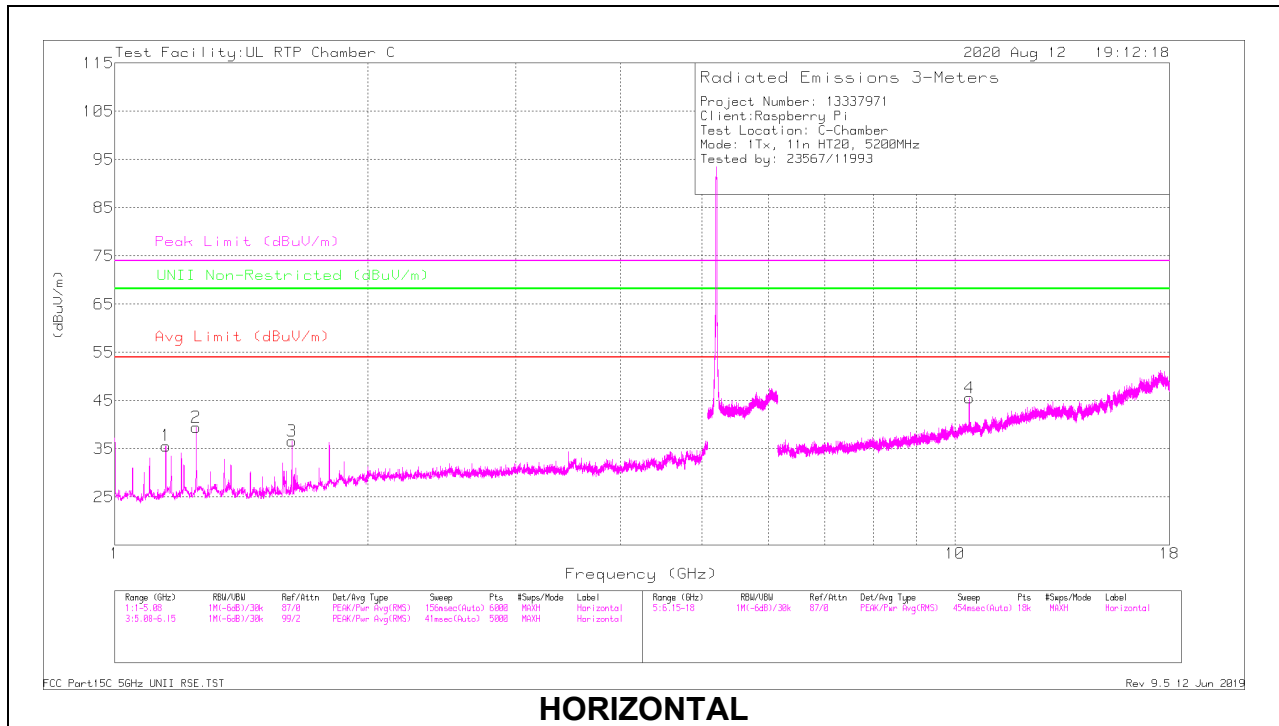
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

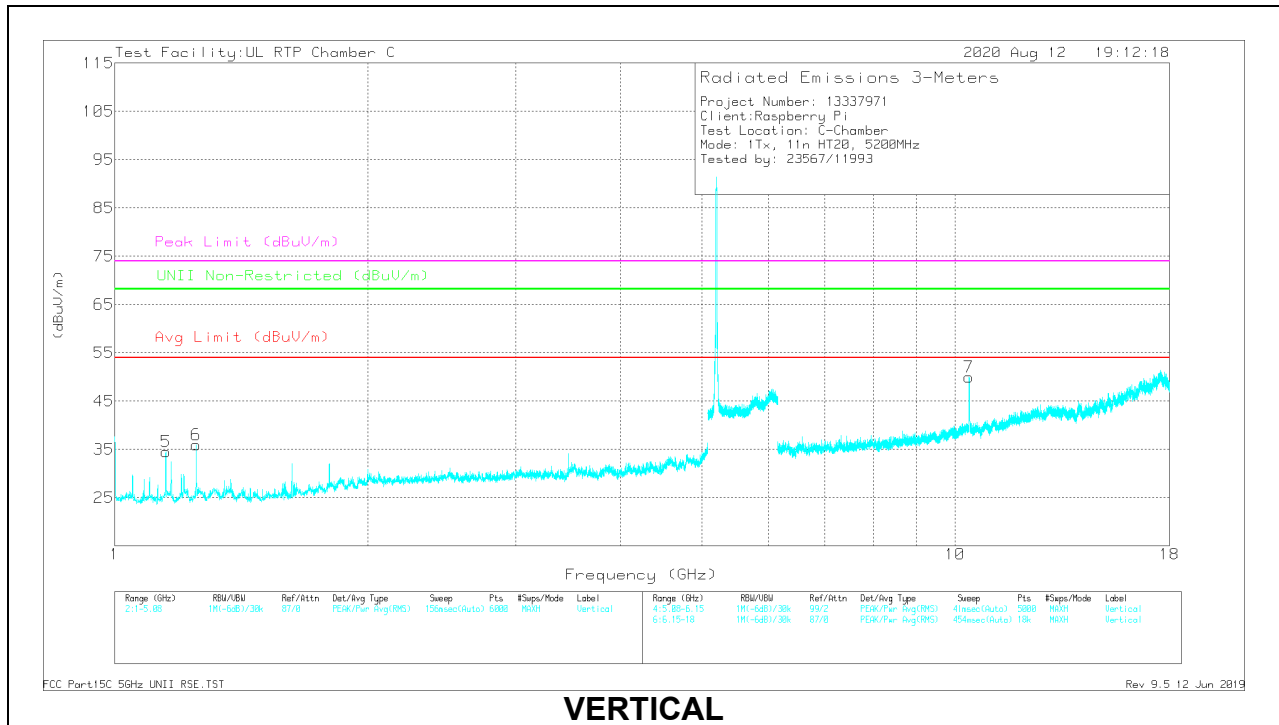
PK-U - U-NII: Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL



**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.15006	68.53	PK-U	27.4	-54.9	41.03	-	-	74	-32.97	-	-	213	127	H
	*** 1.15001	63.84	ADV	27.4	-54.9	36.34	54	-17.66	-	-	-	-	213	127	H
2	* 1.25005	68.5	PK-U	28.6	-55.3	41.8	-	-	74	-32.2	-	-	145	103	H
	* 1.24998	63.72	ADV	28.6	-55.3	37.02	54	-16.98	-	-	-	-	145	103	H
3	*** 1.62488	65.32	PK-U	28.5	-54.1	39.72	-	-	74	-34.28	-	-	204	102	H
	*** 1.62488	58.96	ADV	28.5	-54.1	33.36	54	-20.64	-	-	-	-	204	102	H
5	*** 1.15002	66	PK-U	27.4	-54.9	38.5	-	-	74	-35.5	-	-	4	102	V
	*** 1.15002	59.89	ADV	27.4	-54.9	32.39	54	-21.61	-	-	-	-	4	102	V
6	* 1.25001	66.36	PK-U	28.6	-55.3	39.66	-	-	74	-34.34	-	-	45	210	V
	* 1.25003	60.37	ADV	28.6	-55.3	33.67	54	-20.33	-	-	-	-	45	210	V
7	10.39739	67.26	PK-U	37.3	-43.4	61.16	-	-	-	-	68.2	-7.04	345	308	V
4	10.39921	62.82	PK-U	37.3	-43.3	56.82	-	-	-	-	68.2	-11.38	113	107	H

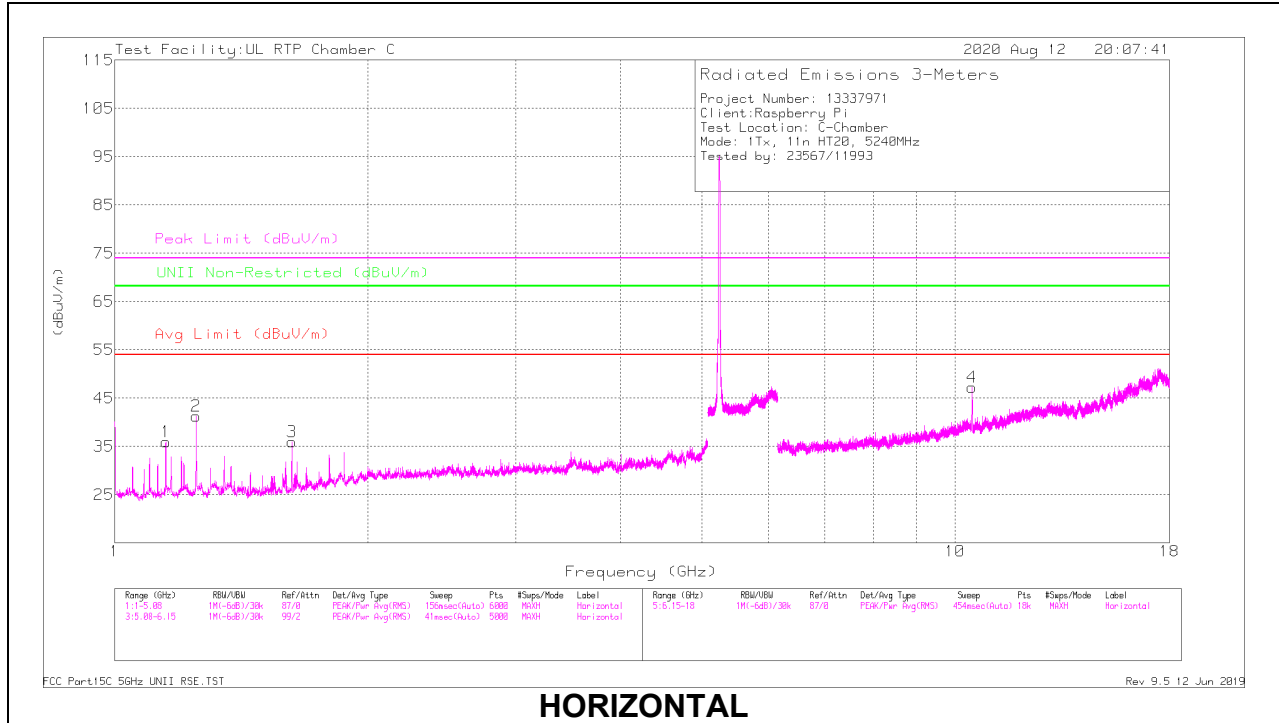
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

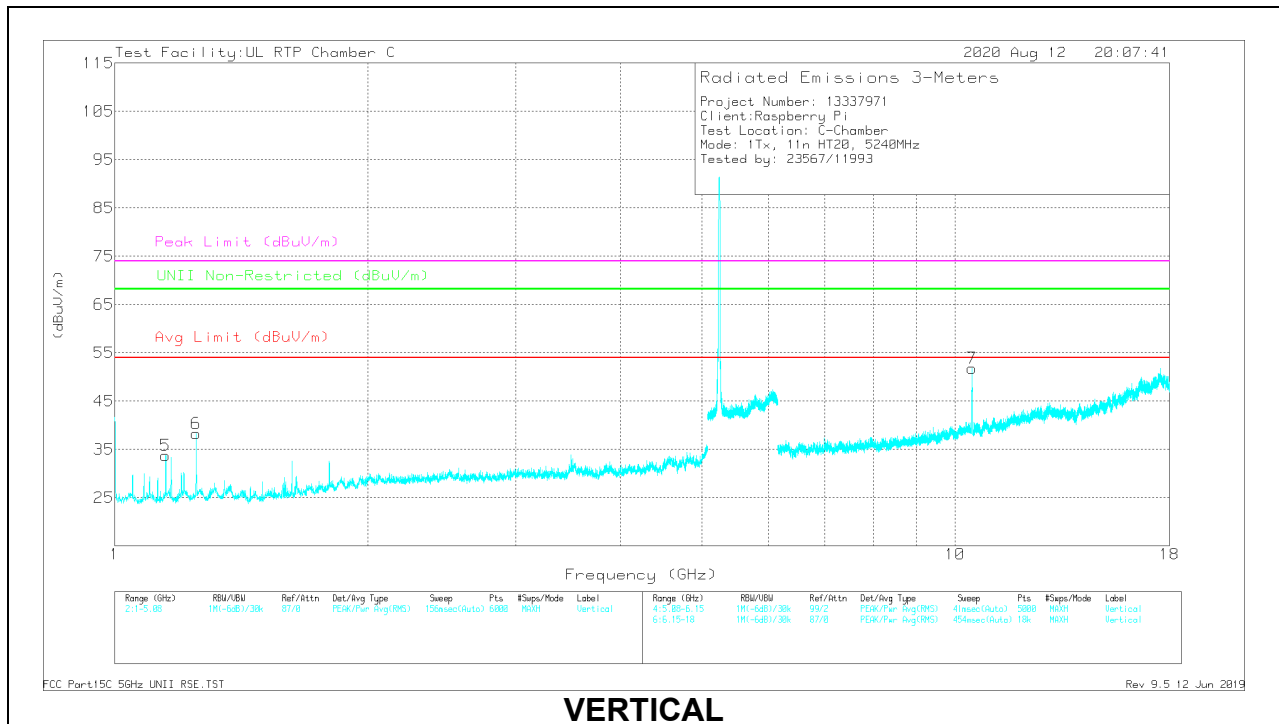
PK-U - U-NII: Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.14994	66.61	PK-U	27.4	-54.9	39.11	-	-	74	-34.89	-	-	217	102	H
	*** 1.15006	61.61	ADV	27.4	-54.9	34.11	54	-19.89	-	-	-	-	217	102	H
2	* 1.24995	70.06	PK-U	28.6	-55.3	43.36	-	-	74	-30.64	-	-	141	102	H
	* 1.25006	66.18	ADV	28.6	-55.3	39.48	54	-14.52	-	-	-	-	141	102	H
3	*** 1.62525	64.87	PK-U	28.5	-54.1	39.27	-	-	74	-34.73	-	-	203	102	H
	*** 1.62488	58.99	ADV	28.5	-54.1	33.39	54	-20.61	-	-	-	-	203	102	H
5	*** 1.15028	65	PK-U	27.4	-54.9	37.5	-	-	74	-36.5	-	-	0	103	V
	*** 1.15002	58.95	ADV	27.4	-54.9	31.45	54	-22.55	-	-	-	-	0	103	V
6	* 1.25002	66.35	PK-U	28.6	-55.3	39.65	-	-	74	-34.35	-	-	264	377	V
	* 1.25007	59.29	ADV	28.6	-55.3	32.59	54	-21.41	-	-	-	-	264	377	V
7	10.48025	66.82	PK-U	37.4	-42.8	61.42	-	-	-	-	68.2	-6.78	360	306	V
4	10.48451	59.37	PK-U	37.4	-42.8	53.97	-	-	-	-	68.2	-14.23	106	106	H

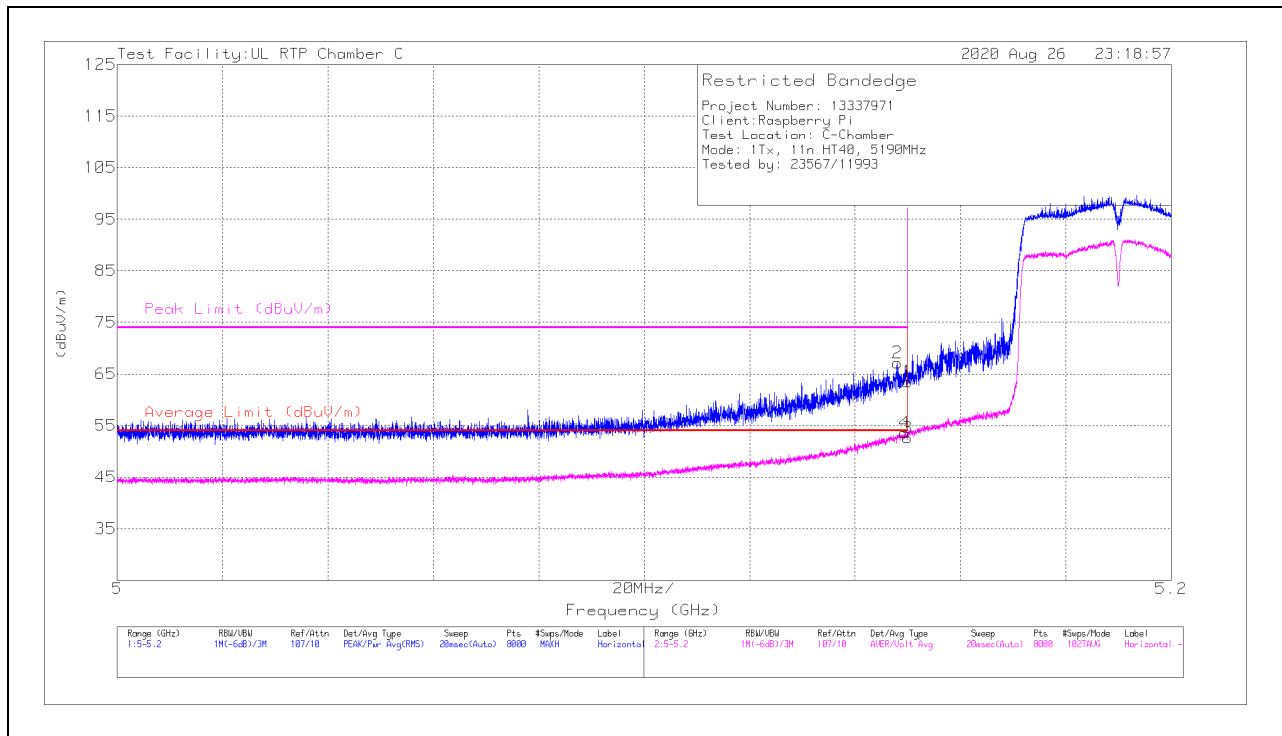
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - U-NII: Maximum Peak  
 ADV - Linear Voltage Average

### 9.1.3. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

#### 1TX Antenna 1 MODE

#### BANDEDGE (LOW CHANNEL)

#### HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	45.1	Pk	34.2	-15.8	0	63.5	-	-	74	-10.5	165	398	H
2	*** 5.14802	48.74	PK	34.2	-15.8	0	67.14	-	-	74	-6.86	165	398	H
3	*** 5.14999	34	ADV	34.2	-15.8	.22	52.62	54	-1.38	-	-	165	398	H
4	*** 5.14942	34.97	ADV	34.2	-15.8	.22	53.59	54	-.41	-	-	165	398	H

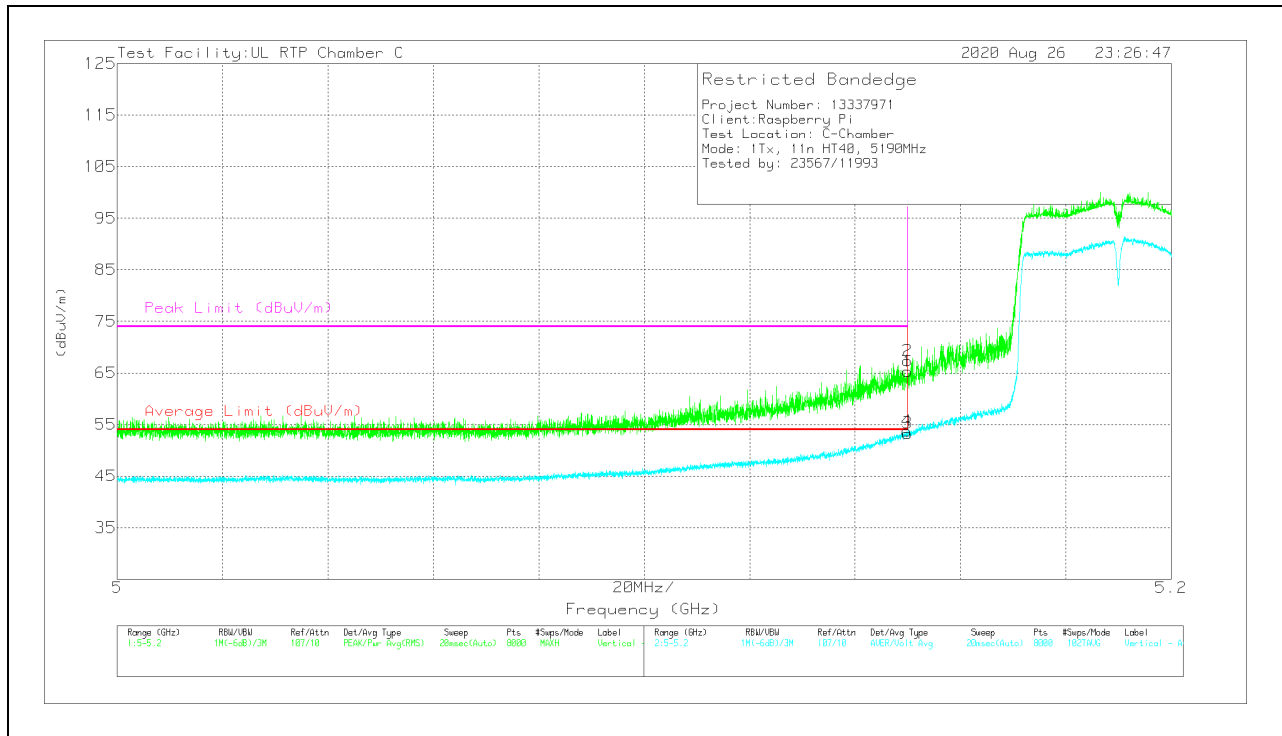
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

### VERTICAL RESULT

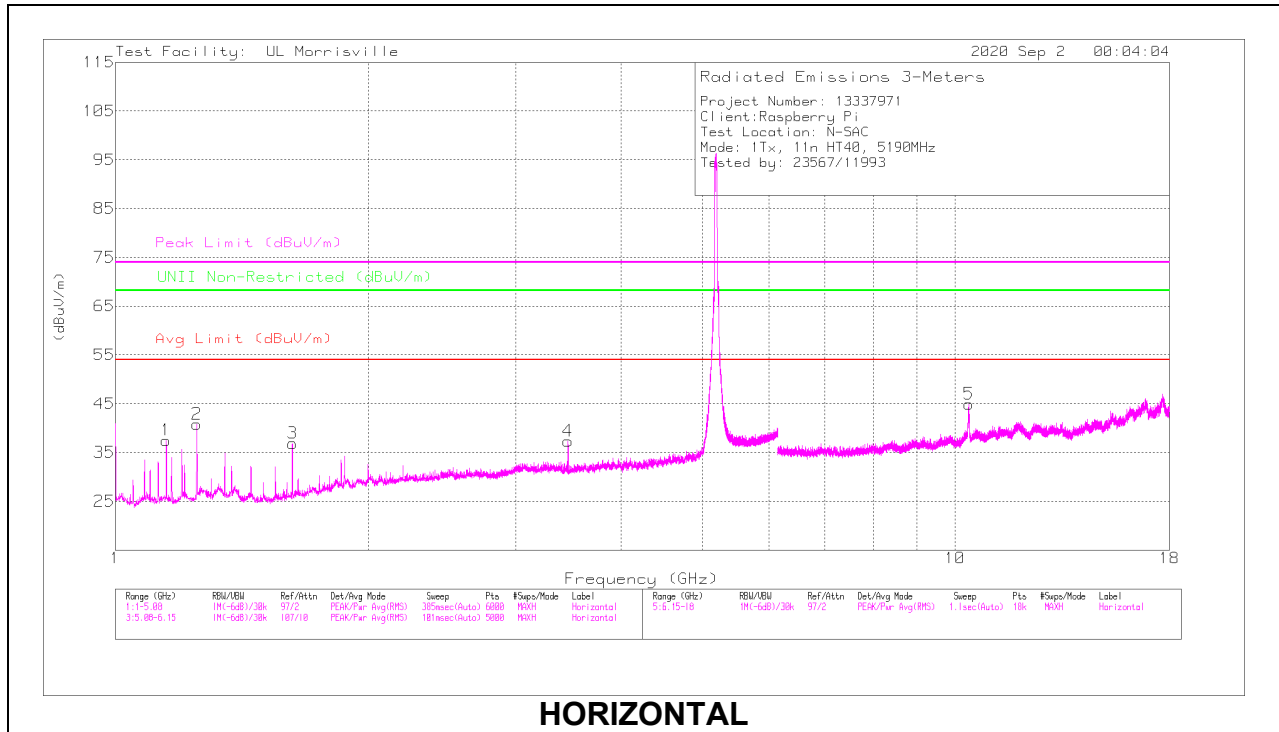


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	46.9	Pk	34.2	-15.8	0	65.3	-	-	74	-8.7	203	396	V
2	*** 5.14997	48.95	Pk	34.2	-15.8	0	67.35	-	-	74	-6.65	203	396	V
3	*** 5.14999	34.68	ADV	34.2	-15.8	.22	53.3	54	-.7	-	-	203	396	V
4	*** 5.14982	35.08	ADV	34.2	-15.8	.22	53.7	54	-.3	-	-	203	396	V

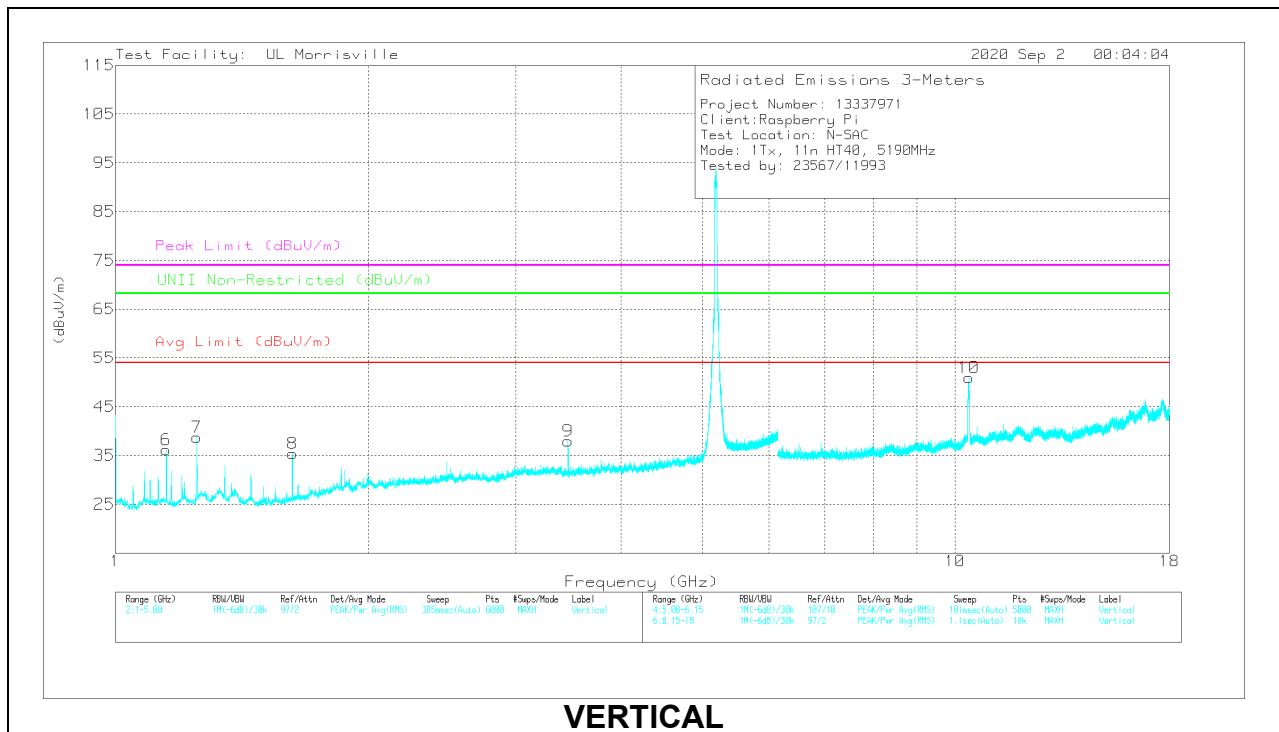
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



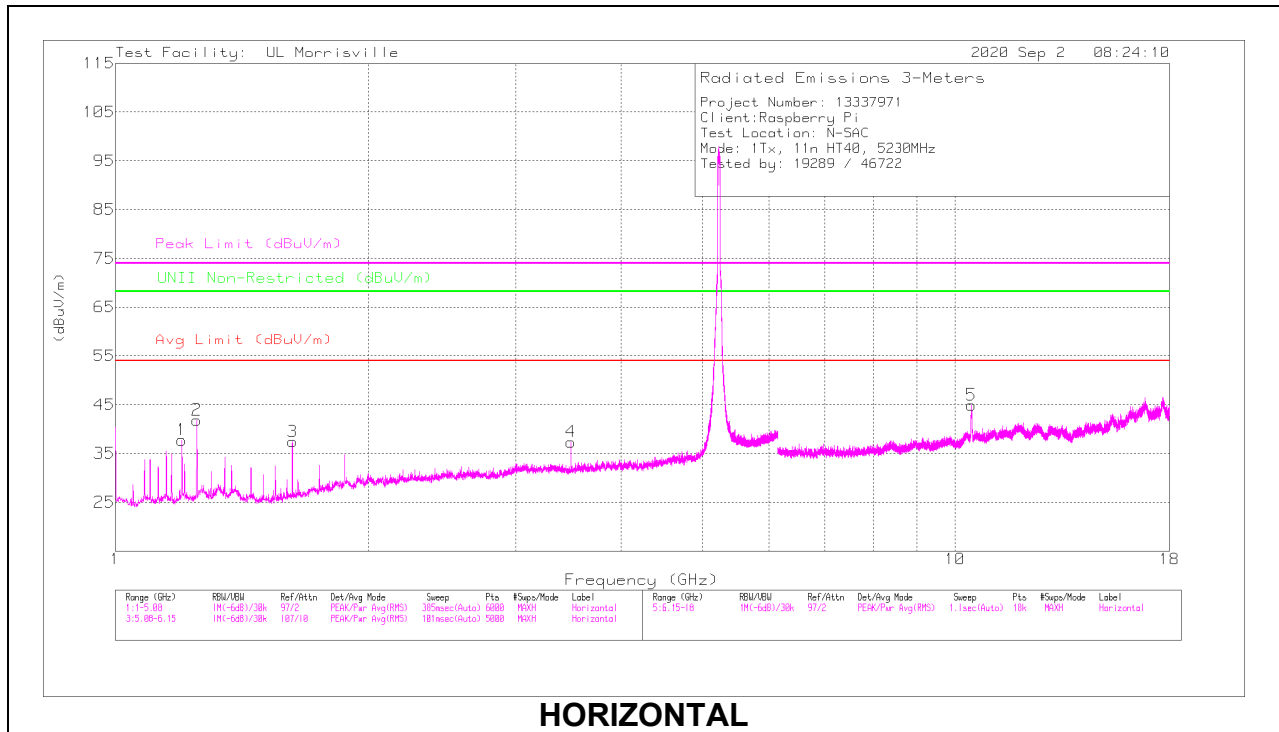
**VERTICAL**

**RADIATED EMISSIONS**

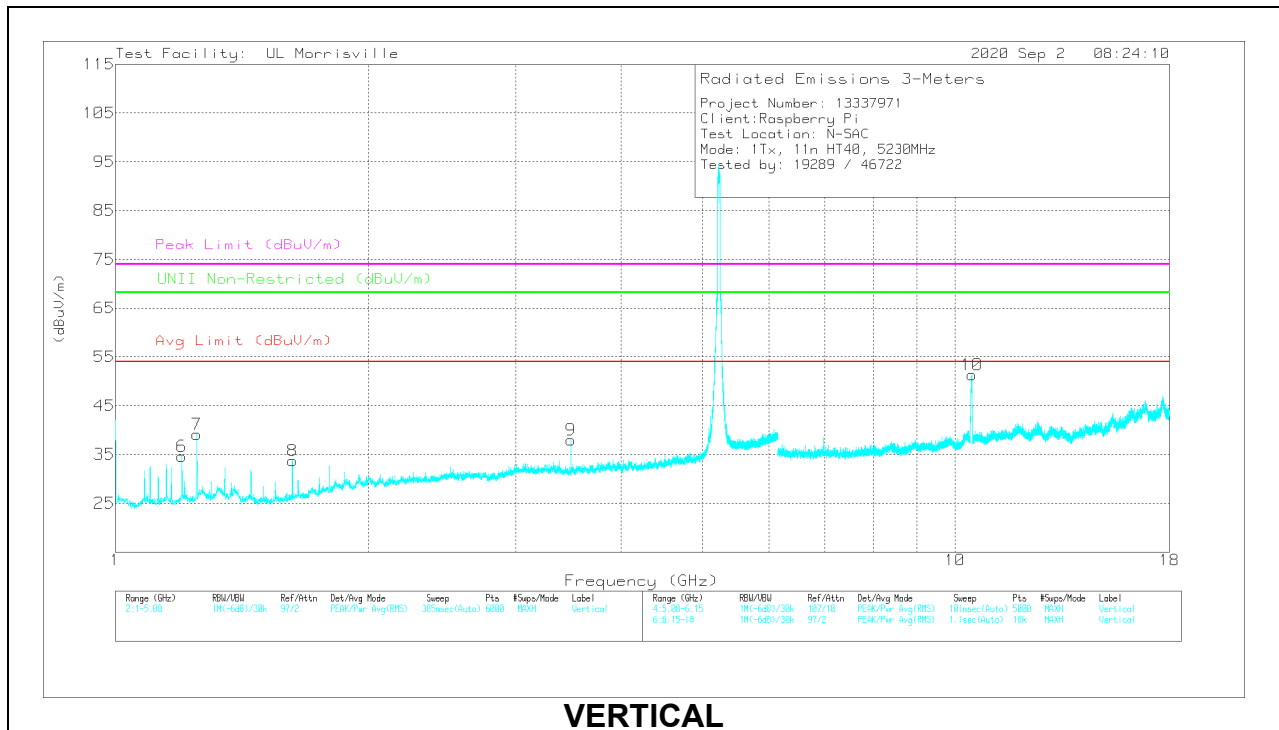
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB/(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.14998	50.97	PK-U	28.1	-37	42.07	-	-	74	-31.93	-	-	110	104	H
	* ** 1.15007	46.17	ADV	28.1	-37	37.27	54	-16.73	-	-	-	-	110	104	H
2	* 1.25026	52.52	PK-U	29.1	-36.6	45.02	-	-	74	-28.98	-	-	92	316	H
	* 1.24997	48.11	ADV	29.1	-36.6	40.61	54	-13.39	-	-	-	-	92	316	H
3	* ** 1.62478	49.02	PK-U	28.2	-35.4	41.82	-	-	74	-32.18	-	-	133	283	H
	* ** 1.62516	43.65	ADV	28.2	-35.4	36.45	54	-17.55	-	-	-	-	133	283	H
6	* ** 1.14991	50.57	PK-U	28.1	-37	41.67	-	-	74	-32.33	-	-	273	142	V
	* ** 1.14999	45.07	ADV	28.1	-37	36.17	54	-17.83	-	-	-	-	273	142	V
7	* 1.24987	50.07	PK-U	29.1	-36.6	42.57	-	-	74	-31.43	-	-	118	199	V
	* 1.25005	44.7	ADV	29.1	-36.6	37.2	54	-16.8	-	-	-	-	118	199	V
8	* ** 1.62516	48.07	PK-U	28.2	-35.4	40.87	-	-	74	-33.13	-	-	113	328	V
	* ** 1.62516	42.98	ADV	28.2	-35.4	35.78	54	-18.22	-	-	-	-	113	328	V
9	3.4599	45.22	PK-U	32.9	-33.4	44.72	-	-	-	-	68.2	-23.48	211	207	V
4	3.4601	45.11	PK-U	32.9	-33.4	44.61	-	-	-	-	68.2	-23.59	196	119	H
10	10.38004	52.98	PK-U	37.6	-26.3	64.28	-	-	-	-	68.2	-3.92	183	335	V
5	10.38555	49.35	PK-U	37.5	-26.5	60.35	-	-	-	-	68.2	-7.85	172	373	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**



**RADIATED EMISSIONS**

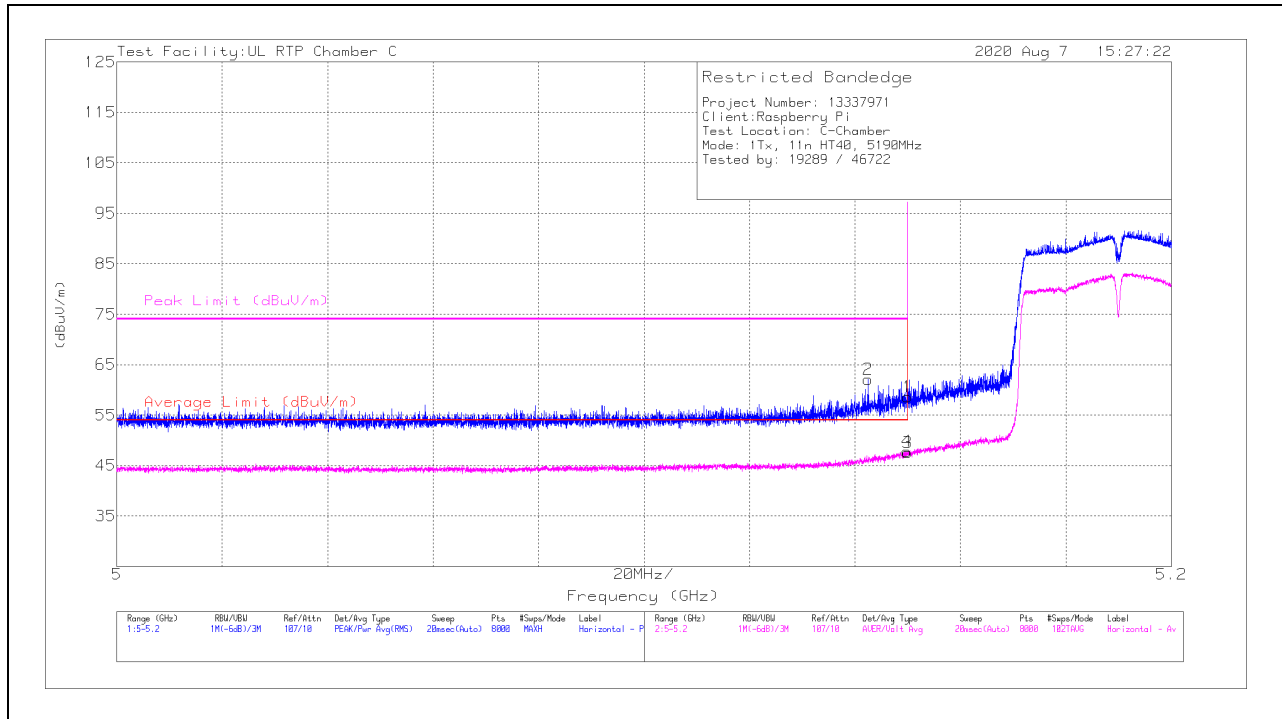
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20009	50.99	PK-U	28.7	-36.9	0	42.79	-	-	74	-31.21	-	-	119	153	H
	*** 1.20007	45.56	ADV	28.7	-36.9	.23	37.59	54	-16.41	-	-	-	-	119	153	H
2	* 1.24994	53.32	PK-U	29.1	-36.6	0	45.82	-	-	74	-28.18	-	-	128	379	H
	* 1.25002	48.69	ADV	29.1	-36.6	.23	41.42	54	-12.58	-	-	-	-	128	379	H
3	*** 1.62498	49.2	PK-U	28.2	-35.4	0	42	-	-	74	-32	-	-	33	298	H
	*** 1.62508	42.97	ADV	28.2	-35.4	.23	36	54	-18	-	-	-	-	33	298	H
6	*** 1.20028	49.87	PK-U	28.7	-36.9	0	41.67	-	-	74	-32.33	-	-	31	317	V
	*** 1.20007	43.62	ADV	28.7	-36.9	.23	35.65	54	-18.35	-	-	-	-	31	317	V
7	* 1.25009	52.5	PK-U	29.1	-36.6	0	45	-	-	74	-29	-	-	51	395	V
	* 1.25	48.06	ADV	29.1	-36.6	.23	40.79	54	-13.21	-	-	-	-	51	395	V
8	*** 1.62508	50.06	PK-U	28.2	-35.4	0	42.86	-	-	74	-31.14	-	-	100	268	V
	*** 1.62507	44.35	ADV	28.2	-35.4	.23	37.38	54	-16.62	-	-	-	-	100	268	V
9	3.48648	44.76	PK-U	33	-33.3	0	44.46	-	-	-	-	68.2	-23.74	220	210	V
4	3.48652	45.9	PK-U	33	-33.3	0	45.6	-	-	-	-	68.2	-22.6	266	295	H
10	10.46012	55.67	PK-U	37.6	-27.3	0	65.97	-	-	-	-	68.2	-2.23	222	294	V
5	10.46403	47.4	PK-U	37.6	-27.3	0	57.7	-	-	-	-	68.2	-10.5	153	293	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**1TX Antenna 2 MODE**

**BANDEDGE (LOW CHANNEL)**

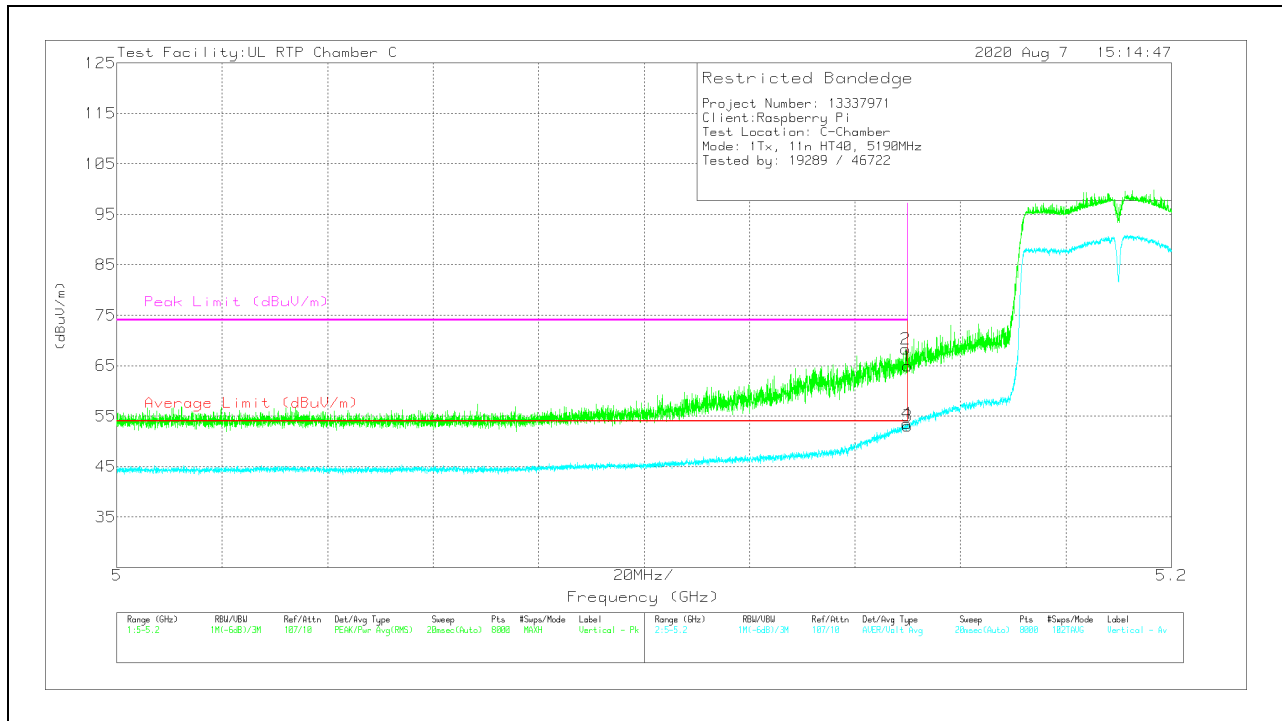
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	40.26	Pk	34.2	-15.8	0	58.66	-	-	74	-15.34	202	163	H
2	*** 5.14249	43.67	Pk	34.2	-15.8	0	62.07	-	-	74	-11.93	202	163	H
3	*** 5.14999	28.98	ADV	34.2	-15.8	.23	47.61	54	-6.39	-	-	202	163	H
4	*** 5.14987	29.14	ADV	34.2	-15.8	.23	47.77	54	-6.23	-	-	202	163	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

### VERTICAL RESULT

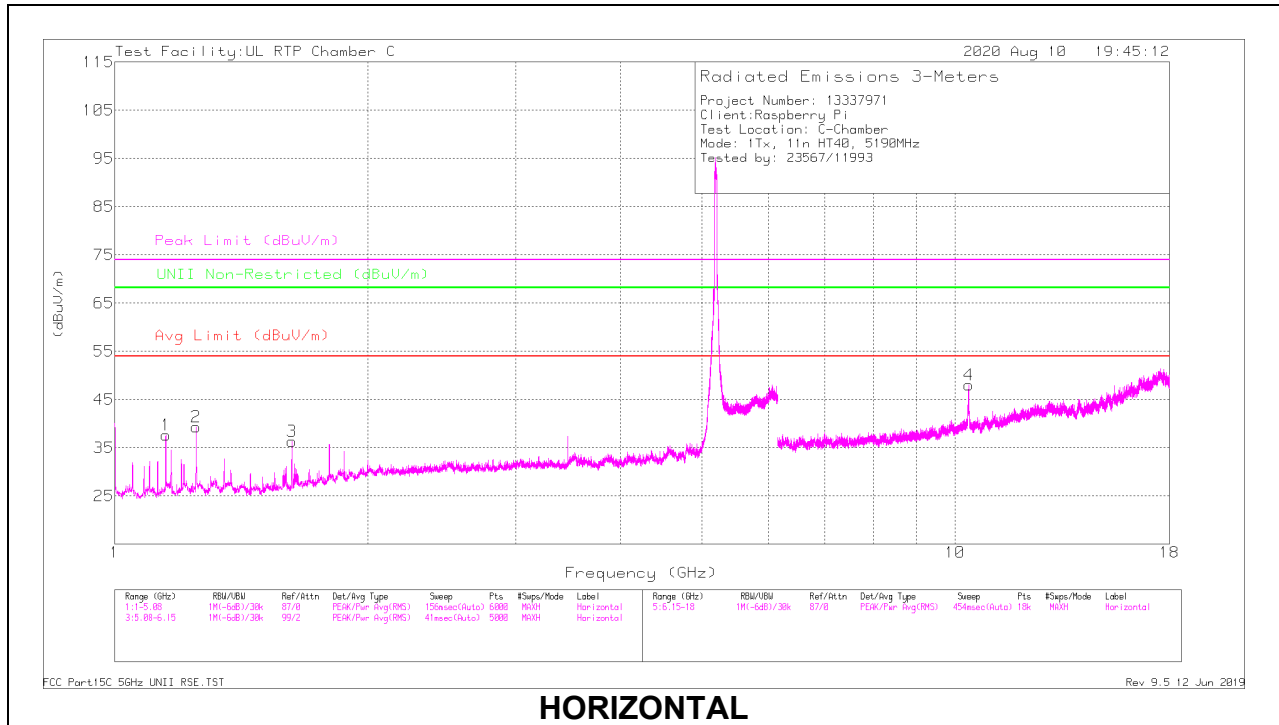


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	46.58	Pk	34.2	-15.8	0	64.98	-	-	74	-9.02	70	161	V
2	*** 5.14959	49.91	Pk	34.2	-15.8	0	68.31	-	-	74	-5.69	70	161	V
3	*** 5.14999	34.44	ADV	34.2	-15.8	.23	53.07	54	-93	-	-	70	161	V
4	*** 5.14989	34.9	ADV	34.2	-15.8	.23	53.53	54	-47	-	-	70	161	V

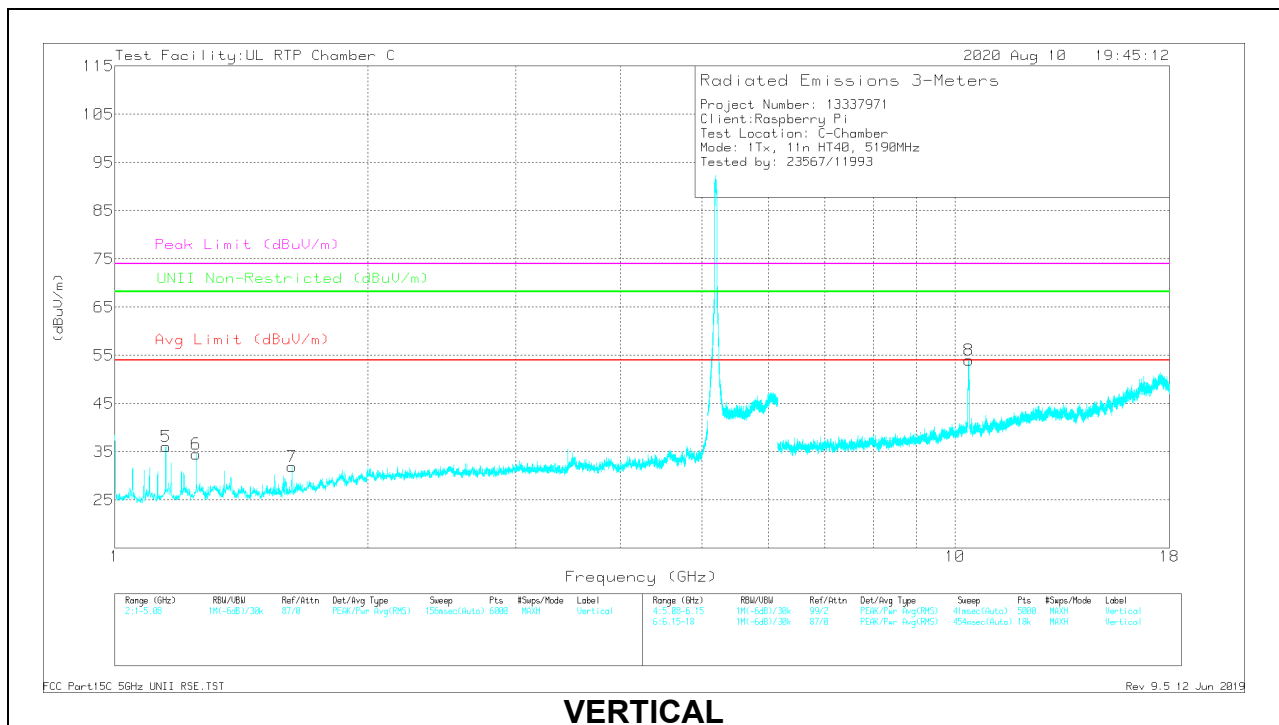
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 1.15044	68.56	PK-U	27.4	-54.9	0	41.06	-	-	74	-32.94	-	-	168	102	H
	* ** 1.15002	64.15	ADV	27.4	-54.9	.23	36.88	54	-17.12	-	-	-	-	168	102	H
2	* 1.25001	69.16	PK-U	28.6	-55.3	0	42.46	-	-	74	-31.54	-	-	90	102	H
	* 1.25002	64.47	ADV	28.6	-55.3	.23	38	54	-16	-	-	-	-	90	102	H
3	* ** 1.62525	65.73	PK-U	28.5	-54.1	0	40.13	-	-	74	-33.87	-	-	299	203	H
	* ** 1.62488	60.25	ADV	28.5	-54.1	.23	34.88	54	-19.12	-	-	-	-	299	203	H
5	* ** 1.15017	67.06	PK-U	27.4	-54.9	0	39.56	-	-	74	-34.44	-	-	330	102	V
	* ** 1.15003	62.41	ADV	27.4	-54.9	.23	35.14	54	-18.86	-	-	-	-	330	102	V
6	* 1.25022	65.06	PK-U	28.6	-55.3	0	38.36	-	-	74	-35.64	-	-	235	102	V
	* 1.25003	58.55	ADV	28.6	-55.3	.23	32.08	54	-21.92	-	-	-	-	235	102	V
7	* ** 1.62525	65.02	PK-U	28.5	-54.1	0	39.42	-	-	74	-34.58	-	-	240	285	V
	* ** 1.62488	58.77	ADV	28.5	-54.1	.23	33.4	54	-20.6	-	-	-	-	240	285	V
8	10.3802	69.04	PK-U	37.3	-43.9	0	62.44	-	-	-	-	68.2	-5.76	333	294	V
4	10.38182	61.5	PK-U	37.3	-43.9	0	54.9	-	-	-	-	68.2	-13.3	73	258	H

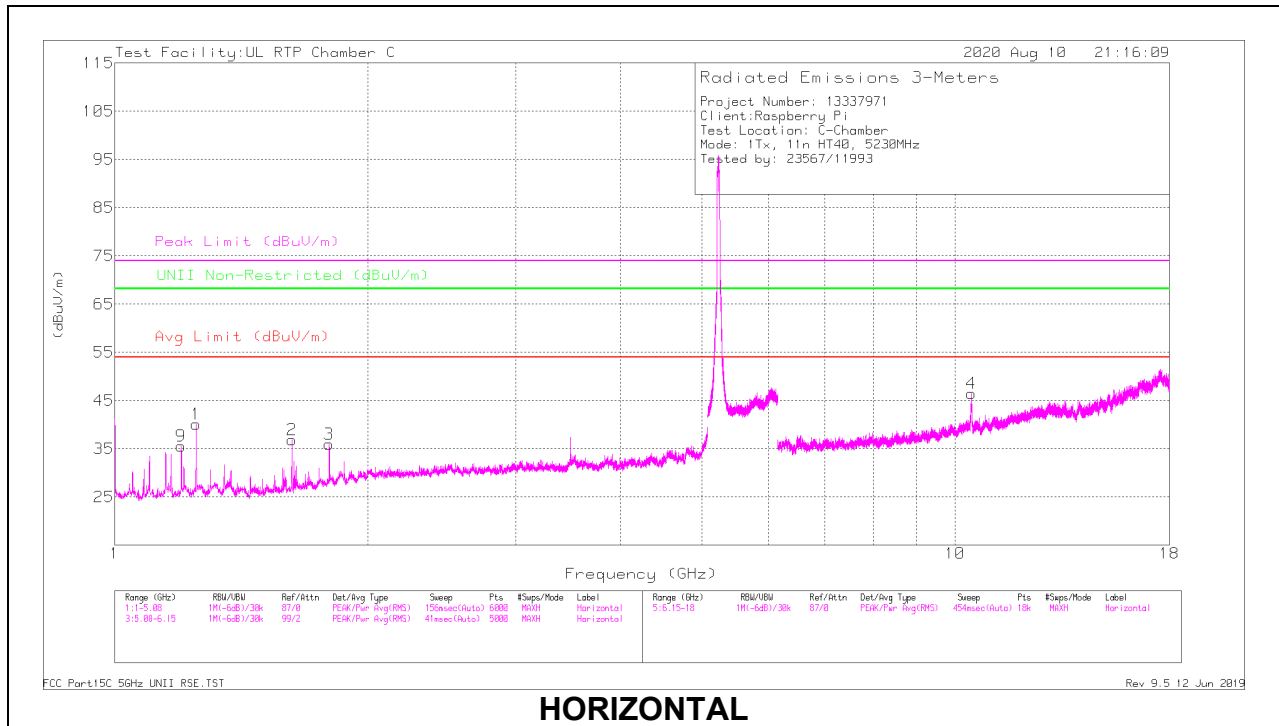
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

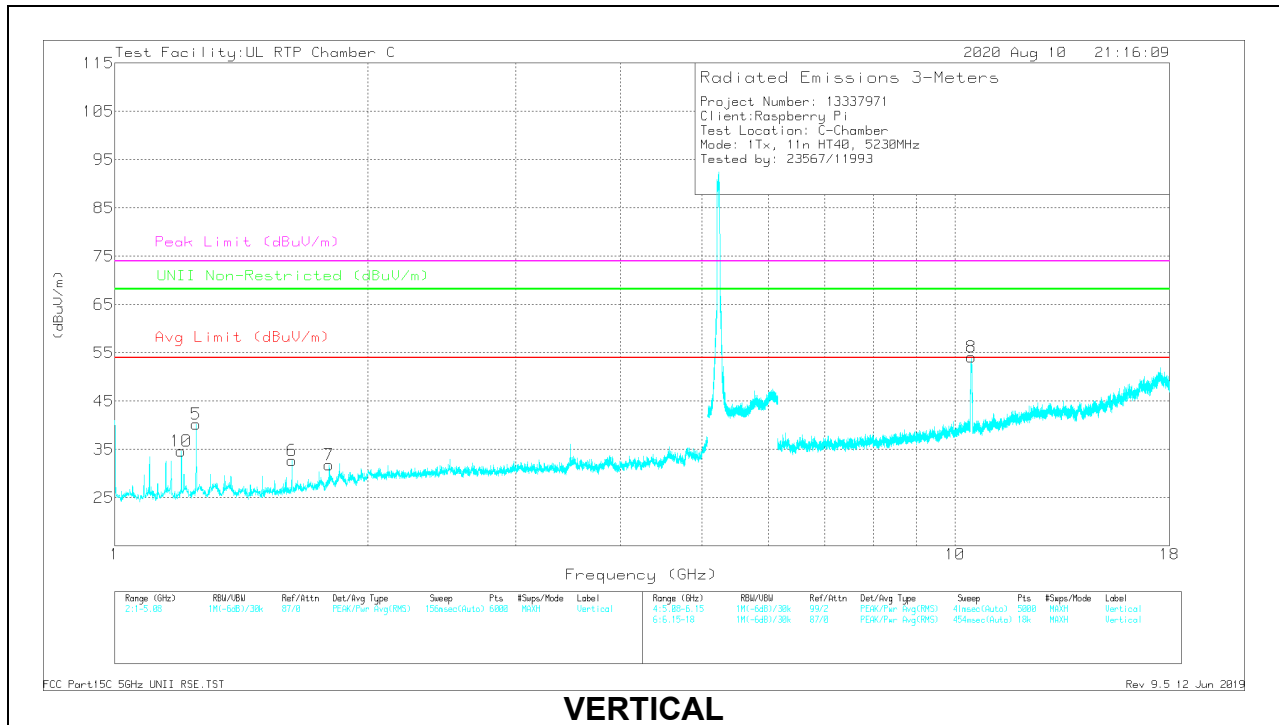
PK-U - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25021	70.33	PK-U	28.6	-55.3	0	43.63	-	-	74	-30.37	-	-	170	134	H
	* 1.25001	66.69	ADV	28.6	-55.3	.23	40.22	54	-13.78	-	-	-	-	170	134	H
2	** 1.62488	65.82	PK-U	28.5	-54.1	0	40.22	-	-	74	-33.78	-	-	291	215	H
	** 1.62488	59.77	ADV	28.5	-54.1	.23	34.4	54	-19.6	-	-	-	-	291	215	H
9	** 1.20021	65.85	PK-U	28.1	-55.2	0	38.75	-	-	74	-35.25	-	-	169	103	H
	** 1.20005	60.38	ADV	28.1	-55.2	.23	33.51	54	-20.49	-	-	-	-	169	103	H
5	* 1.24987	69.72	PK-U	28.6	-55.3	0	43.02	-	-	74	-30.98	-	-	178	102	V
	* 1.24999	65.89	ADV	28.6	-55.3	.23	39.42	54	-14.58	-	-	-	-	178	102	V
6	** 1.62488	64.31	PK-U	28.5	-54.1	0	38.71	-	-	74	-35.29	-	-	240	270	V
	** 1.62488	58.43	ADV	28.5	-54.1	.23	33.06	54	-20.94	-	-	-	-	240	270	V
10	** 1.19975	65.09	PK-U	28.1	-55.2	0	37.99	-	-	74	-36.01	-	-	0	102	V
	** 1.20003	58.74	ADV	28.1	-55.2	.23	31.87	54	-22.13	-	-	-	-	0	102	V
3	1.79978	64.75	PK-U	30.2	-54.2	0	40.75	-	-	-	-	68.2	-27.45	295	260	H
7	1.79991	61.49	PK-U	30.2	-54.2	0	37.49	-	-	-	-	68.2	-30.71	171	263	V
4	10.45492	64.46	PK-U	37.4	-42.6	0	59.26	-	-	-	-	68.2	-8.94	20	387	H
8	10.46202	68.31	PK-U	37.4	-42.7	0	63.01	-	-	-	-	68.2	-5.19	356	280	V

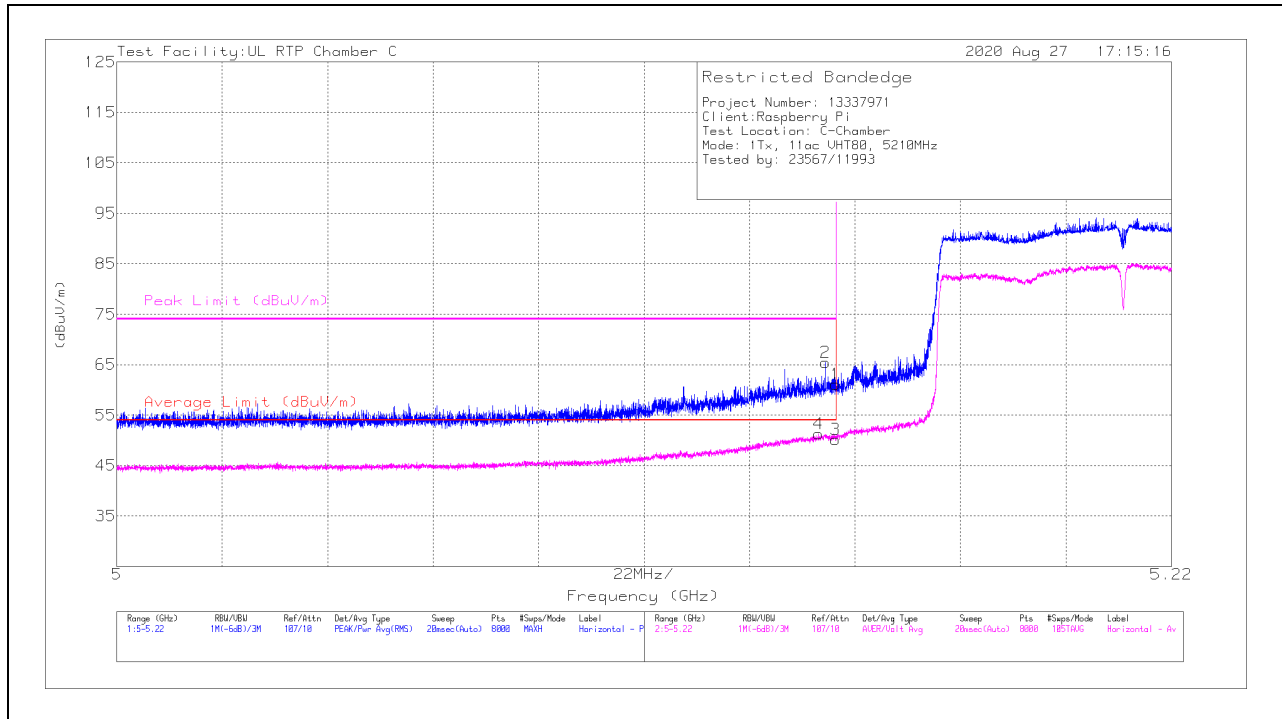
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**9.1.4. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND**

**1TX Antenna 1 MODE**

**BANDEDGE (MID CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14997	42.68	Pk	34.2	-15.8	0	61.08	-	-	74	-12.92	316	232	H
2	* ** 5.1478	47.01	Pk	34.2	-15.8	0	65.41	-	-	74	-8.59	316	232	H
3	* ** 5.14997	31.38	ADV	34.2	-15.8	.42	50.2	54	-3.8	-	-	316	232	H
4	* ** 5.14643	32.52	ADV	34.2	-15.8	.42	51.34	54	-2.66	-	-	316	232	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

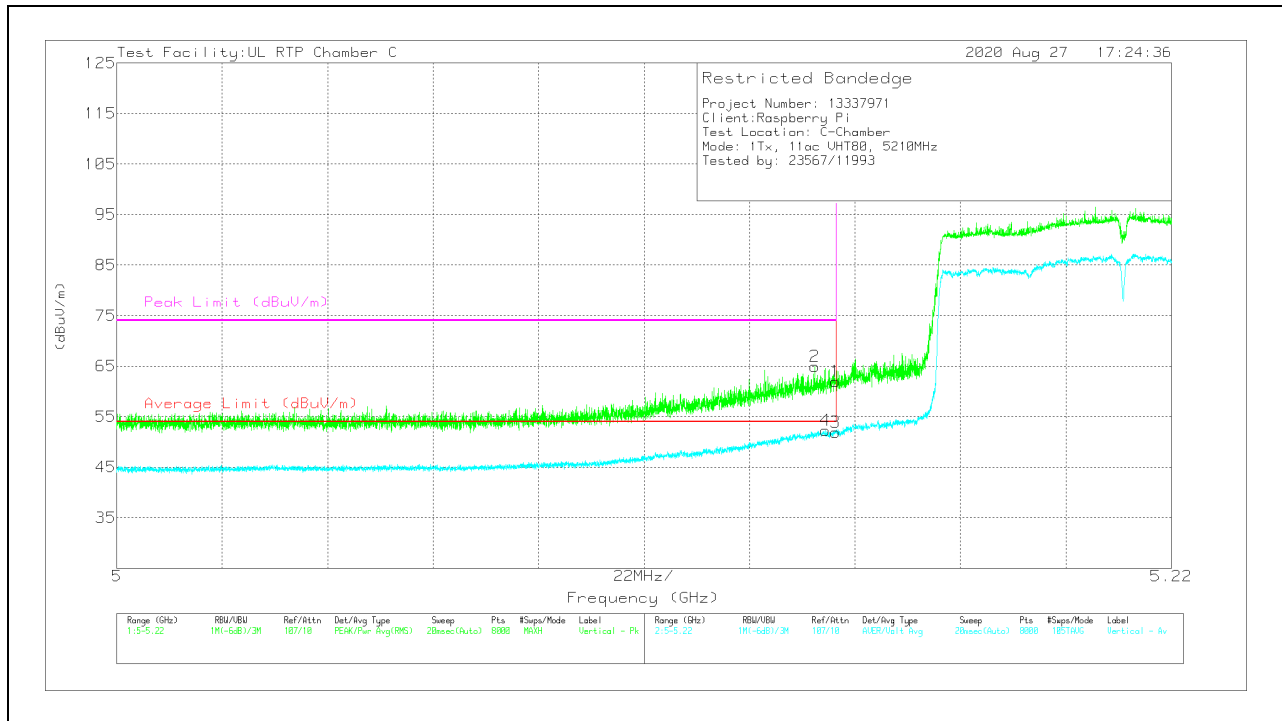
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average



### VERTICAL RESULT

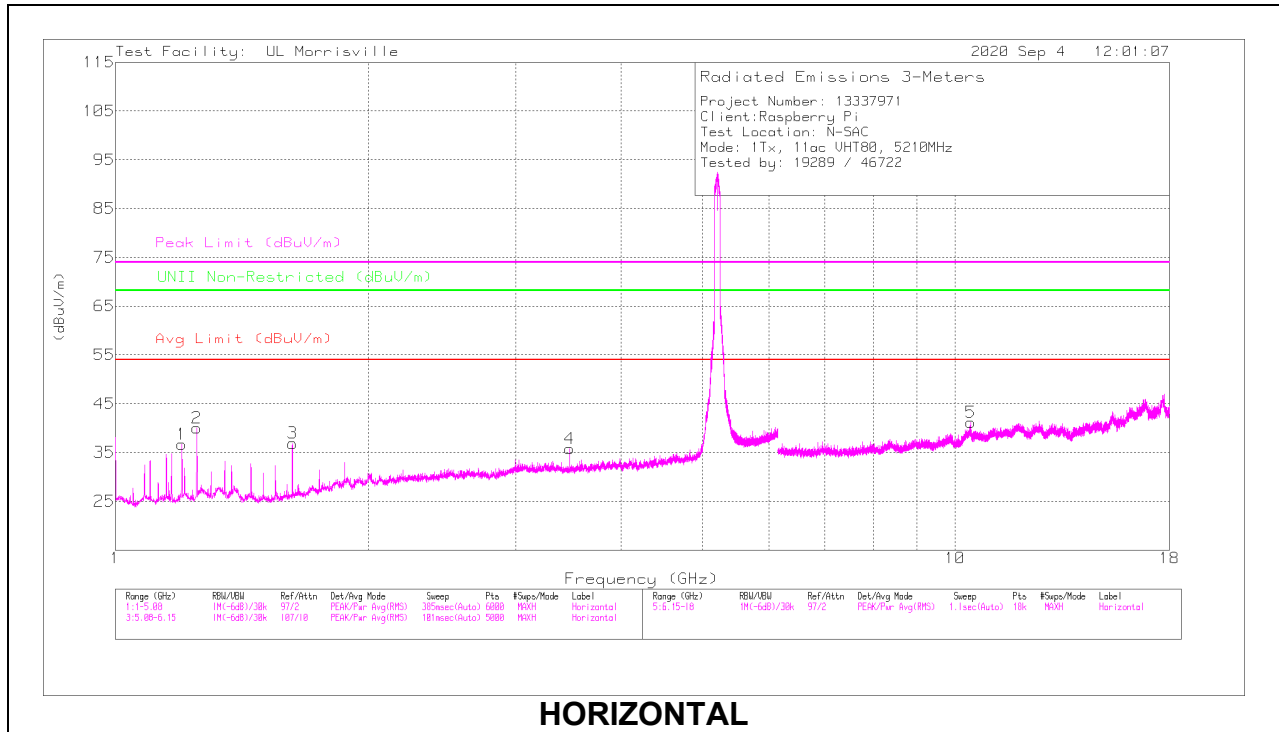


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14997	43.58	Pk	34.2	-15.8	0	61.98	-	-	74	-12.02	191	238	V
2	*** 5.14557	46.5	Pk	34.2	-15.8	0	64.9	-	-	74	-9.1	191	238	V
3	*** 5.14997	33.04	ADV	34.2	-15.8	.42	51.86	54	-2.14	-	-	191	238	V
4	*** 5.14783	33.47	ADV	34.2	-15.8	.42	52.29	54	-1.71	-	-	191	238	V

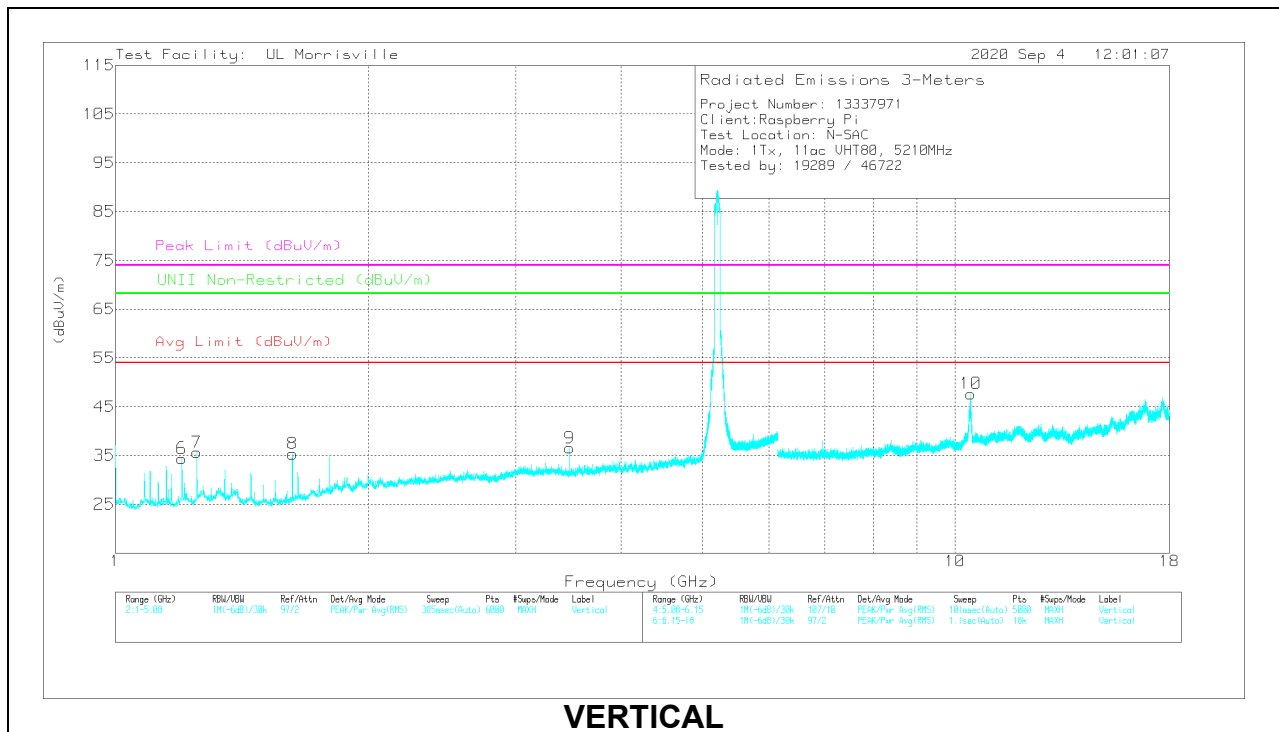
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

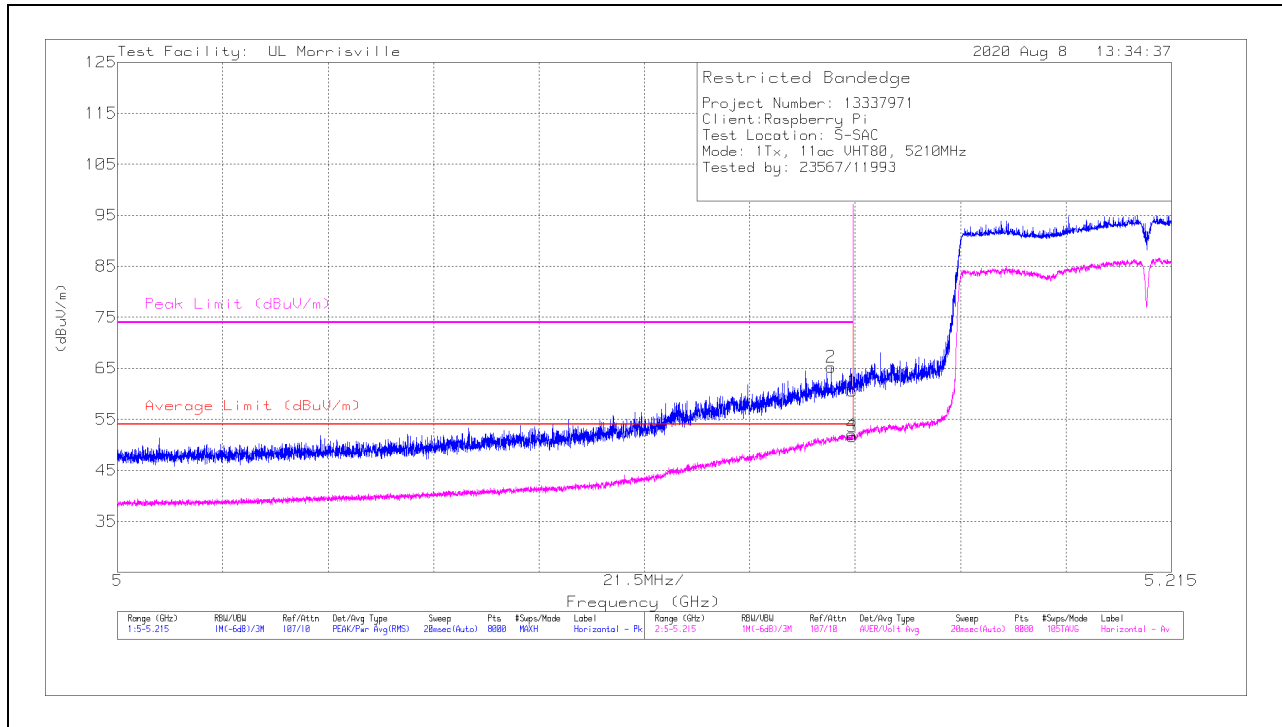
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20007	50.84	PK-U	28.7	-36.9	0	42.64	-	-	74	-31.36	-	-	114	107	H
	*** 1.20003	45.06	ADV	28.7	-36.9	.42	37.28	54	-16.72	-	-	-	-	114	107	H
2	* 1.25032	51.82	PK-U	29.1	-36.6	0	44.32	-	-	74	-29.68	-	-	127	396	H
	* 1.24999	46.65	ADV	29.1	-36.6	.42	39.57	54	-14.43	-	-	-	-	127	396	H
3	*** 1.62505	50.11	PK-U	28.2	-35.4	0	42.91	-	-	74	-31.09	-	-	138	269	H
	*** 1.62497	43.25	ADV	28.2	-35.4	.42	36.47	54	-17.53	-	-	-	-	138	269	H
6	*** 1.19995	49.41	PK-U	28.7	-36.9	0	41.21	-	-	74	-32.79	-	-	274	136	V
	*** 1.19995	42.37	ADV	28.7	-36.9	.42	34.59	54	-19.41	-	-	-	-	274	136	V
7	* 1.25012	49.49	PK-U	29.1	-36.6	0	41.99	-	-	74	-32.01	-	-	289	176	V
	* 1.25009	43.1	ADV	29.1	-36.6	.42	36.02	54	-17.98	-	-	-	-	289	176	V
8	*** 1.62507	49.91	PK-U	28.2	-35.4	0	42.71	-	-	74	-31.29	-	-	112	312	V
	*** 1.625	43.73	ADV	28.2	-35.4	.42	36.95	54	-17.05	-	-	-	-	112	312	V
4	3.47308	45.42	PK-U	32.9	-33.4	0	44.92	-	-	-	-	68.2	-23.28	265	293	H
9	3.47339	44.99	PK-U	32.9	-33.4	0	44.49	-	-	-	-	68.2	-23.71	208	278	V
5	10.43897	44.17	PK-U	37.6	-27.2	0	54.57	-	-	-	-	68.2	-13.63	159	345	H
10	10.4393	47	PK-U	37.6	-27.2	0	57.4	-	-	-	-	68.2	-10.8	180	338	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**1TX Antenna 2 MODE**

**BANDEDGE (MID CHANNEL)**

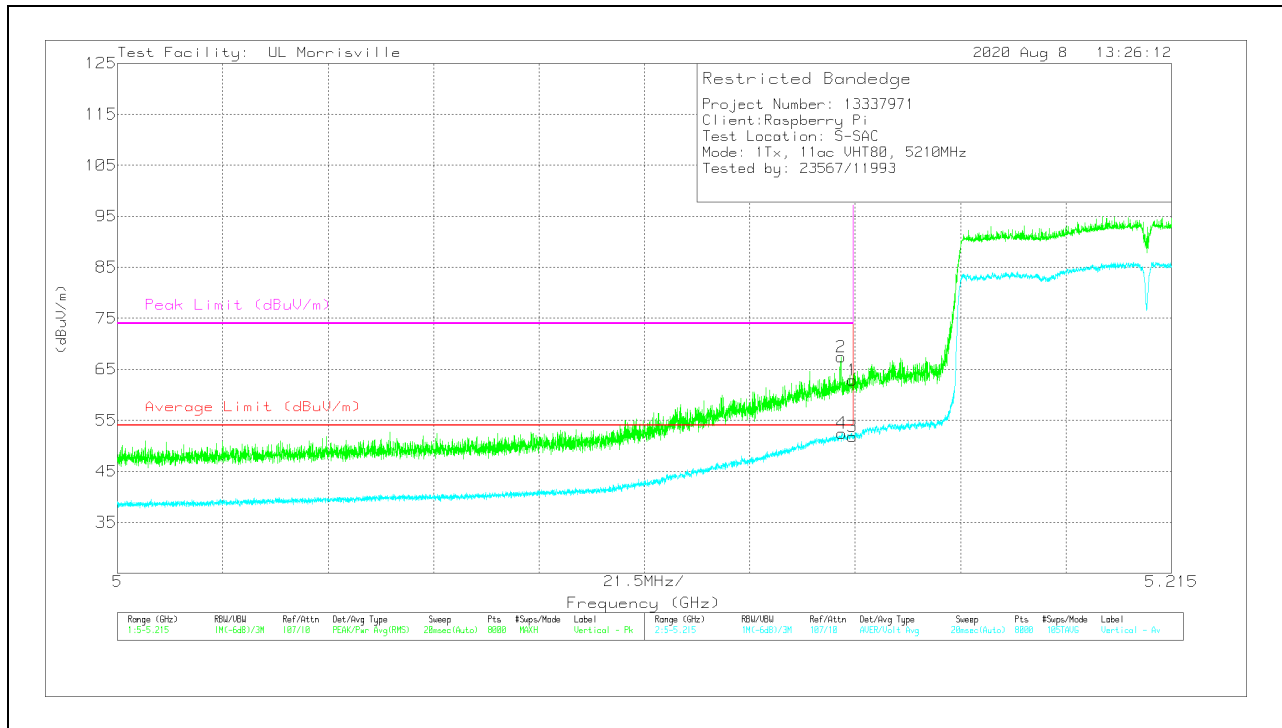
**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14998	48.82	Pk	34.2	-22.4	0	60.62	-	-	74	-13.38	184	151	H
2	*** 5.1456	53.56	Pk	34.1	-22.4	0	65.26	-	-	74	-8.74	184	151	H
3	*** 5.14998	39.34	ADV	34.2	-22.4	.42	51.56	54	-2.44	-	-	184	151	H
4	*** 5.14976	39.85	ADV	34.2	-22.4	.42	52.07	54	-1.93	-	-	184	151	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

### VERTICAL RESULT

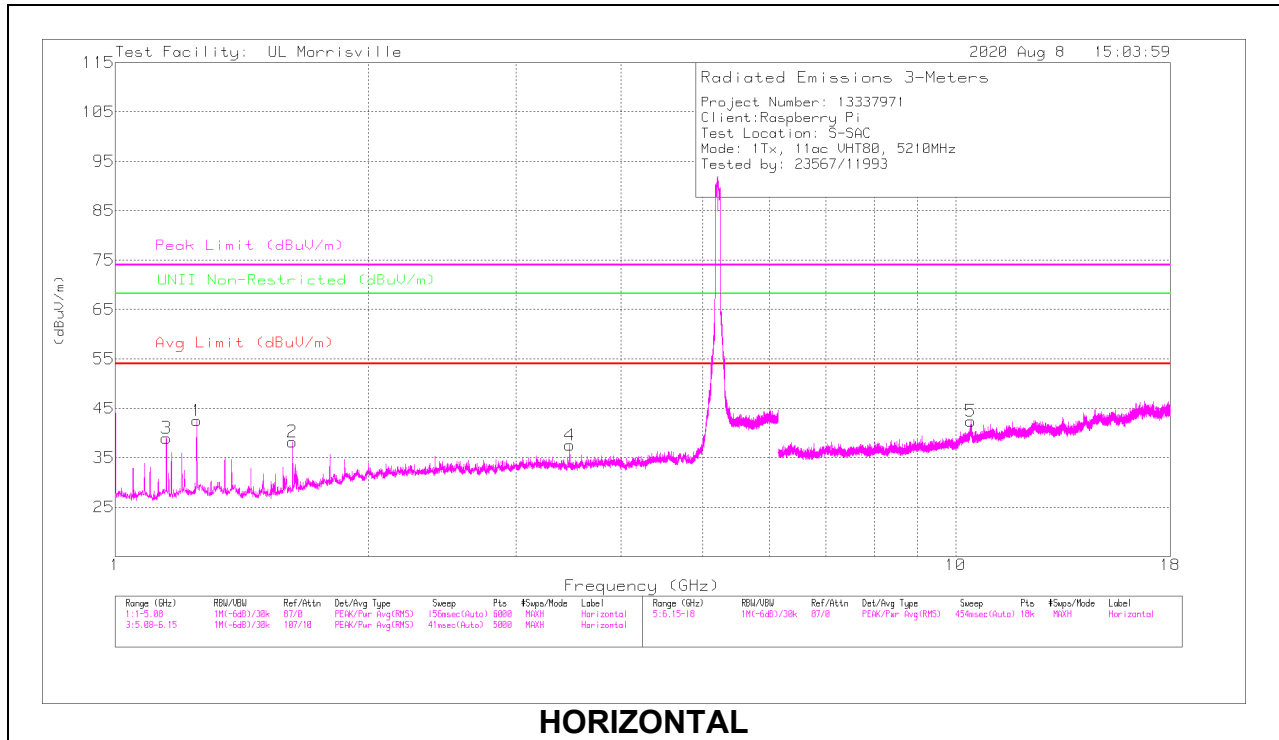


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14998	51.07	Pk	34.2	-22.4	0	62.87	-	-	74	-11.13	226	340	V
2	*** 5.14759	55.61	Pk	34.2	-22.4	0	67.41	-	-	74	-6.59	226	340	V
3	*** 5.14998	39.61	ADV	34.2	-22.4	.42	51.83	54	-2.17	-	-	226	340	V
4	*** 5.1478	40.26	ADV	34.2	-22.4	.42	52.48	54	-1.52	-	-	226	340	V

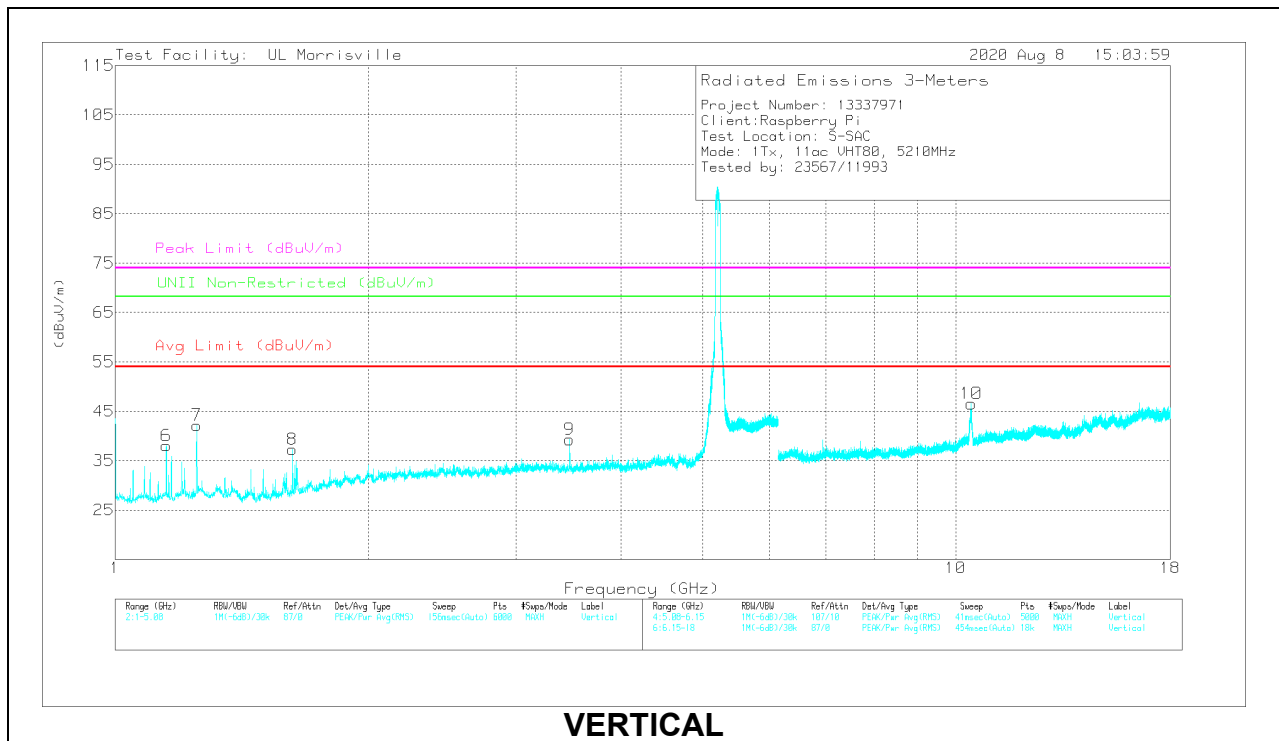
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**MID CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 (dB/m)	Amp/Cbl/iltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.24995	51.78	PK-U	29.2	-35.1	0	45.88	-	-	74	-28.12	-	-	232	190	H
	* 1.24999	48.19	ADV	29.2	-35.1	.42	42.71	54	-11.29	-	-	-	-	232	190	H
2	*** 1.62488	47.81	PK-U	28.5	-34.4	0	41.91	-	-	74	-32.09	-	-	235	190	H
	*** 1.62488	41.73	ADV	28.5	-34.4	.42	36.25	54	-17.75	-	-	-	-	235	190	H
3	*** 1.15024	49.55	PK-U	28.4	-35.3	0	42.65	-	-	74	-31.35	-	-	17	104	H
	*** 1.15003	45.05	ADV	28.4	-35.3	.42	38.57	54	-15.43	-	-	-	-	17	104	H
4	*** 1.14992	49.41	PK-U	28.4	-35.3	0	42.51	-	-	74	-31.49	-	-	343	108	V
	*** 1.14999	44.45	ADV	28.4	-35.3	.42	37.97	54	-16.03	-	-	-	-	343	108	V
7	* 1.25004	51.32	PK-U	29.2	-35.1	0	45.42	-	-	74	-28.58	-	-	74	209	V
	* 1.25002	47.17	ADV	29.2	-35.1	.42	41.69	54	-12.31	-	-	-	-	74	209	V
8	*** 1.6245	47.53	PK-U	28.5	-34.4	0	41.63	-	-	74	-32.37	-	-	200	234	V
	*** 1.62488	41.35	ADV	28.5	-34.4	.42	35.87	54	-18.13	-	-	-	-	200	234	V
4	3.47318	43.97	PK-U	32.8	-33.1	0	43.67	-	-	-	-	68.2	-24.53	88	116	H
9	3.47342	43.89	PK-U	32.8	-33.1	0	43.59	-	-	-	-	68.2	-24.61	226	203	V
5	10.42072	39.22	PK-U	37.6	-25.6	0	51.22	-	-	-	-	68.2	-16.98	141	103	H
10	10.4341	42.64	PK-U	37.7	-25.6	0	54.74	-	-	-	-	68.2	-13.46	254	353	V

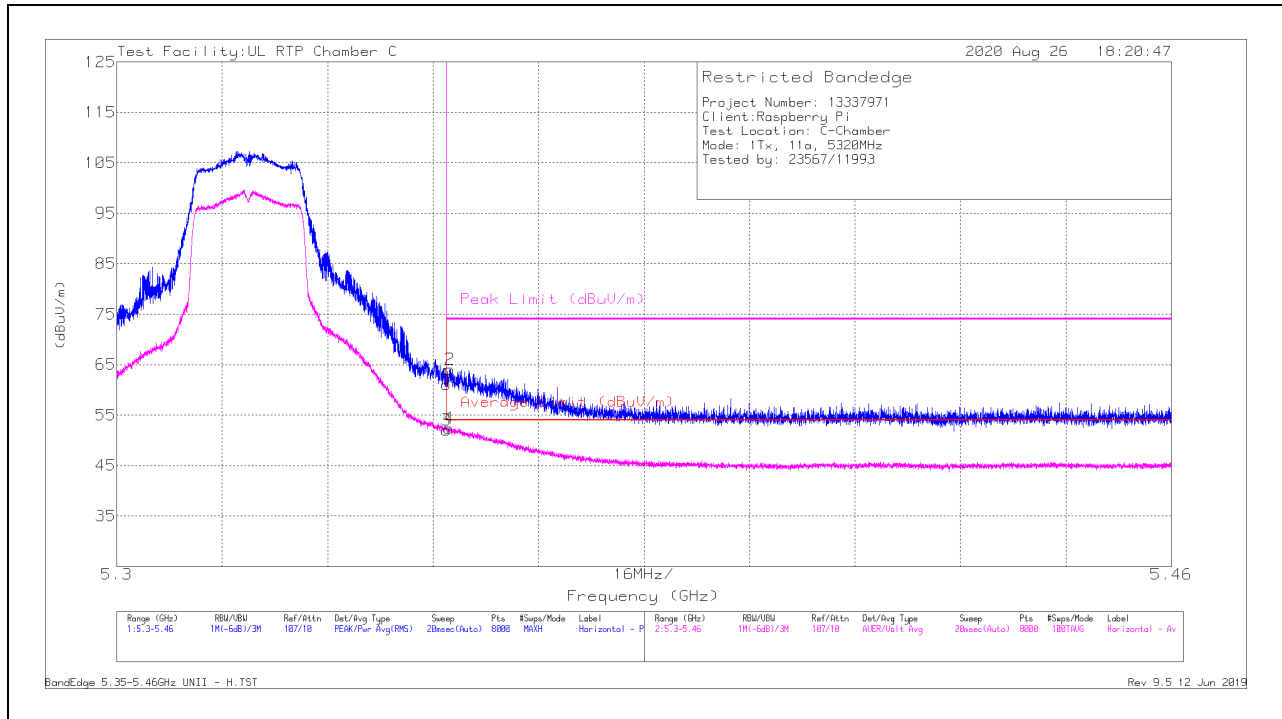
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**9.1.5. TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND**

**1TX Antenna 1 MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	41.93	Pk	34.6	-15.4	61.13	-	-	74	-12.87	160	126	H
2	* ** 5.35057	44.9	Pk	34.6	-15.4	64.1	-	-	74	-9.9	160	126	H
3	* ** 5.35001	32.82	ADV	34.6	-15.4	52.02	54	-1.98	-	-	160	126	H
4	* ** 5.35037	33.24	ADV	34.6	-15.4	52.44	54	-1.56	-	-	160	126	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

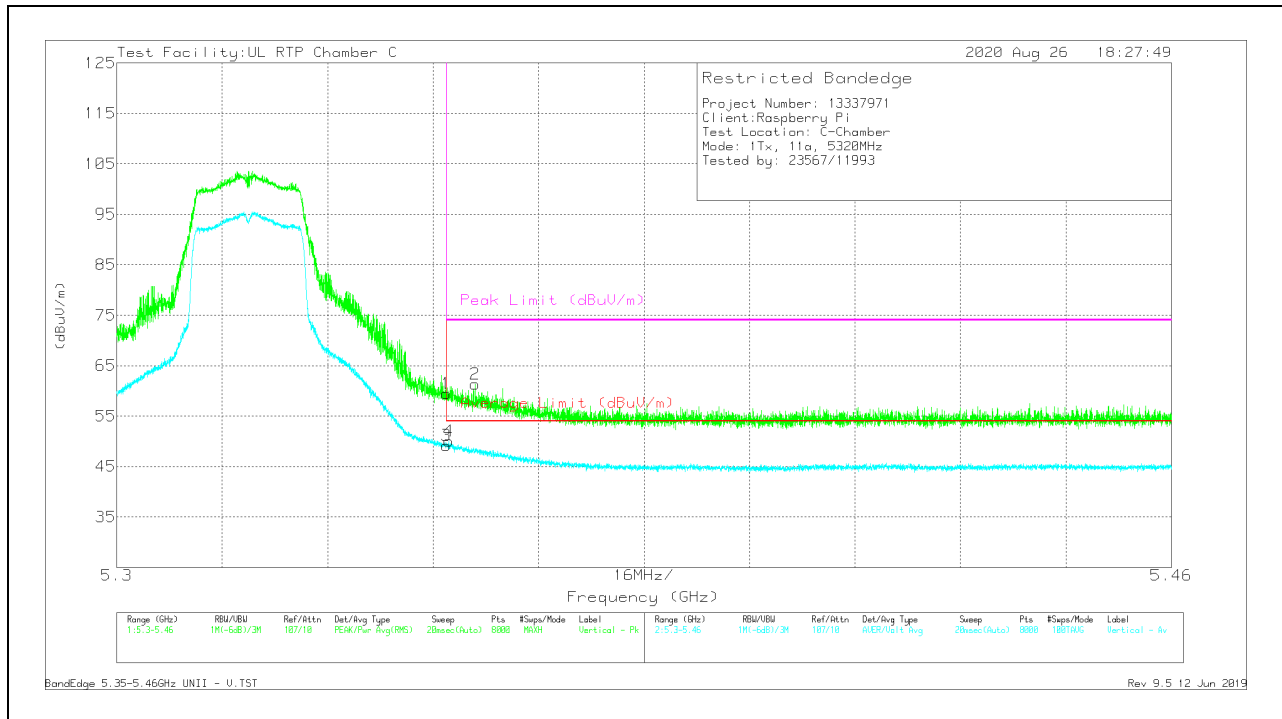
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average



### VERTICAL RESULT

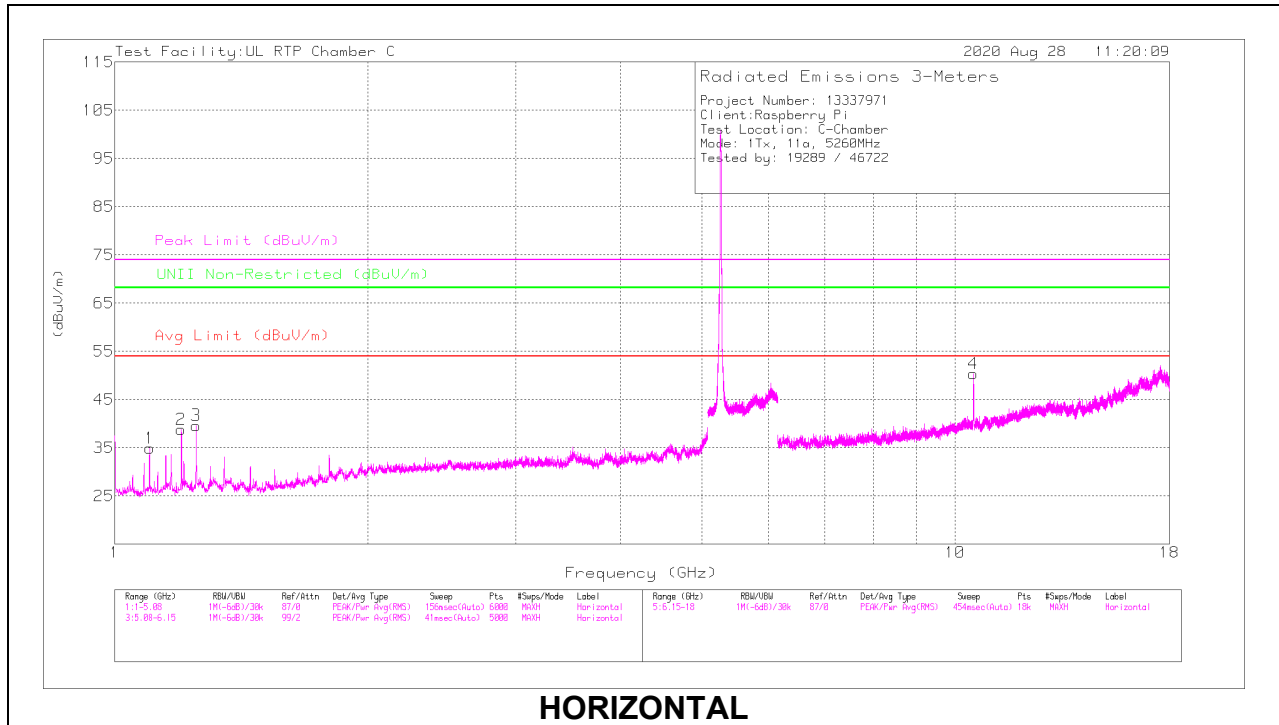


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	40.23	Pk	34.6	-15.4	59.43	-	-	74	-14.57	340	252	V
2	* ** 5.35435	42.14	Pk	34.6	-15.4	61.34	-	-	74	-12.66	340	252	V
3	* ** 5.35001	30.03	ADV	34.6	-15.4	49.23	54	-4.77	-	-	340	252	V
4	* ** 5.35035	30.84	ADV	34.6	-15.4	50.04	54	-3.96	-	-	340	252	V

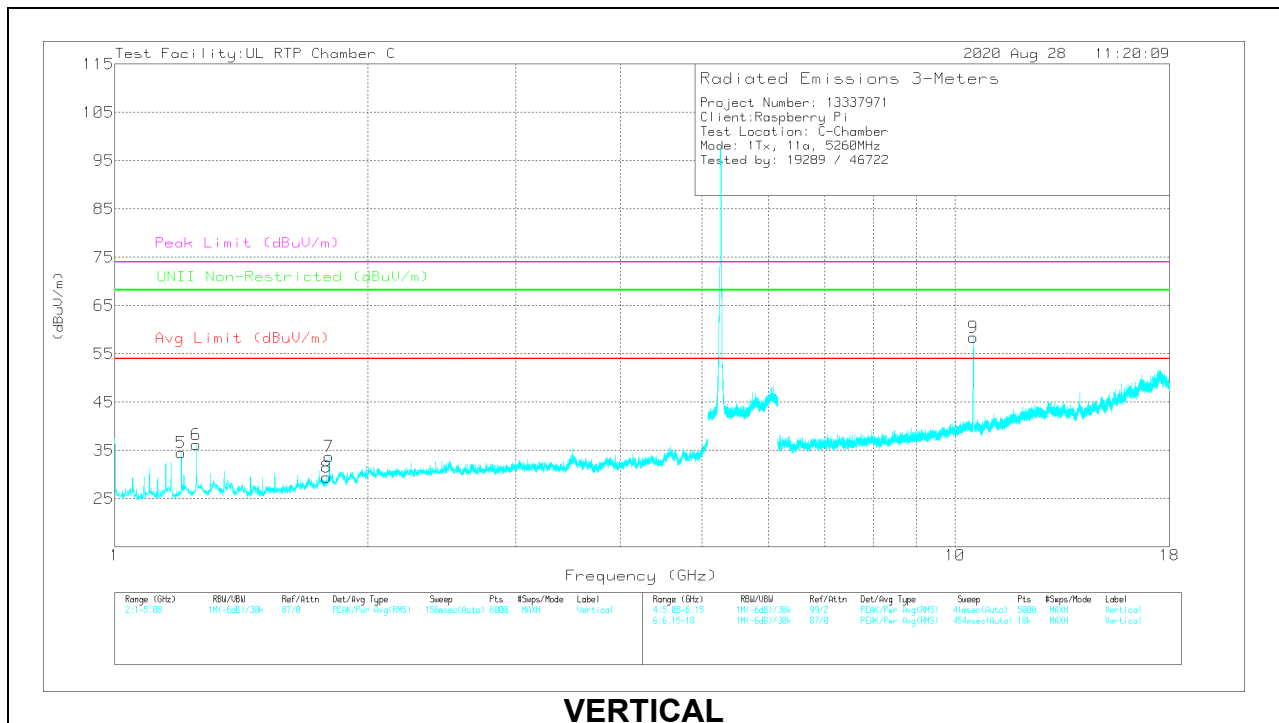
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 Pk - Peak detector  
 ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.0999	68.16	PK-U	27.3	-55.3	40.16	-	-	74	-33.84	-	-	17	221	H
	*** 1.10002	62.06	ADV	27.3	-55.3	34.06	54	-19.94	-	-	-	-	17	221	H
2	*** 1.19993	69.81	PK-U	28.1	-55.2	42.71	-	-	74	-31.29	-	-	186	200	H
	*** 1.20006	64.98	ADV	28.1	-55.2	37.88	54	-16.12	-	-	-	-	186	200	H
3	* 1.24998	70.92	PK-U	28.6	-55.3	44.22	-	-	74	-29.78	-	-	176	222	H
	* 1.25004	66.56	ADV	28.6	-55.3	39.86	54	-14.14	-	-	-	-	176	222	H
5	*** 1.20011	68.34	PK-U	28.1	-55.2	41.24	-	-	74	-32.76	-	-	62	399	V
	*** 1.20005	61.86	ADV	28.1	-55.2	34.76	54	-19.24	-	-	-	-	62	399	V
6	* 1.25003	68.49	PK-U	28.6	-55.3	41.79	-	-	74	-32.21	-	-	70	399	V
	* 1.25006	61.75	ADV	28.6	-55.3	35.05	54	-18.95	-	-	-	-	70	399	V
8	1.78625	60.72	PK-U	30.1	-54.2	36.62	-	-	-	-	68.2	-31.58	357	398	V
7	1.80004	64.23	PK-U	30.2	-54.2	40.23	-	-	-	-	68.2	-27.97	114	379	V
9	10.51875	72.19	PK-U	37.4	-43.5	66.09	-	-	-	-	68.2	-2.11	224	396	V
4	10.51877	70.15	PK-U	37.4	-43.5	64.05	-	-	-	-	68.2	-4.15	293	397	H

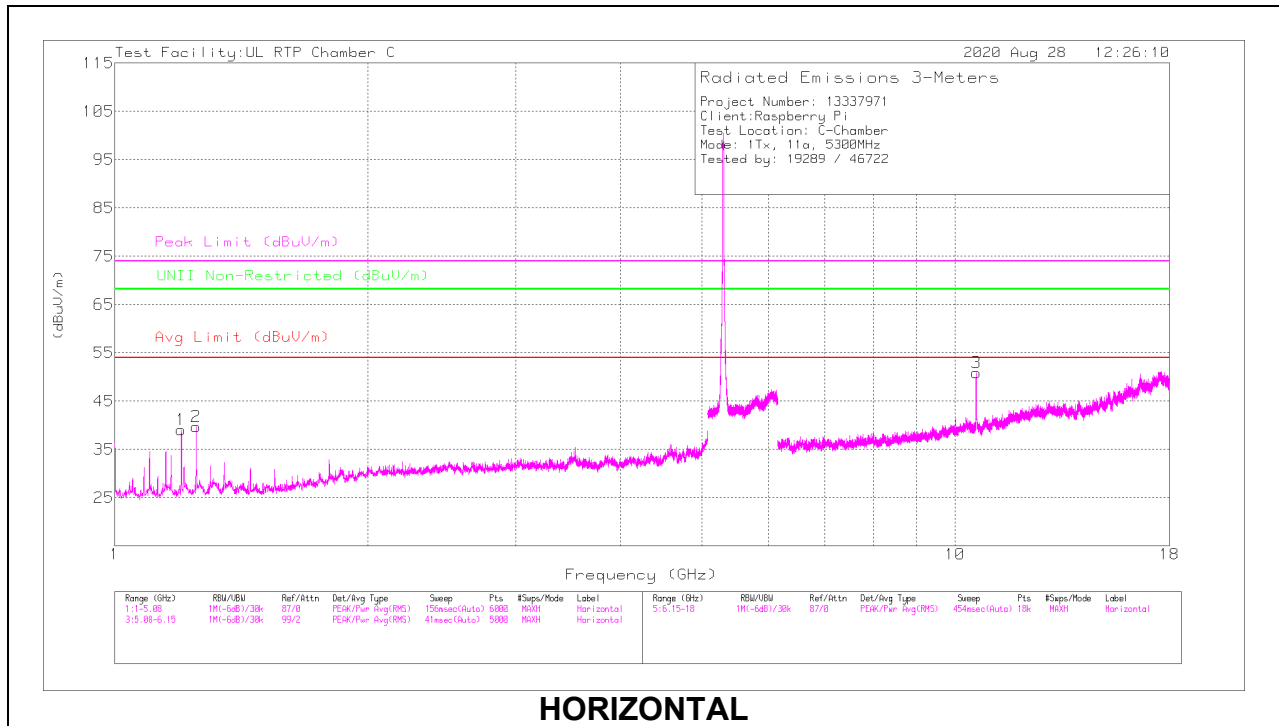
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

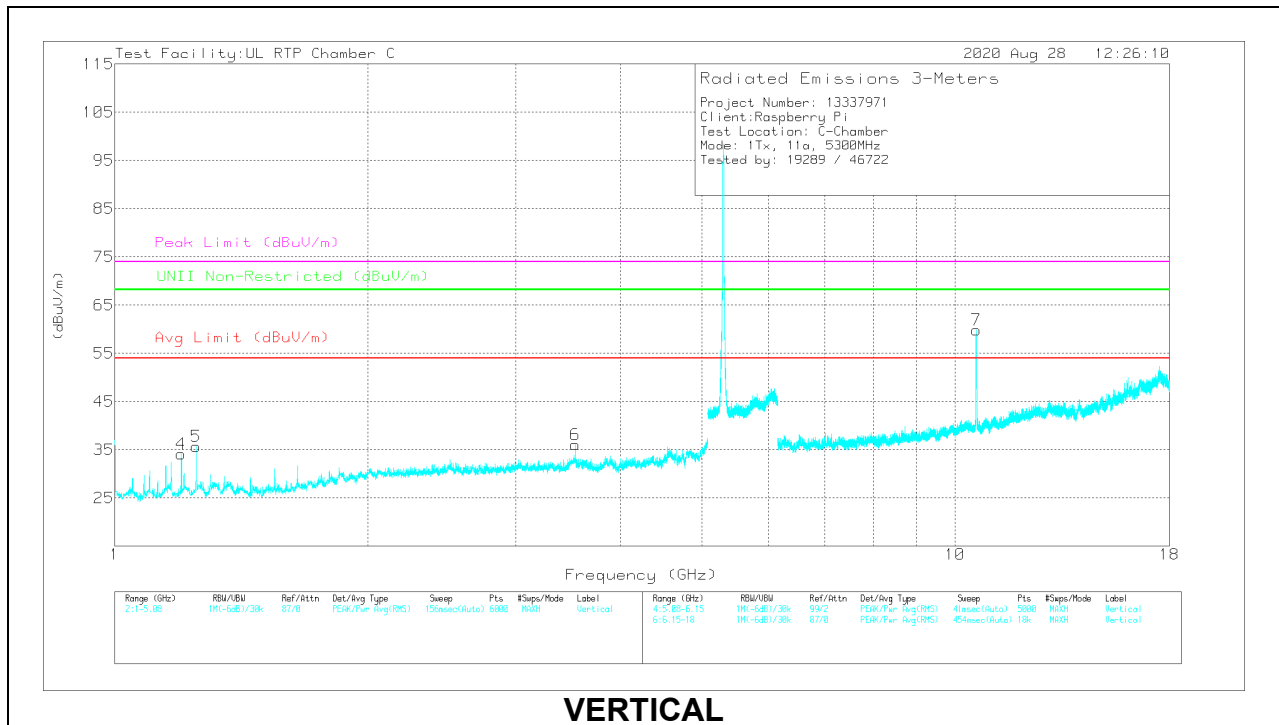
PK-U - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL RESULTS



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20001	68.66	PK-U	28.1	-55.2	41.56	-	-	74	-32.44	-	-	170	144	H
	*** 1.20004	63.76	ADV	28.1	-55.2	36.66	54	-17.34	-	-	-	-	170	144	H
2	* 1.24982	70.64	PK-U	28.6	-55.3	43.94	-	-	74	-30.06	-	-	177	220	H
	* 1.25008	66.29	ADV	28.6	-55.3	39.59	54	-14.41	-	-	-	-	177	220	H
4	*** 1.20041	67.89	PK-U	28.1	-55.2	40.79	-	-	74	-33.21	-	-	61	281	V
	*** 1.20005	62.16	ADV	28.1	-55.2	35.06	54	-18.94	-	-	-	-	61	281	V
5	* 1.25005	68.25	PK-U	28.6	-55.3	41.55	-	-	74	-32.45	-	-	63	309	V
	* 1.25004	62.39	ADV	28.6	-55.3	35.69	54	-18.31	-	-	-	-	63	309	V
6	*** 3.53314	59.37	PK-U	33.5	-49.6	43.27	-	-	74	-30.73	-	-	353	398	V
	*** 3.53327	49.47	ADV	33.5	-49.6	33.37	54	-20.63	-	-	-	-	353	398	V
3	*** 10.60087	72.13	PK-U	37.5	-43.8	65.83	-	-	74	-8.17	-	-	289	397	H
	*** 10.60009	59.5	ADV	37.5	-43.7	53.3	54	-.7	-	-	-	-	289	397	H
7	10.59876	73.42	PK-U	37.5	-43.7	67.22	-	-	-	-	68.2	-98	226	338	V

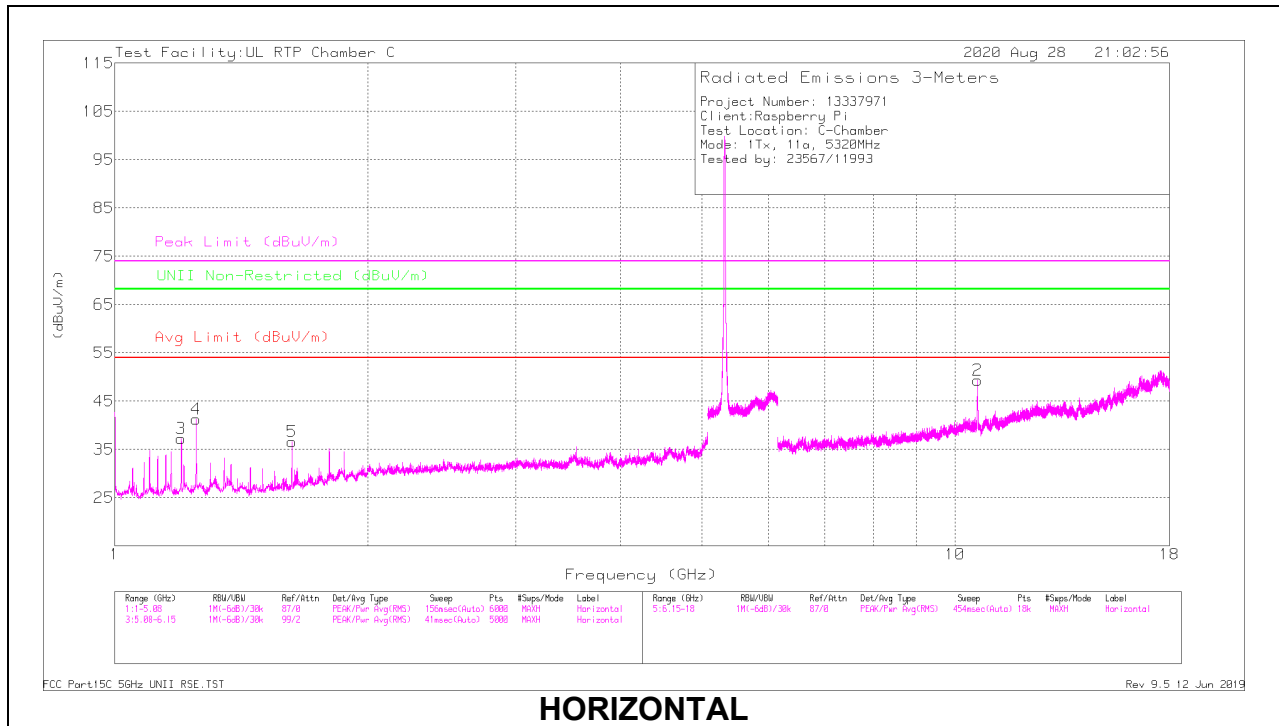
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

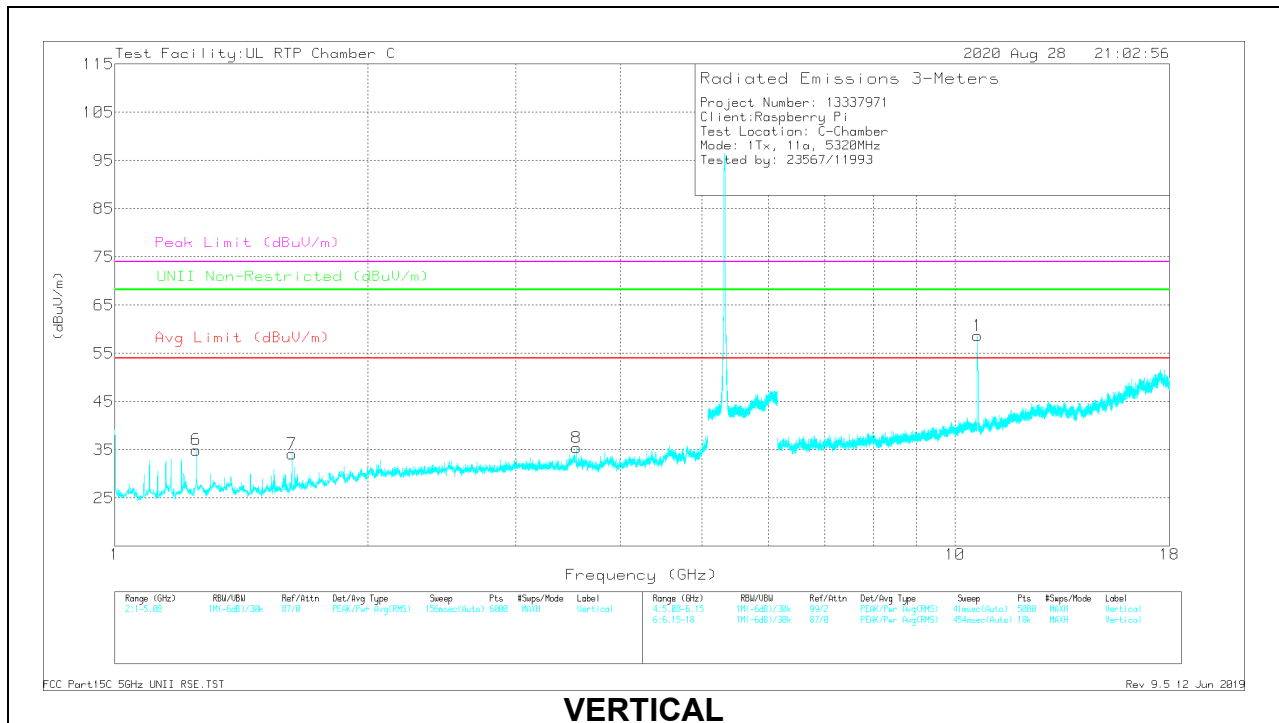
PK-U - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

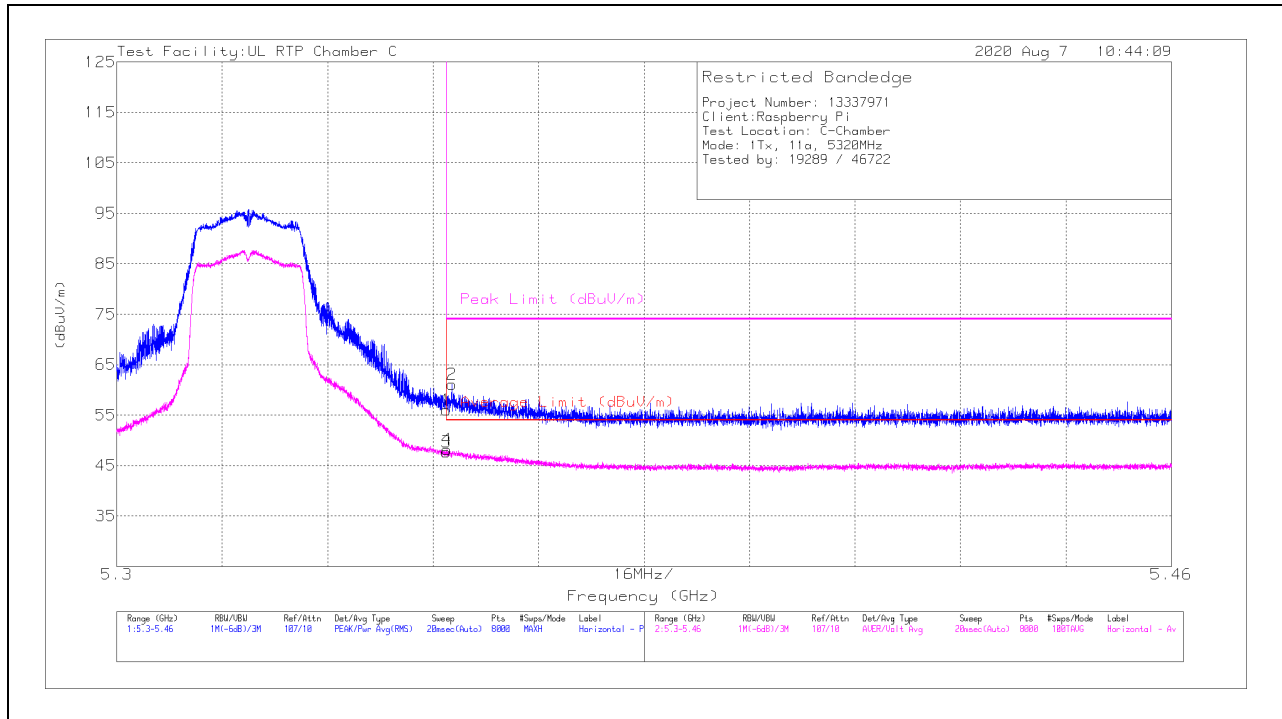
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*** 1.20004	68.74	PK-U	28.1	-55.2	41.64	-	-	74	-32.36	-	-	180	198	H
	*** 1.20001	63.62	ADV	28.1	-55.2	36.52	54	-17.48	-	-	-	-	180	198	H
4	* 1.24973	71.24	PK-U	28.6	-55.3	44.54	-	-	74	-29.46	-	-	178	225	H
	* 1.25002	67.15	ADV	28.6	-55.3	40.45	54	-13.55	-	-	-	-	178	225	H
5	*** 1.62488	66.92	PK-U	28.5	-54.1	41.32	-	-	74	-32.68	-	-	207	327	H
	*** 1.62488	61.17	ADV	28.5	-54.1	35.57	54	-18.43	-	-	-	-	207	327	H
6	* 1.25008	68.49	PK-U	28.6	-55.3	41.79	-	-	74	-32.21	-	-	203	330	V
	* 1.25005	62.89	ADV	28.6	-55.3	36.19	54	-17.81	-	-	-	-	203	330	V
7	*** 1.62525	64.71	PK-U	28.5	-54.1	39.11	-	-	74	-34.89	-	-	233	102	V
	*** 1.62488	58.42	ADV	28.5	-54.1	32.82	54	-21.18	-	-	-	-	233	102	V
8	*** 3.54661	57.66	PK-U	33.4	-50.4	40.66	-	-	74	-33.34	-	-	178	103	V
	*** 3.54662	49.04	ADV	33.4	-50.4	32.04	54	-21.96	-	-	-	-	178	103	V
2	*** 10.63863	61.94	PK-U	37.5	-43.2	56.24	-	-	74	-17.76	-	-	193	249	H
	*** 10.63963	47.57	ADV	37.5	-43.2	41.87	54	-12.13	-	-	-	-	193	249	H
1	*** 10.63587	71.82	PK-U	37.5	-43.3	66.02	-	-	74	-7.98	-	-	268	297	V
	*** 10.63619	59.41	ADV	37.5	-43.3	53.61	54	-39	-	-	-	-	268	297	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band  
 \*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band  
 PK-U - Maximum Peak  
 ADV - Linear Voltage Average

**1TX Antenna 2 MODE**

**BANDEDGE (HIGH CHANNEL)**

**HORIZONTAL RESULT**



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.35001	36.75	Pk	34.6	-15.4	55.95	-	-	74	-18.05	344	109	H
2	* ** 5.35087	41.92	Pk	34.6	-15.4	61.12	-	-	74	-12.88	344	109	H
3	* ** 5.35001	28.54	ADV	34.6	-15.4	47.74	54	-6.26	-	-	344	109	H
4	* ** 5.35013	29.03	ADV	34.6	-15.4	48.23	54	-5.77	-	-	344	109	H

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

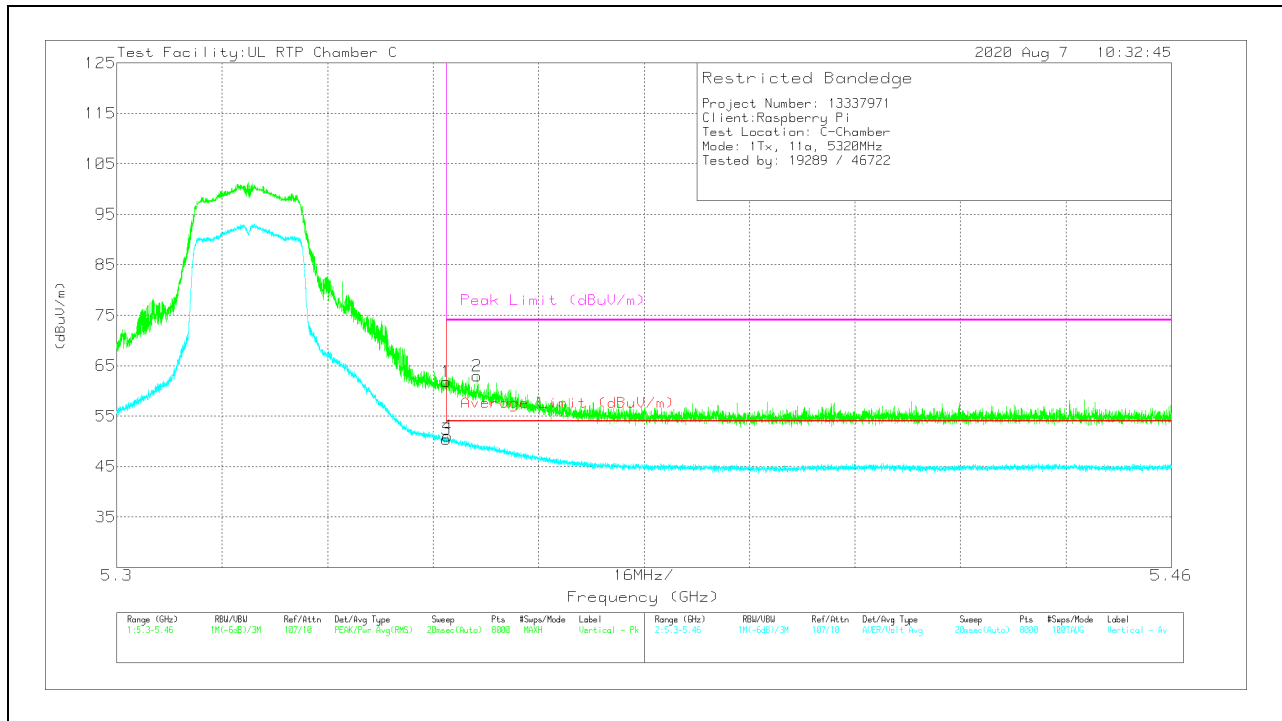
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average



### VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	42.62	Pk	34.6	-15.4	61.82	-	-	74	-12.18	33	104	V
2	*** 5.35465	43.77	Pk	34.6	-15.4	62.97	-	-	74	-11.03	33	104	V
3	*** 5.35001	31.2	ADV	34.6	-15.4	50.4	54	-3.6	-	-	33	104	V
4	*** 5.35021	31.79	ADV	34.6	-15.4	50.99	54	-3.01	-	-	33	104	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

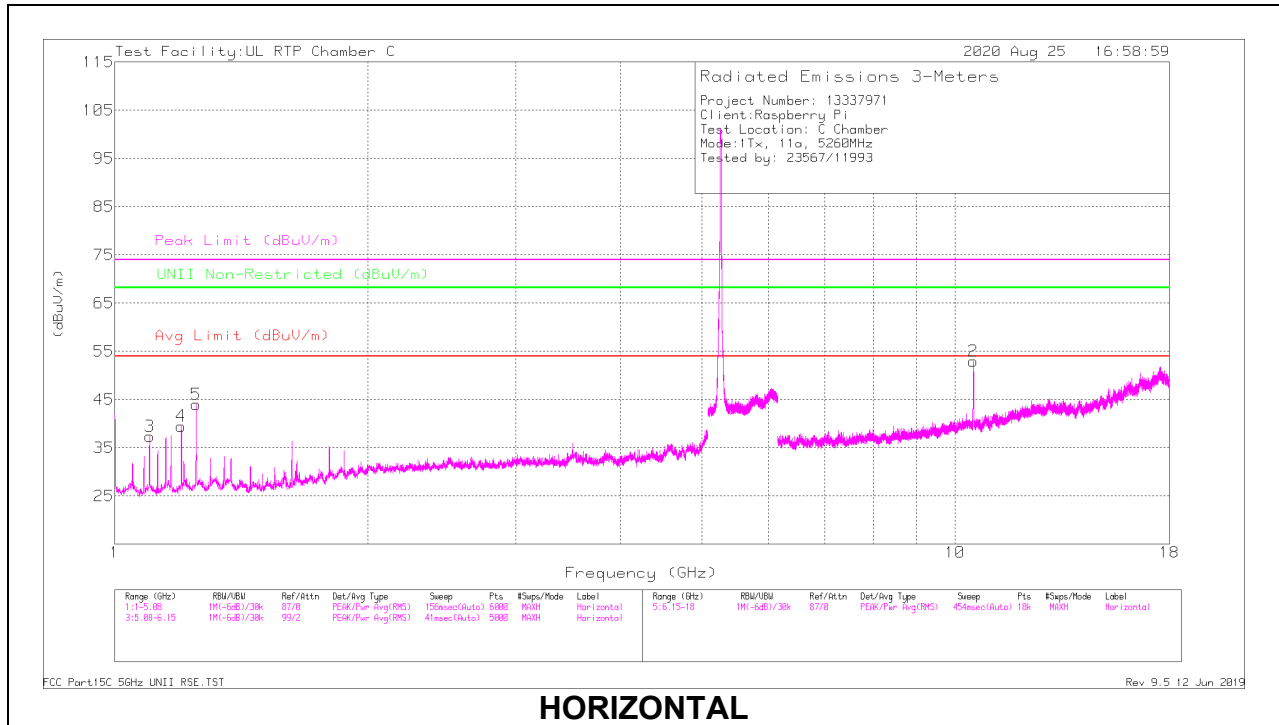
\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

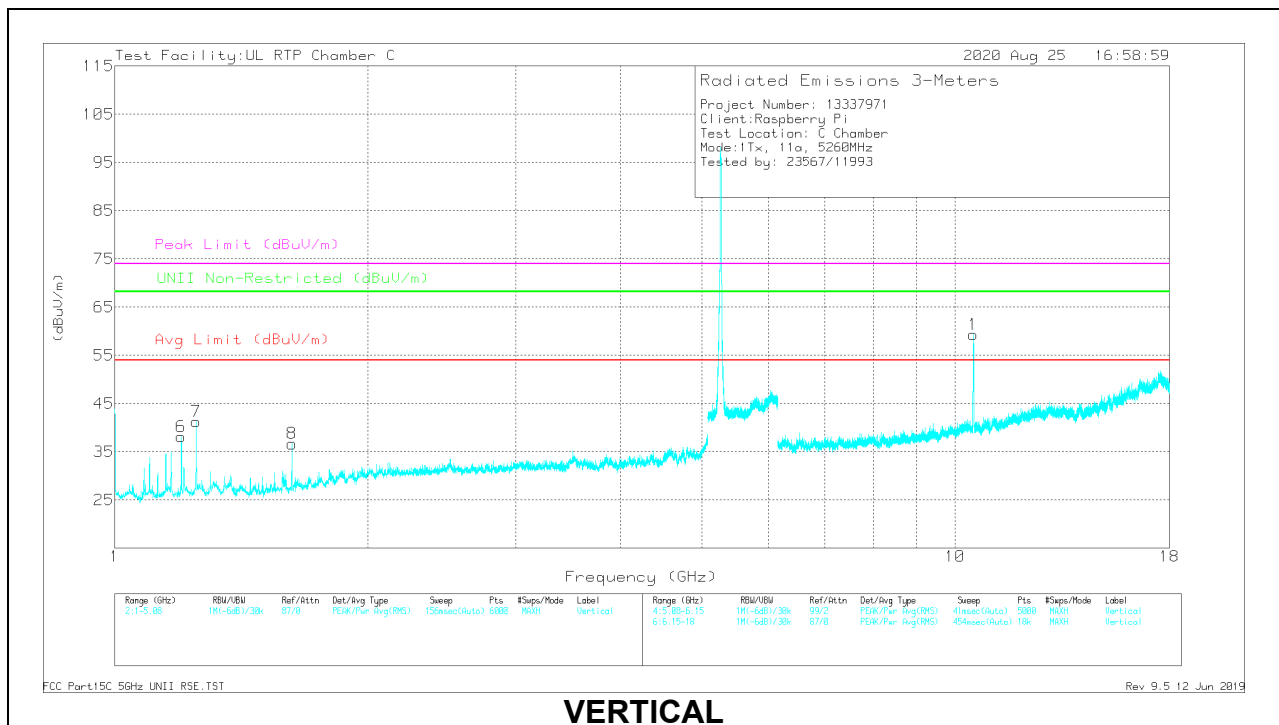
ADV - Linear Voltage Average

**HARMONICS AND SPURIOUS EMISSIONS**

**LOW CHANNEL RESULTS**



**HORIZONTAL**



**VERTICAL**

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*** 1.09996	68.44	PK-U	27.3	-55.3	40.44	-	-	74	-33.56	-	-	181	146	H
	*** 1.10003	64.05	ADV	27.3	-55.3	36.05	54	-17.95	-	-	-	-	181	146	H
4	*** 1.19979	68.7	PK-U	28.1	-55.2	41.6	-	-	74	-32.4	-	-	177	103	H
	*** 1.20003	64.21	ADV	28.1	-55.2	37.11	54	-16.89	-	-	-	-	177	103	H
5	* 1.24987	71.56	PK-U	28.6	-55.3	44.86	-	-	74	-29.14	-	-	171	102	H
	* 1.25005	68.19	ADV	28.6	-55.3	41.49	54	-12.51	-	-	-	-	171	102	H
6	*** 1.20001	67.95	PK-U	28.1	-55.2	40.85	-	-	74	-33.15	-	-	251	102	V
	*** 1.20001	62.98	ADV	28.1	-55.2	35.88	54	-18.12	-	-	-	-	251	102	V
7	* 1.24996	70.19	PK-U	28.6	-55.3	43.49	-	-	74	-30.51	-	-	246	103	V
	* 1.25001	66.51	ADV	28.6	-55.3	39.81	54	-14.19	-	-	-	-	246	103	V
8	*** 1.62488	63.85	PK-U	28.5	-54.1	38.25	-	-	74	-35.75	-	-	244	102	V
	*** 1.62488	57.82	ADV	28.5	-54.1	32.22	54	-21.78	-	-	-	-	244	102	V
2	10.51587	64.75	PK-U	37.4	-43.3	58.85	-	-	-	-	68.2	-9.35	137	102	H
1	10.51873	73.55	PK-U	37.4	-43.5	67.45	-	-	-	-	68.2	-.75	251	299	V

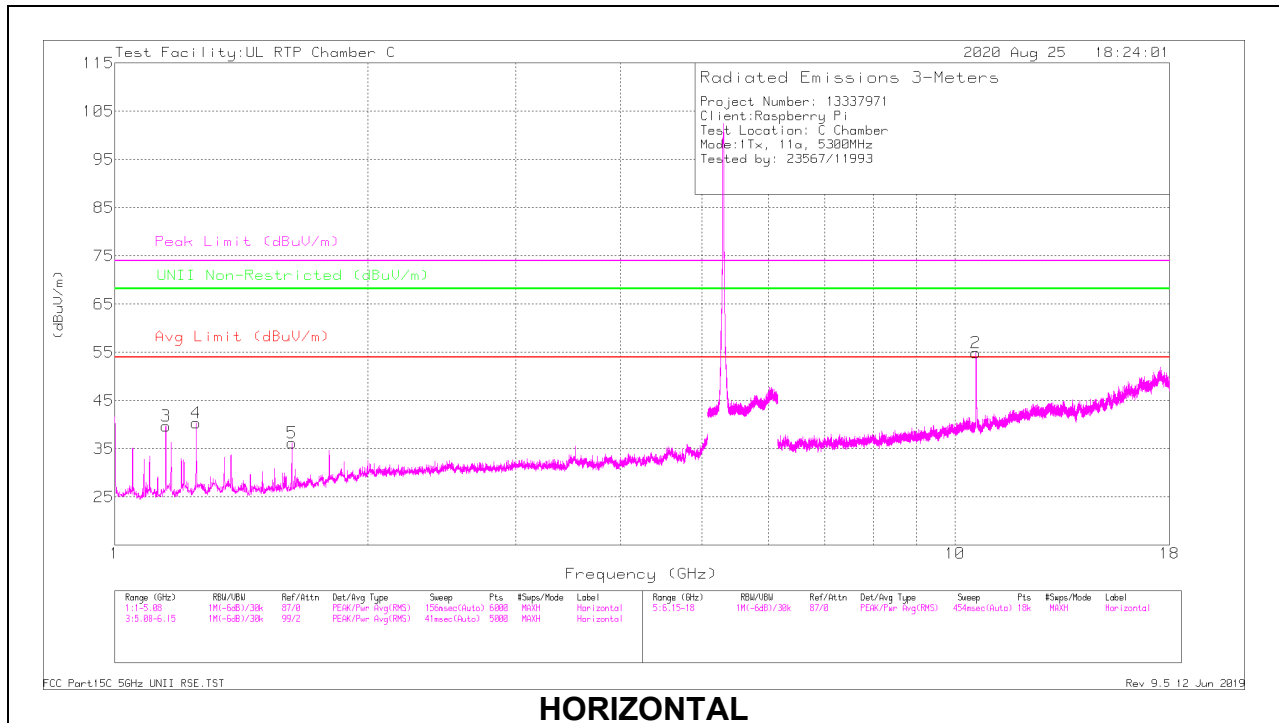
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

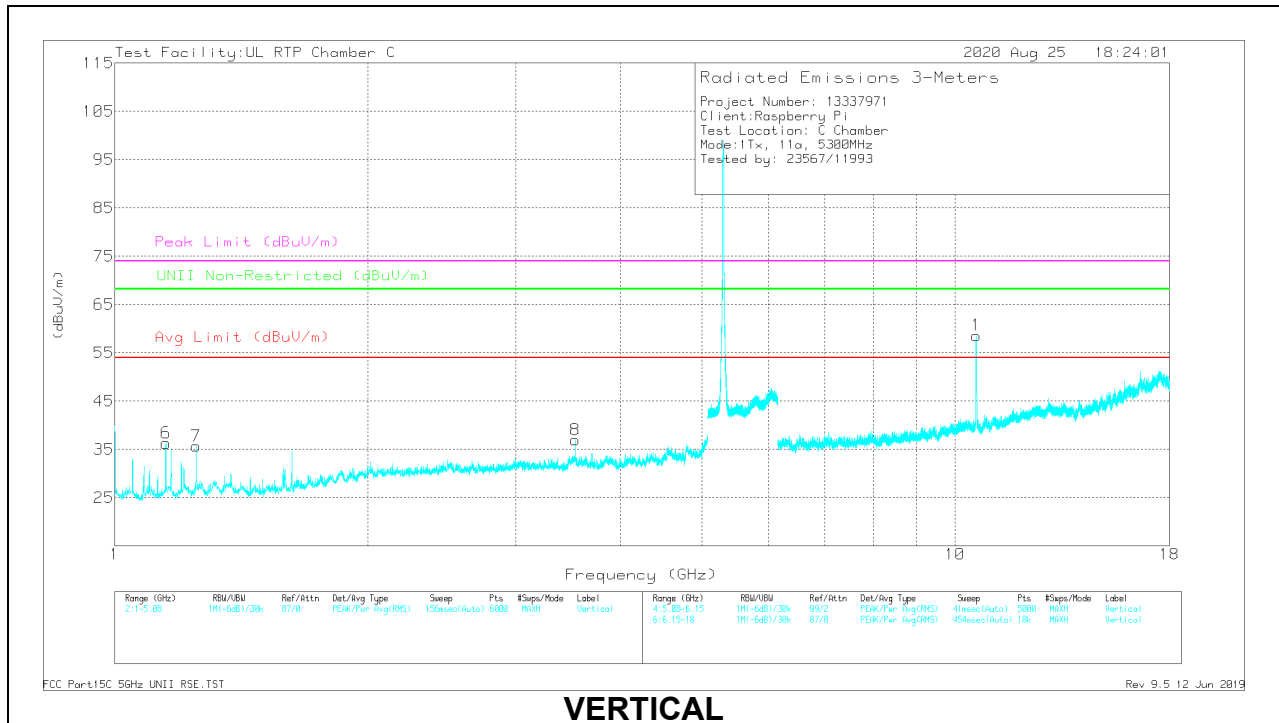
PK-U - Maximum Peak

ADV - Linear Voltage Average

### MID CHANNEL RESULTS



### HORIZONTAL



### VERTICAL

**RADIATED EMISSIONS**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	*** 1.14989	69.78	PK-U	27.4	-54.9	42.28	-	-	74	-31.72	-	-	173	102	H
	*** 1.15002	66.09	ADV	27.4	-54.9	38.59	54	-15.41	-	-	-	-	173	102	H
4	* 1.2501	69.42	PK-U	28.6	-55.3	42.72	-	-	74	-31.28	-	-	340	102	H
	* 1.25001	65.61	ADV	28.6	-55.3	38.91	54	-15.09	-	-	-	-	340	102	H
5	*** 1.62563	65.5	PK-U	28.5	-54.1	39.9	-	-	74	-34.1	-	-	85	102	H
	*** 1.62488	59.56	ADV	28.5	-54.1	33.96	54	-20.04	-	-	-	-	85	102	H
6	*** 1.15006	67.57	PK-U	27.4	-54.9	40.07	-	-	74	-33.93	-	-	253	102	V
	*** 1.14999	62.71	ADV	27.4	-54.9	35.21	54	-18.79	-	-	-	-	253	102	V
7	* 1.24984	66.37	PK-U	28.6	-55.3	39.67	-	-	74	-34.33	-	-	281	102	V
	* 1.25003	61.1	ADV	28.6	-55.3	34.4	54	-19.6	-	-	-	-	281	102	V
8	*** 3.53331	58.79	PK-U	33.5	-49.6	42.69	-	-	74	-31.31	-	-	151	102	V
	*** 3.53327	50.82	ADV	33.5	-49.6	34.72	54	-19.28	-	-	-	-	151	102	V
2	10.59553	64.08	PK-U	37.5	-43.7	57.88	-	-	-	-	68.2	-10.32	139	187	H
1	10.59884	74.04	PK-U	37.5	-43.7	67.84	-	-	-	-	68.2	-36	236	316	V

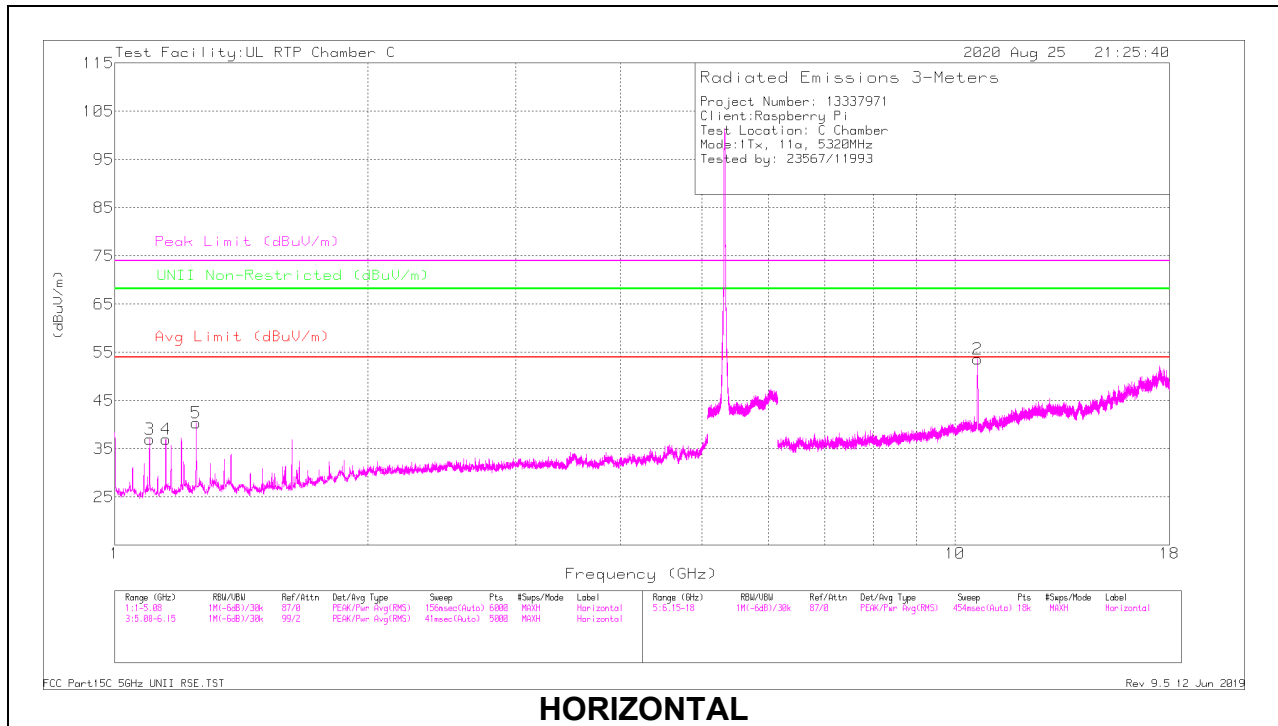
\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

\*\* - indicates frequency in Taiwan NCC LP0002 Restricted Band

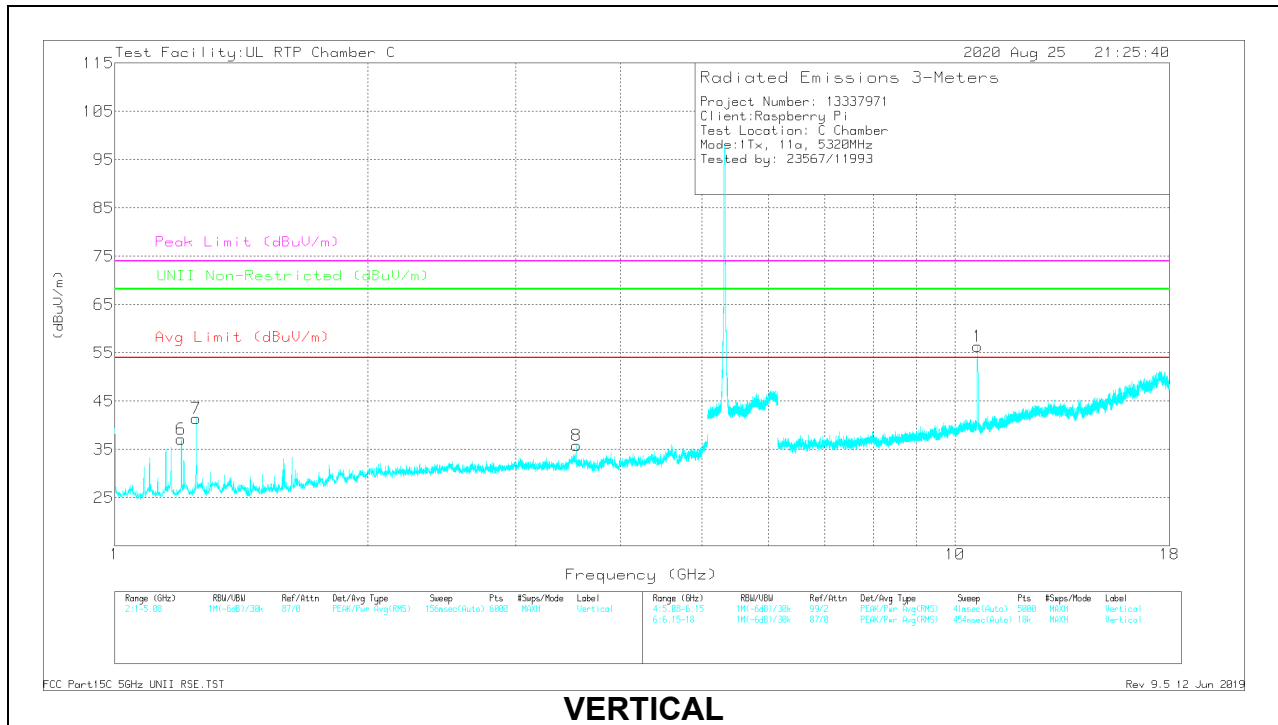
PK-U - Maximum Peak

ADV - Linear Voltage Average

### HIGH CHANNEL RESULTS



### HORIZONTAL



### VERTICAL