



TEST REPORT

Report Number. : R13337971-E3

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

Model : RPI-RM0 (Gamma)

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:
2020-10-26

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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 (Gamma)

SERIAL NUMBER: Non-serialized

DATE TESTED: 2020-08-15 to 2020-10-21

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

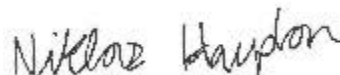
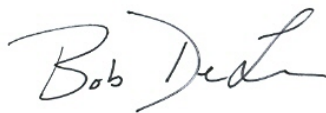
UL LLC tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

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

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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.	
Site Code: 2180C			
<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	3.40 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.

6.2. POWER SETTINGS USED FOR TESTING

The power settings are as follows:

Frequency Band	Wi-Fi Channels	802.11a	802.11n20	802.11n40	802.11ac80
5.15 to 5.25 GHz	36	75	58		
	38			70	
	40	75	58		
	42				64
	46			70	
	48	75	58		
5.25 to 5.35 GHz	52	73	73		
	54			75	
	58				60
	60	73	73		
	62			65	
	64	73	73		
5.47 to 5.725 GHz	100	58	52		
	102			54	
	106				56
	110			76	
	116	66	63		
	122				68
	134			73	
	140	66	57		
5.725 to 5.85 GHz	149	63	67		
	151			70	
	155				73
	157	66	67		
	159			70	
	165	66	67		

6.3. DESCRIPTION OF AVAILABLE ANTENNAS

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

6.4. SOFTWARE AND FIRMWARE

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

6.5. 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, it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with both antennas in the X orientation.

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)
2.4GHz Band					
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%.

6.6. 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 R13337971-EP1 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 (RTP -Chamber C)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
	1-18 GHz				
AT0062	HORN Antenna	ETS-Lindgren	3117	2020-01-30	2021-01-30
	Gain-Loss Chains				
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
	Receiver & Software				
SA0018	Spectrum Analyzer	Agilent	PXA (N9030A)	2020-03-02	2021-03-02
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
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.
	1-18 GHz				
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-28	2021-04-28
	Gain-Loss Chains				
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2020-07-06	2020-07-06
	Receiver & Software				
SA0025	Spectrum Analyzer	Agilent	N9030A	2020-03-17	2021-03-17
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
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.
	0.009-30MHz	(Loop Ant.)			
AT0059	Active Loop Antenna	EMCO	6502	2020-08-06	2021-08-06
	30-1000 MHz				
AT0074	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2020-07-27	2021-07-27
	1-18 GHz				
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2020-04-27	2021-04-27
	18-40 GHz				
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
	Gain-Loss Chains				
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
	Receiver & Software				
197954	Spectrum Analyzer	Rohde & Schwarz	ESW44	2020-03-27	2021-03-27
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
	Additional Equipment used				
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
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

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.

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.

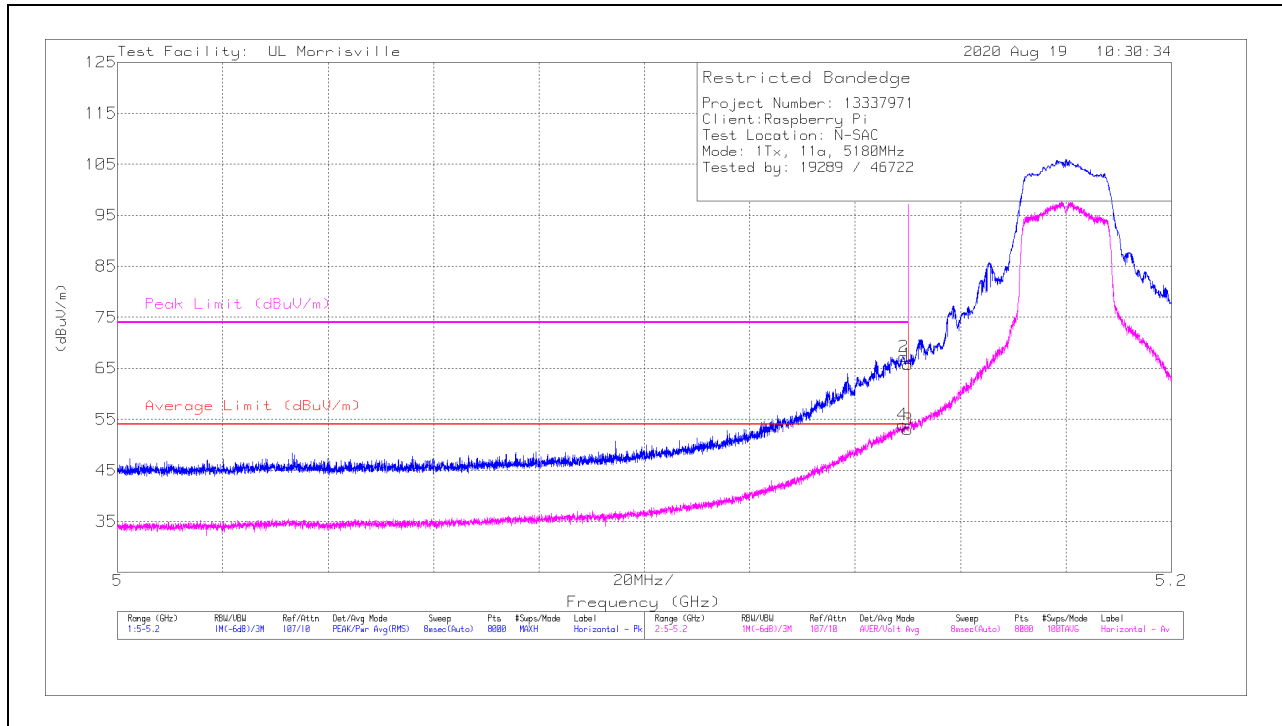
9.1. TRANSMITTER ABOVE 1 GHz

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	AT0072 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	54.37	Pk	34.2	-22.8	65.77	-	-	74	-8.23	57	235	H
2	*** 5.14924	55.89	Pk	34.2	-22.8	67.29	-	-	74	-6.71	57	235	H
3	*** 5.14999	41.67	ADV	34.2	-22.8	53.07	54	-93	-	-	57	235	H
4	*** 5.14899	42.54	ADV	34.2	-22.8	53.94	54	-06	-	-	57	235	H

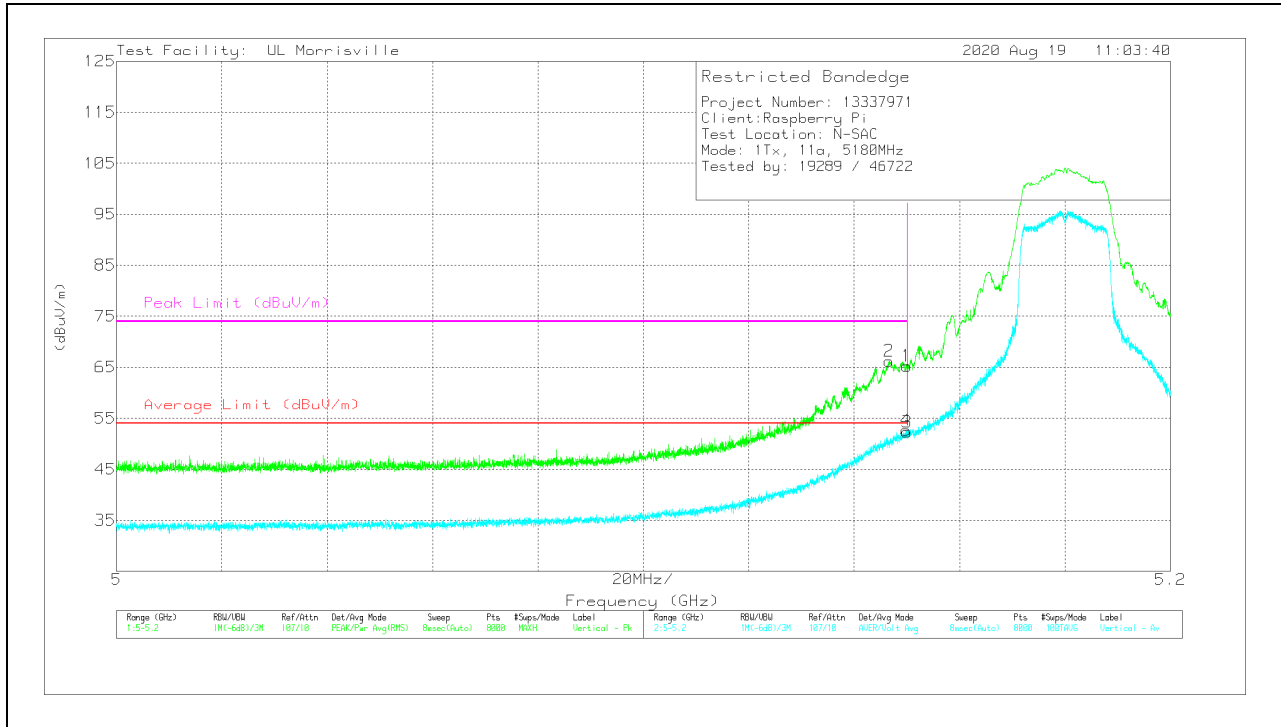
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 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	53.87	Pk	34.2	-22.8	65.27	-	-	74	-8.73	134	246	V
2	*** 5.14662	54.84	Pk	34.2	-22.8	66.24	-	-	74	-7.76	134	246	V
3	*** 5.14999	40.9	ADV	34.2	-22.8	52.3	54	-1.7	-	-	134	246	V
4	*** 5.14987	41.28	ADV	34.2	-22.8	52.68	54	-1.32	-	-	134	246	V

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

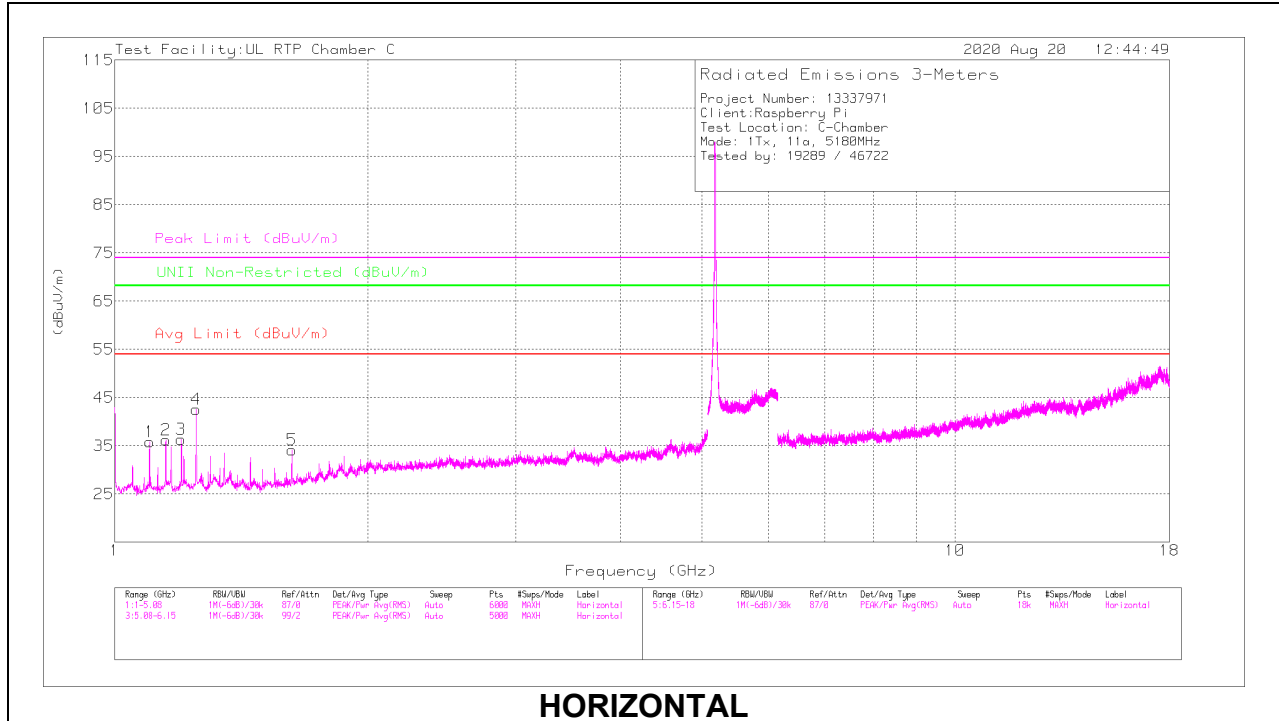
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

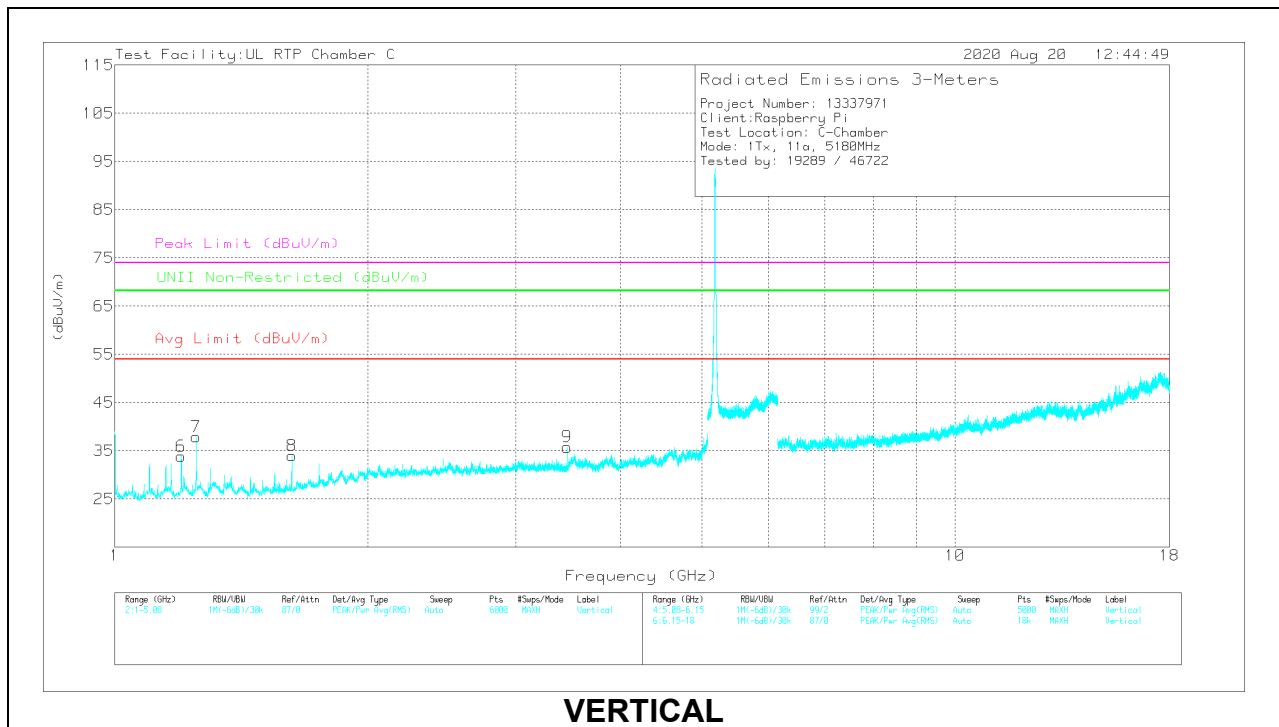
ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



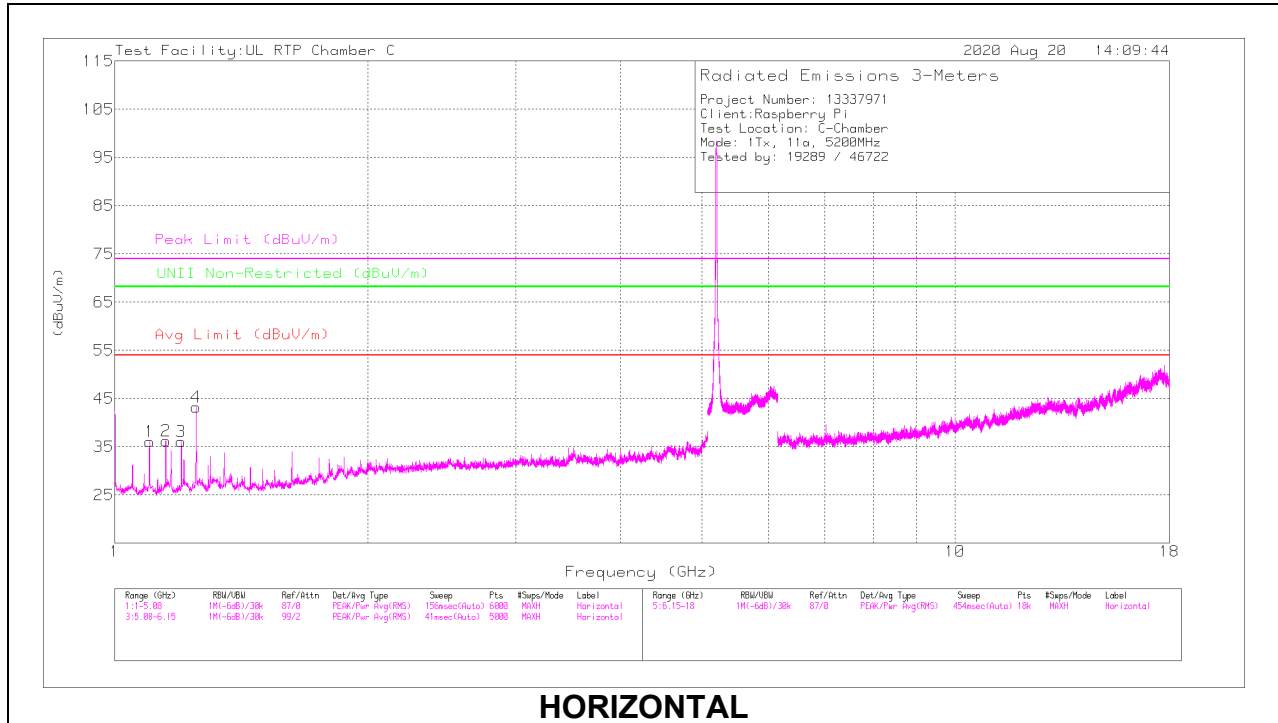
VERTICAL

RADIATED EMISSIONS

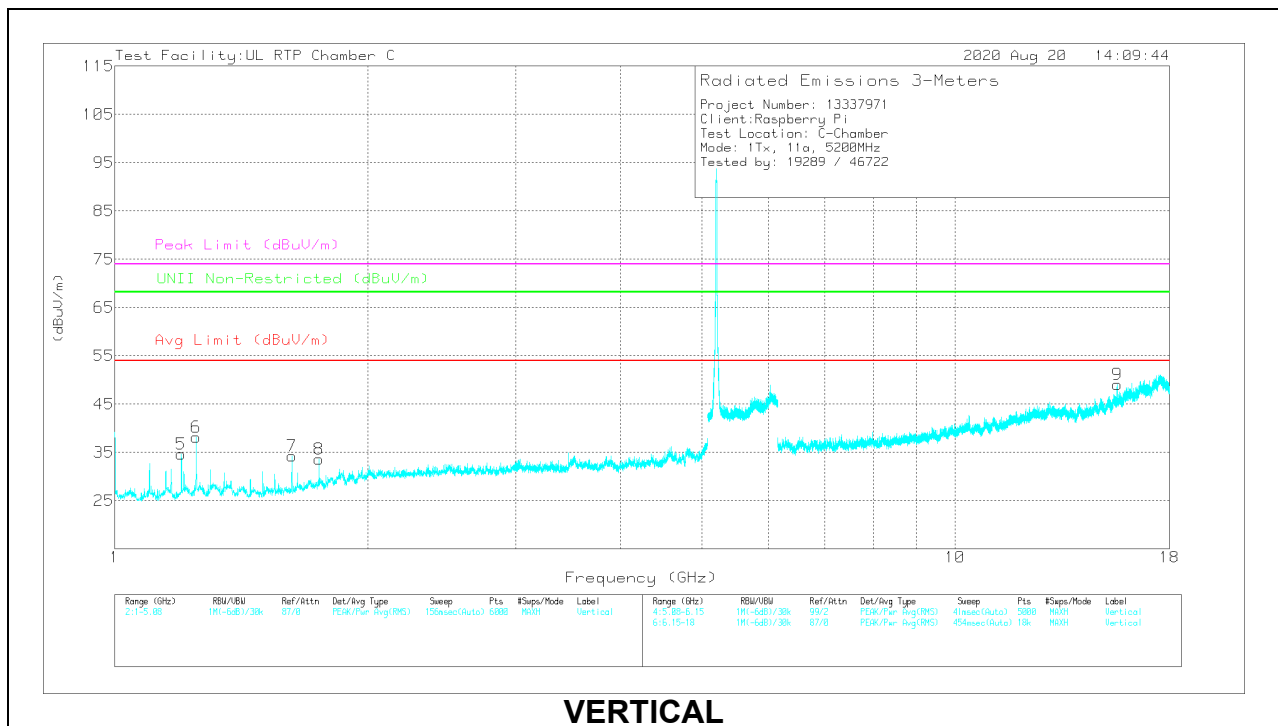
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.10023	68.9	PK-U	27.3	-55.3	40.9	-	-	74	-33.1	-	-	167	114	H
	*** 1.09998	63.43	ADV	27.3	-55.3	35.43	54	-18.57	-	-	-	-	167	114	H
2	*** 1.15004	68	PK-U	27.4	-54.9	40.5	-	-	74	-33.5	-	-	172	103	H
	*** 1.15007	62.04	ADV	27.4	-54.9	34.54	54	-19.46	-	-	-	-	172	103	H
3	*** 1.19988	67.78	PK-U	28.1	-55.2	40.68	-	-	74	-33.32	-	-	178	103	H
	*** 1.20001	61.84	ADV	28.1	-55.2	34.74	54	-19.26	-	-	-	-	178	103	H
4	* 1.25006	72.42	PK-U	28.6	-55.3	45.72	-	-	74	-28.28	-	-	185	103	H
	* 1.25004	68.33	ADV	28.6	-55.3	41.63	54	-12.37	-	-	-	-	185	103	H
5	*** 1.62483	67.53	PK-U	28.5	-54.1	41.93	-	-	74	-32.07	-	-	86	387	H
	*** 1.62502	61.05	ADV	28.5	-54.1	35.45	54	-18.55	-	-	-	-	86	387	H
6	*** 1.19981	67.26	PK-U	28.1	-55.2	40.16	-	-	74	-33.84	-	-	77	395	V
	*** 1.20004	60.06	ADV	28.1	-55.2	32.96	54	-21.04	-	-	-	-	77	395	V
7	* 1.25003	70.87	PK-U	28.6	-55.3	44.17	-	-	74	-29.83	-	-	257	387	V
	* 1.25005	65.8	ADV	28.6	-55.3	39.1	54	-14.9	-	-	-	-	257	387	V
8	*** 1.6248	67.61	PK-U	28.5	-54.1	42.01	-	-	74	-31.99	-	-	135	382	V
	*** 1.62506	61.28	ADV	28.5	-54.1	35.68	54	-18.32	-	-	-	-	135	382	V
9	3.4533	60.69	PK-U	32.7	-50.7	42.69	-	-	-	-	68.2	-25.51	209	398	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
1	*** 1.1002	68.65	PK-U	27.3	-55.3	40.65	-	-	74	-33.35	-	-	173	146	H
	*** 1.10004	62.92	ADV	27.3	-55.3	34.92	54	-19.08	-	-	-	-	173	146	H
2	*** 1.15023	66.98	PK-U	27.4	-54.9	39.48	-	-	74	-34.52	-	-	161	102	H
	*** 1.15005	60.16	ADV	27.4	-54.9	32.66	54	-21.34	-	-	-	-	161	102	H
3	*** 1.20003	67.79	PK-U	28.1	-55.2	40.69	-	-	74	-33.31	-	-	179	103	H
	*** 1.20006	61.87	ADV	28.1	-55.2	34.77	54	-19.23	-	-	-	-	179	103	H
4	* 1.25004	72.71	PK-U	28.6	-55.3	46.01	-	-	74	-27.99	-	-	179	102	H
	* 1.25007	68.67	ADV	28.6	-55.3	41.97	54	-12.03	-	-	-	-	179	102	H
5	*** 1.20022	66.11	PK-U	28.1	-55.2	39.01	-	-	74	-34.99	-	-	327	102	V
	*** 1.20005	58.65	ADV	28.1	-55.2	31.55	54	-22.45	-	-	-	-	327	102	V
6	* 1.25008	69.08	PK-U	28.6	-55.3	42.38	-	-	74	-31.62	-	-	315	215	V
	* 1.25003	63.73	ADV	28.6	-55.3	37.03	54	-16.97	-	-	-	-	315	215	V
7	*** 1.62538	67.33	PK-U	28.5	-54.1	41.73	-	-	74	-32.27	-	-	164	292	V
	*** 1.62503	61.43	ADV	28.5	-54.1	35.83	54	-18.17	-	-	-	-	164	292	V
8	** 1.74991	64.47	PK-U	29.7	-54.3	39.87	-	-	-	-	68.2	-28.33	162	285	V
	** 1.75003	54.54	ADV	29.7	-54.3	29.94	-	-	-	-	-	-	162	285	V
9	*** 15.5969	57.31	PK-U	40.5	-38.8	59.01	-	-	74	-14.99	-	-	200	257	V
	*** 15.5971	43.49	ADV	40.5	-38.8	45.19	54	-8.81	-	-	-	-	200	257	V

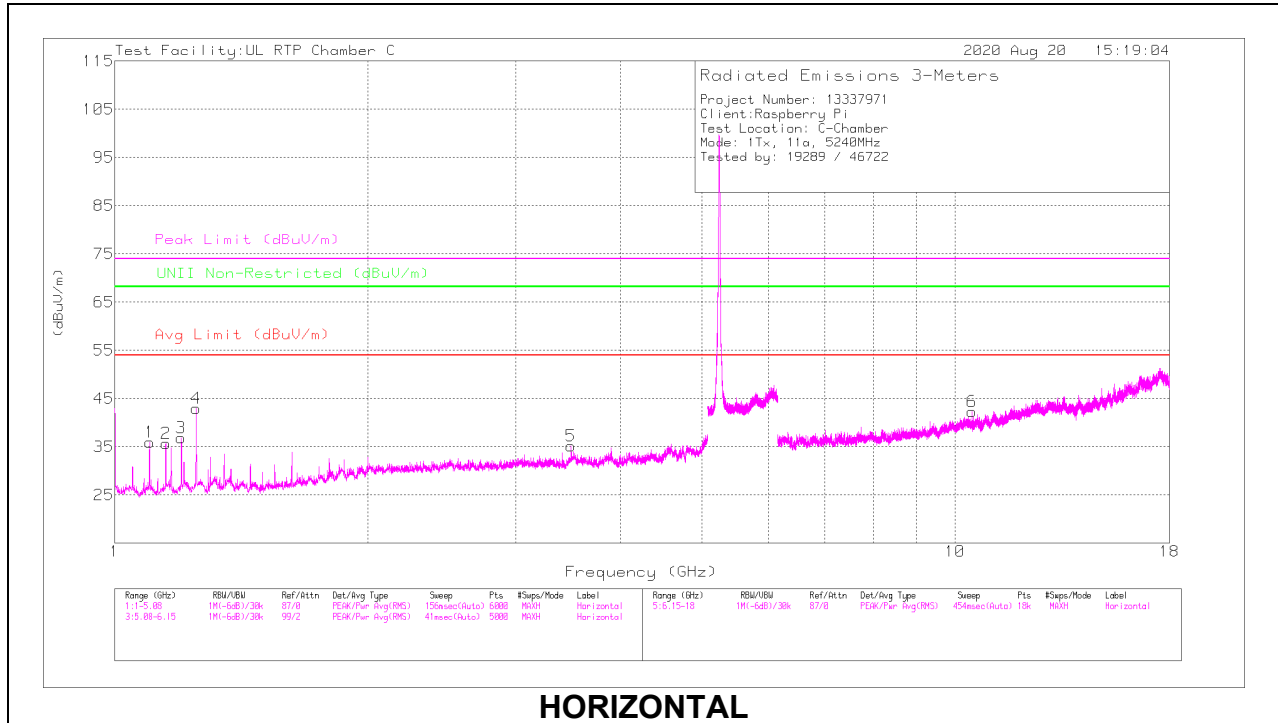
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

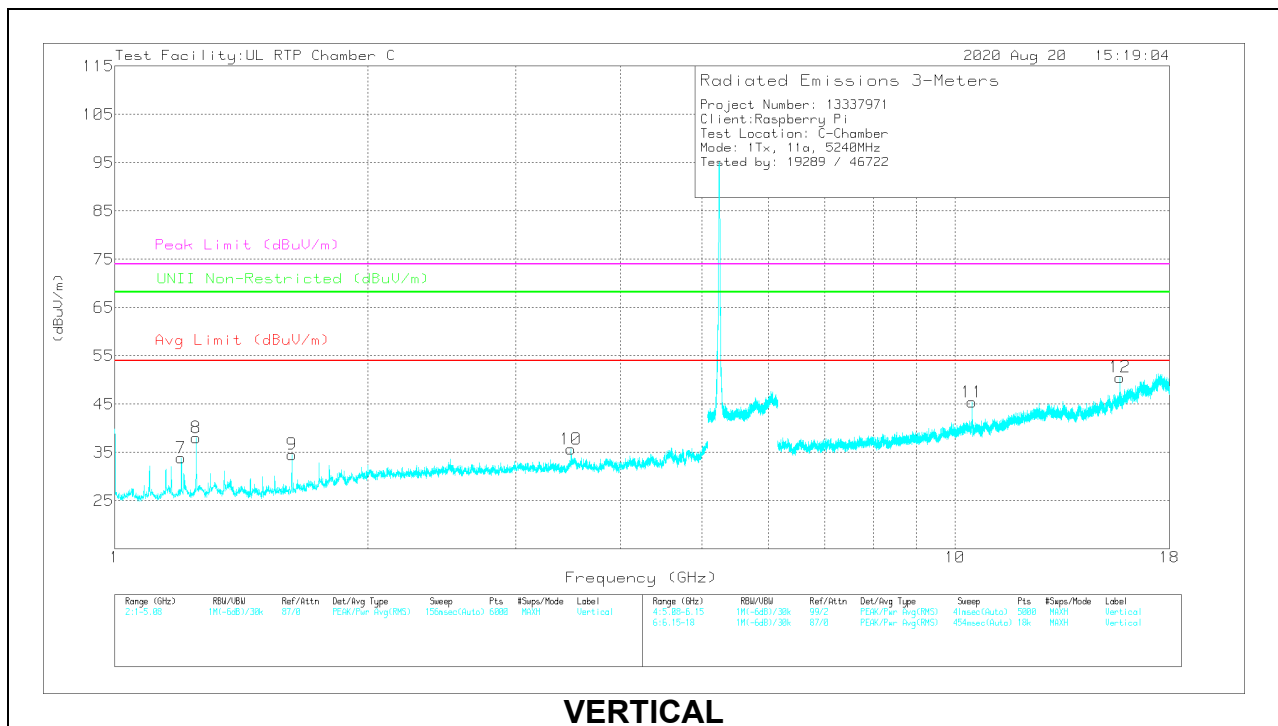
PK-U - Maximum Peak

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	*** 1.09978	68.93	PK-U	27.3	-55.3	40.93	-	-	74	-33.07	-	-	169	119	H
	*** 1.10002	63.26	ADV	27.3	-55.3	35.26	54	-18.74	-	-	-	-	169	119	H
2	*** 1.14994	67.82	PK-U	27.4	-54.9	40.32	-	-	74	-33.68	-	-	173	102	H
	*** 1.15001	62.07	ADV	27.4	-54.9	34.57	54	-19.43	-	-	-	-	173	102	H
3	*** 1.20017	67.88	PK-U	28.1	-55.2	40.78	-	-	74	-33.22	-	-	177	103	H
	*** 1.20004	62.06	ADV	28.1	-55.2	34.96	54	-19.04	-	-	-	-	177	103	H
4	* 1.2501	72.7	PK-U	28.6	-55.3	46	-	-	74	-28	-	-	179	102	H
	* 1.25005	68.45	ADV	28.6	-55.3	41.75	54	-12.25	-	-	-	-	179	102	H
7	*** 1.20007	66.15	PK-U	28.1	-55.2	39.05	-	-	74	-34.95	-	-	287	102	V
	*** 1.20005	59.14	ADV	28.1	-55.2	32.04	54	-21.96	-	-	-	-	287	102	V
8	* 1.25021	69.41	PK-U	28.6	-55.3	42.71	-	-	74	-31.29	-	-	314	215	V
	* 1.25002	64.08	ADV	28.6	-55.3	37.38	54	-16.62	-	-	-	-	314	215	V
9	*** 1.62494	66.29	PK-U	28.5	-54.1	40.69	-	-	74	-33.31	-	-	151	279	V
	*** 1.62505	59.36	ADV	28.5	-54.1	33.76	54	-20.24	-	-	-	-	151	279	V
12	*** 15.71953	54.84	PK-U	40.7	-37.8	57.74	-	-	74	-16.26	-	-	175	244	V
	*** 15.72003	41.12	ADV	40.7	-37.9	43.92	54	-10.08	-	-	-	-	175	244	V
10	3.49305	58.2	PK-U	33.7	-49.9	42	-	-	-	-	68.2	-26.2	218	285	V
5	3.49338	58.19	PK-U	33.7	-49.9	41.99	-	-	-	-	68.2	-26.21	87	102	H
11	10.47899	64.39	PK-U	37.4	-42.8	58.99	-	-	-	-	68.2	-9.21	282	314	V
6	10.48206	57.55	PK-U	37.4	-42.9	52.05	-	-	-	-	68.2	-16.15	247	220	H

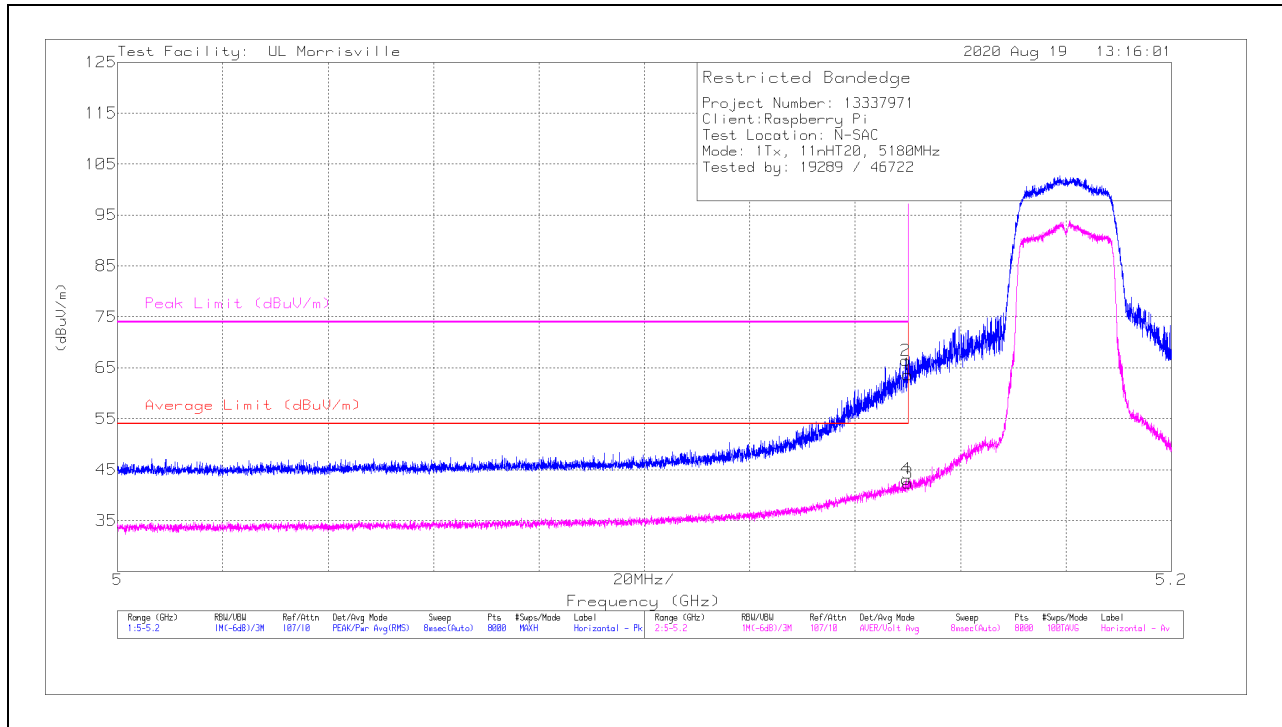
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

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	AT0072 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	52.27	Pk	34.2	-22.8	63.67	-	-	74	-10.33	102	183	H
2	* ** 5.14954	55.01	Pk	34.2	-22.8	66.41	-	-	74	-7.59	102	183	H
3	* ** 5.14999	30.94	ADV	34.2	-22.8	42.34	54	-11.66	-	-	102	182	H
4	* ** 5.14967	31.75	ADV	34.2	-22.8	43.15	54	-10.85	-	-	102	182	H

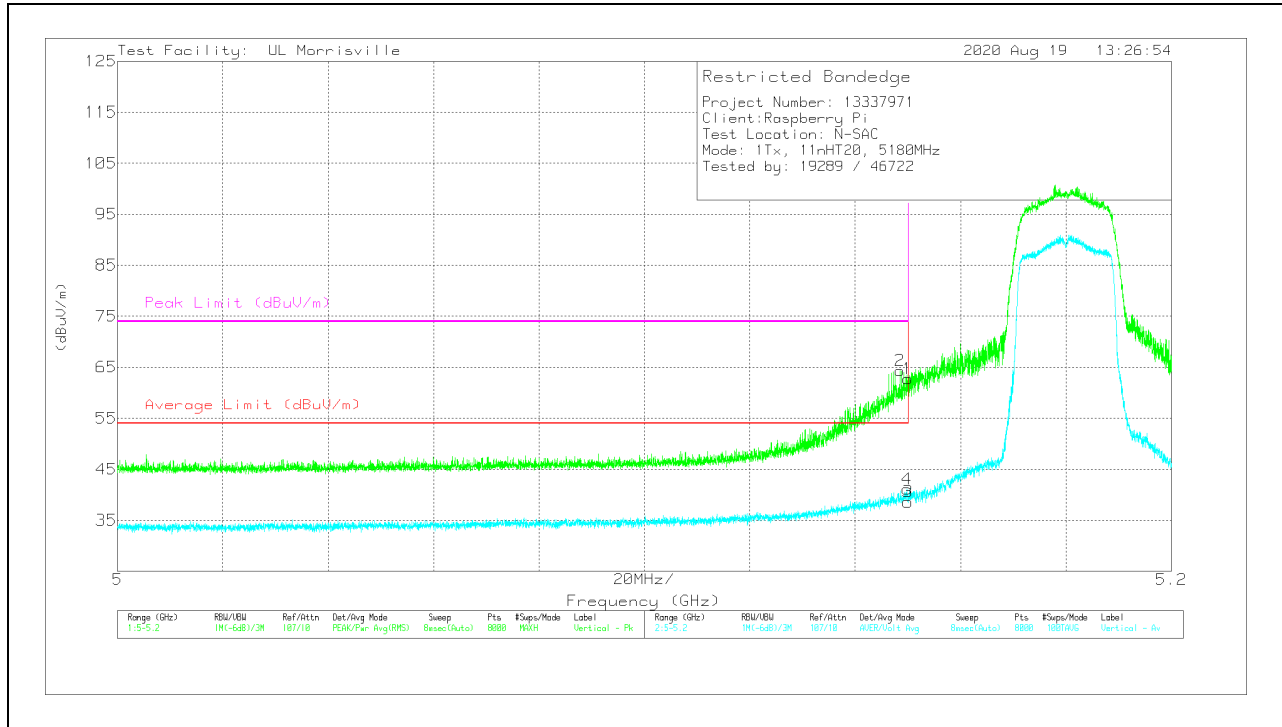
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

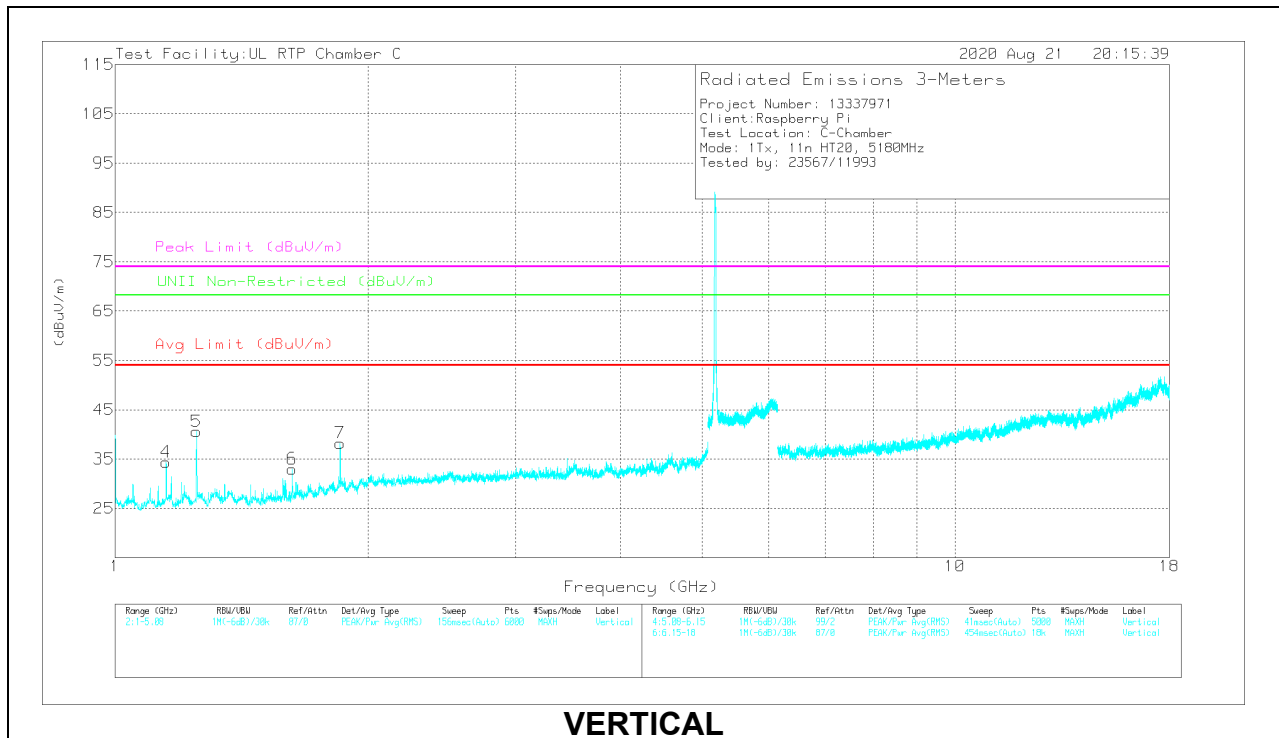
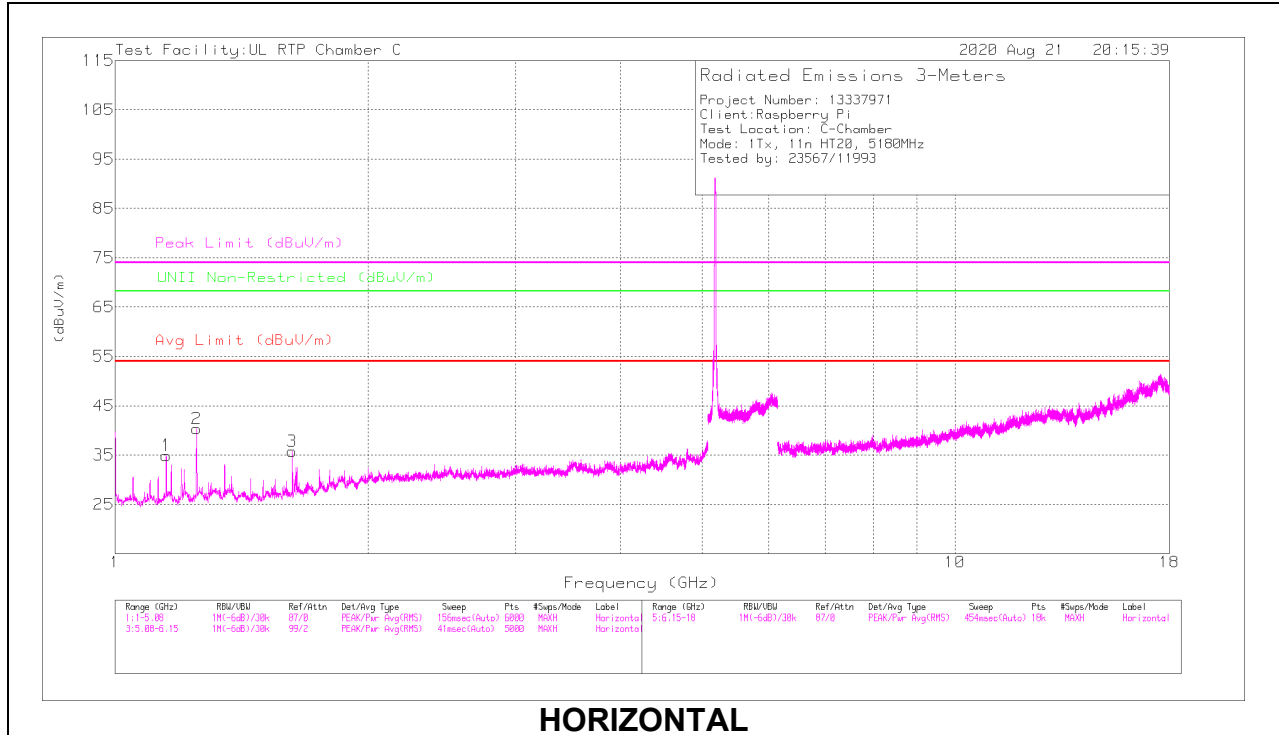


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.14999	51.36	Pk	34.2	-22.8	62.76	-	-	74	-11.24	140	317	V
2	* ** 5.14852	52.98	Pk	34.2	-22.8	64.38	-	-	74	-9.62	140	317	V
3	* ** 5.14999	27.22	ADV	34.2	-22.8	38.62	54	-15.38	-	-	140	317	V
4	* ** 5.14987	29.69	ADV	34.2	-22.8	41.09	54	-12.91	-	-	140	317	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



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	* ** 1.62488	65.92	PK-U	28.5	-54.1	40.32	-	-	74	-33.68	-	-	210	170	H
	* ** 1.62488	59.85	ADV	28.5	-54.1	34.25	54	-19.75	-	-	-	-	210	170	H
2	* 1.25008	70.9	PK-U	28.6	-55.3	44.2	-	-	74	-29.8	-	-	167	225	H
	* 1.25008	66.67	ADV	28.6	-55.3	39.97	54	-14.03	-	-	-	-	167	225	H
1	* ** 1.15025	66.33	PK-U	27.4	-54.9	38.83	-	-	74	-35.17	-	-	334	102	H
	* ** 1.15004	60.09	ADV	27.4	-54.9	32.59	54	-21.41	-	-	-	-	334	102	H
7	** 1.85576	60.78	PK-U	30.9	-53.7	37.98	-	-	-	-	68.2	-30.22	31	102	V
	** 1.85507	47.23	ADV	30.9	-53.7	24.43	-	-	-	-	-	-	31	102	V
6	* ** 1.62488	63.27	PK-U	28.5	-54.1	37.67	-	-	74	-36.33	-	-	218	102	V
	* ** 1.62488	54.73	ADV	28.5	-54.1	29.13	54	-24.87	-	-	-	-	218	102	V
5	* 1.25011	70.29	PK-U	28.6	-55.3	43.59	-	-	74	-30.41	-	-	249	171	V
	* 1.24999	65.14	ADV	28.6	-55.3	38.44	54	-15.56	-	-	-	-	249	171	V
4	* ** 1.14949	66.32	PK-U	27.4	-54.9	38.82	-	-	74	-35.18	-	-	88	192	V
	* ** 1.14999	59.82	ADV	27.4	-54.9	32.32	54	-21.68	-	-	-	-	88	192	V

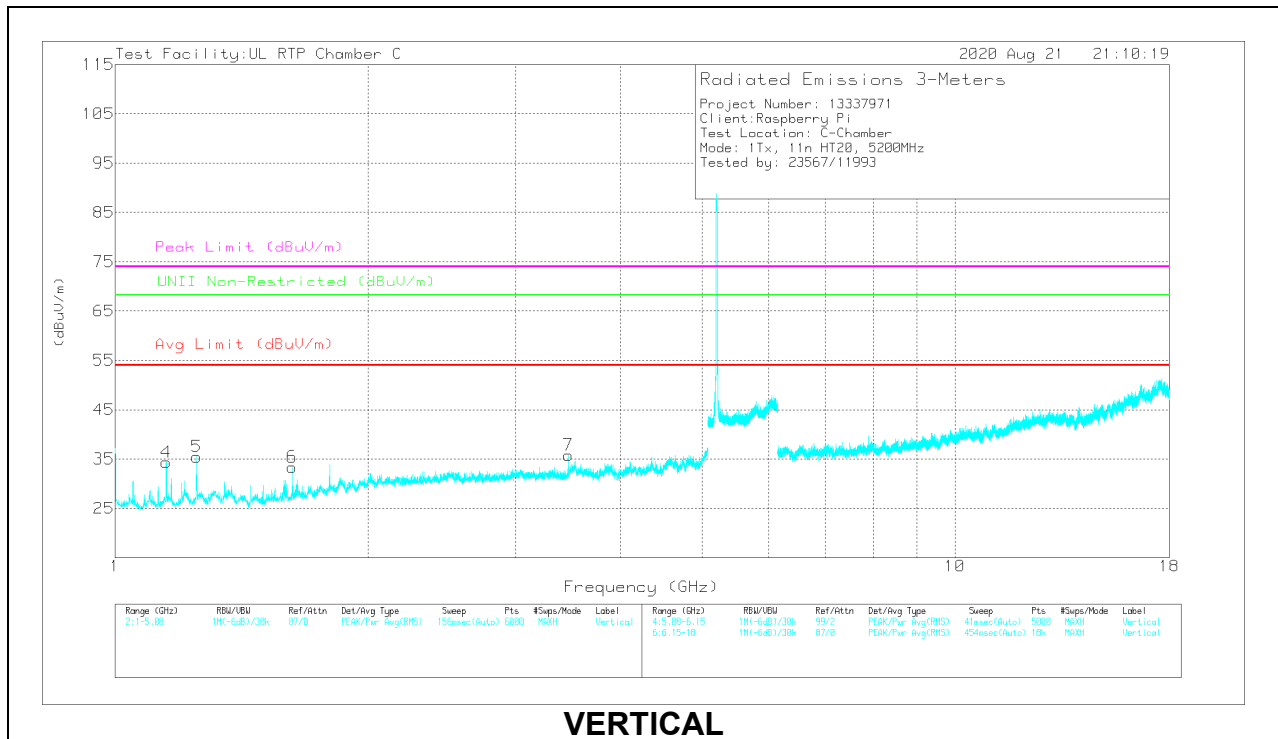
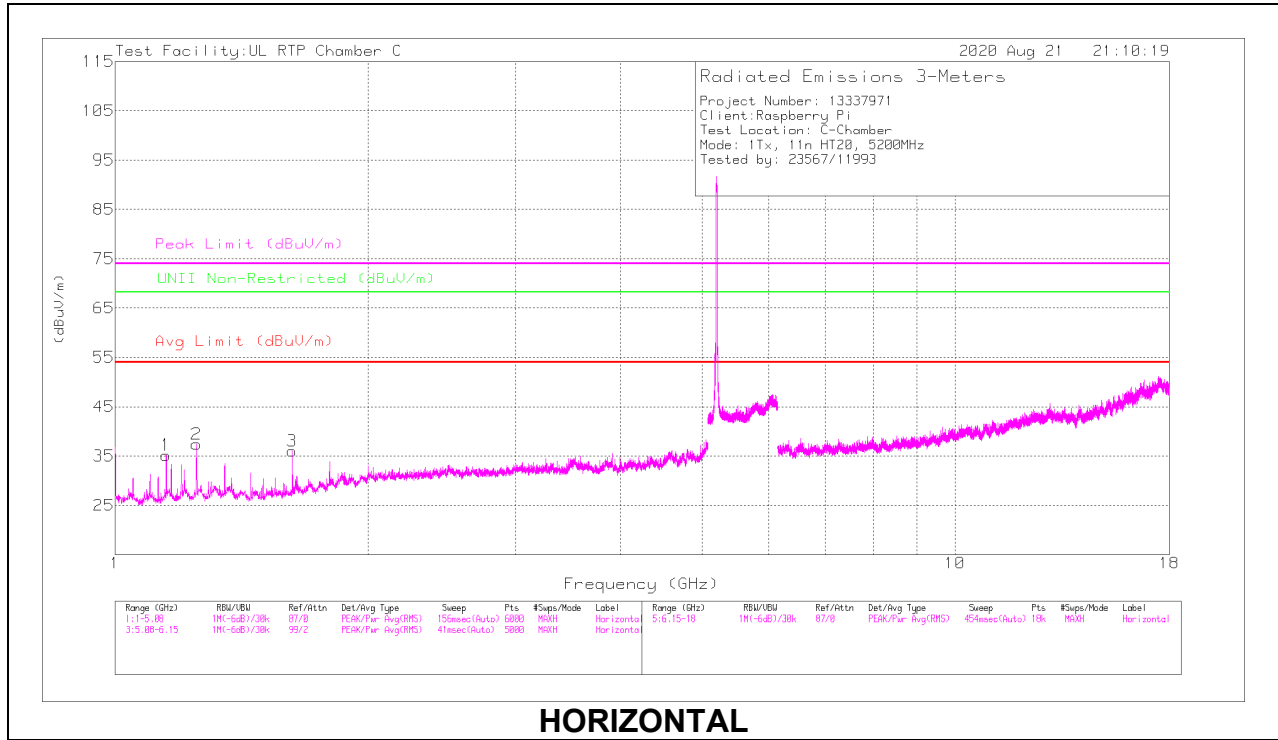
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL RESULTS



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	*** 1.15037	67.08	PK-U	27.4	-54.9	39.58	-	-	74	-34.42	-	-	42	102	H
	*** 1.15005	60.43	ADV	27.4	-54.9	32.93	54	-21.07	-	-	-	-	42	102	H
2	* 1.25025	68.3	PK-U	28.6	-55.3	41.6	-	-	74	-32.4	-	-	21	223	H
	* 1.24998	63.02	ADV	28.6	-55.3	36.32	54	-17.68	-	-	-	-	21	223	H
3	*** 1.62488	65.4	PK-U	28.5	-54.1	39.8	-	-	74	-34.2	-	-	210	252	H
	*** 1.62488	58.86	ADV	28.5	-54.1	33.26	54	-20.74	-	-	-	-	210	252	H
4	*** 1.14975	66.28	PK-U	27.4	-54.9	38.78	-	-	74	-35.22	-	-	272	102	V
	*** 1.14998	58.78	ADV	27.4	-54.9	31.28	54	-22.72	-	-	-	-	272	102	V
5	* 1.24988	65.81	PK-U	28.6	-55.3	39.11	-	-	74	-34.89	-	-	313	102	V
	* 1.25004	58.83	ADV	28.6	-55.3	32.13	54	-21.87	-	-	-	-	313	102	V
6	*** 1.62525	63.72	PK-U	28.5	-54.1	38.12	-	-	74	-35.88	-	-	223	102	V
	*** 1.62488	56.22	ADV	28.5	-54.1	30.62	54	-23.38	-	-	-	-	223	102	V
7	3.46663	58.81	PK-U	33.1	-50.6	41.31	-	-	-	-	68.2	-26.89	215	102	V

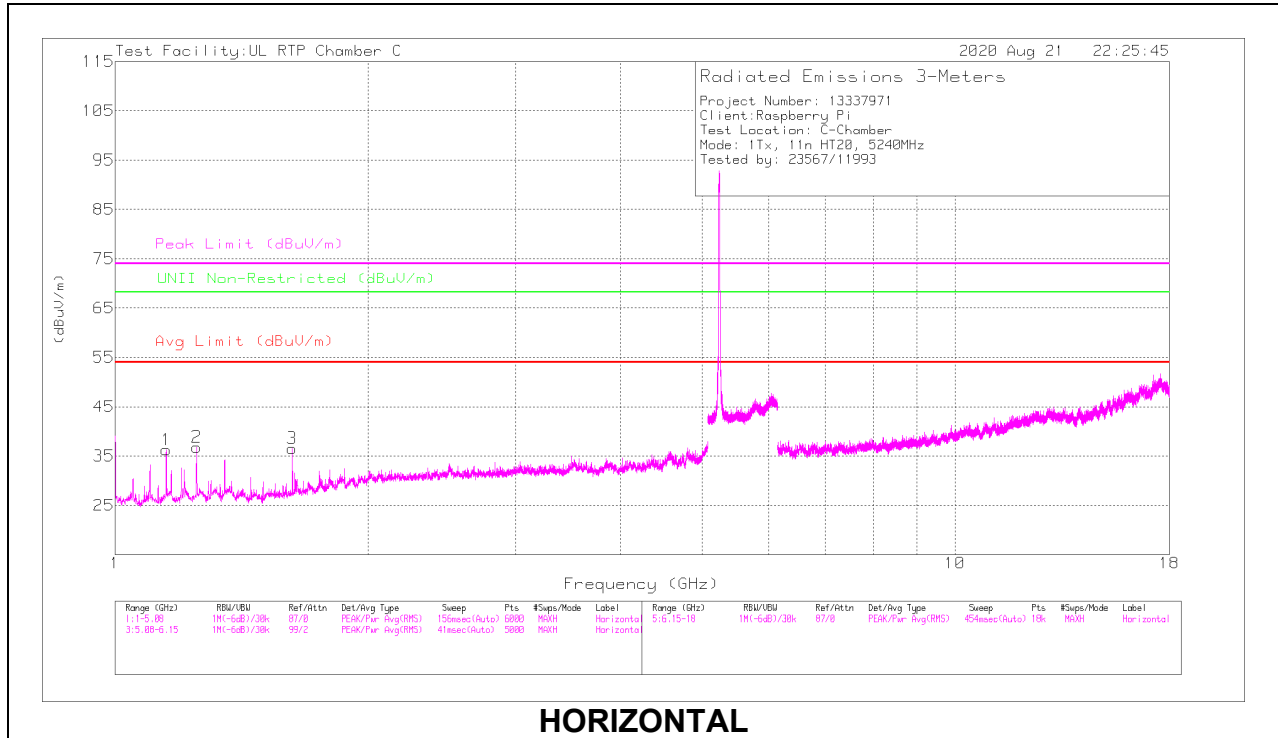
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

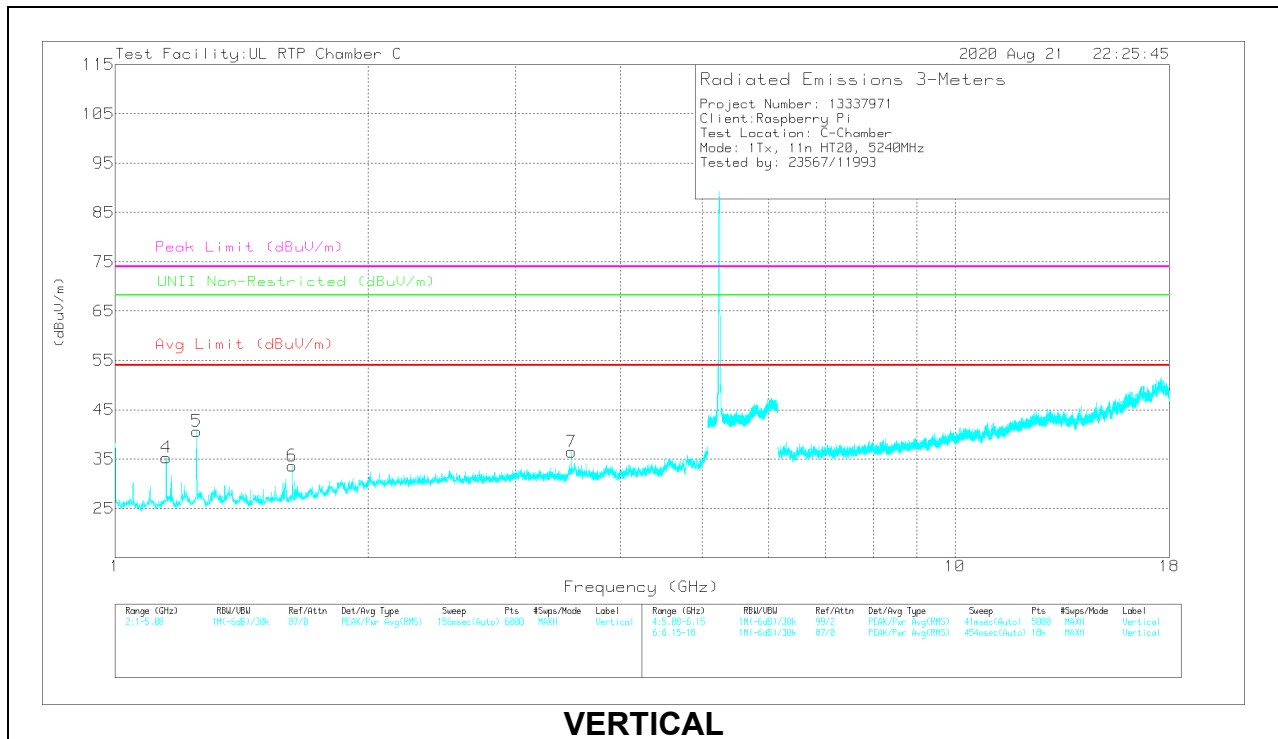
PK-U - Maximum Peak

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	*** 1.15004	67.25	PK-U	27.4	-54.9	39.75	-	-	74	-34.25	-	-	37	148	H
	*** 1.14999	62.06	ADV	27.4	-54.9	34.56	54	-19.44	-	-	-	-	37	148	H
2	* 1.25016	68.24	PK-U	28.6	-55.3	41.54	-	-	74	-32.46	-	-	164	178	H
	* 1.25001	62.51	ADV	28.6	-55.3	35.81	54	-18.19	-	-	-	-	164	178	H
3	*** 1.62488	66.26	PK-U	28.5	-54.1	40.66	-	-	74	-33.34	-	-	206	203	H
	*** 1.62488	60.43	ADV	28.5	-54.1	34.83	54	-19.17	-	-	-	-	206	203	H
4	*** 1.15023	66.35	PK-U	27.4	-54.9	38.85	-	-	74	-35.15	-	-	242	102	V
	*** 1.15006	60.63	ADV	27.4	-54.9	33.13	54	-20.87	-	-	-	-	242	102	V
5	* 1.24999	69.64	PK-U	28.6	-55.3	42.94	-	-	74	-31.06	-	-	234	102	V
	* 1.25008	65.51	ADV	28.6	-55.3	38.81	54	-15.19	-	-	-	-	234	102	V
6	*** 1.62525	62.03	PK-U	28.5	-54.1	36.43	-	-	74	-37.57	-	-	216	102	V
	*** 1.62488	54.17	ADV	28.5	-54.1	28.57	54	-25.43	-	-	-	-	216	102	V
7	3.49339	58.36	PK-U	33.7	-49.9	42.16	-	-	-	-	68.2	-26.04	208	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

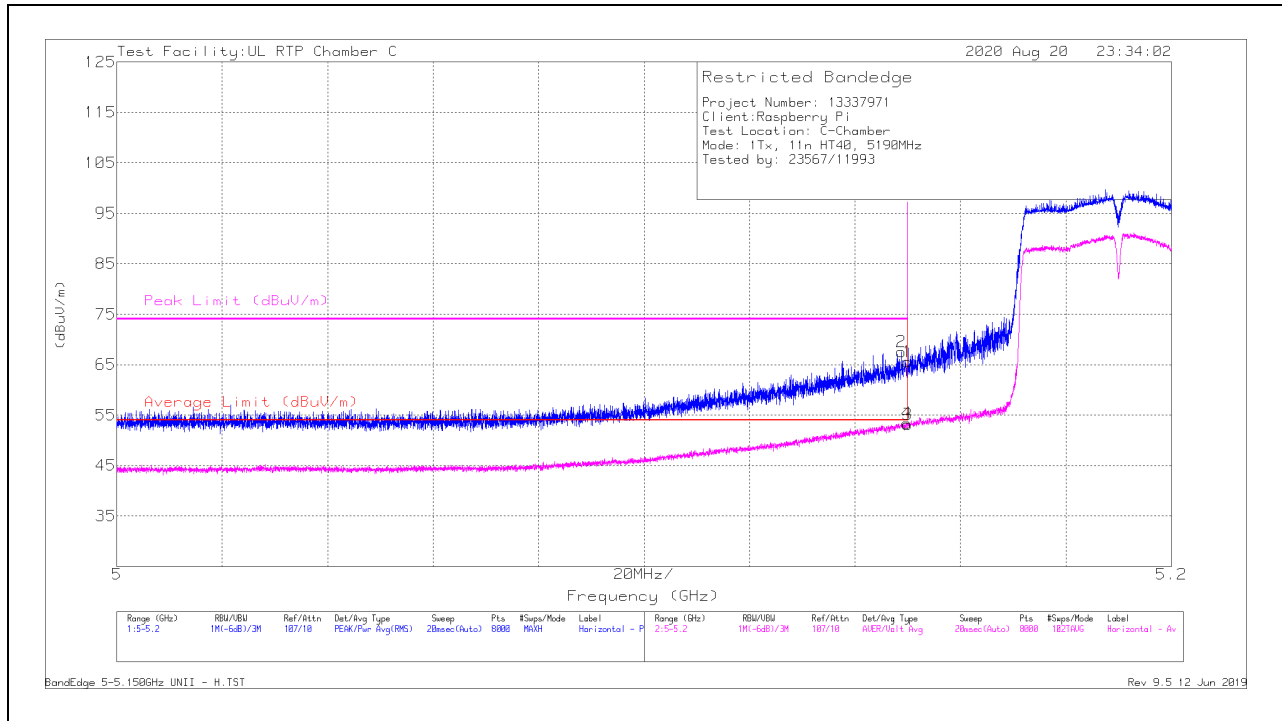
ADV - Linear Voltage Average

9.1.3. 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	47.19	Pk	34.2	-15.8	0	65.59	-	-	74	-8.41	168	308	H
2	*** 5.14879	49.14	Pk	34.2	-15.8	0	67.54	-	-	74	-6.46	168	308	H
3	*** 5.14999	34.57	ADV	34.2	-15.8	.22	53.19	54	-81	-	-	168	308	H
4	*** 5.14989	34.82	ADV	34.2	-15.8	.22	53.44	54	-56	-	-	168	308	H

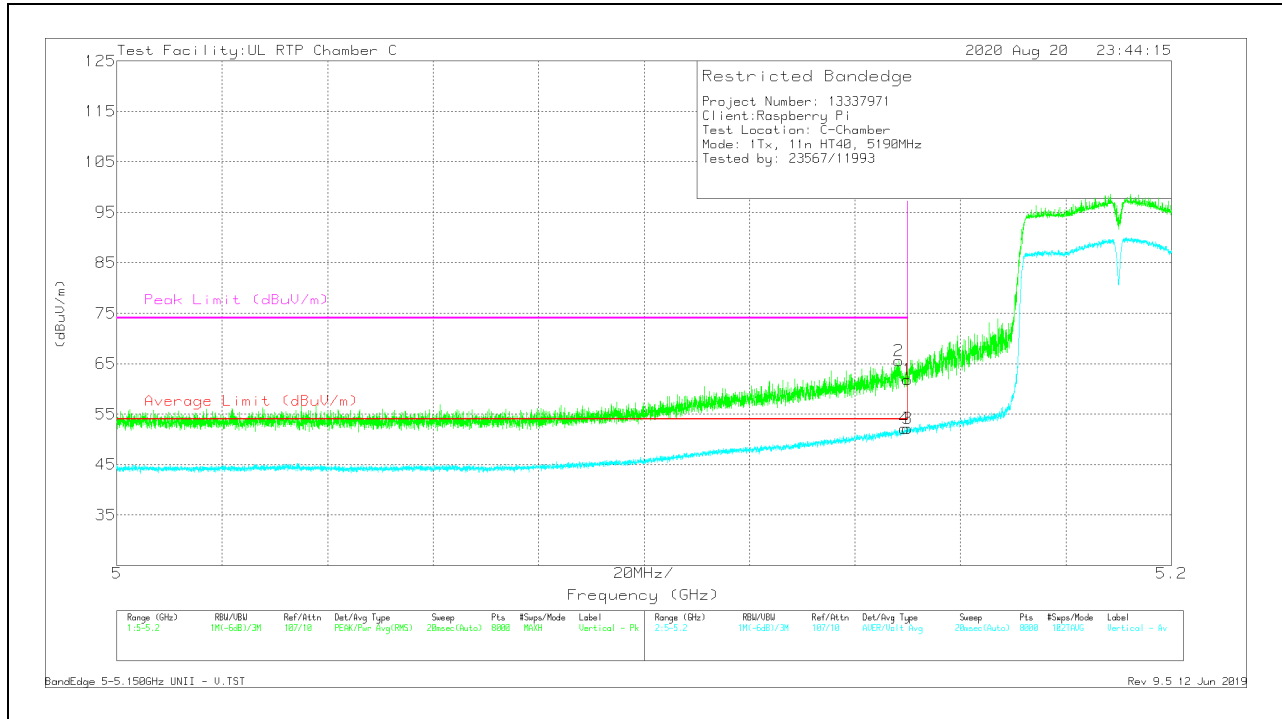
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

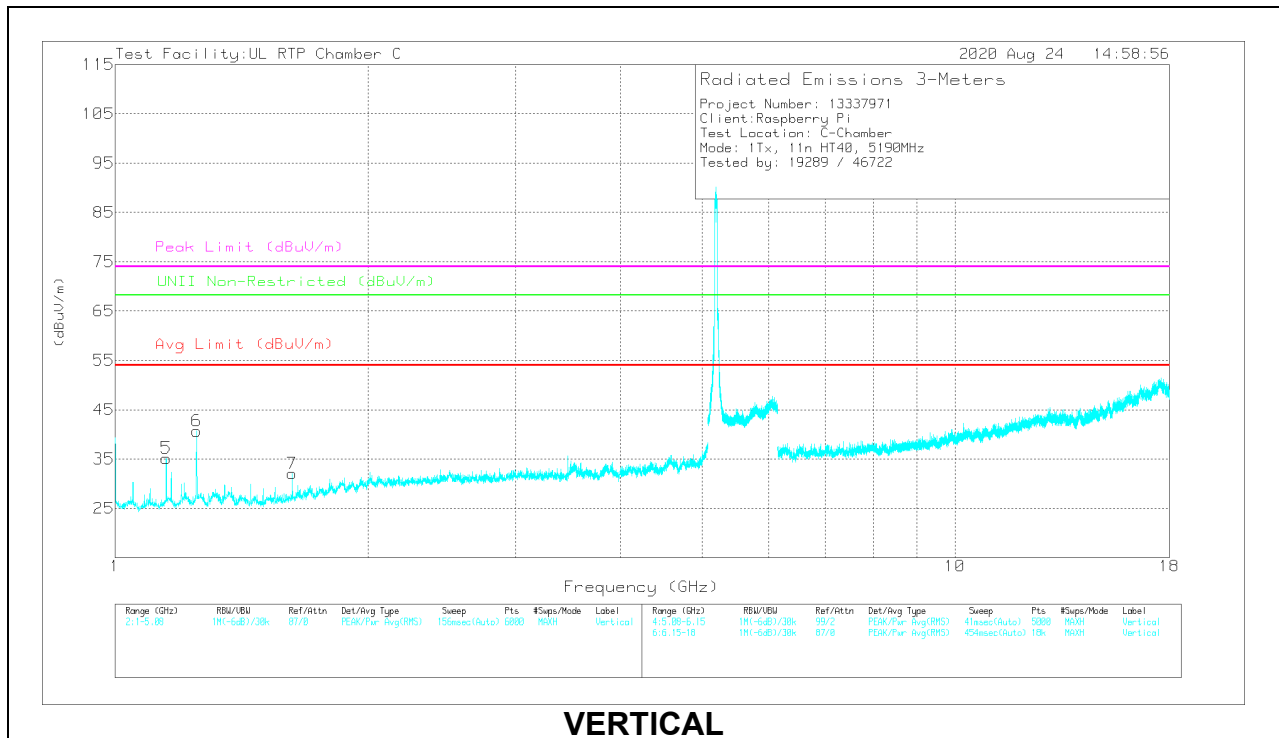
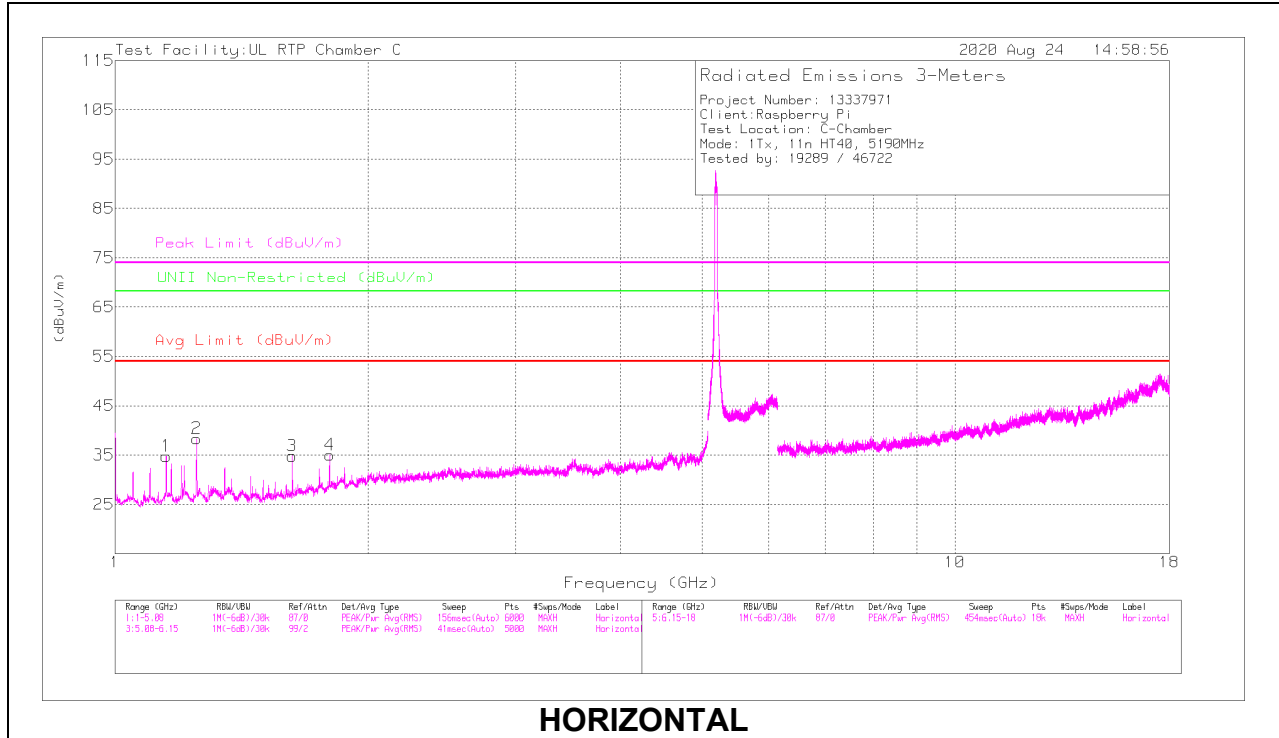


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	43.42	Pk	34.2	-15.8	0	61.82	-	-	74	-12.18	212	398	V
2	*** 5.14832	47.18	Pk	34.2	-15.8	0	65.58	-	-	74	-8.42	212	398	V
3	*** 5.14999	33.55	ADV	34.2	-15.8	.22	52.17	54	-1.83	-	-	212	398	V
4	*** 5.14932	33.51	ADV	34.2	-15.8	.22	52.13	54	-1.87	-	-	212	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



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	* ** 1.14985	67.09	PK-U	27.4	-54.9	0	39.59	-	-	74	-34.41	-	-	325	102	H
	* ** 1.15	60.52	ADV	27.4	-54.9	.23	33.25	54	-20.75	-	-	-	-	325	102	H
2	* 1.24999	68.79	PK-U	28.6	-55.3	0	42.09	-	-	74	-31.91	-	-	182	103	H
	* 1.25	63.01	ADV	28.6	-55.3	.23	36.54	54	-17.46	-	-	-	-	182	103	H
3	* ** 1.62504	64.8	PK-U	28.5	-54.1	0	39.2	-	-	74	-34.8	-	-	94	102	H
	* ** 1.62501	57.24	ADV	28.5	-54.1	.23	31.87	54	-22.13	-	-	-	-	94	102	H
5	* ** 1.15028	67.56	PK-U	27.4	-54.9	0	40.06	-	-	74	-33.94	-	-	240	103	V
	* ** 1.15001	61.35	ADV	27.4	-54.9	.23	34.08	54	-19.92	-	-	-	-	240	103	V
6	* 1.2502	70.01	PK-U	28.6	-55.3	0	43.31	-	-	74	-30.69	-	-	242	102	V
	* 1.25002	65.67	ADV	28.6	-55.3	.23	39.2	54	-14.8	-	-	-	-	242	102	V
7	* ** 1.62526	64.03	PK-U	28.5	-54.1	0	38.43	-	-	74	-35.57	-	-	232	103	V
	* ** 1.62506	55.23	ADV	28.5	-54.1	.23	29.86	54	-24.14	-	-	-	-	232	103	V
4	1.79991	64.73	PK-U	30.2	-54.2	0	40.73	-	-	-	-	68.2	-27.47	278	106	H

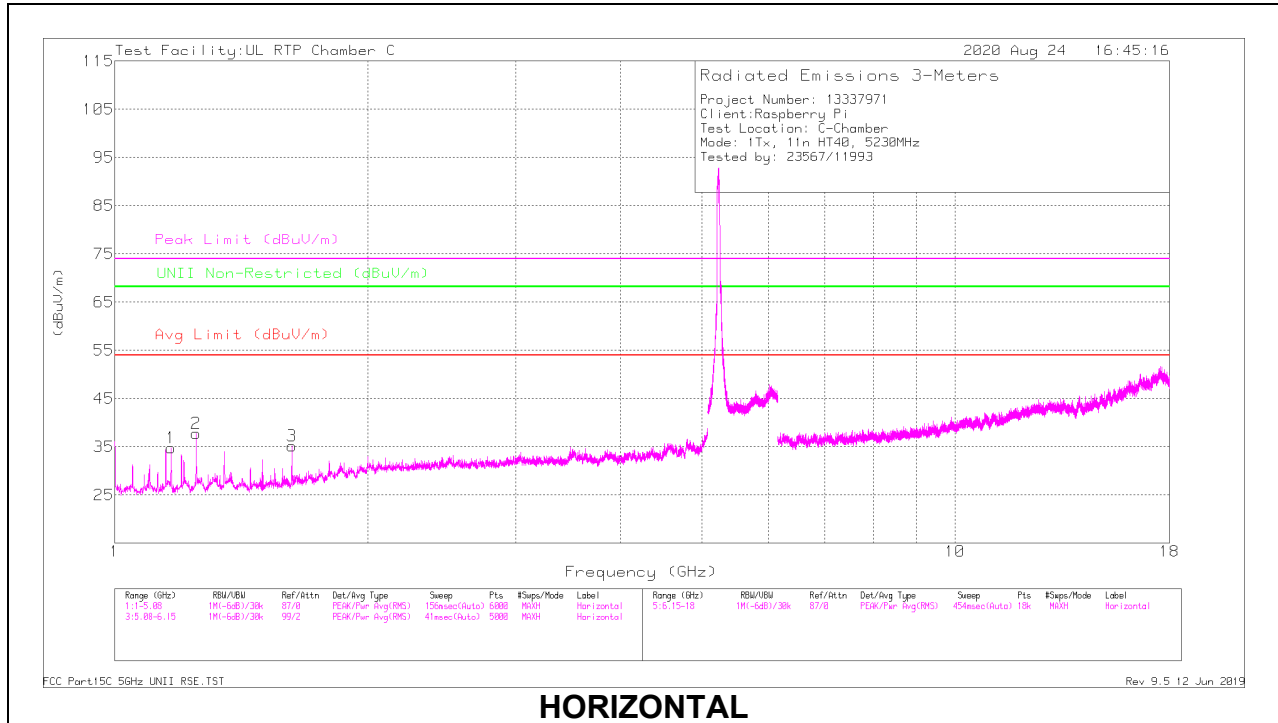
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

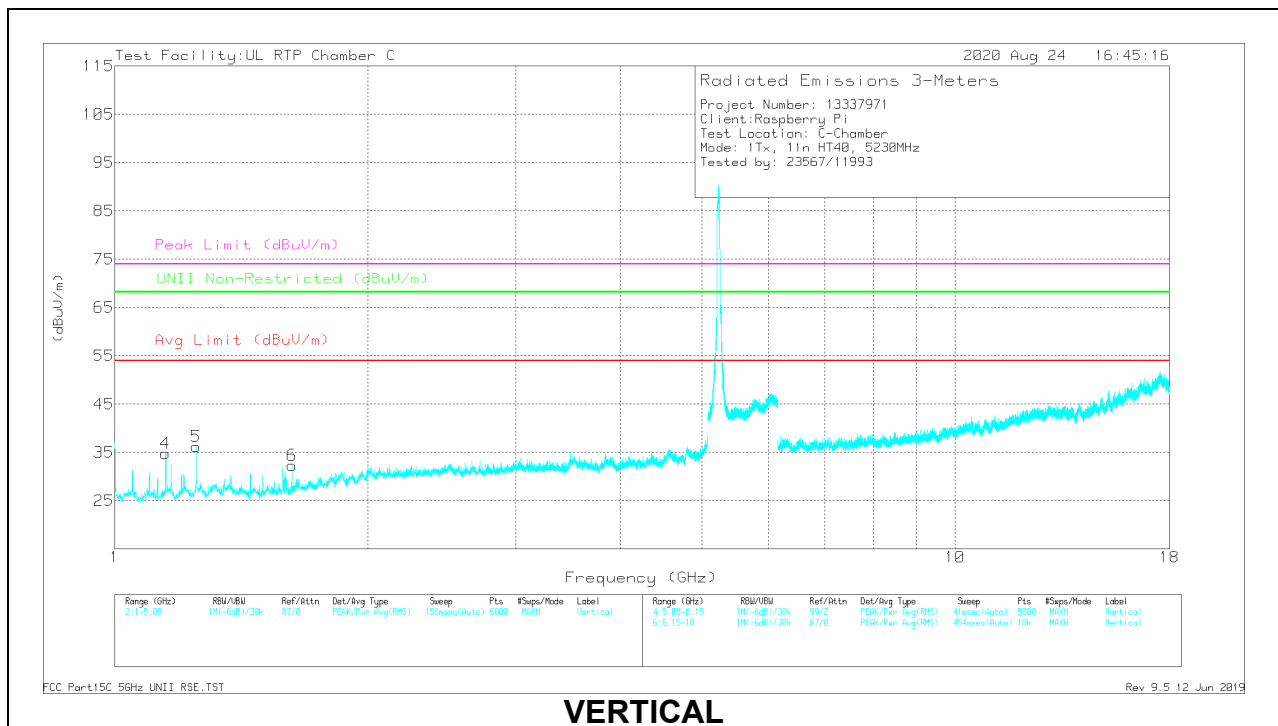
PK-U - Maximum Peak

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	* ** 1.16623	65.47	PK-U	27.7	-55	0	38.17	-	-	74	-35.83	-	-	13	102	H
	* ** 1.16667	58.88	ADV	27.7	-55	.23	31.81	54	-22.19	-	-	-	-	13	102	H
2	* 1.25001	68.47	PK-U	28.6	-55.3	0	41.77	-	-	74	-32.23	-	-	12	226	H
	* 1.25005	63.21	ADV	28.6	-55.3	.23	36.74	54	-17.26	-	-	-	-	12	226	H
3	* ** 1.6245	65.19	PK-U	28.4	-54.2	0	39.39	-	-	74	-34.61	-	-	202	108	H
	* ** 1.62488	58.53	ADV	28.5	-54.1	.23	33.16	54	-20.84	-	-	-	-	202	108	H
4	* ** 1.15025	66.22	PK-U	27.4	-54.9	0	38.72	-	-	74	-35.28	-	-	215	102	V
	* ** 1.15001	60	ADV	27.4	-54.9	.23	32.73	54	-21.27	-	-	-	-	215	102	V
5	* 1.25021	66.64	PK-U	28.6	-55.3	0	39.94	-	-	74	-34.06	-	-	304	103	V
	* 1.25004	59.8	ADV	28.6	-55.3	.23	33.33	54	-20.67	-	-	-	-	304	103	V
6	* ** 1.62525	65.46	PK-U	28.5	-54.1	0	39.86	-	-	74	-34.14	-	-	147	347	V
	* ** 1.62488	58.59	ADV	28.5	-54.1	.23	33.22	54	-20.78	-	-	-	-	147	347	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

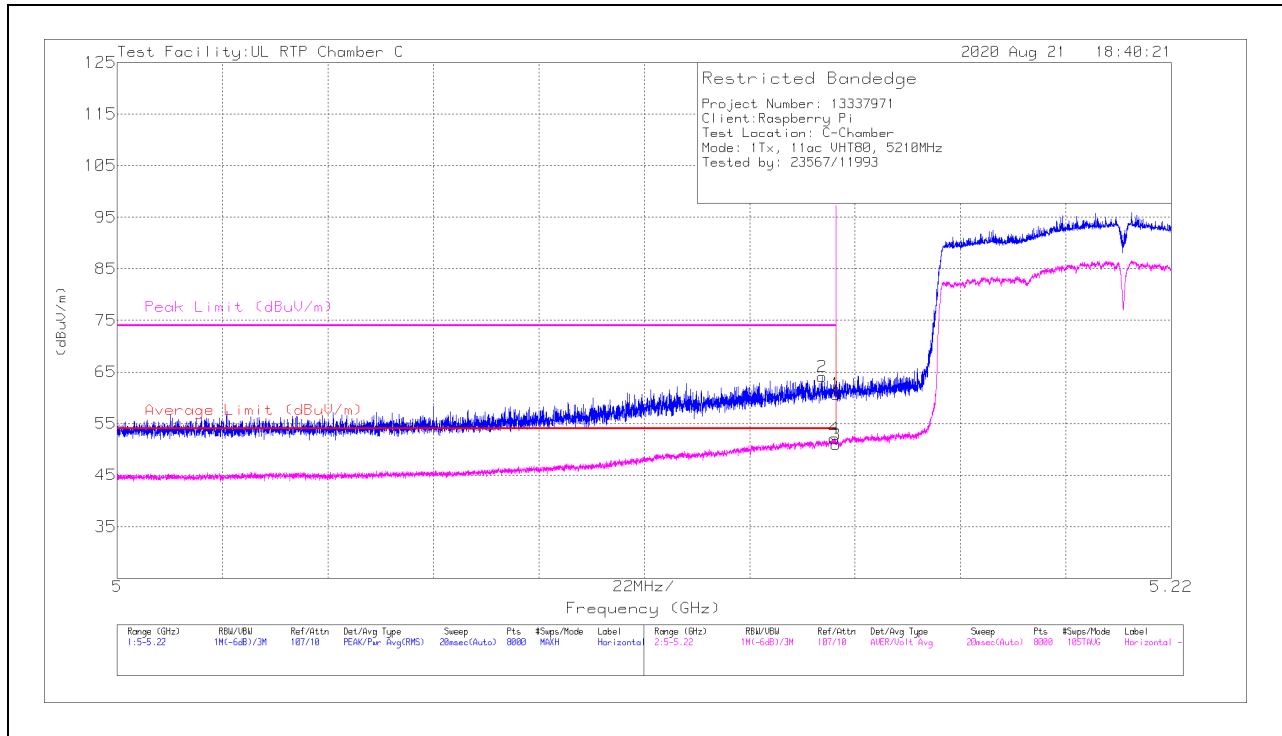
ADV - Linear Voltage Average

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	42.32	Pk	34.2	-15.8	0	60.72	-	-	74	-13.28	164	396	H
2	*** 5.14717	45.67	PK	34.2	-15.8	0	64.07	-	-	74	-9.93	164	396	H
3	*** 5.14997	32.09	ADV	34.2	-15.8	.42	50.91	54	-3.09	-	-	164	396	H
4	*** 5.1497	33.3	ADV	34.2	-15.8	.42	52.12	54	-1.88	-	-	164	396	H

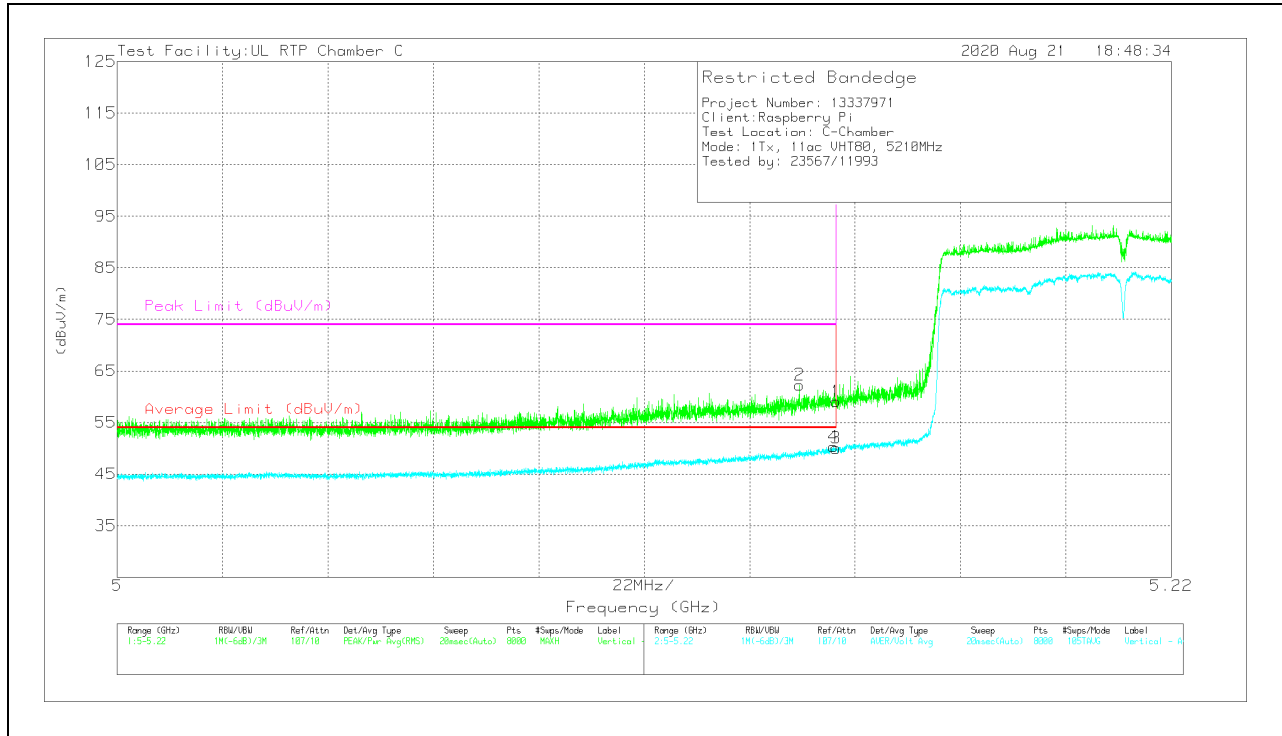
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

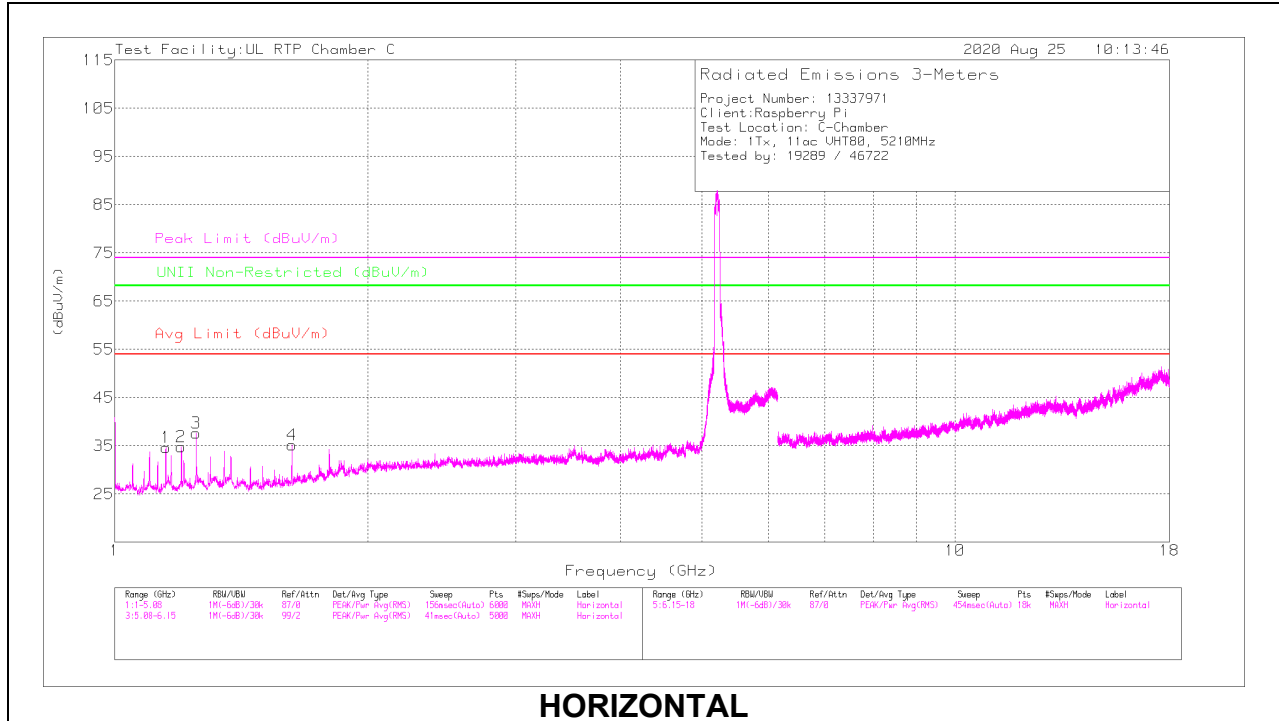


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14997	40.68	Pk	34.2	-15.8	0	59.08	-	-	74	-14.92	239	394	V
2	*** 5.14238	43.87	Pk	34.2	-15.8	0	62.27	-	-	74	-11.73	239	394	V
3	*** 5.14997	31.21	ADV	34.2	-15.8	.42	50.03	54	-3.97	-	-	239	394	V
4	*** 5.14953	31.49	ADV	34.2	-15.8	.42	50.31	54	-3.69	-	-	239	394	V

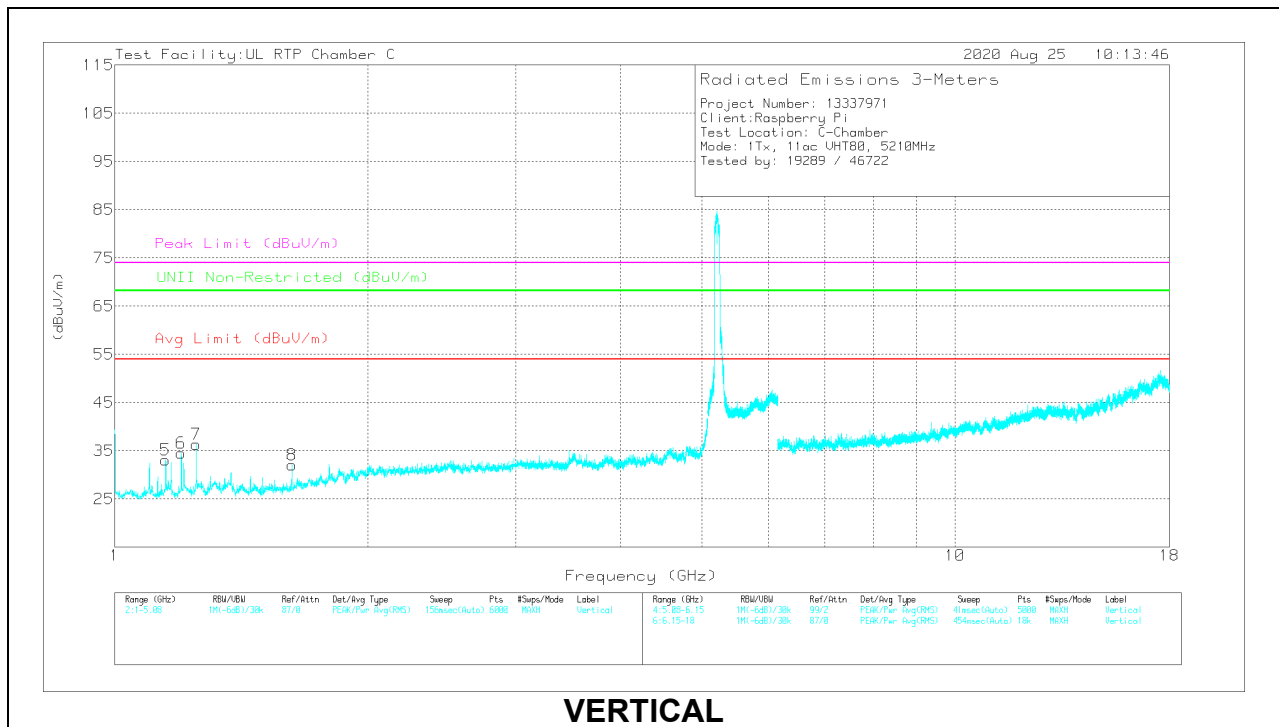
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	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	*** 1.15023	66.22	PK-U	27.4	-54.9	0	38.72	-	-	74	-35.28	-	-	29	102	H
	*** 1.15003	59.4	ADV	27.4	-54.9	.42	32.32	54	-21.68	-	-	-	-	29	102	H
2	*** 1.20019	65.51	PK-U	28.1	-55.2	0	38.41	-	-	74	-35.59	-	-	360	102	H
	*** 1.20003	57.62	ADV	28.1	-55.2	.42	30.94	54	-23.06	-	-	-	-	360	102	H
3	* 1.25009	67.98	PK-U	28.6	-55.3	0	41.28	-	-	74	-32.72	-	-	358	104	H
	* 1.25004	62.28	ADV	28.6	-55.3	.42	36	54	-18	-	-	-	-	358	104	H
4	*** 1.62485	65.31	PK-U	28.5	-54.1	0	39.71	-	-	74	-34.29	-	-	97	133	H
	*** 1.62505	58.38	ADV	28.5	-54.1	.42	33.2	54	-20.8	-	-	-	-	97	133	H
5	*** 1.14989	65.91	PK-U	27.4	-54.9	0	38.41	-	-	74	-35.59	-	-	237	102	V
	*** 1.15001	58.96	ADV	27.4	-54.9	.42	31.88	54	-22.12	-	-	-	-	237	102	V
6	*** 1.20002	66.43	PK-U	28.1	-55.2	0	39.33	-	-	74	-34.67	-	-	244	102	V
	** 1.2	58.76	ADV	28.1	-55.2	.42	32.08	54	-21.92	-	-	-	-	244	102	V
7	* 1.25029	67.06	PK-U	28.6	-55.3	0	40.36	-	-	74	-33.64	-	-	232	102	V
	* 1.25001	60.9	ADV	28.6	-55.3	.42	34.62	54	-19.38	-	-	-	-	232	102	V
8	*** 1.62473	63.59	PK-U	28.5	-54.1	0	37.99	-	-	74	-36.01	-	-	232	102	V
	*** 1.62501	54.28	ADV	28.5	-54.1	.42	29.1	54	-24.9	-	-	-	-	232	102	V

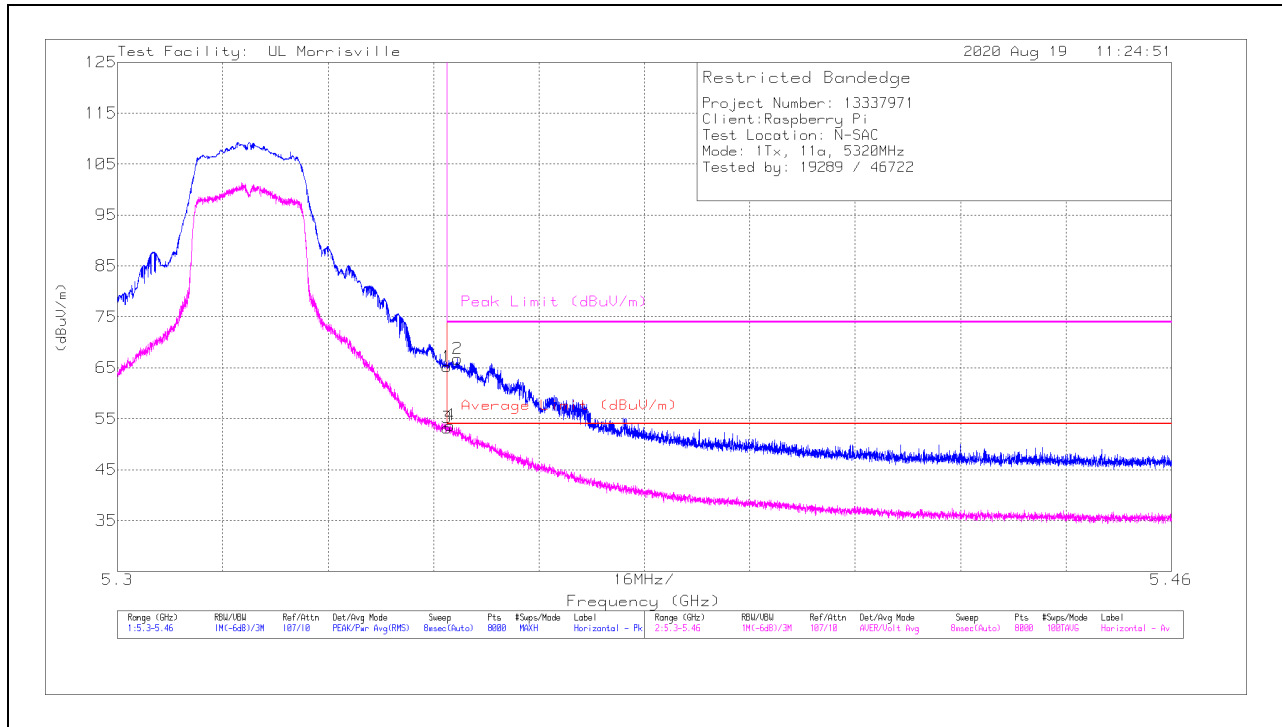
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

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	AT0072 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	53.92	Pk	34.4	-23.1	65.22	-	-	74	-8.78	104	231	H
2	*** 5.35163	55.57	Pk	34.4	-23.2	66.77	-	-	74	-7.23	104	231	H
3	*** 5.35001	41.93	ADV	34.4	-23.1	53.23	54	-0.77	-	-	104	231	H
4	*** 5.35047	42.52	ADV	34.4	-23.2	53.72	54	-0.28	-	-	104	231	H

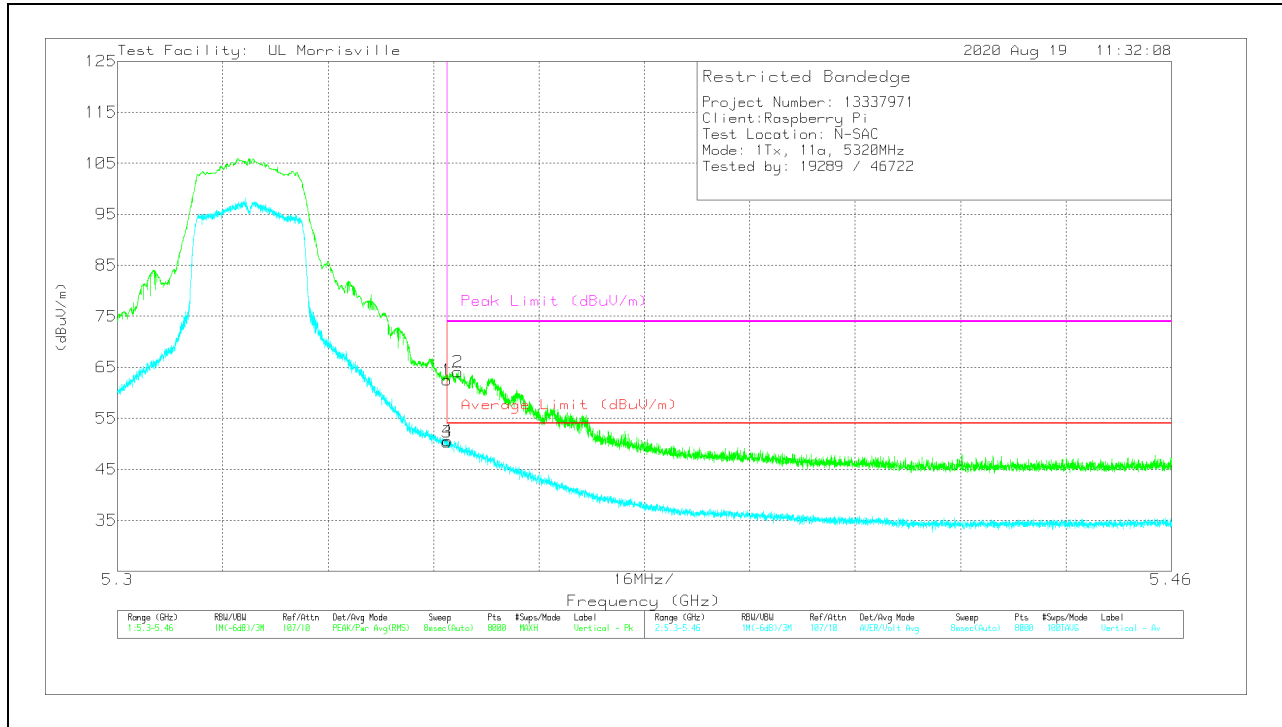
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

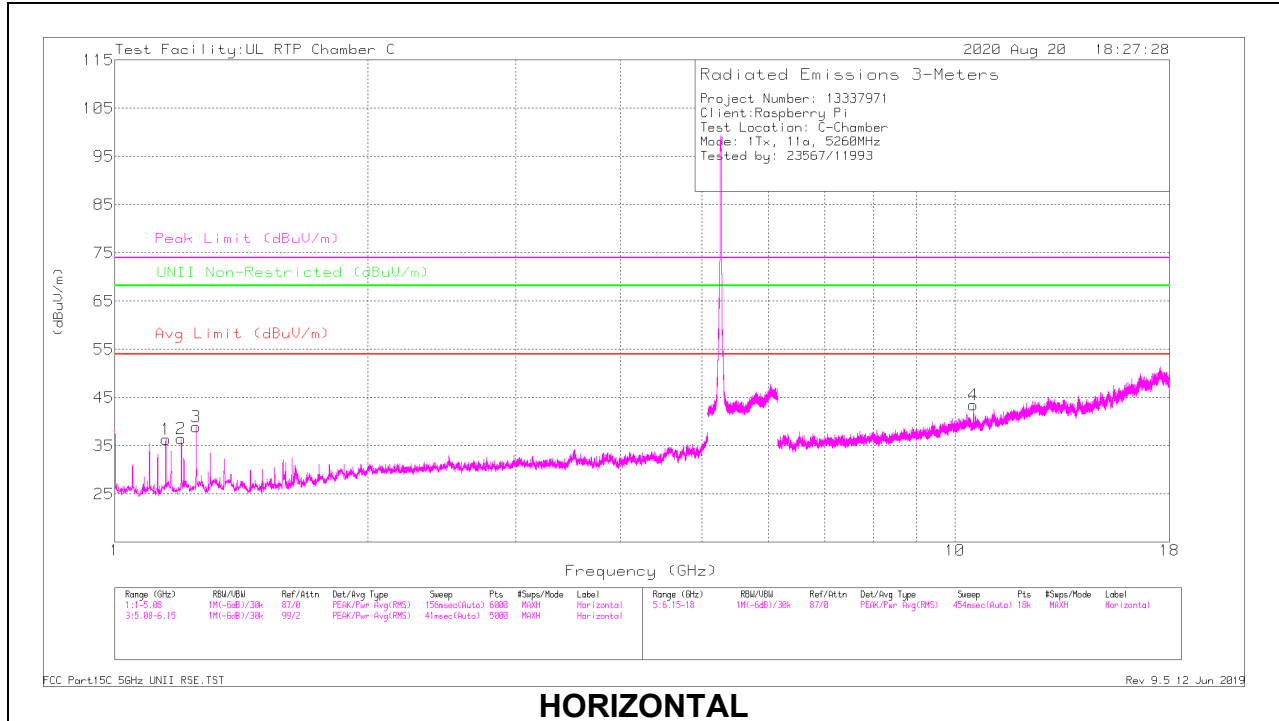


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	51.18	Pk	34.4	-23.1	62.48	-	-	74	-11.52	161	382	V
2	*** 5.35169	52.88	Pk	34.4	-23.2	64.08	-	-	74	-9.92	161	382	V
3	*** 5.35001	39.04	ADV	34.4	-23.1	50.34	54	-3.66	-	-	161	382	V
4	*** 5.35015	39.25	ADV	34.4	-23.1	50.55	54	-3.45	-	-	161	382	V

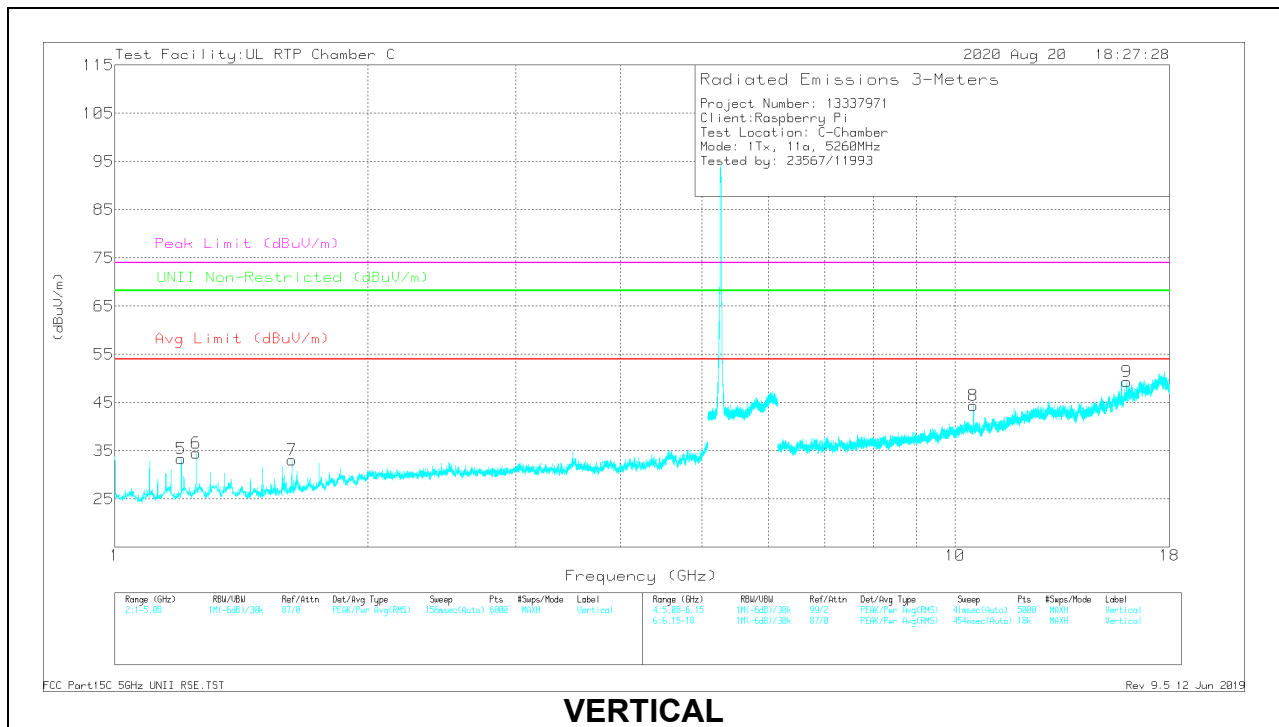
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

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	*** 1.14967	67.06	PK-U	27.4	-54.9	39.56	-	-	74	-34.44	-	-	176	102	H
	*** 1.15001	61.6	ADV	27.4	-54.9	34.1	54	-19.9	-	-	-	-	176	102	H
2	*** 1.19984	67.45	PK-U	28.1	-55.2	40.35	-	-	74	-33.65	-	-	184	102	H
	*** 1.20002	61.72	ADV	28.1	-55.2	34.62	54	-19.38	-	-	-	-	184	102	H
3	* 1.25013	68.46	PK-U	28.6	-55.3	41.76	-	-	74	-32.24	-	-	192	102	H
	* 1.24999	63.16	ADV	28.6	-55.3	36.46	54	-17.54	-	-	-	-	192	102	H
5	*** 1.19995	65.68	PK-U	28.1	-55.2	38.58	-	-	74	-35.42	-	-	320	103	V
	*** 1.20006	59.3	ADV	28.1	-55.2	32.2	54	-21.8	-	-	-	-	320	103	V
6	* 1.24999	67.02	PK-U	28.6	-55.3	40.32	-	-	74	-33.68	-	-	319	102	V
	* 1.25004	60.49	ADV	28.6	-55.3	33.79	54	-20.21	-	-	-	-	319	102	V
7	*** 1.62525	65.18	PK-U	28.5	-54.1	39.58	-	-	74	-34.42	-	-	171	293	V
	*** 1.62488	58.48	ADV	28.5	-54.1	32.88	54	-21.12	-	-	-	-	171	293	V
9	*** 16.02258	50.08	PK-U	41.2	-36.7	54.58	-	-	74	-19.42	-	-	1	324	V
	*** 16.02252	37.04	ADV	41.2	-36.7	41.54	54	-12.46	-	-	-	-	1	324	V
4	10.51568	57.69	PK-U	37.4	-43.3	51.79	-	-	-	-	68.2	-16.41	231	249	H
8	10.52283	64.04	PK-U	37.4	-43.6	57.84	-	-	-	-	68.2	-10.36	289	297	V

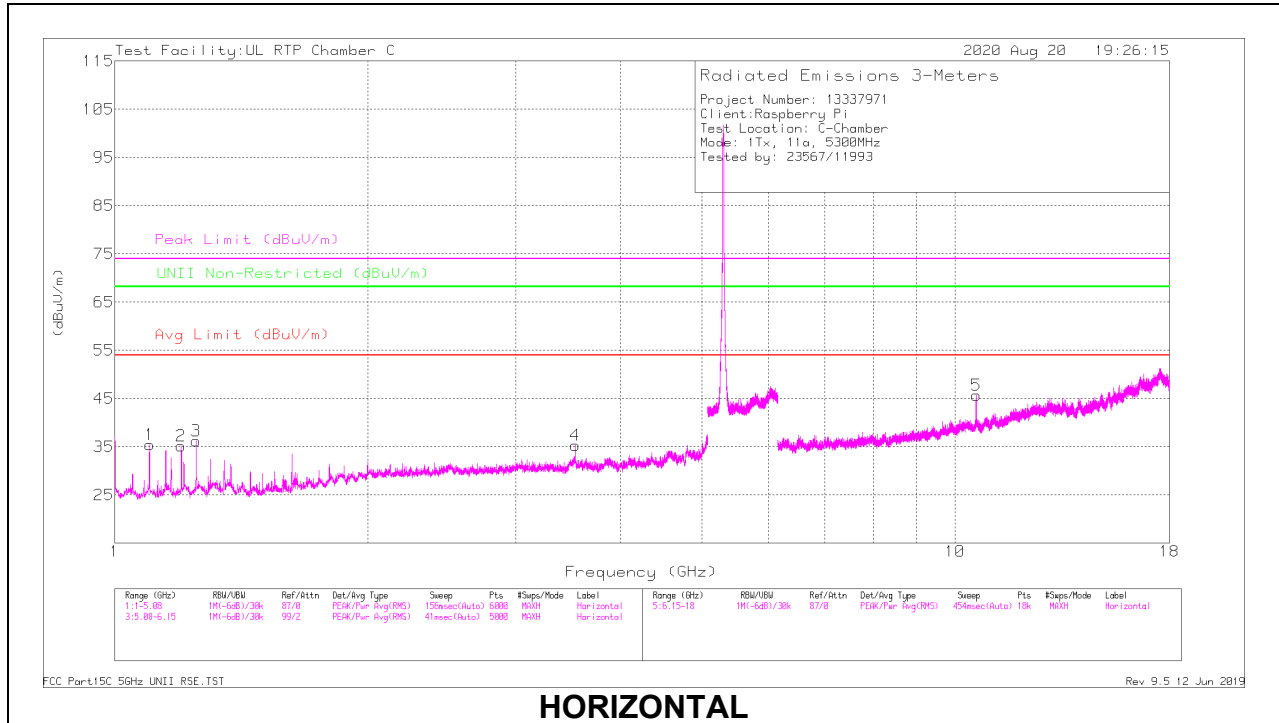
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

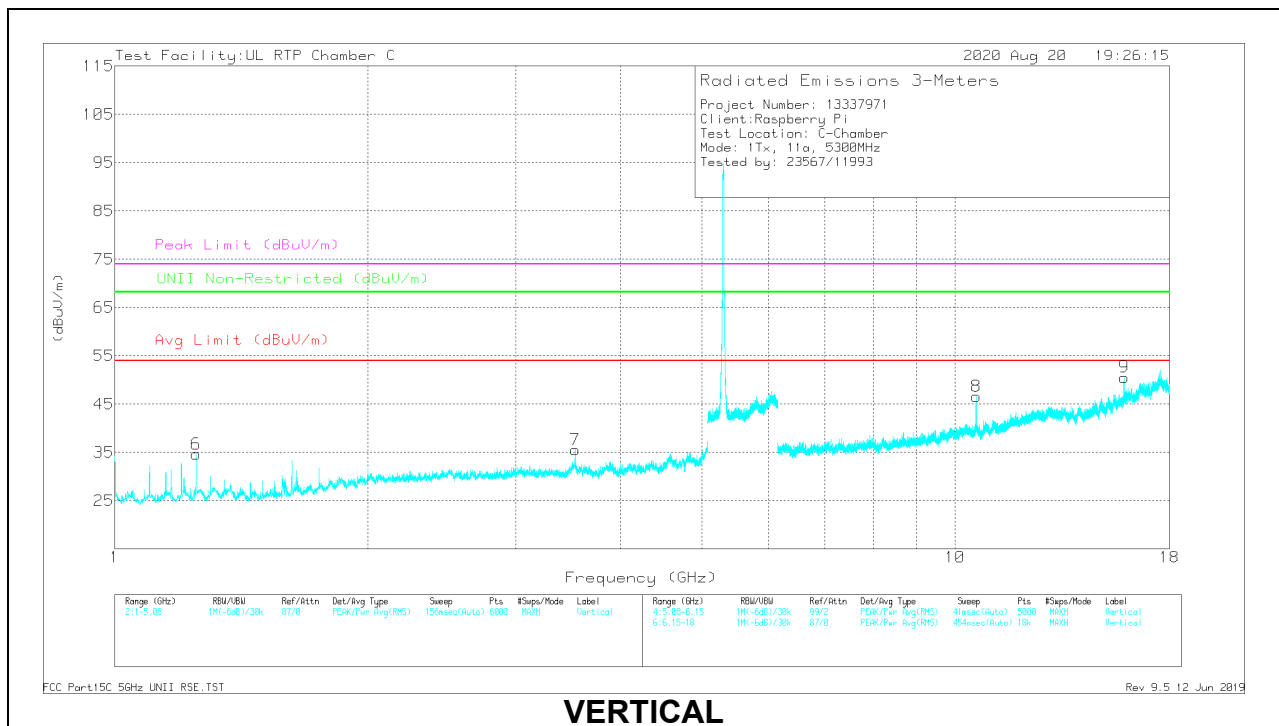
PK-U - Maximum Peak

ADV - Linear Voltage Average

MID CHANNEL RESULTS



HORIZONTAL



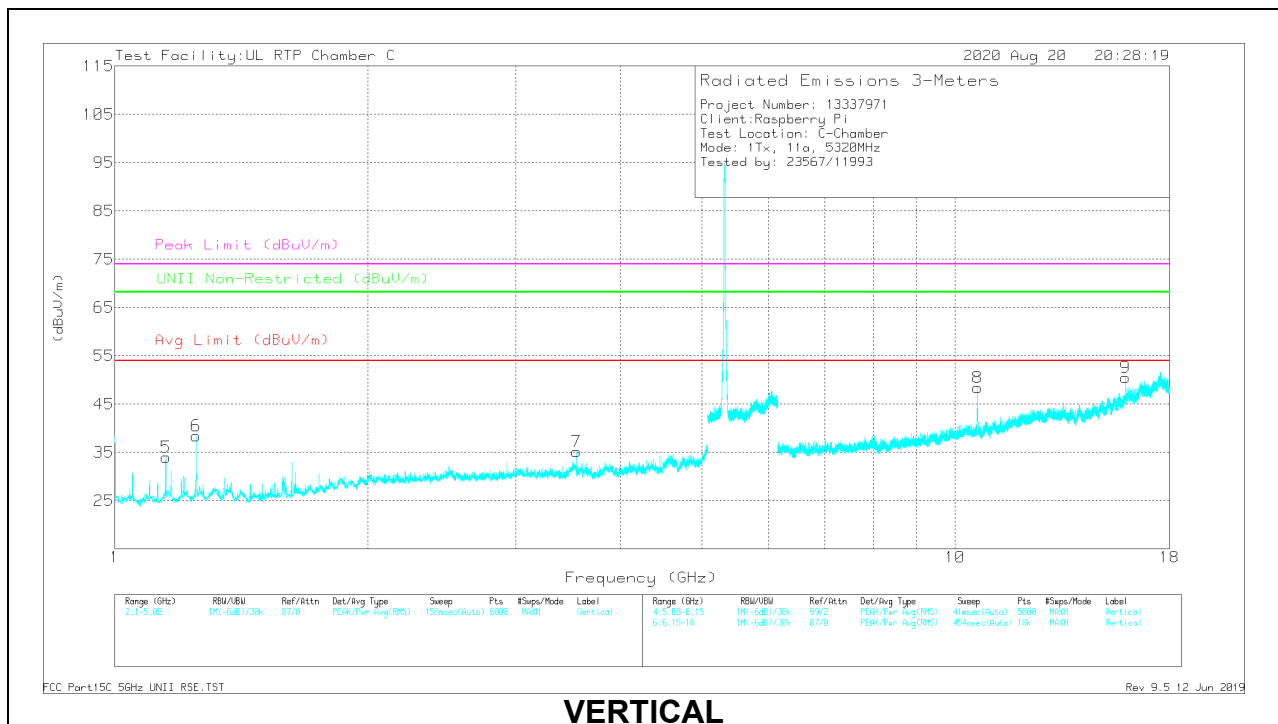
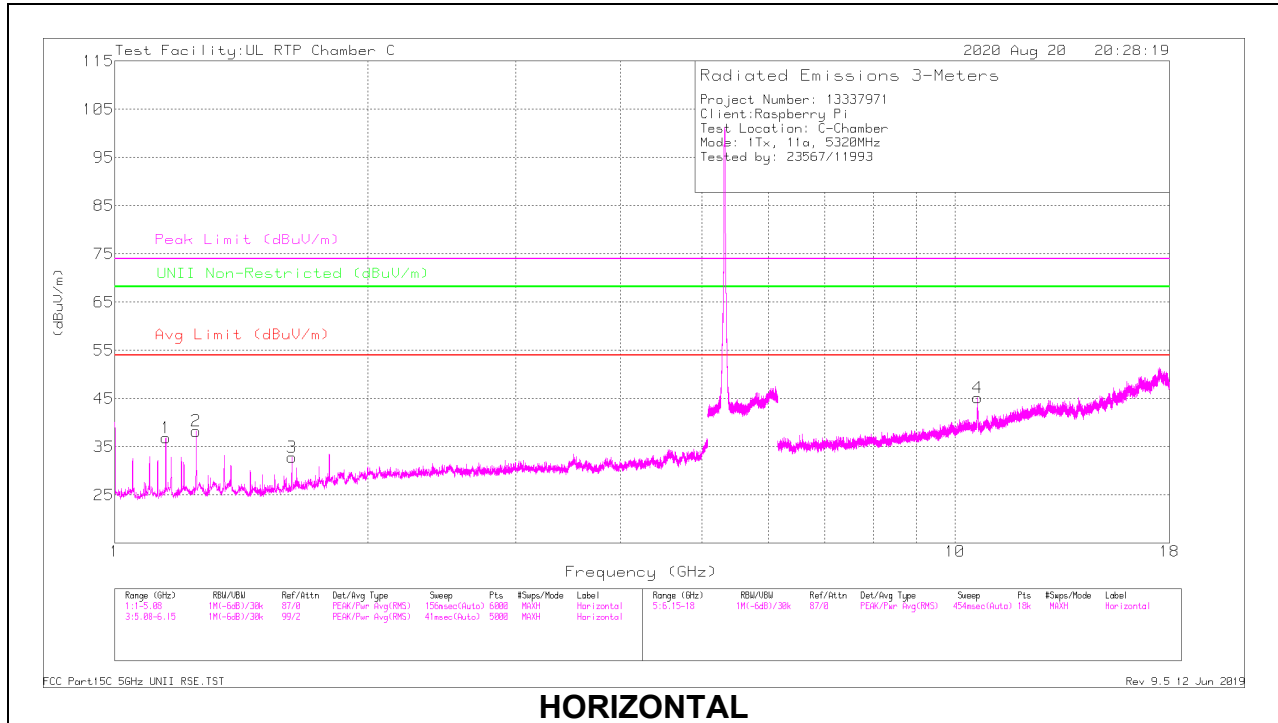
VERTICAL

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	*** 1.09997	68.23	PK-U	27.3	-55.3	40.23	-	-	74	-33.77	-	-	163	110	H
	*** 1.10001	62.75	ADV	27.3	-55.3	34.75	54	-19.25	-	-	-	-	163	110	H
2	*** 1.20004	66.38	PK-U	28.1	-55.2	39.28	-	-	74	-34.72	-	-	176	105	H
	*** 1.19999	60.51	ADV	28.1	-55.2	33.41	54	-20.59	-	-	-	-	176	105	H
3	* 1.24994	66.94	PK-U	28.6	-55.3	40.24	-	-	74	-33.76	-	-	180	103	H
	* 1.25	60.68	ADV	28.6	-55.3	33.98	54	-20.02	-	-	-	-	180	103	H
4	*** 3.53319	57.9	PK-U	33.5	-49.6	41.8	-	-	74	-32.2	-	-	132	102	H
	*** 3.53329	47.32	ADV	33.5	-49.6	31.22	54	-22.78	-	-	-	-	132	102	H
6	* 1.24997	65.33	PK-U	28.6	-55.3	38.63	-	-	74	-35.37	-	-	319	104	V
	* 1.25005	58.4	ADV	28.6	-55.3	31.7	54	-22.3	-	-	-	-	319	104	V
7	*** 3.53307	57.11	PK-U	33.5	-49.6	41.01	-	-	74	-32.99	-	-	180	102	V
	*** 3.5333	48.16	ADV	33.5	-49.6	32.06	54	-21.94	-	-	-	-	180	102	V
8	*** 10.60154	66.02	PK-U	37.5	-43.8	59.72	-	-	74	-14.28	-	-	286	297	V
	*** 10.60183	53.15	ADV	37.5	-43.8	46.85	54	-7.15	-	-	-	-	286	297	V
9	*** 15.90292	57.83	PK-U	41	-37.3	61.53	-	-	74	-12.47	-	-	203	250	V
	*** 15.90234	42.78	ADV	41	-37.3	46.48	54	-7.52	-	-	-	-	203	250	V
5	10.59566	61.62	PK-U	37.5	-43.7	55.42	-	-	-	-	68.2	-12.78	241	260	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



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	*** 1.14995	67.94	PK-U	27.4	-54.9	40.44	-	-	74	-33.56	-	-	170	102	H
	*** 1.15002	63.31	ADV	27.4	-54.9	35.81	54	-18.19	-	-	-	-	170	102	H
2	* 1.25005	70.05	PK-U	28.6	-55.3	43.35	-	-	74	-30.65	-	-	159	176	H
	* 1.25003	65.06	ADV	28.6	-55.3	38.36	54	-15.64	-	-	-	-	159	176	H
3	*** 1.62488	64.51	PK-U	28.5	-54.1	38.91	-	-	74	-35.09	-	-	93	136	H
	*** 1.62488	58.21	ADV	28.5	-54.1	32.61	54	-21.39	-	-	-	-	93	136	H
5	*** 1.15002	66.8	PK-U	27.4	-54.9	39.3	-	-	74	-34.7	-	-	89	189	V
	*** 1.14999	60.79	ADV	27.4	-54.9	33.29	54	-20.71	-	-	-	-	89	189	V
6	* 1.25012	68.65	PK-U	28.6	-55.3	41.95	-	-	74	-32.05	-	-	243	181	V
	* 1.25002	63.97	ADV	28.6	-55.3	37.27	54	-16.73	-	-	-	-	243	181	V
7	*** 3.54685	56.77	PK-U	33.4	-50.4	39.77	-	-	74	-34.23	-	-	182	103	V
	*** 3.54663	47.5	ADV	33.4	-50.4	30.5	54	-23.5	-	-	-	-	182	103	V
4	*** 10.6393	62.04	PK-U	37.5	-43.2	56.34	-	-	74	-17.66	-	-	239	254	H
	*** 10.6398	48.54	ADV	37.5	-43.2	42.84	54	-11.16	-	-	-	-	239	254	H
8	*** 10.63582	66.02	PK-U	37.5	-43.3	60.22	-	-	74	-13.78	-	-	286	292	V
	*** 10.63596	52.87	ADV	37.5	-43.3	47.07	54	-6.93	-	-	-	-	286	292	V
9	*** 15.96136	56.98	PK-U	41.1	-37.9	60.18	-	-	74	-13.82	-	-	200	225	V
	*** 15.96054	43.16	ADV	41.1	-37.9	46.36	54	-7.64	-	-	-	-	200	225	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

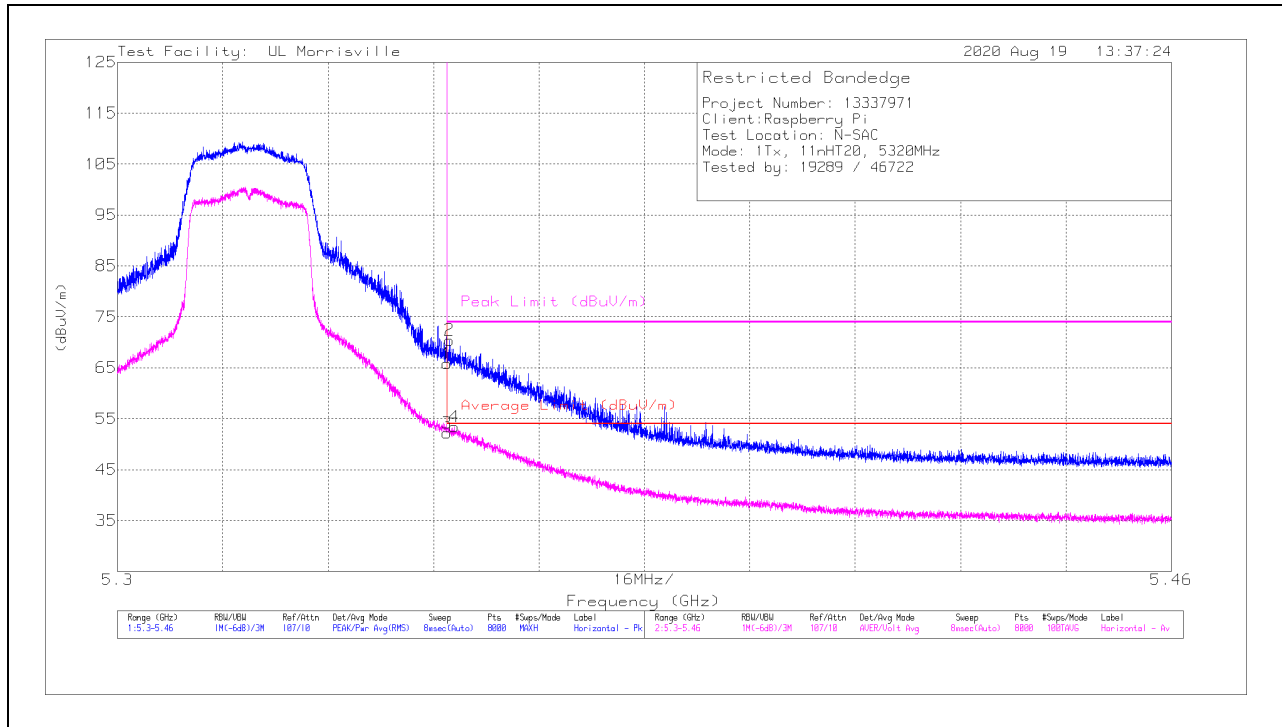
ADV - Linear Voltage Average

9.1.6. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 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	54.52	Pk	34.4	-23.1	65.82	-	-	74	-8.18	102	230	H
2	* ** 5.35037	59.23	Pk	34.4	-23.2	70.43	-	-	74	-3.57	102	230	H
3	* ** 5.35001	40.88	ADV	34.4	-23.1	52.18	54	-1.82	-	-	102	229	H
4	* ** 5.35115	42.19	ADV	34.4	-23.2	53.39	54	-61	-	-	102	229	H

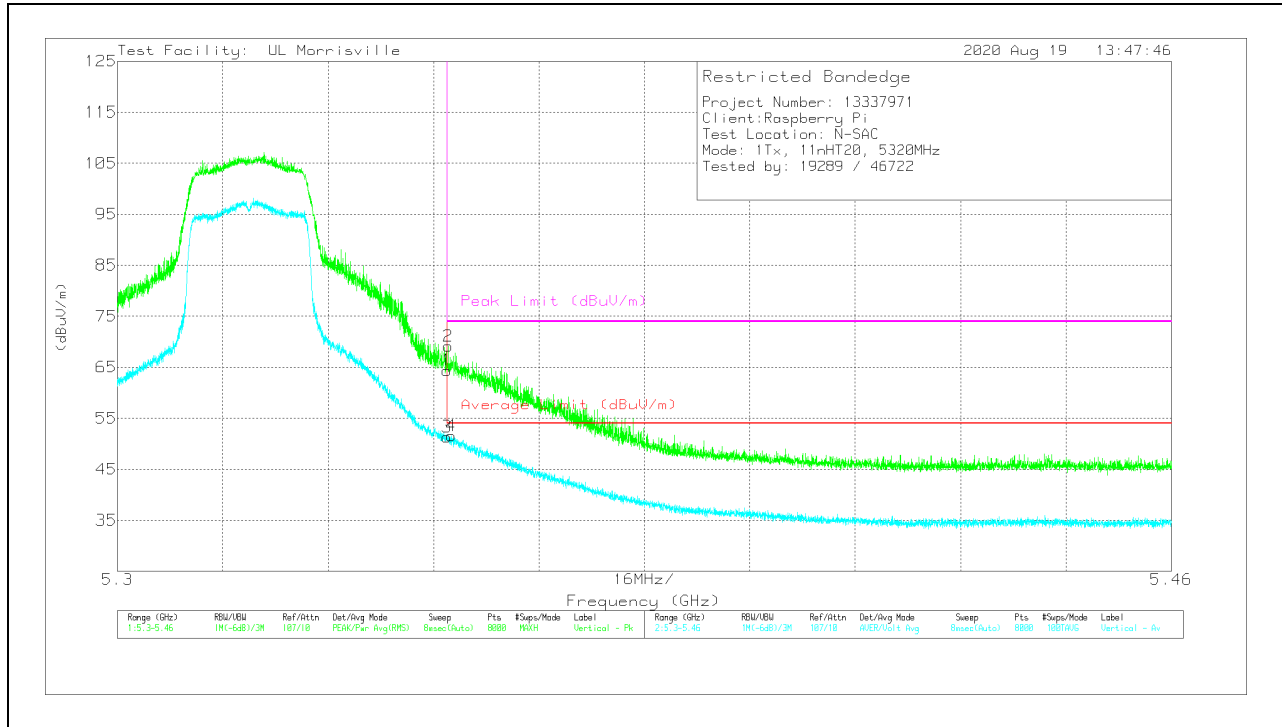
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

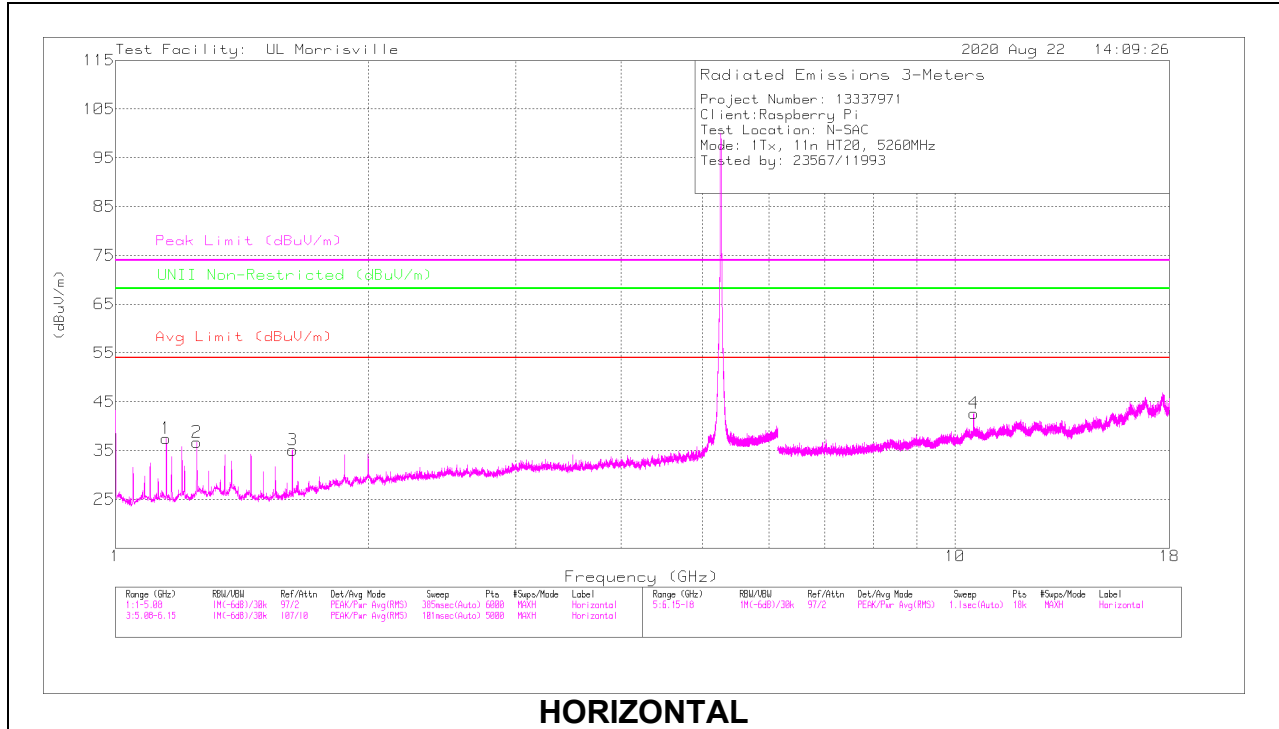


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	53.12	Pk	34.4	-23.1	64.42	-	-	74	-9.58	166	360	V
2	*** 5.35021	57.97	Pk	34.4	-23.2	69.17	-	-	74	-4.83	166	360	V
3	*** 5.35001	40.08	ADV	34.4	-23.1	51.38	54	-2.62	-	-	166	360	V
4	*** 5.35073	40.35	ADV	34.4	-23.2	51.55	54	-2.45	-	-	166	360	V

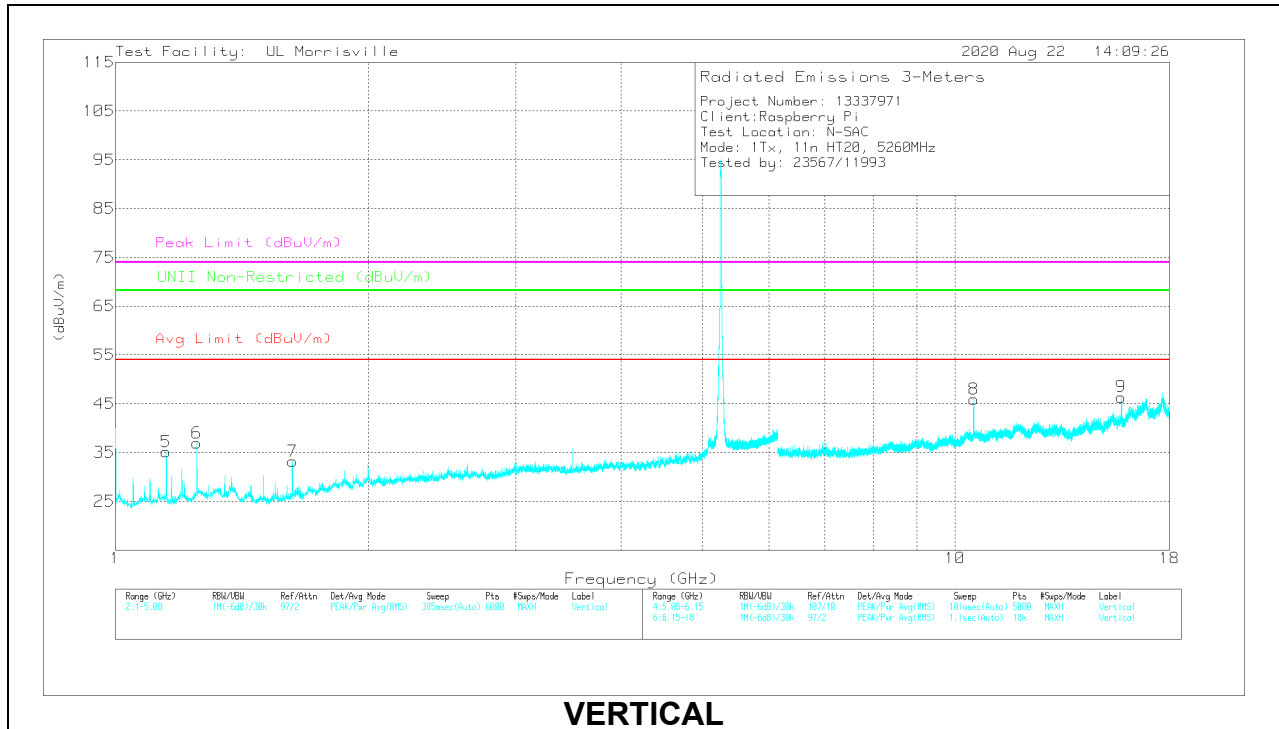
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



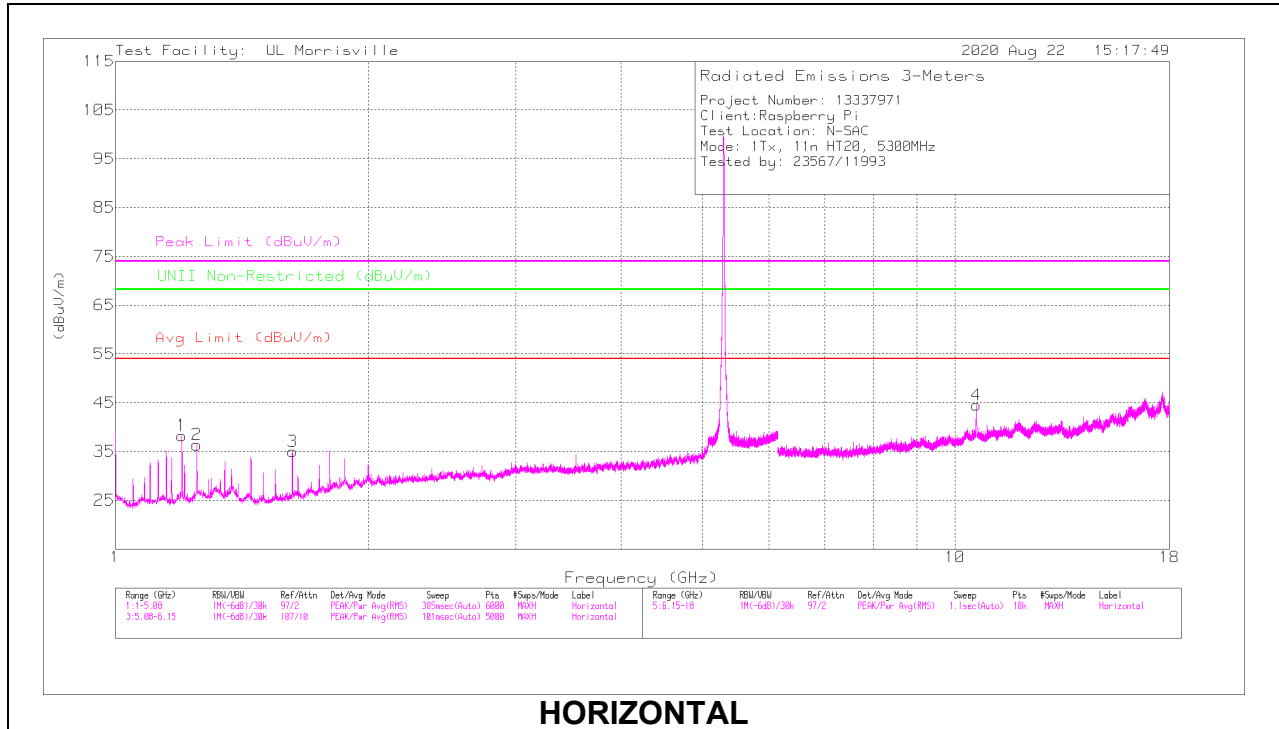
VERTICAL

RADIATED EMISSIONS

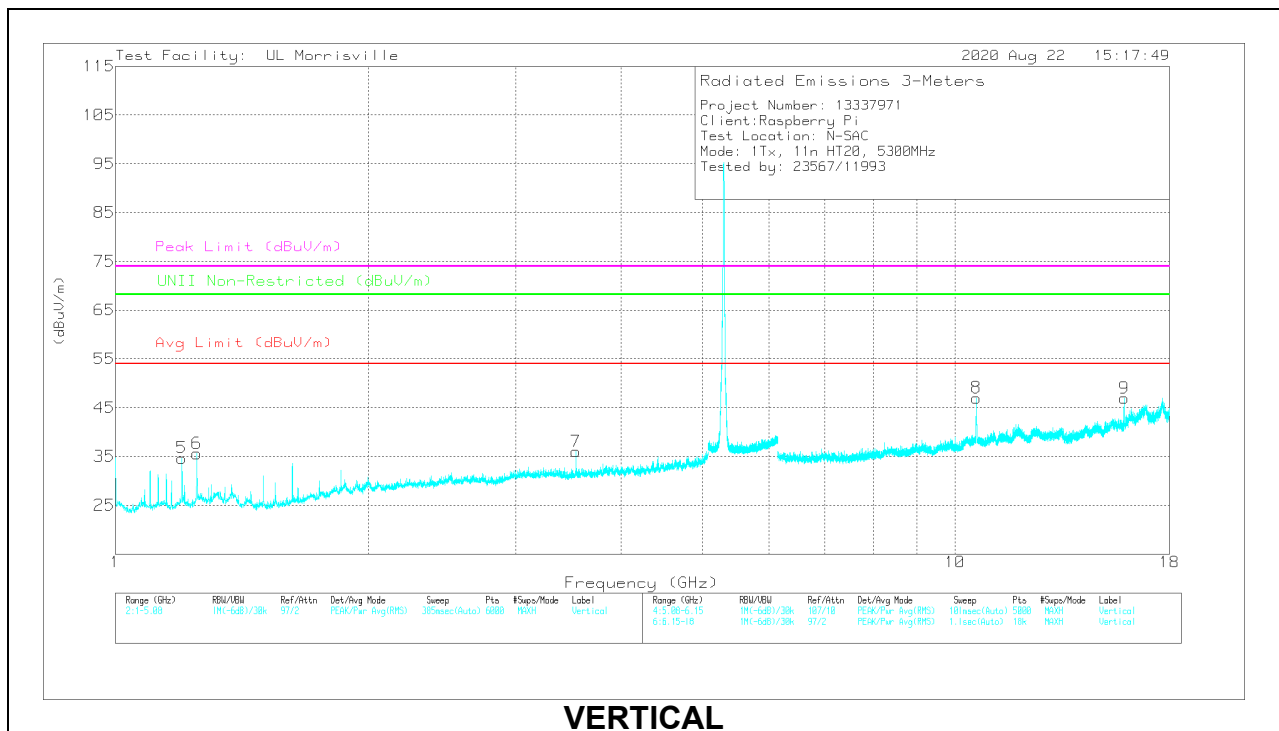
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.15022	50.57	PK-U	28.1	-37	41.67	-	-	74	-32.33	-	-	333	206	H
	*** 1.15001	45.32	ADV	28.1	-37	36.42	54	-17.58	-	-	-	-	333	206	H
2	* 1.2501	49.1	PK-U	29.1	-36.6	41.6	-	-	74	-32.4	-	-	302	136	H
	* 1.25005	42.03	ADV	29.1	-36.6	34.53	54	-19.47	-	-	-	-	302	136	H
3	*** 1.62553	47.75	PK-U	28.2	-35.4	40.55	-	-	74	-33.45	-	-	153	344	H
	*** 1.62516	42.63	ADV	28.2	-35.4	35.43	54	-18.57	-	-	-	-	153	344	H
5	*** 1.14988	49.03	PK-U	28.1	-37	40.13	-	-	74	-33.87	-	-	272	101	V
	*** 1.14995	42.77	ADV	28.1	-37	33.87	54	-20.13	-	-	-	-	272	101	V
6	* 1.25018	49.64	PK-U	29.1	-36.6	42.14	-	-	74	-31.86	-	-	65	121	V
	* 1.24999	43.84	ADV	29.1	-36.6	36.34	54	-17.66	-	-	-	-	65	121	V
7	*** 1.62516	45.76	PK-U	28.2	-35.4	38.56	-	-	74	-35.44	-	-	197	195	V
	*** 1.62516	38.5	ADV	28.2	-35.4	31.3	54	-22.7	-	-	-	-	197	195	V
9	*** 15.77746	44.22	PK-U	40.1	-26.2	58.12	-	-	74	-15.88	-	-	145	233	V
	*** 15.77785	29.72	ADV	40.1	-26.2	43.62	54	-10.38	-	-	-	-	145	233	V
4	10.52146	43.62	PK-U	37.6	-27	54.22	-	-	-	-	68.2	-13.98	187	208	H
8	10.52264	48.67	PK-U	37.6	-27	59.27	-	-	-	-	68.2	-8.93	240	276	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



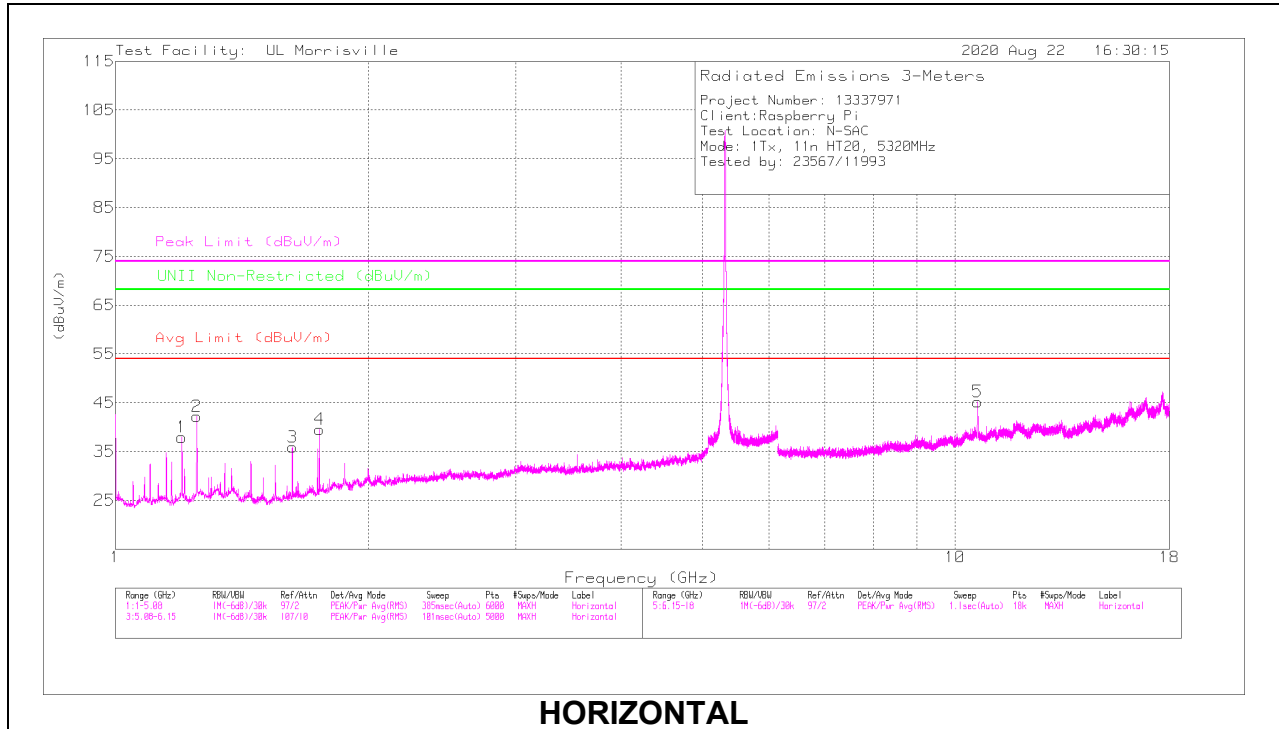
VERTICAL

RADIATED EMISSIONS

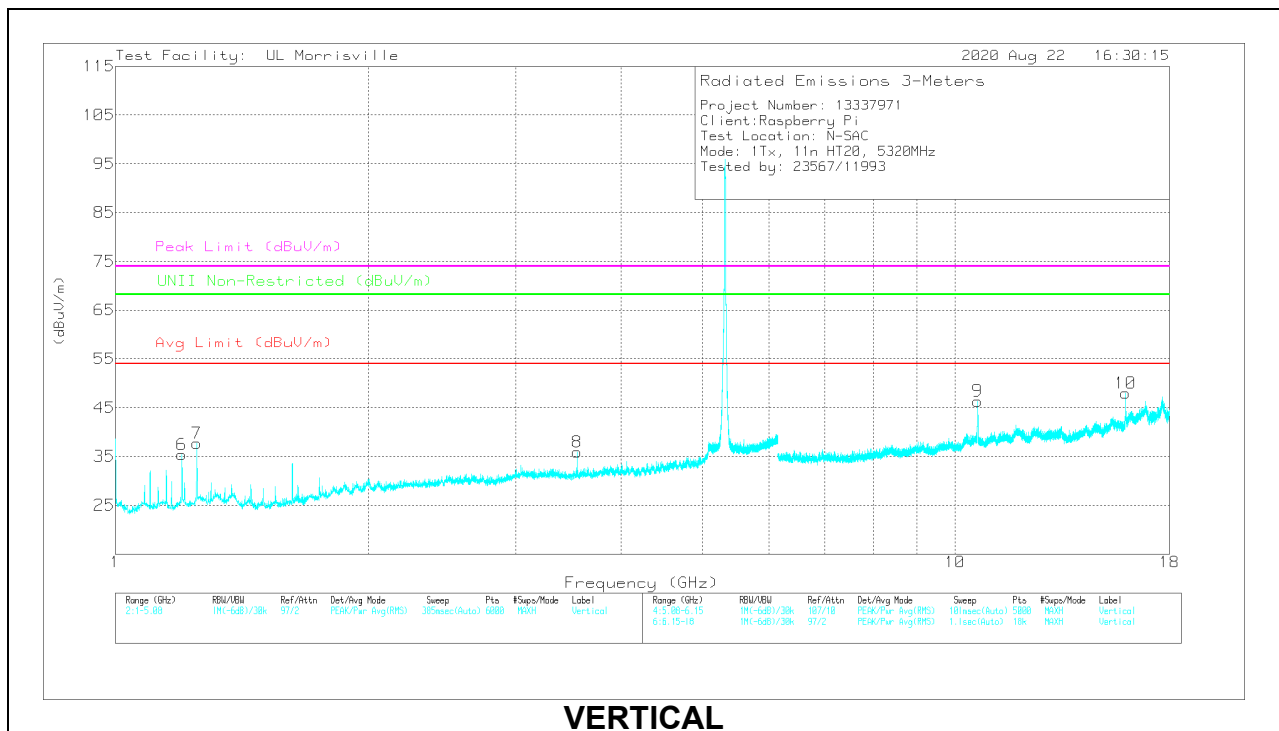
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.20029	50.94	PK-U	28.7	-36.9	42.74	-	-	74	-31.26	-	-	336	104	H
	*** 1.20003	45.77	ADV	28.7	-36.9	37.57	54	-16.43	-	-	-	-	336	104	H
2	* 1.25014	48.7	PK-U	29.1	-36.6	41.2	-	-	74	-32.8	-	-	142	307	H
	* 1.2499	41.63	ADV	29.1	-36.6	34.13	54	-19.87	-	-	-	-	142	307	H
3	*** 1.62553	48.1	PK-U	28.2	-35.4	40.9	-	-	74	-33.1	-	-	115	283	H
	*** 1.62516	42.04	ADV	28.2	-35.4	34.84	54	-19.16	-	-	-	-	115	283	H
5	*** 1.20043	48.95	PK-U	28.7	-36.9	40.75	-	-	74	-33.25	-	-	263	103	V
	*** 1.20004	42.81	ADV	28.7	-36.9	34.61	54	-19.39	-	-	-	-	263	103	V
6	* 1.25015	49.2	PK-U	29.1	-36.6	41.7	-	-	74	-32.3	-	-	270	168	V
	* 1.25002	42.81	ADV	29.1	-36.6	35.31	54	-18.69	-	-	-	-	270	168	V
7	*** 3.53316	43.86	PK-U	33	-32.9	43.96	-	-	74	-30.04	-	-	136	244	V
	*** 3.5333	35.85	ADV	33	-32.9	35.95	54	-18.05	-	-	-	-	136	244	V
9	*** 15.89784	44.34	PK-U	40.2	-26.8	57.74	-	-	74	-16.26	-	-	145	200	V
	*** 15.89898	30.88	ADV	40.1	-26.8	44.18	54	-9.82	-	-	-	-	145	200	V
8	*** 10.59962	35.7	ADV	37.7	-25.7	47.7	-	-	-	-	-	-	239	314	V
	*** 10.59992	49.46	PK-U	37.7	-25.7	61.46	-	-	-	-	68.2	-6.74	239	314	V
4	10.59842	44.06	PK-U	37.7	-25.7	56.06	-	-	-	-	68.2	-12.14	190	223	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)	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	51	PK-U	28.7	-36.9	42.8	-	-	74	-31.2	-	-	335	103	H
	*** 1.20003	46.03	ADV	28.7	-36.9	37.83	54	-16.17	-	-	-	-	335	103	H
2	* 1.2502	52.75	PK-U	29.1	-36.6	45.25	-	-	74	-28.75	-	-	147	101	H
	* 1.25007	48.75	ADV	29.1	-36.6	41.25	54	-12.75	-	-	-	-	147	101	H
3	*** 1.62478	48.47	PK-U	28.2	-35.4	41.27	-	-	74	-32.73	-	-	153	283	H
	*** 1.62516	43.49	ADV	28.2	-35.4	36.29	54	-17.71	-	-	-	-	153	283	H
4	** 1.75008	45.61	PK-U	29.6	-35.5	39.71	-	-	74	-34.29	68.2	-28.49	110	226	H
	** 1.7499	36.4	ADV	29.6	-35.5	30.5	54	-23.5	-	-	-	-	110	226	H
6	*** 1.20017	48.97	PK-U	28.7	-36.9	40.77	-	-	74	-33.23	-	-	262	106	V
	*** 1.20009	42.41	ADV	28.7	-36.9	34.21	54	-19.79	-	-	-	-	262	106	V
7	* 1.25003	51.95	PK-U	29.1	-36.6	44.45	-	-	74	-29.55	-	-	344	258	V
	* 1.25001	47.09	ADV	29.1	-36.6	39.59	54	-14.41	-	-	-	-	344	258	V
8	*** 3.54664	43.83	PK-U	33	-32.8	44.03	-	-	74	-29.97	-	-	136	361	V
	*** 3.54667	35.13	ADV	33	-32.8	35.33	54	-18.67	-	-	-	-	136	361	V
5	*** 10.64169	44.31	PK-U	37.8	-25.7	56.41	-	-	74	-17.59	-	-	187	192	H
	*** 10.64151	30.76	ADV	37.8	-25.7	42.86	54	-11.14	-	-	-	-	187	192	H
9	*** 10.63994	48.6	PK-U	37.8	-25.7	60.7	-	-	74	-13.3	-	-	246	319	V
	*** 10.63907	34.91	ADV	37.8	-25.7	47.01	54	-6.99	-	-	-	-	246	319	V
10	*** 15.9608	45.23	PK-U	40.3	-27.6	57.93	-	-	74	-16.07	-	-	149	211	V
	*** 15.96207	31.73	ADV	40.4	-27.6	44.53	54	-9.47	-	-	-	-	149	211	V

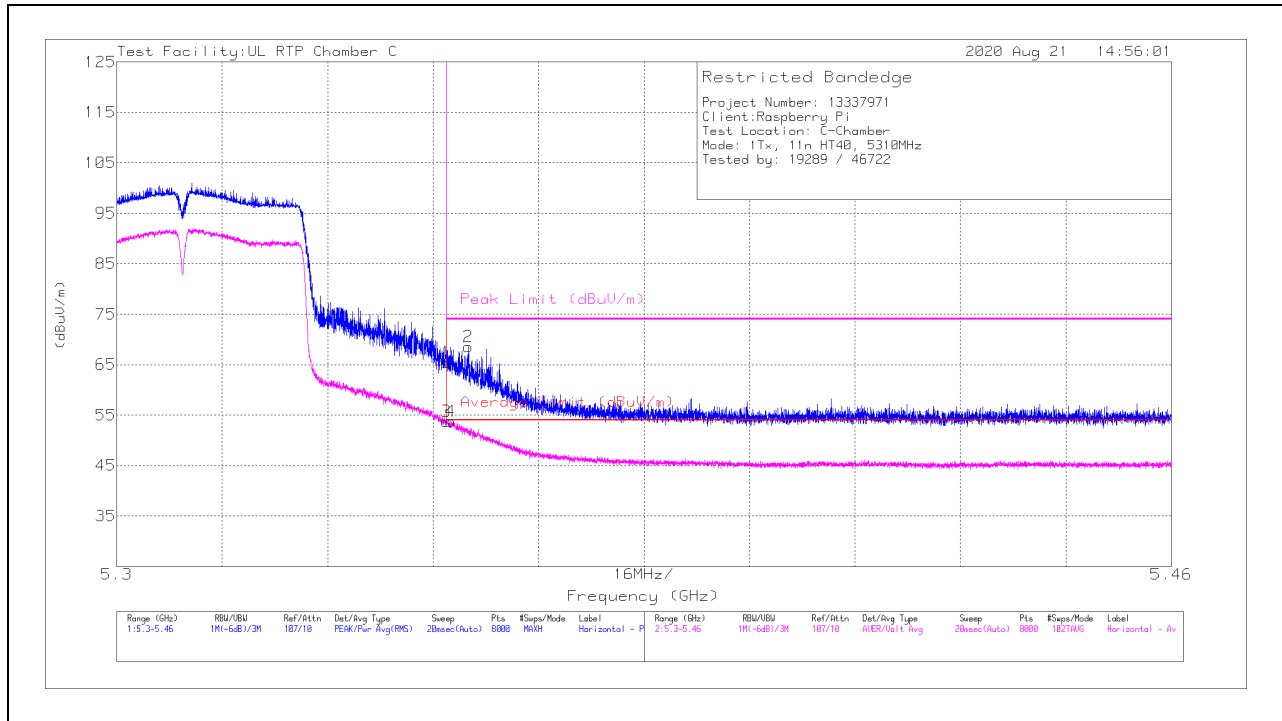
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

9.1.7. TX ABOVE 1 GHz 802.11n HT40 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)	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	* ** 5.35001	46.19	Pk	34.6	-15.4	0	65.39	-	-	74	-8.61	177	301	H
2	* ** 5.35329	49.34	Pk	34.6	-15.4	0	68.54	-	-	74	-5.46	177	301	H
3	* ** 5.35001	34.29	ADV	34.6	-15.4	.23	53.72	54	-.28	-	-	177	301	H
4	* ** 5.35071	34.38	ADV	34.6	-15.4	.23	53.81	54	-.19	-	-	177	301	H

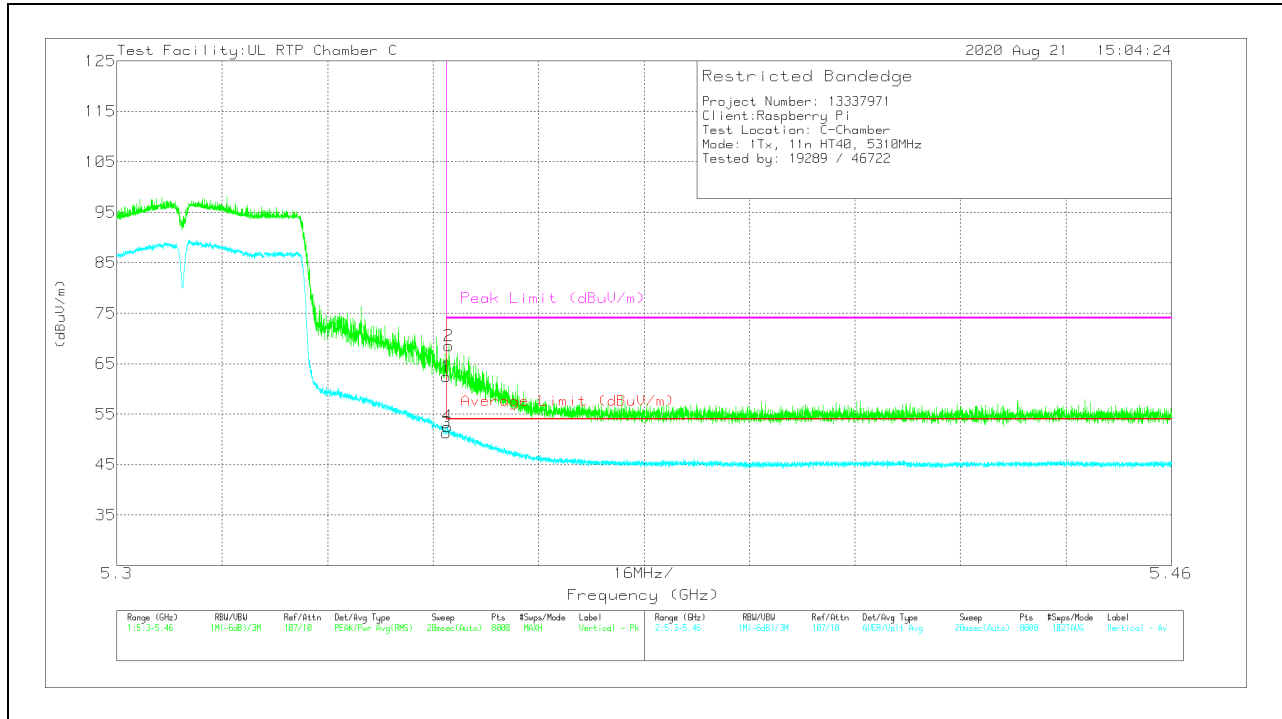
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

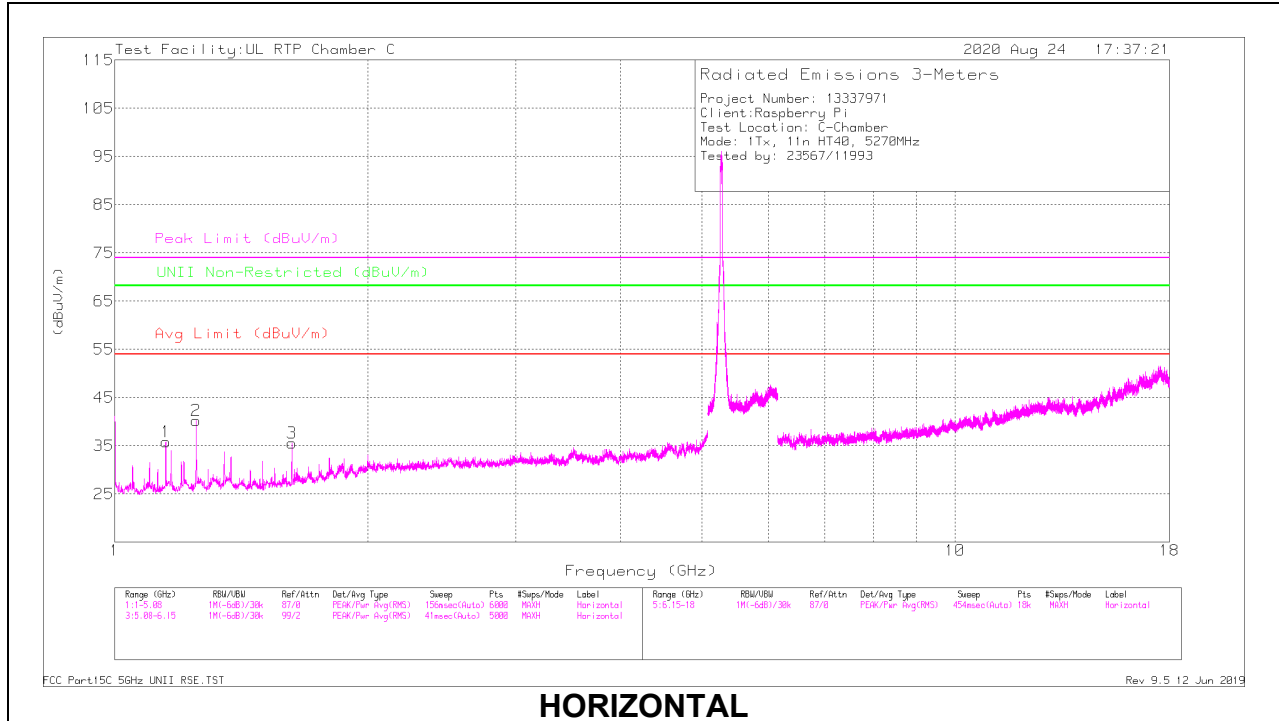


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35001	43.25	Pk	34.6	-15.4	0	62.45	-	-	74	-11.55	222	253	V
2	*** 5.35041	49.34	Pk	34.6	-15.4	0	68.54	-	-	74	-5.46	222	253	V
3	*** 5.35001	31.88	ADV	34.6	-15.4	.23	51.31	54	-2.69	-	-	222	253	V
4	*** 5.35015	33.16	ADV	34.6	-15.4	.23	52.59	54	-1.41	-	-	222	253	V

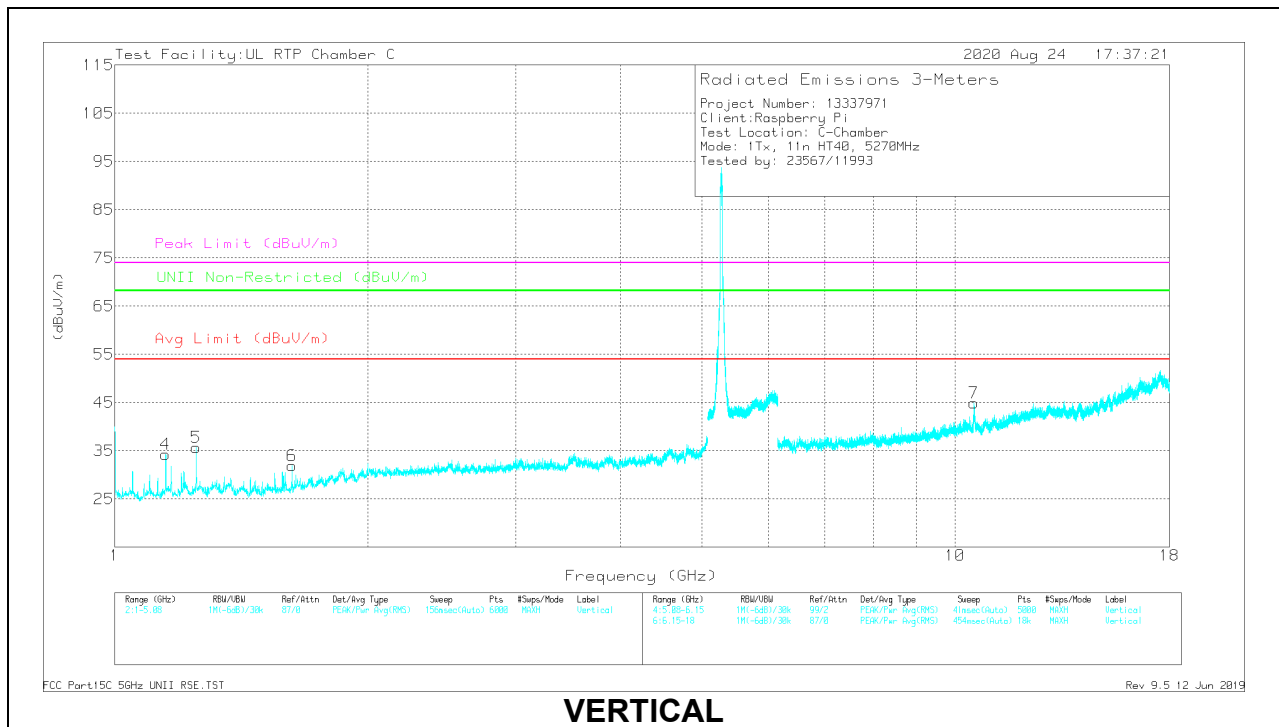
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

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	*** 1.1501	67.12	PK-U	27.4	-54.9	0	39.62	-	-	74	-34.38	-	-	9	102	H
	*** 1.15002	61.61	ADV	27.4	-54.9	.23	34.34	54	-19.66	-	-	-	-	9	102	H
2	* 1.2499	70.47	PK-U	28.6	-55.3	0	43.77	-	-	74	-30.23	-	-	4	174	H
	* 1.25005	66	ADV	28.6	-55.3	.23	39.53	54	-14.47	-	-	-	-	4	174	H
3	*** 1.62488	65.34	PK-U	28.5	-54.1	0	39.74	-	-	74	-34.26	-	-	207	237	H
	*** 1.62488	58.94	ADV	28.5	-54.1	.23	33.57	54	-20.43	-	-	-	-	207	237	H
4	*** 1.14973	65.18	PK-U	27.4	-54.9	0	37.68	-	-	74	-36.32	-	-	215	102	V
	*** 1.15	58.49	ADV	27.4	-54.9	.23	31.22	54	-22.78	-	-	-	-	215	102	V
5	* 1.25039	66.66	PK-U	28.6	-55.3	0	39.96	-	-	74	-34.04	-	-	120	103	V
	* 1.25	60.1	ADV	28.6	-55.3	.23	33.63	54	-20.37	-	-	-	-	120	103	V
6	*** 1.62488	63.05	PK-U	28.5	-54.1	0	37.45	-	-	74	-36.55	-	-	149	102	V
	*** 1.62488	55.17	ADV	28.5	-54.1	.23	29.8	54	-24.2	-	-	-	-	149	102	V
7	10.53905	62.81	PK-U	37.4	-43.5	0	56.71	-	-	-	-	68.2	-11.49	290	316	V

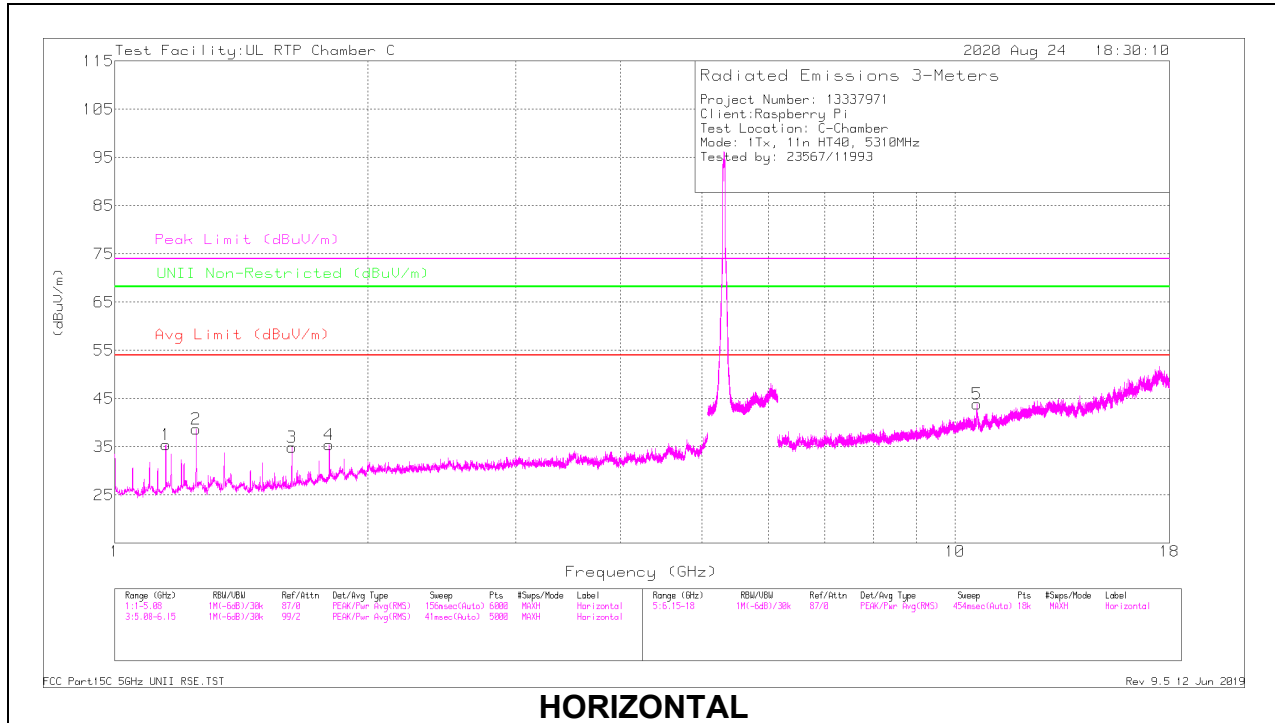
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

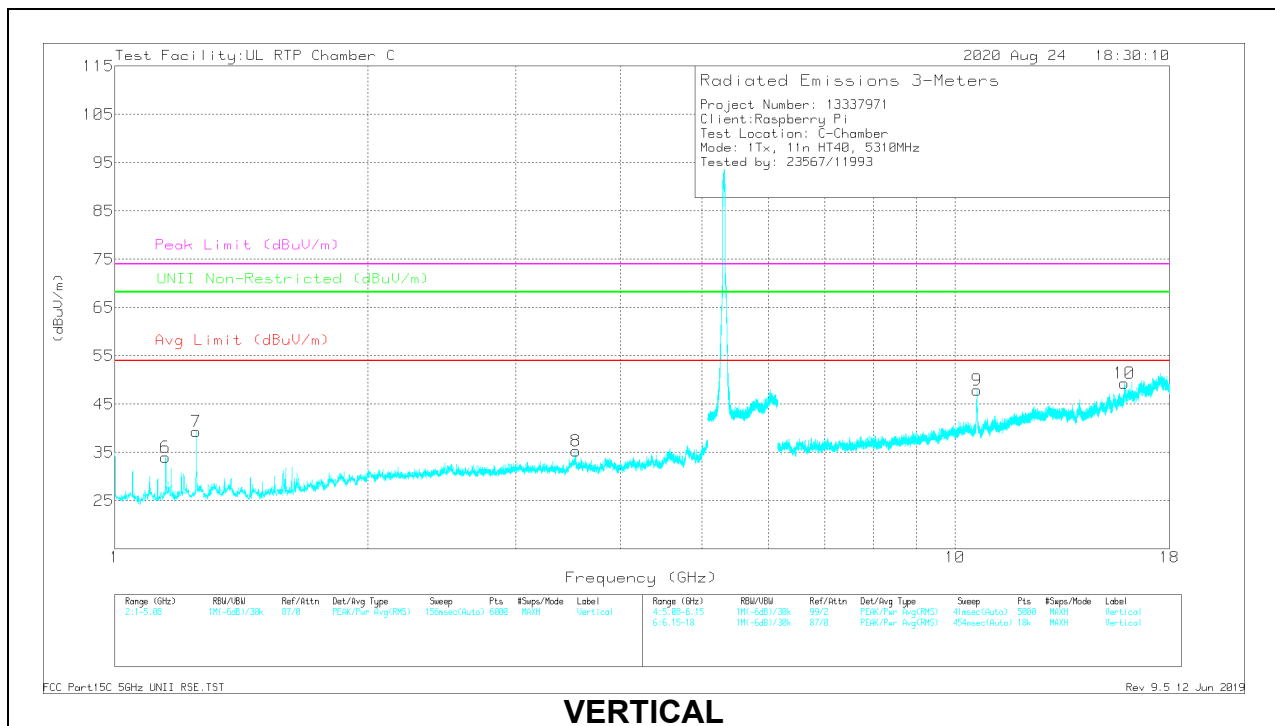
PK-U - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

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	*** 1.1502	66.49	PK-U	27.4	-54.9	0	38.99	-	-	74	-35.01	-	-	6	102	H
	*** 1.15007	60.98	ADV	27.4	-54.9	.23	33.71	54	-20.29	-	-	-	-	6	102	H
2	* 1.25051	69.76	PK-U	28.6	-55.4	0	42.96	-	-	74	-31.04	-	-	211	189	H
	* 1.25	65.06	ADV	28.6	-55.3	.23	38.59	54	-15.41	-	-	-	-	211	189	H
3	*** 1.62525	65.65	PK-U	28.5	-54.1	0	40.05	-	-	74	-33.95	-	-	75	239	H
	*** 1.62488	58.88	ADV	28.5	-54.1	.23	33.51	54	-20.49	-	-	-	-	75	239	H
6	*** 1.15011	66.57	PK-U	27.4	-54.9	0	39.07	-	-	74	-34.93	-	-	107	214	V
	*** 1.15003	60.18	ADV	27.4	-54.9	.23	32.91	54	-21.09	-	-	-	-	107	214	V
7	* 1.25006	70.36	PK-U	28.6	-55.3	0	43.66	-	-	74	-30.34	-	-	185	215	V
	* 1.25002	65.86	ADV	28.6	-55.3	.23	39.39	54	-14.61	-	-	-	-	185	215	V
8	*** 3.54005	57.84	PK-U	33.4	-50.2	0	41.04	-	-	74	-32.96	-	-	160	102	V
	*** 3.53997	48.42	ADV	33.4	-50.2	.23	31.85	54	-22.15	-	-	-	-	160	102	V
5	*** 10.62413	59.9	PK-U	37.5	-43.4	0	54	-	-	74	-20	-	-	242	257	H
	*** 10.62384	45.78	ADV	37.5	-43.4	.23	40.11	54	-13.89	-	-	-	-	242	257	H
9	*** 10.62745	62.35	PK-U	37.5	-43.4	0	56.45	-	-	74	-17.55	-	-	291	279	V
	*** 10.62745	49.28	ADV	37.5	-43.4	.23	43.61	54	-10.39	-	-	-	-	291	279	V
10	*** 15.91695	53.84	PK-U	41	-37.9	0	56.94	-	-	74	-17.06	-	-	191	239	V
	*** 15.91599	40.68	ADV	41	-37.9	.23	44.01	54	-9.99	-	-	-	-	191	239	V
4	1.8	65.77	PK-U	30.2	-54.2	0	41.77	-	-	-	-	68.2	-26.43	205	146	H

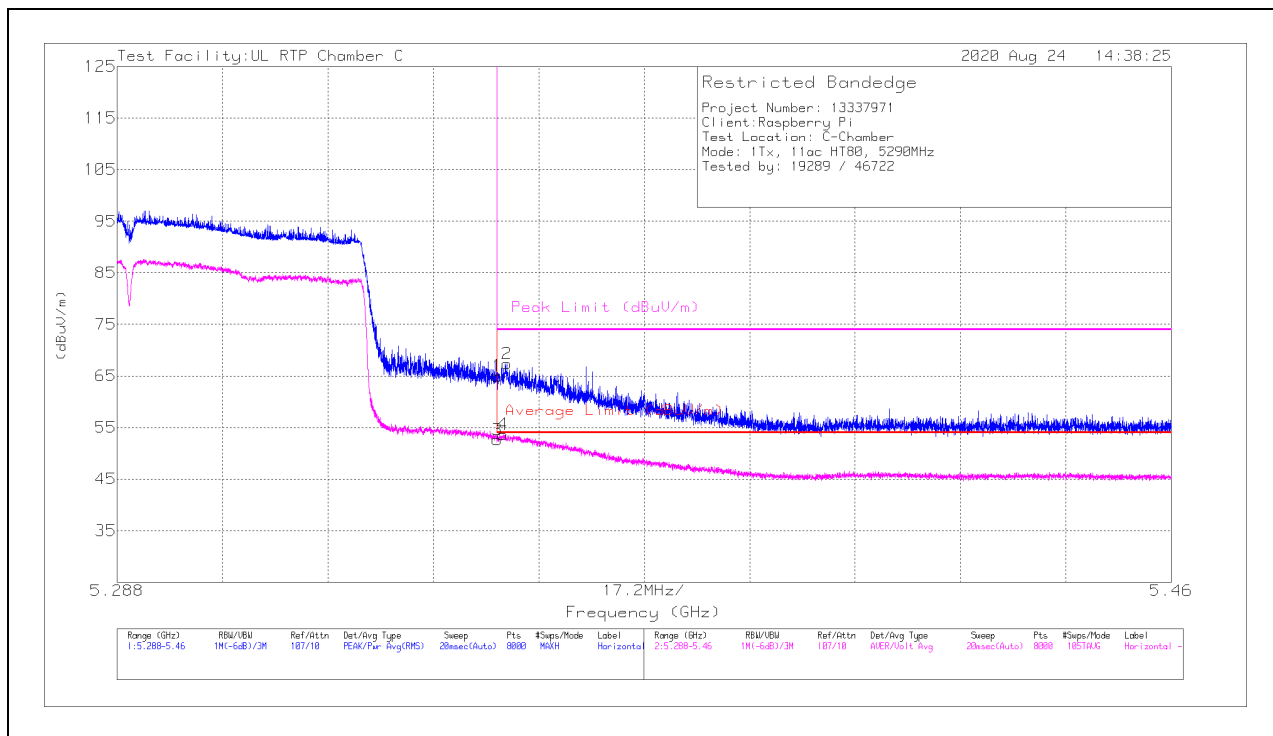
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

9.1.8. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 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	*** 5.35002	45.76	Pk	34.6	-15.4	0	64.96	-	-	74	-9.04	150	102	H
2	*** 5.35161	48.16	PK	34.6	-15.4	0	67.36	-	-	74	-6.64	150	102	H
3	*** 5.35002	33	ADV	34.6	-15.4	.42	52.62	54	-1.38	-	-	150	102	H
4	*** 5.35094	34.01	ADV	34.6	-15.4	.42	53.63	54	-.37	-	-	150	102	H

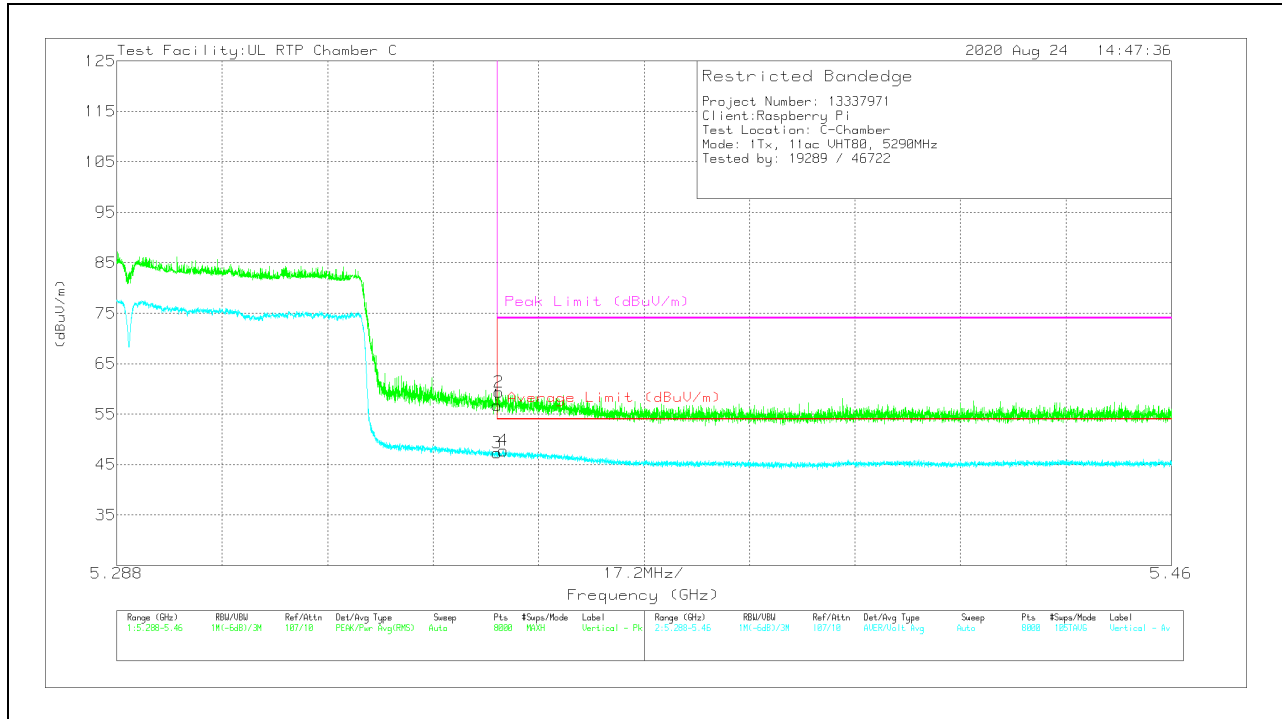
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

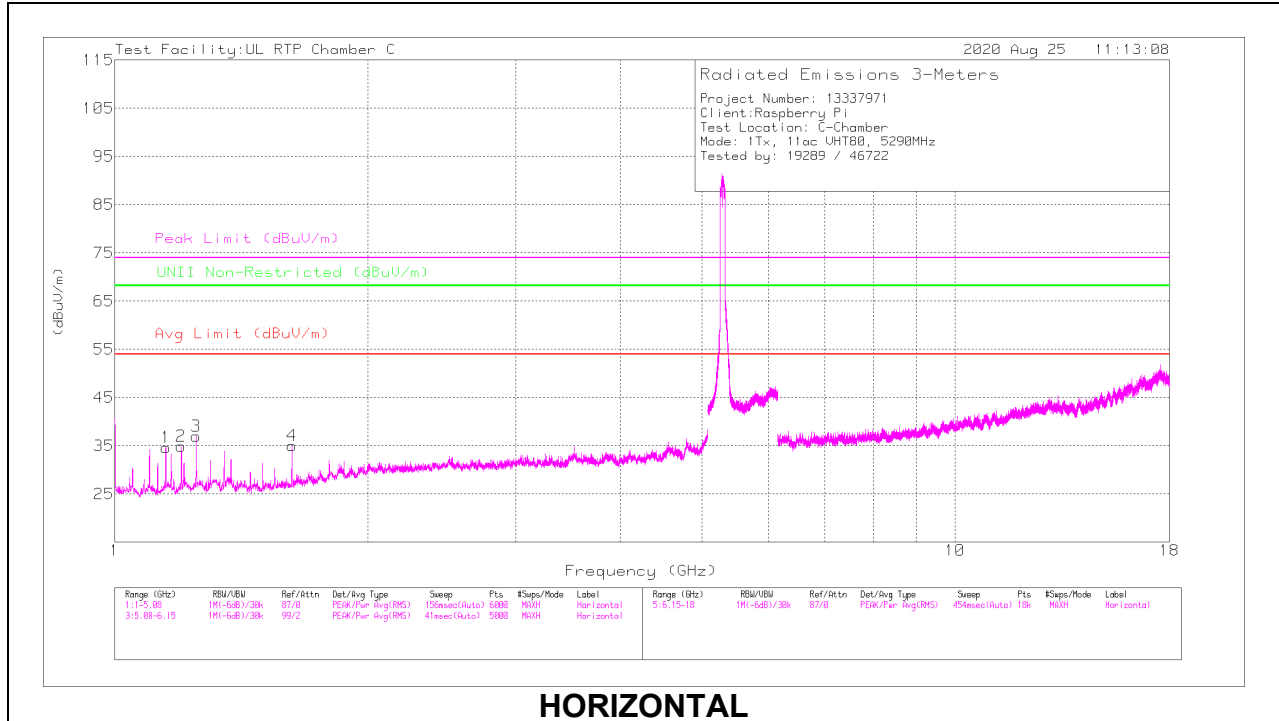


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.35002	37.6	Pk	34.6	-15.4	0	56.8	-	-	74	-17.2	348	102	V
2	*** 5.35029	40.16	Pk	34.6	-15.4	0	59.36	-	-	74	-14.64	348	102	V
3	*** 5.35002	27.65	ADV	34.6	-15.4	.42	47.27	54	-6.73	-	-	348	102	V
4	*** 5.351	28.13	ADV	34.6	-15.4	.42	47.75	54	-6.25	-	-	348	102	V

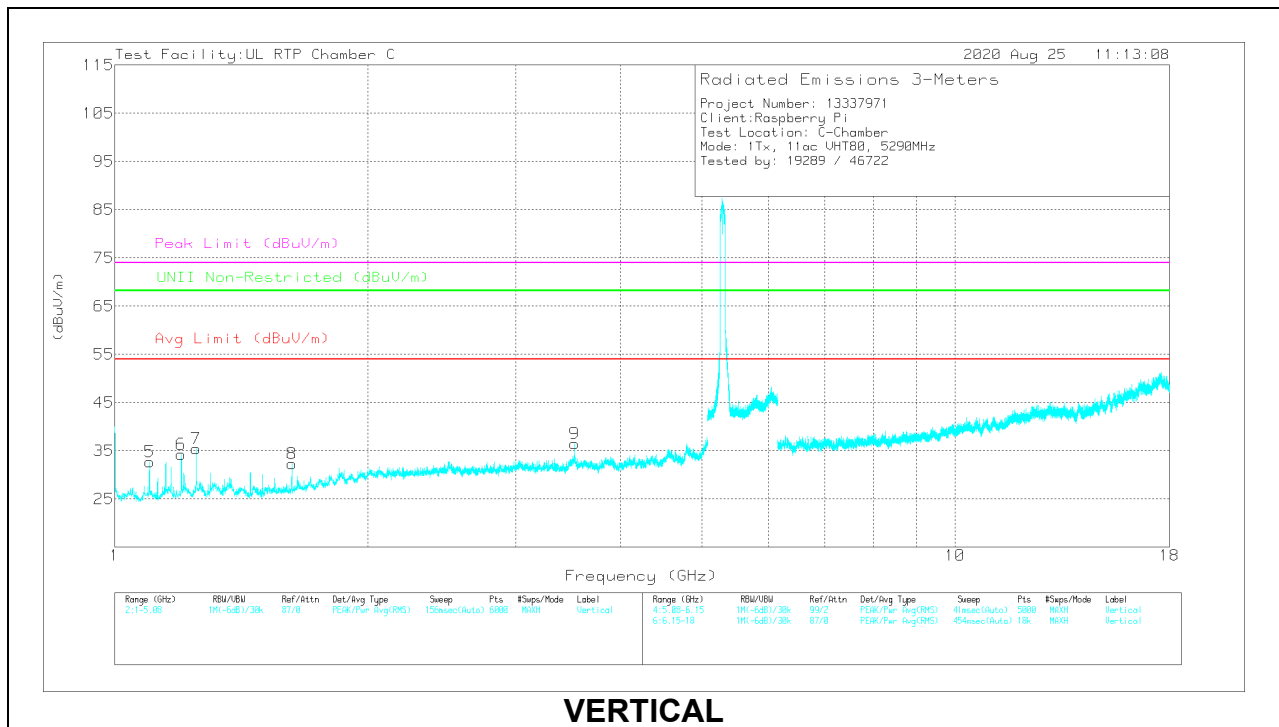
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 Pk - Peak detector
 ADV - Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

MID 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	*** 1.15005	66.24	PK-U	27.4	-54.9	0	38.74	-	-	74	-35.26	-	-	4	102	H
	*** 1.15007	59.72	ADV	27.4	-54.9	.42	32.64	54	-21.36	-	-	-	-	4	102	H
2	*** 1.19989	66.74	PK-U	28.1	-55.2	0	39.64	-	-	74	-34.36	-	-	1	102	H
	*** 1.20004	59.71	ADV	28.1	-55.2	.42	33.03	54	-20.97	-	-	-	-	1	102	H
3	* 1.24995	68.08	PK-U	28.6	-55.3	0	41.38	-	-	74	-32.62	-	-	360	102	H
	* 1.25002	61.75	ADV	28.6	-55.3	.42	35.47	54	-18.53	-	-	-	-	360	102	H
4	*** 1.62541	66.01	PK-U	28.5	-54.1	0	40.41	-	-	74	-33.59	-	-	88	188	H
	*** 1.62503	58.92	ADV	28.5	-54.1	.42	33.74	54	-20.26	-	-	-	-	88	188	H
5	*** 1.1001	66.14	PK-U	27.3	-55.3	0	38.14	-	-	74	-35.86	-	-	292	193	V
	*** 1.10001	57.74	ADV	27.3	-55.3	.42	30.16	54	-23.84	-	-	-	-	292	193	V
6	*** 1.19999	67.21	PK-U	28.1	-55.2	0	40.11	-	-	74	-33.89	-	-	31	284	V
	*** 1.20004	60.09	ADV	28.1	-55.2	.42	33.41	54	-20.59	-	-	-	-	31	284	V
7	* 1.25026	67.62	PK-U	28.6	-55.3	0	40.92	-	-	74	-33.08	-	-	295	397	V
	* 1.25002	61.03	ADV	28.6	-55.3	.42	34.75	54	-19.25	-	-	-	-	295	397	V
8	*** 1.62496	66	PK-U	28.5	-54.1	0	40.4	-	-	74	-33.6	-	-	155	395	V
	*** 1.62507	58.44	ADV	28.5	-54.1	.42	33.26	54	-20.74	-	-	-	-	155	395	V
9	*** 3.5267	59.97	PK-U	33.6	-49.5	0	44.07	-	-	74	-29.93	-	-	173	396	V
	*** 3.52665	49.89	ADV	33.6	-49.5	.42	34.41	54	-19.59	-	-	-	-	173	396	V

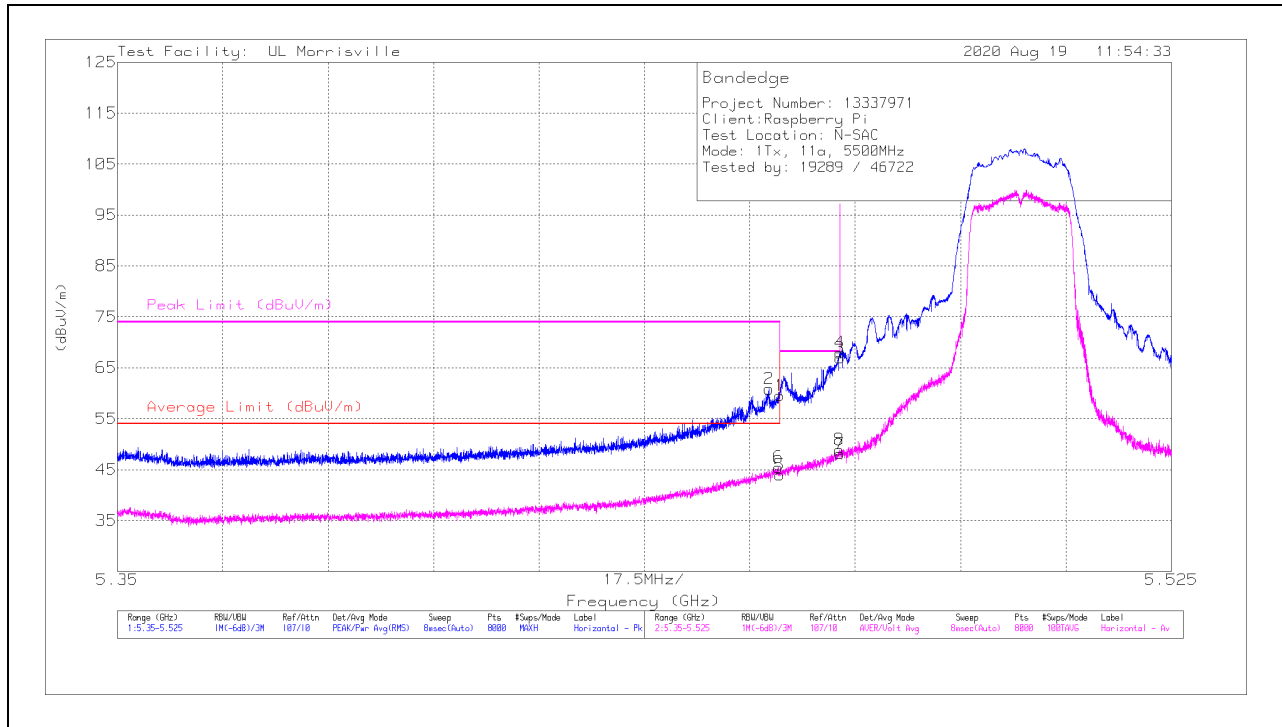
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

9.1.9. TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 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	* ** 5.45998	48.29	Pk	34.4	-23.1	59.59	-	-	74	-14.41	105	221	H
2	* ** 5.45821	49.47	Pk	34.4	-23	60.87	-	-	74	-13.13	105	221	H
5	* ** 5.45998	32.67	ADV	34.4	-23.1	43.97	54	-10.03	-	-	105	221	H
6	* ** 5.45978	34.17	ADV	34.4	-23.1	45.47	54	-8.53	-	-	105	221	H
4	5.46996	56.55	Pk	34.4	-23	67.95	-	-	68.2	-.25	105	221	H
3	5.46998	55.56	Pk	34.4	-23	66.96	-	-	68.2	-1.24	105	221	H

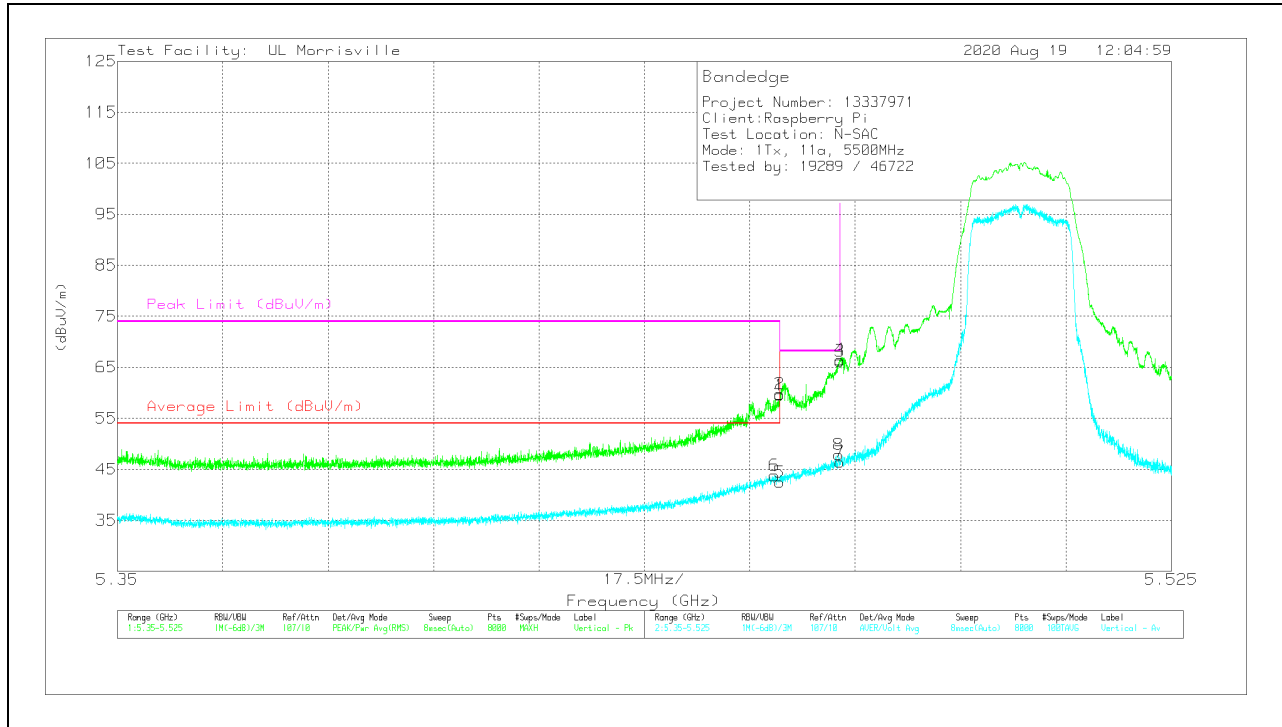
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

VERTICAL RESULT

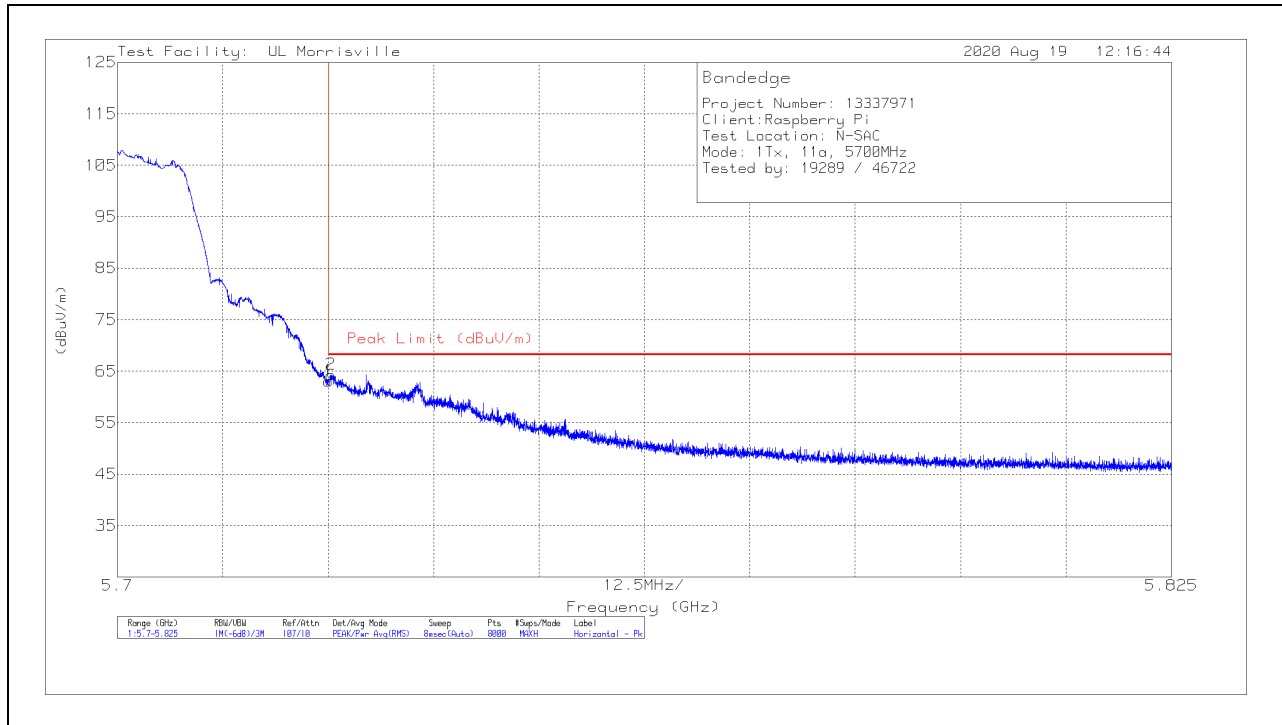


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	48.26	Pk	34.4	-23.1	59.56	-	-	74	-14.44	170	344	V
2	*** 5.45996	48.46	Pk	34.4	-23.1	59.76	-	-	74	-14.24	170	344	V
5	*** 5.45998	31.17	ADV	34.4	-23.1	42.47	54	-11.53	-	-	170	344	V
6	*** 5.45908	32.38	ADV	34.4	-23	43.78	54	-10.22	-	-	170	344	V
4	5.46996	55.08	Pk	34.4	-23	66.48	-	-	68.2	-1.72	170	344	V
3	5.46998	54.85	Pk	34.4	-23	66.25	-	-	68.2	-1.95	170	344	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

BANDEDGE (HIGH CHANNEL)

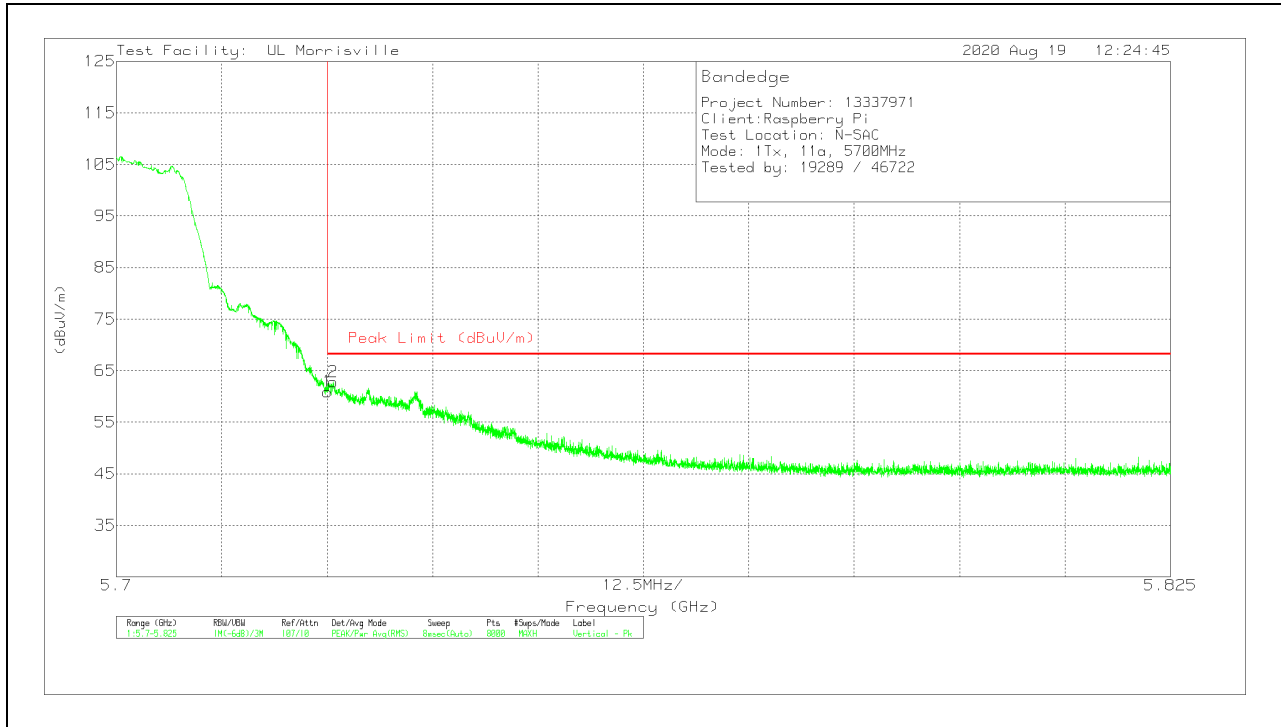
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	51.4	Pk	34.6	-22.9	63.1	68.2	-5.1	84	227	H
2	5.7253	52.64	Pk	34.6	-22.9	64.34	68.2	-3.86	84	227	H

Pk - Peak detector

VERTICAL RESULT

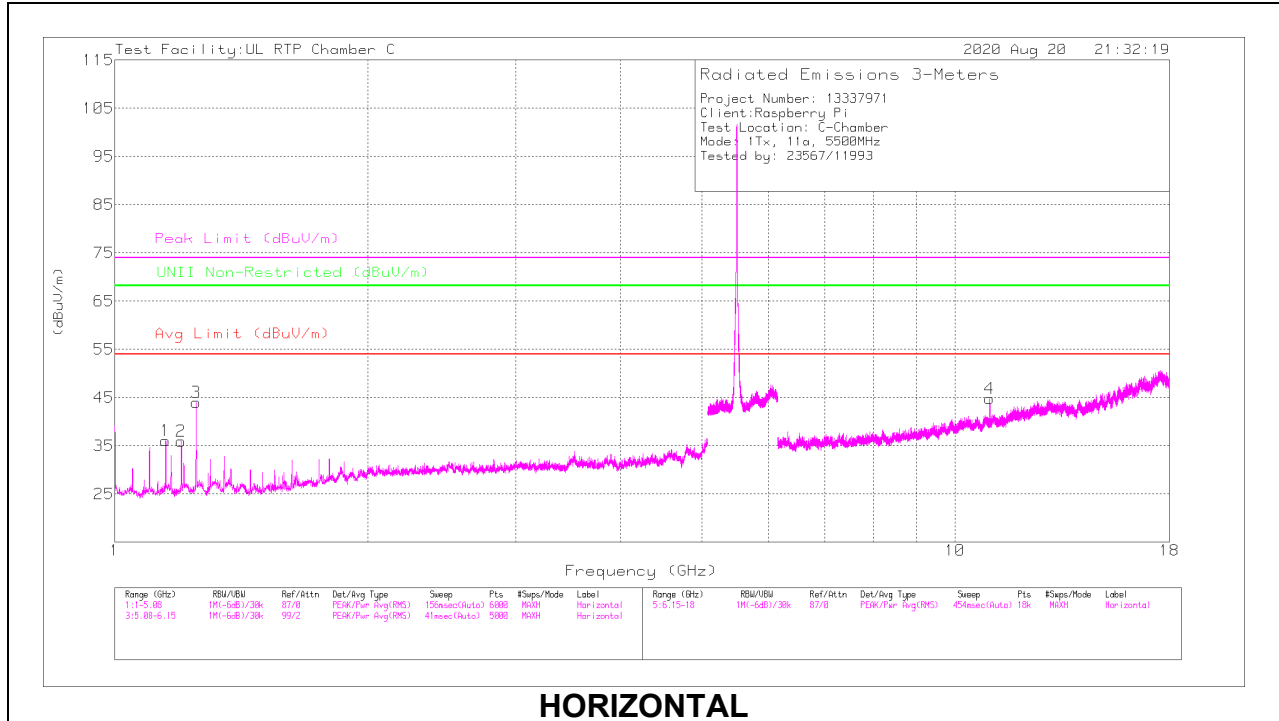


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	49.24	Pk	34.6	-22.9	60.94	68.2	-7.26	174	389	V
2	5.72569	51.14	Pk	34.6	-22.9	62.84	68.2	-5.36	174	389	V

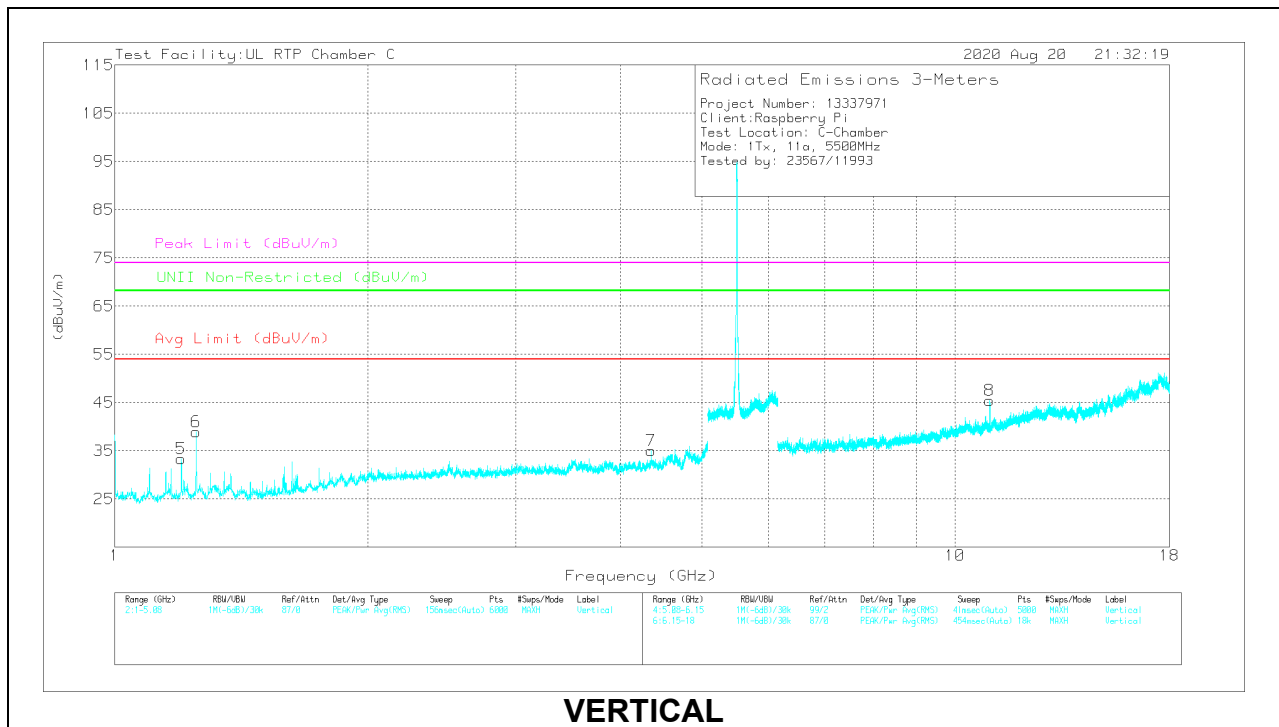
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



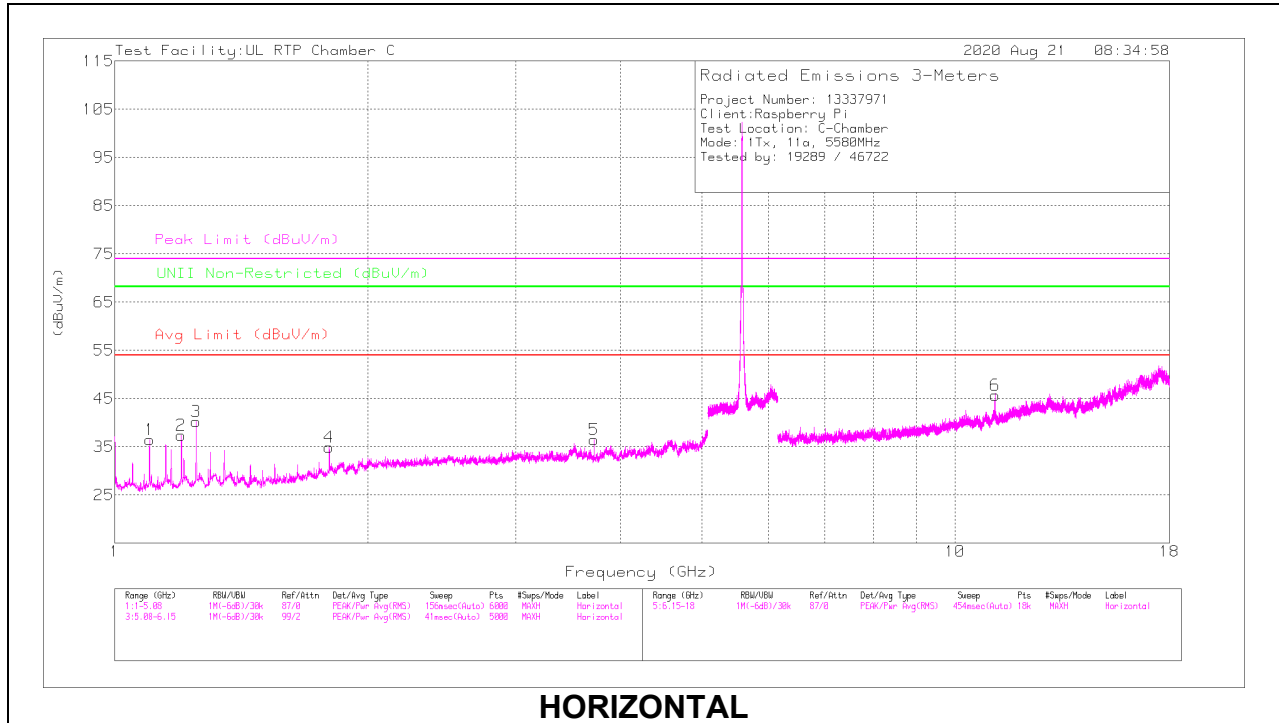
VERTICAL

RADIATED EMISSIONS

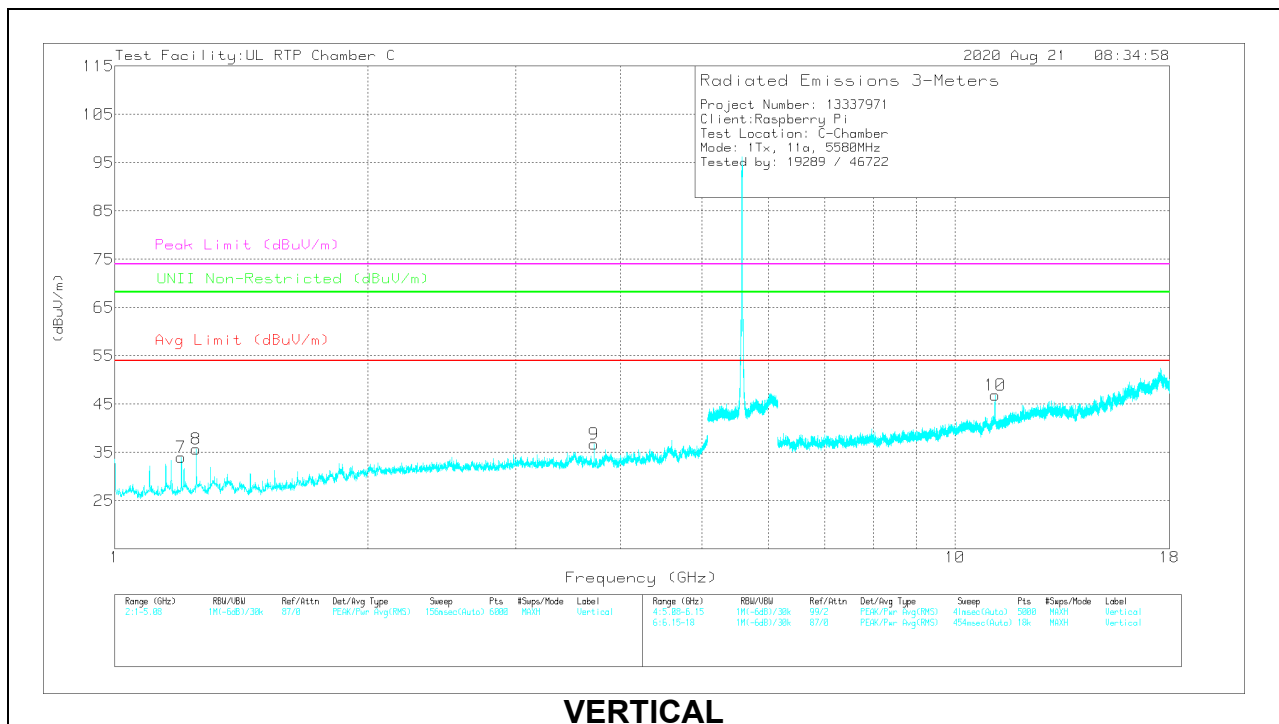
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 1.14992	67.21	PK-U	27.4	-54.9	39.71	-	-	74	-34.29	-	-	174	102	H
	*** 1.15003	61.5	ADV	27.4	-54.9	34	54	-20	-	-	-	-	174	102	H
2	** 1.2	66.45	PK-U	28.1	-55.2	39.35	-	-	74	-34.65	-	-	171	102	H
	*** 1.20003	60.41	ADV	28.1	-55.2	33.31	54	-20.69	-	-	-	-	171	102	H
3	* 1.25016	69.31	PK-U	28.6	-55.3	42.61	-	-	74	-31.39	-	-	175	103	H
	* 1.25001	64.58	ADV	28.6	-55.3	37.88	54	-16.12	-	-	-	-	175	103	H
5	*** 1.19994	64.47	PK-U	28.1	-55.2	37.37	-	-	74	-36.63	-	-	329	102	V
	*** 1.20003	56.73	ADV	28.1	-55.2	29.63	54	-24.37	-	-	-	-	329	102	V
6	* 1.24965	66.89	PK-U	28.6	-55.3	40.19	-	-	74	-33.81	-	-	339	204	V
	* 1.25001	61.22	ADV	28.6	-55.3	34.52	54	-19.48	-	-	-	-	339	204	V
7	*** 4.35234	55.16	PK-U	33.7	-48.8	40.06	-	-	74	-33.94	-	-	358	103	V
	*** 4.35248	41.91	ADV	33.7	-48.8	26.81	54	-27.19	-	-	-	-	358	103	V
4	*** 10.99922	59.67	PK-U	37.8	-42.4	55.07	-	-	74	-18.93	-	-	243	235	H
	*** 10.99999	46.33	ADV	37.8	-42.4	41.73	54	-12.27	-	-	-	-	243	235	H
8	*** 10.99878	62.83	PK-U	37.8	-42.4	58.23	-	-	74	-15.77	-	-	302	324	V
	*** 10.99764	48.5	ADV	37.8	-42.4	43.9	54	-10.1	-	-	-	-	302	324	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
1	*** 1.10029	68.69	PK-U	27.3	-55.3	40.69	-	-	74	-33.31	-	-	27	117	H
	*** 1.10002	62.9	ADV	27.3	-55.3	34.9	54	-19.1	-	-	-	-	27	117	H
2	*** 1.19999	69.42	PK-U	28.1	-55.2	42.32	-	-	74	-31.68	-	-	179	242	H
	*** 1.20002	64.02	ADV	28.1	-55.2	36.92	54	-17.08	-	-	-	-	179	242	H
3	*** 3.72	59.46	PK-U	33.3	-50.6	42.16	-	-	74	-31.84	-	-	314	102	H
	*** 3.71997	50.88	ADV	33.3	-50.6	33.58	54	-20.42	-	-	-	-	314	102	H
5	* 1.25008	69.68	PK-U	28.6	-55.3	42.98	-	-	74	-31.02	-	-	5	220	H
	* 1.25002	64.49	ADV	28.6	-55.3	37.79	54	-16.21	-	-	-	-	5	220	H
7	*** 1.19981	65.95	PK-U	28.1	-55.2	38.85	-	-	74	-35.15	-	-	279	103	V
	*** 1.19999	58.2	ADV	28.1	-55.2	31.1	54	-22.9	-	-	-	-	279	103	V
8	*** 3.71991	60.42	PK-U	33.3	-50.6	43.12	-	-	74	-30.88	-	-	0	273	V
	*** 3.72001	52.11	ADV	33.3	-50.6	34.81	54	-19.19	-	-	-	-	0	273	V
9	* 1.24999	68.65	PK-U	28.6	-55.3	41.95	-	-	74	-32.05	-	-	230	392	V
	* 1.25005	62.13	ADV	28.6	-55.3	35.43	54	-18.57	-	-	-	-	230	392	V
6	*** 11.15877	60.22	PK-U	37.9	-42.9	55.22	-	-	74	-18.78	-	-	244	212	H
	*** 11.15831	45.79	ADV	37.9	-42.9	40.79	54	-13.21	-	-	-	-	244	212	H
10	*** 11.1599	61.09	PK-U	37.9	-42.8	56.19	-	-	74	-17.81	-	-	281	257	V
	*** 11.15987	48.53	ADV	37.9	-42.8	43.63	54	-10.37	-	-	-	-	281	257	V
4	1.79997	65.82	PK-U	30.2	-54.2	41.82	-	-	-	-	68.2	-26.38	203	297	H

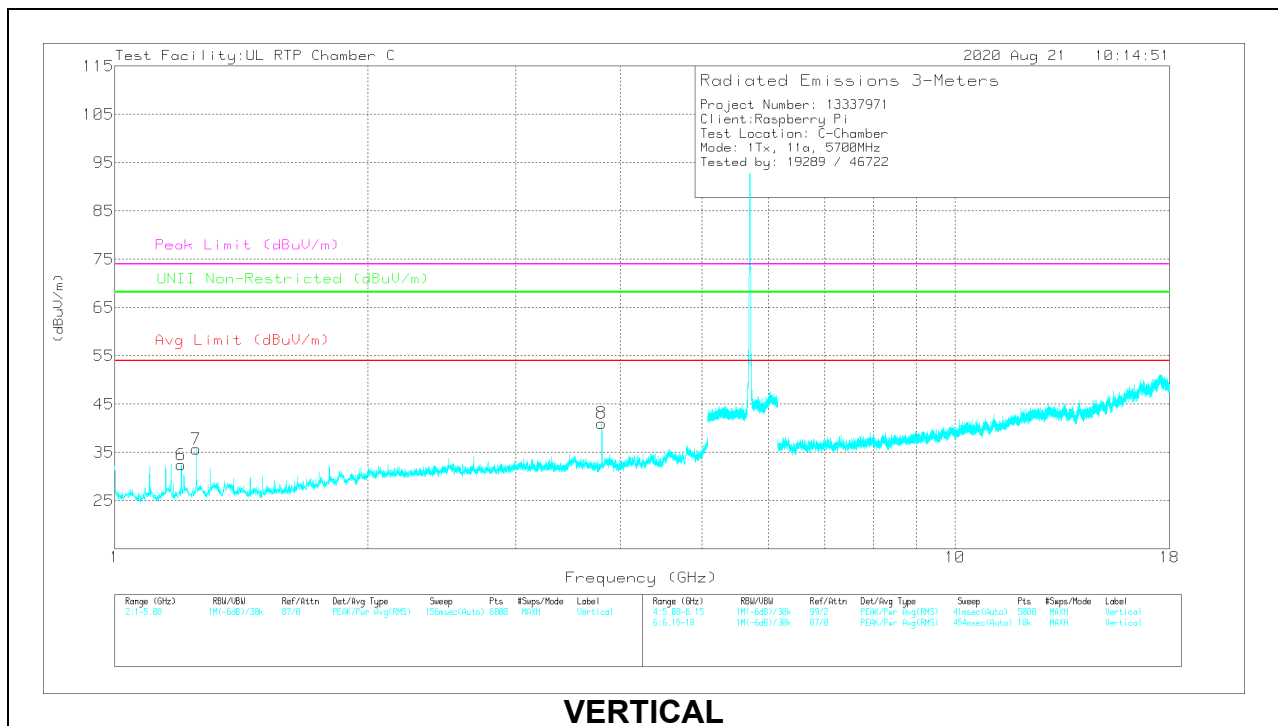
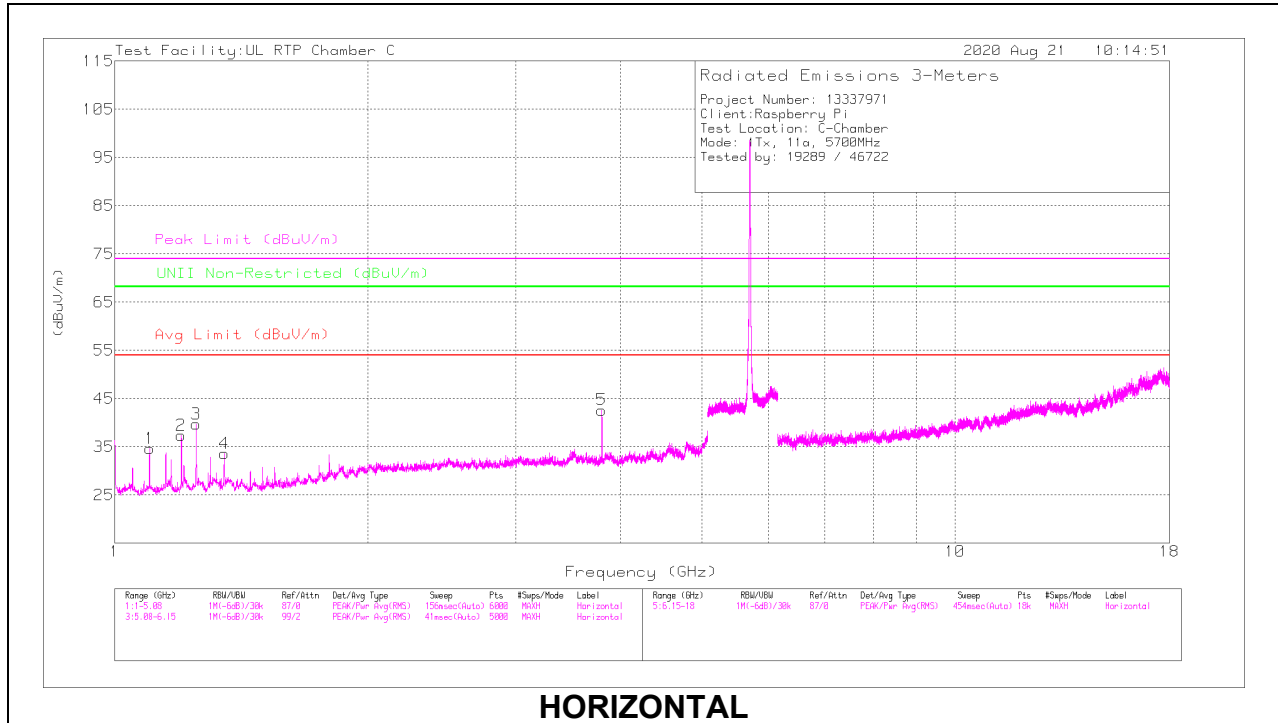
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

ADV - Linear Voltage Average

HIGH CHANNEL RESULTS



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	*** 1.09999	67.8	PK-U	27.3	-55.3	39.8	-	-	74	-34.2	-	-	24	118	H
	** 1.1	61.92	ADV	27.3	-55.3	33.92	54	-20.08	-	-	-	-	24	118	H
2	*** 1.19994	67.92	PK-U	28.1	-55.2	40.82	-	-	74	-33.18	-	-	175	202	H
	*** 1.20005	62.15	ADV	28.1	-55.2	35.05	54	-18.95	-	-	-	-	175	202	H
3	* 1.2501	71.13	PK-U	28.6	-55.3	44.43	-	-	74	-29.57	-	-	190	256	H
	* 1.25001	66.6	ADV	28.6	-55.3	39.9	54	-14.1	-	-	-	-	190	256	H
4	*** 1.35005	63.84	PK-U	28.8	-54.7	37.94	-	-	74	-36.06	-	-	186	182	H
	*** 1.35002	56.26	ADV	28.8	-54.7	30.36	54	-23.64	-	-	-	-	186	182	H
5	*** 3.79994	60.94	PK-U	33.6	-49.8	44.74	-	-	74	-29.26	-	-	299	102	H
	*** 3.79997	55.39	ADV	33.6	-49.8	39.19	54	-14.81	-	-	-	-	299	102	H
6	*** 1.20014	65.15	PK-U	28.1	-55.2	38.05	-	-	74	-35.95	-	-	315	103	V
	*** 1.20002	57.59	ADV	28.1	-55.2	30.49	54	-23.51	-	-	-	-	315	103	V
7	* 1.25013	68.58	PK-U	28.6	-55.3	41.88	-	-	74	-32.12	-	-	255	363	V
	* 1.25005	62.1	ADV	28.6	-55.3	35.4	54	-18.6	-	-	-	-	255	363	V
8	*** 3.80001	62.83	PK-U	33.6	-49.8	46.63	-	-	74	-27.37	-	-	345	397	V
	*** 3.79998	57.37	ADV	33.6	-49.8	41.17	54	-12.83	-	-	-	-	345	397	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

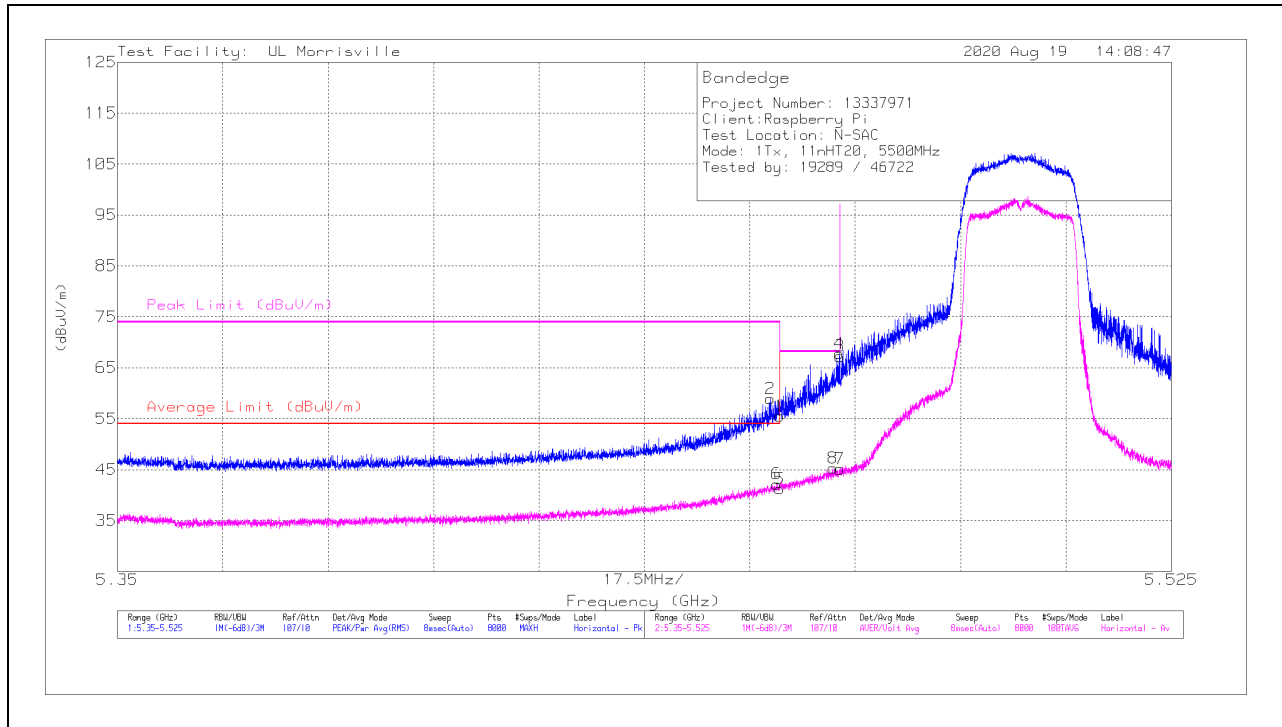
ADV - Linear Voltage Average

9.1.10. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL)

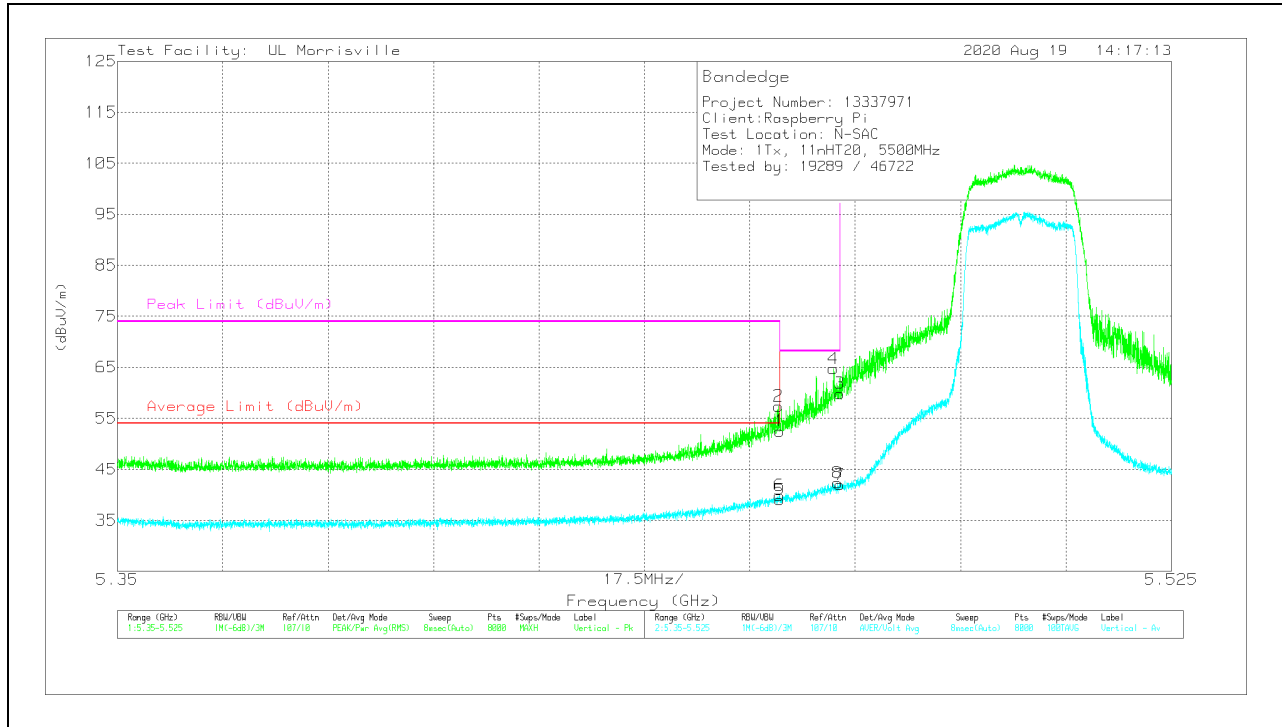
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 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	* ** 5.45998	44.22	Pk	34.4	-23.1	55.52	-	-	74	-18.48	99	189	H
2	* ** 5.45841	47.51	Pk	34.4	-23	58.91	-	-	74	-15.09	99	189	H
5	* ** 5.45998	29.92	ADV	34.4	-23.1	41.22	54	-12.78	-	-	99	189	H
6	* ** 5.45943	30.77	ADV	34.4	-23	42.17	54	-11.83	-	-	99	189	H
4	5.46983	56.41	Pk	34.4	-23	67.81	-	-	68.2	-.39	99	189	H
3	5.46998	55.85	Pk	34.4	-23	67.25	-	-	68.2	-.95	99	189	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

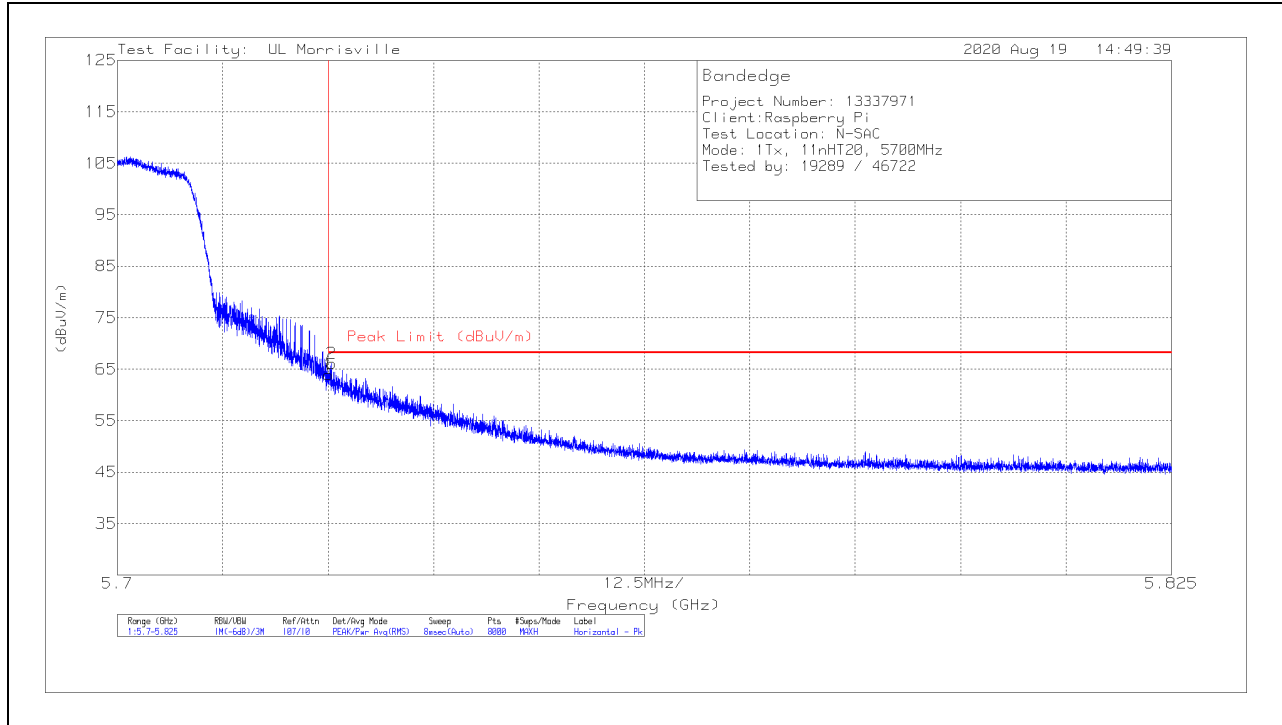


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.45998	41.19	Pk	34.4	-23.1	52.49	-	-	74	-21.51	171	317	V
2	*** 5.45976	46.09	Pk	34.4	-23.1	57.39	-	-	74	-16.61	171	317	V
5	*** 5.45998	27.7	ADV	34.4	-23.1	39	54	-15	-	-	171	317	V
6	*** 5.45992	28.58	ADV	34.4	-23.1	39.88	54	-14.12	-	-	171	317	V
4	5.46886	53.32	Pk	34.4	-23	64.72	-	-	68.2	-3.48	171	317	V
3	5.46998	48.47	Pk	34.4	-23	59.87	-	-	68.2	-8.33	171	317	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

BANDEDGE (HIGH CHANNEL)

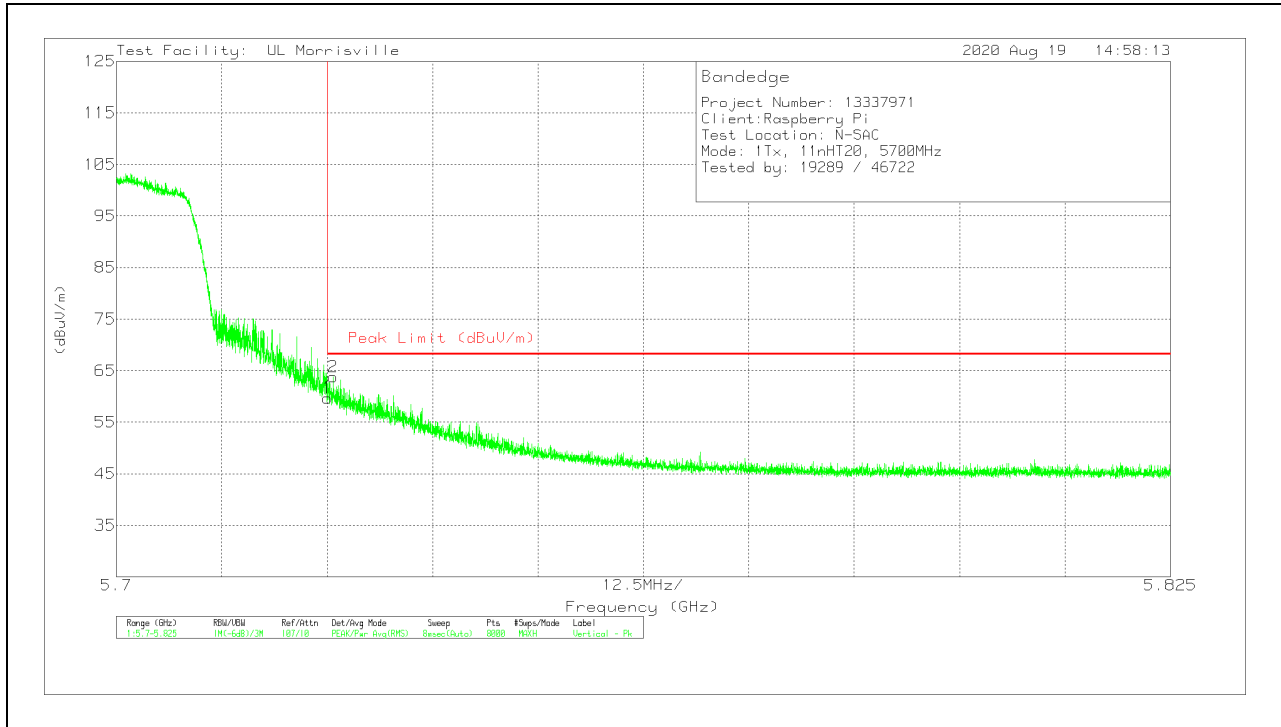
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	52.2	Pk	34.6	-22.9	63.9	68.2	-4.3	105	281	H
2	5.72538	54.39	Pk	34.6	-22.9	66.09	68.2	-2.11	105	281	H

Pk - Peak detector

VERTICAL RESULT

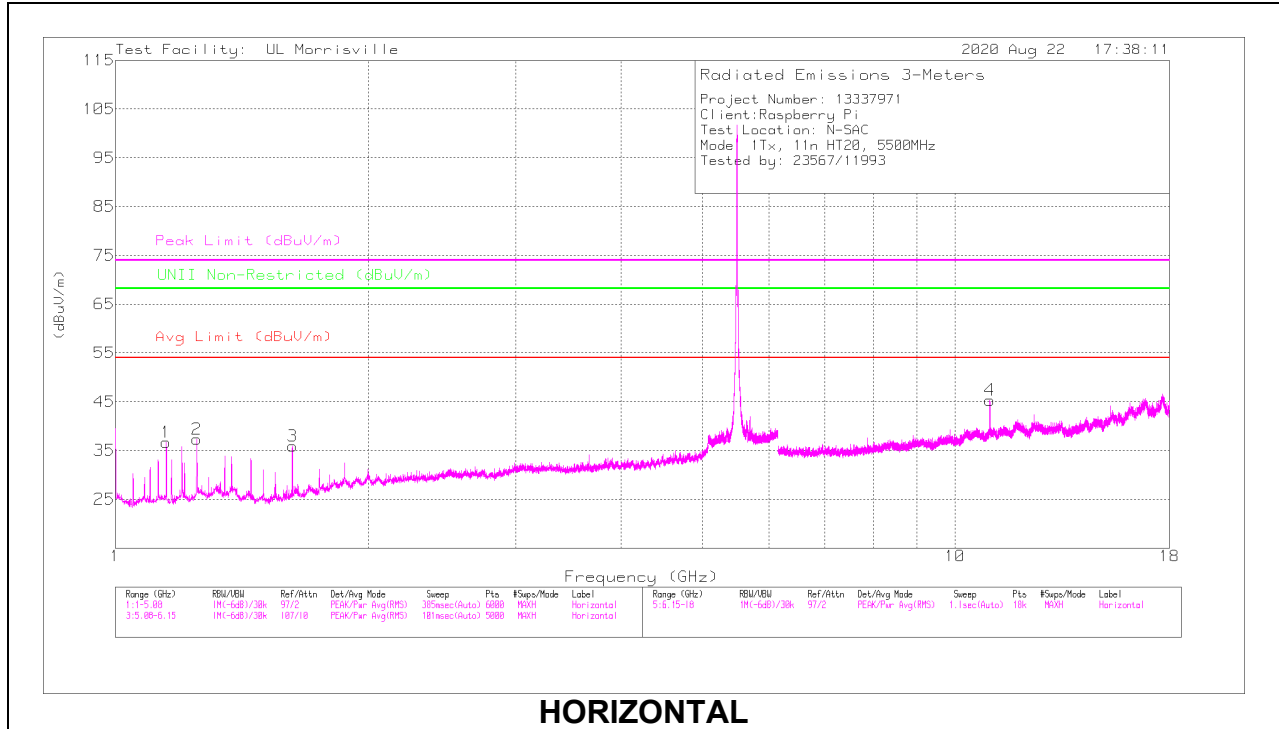


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	48.01	Pk	34.6	-22.9	59.71	68.2	-8.49	143	364	V
2	5.72571	52.08	Pk	34.6	-22.9	63.78	68.2	-4.42	143	364	V

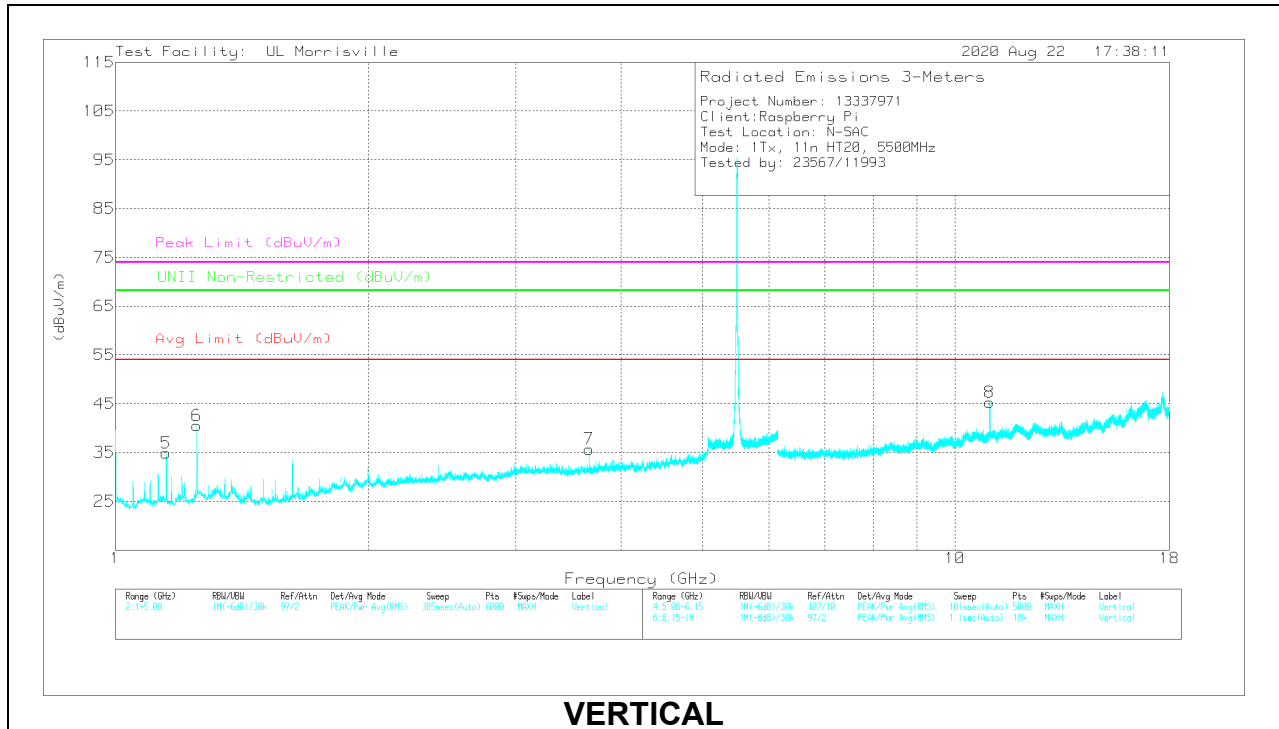
Pk - Peak detector

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	*** 1.14962	50.21	PK-U	28.1	-37	41.31	-	-	74	-32.69	-	-	319	212	H
	*** 1.1501	45.02	ADV	28.1	-37	36.12	54	-17.88	-	-	-	-	319	212	H
2	* 1.25028	50.41	PK-U	29.1	-36.6	42.91	-	-	74	-31.09	-	-	83	108	H
	* 1.25001	45.12	ADV	29.1	-36.6	37.62	54	-16.38	-	-	-	-	83	108	H
3	*** 1.62516	48.32	PK-U	28.2	-35.4	41.12	-	-	74	-32.88	-	-	157	346	H
	*** 1.62516	43.09	ADV	28.2	-35.4	35.89	54	-18.11	-	-	-	-	157	346	H
5	*** 1.14985	49.18	PK-U	28.1	-37	40.28	-	-	74	-33.72	-	-	269	102	V
	*** 1.14998	43	ADV	28.1	-37	34.1	54	-19.9	-	-	-	-	269	102	V
6	* 1.25006	53.28	PK-U	29.1	-36.6	45.78	-	-	74	-28.22	-	-	340	258	V
	* 1.25002	49.06	ADV	29.1	-36.6	41.56	54	-12.44	-	-	-	-	340	258	V
7	*** 3.66665	43.28	PK-U	33	-32.4	43.88	-	-	74	-30.12	-	-	61	196	V
	*** 3.66668	33.95	ADV	33	-32.4	34.55	54	-19.45	-	-	-	-	61	196	V
4	*** 11.0002	44.05	PK-U	37.9	-26.1	55.85	-	-	74	-18.15	-	-	191	197	H
	*** 10.99881	30.87	ADV	37.9	-26.1	42.67	54	-11.33	-	-	-	-	191	197	H
8	*** 10.99961	46.88	PK-U	37.9	-26.1	58.68	-	-	74	-15.32	-	-	241	265	V
	*** 11.00071	33.33	ADV	37.9	-26.1	45.13	54	-8.87	-	-	-	-	241	265	V

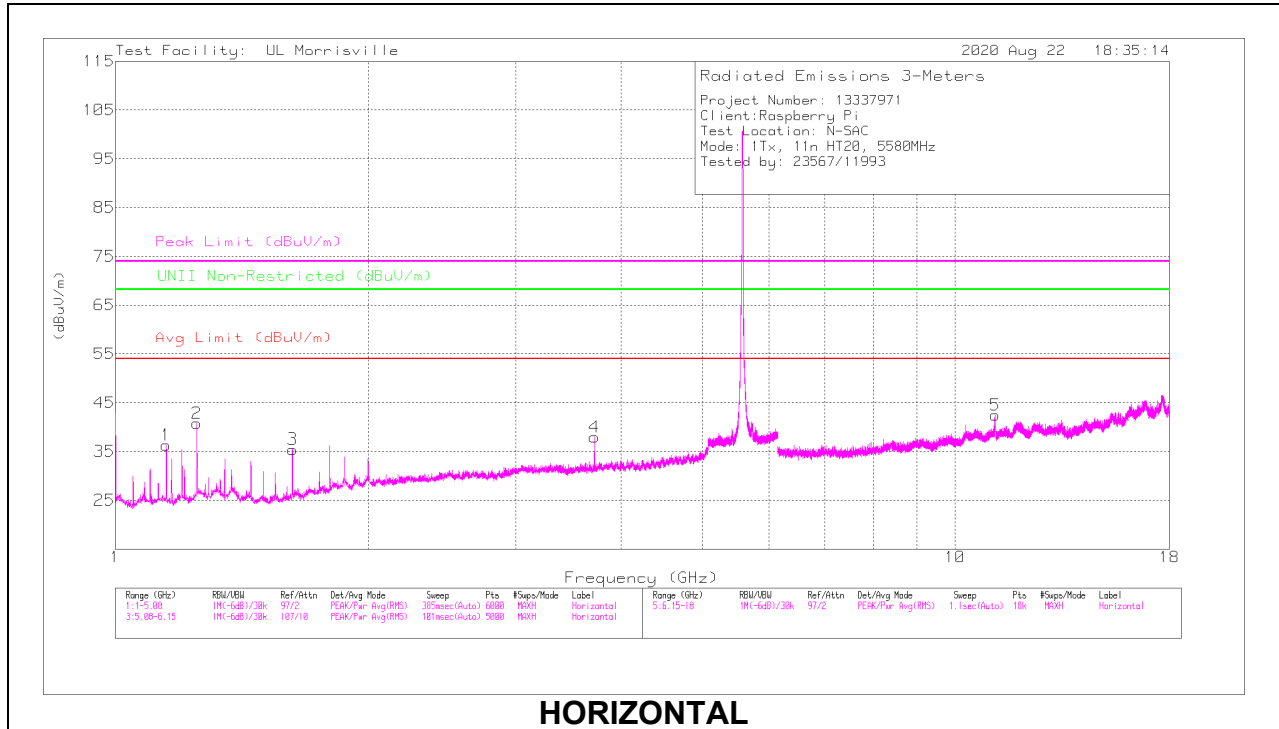
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

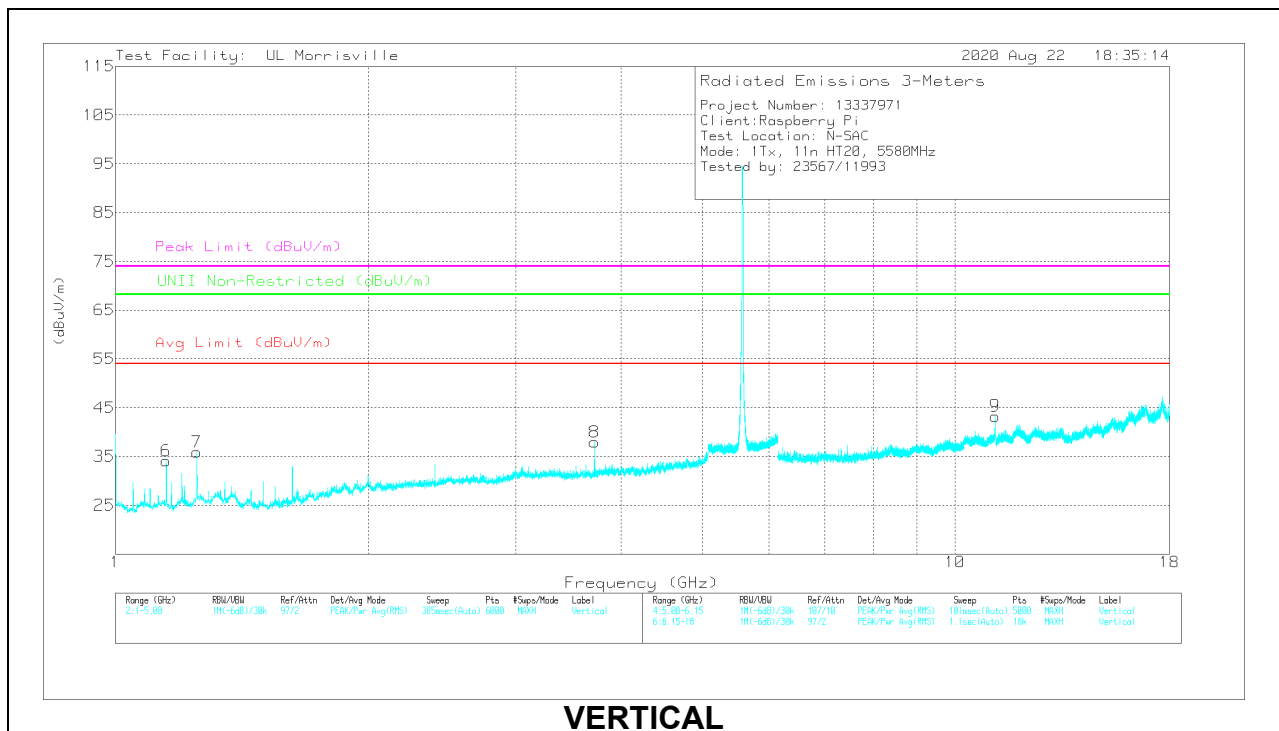
PK-U - Maximum Peak

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	*** 1.14992	50.3	PK-U	28.1	-37	41.4	-	-	74	-32.6	-	-	336	153	H
	*** 1.15006	45.11	ADV	28.1	-37	36.21	54	-17.79	-	-	-	-	336	153	H
2	* 1.25012	52.81	PK-U	29.1	-36.6	45.31	-	-	74	-28.69	-	-	319	232	H
	* 1.25005	48.47	ADV	29.1	-36.6	40.97	54	-13.03	-	-	-	-	319	232	H
3	*** 1.62478	48.47	PK-U	28.2	-35.4	41.27	-	-	74	-32.73	-	-	120	282	H
	*** 1.62516	42.84	ADV	28.2	-35.4	35.64	54	-18.36	-	-	-	-	120	282	H
4	*** 3.71993	45.53	PK-U	33.2	-33	45.73	-	-	74	-28.27	-	-	256	327	H
	*** 3.72004	38.49	ADV	33.2	-33	38.69	54	-15.31	-	-	-	-	256	327	H
6	*** 1.15008	49.11	PK-U	28.1	-37	40.21	-	-	74	-33.79	-	-	272	102	V
	*** 1.15001	42.24	ADV	28.1	-37	33.34	54	-20.66	-	-	-	-	272	102	V
7	* 1.25013	50.42	PK-U	29.1	-36.6	42.92	-	-	74	-31.08	-	-	187	393	V
	* 1.24996	44.69	ADV	29.1	-36.6	37.19	54	-16.81	-	-	-	-	187	393	V
8	*** 3.72005	44.72	PK-U	33.2	-33	44.92	-	-	74	-29.08	-	-	304	305	V
	*** 3.71996	37.87	ADV	33.2	-33	38.07	54	-15.93	-	-	-	-	304	305	V
5	*** 11.15988	41.6	PK-U	37.9	-26.2	53.3	-	-	74	-20.7	-	-	181	192	H
	*** 11.15896	28.65	ADV	37.9	-26.2	40.35	54	-13.65	-	-	-	-	181	192	H
9	*** 11.16021	46.03	PK-U	37.9	-26.2	57.73	-	-	74	-16.27	-	-	238	276	V
	*** 11.15889	32.62	ADV	37.9	-26.2	44.32	54	-9.68	-	-	-	-	238	276	V

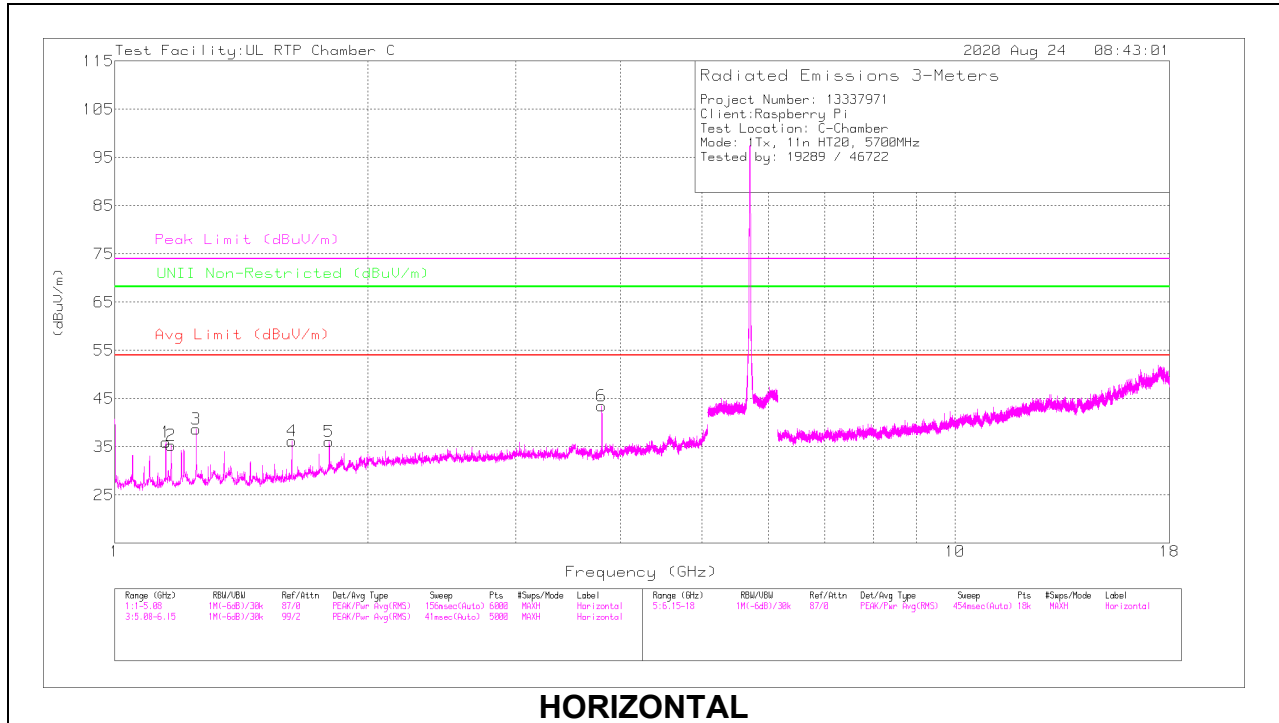
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

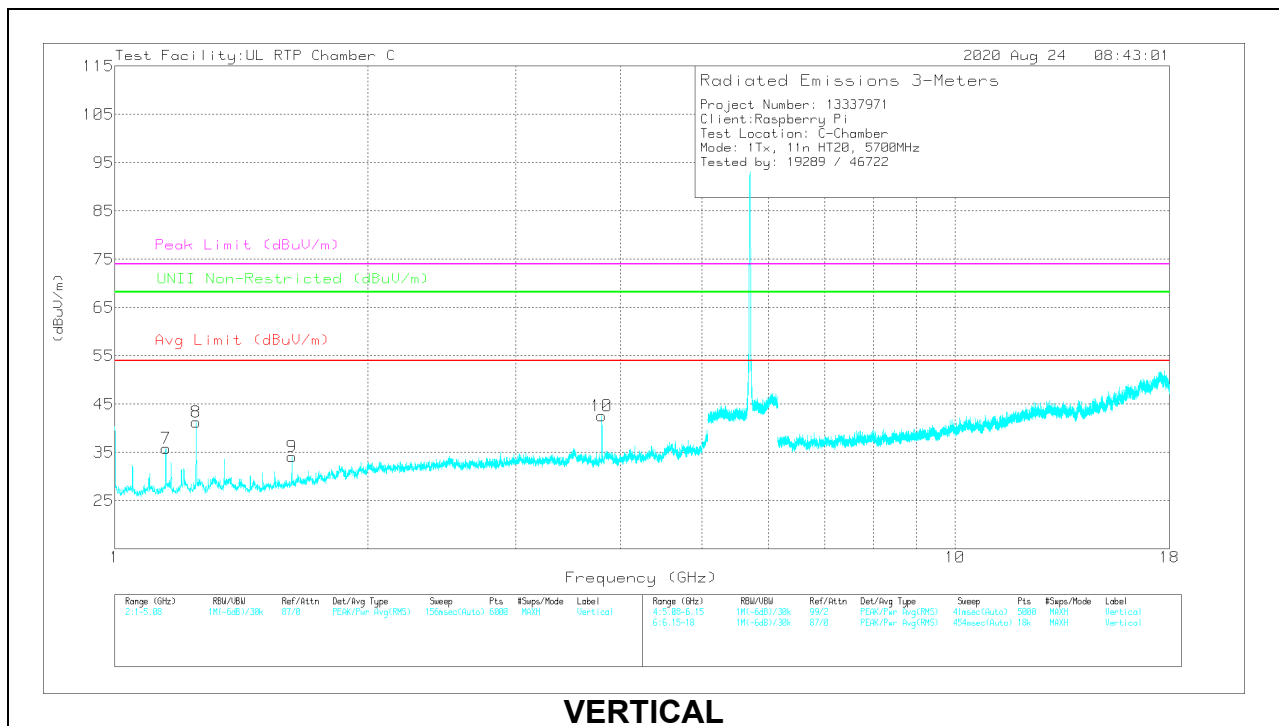
PK-U - Maximum Peak

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	*** 1.15039	67.07	PK-U	27.4	-54.9	39.57	-	-	74	-34.43	-	-	333	108	H
	*** 1.15003	59.37	ADV	27.4	-54.9	31.87	54	-22.13	-	-	-	-	333	108	H
2	*** 1.16658	66.84	PK-U	27.7	-55	39.54	-	-	74	-34.46	-	-	3	104	H
	*** 1.16667	59.59	ADV	27.7	-55	32.29	54	-21.71	-	-	-	-	3	104	H
3	* 1.25033	69.23	PK-U	28.6	-55.3	42.53	-	-	74	-31.47	-	-	171	365	H
	* 1.25003	62.96	ADV	28.6	-55.3	36.26	54	-17.74	-	-	-	-	171	365	H
4	*** 1.62505	66.08	PK-U	28.5	-54.1	40.48	-	-	74	-33.52	-	-	189	398	H
	*** 1.62496	58.86	ADV	28.5	-54.1	33.26	54	-20.74	-	-	-	-	189	398	H
6	*** 3.79997	63.28	PK-U	33.6	-49.8	47.08	-	-	74	-26.92	-	-	316	399	H
	*** 3.79997	58.37	ADV	33.6	-49.8	42.17	54	-11.83	-	-	-	-	316	399	H
7	*** 1.1499	66.89	PK-U	27.4	-54.9	39.39	-	-	74	-34.61	-	-	26	397	V
	*** 1.15002	59.04	ADV	27.4	-54.9	31.54	54	-22.46	-	-	-	-	26	397	V
8	* 1.2504	68.7	PK-U	28.6	-55.3	42	-	-	74	-32	-	-	209	396	V
	* 1.25004	62.52	ADV	28.6	-55.3	35.82	54	-18.18	-	-	-	-	209	396	V
9	*** 1.62491	67.26	PK-U	28.5	-54.1	41.66	-	-	74	-32.34	-	-	127	369	V
	*** 1.62506	60.97	ADV	28.5	-54.1	35.37	54	-18.63	-	-	-	-	127	369	V
10	*** 3.80016	62.36	PK-U	33.6	-49.8	46.16	-	-	74	-27.84	-	-	353	396	V
	*** 3.79996	56.71	ADV	33.6	-49.8	40.51	54	-13.49	-	-	-	-	353	396	V
5	1.79999	64.77	PK-U	30.2	-54.2	40.77	-	-	-	-	68.2	-27.43	169	324	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

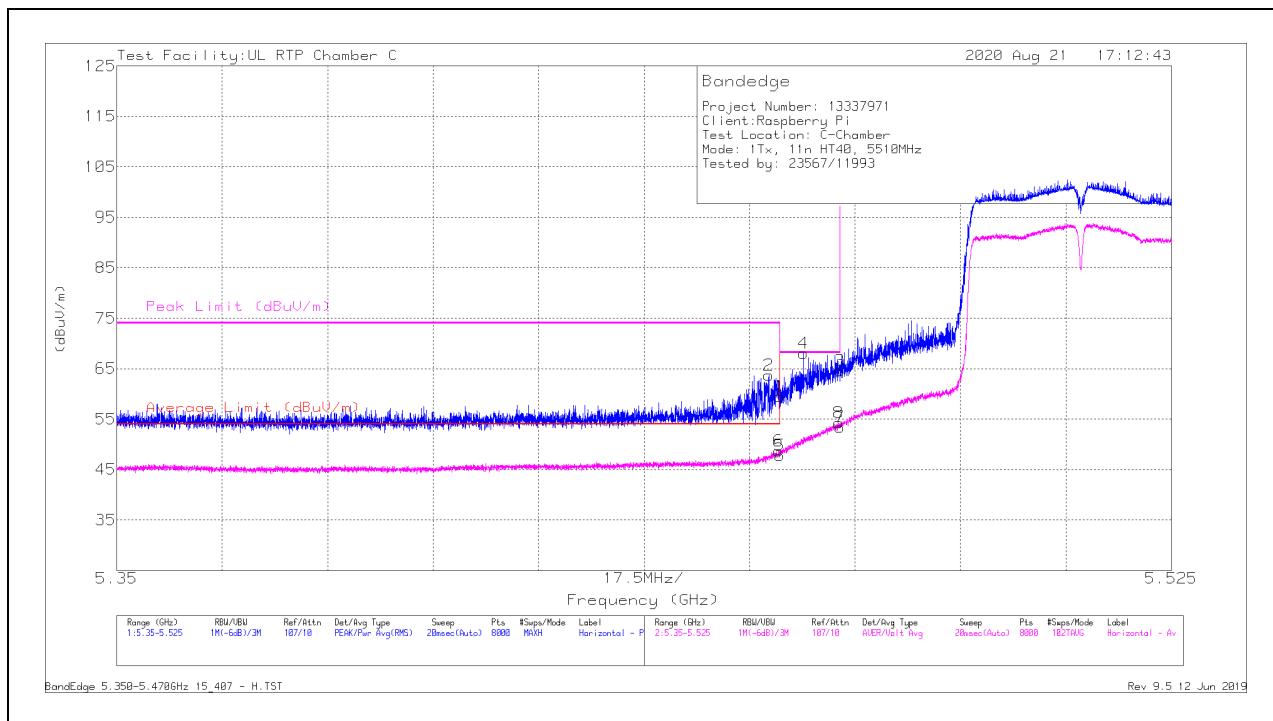
ADV - Linear Voltage Average

9.1.11. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 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	* ** 5.45998	40.45	Pk	34.6	-15.6	0	59.45	-	-	74	-14.55	162	396	H
2	* ** 5.45819	44.69	Pk	34.6	-15.6	0	63.69	-	-	74	-10.31	162	396	H
5	* ** 5.45998	28.57	ADV	34.6	-15.6	.22	47.79	54	-6.21	-	-	162	396	H
6	* ** 5.45981	29.43	ADV	34.6	-15.6	.22	48.65	54	-5.35	-	-	162	396	H
4	5.46394	48.81	Pk	34.6	-15.4	0	68.01	-	-	68.2	-.19	162	396	H
3	5.46998	45.34	Pk	34.6	-15.4	0	64.54	-	-	68.2	-3.66	162	396	H

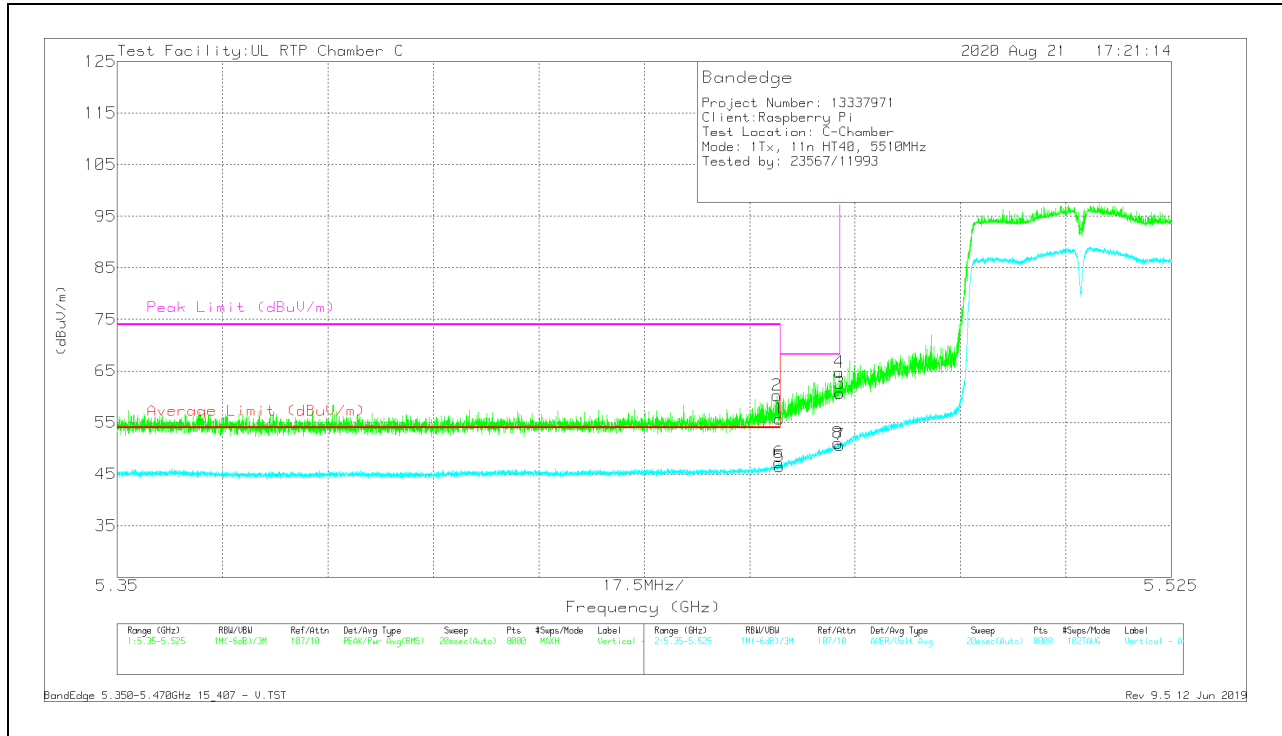
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	* ** 5.45998	36.74	Pk	34.6	-15.6	0	55.74	-	-	74	-18.26	227	397	V
2	* ** 5.45957	41.25	Pk	34.6	-15.6	0	60.25	-	-	74	-13.75	227	397	V
5	* ** 5.45998	27.24	ADV	34.6	-15.6	.22	46.46	54	-7.54	-	-	227	397	V
6	* ** 5.45987	28.03	ADV	34.6	-15.6	.22	47.25	54	-6.75	-	-	227	397	V
4	5.46983	45.53	Pk	34.6	-15.4	0	64.73	-	-	68.2	-3.47	227	397	V
3	5.46998	41.51	Pk	34.6	-15.4	0	60.71	-	-	68.2	-7.49	227	397	V

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

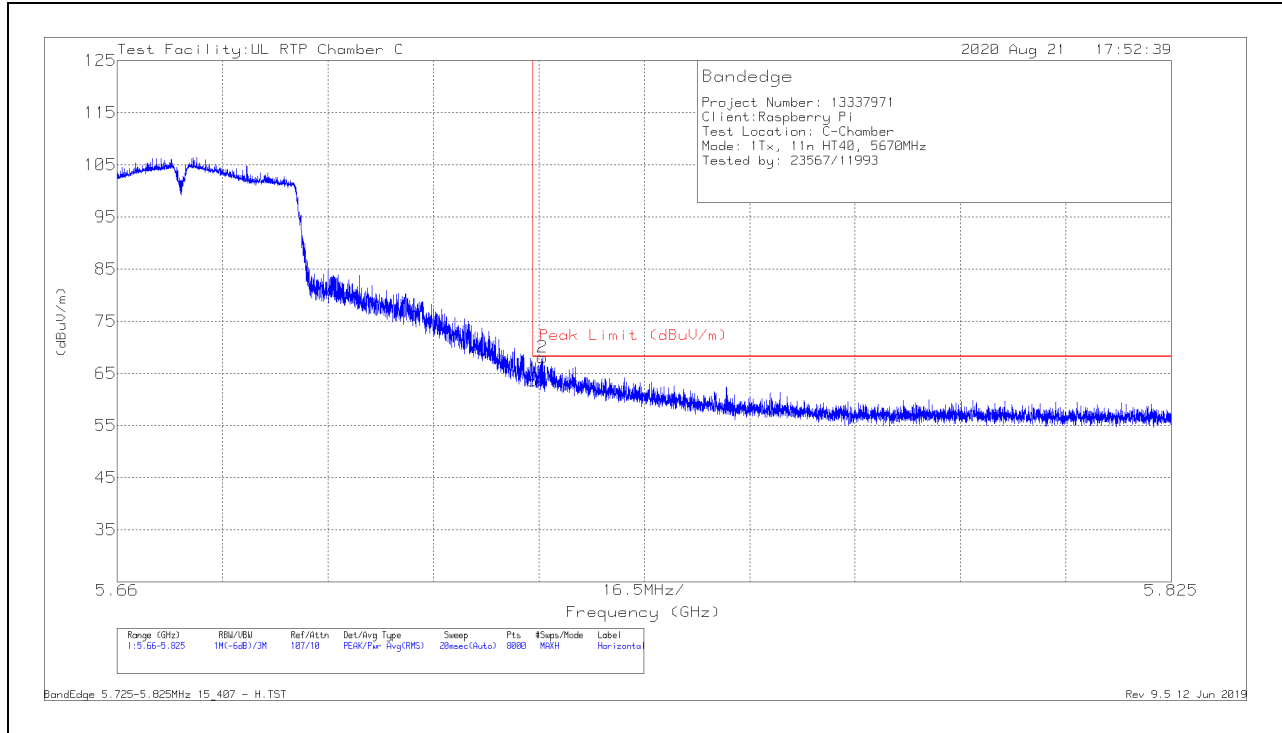
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

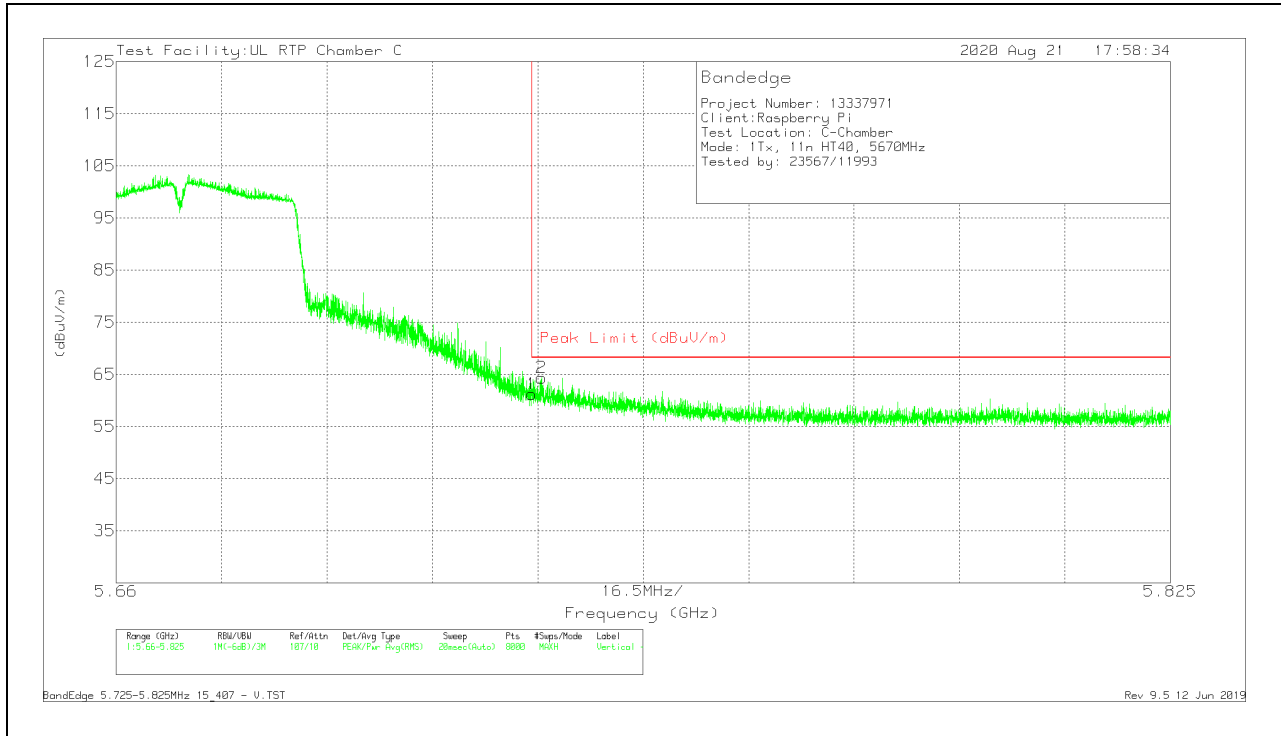
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	43.77	Pk	34.6	-14.8	63.57	68.2	-4.63	161	394	H
2	5.72657	48.25	Pk	34.6	-14.8	68.05	68.2	-.15	161	394	H

Pk - Peak detector

VERTICAL RESULT

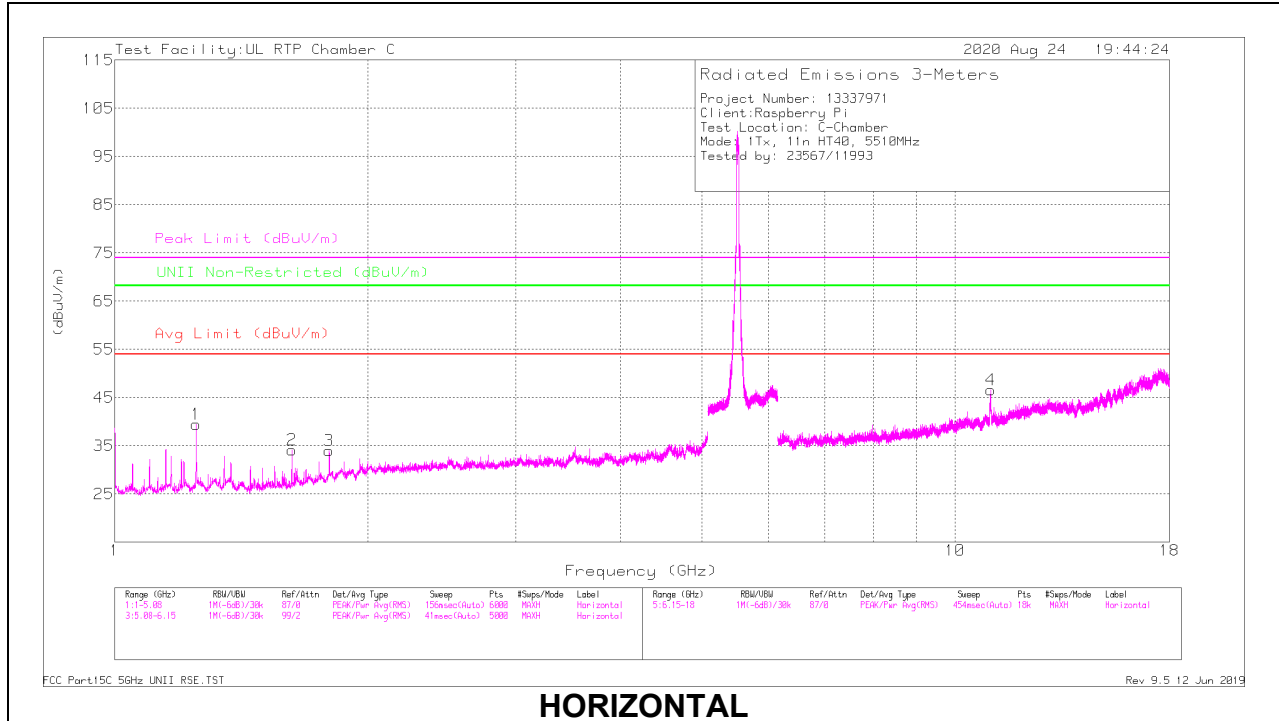


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	41.4	Pk	34.6	-14.8	61.2	68.2	-7	241	398	V
2	5.72657	44.53	Pk	34.6	-14.8	64.33	68.2	-3.87	241	398	V

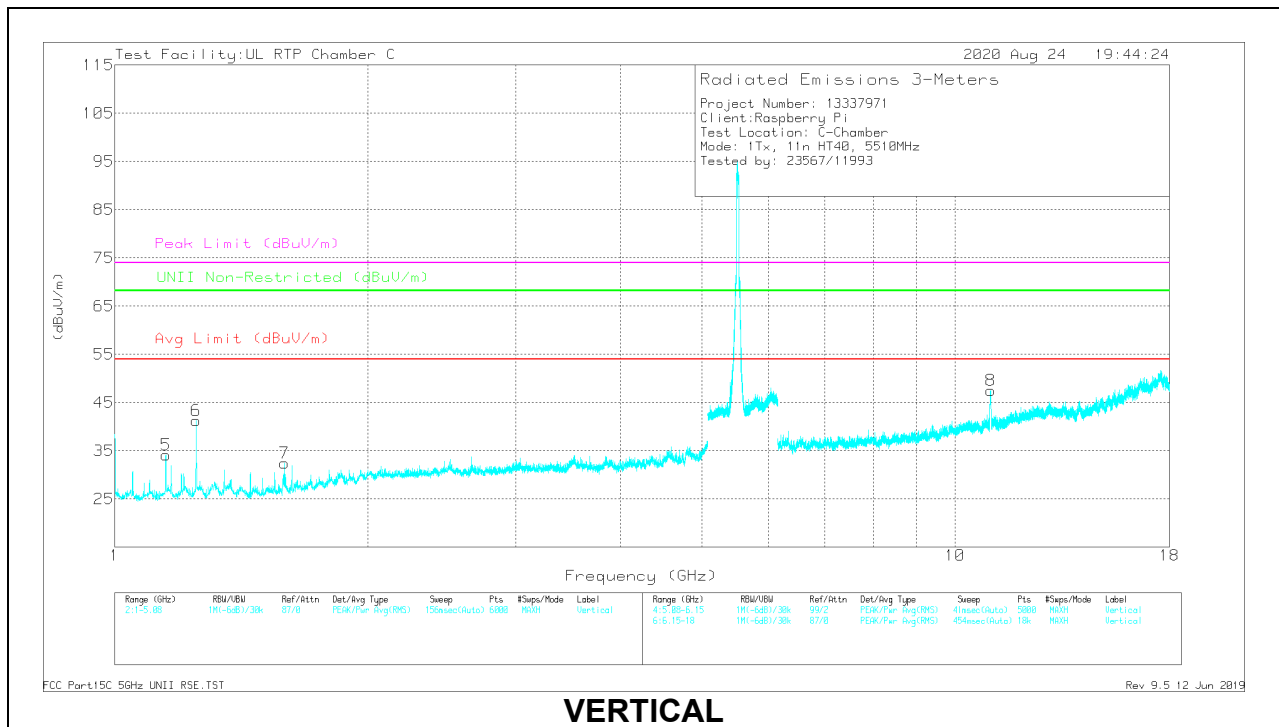
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



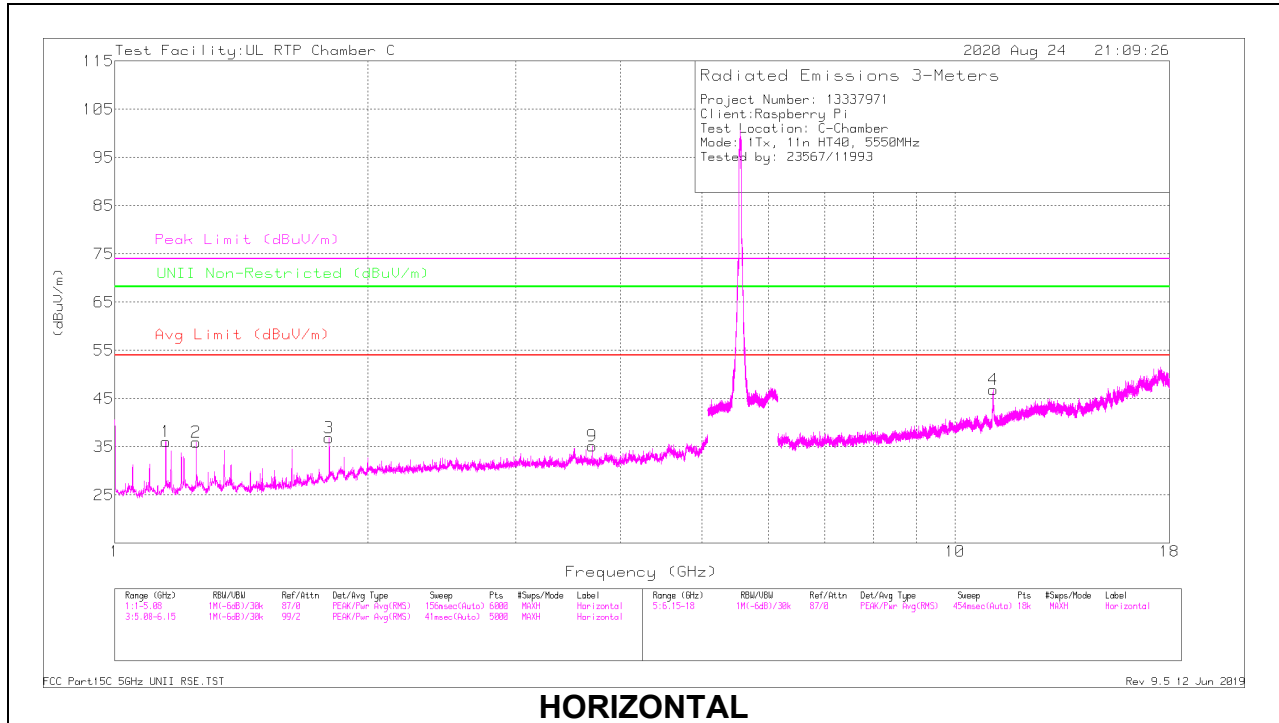
VERTICAL

RADIATED EMISSIONS

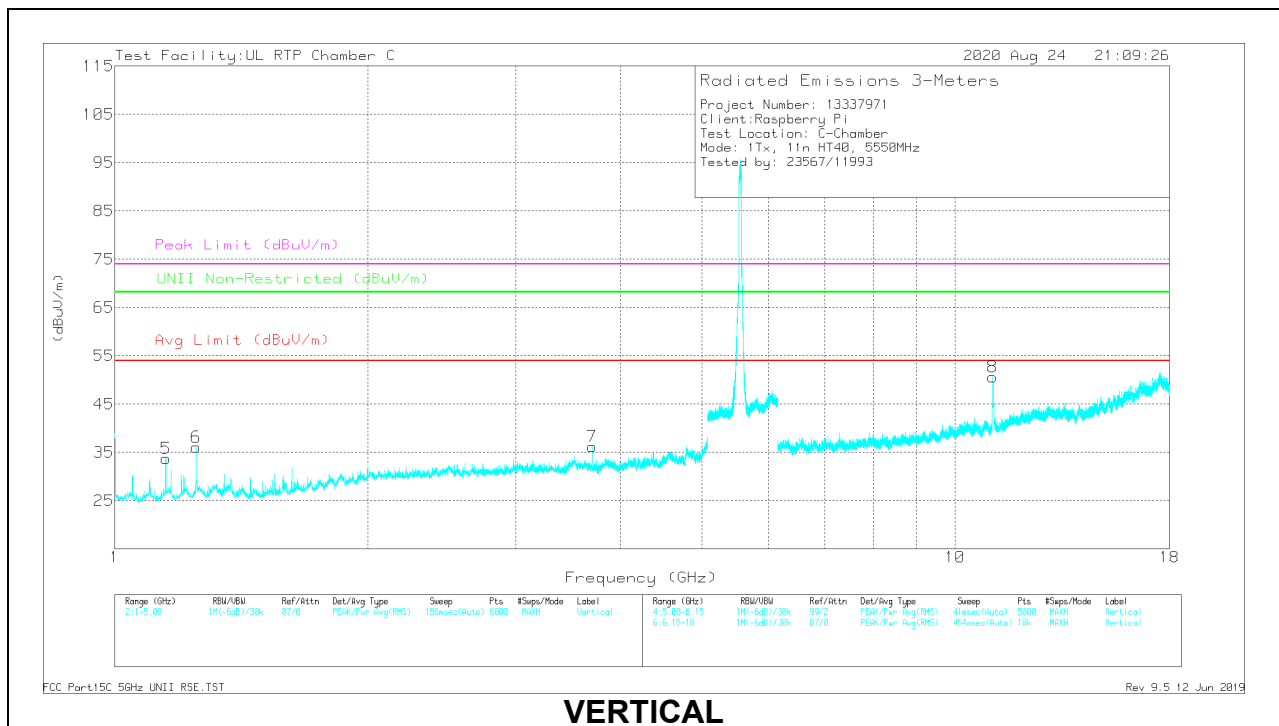
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.2501	71.11	PK-U	28.6	-55.3	0	44.41	-	-	74	-29.59	-	-	180	297	H
	* 1.25005	66.66	ADV	28.6	-55.3	.23	40.19	54	-13.81	-	-	-	-	180	297	H
2	*** 1.62525	64.43	PK-U	28.5	-54.1	0	38.83	-	-	74	-35.17	-	-	205	108	H
	*** 1.62488	58.15	ADV	28.5	-54.1	.23	32.78	54	-21.22	-	-	-	-	205	108	H
5	*** 1.15021	66.5	PK-U	27.4	-54.9	0	39	-	-	74	-35	-	-	76	196	V
	*** 1.15001	59.95	ADV	27.4	-54.9	.23	32.68	54	-21.32	-	-	-	-	76	196	V
6	* 1.25009	69.67	PK-U	28.6	-55.3	0	42.97	-	-	74	-31.03	-	-	321	103	V
	* 1.25002	65.42	ADV	28.6	-55.3	.23	38.95	54	-15.05	-	-	-	-	321	103	V
7	*** 1.59491	60.09	PK-U	28.2	-54.5	0	33.79	-	-	74	-40.21	-	-	44	102	V
	*** 1.59521	47.11	ADV	28.2	-54.5	.23	21.04	54	-32.96	-	-	-	-	44	102	V
4	*** 11.02803	59.6	PK-U	37.8	-42.1	0	55.3	-	-	74	-18.7	-	-	241	235	H
	*** 11.02739	46.12	ADV	37.8	-42.1	.23	42.05	54	-11.95	-	-	-	-	241	235	H
8	*** 11.03189	60.87	PK-U	37.8	-42	0	56.67	-	-	74	-17.33	-	-	274	256	V
	*** 11.03139	47.32	ADV	37.8	-42	.23	43.35	54	-10.65	-	-	-	-	274	256	V
3	1.79985	65.72	PK-U	30.2	-54.2	0	41.72	-	-	-	-	68.2	-26.48	202	224	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)	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	*** 1.15033	67.66	PK-U	27.4	-54.9	0	40.16	-	-	74	-33.84	-	-	360	151	H
	*** 1.15005	61.89	ADV	27.4	-54.9	.23	34.62	54	-19.38	-	-	-	-	360	151	H
2	* 1.25004	66.25	PK-U	28.6	-55.3	0	39.55	-	-	74	-34.45	-	-	0	103	H
	* 1.25005	59.72	ADV	28.6	-55.3	.23	33.25	54	-20.75	-	-	-	-	0	103	H
9	*** 3.69997	57.9	PK-U	33.3	-50.1	0	41.1	-	-	74	-32.9	-	-	90	102	H
	*** 3.7	46.88	ADV	33.3	-50.1	.23	30.31	54	-23.69	-	-	-	-	90	102	H
5	*** 1.15016	67.09	PK-U	27.4	-54.9	0	39.59	-	-	74	-34.41	-	-	80	340	V
	*** 1.15003	60.82	ADV	27.4	-54.9	.23	33.55	54	-20.45	-	-	-	-	80	340	V
6	* 1.24981	66.38	PK-U	28.6	-55.3	0	39.68	-	-	74	-34.32	-	-	98	162	V
	* 1.25004	60.45	ADV	28.6	-55.3	.23	33.98	54	-20.02	-	-	-	-	98	162	V
7	*** 3.69991	58.12	PK-U	33.3	-50.1	0	41.32	-	-	74	-32.68	-	-	347	102	V
	*** 3.70007	48.22	ADV	33.3	-50.1	.23	31.65	54	-22.35	-	-	-	-	347	102	V
4	*** 11.11	58.25	PK-U	37.8	-42.7	0	53.35	-	-	74	-20.65	-	-	228	245	H
	*** 11.10865	45.09	ADV	37.8	-42.6	.23	40.52	54	-13.48	-	-	-	-	228	245	H
8	*** 11.09896	63.85	PK-U	37.7	-42.8	0	58.75	-	-	74	-15.25	-	-	279	285	V
	*** 11.09881	50.58	ADV	37.7	-42.8	.23	45.71	54	-8.29	-	-	-	-	279	285	V
3	1.80007	63.39	PK-U	30.2	-54.2	0	39.39	-	-	-	-	68.2	-28.81	82	218	H

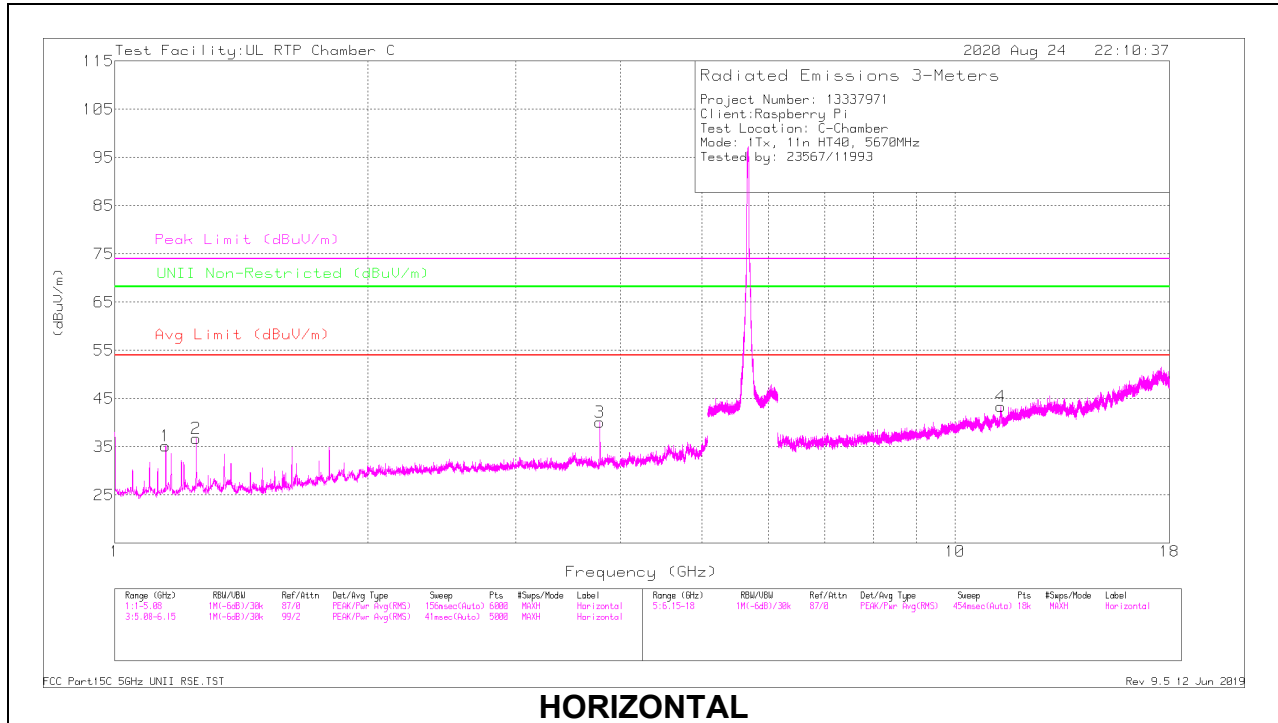
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

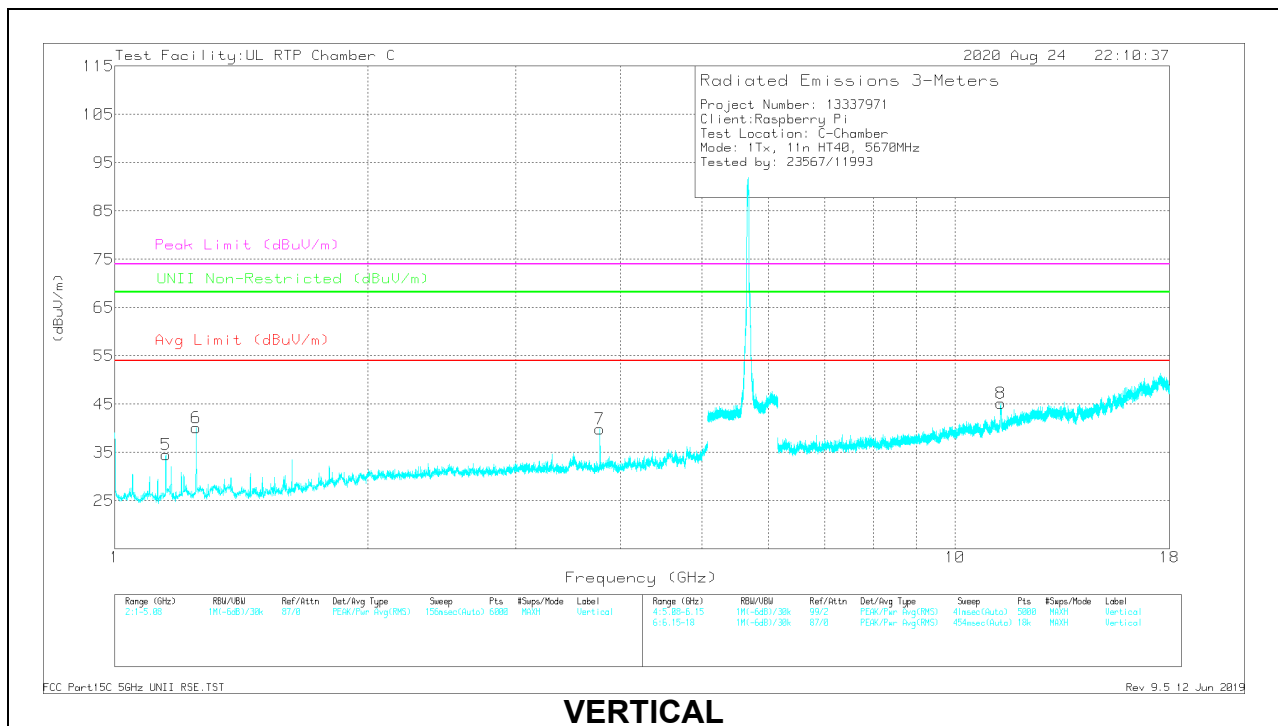
PK-U - Maximum Peak

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	*** 1.15006	67.87	PK-U	27.4	-54.9	0	40.37	-	-	74	-33.63	-	-	6	200	H
	*** 1.15002	61.38	ADV	27.4	-54.9	.23	34.11	54	-19.89	-	-	-	-	6	200	H
2	* 1.2503	67.08	PK-U	28.6	-55.3	0	40.38	-	-	74	-33.62	-	-	319	102	H
	* 1.24999	61.66	ADV	28.6	-55.3	.23	35.19	54	-18.81	-	-	-	-	319	102	H
3	*** 3.77996	60.44	PK-U	33.5	-50.2	0	43.74	-	-	74	-30.26	-	-	315	102	H
	*** 3.78001	52.91	ADV	33.5	-50.1	.23	36.54	54	-17.46	-	-	-	-	315	102	H
5	*** 1.15025	66.53	PK-U	27.4	-54.9	0	39.03	-	-	74	-34.97	-	-	82	198	V
	*** 1.15005	60.61	ADV	27.4	-54.9	.23	33.34	54	-20.66	-	-	-	-	82	198	V
6	* 1.25003	68.6	PK-U	28.6	-55.3	0	41.9	-	-	74	-32.1	-	-	319	102	V
	* 1.25002	64.03	ADV	28.6	-55.3	.23	37.56	54	-16.44	-	-	-	-	319	102	V
7	*** 3.77984	62.82	PK-U	33.5	-50.2	0	46.12	-	-	74	-27.88	-	-	347	229	V
	*** 3.77998	55.82	ADV	33.5	-50.2	.23	39.35	54	-14.65	-	-	-	-	347	229	V
4	*** 11.33503	54.31	PK-U	38	-42.9	0	49.41	-	-	74	-24.59	-	-	48	211	H
	*** 11.3334	40.98	ADV	38	-42.8	.23	36.41	54	-17.59	-	-	-	-	48	211	H
8	*** 11.33889	61.68	PK-U	38	-43	0	56.68	-	-	74	-17.32	-	-	290	310	V
	*** 11.33861	47.48	ADV	38	-43	.23	42.71	54	-11.29	-	-	-	-	290	310	V

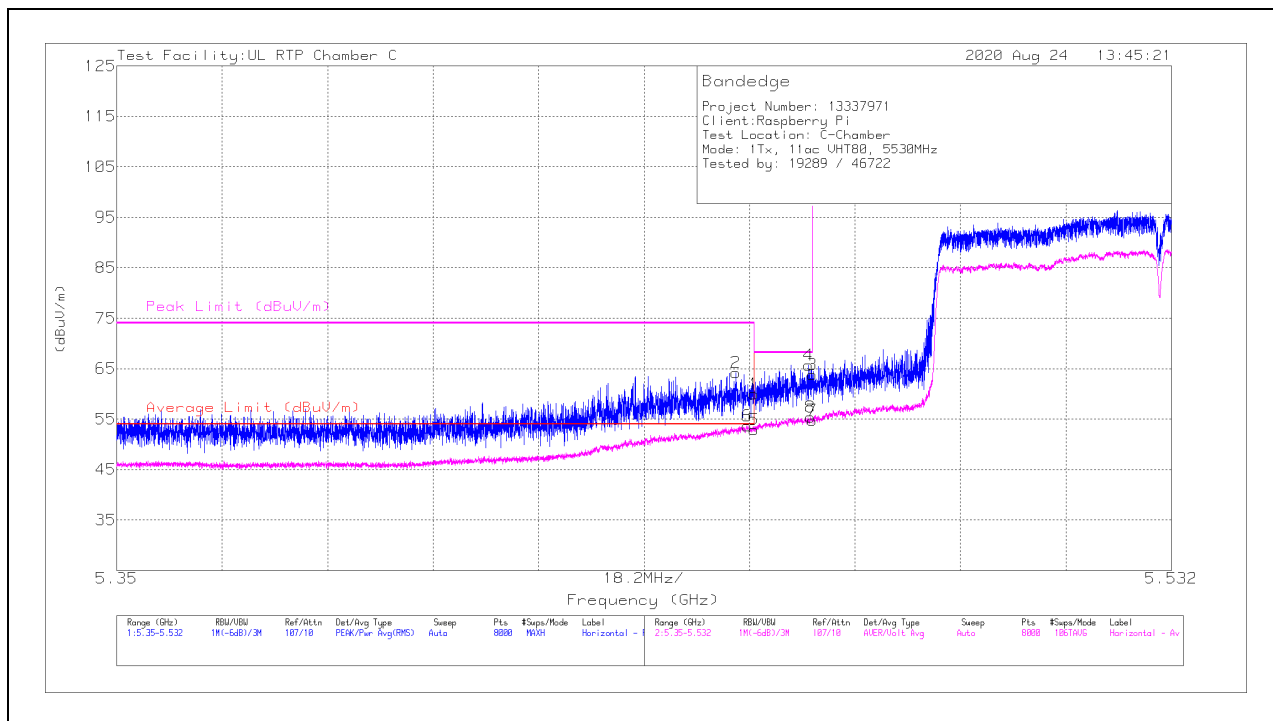
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

9.1.12. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 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	* ** 5.45999	40.98	Pk	34.6	-15.6	0	59.98	-	-	74	-14.02	147	102	H
2	* ** 5.45687	45.2	Pk	34.6	-15.6	0	64.2	-	-	74	-9.8	147	102	H
5	* ** 5.45999	33.36	ADV	34.6	-15.6	.55	52.91	54	-1.09	-	-	147	102	H
6	* ** 5.45876	34.09	ADV	34.6	-15.6	.55	53.64	54	-0.36	-	-	147	102	H
4	5.46934	46.53	Pk	34.6	-15.4	0	65.73	-	-	68.2	-2.47	147	102	H
3	5.47	44.57	Pk	34.6	-15.4	0	63.77	-	-	68.2	-4.43	147	102	H

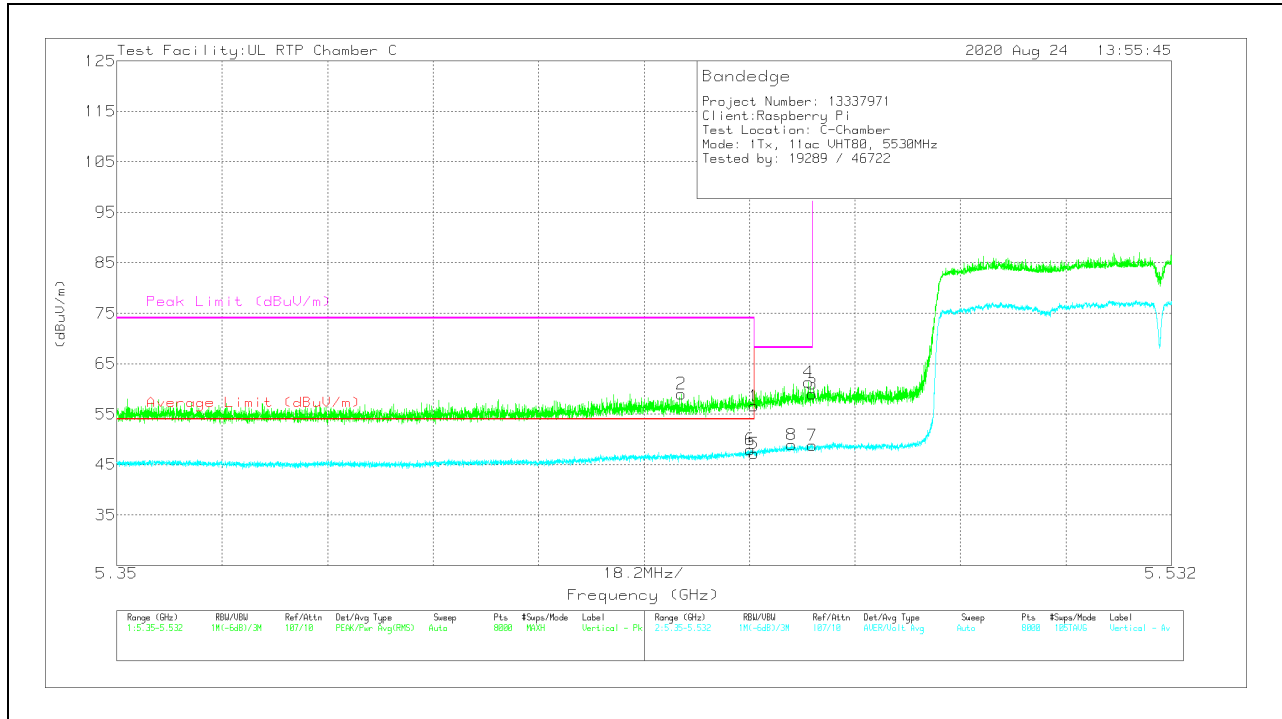
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - 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	* ** 5.45999	37.66	Pk	34.6	-15.6	0	56.66	-	-	74	-17.34	346	104	V
2	* ** 5.44745	39.94	Pk	34.6	-15.5	0	59.04	-	-	74	-14.96	346	104	V
5	* ** 5.45999	27.73	ADV	34.6	-15.6	.42	47.15	54	-6.85	-	-	346	104	V
6	* ** 5.45928	28.57	ADV	34.6	-15.6	.42	47.99	54	-6.01	-	-	346	104	V
4	5.46941	42.19	Pk	34.6	-15.4	0	61.39	-	-	68.2	-6.81	346	104	V
3	5.47	39.8	Pk	34.6	-15.4	0	59	-	-	68.2	-9.2	346	104	V

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

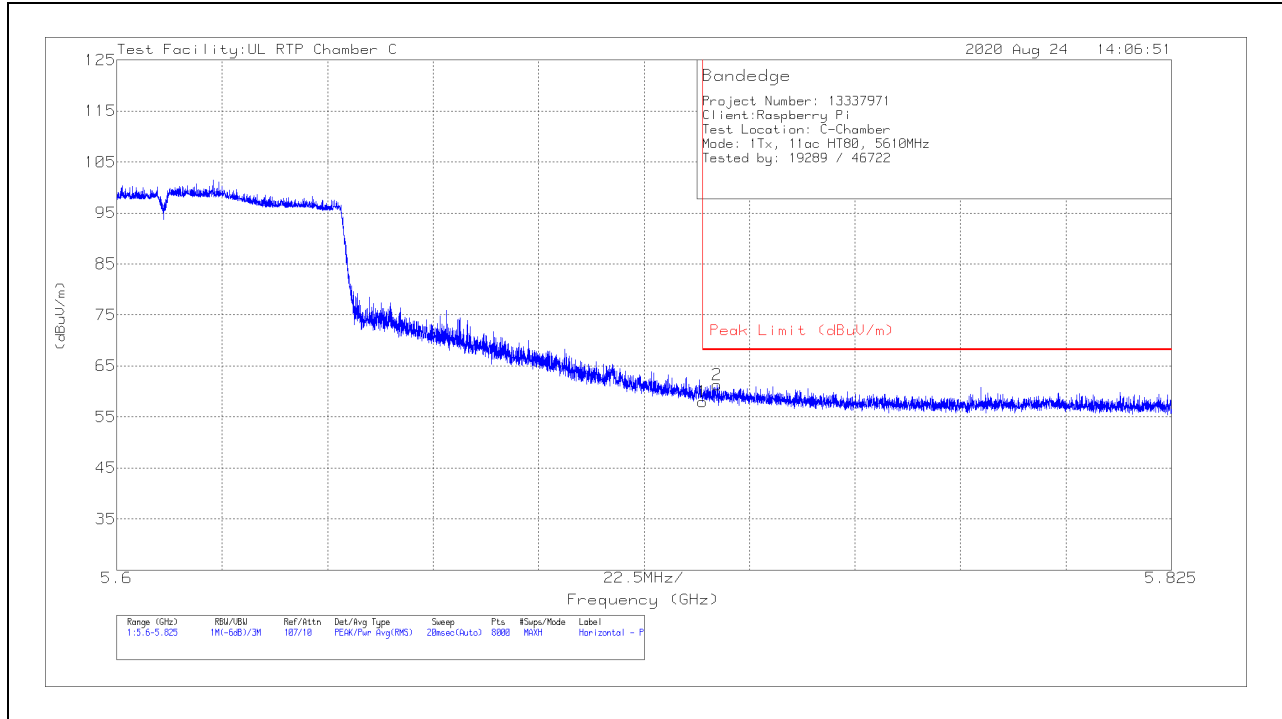
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

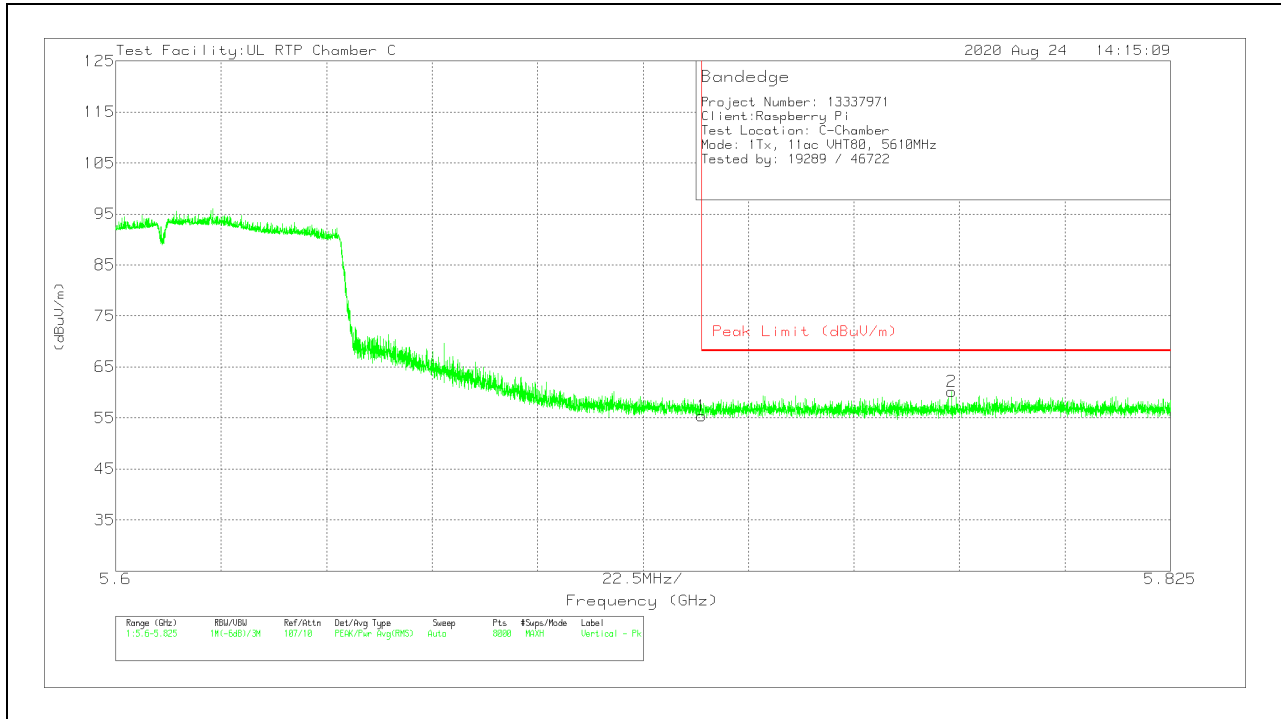
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	38.15	Pk	34.6	-14.8	0	57.95	68.2	-10.25	154	113	H
2	5.72807	41.51	Pk	34.6	-14.8	0	61.31	68.2	-6.89	154	113	H

Pk - Peak detector

VERTICAL RESULT

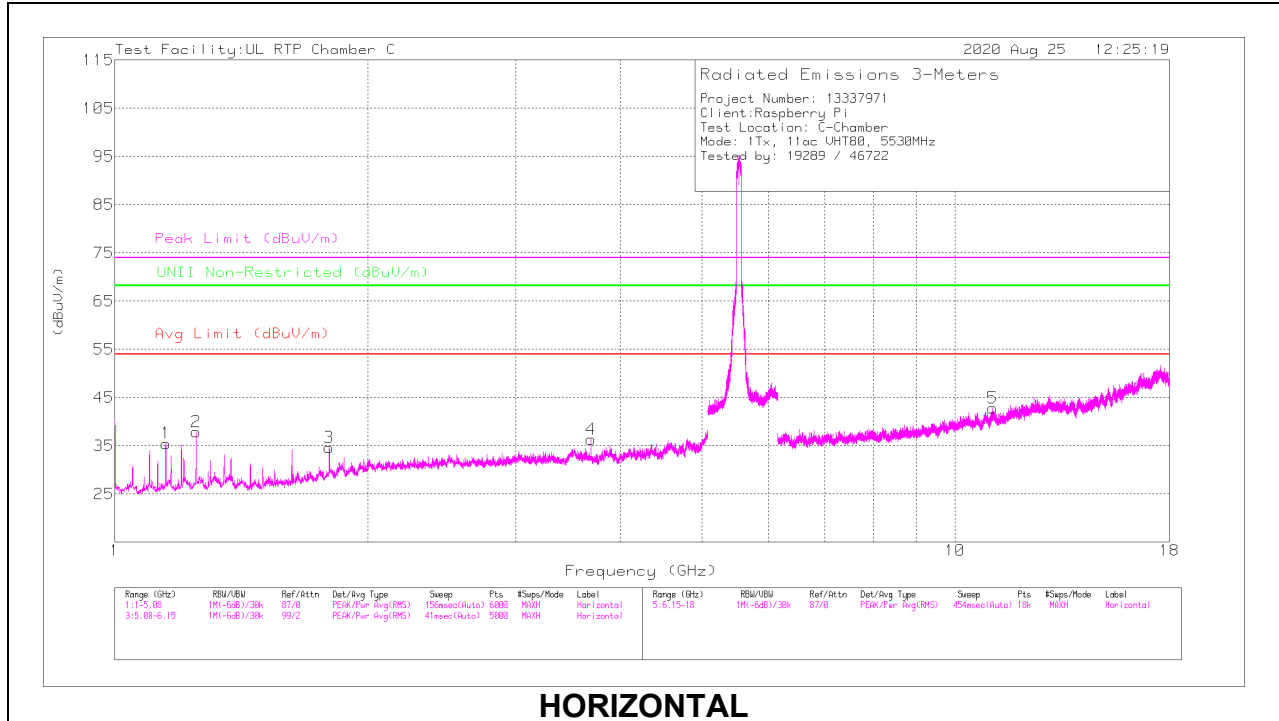


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	35.6	Pk	34.6	-14.8	0	55.4	68.2	-12.8	334	236	V
2	5.77837	40.1	Pk	34.8	-14.7	0	60.2	68.2	-8	334	236	V

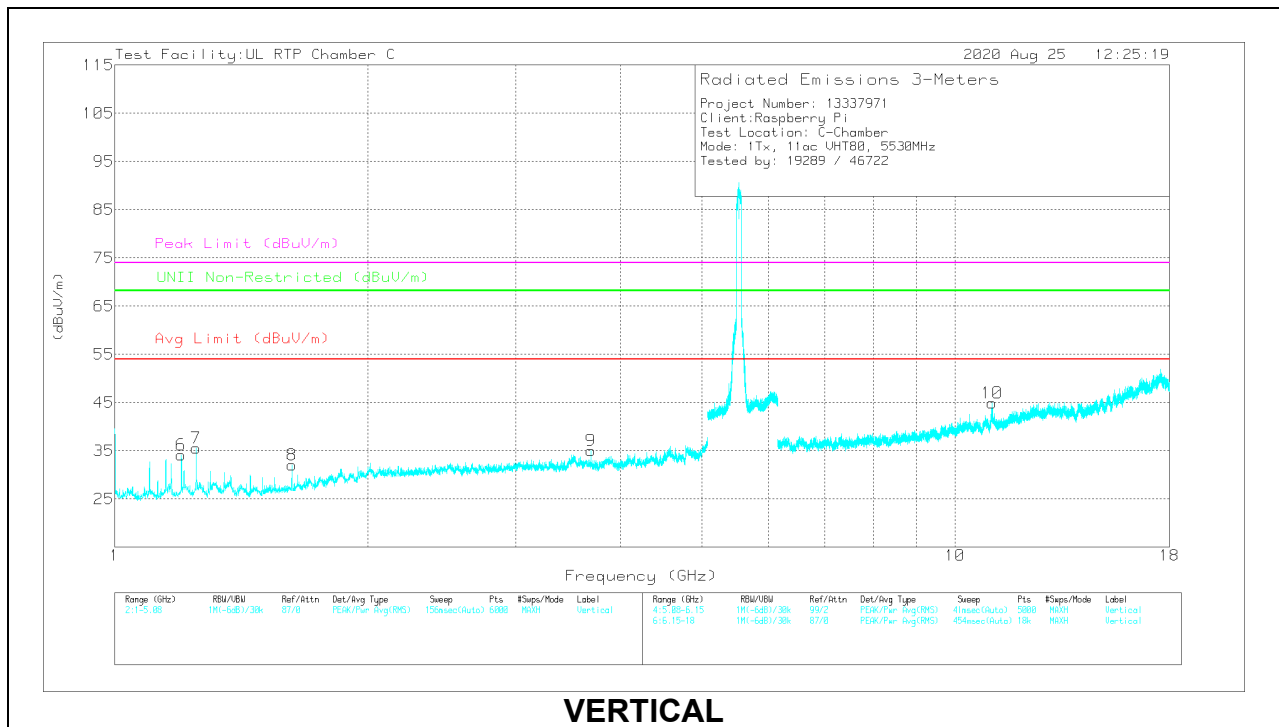
Pk - Peak detector

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	*** 1.15016	67.62	PK-U	27.4	-54.9	0	40.12	-	-	74	-33.88	-	-	16	150	H
	*** 1.15003	61.54	ADV	27.4	-54.9	.42	34.46	54	-19.54	-	-	-	-	16	150	H
2	* 1.25008	67.93	PK-U	28.6	-55.3	0	41.23	-	-	74	-32.77	-	-	360	102	H
	* 1.25002	61.97	ADV	28.6	-55.3	.42	35.69	54	-18.31	-	-	-	-	360	102	H
4	*** 3.68668	59.23	PK-U	33.2	-50	0	42.43	-	-	74	-31.57	-	-	302	395	H
	*** 3.68665	49.04	ADV	33.2	-50	.42	32.66	54	-21.34	-	-	-	-	302	395	H
6	*** 1.20028	66.41	PK-U	28.1	-55.2	0	39.31	-	-	74	-34.69	-	-	92	397	V
	*** 1.20008	58.66	ADV	28.1	-55.2	.42	31.98	54	-22.02	-	-	-	-	92	397	V
7	* 1.25008	67.81	PK-U	28.6	-55.3	0	41.11	-	-	74	-32.89	-	-	256	397	V
	* 1.25	60.52	ADV	28.6	-55.3	.42	34.24	54	-19.76	-	-	-	-	256	397	V
8	*** 1.62471	65.72	PK-U	28.5	-54.1	0	40.12	-	-	74	-33.88	-	-	138	394	V
	*** 1.62503	58.18	ADV	28.5	-54.1	.42	33	54	-21	-	-	-	-	138	394	V
9	*** 3.68646	59.75	PK-U	33.2	-50	0	42.95	-	-	74	-31.05	-	-	354	396	V
	*** 3.68666	49.69	ADV	33.2	-50	.42	33.31	54	-20.69	-	-	-	-	354	396	V
5	*** 11.07809	54.13	PK-U	37.7	-42.3	0	49.53	-	-	74	-24.47	-	-	202	396	H
	*** 11.07837	40.64	ADV	37.7	-42.3	.42	36.46	54	-17.54	-	-	-	-	202	396	H
10	*** 11.07922	57.5	PK-U	37.7	-42.2	0	53	-	-	74	-21	-	-	301	335	V
	*** 11.07878	44.34	ADV	37.7	-42.2	.42	40.26	54	-13.74	-	-	-	-	301	335	V
3	1.79998	66.09	PK-U	30.2	-54.2	0	42.09	-	-	-	-	68.2	-26.11	195	357	H

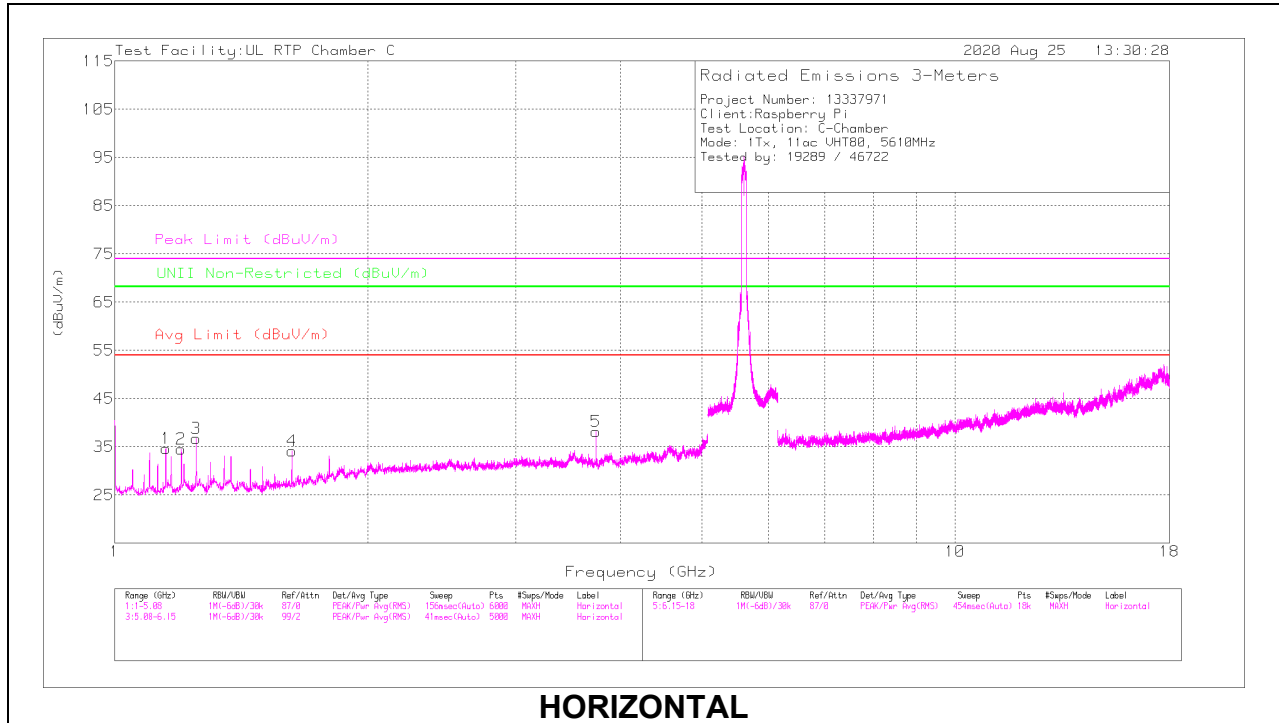
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

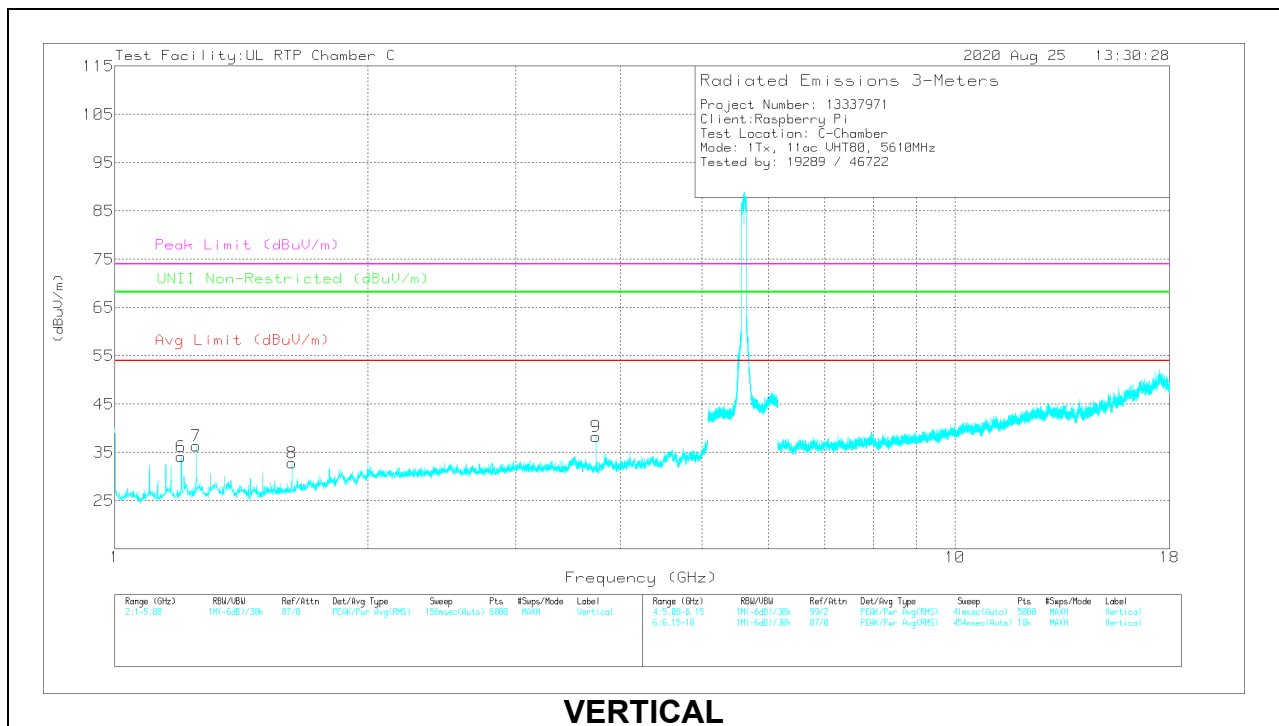
PK-U - Maximum Peak

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	*** 1.15007	67.14	PK-U	27.4	-54.9	0	39.64	-	-	74	-34.36	-	-	14	103	H
	*** 1.15	60.46	ADV	27.4	-54.9	.42	33.38	54	-20.62	-	-	-	-	14	103	H
2	*** 1.19994	66.42	PK-U	28.1	-55.2	0	39.32	-	-	74	-34.68	-	-	357	102	H
	*** 1.20009	59.96	ADV	28.1	-55.2	.42	33.28	54	-20.72	-	-	-	-	357	102	H
3	* 1.25022	68.59	PK-U	28.6	-55.3	0	41.89	-	-	74	-32.11	-	-	357	171	H
	* 1.25001	63.15	ADV	28.6	-55.3	.42	36.87	54	-17.13	-	-	-	-	357	171	H
4	*** 1.62475	65.68	PK-U	28.5	-54.1	0	40.08	-	-	74	-33.92	-	-	69	139	H
	*** 1.62505	58.66	ADV	28.5	-54.1	.42	33.48	54	-20.52	-	-	-	-	69	139	H
5	*** 3.74015	60.58	PK-U	33.4	-50.7	0	43.28	-	-	74	-30.72	-	-	320	102	H
	*** 3.73997	53.28	ADV	33.4	-50.7	.42	36.4	54	-17.6	-	-	-	-	320	102	H
6	*** 1.19982	65.14	PK-U	28.1	-55.2	0	38.04	-	-	74	-35.96	-	-	0	102	V
	*** 1.20002	57.12	ADV	28.1	-55.2	.42	30.44	54	-23.56	-	-	-	-	0	102	V
7	* 1.25011	67.02	PK-U	28.6	-55.3	0	40.32	-	-	74	-33.68	-	-	231	104	V
	* 1.25006	60.69	ADV	28.6	-55.3	.42	34.41	54	-19.59	-	-	-	-	231	104	V
8	*** 1.6248	63.57	PK-U	28.5	-54.1	0	37.97	-	-	74	-36.03	-	-	235	102	V
	*** 1.62506	54.99	ADV	28.5	-54.1	.42	29.81	54	-24.19	-	-	-	-	235	102	V
9	*** 3.73989	59.57	PK-U	33.4	-50.7	0	42.27	-	-	74	-31.73	-	-	352	102	V
	*** 3.74	51.97	ADV	33.4	-50.7	.42	35.09	54	-18.91	-	-	-	-	352	102	V

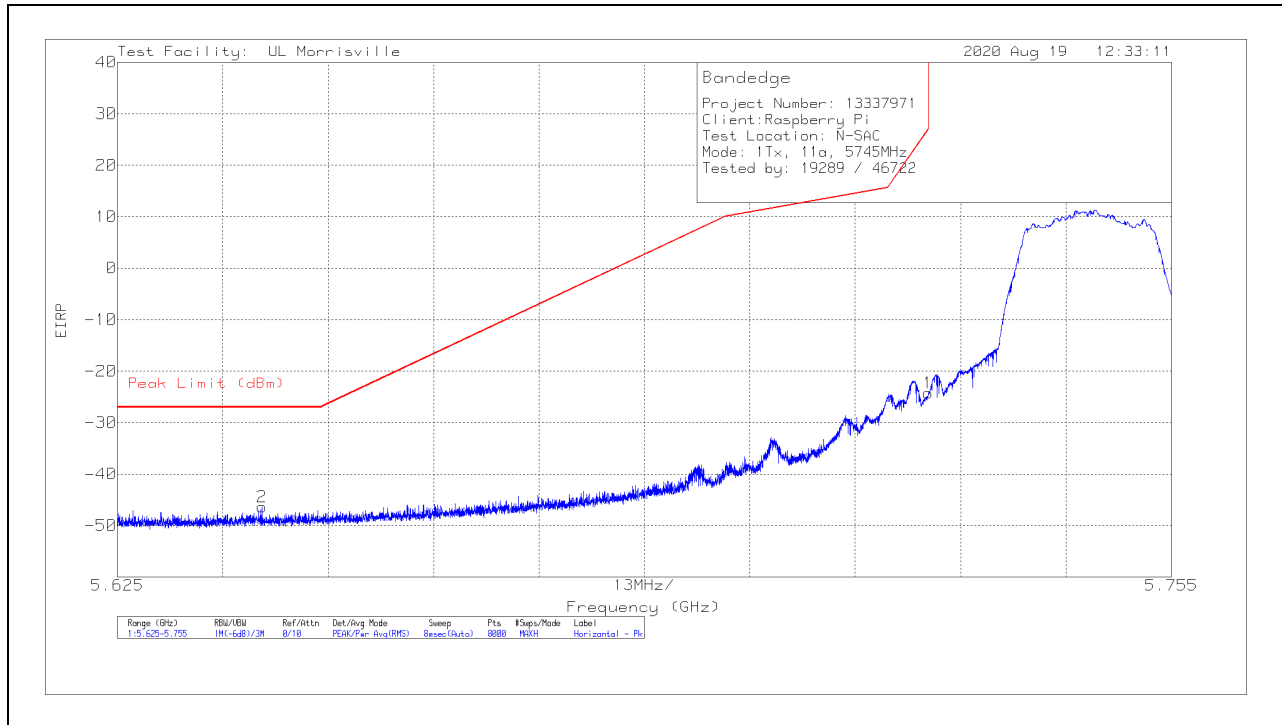
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

9.1.13. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL)

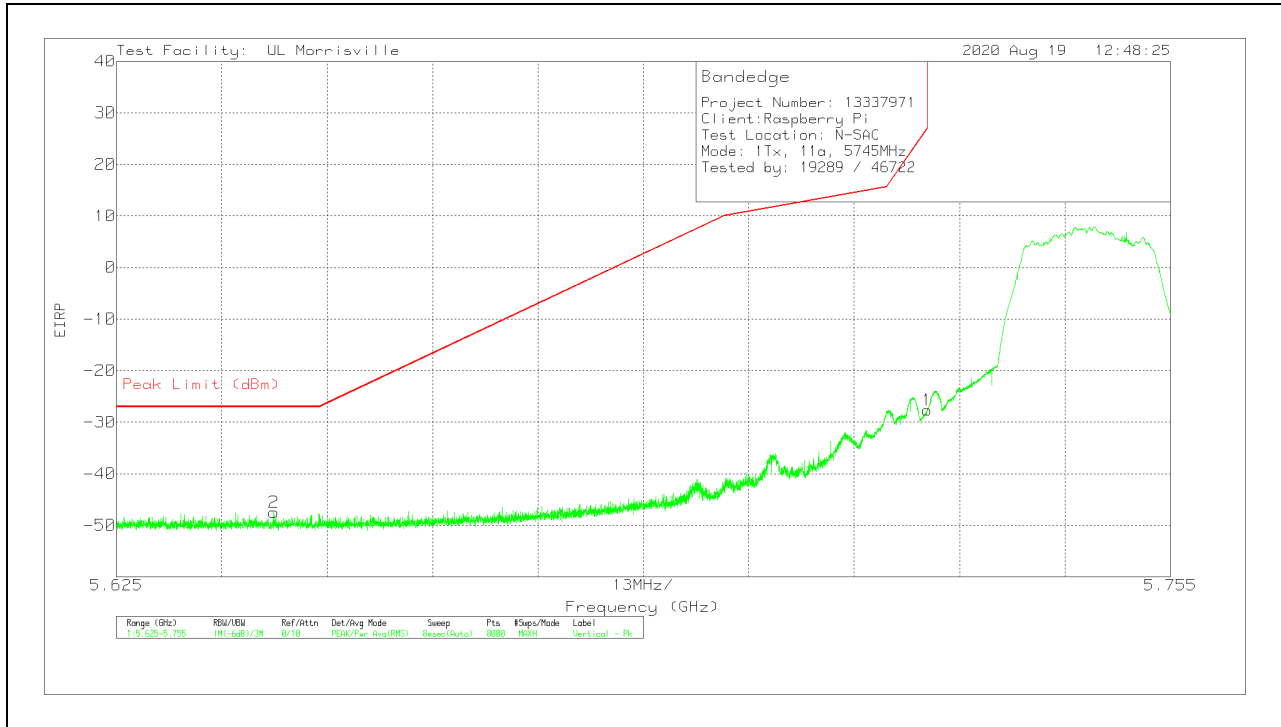
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB(/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64281	-69.77	Pk	34.6	-23	11.8	-46.37	-27	-19.37	113	266	H
1	5.725	-47.76	Pk	34.6	-22.9	11.8	-24.26	27	-51.26	113	266	H

Pk - Peak detector

VERTICAL RESULT

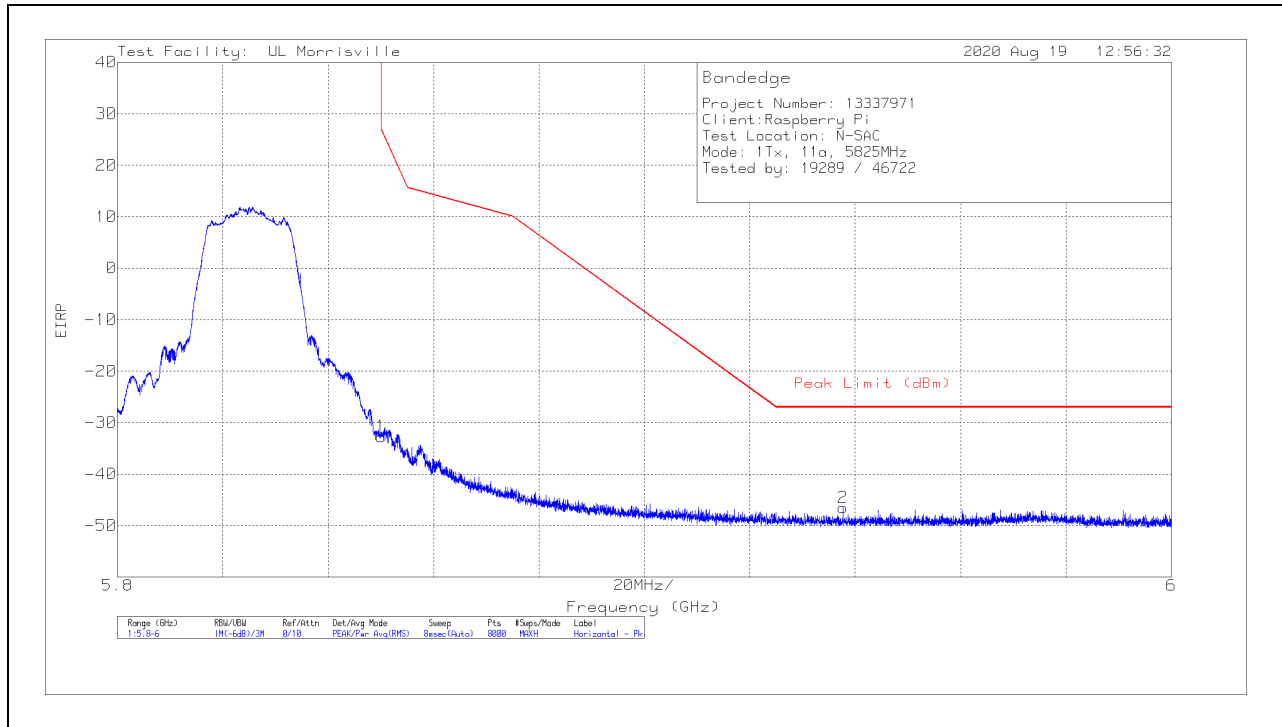


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64442	-70.94	Pk	34.7	-23	11.8	-47.44	-27	-20.44	128	361	V
1	5.725	-51.15	Pk	34.6	-22.9	11.8	-27.65	27	-54.65	128	361	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

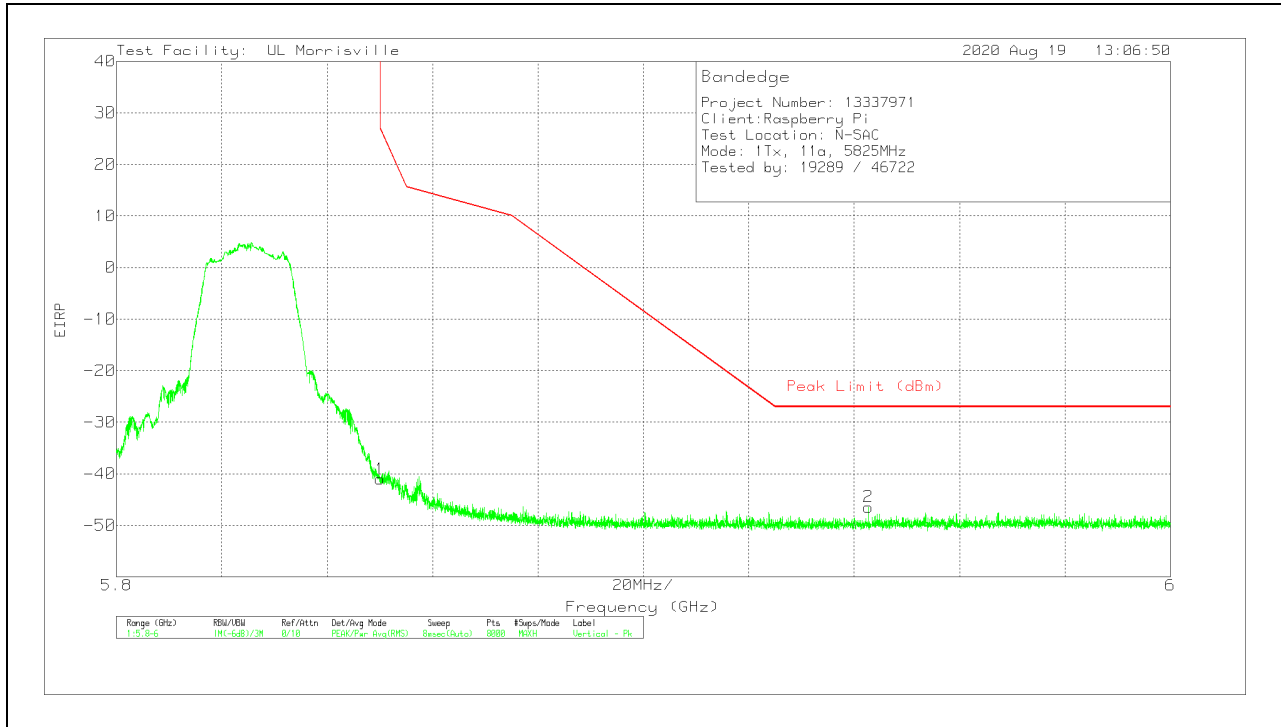
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB(/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-56.91	Pk	34.8	-22.4	11.8	-32.71	26.99	-59.7	82	210	H
2	5.93769	-71.29	Pk	35	-22	11.8	-46.49	-27	-19.49	82	210	H

Pk - Peak detector

VERTICAL RESULT

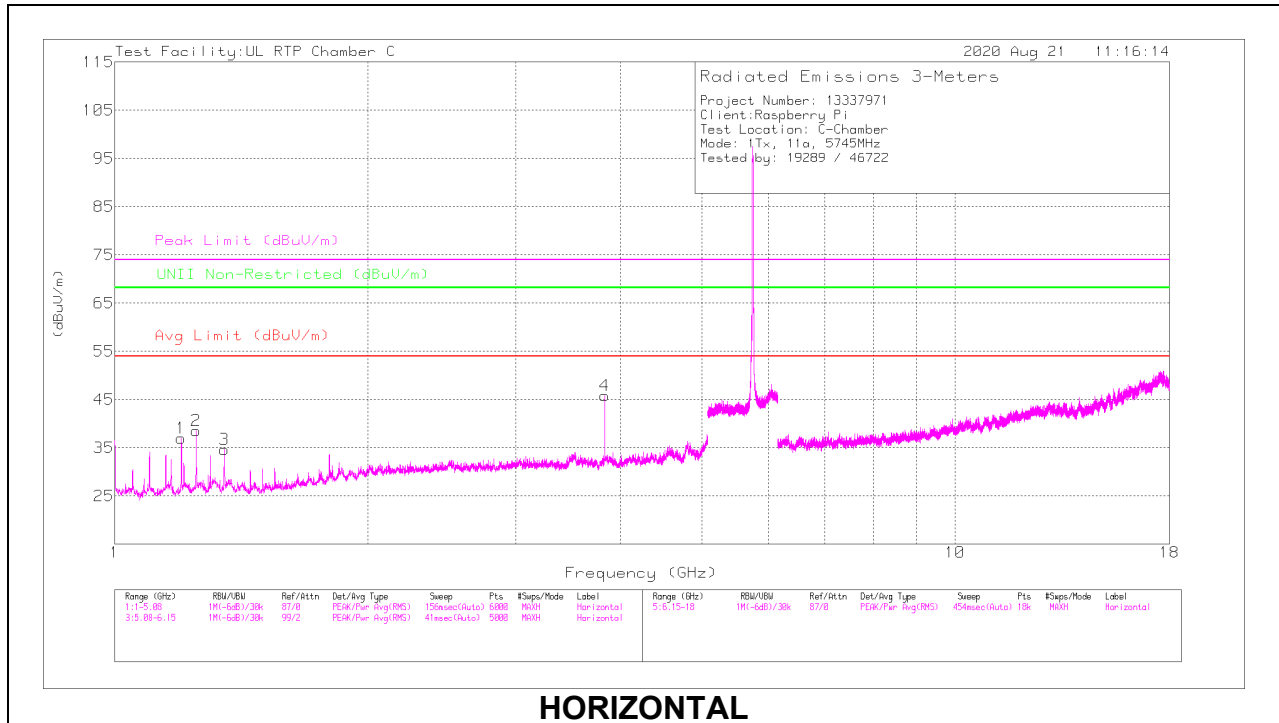


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-65.26	Pk	34.8	-22.4	11.8	-41.06	26.99	-68.05	90	342	V
2	5.94269	-71.23	Pk	35	-22	11.8	-46.43	-27	-19.43	90	342	V

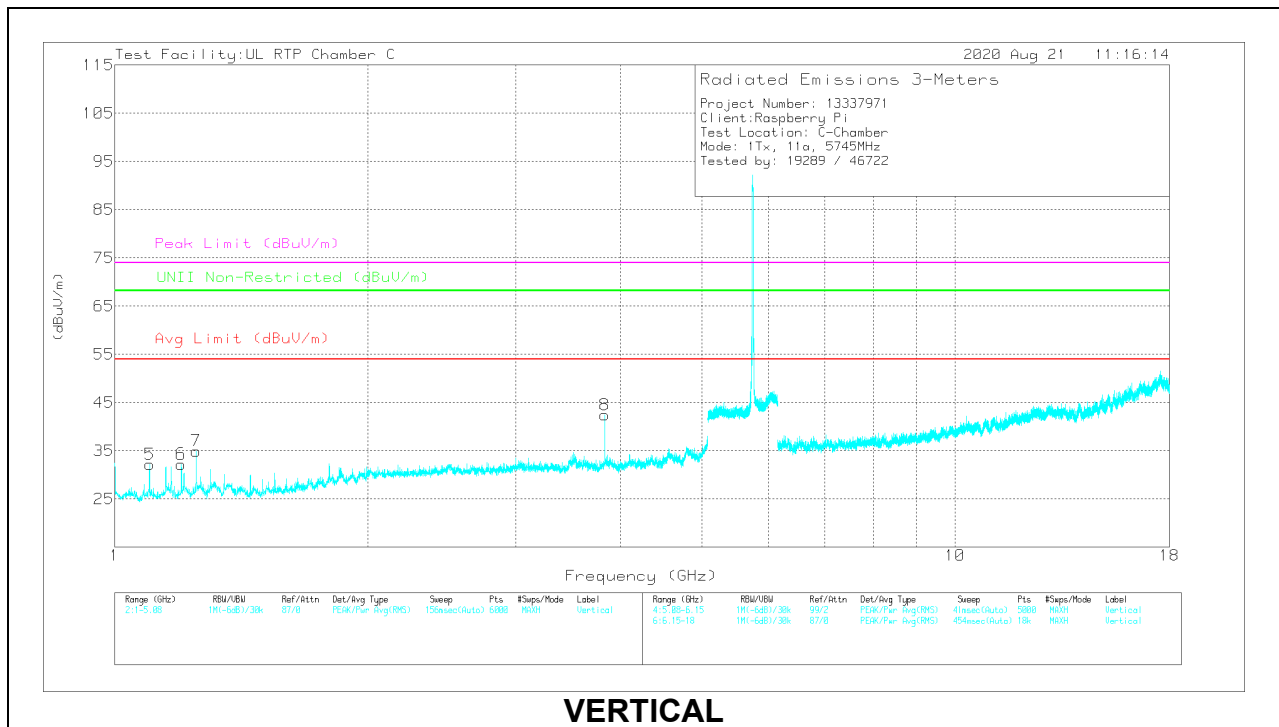
Pk - Peak detector

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	*** 1.20015	68.1	PK-U	28.1	-55.2	41	-	-	74	-33	-	-	178	243	H
	*** 1.20005	62.8	ADV	28.1	-55.2	35.7	54	-18.3	-	-	-	-	178	243	H
2	* 1.25011	71.04	PK-U	28.6	-55.3	44.34	-	-	74	-29.66	-	-	206	225	H
	* 1.25003	66.55	ADV	28.6	-55.3	39.85	54	-14.15	-	-	-	-	206	225	H
3	*** 1.34978	64.67	PK-U	28.8	-54.7	38.77	-	-	74	-35.23	-	-	1	237	H
	*** 1.34999	57.07	ADV	28.8	-54.7	31.17	54	-22.83	-	-	-	-	1	237	H
4	*** 3.8297	63.35	PK-U	33.5	-49	47.85	-	-	74	-26.15	-	-	310	102	H
	*** 3.82997	59.39	ADV	33.5	-49	43.89	54	-10.11	-	-	-	-	310	102	H
5	*** 1.09999	65.85	PK-U	27.3	-55.3	37.85	-	-	74	-36.15	-	-	245	108	V
	*** 1.10002	58.09	ADV	27.3	-55.3	30.09	54	-23.91	-	-	-	-	245	108	V
6	*** 1.19994	65.36	PK-U	28.1	-55.2	38.26	-	-	74	-35.74	-	-	276	103	V
	*** 1.20002	57.2	ADV	28.1	-55.2	30.1	54	-23.9	-	-	-	-	276	103	V
7	* 1.25015	66.59	PK-U	28.6	-55.3	39.89	-	-	74	-34.11	-	-	304	360	V
	* 1.24998	59.11	ADV	28.6	-55.3	32.41	54	-21.59	-	-	-	-	304	360	V
8	*** 3.83008	63	PK-U	33.5	-49	47.5	-	-	74	-26.5	-	-	342	397	V
	*** 3.82999	58.04	ADV	33.5	-49	42.54	54	-11.46	-	-	-	-	342	397	V

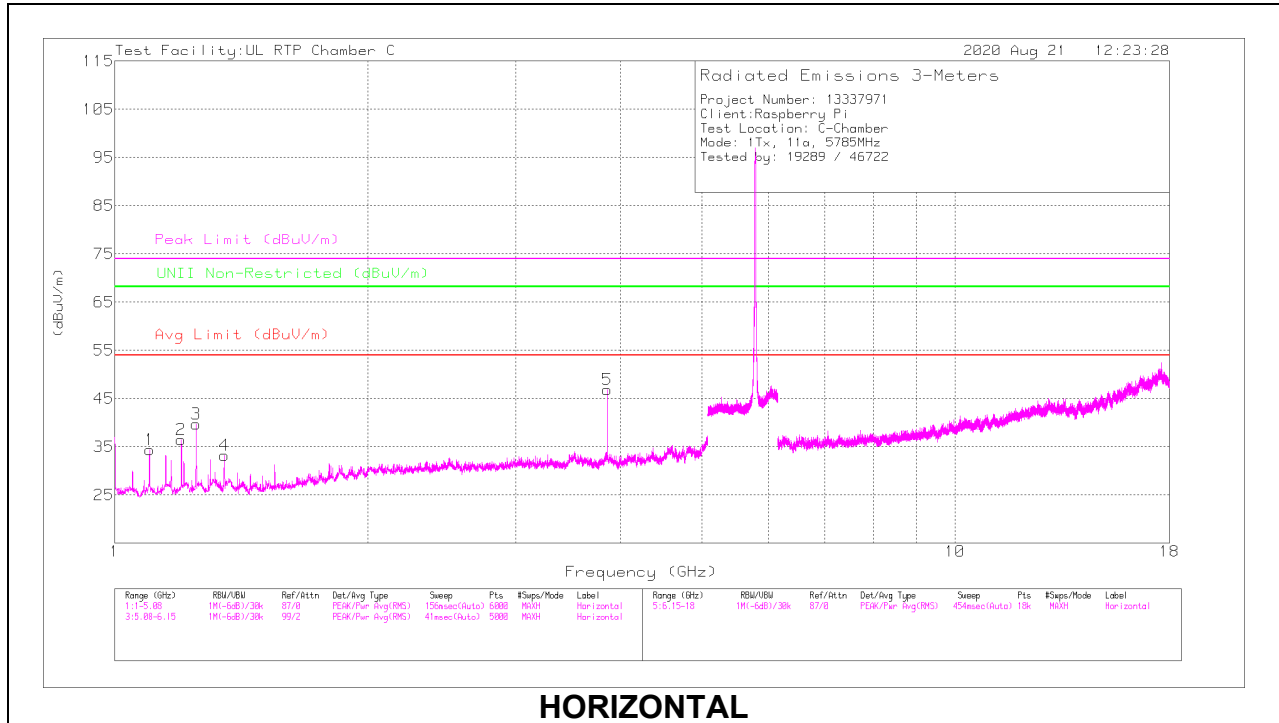
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

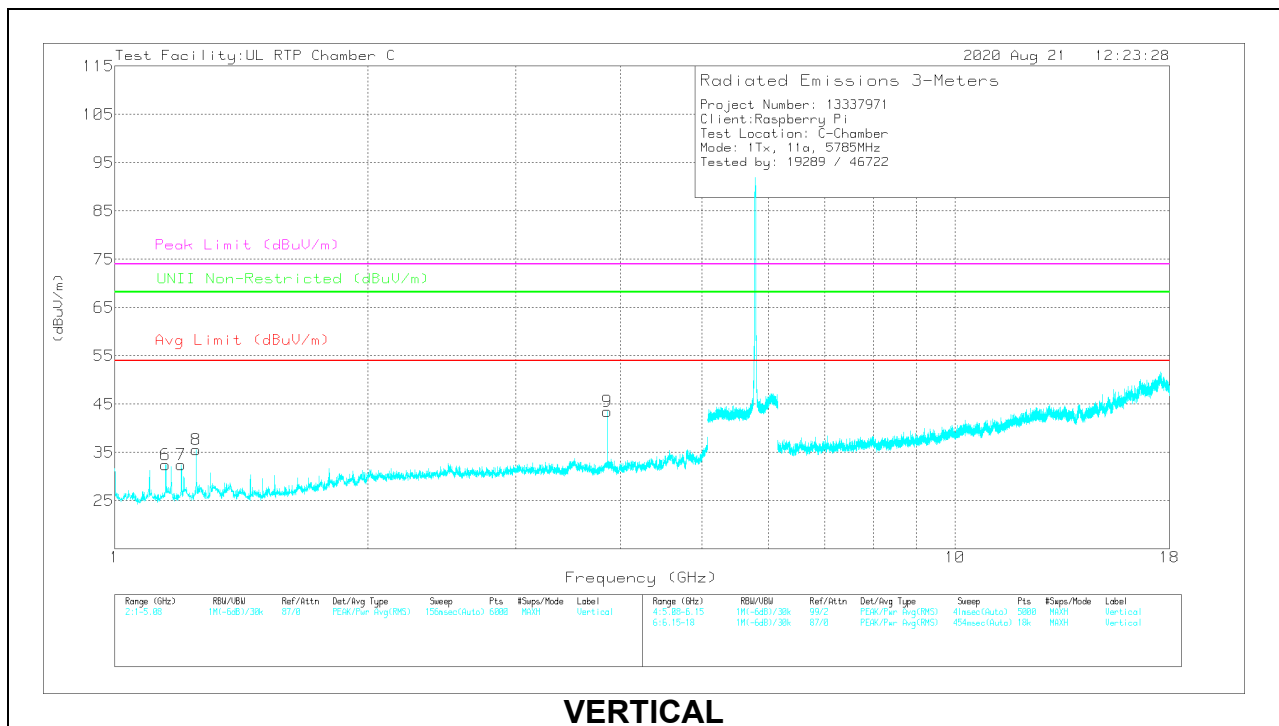
PK-U - Maximum Peak

ADV - Linear Voltage Average

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	*** 1.10009	67.64	PK-U	27.3	-55.3	39.64	-	-	74	-34.36	-	-	23	115	H
	*** 1.10004	61.76	ADV	27.3	-55.3	33.76	54	-20.24	-	-	-	-	23	115	H
2	*** 1.20009	68.06	PK-U	28.1	-55.2	40.96	-	-	74	-33.04	-	-	177	242	H
	*** 1.2	62.31	ADV	28.1	-55.2	35.21	54	-18.79	-	-	-	-	177	242	H
3	* 1.25007	71.38	PK-U	28.6	-55.3	44.68	-	-	74	-29.32	-	-	190	279	H
	* 1.25003	66.73	ADV	28.6	-55.3	40.03	54	-13.97	-	-	-	-	190	279	H
4	*** 1.35016	64.51	PK-U	28.8	-54.7	38.61	-	-	74	-35.39	-	-	2	195	H
	*** 1.35006	56.58	ADV	28.8	-54.7	30.68	54	-23.32	-	-	-	-	2	195	H
5	*** 3.85667	63.49	PK-U	33.5	-49.2	47.79	-	-	74	-26.21	-	-	315	102	H
	*** 3.85666	59.76	ADV	33.5	-49.2	44.06	54	-9.94	-	-	-	-	315	102	H
6	*** 1.15027	64.91	PK-U	27.4	-54.9	37.41	-	-	74	-36.59	-	-	233	102	V
	*** 1.15005	57.17	ADV	27.4	-54.9	29.67	54	-24.33	-	-	-	-	233	102	V
7	*** 1.1997	65.06	PK-U	28.1	-55.2	37.96	-	-	74	-36.04	-	-	277	102	V
	*** 1.20002	57.27	ADV	28.1	-55.2	30.17	54	-23.83	-	-	-	-	277	102	V
8	* 1.24992	68.29	PK-U	28.6	-55.3	41.59	-	-	74	-32.41	-	-	288	364	V
	* 1.25	62.31	ADV	28.6	-55.3	35.61	54	-18.39	-	-	-	-	288	364	V
9	*** 3.85659	63.99	PK-U	33.5	-49.2	48.29	-	-	74	-25.71	-	-	269	396	V
	*** 3.85664	58.81	ADV	33.5	-49.2	43.11	54	-10.89	-	-	-	-	269	396	V

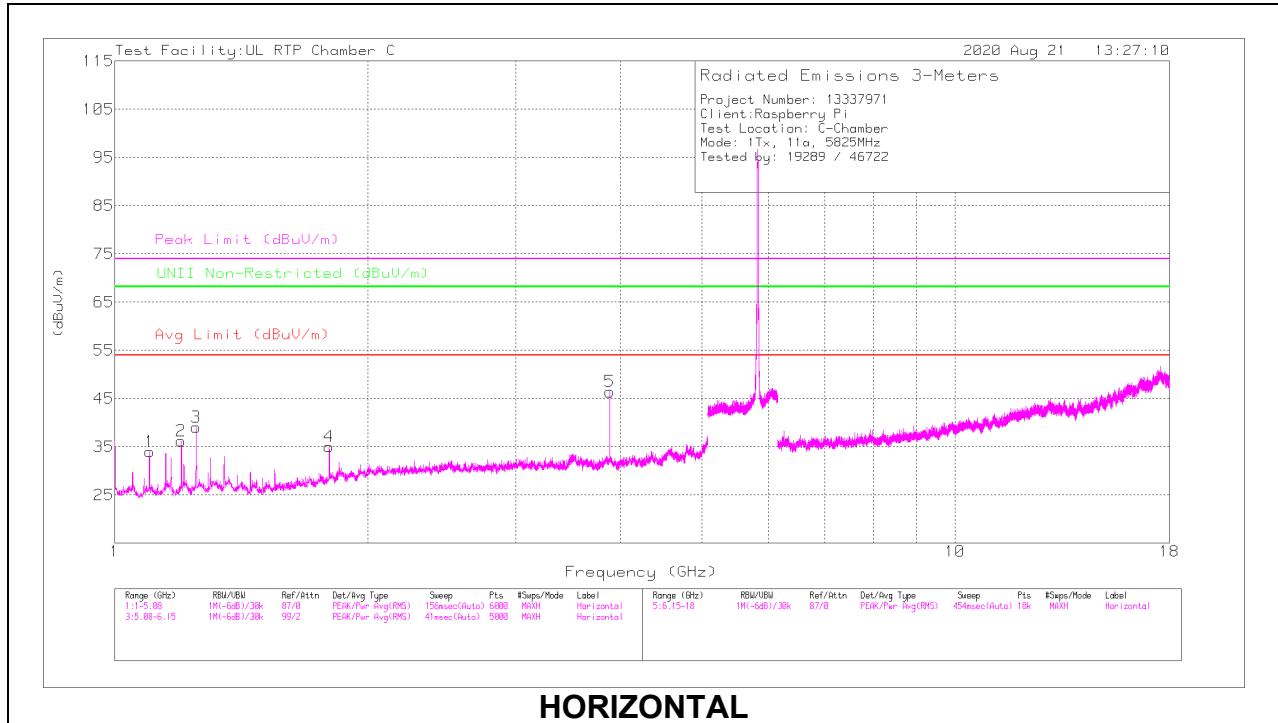
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

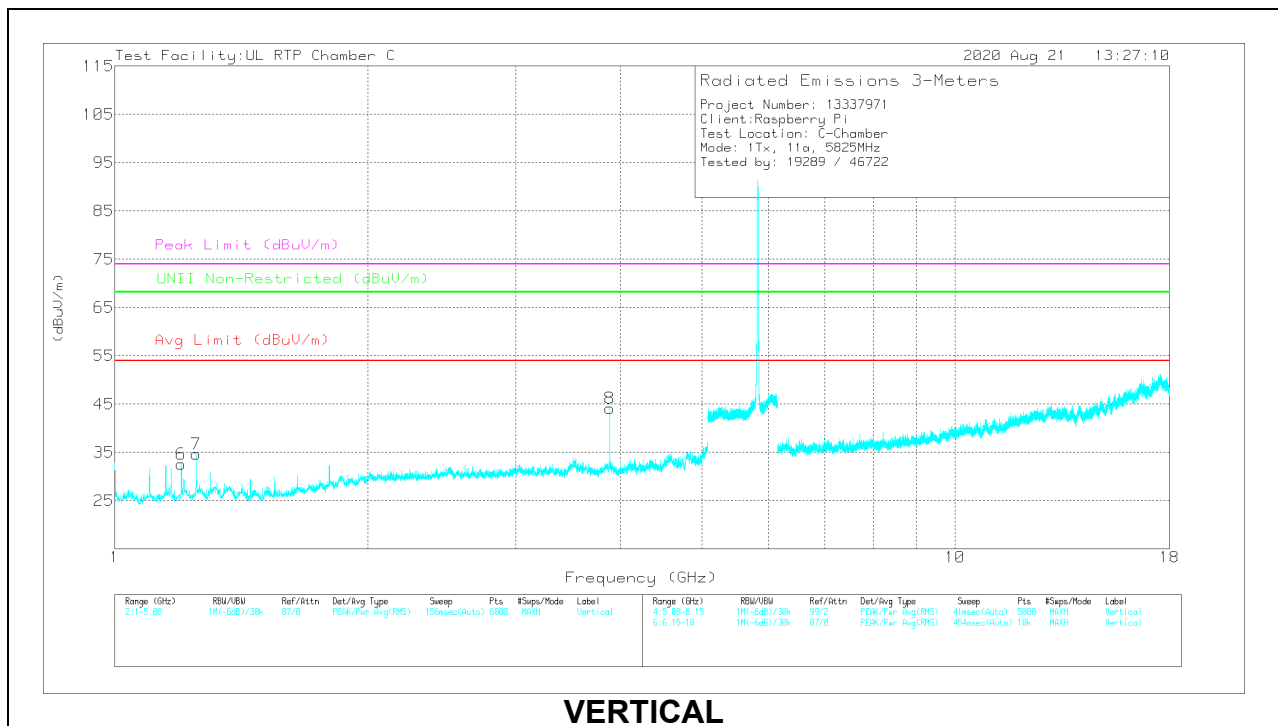
PK-U - Maximum Peak

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	* ** 1.09984	67.13	PK-U	27.3	-55.3	39.13	-	-	74	-34.87	-	-	14	119	H
	* ** 1.10002	61.04	ADV	27.3	-55.3	33.04	54	-20.96	-	-	-	-	14	119	H
2	* ** 1.2001	68.14	PK-U	28.1	-55.2	41.04	-	-	74	-32.96	-	-	181	243	H
	* ** 1.20003	62.57	ADV	28.1	-55.2	35.47	54	-18.53	-	-	-	-	181	243	H
3	* 1.25008	70.63	PK-U	28.6	-55.3	43.93	-	-	74	-30.07	-	-	206	259	H
	* 1.25002	66.12	ADV	28.6	-55.3	39.42	54	-14.58	-	-	-	-	206	259	H
5	* ** 3.88346	64.84	PK-U	33.5	-49.7	48.64	-	-	74	-25.36	-	-	298	254	H
	* ** 3.8833	60.91	ADV	33.5	-49.7	44.71	54	-9.29	-	-	-	-	298	254	H
6	* ** 1.20016	66.44	PK-U	28.1	-55.2	39.34	-	-	74	-34.66	-	-	93	397	V
	* ** 1.20002	59.26	ADV	28.1	-55.2	32.16	54	-21.84	-	-	-	-	93	397	V
7	* 1.25009	68.98	PK-U	28.6	-55.3	42.28	-	-	74	-31.72	-	-	102	378	V
	* 1.25001	63.38	ADV	28.6	-55.3	36.68	54	-17.32	-	-	-	-	102	378	V
8	* ** 3.88326	65.12	PK-U	33.5	-49.7	48.92	-	-	74	-25.08	-	-	280	395	V
	* ** 3.88331	60.95	ADV	33.5	-49.7	44.75	54	-9.25	-	-	-	-	280	395	V
4	1.79996	66.23	PK-U	30.2	-54.2	42.23	-	-	-	-	68.2	-25.97	196	302	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

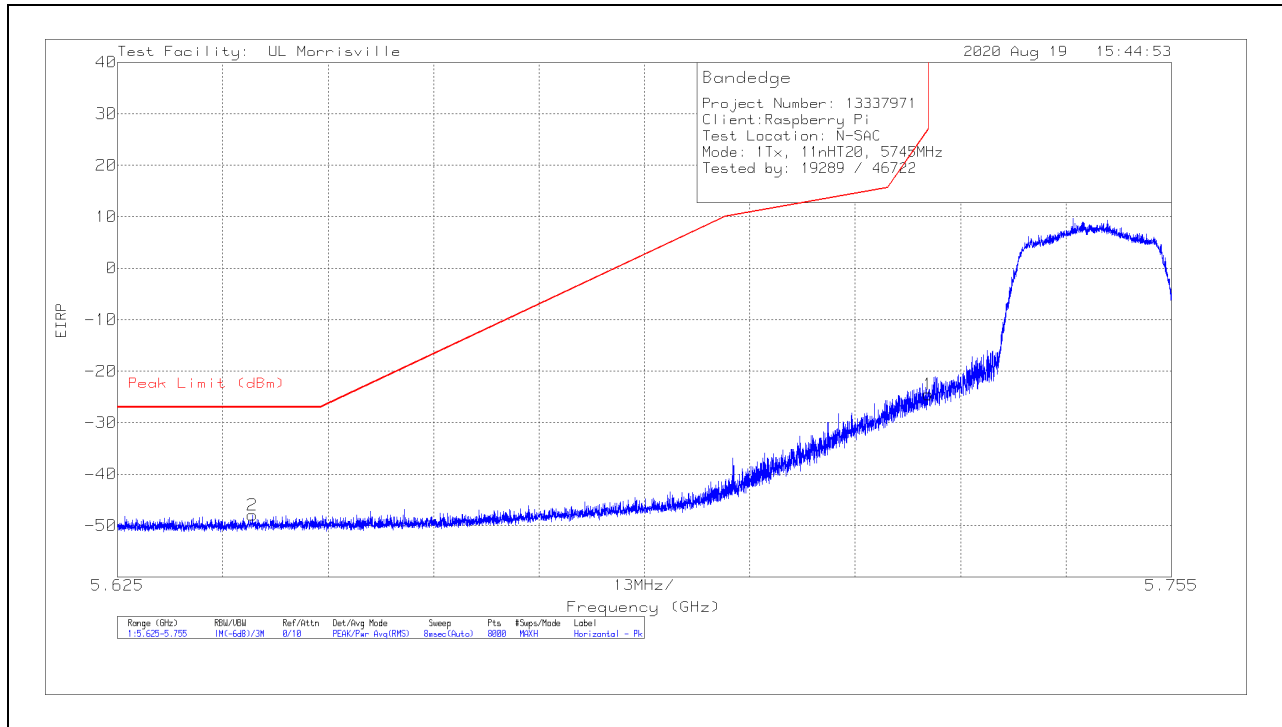
ADV - Linear Voltage Average

9.1.14. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL)

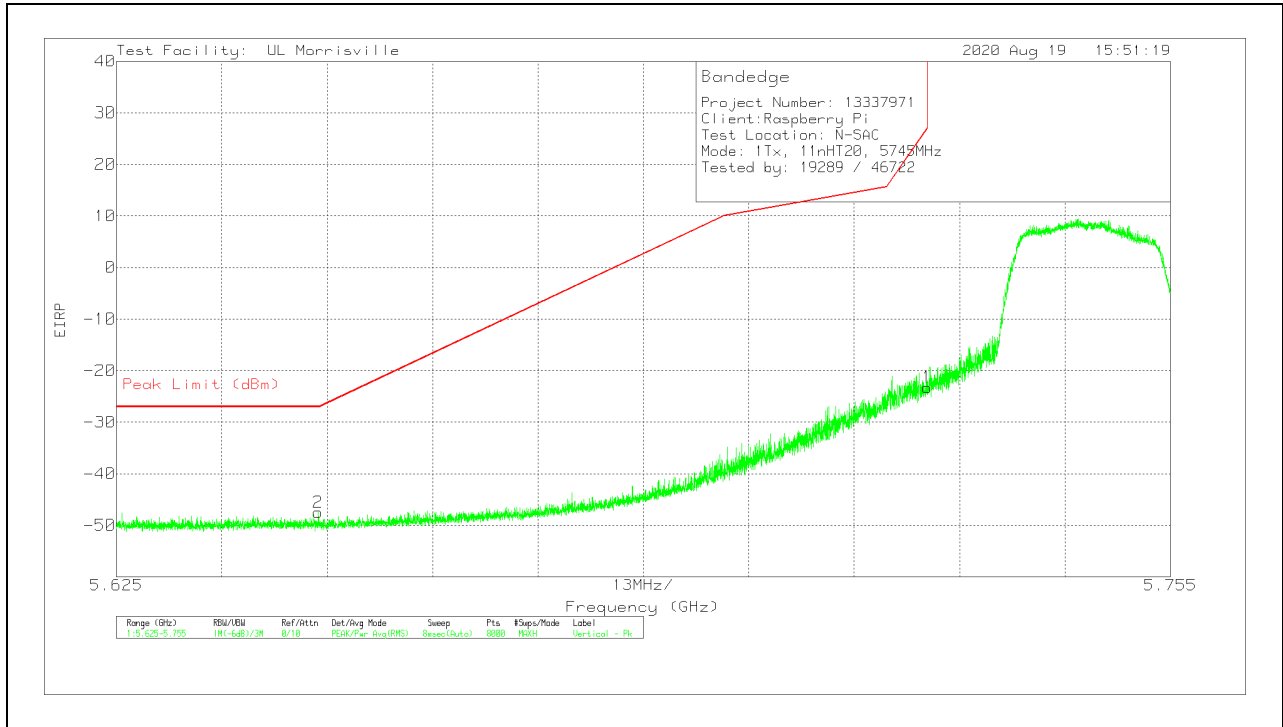
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB/(m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64164	-71.38	Pk	34.6	-23	11.8	-47.98	-27	-20.98	220	379	H
1	5.725	-48.03	Pk	34.6	-22.9	11.8	-24.53	27	-51.53	220	379	H

Pk - Peak detector

VERTICAL RESULT

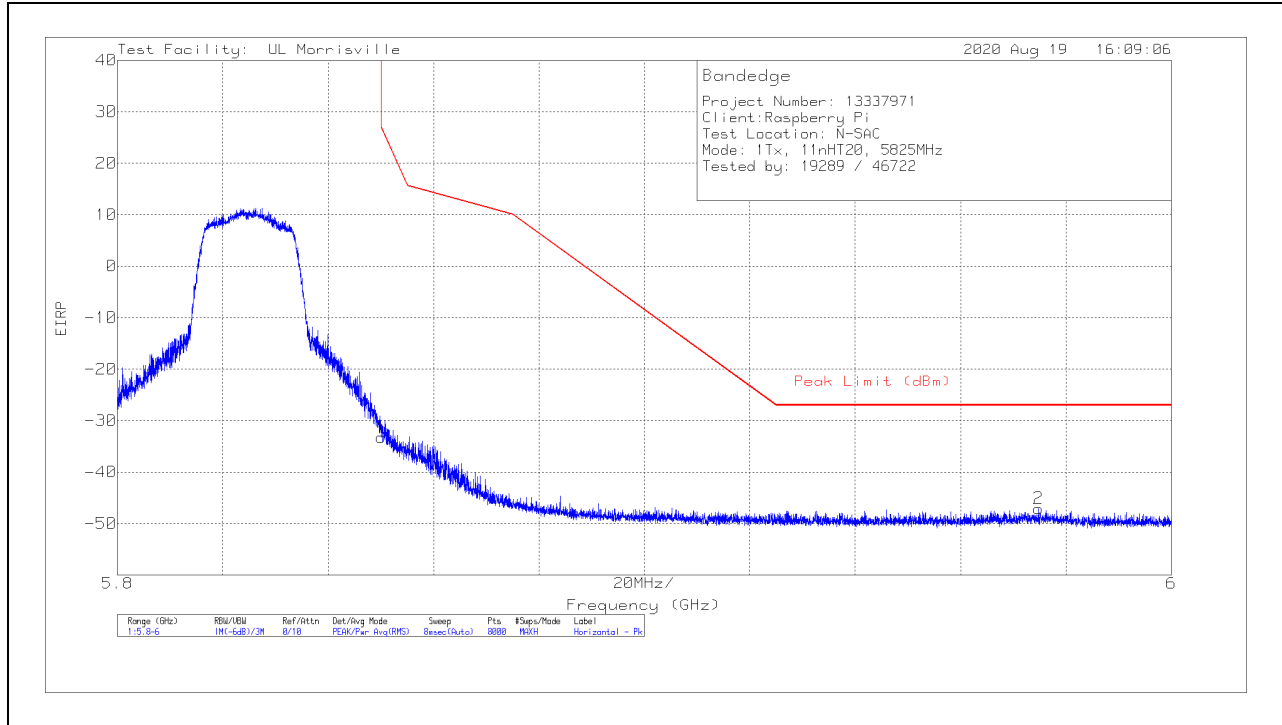


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB/(m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6499	-70.9	Pk	34.6	-23	11.8	-47.5	-27	-20.5	173	390	V
1	5.725	-46.72	Pk	34.6	-22.9	11.8	-23.22	27	-50.22	173	390	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

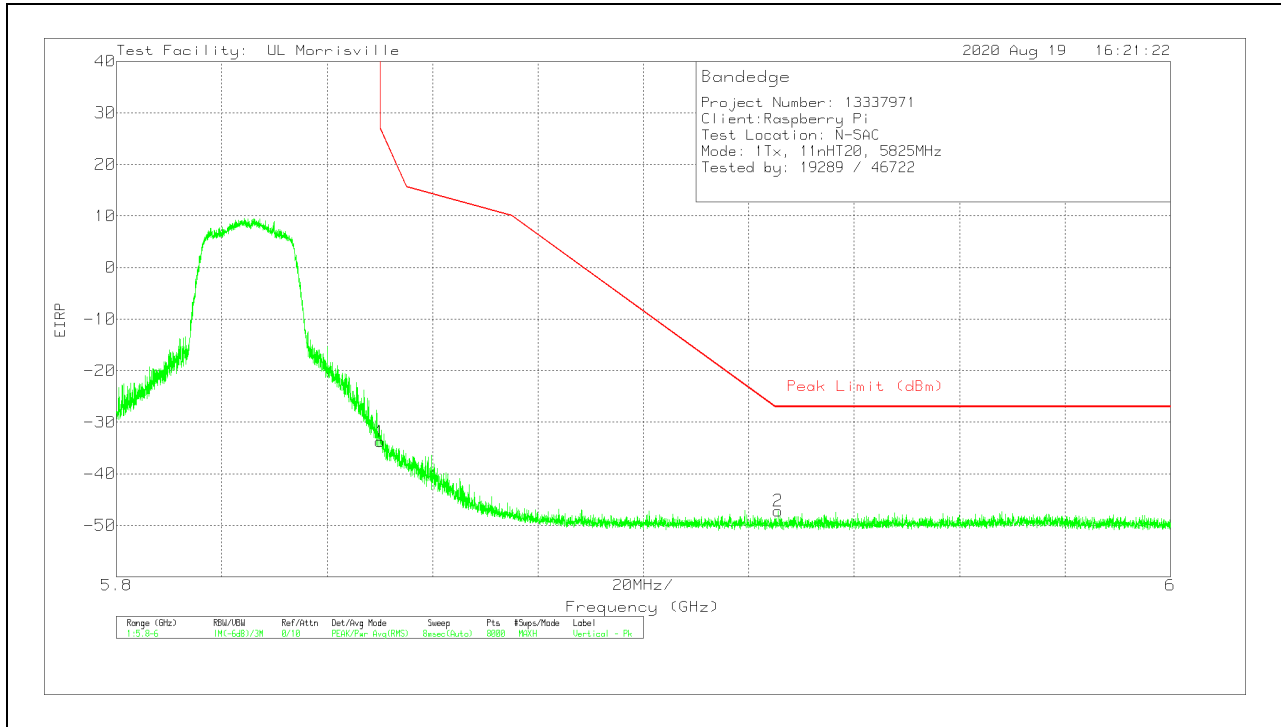
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB/(m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-57.48	Pk	34.8	-22.4	11.8	-33.28	26.99	-60.27	97	348	H
2	5.97482	-71.95	Pk	35.1	-22	11.8	-47.05	-27	-20.05	97	348	H

Pk - Peak detector

VERTICAL RESULT

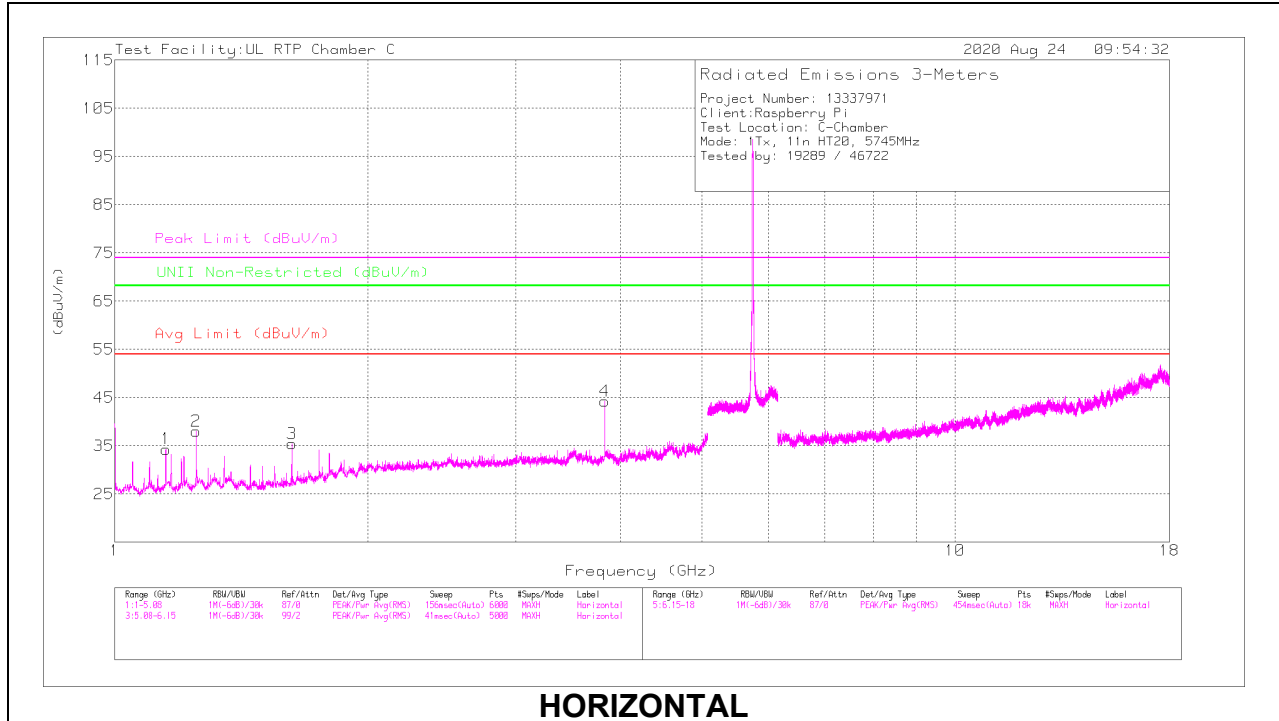


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 dB(m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-57.92	Pk	34.8	-22.4	11.8	-33.72	26.99	-60.71	171	370	V
2	5.92557	-71.89	Pk	35	-22.1	11.8	-47.19	-27	-20.19	171	370	V

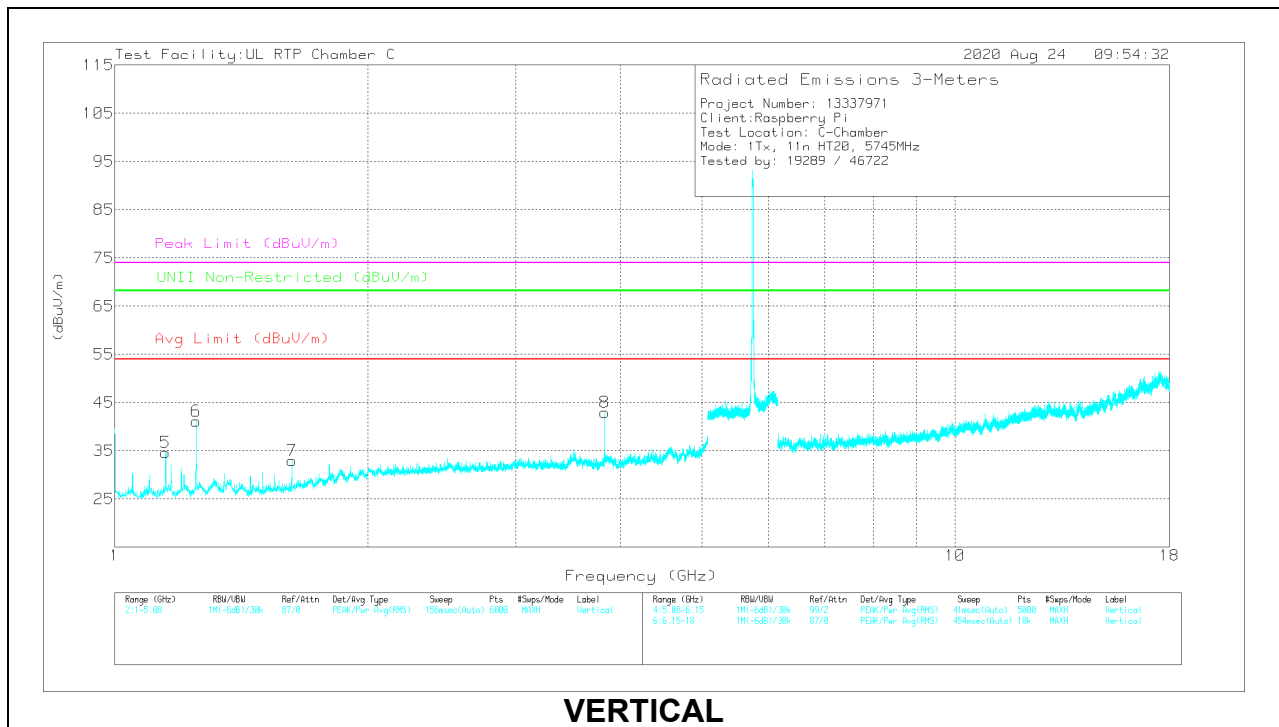
Pk - Peak detector

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	*** 1.14992	65.24	PK-U	27.4	-54.9	37.74	-	-	74	-36.26	-	-	280	102	H
	*** 1.15	56.45	ADV	27.4	-54.9	28.95	54	-25.05	-	-	-	-	280	102	H
2	* 1.24993	67.77	PK-U	28.6	-55.3	41.07	-	-	74	-32.93	-	-	188	103	H
	* 1.25005	60.77	ADV	28.6	-55.3	34.07	54	-19.93	-	-	-	-	188	103	H
3	*** 1.62507	65.8	PK-U	28.5	-54.1	40.2	-	-	74	-33.8	-	-	68	112	H
	*** 1.62502	59.07	ADV	28.5	-54.1	33.47	54	-20.53	-	-	-	-	68	112	H
4	*** 3.82995	62.97	PK-U	33.5	-49	47.47	-	-	74	-26.53	-	-	64	102	H
	*** 3.83	57.65	ADV	33.5	-49	42.15	54	-11.85	-	-	-	-	64	102	H
5	*** 1.15015	67.55	PK-U	27.4	-54.9	40.05	-	-	74	-33.95	-	-	235	102	V
	*** 1.15001	61.03	ADV	27.4	-54.9	33.53	54	-20.47	-	-	-	-	235	102	V
6	* 1.25001	70.48	PK-U	28.6	-55.3	43.78	-	-	74	-30.22	-	-	283	102	V
	* 1.25004	65.84	ADV	28.6	-55.3	39.14	54	-14.86	-	-	-	-	283	102	V
7	*** 1.62488	64.7	PK-U	28.5	-54.1	39.1	-	-	74	-34.9	-	-	231	102	V
	*** 1.62498	55.69	ADV	28.5	-54.1	30.09	54	-23.91	-	-	-	-	231	102	V
8	*** 3.83008	60.65	PK-U	33.5	-49	45.15	-	-	74	-28.85	-	-	211	102	V
	*** 3.82996	54.71	ADV	33.5	-49	39.21	54	-14.79	-	-	-	-	211	102	V

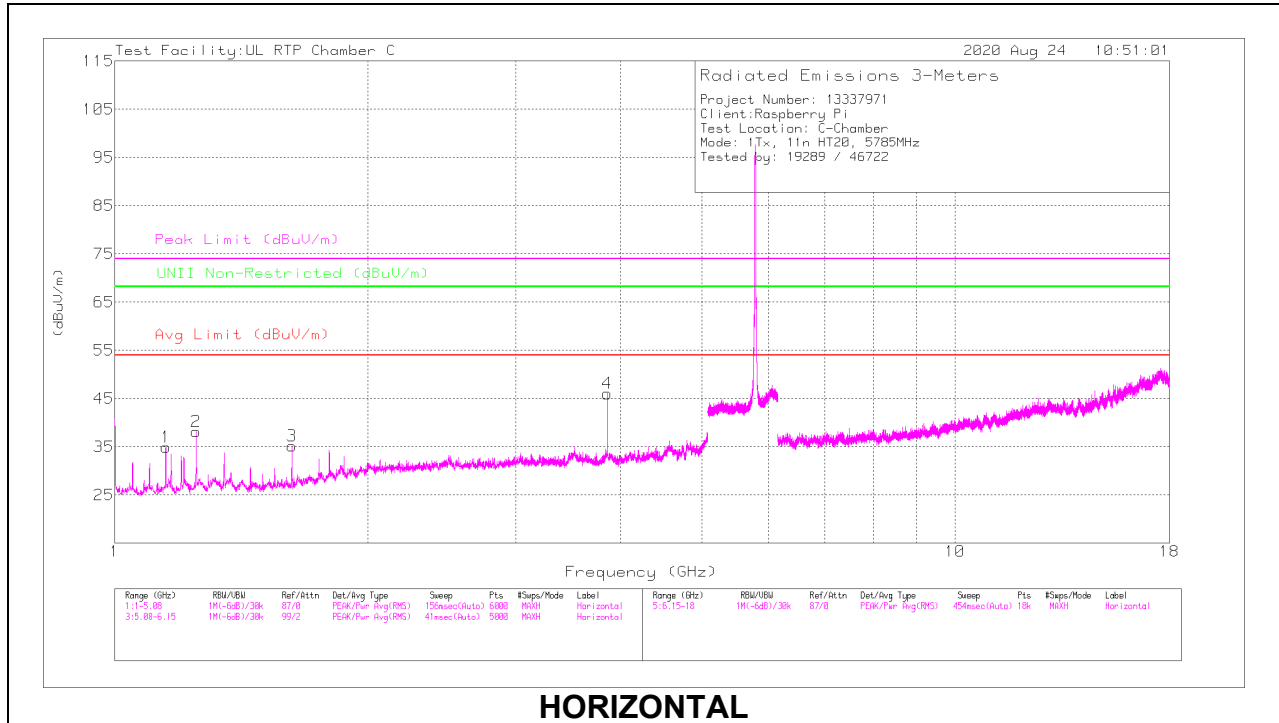
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

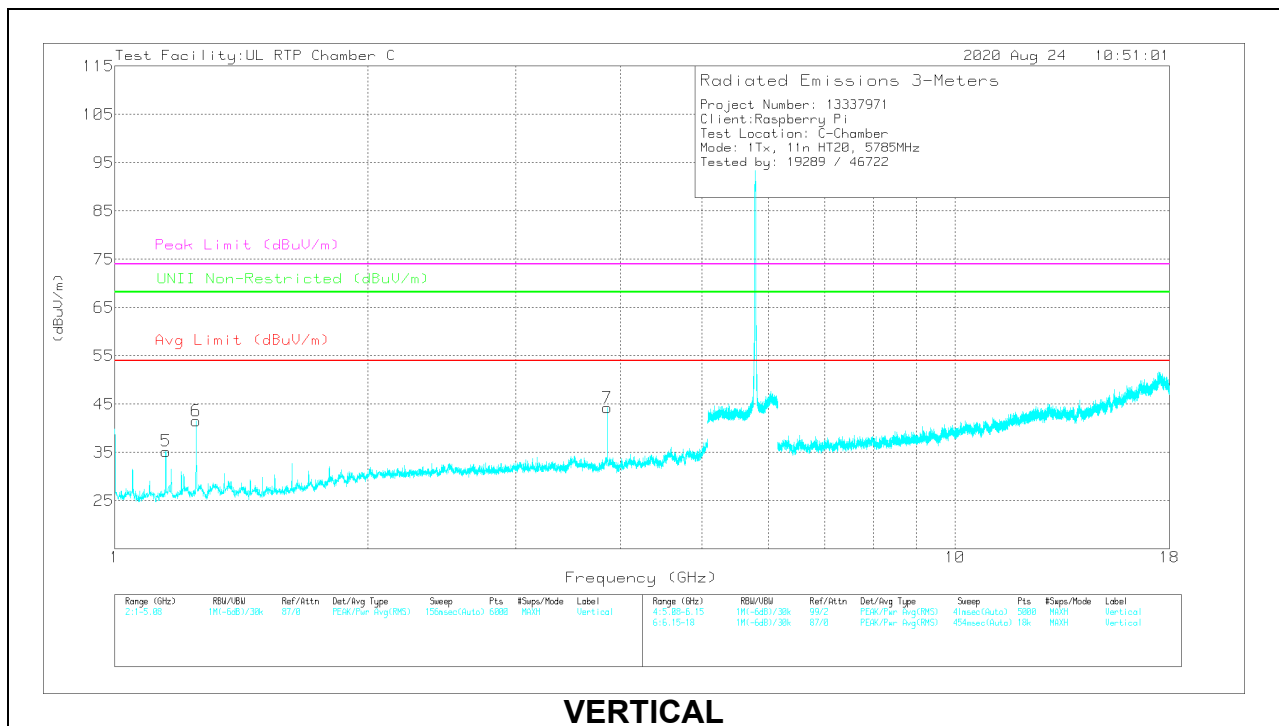
PK-U - Maximum Peak

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
1	*** 1.15016	67.6	PK-U	27.4	-54.9	40.1	-	-	74	-33.9	-	-	185	147	H
	*** 1.15004	61.23	ADV	27.4	-54.9	33.73	54	-20.27	-	-	-	-	185	147	H
2	* 1.25016	68.95	PK-U	28.6	-55.3	42.25	-	-	74	-31.75	-	-	145	152	H
	* 1.25004	63.44	ADV	28.6	-55.3	36.74	54	-17.26	-	-	-	-	145	152	H
3	*** 1.62495	66.3	PK-U	28.5	-54.1	40.7	-	-	74	-33.3	-	-	79	176	H
	*** 1.62503	59.6	ADV	28.5	-54.1	34	54	-20	-	-	-	-	79	176	H
4	*** 3.85671	64.22	PK-U	33.5	-49.3	48.42	-	-	74	-25.58	-	-	249	103	H
	*** 3.85665	60.52	ADV	33.5	-49.2	44.82	54	-9.18	-	-	-	-	249	103	H
5	*** 1.14993	66.69	PK-U	27.4	-54.9	39.19	-	-	74	-34.81	-	-	232	102	V
	*** 1.15007	60.58	ADV	27.4	-54.9	33.08	54	-20.92	-	-	-	-	232	102	V
6	* 1.25009	70.08	PK-U	28.6	-55.3	43.38	-	-	74	-30.62	-	-	239	103	V
	* 1.25005	65.51	ADV	28.6	-55.3	38.81	54	-15.19	-	-	-	-	239	103	V
7	*** 3.8567	62.08	PK-U	33.5	-49.3	46.28	-	-	74	-27.72	-	-	213	102	V
	*** 3.85665	56.89	ADV	33.5	-49.2	41.19	54	-12.81	-	-	-	-	213	102	V

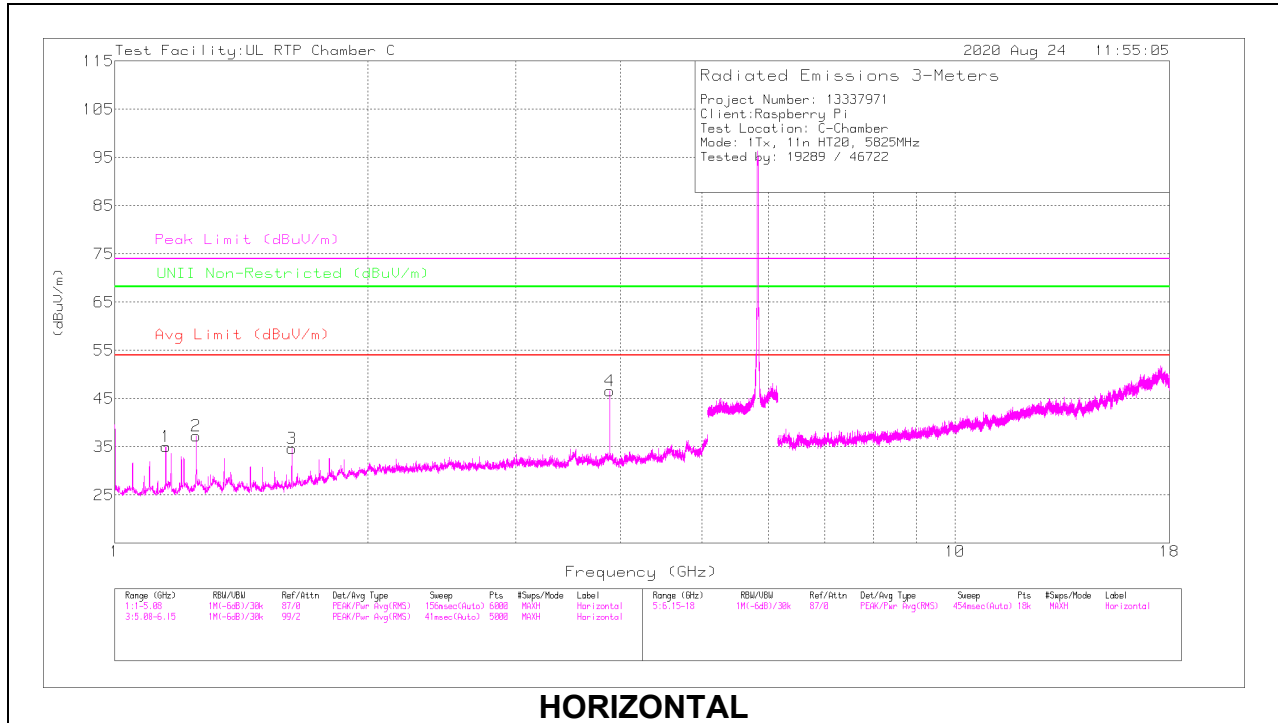
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

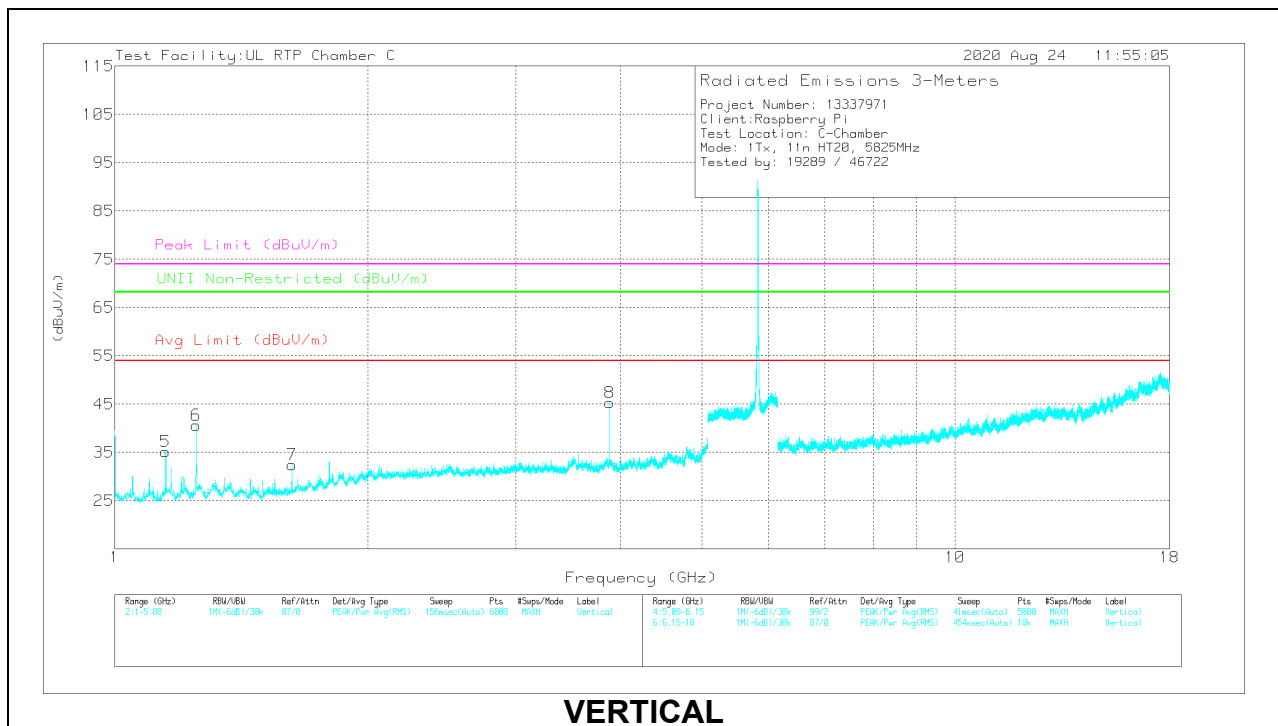
PK-U - Maximum Peak

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	*** 1.15003	66.66	PK-U	27.4	-54.9	39.16	-	-	74	-34.84	-	-	177	102	H
	*** 1.15002	59.94	ADV	27.4	-54.9	32.44	54	-21.56	-	-	-	-	177	102	H
2	* 1.25013	68.68	PK-U	28.6	-55.3	41.98	-	-	74	-32.02	-	-	180	102	H
	* 1.25004	62.77	ADV	28.6	-55.3	36.07	54	-17.93	-	-	-	-	180	102	H
3	*** 1.62467	65.97	PK-U	28.5	-54.1	40.37	-	-	74	-33.63	-	-	77	135	H
	*** 1.62502	59.78	ADV	28.5	-54.1	34.18	54	-19.82	-	-	-	-	77	135	H
4	*** 3.88324	65.33	PK-U	33.5	-49.7	49.13	-	-	74	-24.87	-	-	240	103	H
	*** 3.88332	61.82	ADV	33.5	-49.7	45.62	54	-8.38	-	-	-	-	240	103	H
5	*** 1.14993	67.07	PK-U	27.4	-54.9	39.57	-	-	74	-34.43	-	-	235	102	V
	*** 1.15003	61.04	ADV	27.4	-54.9	33.54	54	-20.46	-	-	-	-	235	102	V
6	* 1.25005	70.08	PK-U	28.6	-55.3	43.38	-	-	74	-30.62	-	-	242	102	V
	* 1.25003	65.54	ADV	28.6	-55.3	38.84	54	-15.16	-	-	-	-	242	102	V
7	*** 1.62516	63.82	PK-U	28.5	-54.1	38.22	-	-	74	-35.78	-	-	234	102	V
	*** 1.62505	55.31	ADV	28.5	-54.1	29.71	54	-24.29	-	-	-	-	234	102	V
8	*** 3.88323	64.37	PK-U	33.5	-49.7	48.17	-	-	74	-25.83	-	-	216	102	V
	*** 3.88331	60.56	ADV	33.5	-49.7	44.36	54	-9.64	-	-	-	-	216	102	V

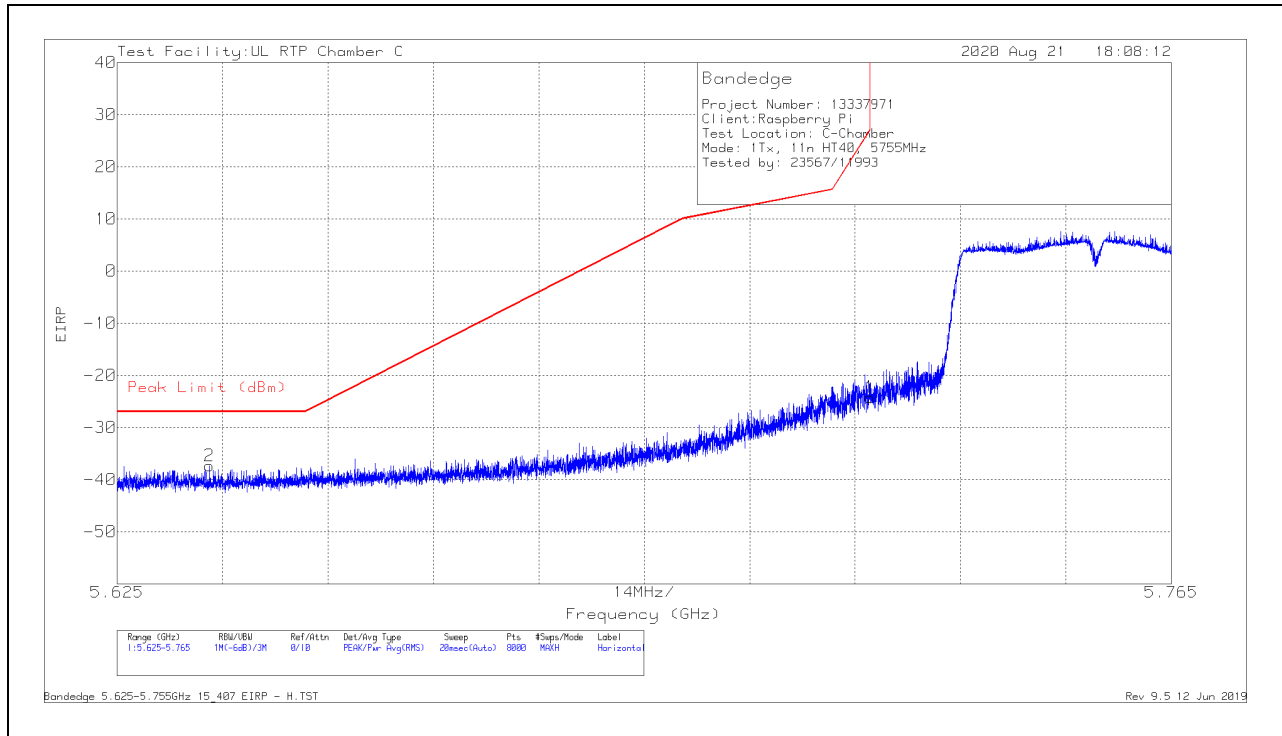
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - Maximum Peak
 ADV - Linear Voltage Average

9.1.15. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (LOW CHANNEL)

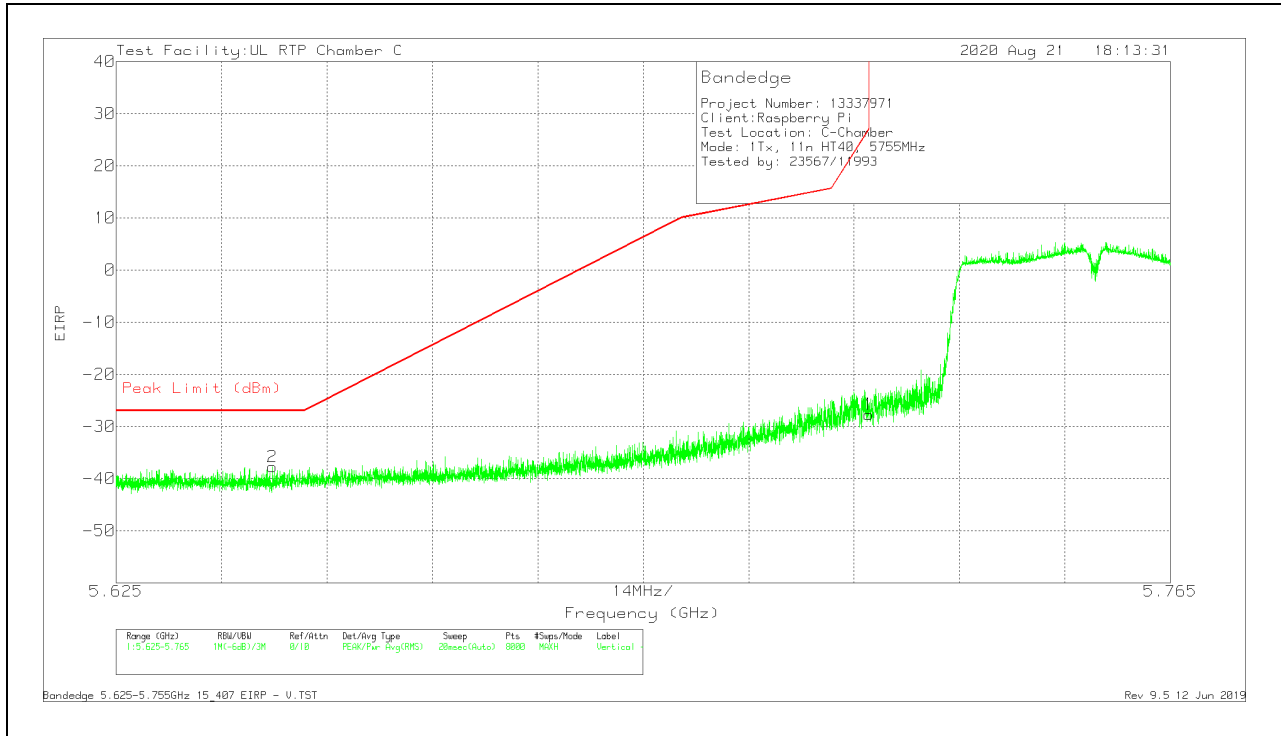
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63727	-68.85	Pk	34.6	-14.9	11.8	-37.35	-27	-10.35	171	395	H
1	5.72499	-55.8	Pk	34.6	-14.8	11.8	-24.2	26.97	-51.17	171	395	H

Pk - Peak detector

VERTICAL RESULT

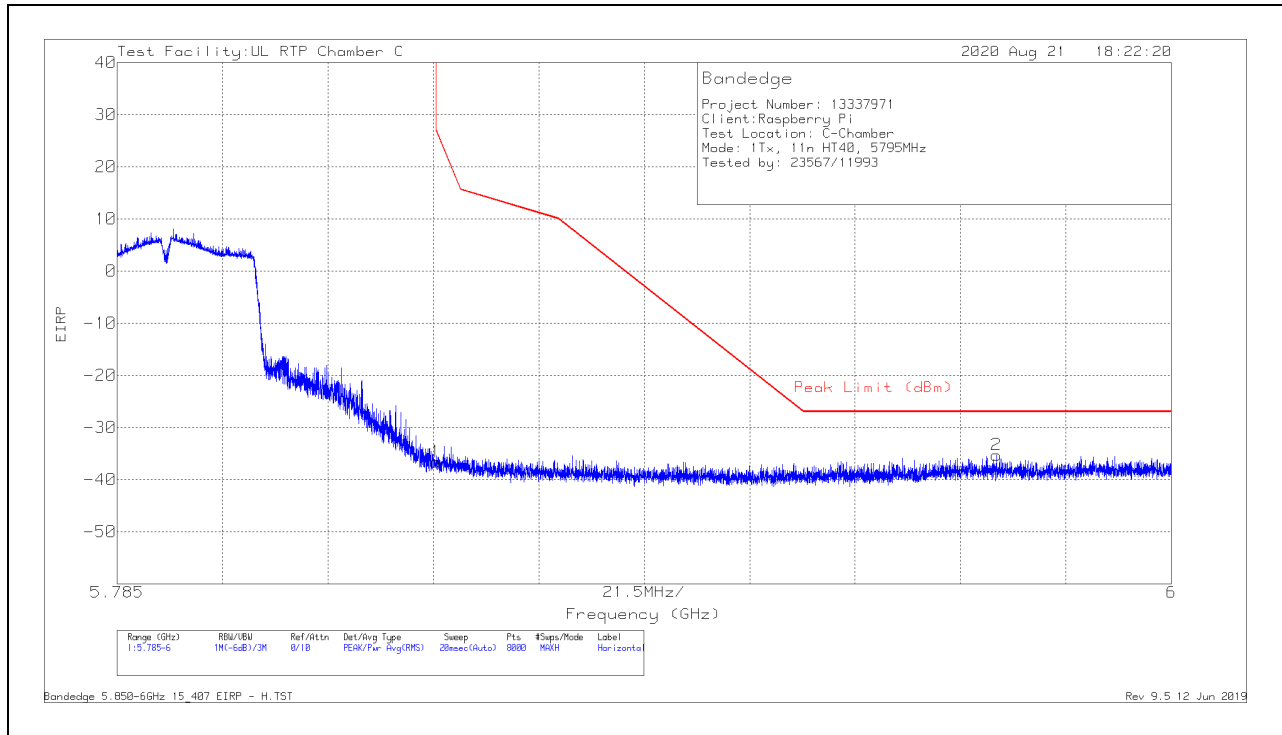


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64574	-69.15	Pk	34.6	-15	11.8	-37.75	-27	-10.75	239	396	V
1	5.72499	-59.31	Pk	34.6	-14.8	11.8	-27.71	26.97	-54.68	239	396	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

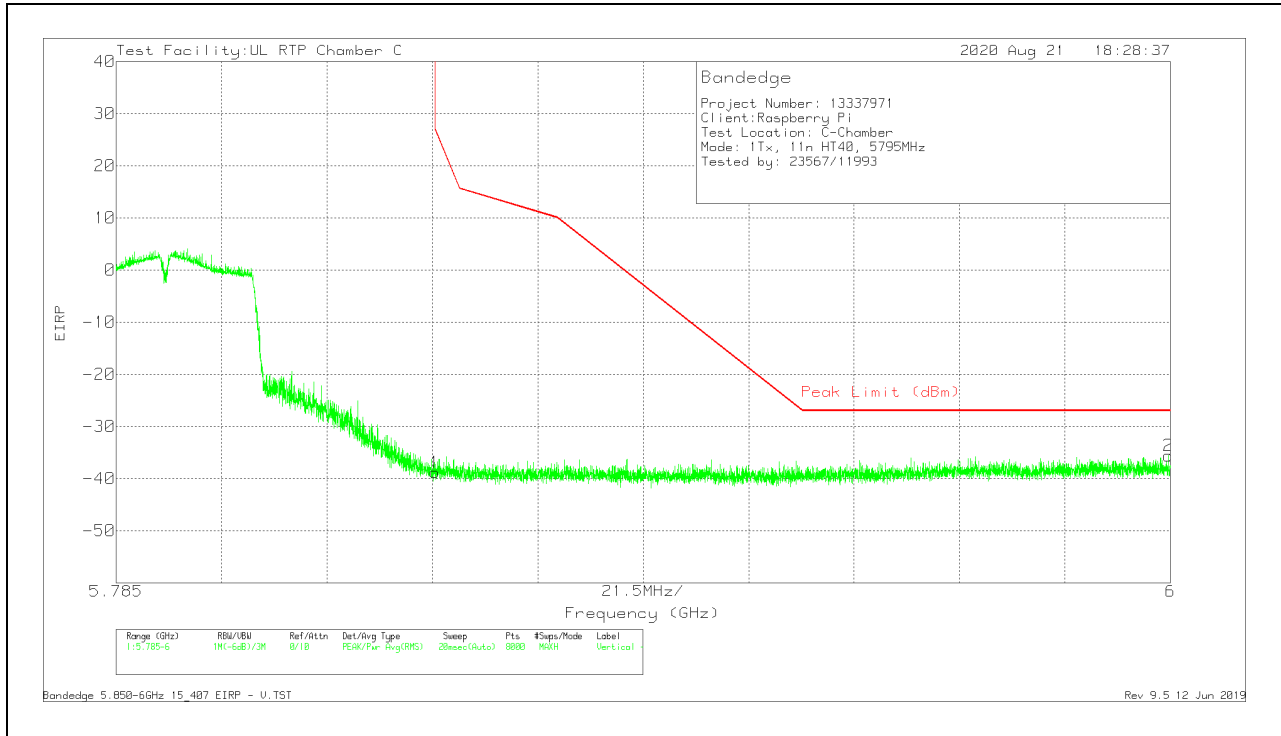
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-69.02	Pk	34.9	-14.3	11.8	-36.62	26.96	-63.58	138	376	H
2	5.96433	-68.26	Pk	35.1	-13.9	11.8	-35.26	-27	-8.26	138	376	H

Pk - Peak detector

VERTICAL RESULT

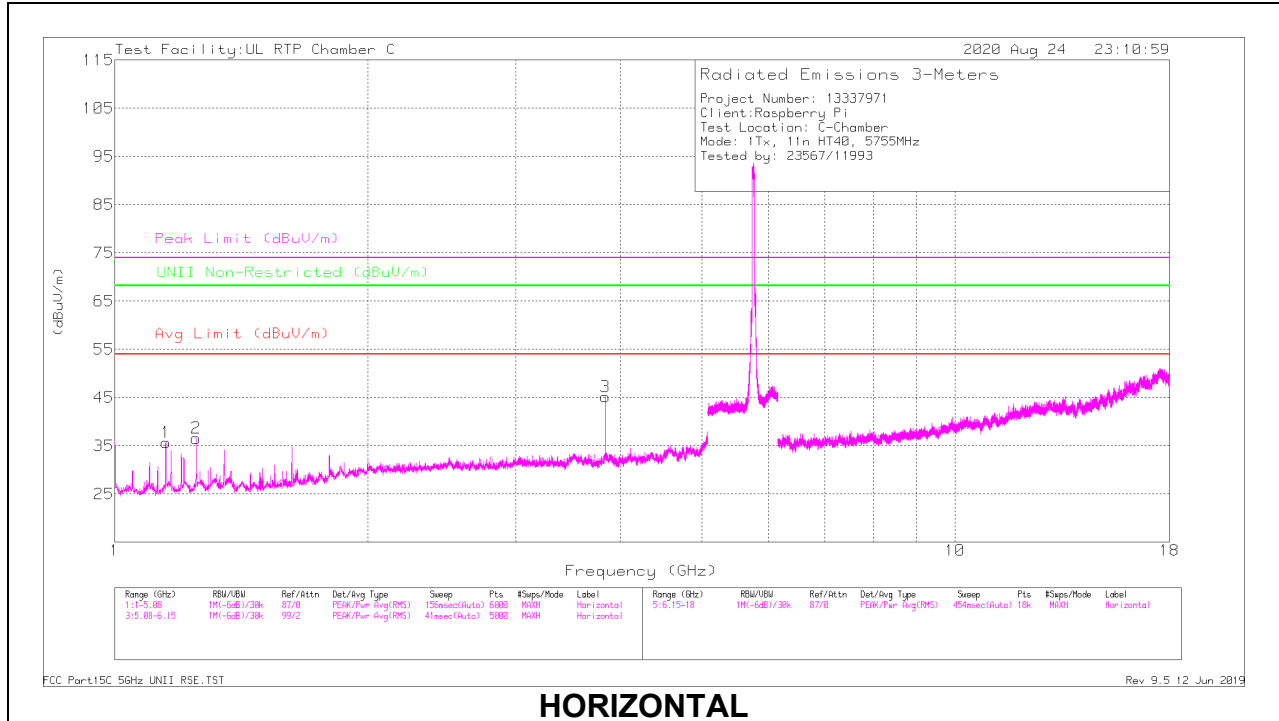


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-71.24	Pk	34.9	-14.3	11.8	-38.84	26.96	-65.8	236	397	V
2	5.99957	-68.21	Pk	35.2	-14.4	11.8	-35.61	-27	-8.61	236	397	V

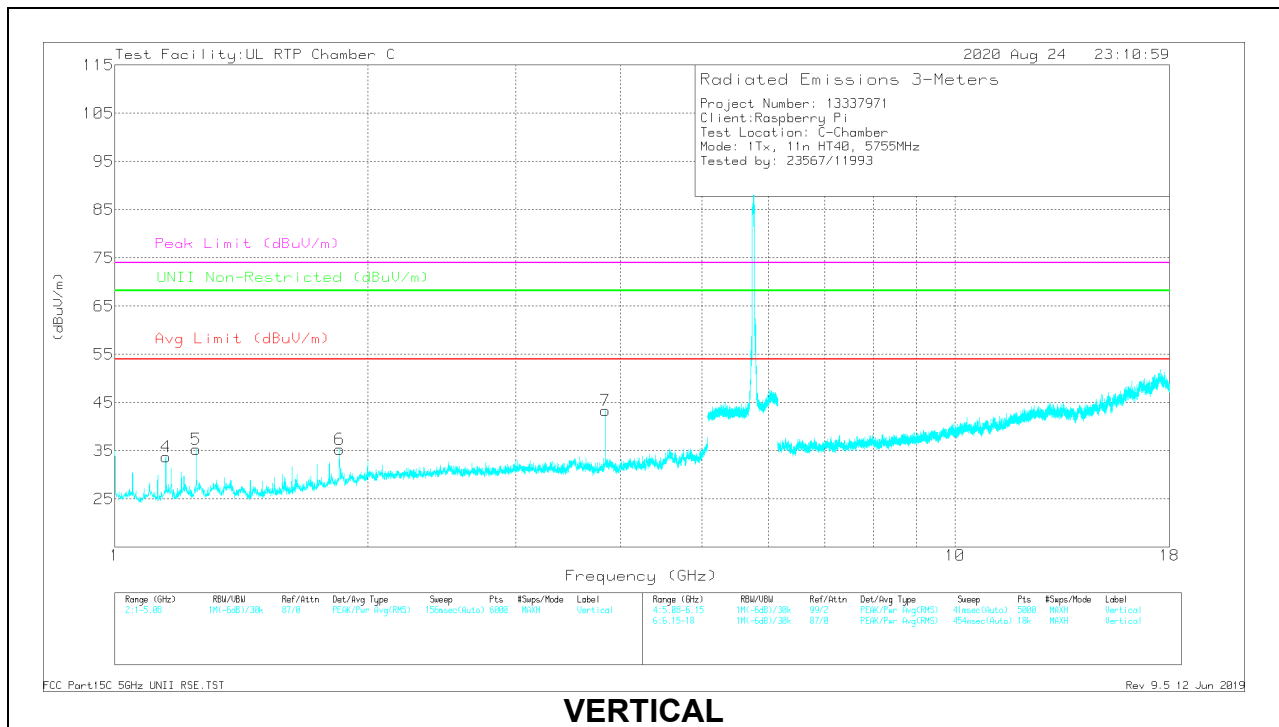
Pk - Peak detector

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	*** 1.14999	66.45	PK-U	27.4	-54.9	0	38.95	-	-	74	-35.05	-	-	316	102	H
	*** 1.15001	61.13	ADV	27.4	-54.9	.23	33.86	54	-20.14	-	-	-	-	316	102	H
2	* 1.25012	67.36	PK-U	28.6	-55.3	0	40.66	-	-	74	-33.34	-	-	349	128	H
	* 1.25002	62.05	ADV	28.6	-55.3	.23	35.58	54	-18.42	-	-	-	-	349	128	H
3	*** 3.83671	62.31	PK-U	33.5	-49.2	0	46.61	-	-	74	-27.39	-	-	247	102	H
	*** 3.83666	57.47	ADV	33.5	-49.2	.23	42	54	-12	-	-	-	-	247	102	H
4	*** 1.15005	65.44	PK-U	27.4	-54.9	0	37.94	-	-	74	-36.06	-	-	237	102	V
	*** 1.14999	58.74	ADV	27.4	-54.9	.23	31.47	54	-22.53	-	-	-	-	237	102	V
5	* 1.25007	66.04	PK-U	28.6	-55.3	0	39.34	-	-	74	-34.66	-	-	317	103	V
	* 1.25003	59.2	ADV	28.6	-55.3	.23	32.73	54	-21.27	-	-	-	-	317	103	V
6	** 1.85402	59.97	PK-U	30.9	-53.7	0	37.17	-	-	-	-	68.2	-31.03	97	102	V
	** 1.85501	46.94	ADV	30.9	-53.7	.23	24.37	-	-	-	-	-	-	97	102	V
7	*** 3.83649	60.52	PK-U	33.5	-49.2	0	44.82	-	-	74	-29.18	-	-	347	102	V
	*** 3.83663	54.69	ADV	33.5	-49.2	.23	39.22	54	-14.78	-	-	-	-	347	102	V

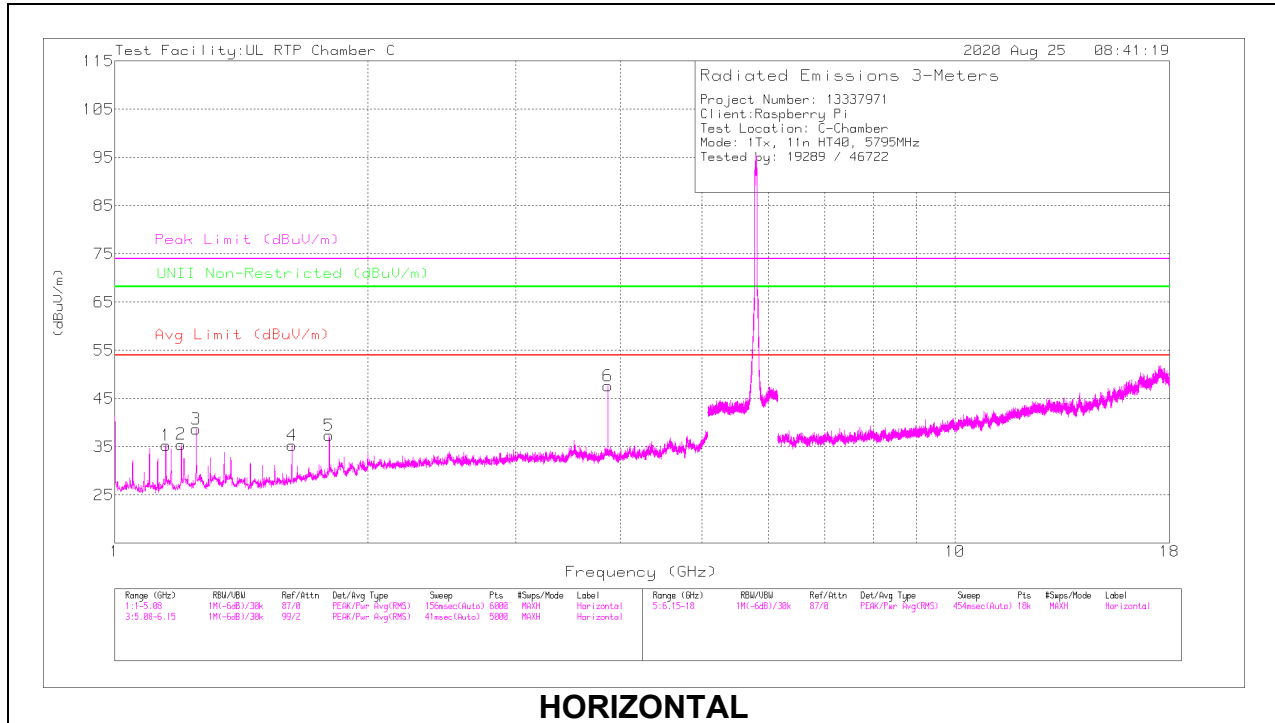
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

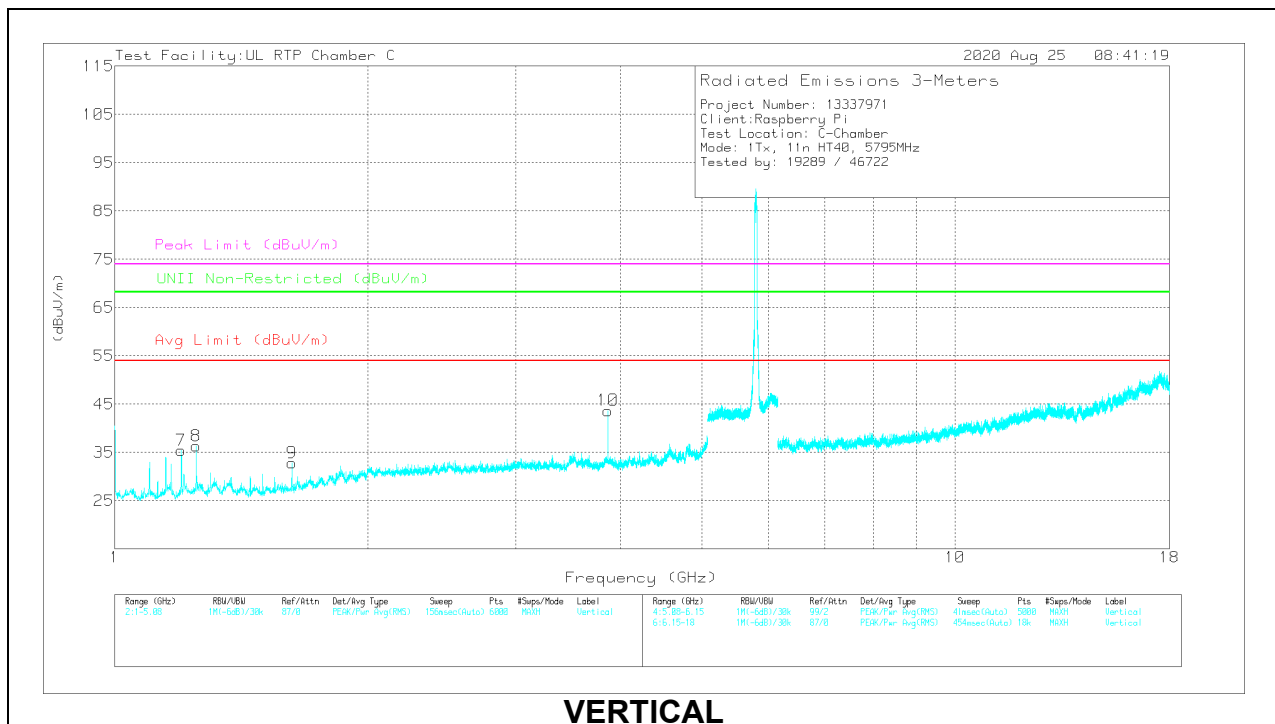
PK-U - Maximum Peak

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)	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	* ** 1.15014	66.88	PK-U	27.4	-54.9	0	39.38	-	-	74	-34.62	-	-	4	102	H
	* ** 1.15	59.69	ADV	27.4	-54.9	.23	32.42	54	-21.58	-	-	-	-	4	102	H
2	* ** 1.20001	67.26	PK-U	28.1	-55.2	0	40.16	-	-	74	-33.84	-	-	360	104	H
	* ** 1.20005	60.21	ADV	28.1	-55.2	.23	33.34	54	-20.66	-	-	-	-	360	104	H
3	* 1.24992	68.25	PK-U	28.6	-55.3	0	41.55	-	-	74	-32.45	-	-	356	102	H
	* 1.25003	62.44	ADV	28.6	-55.3	.23	35.97	54	-18.03	-	-	-	-	356	102	H
4	* ** 1.62508	65.86	PK-U	28.5	-54.1	0	40.26	-	-	74	-33.74	-	-	90	107	H
	* ** 1.62507	58.85	ADV	28.5	-54.1	.23	33.48	54	-20.52	-	-	-	-	90	107	H
6	* ** 3.86324	65	PK-U	33.5	-49.6	0	48.9	-	-	74	-25.1	-	-	62	103	H
	* ** 3.86334	60.75	ADV	33.5	-49.6	.23	44.88	54	-9.12	-	-	-	-	62	103	H
7	* ** 1.19991	66.52	PK-U	28.1	-55.2	0	39.42	-	-	74	-34.58	-	-	238	102	V
	* ** 1.20004	60.17	ADV	28.1	-55.2	.23	33.3	54	-20.7	-	-	-	-	238	102	V
8	* 1.24995	67.14	PK-U	28.6	-55.3	0	40.44	-	-	74	-33.56	-	-	227	103	V
	* 1.25005	60.81	ADV	28.6	-55.3	.23	34.34	54	-19.66	-	-	-	-	227	103	V
9	* ** 1.62461	64.05	PK-U	28.5	-54.1	0	38.45	-	-	74	-35.55	-	-	237	102	V
	* ** 1.62512	55.72	ADV	28.5	-54.1	.23	30.35	54	-23.65	-	-	-	-	237	102	V
10	* ** 3.86324	62.19	PK-U	33.5	-49.6	0	46.09	-	-	74	-27.91	-	-	214	102	V
	* ** 3.8633	56.86	ADV	33.5	-49.6	.23	40.99	54	-13.01	-	-	-	-	214	102	V
5	1.80009	65.5	PK-U	30.2	-54.2	0	41.5	-	-	-	-	68.2	-26.7	69	234	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

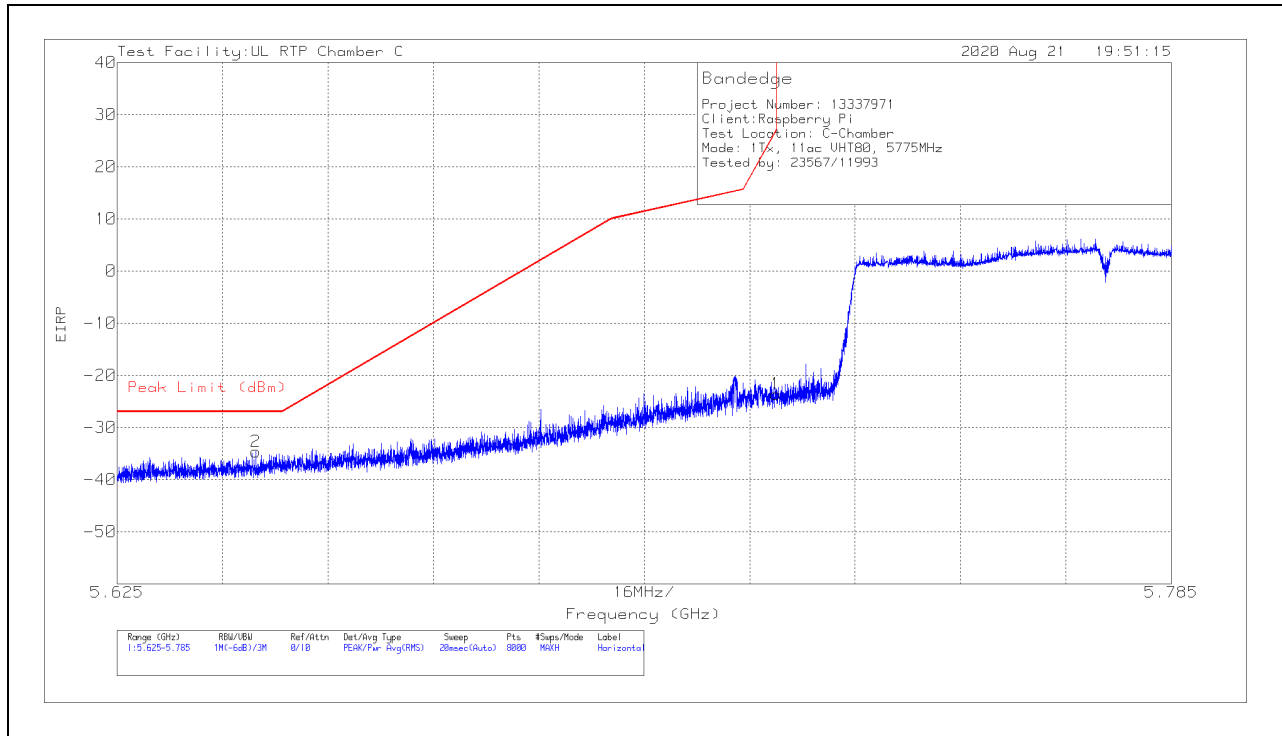
ADV - Linear Voltage Average

9.1.16. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

BANDEDGE (CHANNEL 155 LOW EDGE)

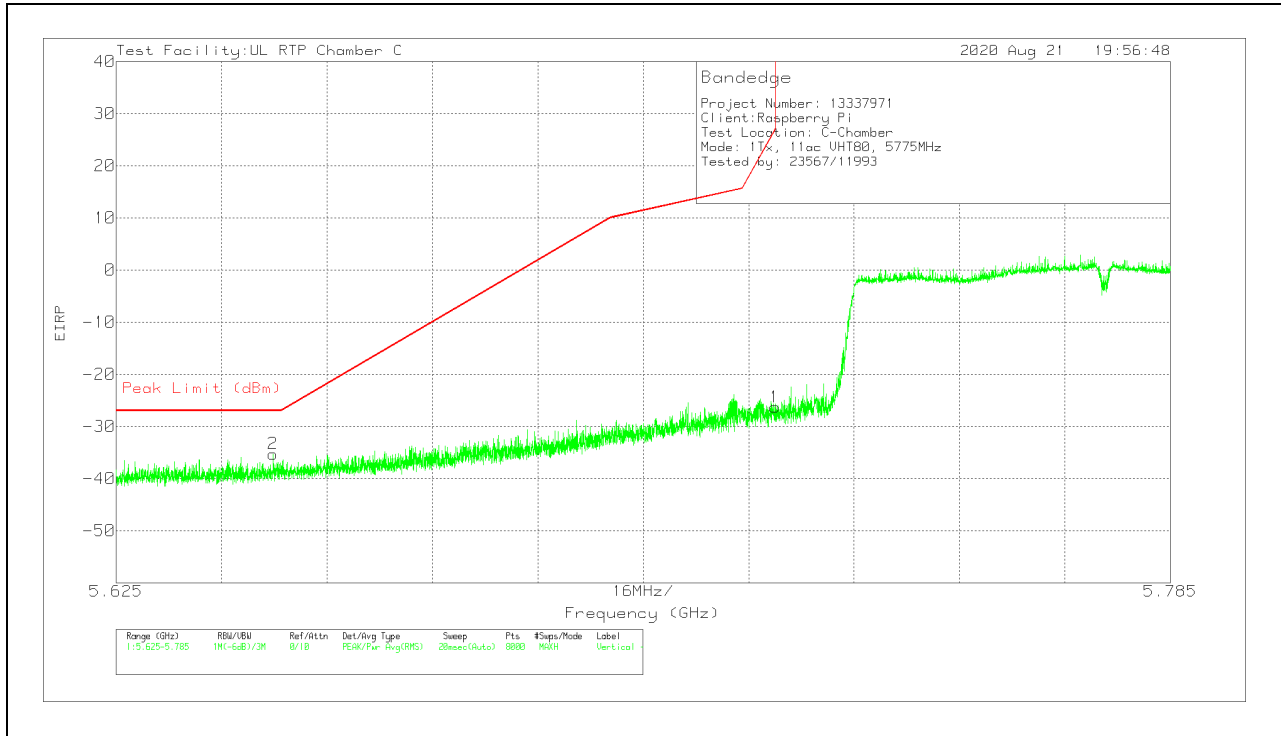
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64606	-66.03	Pk	34.6	-15	11.8	-34.63	-27	-7.63	154	399	H
1	5.725	-55.19	Pk	34.6	-14.8	11.8	-23.59	26.99	-50.58	154	399	H

Pk - Peak detector

VERTICAL RESULT

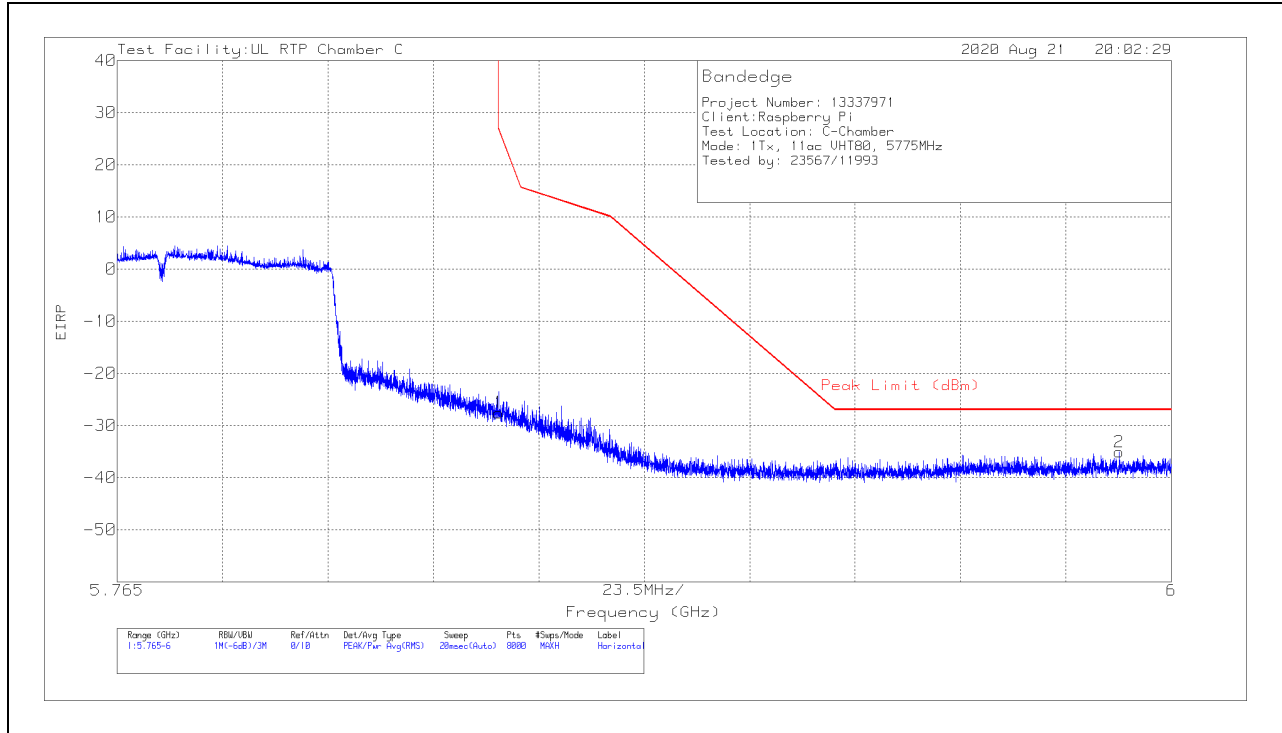


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64878	-66.86	Pk	34.6	-14.8	11.8	-35.26	-27	-8.26	234	396	V
1	5.725	-57.89	Pk	34.6	-14.8	11.8	-26.29	26.99	-53.28	234	396	V

Pk - Peak detector

BANDEDGE (CHANNEL 155 HIGH EDGE)

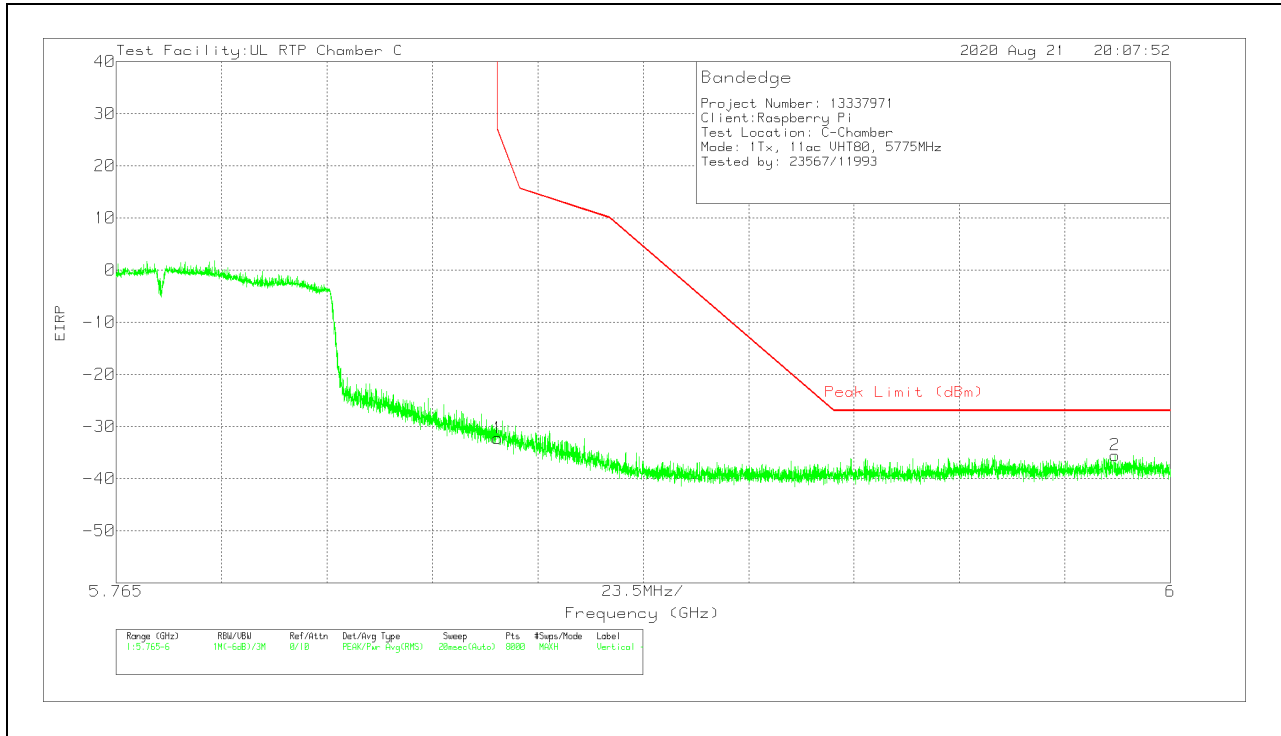
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-59.95	Pk	34.9	-14.3	11.8	-27.55	26.95	-54.5	129	398	H
2	5.98834	-67.8	Pk	35.1	-14.2	11.8	-35.1	-27	-8.1	129	398	H

Pk - Peak detector

VERTICAL RESULT

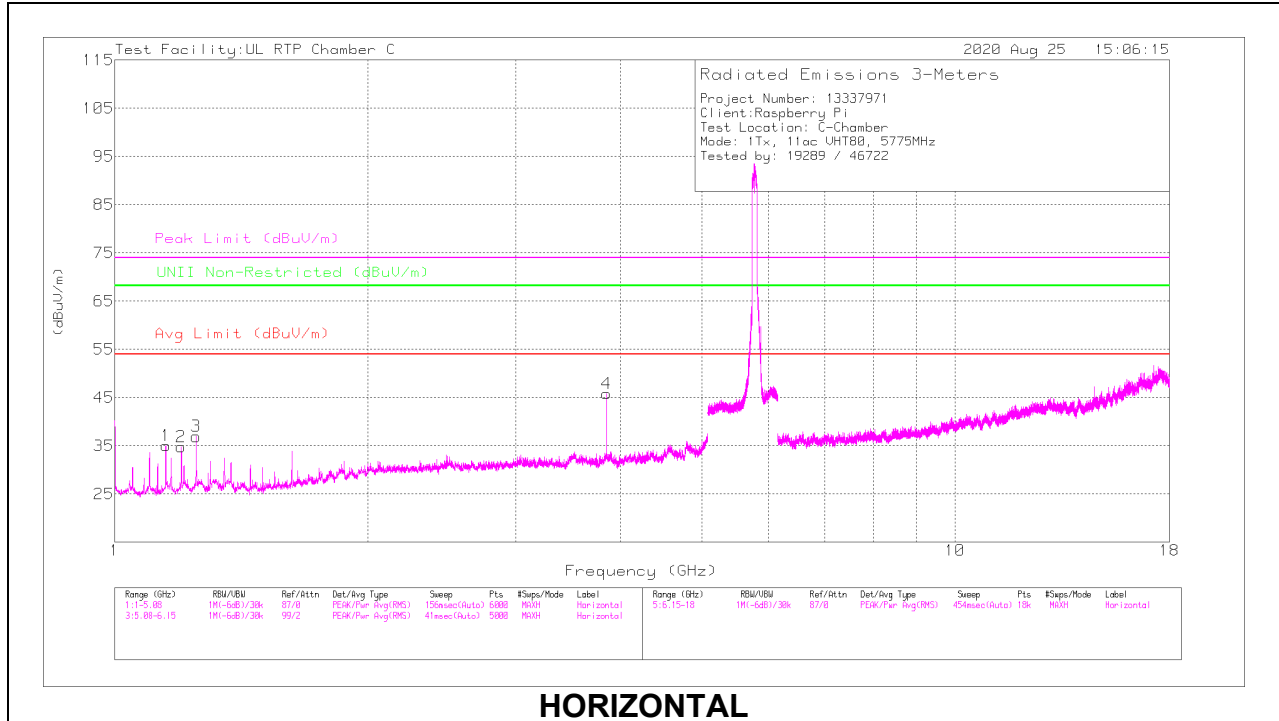


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0062 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-64.64	Pk	34.9	-14.3	11.8	-32.24	26.95	-59.19	248	396	V
2	5.98769	-68.3	Pk	35.1	-14.1	11.8	-35.5	-27	-8.5	248	396	V

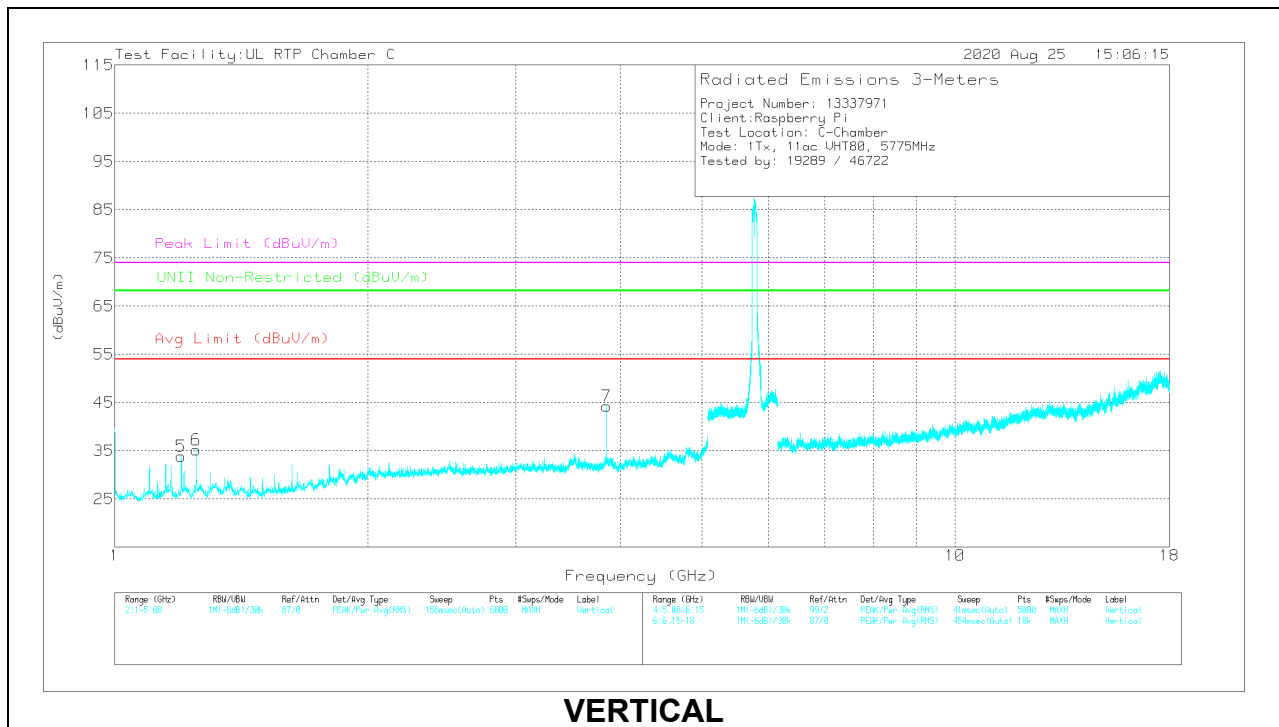
Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

MID 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	* ** 1.14989	66.65	PK-U	27.4	-54.9	0	39.15	-	-	74	-34.85	-	-	1	152	H
	* ** 1.15005	60.6	ADV	27.4	-54.9	.42	33.52	54	-20.48	-	-	-	-	1	152	H
2	* ** 1.20019	66.56	PK-U	28.1	-55.2	0	39.46	-	-	74	-34.54	-	-	167	179	H
	* ** 1.19999	60.03	ADV	28.1	-55.2	.42	33.35	54	-20.65	-	-	-	-	167	179	H
3	* 1.2499	68.1	PK-U	28.6	-55.3	0	41.4	-	-	74	-32.6	-	-	2	170	H
	* 1.25004	62.57	ADV	28.6	-55.3	.42	36.29	54	-17.71	-	-	-	-	2	170	H
4	* ** 3.85004	64.61	PK-U	33.5	-49.4	0	48.71	-	-	74	-25.29	-	-	259	102	H
	* ** 3.84998	60.05	ADV	33.5	-49.4	.42	44.57	54	-9.43	-	-	-	-	259	102	H
5	* ** 1.19959	65.57	PK-U	28.1	-55.2	0	38.47	-	-	74	-35.53	-	-	234	102	V
	* ** 1.20004	58.81	ADV	28.1	-55.2	.42	32.13	54	-21.87	-	-	-	-	234	102	V
6	* 1.25008	66.46	PK-U	28.6	-55.3	0	39.76	-	-	74	-34.24	-	-	242	115	V
	* 1.25008	59.88	ADV	28.6	-55.3	.42	33.6	54	-20.4	-	-	-	-	242	115	V
7	* ** 3.84986	62.47	PK-U	33.5	-49.4	0	46.57	-	-	74	-27.43	-	-	350	102	V
	* ** 3.84997	56.99	ADV	33.5	-49.4	.42	41.51	54	-12.49	-	-	-	-	350	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - Maximum Peak

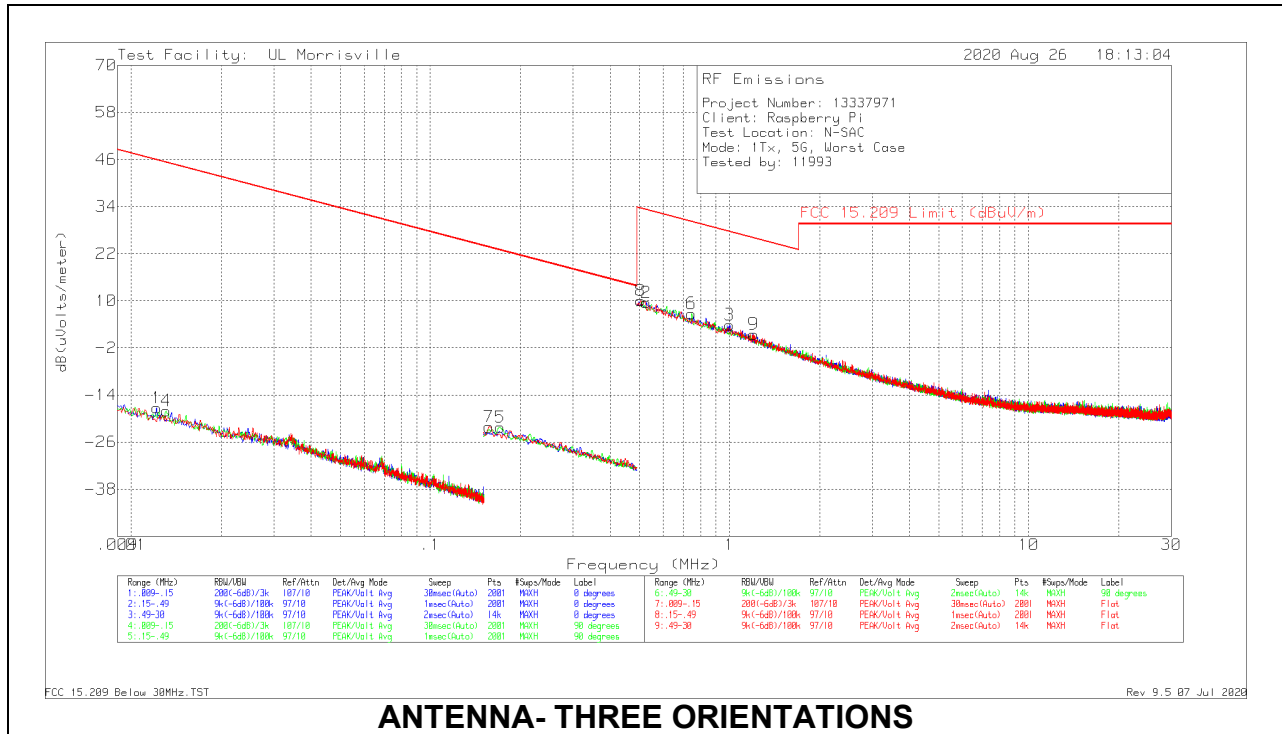
ADV - Linear Voltage Average

9.2. WORST CASE BELOW 30MHZ

Note for below 30 MHz scans: All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz – 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were $40 \cdot \log(\text{test distance} / \text{specification distance})$.

The below 30 MHz limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω . For example, the measurement frequency 25.47 kHz resulted in a level of -22.26 dBuV/m, which is equivalent to $-22.26 - 51.5 = -73.77$ dBuA/m, which has the same margin, -61.74 dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

SPURIOUS EMISSIONS BELOW 30 MHz (WORST-CASE CONFIGURATION) – Antenna 1



ANTENNA- THREE ORIENTATIONS

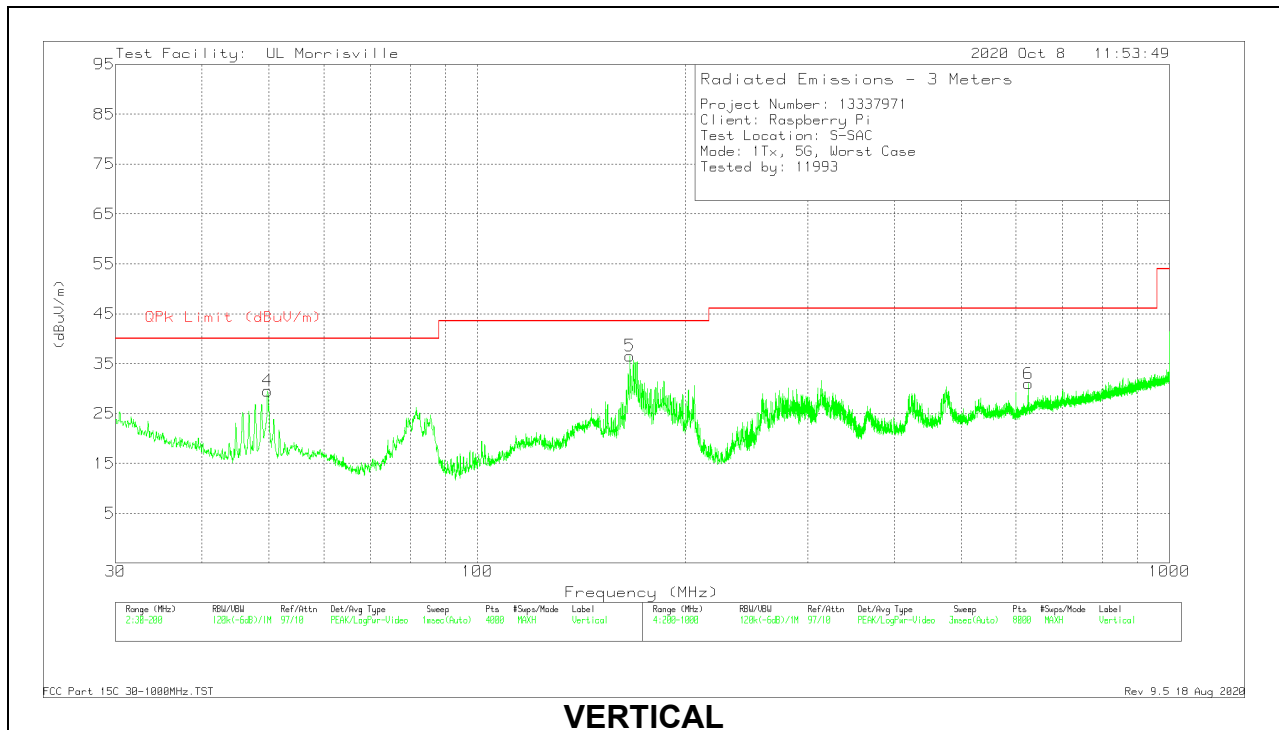
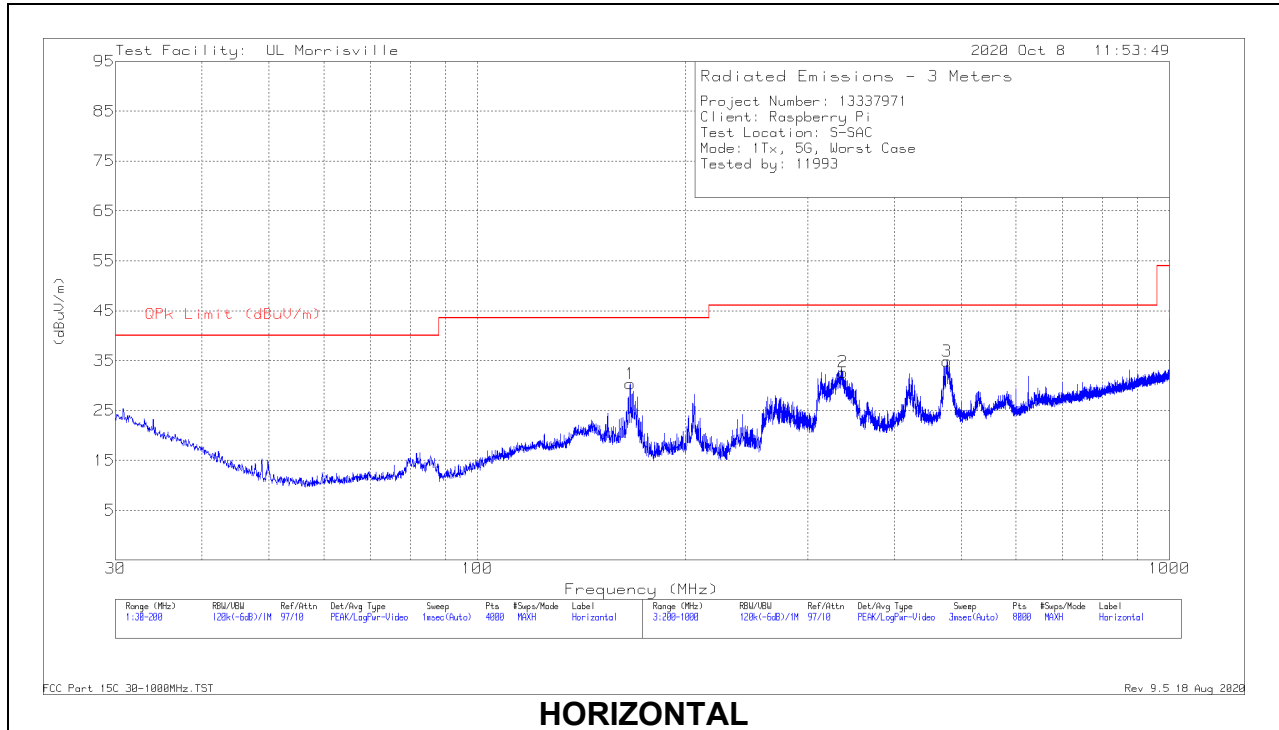
Below 30MHz Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0059 (dB/m)	Cbl (dB)	Dist. Corr. Factor (dB)	Corrected Reading dB(uVolts/meter)	FCC 15.209 Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Antenna Face
1	.0122	44.85	Pk	17.8	.1	-80	-17.25	45.88	-63.13	0-360	On
2	.52794	38.92	Pk	10.4	.2	-40	9.52	33.15	-23.63	0-360	On
3	1.00224	33.05	Pk	10.6	.2	-40	3.85	27.58	-23.73	0-360	On
4	.01312	44.47	Pk	17.4	.1	-80	-18.03	45.25	-63.28	0-360	Off
5	.17125	47.28	Pk	10.4	.1	-80	-22.22	22.93	-45.15	0-360	Off
6	.74718	36.25	Pk	10.3	.2	-40	6.75	30.14	-23.39	0-360	Off
7	.15714	47.38	Pk	10.4	.1	-80	-22.12	23.68	-45.8	0-360	Flat
8	.50476	39.43	Pk	10.4	.2	-40	10.03	33.54	-23.51	0-360	Flat
9	1.20461	30.67	Pk	10.6	.2	-40	1.47	25.99	-24.52	0-360	Flat

Pk - Peak detector

9.3. WORST CASE BELOW 1 GHZ

Antenna 1



Below 1GHz DATA

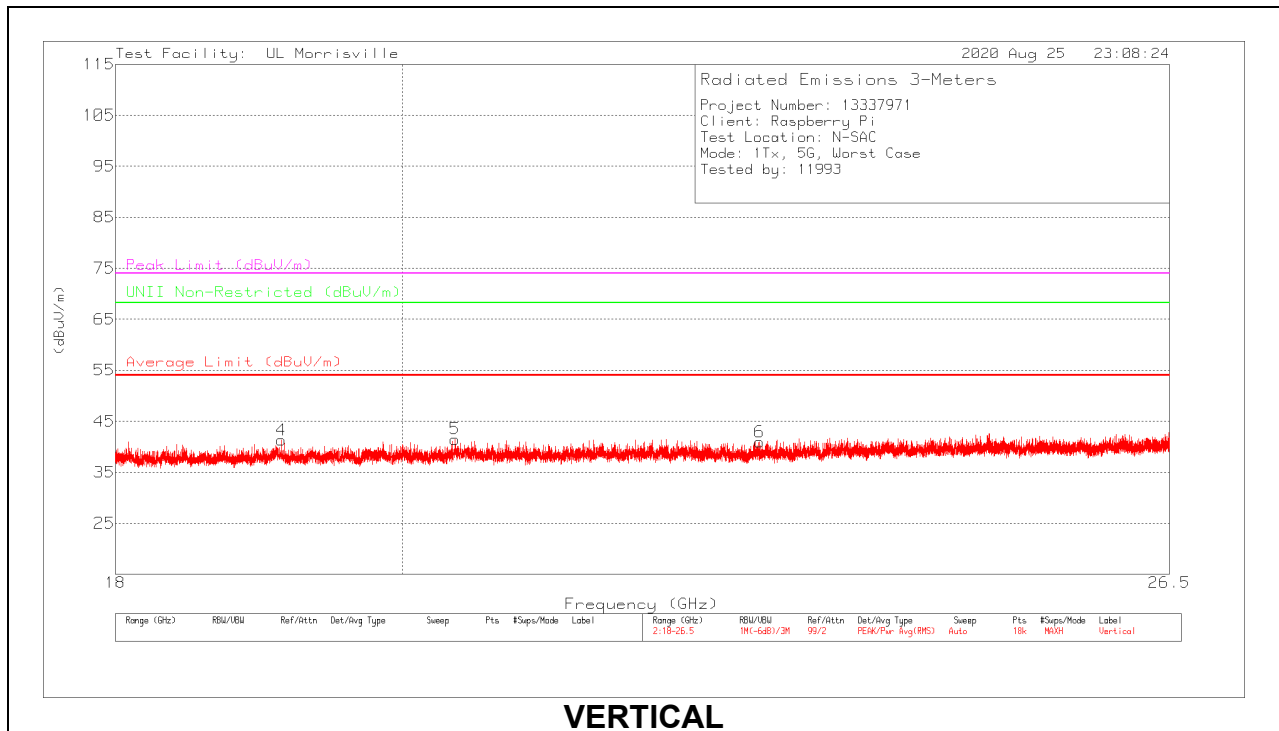
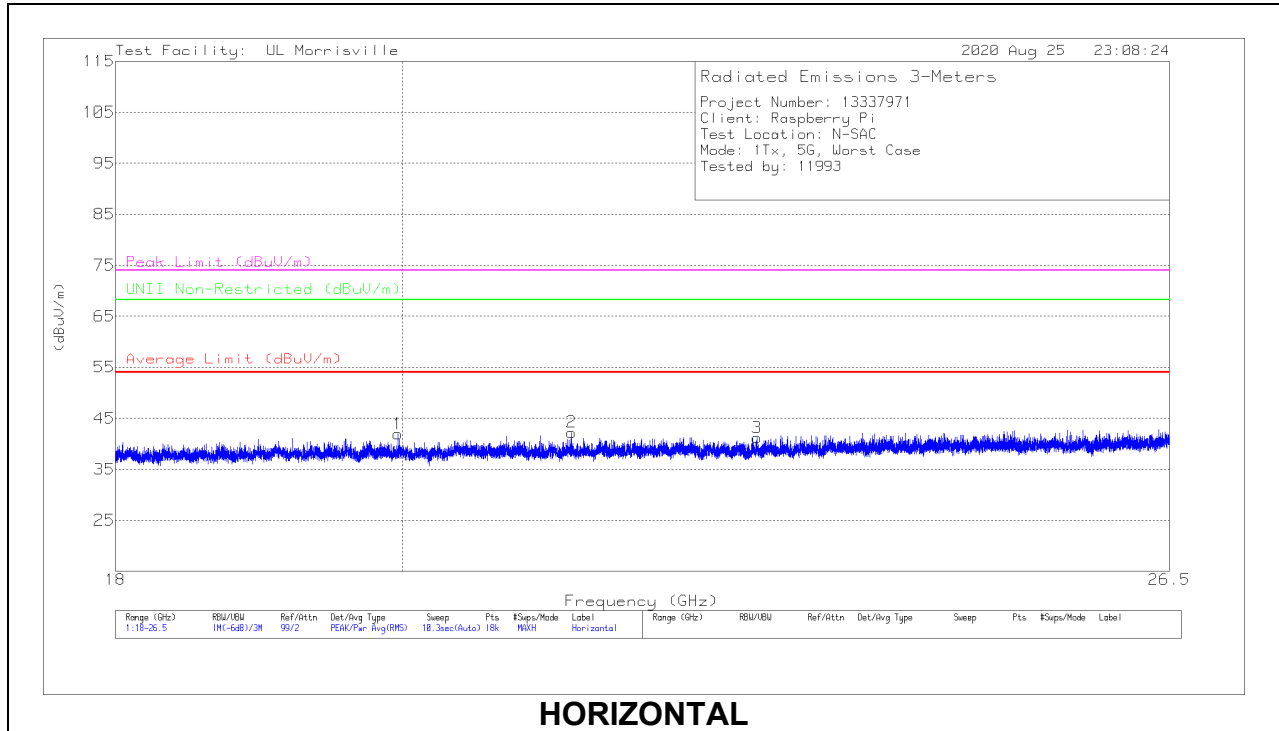
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AT0074 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	166.2903	42.14	Pk	18.1	-29.9	30.34	43.52	-13.18	0-360	200	H
2	337.3178	41.18	Pk	20.1	-28.6	32.68	46.02	-13.34	0-360	101	H
3	476.636	39.2	Pk	23.7	-28	34.9	46.02	-11.12	0-360	101	H
4	49.7676	46.45	Pk	14.3	-31.2	29.55	40	-10.45	0-360	101	V
5	166.1627	48.37	Pk	18.1	-29.9	36.57	43.52	-6.95	0-360	101	V
6	625.0553	32.78	Pk	25.4	-27.2	30.98	46.02	-15.04	0-360	101	V

Pk - Peak detector

Qp - Quasi-Peak detector

9.4. WORST CASE 18-26 GHZ

Antenna 1



18 – 26GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0076 AF (dB/m)	Amp/CBL (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 19.96597	49.61	Pk	32.9	-40.6	41.91	54	-12.09	74	-32.09	-	-	0-360	250	H
2	*** 21.27929	49.75	Pk	33.2	-40.7	42.25	54	-11.75	74	-31.75	-	-	0-360	200	H
3	*** 22.78057	48.68	Pk	33.6	-41.1	41.18	54	-12.82	74	-32.82	-	-	0-360	150	H
4	*** 19.13103	49.24	Pk	32.8	-40.7	41.34	54	-12.66	74	-32.66	-	-	0-360	101	V
5	*** 20.3891	49.01	Pk	33.1	-40.6	41.51	54	-12.49	74	-32.49	-	-	0-360	250	V
6	*** 22.8004	48.47	Pk	33.6	-41.1	40.97	54	-13.03	74	-33.03	-	-	0-360	200	V

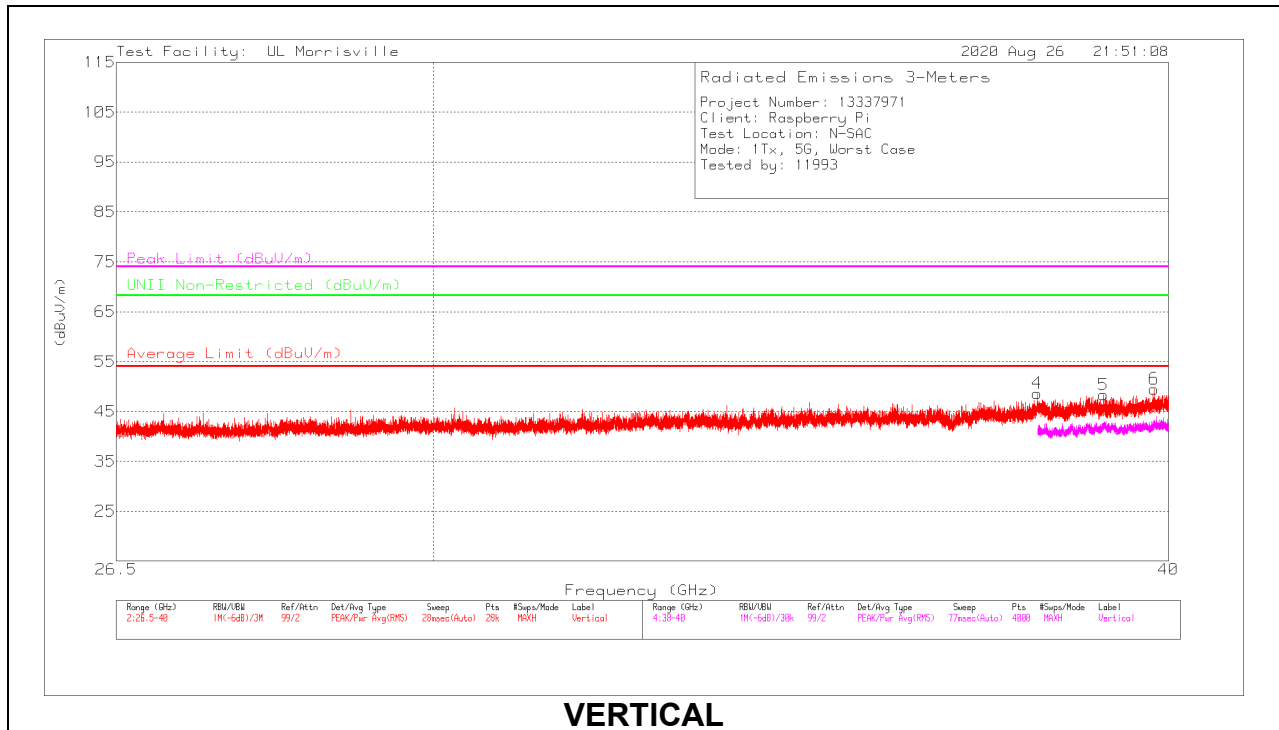
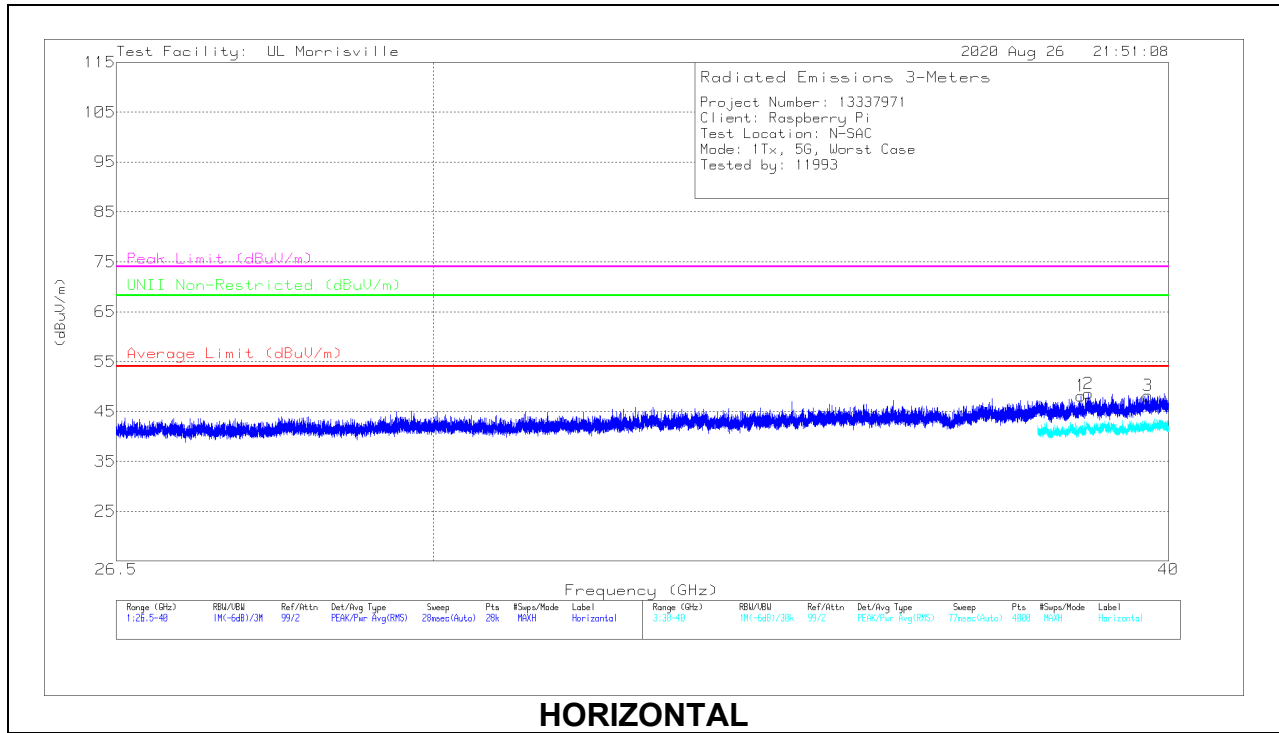
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

9.5. WORST CASE 26-40 GHZ

Antenna 1



26 – 40GHz DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0077 AF (dB/m)	Amp/CBL (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 38.6492	46.86	PK-U	38.5	-36.4	48.96	-	-	74	-25.04	-	-	266	282	H
	** 38.64929	33.57	ADV	38.5	-36.4	35.67	54	-18.33	-	-	-	-	266	282	H
2	** 38.76517	46.82	PK-U	38.5	-36.2	49.12	-	-	74	-24.88	-	-	8	330	H
	*** 38.76513	33.59	ADV	38.5	-36.2	35.89	54	-18.11	-	-	-	-	8	330	H
3	** 39.67521	45.61	PK-U	38.5	-35.4	48.71	-	-	74	-25.29	-	-	35	239	H
	*** 39.67529	32.54	ADV	38.5	-35.4	35.64	54	-18.36	-	-	-	-	35	239	H
5	** 38.99216	47.72	PK-U	38.5	-36.5	49.72	-	-	74	-24.28	-	-	308	113	V
	*** 38.99218	34.29	ADV	38.5	-36.5	36.29	54	-17.71	-	-	-	-	308	113	V
6	** 39.77528	45.82	PK-U	38.7	-35.5	49.02	-	-	74	-24.98	-	-	15	385	V
	*** 39.77451	33.03	ADV	38.7	-35.5	36.23	54	-17.77	-	-	-	-	15	385	V
4	37.99853	47.29	PK-U	38	-36.7	48.59	-	-	-	-	68.2	-19.61	299	208	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

10. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)
RSS-Gen 8.8

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

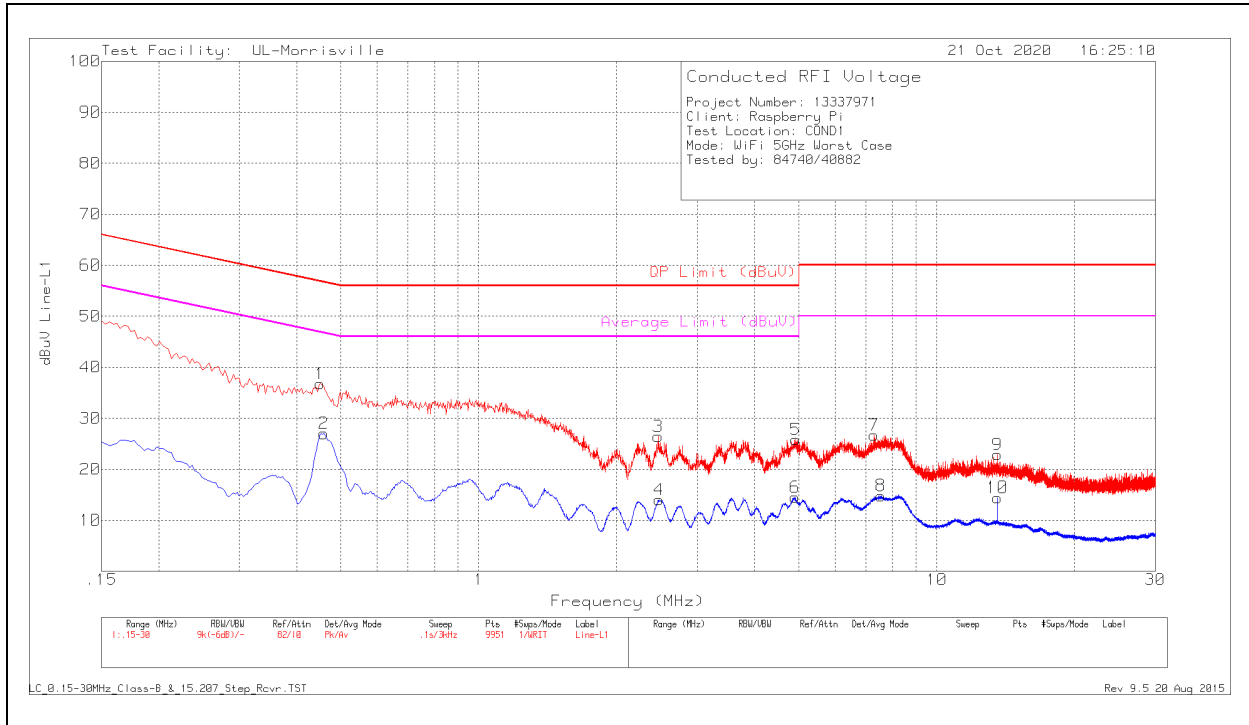
TEST PROCEDURE

ANSI C63.10

RESULTS

10.1. ANTENNA 1

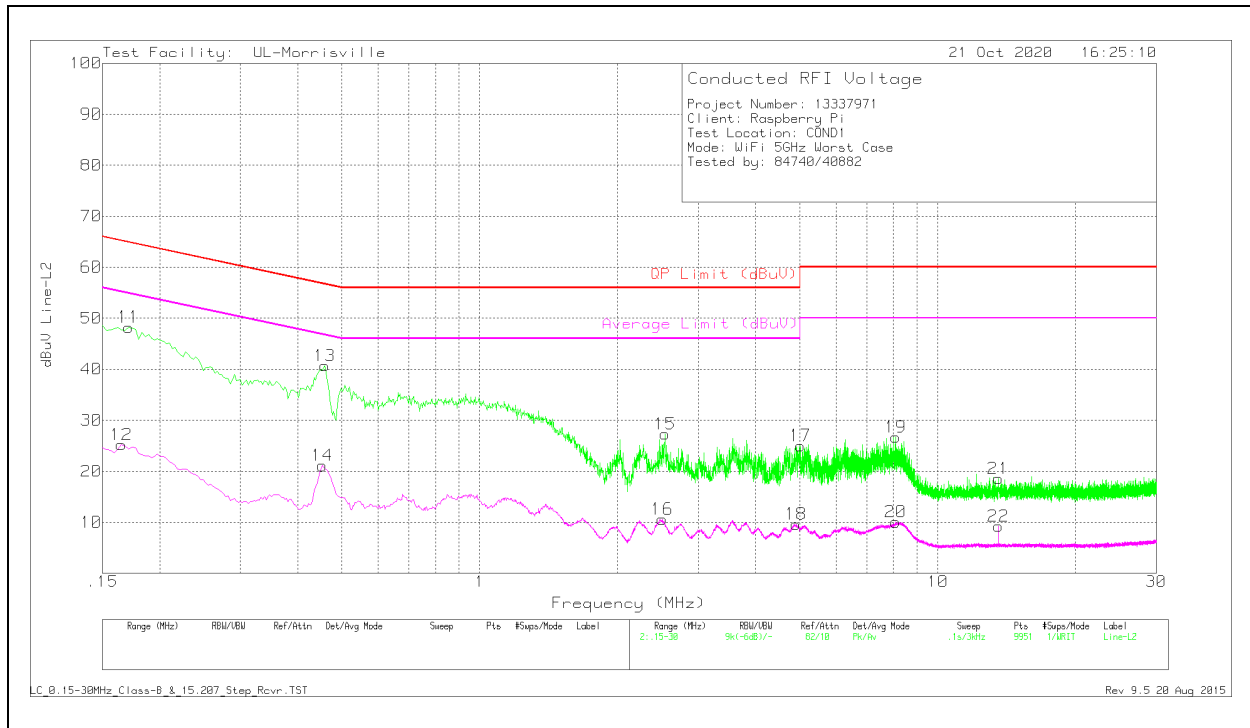
LINE 1 RESULTS



Range 1: Line=L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
1	.45	26.89	Pk	.1	9.8	36.79	56.88	-20.09	-	-
2	.459	17.12	Av	.1	9.8	27.02	-	-	46.71	-19.69
3	2.463	16.61	Pk	0	9.8	26.41	56	-29.59	-	-
4	2.472	4.21	Av	0	9.8	14.01	-	-	46	-31.99
5	4.923	15.91	Pk	0	9.9	25.81	56	-30.19	-	-
6	4.899	4.59	Av	0	9.9	14.49	-	-	46	-31.51
7	7.296	16.66	Pk	.1	9.9	26.66	60	-33.34	-	-
8	7.545	4.82	Av	.1	9.9	14.82	-	-	50	-35.18
9	13.56	12.77	Pk	.1	10	22.87	60	-37.13	-	-
10	13.56	4.34	Av	.1	10	14.44	-	-	50	-35.56

Pk - Peak detector
 Av - Average detection

LINE 2 RESULTS



Range 2: Line-L2 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	LISN VCF (dB)	Cbl/Limiter (dB)	Corrected Reading dBuV	QP Limit (dBuV)	Margin (dB)	Average Limit (dBuV)	Margin (dB)
11	.171	38.36	Pk	.2	9.7	48.26	64.91	-16.65	-	-
12	.165	15.32	Av	.2	9.7	25.22	-	-	55.21	-29.99
13	.459	30.77	Pk	.1	9.8	40.67	56.71	-16.04	-	-
14	.453	11.22	Av	.1	9.8	21.12	-	-	46.82	-25.7
15	2.538	17.47	Pk	0	9.8	27.27	56	-28.73	-	-
16	2.502	.83	Av	0	9.8	10.63	-	-	46	-35.37
17	5.007	15.02	Pk	.1	9.9	25.02	60	-34.98	-	-
18	4.899	-.35	Av	.1	9.9	9.65	-	-	46	-36.35
19	8.082	16.58	Pk	.1	10	26.68	60	-33.32	-	-
20	8.085	-.04	Av	.1	10	10.06	-	-	50	-39.94
21	13.557	8.51	Pk	.1	10	18.61	60	-41.39	-	-
22	13.56	-.87	Av	.1	10	9.23	-	-	50	-40.77

Pk - Peak detector
 Av - Average detection

11. SETUP PHOTOS

Please refer to R13179001-EP1 for setup photos.

END OF TEST REPORT