



CERTIFICATION TEST REPORT

Report Number. : R13158070-E5

Applicant : Braun GMBH
T-QTA Frankfurter Strasses 145
Kronberg TS, D-61476
Germany

Model : 3783

FCC ID : 2AG9A51910

EUT Description : Wireless Toothbrush Charging Base

Test Standard(s) : FCC 47 CFR PART 15 SUBPART E

Date Of Issue:

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REPORT REVISION HISTORY

Rev.	Issue Date	Revisions	Revised By
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TABLE OF CONTENTS

REPORT REVISION HISTORY	2
TABLE OF CONTENTS	3
1. ATTESTATION OF TEST RESULTS	6
2. TEST METHODOLOGY	7
3. FACILITIES AND ACCREDITATION	7
4. CALIBRATION AND UNCERTAINTY	8
4.1. MEASURING INSTRUMENT CALIBRATION	8
4.2. SAMPLE CALCULATION	8
4.3. MEASUREMENT UNCERTAINTY	8
5. EQUIPMENT UNDER TEST	9
5.1. EUT DESCRIPTION	9
5.2. MAXIMUM OUTPUT POWER.....	9
5.3. DESCRIPTION OF AVAILABLE ANTENNAS	11
5.4. SOFTWARE AND FIRMWARE.....	11
5.5. WORST-CASE CONFIGURATION AND MODE.....	11
5.6. DESCRIPTION OF TEST SETUP.....	12
6. MEASUREMENT METHOD.....	13
7. TEST AND MEASUREMENT EQUIPMENT	14
8. ANTENNA PORT TEST RESULTS.....	17
8.1. ON TIME AND DUTY CYCLE.....	17
8.2. 26 dB BANDWIDTH.....	19
8.2.1. 802.11a MODE IN THE 5.2 GHz BAND.....	20
8.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND	21
8.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND	22
8.2.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND	23
8.2.5. 802.11a MODE IN THE 5.3 GHz BAND.....	24
8.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND	25
8.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND	26
8.2.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND	27
8.2.9. 802.11a MODE IN THE 5.6 GHz BAND.....	28
8.2.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND	29
8.2.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND	30
8.2.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND	31
8.3. 99% BANDWIDTH.....	32

8.3.1.	802.11a MODE IN THE 5.2 GHz BAND.....	33
8.3.2.	802.11n HT20 MODE IN THE 5.2 GHz BAND	34
8.3.3.	802.11n HT40 MODE IN THE 5.2 GHz BAND	35
8.3.4.	802.11ac VHT80 MODE IN THE 5.2 GHz BAND	36
8.3.5.	802.11a MODE IN THE 5.3 GHz BAND.....	37
8.3.6.	802.11n HT20 MODE IN THE 5.3 GHz BAND	38
8.3.7.	802.11n HT40 MODE IN THE 5.3 GHz BAND	39
8.3.8.	802.11ac VHT80 MODE IN THE 5.3 GHz BAND	40
8.3.9.	802.11a MODE IN THE 5.6 GHz BAND.....	41
8.3.10.	802.11n HT20 MODE IN THE 5.6 GHz BAND	42
8.3.11.	802.11n HT40 MODE IN THE 5.6 GHz BAND	43
8.3.12.	802.11ac VHT80 MODE IN THE 5.6 GHz BAND	44
8.3.13.	802.11a MODE IN THE 5.8 GHz BAND.....	45
8.3.14.	802.11n HT20 MODE IN THE 5.8 GHz BAND	46
8.3.15.	802.11n HT40 MODE IN THE 5.8 GHz BAND	47
8.3.16.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	48
8.4.	6 dB BANDWIDTH.....	49
8.4.1.	802.11a MODE IN THE 5.8 GHz BAND.....	50
8.4.2.	802.11n HT20 MODE IN THE 5.8 GHz BAND	51
8.4.3.	802.11n HT40 MODE IN THE 5.8 GHz BAND	52
8.4.4.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	53
8.5.	OUTPUT POWER AND PSD.....	55
8.5.1.	802.11a MODE IN THE 5.2 GHz BAND.....	56
8.5.2.	802.11n HT20 MODE IN THE 5.2 GHz BAND	58
8.5.3.	802.11n HT40 MODE IN THE 5.2 GHz BAND	60
8.5.4.	802.11ac VHT80 MODE IN THE 5.2 GHz BAND	62
8.5.5.	802.11a MODE IN THE 5.3 GHz BAND.....	64
8.5.6.	802.11n HT20 MODE IN THE 5.3 GHz BAND	66
8.5.7.	802.11n HT40 MODE IN THE 5.3 GHz BAND	68
8.5.8.	802.11ac VHT80 MODE IN THE 5.3 GHz BAND	70
8.5.9.	802.11a MODE IN THE 5.6 GHz BAND.....	72
8.5.10.	802.11n HT20 MODE IN THE 5.6 GHz BAND	74
8.5.11.	802.11n HT40 MODE IN THE 5.6 GHz BAND	76
8.5.12.	802.11ac VHT80 MODE IN THE 5.6 GHz BAND	78
8.5.13.	802.11a MODE IN THE 5.8 GHz BAND.....	80
8.5.14.	802.11n HT20 MODE IN THE 5.8 GHz BAND	82
8.5.15.	802.11n HT40 MODE IN THE 5.8 GHz BAND	84
8.5.16.	802.11ac VHT80 MODE IN THE 5.8 GHz BAND	86
9.	RADIATED TEST RESULTS.....	88
9.1.	TRANSMITTER ABOVE 1 GHz.....	90
9.1.1.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.2 GHz BAND	90
9.1.2.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND.....	98
9.1.3.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND.....	106
9.1.4.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND.....	112
9.1.5.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.3 GHz BAND	116
9.1.6.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND.....	124
9.1.7.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.3 GHz BAND.....	132
9.1.8.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.3 GHz BAND.....	138

9.1.9.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.6 GHz BAND	142
9.1.10.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.6 GHz BAND.....	154
9.1.11.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.6 GHz BAND.....	166
9.1.12.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.6 GHz BAND.....	178
9.1.13.	TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND	190
9.1.14.	TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND.....	200
9.1.15.	TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND.....	210
9.1.16.	TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.8 GHz BAND.....	218
9.2.	WORST CASE BELOW 30MHZ	224
9.3.	WORST CASE BELOW 1 GHZ.....	225
9.4.	WORST CASE 18-26 GHZ	227
9.5.	WORST CASE 26-40 GHZ	229
10.	AC POWER LINE CONDUCTED EMISSIONS.....	231
10.1.1.	AC Power Line Norm	232
11.	SETUP PHOTOS.....	234

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Braun GMBH
T-QTA Frankfurter Strasses 145
Kronberg TS, D-61476
Germany

EUT DESCRIPTION: Wireless Toothbrush Charging Base

MODEL: 3783

SERIAL NUMBER: Charging base: BW012969000010

DATE RECEIVED: 2019-12-19

DATE TESTED: 2019-12-31 to 2020-01-22

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Complies

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.

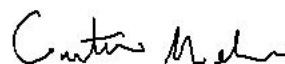
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2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, FCC 14-30, FCC KDB 905462 D02 v02/D03 v01r02/D06 v02, FCC KDB 789033 D02 v02r01, ANSI C63.10-2013, FCC 06-96.

3. 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 Suite Perimeter Park Dr., 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 Suite Perimeter Park Dr.
☐ Chamber A RTP	☒ North Chamber
☐ Chamber C RTP	☒ South Chamber

The above test sites and facilities are covered under FCC Test Firm Registration # 703469

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

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. 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)
 $36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} = 28.9 \text{ dBuV/m}$

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

4.3. 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)	4.52 dB
Power Spectral Density, conducted	2.47 dB
Unwanted Emissions, conducted	2.50 dB
All emissions, radiated	4.88 dB
Conducted Emissions (0.150-30MHz) - LISN	3.07 dB
Temperature	2.26°C
Humidity	6.79%
DC Supply voltages	1.70%
Time	3.39%

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

5. EQUIPMENT UNDER TEST

5.1. EUT DESCRIPTION

The EUT is a wireless toothbrush charging base with a BT/BLE/2.4/5GHz WLAN radio and a WPT radio that operates from 30-47 kHz. This reports covers the 5GHz UNII function of the device.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

5.2 GHz BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.2 GHz band, 1TX			
5180-5240	802.11a	19.45	88.10
5180-5240	802.11n HT20	19.39	86.90
5190-5230	802.11n HT40	18.68	73.79
5210	802.11ac VHT80	16.35	43.15

5.3 GHz BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.3 GHz band, 1TX			
5260 - 5320	802.11a	19.78	95.06
5260 - 5320	802.11n HT20	19.49	88.92
5270 - 5310	802.11n HT40	18.73	74.64
5290	802.11ac VHT80	17.46	55.72

5.6 GHz BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.6 GHz band, 1TX			
5500-5720	802.11a	18.68	73.79
5500-5720	802.11n HT20	18.56	71.78
5510-5710	802.11n HT40	17.68	58.61
5530-5690	802.11ac VHT80	16.55	45.19

5.8 GHz BAND (FCC)

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
5.8 GHz band, 1TX			
5745-5825	802.11a	18.50	70.79
5745-5825	802.11n HT20	18.61	72.61
5755-5795	802.11n HT40	17.67	58.47
5775	802.11ac VHT80	17.48	55.98

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of 5.77 dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT firmware installed during testing was Type 3782 firmware version:V12, Type 3783 firmware version: V20.

5.5. WORST-CASE CONFIGURATION AND MODE

Radiated emissions in the range of 1-18GHz were tested with the EUT continuously transmitting on low, mid, and high channels.

AC Mains Line Conducted and radiated emissions in the ranges of 0.009-30MHz, 30-1000MHz, and 18-26GHz were are tested at worst-case channel based on power and PSD.

EUT only intended to operate in one orientation. Therefore all testing performed with EUT in its intended orientation.

Worst-case data rates as provided by the client were:

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

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Toothbrush	Braun	3765	BC811081911	USQ3765
Toothbrush	Braun	3765	BC811081913	USQ3765
Power supply	Braun	3780	Non-serialized	N/A

I/O CABLES

I/O Cable List						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	1	1	Proprietary 2 prong	2 conductor wire	<3	None

TEST SETUP

The EUT is powered by a power supply. The EUT begins charging as soon as powered up.

SETUP DIAGRAMS

Please refer to R13158070-EP2 for setup diagrams

6. MEASUREMENT METHOD

On Time and Duty Cycle: KDB 789033 D02 v02r01, Section B.

6 dB Emission BW: KDB 789033 D02 v02r01, Section C.2

26 dB Emission BW: KDB 789033 D02 v02r01, Section C.1

99% Occupied BW: KDB 789033 D02 v02r01, Section D.

Conducted Output Power: KDB 789033 D02 v02r01, Section E.3.b (Method PM-G)

Power Spectral Density: KDB 789033 D02 v02r01, Section F

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.

AC Power Line Conducted Emissions: ANSI C63.10-2013, Section 6.2.

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

Use of IEEE 802.11 channels that straddle the UNII-2C and UNII-3 bands at 5725 MHz: KDB 789033 D02 v02r01, Section III

7. 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 (Morrisville - North Chamber)

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
30-1000 MHz					
AT0073	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2019-008-08	2020-08-08
1-18 GHz					
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-03-22	2020-03-22
Gain-Loss Chains					
N-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2019-05-02	2020-05-02
N-SAC03	Gain-loss string: 1-18GHz	Various	Various	2019-03-15	2020-03-15
Receiver & Software					
SA0026	Spectrum Analyzer	Agilent	N9030A	2019-03-19	2020-03-19
SOFTEMI	EMI Software	UL	Version 9.5 June 15, 2019	NA	NA
Additional Equipment used					
s/n 181474341	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
0.009-30MHz (Loop Ant.)					
AT0079	Active Loop Antenna	ETS-Lindgren	6502	2019-08-08	2020-08-08
30-1000 MHz					
AT0074	Hybrid Broadband Antenna	Sunol Sciences Corp.	JB3	2019-07-16	2020-07-16
1-18 GHz					
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-04-22	2020-04-22
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					
S-SAC01	Gain-loss string: 0.009-30MHz	Various	Various	2019-05-02	2020-05-02
S-SAC02	Gain-loss string: 25-1000MHz	Various	Various	2019-05-02	2020-05-02
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2019-03-13	2020-03-13
S62/AMP017/CBL2 69426-001 (Effective 09/20/2019)	Gain-loss string:18-40GHz	Huber+Suhner Miteq MegaPhase	SUCOFLEX 102EA TTA1840-35-HG NC12-K1K1-216	2019-03-21	2020-03-21
Receiver & Software					
SA0025	Spectrum Analyzer	Agilent	N9030A	2019-02-28	2020-02-28
SA0027 (18-40GHz RSE)	Spectrum Analyzer	Agilent	N9030A	2019-05-15	2020-05-15
SOFTEMI	EMI Software	UL	Version 9.5 June 15, 2019	NA	NA

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

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
CBL087	Coax cable, RG223, N-male to BNC-male, 20-ft.	Pasternack	PE3W06143-240	2019-05-29	2020-05-29
CDECABLE001	ANSI C63.4 1m extension cable.	UL	Per Annex B of ANSI C63.4	2019-07-10	2020-07-10
s/n 181562858	Environmental Meter	Fisher Scientific	14-650-118	2018-09-04	2020-09-04
LISN003	LISN, 50-ohm/50-uH, 2-conductor, 25A	Fischer Custom Com.	FCC-LISN-50-25-2-01-550V	2019-08-19	2020-08-19
75141 (PRE0101521)	EMI Test Receiver 9kHz-7GHz	Rohde & Schwarz	ESCI 7	2019-08-20	2020-08-20
TL001	Transient Limiter, 0.009-30MHz	Com-Power	LIT-930A	2019-05-29	2020-05-29
PS215	AC Power Source	Elgar	CW2501M (s/n 1523A02397)	NA	NA
SOFTEMI	EMI Software	UL	Version 9.5 June 15, 2019	NA	NA

Test Equipment Used - Wireless Conducted Measurement Equipment

Equip. ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
Conducted Room 2					
T177 (PRE0079253)	Spectrum Analyzer	Agilent Technologies	E4446A	2019-04-22	2020-04-22
PWS002 (PRE0137348)	Peak and Avg Power Sensor, 50MHz to 18GHz	Keysight Technologies	N1921A	2019-08-23	2020-08-23
PWM002 (PRE0137344)	RF Power Meter	Keysight Technologies	N1911A	2019-08-23	2020-08-23
SN 181474341	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27
SOFTEMI	EMC Software	UL	Version 1.8 AP2020	NA	NA

8. ANTENNA PORT TEST RESULTS

8.1. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method.

ON TIME AND DUTY CYCLE RESULTS

Voltage Averaging Duty Cycle (Radiated Testing)

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11a	1.386	1.492	0.929	92.90%	0.64	0.722
802.11n HT20	1.290	1.395	0.925	92.47%	0.68	0.775
802.11n HT40	0.6473	0.7461	0.868	86.76%	1.23	1.545
802.11ac VHT80	0.3241	0.4222	0.768	76.76%	2.30	3.085

Power Averaging Duty Cycle (Conducted Testing)

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11a	1.386	1.492	0.929	92.90%	0.32	0.722
802.11n HT20	1.290	1.395	0.925	92.47%	0.34	0.775
802.11n HT40	0.6473	0.7461	0.868	86.76%	0.62	1.545
802.11ac VHT80	0.3241	0.4222	0.768	76.76%	1.15	3.085

DUTY CYCLE PLOTS



8.2. 26 dB BANDWIDTH

LIMITS

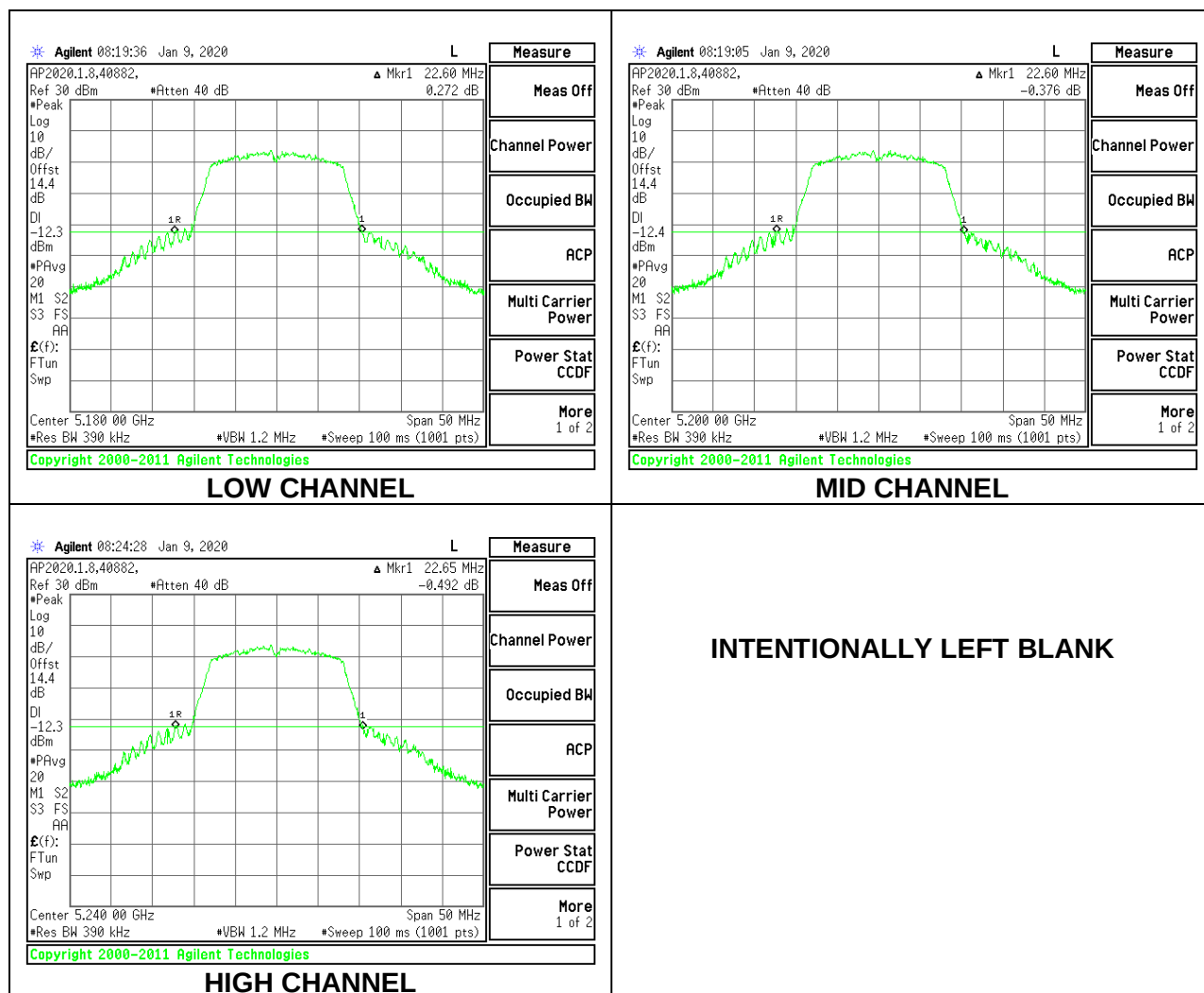
None; for reporting purposes only.

RESULTS

8.2.1. 802.11a MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

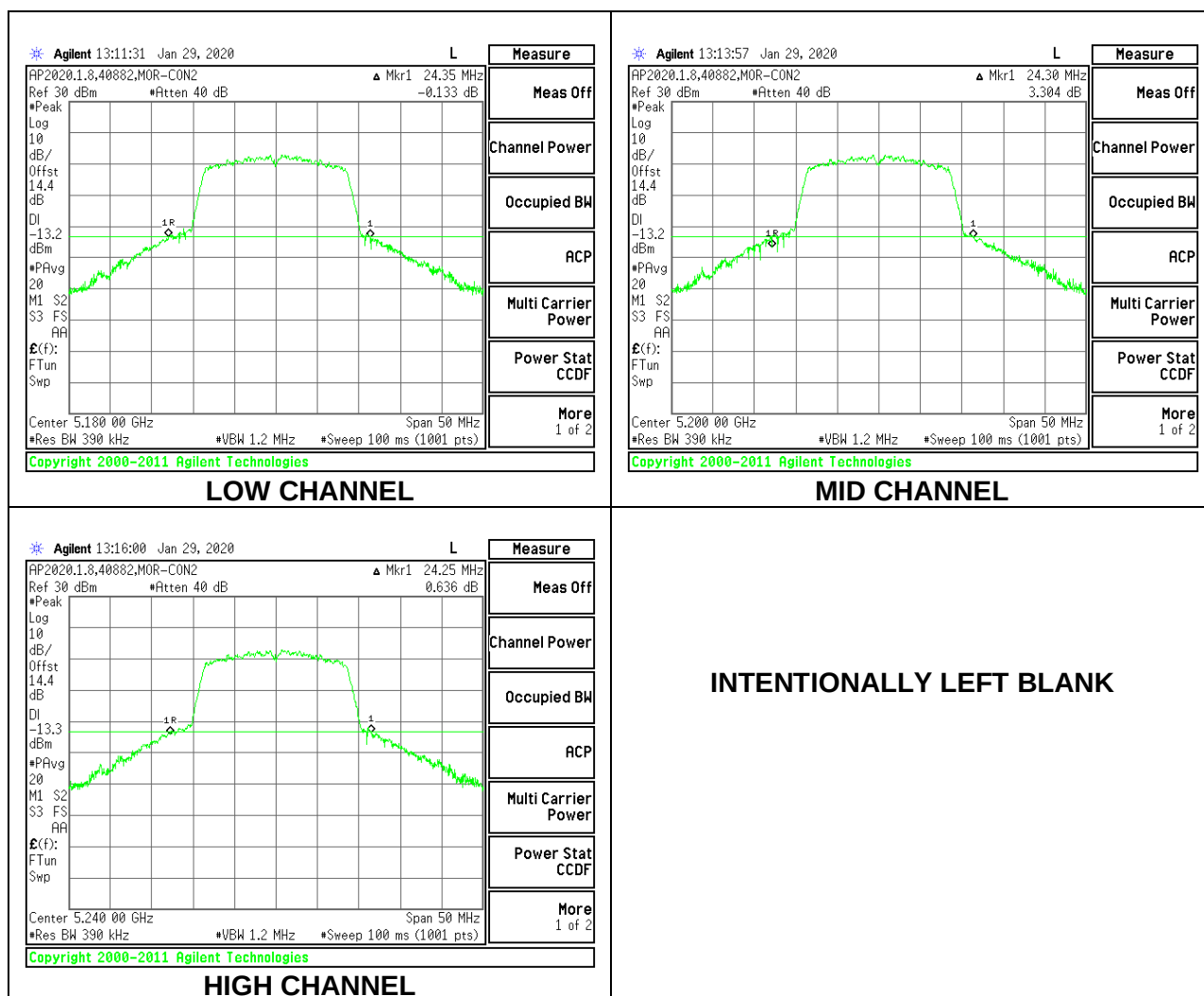
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5180	22.60
Mid	5200	22.60
High	5240	22.65



8.2.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

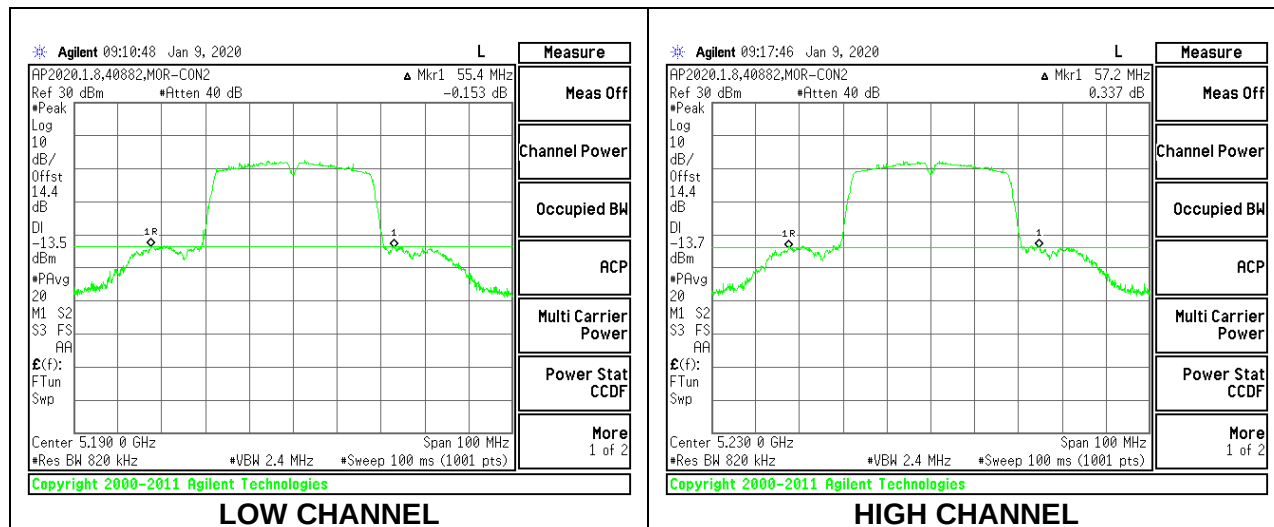
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5180	24.35
Mid	5200	24.30
High	5240	24.25



8.2.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

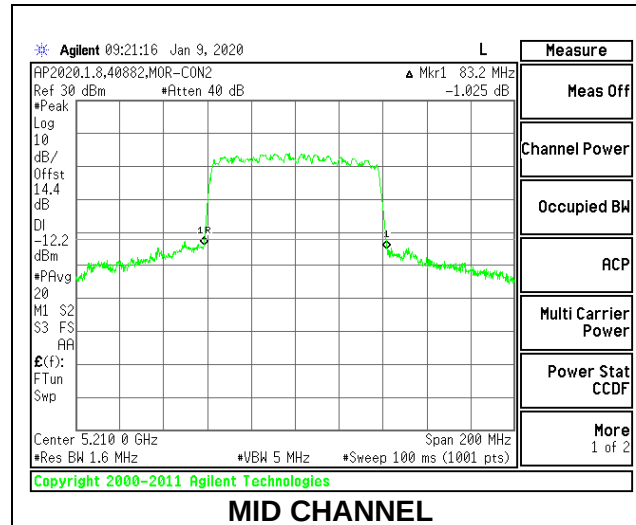
Channel	Frequency	26dB Bandwidth
	(MHz)	(MHz)
Low	5190	55.40
High	5230	57.20



8.2.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

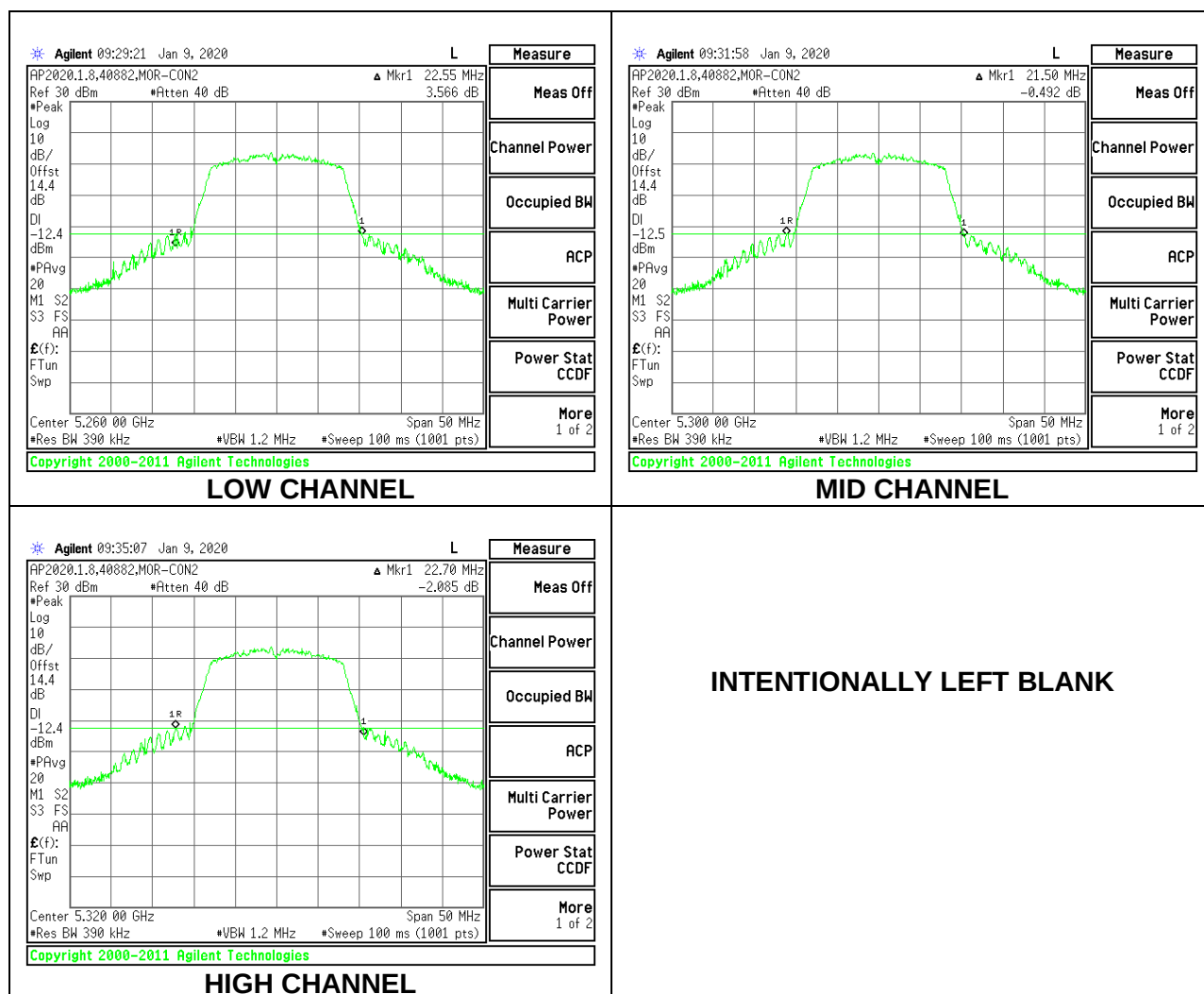
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5210	83.20



8.2.5. 802.11a MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

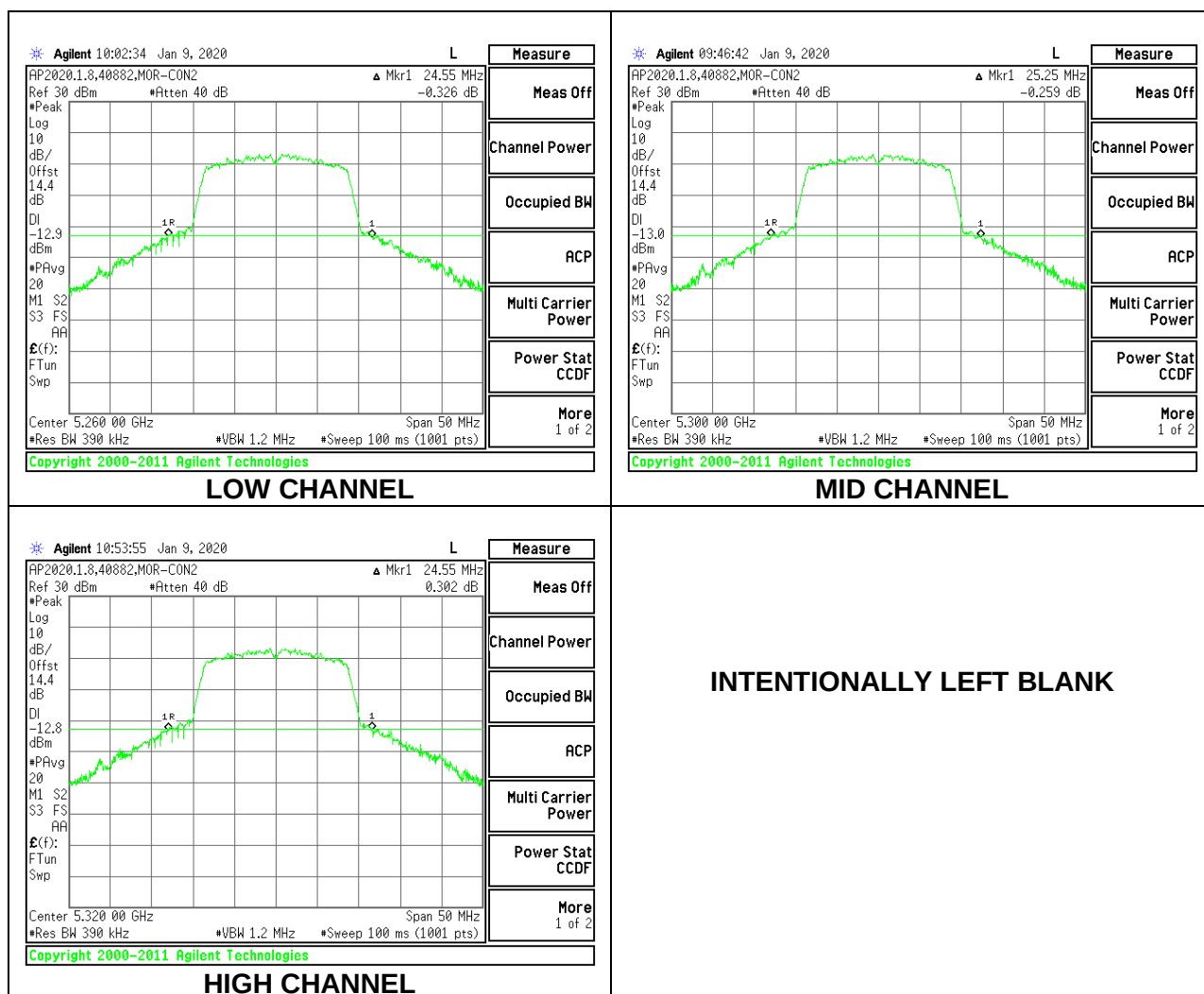
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5260	22.55
Mid	5300	21.50
High	5320	22.70



8.2.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

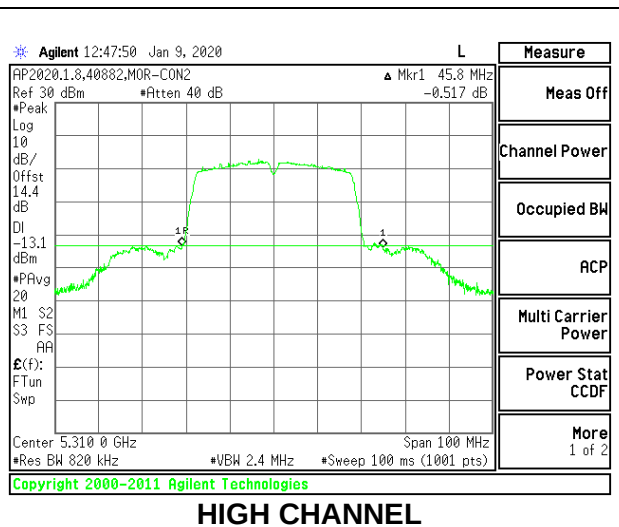
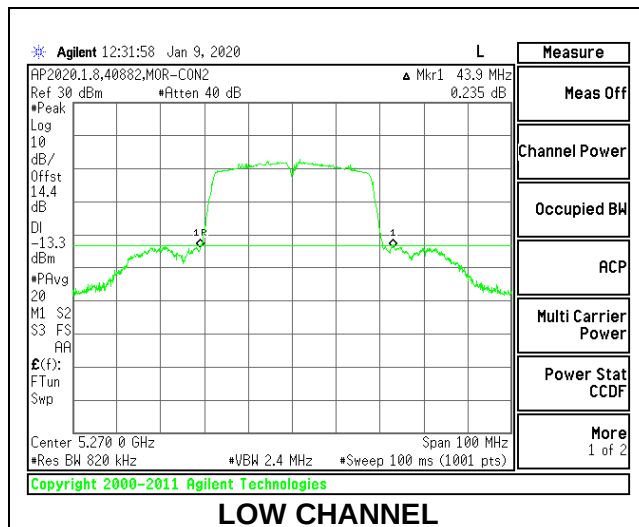
Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5260	24.55
Mid	5300	25.25
High	5320	24.55



8.2.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

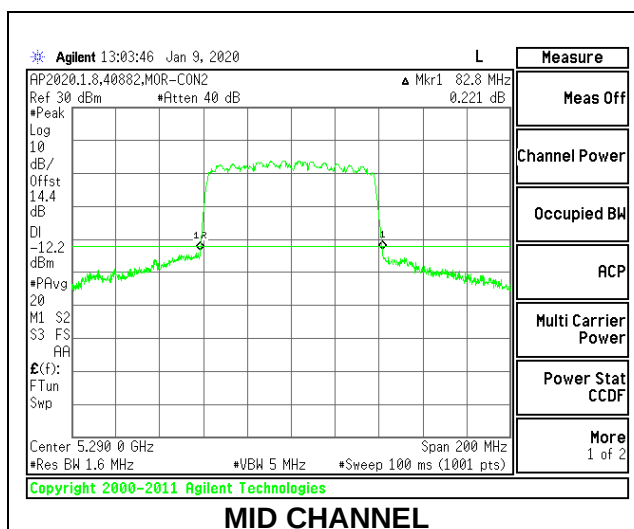
Channel	Frequency	26dB Bandwidth
	(MHz)	(MHz)
Low	5270	43.90
High	5310	45.80



8.2.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

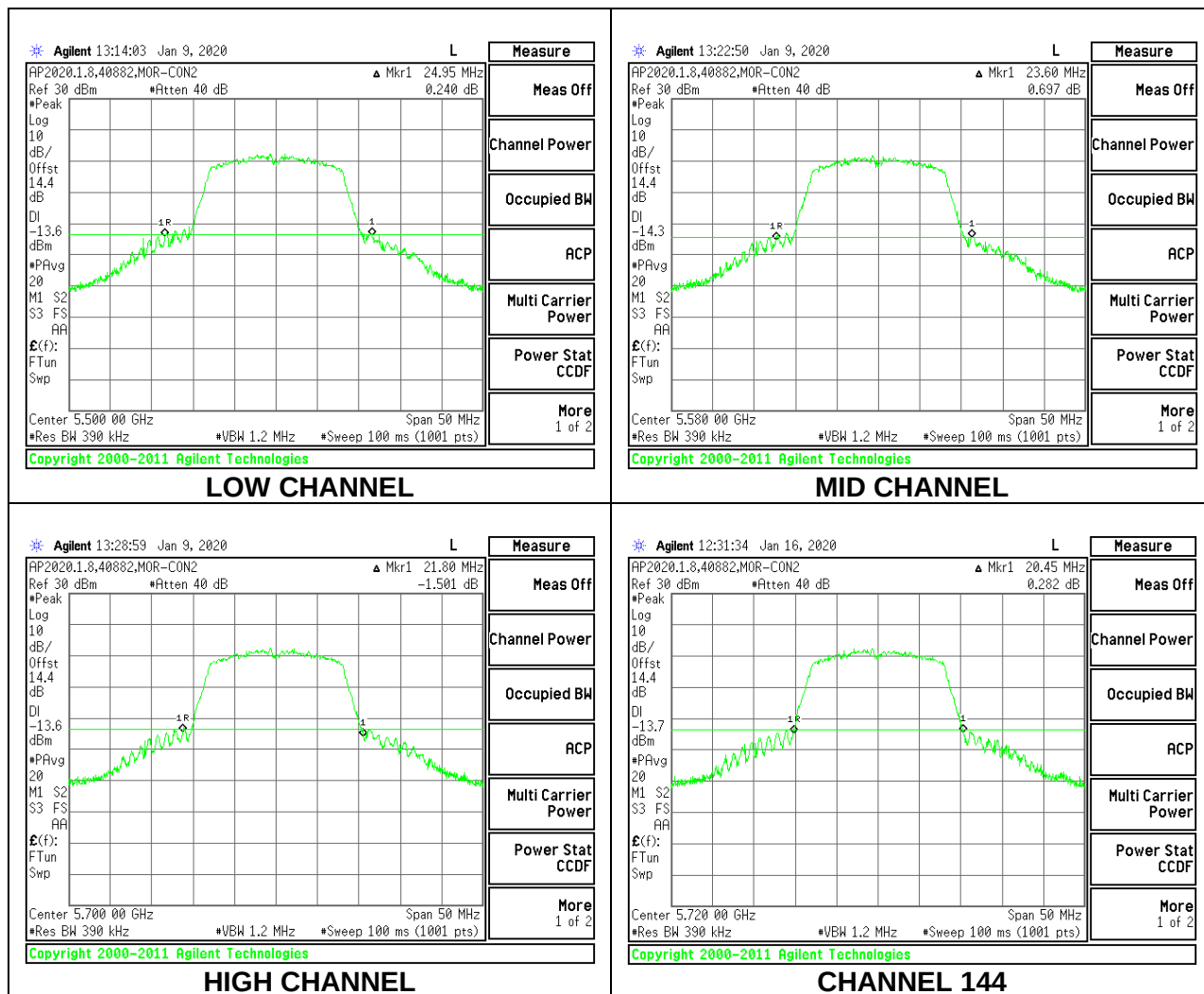
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Mid	5290	82.80



8.2.9. 802.11a MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

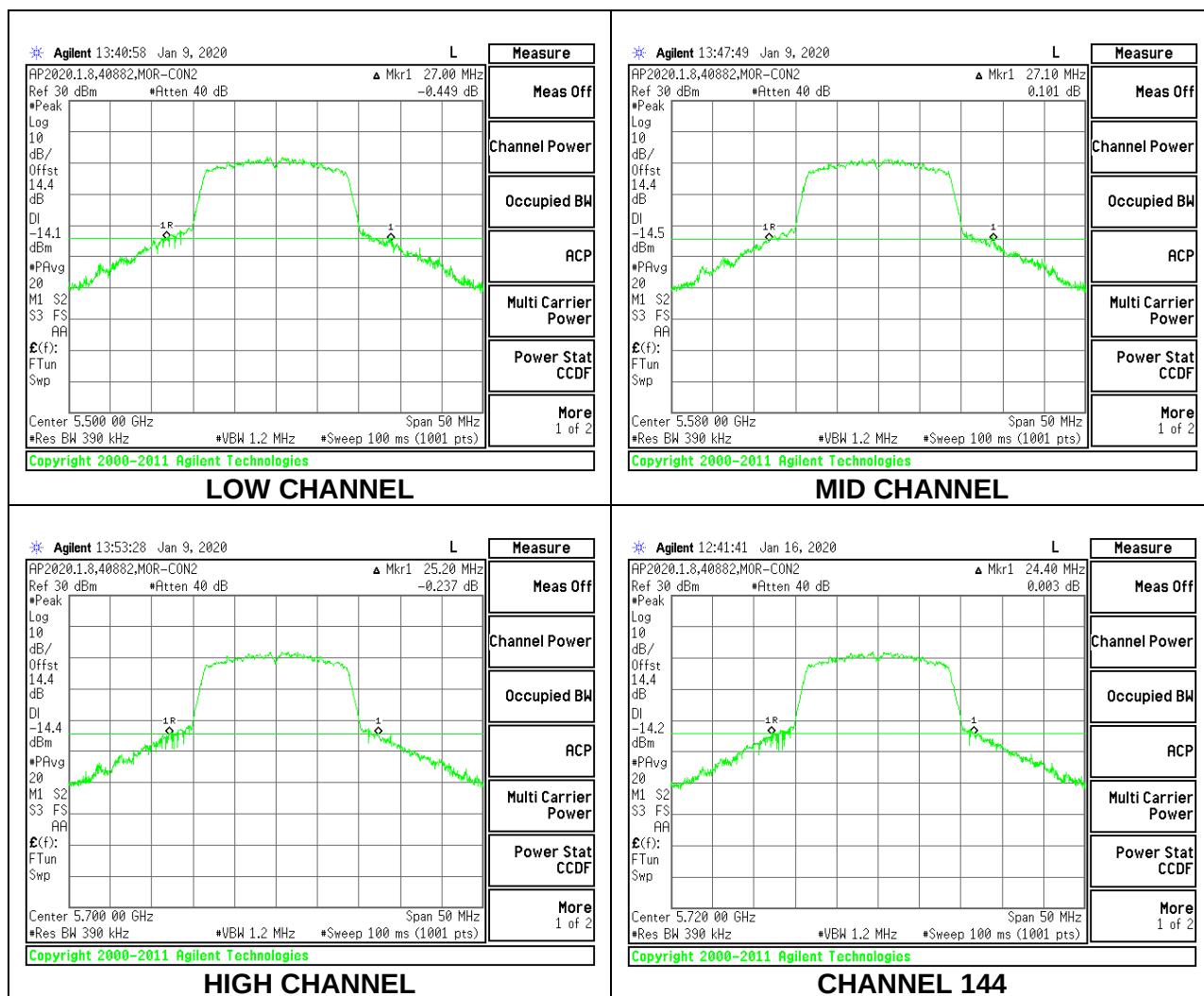
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	24.95
Mid	5580	23.60
High	5700	21.80
144	5720	20.45



8.2.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

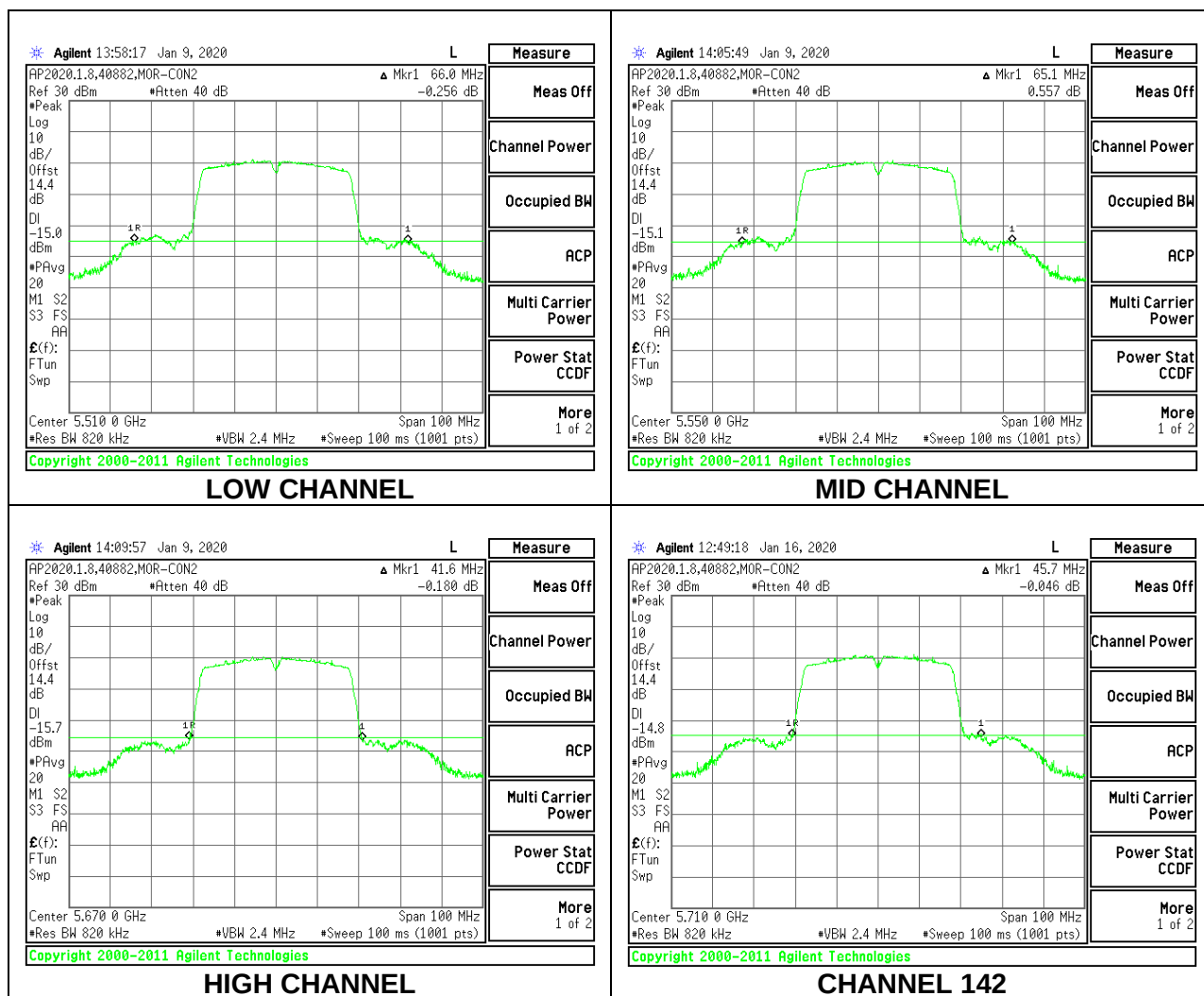
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5500	27.00
Mid	5580	27.10
High	5700	25.20
144	5720	24.40



8.2.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

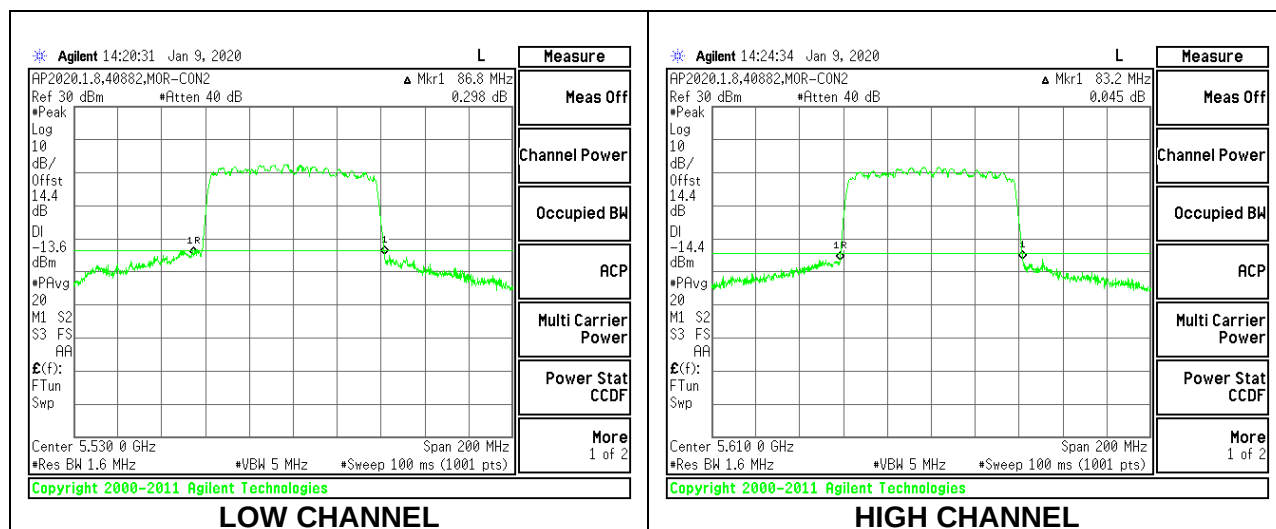
Channel	Frequency	26 dB Bandwidth
	(MHz)	(MHz)
Low	5510	66.00
Mid	5550	65.10
High	5670	41.60
142	5710	45.70



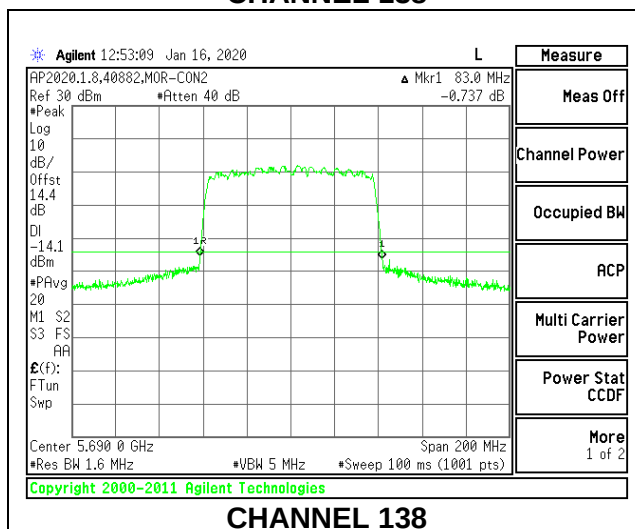
8.2.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

Channel	Frequency (MHz)	26 dB Bandwidth (MHz)
Low	5530	86.80
High	5610	83.20
138	5690	83.00



CHANNEL 138



8.3. 99% BANDWIDTH

LIMITS

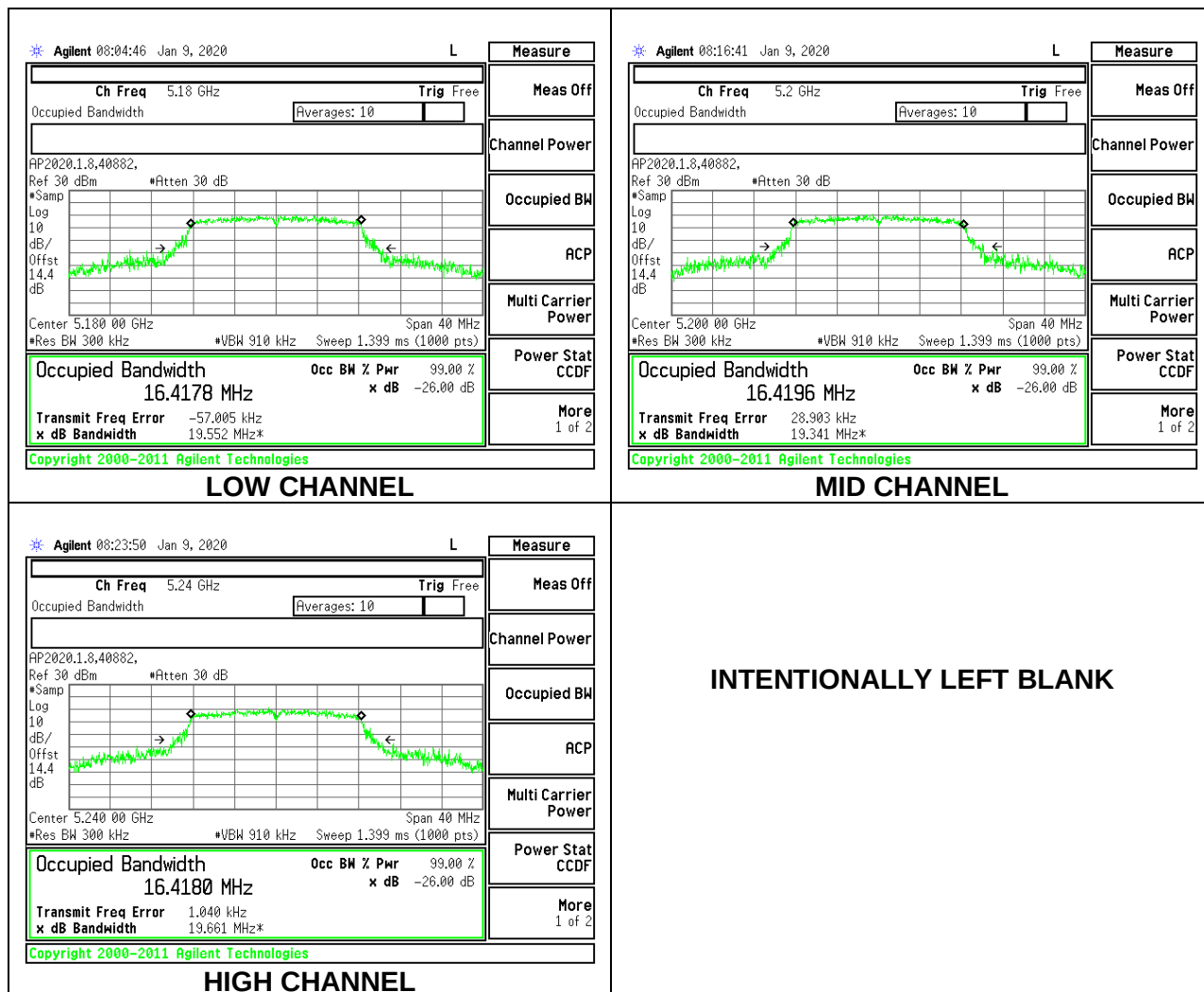
None; for reporting purposes only.

RESULTS

8.3.1. 802.11a MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

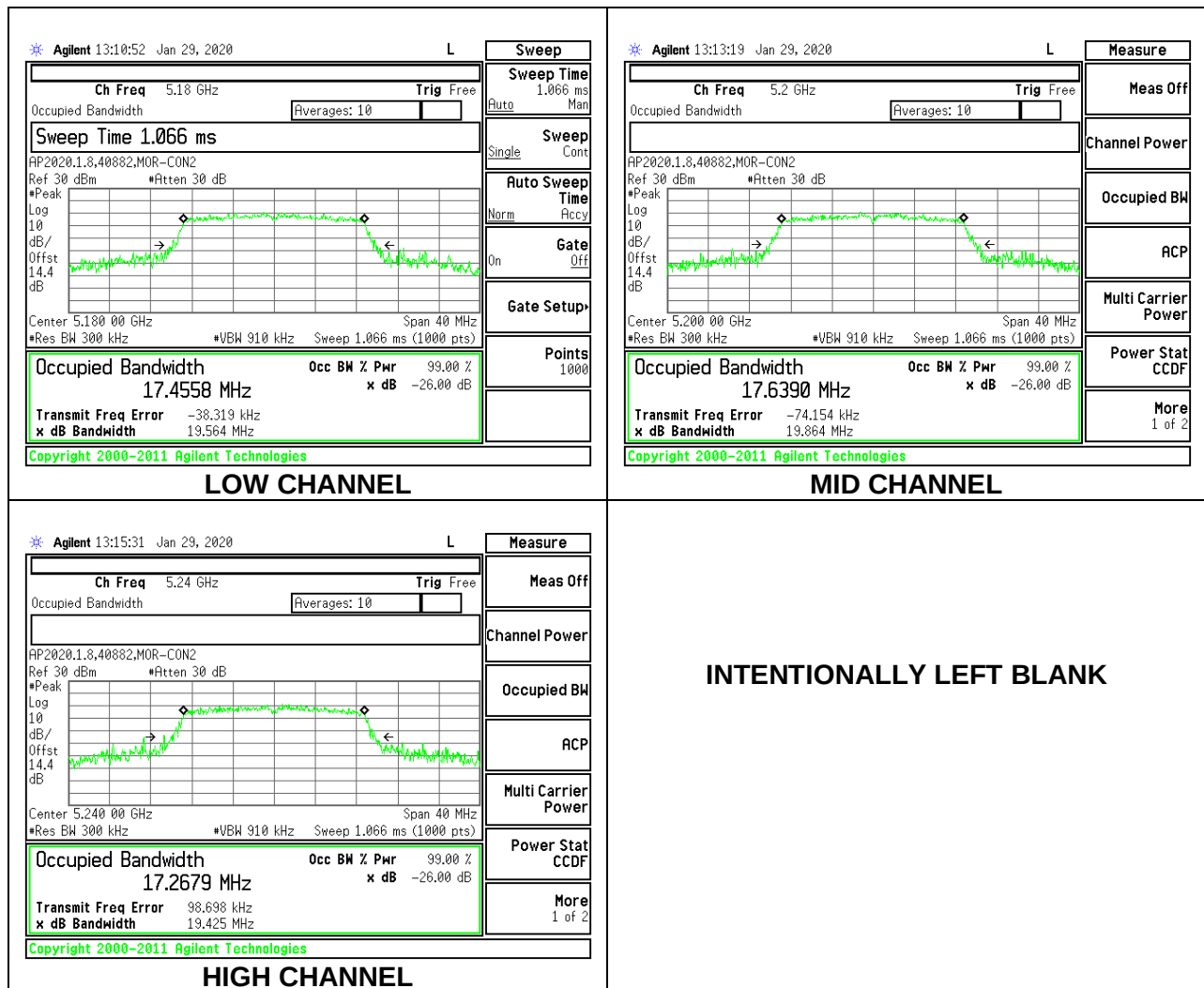
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5180	16.4178
Mid	5200	16.4196
High	5240	16.4180



8.3.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

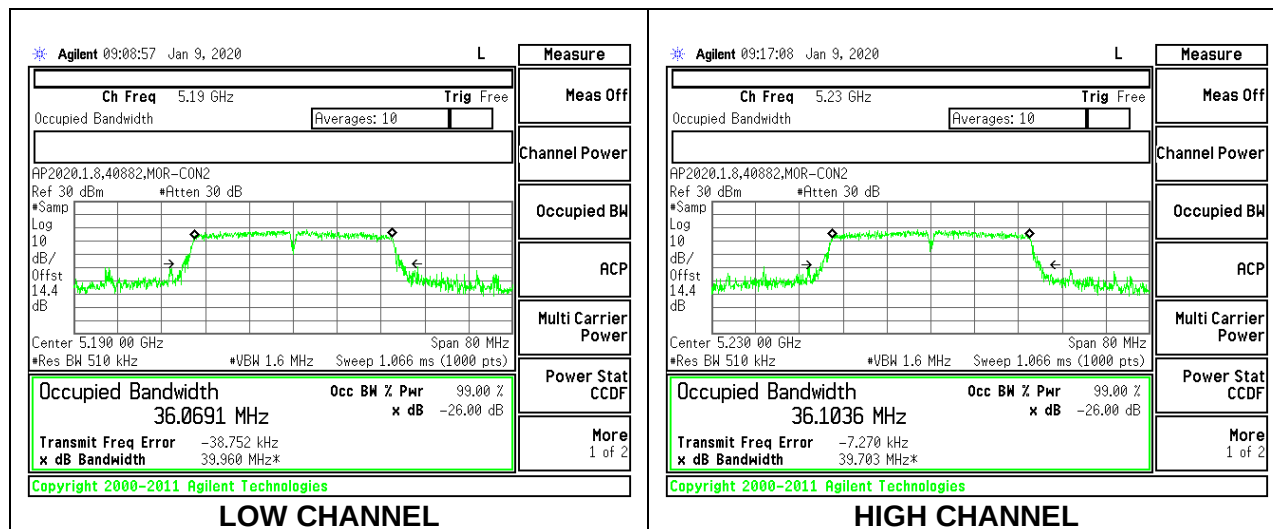
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5180	17.4558
Mid	5200	17.6390
High	5240	17.2679



8.3.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

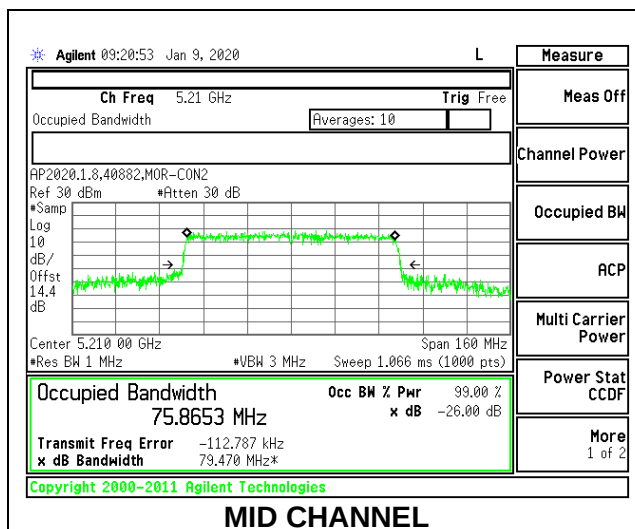
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5190	36.0691
High	5230	36.1036



8.3.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE

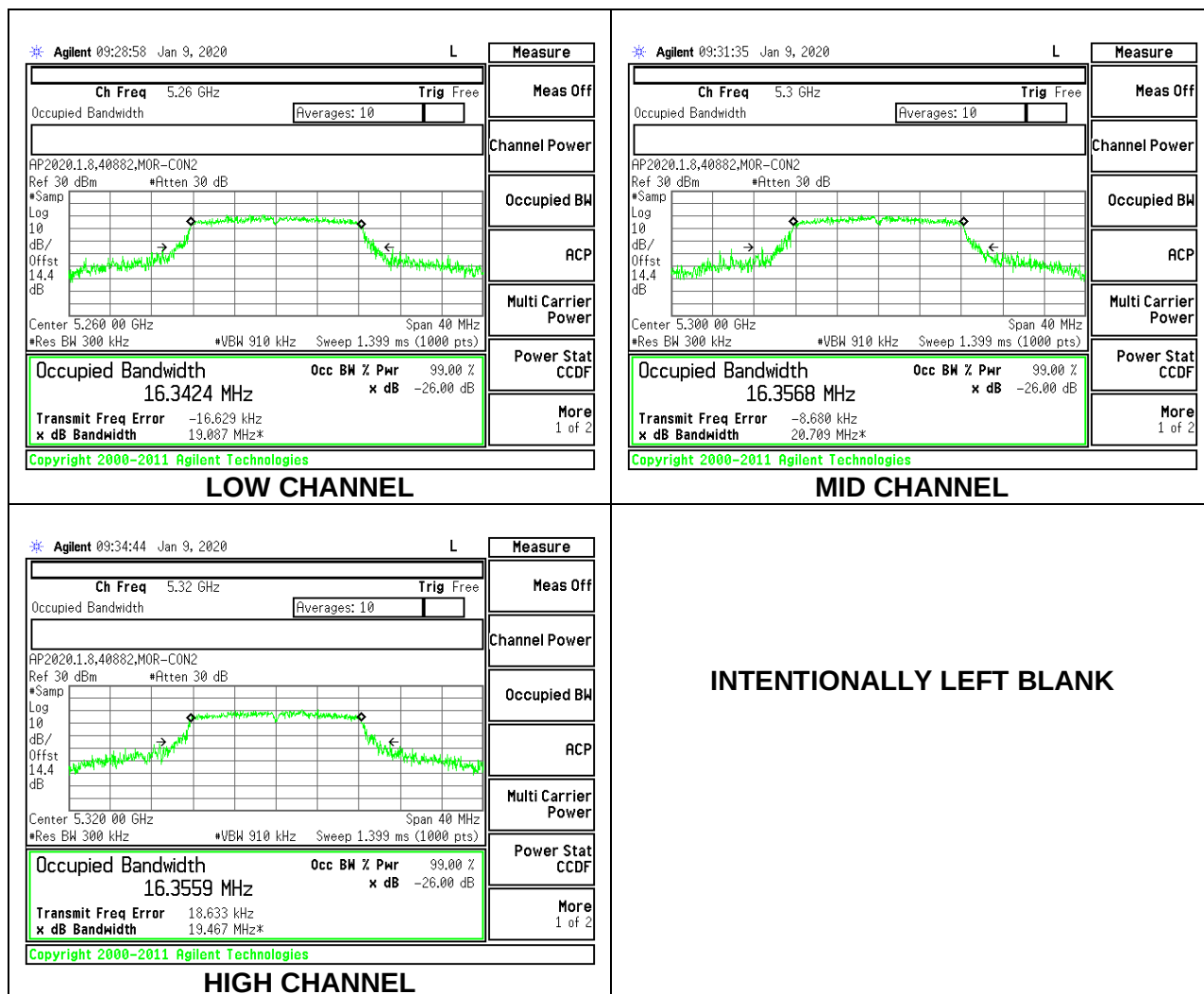
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5210	75.8653



8.3.5. 802.11a MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

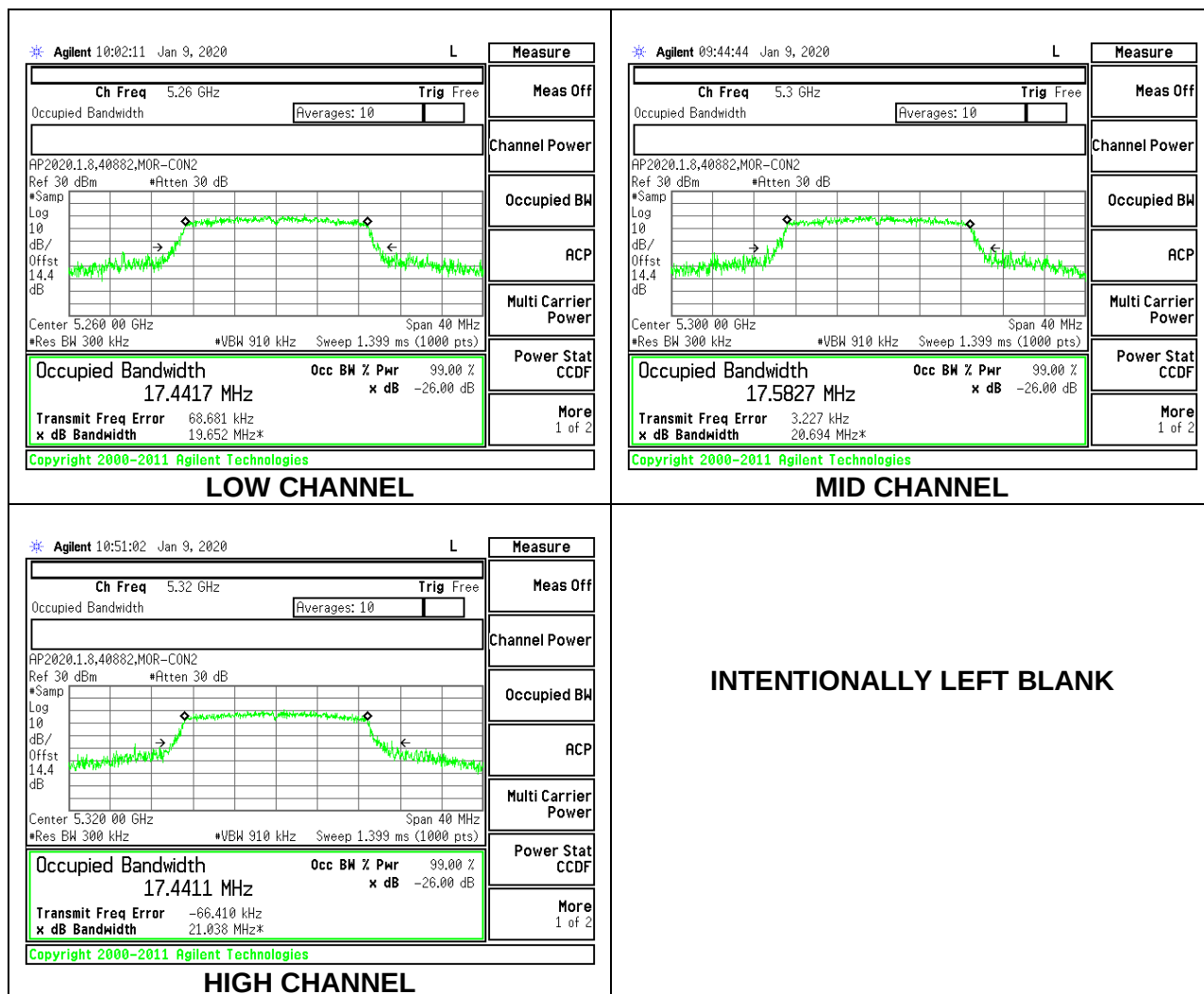
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5260	16.3424
Mid	5300	16.3568
High	5320	16.3559



8.3.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

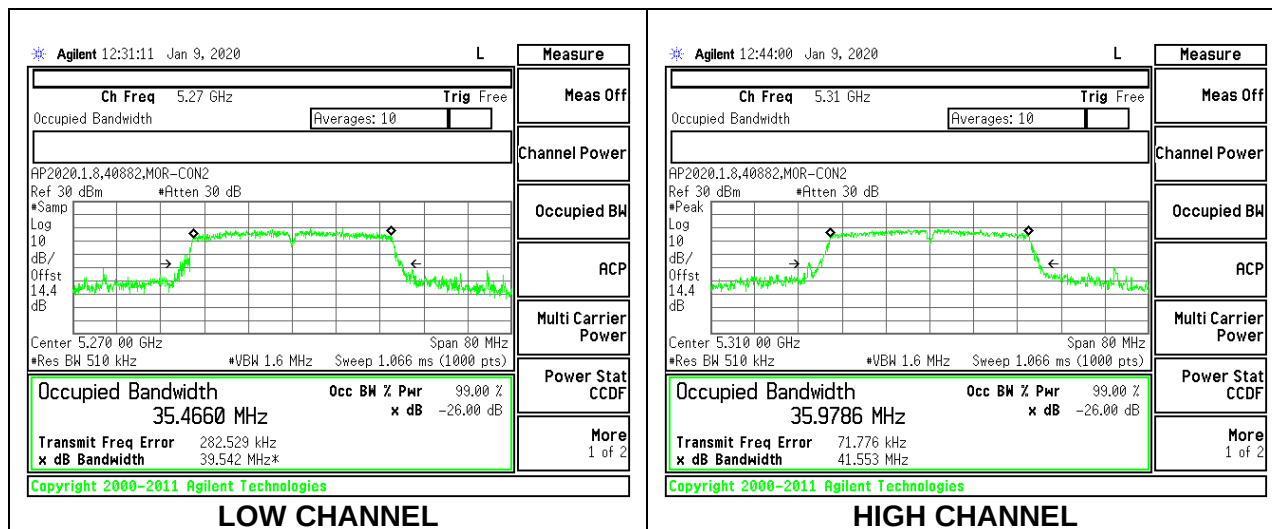
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5260	17.4417
Mid	5300	17.5827
High	5320	17.4411



8.3.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

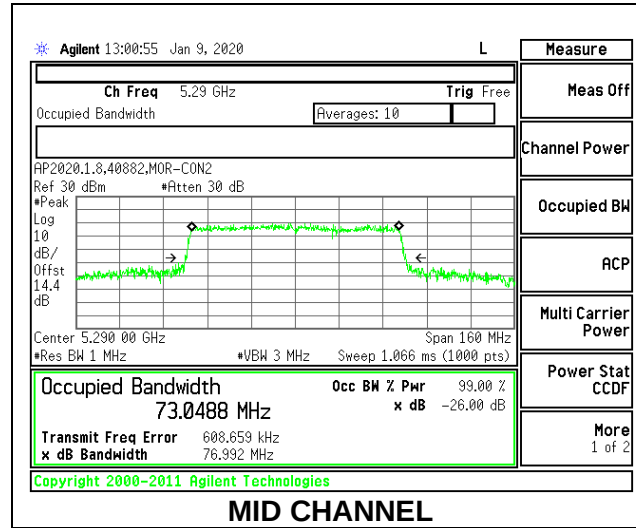
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5270	35.4660
High	5310	35.9786



8.3.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE

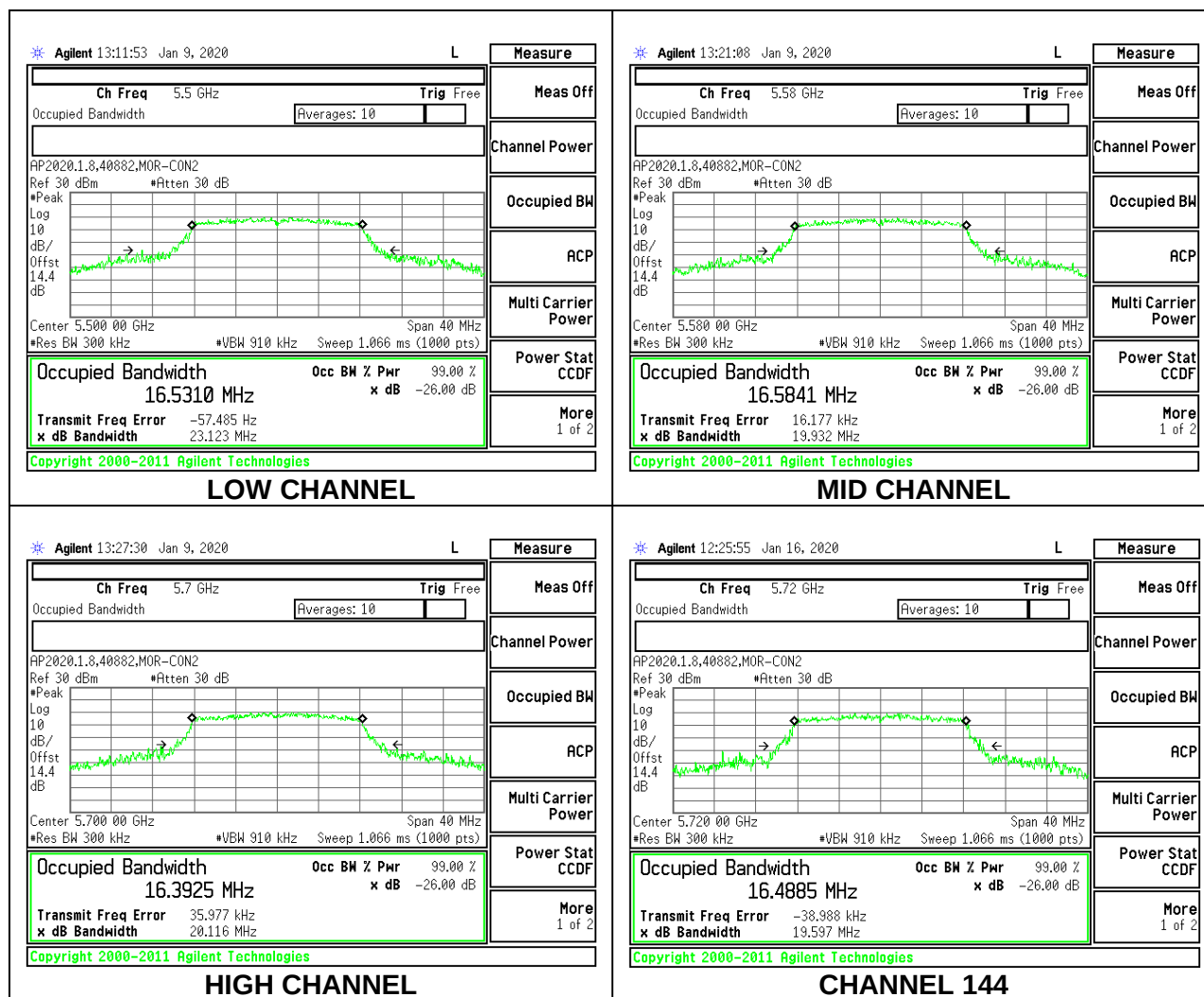
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5290	73.0488



8.3.9. 802.11a MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

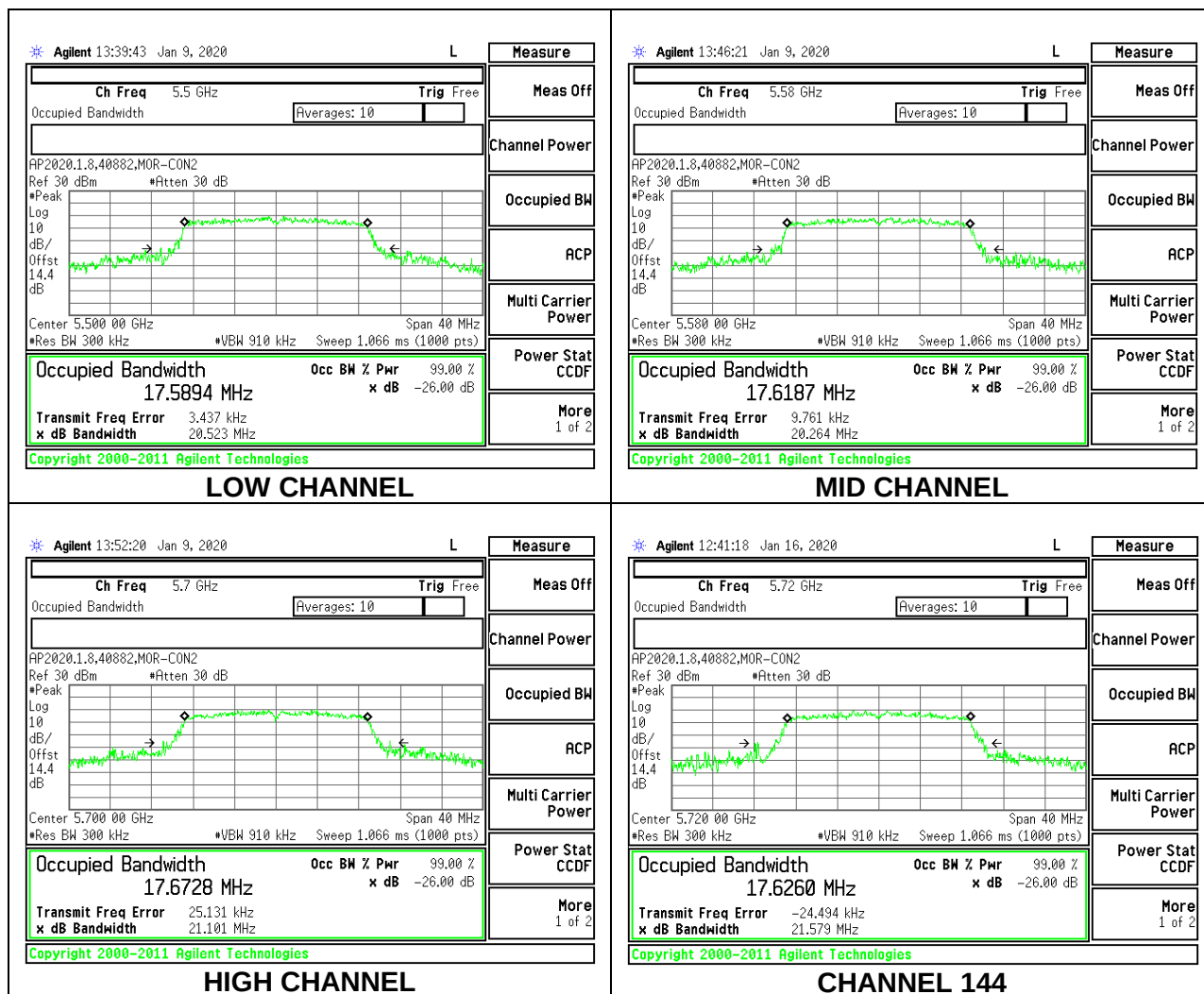
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	16.5310
Mid	5580	16.5841
High	5700	16.3925
144	5720	16.4885



8.3.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

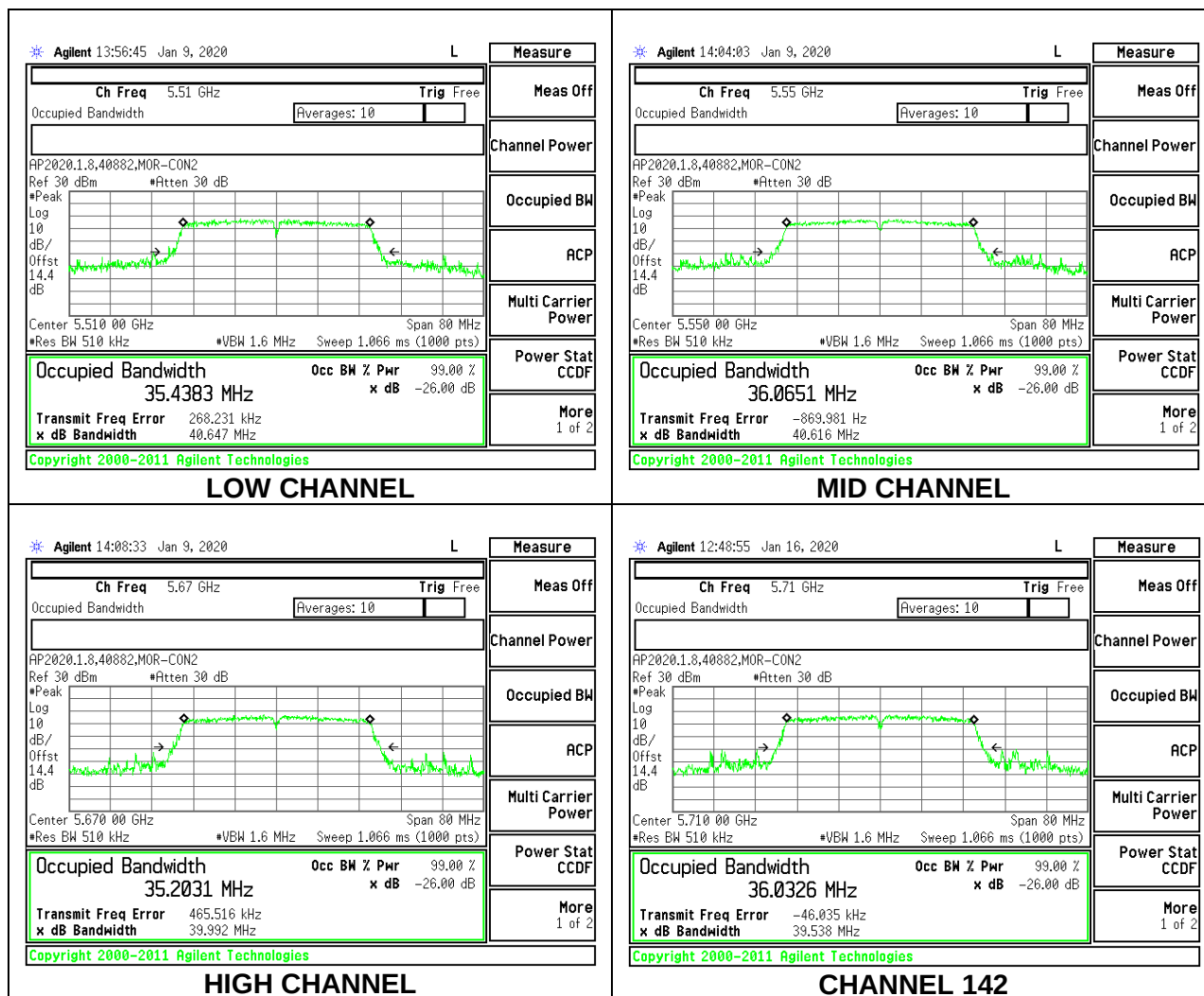
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5500	17.5894
Mid	5580	17.6187
High	5700	17.6728
144	5720	17.6260



8.3.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

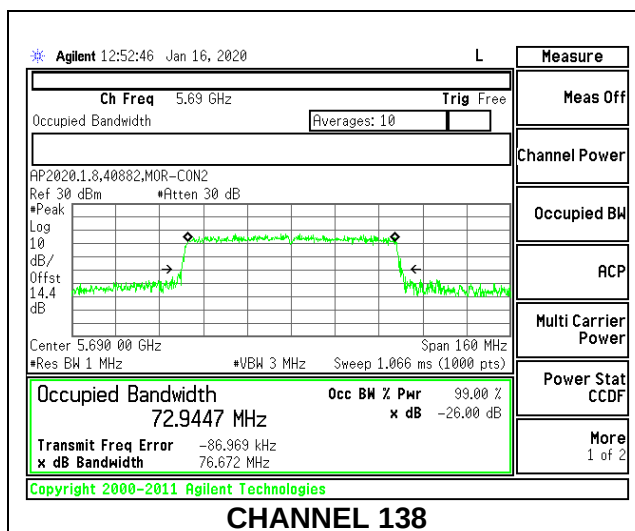
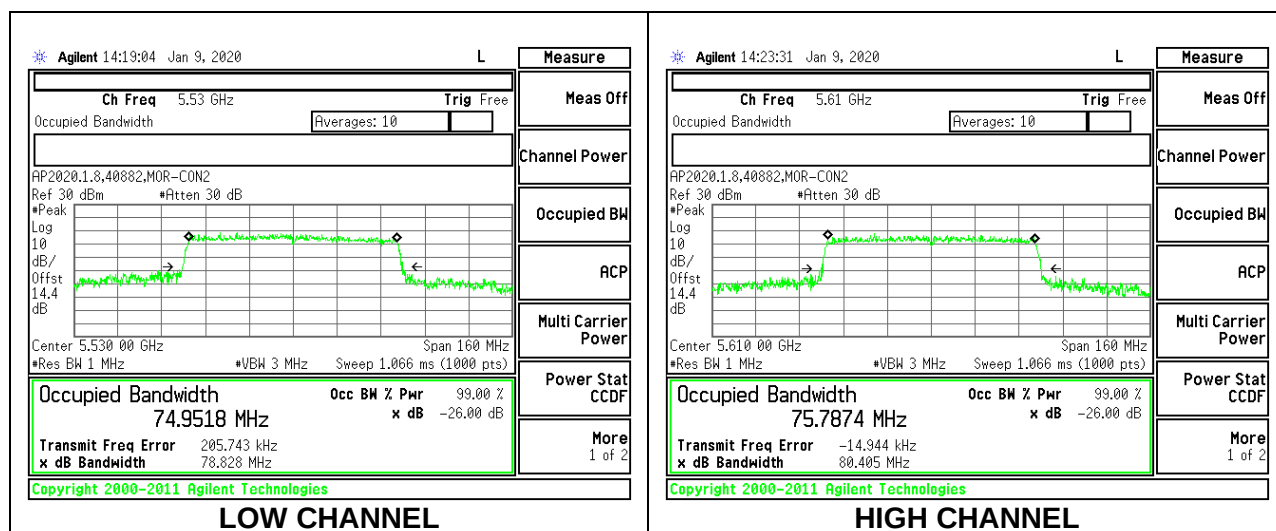
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5510	35.4383
Mid	5550	36.0651
High	5670	35.2031
142	5710	36.0326



8.3.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE

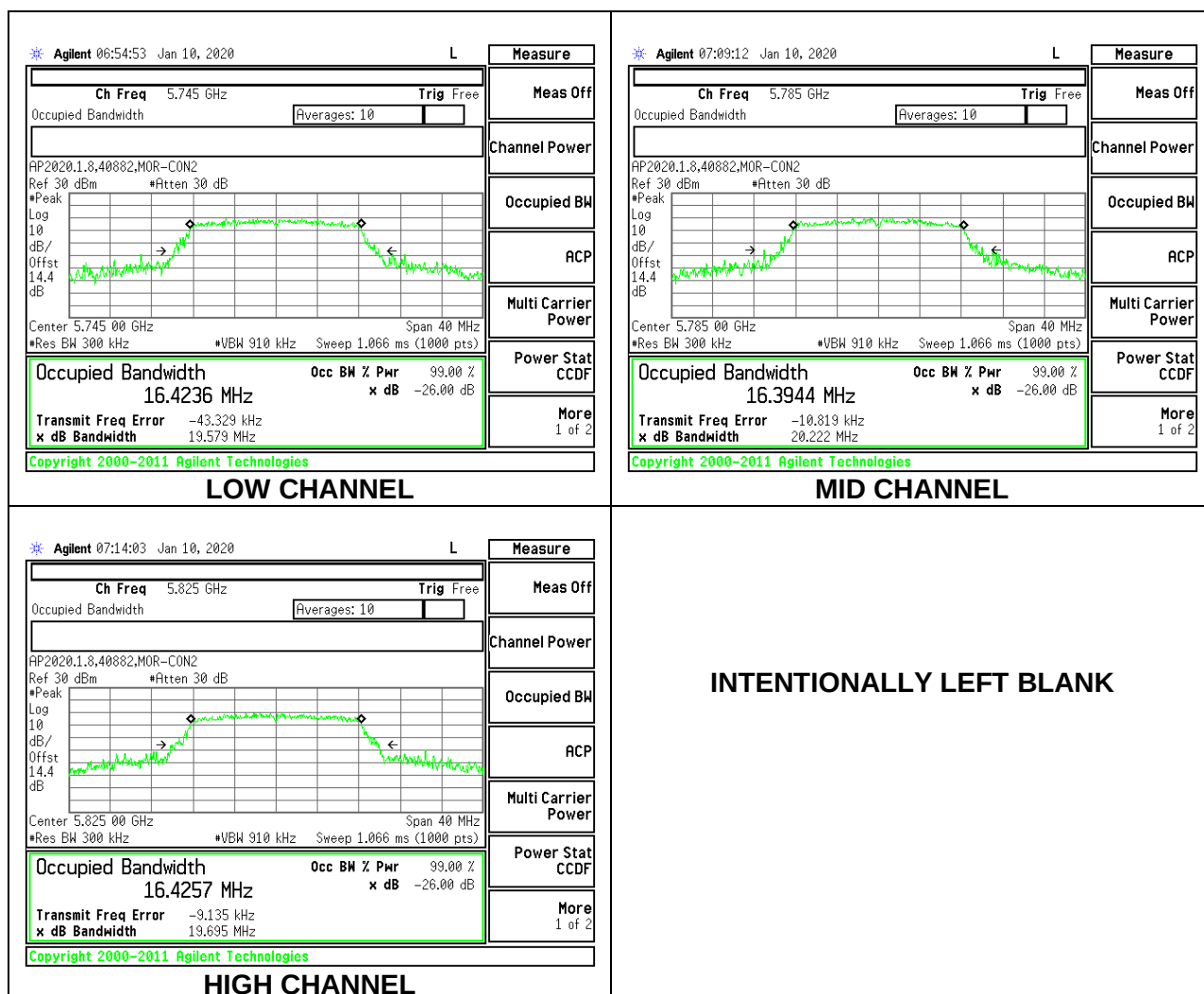
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5530	74.9518
High	5610	75.7874
138	5690	72.9447



8.3.13. 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

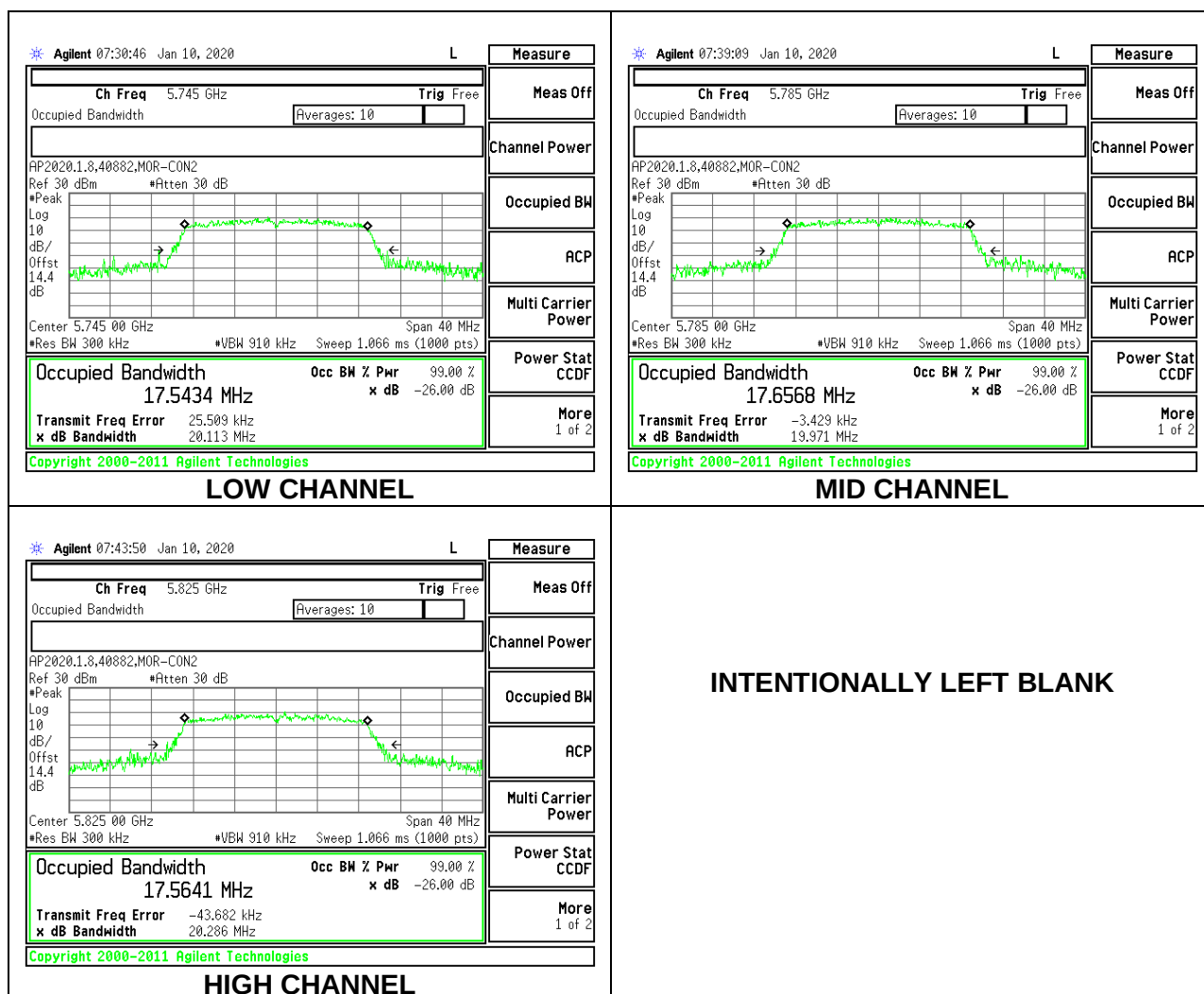
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	16.4236
Mid	5785	16.3944
High	5825	16.4257



8.3.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

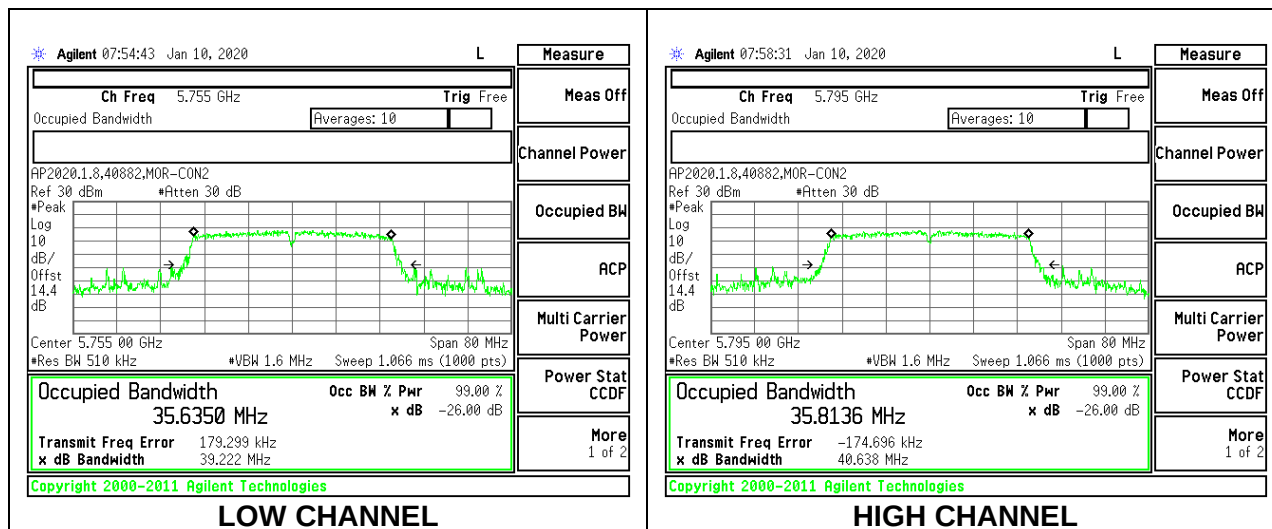
Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	5745	17.5434
Mid	5785	17.6568
High	5825	17.5641



8.3.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

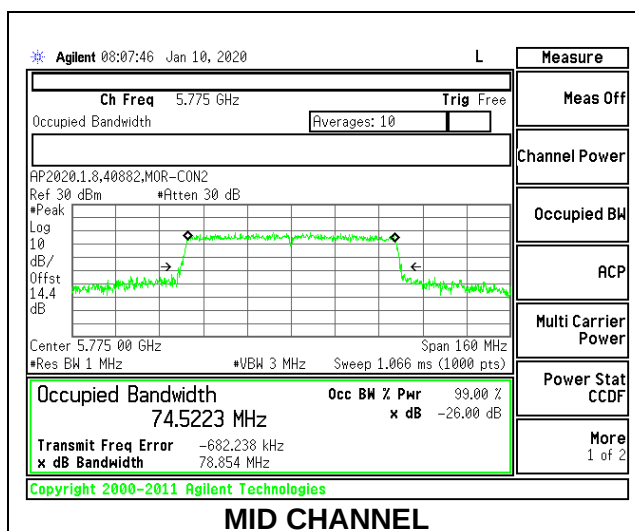
Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Low	5755	35.6350
High	5795	35.8136



8.3.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

Channel	Frequency	99% Bandwidth
	(MHz)	(MHz)
Mid	5775	74.5223



8.4. 6 dB BANDWIDTH

LIMITS

FCC §15.407 (e)

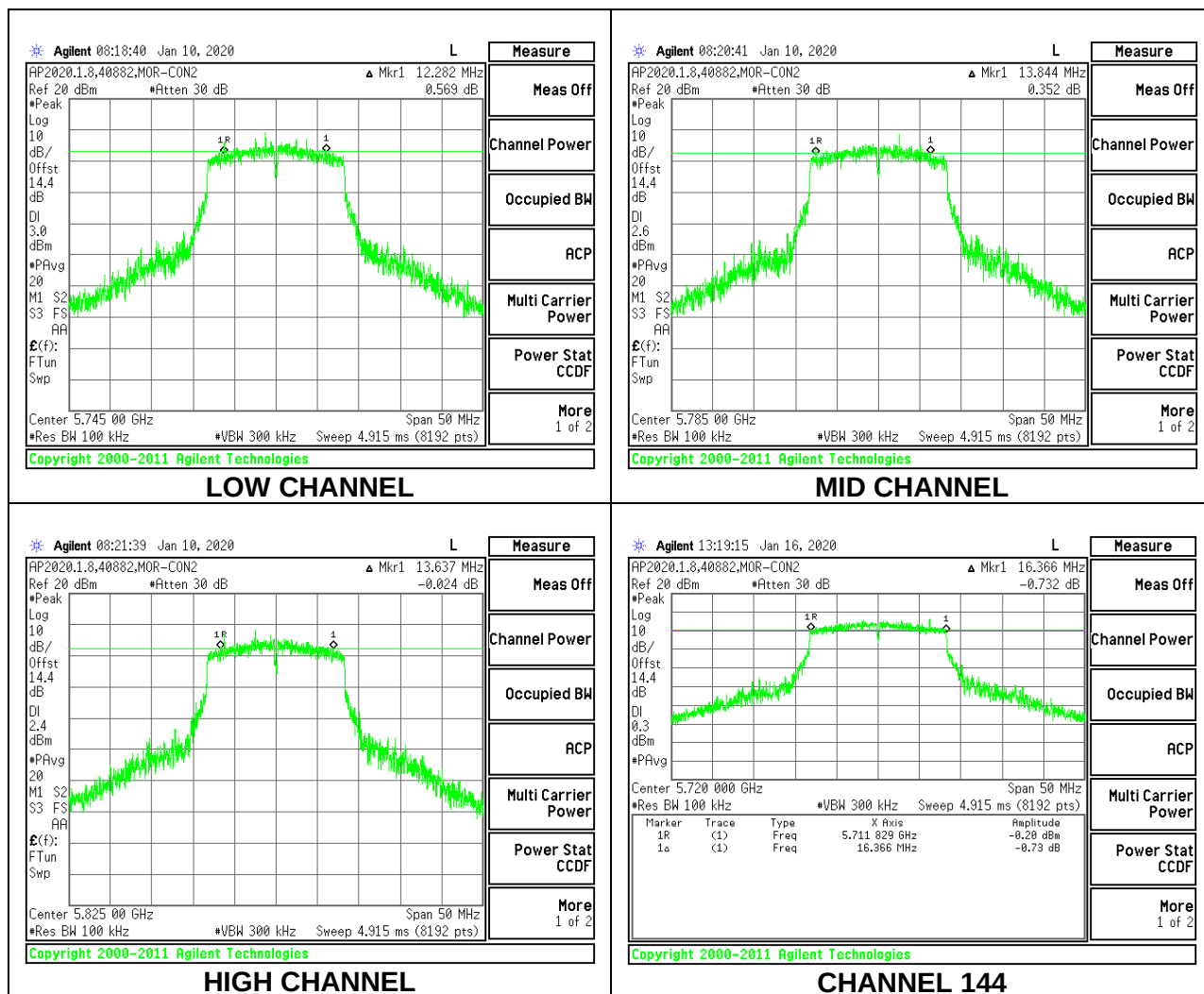
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

8.4.1. 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

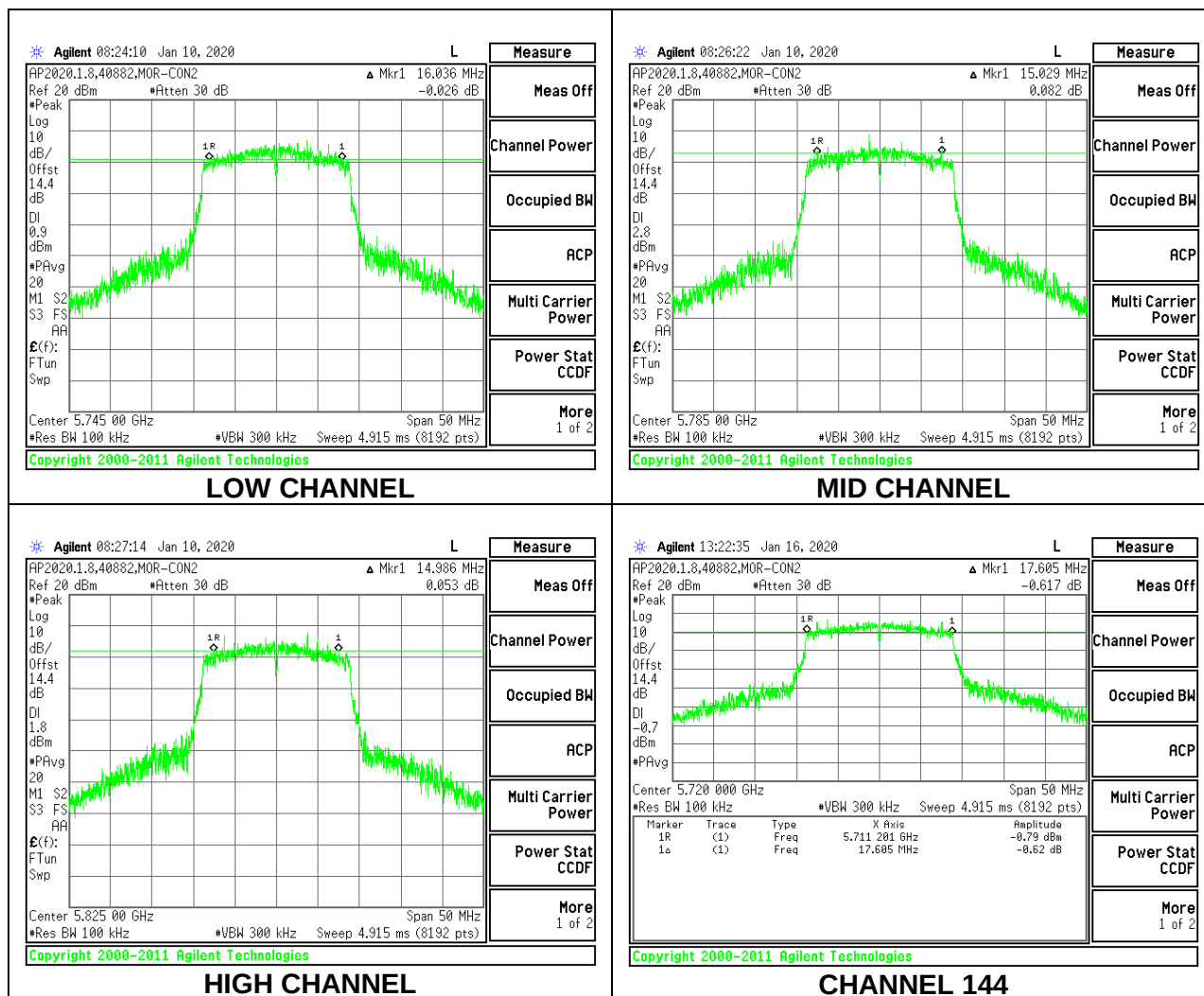
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	12.282	0.5
Mid	5785	13.844	0.5
High	5825	13.637	0.5
144	5720	16.366	0.5



8.4.2. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

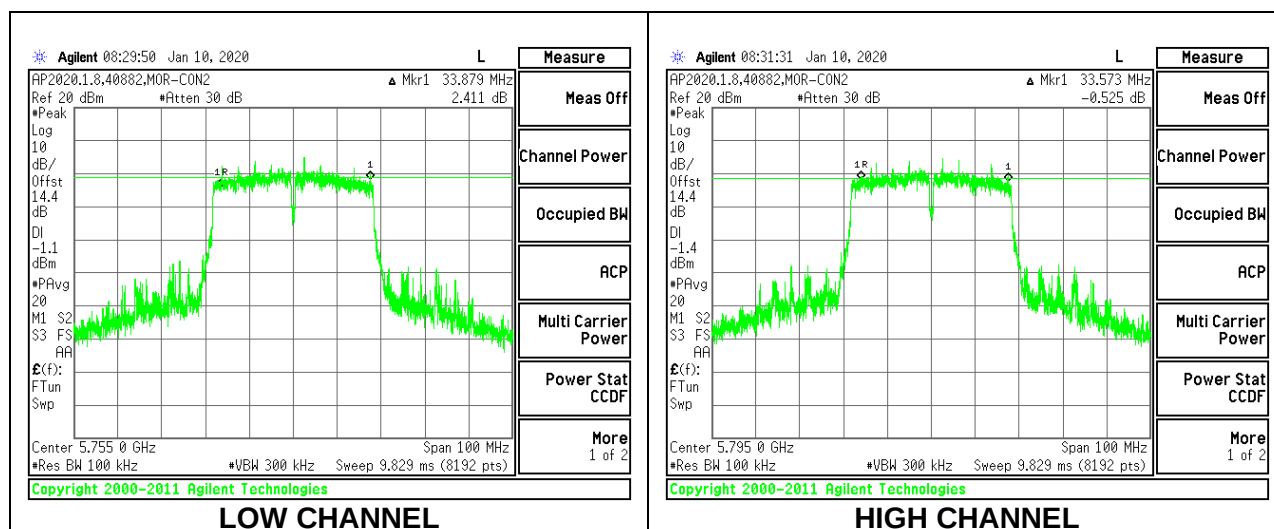
Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5745	16.036	0.5
Mid	5785	15.029	0.5
High	5825	14.986	0.5
144	5720	17.605	0.5



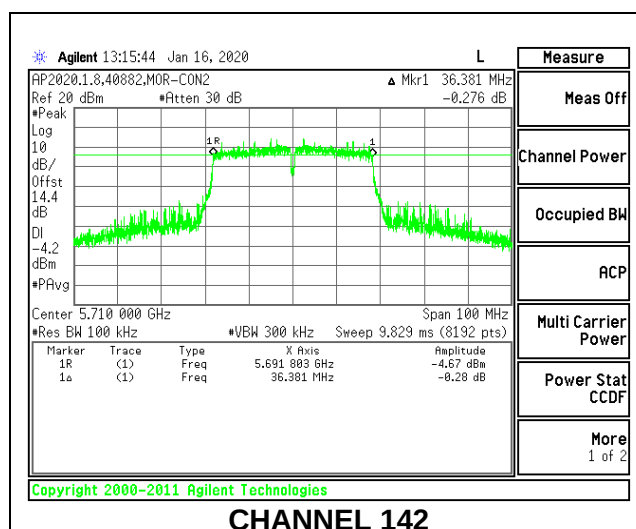
8.4.3. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

Channel	Frequency	6 dB Bandwidth	Minimum Limit
	(MHz)	(MHz)	(MHz)
Low	5755	33.879	0.5
High	5795	33.573	0.5
High	5710	36.381	0.5



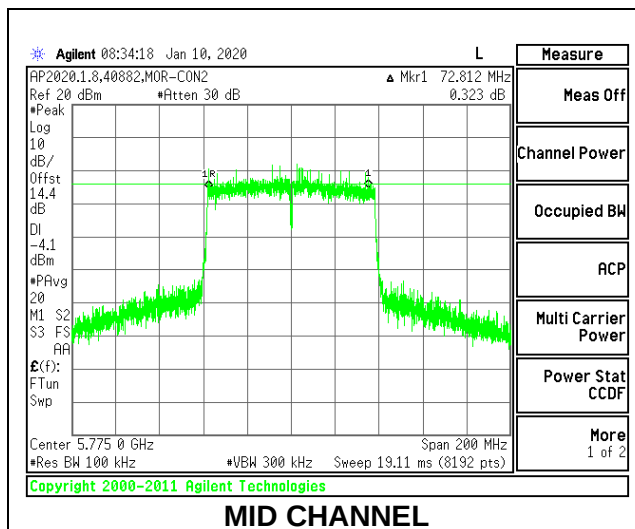
CHANNEL 142



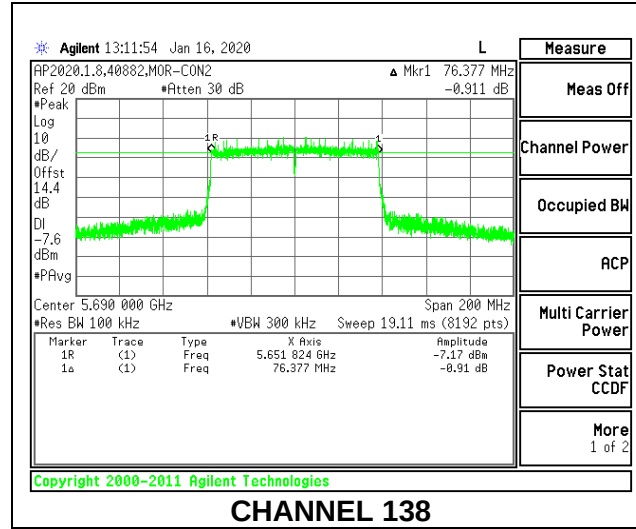
8.4.4. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Mid	5775	72.812	0.5
138	5690	76.377	0.5



CHANNEL 138



8.5. OUTPUT POWER AND PSD

LIMITS

FCC §15.407

Band 5.15–5.25 GHz

For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Bands 5.25-5.35 GHz and 5.47-5.725 GHz

The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Band 5.725-5.85 GHz

The maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information.

TEST PROCEDURE

The measurement method used for output power is KDB 789033 D02 v02r01, Section E.3.b (Method PM-G) was used.

The measurement method used for power spectral density is KDB 789033 D02 v02r01, Section F

DIRECTIONAL ANTENNA GAIN

For 1 TX:

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

8.5.1. 802.11a MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Directional Gain (dBi)
Low	5180	5.770
Mid	5200	5.770
High	5240	5.770

Limits

Channel	Frequency (MHz)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	24.00	11.00
Mid	5200	24.00	11.00
High	5240	24.00	11.00

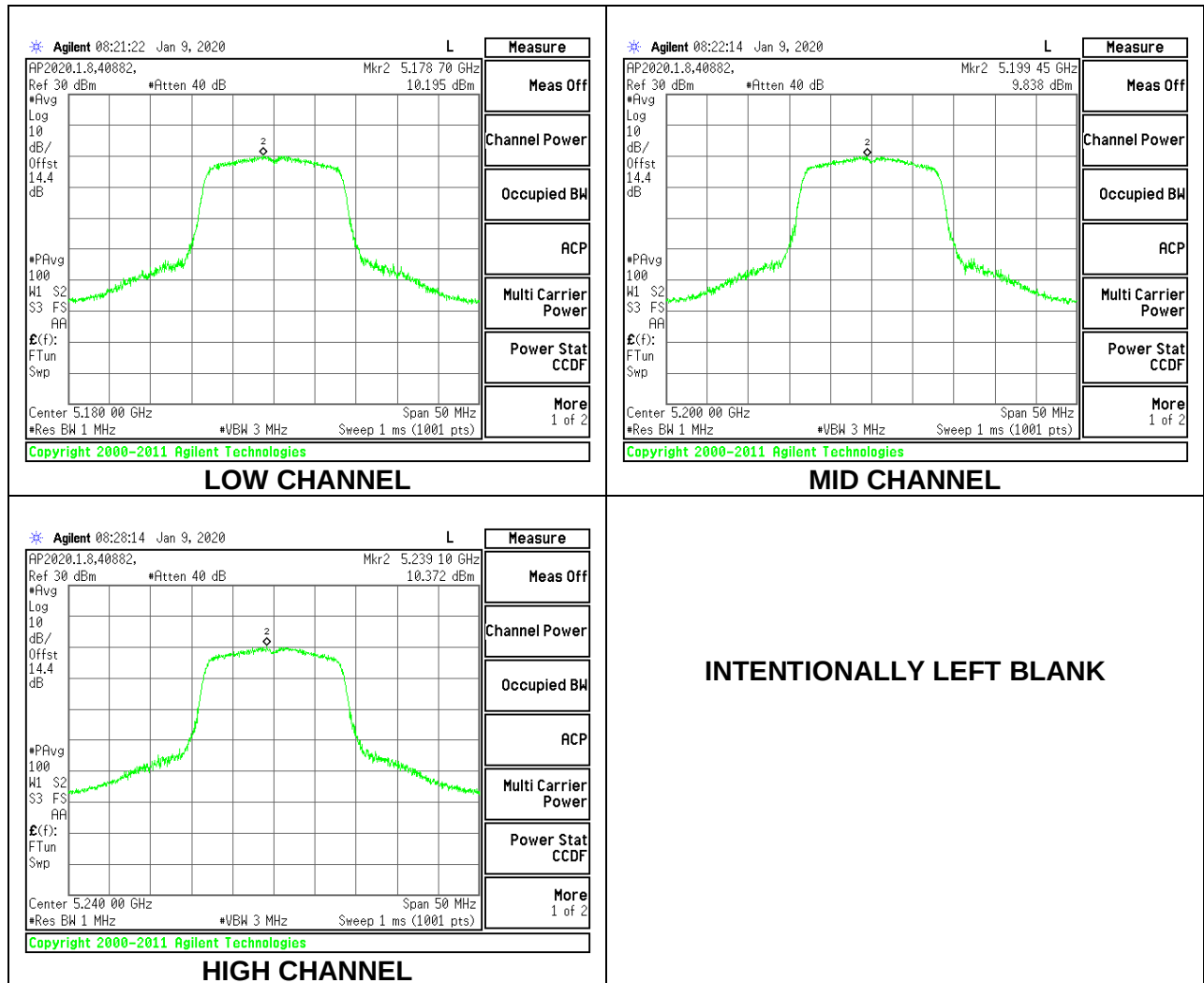
Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	19.45	19.45	24.00	-4.55
Mid	5200	19.18	19.18	24.00	-4.82
High	5240	19.35	19.35	24.00	-4.65

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	10.195	10.52	11.00	-0.48
Mid	5200	9.838	10.16	11.00	-0.84
High	5240	10.372	10.69	11.00	-0.31



8.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Directional Gain (dBi)
Low	5180	5.770
Mid	5200	5.770
High	5240	5.770

Limits

Channel	Frequency (MHz)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5180	24.00	11.00
Mid	5200	24.00	11.00
High	5240	24.00	11.00

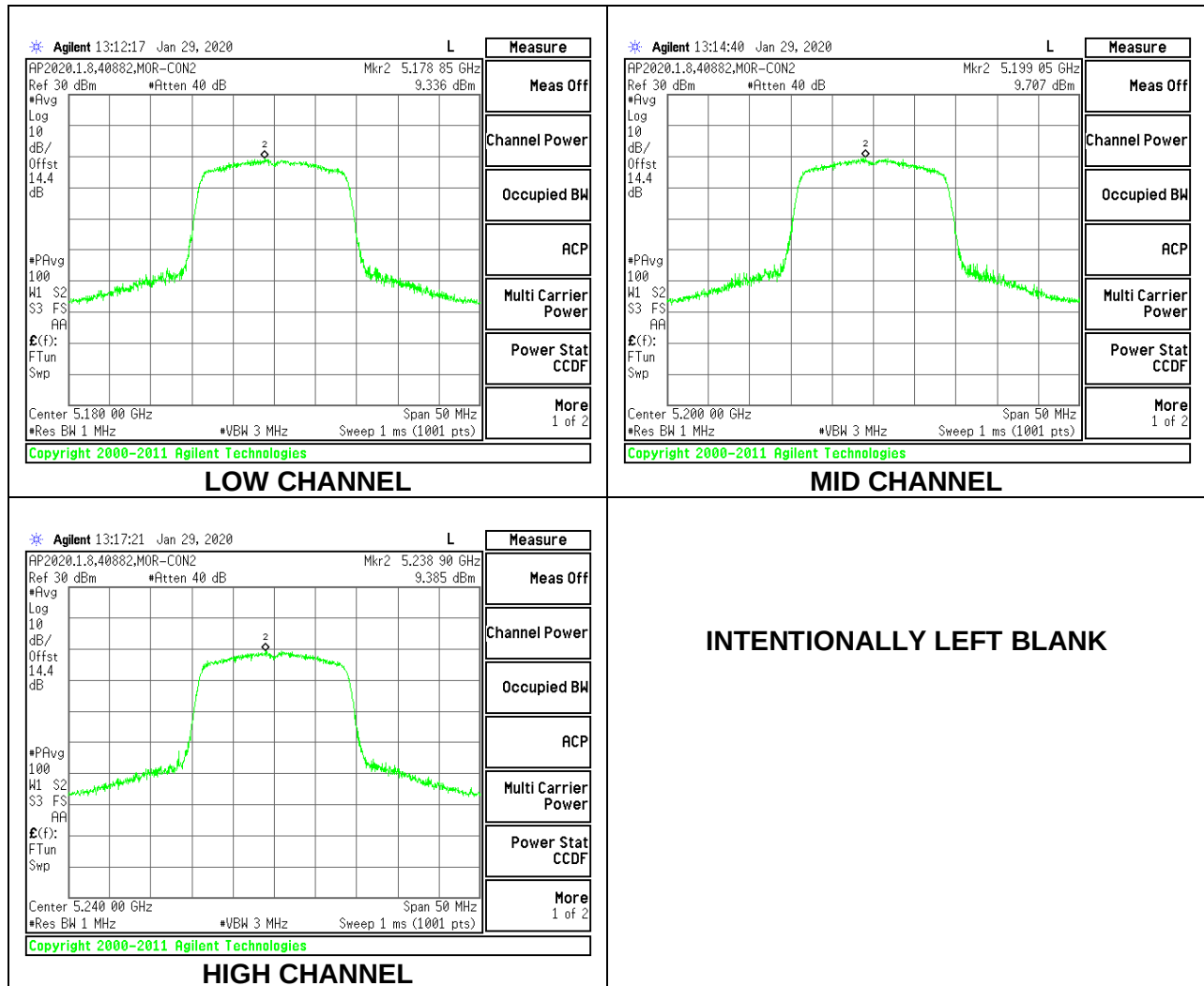
Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	19.29	19.29	24.00	-4.71
Mid	5200	19.39	19.39	24.00	-4.61
High	5240	19.36	19.36	24.00	-4.64

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	9.336	9.68	11.00	-1.32
Mid	5200	9.707	10.05	11.00	-0.95
High	5240	9.385	9.73	11.00	-1.28



8.5.3. 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Directional Gain (dBi)
Low	5190	5.770
Mid	5230	5.770

Limits

Channel	Frequency (MHz)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5190	24.00	11.00
Mid	5230	24.00	11.00

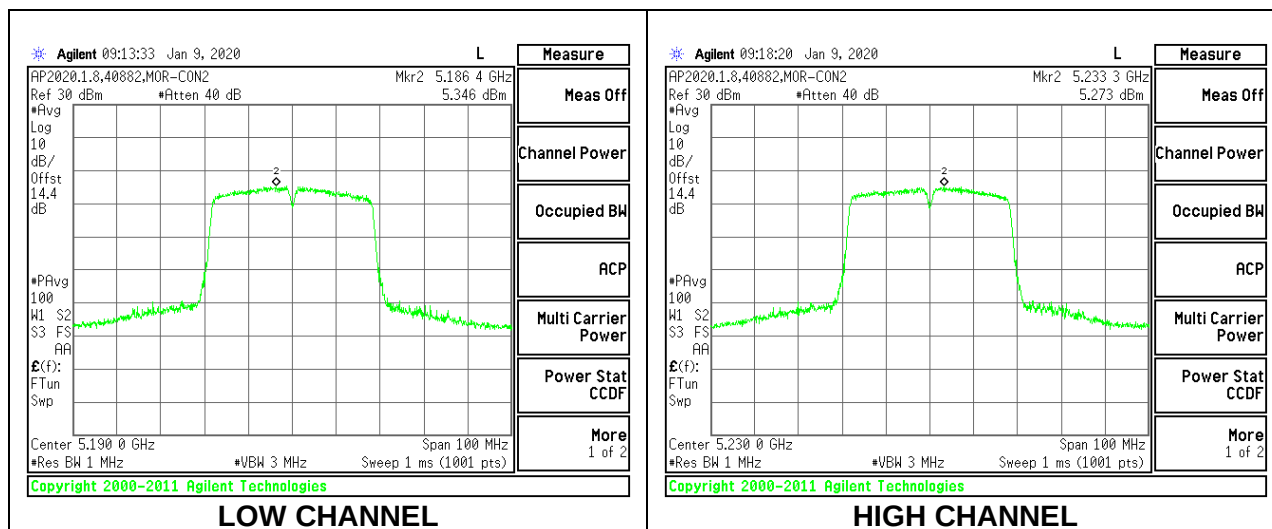
Duty Cycle CF (dB)	0.62	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	18.57	18.57	24.00	-5.43
Mid	5230	18.68	18.68	24.00	-5.32

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5180	5.346	5.97	11.00	-5.03
Mid	5200	5.273	5.89	11.00	-5.11



8.5.4. 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency	Directional Gain
	(MHz)	(dBi)
Mid	5210	5.770

Limits

Channel	Frequency	Power Limit	PSD Limit
	(MHz)	(dBm)	(dBm/1MHz)
Mid	5210	24.00	11.00

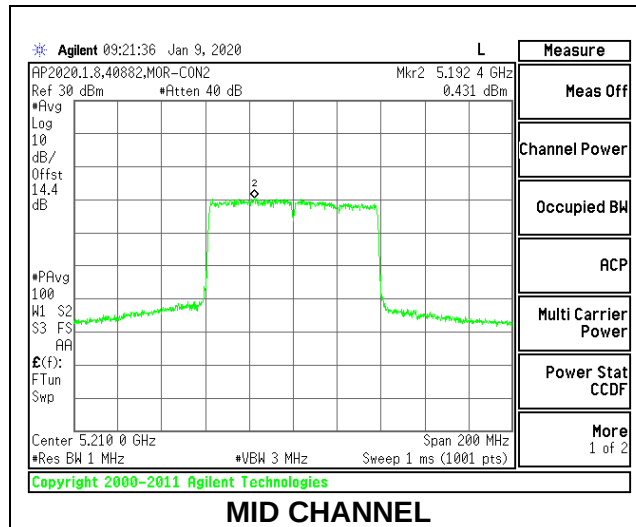
Duty Cycle CF (dB)	1.15	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency	Meas Power	Total Corr'd Power	Power Limit	Power Margin
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)
Mid	5210	16.35	16.35	24.00	-7.65

PSD Results

Channel	Frequency	Meas PSD	Total Corr'd PSD	PSD Limit	PSD Margin
	(MHz)	(dBm/1MHz)	(dBm/1MHz)	(dBm/1MHz)	(dB)
Mid	5180	0.431	1.58	11.00	-9.42



8.5.5. 802.11a MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	22.55	5.77	24.00	11.00
Mid	5300	21.50	5.77	24.00	11.00
High	5320	22.70	5.77	24.00	11.00

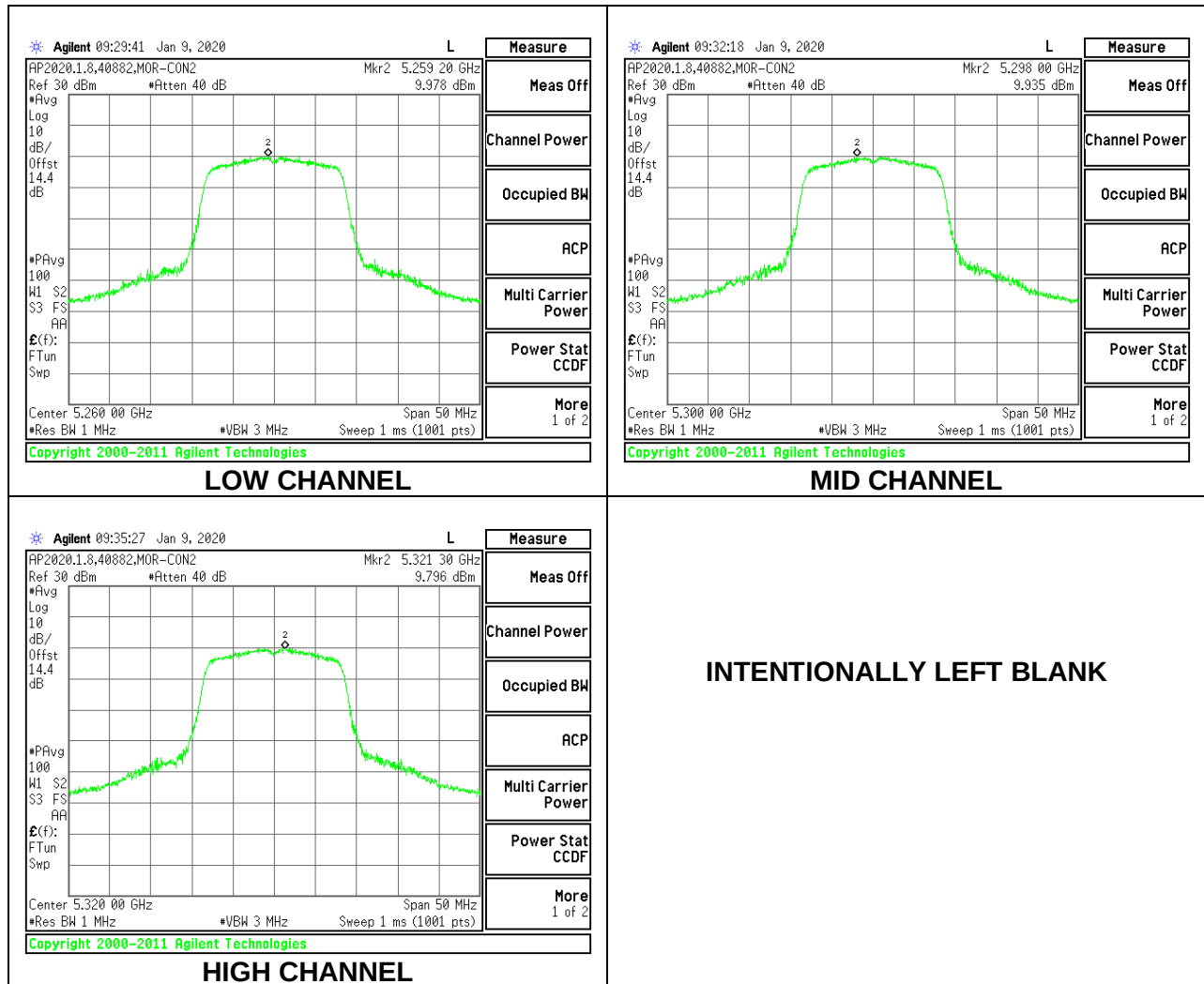
Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	19.57	19.57	24.00	-4.43
Mid	5300	19.62	19.62	24.00	-4.38
High	5320	19.78	19.78	24.00	-4.22

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	9.978	10.30	11.00	-0.70
Mid	5300	9.935	10.26	11.00	-0.74
High	5320	9.796	10.12	11.00	-0.88



8.5.6. 802.11n HT20 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	24.55	5.77	24.00	11.00
Mid	5300	25.25	5.77	24.00	11.00
High	5320	24.55	5.77	24.00	11.00

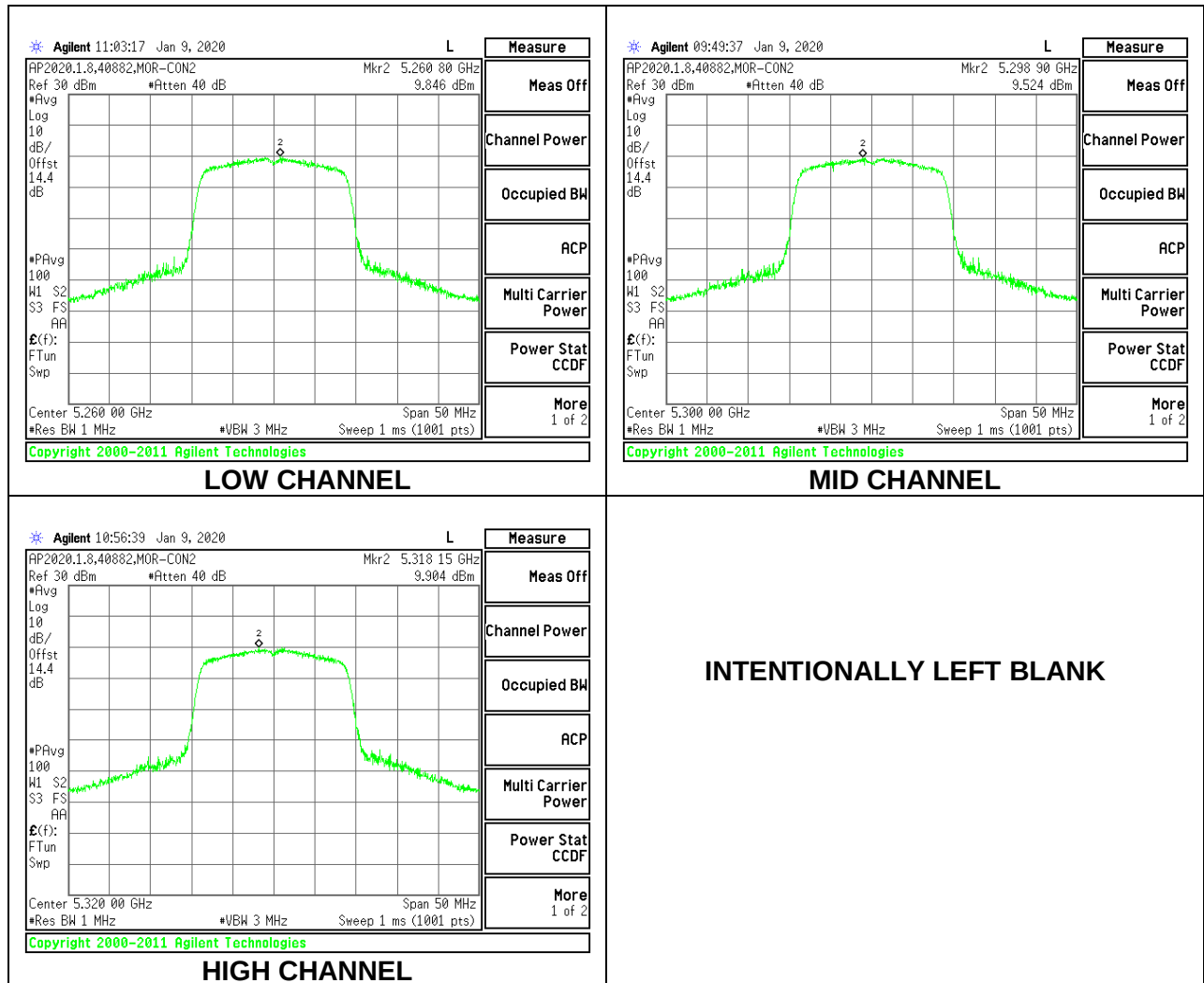
Duty Cycle CF (dB)	0.34	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	19.40	19.40	24.00	-4.60
Mid	5300	19.49	19.49	24.00	-4.51
High	5320	19.28	19.28	24.00	-4.72

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	9.846	10.19	11.00	-0.81
Mid	5300	9.524	9.86	11.00	-1.14
High	5320	9.904	10.24	11.00	-0.76



8.5.7. 802.11n HT40 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5270	43.90	5.77	24.00	11.00
High	5310	45.80	5.77	24.00	11.00

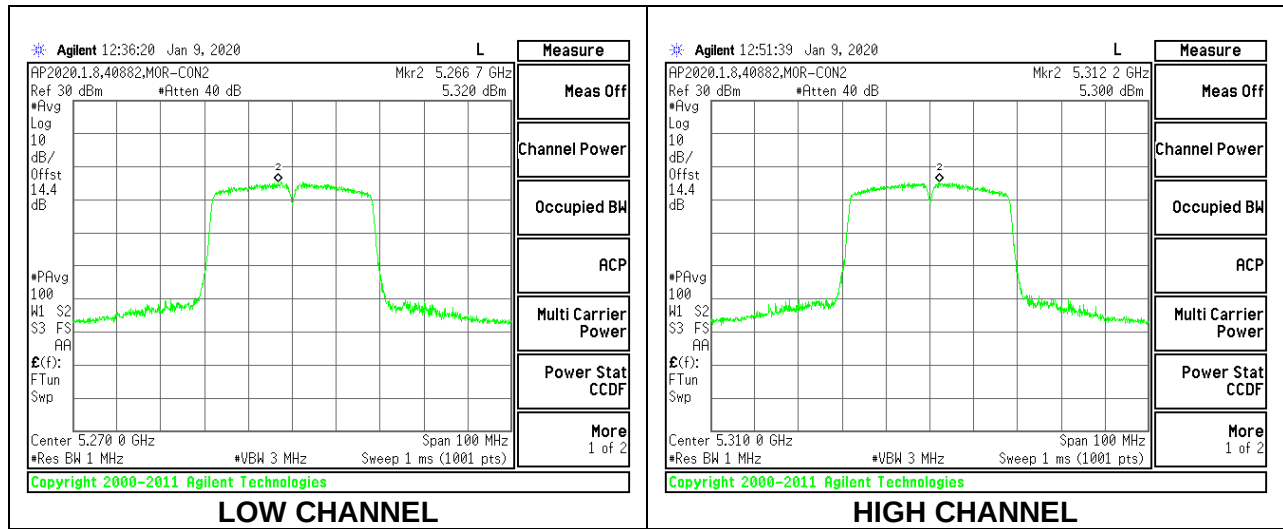
Duty Cycle CF (dB)	0.62	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	18.54	18.54	24.00	-5.46
High	5310	18.73	18.73	24.00	-5.27

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	5.320	5.94	11.00	-5.06
High	5310	5.300	5.92	11.00	-5.08



8.5.8. 802.11ac VHT80 MODE IN THE 5.3 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Mid	5290	82.80	5.77	24.00	11.00

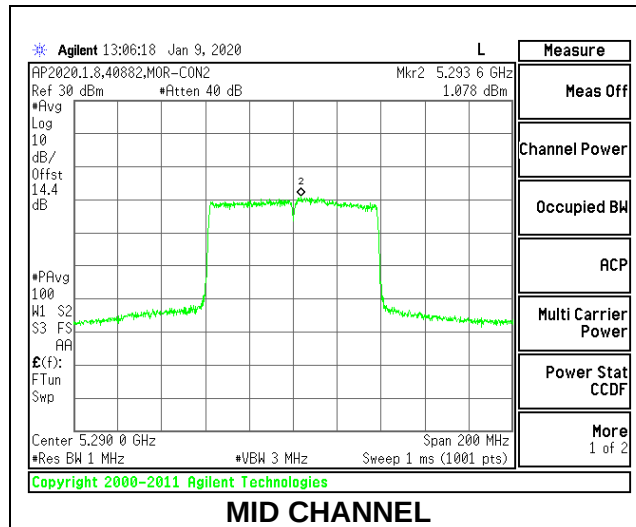
Duty Cycle CF (dB)	1.15	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	17.46	17.46	24.00	-6.54

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	1.078	2.23	11.00	-8.77



8.5.9. 802.11a MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)
Low	5500	24.9500	5.77
Mid	5580	23.6000	5.77
High	5700	21.8000	5.77
144	5720	20.4500	5.77

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)
Low	5500	24.00	24.00	11.00
Mid	5580	24.00	24.00	11.00
High	5700	24.00	24.00	11.00
144	5720	24.00	24.00	11.00

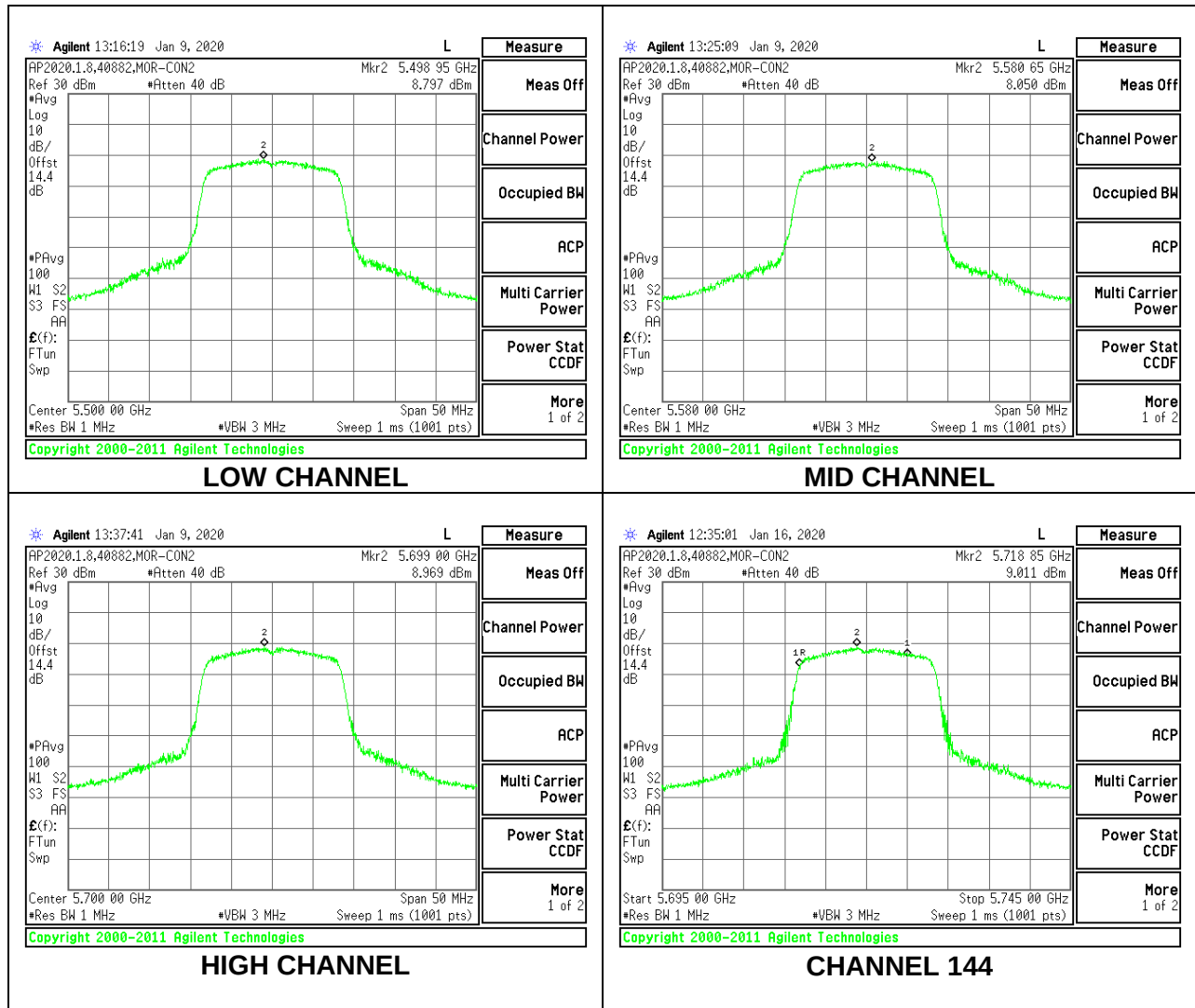
Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	18.59	18.59	24.00	-5.41
Mid	5580	18.18	18.18	24.00	-5.82
High	5700	18.57	18.57	24.00	-5.43
144	5720	18.68	18.68	24.00	-5.32

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	8.797	9.117	11.00	-1.88
Mid	5580	8.050	8.370	11.00	-2.63
High	5700	8.969	9.289	11.00	-1.71
144	5720	9.011	9.331	11.00	-1.67



8.5.10. 802.11n HT20 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)
Low	5500	27.0000	5.77
Mid	5580	27.1000	5.77
High	5700	25.2000	5.77
144	5720	24.4000	5.77

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)
Low	5500	24.00	24.00	11.00
Mid	5580	24.00	24.00	11.00
High	5700	24.00	24.00	11.00
144	5720	24.00	24.00	11.00

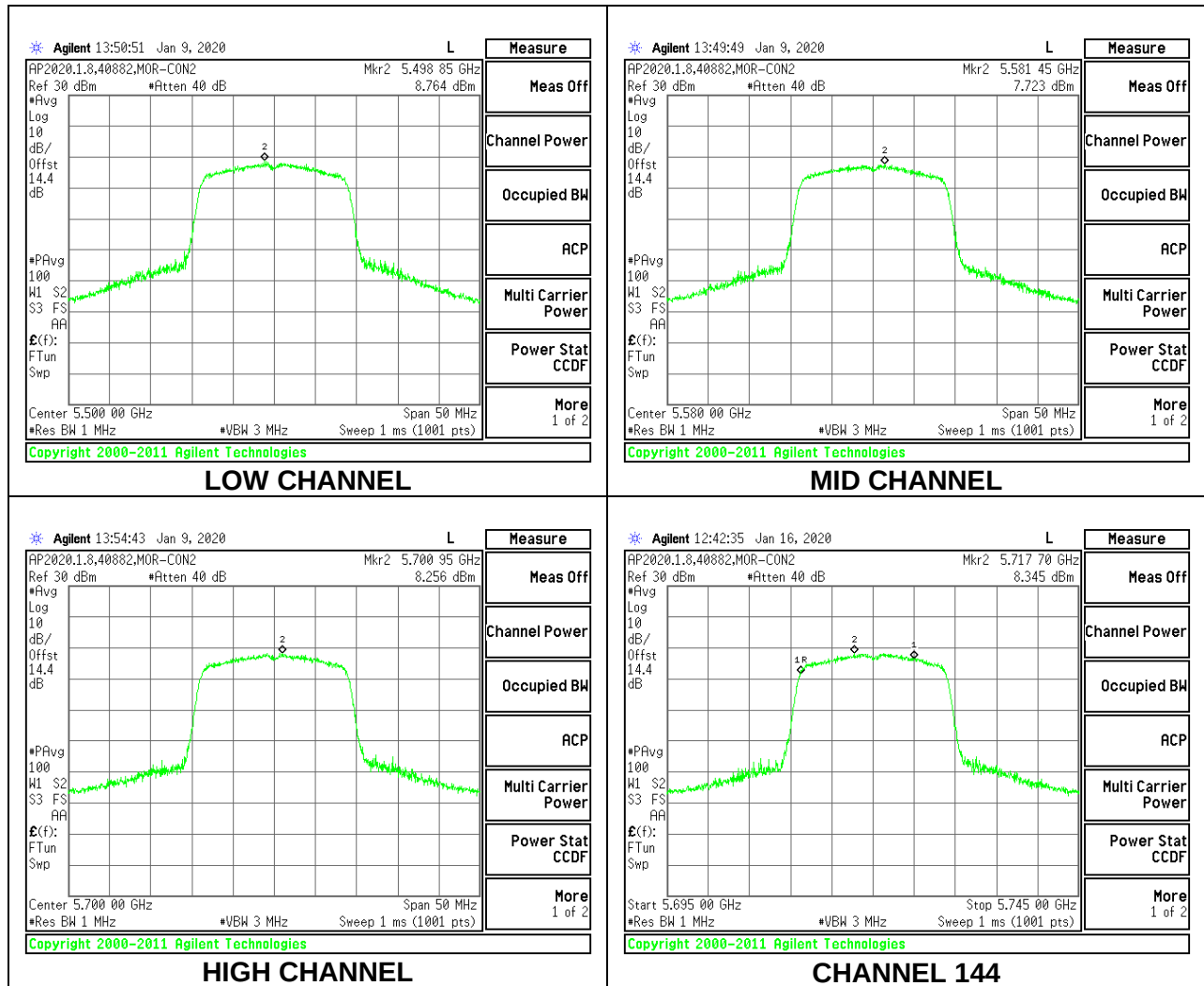
Duty Cycle CF (dB)		0.34	Included in Calculations of Corr'd PSD	
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	18.53	18.53	24.00	-5.47
Mid	5580	18.02	18.02	24.00	-5.98
High	5700	18.56	18.56	24.00	-5.44
144	5720	18.50	18.50	24.00	-5.50

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	8.764	9.104	11.00	-1.90
Mid	5580	7.723	8.063	11.00	-2.94
High	5700	8.256	8.596	11.00	-2.40
144	5720	8.345	8.685	11.00	-2.32



8.5.11. 802.11n HT40 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)
Low	5510	66.0000	5.77
Mid	5550	65.1000	5.77
High	5670	41.6000	5.77
142	5710	45.7000	5.77

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/1MHz)
Low	5510	24.00	24.00	11.00
Mid	5550	24.00	24.00	11.00
High	5670	24.00	24.00	11.00
142	5710	24.00	24.00	11.00

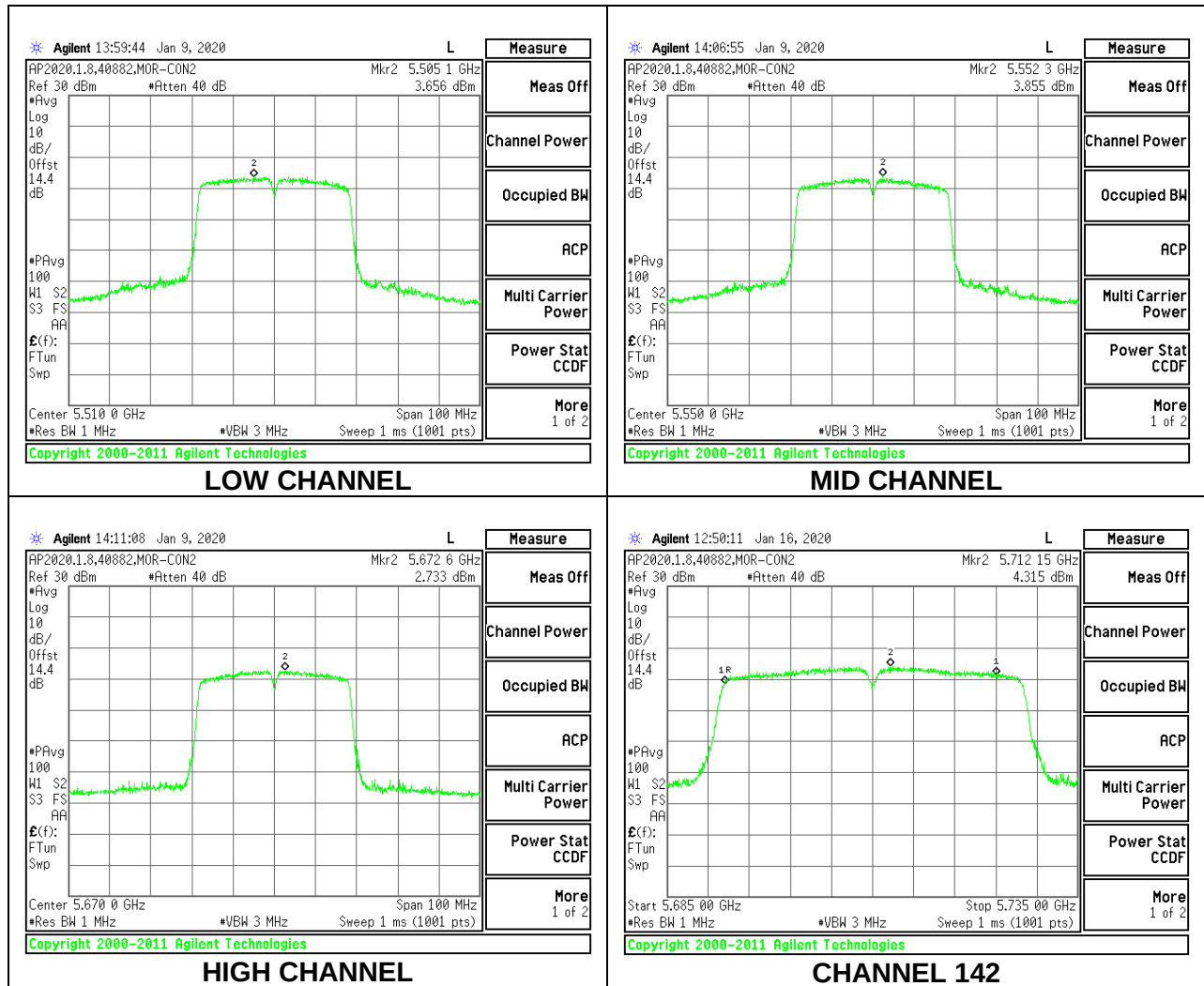
Duty Cycle CF (dB)		0.62	Included in Calculations of Corr'd PSD	
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	15.77	15.77	24.00	-8.23
Mid	5550	15.88	15.88	24.00	-8.12
High	5670	16.75	16.75	24.00	-7.25
142	5710	17.68	17.68	24.00	-6.32

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	3.656	4.276	11.00	-6.72
Mid	5580	3.855	4.475	11.00	-6.53
High	5700	2.733	3.353	11.00	-7.65
142	5710	4.315	4.935	11.00	-6.07



8.5.12. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 1 MODE (FCC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Direction Gain (dBi)
Low	5530	86.8000	5.77
High	5610	83.2000	5.77
138	5690	83.0000	5.77

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)
Low	5530	24.00	24.00	11.00
High	5610	24.00	24.00	11.00
138	5690	24.00	24.00	11.00

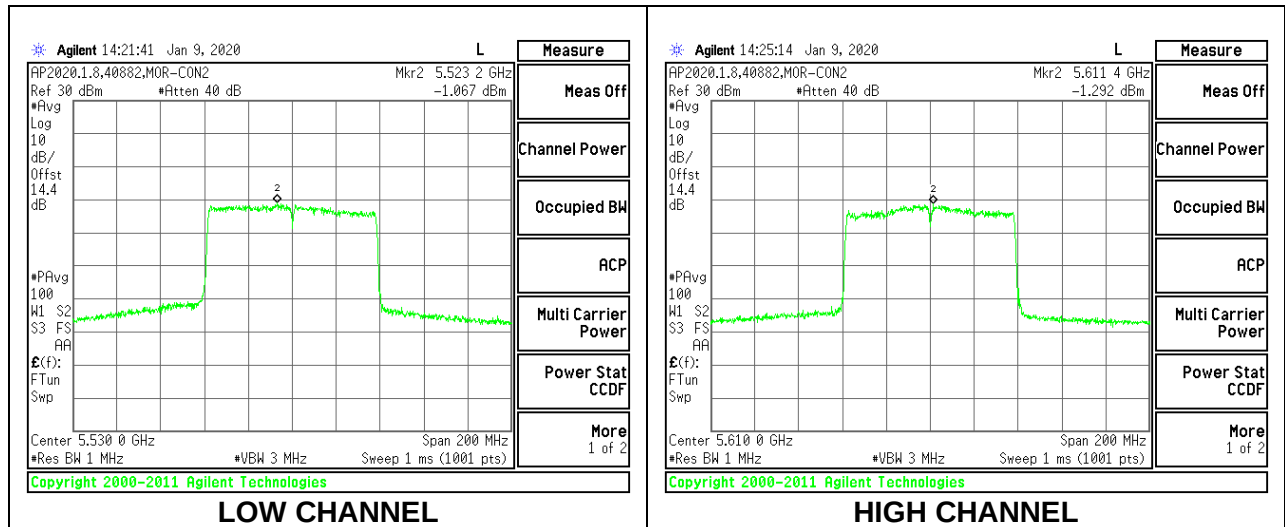
Duty Cycle CF (dB)	1.15	Included in Calculations of Corr'd PSD
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Output Power Results

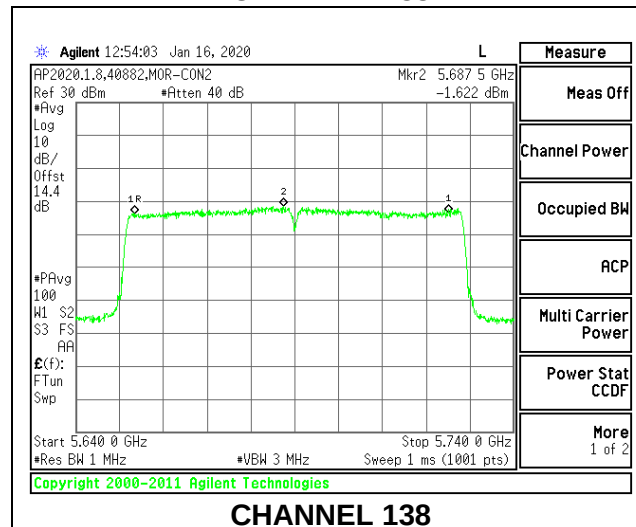
Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	13.62	13.62	24.00	-10.38
High	5610	16.45	16.45	24.00	-7.55
138	5690	16.55	16.55	24.00	-7.45

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	-1.067	0.083	11.00	-10.92
High	5610	-1.292	-0.142	11.00	-11.14
138	5610	-1.622	-0.472	11.00	-11.47



CHANNEL 138



8.5.13. 802.11a MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	FCC PSD Limit (dBm/ 500KHz)
Low	5745	5.77	30.00	30.00
Mid	5785	5.77	30.00	30.00
High	5825	5.77	30.00	30.00
144	5720	5.77	30.00	30.00

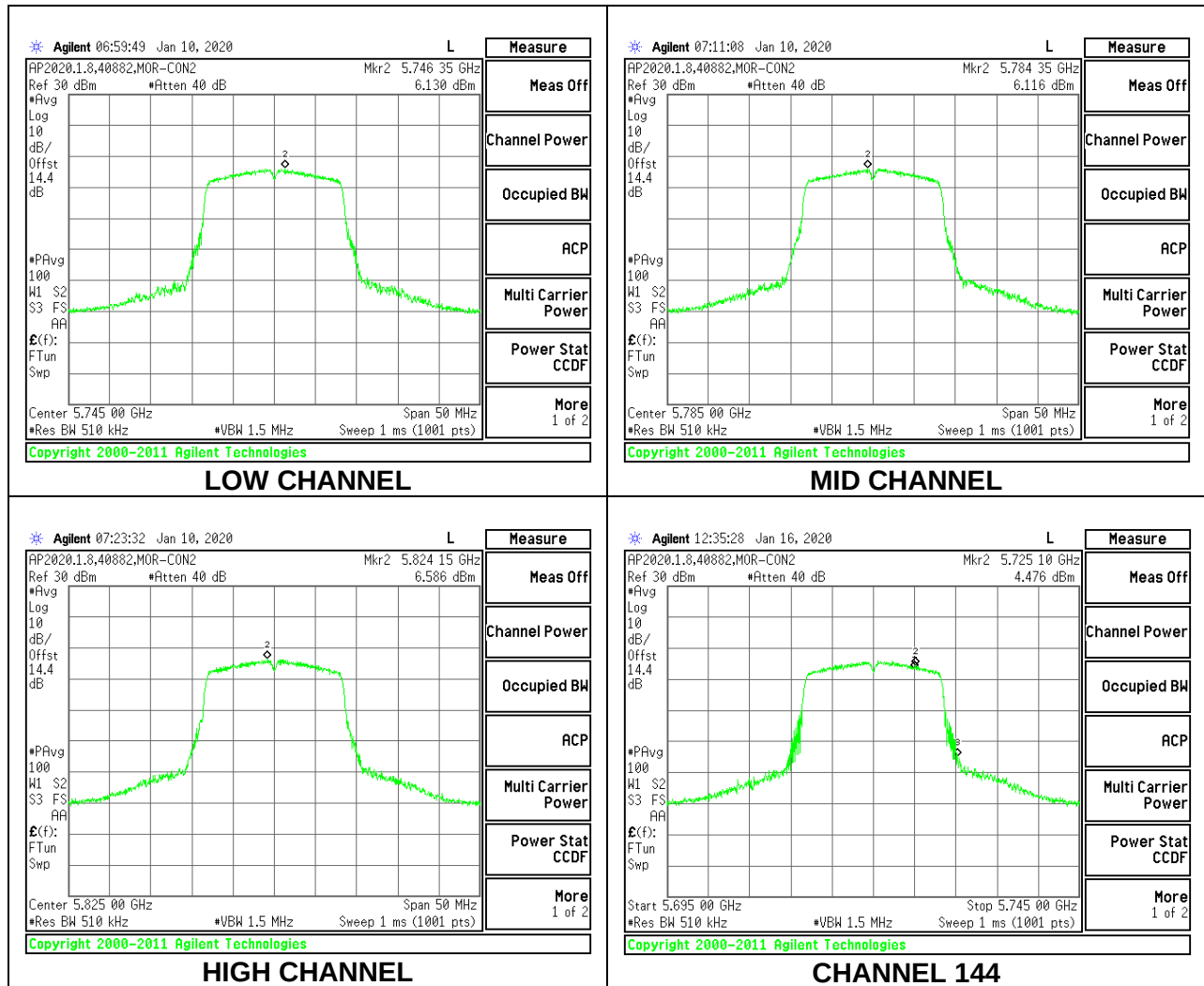
Duty Cycle CF (dB)	0.32	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.50	18.50	30.00	-11.50
Mid	5785	18.45	18.45	30.00	-11.55
High	5825	18.17	18.17	30.00	-11.83
144	5720	18.68	18.68	30.00	-11.32

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	6.130	6.450	30.00	-23.55
Mid	5785	6.116	6.436	30.00	-23.56
High	5825	6.586	6.906	30.00	-23.09
144	5720	4.476	4.796	30.00	-25.20



8.5.14. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC+IC)

Antenna Gain and Limits

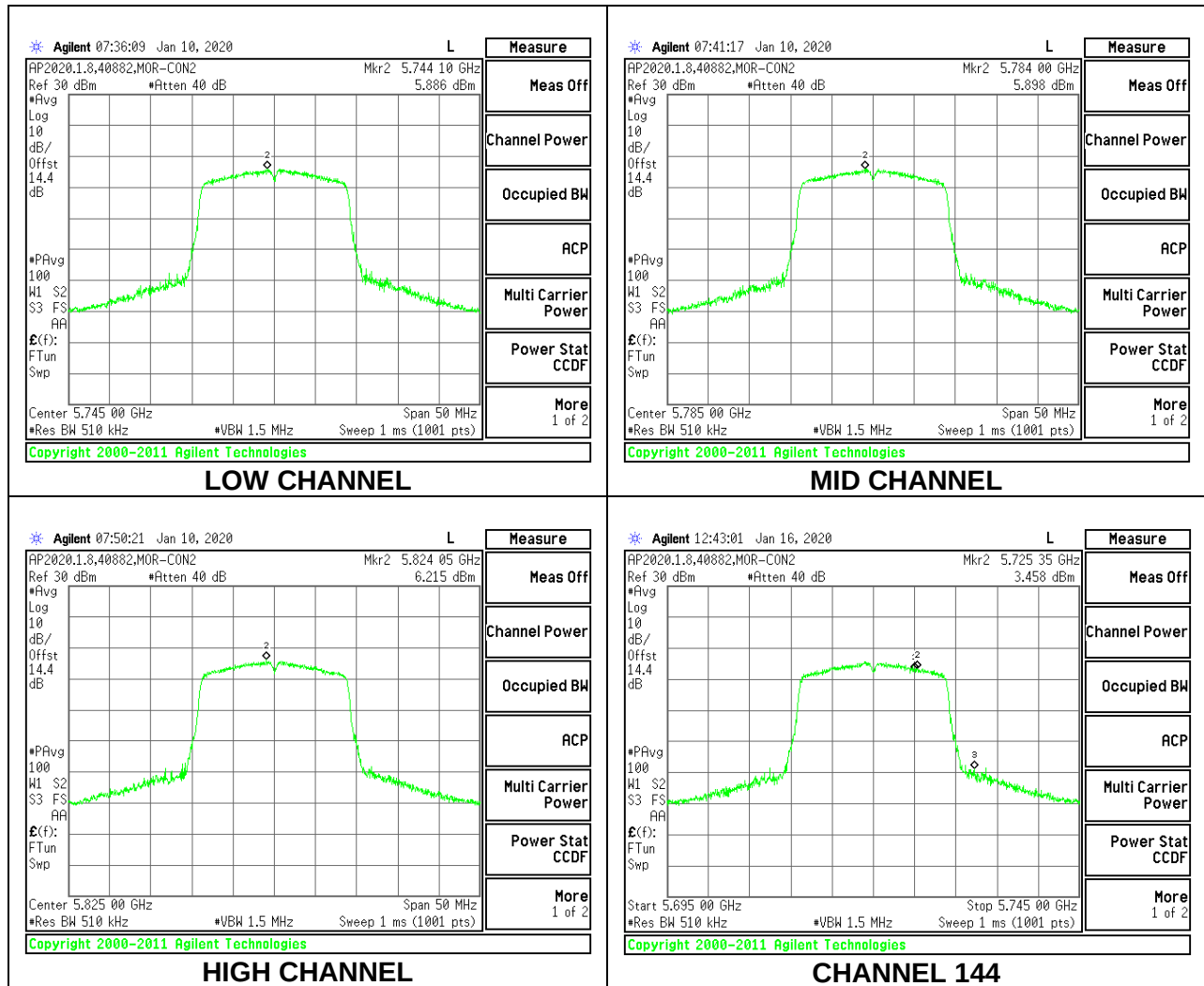
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	FCC PSD Limit (dBm/ 500KHz)
Low	5745	5.77	30.00	30.00
Mid	5785	5.77	30.00	30.00
High	5825	5.77	30.00	30.00
144	5720	5.77	30.00	30.00
Duty Cycle CF (dB)		0.34	Included in Calculations of Corr'd Power & PSD	

Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.39	18.39	30.00	-11.61
Mid	5785	18.61	18.61	30.00	-11.39
High	5825	18.06	18.06	30.00	-11.94
144	5720	18.50	18.50	30.00	-11.50

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	5.886	6.226	30.00	-23.77
Mid	5785	5.898	6.238	30.00	-23.76
High	5825	6.215	6.555	30.00	-23.45
144	5720	3.458	3.798	30.00	-26.20



8.5.15. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limits

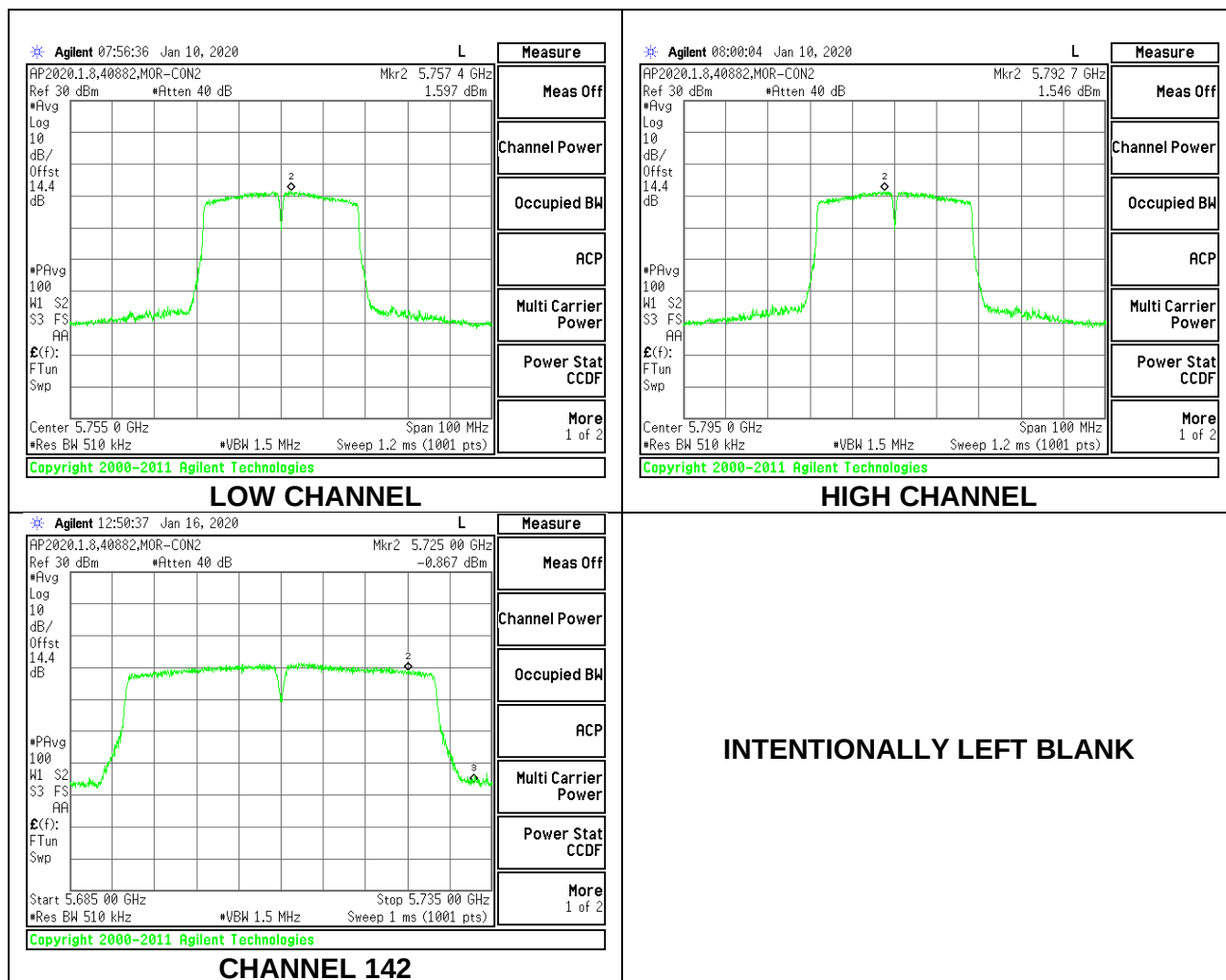
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	FCC PSD Limit (dBm/ 500KHz)
Low	5755	5.77	30.00	30.00
High	5795	5.77	30.00	30.00
142	5710	5.77	30.00	30.00
Duty Cycle CF (dB)		0.62	Included in Calculations of Corr'd PSD	

Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	17.67	17.67	30.00	-12.33
High	5795	17.13	17.13	30.00	-12.87
142	5710	17.68	17.68	30.00	-12.32

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5755	1.597	2.217	30.00	-27.78
High	5795	1.546	2.166	30.00	-27.83
142	5710	-0.867	-0.247	30.00	-30.25



8.5.16. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 1 MODE (FCC)

Antenna Gain and Limits

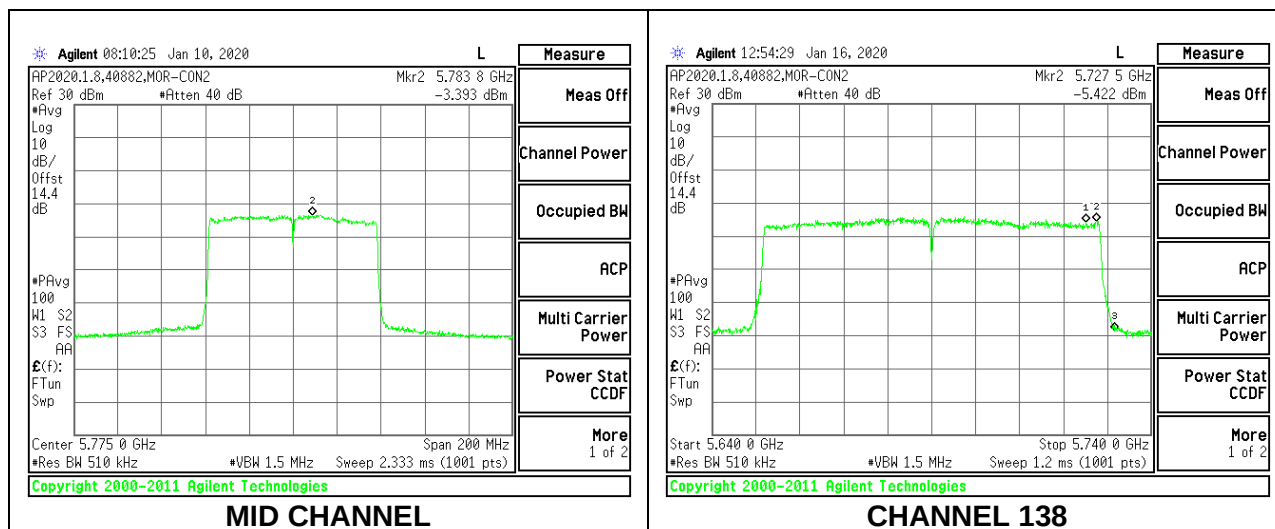
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC/ISE Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 500KHz)
Mid	5775	5.77	30.00	30.00
138	5690	5.77	30.00	30.00
Duty Cycle CF (dB)		1.15	Included in Calculations of Corr'd Power & PSD	

Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	17.48	17.48	30.00	-12.52
138	5690	16.55	16.55	30.00	-13.45

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5775	-3.393	-2.243	30.00	-32.24
138	5690	-5.422	-4.272	30.00	-34.27



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

FCC §15.407(b)(1-3) -Un-Restricted bands

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 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements for the 30-1000 MHz range, 9 kHz for peak detection measurements or 9 kHz for quasi-peak detection measurements for the 0.15-30 MHz range and 200 Hz for peak detection measurements or 200 Hz for quasi-peak detection measurements for the 9 to 150 kHz 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 voltage averaging measurements.

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 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.

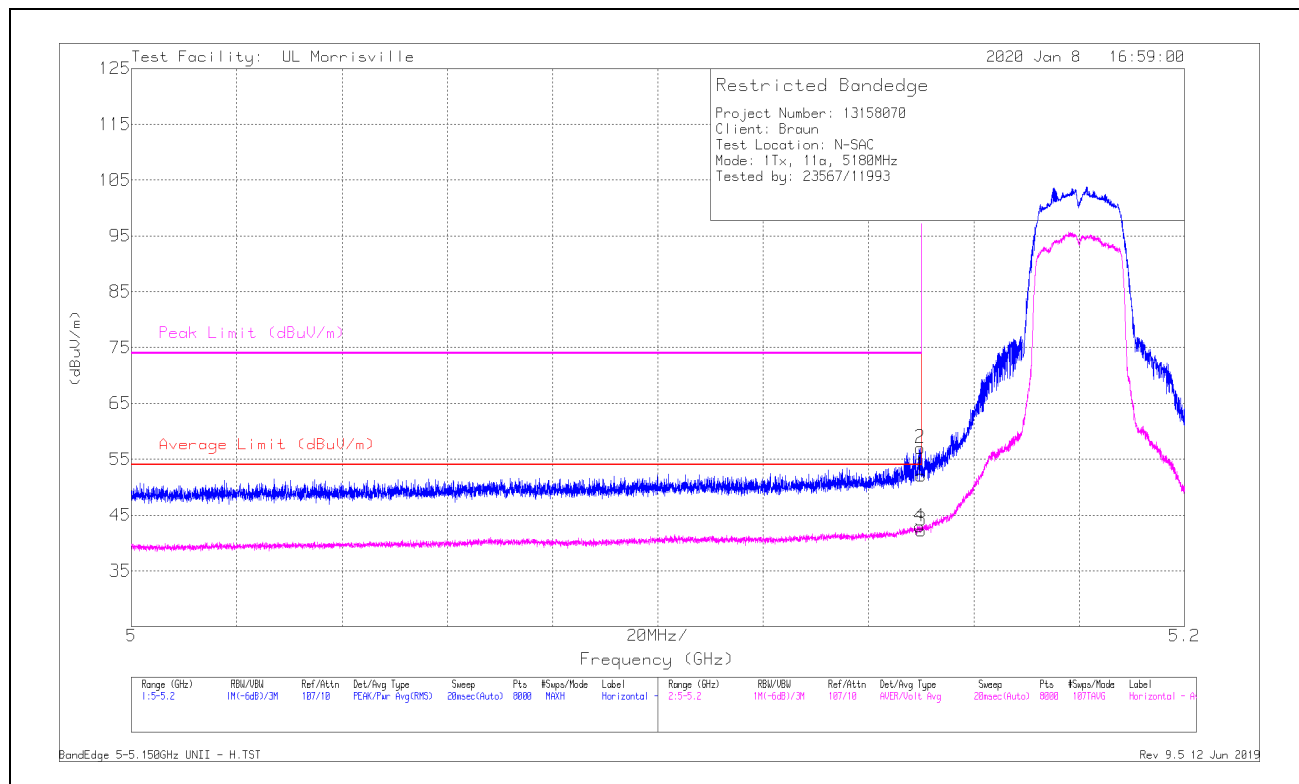
9.1. TRANSMITTER ABOVE 1 GHz

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	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 5.14999	40.62	Pk	34.1	-22.6	0	52.12	-	-	74	-21.88	192	175	H
2	*** 5.14977	45.52	Pk	34.1	-22.6	0	57.02	-	-	74	-16.98	192	175	H
3	*** 5.14999	30.14	ADV	34.1	-22.6	.64	42.28	54	-11.72	-	-	192	175	H
4	** 5.14974	30.8	ADV	34.1	-22.6	.64	42.94	54	-11.06	-	-	192	175	H

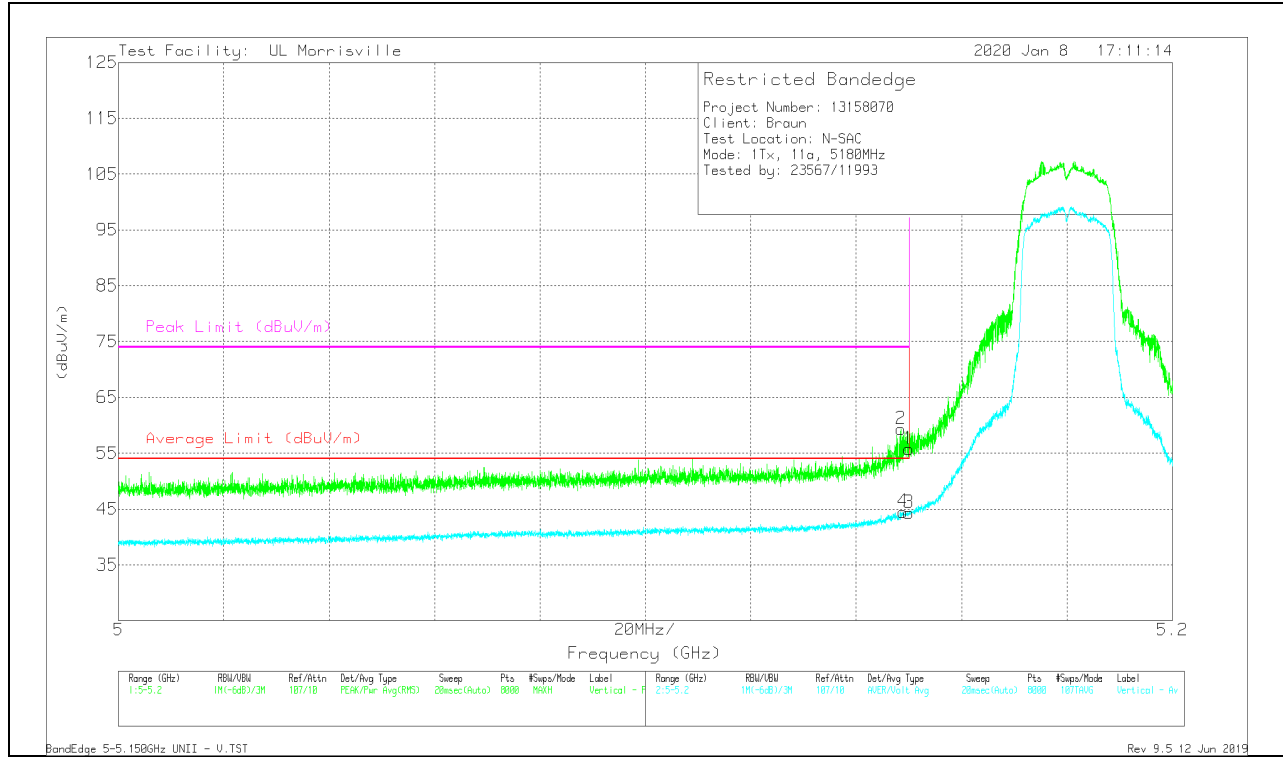
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Fitr/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	44.21	Pk	34.1	-22.6	0	55.71	-	-	74	-18.29	66	132	V
2	* ** 5.14852	47.79	Pk	34.1	-22.6	0	59.29	-	-	74	-14.71	66	132	V
3	* ** 5.14999	32.18	ADV	34.1	-22.6	.64	44.32	54	-9.68	-	-	66	132	V
4	* ** 5.14884	32.34	ADV	34.1	-22.6	.64	44.48	54	-9.52	-	-	66	132	V

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

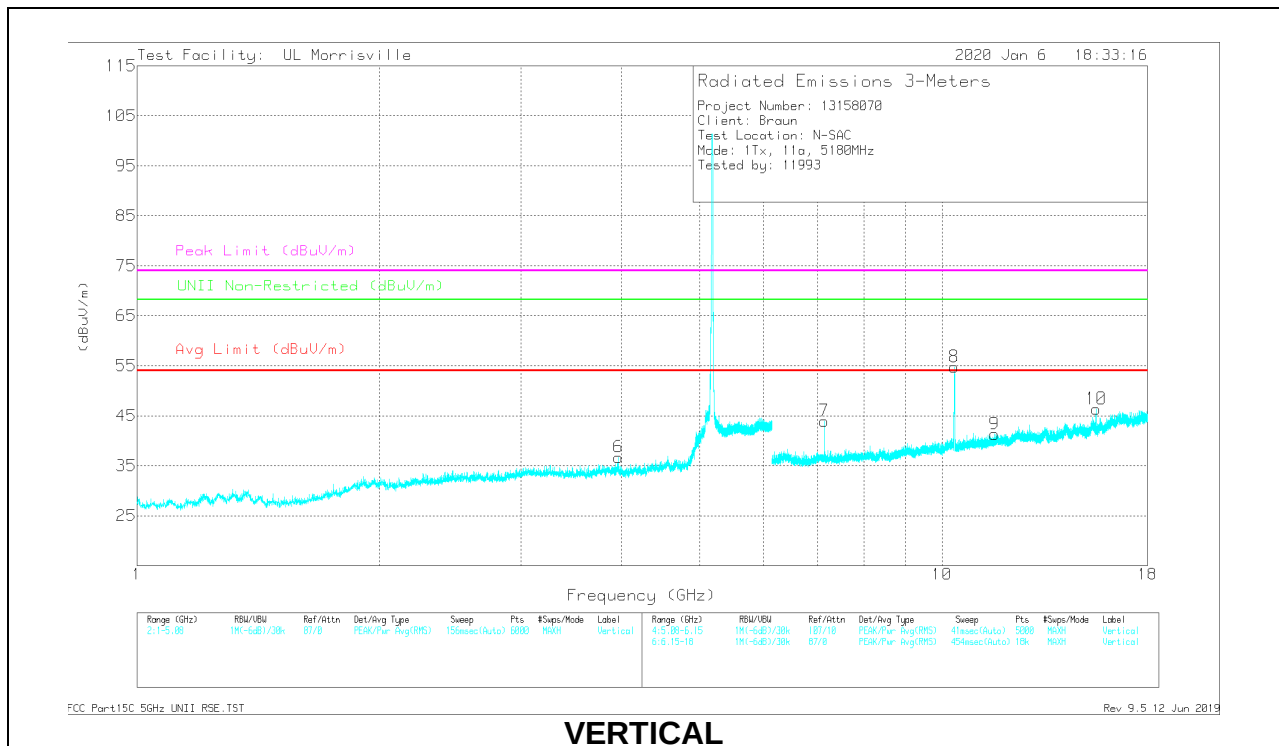
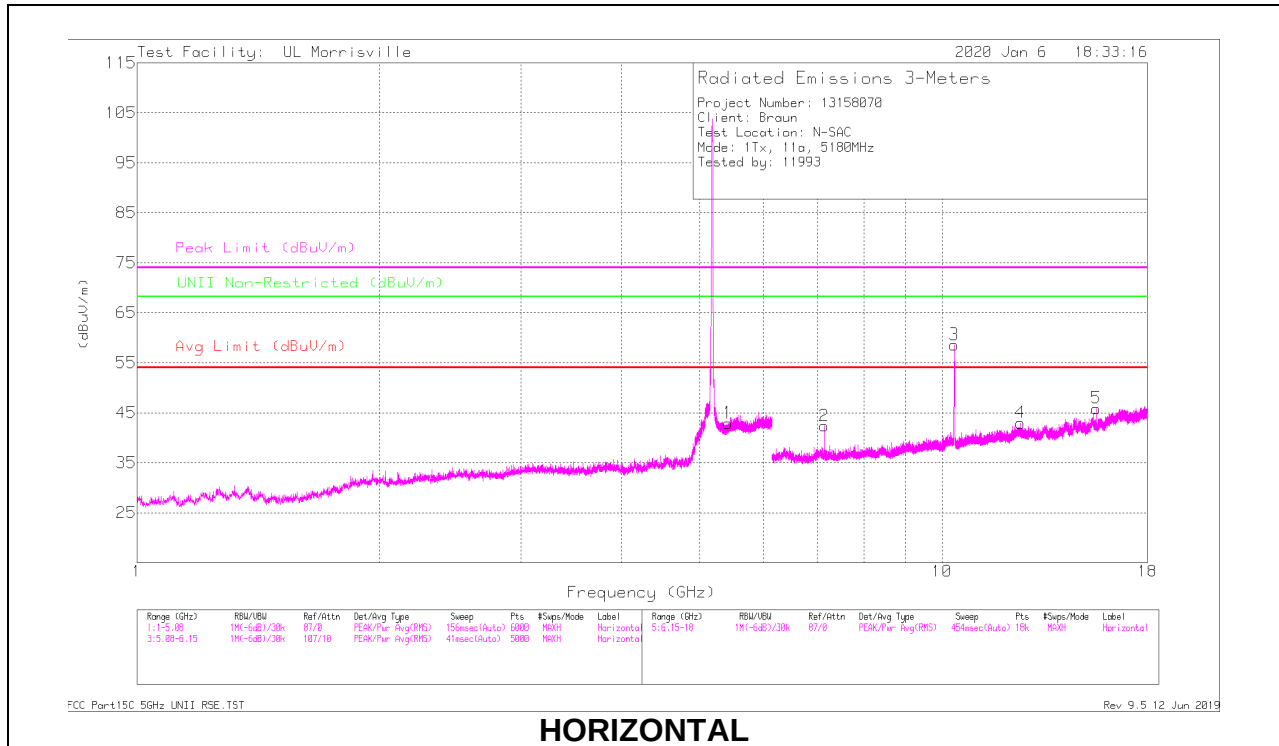
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* ** 3.96546	44.2	PK-U	33.4	-31.6	0	46	-	-	74	-28	-	-	236	189	V
	* ** 3.96493	32.8	ADV	33.4	-31.6	.64	35.24	54	-18.76	-	-	-	-	236	189	V
1	* ** 5.42081	38.44	PK-U	34.4	-23.3	0	49.54	-	-	74	-24.46	-	-	136	286	H
	* ** 5.42104	25.34	ADV	34.4	-23.3	.64	37.08	54	-16.92	-	-	-	-	136	286	H
4	* ** 12.5108	33.46	PK-U	39	-24	0	48.46	-	-	74	-25.54	-	-	334	162	H
	* ** 12.51026	20.79	ADV	39	-24	.64	36.43	54	-17.57	-	-	-	-	334	162	H
5	* ** 15.54383	39.73	PK-U	40	-24.5	0	55.23	-	-	74	-18.77	-	-	160	157	H
	* ** 15.54338	24.7	ADV	40	-24.5	.64	40.84	54	-13.16	-	-	-	-	160	157	H
9	* ** 11.62369	33.53	PK-U	38.3	-24.5	0	47.33	-	-	74	-26.67	-	-	245	122	V
	* ** 11.62593	20.94	ADV	38.3	-24.5	.64	35.38	54	-18.62	-	-	-	-	245	122	V
10	* ** 15.54403	37.87	PK-U	40	-24.5	0	53.37	-	-	74	-20.63	-	-	8	106	V
	* ** 15.54219	24.27	ADV	40	-24.5	.64	40.41	54	-13.59	-	-	-	-	8	106	V
2	7.13688	41.35	PK-U	35.7	-28.5	0	48.55	-	-	-	-	68.2	-19.65	351	106	H
7	7.13727	42.79	PK-U	35.7	-28.5	0	49.99	-	-	-	-	68.2	-18.21	250	142	V
8	10.35642	49.21	PK-U	37.5	-25	0	61.71	-	-	-	-	68.2	-6.49	344	108	V
3	10.36028	51.42	PK-U	37.5	-25	0	63.92	-	-	-	-	68.2	-4.28	85	111	H

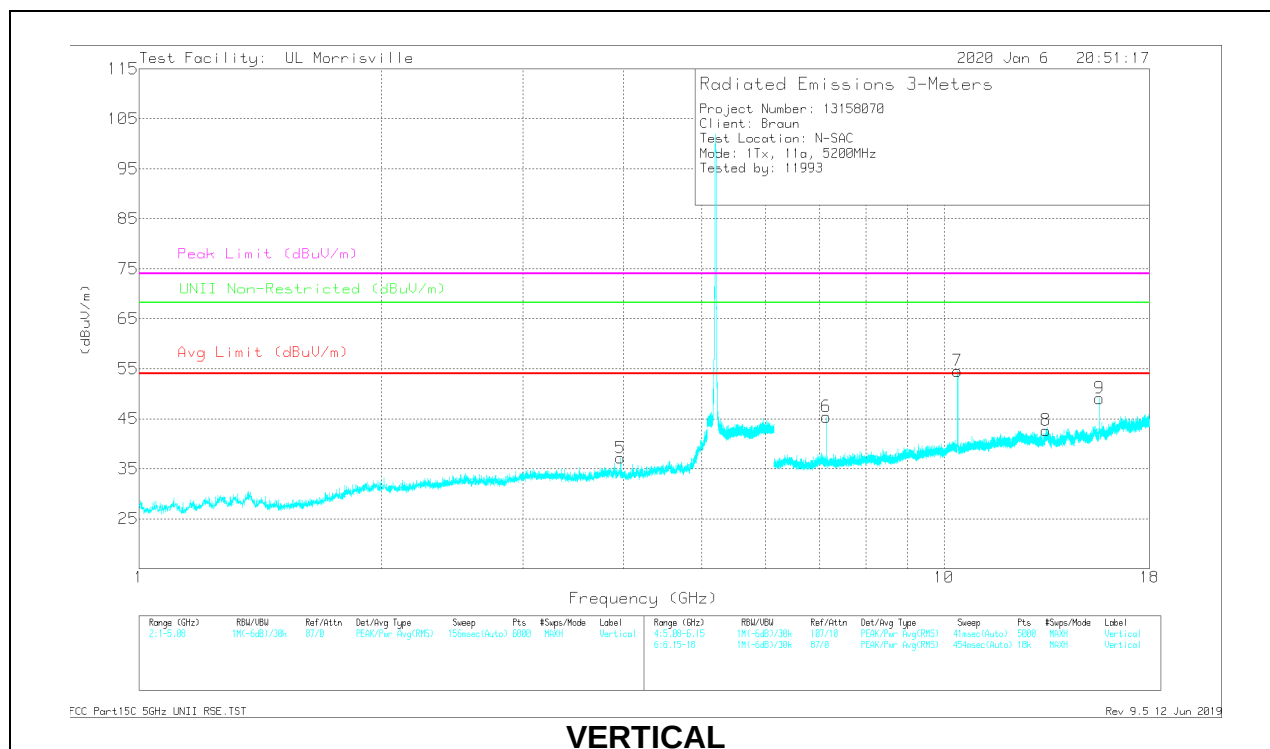
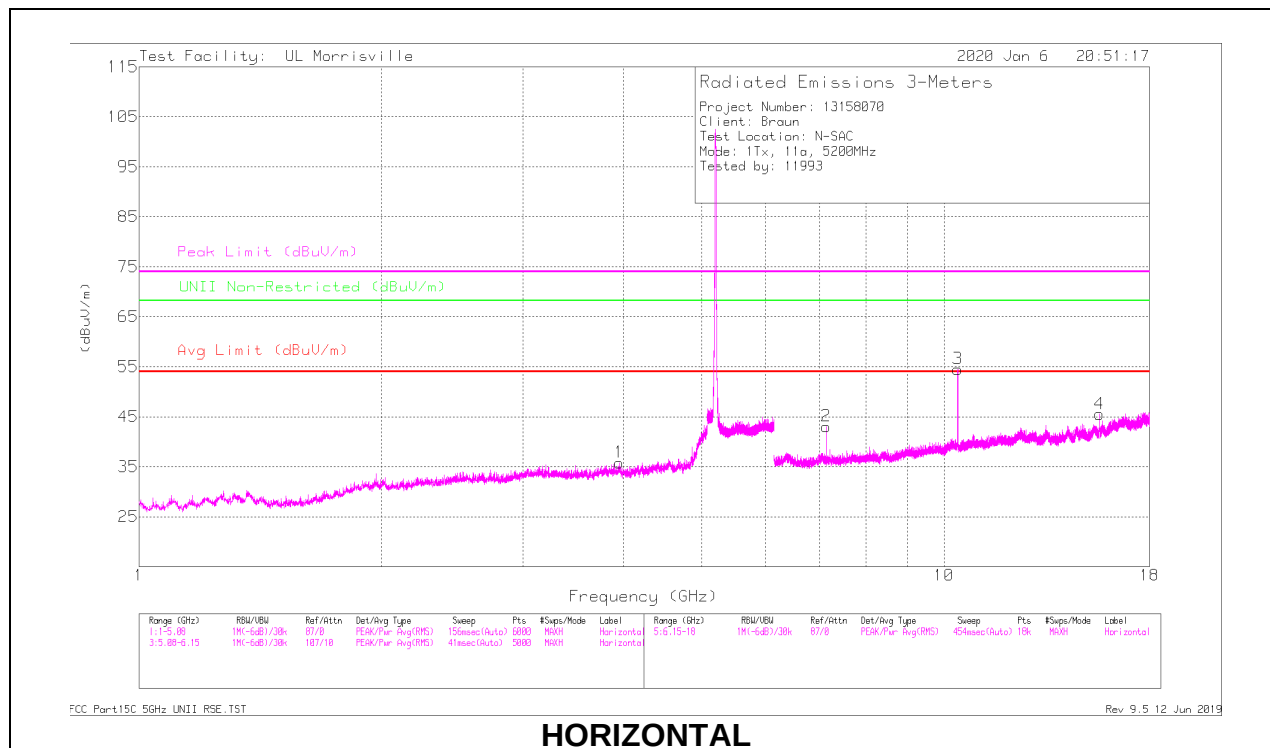
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	*** 3.95175	39.7	PK-U	33.4	-31.7	0	41.4	-	-	74	-32.6	-	-	2	189	H
	*** 3.95159	26.79	ADV	33.4	-31.7	.64	29.13	54	-24.87	-	-	-	-	2	189	H
5	*** 3.96559	42.49	PK-U	33.4	-31.6	0	44.29	-	-	74	-29.71	-	-	246	159	V
	*** 3.96493	32.75	ADV	33.4	-31.6	.64	35.19	54	-18.81	-	-	-	-	246	159	V
4	*** 15.59452	37.6	PK-U	40	-24.4	0	53.2	-	-	74	-20.8	-	-	55	122	H
	*** 15.59503	24.28	ADV	40	-24.4	.64	40.52	54	-13.48	-	-	-	-	55	122	H
8	*** 13.37893	34.48	PK-U	39	-23.8	0	49.68	-	-	74	-24.32	-	-	75	295	V
	*** 13.37911	21.58	ADV	39	-23.8	.64	37.42	54	-16.58	-	-	-	-	75	295	V
9	*** 15.60381	40.87	PK-U	40	-24.3	0	56.57	-	-	74	-17.43	-	-	92	113	V
	*** 15.60238	26.39	ADV	40	-24.3	.64	42.73	54	-11.27	-	-	-	-	92	113	V
2	7.13683	41.6	PK-U	35.7	-28.5	0	48.8	-	-	-	-	68.2	-19.4	350	115	H
6	7.13707	42.28	PK-U	35.7	-28.5	0	49.48	-	-	-	-	68.2	-18.72	253	101	V
7	10.39644	49.71	PK-U	37.5	-25.1	0	62.11	-	-	-	-	68.2	-6.09	347	114	V
3	10.4019	48.67	PK-U	37.5	-25.1	0	61.07	-	-	-	-	68.2	-7.13	83	107	H

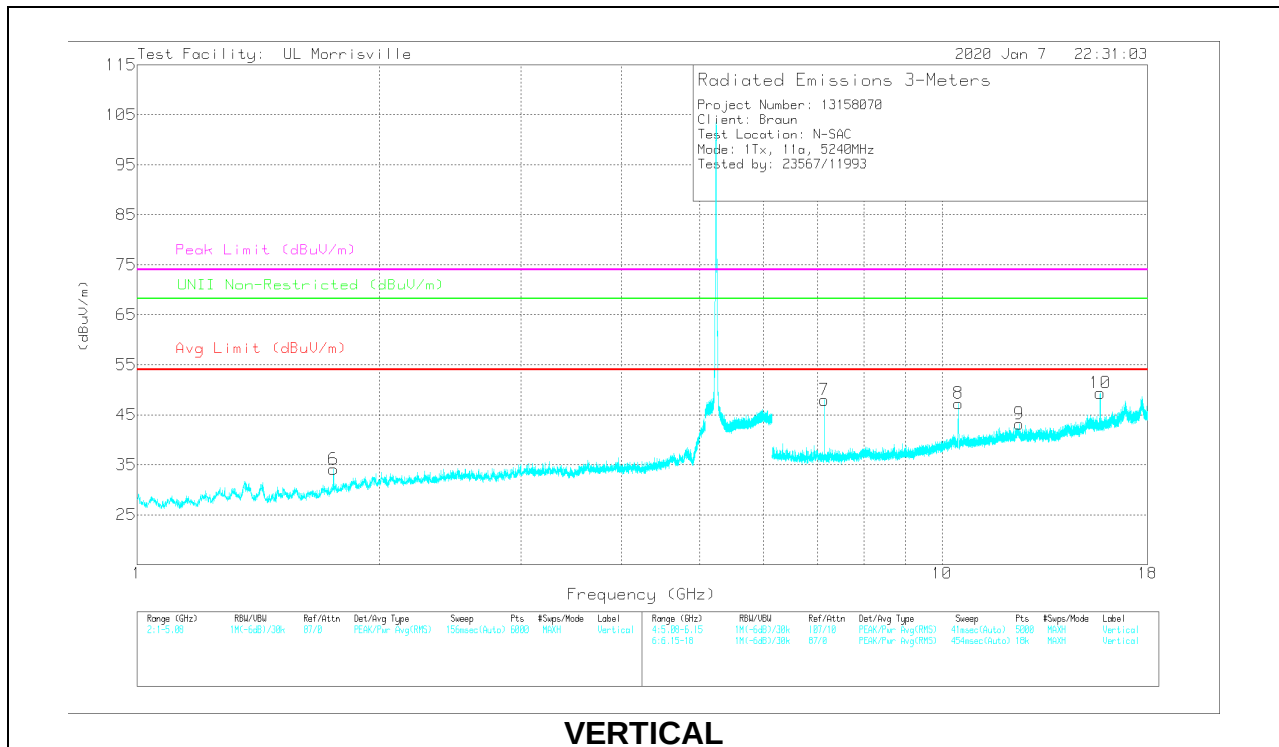
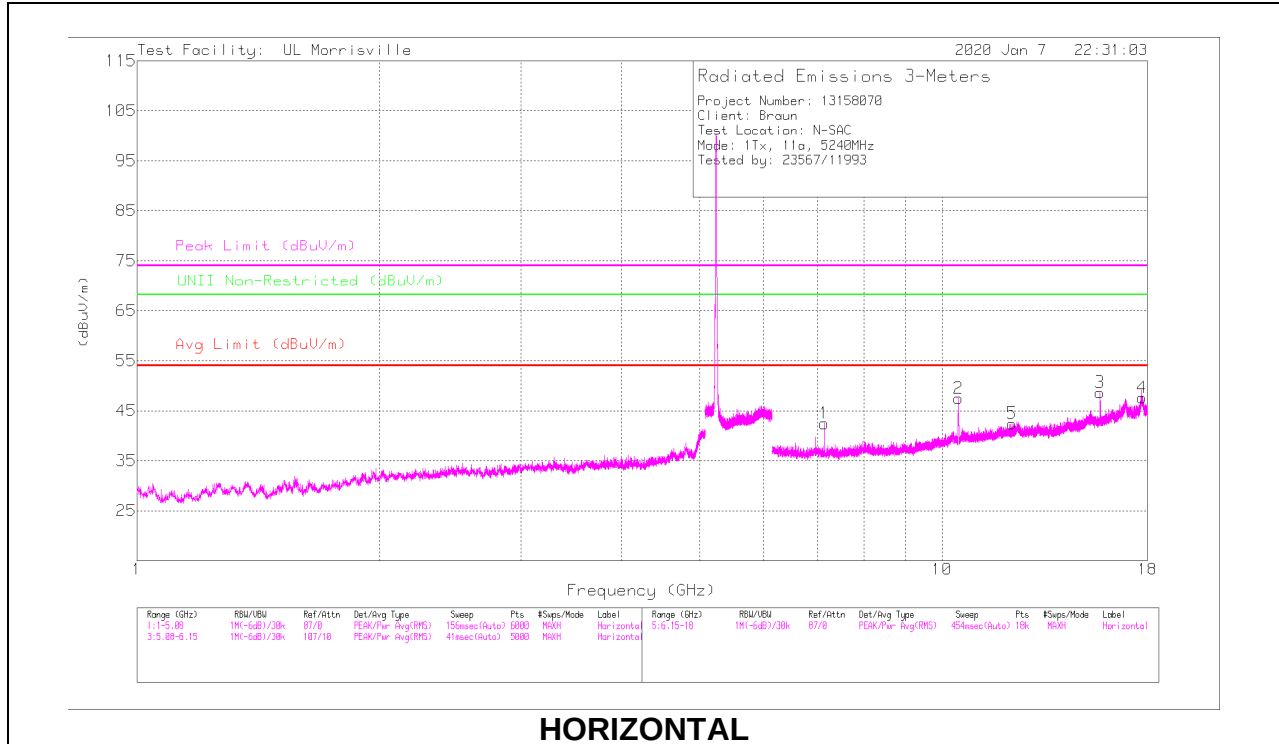
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
6	** 1.75195	43.92	PK-U	29.7	-35.5	0	38.12	-	-	-	-	68.2	-30.08	65	321	V
	** 1.75404	30.58	ADV	29.8	-35.5	.64	25.52	-	-	-	-	-	-	65	321	V
3	*** 15.71801	42.97	PK-U	40.1	-25.4	0	57.67	-	-	74	-16.33	-	-	66	215	H
	*** 15.71847	28.55	ADV	40.1	-25.4	.64	43.89	54	-10.11	-	-	-	-	66	215	H
4	*** 17.72191	34.21	PK-U	41.1	-20.4	0	54.91	-	-	74	-19.09	-	-	38	152	H
	*** 17.72211	20.85	ADV	41.1	-20.4	.64	42.19	54	-11.81	-	-	-	-	38	152	H
5	*** 12.21896	35.99	PK-U	38.8	-26.4	0	48.39	-	-	74	-25.61	-	-	119	161	H
	*** 12.21867	22.58	ADV	38.8	-26.4	.64	35.62	54	-18.38	-	-	-	-	119	161	H
9	*** 12.47304	35.24	PK-U	38.8	-25.4	0	48.64	-	-	74	-25.36	-	-	107	179	V
	*** 12.47321	22.06	ADV	38.8	-25.4	.64	36.1	54	-17.9	-	-	-	-	107	179	V
10	*** 15.72019	43.19	PK-U	40.1	-25.4	0	57.89	-	-	74	-16.11	-	-	23	110	V
	*** 15.71959	29.09	ADV	40.1	-25.4	.64	44.43	54	-9.57	-	-	-	-	23	110	V
1	7.13667	46.71	PK-U	35.7	-30.2	0	52.21	-	-	-	-	68.2	-15.99	181	160	H
7	7.13707	42.47	PK-U	35.7	-30.2	0	47.97	-	-	-	-	68.2	-20.23	279	102	V
2	10.47831	44.9	PK-U	37.5	-27.2	0	55.2	-	-	-	-	68.2	-13	52	105	H
8	10.4796	43.36	PK-U	37.5	-27.2	0	53.66	-	-	-	-	68.2	-14.54	50	384	V

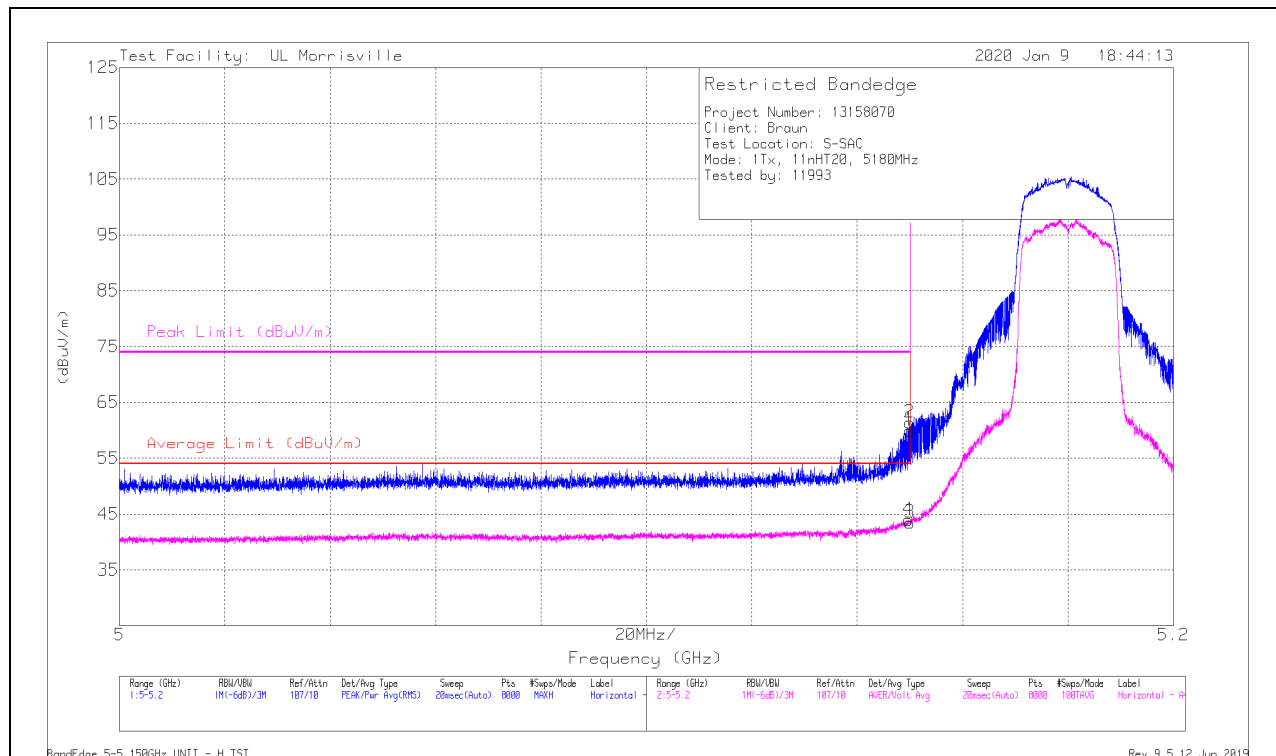
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 ** - indicates frequency in Taiwan NCC LP0002 Restricted Band
 PK-U - U-NII: Maximum Peak
 ADV - U-NII AD primary method, Linear Voltage Average
 Pk - Peak detector

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)	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	48.28	Pk	34.3	-22.6	0	59.98	-	-	74	-14.02	208	158	H
2	* ** 5.14994	49.72	Pk	34.3	-22.6	0	61.42	-	-	74	-12.58	208	158	H
3	* ** 5.14999	31.08	ADV	34.3	-22.6	.68	43.46	54	-10.54	-	-	208	158	H
4	* ** 5.14969	31.53	ADV	34.3	-22.6	.68	43.91	54	-10.09	-	-	208	158	H

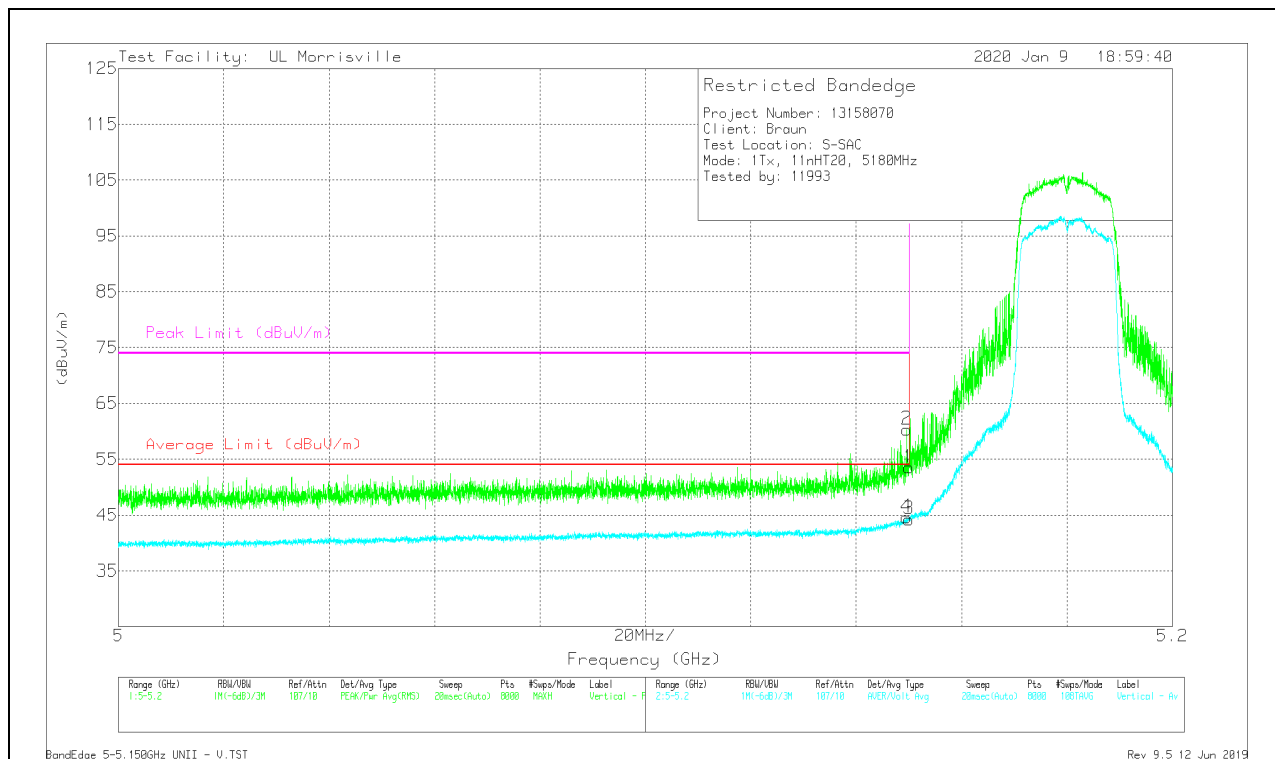
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	41.82	Pk	34.3	-22.6	0	53.52	-	-	74	-20.48	166	187	V
2	* ** 5.14959	48.65	Pk	34.3	-22.6	0	60.35	-	-	74	-13.65	166	187	V
3	* ** 5.14999	31.88	ADV	34.3	-22.6	.68	44.26	54	-9.74	-	-	166	187	V
4	* ** 5.14952	32.22	ADV	34.3	-22.6	.68	44.6	54	-9.4	-	-	166	187	V

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

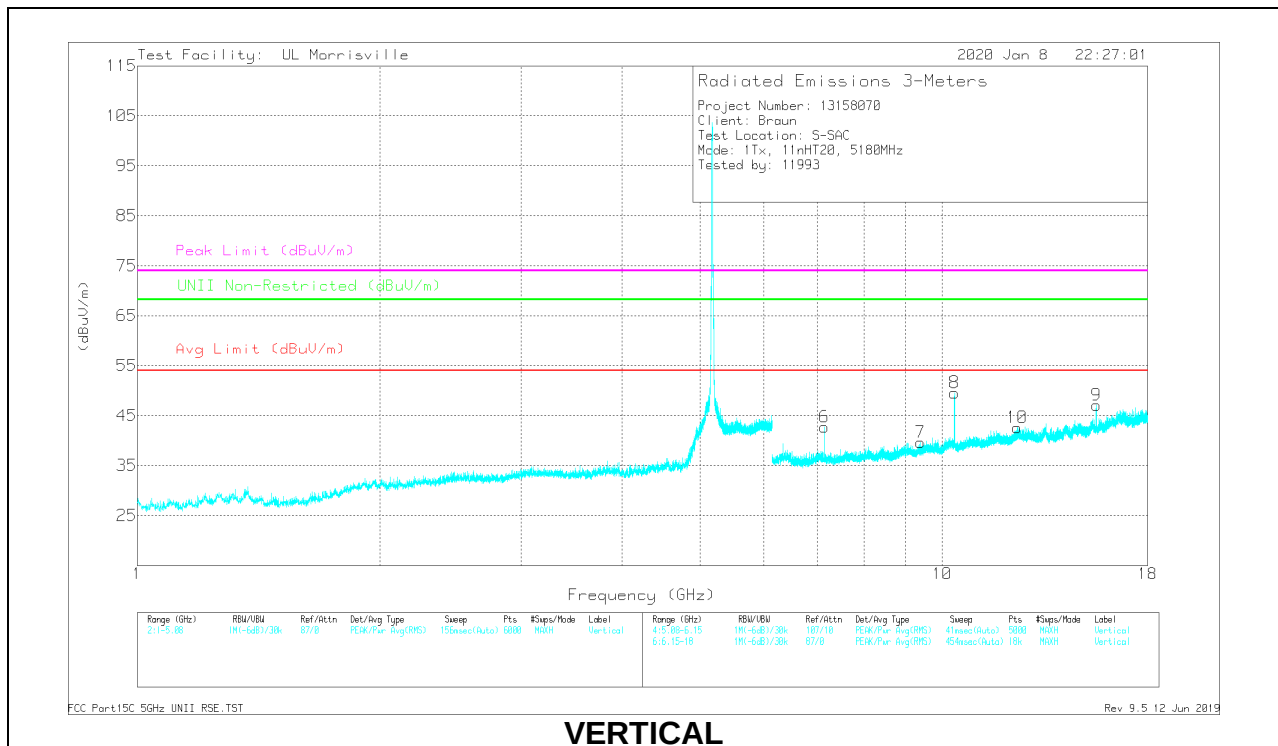
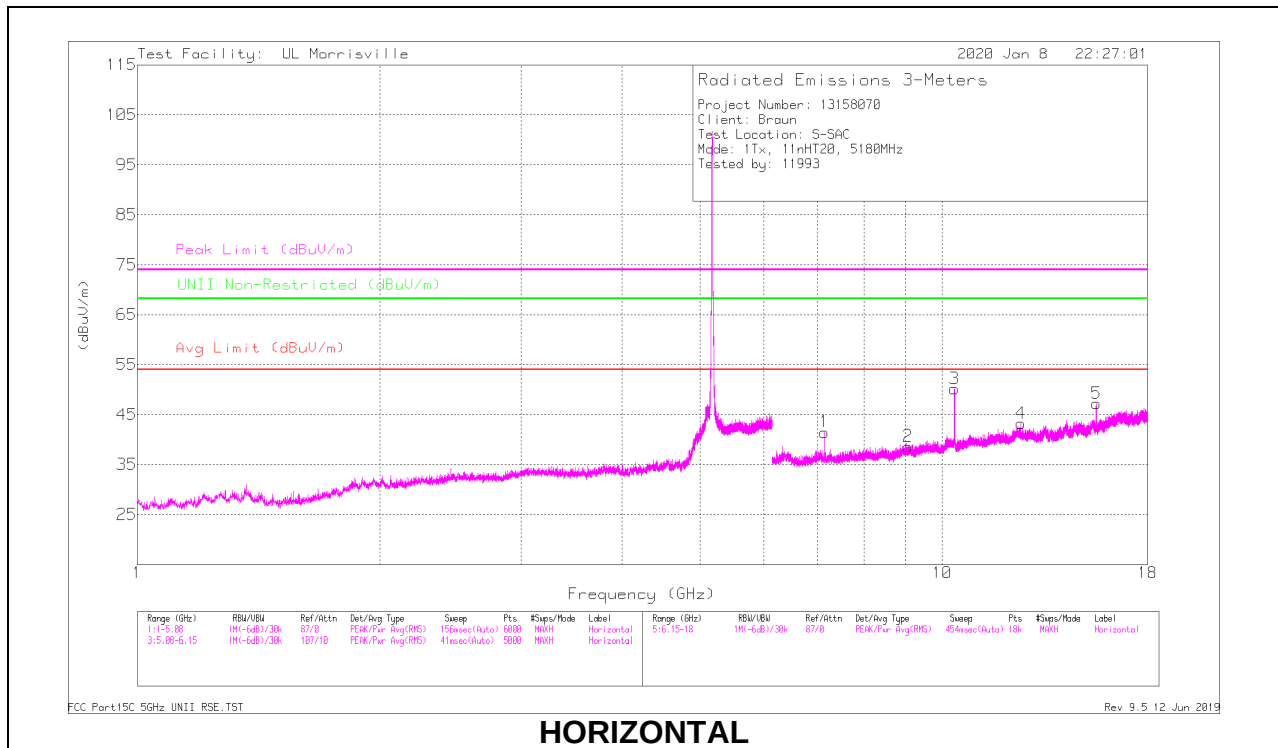
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*** 9.06866	35.47	PK-U	36.6	-26.9	0	45.17	-	-	74	-28.83	-	-	111	250	H
	*** 9.06791	22.66	ADV	36.6	-26.9	.68	33.04	54	-20.96	-	-	-	-	111	250	H
4	*** 12.52486	33.95	PK-U	39	-23.9	0	49.05	-	-	74	-24.95	-	-	267	219	H
	*** 12.52488	20.52	ADV	39	-23.9	.68	36.3	54	-17.7	-	-	-	-	267	219	H
5	*** 15.54741	37.83	PK-U	40	-24.5	0	53.33	-	-	74	-20.67	-	-	110	204	H
	*** 15.54744	23.72	ADV	40	-24.5	.68	39.9	54	-14.1	-	-	-	-	110	204	H
7	*** 9.39415	35.17	PK-U	36.9	-26.4	0	45.67	-	-	74	-28.33	-	-	51	186	V
	*** 9.3939	22.09	ADV	36.9	-26.4	.68	33.27	54	-20.73	-	-	-	-	51	186	V
9	*** 15.54112	41.81	PK-U	40	-24.4	0	57.41	-	-	74	-16.59	-	-	75	121	V
	*** 15.54114	27.04	ADV	40	-24.4	.68	43.32	54	-10.68	-	-	-	-	75	121	V
10	*** 12.40303	33.71	PK-U	38.8	-23.4	0	49.11	-	-	74	-24.89	-	-	246	339	V
	*** 12.40308	20.49	ADV	38.8	-23.4	.68	36.57	54	-17.43	-	-	-	-	246	339	V
1	7.1366	40.21	PK-U	35.7	-28.5	0	47.41	-	-	-	-	68.2	-20.79	326	103	H
6	7.13692	41.36	PK-U	35.7	-28.5	0	48.56	-	-	-	-	68.2	-19.64	212	392	V
3	10.36049	48.33	PK-U	37.5	-25	0	60.83	-	-	-	-	68.2	-7.37	357	116	H
8	10.36066	45.6	PK-U	37.5	-25	0	58.1	-	-	-	-	68.2	-10.1	331	220	V

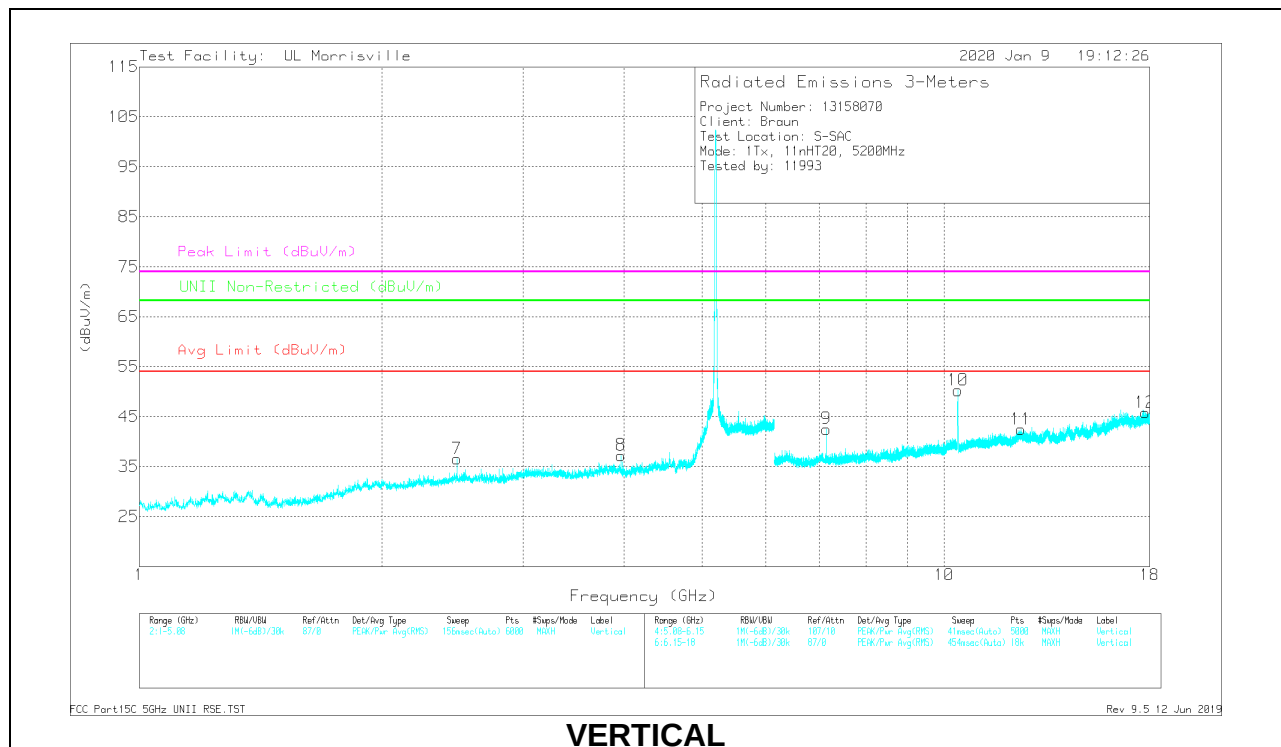
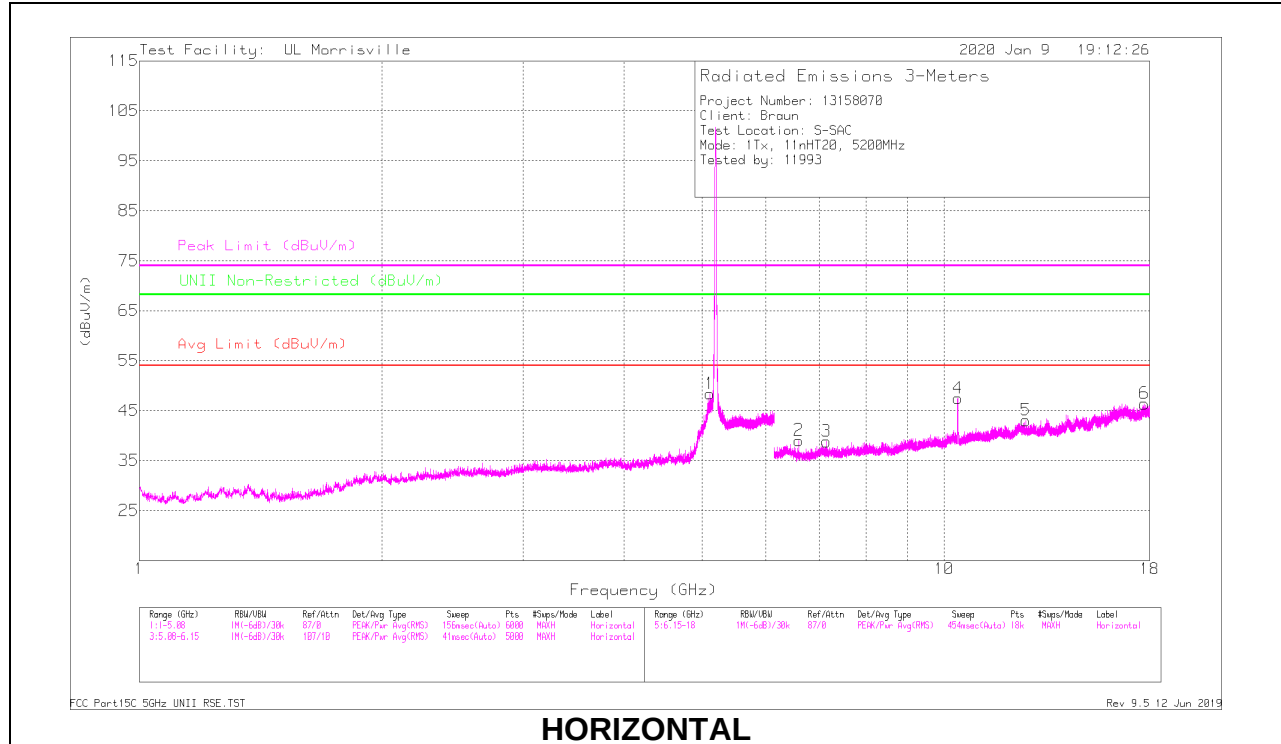
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	* ** 3.96518	44.01	PK-U	33.4	-31.6	0	45.81	-	-	74	-28.19	-	-	226	203	V
	* ** 3.96496	30.3	ADV	33.4	-31.6	.68	32.78	54	-21.22	-	-	-	-	226	203	V
1	* ** 5.12014	42.44	PK-U	34.2	-22.6	0	54.04	-	-	74	-19.96	-	-	253	225	H
	* ** 5.11879	29.49	ADV	34.2	-22.6	.68	41.77	54	-12.23	-	-	-	-	253	225	H
5	* ** 12.62738	33.97	PK-U	39.1	-24.2	0	48.87	-	-	74	-25.13	-	-	311	255	H
	* ** 12.6283	21.15	ADV	39.1	-24.2	.68	36.73	54	-17.27	-	-	-	-	311	255	H
6	* ** 17.73821	33.82	PK-U	41.3	-22	0	53.12	-	-	74	-20.88	-	-	25	368	H
	* ** 17.73822	21	ADV	41.3	-22	.68	40.98	54	-13.02	-	-	-	-	25	368	H
11	* ** 12.46384	33.67	PK-U	38.9	-23.6	0	48.97	-	-	74	-25.03	-	-	218	285	V
	* ** 12.46546	20.72	ADV	38.9	-23.6	.68	36.7	54	-17.3	-	-	-	-	218	285	V
12	* ** 17.79759	33.42	PK-U	41.2	-22.1	0	52.52	-	-	74	-21.48	-	-	176	262	V
	* ** 17.79494	20.85	ADV	41.2	-22.1	.68	40.63	54	-13.37	-	-	-	-	176	262	V
7	2.48023	43.25	PK-U	32.3	-33.8	0	41.75	-	-	-	-	68.2	-26.45	312	196	V
2	6.59339	37.59	PK-U	35.5	-29	0	44.09	-	-	-	-	68.2	-24.11	284	301	H
3	7.13703	38.07	PK-U	35.7	-28.5	0	45.27	-	-	-	-	68.2	-22.93	345	119	H
9	7.13736	41.24	PK-U	35.7	-28.5	0	48.44	-	-	-	-	68.2	-19.76	228	152	V
4	10.3999	43.75	PK-U	37.5	-25.1	0	56.15	-	-	-	-	68.2	-12.05	83	106	H
10	10.40055	45.31	PK-U	37.5	-25.1	0	57.71	-	-	-	-	68.2	-10.49	338	103	V

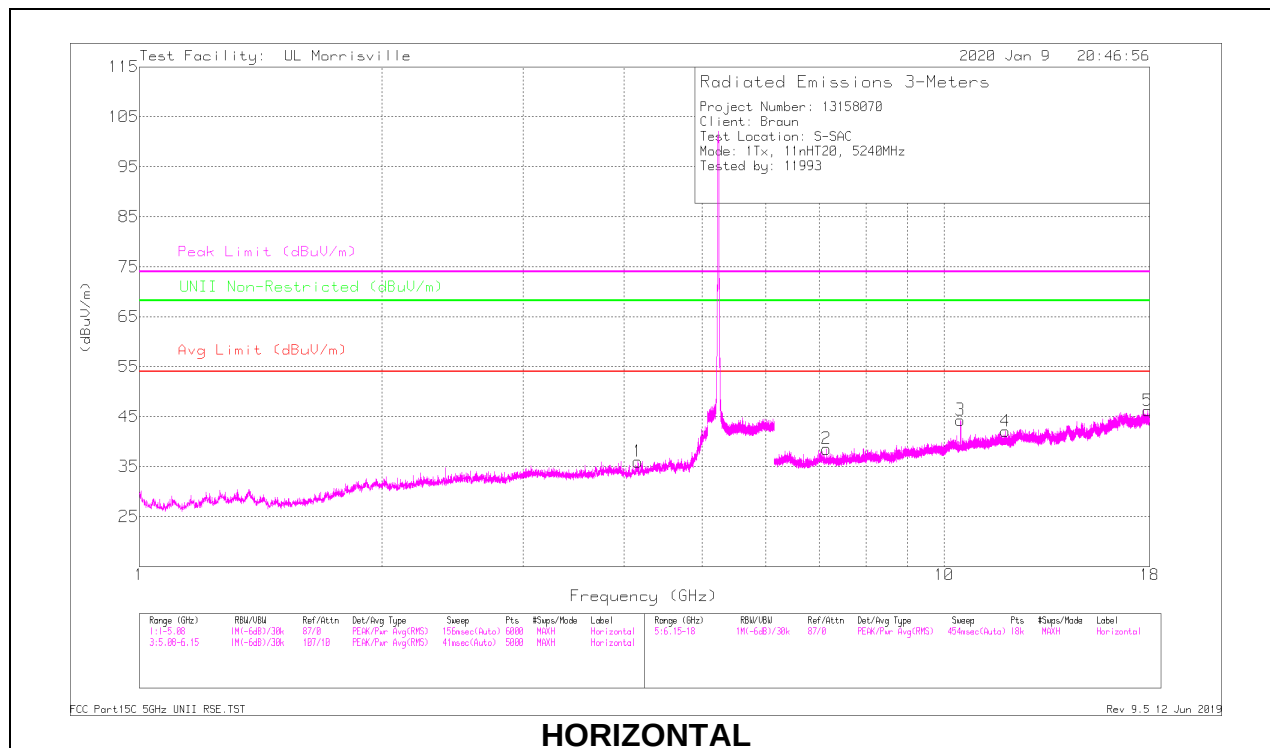
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

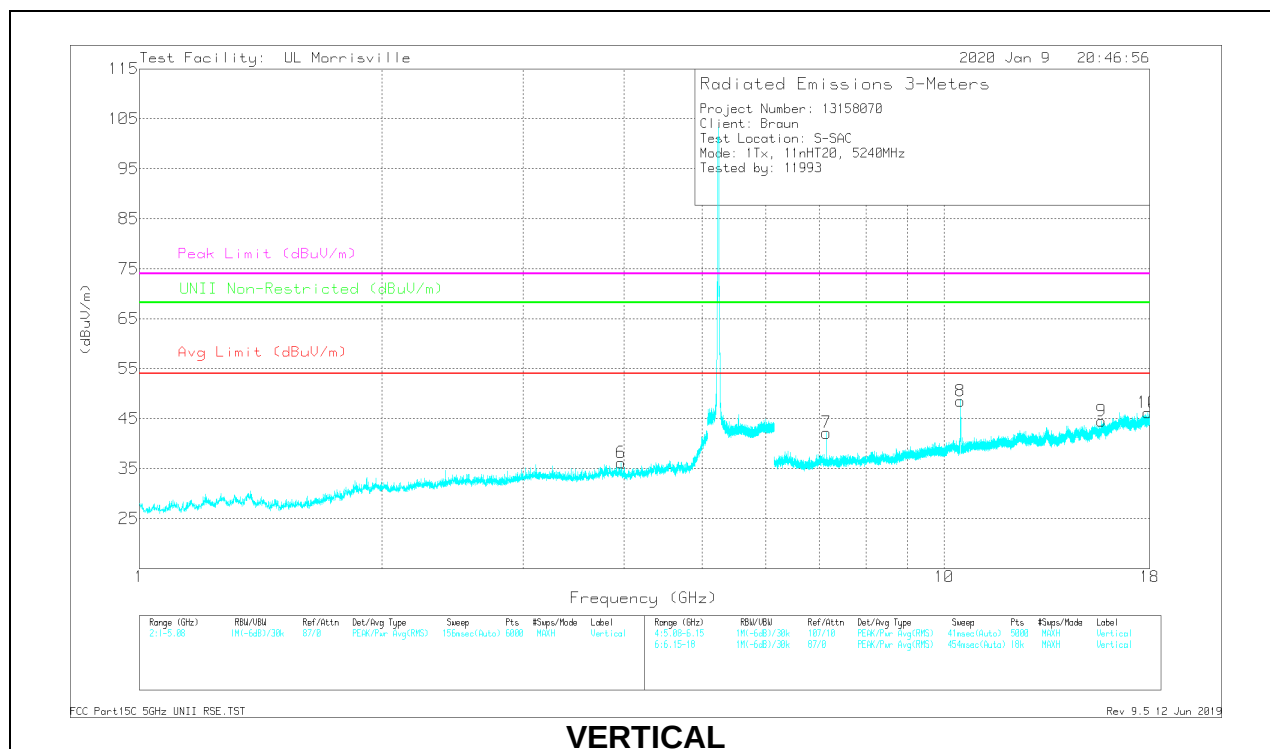
PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.16186	39.78	PK-U	33.4	-31.4	0	41.78	-	-	74	-32.22	-	-	57	388	H
	* ** 4.16191	26.74	ADV	33.4	-31.4	.68	29.42	54	-24.58	-	-	-	-	57	388	H
6	* ** 3.96486	41.59	PK-U	33.4	-31.6	0	43.39	-	-	74	-30.61	-	-	35	101	V
	* ** 3.96496	30.07	ADV	33.4	-31.6	.68	32.55	54	-21.45	-	-	-	-	35	101	V
4	* ** 11.91586	34.28	PK-U	38.6	-24.6	0	48.28	-	-	74	-25.72	-	-	172	325	H
	* ** 11.91664	20.66	ADV	38.6	-24.6	.68	35.34	54	-18.66	-	-	-	-	172	325	H
5	* ** 17.90665	33.41	PK-U	41.2	-21.9	0	52.71	-	-	74	-21.29	-	-	153	255	H
	* ** 17.90678	20.31	ADV	41.2	-21.9	.68	40.29	54	-13.71	-	-	-	-	153	255	H
9	* ** 15.6834	33.75	PK-U	40.2	-23.2	0	50.75	-	-	74	-23.25	-	-	340	275	V
	* ** 15.68261	20.88	ADV	40.2	-23.2	.68	38.56	54	-15.44	-	-	-	-	340	275	V
10	* ** 17.89916	34.21	PK-U	41.2	-21.9	0	53.51	-	-	74	-20.49	-	-	288	349	V
	* ** 17.89994	20.42	ADV	41.2	-21.9	.68	40.4	54	-13.6	-	-	-	-	288	349	V
7	7.13666	39.46	PK-U	35.7	-28.5	0	46.66	-	-	-	-	68.2	-21.54	240	109	V
2	7.14195	36.69	PK-U	35.7	-28.5	0	43.89	-	-	-	-	68.2	-24.31	355	381	H
3	10.47915	40.84	PK-U	37.5	-25.2	0	53.14	-	-	-	-	68.2	-15.06	77	111	H
8	10.48042	43.78	PK-U	37.5	-25.2	0	56.08	-	-	-	-	68.2	-12.12	334	107	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

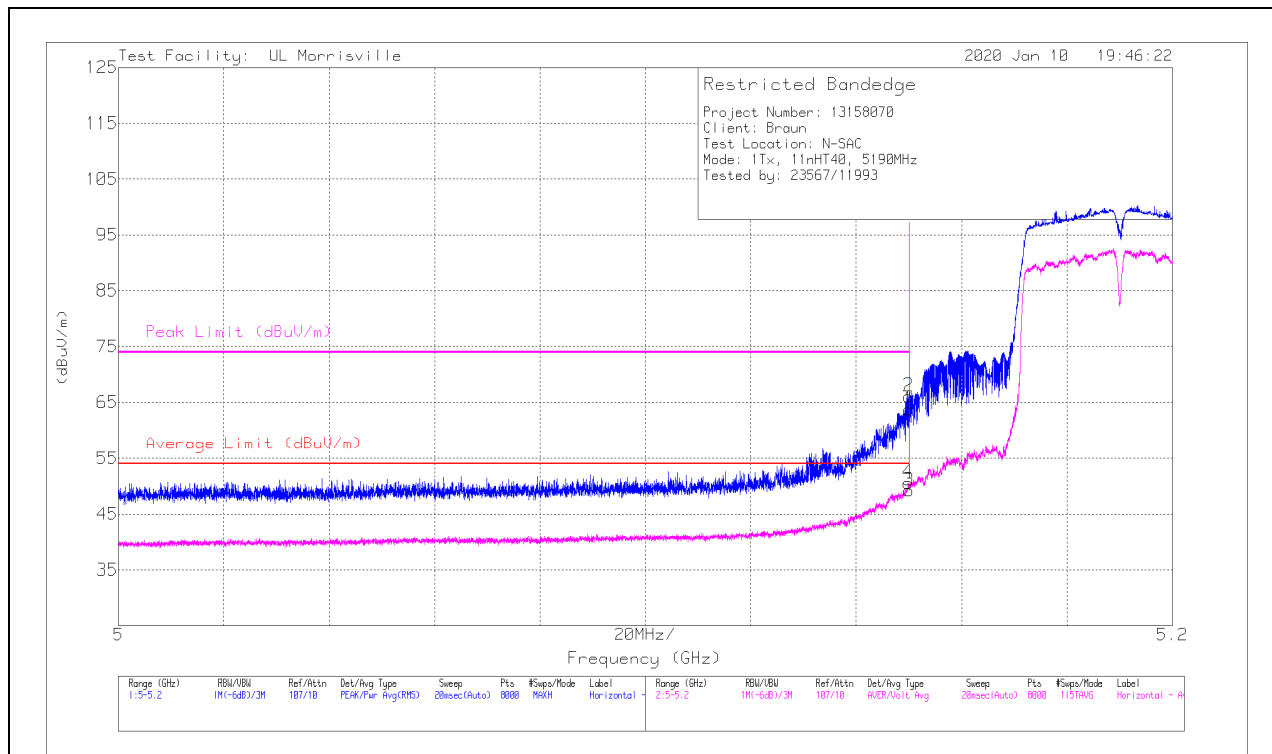
ADV - U-NII AD primary method, Linear Voltage Average

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	AT0067 AF (dBuV/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	52.23	Pk	34.1	-22.6	0	63.73	-	-	74	-10.27	201	199	H
2	* ** 5.14992	54.61	Pk	34.1	-22.6	0	66.11	-	-	74	-7.89	201	199	H
3	* ** 5.14999	36.47	ADV	34.1	-22.6	1.23	49.20	54	-4.80	-	-	201	199	H
4	* ** 5.14987	37.89	ADV	34.1	-22.6	1.23	50.62	54	-3.38	-	-	201	199	H

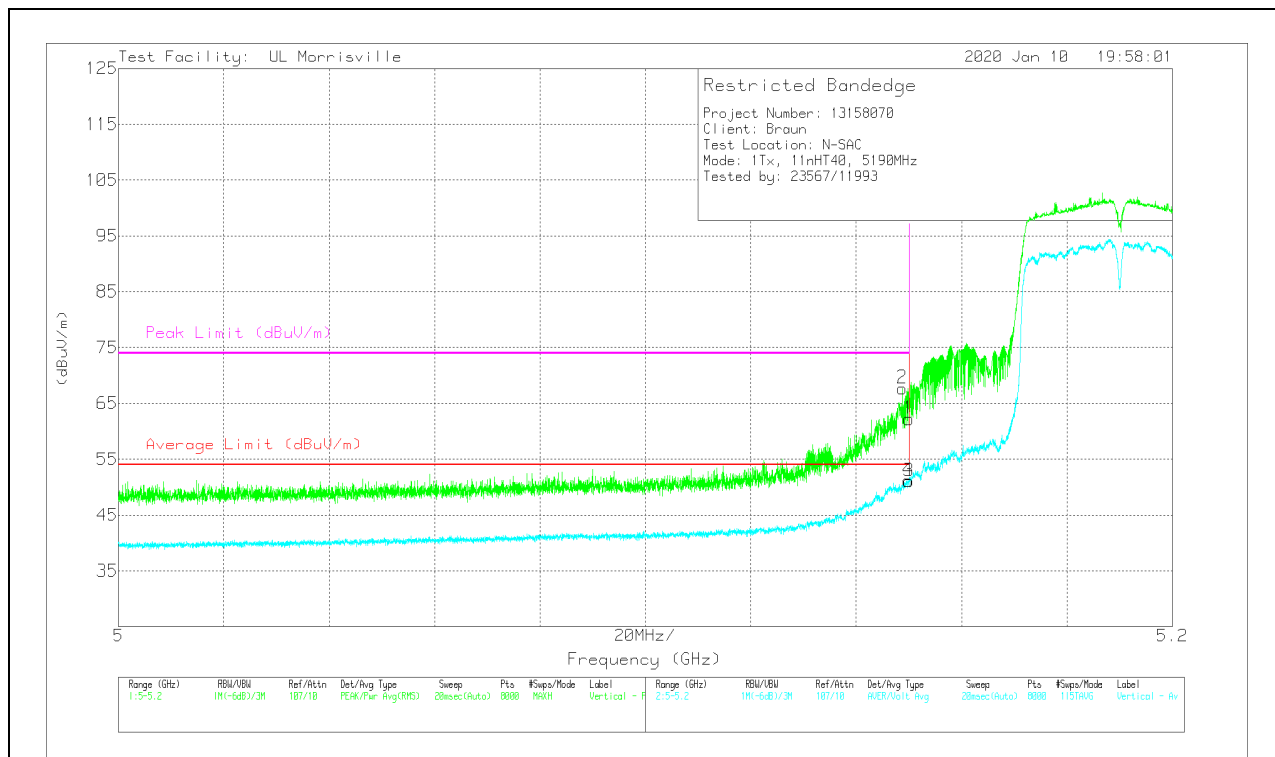
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AT0067 AF (dBUV/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	50.72	Pk	34.1	-22.6	0	62.22	-	-	74	-11.78	67	146	V
2	* ** 5.14872	56.22	Pk	34.1	-22.6	0	67.72	-	-	74	-6.28	67	146	V
3	* ** 5.14999	38.34	ADV	34.1	-22.6	1.23	51.07	54	-2.93	-	-	67	146	V
4	* ** 5.14987	38.42	ADV	34.1	-22.6	1.23	51.15	54	-2.85	-	-	67	146	V

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

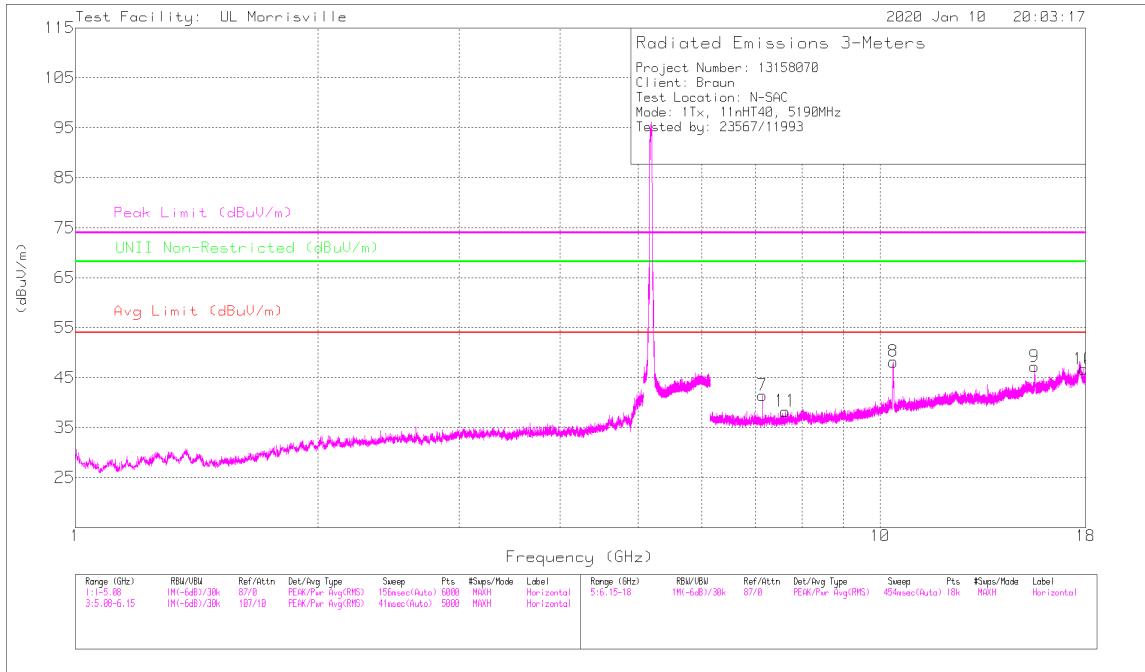
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

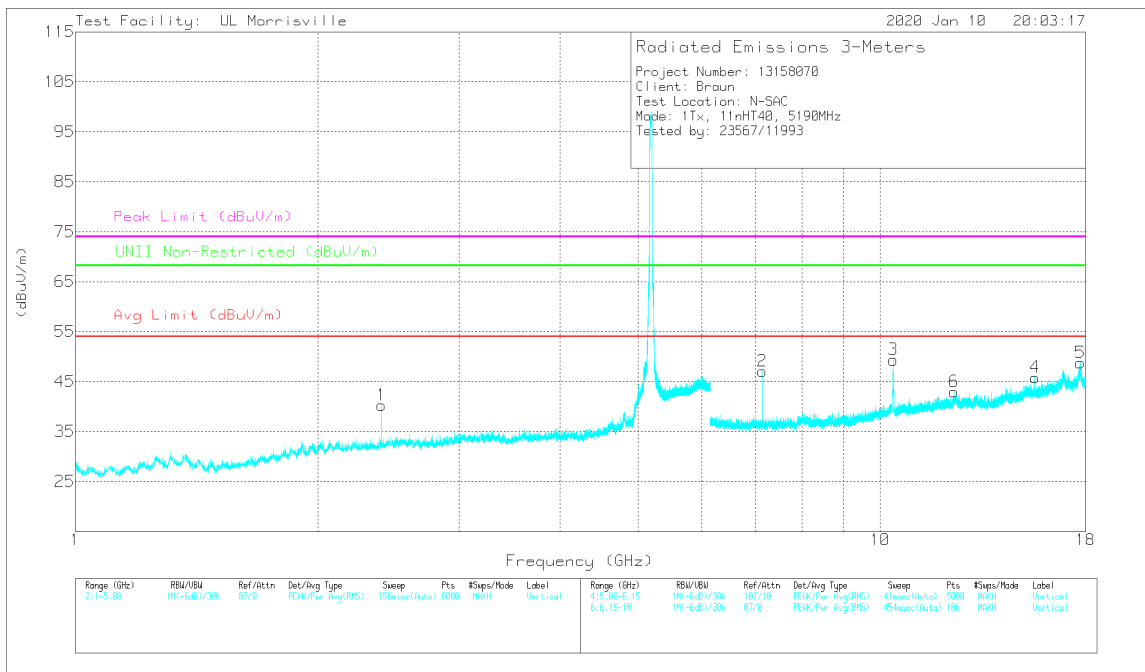
ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
9	*** 15.56357	39.09	PK-U	40.2	-25.6	0	53.69	-	-	74	-20.31	-	-	87	189	H
	** 15.5626	25.45	ADV	40.2	-25.6	1.23	41.28	54	-12.72	-	-	-	-	87	189	H
10	*** 17.90655	35.65	PK-U	41.1	-24.3	0	52.45	-	-	74	-21.55	-	-	274	399	H
	*** 17.90672	22.59	ADV	41.1	-24.3	1.23	40.62	54	-13.38	-	-	-	-	274	399	H
11	*** 7.62606	38.41	PK-U	35.7	-29.4	0	44.71	-	-	74	-29.29	-	-	100	312	H
	*** 7.62543	24.62	ADV	35.7	-29.4	1.23	32.15	54	-21.85	-	-	-	-	100	312	H
4	*** 15.57569	40.89	PK-U	40.2	-25.7	0	55.39	-	-	74	-18.61	-	-	24	110	V
	*** 15.57574	26.44	ADV	40.2	-25.7	1.23	42.17	54	-11.83	-	-	-	-	24	110	V
5	*** 17.74017	34.29	PK-U	41.1	-20.4	0	54.99	-	-	74	-19.01	-	-	239	236	V
	*** 17.73912	20.65	ADV	41.1	-20.4	1.23	42.58	54	-11.42	-	-	-	-	239	236	V
6	*** 12.3625	35.5	PK-U	38.8	-25.4	0	48.9	-	-	74	-25.1	-	-	259	345	V
	*** 12.36161	21.99	ADV	38.8	-25.4	1.23	36.62	54	-17.38	-	-	-	-	259	345	V
1	2.40187	45.03	PK-U	32	-34.2	0	42.83	-	-	-	-	68.2	-25.37	214	128	V
7	7.13696	41.8	PK-U	35.7	-30.2	0	47.3	-	-	-	-	68.2	-20.9	236	332	H
2	7.13701	45.47	PK-U	35.7	-30.2	0	50.97	-	-	-	-	68.2	-17.23	179	102	V
8	10.37851	42.78	PK-U	37.5	-26	0	54.28	-	-	-	-	68.2	-13.92	110	102	H
3	10.38087	46.38	PK-U	37.5	-26	0	57.88	-	-	-	-	68.2	-10.32	182	103	V

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

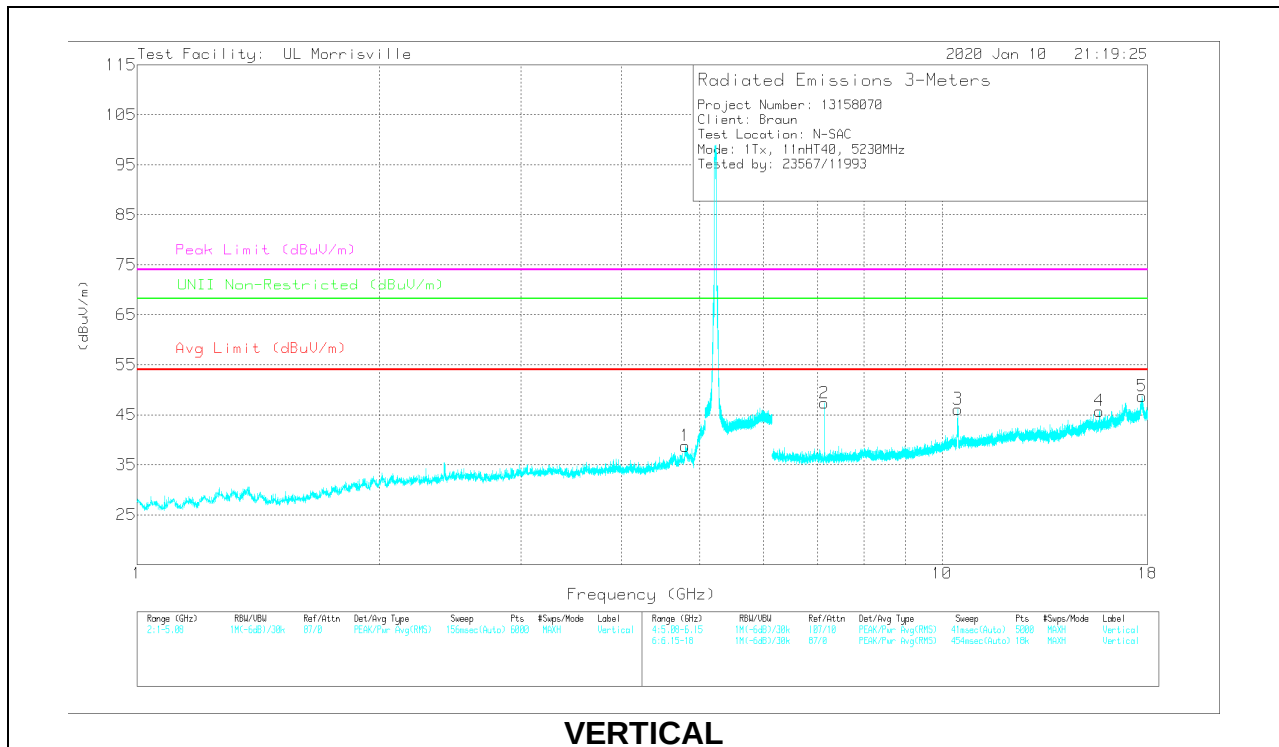
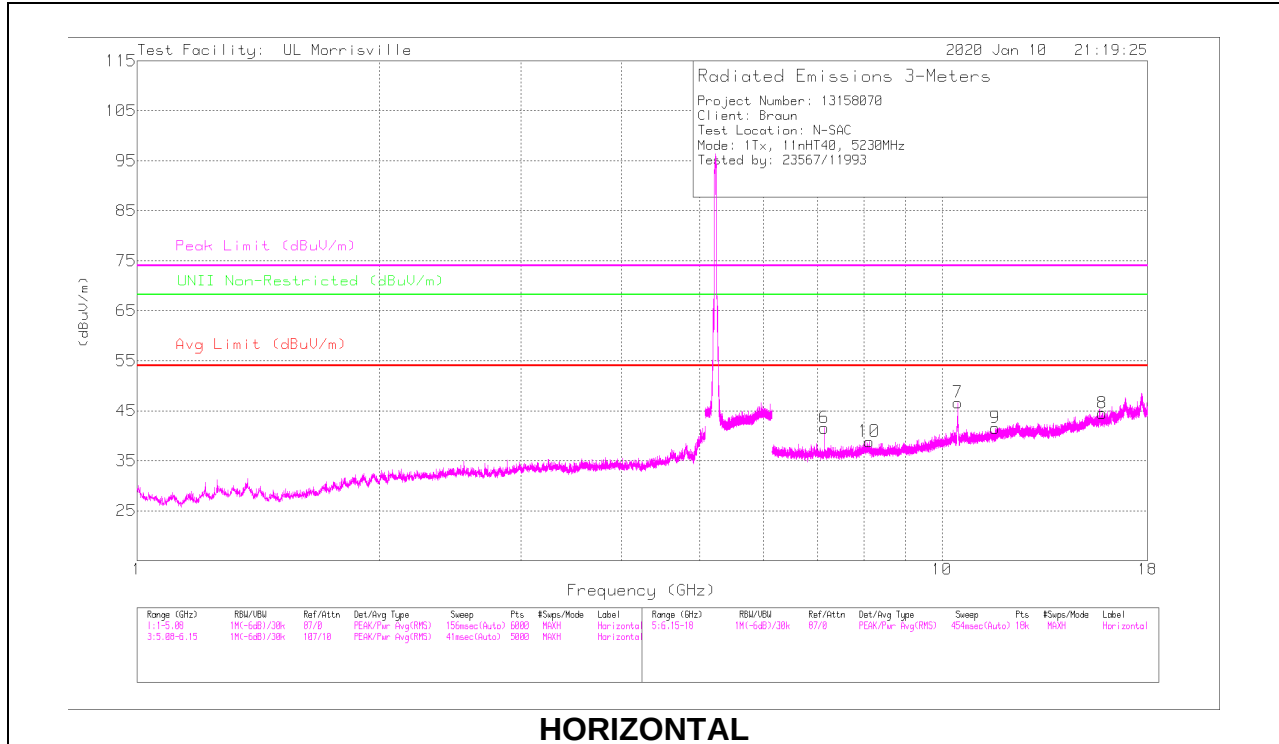
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

PK - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	*** 4.79837	41.97	PK-U	34.1	-31	0	45.07	-	-	74	-28.93	-	-	113	170	V
	** 4.79926	28.51	ADV	34.1	-30.9	1.23	32.94	54	-21.06	-	-	-	-	113	170	V
8	*** 15.81663	36.02	PK-U	40.2	-25.5	0	50.72	-	-	74	-23.28	-	-	114	153	H
	*** 15.81698	22.87	ADV	40.2	-25.5	1.23	38.8	54	-15.2	-	-	-	-	114	153	H
9	*** 11.64268	35.44	PK-U	38.3	-26.3	0	47.44	-	-	74	-26.56	-	-	52	372	H
	*** 11.64264	22.21	ADV	38.3	-26.3	1.23	35.44	54	-18.56	-	-	-	-	52	372	H
10	*** 8.11984	38.26	PK-U	35.8	-28.6	0	45.46	-	-	74	-28.54	-	-	321	155	H
	*** 8.11926	24.56	ADV	35.8	-28.6	1.23	32.99	54	-21.01	-	-	-	-	321	155	H
4	*** 15.68832	40.2	PK-U	40.1	-25.8	0	54.5	-	-	74	-19.5	-	-	27	114	V
	*** 15.68831	26.33	ADV	40.1	-25.8	1.23	41.86	54	-12.14	-	-	-	-	27	114	V
5	*** 17.73051	34.35	PK-U	41.1	-20.3	0	55.15	-	-	74	-18.85	-	-	77	260	V
	*** 17.7302	20.78	ADV	41.1	-20.3	1.23	42.81	54	-11.19	-	-	-	-	77	260	V
6	7.13689	45.65	PK-U	35.7	-30.2	0	51.15	-	-	-	-	68.2	-17.05	176	102	H
2	7.1371	42.57	PK-U	35.7	-30.2	0	48.07	-	-	-	-	68.2	-20.13	26	219	V
7	10.45851	42.87	PK-U	37.5	-27.1	0	53.27	-	-	-	-	68.2	-14.93	194	143	H
3	10.45851	43	PK-U	37.5	-27.1	0	53.4	-	-	-	-	68.2	-14.8	335	109	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

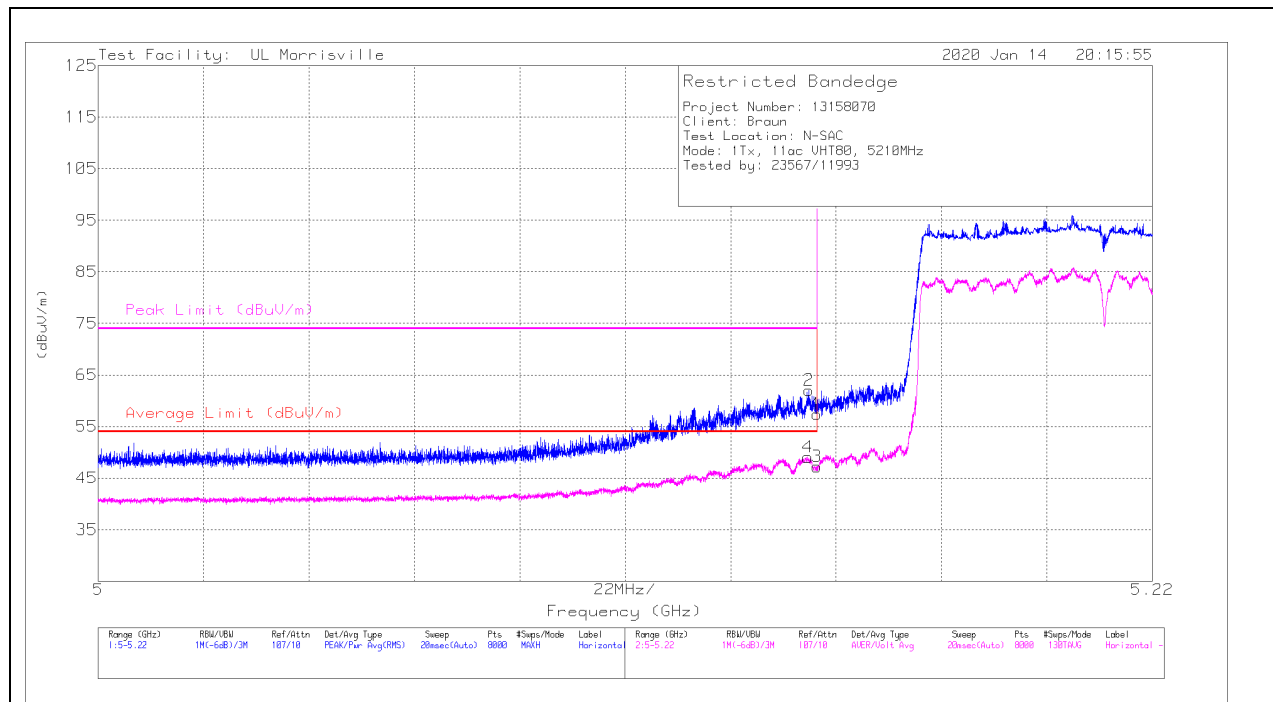
Pk - Peak detector

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	AT0067 AF (dBuV/m)	Amp/Cbl/Fitr/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	45.91	Pk	34.1	-22.6	0	57.41	-	-	74	-16.59	13	121	H
2	* ** 5.14835	50.52	Pk	34.1	-22.6	0	62.02	-	-	74	-11.98	13	121	H
3	* ** 5.14997	33.44	ADV	34.1	-22.6	2.3	47.24	54	-6.76	-	-	13	121	H
4	* ** 5.1481	35.26	ADV	34.1	-22.6	2.3	49.06	54	-4.94	-	-	13	121	H

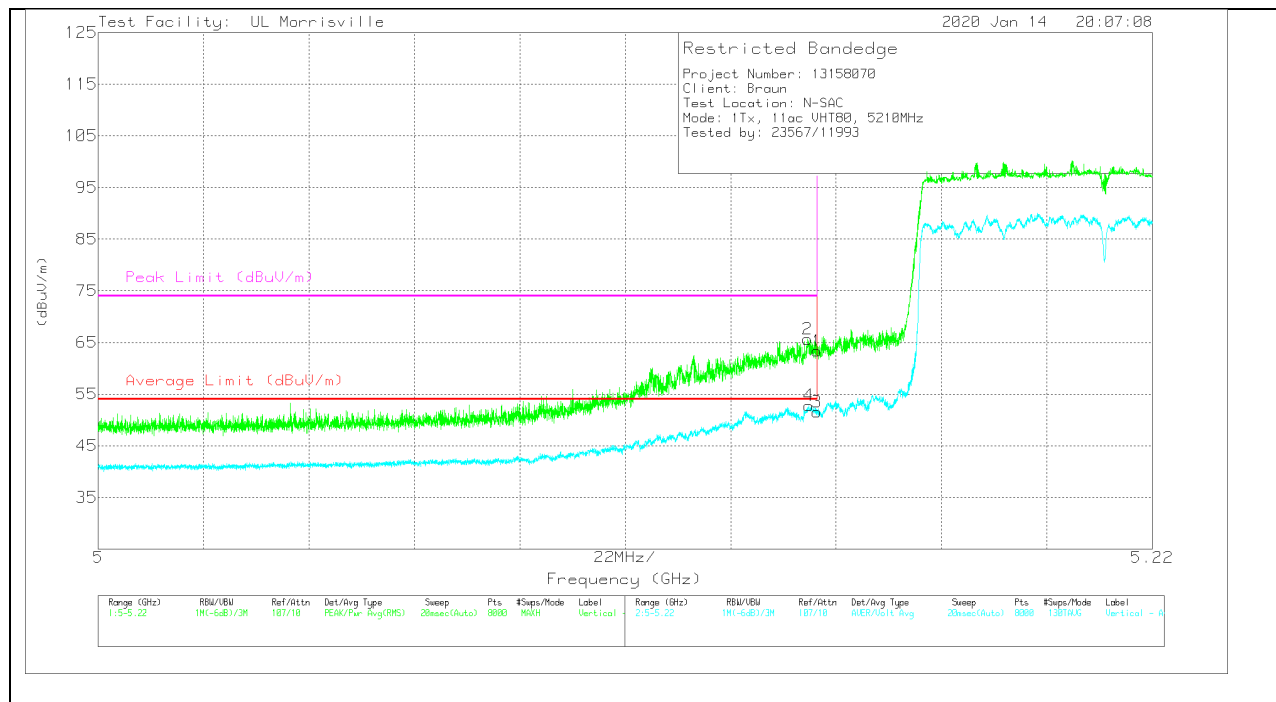
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	51.84	Pk	34.1	-22.6	0	63.34	-	-	74	-10.66	45	127	V
2	* ** 5.14808	54.13	Pk	34.1	-22.6	0	65.63	-	-	74	-8.37	45	127	V
3	* ** 5.14997	37.71	ADV	34.1	-22.6	2.3	51.51	54	-2.49	-	-	45	127	V
4	* ** 5.1483	38.98	ADV	34.1	-22.6	2.3	52.78	54	-1.22	-	-	45	127	V

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

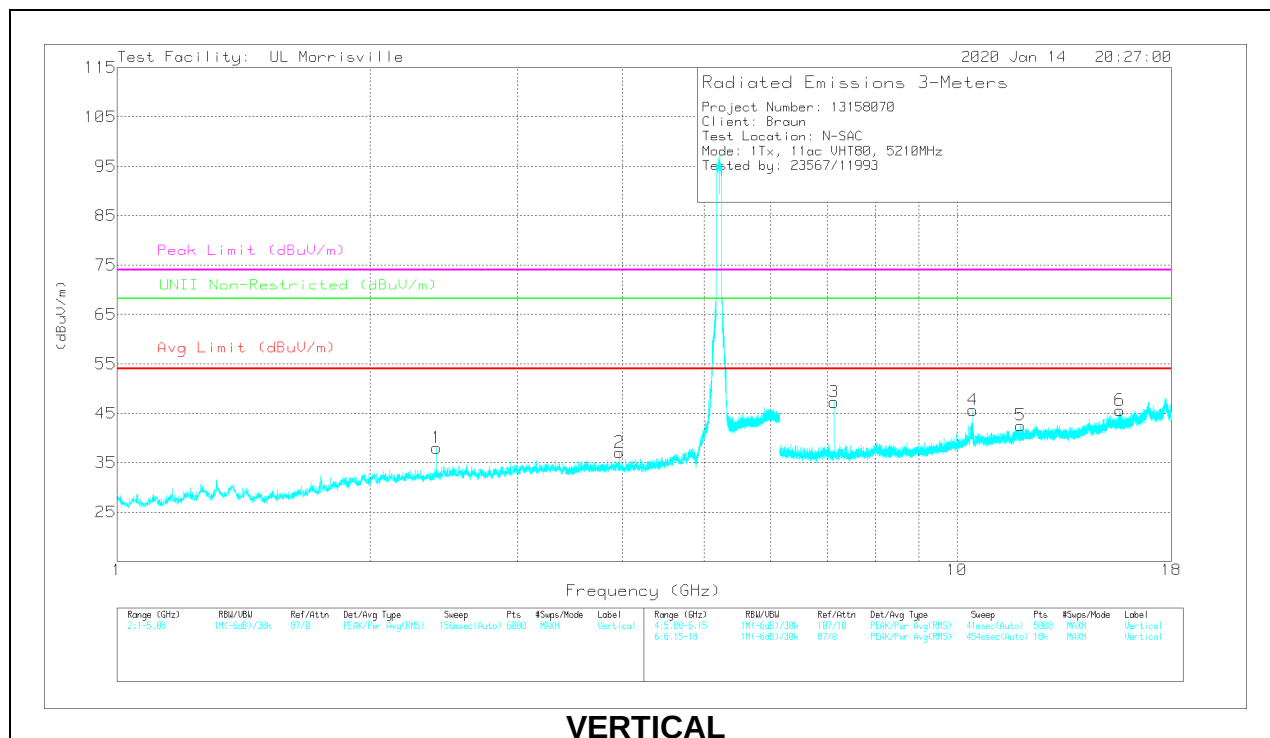
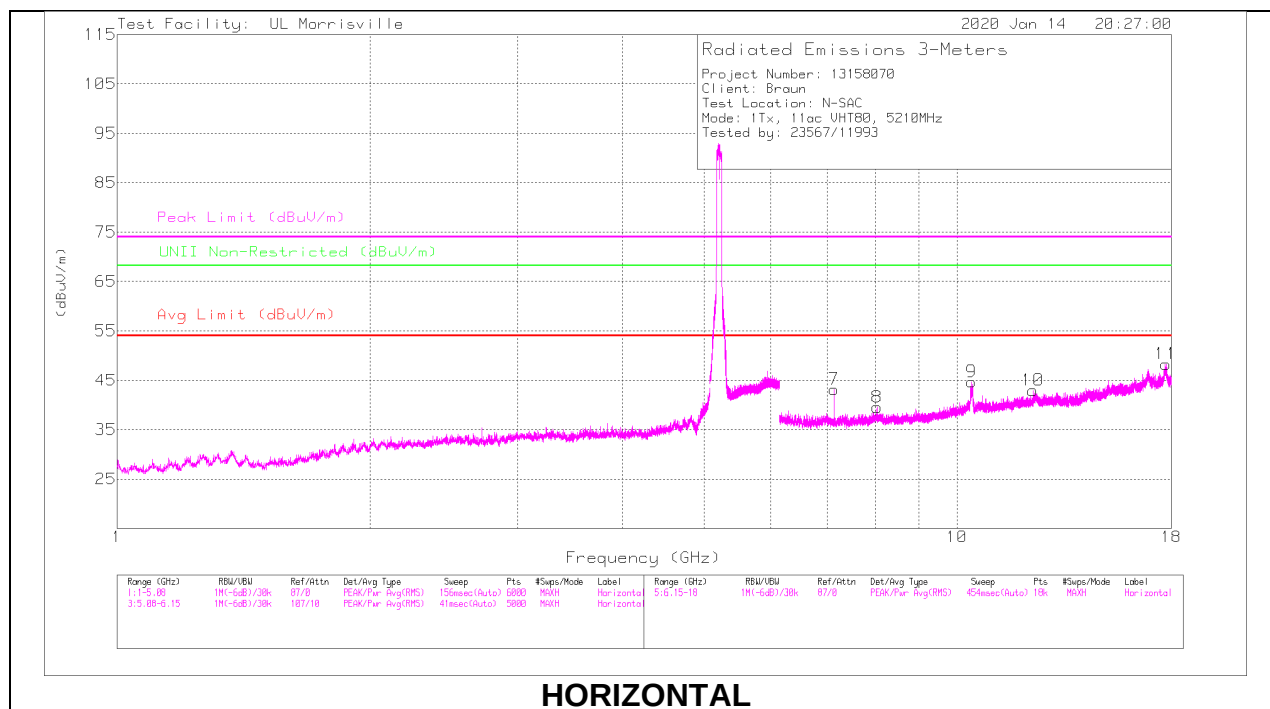
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
2	*** 3.96522	46.34	PK-U	33.4	-32.5	0	47.24	-	-	74	-26.76	-	-	39	171	V
	*** 3.96504	32.72	ADV	33.4	-32.5	2.3	35.92	54	-18.08	-	-	-	-	39	171	V
8	*** 8.03529	36.79	PK-U	35.8	-27.9	0	44.69	-	-	74	-29.31	-	-	2	251	H
	*** 8.03503	23.86	ADV	35.8	-27.9	2.3	34.06	54	-19.94	-	-	-	-	2	251	H
10	*** 12.31427	36.06	PK-U	38.8	-26.3	0	48.56	-	-	74	-25.44	-	-	74	219	H
	*** 12.31466	22.47	ADV	38.8	-26.3	2.3	37.27	54	-16.73	-	-	-	-	74	219	H
11	*** 17.73651	33.71	PK-U	41.1	-20.3	0	54.51	-	-	74	-19.49	-	-	295	297	H
	*** 17.73584	20.36	ADV	41.1	-20.3	2.3	43.46	54	-10.54	-	-	-	-	295	297	H
5	*** 11.9022	35.44	PK-U	38.6	-26.2	0	47.84	-	-	74	-26.16	-	-	122	291	V
	*** 11.90268	22.16	ADV	38.6	-26.2	2.3	36.86	54	-17.14	-	-	-	-	122	291	V
6	*** 15.62723	38.93	PK-U	40.2	-26.7	0	52.43	-	-	74	-21.57	-	-	333	373	V
	*** 15.62706	24.53	ADV	40.2	-26.7	2.3	40.33	54	-13.67	-	-	-	-	333	373	V
1	2.40172	48.66	PK-U	32	-34.2	0	46.46	-	-	-	-	68.2	-21.74	213	209	V
7	7.13689	42.25	PK-U	35.7	-30.2	0	47.75	-	-	-	-	68.2	-20.45	256	123	H
3	7.13696	45.5	PK-U	35.7	-30.2	0	51	-	-	-	-	68.2	-17.2	168	103	V
9	10.41351	42.39	PK-U	37.5	-26.7	0	53.19	-	-	-	-	68.2	-15.01	182	143	H
4	10.44134	39.52	PK-U	37.5	-27	0	50.02	-	-	-	-	68.2	-18.18	196	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

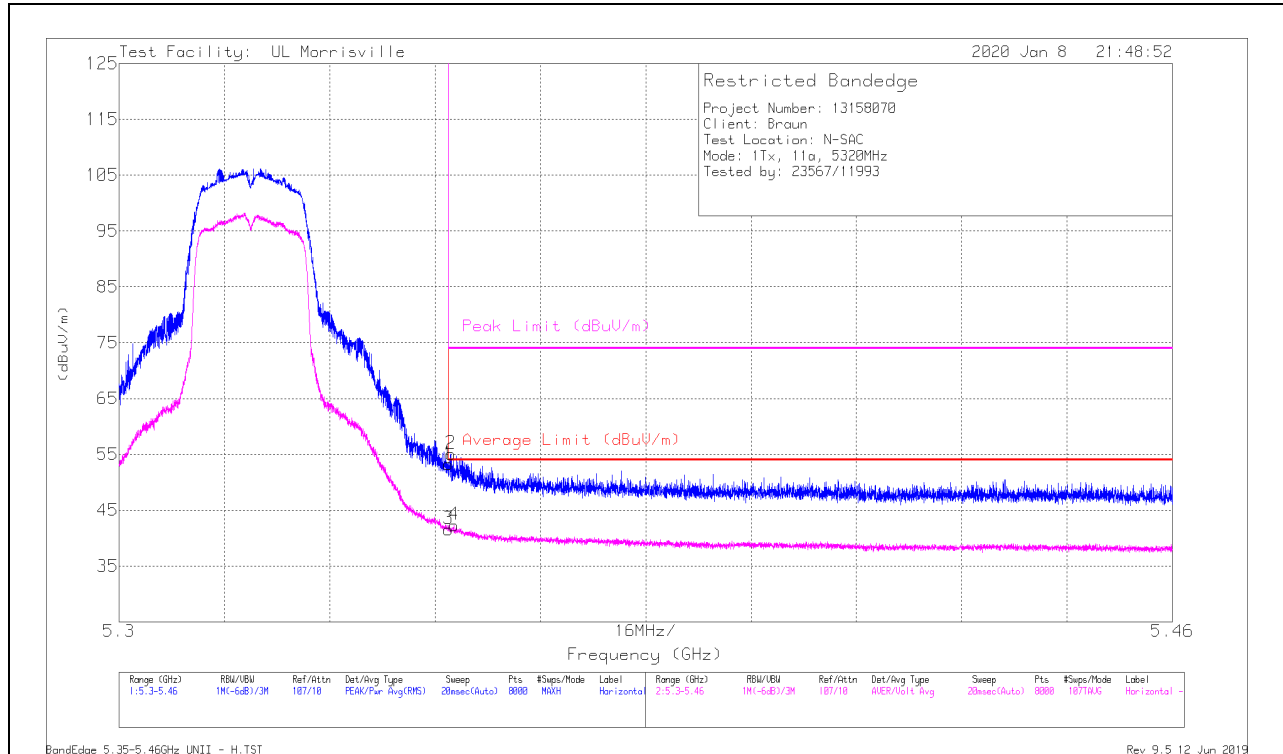
Pk - Peak detector

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	AT0067 AF (dBuV/m)	Amp/Cbl/Fitr/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	41.84	Pk	34.4	-23	0	53.24	-	-	74	-20.76	6	106	H
2	* ** 5.35037	43.69	Pk	34.4	-23	0	55.09	-	-	74	-18.91	6	106	H
3	* ** 5.35001	29.56	ADV	34.4	-23	.64	41.6	54	-12.4	-	-	6	106	H
4	* ** 5.35087	30.29	ADV	34.4	-23	.64	42.33	54	-11.67	-	-	6	106	H

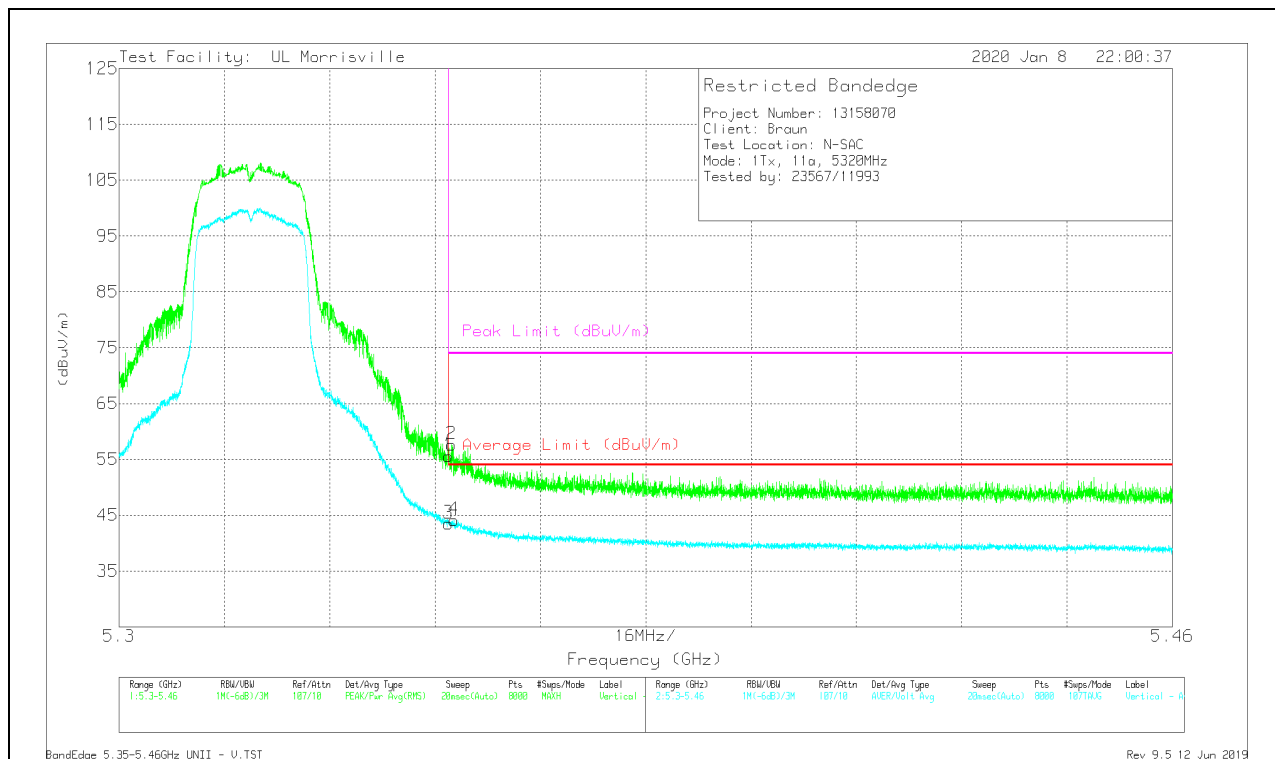
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	44.22	Pk	34.4	-23	0	55.62	-	-	74	-18.38	80	123	V
2	* ** 5.35049	46.28	Pk	34.4	-23	0	57.68	-	-	74	-16.32	80	123	V
3	* ** 5.35001	31.48	ADV	34.4	-23	.64	43.52	54	-10.48	-	-	80	123	V
4	* ** 5.35091	32.11	ADV	34.4	-23	.64	44.15	54	-9.85	-	-	80	123	V

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

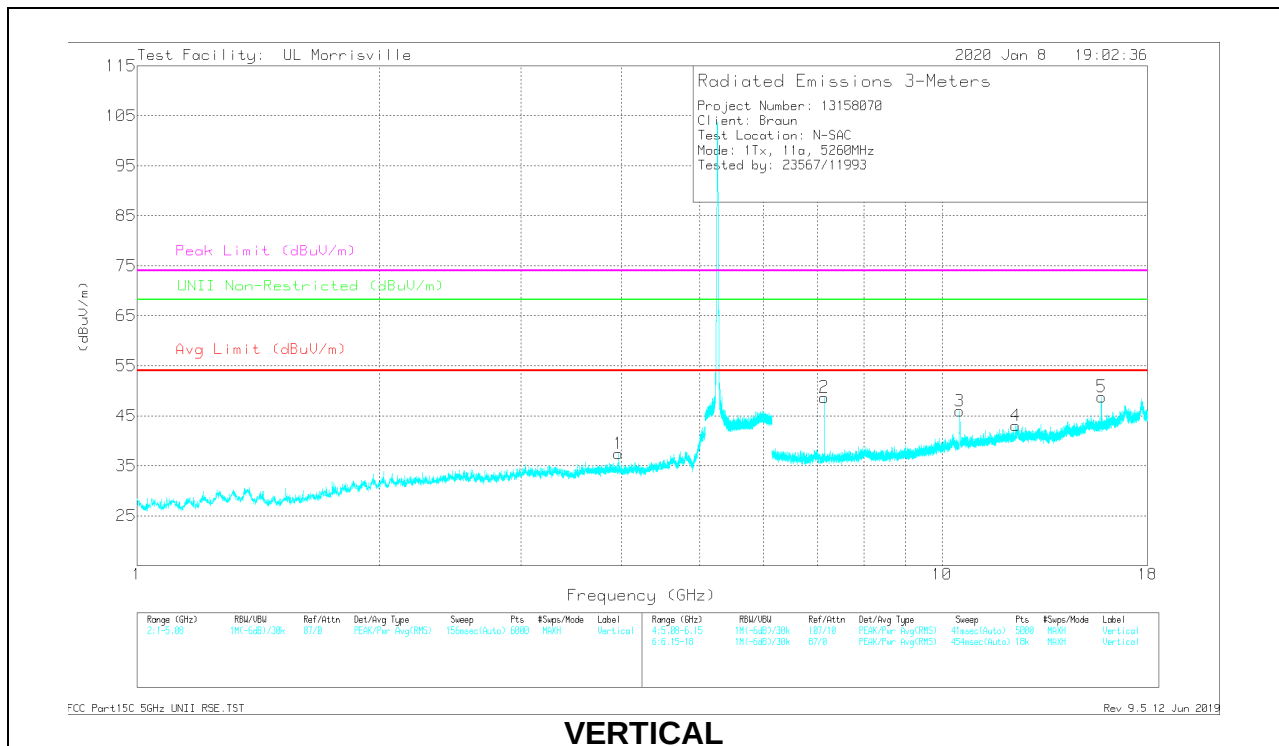
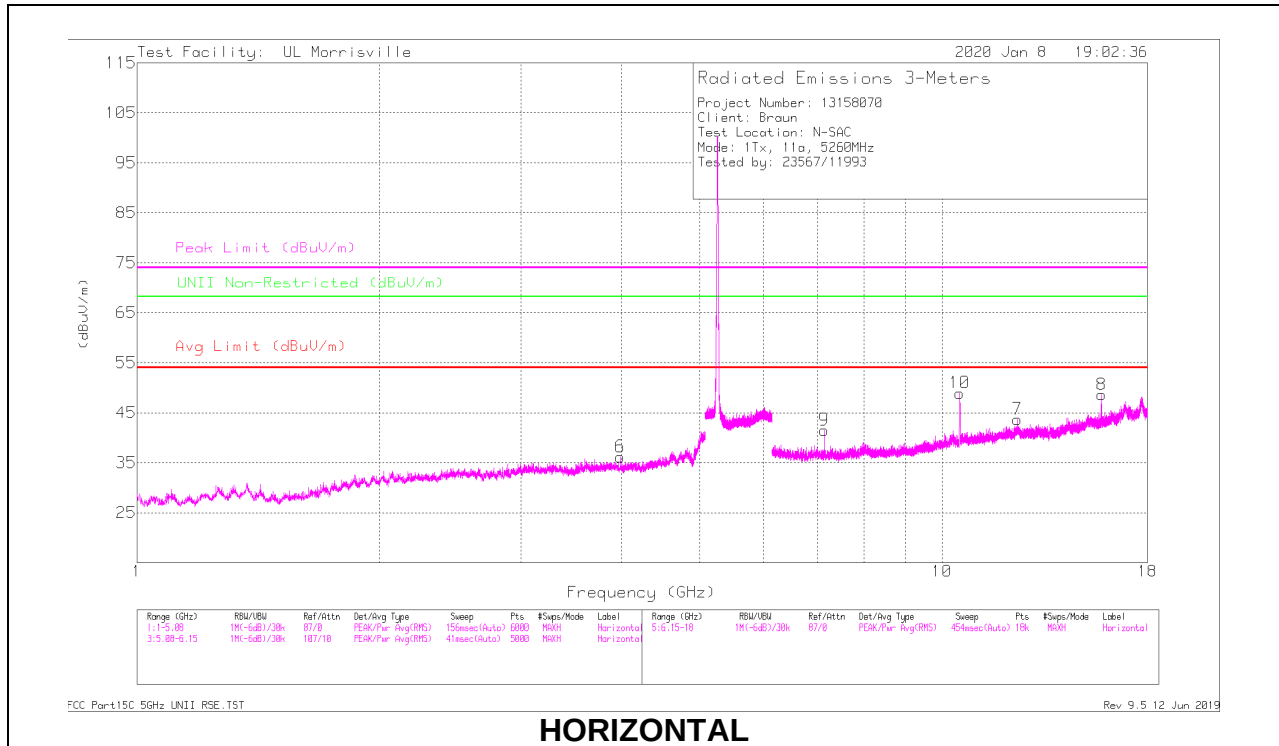
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
6	*** 3.98091	40.75	PK-U	33.4	-32.4	0	41.75	-	-	74	-32.25	-	-	32	312	H
	*** 3.98108	27.53	ADV	33.4	-32.4	.64	29.17	54	-24.83	-	-	-	-	32	312	H
1	*** 3.96513	45.3	PK-U	33.4	-32.5	0	46.2	-	-	74	-27.8	-	-	42	198	V
	*** 3.96497	32.57	ADV	33.4	-32.5	.64	34.11	54	-19.89	-	-	-	-	42	198	V
7	*** 12.40616	34.83	PK-U	38.8	-24.9	0	48.73	-	-	74	-25.27	-	-	301	174	H
	*** 12.40571	21.93	ADV	38.8	-24.9	.64	36.47	54	-17.53	-	-	-	-	301	174	H
8	*** 15.78286	41.29	PK-U	40.2	-25.6	0	55.89	-	-	74	-18.11	-	-	40	102	H
	*** 15.78231	27.26	ADV	40.2	-25.6	.64	42.5	54	-11.5	-	-	-	-	40	102	H
4	*** 12.34109	35.75	PK-U	38.8	-25.7	0	48.85	-	-	74	-25.15	-	-	37	255	V
	*** 12.34126	22.47	ADV	38.8	-25.7	.64	36.21	54	-17.79	-	-	-	-	37	255	V
5	*** 15.78382	43.76	PK-U	40.2	-25.6	0	58.36	-	-	74	-15.64	-	-	23	111	V
	*** 15.78341	28.5	ADV	40.2	-25.6	.64	43.74	54	-10.26	-	-	-	-	23	111	V
9	7.13694	46.39	PK-U	35.7	-30.2	0	51.89	-	-	-	-	68.2	-16.31	179	103	H
2	7.13708	42.34	PK-U	35.7	-30.2	0	47.84	-	-	-	-	68.2	-20.36	266	380	V
10	10.51633	43.12	PK-U	37.5	-26.8	0	53.82	-	-	-	-	68.2	-14.38	335	116	H
3	10.51659	45.4	PK-U	37.5	-26.8	0	56.1	-	-	-	-	68.2	-12.1	50	104	V

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

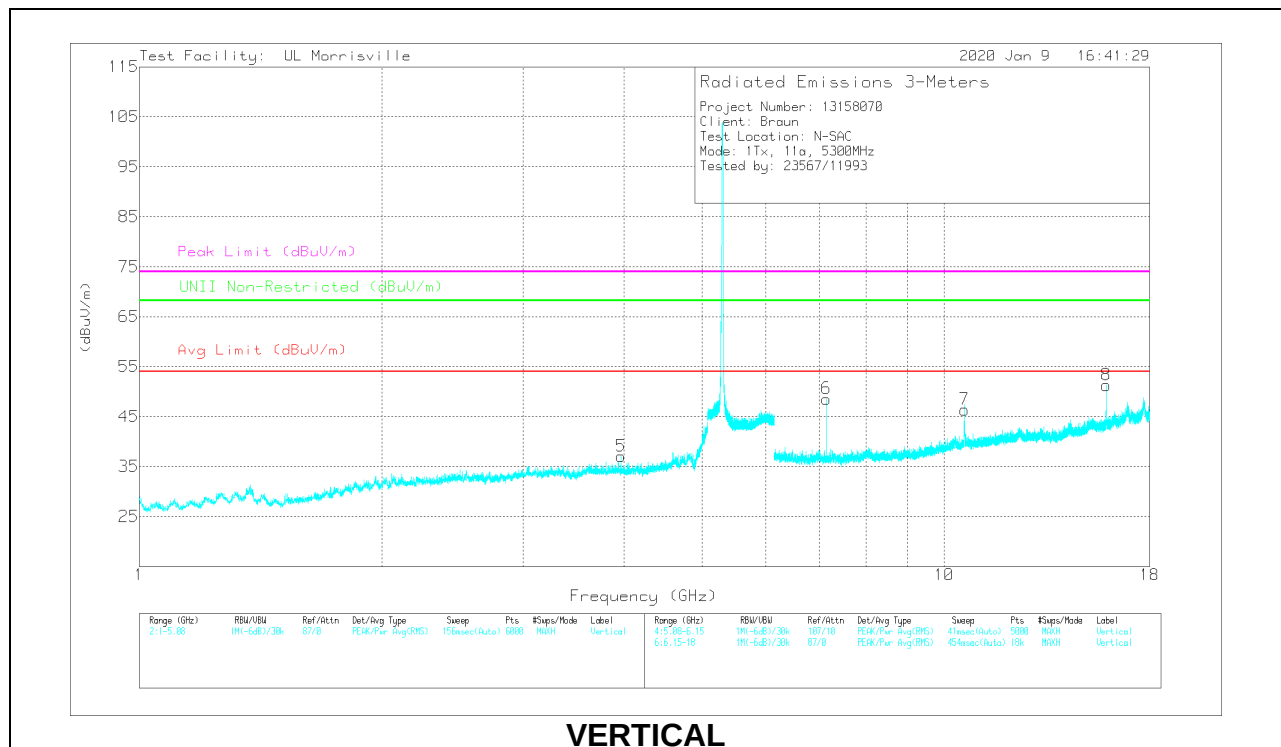
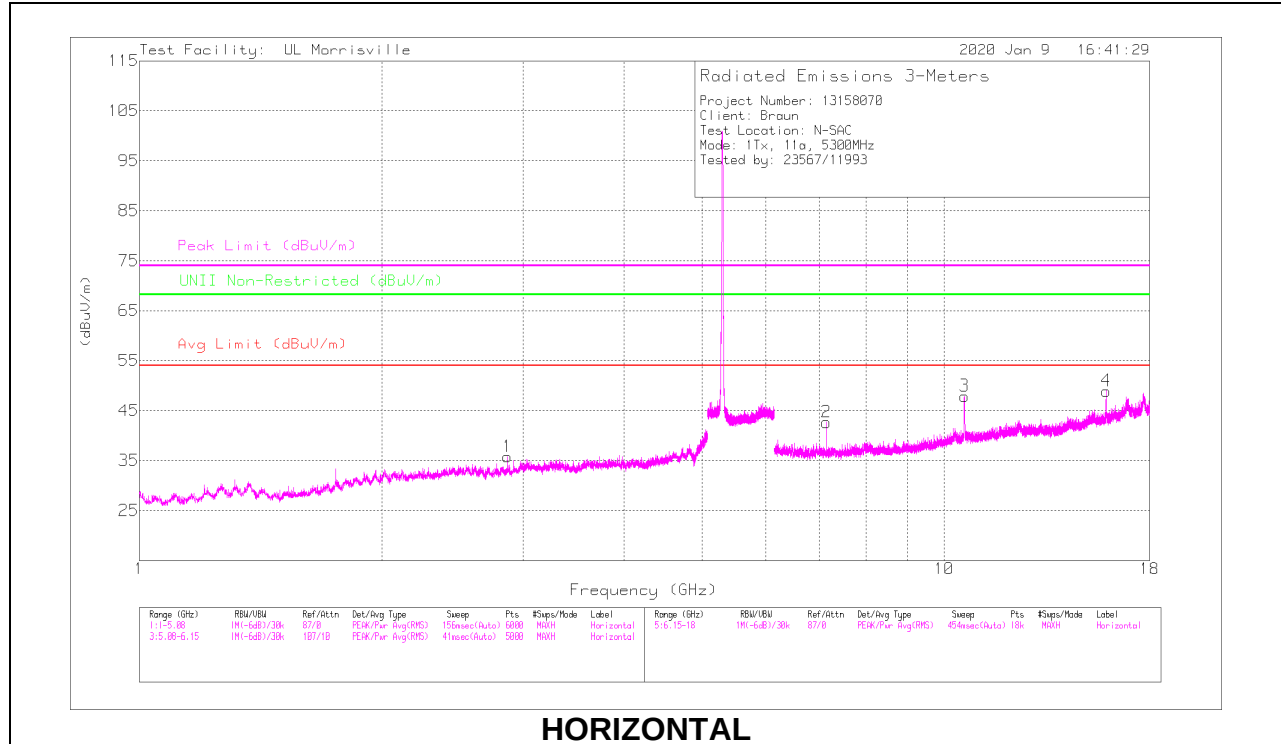
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

Makrer	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	*** 2.86876	42.35	PK-U	32.5	-33.9	0	40.95	-	-	74	-33.05	-	-	95	321	H
	** 2.86896	28.88	ADV	32.5	-33.9	.64	28.12	54	-25.88	-	-	-	-	95	321	H
5	*** 3.96486	47.09	PK-U	33.4	-32.5	0	47.99	-	-	74	-26.01	-	-	47	182	V
	*** 3.965	32.75	ADV	33.4	-32.5	.64	34.29	54	-19.71	-	-	-	-	47	182	V
3	*** 10.60096	44.75	PK-U	37.6	-25.6	0	56.75	-	-	74	-17.25	-	-	56	102	H
	*** 10.60125	30.7	ADV	37.6	-25.6	.64	43.34	54	-10.66	-	-	-	-	56	102	H
4	*** 15.89982	43.24	PK-U	40.3	-26	0	57.54	-	-	74	-16.46	-	-	282	116	H
	*** 15.89962	28.85	ADV	40.3	-26	.64	43.79	54	-10.21	-	-	-	-	282	116	H
7	*** 10.60083	42.21	PK-U	37.6	-25.6	0	54.21	-	-	74	-19.79	-	-	233	111	V
	*** 10.60122	28.15	ADV	37.6	-25.6	.64	40.79	54	-13.21	-	-	-	-	233	111	V
8	*** 15.90382	44.02	PK-U	40.3	-26.1	0	58.22	-	-	74	-15.78	-	-	8	102	V
	*** 15.90343	28.93	ADV	40.3	-26.1	.64	43.77	54	-10.23	-	-	-	-	8	102	V
2	7.13683	42.06	PK-U	35.7	-30.2	0	47.56	-	-	-	-	68.2	-20.64	277	104	H
6	7.13692	45.69	PK-U	35.7	-30.2	0	51.19	-	-	-	-	68.2	-17.01	172	102	V

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

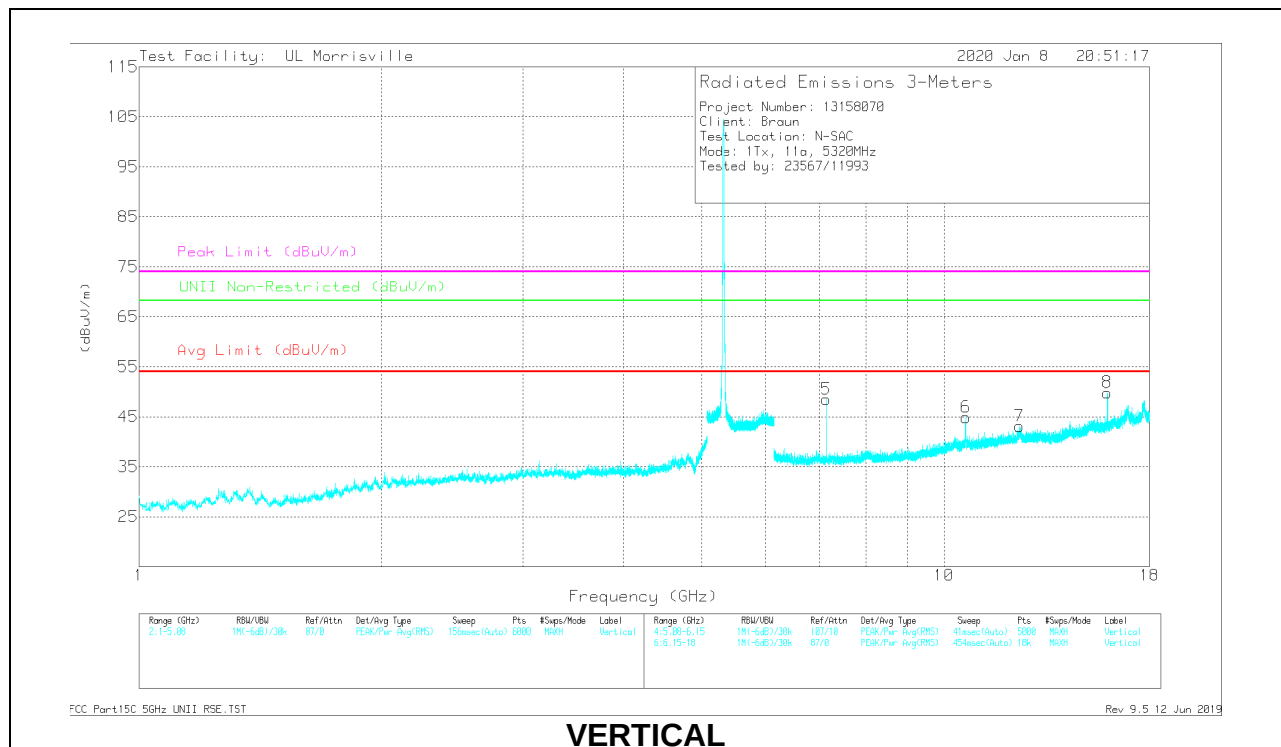
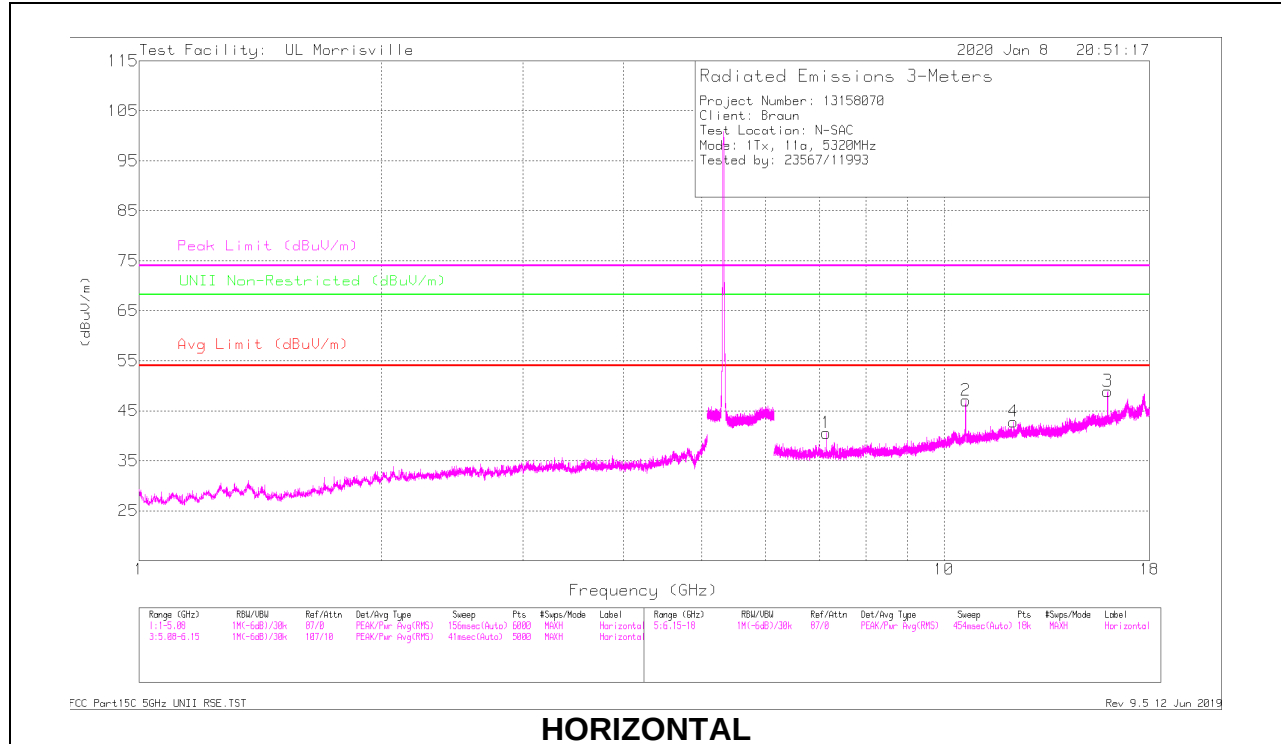
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
2	*** 10.64606	43.25	PK-U	37.7	-25.7	0	55.25	-	-	74	-18.75	-	-	56	117	H
	*** 10.64585	28.95	ADV	37.7	-25.7	.64	41.59	54	-12.41	-	-	-	-	56	117	H
3	*** 15.96628	41.97	PK-U	40.4	-27.2	0	55.17	-	-	74	-18.83	-	-	351	102	H
	*** 15.96637	28.22	ADV	40.4	-27.2	.64	42.06	54	-11.94	-	-	-	-	351	102	H
4	*** 12.19368	35.72	PK-U	38.8	-26.3	0	48.22	-	-	74	-25.78	-	-	195	265	H
	*** 12.1937	22.38	ADV	38.8	-26.3	.64	35.52	54	-18.48	-	-	-	-	195	265	H
6	*** 10.64174	40.36	PK-U	37.7	-25.7	0	52.36	-	-	74	-21.64	-	-	232	138	V
	*** 10.64114	26.41	ADV	37.7	-25.7	.64	39.05	54	-14.95	-	-	-	-	232	138	V
7	*** 12.40751	35.16	PK-U	38.8	-24.8	0	49.16	-	-	74	-24.84	-	-	111	150	V
	*** 12.40657	22.21	ADV	38.8	-24.9	.64	36.75	54	-17.25	-	-	-	-	111	150	V
8	*** 15.96385	46.33	PK-U	40.4	-27.1	0	59.63	-	-	74	-14.37	-	-	11	115	V
	*** 15.96332	31.82	ADV	40.4	-27.1	.64	45.76	54	-8.24	-	-	-	-	11	115	V
1	7.13707	46.73	PK-U	35.7	-30.2	0	52.23	-	-	-	-	68.2	-15.97	175	106	H
5	7.13725	42.79	PK-U	35.7	-30.2	0	48.29	-	-	-	-	68.2	-19.91	29	279	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

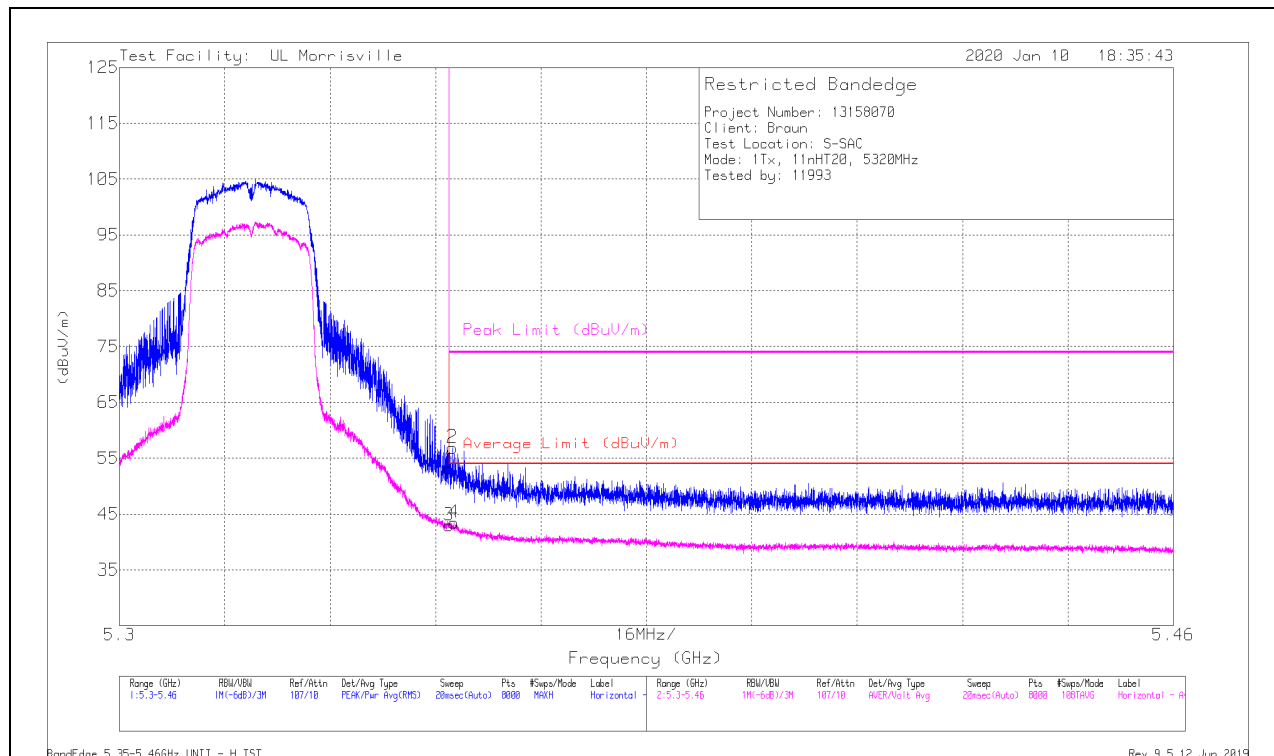
Pk - Peak detector

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)	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	41.94	Pk	34.4	-23.2	0	53.14	-	-	74	-20.86	319	120	H
2	* ** 5.35055	45.69	Pk	34.4	-23.2	0	56.89	-	-	74	-17.11	319	120	H
3	* ** 5.35001	31.11	ADV	34.4	-23.2	.68	42.99	54	-11.01	-	-	319	120	H
4	* ** 5.35075	31.61	ADV	34.4	-23.2	.68	43.49	54	-10.51	-	-	319	120	H

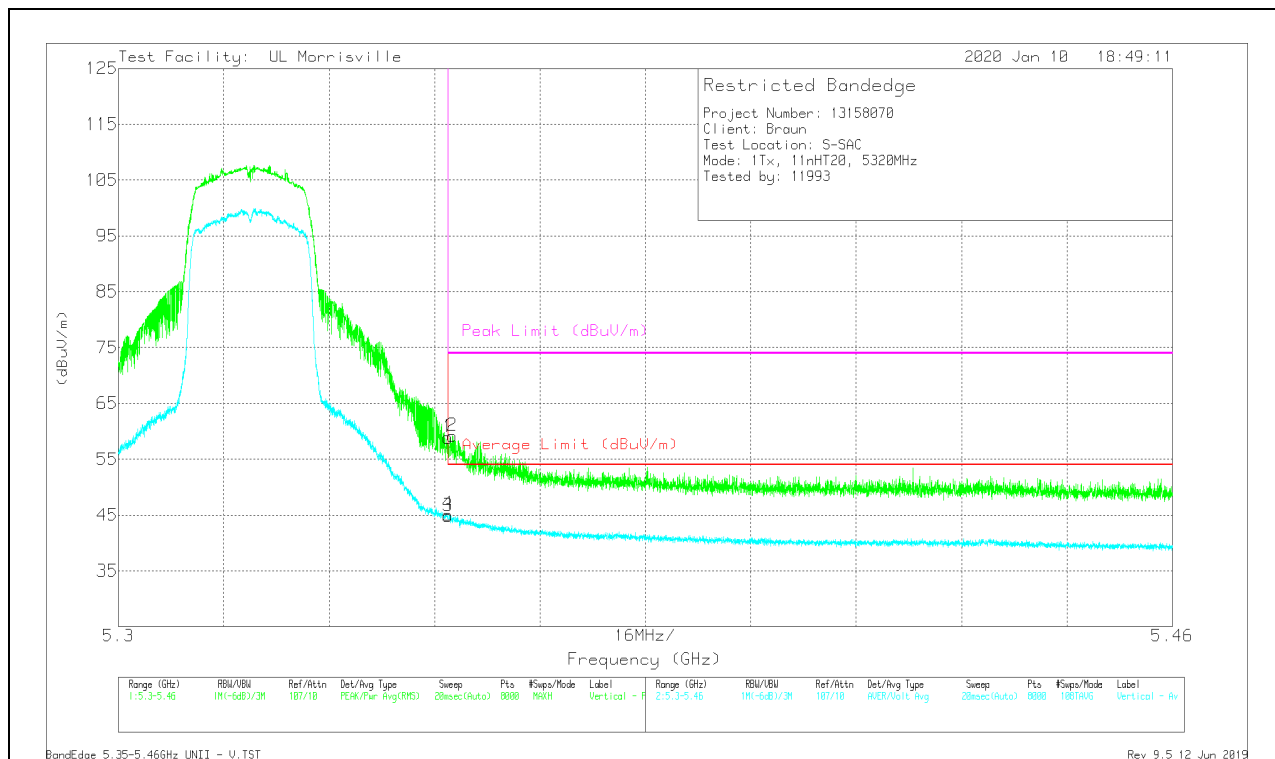
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	47.7	Pk	34.4	-23.2	0	58.9	-	-	74	-15.1	62	113	V
2	* ** 5.35071	47.97	Pk	34.4	-23.2	0	59.17	-	-	74	-14.83	62	113	V
3	* ** 5.35001	32.96	ADV	34.4	-23.2	.68	44.84	54	-9.16	-	-	62	113	V
4	* ** 5.35005	33.23	ADV	34.4	-23.2	.68	45.11	54	-8.89	-	-	62	113	V

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

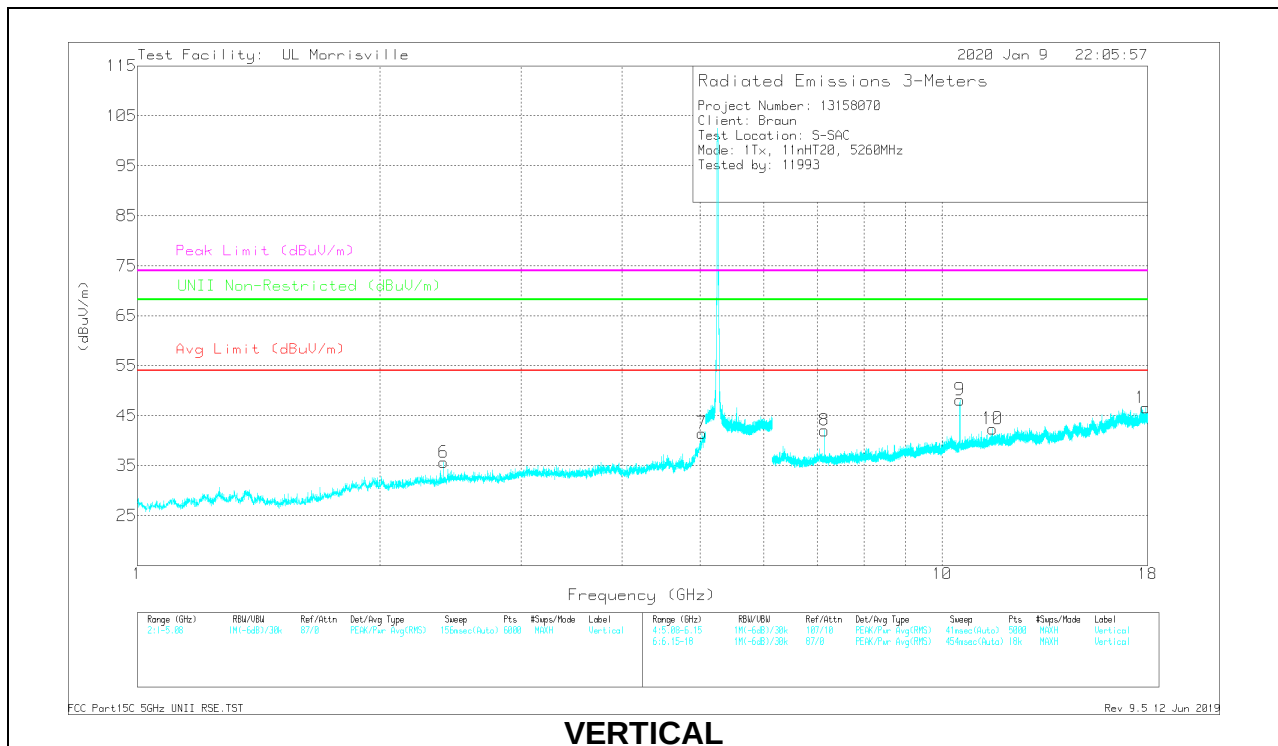
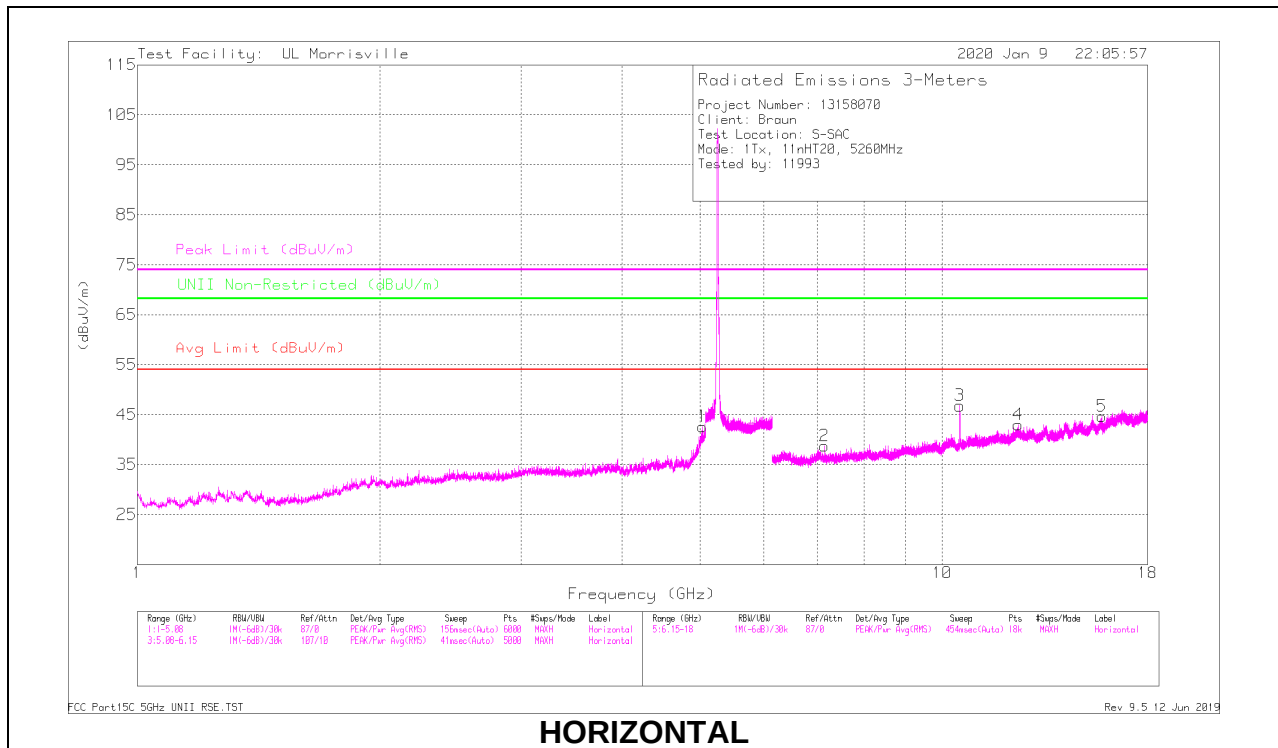
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 5.0318	44.83	PK-U	34.2	-29.5	0	49.53	-	-	74	-24.47	-	-	81	108	H
	* ** 5.03179	31.39	ADV	34.2	-29.5	.68	36.77	54	-17.23	-	-	-	-	81	108	H
7	* ** 5.02859	43.57	PK-U	34.2	-29.5	0	48.27	-	-	74	-25.73	-	-	72	118	V
	* ** 5.0285	30.6	ADV	34.2	-29.5	.68	35.98	54	-18.02	-	-	-	-	72	118	V
4	* ** 12.42863	34.73	PK-U	38.8	-23.6	0	49.93	-	-	74	-24.07	-	-	264	302	H
	* ** 12.42865	20.7	ADV	38.8	-23.6	.68	36.58	54	-17.42	-	-	-	-	264	302	H
5	* ** 15.78746	34.19	PK-U	40.4	-23	0	51.59	-	-	74	-22.41	-	-	318	379	H
	* ** 15.78714	21.3	ADV	40.4	-22.9	.68	39.48	54	-14.52	-	-	-	-	318	379	H
10	* ** 11.54956	34.03	PK-U	38.2	-24.4	0	47.83	-	-	74	-26.17	-	-	193	141	V
	* ** 11.54948	21	ADV	38.2	-24.4	.68	35.48	54	-18.52	-	-	-	-	193	141	V
11	* ** 17.91054	33.47	PK-U	41.2	-21.9	0	52.77	-	-	74	-21.23	-	-	143	229	V
	* ** 17.9105	20.18	ADV	41.2	-21.9	.68	40.16	54	-13.84	-	-	-	-	143	229	V
6	2.40234	45.8	PK-U	31.9	-34.1	0	43.6	-	-	-	-	68.2	-24.6	331	360	V
2	7.1367	37.53	PK-U	35.7	-28.5	0	44.73	-	-	-	-	68.2	-23.47	356	399	H
8	7.13713	39.9	PK-U	35.7	-28.5	0	47.1	-	-	-	-	68.2	-21.1	212	122	V
3	10.52045	41.76	PK-U	37.6	-24.9	0	54.46	-	-	-	-	68.2	-13.74	75	104	H
9	10.52068	41.84	PK-U	37.6	-24.9	0	54.54	-	-	-	-	68.2	-13.66	0	101	V

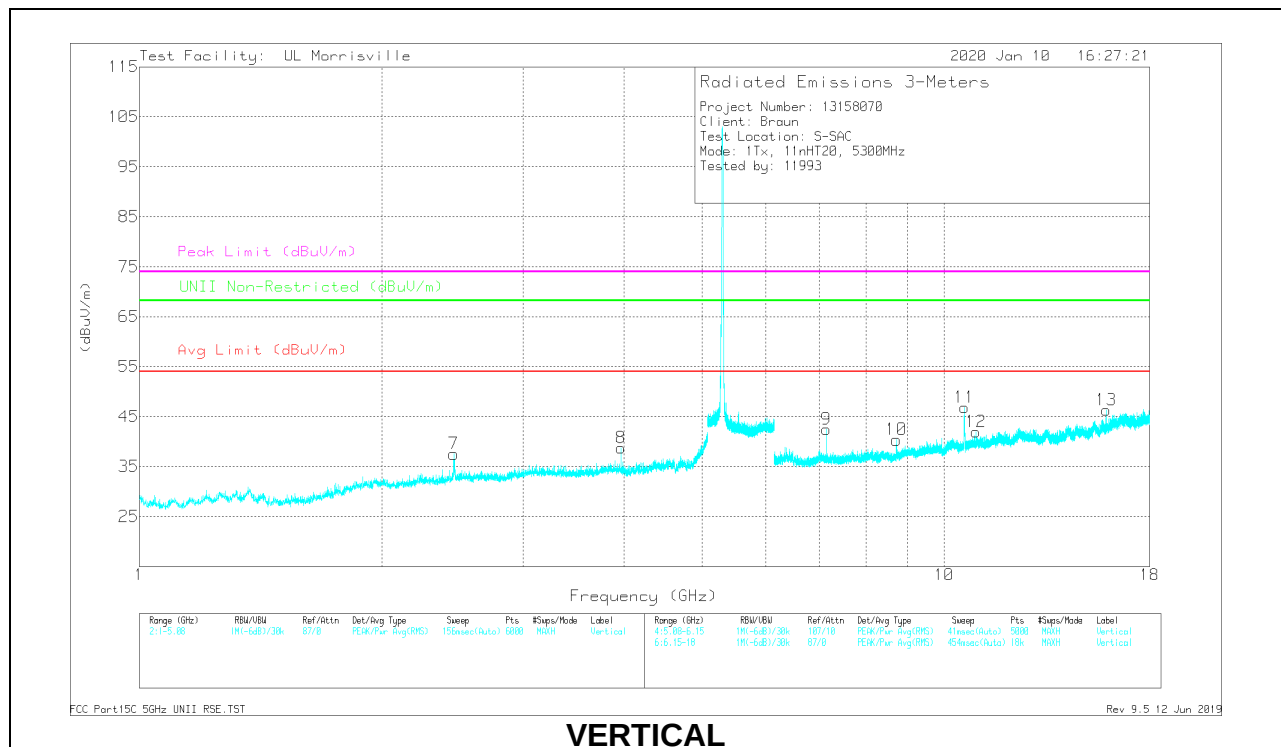
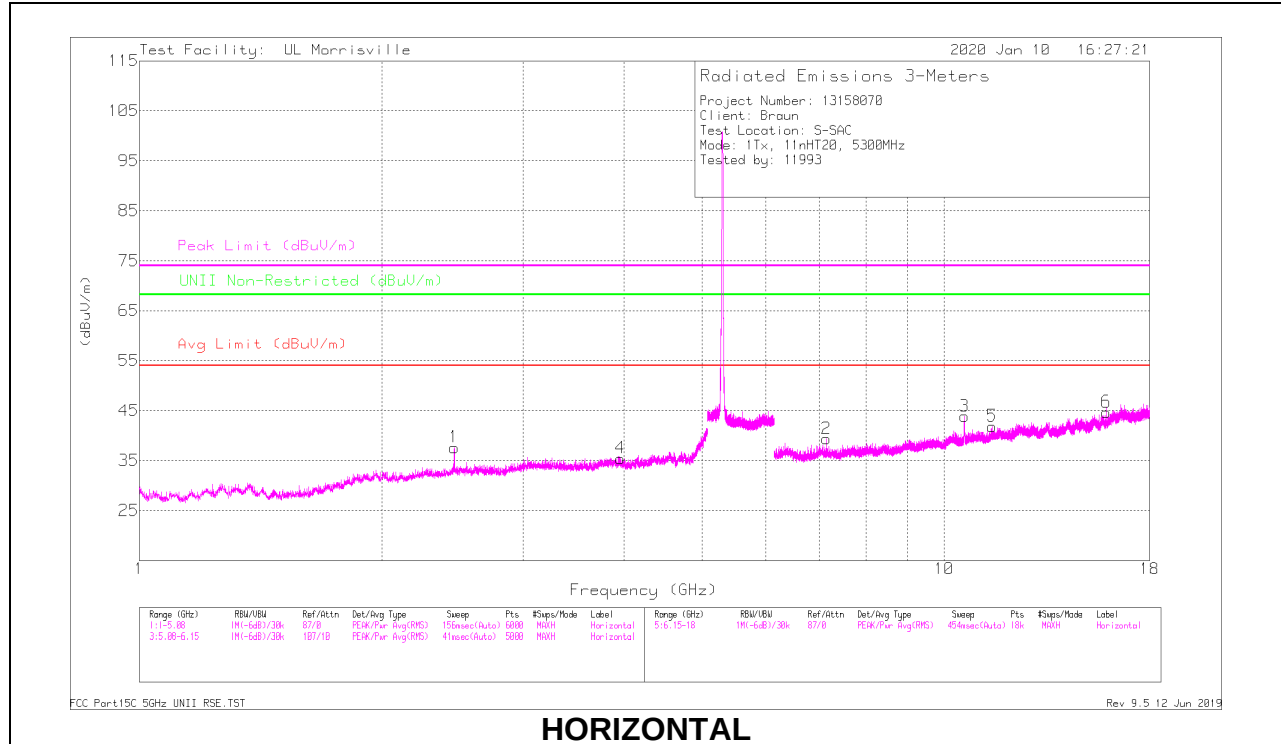
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* ** 3.96198	39.54	PK-U	33.4	-31.6	0	41.34	-	-	74	-32.66	-	-	127	149	H
	* ** 3.95981	26.84	ADV	33.4	-31.6	.68	29.32	54	-24.68	-	-	-	-	127	149	H
8	* ** 3.96505	42.93	PK-U	33.4	-31.6	0	44.73	-	-	74	-29.27	-	-	0	380	V
	* ** 3.96504	29.91	ADV	33.4	-31.6	.68	32.39	54	-21.61	-	-	-	-	0	380	V
5	* ** 11.47895	33.43	PK-U	38.1	-24.4	0	47.13	-	-	74	-26.87	-	-	41	392	H
	* ** 11.47907	20.51	ADV	38.1	-24.4	.68	34.89	54	-19.11	-	-	-	-	41	392	H
6	* ** 15.90041	37.21	PK-U	40.5	-24.5	0	53.21	-	-	74	-20.79	-	-	144	223	H
	* ** 15.90001	23.19	ADV	40.5	-24.5	.68	39.87	54	-14.13	-	-	-	-	144	223	H
11	* ** 10.60182	40.38	PK-U	37.6	-24.8	0	53.18	-	-	74	-20.82	-	-	347	128	V
	* ** 10.6002	26.25	ADV	37.6	-24.8	.68	39.73	54	-14.27	-	-	-	-	347	128	V
12	* ** 10.95106	34.18	PK-U	37.9	-24.7	0	47.38	-	-	74	-26.62	-	-	163	340	V
	* ** 10.95137	20.7	ADV	37.9	-24.7	.68	34.58	54	-19.42	-	-	-	-	163	340	V
13	* ** 15.90482	38.71	PK-U	40.5	-24.5	0	54.71	-	-	74	-19.29	-	-	67	101	V
	* ** 15.90285	24.8	ADV	40.5	-24.5	.68	41.48	54	-12.52	-	-	-	-	67	101	V
7	2.45991	46.42	PK-U	32.2	-34	0	44.62	-	-	-	-	68.2	-23.58	222	136	V
1	2.46109	47.59	PK-U	32.3	-33.9	0	45.99	-	-	-	-	68.2	-22.21	192	259	H
9	7.13699	40.07	PK-U	35.7	-28.5	0	47.27	-	-	-	-	68.2	-20.93	216	151	V
2	7.13711	38.82	PK-U	35.7	-28.5	0	46.02	-	-	-	-	68.2	-22.18	325	101	H
10	8.72287	38.3	PK-U	36.3	-27	0	47.6	-	-	-	-	68.2	-20.6	221	287	V
3	10.59728	38.43	PK-U	37.6	-24.8	0	51.23	-	-	-	-	68.2	-16.97	91	102	H

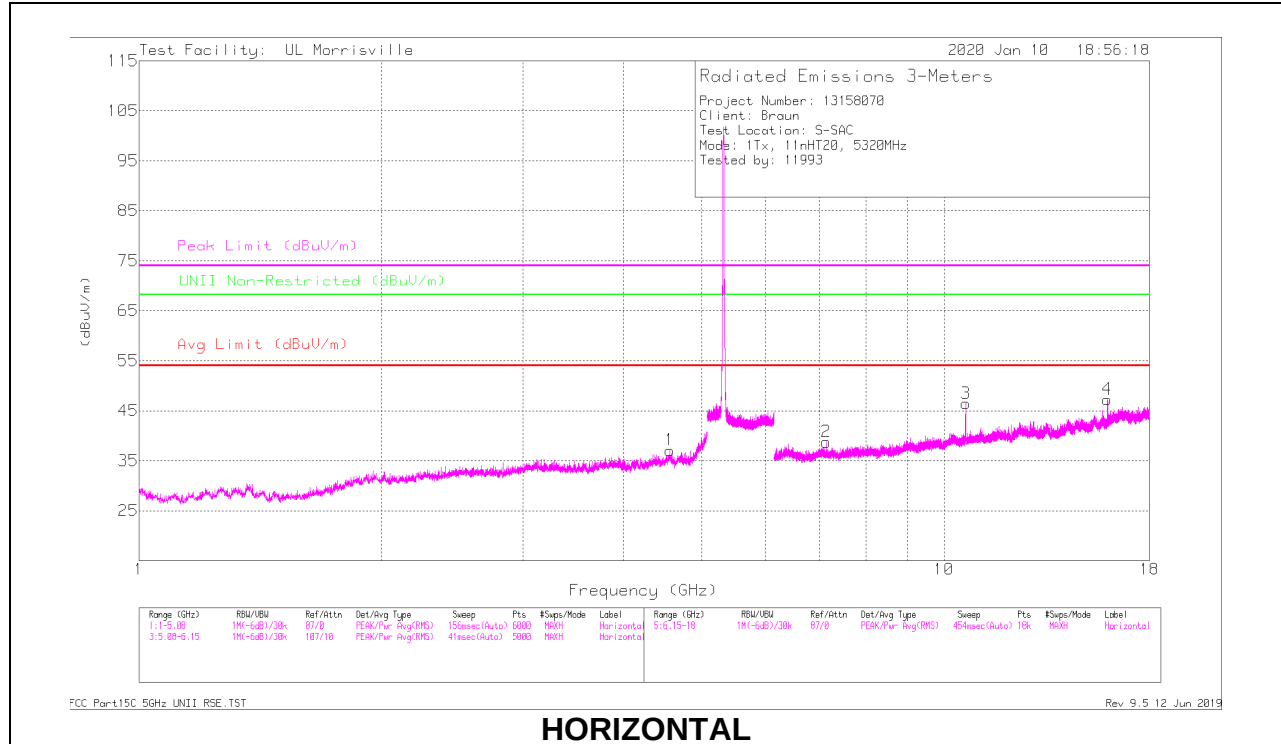
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

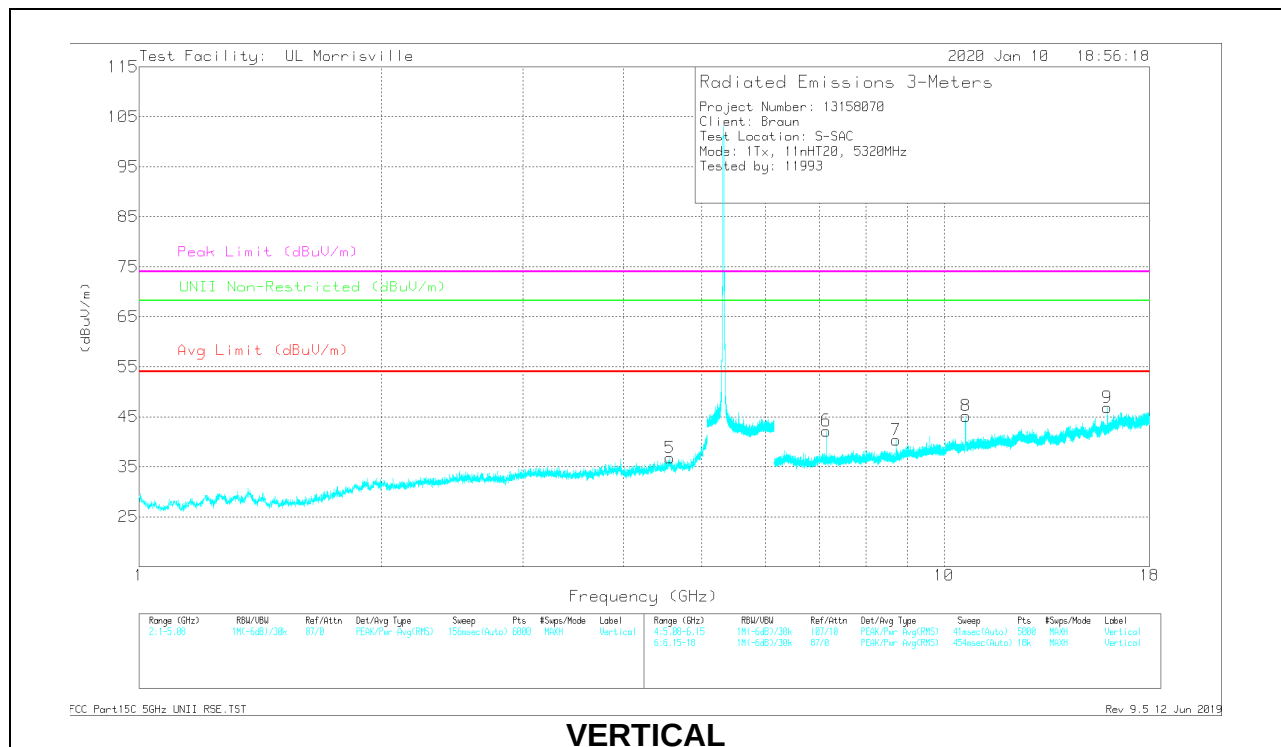
PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.56222	40.03	PK-U	34.1	-31.5	0	42.63	-	-	74	-31.37	-	-	280	154	H
	* ** 4.56133	27.68	ADV	34.1	-31.5	.68	30.96	54	-23.04	-	-	-	-	280	154	H
5	* ** 4.56834	39.93	PK-U	34.1	-31.5	0	42.53	-	-	74	-31.47	-	-	274	205	V
	* ** 4.56536	27.34	ADV	34.1	-31.5	.68	30.62	54	-23.38	-	-	-	-	274	205	V
3	* ** 10.64088	41.22	PK-U	37.7	-25	0	53.92	-	-	74	-20.08	-	-	321	111	H
	* ** 10.64033	26.37	ADV	37.7	-25	.68	39.75	54	-14.25	-	-	-	-	321	111	H
4	* ** 15.96134	38.02	PK-U	40.6	-24.2	0	54.42	-	-	74	-19.58	-	-	319	117	H
	* ** 15.96182	23.94	ADV	40.6	-24.2	.68	41.02	54	-12.98	-	-	-	-	319	117	H
8	* ** 10.64256	41.28	PK-U	37.7	-25	0	53.98	-	-	74	-20.02	-	-	221	153	V
	* ** 10.64263	26.55	ADV	37.7	-25	.68	39.93	54	-14.07	-	-	-	-	221	153	V
9	* ** 15.96009	38.56	PK-U	40.6	-24.2	0	54.96	-	-	74	-19.04	-	-	51	374	V
	* ** 15.96073	25.05	ADV	40.6	-24.2	.68	42.13	54	-11.87	-	-	-	-	51	374	V
2	7.13675	37.96	PK-U	35.7	-28.5	0	45.16	-	-	-	-	68.2	-23.04	317	103	H
6	7.13697	41.76	PK-U	35.7	-28.5	0	48.96	-	-	-	-	68.2	-19.24	197	145	V
7	8.72304	36.31	PK-U	36.3	-27	0	45.61	-	-	-	-	68.2	-22.59	210	333	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

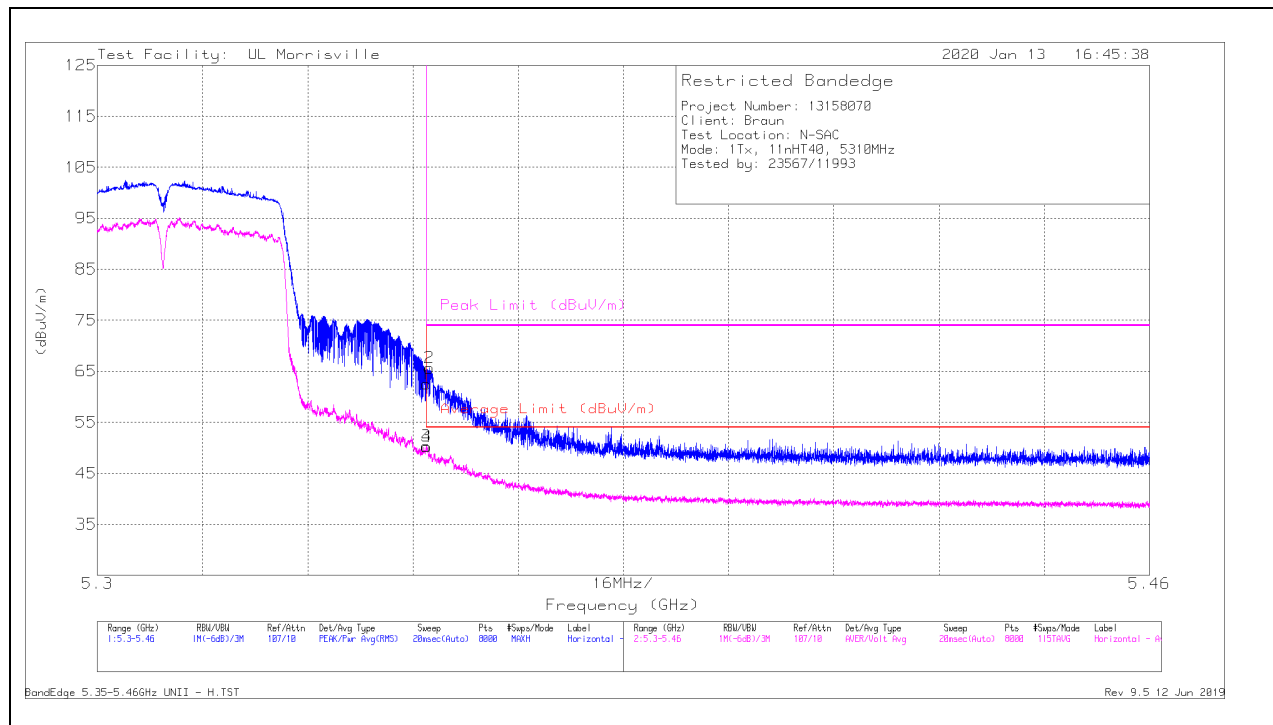
ADV - U-NII AD primary method, Linear Voltage Average

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	AT0067 AF (dBuV/m)	Amp/Cbl/Fitr/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	51.1	Pk	34.4	-23	0	62.5	-	-	74	-11.5	193	146	H
2	*** 5.35047	54.26	Pk	34.4	-23	0	65.66	-	-	74	-8.34	193	146	H
3	*** 5.35001	37.66	ADV	34.4	-23	1.23	50.29	54	-3.71	-	-	193	146	H
4	*** 5.35015	37.6	ADV	34.4	-23	1.23	50.23	54	-3.77	-	-	193	146	H

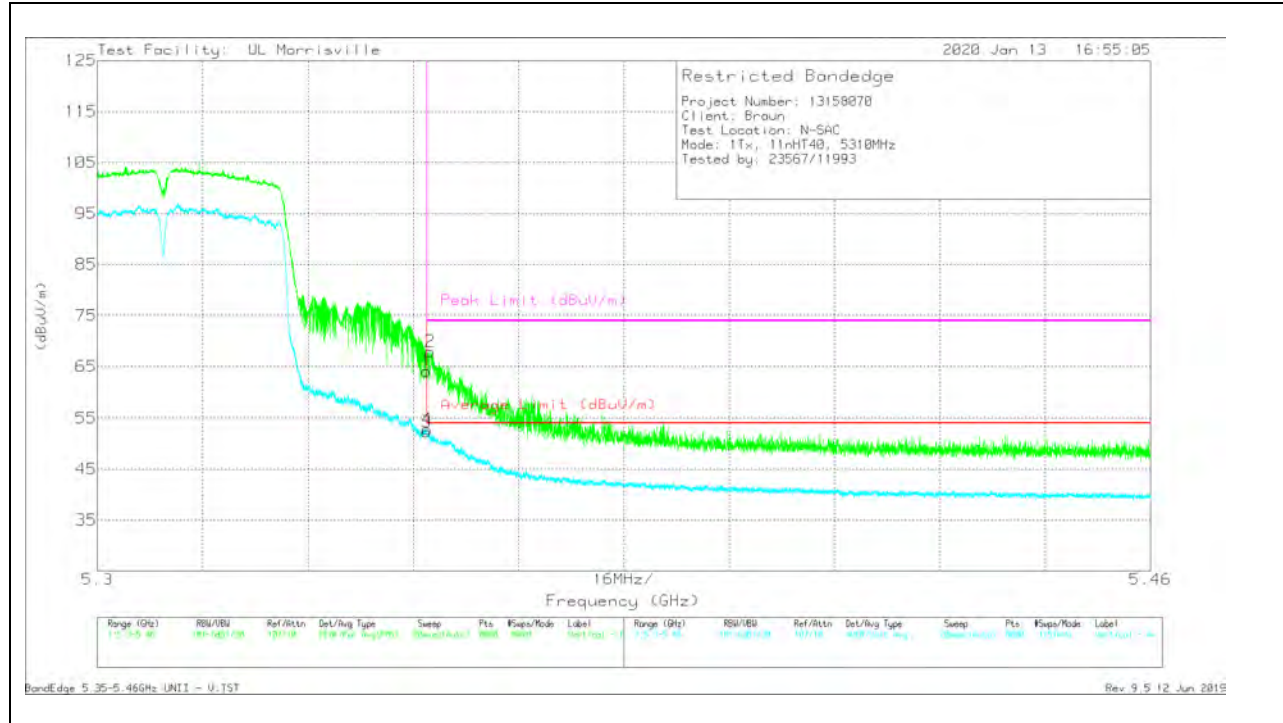
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	52.76	Pk	34.4	-23	0	64.16	-	-	74	-9.84	39	140	V
2	*** 5.35061	56.56	Pk	34.4	-23	0	67.96	-	-	74	-6.04	39	140	V
3	*** 5.35001	39.7	ADV	34.4	-23	1.23	52.33	54	-1.67	-	-	39	140	V
4	*** 5.35011	40.2	ADV	34.4	-23	1.23	52.83	54	-1.15	-	-	39	140	V

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

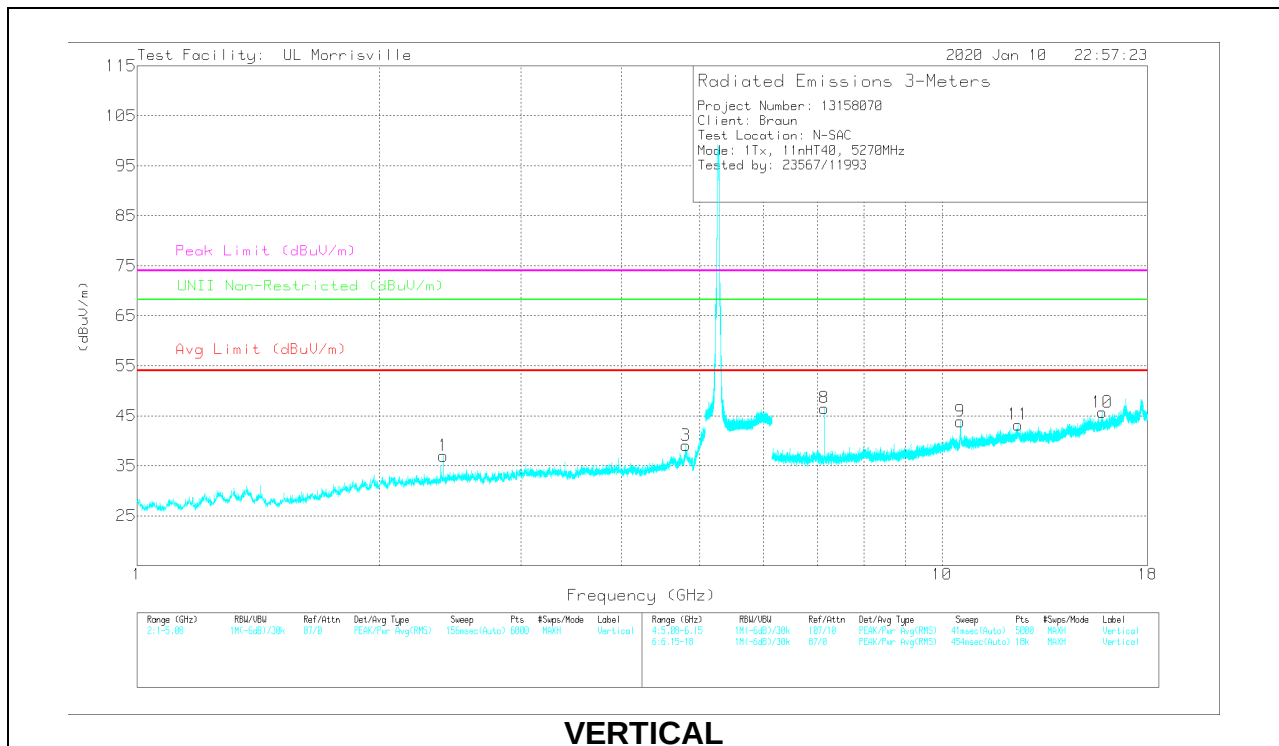
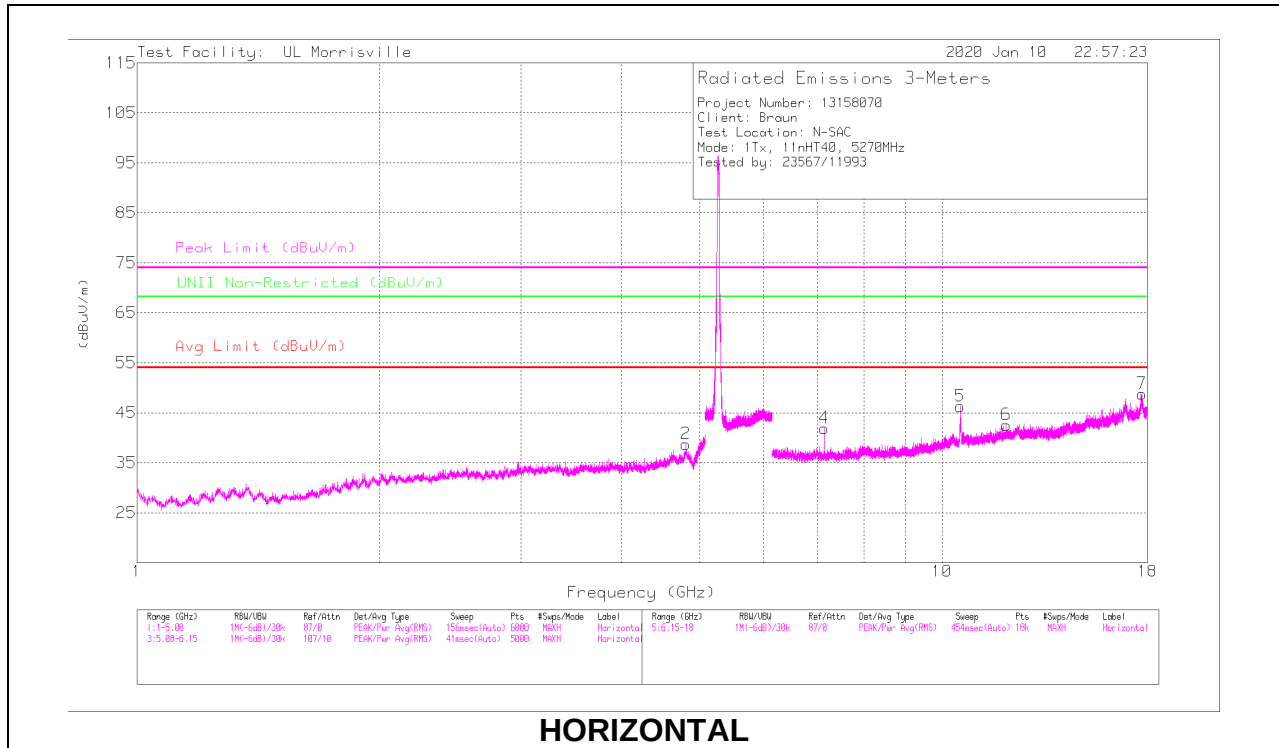
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
2	* ** 4.80727	41.98	PK-U	34.1	-30.8	0	45.28	-	-	74	-28.72	-	-	196	146	H
	* ** 4.80661	28.7	ADV	34.1	-30.8	1.23	33.23	54	-20.77	-	-	-	-	196	146	H
3	* ** 4.80401	42.84	PK-U	34.1	-30.8	0	46.14	-	-	74	-27.86	-	-	45	153	V
	* ** 4.80451	29.1	ADV	34.1	-30.8	1.23	33.63	54	-20.37	-	-	-	-	45	153	V
6	* ** 12.01475	36.41	PK-U	38.7	-26.2	0	48.91	-	-	74	-25.09	-	-	95	343	H
	* ** 12.01378	22.48	ADV	38.7	-26.2	1.23	36.21	54	-17.79	-	-	-	-	95	343	H
7	* ** 17.72444	34.01	PK-U	41.1	-20.4	0	54.71	-	-	74	-19.29	-	-	2	323	H
	* ** 17.72284	20.63	ADV	41.1	-20.4	1.23	42.56	54	-11.44	-	-	-	-	2	323	H
10	* ** 15.8192	39.38	PK-U	40.2	-25.5	0	54.08	-	-	74	-19.92	-	-	19	102	V
	* ** 15.81784	25.5	ADV	40.2	-25.5	1.23	41.43	54	-12.57	-	-	-	-	19	102	V
11	* ** 12.43468	34.96	PK-U	38.8	-25	0	48.76	-	-	74	-25.24	-	-	175	173	V
	* ** 12.43343	21.92	ADV	38.8	-25	1.23	36.95	54	-17.05	-	-	-	-	175	173	V
1	2.4022	46.54	PK-U	32	-34.2	0	44.34	-	-	-	-	68.2	-23.86	236	195	V
4	7.13672	40.49	PK-U	35.7	-30.2	0	45.99	-	-	-	-	68.2	-22.21	217	150	H
8	7.13689	45.12	PK-U	35.7	-30.2	0	50.62	-	-	-	-	68.2	-17.58	181	170	V
9	10.53851	38.03	PK-U	37.5	-26.4	0	49.13	-	-	-	-	68.2	-19.07	327	102	V
5	10.53865	40.95	PK-U	37.5	-26.4	0	52.05	-	-	-	-	68.2	-16.15	49	111	H

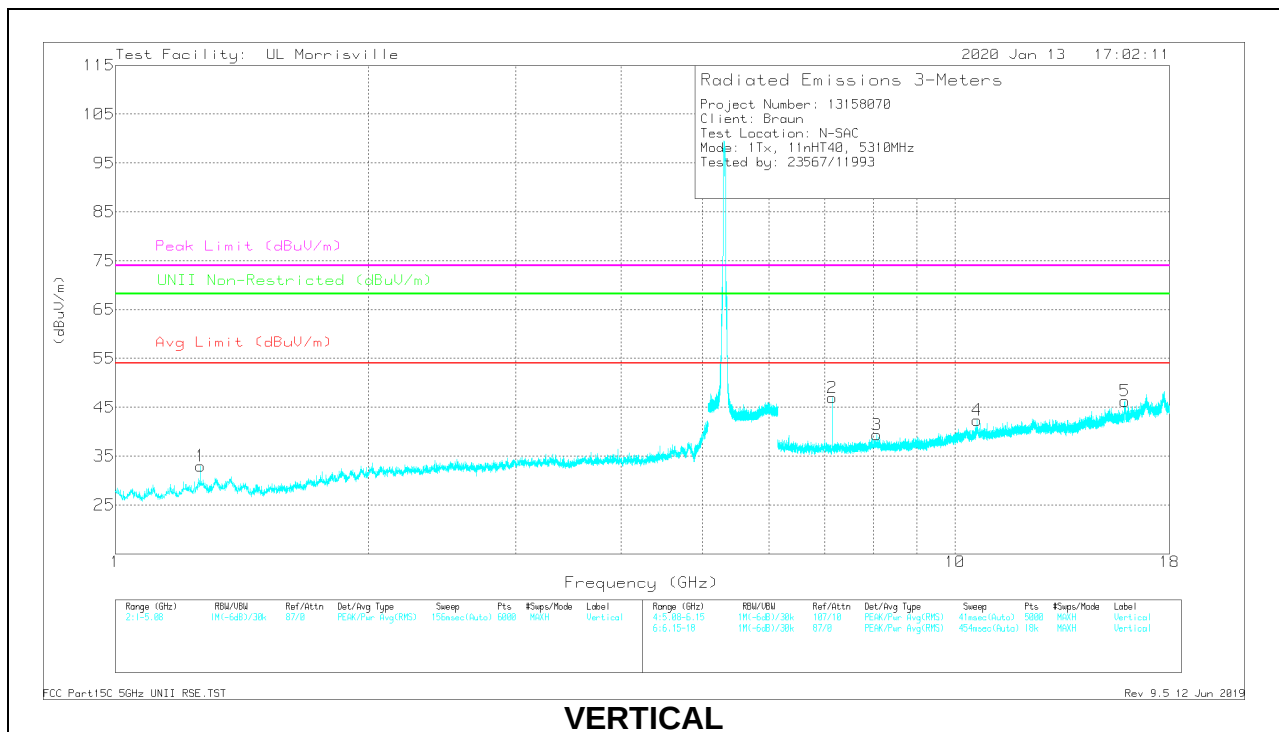
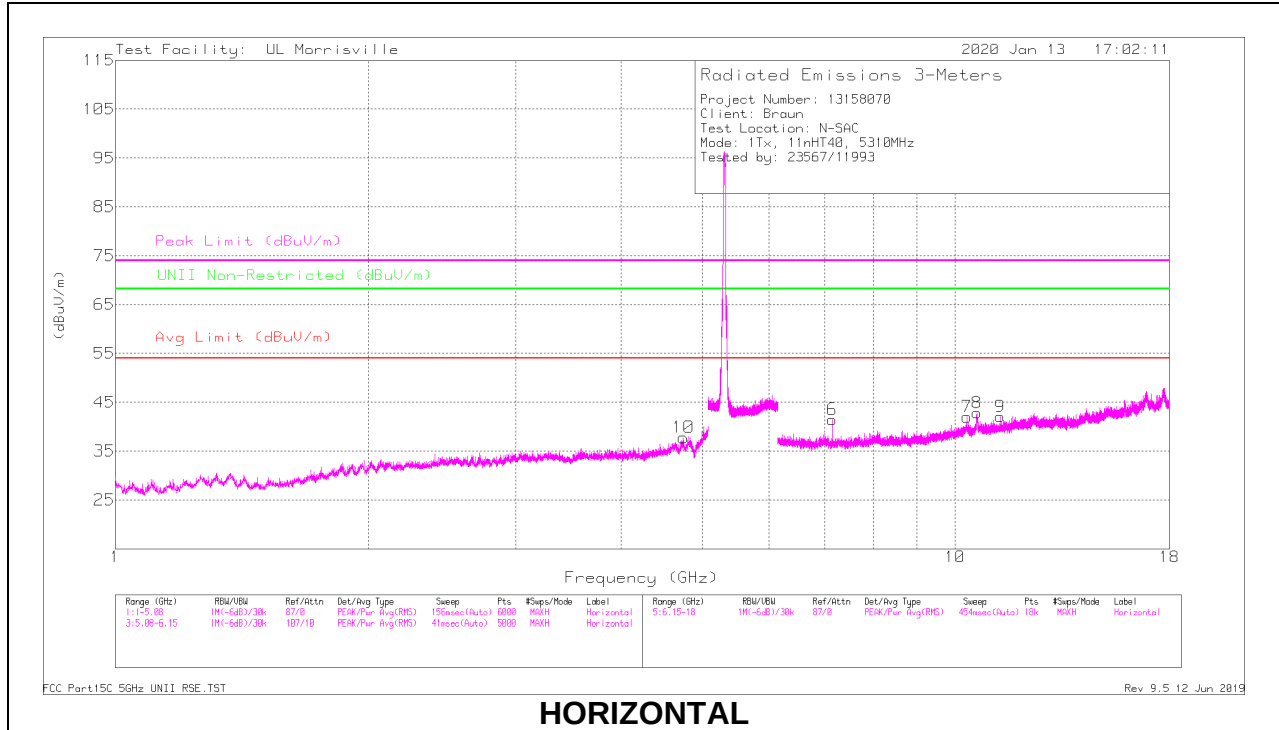
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
10	* ** 4.74408	40.47	PK-U	33.9	-31.7	0	42.67	-	-	74	-31.33	-	-	30	207	H
	* ** 4.74388	27.7	ADV	33.9	-31.7	1.23	31.13	54	-22.87	-	-	-	-	30	207	H
1	* 1.26083	44.45	PK-U	29.1	-36.5	0	37.05	-	-	74	-36.95	-	-	314	234	V
	* 1.26125	31.22	ADV	29.2	-36.5	1.23	25.15	54	-28.85	-	-	-	-	314	234	V
8	*** 10.61737	38.89	PK-U	37.6	-25.8	0	50.69	-	-	74	-23.31	-	-	47	110	H
	*** 10.61787	24.69	ADV	37.6	-25.8	1.23	37.72	54	-16.28	-	-	-	-	47	110	H
9	*** 11.3216	35.32	PK-U	37.9	-25.6	0	47.62	-	-	74	-26.38	-	-	343	303	H
	*** 11.32182	21.78	ADV	37.9	-25.6	1.23	35.31	54	-18.69	-	-	-	-	343	303	H
3	*** 8.06835	37.75	PK-U	35.8	-28.1	0	45.45	-	-	74	-28.55	-	-	76	233	V
	*** 8.06811	24.14	ADV	35.8	-28.1	1.23	33.07	54	-20.93	-	-	-	-	76	233	V
4	*** 10.62569	38.01	PK-U	37.6	-25.7	0	49.91	-	-	74	-24.09	-	-	150	116	V
	*** 10.62592	23.96	ADV	37.6	-25.7	1.23	37.09	54	-16.91	-	-	-	-	150	116	V
5	*** 15.92215	39.46	PK-U	40.3	-26.5	0	53.26	-	-	74	-20.74	-	-	15	106	V
	*** 15.92234	26.33	ADV	40.3	-26.5	1.23	41.36	54	-12.64	-	-	-	-	15	106	V
6	7.13706	45.46	PK-U	35.7	-30.2	0	50.96	-	-	-	-	68.2	-17.24	172	102	H
2	7.13726	42.16	PK-U	35.7	-30.2	0	47.66	-	-	-	-	68.2	-20.54	267	110	V
7	10.32432	35.01	PK-U	37.4	-25	0	47.41	-	-	-	-	68.2	-20.79	337	123	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

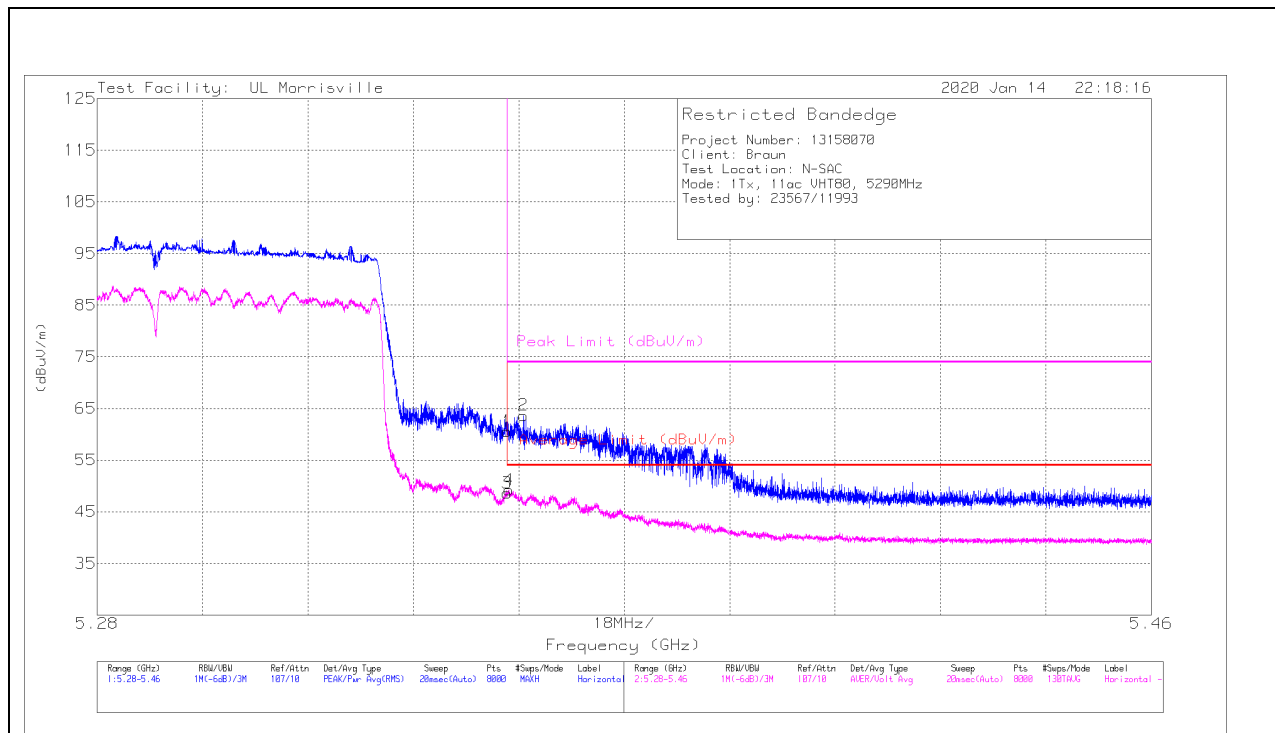
Pk - Peak detector

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	AT0067 AF (dBuV/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	49.16	Pk	34.4	-23	0	60.56	-	-	74	-13.44	7	112	H
2	*** 5.3528	52.36	Pk	34.4	-23.1	0	63.66	-	-	74	-10.34	7	112	H
3	*** 5.35001	34.9	ADV	34.4	-23	2.3	48.6	54	-5.4	-	-	7	112	H
4	*** 5.3503	35.5	ADV	34.4	-23	2.3	49.2	54	-4.8	-	-	7	112	H

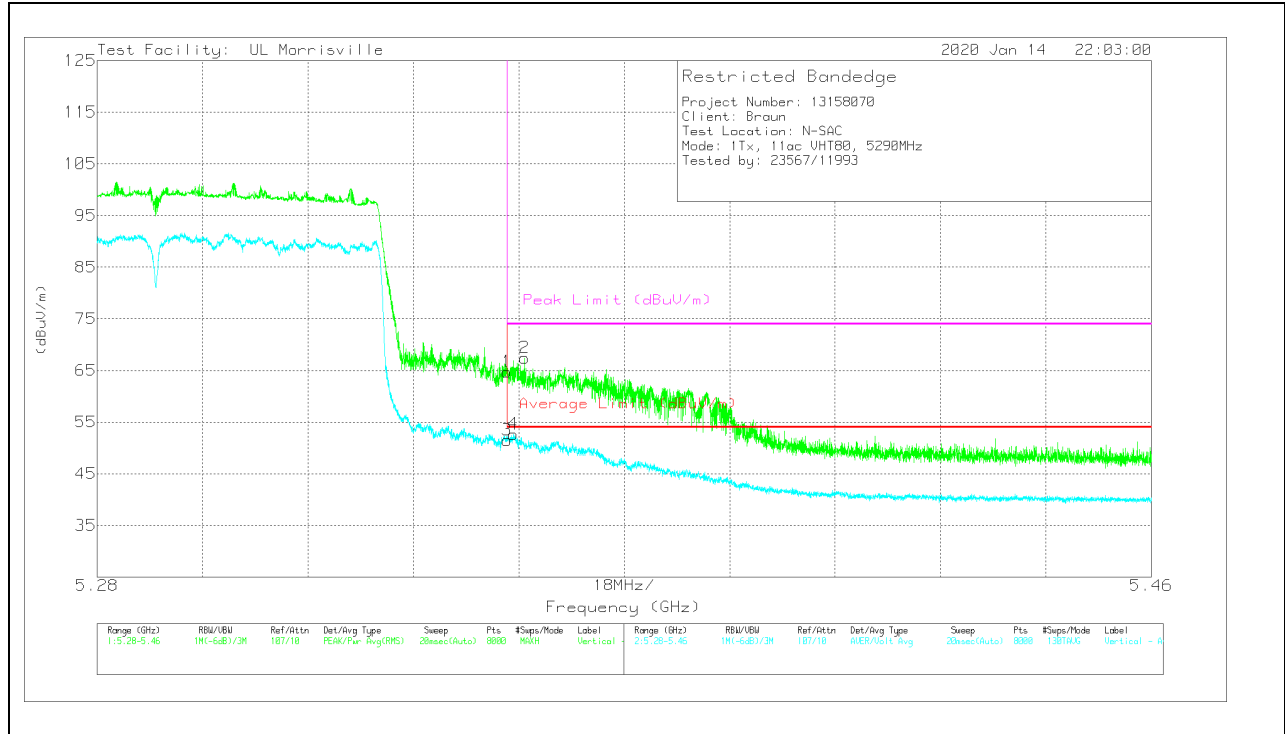
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	53.32	Pk	34.4	-23	0	64.72	-	-	74	-9.28	52	112	V
2	* ** 5.353	56.14	Pk	34.4	-23.1	0	67.44	-	-	74	-6.56	52	112	V
3	* ** 5.35001	37.78	ADV	34.4	-23	2.3	51.48	54	-2.52	-	-	52	112	V
4	* ** 5.35106	38.97	ADV	34.4	-23	2.3	52.67	54	-1.33	-	-	52	112	V

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

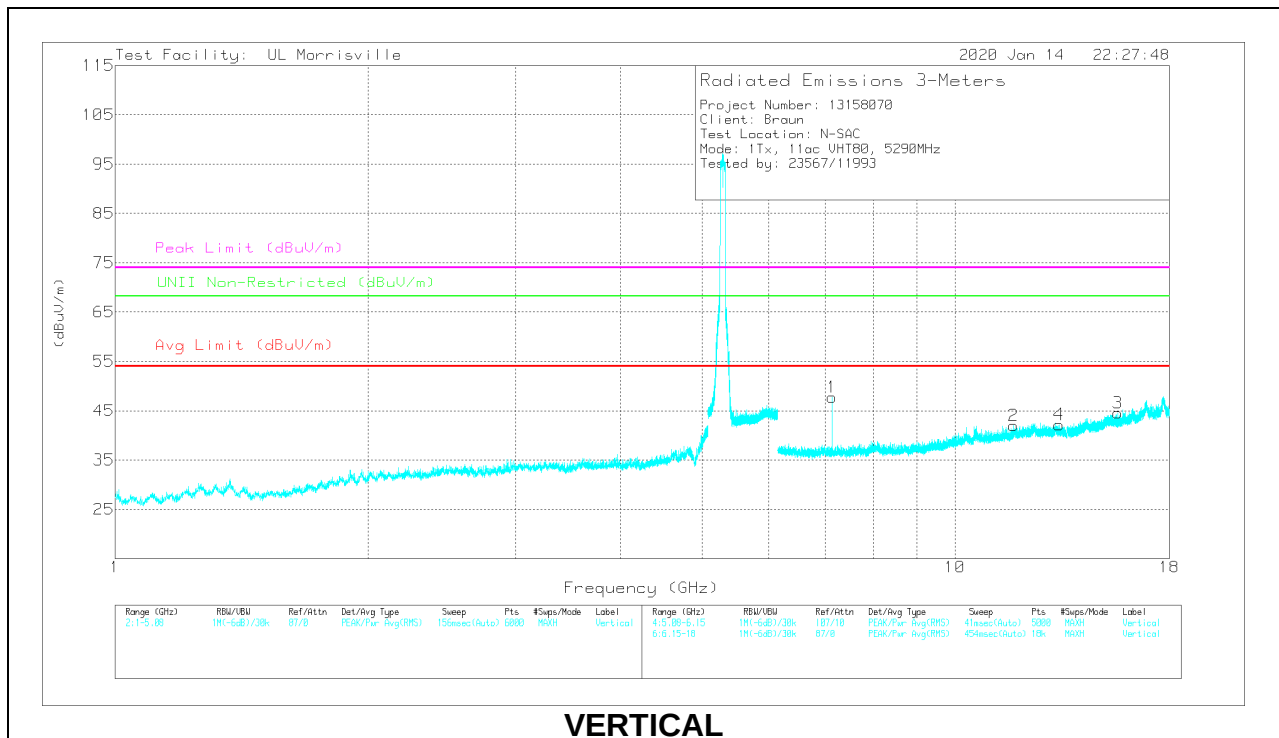
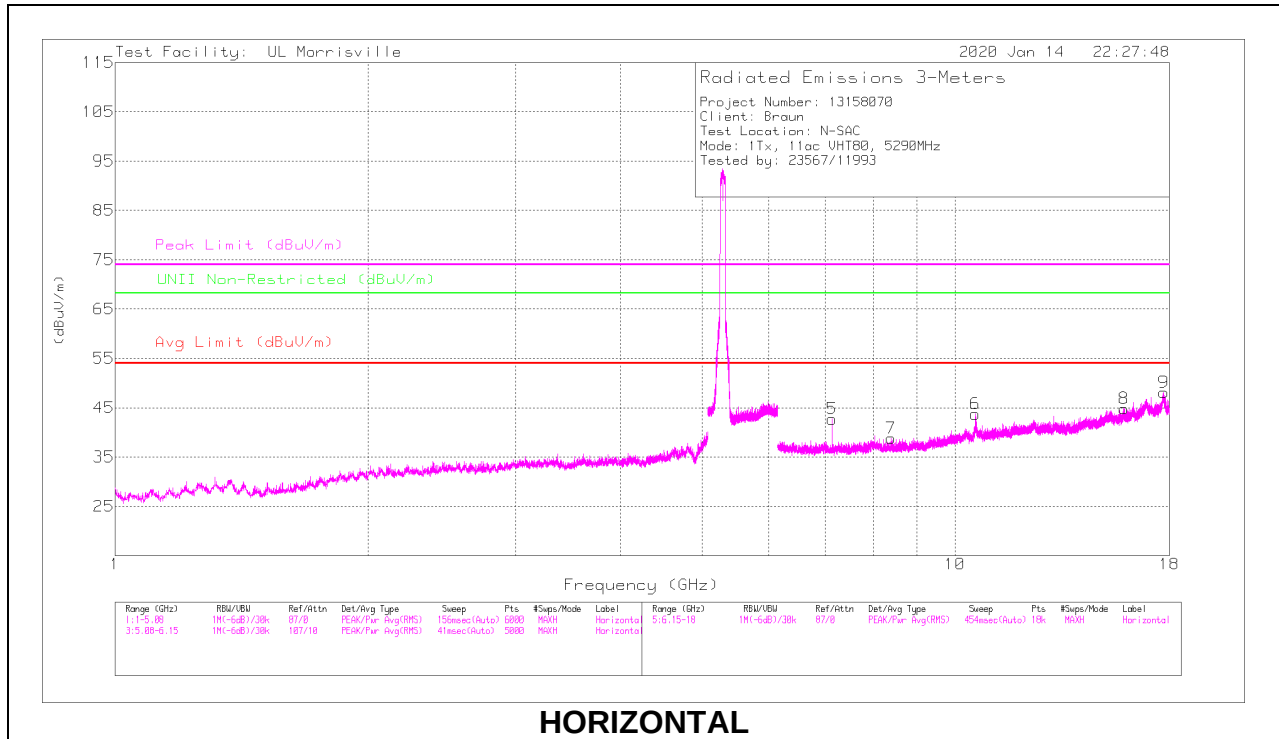
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

HARMONICS AND SPURIOUS EMISSIONS

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
7	*** 8.38889	37.04	PK-U	35.7	-28.2	0	44.54	-	-	74	-29.46	-	-	296	267	H
	** 8.38848	23.81	ADV	35.7	-28.2	2.3	33.61	54	-20.39	-	-	-	-	296	267	H
8	*** 15.90212	36.64	PK-U	40.3	-26.1	0	50.84	-	-	74	-23.16	-	-	326	150	H
	*** 15.90222	23.28	ADV	40.3	-26.1	2.3	39.78	54	-14.22	-	-	-	-	326	150	H
9	*** 17.73215	32.88	PK-U	41.1	-20.3	0	53.68	-	-	74	-20.32	-	-	298	343	H
	*** 17.7315	19.99	ADV	41.1	-20.3	2.3	43.09	54	-10.91	-	-	-	-	298	343	H
2	*** 11.74104	34.89	PK-U	38.4	-25.7	0	47.59	-	-	74	-26.41	-	-	14	145	V
	*** 11.74067	21.89	ADV	38.4	-25.7	2.3	36.89	54	-17.11	-	-	-	-	14	145	V
3	*** 15.62589	36.26	PK-U	40.2	-26.7	0	49.76	-	-	74	-24.24	-	-	322	281	V
	** 15.626	23.2	ADV	40.2	-26.7	2.3	39	54	-15	-	-	-	-	322	281	V
4	*** 13.3044	37.16	PK-U	38.9	-27.8	0	48.26	-	-	74	-25.74	-	-	264	289	V
	*** 13.30401	23.93	ADV	38.9	-27.8	2.3	37.33	54	-16.67	-	-	-	-	264	289	V
5	7.13675	42.43	PK-U	35.7	-30.2	0	47.93	-	-	-	-	68.2	-20.27	257	113	H
1	7.13695	46.37	PK-U	35.7	-30.2	0	51.87	-	-	-	-	68.2	-16.33	176	102	V
6	10.57823	37.97	PK-U	37.6	-25.7	0	49.87	-	-	-	-	68.2	-18.33	45	107	H

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

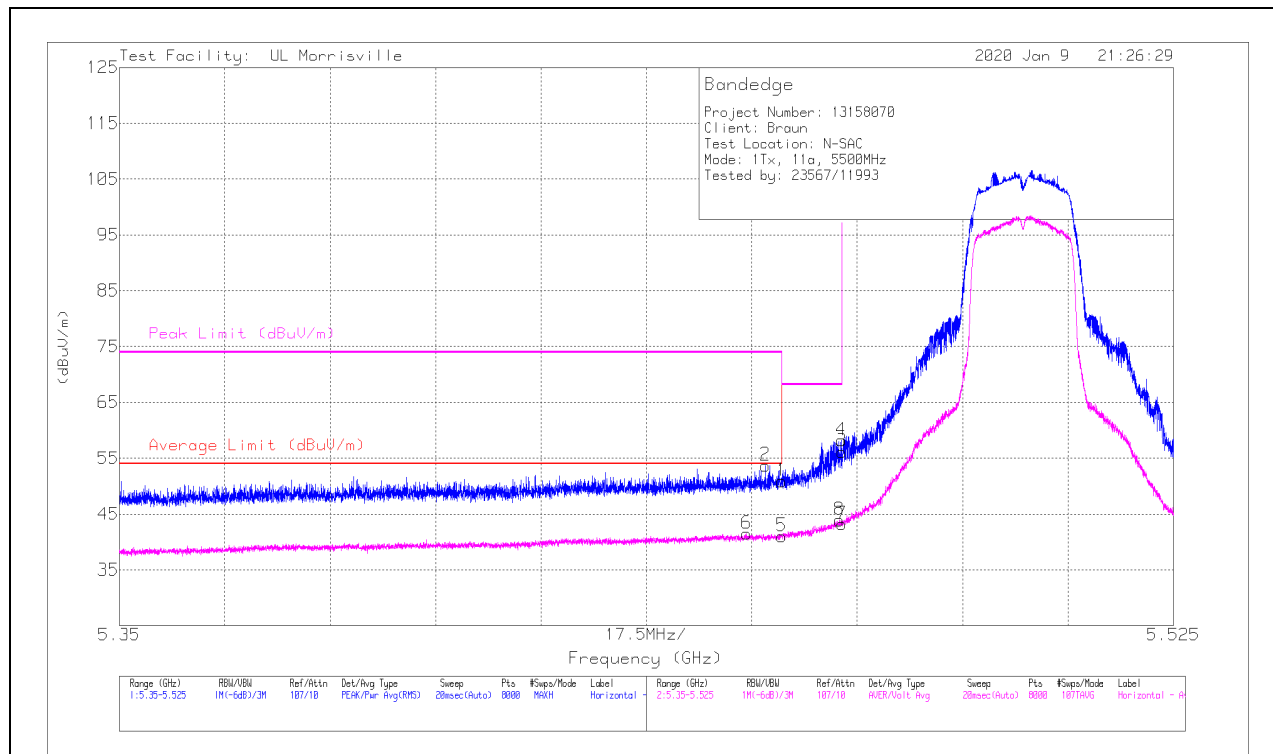
Pk - Peak detector

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	AT0067 AF (dBuV/m)	Amp/Cbl/Fitr/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	39.51	Pk	34.4	-23	0	50.91	-	-	74	-23.09	49	102	H
2	* ** 5.45725	42.31	Pk	34.4	-23	0	53.71	-	-	74	-20.29	49	102	H
5	* ** 5.45998	29	ADV	34.4	-23	.64	41.04	54	-12.96	-	-	49	102	H
6	* ** 5.45412	29.47	ADV	34.4	-23	.64	41.51	54	-12.49	-	-	49	102	H
8	5.46954	31.76	ADV	34.4	-22.9	.64	43.9	-	-	-	-	49	102	H
4	5.46987	46.72	Pk	34.4	-22.9	0	58.22	-	-	68.2	-9.98	49	102	H
3	5.46998	44.68	Pk	34.4	-22.9	0	56.18	-	-	68.2	-12.02	49	102	H
7	5.46998	31.06	ADV	34.4	-22.9	.64	43.2	-	-	-	-	49	102	H

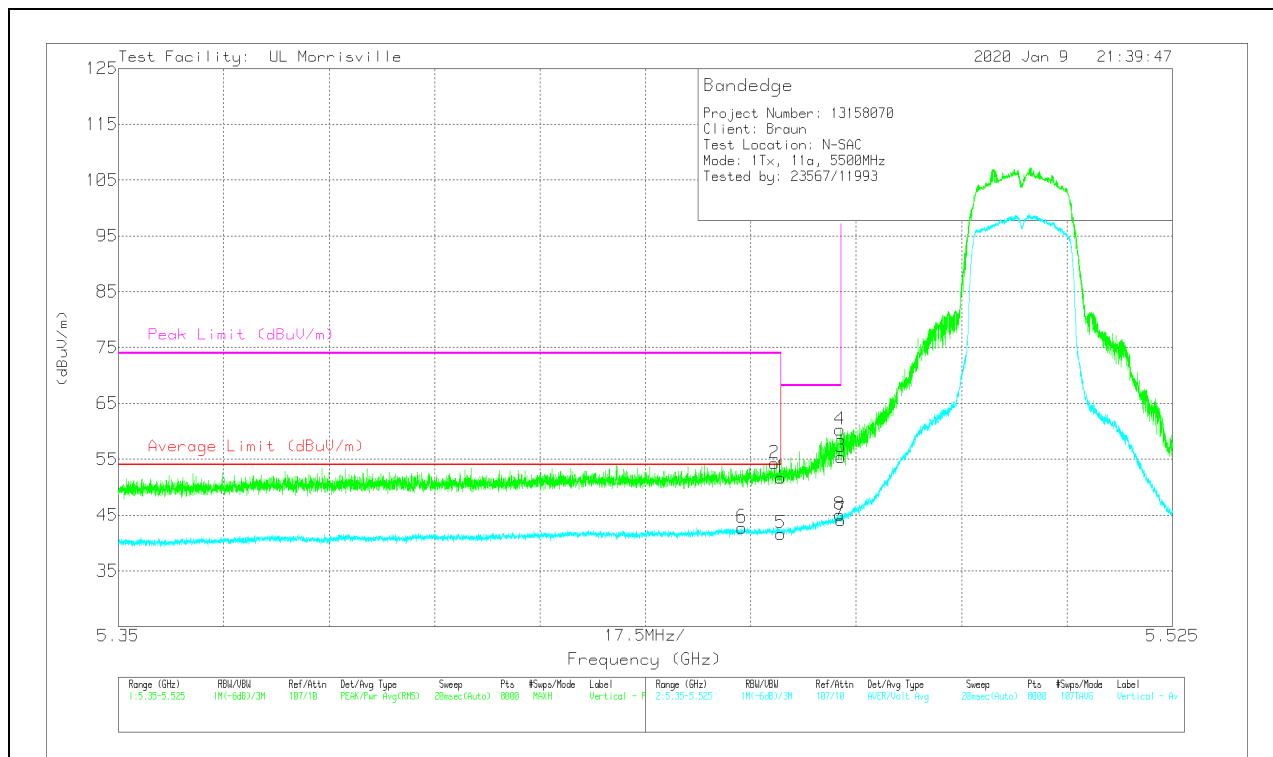
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AT0067 AF (dBUV/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	40.28	Pk	34.4	-23	0	51.68	-	-	74	-22.32	38	108	V
2	*** 5.45889	42.85	Pk	34.4	-23	0	54.25	-	-	74	-19.75	38	108	V
5	*** 5.45998	29.64	ADV	34.4	-23	.64	41.68	54	-12.32	-	-	38	108	V
6	*** 5.45351	30.73	ADV	34.4	-23	.64	42.77	54	-11.23	-	-	38	108	V
8	5.46976	32.9	ADV	34.4	-22.9	.64	45.04	-	-	-	-	38	108	V
4	5.4698	48.8	Pk	34.4	-22.9	0	60.3	-	-	68.2	-7.9	38	108	V
3	5.46998	43.93	Pk	34.4	-22.9	0	55.43	-	-	68.2	-12.77	38	108	V
7	5.46998	31.99	ADV	34.4	-22.9	.64	44.13	-	-	-	-	38	108	V

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

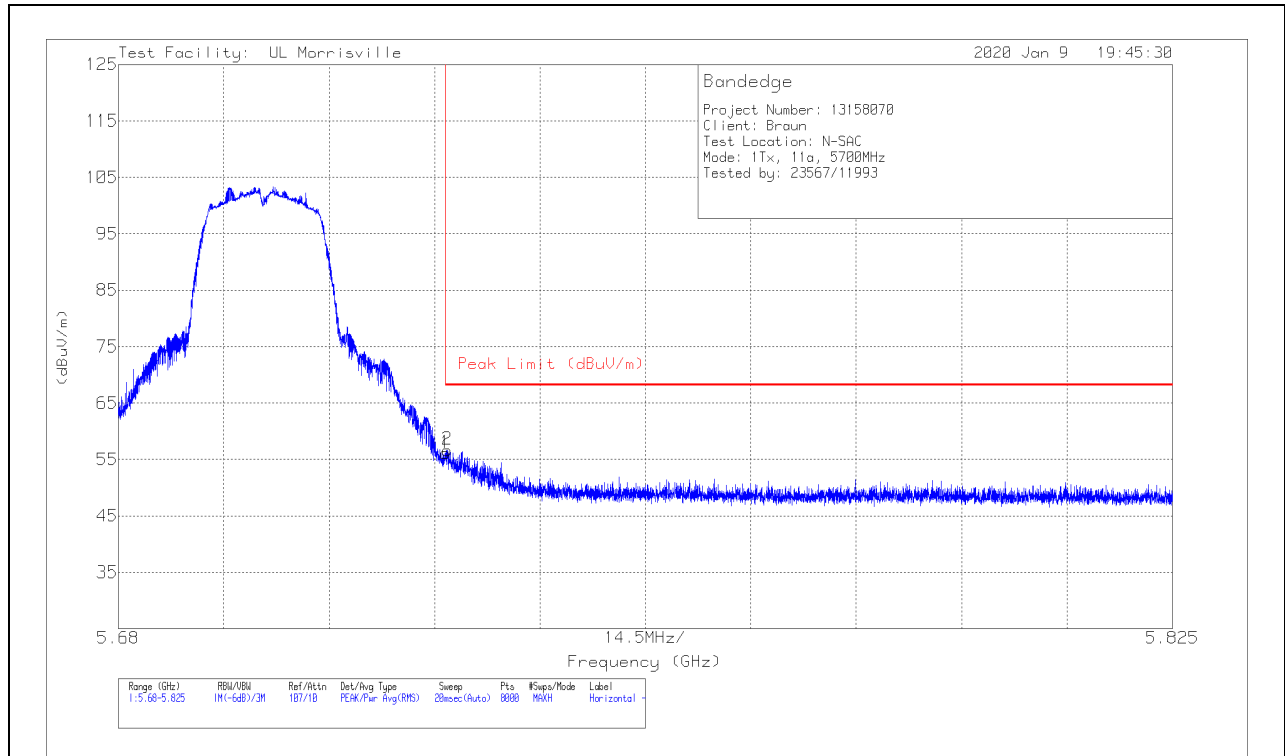
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

BANDEGE (HIGH CHANNEL)

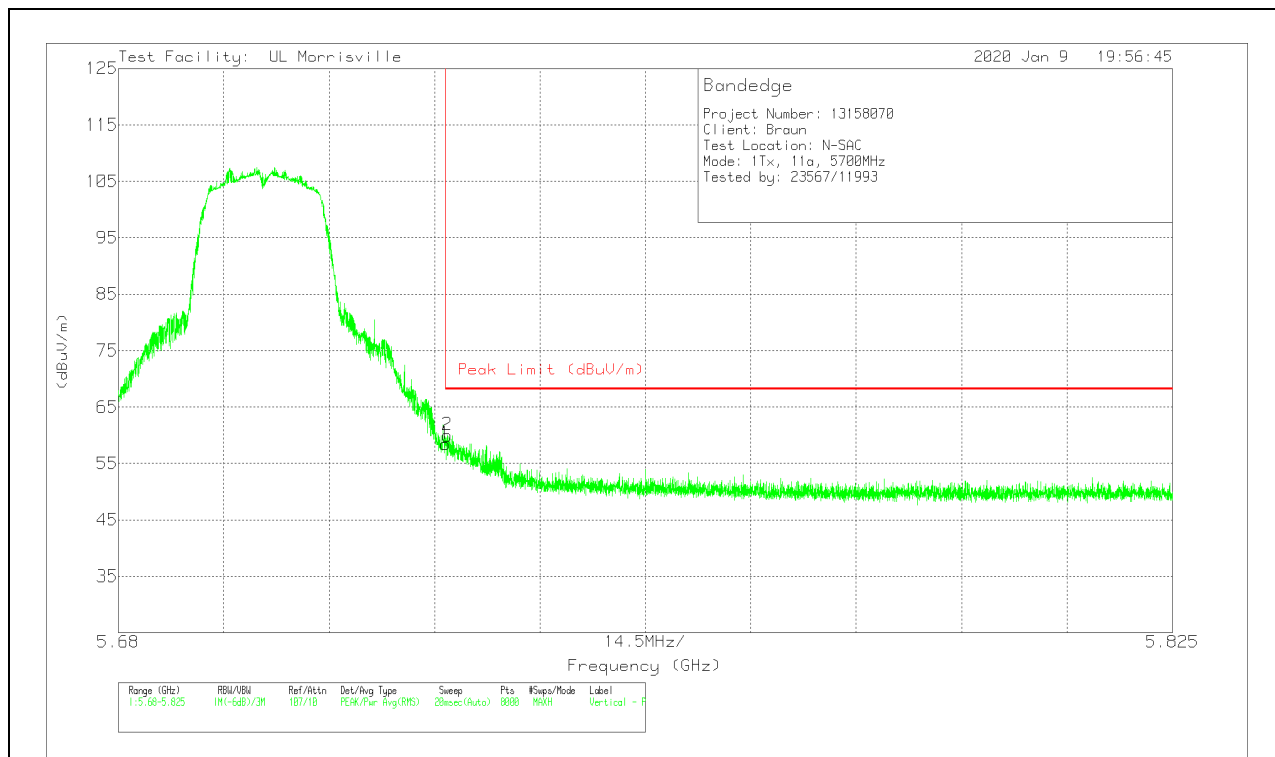
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	44.41	Pk	34.6	-22.9	0	56.11	68.2	-12.09	272	192	H
2	5.72523	44.98	Pk	34.6	-22.9	0	56.68	68.2	-11.52	272	192	H

Pk - Peak detector

VERTICAL RESULT

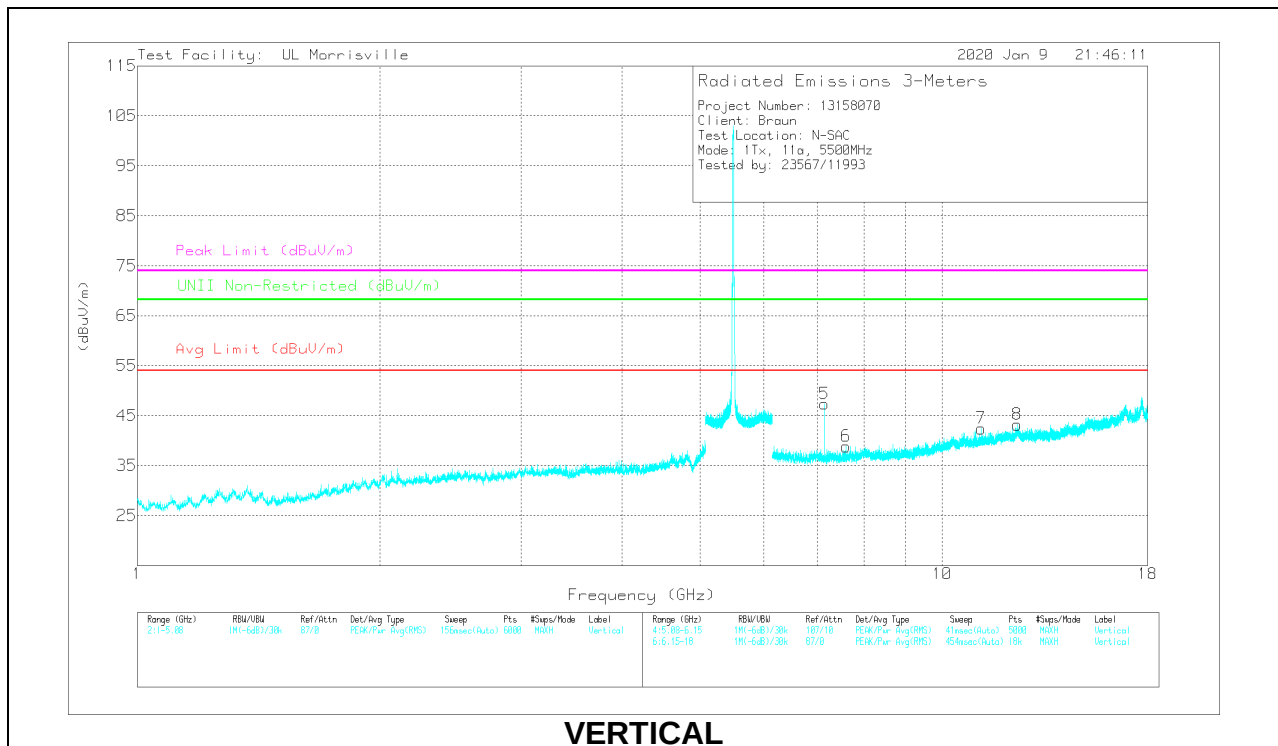
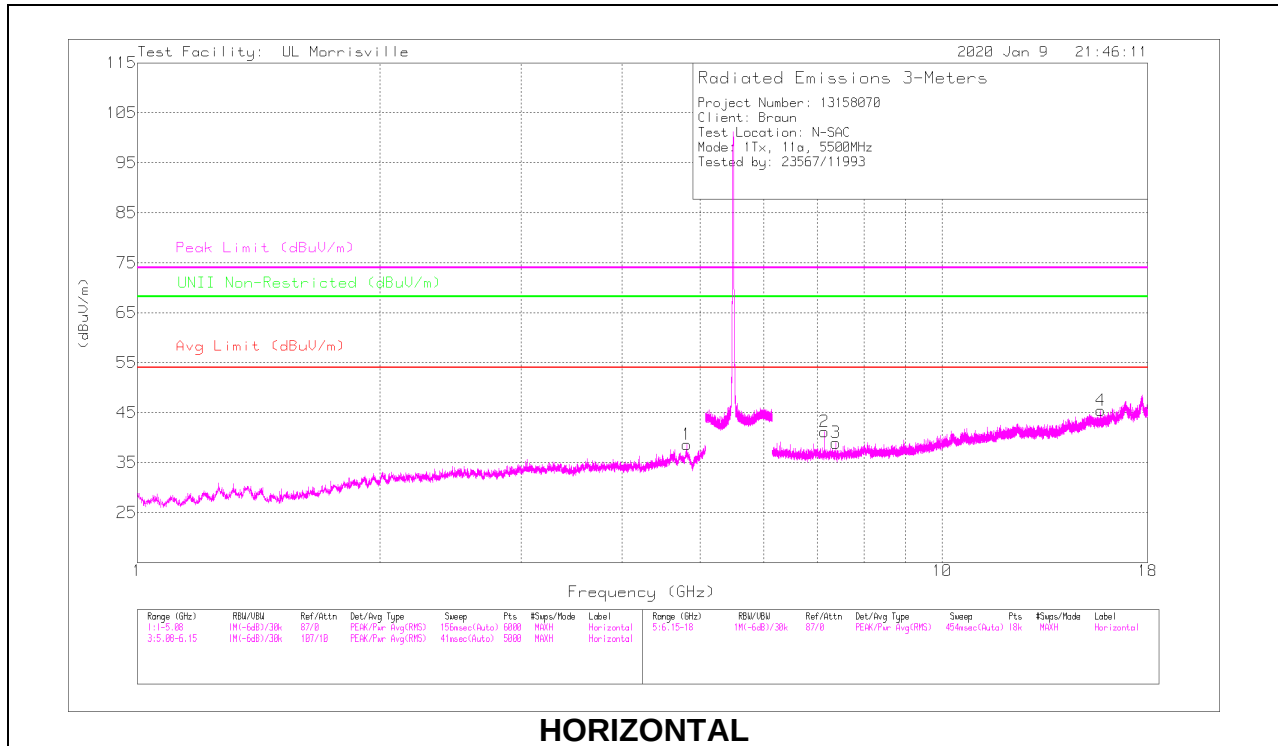


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72501	46.75	Pk	34.6	-22.9	0	58.45	68.2	-9.75	125	179	V
2	5.72525	48.28	Pk	34.6	-22.9	0	59.98	68.2	-8.22	125	179	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	* ** 4.81838	42.01	PK-U	34.1	-30.9	0	45.21	-	-	74	-28.79	-	-	325	145	H
	* ** 4.81845	28.66	ADV	34.1	-30.9	.64	32.5	54	-21.5	-	-	-	-	325	145	H
3	* ** 7.38311	37.89	PK-U	35.6	-29.6	0	43.89	-	-	74	-30.11	-	-	246	332	H
	* ** 7.3816	24.8	ADV	35.6	-29.6	.64	31.44	54	-22.56	-	-	-	-	246	332	H
4	* ** 15.73233	36.92	PK-U	40.1	-25.4	0	51.62	-	-	74	-22.38	-	-	210	266	H
	* ** 15.73271	22.97	ADV	40.1	-25.4	.64	38.31	54	-15.69	-	-	-	-	210	266	H
6	* ** 7.59819	37.67	PK-U	35.7	-29.3	0	44.07	-	-	74	-29.93	-	-	115	375	V
	* ** 7.59752	24.66	ADV	35.7	-29.3	.64	31.7	54	-22.3	-	-	-	-	115	375	V
7	* ** 11.18706	35.47	PK-U	37.8	-26	0	47.27	-	-	74	-26.73	-	-	221	271	V
	* ** 11.18816	22.45	ADV	37.8	-26	.64	34.89	54	-19.11	-	-	-	-	221	271	V
8	* ** 12.40364	36.2	PK-U	38.8	-24.9	0	50.1	-	-	74	-23.9	-	-	34	216	V
	* ** 12.40201	22.11	ADV	38.8	-24.9	.64	36.65	54	-17.35	-	-	-	-	34	216	V
2	7.13709	42.02	PK-U	35.7	-30.2	0	47.52	-	-	-	-	68.2	-20.68	281	102	H
5	7.13719	45.55	PK-U	35.7	-30.2	0	51.05	-	-	-	-	68.2	-17.15	172	104	V

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

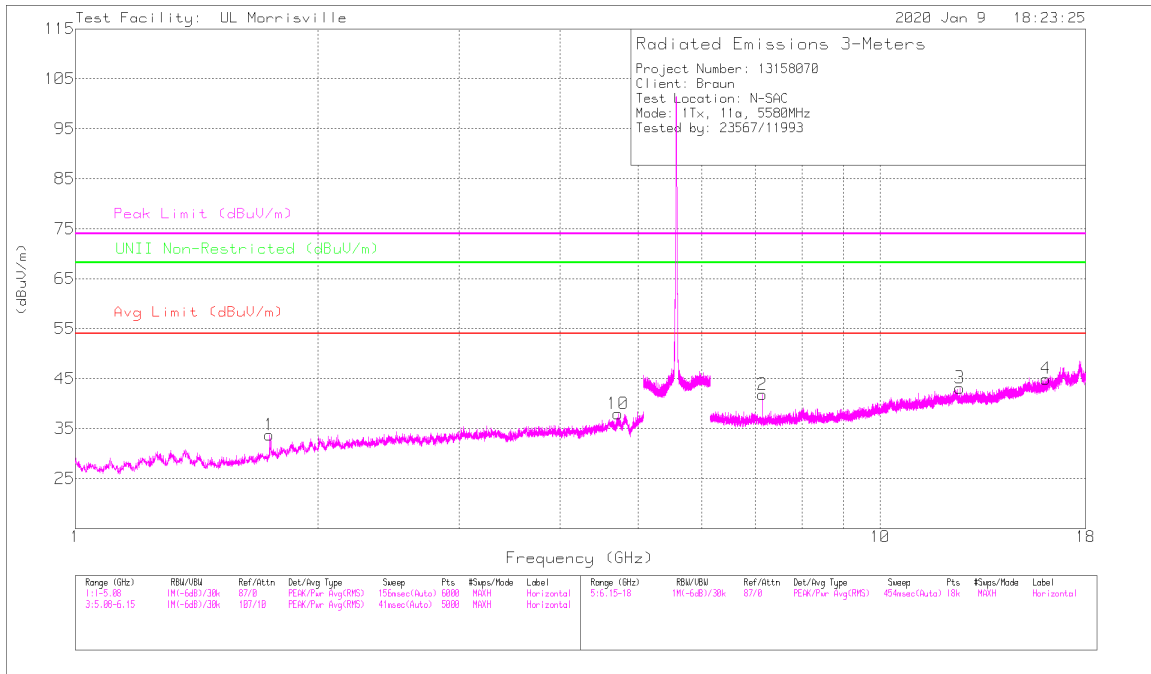
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

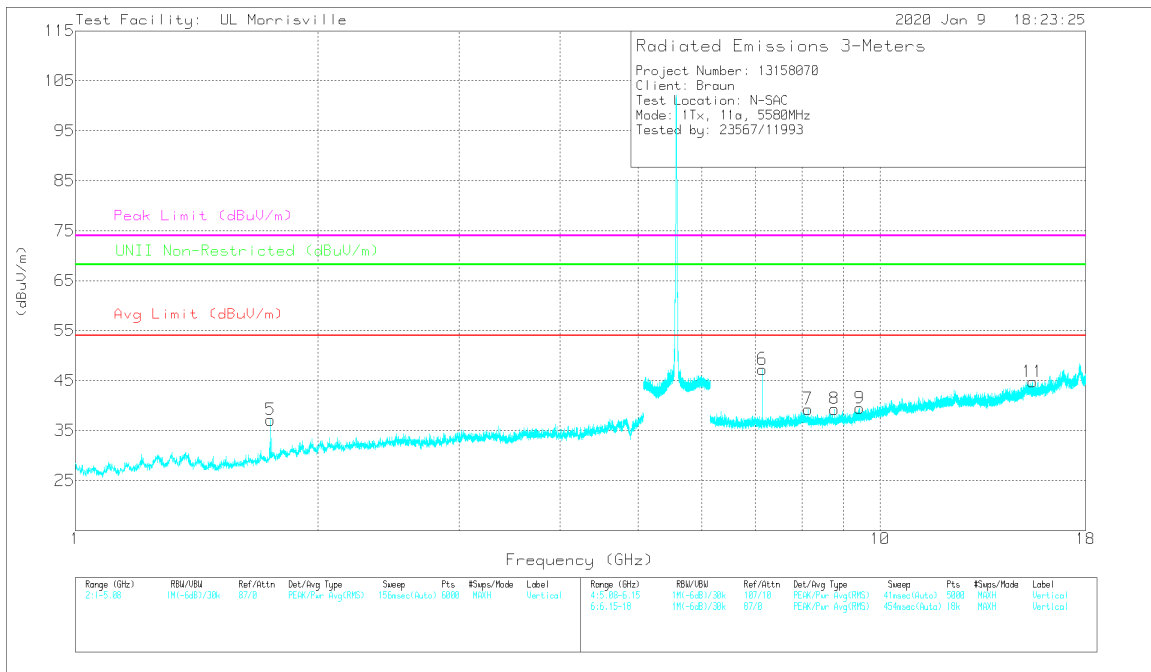
ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	** 1.73989	43	PK-U	29.6	-35.4	0	37.2	-	-	-	-	68.2	-31	237	342	H
	** 1.74152	29.62	ADV	29.6	-35.4	.64	24.46	-	-	-	-	-	-	237	342	H
10	*** 4.72312	41.32	PK-U	33.9	-31.7	0	43.52	-	-	74	-30.48	-	-	285	399	H
	*** 4.72406	28.22	ADV	33.9	-31.7	.64	31.06	54	-22.94	-	-	-	-	285	399	H
5	** 1.7494	42.81	PK-U	29.7	-35.5	0	37.01	-	-	-	-	68.2	-31.19	24	364	V
	** 1.74932	30.02	ADV	29.7	-35.5	.64	24.86	-	-	-	-	-	-	24	364	V
3	*** 12.5581	35.81	PK-U	38.9	-26.5	0	48.21	-	-	74	-25.79	-	-	84	169	H
	*** 12.5577	22.71	ADV	38.9	-26.5	.64	35.75	54	-18.25	-	-	-	-	84	169	H
4	*** 16.07928	36.4	PK-U	40.5	-25.4	0	51.5	-	-	74	-22.5	-	-	336	155	H
	*** 16.07915	22.68	ADV	40.5	-25.4	.64	38.42	54	-15.58	-	-	-	-	336	155	H
7	*** 8.13443	37.39	PK-U	35.8	-28.9	0	44.29	-	-	74	-29.71	-	-	96	304	V
	*** 8.13457	24.54	ADV	35.8	-28.9	.64	32.08	54	-21.92	-	-	-	-	96	304	V
9	*** 9.43253	37.22	PK-U	36.4	-28.5	0	45.12	-	-	74	-28.88	-	-	294	126	V
	*** 9.43117	23.99	ADV	36.4	-28.5	.64	32.53	54	-21.47	-	-	-	-	294	126	V
11	*** 15.47262	35.64	PK-U	40.1	-25.1	0	50.64	-	-	74	-23.36	-	-	67	194	V
	*** 15.47153	22.26	ADV	40.1	-25.1	.64	37.9	54	-16.1	-	-	-	-	67	194	V
2	7.13684	46.06	PK-U	35.7	-30.2	0	51.56	-	-	-	-	68.2	-16.64	172	102	H
6	7.13747	42.14	PK-U	35.7	-30.2	0	47.64	-	-	-	-	68.2	-20.56	281	106	V
8	8.7799	37.24	PK-U	36	-28.9	0	44.34	-	-	-	-	68.2	-23.86	42	202	V

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

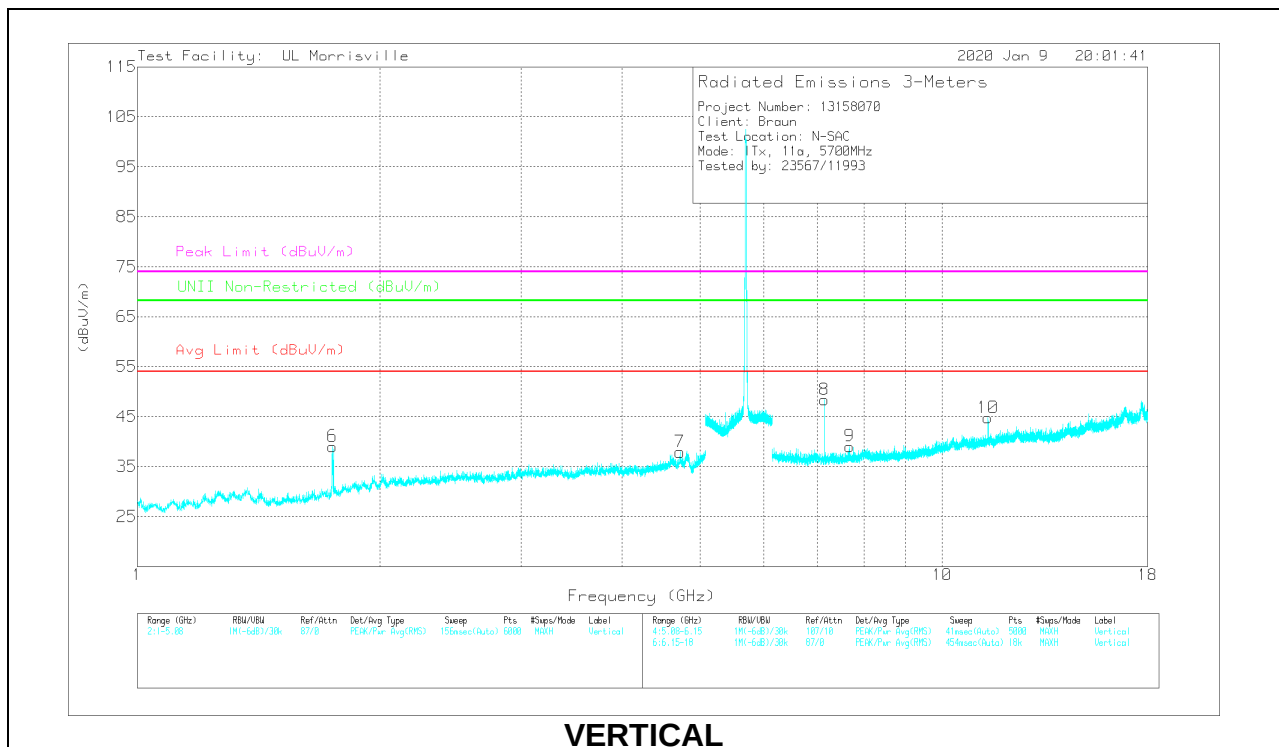
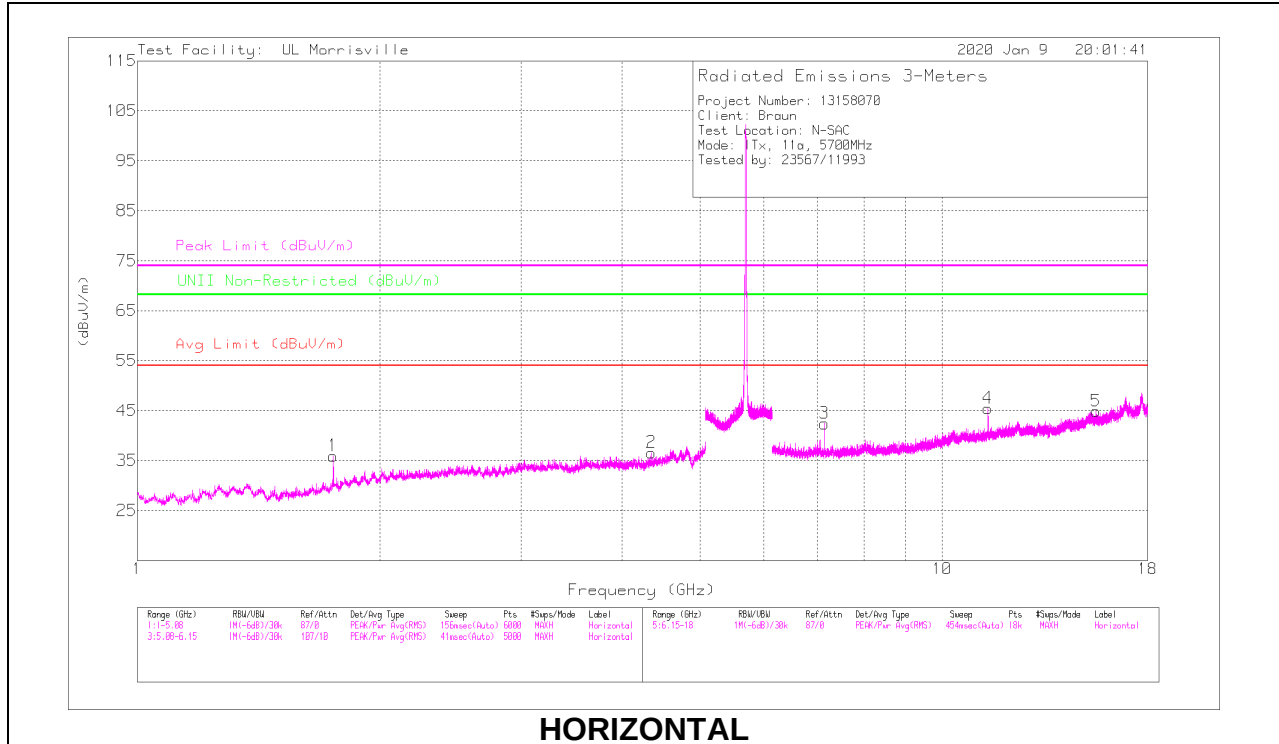
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	** 1.75146	44.1	PK-U	29.7	-35.5	0	38.3	-	-	-	-	68.2	-29.9	334	342	H
	** 1.75291	30.4	ADV	29.7	-35.5	.64	25.24	-	-	-	-	-	-	334	342	H
2	* ** 4.3531	42.53	PK-U	33.7	-32.1	0	44.13	-	-	74	-29.87	-	-	44	182	H
	* ** 4.35256	27.34	ADV	33.7	-32.1	.64	29.58	54	-24.42	-	-	-	-	44	182	H
6	** 1.74825	43.83	PK-U	29.7	-35.5	0	38.03	-	-	-	-	68.2	-30.17	110	240	V
	** 1.74818	30.01	ADV	29.7	-35.5	.64	24.85	-	-	-	-	-	-	110	240	V
7	* ** 4.72225	41.62	PK-U	33.9	-31.7	0	43.82	-	-	74	-30.18	-	-	243	273	V
	* ** 4.72289	28.17	ADV	33.9	-31.7	.64	31.01	54	-22.99	-	-	-	-	243	273	V
4	* ** 11.39861	40.89	PK-U	38	-26.1	0	52.79	-	-	74	-21.21	-	-	46	102	H
	* ** 11.39845	26.79	ADV	38	-26.1	.64	39.33	54	-14.67	-	-	-	-	46	102	H
5	* ** 15.53118	36.24	PK-U	40.2	-24.8	0	51.64	-	-	74	-22.36	-	-	243	172	H
	* ** 15.53116	22.63	ADV	40.2	-24.8	.64	38.67	54	-15.33	-	-	-	-	243	172	H
9	* ** 7.67474	38.01	PK-U	35.8	-29.3	0	44.51	-	-	74	-29.49	-	-	274	271	V
	* ** 7.67495	24.8	ADV	35.8	-29.3	.64	31.94	54	-22.06	-	-	-	-	274	271	V
10	* ** 11.40186	40.51	PK-U	38	-26.1	0	52.41	-	-	74	-21.59	-	-	265	102	V
	* ** 11.40179	26.43	ADV	38	-26.1	.64	38.97	54	-15.03	-	-	-	-	265	102	V
3	7.13683	45.84	PK-U	35.7	-30.2	0	51.34	-	-	-	-	68.2	-16.86	172	103	H
8	7.13696	42.22	PK-U	35.7	-30.2	0	47.72	-	-	-	-	68.2	-20.48	271	379	V

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

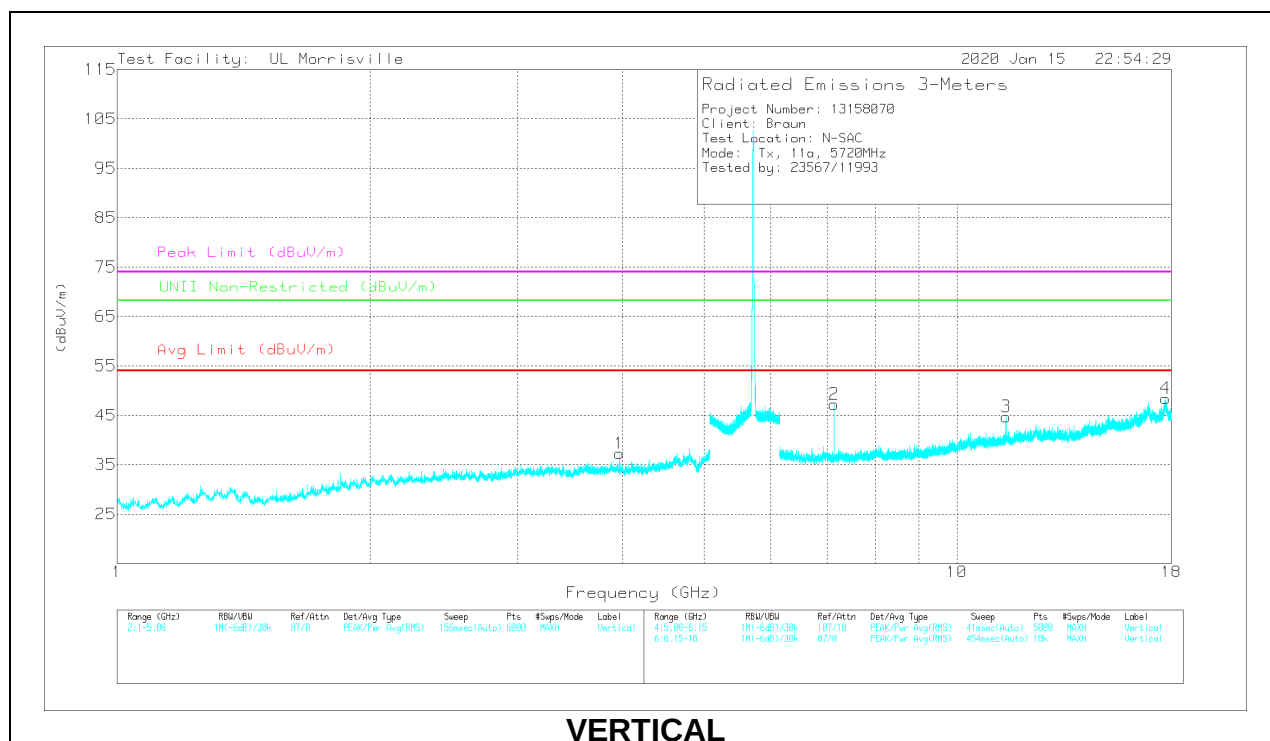
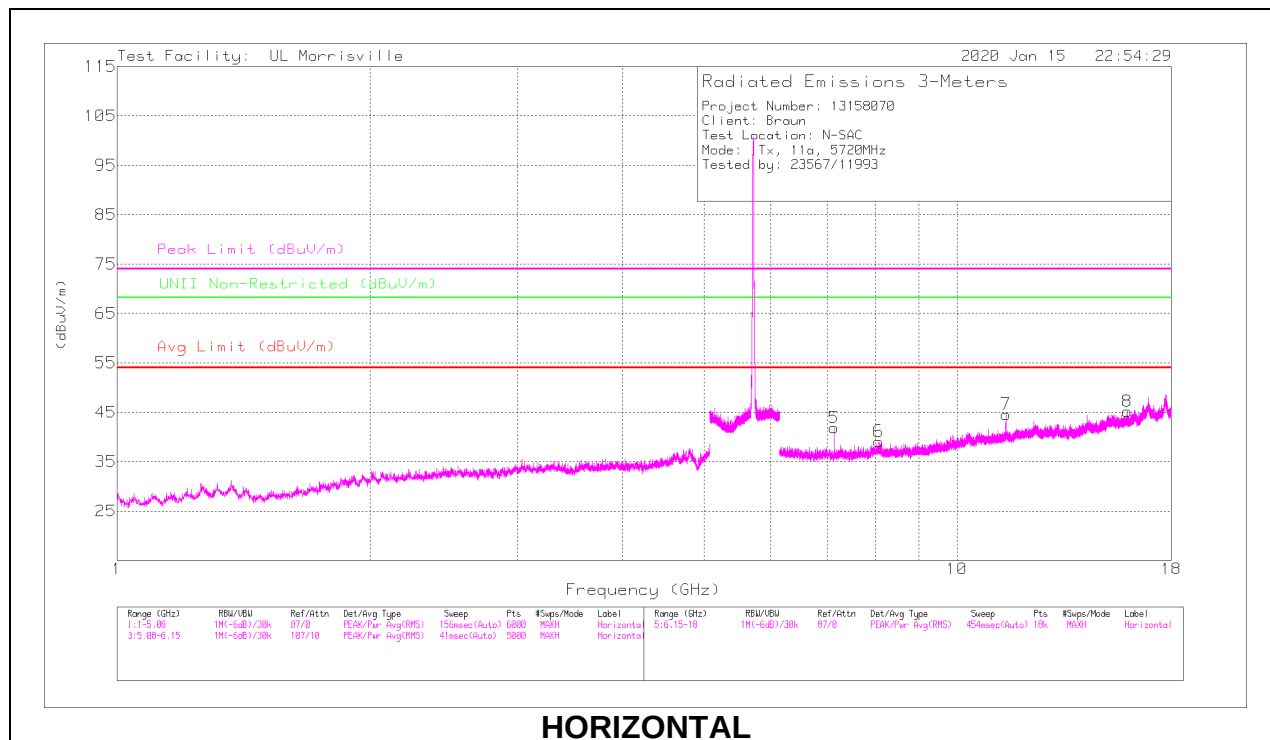
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

CHANNEL 144 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	* ** 3.96518	44.33	PK-U	33.4	-32.5	0	45.23	-	-	74	-28.77	-	-	134	188	V
	* ** 3.96499	32.52	ADV	33.4	-32.5	.64	34.06	54	-19.94	-	-	-	-	134	188	V
6	* ** 8.06724	37.33	PK-U	35.8	-28	0	45.13	-	-	74	-28.87	-	-	207	125	H
	* ** 8.06676	23.87	ADV	35.8	-28	.64	32.31	54	-21.69	-	-	-	-	207	125	H
7	* ** 11.44313	38.11	PK-U	38.1	-25.7	0	50.51	-	-	74	-23.49	-	-	46	123	H
	* ** 11.44235	24.87	ADV	38.1	-25.7	.64	37.91	54	-16.09	-	-	-	-	46	123	H
8	* ** 15.94397	37.01	PK-U	40.4	-26.8	0	50.61	-	-	74	-23.39	-	-	70	141	H
	* ** 15.94342	23.92	ADV	40.3	-26.8	.64	38.06	54	-15.94	-	-	-	-	70	141	H
3	* ** 11.4398	38.66	PK-U	38.1	-25.7	0	51.06	-	-	74	-22.94	-	-	274	102	V
	* ** 11.44014	24.4	ADV	38.1	-25.7	.64	37.44	54	-16.56	-	-	-	-	274	102	V
4	* ** 17.72586	34.26	PK-U	41.1	-20.3	0	55.06	-	-	74	-18.94	-	-	336	144	V
	* ** 17.72558	20.84	ADV	41.1	-20.4	.64	42.18	54	-11.82	-	-	-	-	336	144	V
5	7.13686	42.43	PK-U	35.7	-30.2	0	47.93	-	-	-	-	68.2	-20.27	231	307	H
2	7.13692	45.32	PK-U	35.7	-30.2	0	50.82	-	-	-	-	68.2	-17.38	165	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

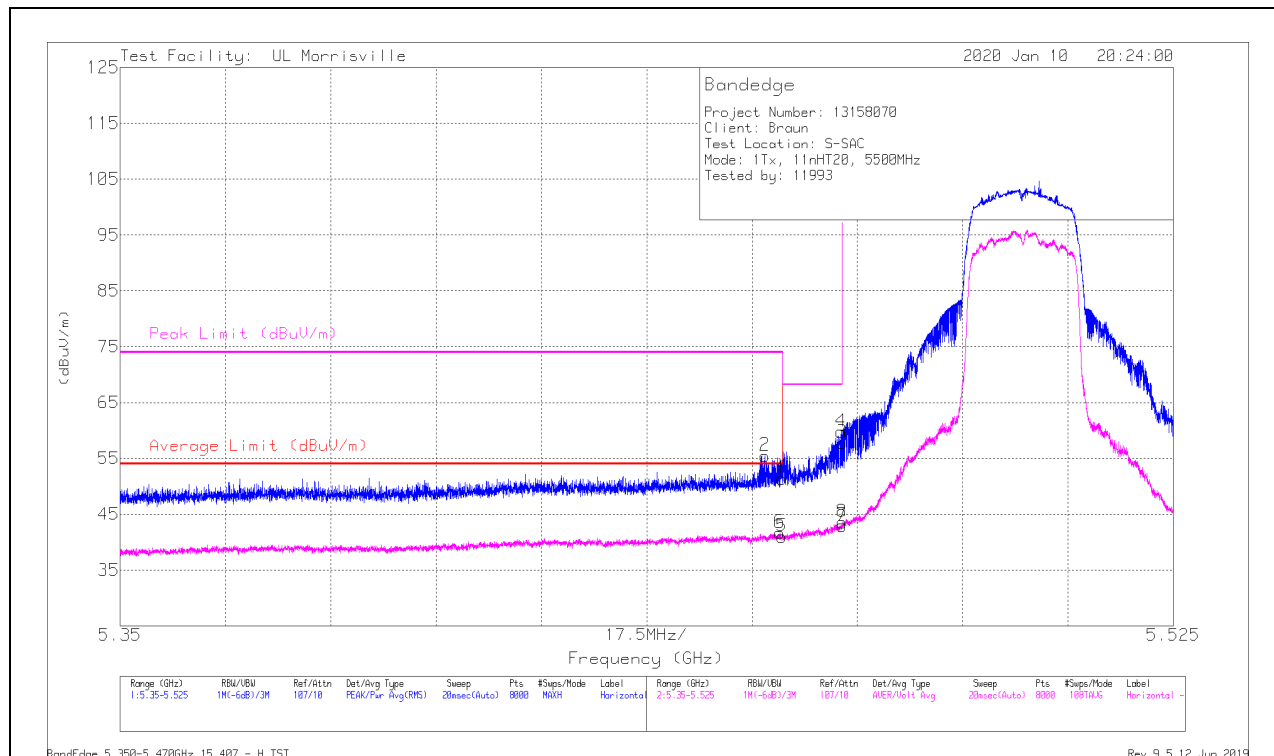
Pk - Peak detector

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)	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	40.27	Pk	34.5	-23.4	0	51.37	-	-	74	-22.63	277	276	H
2	* ** 5.45714	44.38	Pk	34.5	-23.4	0	55.48	-	-	74	-18.52	277	276	H
5	* ** 5.45998	29.24	ADV	34.5	-23.4	.68	41.02	54	-12.98	-	-	277	276	H
6	* ** 5.45959	29.92	ADV	34.5	-23.4	.68	41.7	54	-12.3	-	-	277	276	H
4	5.4698	48.78	Pk	34.5	-23.5	0	59.78	-	-	68.2	-8.42	277	276	H
8	5.46996	31.89	ADV	34.5	-23.5	.68	43.57	-	-	-	-	277	276	H
3	5.46998	46.77	Pk	34.5	-23.5	0	57.77	-	-	68.2	-10.43	277	276	H
7	5.46998	31.29	ADV	34.5	-23.5	.68	42.97	-	-	-	-	277	276	H

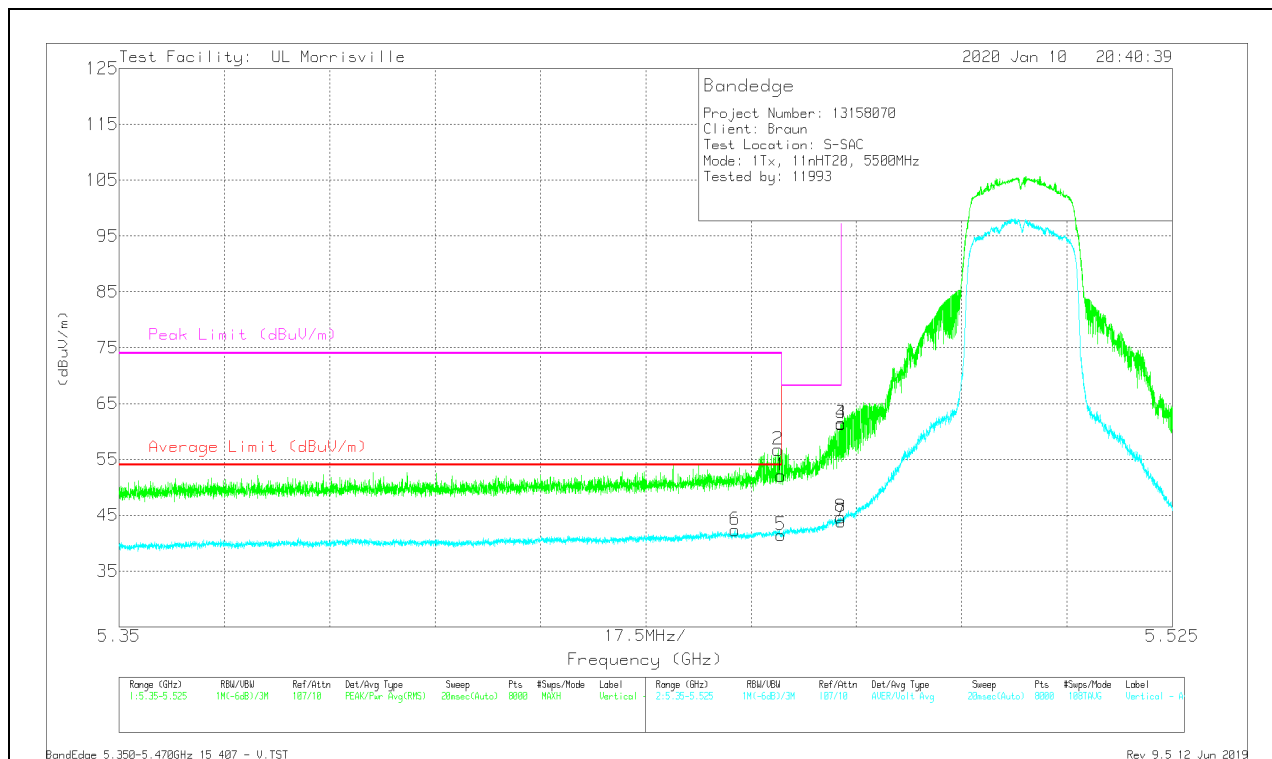
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (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	41	Pk	34.5	-23.4	0	52.1	-	-	74	-21.9	144	195	V
2	*** 5.45948	45.63	Pk	34.5	-23.4	0	56.73	-	-	74	-17.27	144	195	V
5	*** 5.45998	29.66	ADV	34.5	-23.4	.68	41.44	54	-12.56	-	-	144	195	V
6	*** 5.45235	30.48	ADV	34.5	-23.3	.68	42.36	54	-11.64	-	-	144	195	V
8	5.46989	32.98	ADV	34.5	-23.5	.68	44.66	-	-	-	-	144	195	V
4	5.46996	50.34	Pk	34.5	-23.5	0	61.34	-	-	68.2	-6.86	144	195	V
3	5.46998	50.48	Pk	34.5	-23.5	0	61.48	-	-	68.2	-6.72	144	195	V
7	5.46998	32.2	ADV	34.5	-23.5	.68	43.88	-	-	-	-	144	195	V

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

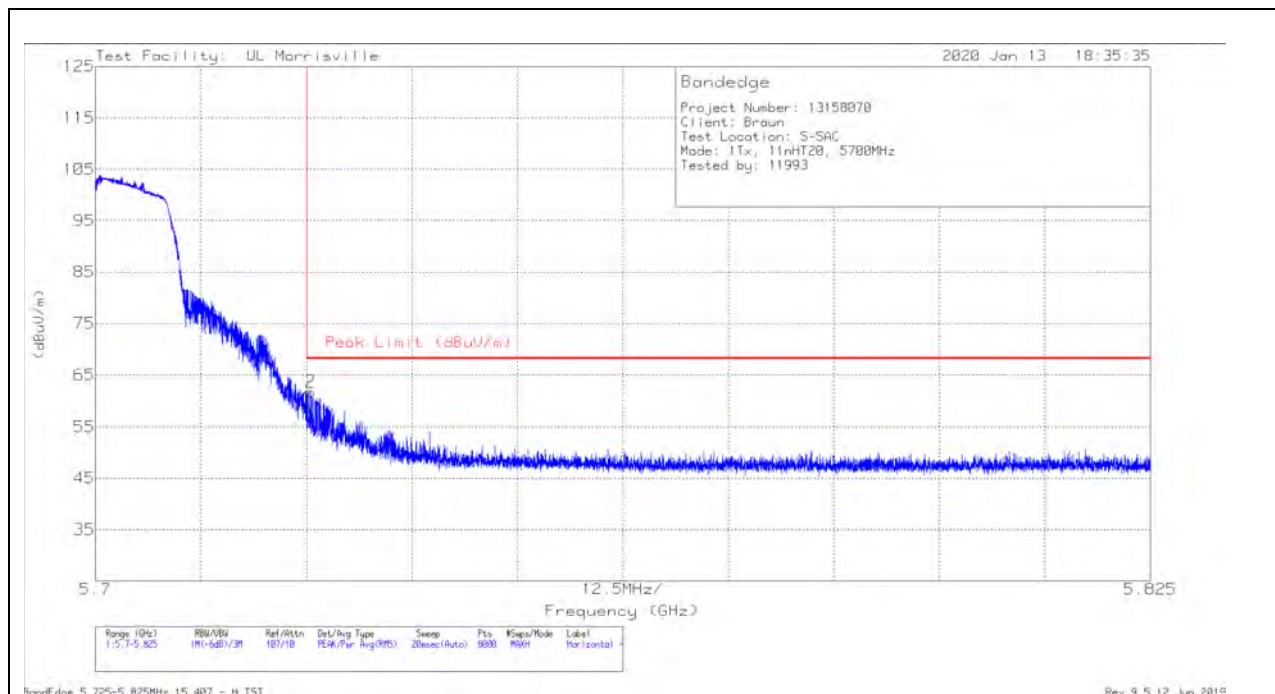
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

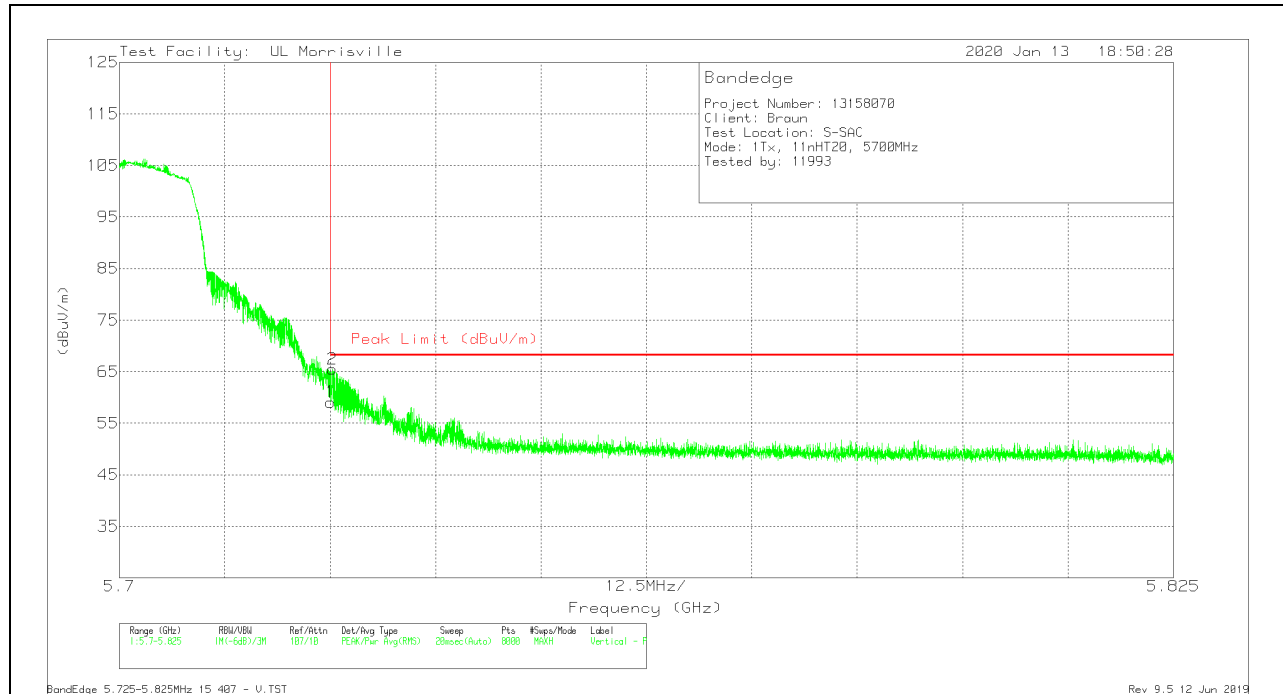
HORIZONTAL RESULT



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	47.42	Pk	34.7	-23.3	58.82	68.2	-9.38	286	310	H
2	5.72549	50.37	Pk	34.7	-23.3	61.77	68.2	-6.43	286	310	H

Pk - Peak detector

VERTICAL RESULT

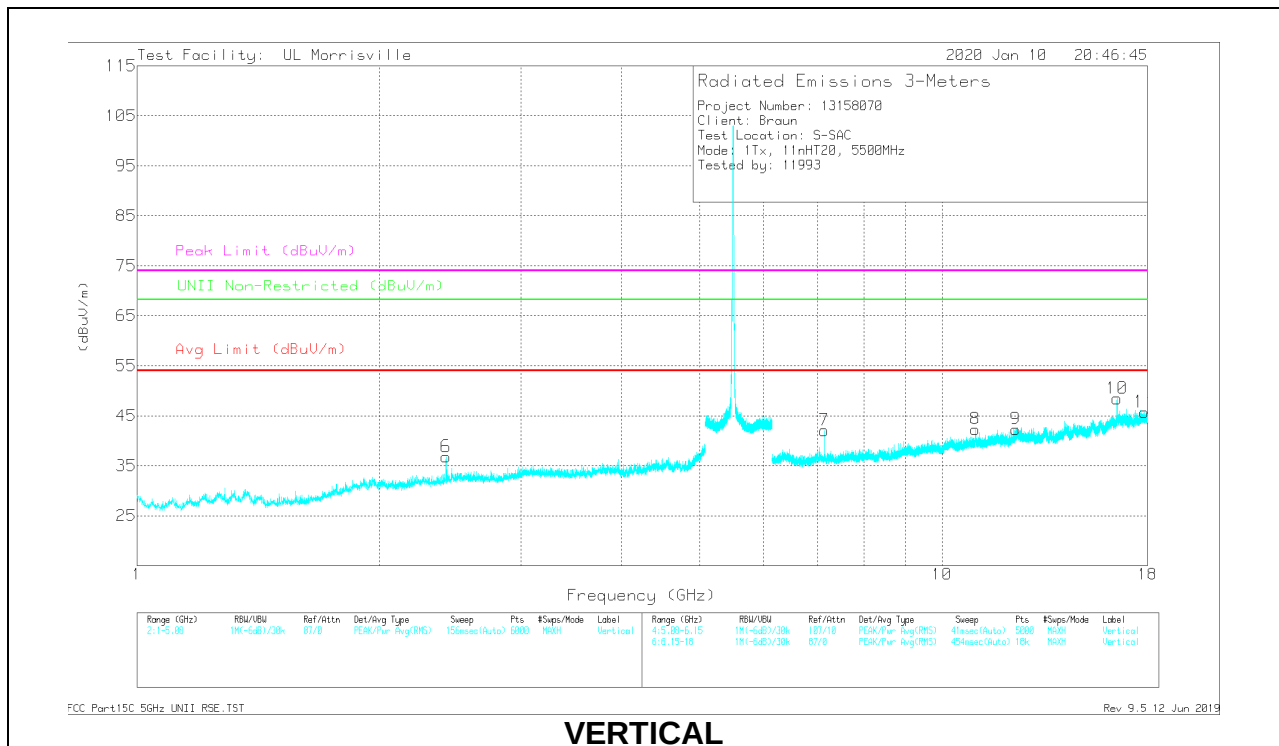
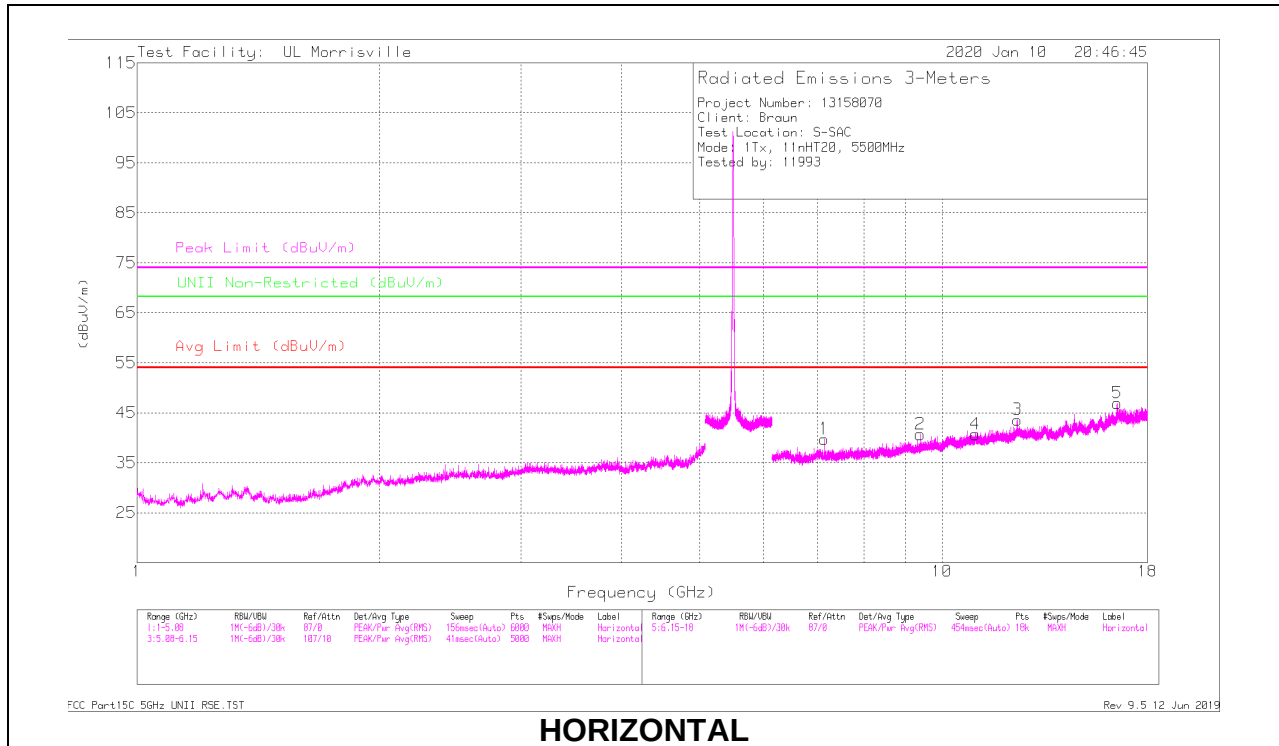


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.71	Pk	34.7	-23.3	59.11	68.2	-9.09	175	102	V
2	5.72524	54.06	Pk	34.7	-23.3	65.46	68.2	-2.74	175	102	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	*** 9.39784	35.1	PK-U	36.9	-26.5	0	45.5	-	-	74	-28.5	-	-	242	304	H
	*** 9.39786	22.24	ADV	36.9	-26.5	.68	33.32	54	-20.68	-	-	-	-	242	304	H
3	*** 12.40837	33.69	PK-U	38.8	-23.4	0	49.09	-	-	74	-24.91	-	-	52	315	H
	*** 12.40845	20.29	ADV	38.8	-23.4	.68	36.37	54	-17.63	-	-	-	-	52	315	H
4	*** 11.00446	35.89	PK-U	37.9	-24.6	0	49.19	-	-	74	-24.81	-	-	126	103	H
	*** 11.00434	22.14	ADV	37.9	-24.6	.68	36.12	54	-17.88	-	-	-	-	126	103	H
8	*** 11.0004	37.47	PK-U	37.9	-24.6	0	50.77	-	-	74	-23.23	-	-	217	126	V
	*** 11.00019	23.67	ADV	37.9	-24.6	.68	37.65	54	-16.35	-	-	-	-	217	126	V
9	*** 12.3419	33.96	PK-U	38.8	-23.9	0	48.86	-	-	74	-25.14	-	-	303	159	V
	*** 12.34185	20.94	ADV	38.8	-23.9	.68	36.52	54	-17.48	-	-	-	-	303	159	V
11	*** 17.84209	32.95	PK-U	41.2	-22.3	0	51.85	-	-	74	-22.15	-	-	244	310	V
	*** 17.84318	20.54	ADV	41.2	-22.3	.68	40.12	54	-13.88	-	-	-	-	244	310	V
6	2.41956	49.55	PK-U	32	-34	0	47.55	-	-	-	-	68.2	-20.65	93	112	V
1	7.13697	39.08	PK-U	35.7	-28.5	0	46.28	-	-	-	-	68.2	-21.92	323	110	H
7	7.13703	40.97	PK-U	35.7	-28.5	0	48.17	-	-	-	-	68.2	-20.03	202	122	V
10	16.49898	37.21	PK-U	41.4	-23.3	0	55.31	-	-	-	-	68.2	-12.89	31	105	V
5	16.5066	36.58	PK-U	41.4	-23.2	0	54.78	-	-	-	-	68.2	-13.42	24	197	H

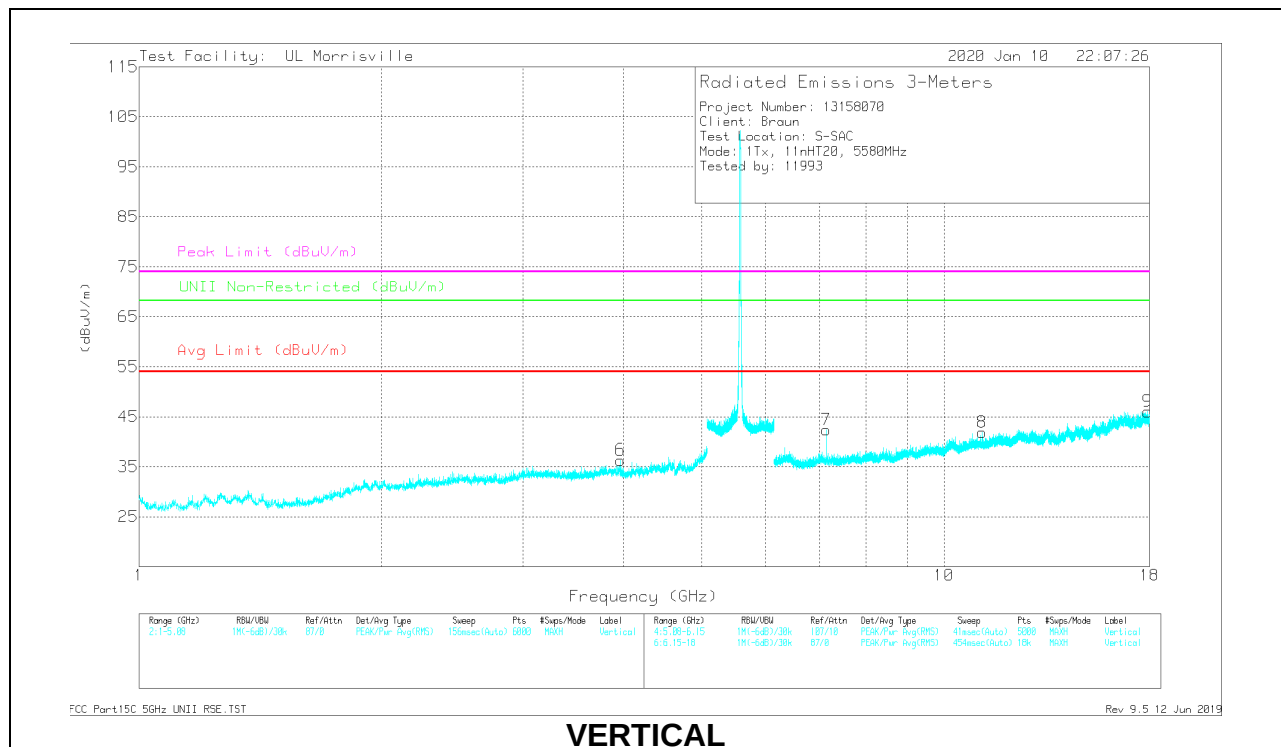
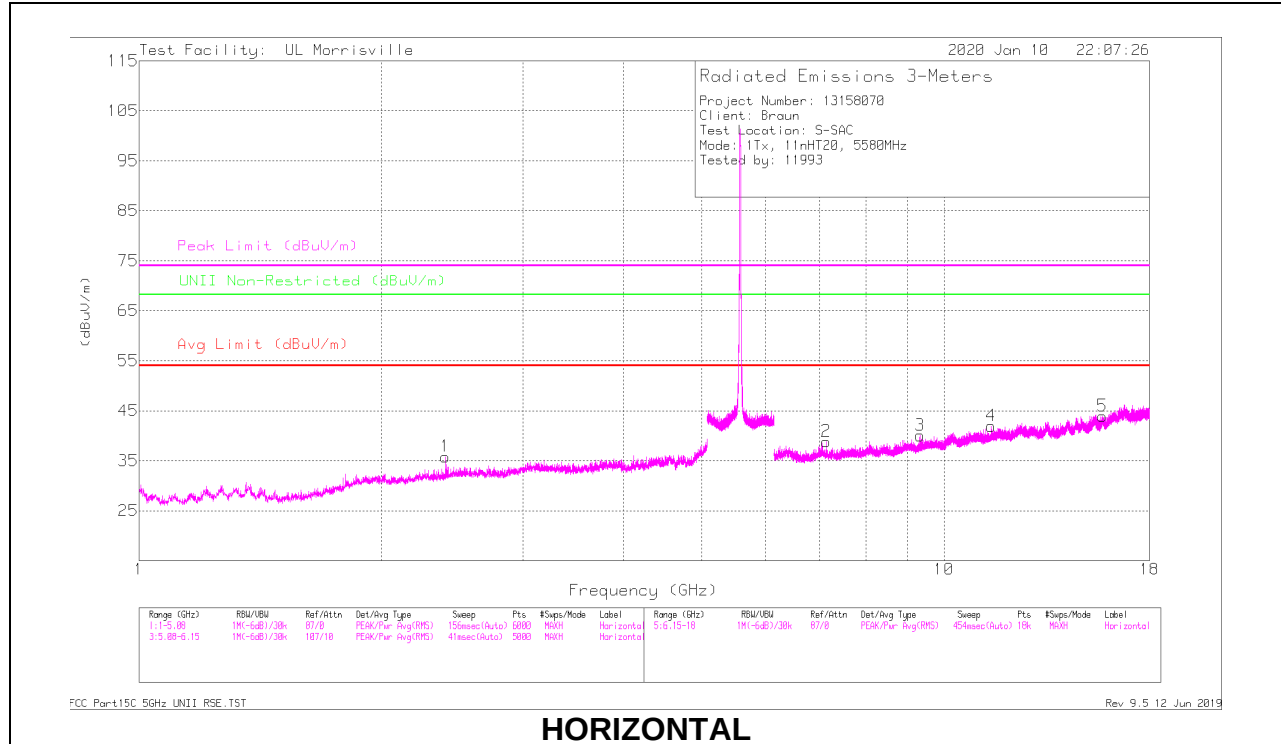
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	*** 3.96482	46.37	PK-U	33.4	-31.6	0	48.17	-	-	74	-25.83	-	-	152	153	V
	*** 3.965	31.02	ADV	33.4	-31.6	.68	33.5	54	-20.5	-	-	-	-	152	153	V
3	*** 9.34439	35.84	PK-U	36.8	-26.5	0	46.14	-	-	74	-27.86	-	-	249	131	H
	*** 9.34409	22.4	ADV	36.8	-26.5	.68	33.38	54	-20.62	-	-	-	-	249	131	H
4	*** 11.44893	33.94	PK-U	38.1	-24.5	0	47.54	-	-	74	-26.46	-	-	314	234	H
	*** 11.44803	21.11	ADV	38.1	-24.5	.68	35.39	54	-18.61	-	-	-	-	314	234	H
5	*** 15.73445	32.8	PK-U	40.3	-22.8	0	50.3	-	-	74	-23.7	-	-	359	324	H
	*** 15.73612	20.38	ADV	40.3	-22.8	.68	38.56	54	-15.44	-	-	-	-	359	324	H
8	*** 11.15707	35.94	PK-U	38	-24.6	0	49.34	-	-	74	-24.66	-	-	304	107	V
	*** 11.1568	22.26	ADV	38	-24.6	.68	36.34	54	-17.66	-	-	-	-	304	107	V
9	*** 17.9165	32.86	PK-U	41.2	-22	0	52.06	-	-	74	-21.94	-	-	78	196	V
	*** 17.91645	19.81	ADV	41.2	-22	.68	39.69	54	-14.31	-	-	-	-	78	196	V
1	2.40217	45.29	PK-U	31.9	-34.1	0	43.09	-	-	-	-	68.2	-25.11	19	237	H
2	7.1367	39.46	PK-U	35.7	-28.5	0	46.66	-	-	-	-	68.2	-21.54	322	101	H
7	7.13701	42.16	PK-U	35.7	-28.5	0	49.36	-	-	-	-	68.2	-18.84	213	139	V

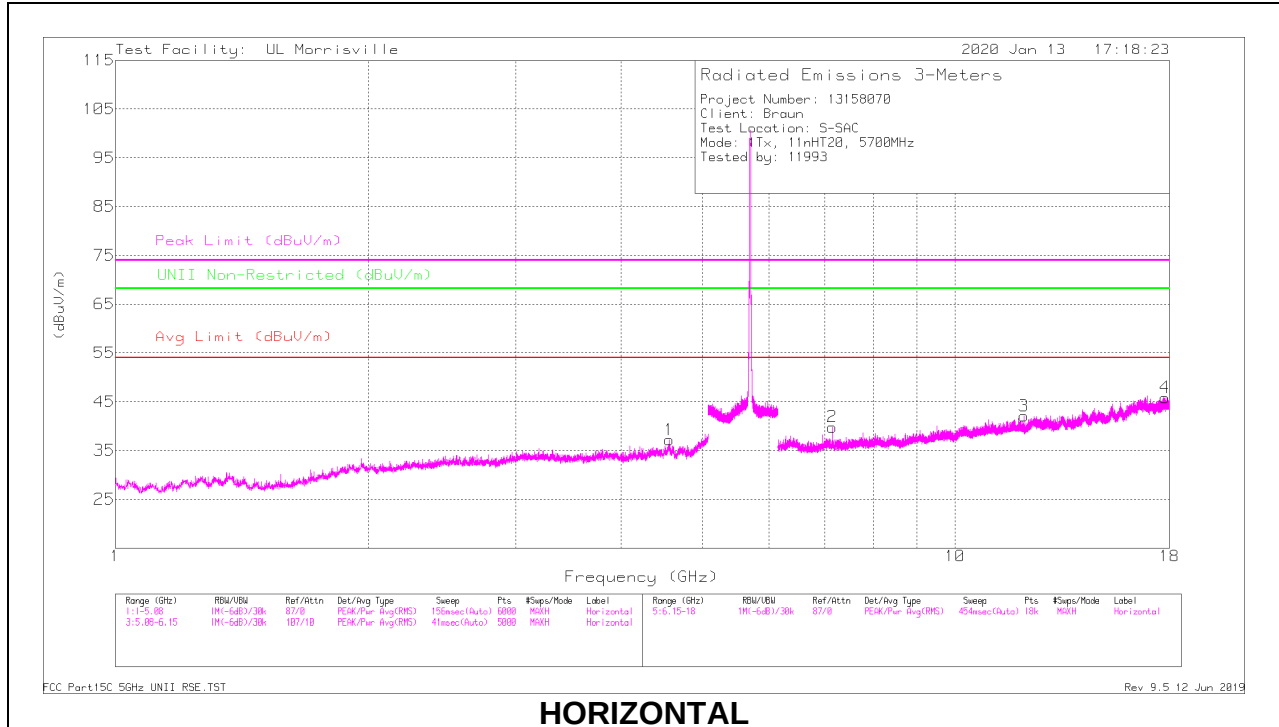
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

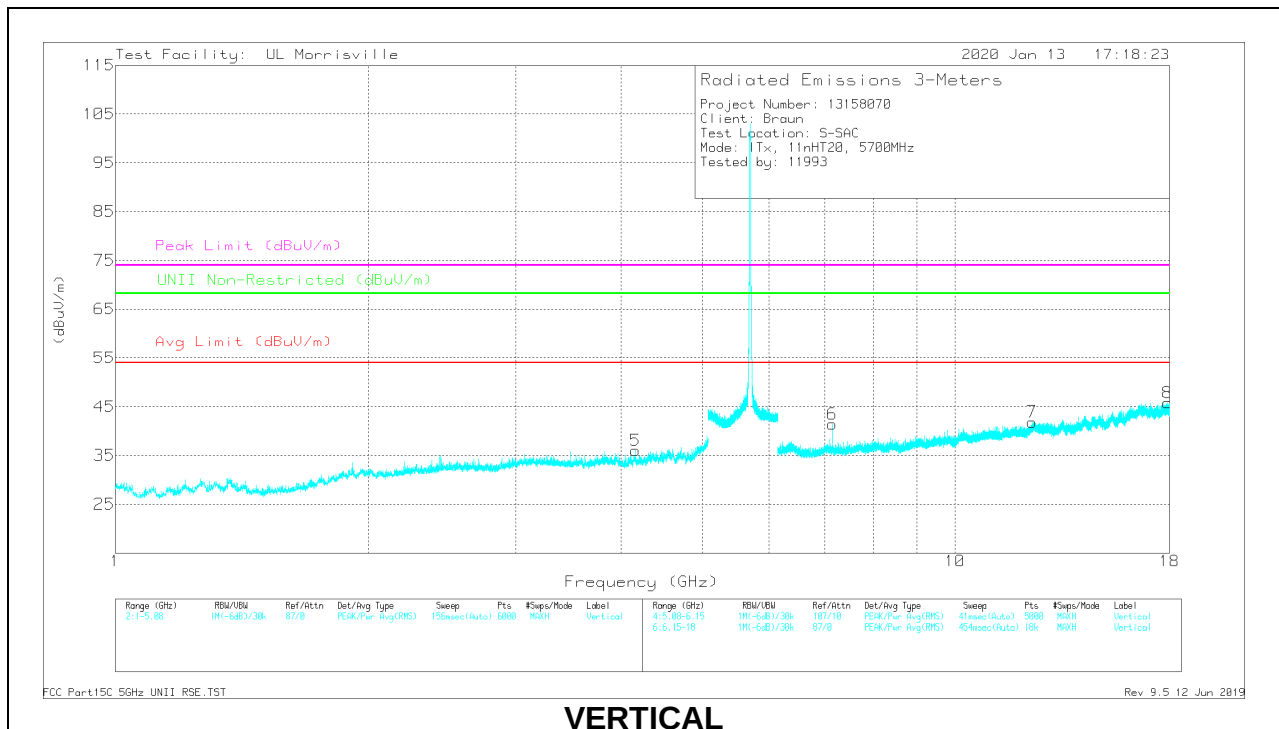
PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 4.56249	40.3	PK-U	34.1	-31.5	0	42.9	-	-	74	-31.1	-	-	285	368	H
	* ** 4.56214	27.26	ADV	34.1	-31.5	.68	30.54	54	-23.46	-	-	-	-	285	368	H
5	* ** 4.16677	39.36	PK-U	33.4	-31.4	0	41.36	-	-	74	-32.64	-	-	323	370	V
	* ** 4.16365	26.34	ADV	33.4	-31.4	.68	29.02	54	-24.98	-	-	-	-	323	370	V
3	* ** 12.08356	33.42	PK-U	38.8	-24.6	0	47.62	-	-	74	-26.38	-	-	240	283	H
	* ** 12.08286	20.84	ADV	38.8	-24.6	.68	35.72	54	-18.28	-	-	-	-	240	283	H
4	* ** 17.78866	33.41	PK-U	41.2	-22.2	0	52.41	-	-	74	-21.59	-	-	169	333	H
	* ** 17.79027	20.56	ADV	41.2	-22.2	.68	40.24	54	-13.76	-	-	-	-	169	333	H
7	* ** 12.35549	33.27	PK-U	38.8	-23.8	0	48.27	-	-	74	-25.73	-	-	160	292	V
	* ** 12.35319	20.9	ADV	38.8	-23.8	.68	36.58	54	-17.42	-	-	-	-	160	292	V
8	* ** 17.91122	32.95	PK-U	41.2	-22	0	52.15	-	-	74	-21.85	-	-	351	246	V
	* ** 17.91102	20.47	ADV	41.2	-21.9	.68	40.45	54	-13.55	-	-	-	-	351	246	V
6	7.13699	39.9	PK-U	35.7	-28.5	0	47.1	-	-	-	-	68.2	-21.1	224	129	V
2	7.13702	38.25	PK-U	35.7	-28.5	0	45.45	-	-	-	-	68.2	-22.75	323	119	H

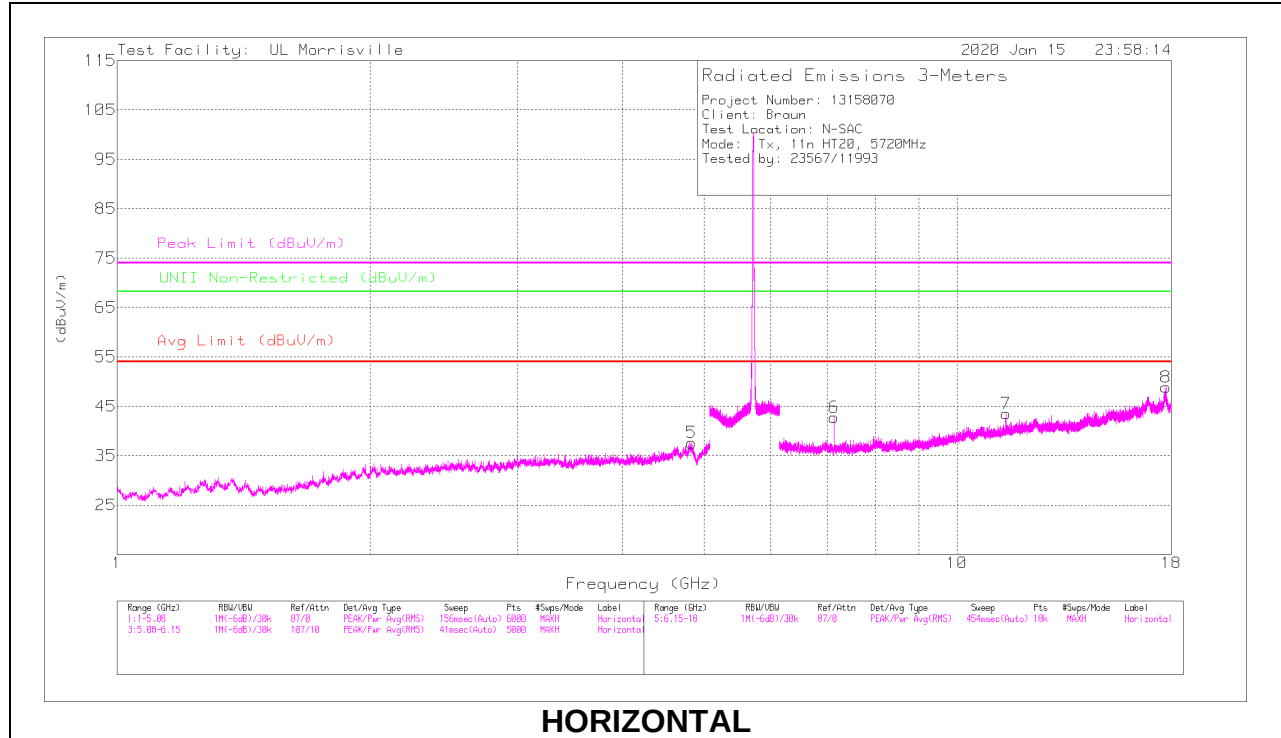
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

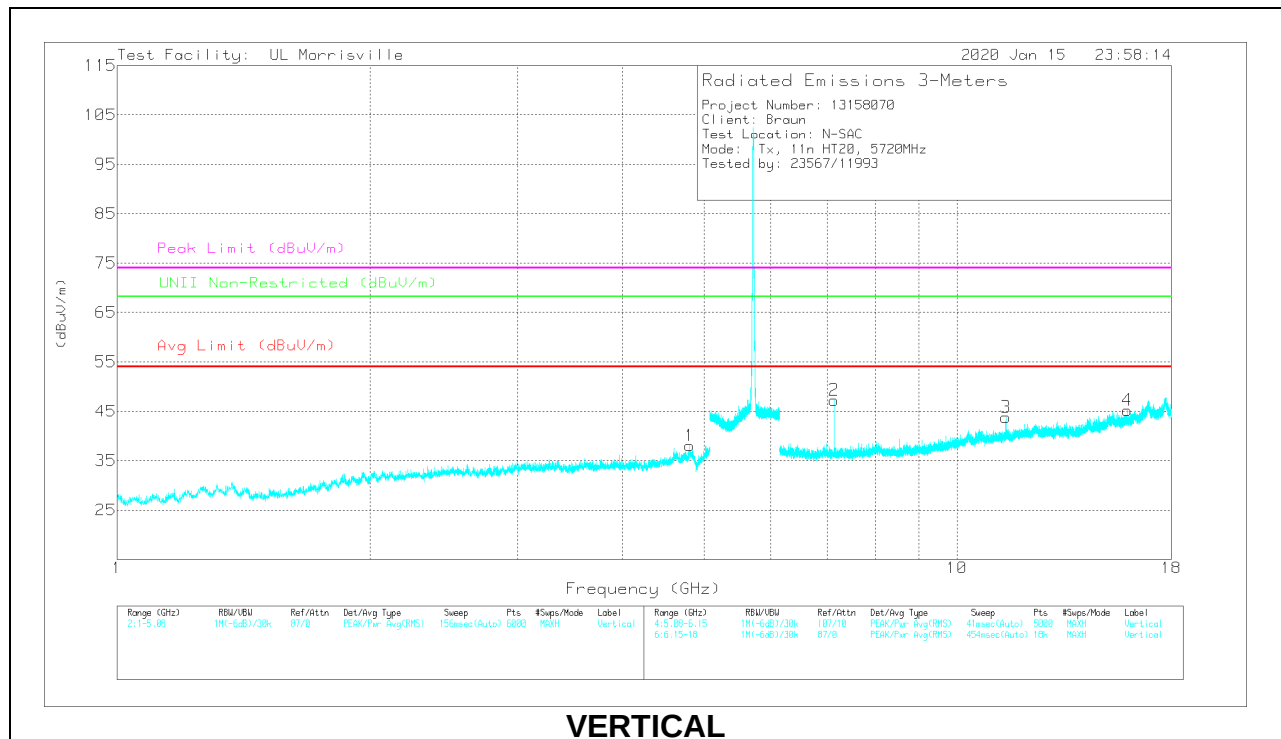
PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

CHANNEL 144 RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
5	*** 4.83024	41.07	PK-U	34.1	-31.1	0	44.07	-	-	74	-29.93	-	-	223	147	H
	** 4.83118	28.03	ADV	34.1	-31.1	.68	31.71	54	-22.29	-	-	-	-	223	147	H
1	*** 4.80816	41.73	PK-U	34.1	-30.8	0	45.03	-	-	74	-28.97	-	-	241	227	V
	*** 4.80733	28.37	ADV	34.1	-30.8	.68	32.35	54	-21.65	-	-	-	-	241	227	V
7	*** 11.44041	39.05	PK-U	38.1	-25.7	0	51.45	-	-	74	-22.55	-	-	43	102	H
	*** 11.44014	24.81	ADV	38.1	-25.7	.68	37.89	54	-16.11	-	-	-	-	43	102	H
8	*** 17.7382	34.07	PK-U	41.1	-20.3	0	54.87	-	-	74	-19.13	-	-	62	167	H
	*** 17.73798	20.81	ADV	41.1	-20.3	.68	42.29	54	-11.71	-	-	-	-	62	167	H
3	*** 11.43723	40.81	PK-U	38.1	-25.7	0	53.21	-	-	74	-20.79	-	-	179	102	V
	*** 11.43801	26.23	ADV	38.1	-25.7	.68	39.31	54	-14.69	-	-	-	-	179	102	V
4	*** 15.96236	37.34	PK-U	40.4	-27.1	0	50.64	-	-	74	-23.36	-	-	304	102	V
	*** 15.96138	24.34	ADV	40.4	-27.1	.68	38.32	54	-15.68	-	-	-	-	304	102	V
6	7.13699	45.83	PK-U	35.7	-30.2	0	51.33	-	-	-	-	68.2	-16.87	171	102	H
2	7.13725	41.83	PK-U	35.7	-30.2	0	47.33	-	-	-	-	68.2	-20.87	258	110	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

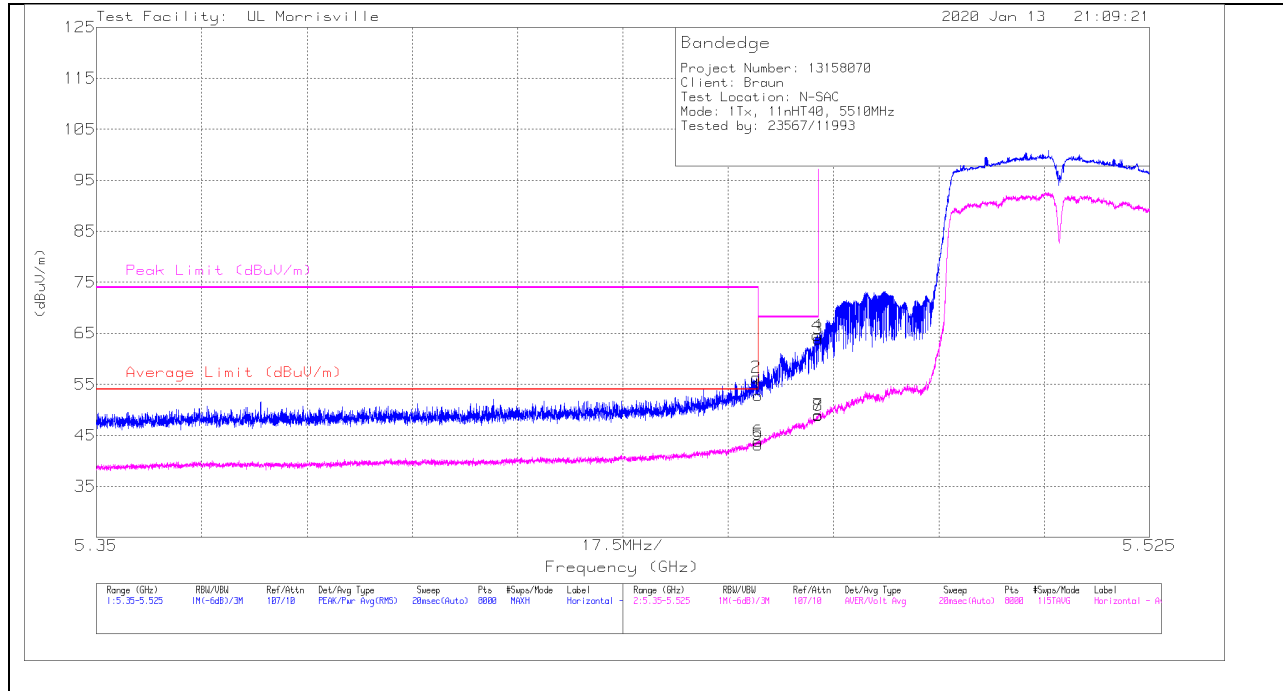
Pk - Peak detector

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	AT0067 AF (dBuV/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	41.37	Pk	34.4	-23	0	52.77	-	-	74	-21.23	197	128	H
2	*** 5.45967	44.91	Pk	34.4	-23	0	56.31	-	-	74	-17.69	197	128	H
5	*** 5.45998	30.52	ADV	34.4	-23	1.23	43.15	54	-10.85	-	-	197	128	H
6	*** 5.45996	31.16	ADV	34.4	-23	1.23	43.79	54	-10.21	-	-	197	128	H
4	5.4698	53.1	Pk	34.4	-22.9	0	64.6	-	-	68.2	-3.6	197	128	H
8	5.46991	36.09	ADV	34.4	-22.9	1.23	48.82	-	-	-	-	197	128	H
3	5.46998	52.44	Pk	34.4	-22.9	0	63.94	-	-	68.2	-4.26	197	128	H
7	5.46998	36.28	ADV	34.4	-22.9	1.23	49.02	-	-	-	-	197	128	H

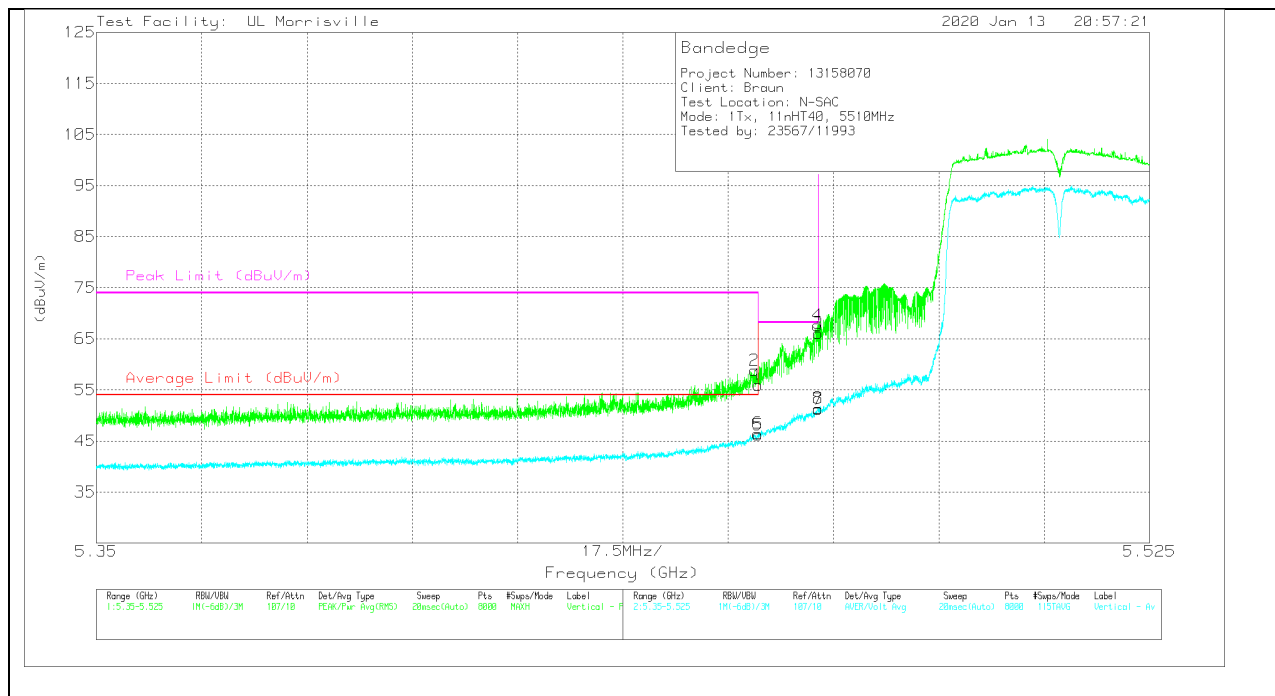
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	44.55	Pk	34.4	-23	0	55.95	-	-	74	-18.05	45	119	V
2	*** 5.4593	47.41	Pk	34.4	-23	0	58.81	-	-	74	-15.19	45	119	V
5	*** 5.45998	33.54	ADV	34.4	-23	1.23	46.17	54	-7.83	-	-	45	119	V
6	*** 5.45992	33.83	ADV	34.4	-23	1.23	46.46	54	-7.54	-	-	45	119	V
4	5.46983	56.12	Pk	34.4	-22.9	0	67.62	-	-	68.2	-5.8	45	119	V
8	5.46996	38.64	ADV	34.4	-22.9	1.23	51.37	-	-	-	-	45	119	V
3	5.46998	54.58	Pk	34.4	-22.9	0	66.08	-	-	68.2	-2.12	45	119	V
7	5.46998	38.44	ADV	34.4	-22.9	1.23	51.17	-	-	-	-	45	119	V

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

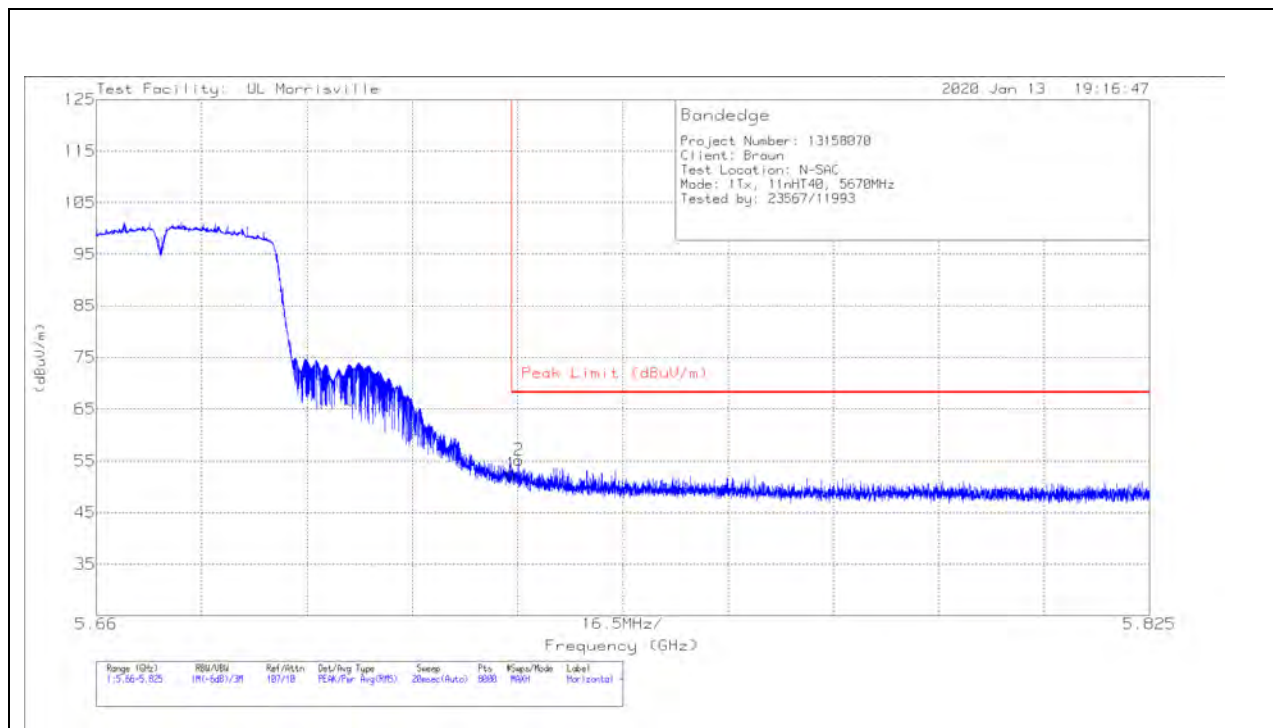
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

BANDEDGE (HIGH CHANNEL)

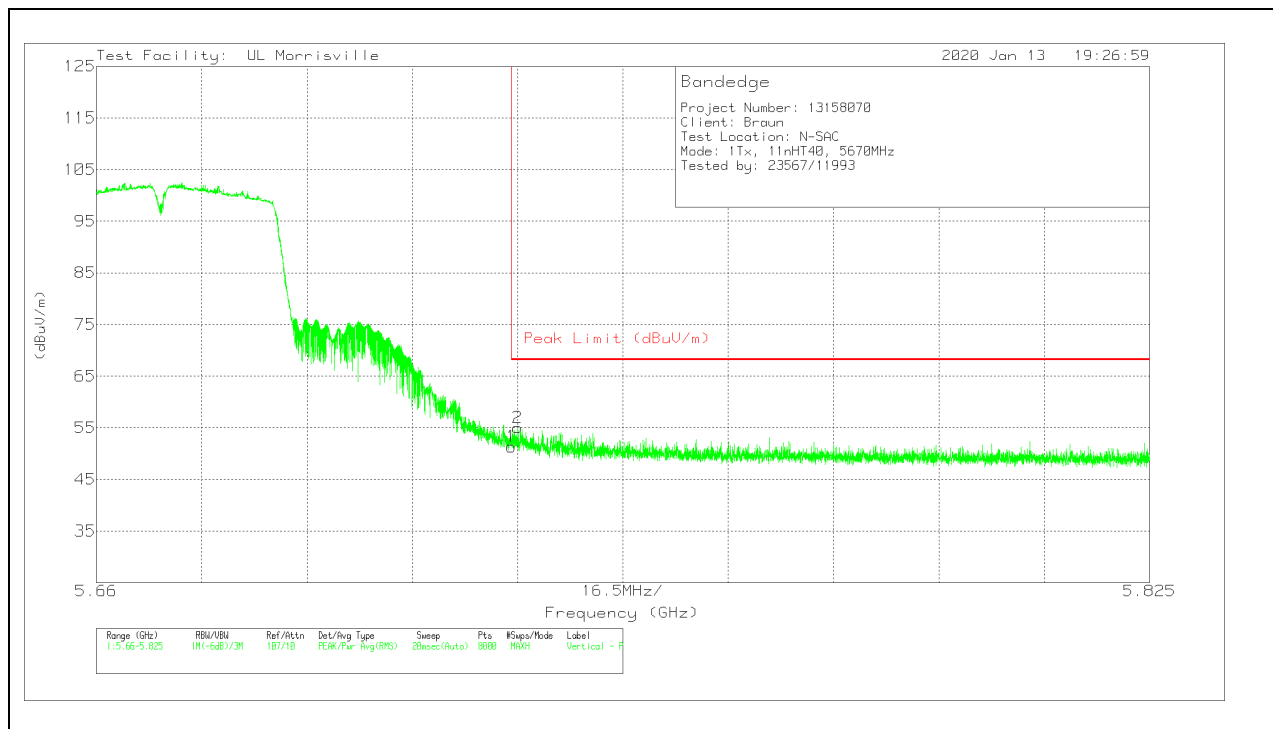
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	5.72502	40.93	Pk	34.6	-22.9	0	52.63	68.2	-15.57	355	119	H
2	5.72618	43.5	Pk	34.6	-22.9	0	55.2	68.2	-13	355	119	H

Pk - Peak detector

VERTICAL RESULT

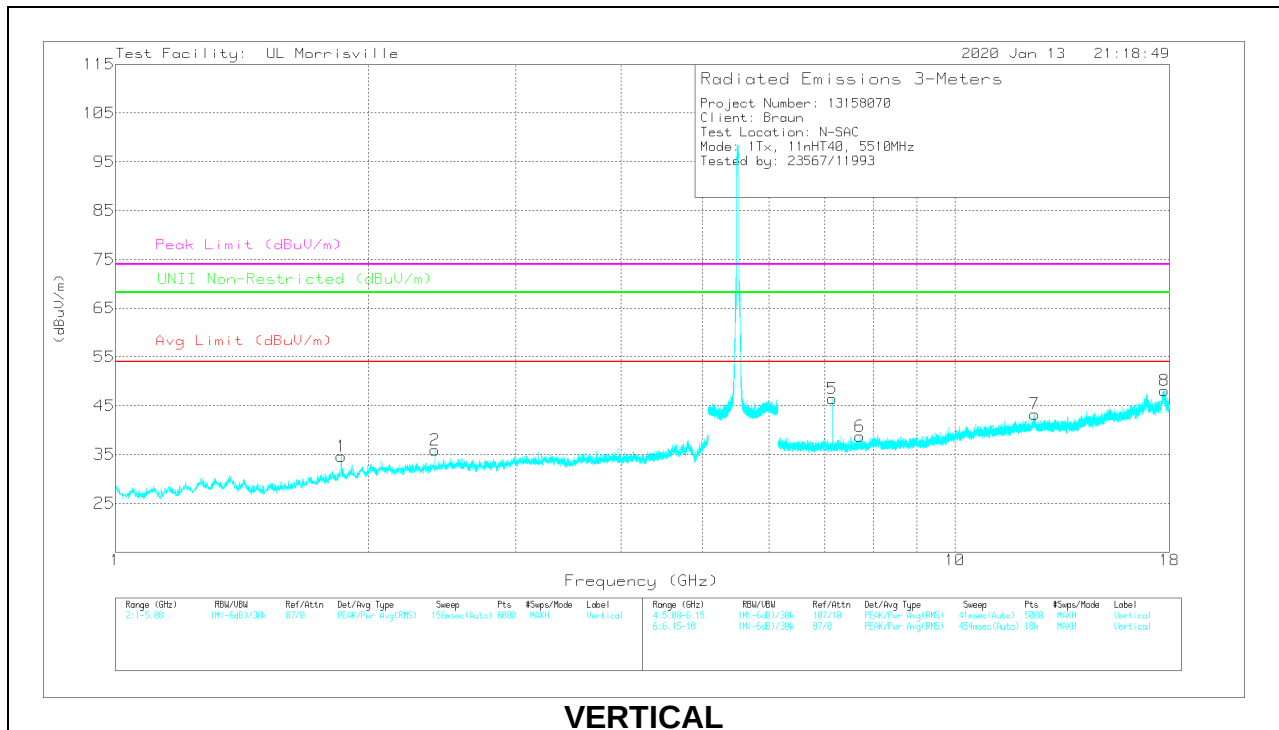
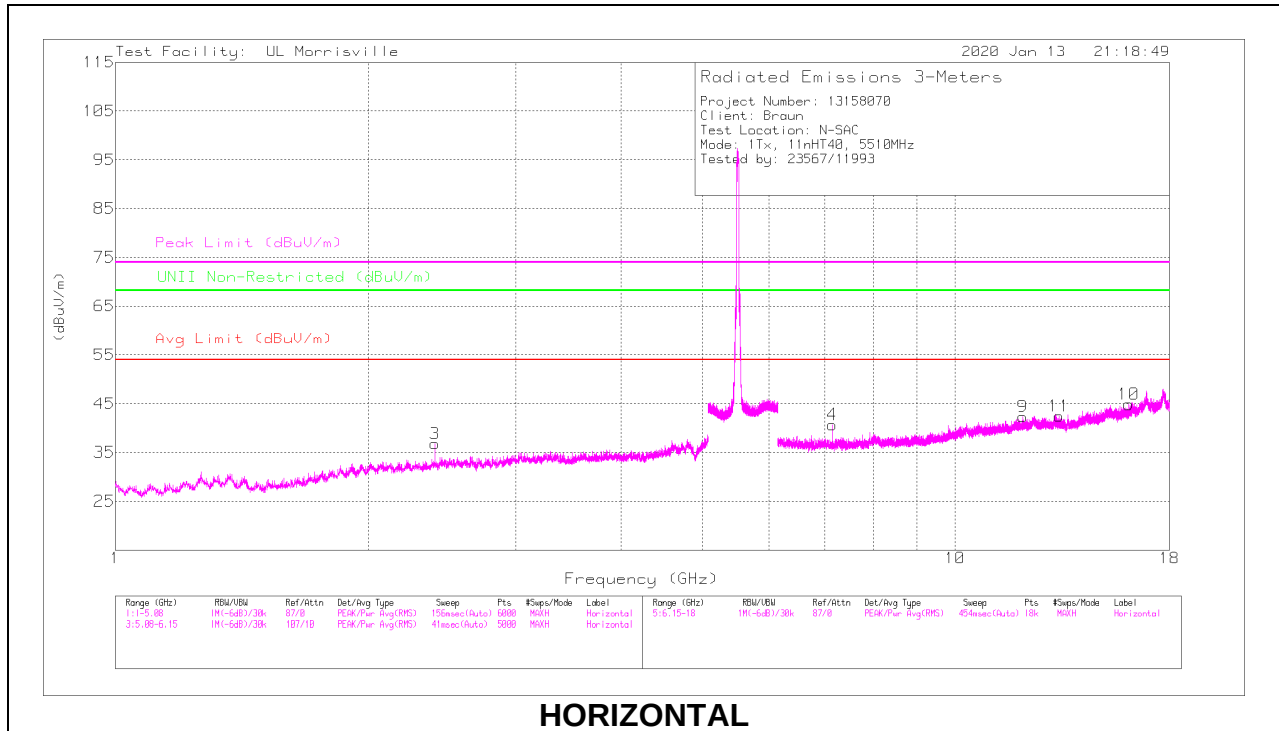


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.72502	39.65	Pk	34.6	-22.9	0	51.35	68.2	-16.85	119	123	V
2	5.72601	43.36	Pk	34.6	-22.9	0	55.06	68.2	-13.14	119	123	V

Pk - Peak detector

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	** 1.8589	43.33	PK-U	30.8	-35.5	0	38.63	-	-	74	-35.37	68.2	-29.57	295	249	V
	** 1.85816	30.18	ADV	30.8	-35.5	1.23	26.71	54	-27.29	-	-	-	-	295	249	V
9	*** 12.03632	34.92	PK-U	38.7	-26.2	0	47.42	-	-	74	-26.58	-	-	347	339	H
	*** 12.03465	22.16	ADV	38.7	-26.2	1.23	35.89	54	-18.11	-	-	-	-	347	339	H
10	*** 16.09008	34.89	PK-U	40.5	-25.2	0	50.19	-	-	74	-23.81	-	-	114	205	H
	*** 16.09016	21.92	ADV	40.5	-25.2	1.23	38.45	54	-15.55	-	-	-	-	114	205	H
11	*** 13.30306	37.29	PK-U	38.9	-27.8	0	48.39	-	-	74	-25.61	-	-	235	261	H
	*** 13.30123	24.09	ADV	38.9	-27.9	1.23	36.32	54	-17.68	-	-	-	-	235	261	H
6	*** 7.69962	37.79	PK-U	35.8	-29.2	0	44.39	-	-	74	-29.61	-	-	233	138	V
	*** 7.69927	24.62	ADV	35.8	-29.2	1.23	32.45	54	-21.55	-	-	-	-	233	138	V
7	*** 12.44337	35.14	PK-U	38.8	-25.2	0	48.74	-	-	74	-25.26	-	-	35	360	V
	*** 12.44176	21.85	ADV	38.8	-25.1	1.23	36.78	54	-17.22	-	-	-	-	35	360	V
8	*** 17.74055	33.86	PK-U	41.1	-20.4	0	54.56	-	-	74	-19.44	-	-	13	134	V
	*** 17.74043	20.68	ADV	41.1	-20.4	1.23	42.61	54	-11.39	-	-	-	-	13	134	V
3	2.40214	46.52	PK-U	32	-34.2	0	44.32	-	-	-	-	68.2	-23.88	2	108	H
2	2.40228	46.67	PK-U	32	-34.2	0	44.47	-	-	-	-	68.2	-23.73	116	271	V
4	7.13686	45.4	PK-U	35.7	-30.2	0	50.9	-	-	-	-	68.2	-17.3	172	102	H
5	7.13706	40.85	PK-U	35.7	-30.2	0	46.35	-	-	-	-	68.2	-21.85	268	389	V

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

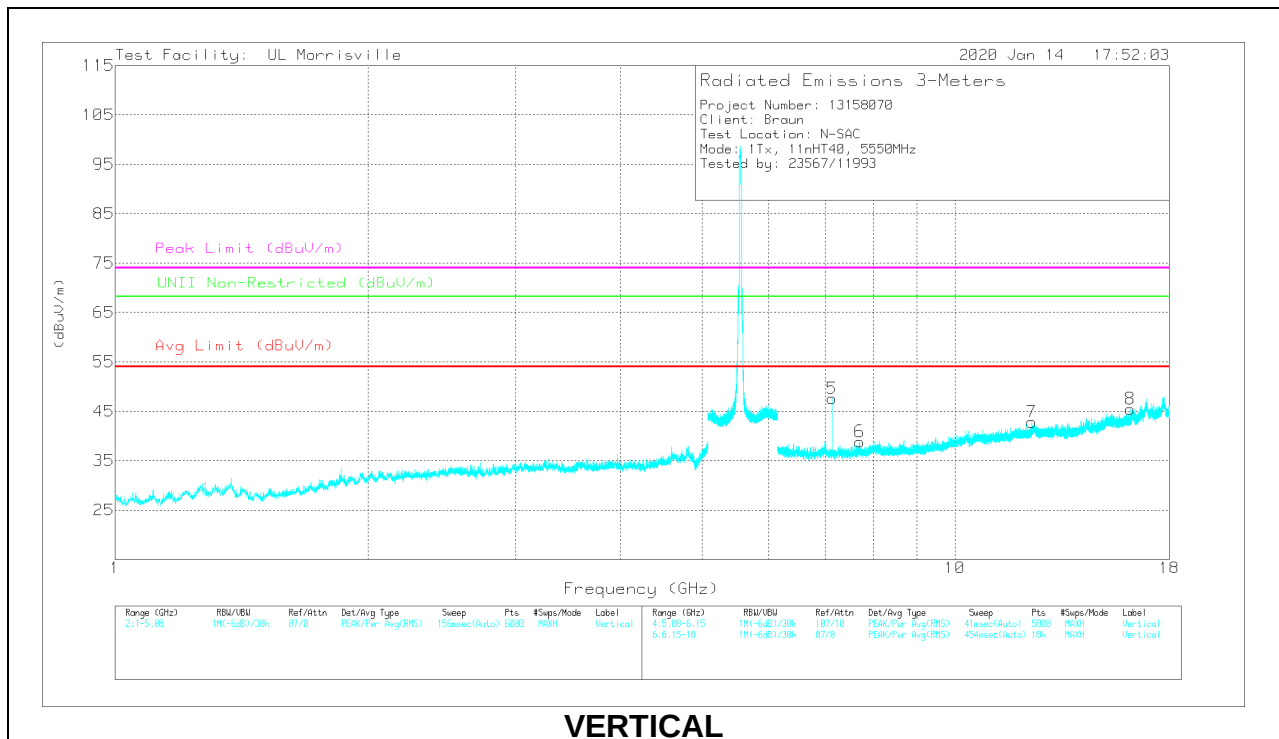
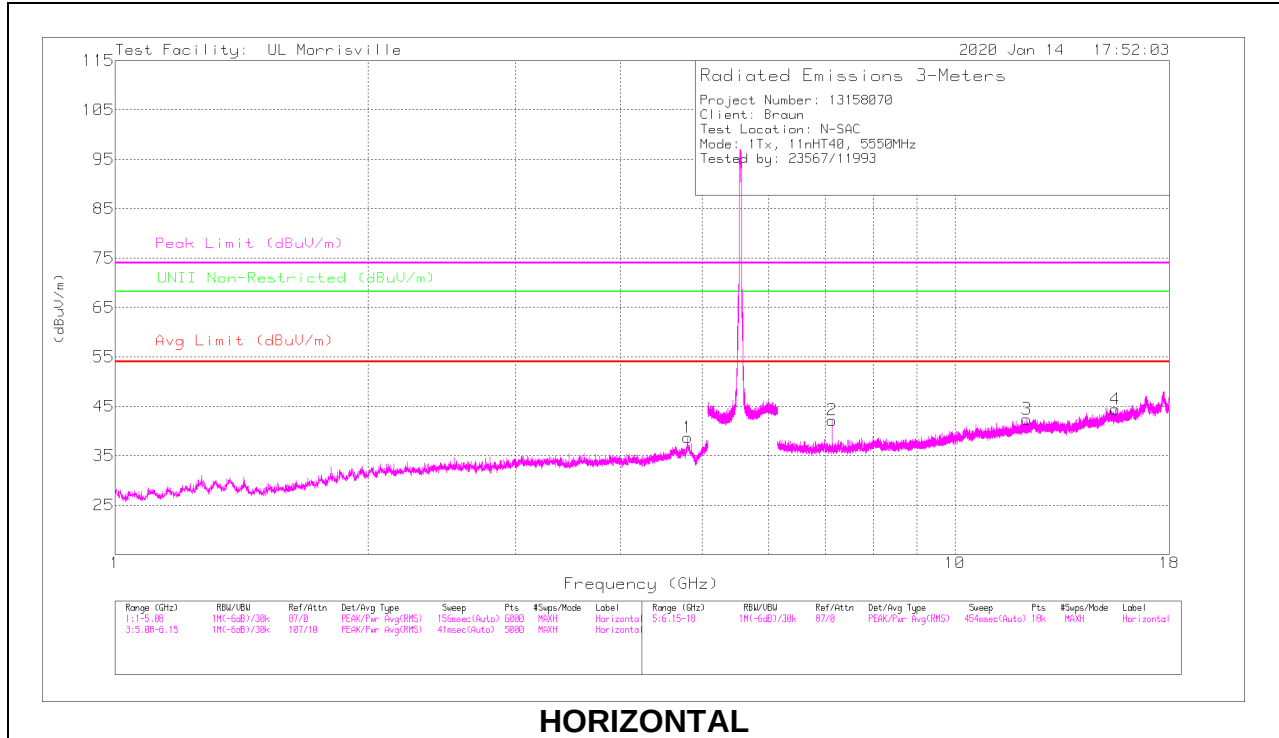
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

MID CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	*** 4.8035	41.22	PK-U	34.1	-30.8	0	44.52	-	-	74	-29.48	-	-	34	172	H
	*** 4.80296	28.42	ADV	34.1	-30.8	1.23	32.95	54	-21.05	-	-	-	-	34	172	H
3	*** 12.18113	35.23	PK-U	38.8	-26.3	0	47.73	-	-	74	-26.27	-	-	23	199	H
	*** 12.18074	22.13	ADV	38.8	-26.3	1.23	35.86	54	-18.14	-	-	-	-	23	199	H
4	*** 15.51877	35.7	PK-U	40.2	-24.8	0	51.1	-	-	74	-22.9	-	-	330	266	H
	*** 15.51821	21.63	ADV	40.2	-24.8	1.23	38.26	54	-15.74	-	-	-	-	330	266	H
6	*** 7.70029	37.78	PK-U	35.8	-29.2	0	44.38	-	-	74	-29.62	-	-	177	240	V
	*** 7.69989	24.68	ADV	35.8	-29.2	1.23	32.51	54	-21.49	-	-	-	-	177	240	V
7	*** 12.35173	35.94	PK-U	38.8	-25.5	0	49.24	-	-	74	-24.76	-	-	76	375	V
	*** 12.35138	22.02	ADV	38.8	-25.5	1.23	36.55	54	-17.45	-	-	-	-	76	375	V
8	*** 16.17931	36.22	PK-U	40.5	-25.9	0	50.82	-	-	74	-23.18	-	-	284	254	V
	*** 16.17871	23.22	ADV	40.5	-25.9	1.23	39.05	54	-14.95	-	-	-	-	284	254	V
2	7.13689	45.38	PK-U	35.7	-30.2	0	50.88	-	-	-	-	68.2	-17.32	168	102	H
5	7.13746	42.21	PK-U	35.7	-30.2	0	47.71	-	-	-	-	68.2	-20.49	256	117	V

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

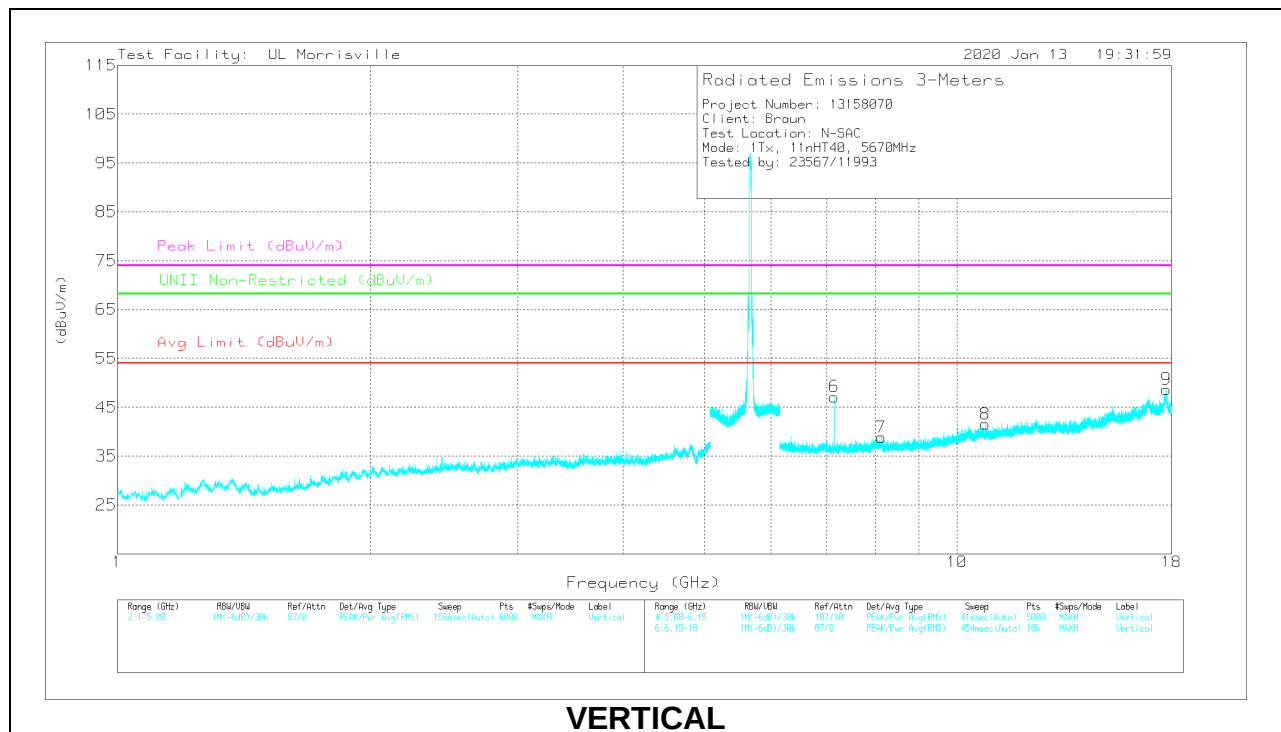
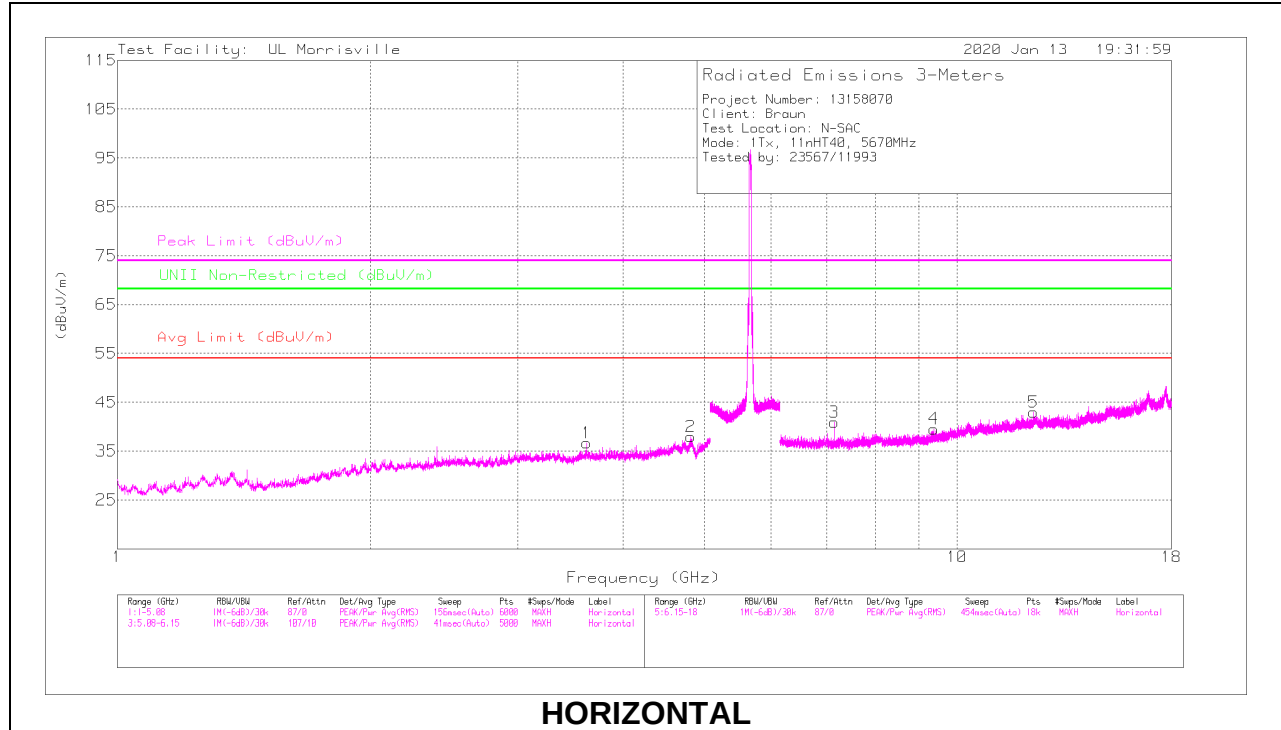
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	* ** 3.61974	40.42	PK-U	33.1	-32.1	0	41.42	-	-	74	-32.58	-	-	186	184	H
	* ** 3.62023	27.25	ADV	33.1	-32.1	1.23	29.48	54	-24.52	-	-	-	-	186	184	H
2	* ** 4.81806	41.46	PK-U	34.1	-30.9	0	44.66	-	-	74	-29.34	-	-	236	298	H
	* ** 4.81651	28.42	ADV	34.1	-30.9	1.23	32.85	54	-21.15	-	-	-	-	236	298	H
4	* ** 9.38454	37.15	PK-U	36.4	-28.4	0	45.15	-	-	74	-28.85	-	-	113	110	H
	* ** 9.38443	24.08	ADV	36.4	-28.4	1.23	33.31	54	-20.69	-	-	-	-	113	110	H
5	* ** 12.32933	35.43	PK-U	38.8	-26	0	48.23	-	-	74	-25.77	-	-	336	104	H
	* ** 12.32897	22.43	ADV	38.8	-26	1.23	36.46	54	-17.54	-	-	-	-	336	104	H
7	* ** 8.12692	37.98	PK-U	35.8	-28.8	0	44.98	-	-	74	-29.02	-	-	220	241	V
	* ** 8.12652	24.83	ADV	35.8	-28.8	1.23	33.06	54	-20.94	-	-	-	-	220	241	V
8	* ** 10.80834	35.77	PK-U	37.7	-26.6	0	46.87	-	-	74	-27.13	-	-	111	310	V
	* ** 10.80802	22.46	ADV	37.7	-26.6	1.23	34.79	54	-19.21	-	-	-	-	111	310	V
9	* ** 17.74241	34.06	PK-U	41.1	-20.4	0	54.76	-	-	74	-19.24	-	-	15	304	V
	* ** 17.7426	20.53	ADV	41.1	-20.4	1.23	42.46	54	-11.54	-	-	-	-	15	304	V
6	7.13695	45.88	PK-U	35.7	-30.2	0	51.38	-	-	-	-	68.2	-16.82	172	102	V
3	7.13706	41.85	PK-U	35.7	-30.2	0	47.35	-	-	-	-	68.2	-20.85	266	105	H

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

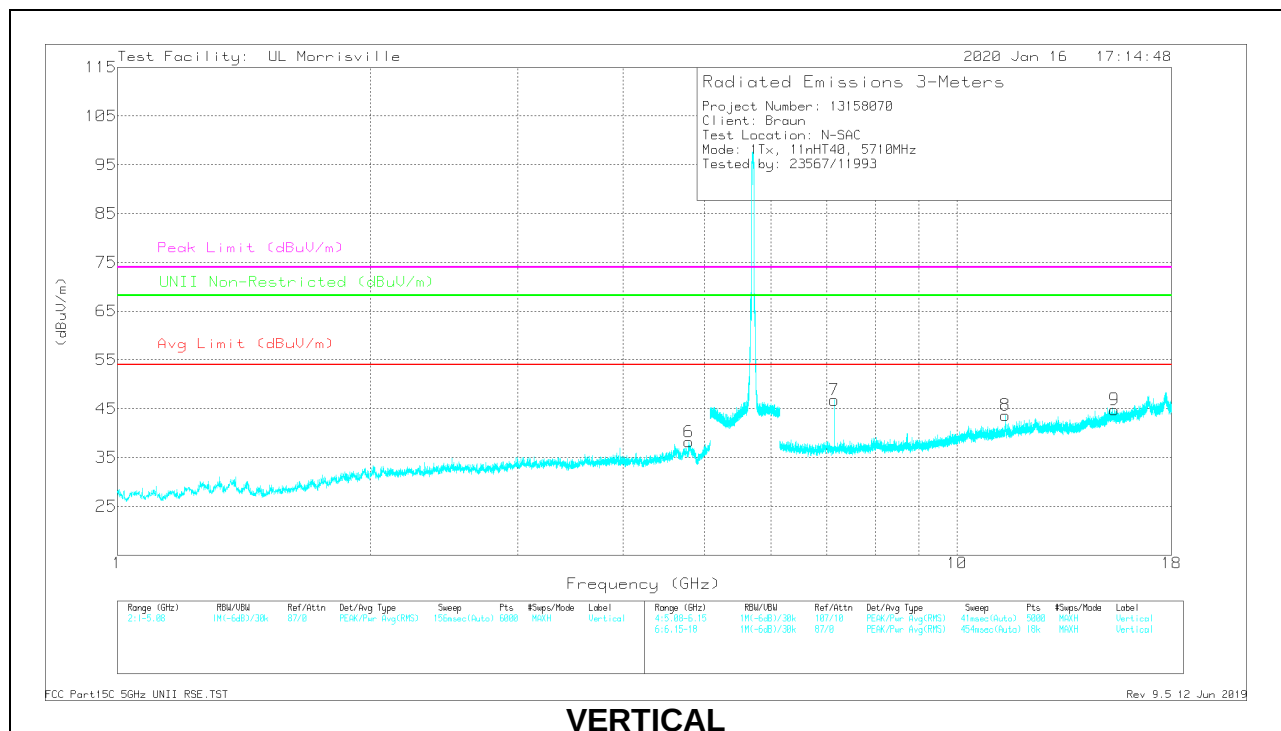
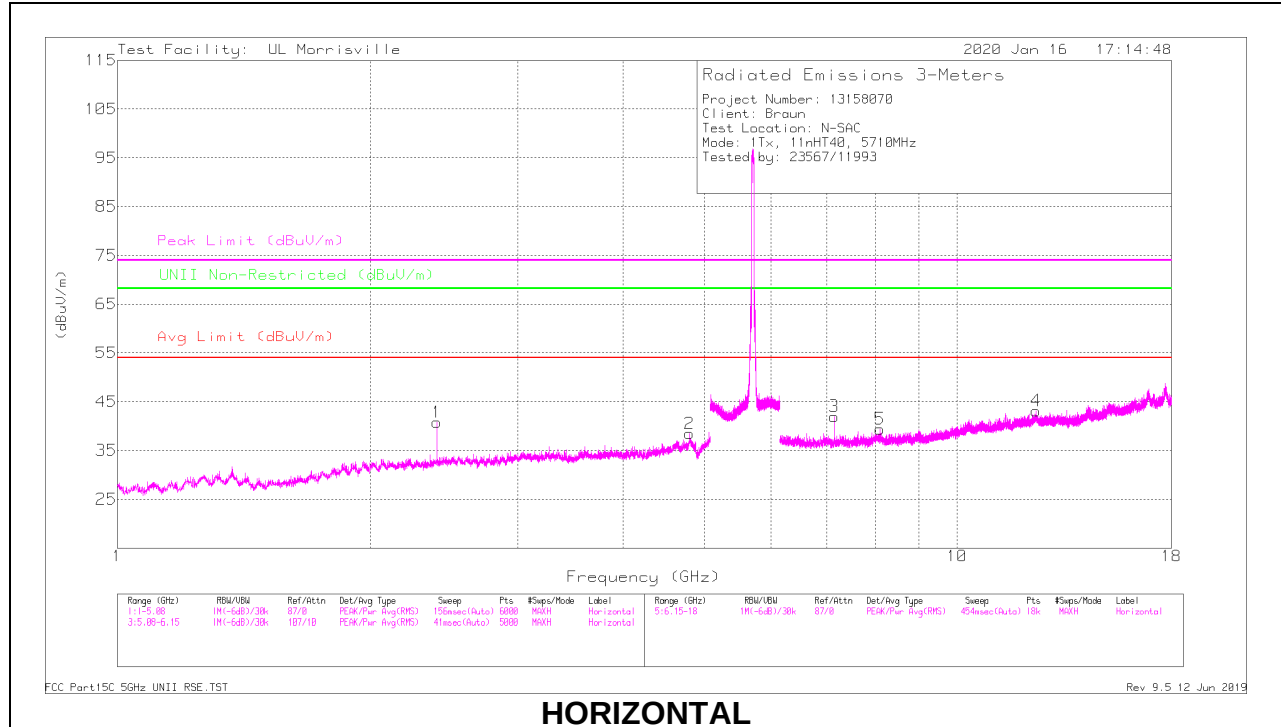
** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

Pk - Peak detector

CHANNEL 142 RESULTS



RADIATED EMISSIONS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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
2	* ** 4.80141	46.17	PK-U	34.1	-30.9	0	49.37	-	-	74	-24.63	-	-	354	304	H
	* ** 4.802	28.41	ADV	34.1	-30.9	1.23	32.84	54	-21.16	-	-	-	-	354	304	H
6	* ** 4.79552	50.89	PK-U	34.1	-31.1	0	53.89	-	-	74	-20.11	-	-	307	347	V
	* ** 4.79398	28.04	ADV	34.1	-31.1	1.23	32.27	54	-21.73	-	-	-	-	307	347	V
4	* ** 12.42561	35.24	PK-U	38.8	-24.9	0	49.14	-	-	74	-24.86	-	-	131	307	H
	* ** 12.42503	21.9	ADV	38.8	-24.9	1.23	37.03	54	-16.97	-	-	-	-	131	307	H
5	* ** 8.10036	37.11	PK-U	35.8	-28.2	0	44.71	-	-	74	-29.29	-	-	148	389	H
	* ** 8.09963	24.25	ADV	35.8	-28.2	1.23	33.08	54	-20.92	-	-	-	-	148	389	H
8	* ** 11.41627	37.26	PK-U	38	-25.9	0	49.36	-	-	74	-24.64	-	-	184	139	V
	* ** 11.41514	23.52	ADV	38	-25.9	1.23	36.85	54	-17.15	-	-	-	-	184	139	V
9	* ** 15.40216	36.57	PK-U	40.1	-26.2	0	50.47	-	-	74	-23.53	-	-	48	389	V
	* ** 15.40141	23.44	ADV	40.1	-26.2	1.23	38.57	54	-15.43	-	-	-	-	48	389	V
1	2.40136	41.9	PK-U	32	-34.2	0	39.7	-	-	-	-	68.2	-28.5	316	227	H
3	7.13697	41.55	PK-U	35.7	-30.2	0	47.05	-	-	-	-	68.2	-21.15	256	106	H
7	7.13708	45.54	PK-U	35.7	-30.2	0	51.04	-	-	-	-	68.2	-17.16	177	102	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADV - U-NII AD primary method, Linear Voltage Average

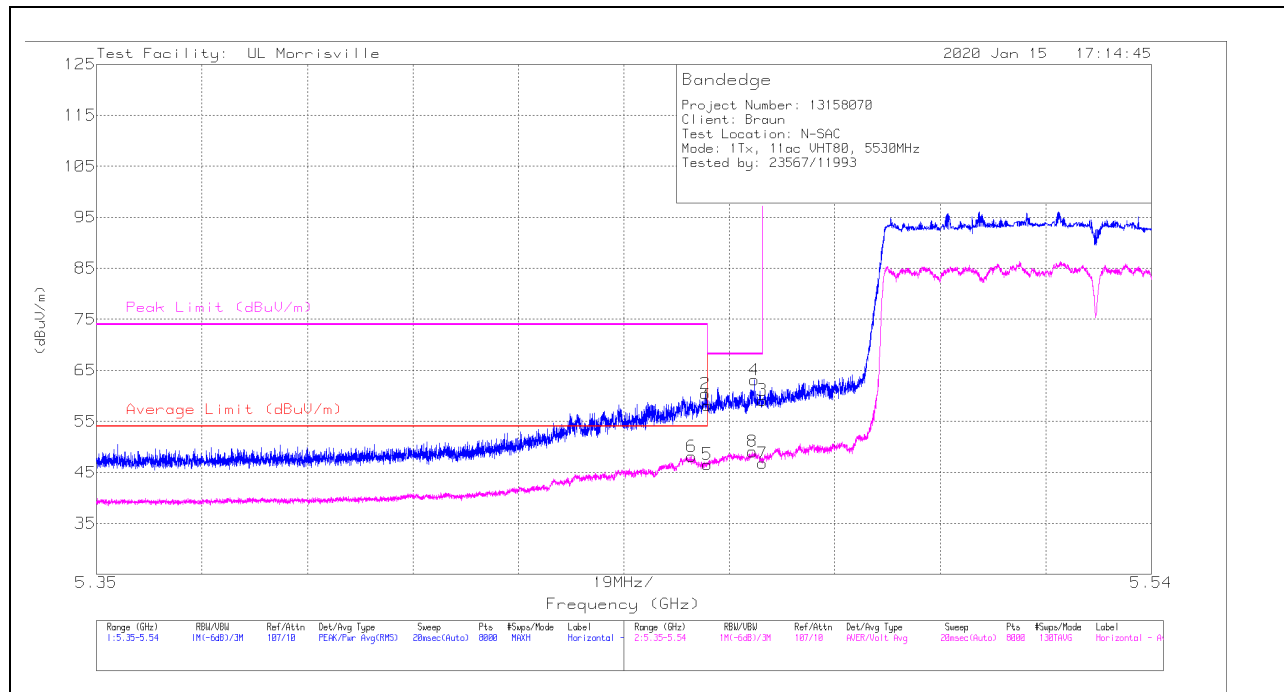
Pk - Peak detector

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	AT0067 AF (dBuV/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	46.7	Pk	34.4	-23	0	58.1	-	-	74	-15.9	195	159	H
2	*** 5.45967	49.03	Pk	34.4	-23	0	60.43	-	-	74	-13.57	195	159	H
5	*** 5.45998	32.87	ADV	34.4	-23	2.3	46.57	54	-7.43	-	-	195	159	H
6	*** 5.45717	34.4	ADV	34.4	-23	2.3	48.1	54	-5.9	-	-	195	159	H
8	5.4682	35.26	ADV	34.4	-22.9	2.3	49.06	-	-	-	-	195	159	H
4	5.46846	51.62	Pk	34.4	-22.9	0	63.12	-	-	68.2	-5.08	195	159	H
3	5.46998	47.62	Pk	34.4	-22.9	0	59.12	-	-	68.2	-9.08	195	159	H
7	5.46998	32.95	ADV	34.4	-22.9	2.3	46.75	-	-	-	-	195	159	H

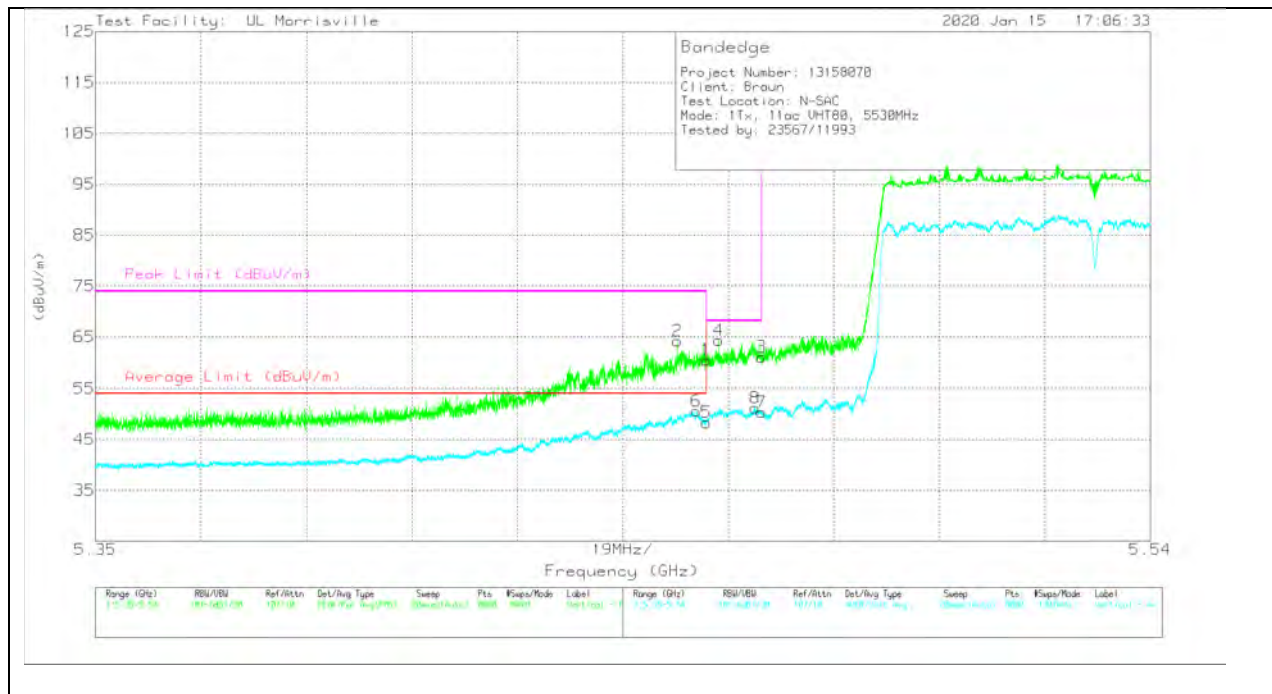
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/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	49.17	Pk	34.4	-23	0	60.57	-	-	74	-13.43	56	151	V
2	*** 5.45482	52.82	Pk	34.4	-23	0	64.22	-	-	74	-9.78	56	151	V
5	*** 5.45998	34.63	ADV	34.4	-23	2.3	48.33	54	-5.67	-	-	56	151	V
6	*** 5.45824	36.87	ADV	34.4	-23	2.3	50.57	54	-3.43	-	-	56	151	V
4	5.46226	52.97	Pk	34.4	-23	0	64.37	-	-	68.2	-3.83	56	151	V
8	5.46881	37.41	ADV	34.4	-22.9	2.3	51.21	-	-	-	-	56	151	V
3	5.46998	49.64	Pk	34.4	-22.9	0	61.14	-	-	68.2	-7.06	56	151	V
7	5.46998	36.57	ADV	34.4	-22.9	2.3	50.37	-	-	-	-	56	151	V

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

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

Pk - Peak detector

ADV - U-NII AD primary method, Linear Voltage Average