



CERTIFICATION TEST REPORT

Report Number: R12922855-E10

Applicant : Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
USA

Model : 1867

FCC ID : C3K1867

IC : 3048A-1867

EUT Description : Portable Computing Device

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

Date Of Issue:
2019-09-09

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REPORT REVISION HISTORY

Ver.	Issue Date	Revisions	Revised By
1	2019-08-29	Initial Issue	Brian T. Kiewra
2	2019-09-09	Added AC power adaptor to support equipment. Added model similarity explanation to Section 5.6	Brian T. Kiewra

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
USA

EUT DESCRIPTION: Portable Computing Device

MODEL: 1867

SERIAL NUMBER: See Section 5.5

DATE TESTED: 2019-07-26 to 2019-08-14

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

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

Approved & Released
For UL LLC By:



Dan Coronia
Operations Leader
UL – Consumer Technology Division

Prepared By:



Brian T. Kiewra
Project Engineer
UL – Consumer Technology Division

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 662911 D01 v02r01, FCC KDB 789033 D02 v02r01, ANSI C63.10-2013, FCC 06-96, RSS-GEN Issue 5, and RSS-247 Issue 2.

This report pertains to the 802.11ax mode requirements of EUT 1867.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 12 Laboratory Drive, Research Triangle Park, NC 27709, USA and 2800 Perimeter Park Dr., Suite B, Morrisville, NC 27590, USA. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

12 Laboratory Dr.	2800 Perimeter Park Dr.
Site Code: 2180C	
☐ Chamber A RTP	☒ North Chamber
☐ Chamber C RTP	☒ South Chamber

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 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 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 dBuV + 0 dB + 10.1 dB + 0 dB = 46.6 dBuV

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
All emissions, radiated	5.17 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 Portable Computing Device that contains 802.11 a/ac/ax/b/g/n 20/40/80/160MHz 2x2 dual band and BT/BLE radios.

5.2. MAXIMUM OUTPUT POWER

Refer to Model 1868 (FCC ID: C3K1868, IC: 3048A-1868) report R12935938-E10 for output power.

5.3. TEST REDUCTIONS CASES

Radiated band edge:

- All tones and bandwidths were tested.
- The RU allocations closest to the band edge was tested to cover all other RU allocations.

Radiated spurious emissions:

- For 5.8GHz band, HE20 26T and full tone was investigated. It was determined that HE20 26T at the highest power setting to be worst case due to power and PSD levels. Thus only HE20 26T was tested to cover all tones at HE20, HE40, and HE80. Note – highest power setting is higher than measured power.

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Frequency Range (GHz)	Antenna Type	Peak Gain (dBi) Chain 0 (Right)	Peak Gain (dBi) Chain 1 (Left)
Model 1867			
2.4 to 2.48	PIFA	0.7	2.6
5.15 to 5.25		4.9	4.4
5.25 to 5.35		6.1	5.0
5.47 to 5.72		7.2	5.5
5.725 to 5.85		9.4	5.6
Model 1868			
2.4 to 2.48	PIFA	0.4	1.0
5.15 to 5.25		3.6	2.2
5.25 to 5.35		5.2	3.5
5.47 to 5.72		6.4	4.7
5.725 to 5.85		7.8	4.5

The 5 GHz WLAN radio utilizes Chain 0 and chain 1.

NOTE: Antenna 1 = Chain 0

Antenna 2 = Chain 1

5.5. SOFTWARE AND FIRMWARE

EUT	Serial Number	Radio Test Tool Version	OS Version	BT Driver Version	WiFi Driver Version	EUT's Power Supply (s/n)
R-557-1867-FCC-RADIATED-08	006438792757	11.1916.0-09531	MTEOS 1.652.0	21.0.19157.20088	99.0.43.8	0D130P028D596
R-557-1867-FCC-RADIATED-09	006439692757	11.1916.0-09531	MTEOS 1.652.0	21.0.19157.20088	99.0.43.8	0D130P01H1596

5.6. WORST-CASE CONFIGURATION AND MODE

Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed in worst-case test report R12922855-E11 (FCC ID: C3K1867, IC: 3048A-1867).

Models 1867 and 1868 are electrically and RF equivalent as they use the same motherboard, radio module and on-board RF components. Both models share a common WiFi and BT power table. The radio-related firmware and driver versions are the same for the two models. The peak antenna gains are in the antenna gain section of the report. Antenna port conducted emissions measurements are done on model 1868 (FCC ID: C3K1868, IC: 3048A-1868) and the data is leveraged for model 1867 (FCC ID: C3K1867, IC: 3048A-1867). Highest antenna gain across the two models in each band has been considered while doing the conducted emissions measurements. Separate radiated & SAR measurements are done on each model.

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

The EUT has one intended orientations, X; therefore, all final radiated testing was performed with the EUT in X orientation.

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

802.11ax HE20mode: MCS0 NSS2
802.11ax HE40mode: MCS0 NSS2
802.11ax HE80mode: MCS0 NSS2

All radios that can transmit simultaneously have been evaluated for radiated for all possible combinations of transmission and found to be in compliance.

5.7. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
USB Hub	J5 Create	JCA374	AY2A1904000477 / AY6A1903004261	N/A
Earbuds	Sony	MDR-EX14AP	Non-Serialized	N/A
AC Adaptor	Microsoft	1706	0D130P01H1596	N/A
USB Flash Drive	Kingston	Data Traveler G4	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	Mains	1	12-pin	Mains	<3m	None
2	USB-A	1	USB-A	USB	<3m	None
3	USB-C	1	USB-C	USB	<3m	None
4	Aux	1	Aux	Aux	<3m	None

TEST SETUP

The test utility software was located on the EUT during the tests and was used to exercised the radios.

SETUP DIAGRAMS

Please refer to 12922855-EP1 for setup diagrams

6. 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)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
1-18 GHz					
AT0067	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-03-22	2020-03-22
Gain-Loss Chains					
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	NA	NA
Additional Equipment used					
s/n 181474341	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27

NOTES:

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

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

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
1-18 GHz					
AT0072	Double-Ridged Waveguide Horn Antenna, 1 to 18 GHz	ETS Lindgren	3117	2019-04-22	2020-04-22
Gain-Loss Chains					
S-SAC03	Gain-loss string: 1-18GHz	Various	Various	2019-03-13	2020-03-13
Receiver & Software					
SA0025	Spectrum Analyzer	Agilent	N9030A	2019-02-28	2020-02-28
SOFTEMI	EMI Software	UL	Version 9.5	NA	NA
Additional Equipment used					
s/n 181474409	Environmental Meter	Fisher Scientific	15-077-963	2018-07-27	2020-07-27

NOTES:

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

Test Equipment Used – Antenna Port Conducted Testing (Morrisville)

Equipment ID	Description	Manufacturer	Model Number	Last Cal.	Next Cal.
SA0027	PXA Signal Analyzer	Keysight Technologies	MY54490254	2019-05-15	2020-05-15
s/n 160938893	Environmental Meter	Fisher Scientific	14-650-118	2019-06-17	2020-06-17
224604-002	Coaxial Testing Cable	Uti-flex	UFA147A-0-0180-200200	NA	NA
Antenna Port	Antenna Port Software	Antenna	Version 10.0.1	NA	NA

NOTES:

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

7. MEASUREMENT METHOD

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

Unwanted emissions in restricted bands: KDB 789033 D02 v02r01, Section II G.3, G.5, and G.6.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v02r01, Section II G.3 and G.5.

8. ON TIME AND DUTY CYCLE

LIMITS

None; for reporting purposes only.

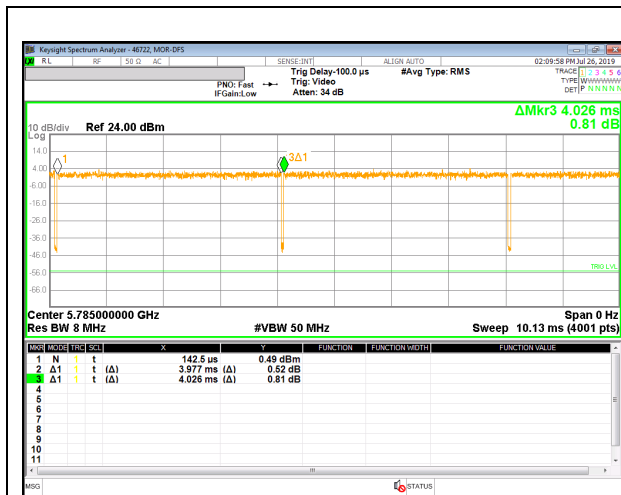
PROCEDURE

789033 D02 Zero-Span Spectrum Analyzer Method.

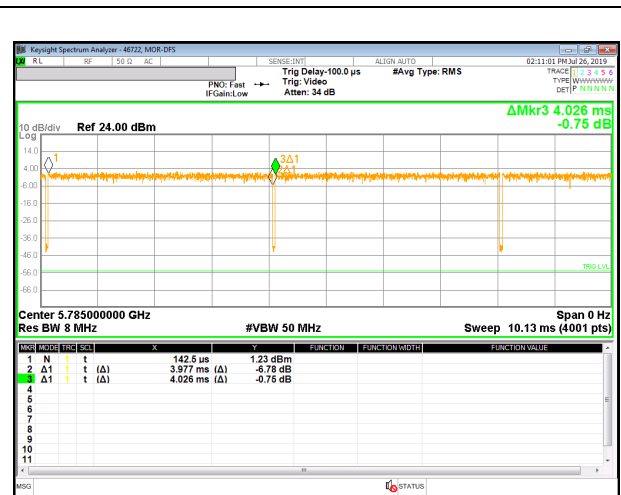
ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/B Minimum VBW (kHz)
802.11ax HE20 OFDMA, SU	3.967	4.013	0.989	98.85%	0.00	0.010
802.11ax HE20 OFDMA, RU size 242T	3.977	4.026	0.988	98.78%	0.00	0.010
802.11ax HE20 OFDMA, RU size 106T	3.977	4.026	0.988	98.78%	0.00	0.010
802.11ax HE20 OFDMA, RU size 52T	3.977	4.026	0.988	98.78%	0.00	0.010
802.11ax HE20 OFDMA, RU size 26T	3.977	4.026	0.988	98.78%	0.00	0.010
802.11ax HE40 OFDMA, SU	3.968	4.015	0.988	98.83%	0.00	0.010
802.11ax HE40 OFDMA, RU size 484T	3.975	4.025	0.988	98.76%	0.00	0.010
802.11ax HE40 OFDMA, RU size 242T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE40 OFDMA, RU size 106T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE40 OFDMA, RU size 52T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE40 OFDMA, RU size 26T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE80 OFDMA, SU	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE80 OFDMA, RU size 996T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE80 OFDMA, RU size 484T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE80 OFDMA, RU size 242T	3.978	4.027	0.988	98.78%	0.00	0.010
802.11ax HE80 OFDMA, RU size 106T	3.978	4.030	0.987	98.71%	0.00	0.010
802.11ax HE80 OFDMA, RU size 52T	3.978	4.030	0.987	98.71%	0.00	0.010
802.11ax HE80 OFDMA, RU size 26T	3.978	4.030	0.987	98.71%	0.00	0.010

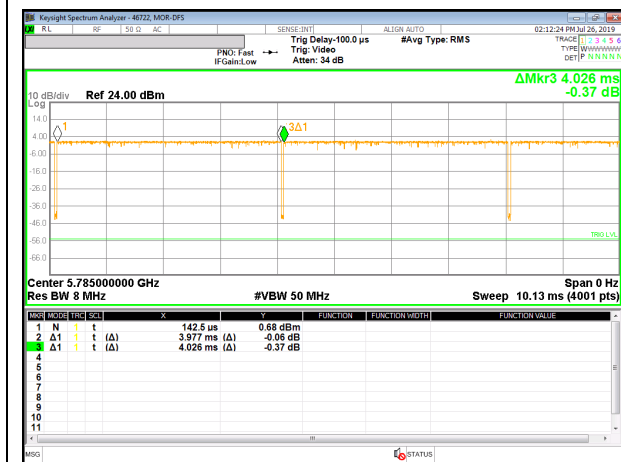
DUTY CYCLE PLOTS



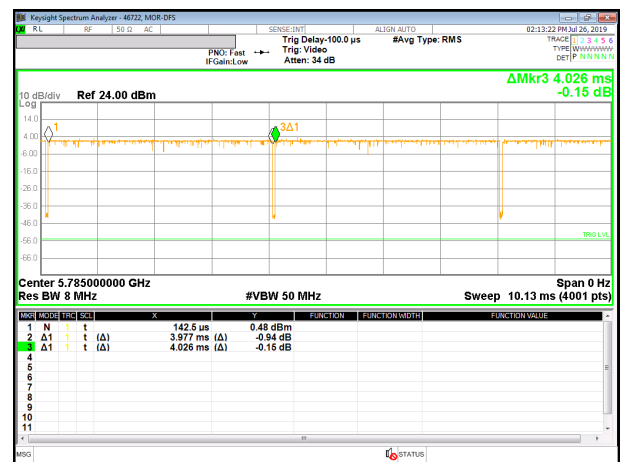
802.11ax HE20 OFDMA, RU size 242T MODE



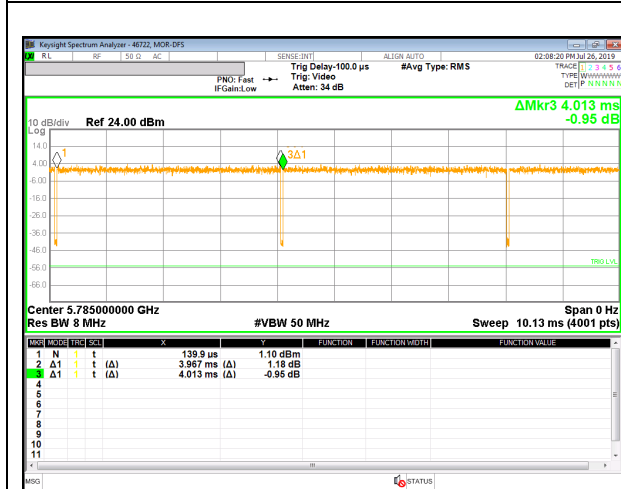
802.11ax HE20 OFDMA, RU size 106T MODE



802.11ax HE20 OFDMA, RU size 52T MODE

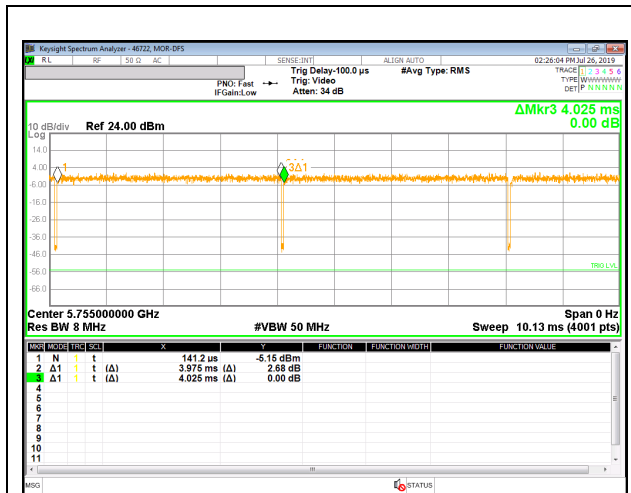


802.11ax HE20 OFDMA, RU size 26T MODE

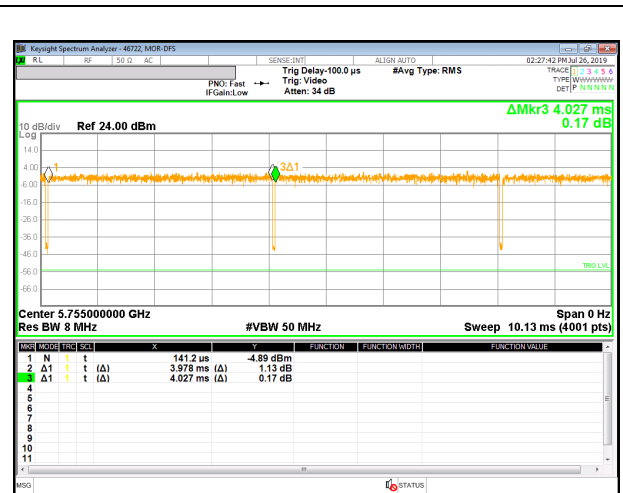


802.11ax HE20 OFDMA, SU MODE

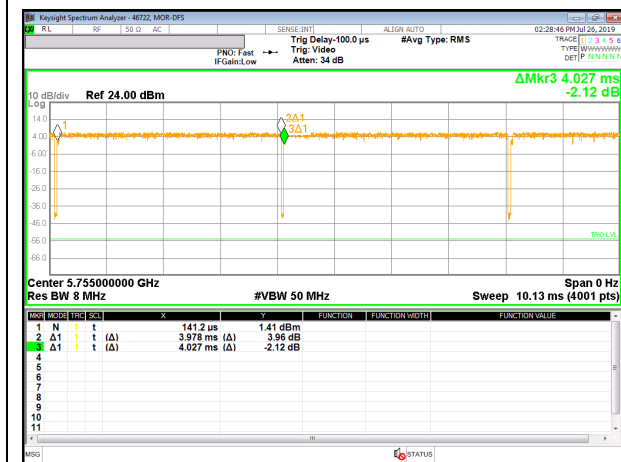
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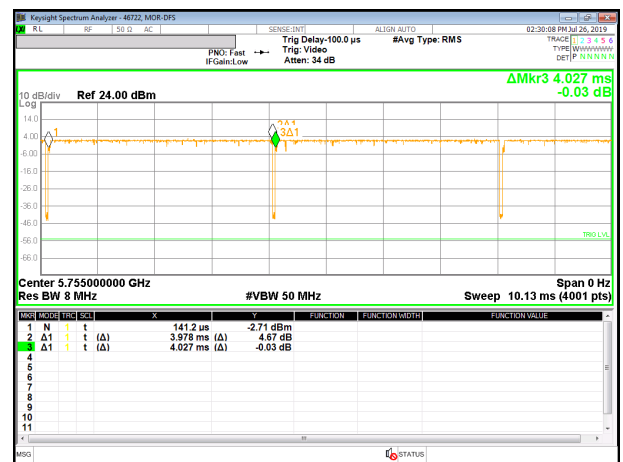
802.11ax HE40 OFDMA, RU size 484T MODE



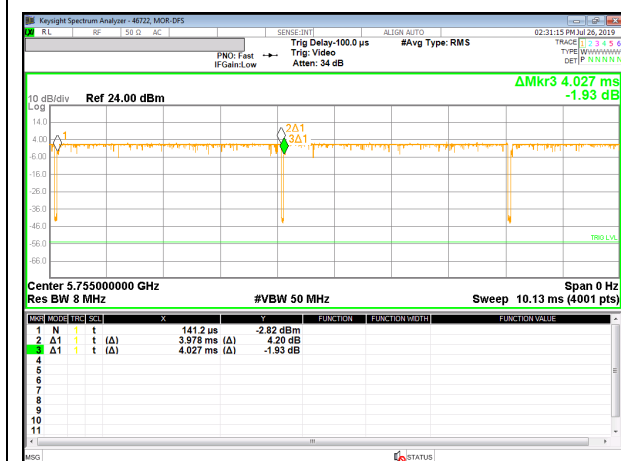
802.11ax HE40 OFDMA, RU size 242T MODE



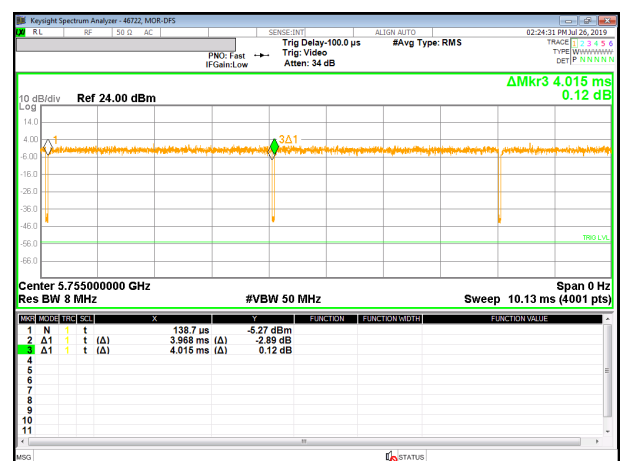
802.11ax HE40 OFDMA, RU size 106T MODE



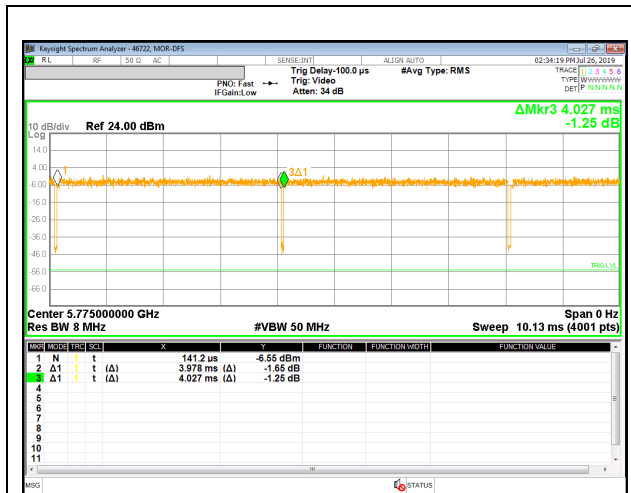
802.11ax HE40 OFDMA, RU size 52T MODE



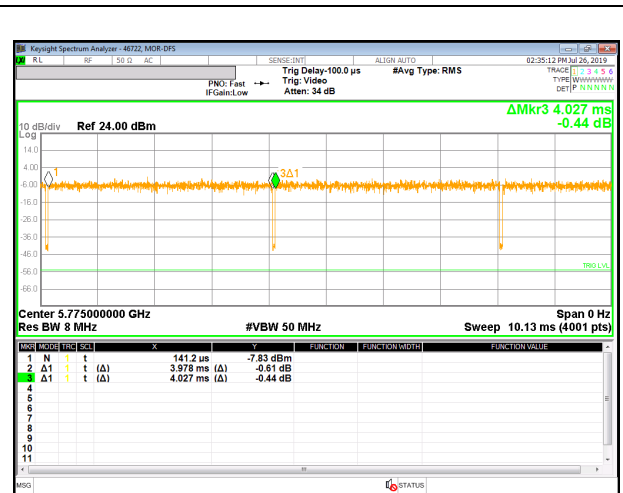
802.11ax HE40 OFDMA, RU size 26T MODE



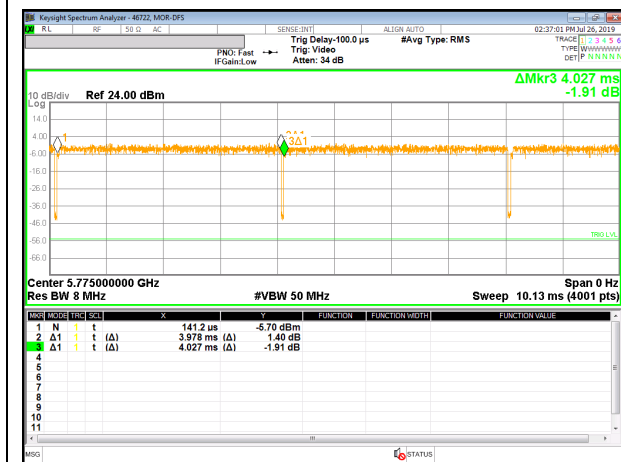
802.11ax HE40 OFDMA, SU



802.11ax HE80 OFDMA, RU size 996T MODE



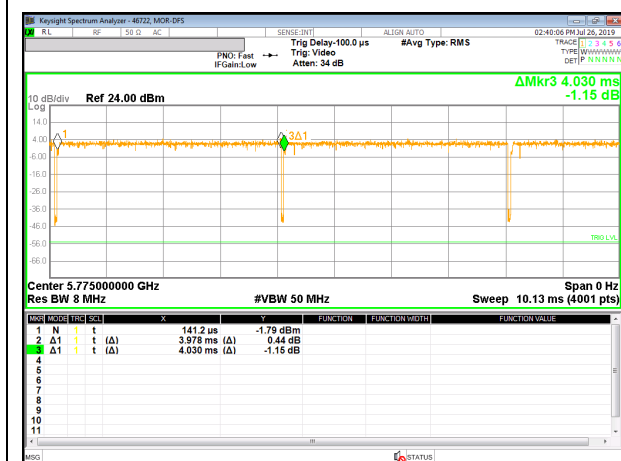
802.11ax HE80 OFDMA, RU size 484T MODE



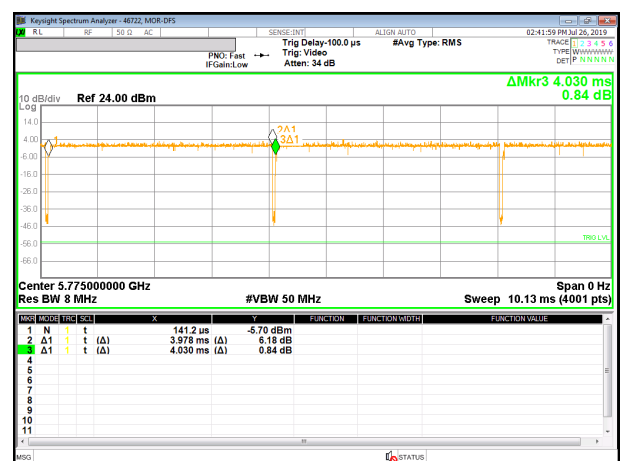
802.11ax HE80 OFDMA, RU size 242T MODE



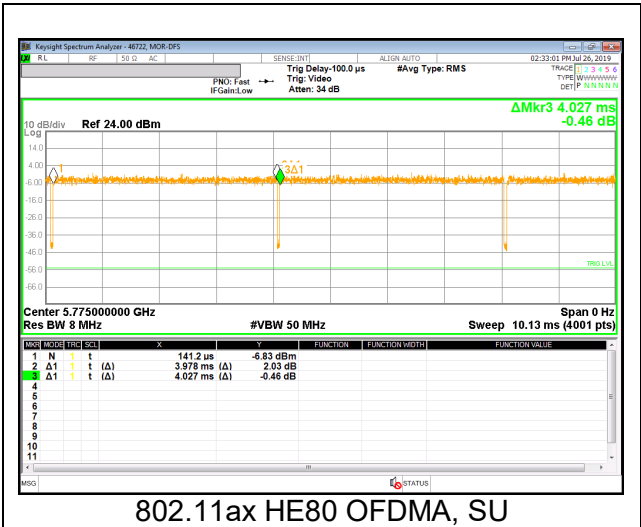
802.11ax HE80 OFDMA, RU size 106T MODE



802.11ax HE80 OFDMA, RU size 52T MODE



802.11ax HE80 OFDMA, RU size 26T MODE



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9. RADIATED TEST RESULTS FOR 11ax 5.8 GHz

LIMITS

FCC §15.205 and §15.209 -Restricted bands
FCC §15.407(b)(1-4) -Un-Restricted bands

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

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)
6.2.2.2 (for 5250-5350 MHz band)
6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)
6.2.4.2 (for 5725-5850 MHz band)

NCC LP0002 §2.7 and §2.8

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
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 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 pre-scans above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 30 KHz for peak measurements.

For final measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and as applicable for average measurements. Detector used was RMS average detector.

The spectrum from 1GHz to 18GHz was investigated with the transmitter set to transmit 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.

Note: All frequencies were marked at the maximum emissions within the restricted band. This was due to the observed margins of the emissions to the non-restricted limit.

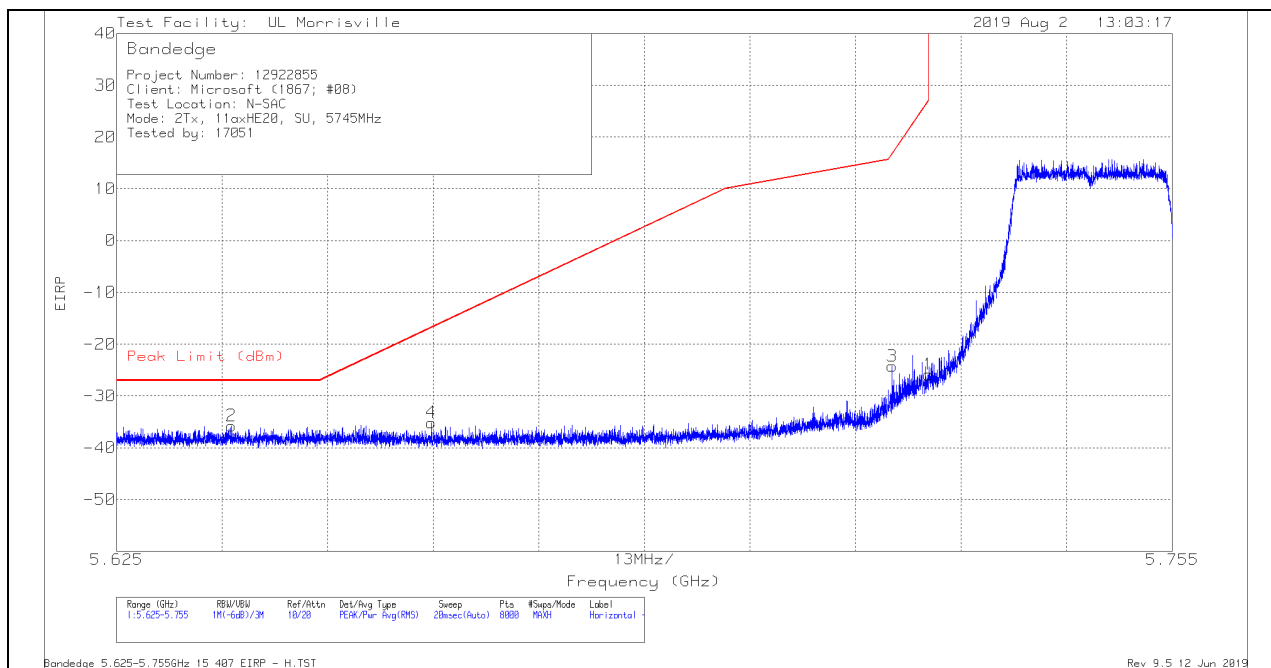
9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. TX ABOVE 1 GHz 802.11ax HE20 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 OFDMA MODE – SU MODE

BANDEDGE (LOW CHANNEL)

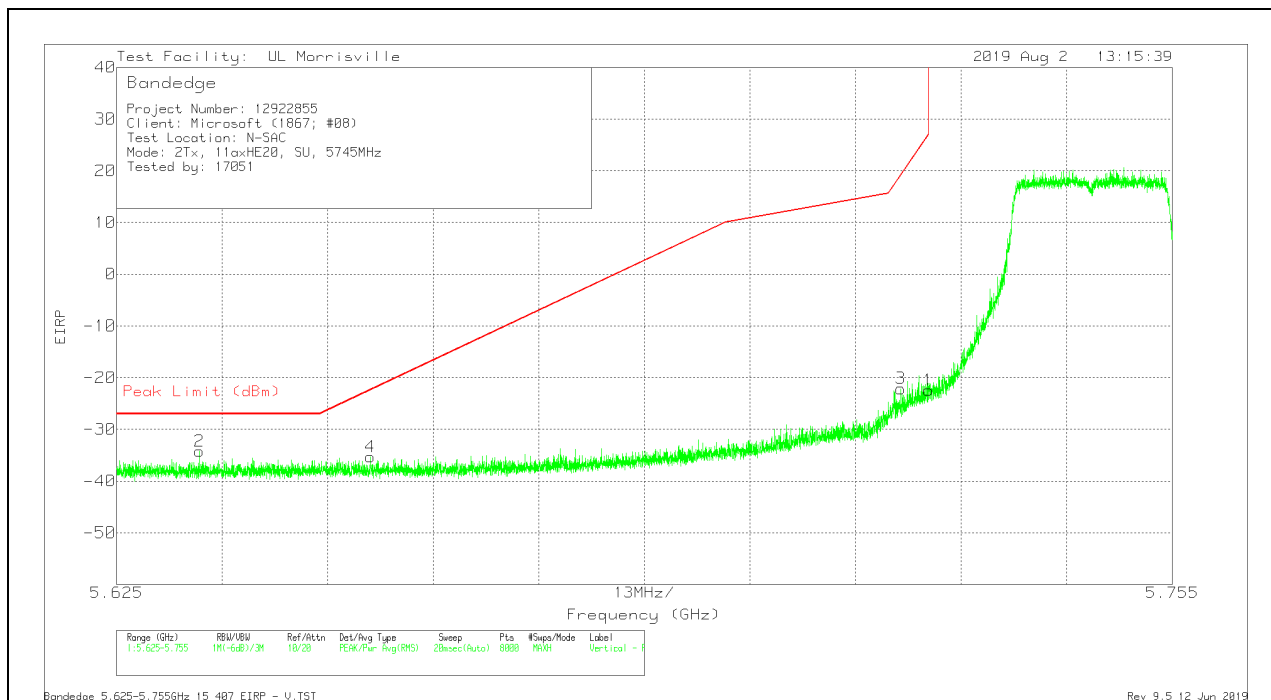
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63916	-59.15	Pk	34.6	-23	11.8	-35.75	-27	-8.75	249	383	H
4	5.66375	-58.53	Pk	34.6	-23	11.8	-35.13	-16.83	-18.3	249	383	H
3	5.72051	-47.78	Pk	34.6	-22.9	11.8	-24.28	16.77	-41.05	249	383	H
1	5.725	-49.38	Pk	34.6	-22.9	11.8	-25.88	27	-52.88	249	383	H

Pk - Peak detector

VERTICAL RESULT

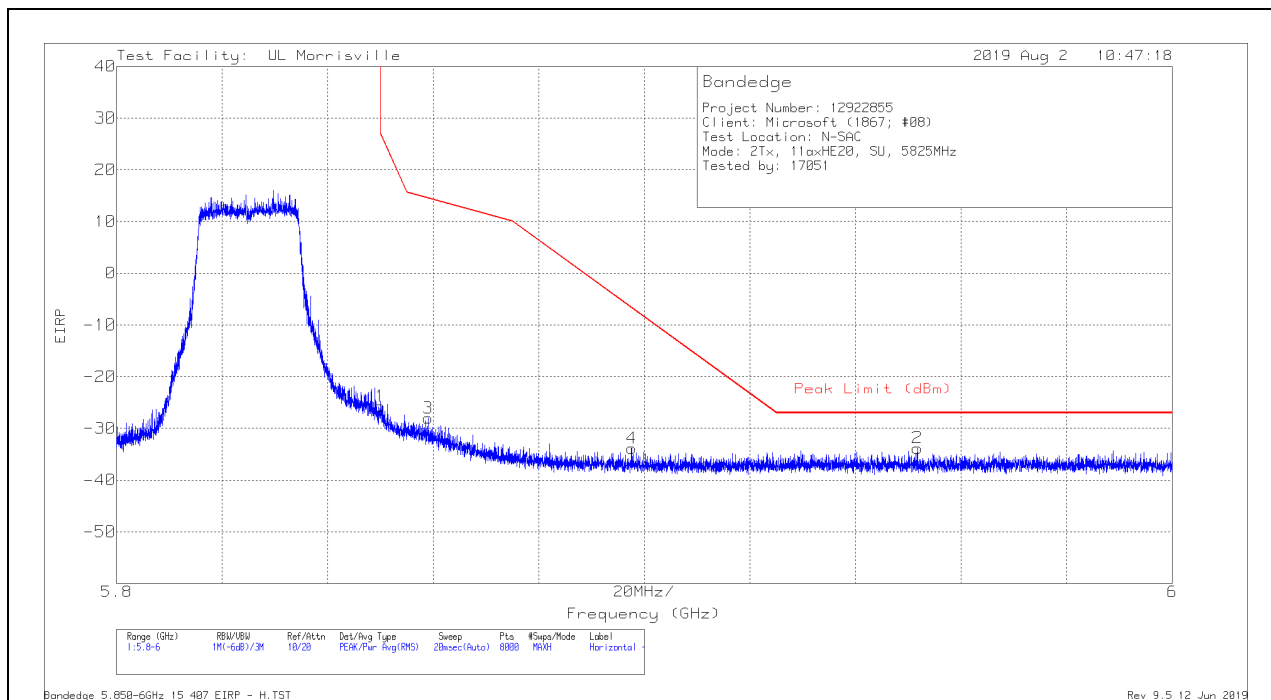


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63521	-57.6	Pk	34.6	-23	11.8	-34.2	-27	-7.2	287	233	V
4	5.65622	-58.78	Pk	34.6	-22.9	11.8	-35.28	-22.4	-12.88	287	233	V
3	5.72155	-45.61	Pk	34.6	-22.9	11.8	-22.11	19.14	-41.25	287	233	V
1	5.725	-45.94	Pk	34.6	-22.9	11.8	-22.44	27	-49.44	287	233	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

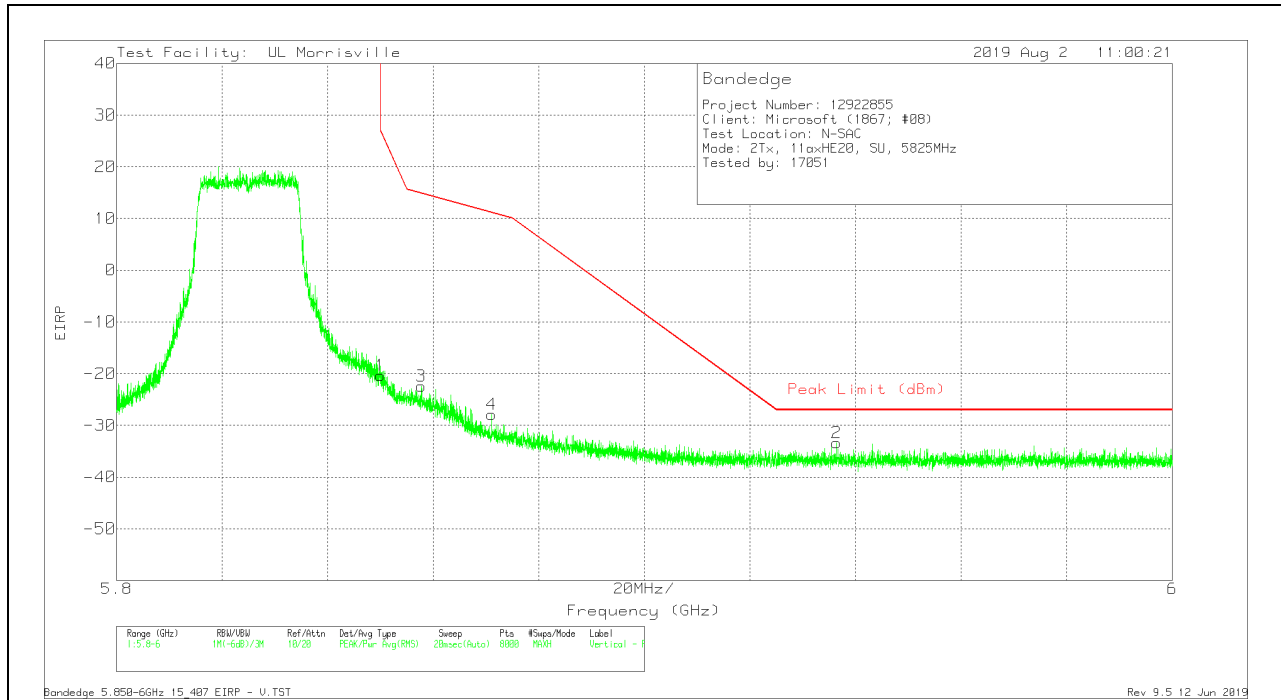
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-49.94	Pk	34.8	-22.4	11.8	-25.74	26.99	-52.73	255	387	H
3	5.85898	-52.25	Pk	34.8	-22.4	11.8	-28.05	14.49	-42.54	255	387	H
4	5.89756	-58.48	Pk	34.9	-22.1	11.8	-33.88	-6.7	-27.18	255	387	H
2	5.95172	-58.59	Pk	34.9	-21.9	11.8	-33.79	-27	-6.79	255	387	H

Pk - Peak detector

VERTICAL RESULT



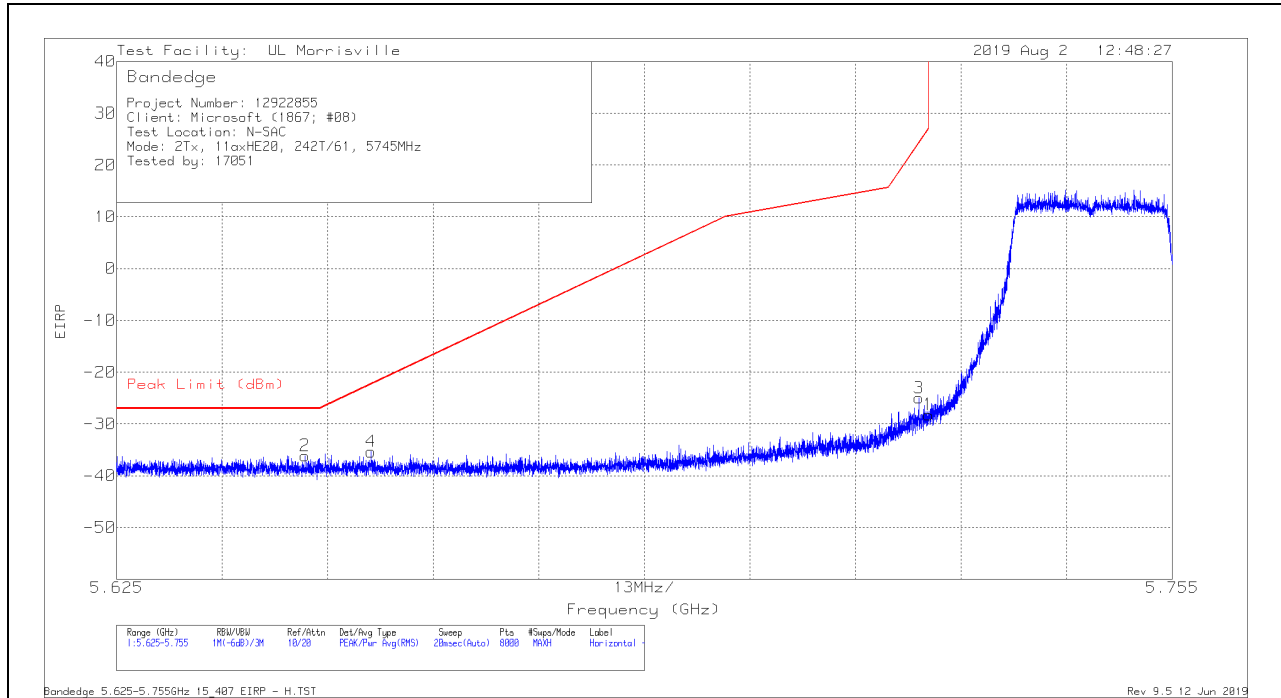
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-44.55	Pk	34.8	-22.4	11.8	-20.35	26.99	-47.34	16	221	V
3	5.85768	-46.65	Pk	34.8	-22.4	11.8	-22.45	14.85	-37.3	16	221	V
4	5.87106	-52.18	Pk	34.8	-22.3	11.8	-27.88	11.1	-38.98	16	221	V
2	5.93639	-58.06	Pk	34.9	-22	11.8	-33.36	-27	-6.36	16	221	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 242-Tones, RU Index 61

BANDEDGE (LOW CHANNEL)

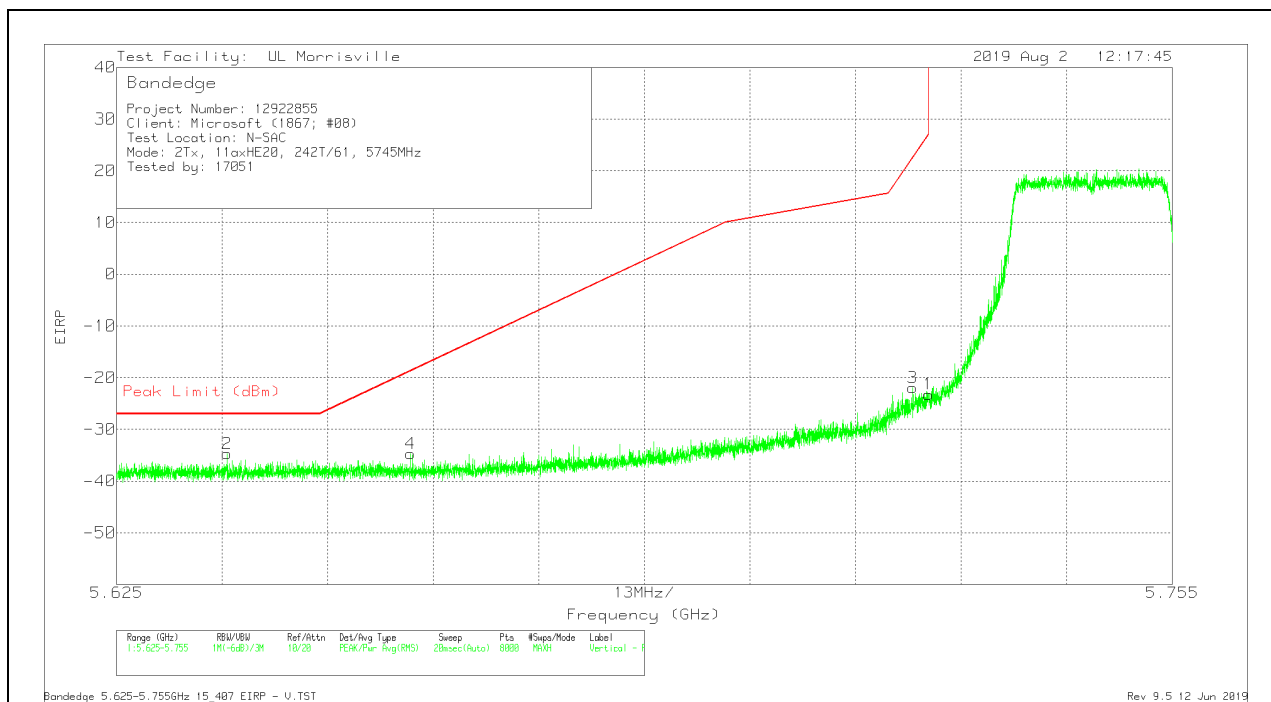
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64821	-59.62	Pk	34.6	-22.9	11.8	-36.12	-27	-9.12	249	386	H
4	5.65635	-58.85	Pk	34.6	-22.9	11.8	-35.35	-22.3	-13.05	249	386	H
3	5.72381	-48.49	Pk	34.6	-22.9	11.8	-24.99	24.29	-49.28	249	386	H
1	5.725	-51.71	Pk	34.6	-22.9	11.8	-28.21	27	-55.21	249	386	H

Pk - Peak detector

VERTICAL RESULT

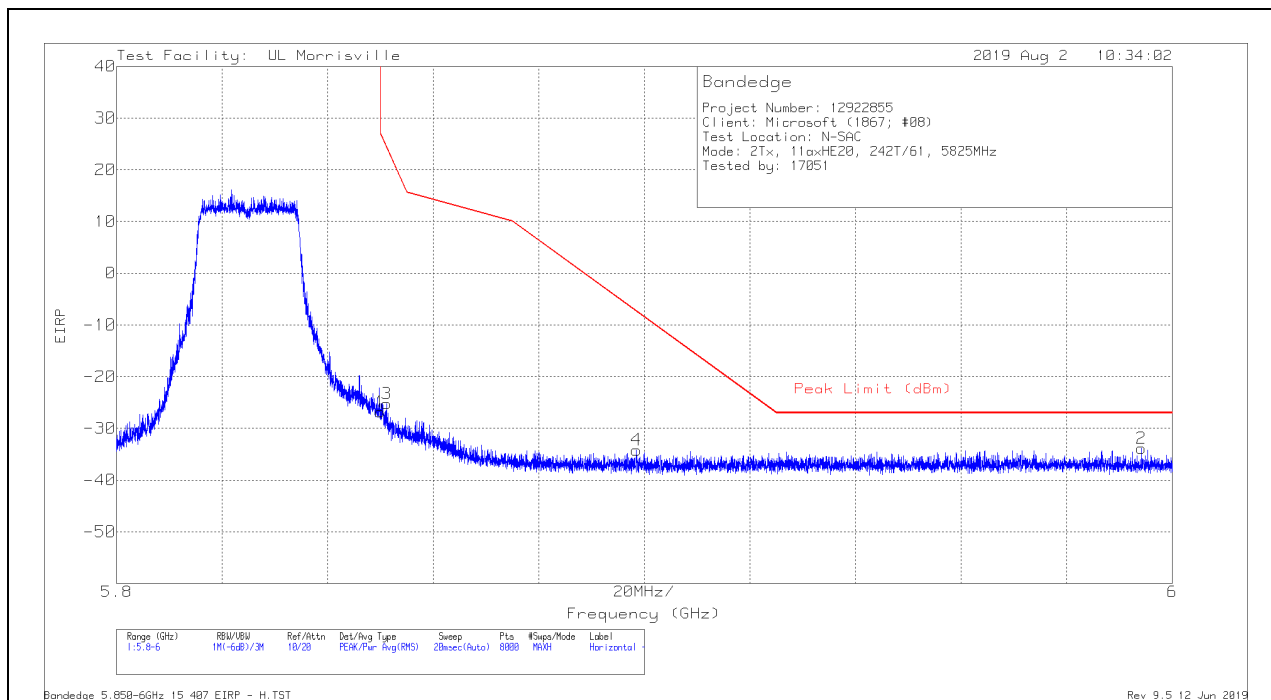


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63862	-58.08	Pk	34.6	-23	11.8	-34.68	-27	-7.68	290	244	V
4	5.66121	-58.22	Pk	34.6	-22.9	11.8	-34.72	-18.71	-16.01	290	244	V
3	5.72303	-45.42	Pk	34.6	-22.9	11.8	-21.92	22.51	-44.43	290	244	V
1	5.725	-46.71	Pk	34.6	-22.9	11.8	-23.21	27	-50.21	290	244	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

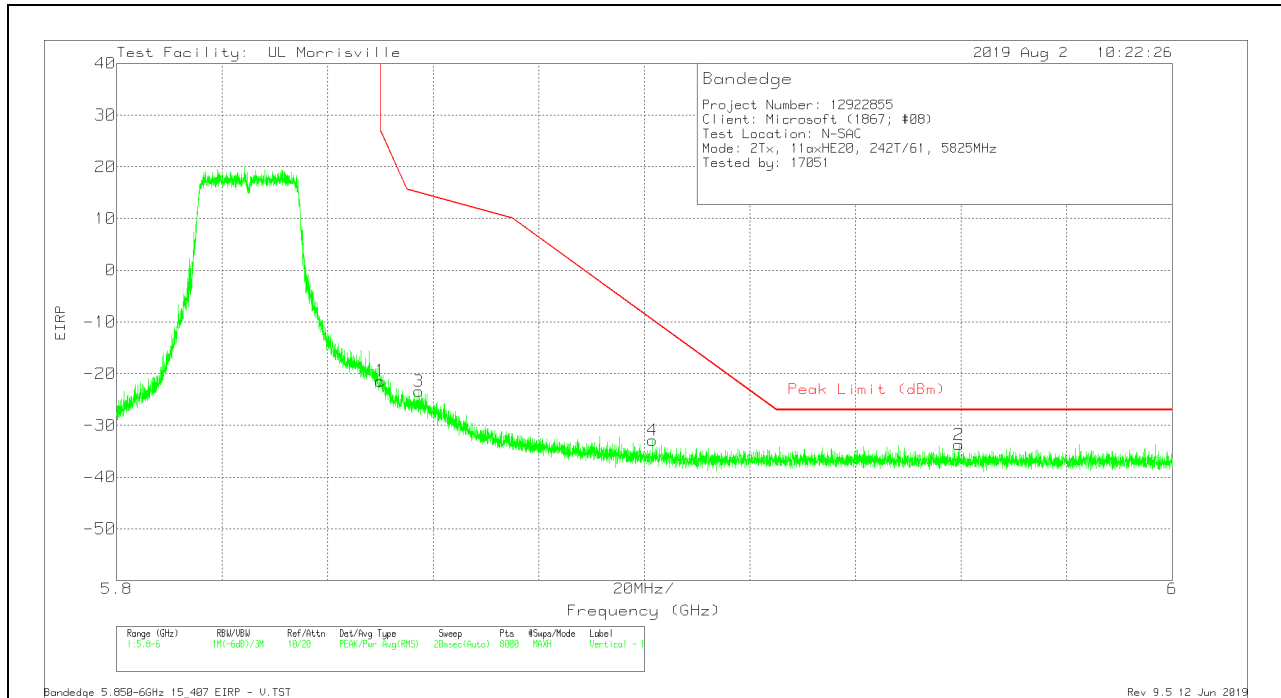
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-51.02	Pk	34.8	-22.4	11.8	-26.82	26.99	-53.81	253	391	H
3	5.85113	-49.44	Pk	34.8	-22.4	11.8	-25.24	24.42	-49.66	253	391	H
4	5.89849	-58.76	Pk	34.9	-22.1	11.8	-34.16	-7.38	-26.78	253	391	H
2	5.99415	-58.78	Pk	35	-21.9	11.8	-33.88	-27	-6.88	253	391	H

Pk - Peak detector

VERTICAL RESULT



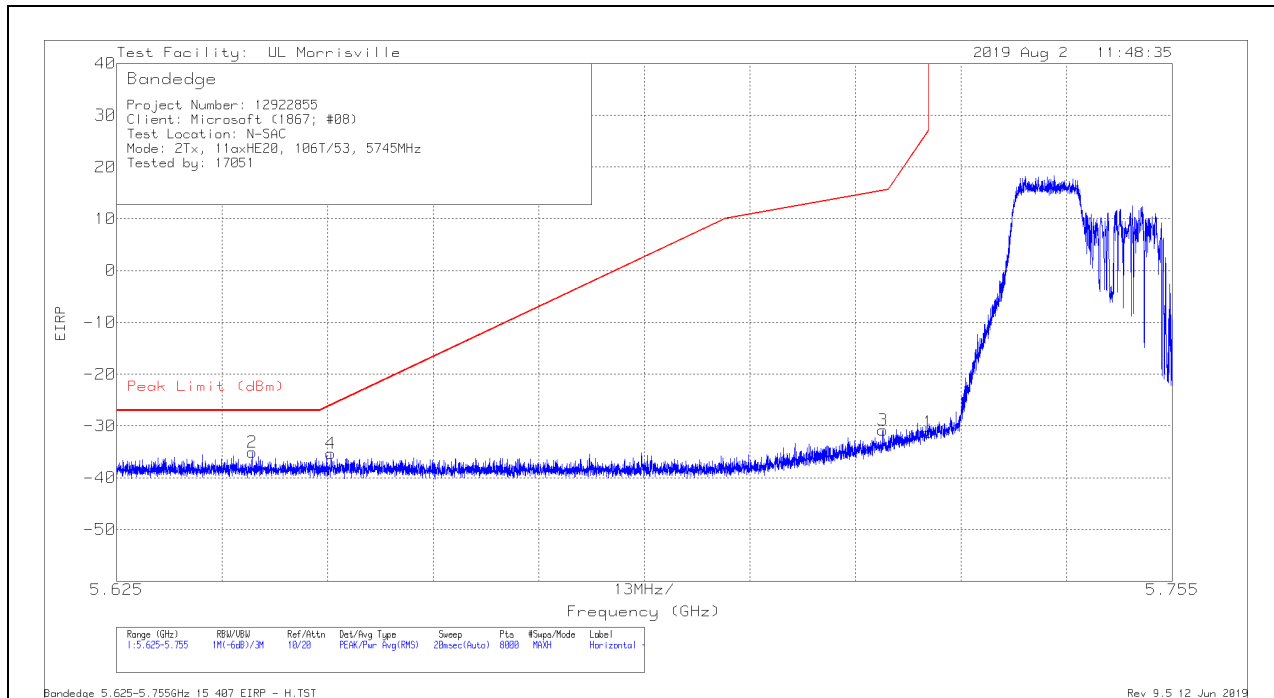
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-45.6	Pk	34.8	-22.4	11.8	-21.4	26.99	-48.39	290	248	V
3	5.85721	-47.6	Pk	34.8	-22.4	11.8	-23.4	14.98	-38.38	290	248	V
4	5.90154	-57.51	Pk	34.9	-22.1	11.8	-32.91	-9.64	-23.27	290	248	V
2	5.95957	-58.52	Pk	34.9	-21.9	11.8	-33.72	-27	-6.72	290	248	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 106-Tones, RU Index 53

BANDEDGE (LOW CHANNEL)

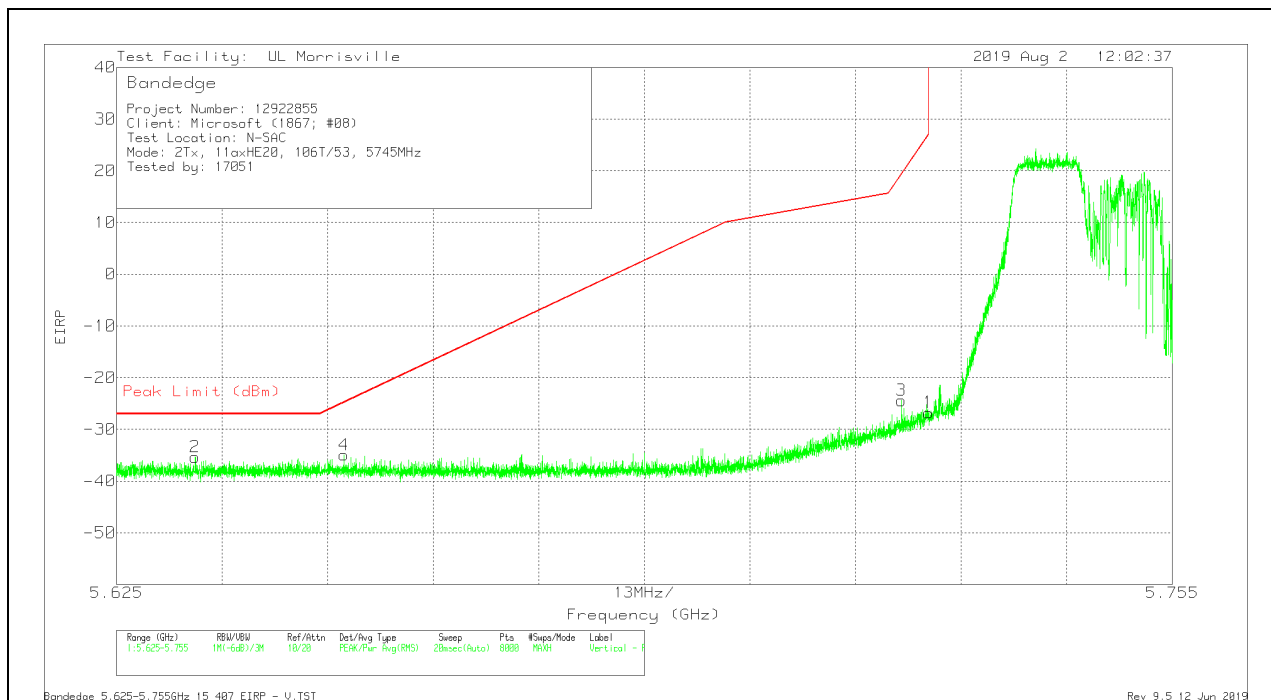
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64171	-58.48	Pk	34.6	-23	11.8	-35.08	-27	-8.08	250	386	H
4	5.65138	-58.83	Pk	34.6	-22.9	11.8	-35.33	-25.98	-9.35	250	386	H
3	5.71936	-54.31	Pk	34.6	-22.9	11.8	-30.81	15.42	-46.23	250	386	H
1	5.725	-54.75	Pk	34.6	-22.9	11.8	-31.25	27	-58.25	250	386	H

Pk - Peak detector

VERTICAL RESULT



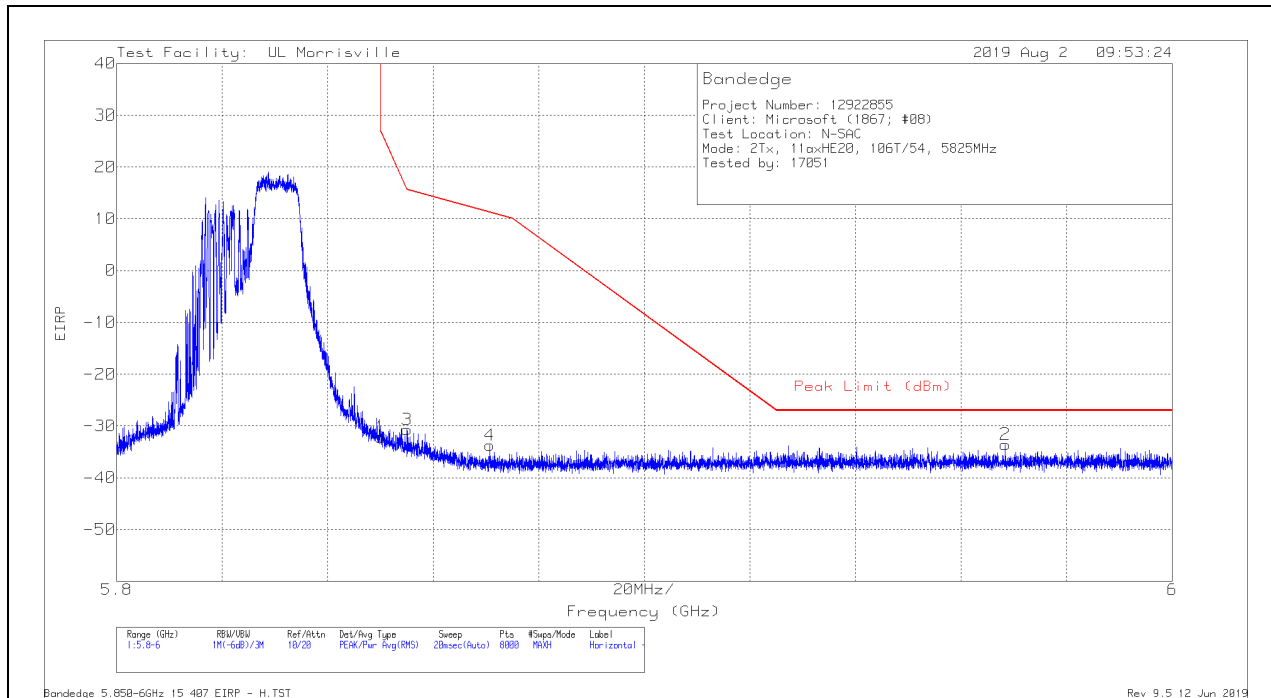
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63469	-58.75	Pk	34.6	-23	11.8	-35.35	-27	-8.35	291	243	V
4	5.653	-58.53	Pk	34.6	-22.8	11.8	-34.93	-24.78	-10.15	291	243	V
3	5.72167	-47.91	Pk	34.6	-22.9	11.8	-24.41	19.4	-43.81	291	243	V
1	5.725	-50.25	Pk	34.6	-22.9	11.8	-26.75	27	-53.75	291	243	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 106-Tones, RU Index 54

BANDEDGE (HIGH CHANNEL)

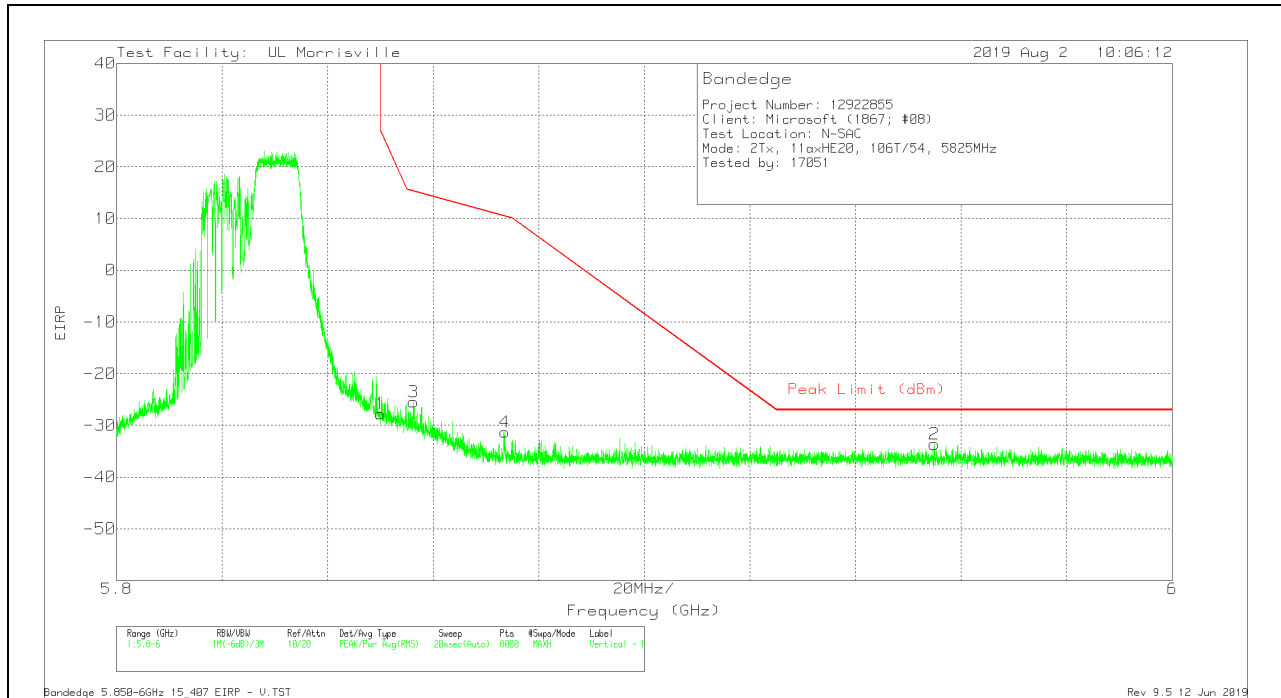
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-56.35	Pk	34.8	-22.4	11.8	-32.15	26.99	-59.14	0	378	H
3	5.85503	-54.9	Pk	34.8	-22.4	11.8	-30.7	15.59	-46.29	0	378	H
4	5.87073	-58.06	Pk	34.8	-22.3	11.8	-33.76	11.19	-44.95	0	378	H
2	5.96837	-58.46	Pk	35	-21.9	11.8	-33.56	-27	-6.56	0	378	H

Pk - Peak detector

VERTICAL RESULT



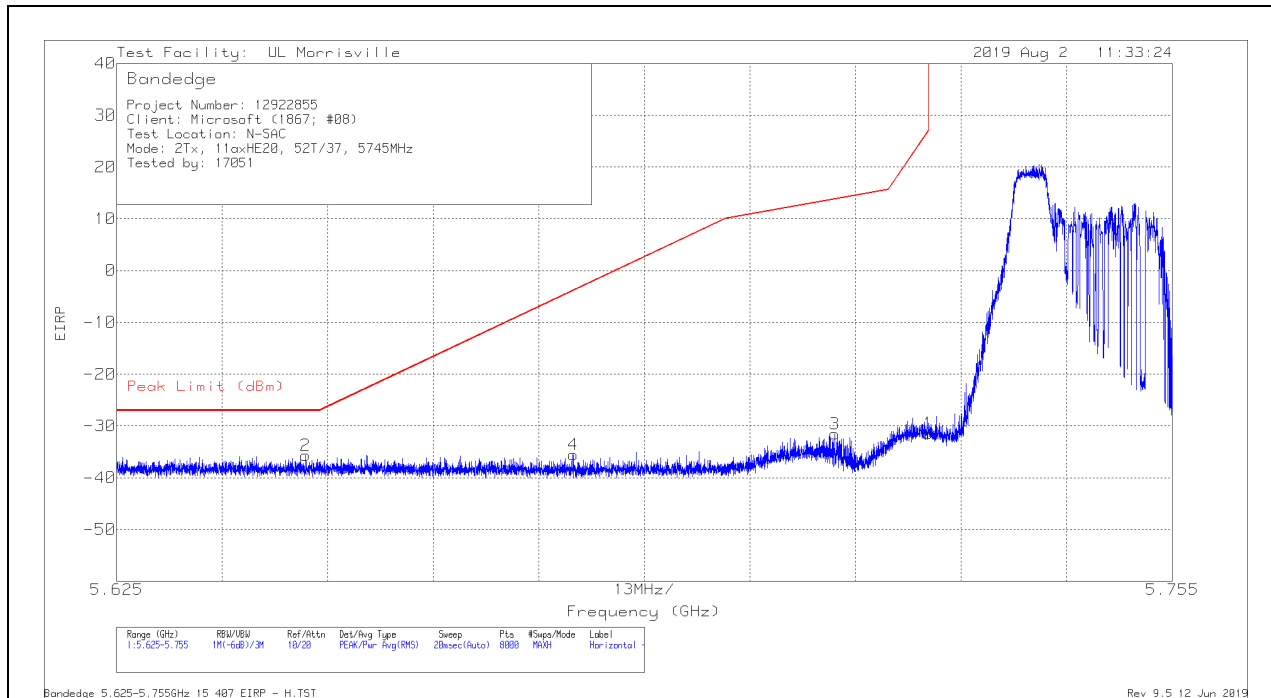
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-51.94	Pk	34.8	-22.4	11.8	-27.74	26.99	-54.73	288	245	V
3	5.85623	-49.69	Pk	34.8	-22.4	11.8	-25.49	15.26	-40.75	288	245	V
4	5.87353	-55.61	Pk	34.8	-22.3	11.8	-31.31	10.41	-41.72	288	245	V
2	5.95492	-58.45	Pk	34.9	-21.9	11.8	-33.65	-27	-6.65	288	245	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 52-Tones, RU Index 37

BANDEDGE (LOW CHANNEL)

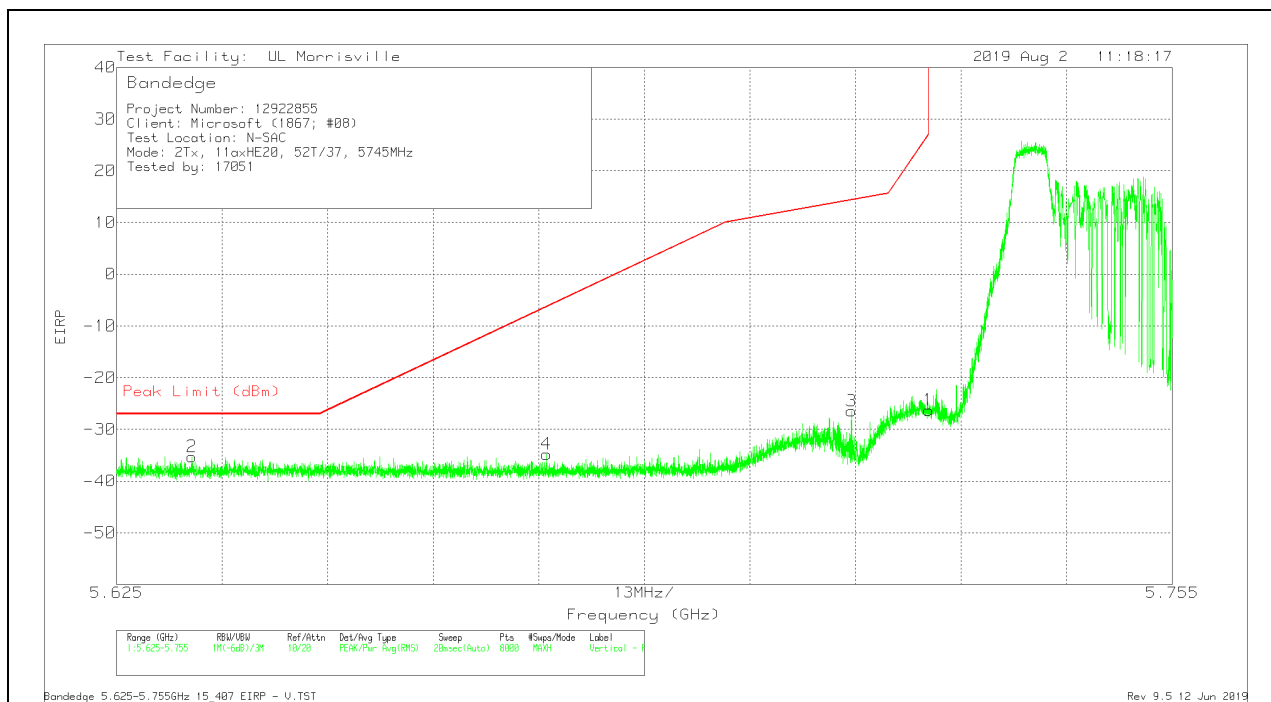
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64826	-59.15	Pk	34.6	-22.9	11.8	-35.65	-27	-8.65	250	386	H
4	5.68122	-59.03	Pk	34.6	-22.9	11.8	-35.53	-3.9	-31.63	250	386	H
3	5.71343	-55.08	Pk	34.6	-22.9	11.8	-31.58	13.76	-45.34	250	386	H
1	5.725	-54.94	Pk	34.6	-22.9	11.8	-31.44	27	-58.44	250	386	H

Pk - Peak detector

VERTICAL RESULT



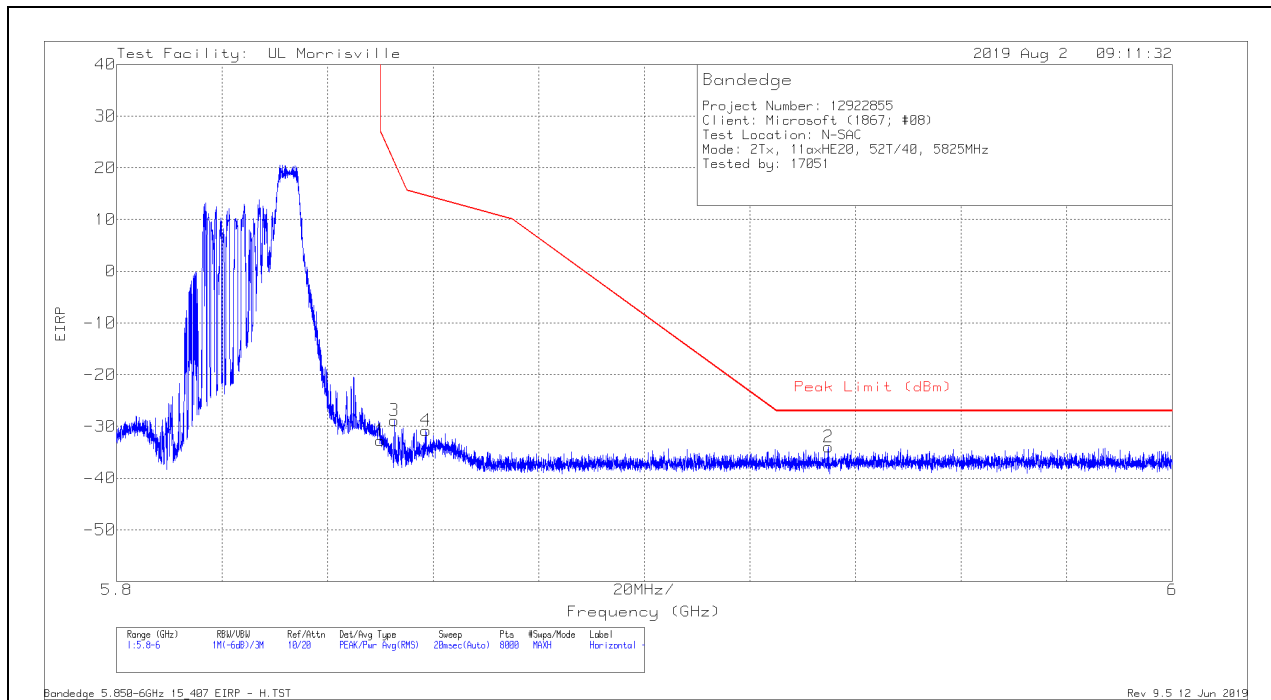
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6343	-58.67	Pk	34.6	-23	11.8	-35.27	-27	-8.27	17	212	V
4	5.67795	-58.17	Pk	34.6	-23	11.8	-34.77	-6.32	-28.45	17	212	V
3	5.71549	-49.96	Pk	34.6	-22.9	11.8	-26.46	14.34	-40.8	17	212	V
1	5.725	-49.76	Pk	34.6	-22.9	11.8	-26.26	27	-53.26	17	212	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 52-Tones, RU Index 40

BANDEDGE (HIGH CHANNEL)

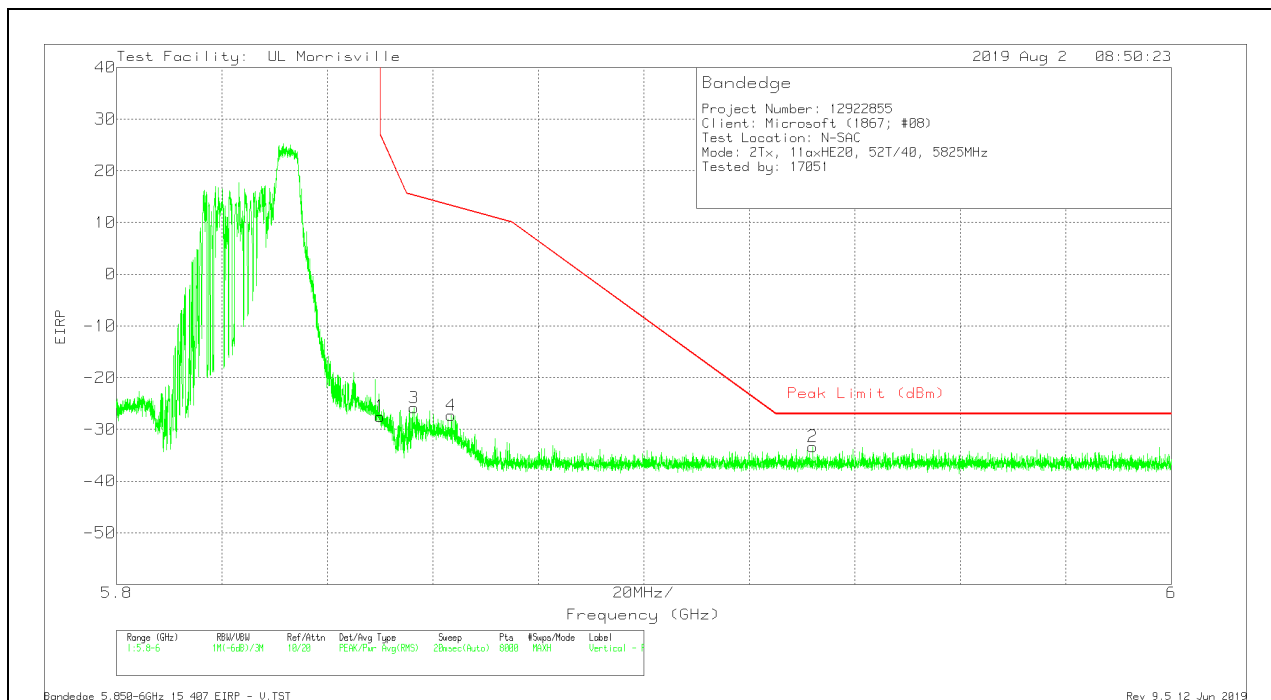
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-56.89	Pk	34.8	-22.4	11.8	-32.69	26.99	-59.68	359	372	H
3	5.85256	-53.03	Pk	34.8	-22.4	11.8	-28.83	21.17	-50	359	372	H
4	5.85861	-54.96	Pk	34.8	-22.4	11.8	-30.76	14.59	-45.35	359	372	H
2	5.93482	-58.64	Pk	34.9	-22	11.8	-33.94	-27	-6.94	359	372	H

Pk - Peak detector

VERTICAL RESULT



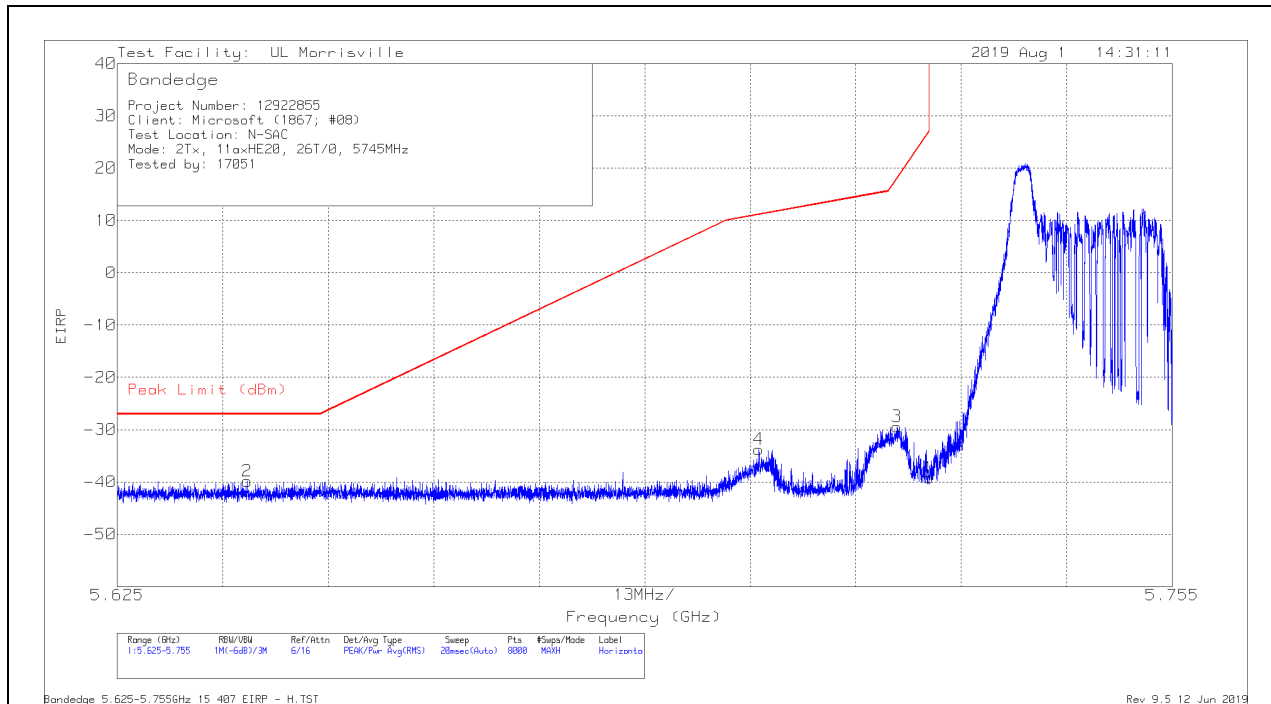
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-51.68	Pk	34.8	-22.4	11.8	-27.48	26.99	-54.47	16	221	V
3	5.85643	-50	Pk	34.8	-22.4	11.8	-25.8	15.2	-41	16	221	V
4	5.86341	-51.52	Pk	34.8	-22.4	11.8	-27.32	13.25	-40.57	16	221	V
2	5.93199	-58.03	Pk	34.9	-22	11.8	-33.33	-27	-6.33	16	221	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

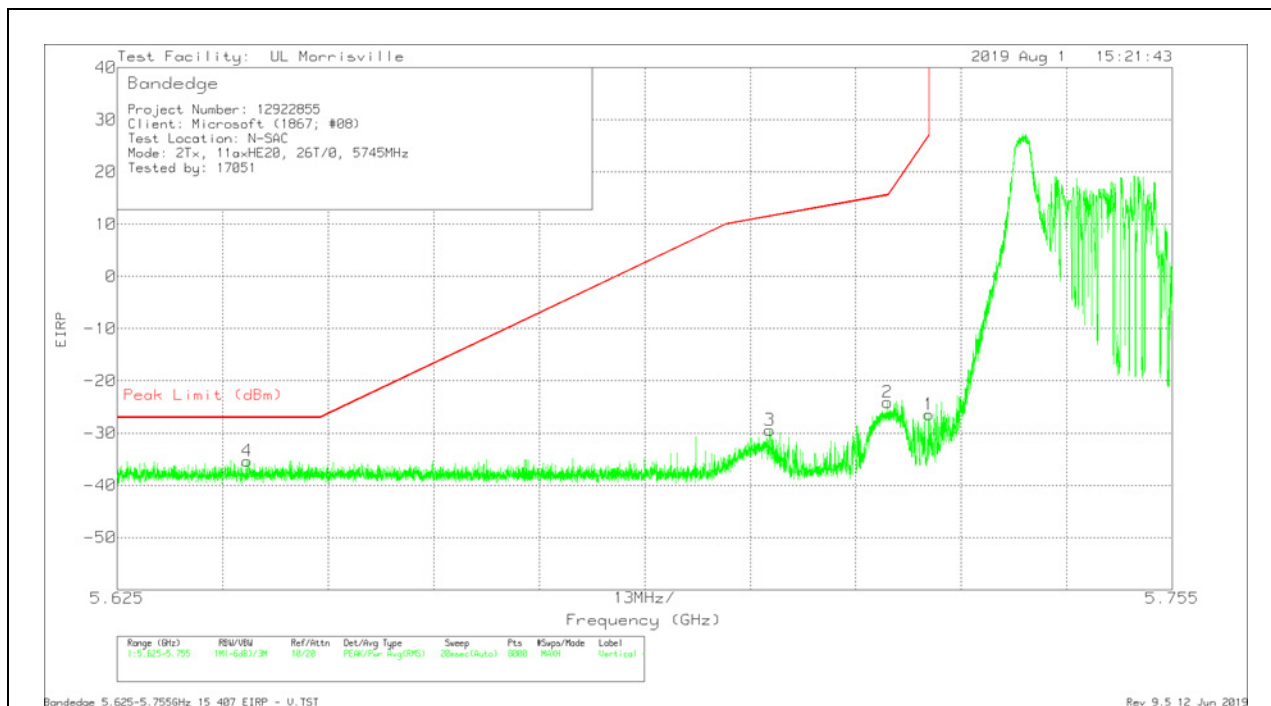
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64101	-63.26	Pk	34.6	-23	11.8	-39.86	-27	-12.86	250	385	H
4	5.70406	-57.38	Pk	34.6	-22.8	11.8	-33.78	11.14	-44.92	250	385	H
3	5.72107	-52.93	Pk	34.6	-22.9	11.8	-29.43	18.03	-47.46	250	385	H
1	5.725	-62.72	Pk	34.6	-22.9	11.8	-39.22	27	-66.22	250	385	H

Pk - Peak detector

VERTICAL RESULT



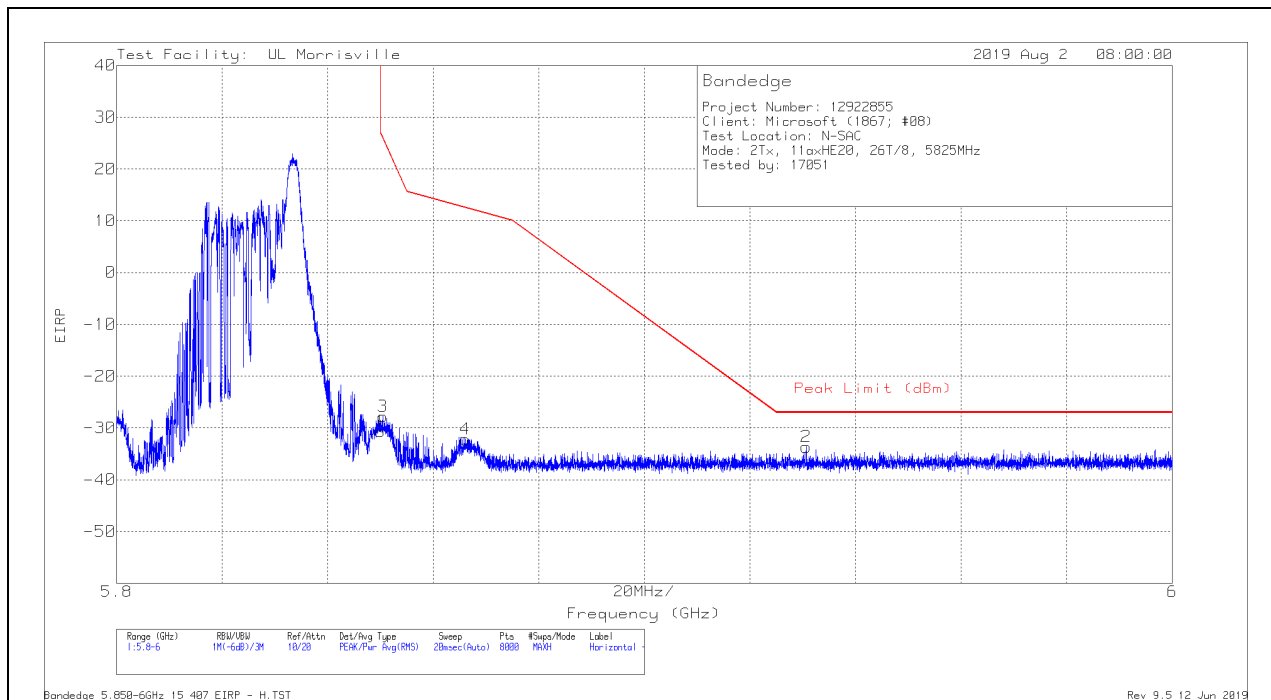
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	5.64102	-58.73	Pk	34.6	-23	11.8	-35.33	-27	-8.33	288	231	V
3	5.7054	-53.04	Pk	34.6	-22.8	11.8	-29.44	11.51	-40.95	288	231	V
2	5.71993	-47.59	Pk	34.6	-22.9	11.8	-24.09	15.58	-39.67	288	231	V
1	5.725	-49.95	Pk	34.6	-22.9	11.8	-26.45	27	-53.45	288	231	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 8

BANDEDGE (HIGH CHANNEL)

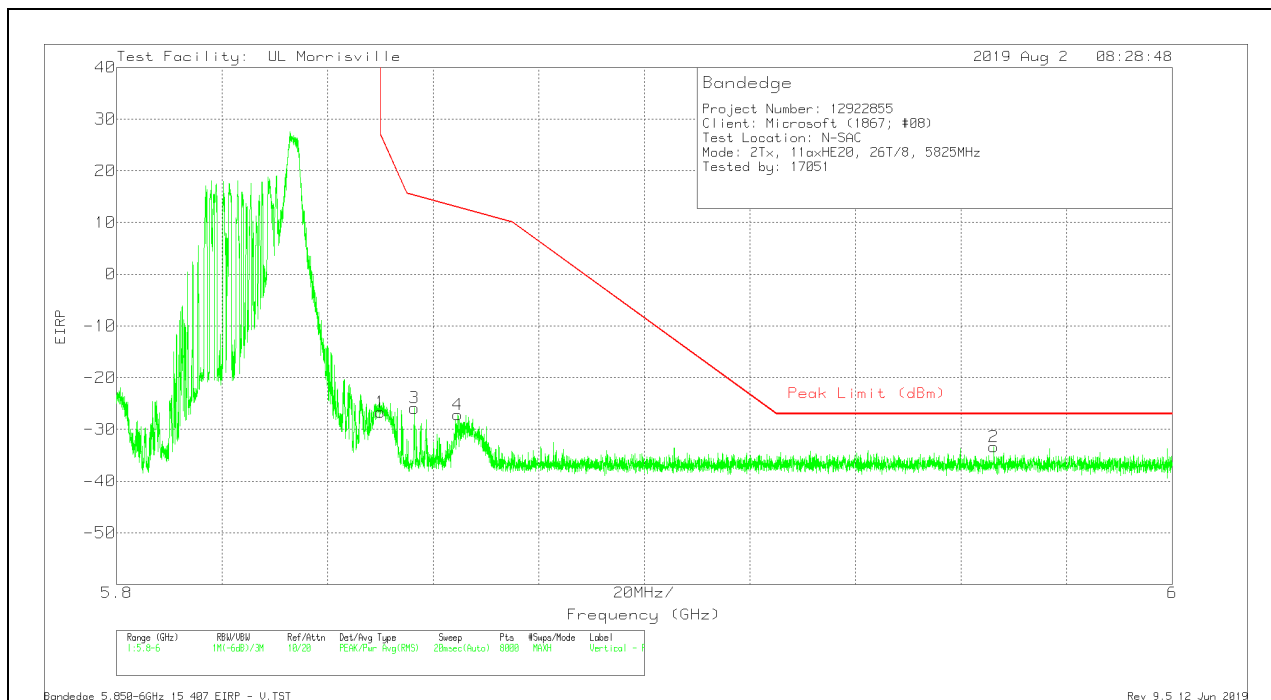
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-54.92	Pk	34.8	-22.4	11.8	-30.72	26.99	-57.71	0	371	H
3	5.85041	-51.99	Pk	34.8	-22.4	11.8	-27.79	26.07	-53.86	0	371	H
4	5.86608	-56.32	Pk	34.8	-22.4	11.8	-32.12	12.5	-44.62	0	371	H
2	5.93064	-58.35	Pk	34.9	-22	11.8	-33.65	-27	-6.65	0	371	H

Pk - Peak detector

VERTICAL RESULT



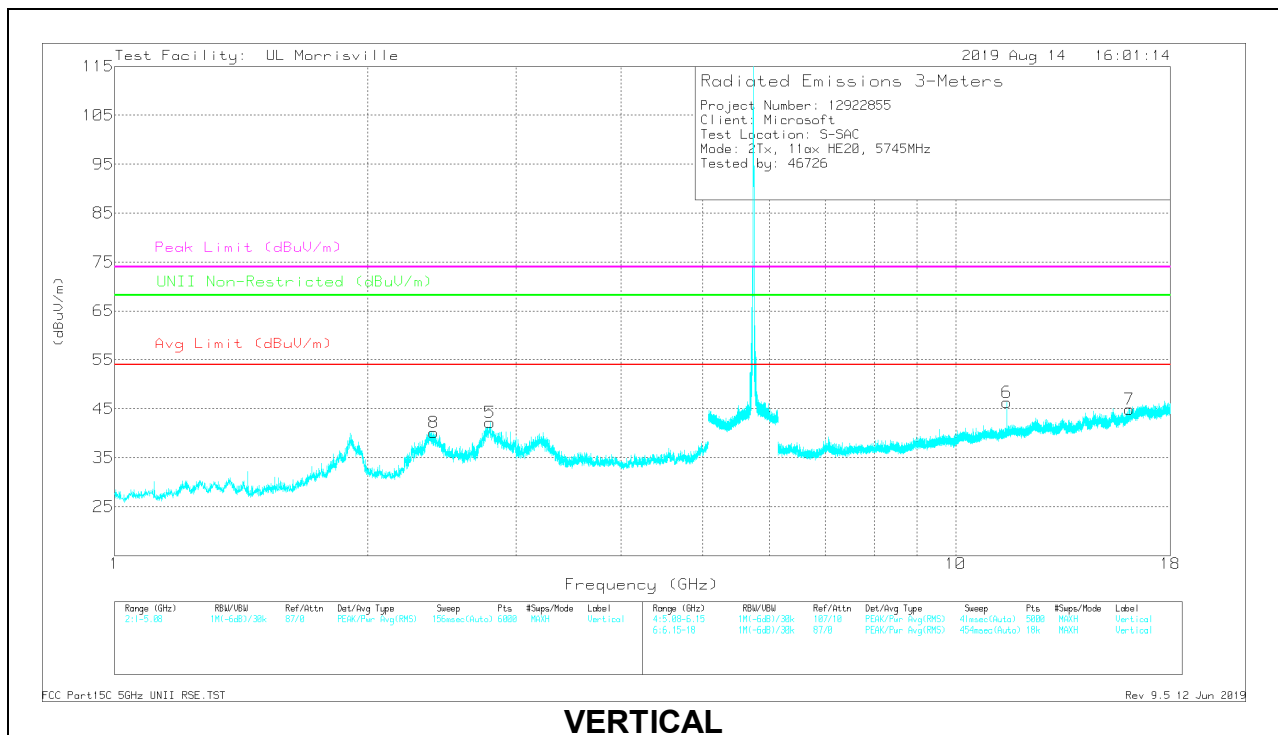
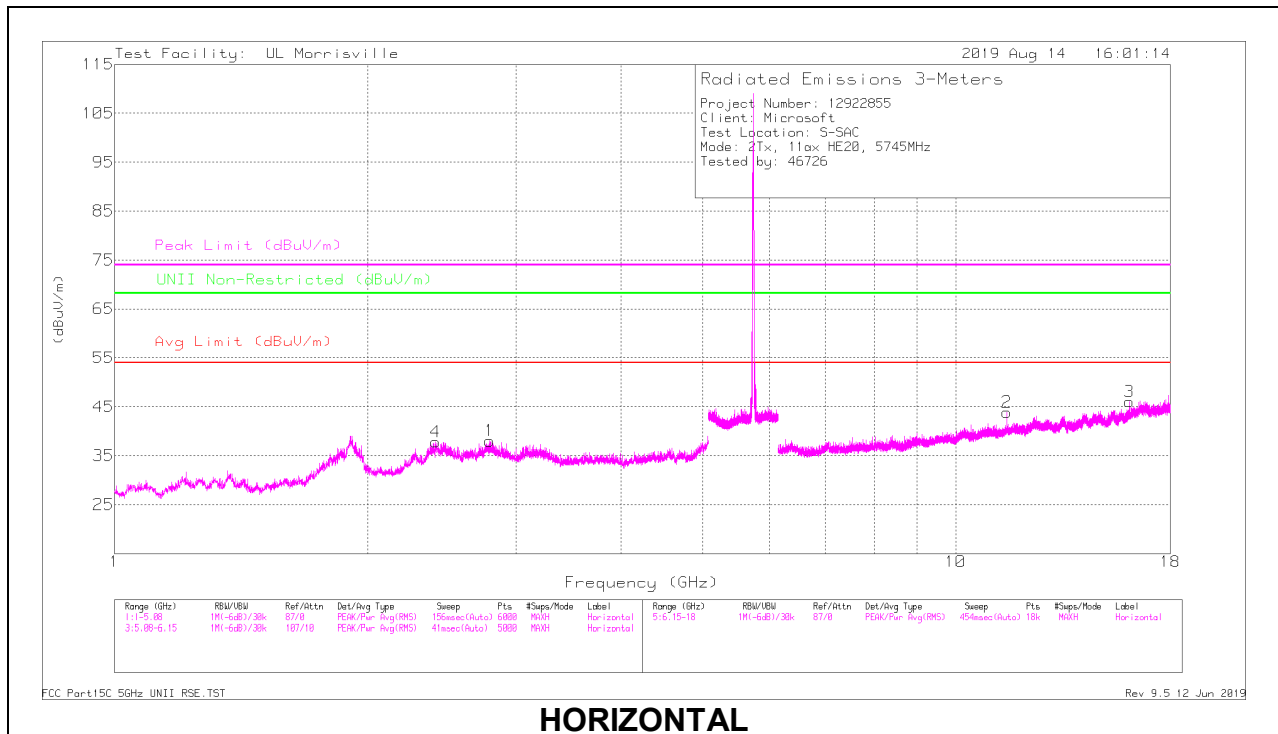
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85001	-50.86	Pk	34.8	-22.4	11.8	-26.66	26.99	-53.65	289	248	V
3	5.85643	-50.07	Pk	34.8	-22.4	11.8	-25.87	15.2	-41.07	289	248	V
4	5.86466	-51.36	Pk	34.8	-22.4	11.8	-27.16	12.9	-40.06	289	248	V
2	5.96617	-58.26	Pk	35	-21.9	11.8	-33.36	-27	-6.36	289	248	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 8

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.8089	47.83	PK-U	32.1	-33.5	46.43	-	-	74	-27.57	-	-	142	140	H
	* ** 2.80893	35.94	ADR	32.1	-33.5	34.54	54	-19.46	-	-	-	-	142	140	H
5	* ** 2.80408	51.62	PK-U	32.2	-33.5	50.32	-	-	74	-23.68	-	-	101	220	V
	* ** 2.80415	40.07	ADR	32.2	-33.5	38.77	54	-15.23	-	-	-	-	101	220	V
8	* ** 2.37462	51.16	PK-U	31.8	-33.9	49.06	-	-	74	-24.94	-	-	91	200	V
	* ** 2.3743	38.39	ADR	31.8	-33.9	36.29	54	-17.71	-	-	-	-	91	200	V
2	* ** 11.50701	43.51	PK-U	38.1	-24.4	57.21	-	-	74	-16.79	-	-	314	313	H
	* ** 11.5071	33.64	ADR	38.1	-24.4	47.34	54	-6.66	-	-	-	-	314	313	H
3	* ** 16.0825	34.78	PK-U	40.9	-24.5	51.18	-	-	74	-22.82	-	-	96	175	H
	* ** 16.08263	22.61	ADR	40.9	-24.5	39.01	54	-14.99	-	-	-	-	96	175	H
6	* ** 11.50761	39.84	PK-U	38.1	-24.4	53.54	-	-	74	-20.46	-	-	91	105	V
	* ** 11.50761	28.24	ADR	38.1	-24.4	41.94	54	-12.06	-	-	-	-	91	105	V
7	* ** 16.0952	34.94	PK-U	40.9	-24.5	51.34	-	-	74	-22.66	-	-	206	278	V
	* ** 16.09522	22.99	ADR	40.9	-24.5	39.39	54	-14.61	-	-	-	-	206	278	V
4	2.4019	48.64	PK-U	31.9	-34.1	46.44	-	-	-	-	68.2	-21.76	358	256	H

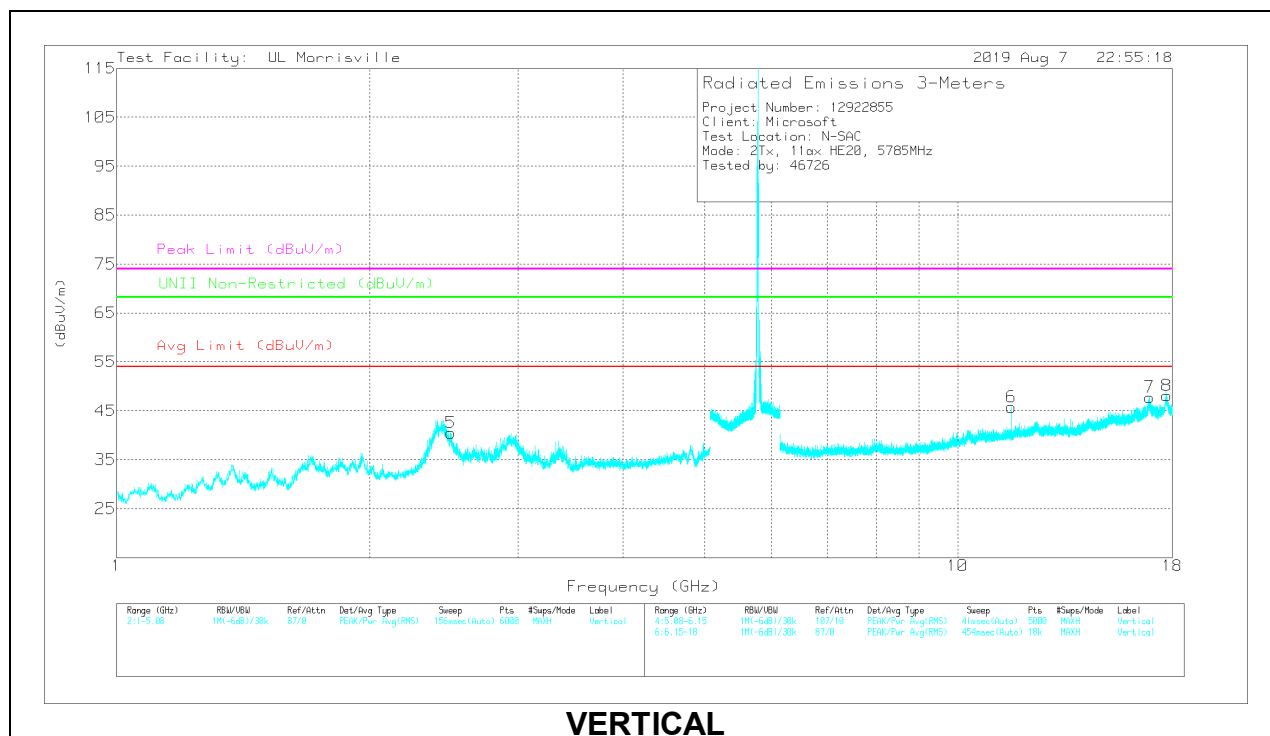
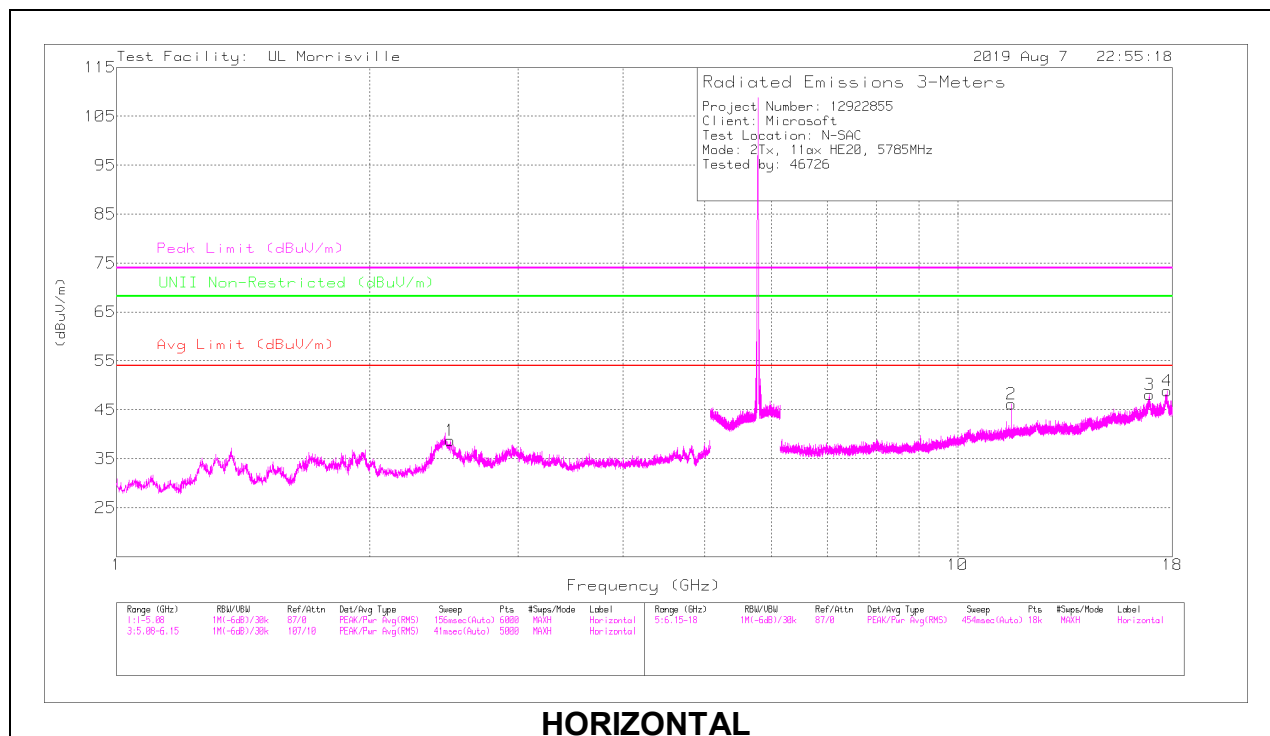
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48978	48.45	PK-U	32.4	-34.2	46.65	-	-	74	-27.35	-	-	282	136	H
	* ** 2.48974	36.26	ADR	32.4	-34.2	34.46	54	-19.54	-	-	-	-	282	136	H
5	* ** 2.49457	51.48	PK-U	32.5	-34.2	49.78	-	-	74	-24.22	-	-	15	257	V
	* ** 2.49455	39.39	ADR	32.5	-34.2	37.69	54	-16.31	-	-	-	-	15	257	V
2	* ** 11.587	46.41	PK-U	38.3	-26.4	58.31	-	-	74	-15.69	-	-	255	350	H
	* ** 11.58698	36.88	ADR	38.3	-26.4	48.78	54	-5.22	-	-	-	-	255	350	H
4	* ** 17.7385	34.53	PK-U	41.1	-20.3	55.33	-	-	74	-18.67	-	-	327	400	H
	* ** 17.7385	22.08	ADR	41.1	-20.3	42.88	54	-11.12	-	-	-	-	327	400	H
6	* ** 11.58666	43.03	PK-U	38.3	-26.4	54.93	-	-	74	-19.07	-	-	9	371	V
	* ** 11.58674	32.12	ADR	38.3	-26.4	44.02	54	-9.98	-	-	-	-	9	371	V
8	* ** 17.73484	34.09	PK-U	41.1	-20.3	54.89	-	-	74	-19.11	-	-	167	253	V
	* ** 17.73485	22.04	ADR	41.1	-20.3	42.84	54	-11.16	-	-	-	-	167	253	V
3	16.91295	35.99	PK-U	41.4	-23.1	54.29	-	-	-	-	68.2	-13.91	48	385	H
7	16.91459	36.15	PK-U	41.4	-23.2	54.35	-	-	-	-	68.2	-13.85	169	382	V

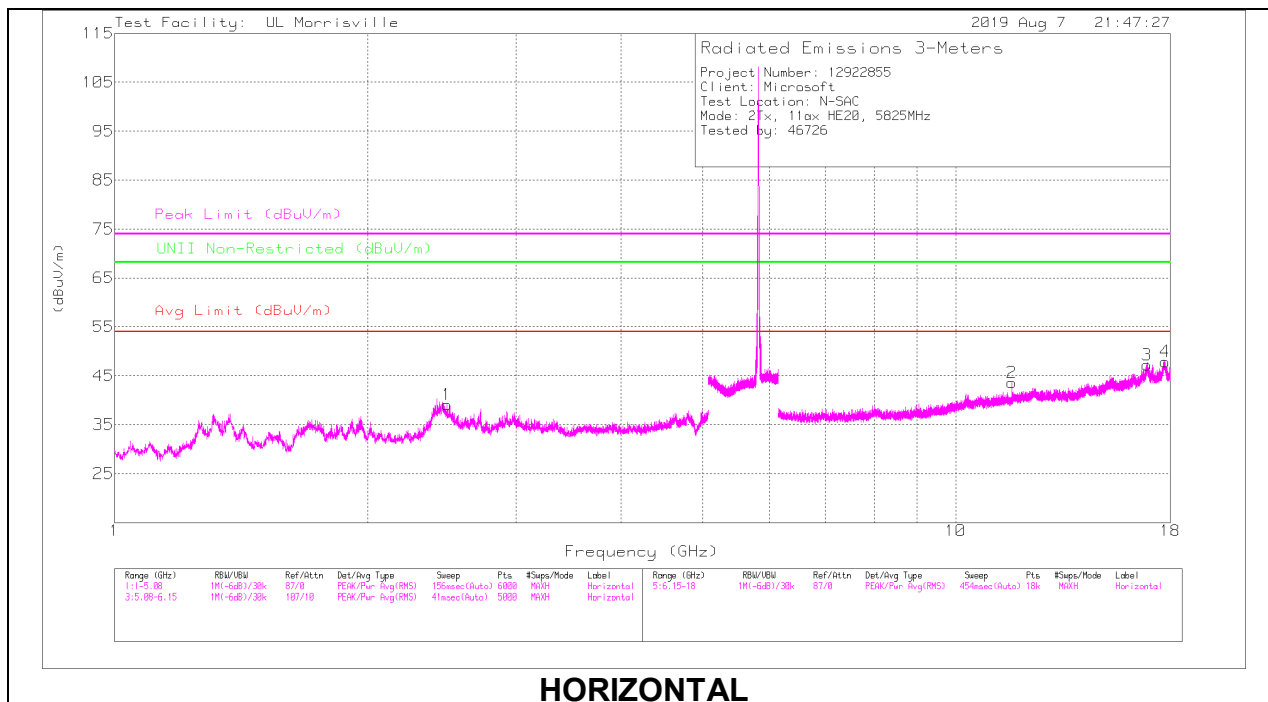
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

** - indicates frequency in Taiwan NCC LP0002 Restricted Band

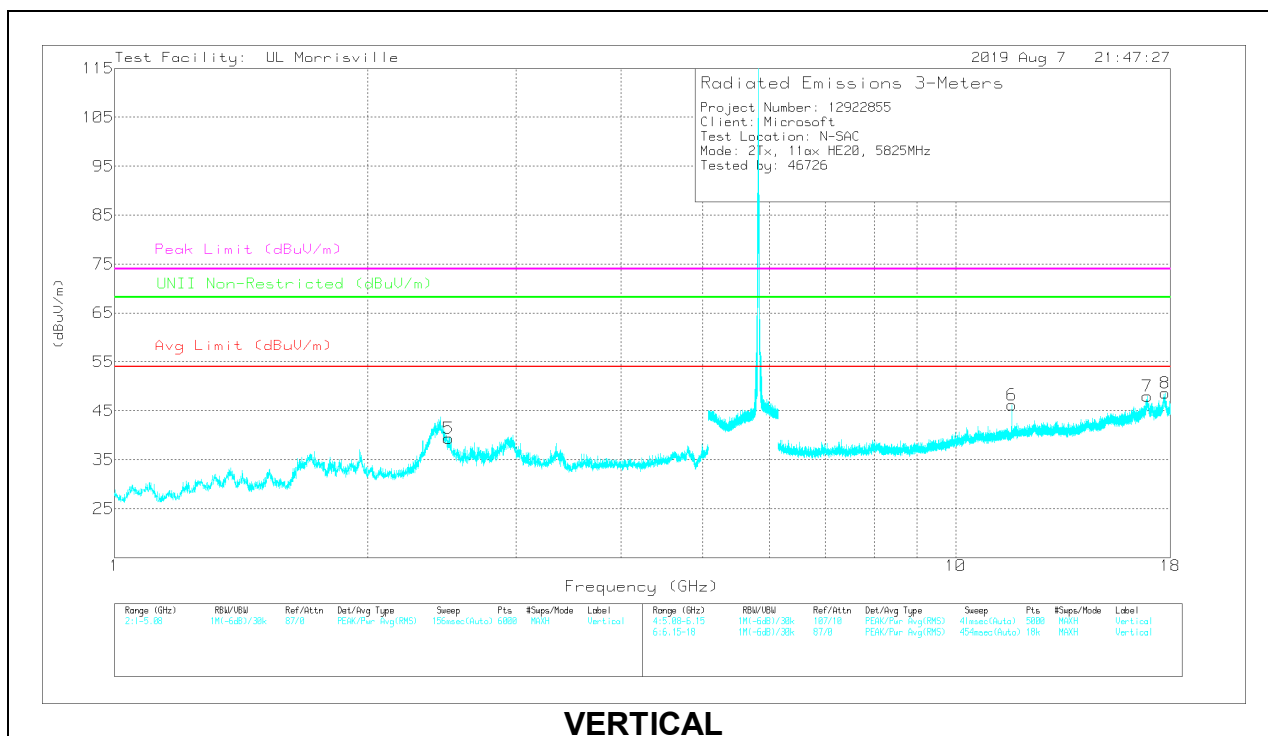
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* ** 2.48422	48.25	PK-U	32.4	-34.2	46.45	-	-	74	-27.55	-	-	278	116	H
	* ** 2.48422	36.05	ADR	32.4	-34.2	34.25	54	-19.75	-	-	-	-	278	116	H
5	* ** 2.49792	51.61	PK-U	32.5	-34.2	49.91	-	-	74	-24.09	-	-	24	236	V
	* ** 2.49794	39.36	ADR	32.5	-34.2	37.66	54	-16.34	-	-	-	-	24	236	V
2	* ** 11.66607	45.73	PK-U	38.4	-26.3	57.83	-	-	74	-16.17	-	-	240	337	H
	* ** 11.66608	33.99	ADR	38.4	-26.3	46.09	54	-7.91	-	-	-	-	240	337	H
4	* ** 17.75324	34.32	PK-U	41.1	-20.8	54.62	-	-	74	-19.38	-	-	314	126	H
	* ** 17.7534	22.11	ADR	41.1	-20.8	42.41	54	-11.59	-	-	-	-	314	126	H
6	* ** 11.66752	41.01	PK-U	38.4	-26.3	53.11	-	-	74	-20.89	-	-	321	123	V
	* ** 11.66752	29.16	ADR	38.4	-26.3	41.26	54	-12.74	-	-	-	-	321	123	V
8	* ** 17.74924	34.4	PK-U	41.1	-20.6	54.9	-	-	74	-19.1	-	-	43	229	V
	* ** 17.74934	22.2	ADR	41.1	-20.6	42.7	54	-11.3	-	-	-	-	43	229	V
3	16.89314	35.89	PK-U	41.3	-23	54.19	-	-	-	-	68.2	-14.01	141	227	H
7	16.90233	35.7	PK-U	41.3	-22.9	54.1	-	-	-	-	68.2	-14.1	34	251	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

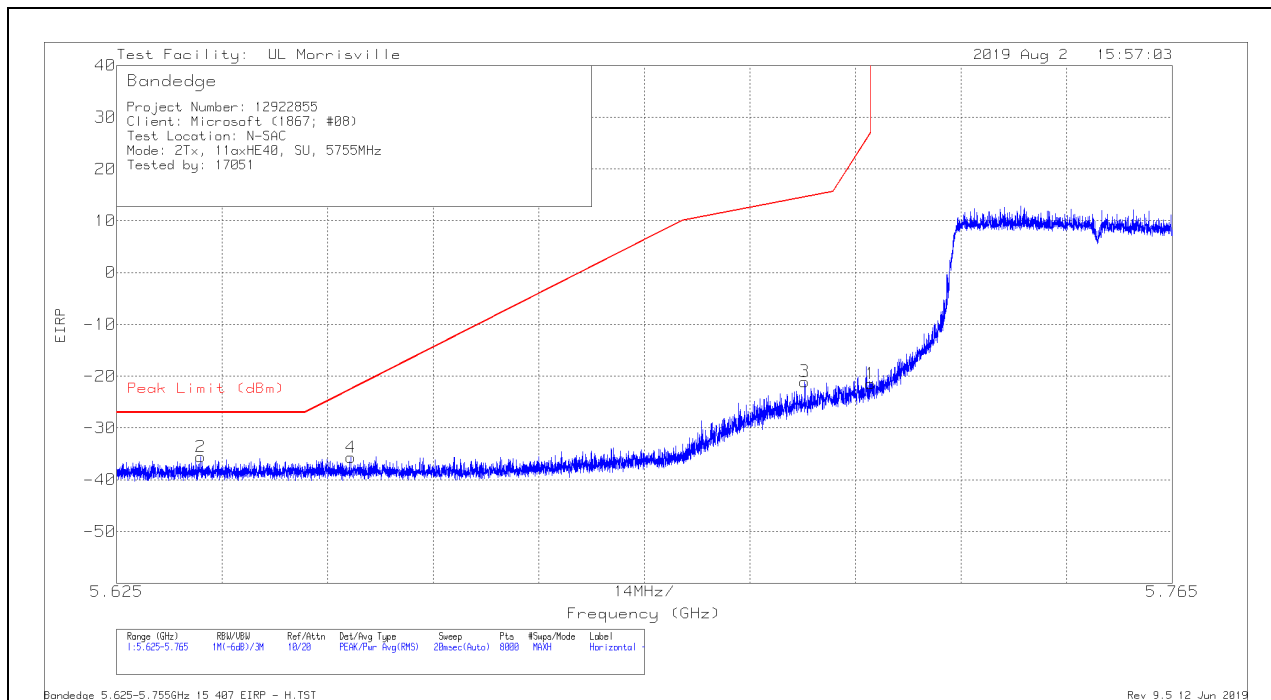
ADR - U-NII AD primary method, RMS average

9.1.2. TX ABOVE 1 GHz 802.11ax HE40 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 OFDMA MODE – SU MODE

BANDEDGE (LOW CHANNEL)

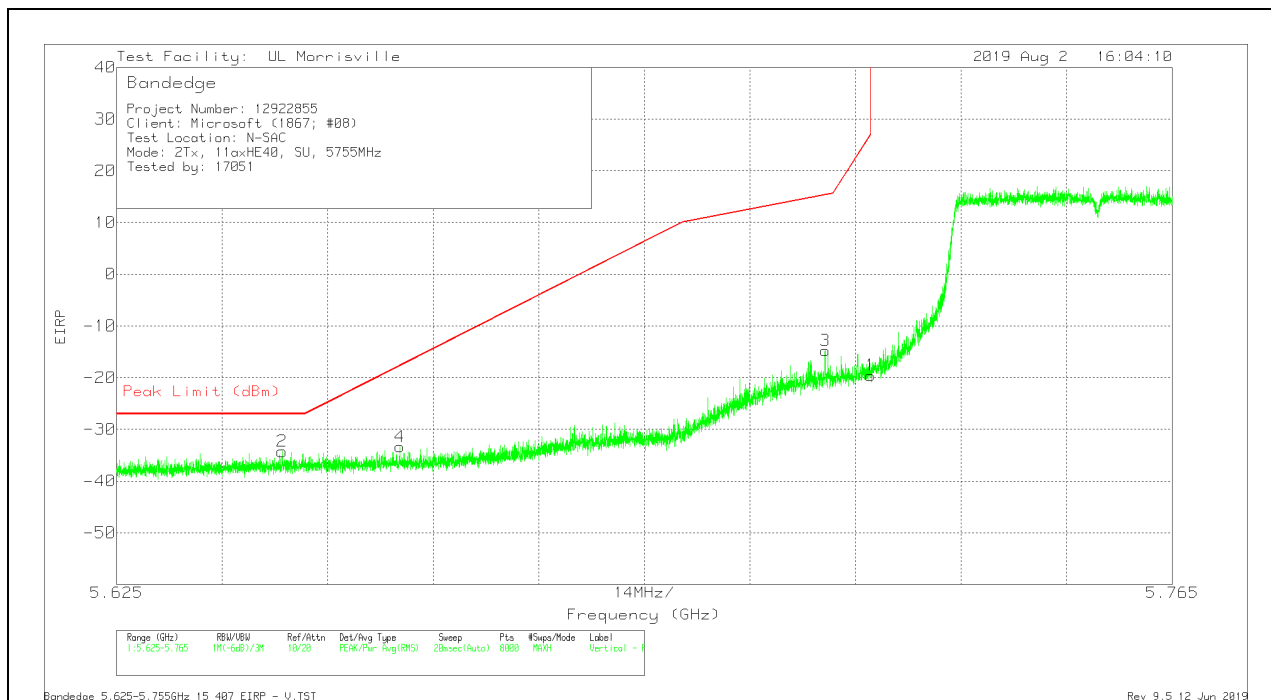
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63617	-58.93	Pk	34.6	-23	11.8	-35.53	-27	-8.53	250	385	H
4	5.65607	-59.2	Pk	34.6	-22.9	11.8	-35.7	-22.51	-13.19	250	385	H
3	5.71622	-44.54	Pk	34.6	-22.9	11.8	-21.04	14.54	-35.58	250	385	H
1	5.72499	-44.92	Pk	34.6	-22.9	11.8	-21.42	26.97	-48.39	250	385	H

Pk - Peak detector

VERTICAL RESULT

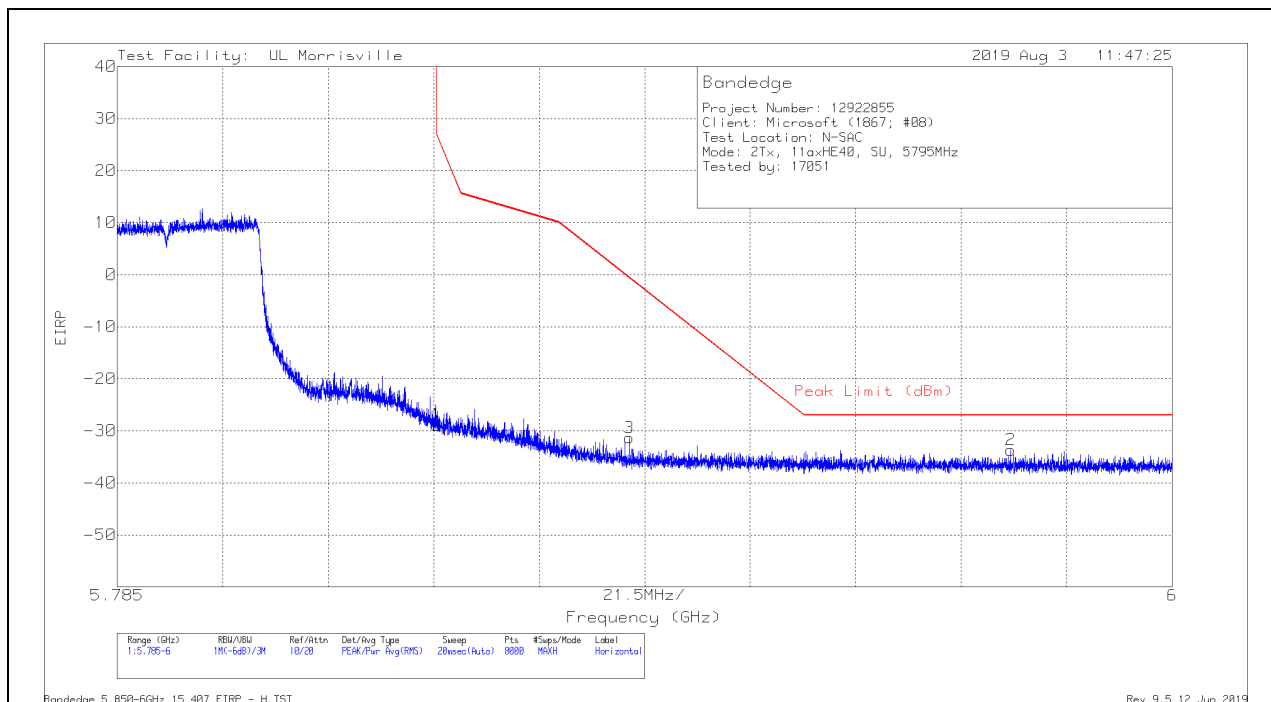


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64695	-57.76	Pk	34.6	-22.9	11.8	-34.26	-27	-7.26	280	234	V
4	5.66256	-56.78	Pk	34.6	-23	11.8	-33.38	-17.71	-15.67	280	234	V
3	5.71897	-38.26	Pk	34.6	-22.9	11.8	-14.76	15.31	-30.07	280	234	V
1	5.72499	-43.06	Pk	34.6	-22.9	11.8	-19.56	26.97	-46.53	280	234	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

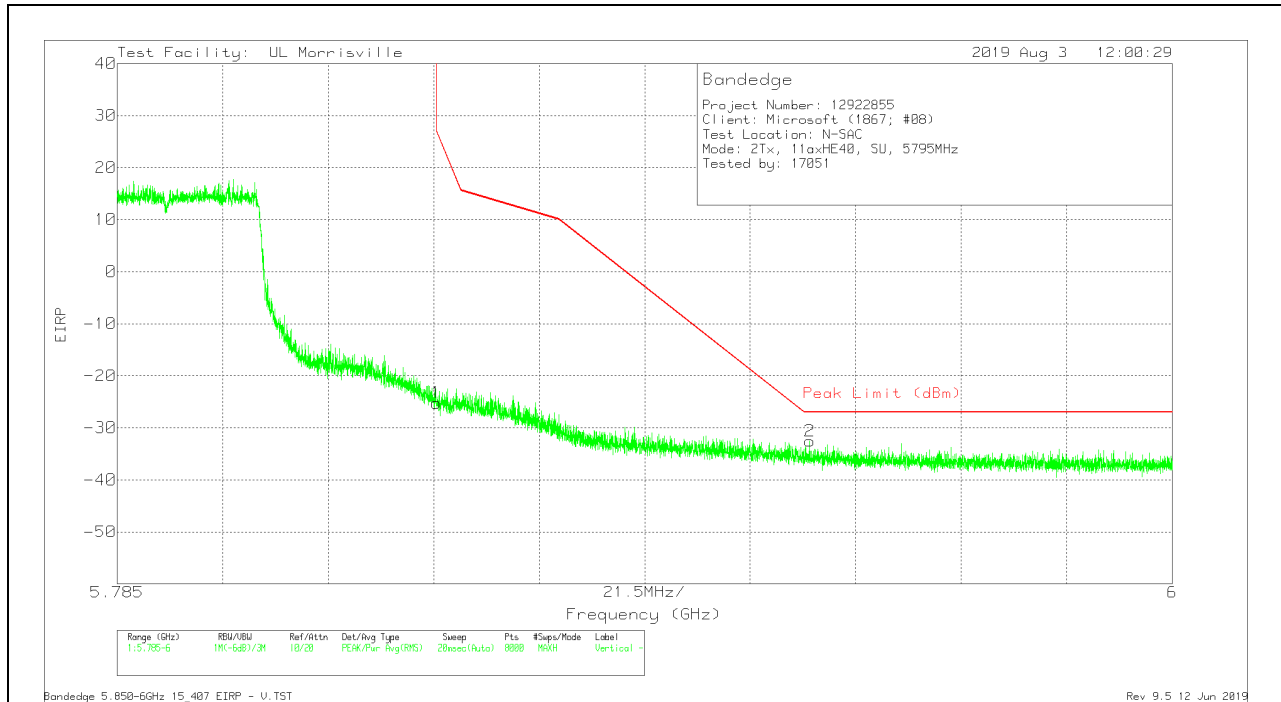
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-53.08	Pk	34.8	-22.4	11.8	-28.88	26.96	-55.84	0	395	H
3	5.88938	-55.94	Pk	34.9	-22.1	11.8	-31.34	-.64	-30.7	0	395	H
2	5.96707	-58.56	Pk	35	-21.9	11.8	-33.66	-27	-6.66	0	395	H

Pk - Peak detector

VERTICAL RESULT



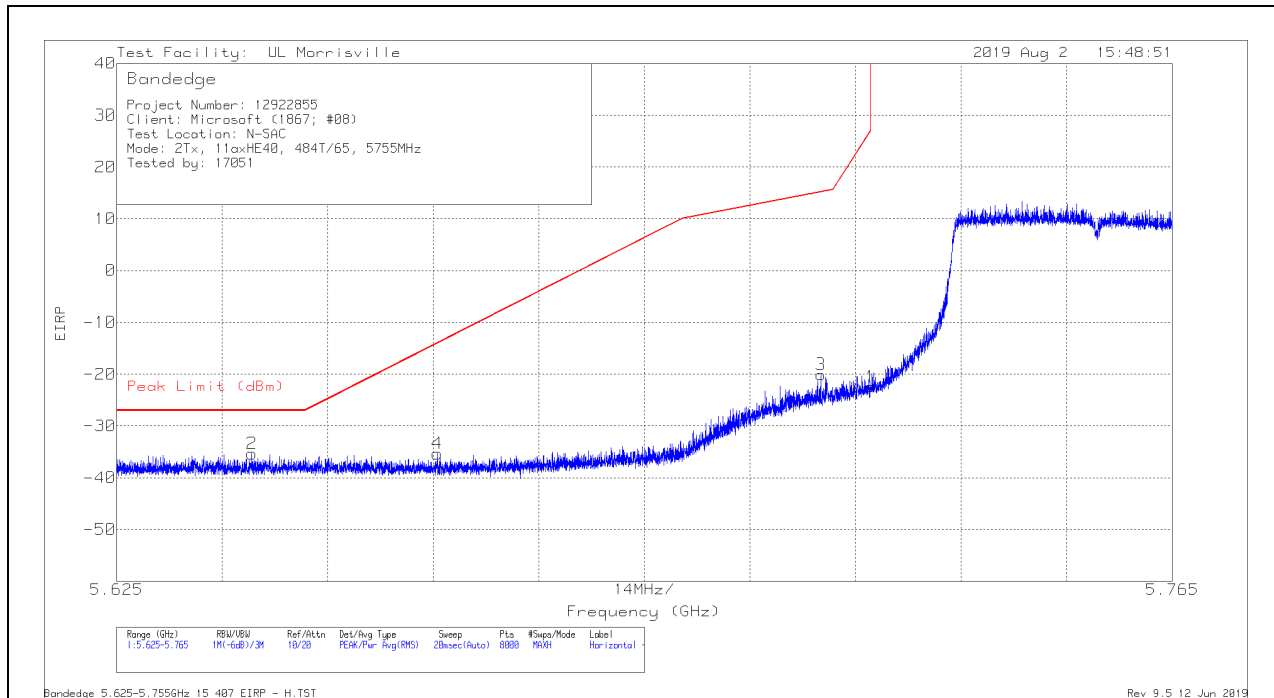
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-49.42	Pk	34.8	-22.4	11.8	-25.22	26.96	-52.18	15	222	V
2	5.92616	-57.23	Pk	34.9	-22	11.8	-32.53	-27	-5.53	15	222	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 484-Tones, RU Index 65

BANDEDGE (LOW CHANNEL)

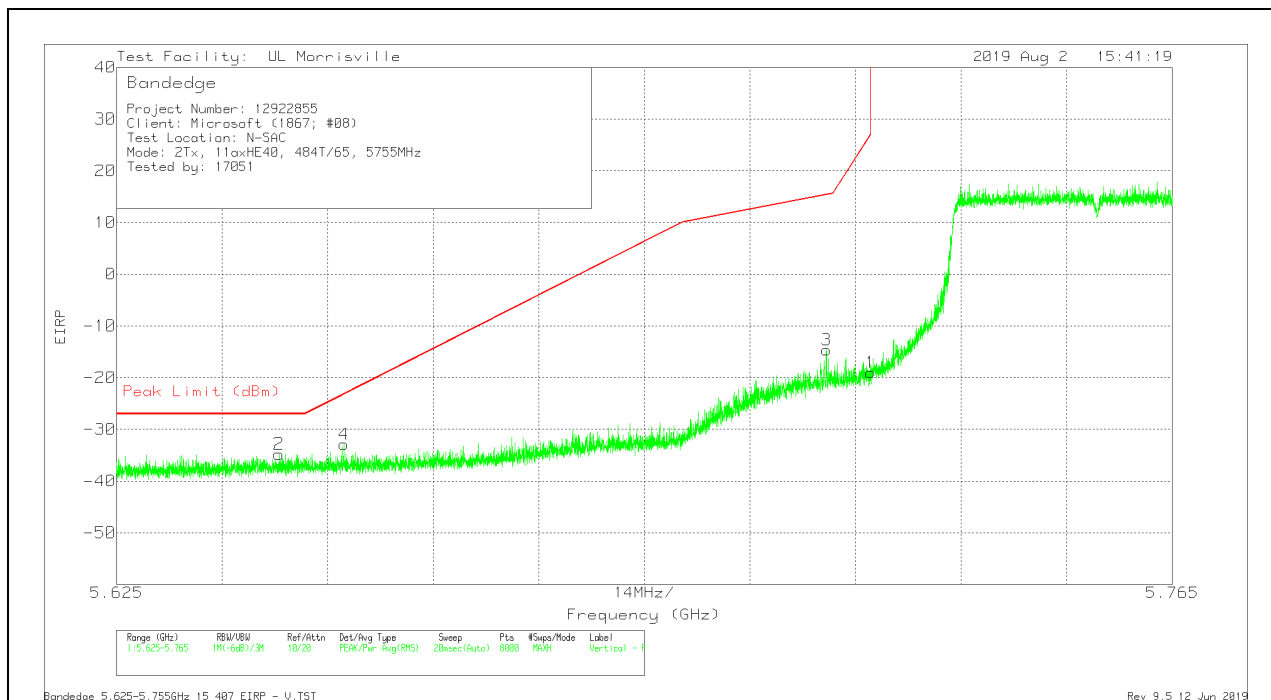
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64294	-58.85	Pk	34.6	-22.9	11.8	-35.35	-27	-8.35	252	384	H
4	5.66753	-58.75	Pk	34.6	-23	11.8	-35.35	-14.03	-21.32	252	384	H
3	5.71837	-43.58	Pk	34.6	-22.9	11.8	-20.08	15.14	-35.22	252	384	H
1	5.72499	-45.96	Pk	34.6	-22.9	11.8	-22.46	26.97	-49.43	252	384	H

Pk - Peak detector

VERTICAL RESULT

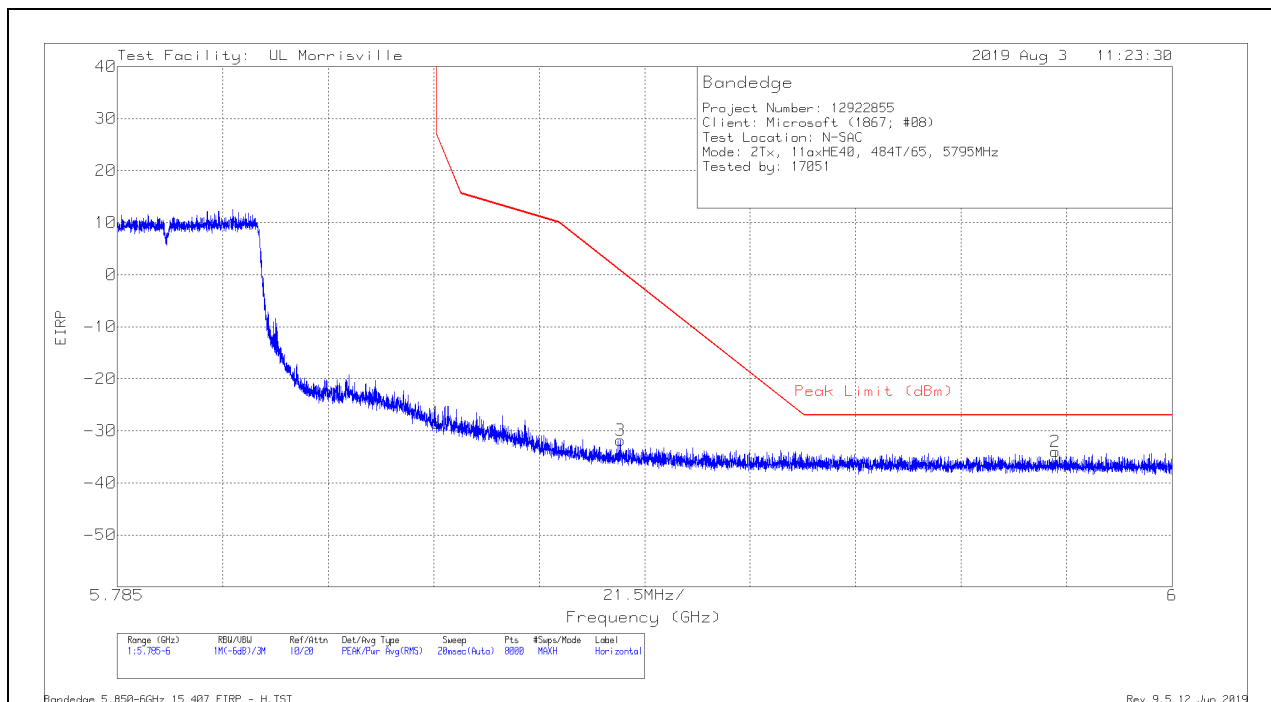


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64653	-58.27	Pk	34.6	-22.9	11.8	-34.77	-27	-7.77	279	230	V
4	5.65517	-56.41	Pk	34.6	-22.9	11.8	-32.91	-23.17	-9.74	279	230	V
3	5.71913	-38.17	Pk	34.6	-22.9	11.8	-14.67	15.36	-30.03	279	230	V
1	5.72499	-42.51	Pk	34.6	-22.9	11.8	-19.01	26.97	-45.98	279	230	V

Pk - Peak detector

BANDEDGE (HIGH CHANNEL)

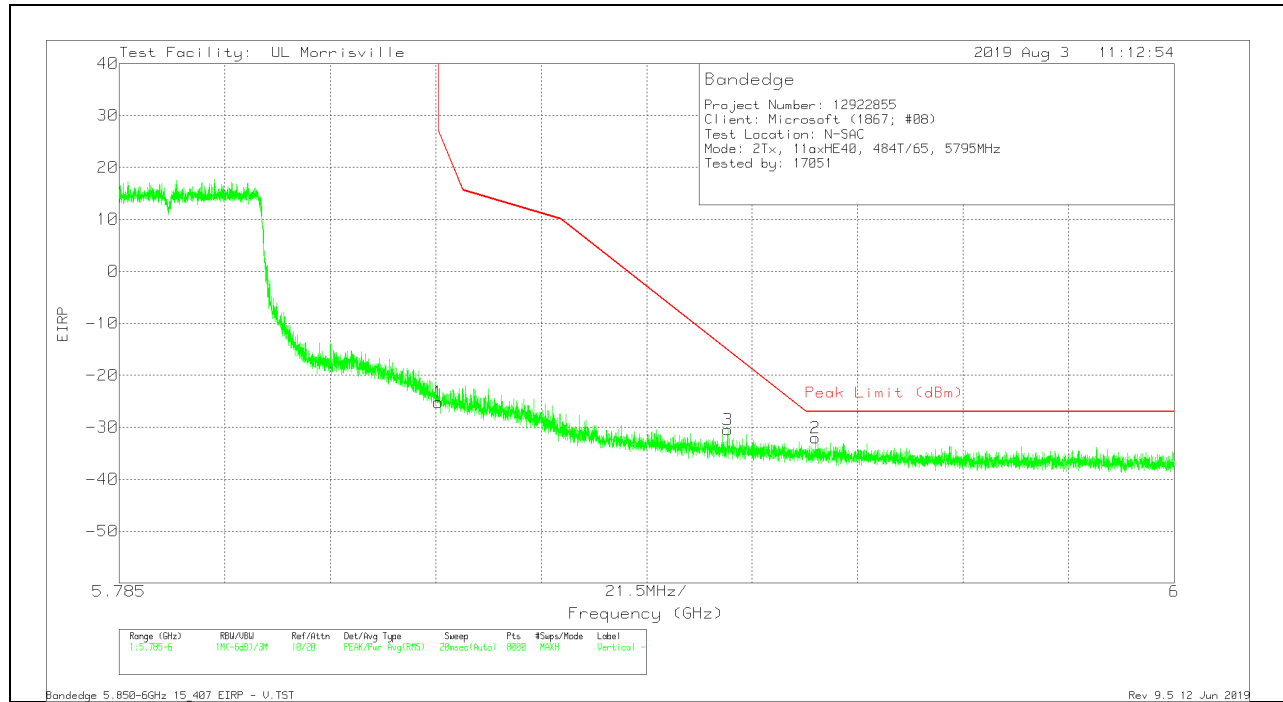
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-52.7	Pk	34.8	-22.4	11.8	-28.5	26.96	-55.46	0	373	H
3	5.88759	-56.41	Pk	34.9	-22.1	11.8	-31.81	.68	-32.49	0	373	H
2	5.97621	-58.99	Pk	35	-21.8	11.8	-33.99	-27	-6.99	0	373	H

Pk - Peak detector

VERTICAL RESULT



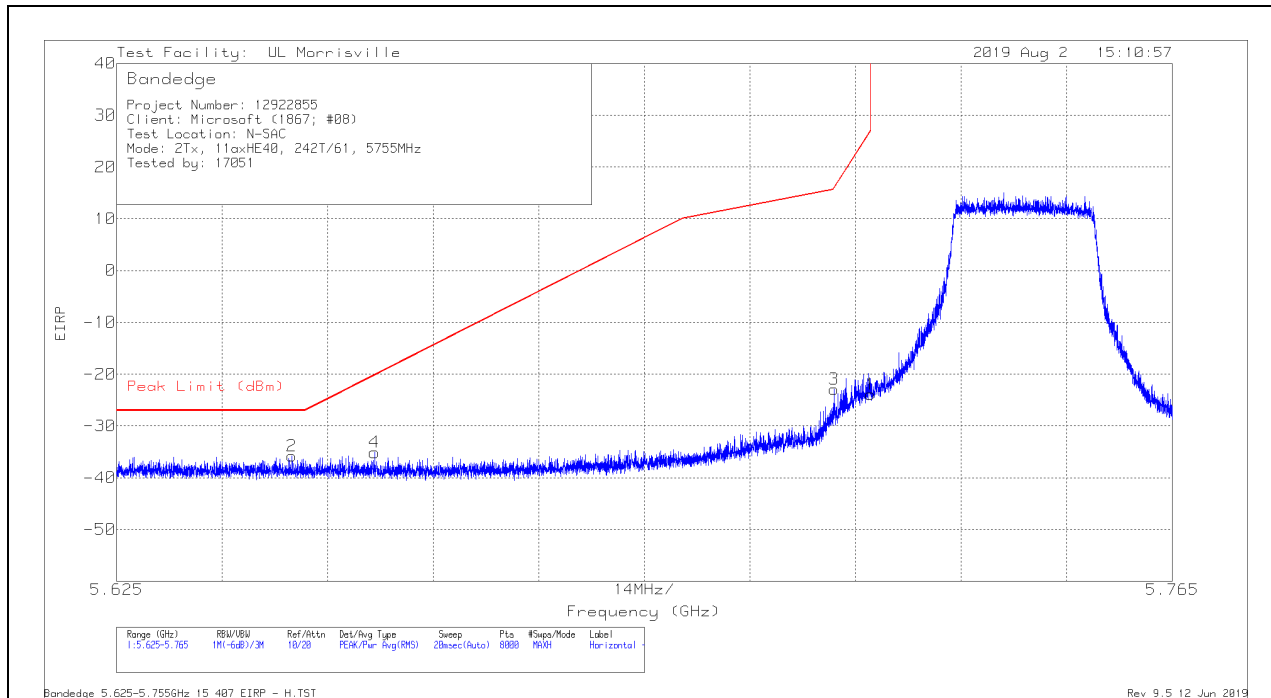
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-49.41	Pk	34.8	-22.4	11.8	-25.21	26.96	-52.17	15	224	V
3	5.90902	-55.1	Pk	34.9	-22.1	11.8	-30.5	-15.17	-15.33	15	224	V
2	5.92686	-56.75	Pk	34.9	-22	11.8	-32.05	-27	-5.05	15	224	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 242-Tones, RU Index 61

BANDEDGE (LOW CHANNEL)

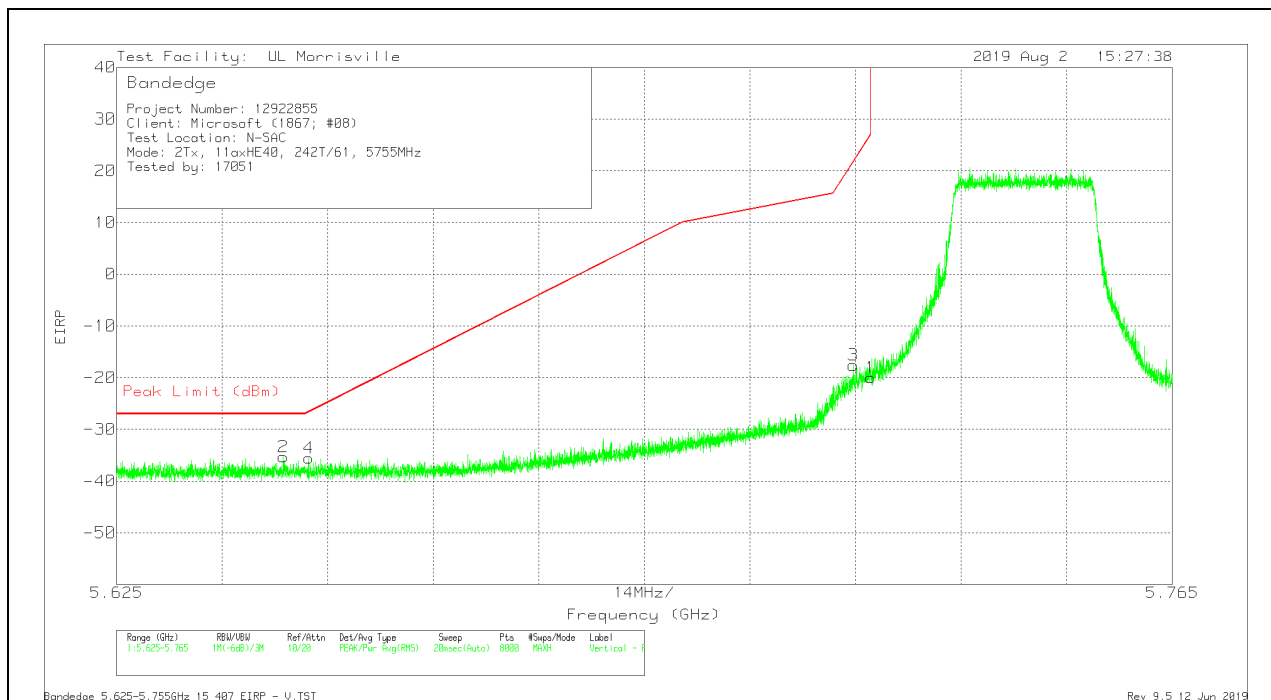
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64826	-59.31	Pk	34.6	-22.9	11.8	-35.81	-27	-8.81	251	386	H
4	5.6592	-58.61	Pk	34.6	-22.9	11.8	-35.11	-20.19	-14.92	251	386	H
3	5.72014	-46.42	Pk	34.6	-22.9	11.8	-22.92	15.92	-38.84	251	386	H
1	5.72499	-47.42	Pk	34.6	-22.9	11.8	-23.92	26.97	-50.89	251	386	H

Pk - Peak detector

VERTICAL RESULT



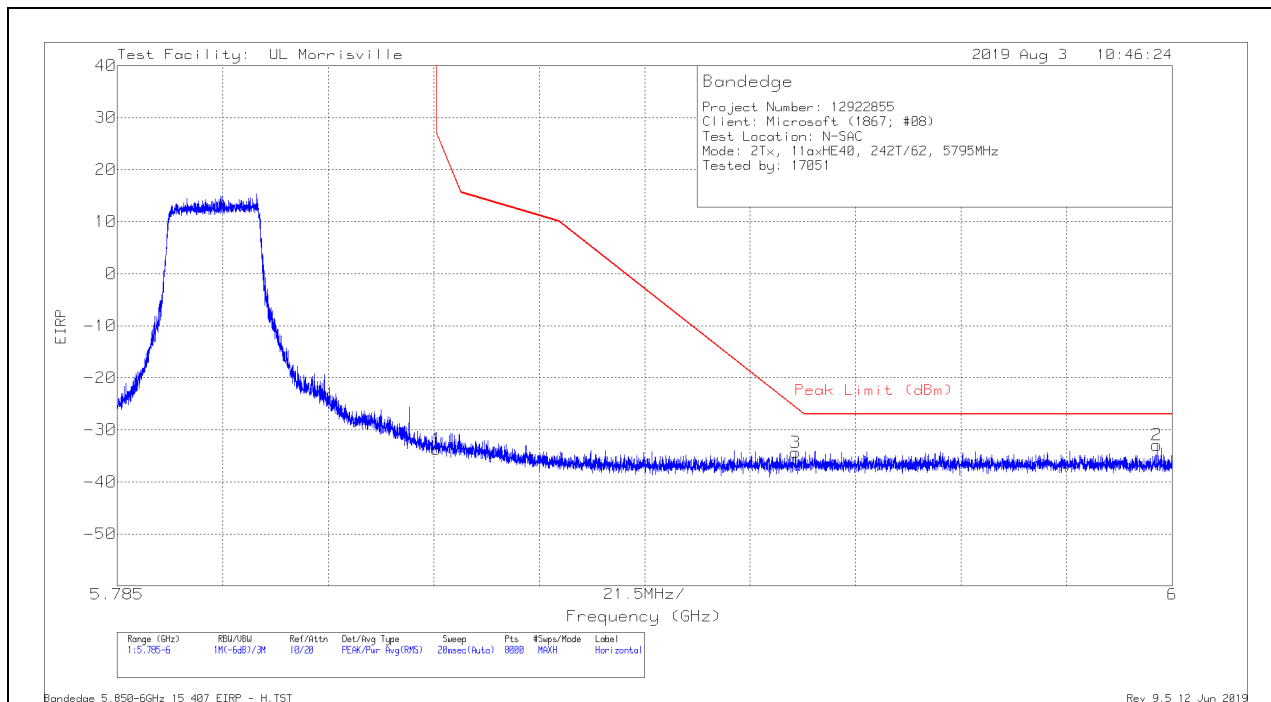
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64711	-58.81	Pk	34.6	-22.9	11.8	-35.31	-27	-8.31	289	234	V
4	5.65047	-59.07	Pk	34.6	-22.9	11.8	-35.57	-26.66	-8.91	289	234	V
3	5.7227	-41.11	Pk	34.6	-22.9	11.8	-17.61	21.75	-39.36	289	234	V
1	5.72499	-43.48	Pk	34.6	-22.9	11.8	-19.98	26.97	-46.95	289	234	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 242-Tones, RU Index 62

BANDEDGE (HIGH CHANNEL)

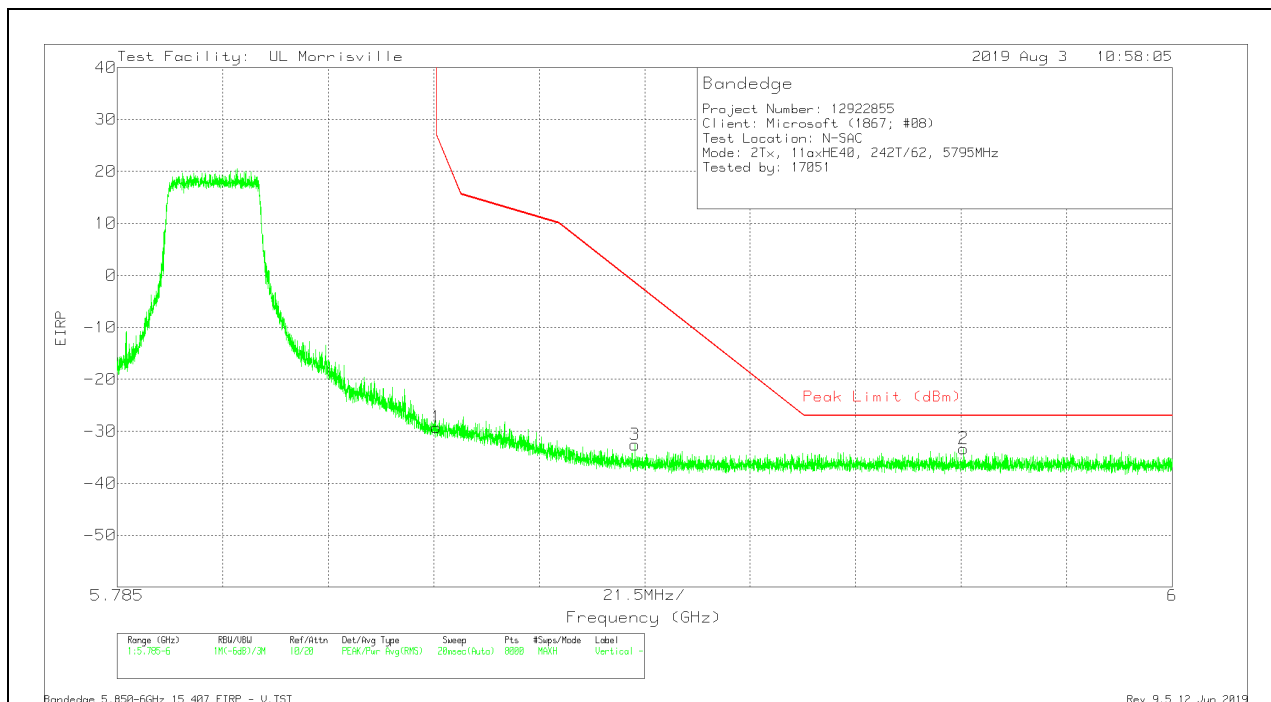
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-57.97	Pk	34.8	-22.4	11.8	-33.77	26.96	-60.73	0	373	H
3	5.92323	-59.04	Pk	34.9	-22	11.8	-34.34	-25.69	-8.65	0	373	H
2	5.99685	-57.85	Pk	35	-21.9	11.8	-32.95	-27	-5.95	0	373	H

Pk - Peak detector

VERTICAL RESULT



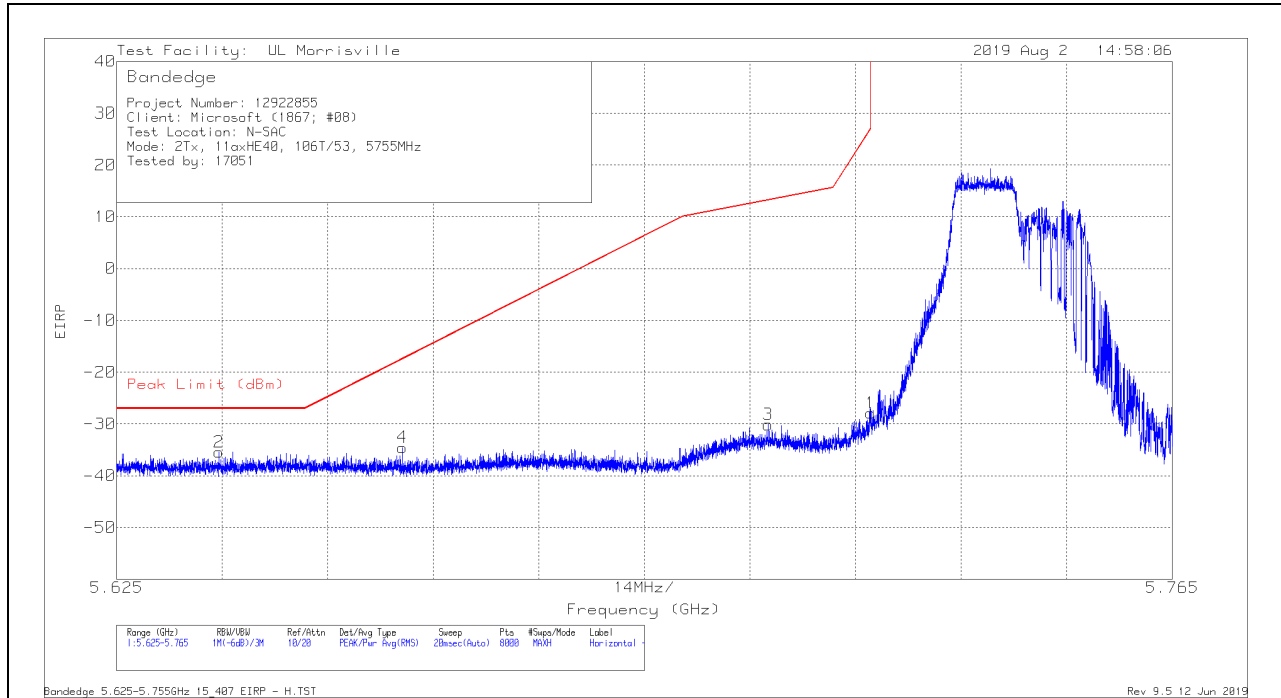
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-53.45	Pk	34.8	-22.4	11.8	-29.25	26.96	-56.21	15	222	V
3	5.89052	-57.18	Pk	34.9	-22.1	11.8	-32.58	-1.49	-31.09	15	222	V
2	5.9575	-58.15	Pk	34.9	-21.9	11.8	-33.35	-27	-6.35	15	222	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 106-Tones, RU Index 53

BANDEDGE (LOW CHANNEL)

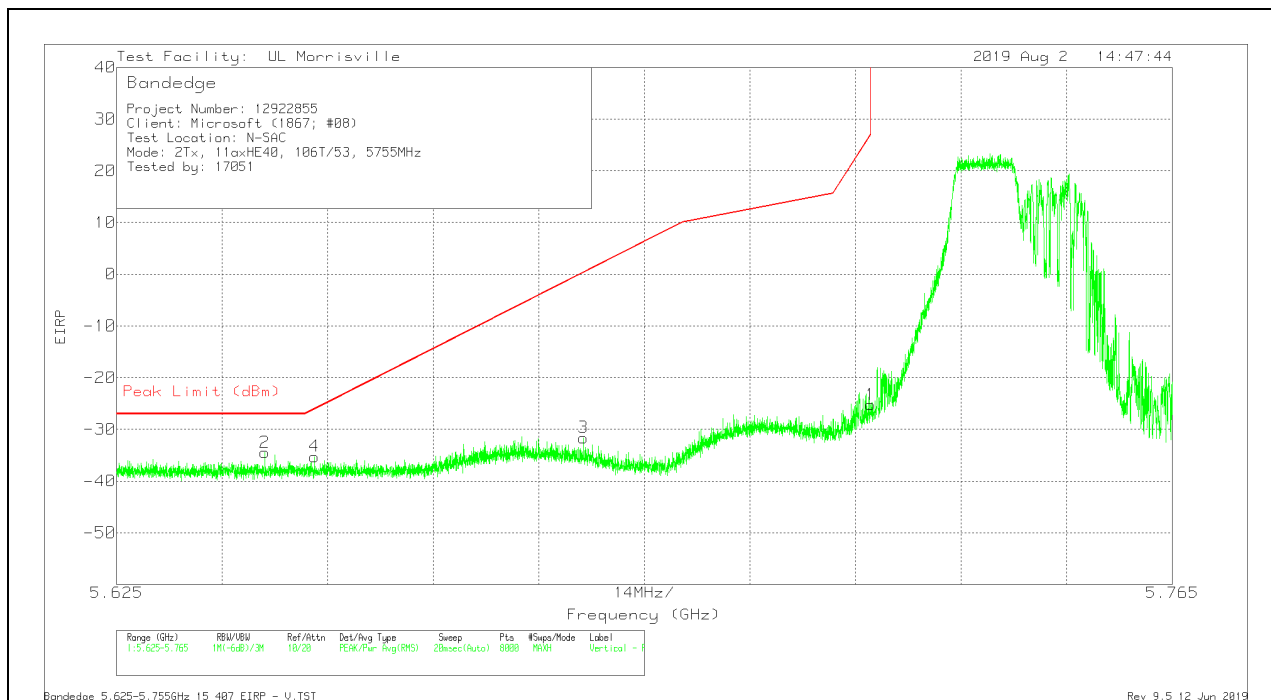
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63855	-58.86	Pk	34.6	-23	11.8	-35.46	-27	-8.46	252	385	H
4	5.66291	-57.93	Pk	34.6	-23	11.8	-34.53	-17.45	-17.08	252	385	H
3	5.71143	-53.63	Pk	34.6	-22.9	11.8	-30.13	13.2	-43.33	252	385	H
1	5.72499	-51.42	Pk	34.6	-22.9	11.8	-27.92	26.97	-54.89	252	385	H

Pk - Peak detector

VERTICAL RESULT



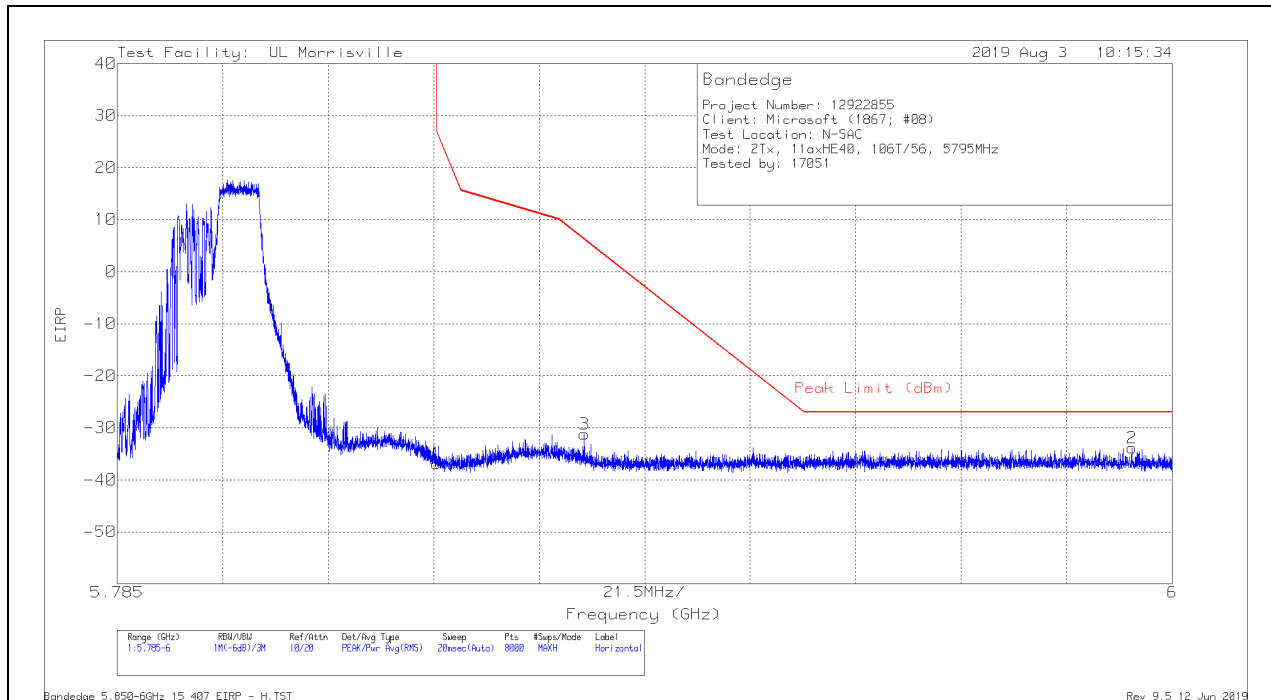
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64467	-57.94	Pk	34.6	-22.9	11.8	-34.44	-27	-7.44	280	231	V
4	5.65122	-58.75	Pk	34.6	-22.9	11.8	-35.25	-26.1	-9.15	280	231	V
3	5.68689	-55.1	Pk	34.6	-22.9	11.8	-31.6	.3	-31.9	280	231	V
1	5.72499	-48.75	Pk	34.6	-22.9	11.8	-25.25	26.97	-52.22	280	231	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 106-Tones, RU Index 56

BANDEDGE (HIGH CHANNEL)

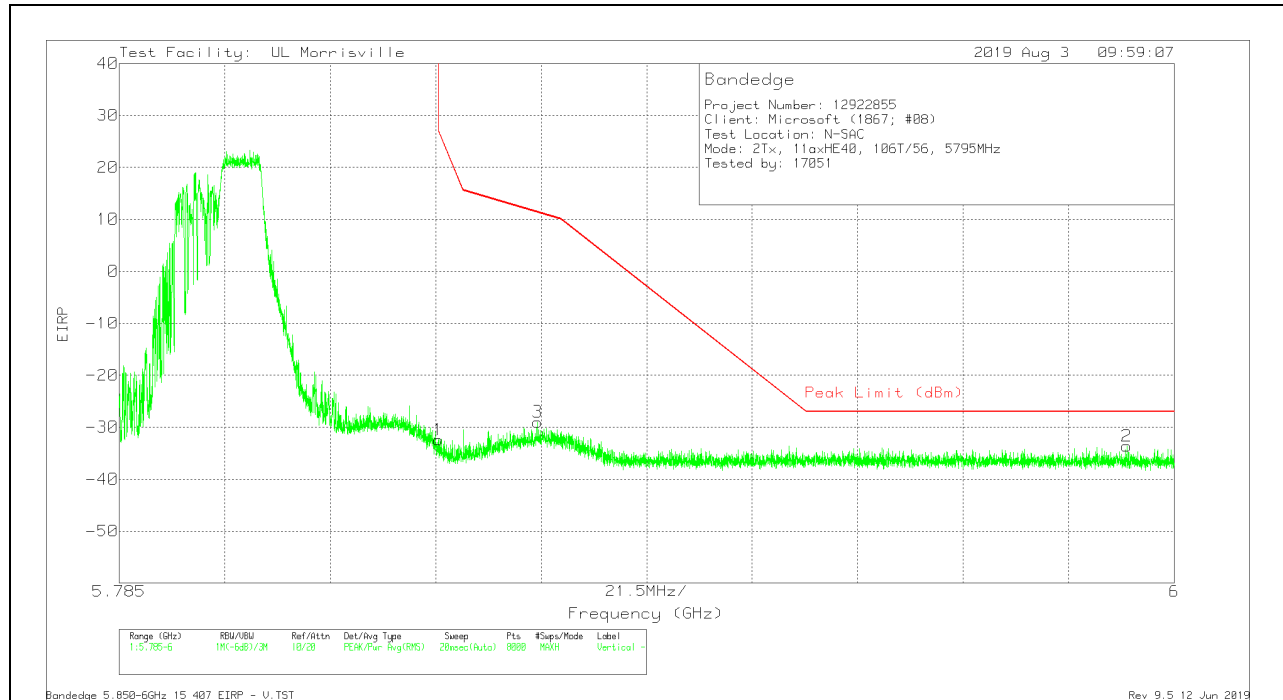
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-61.09	Pk	34.8	-22.4	11.8	-36.89	26.96	-63.85	0	391	H
3	5.8802	-55.6	Pk	34.8	-22.2	11.8	-31.2	6.15	-37.35	0	391	H
2	5.99175	-58.8	Pk	35	-21.9	11.8	-33.9	-27	-6.9	0	391	H

Pk - Peak detector

VERTICAL RESULT



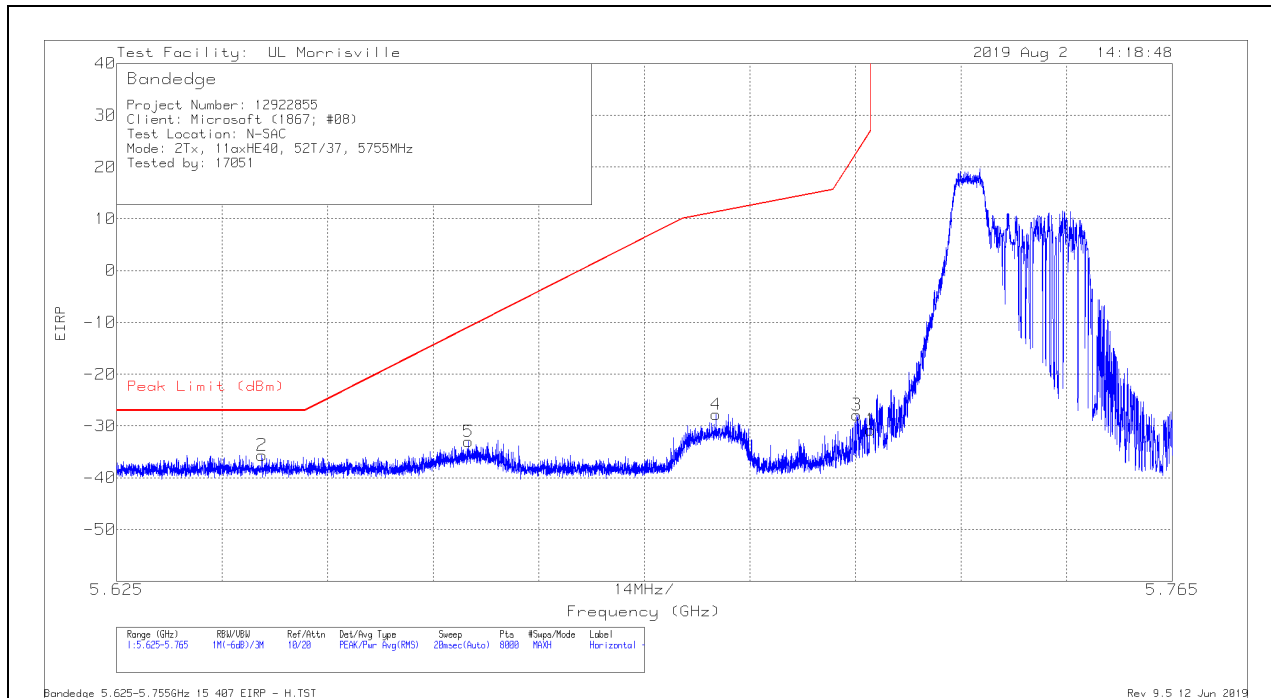
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-56.61	Pk	34.8	-22.4	11.8	-32.41	26.96	-59.37	288	245	V
3	5.87034	-53.3	Pk	34.8	-22.3	11.8	-29	11.31	-40.31	288	245	V
2	5.99032	-58.62	Pk	35	-21.8	11.8	-33.62	-27	-6.62	288	245	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 52-Tones, RU Index 37

BANDEDGE (LOW CHANNEL)

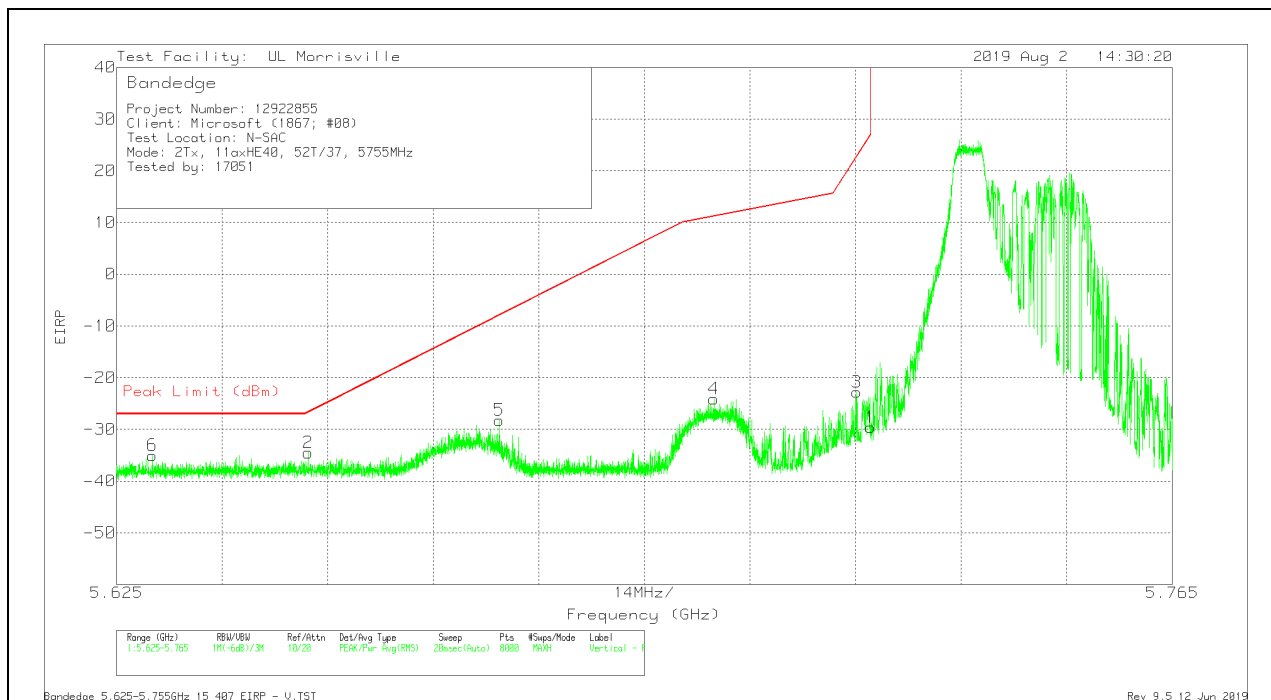
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64427	-59.13	Pk	34.6	-22.9	11.8	-35.63	-27	-8.63	252	389	H
5	5.67166	-56.39	Pk	34.6	-23	11.8	-32.99	-10.97	-22.02	252	389	H
4	5.70449	-51.38	Pk	34.6	-22.8	11.8	-27.78	11.26	-39.04	252	389	H
3	5.72313	-51.35	Pk	34.6	-22.9	11.8	-27.85	22.75	-50.6	252	389	H
1	5.72499	-54.26	Pk	34.6	-22.9	11.8	-30.76	26.97	-57.73	252	389	H

Pk - Peak detector

VERTICAL RESULT



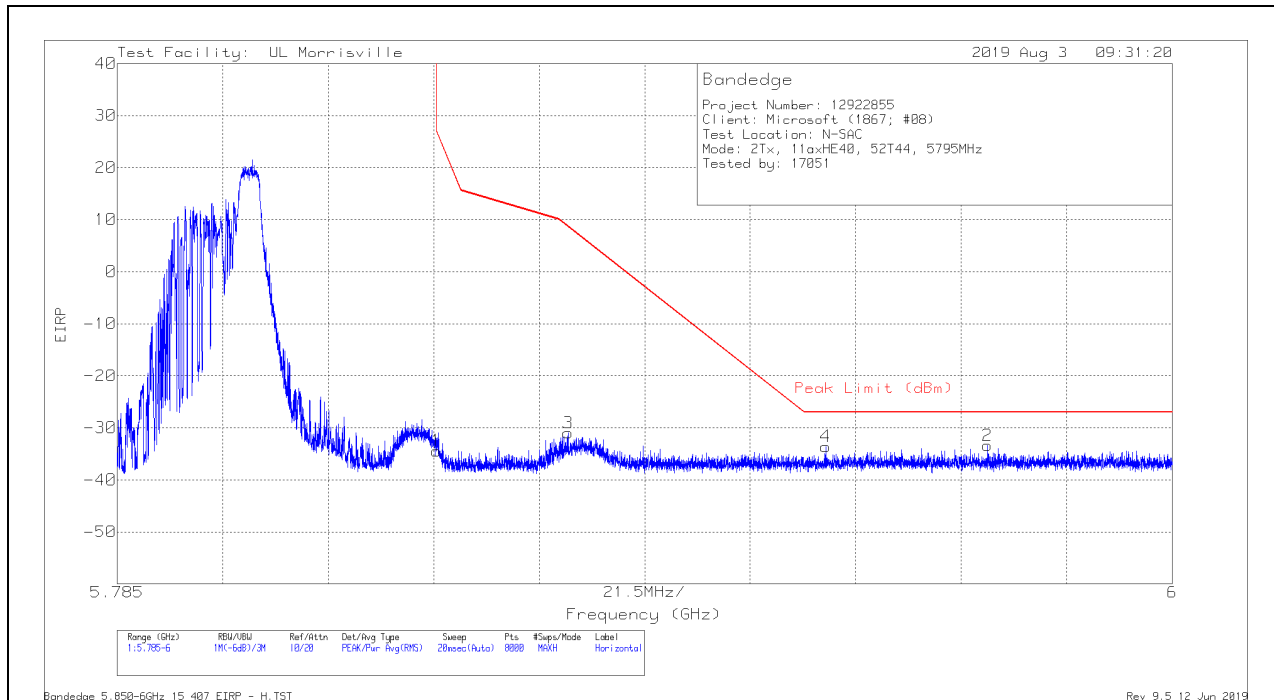
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	5.62976	-58.41	Pk	34.6	-23	11.8	-35.01	-27	-8.01	290	230	V
2	5.6504	-58	Pk	34.6	-22.9	11.8	-34.5	-26.71	-7.79	290	230	V
5	5.67574	-51.61	Pk	34.6	-23	11.8	-28.21	-7.95	-20.26	290	230	V
4	5.7042	-47.68	Pk	34.6	-22.8	11.8	-24.08	11.18	-35.26	290	230	V
3	5.72315	-46.27	Pk	34.6	-22.9	11.8	-22.77	22.78	-45.55	290	230	V
1	5.72499	-53.07	Pk	34.6	-22.9	11.8	-29.57	26.97	-56.54	290	230	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 52-Tones, RU Index 44

BANDEDGE (HIGH CHANNEL)

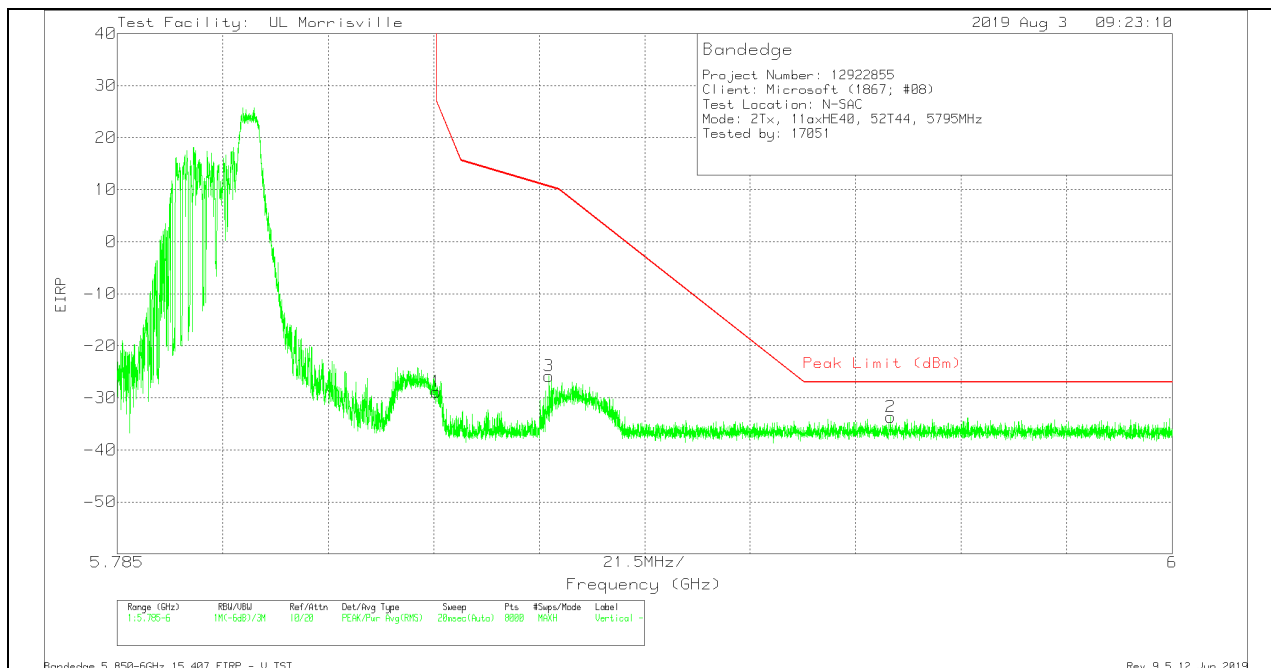
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-58.61	Pk	34.8	-22.4	11.8	-34.41	26.96	-61.37	0	374	H
3	5.8769	-55.29	Pk	34.8	-22.3	11.8	-30.99	8.6	-39.59	0	374	H
4	5.92939	-58.29	Pk	34.9	-22	11.8	-33.59	-27	-6.59	0	374	H
2	5.96234	-58.31	Pk	35	-21.9	11.8	-33.41	-27	-6.41	0	374	H

Pk - Peak detector

VERTICAL RESULT



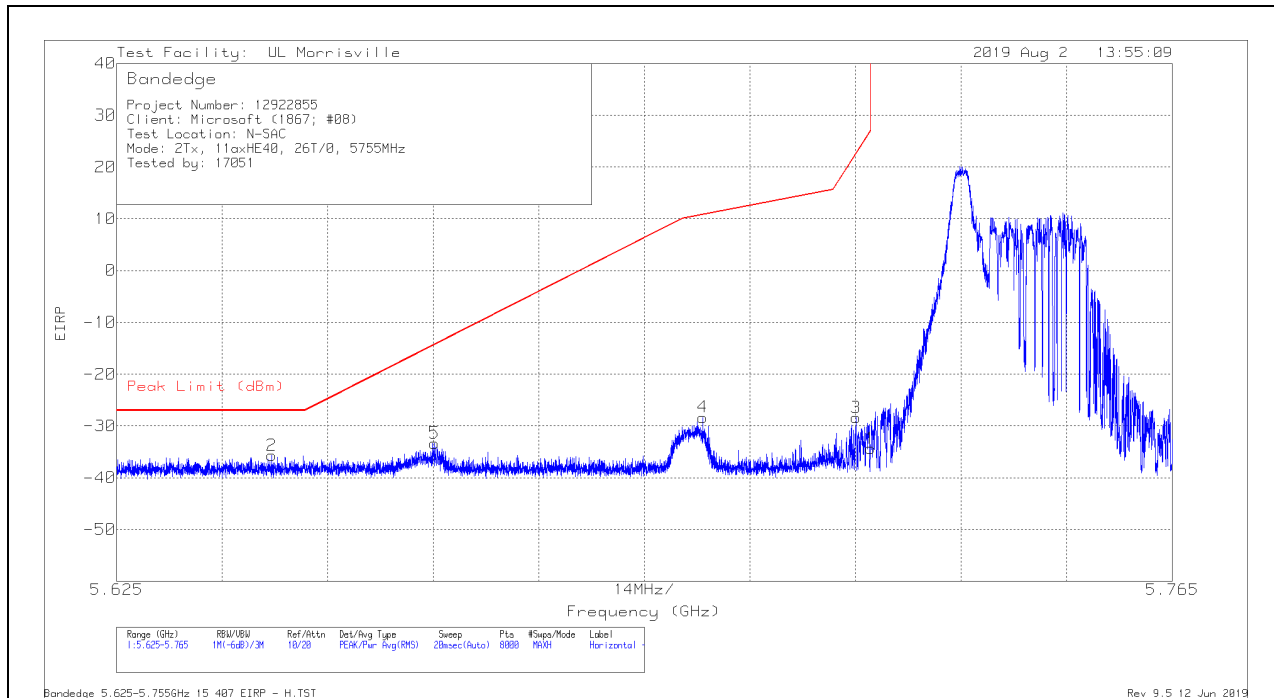
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-53.04	Pk	34.8	-22.4	11.8	-28.84	26.96	-55.8	15	211	V
3	5.873	-50.11	Pk	34.8	-22.3	11.8	-25.81	10.56	-36.37	15	211	V
2	5.94259	-58.36	Pk	34.9	-22	11.8	-33.66	-27	-6.66	15	211	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 0

BANDEDGE (LOW CHANNEL)

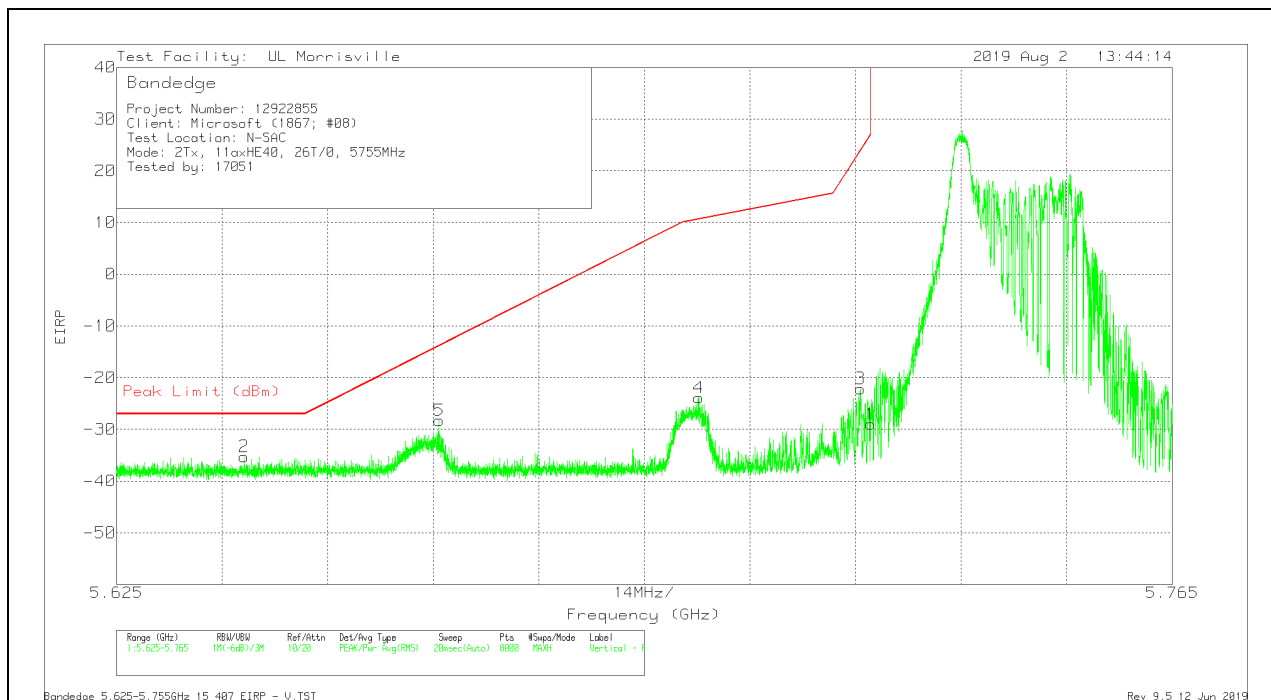
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64555	-59.19	Pk	34.6	-22.9	11.8	-35.69	-27	-8.69	251	389	H
5	5.66713	-56.72	Pk	34.6	-23	11.8	-33.32	-14.33	-18.99	251	389	H
4	5.70273	-51.82	Pk	34.6	-22.9	11.8	-28.32	10.76	-39.08	251	389	H
3	5.72308	-51.86	Pk	34.6	-22.9	11.8	-28.36	22.62	-50.98	251	389	H
1	5.72499	-57.81	Pk	34.6	-22.9	11.8	-34.31	26.97	-61.28	251	389	H

Pk - Peak detector

VERTICAL RESULT



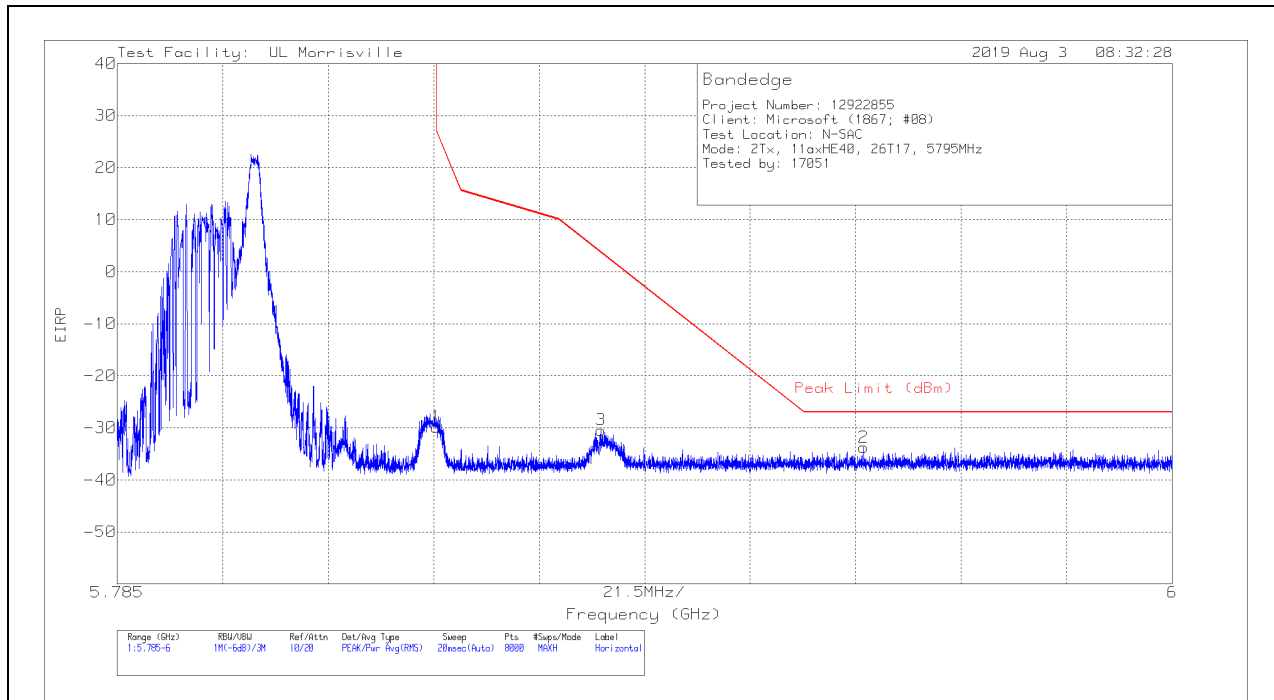
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64192	-58.67	Pk	34.6	-23	11.8	-35.27	-27	-8.27	290	227	V
5	5.66778	-51.69	Pk	34.6	-23	11.8	-28.29	-13.85	-14.44	290	227	V
4	5.7022	-47.39	Pk	34.6	-22.9	11.8	-23.89	10.62	-34.51	290	227	V
3	5.72362	-45.63	Pk	34.6	-22.9	11.8	-22.13	23.86	-45.99	290	227	V
1	5.72499	-52.49	Pk	34.6	-22.9	11.8	-28.99	26.97	-55.96	290	227	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 17

BANDEDGE (HIGH CHANNEL)

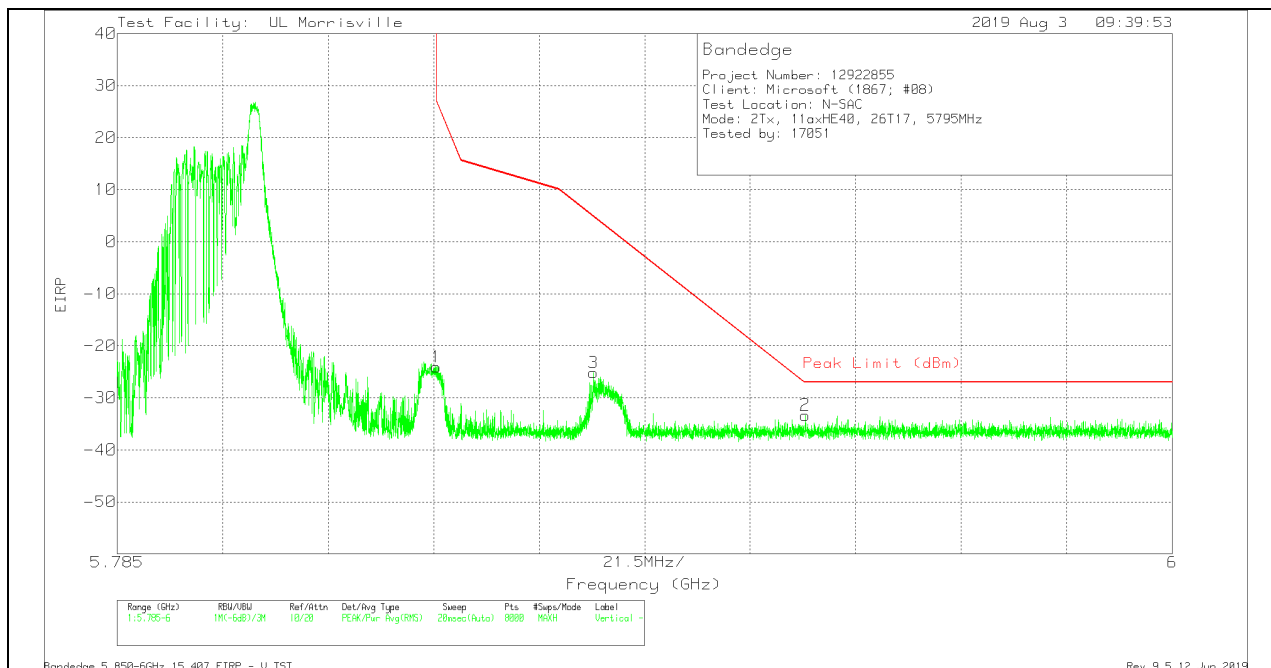
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-54.04	Pk	34.8	-22.4	11.8	-29.84	26.96	-56.8	0	374	H
3	5.88362	-54.92	Pk	34.9	-22.2	11.8	-30.42	3.62	-34.04	0	374	H
2	5.93713	-58.47	Pk	34.9	-22	11.8	-33.77	-27	-6.77	0	374	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-48.3	Pk	34.8	-22.4	11.8	-24.1	26.96	-51.06	15	212	V
3	5.88211	-49.67	Pk	34.9	-22.2	11.8	-25.17	4.74	-29.91	15	212	V
2	5.92525	-58.04	Pk	34.9	-22	11.8	-33.34	-27	-6.34	15	212	V

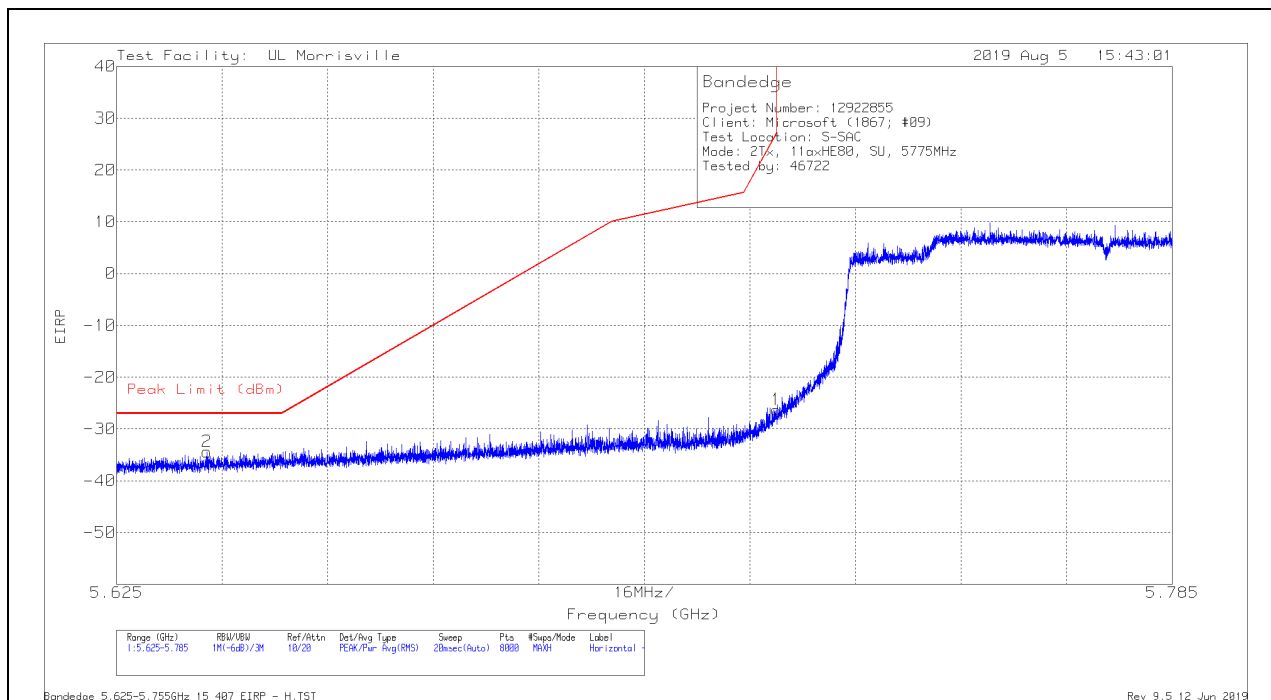
Pk - Peak detector

9.1.3. TX ABOVE 1 GHz 802.11ax HE80 MODE IN THE 5.8 GHz BAND

2TX Antenna 1 + Antenna 2 OFDMA MODE – SU MODE

BANDEDGE (CHANNEL 155 LOW EDGE)

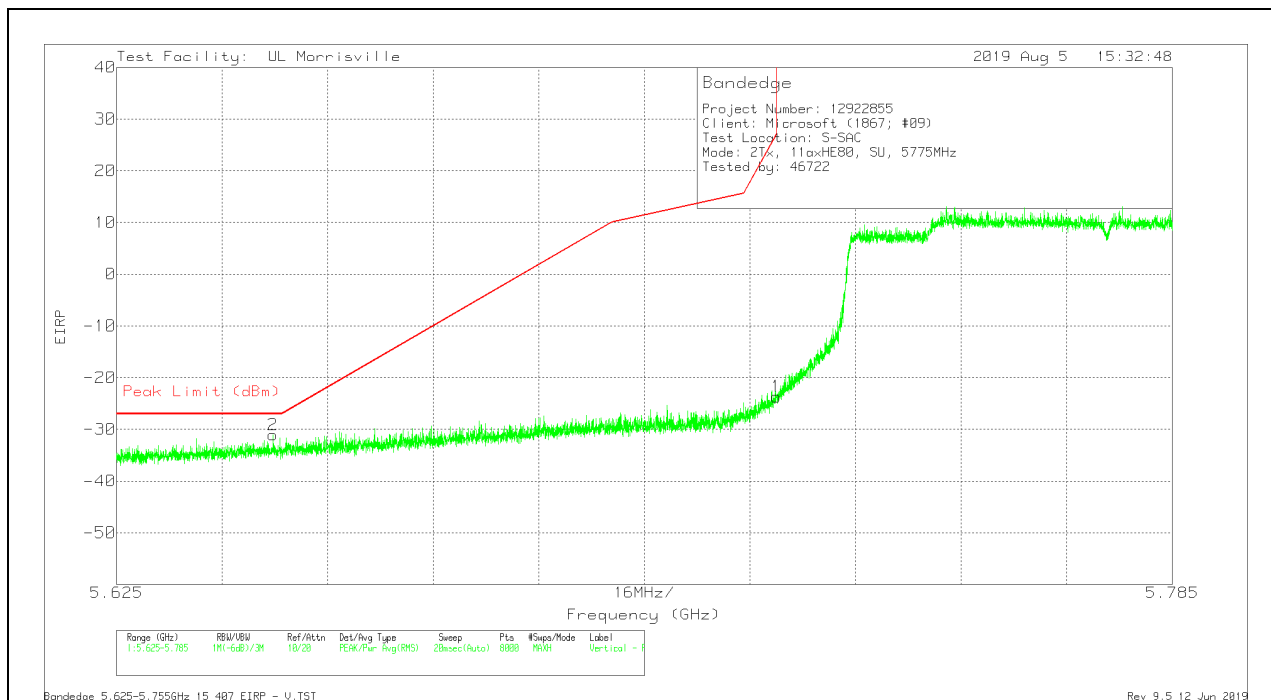
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63872	-57.59	Pk	34.7	-23.3	11.8	-34.39	-27	-7.39	21	386	H
1	5.725	-49.48	Pk	34.7	-23.3	11.8	-26.28	26.99	-53.27	21	386	H

Pk - Peak detector

VERTICAL RESULT

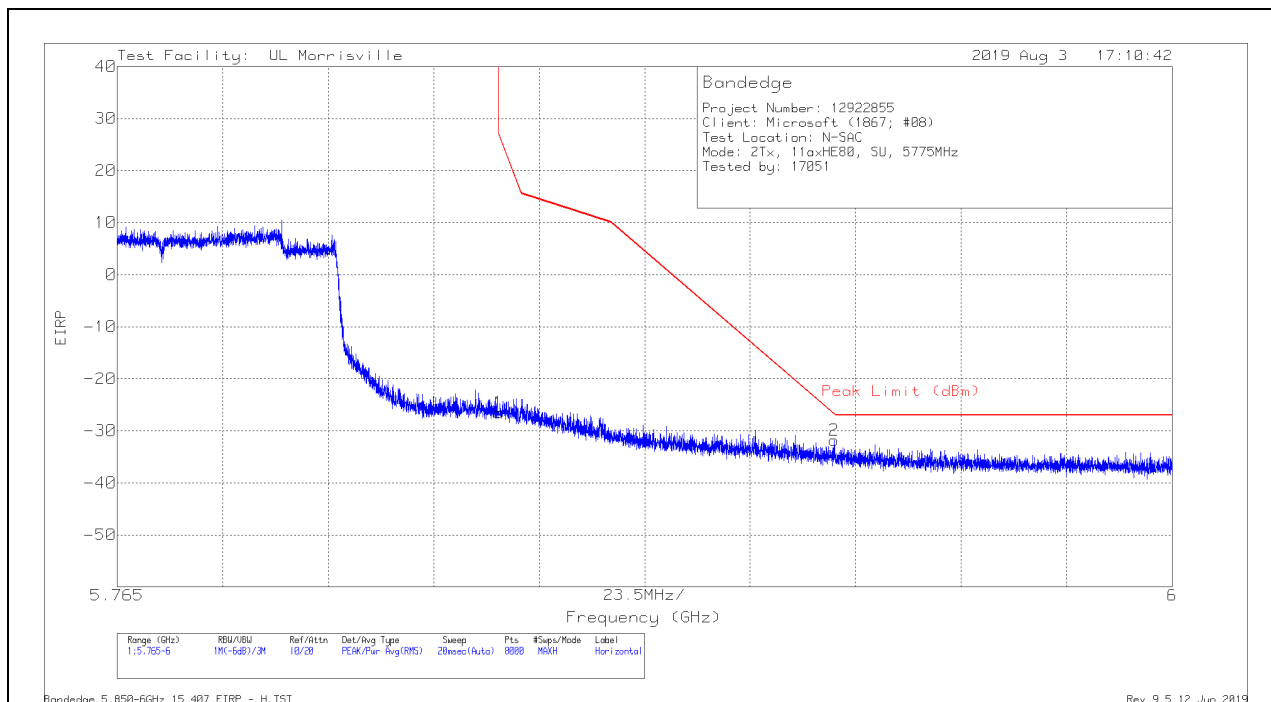


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64872	-54.33	Pk	34.7	-23.2	11.8	-31.03	-27	-4.03	43	217	V
1	5.725	-46.88	Pk	34.7	-23.3	11.8	-23.68	26.99	-50.67	43	217	V

Pk - Peak detector

BANDEDGE (CHANNEL 155 HIGH EDGE)

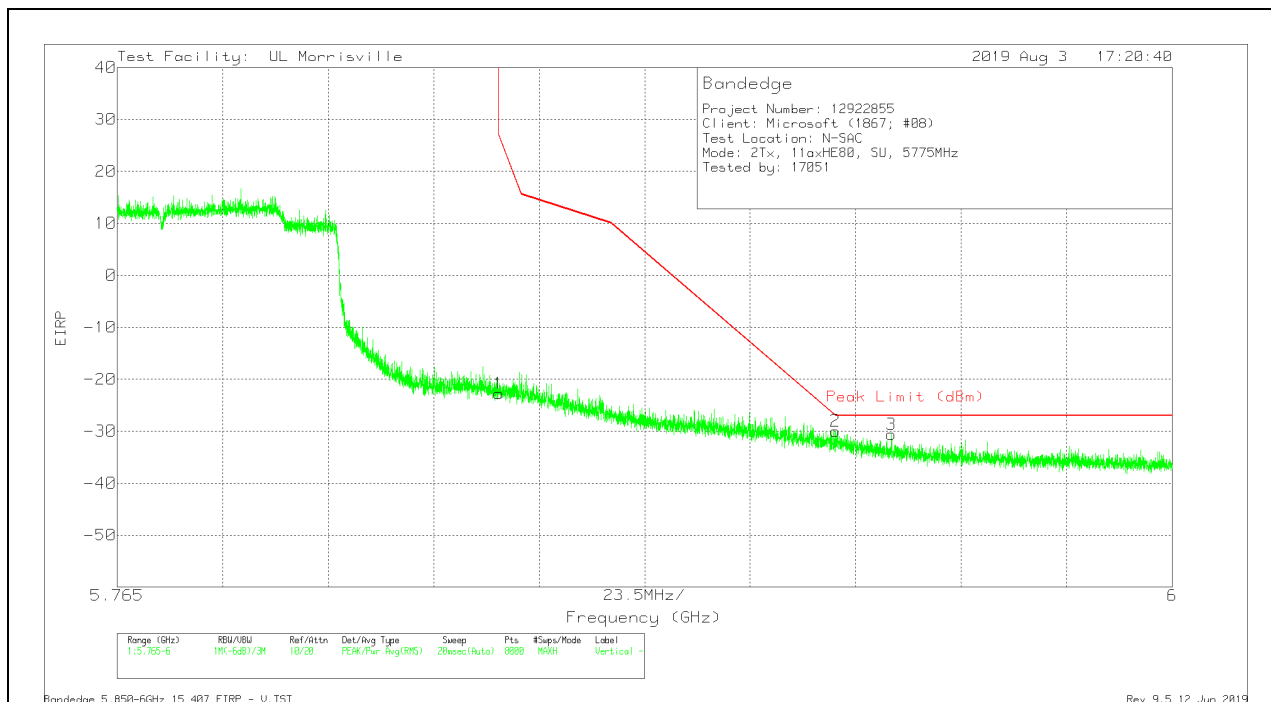
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-50.72	Pk	34.8	-22.4	11.8	-26.52	26.95	-53.47	1	397	H
2	5.92473	-56.54	Pk	34.9	-22	11.8	-31.84	-26.8	-5.04	1	397	H

Pk - Peak detector

VERTICAL RESULT



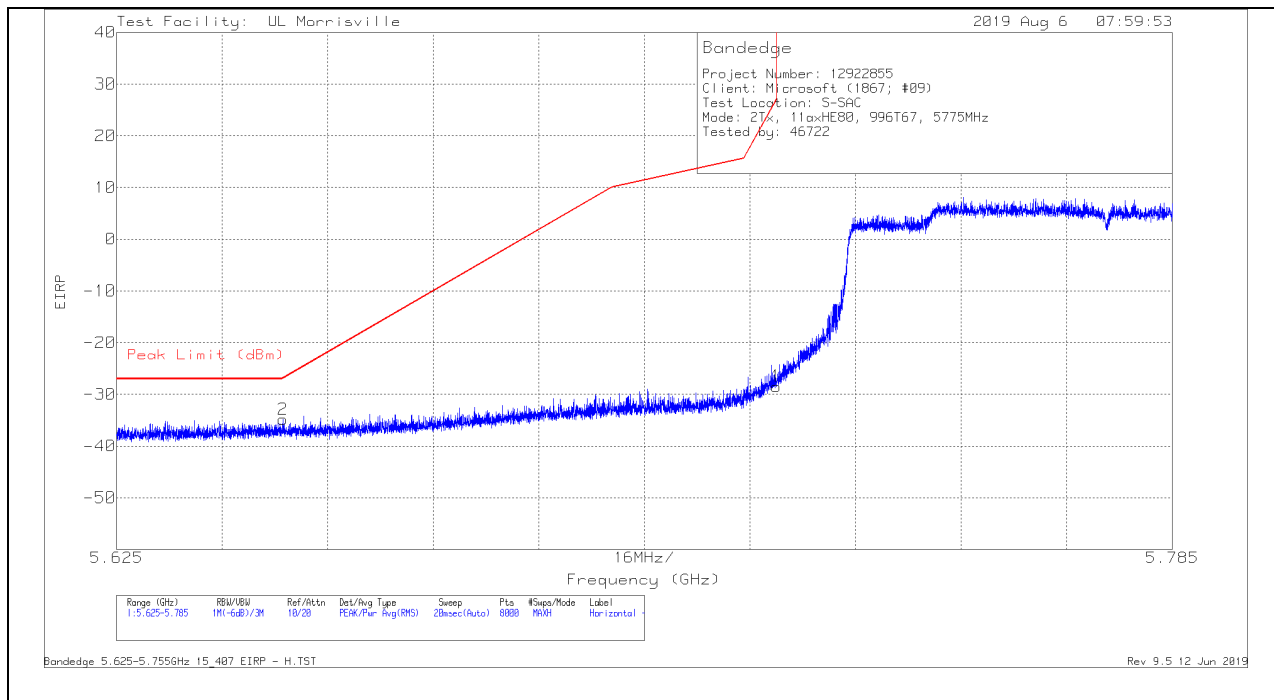
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-46.94	Pk	34.8	-22.4	11.8	-22.74	26.95	-49.69	287	238	V
2	5.92497	-54.66	Pk	34.9	-22	11.8	-29.96	-26.98	-2.98	287	238	V
3	5.93748	-55.33	Pk	34.9	-22	11.8	-30.63	-27	-3.63	287	238	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 996-Tones, RU Index 67

BANDEDGE (CHANNEL 155 LOW EDGE)

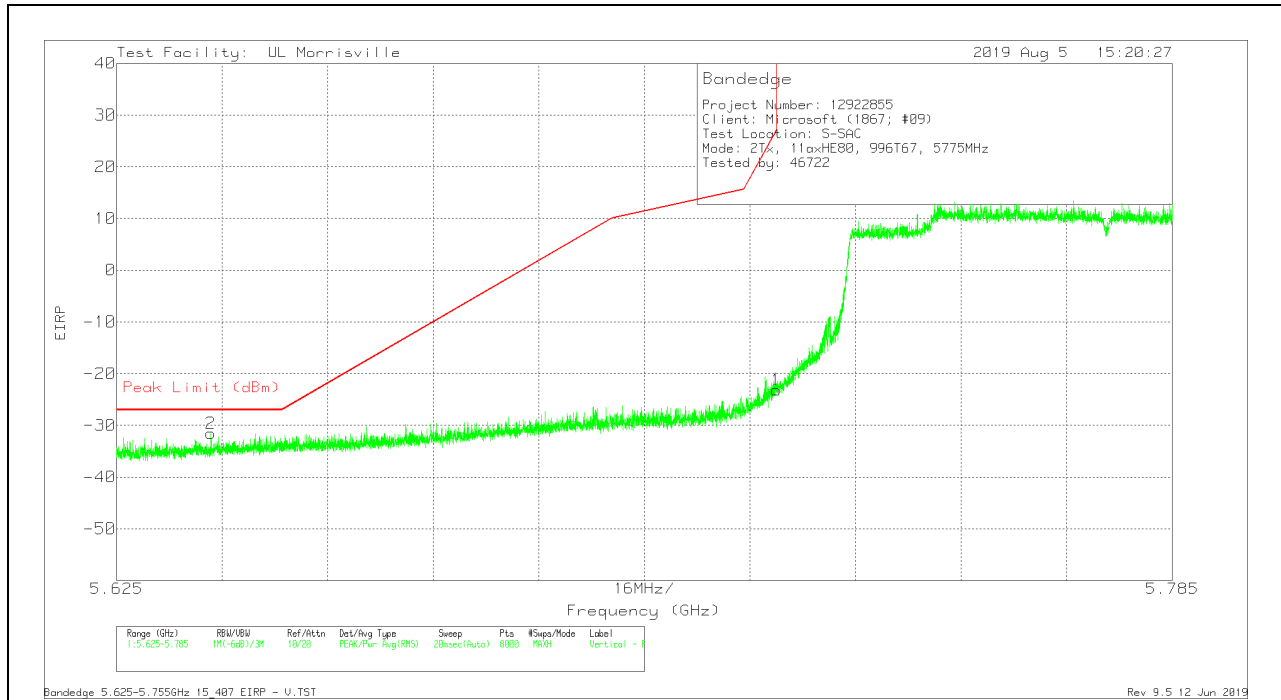
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.65018	-58.13	Pk	34.7	-23.2	11.8	-34.83	-26.86	-7.97	327	132	H
1	5.725	-51.65	Pk	34.7	-23.3	11.8	-28.45	26.99	-55.44	327	132	H

Pk - Peak detector

VERTICAL RESULT

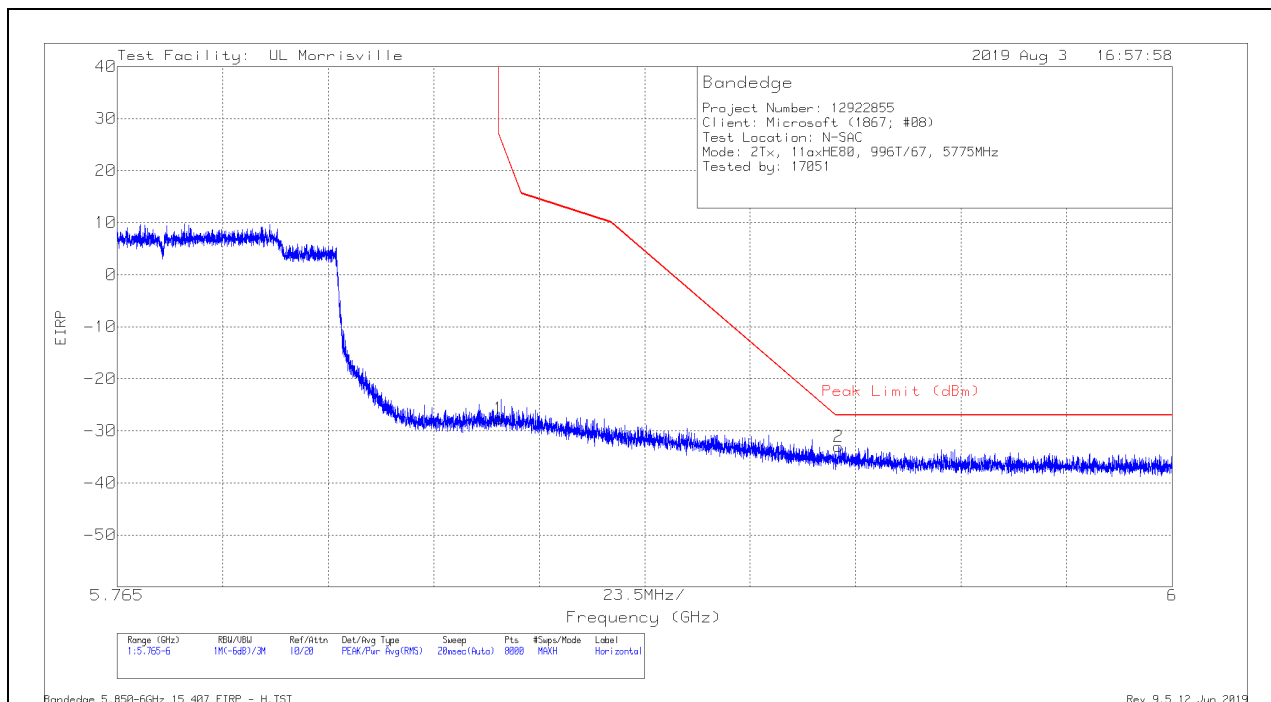


Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63924	-54.75	Pk	34.7	-23.3	11.8	-31.55	-27	-4.55	17	259	V
1	5.725	-46.32	Pk	34.7	-23.3	11.8	-23.12	26.99	-50.11	17	259	V

Pk - Peak detector

BANDEDGE (CHANNEL 155 HIGH EDGE)

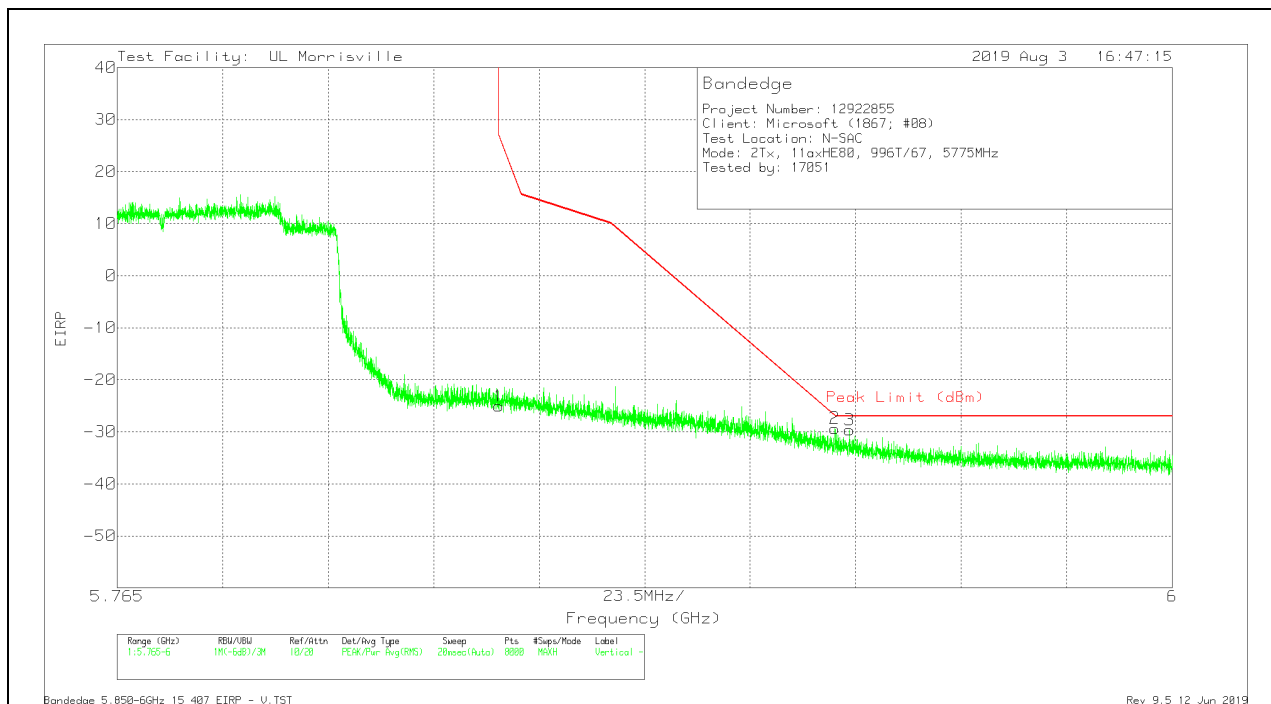
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-51.87	Pk	34.8	-22.4	11.8	-27.67	26.95	-54.62	0	373	H
2	5.92564	-57.72	Pk	34.9	-22	11.8	-33.02	-27	-6.02	0	373	H

Pk - Peak detector

VERTICAL RESULT



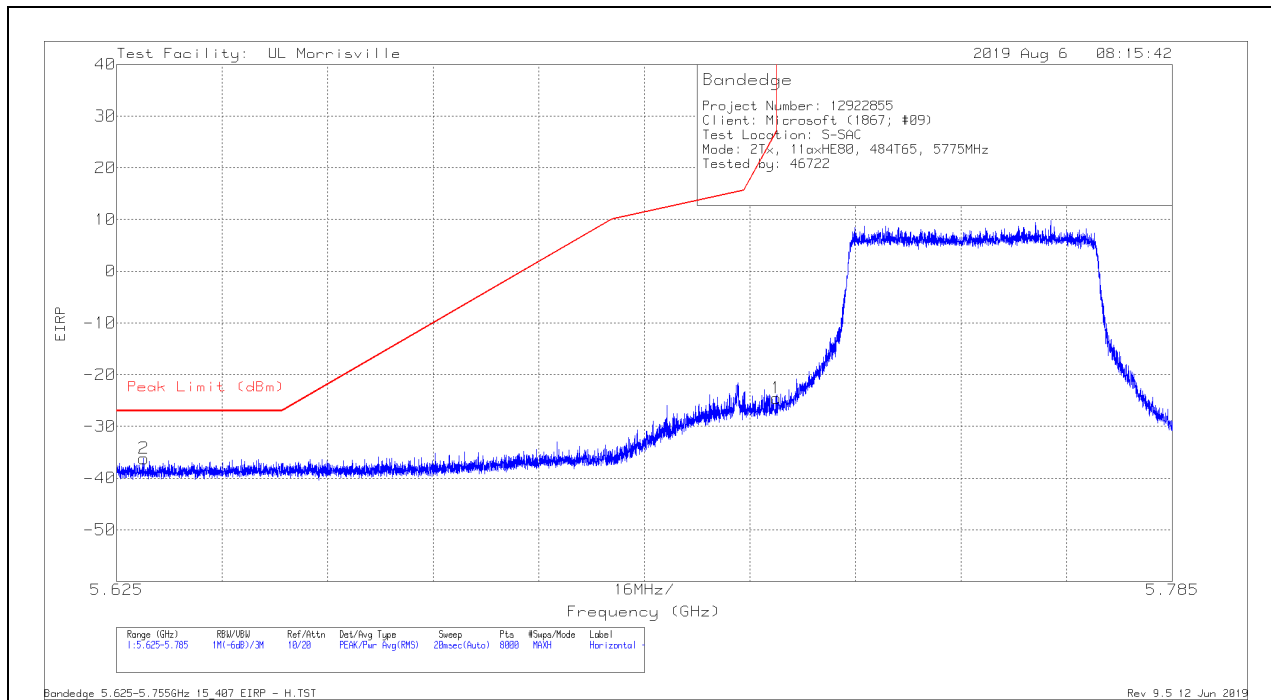
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-49.27	Pk	34.8	-22.4	11.8	-25.07	26.95	-52.02	287	237	V
2	5.92482	-54.05	Pk	34.9	-22	11.8	-29.35	-26.87	-2.48	287	237	V
3	5.92811	-54.35	Pk	34.9	-22	11.8	-29.65	-27	-2.65	287	237	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 484-Tones, RU Index 65

BANDEDGE (CHANNEL 155 LOW EDGE)

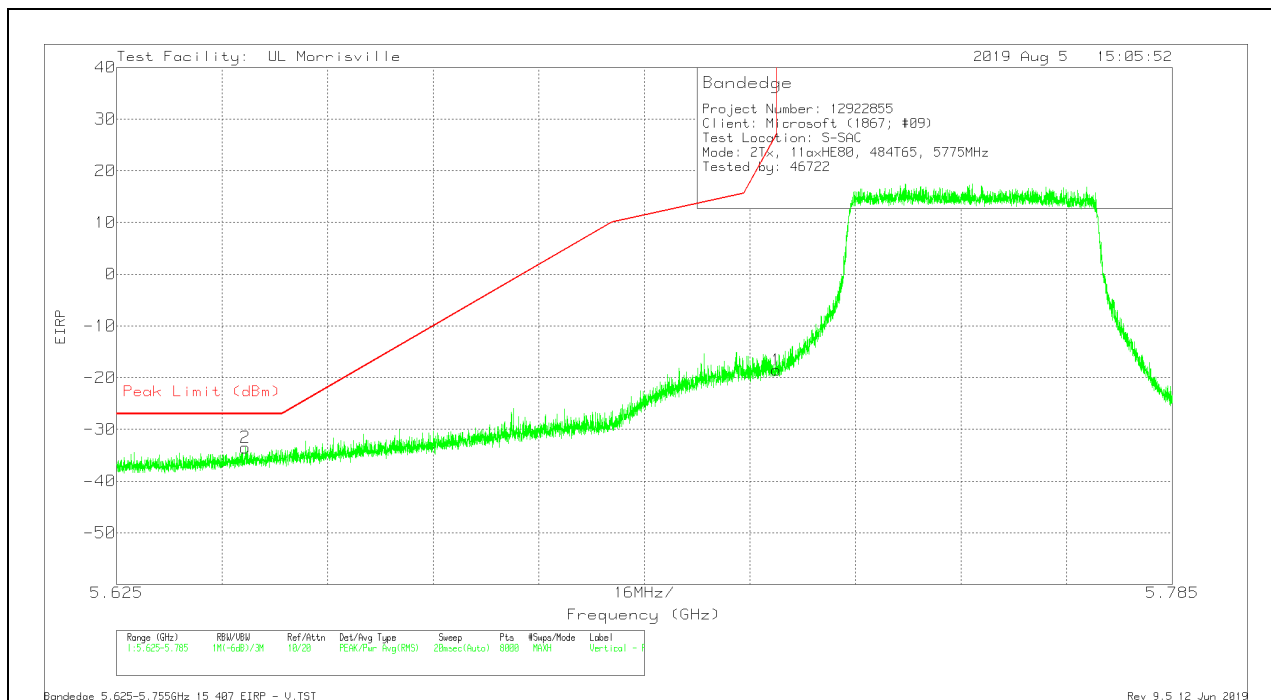
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62912	-59.31	Pk	34.7	-23.4	11.8	-36.21	-27	-9.21	304	139	H
1	5.725	-47.74	Pk	34.7	-23.3	11.8	-24.54	26.99	-51.53	304	139	H

Pk - Peak detector

VERTICAL RESULT



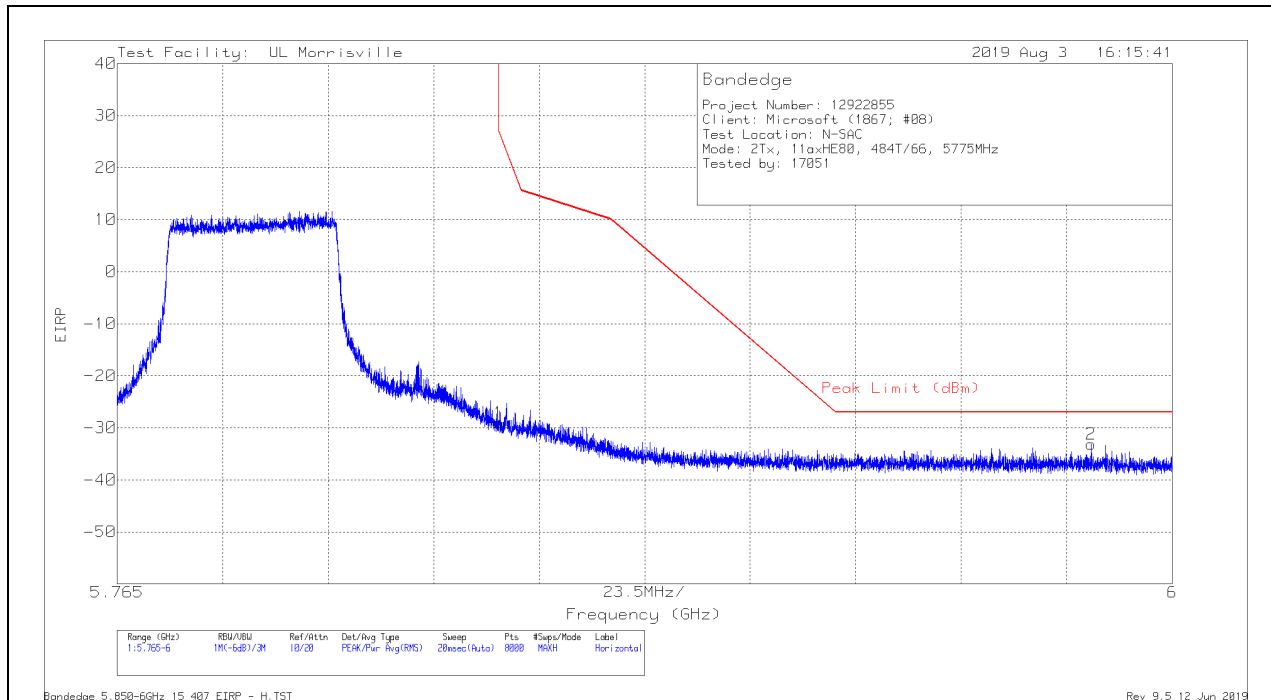
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64448	-56.83	Pk	34.7	-23.2	11.8	-33.53	-27	-6.53	90	223	V
1	5.725	-41.71	Pk	34.7	-23.3	11.8	-18.51	26.99	-45.5	90	223	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 484-Tones, RU Index 66

BANDEDGE (CHANNEL 155 HIGH EDGE)

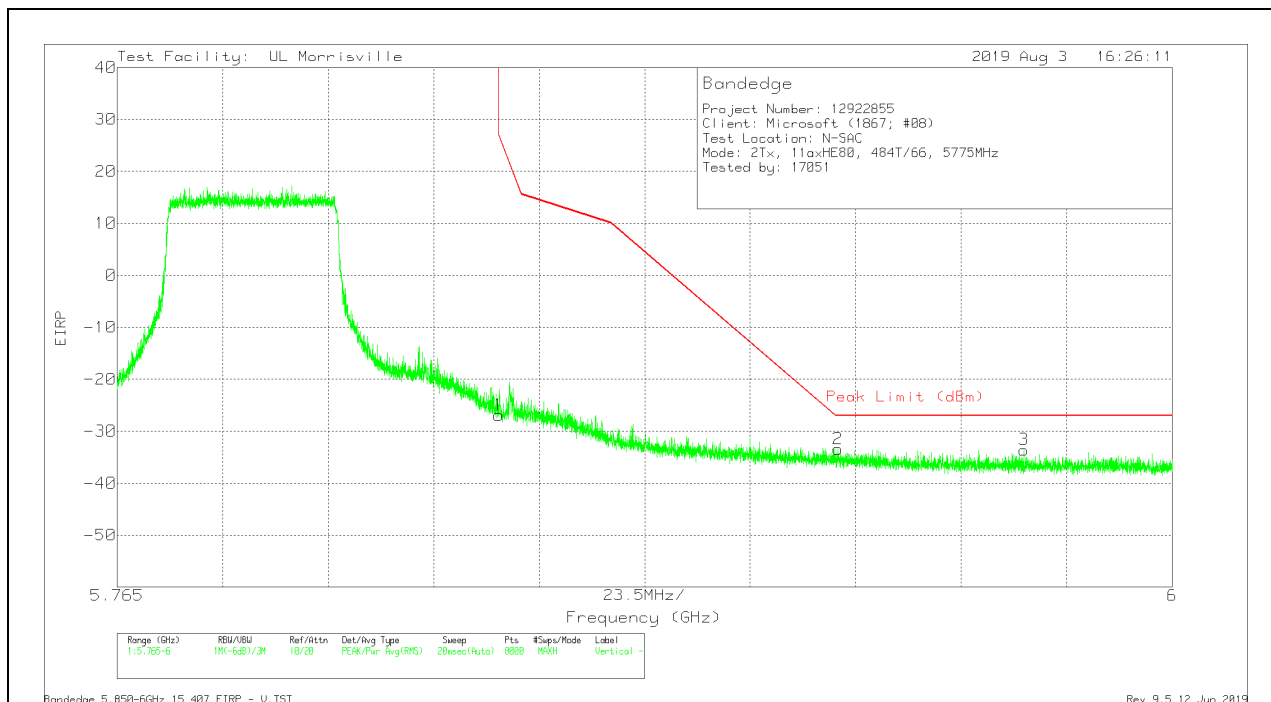
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-53.24	Pk	34.8	-22.4	11.8	-29.04	26.95	-55.99	1	395	H
2	5.98194	-58.15	Pk	35	-21.8	11.8	-33.15	-27	-6.15	1	395	H

Pk - Peak detector

VERTICAL RESULT



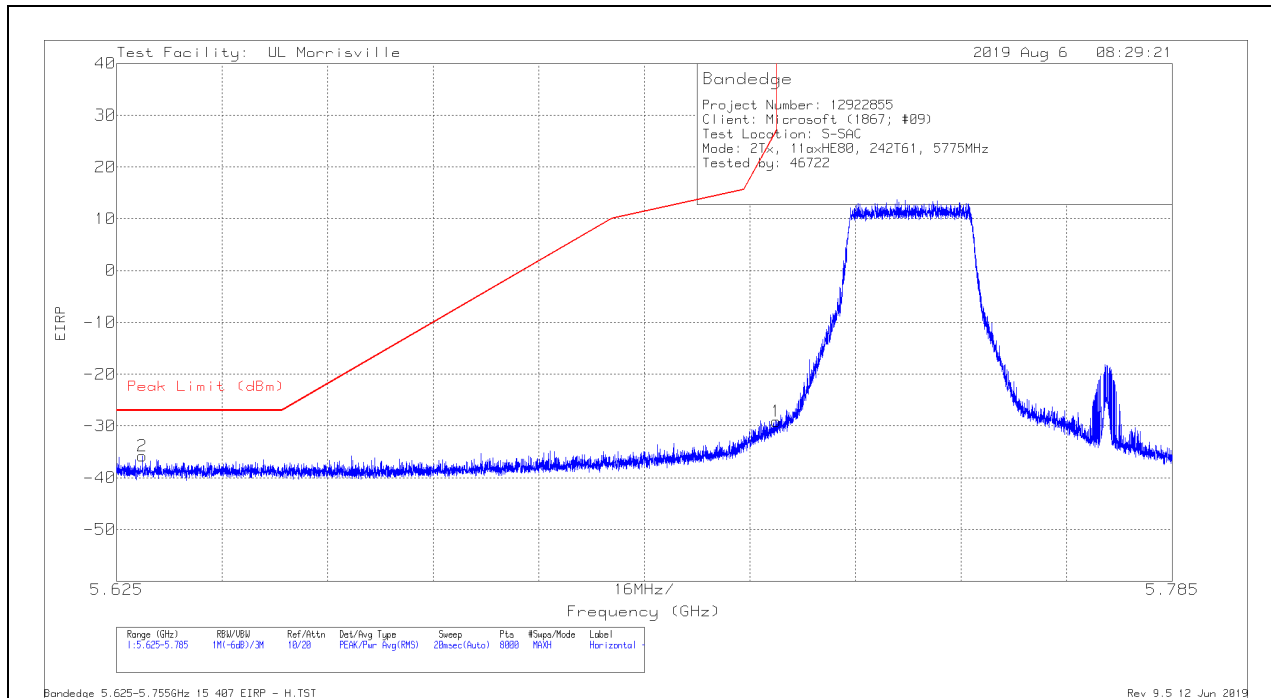
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-51.1	Pk	34.8	-22.4	11.8	-26.9	26.95	-53.85	287	250	V
2	5.92559	-58.12	Pk	34.9	-22	11.8	-33.42	-27	-6.42	287	250	V
3	5.96695	-58.47	Pk	35	-21.9	11.8	-33.57	-27	-6.57	287	250	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 242-Tones, RU Index 61

BANDEDGE (CHANNEL 155 LOW EDGE)

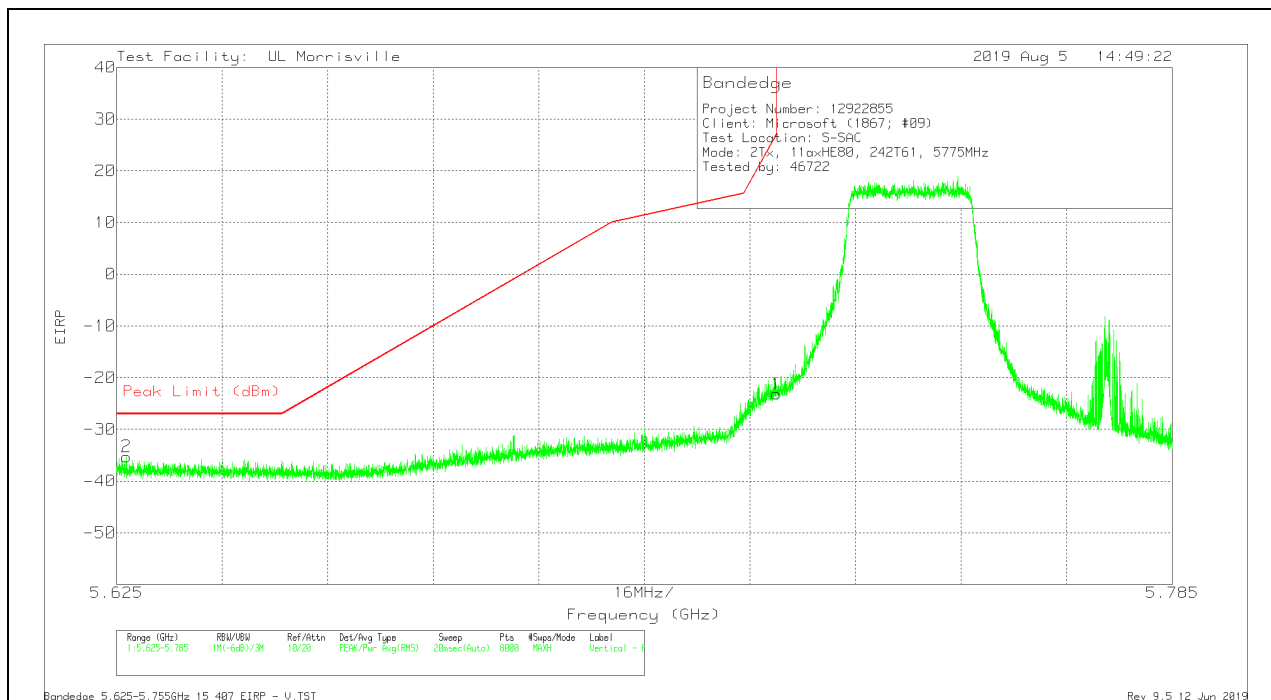
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.6289	-58.88	Pk	34.7	-23.4	11.8	-35.78	-27	-8.78	323	321	H
1	5.725	-52.34	Pk	34.7	-23.3	11.8	-29.14	26.99	-56.13	323	321	H

Pk - Peak detector

VERTICAL RESULT



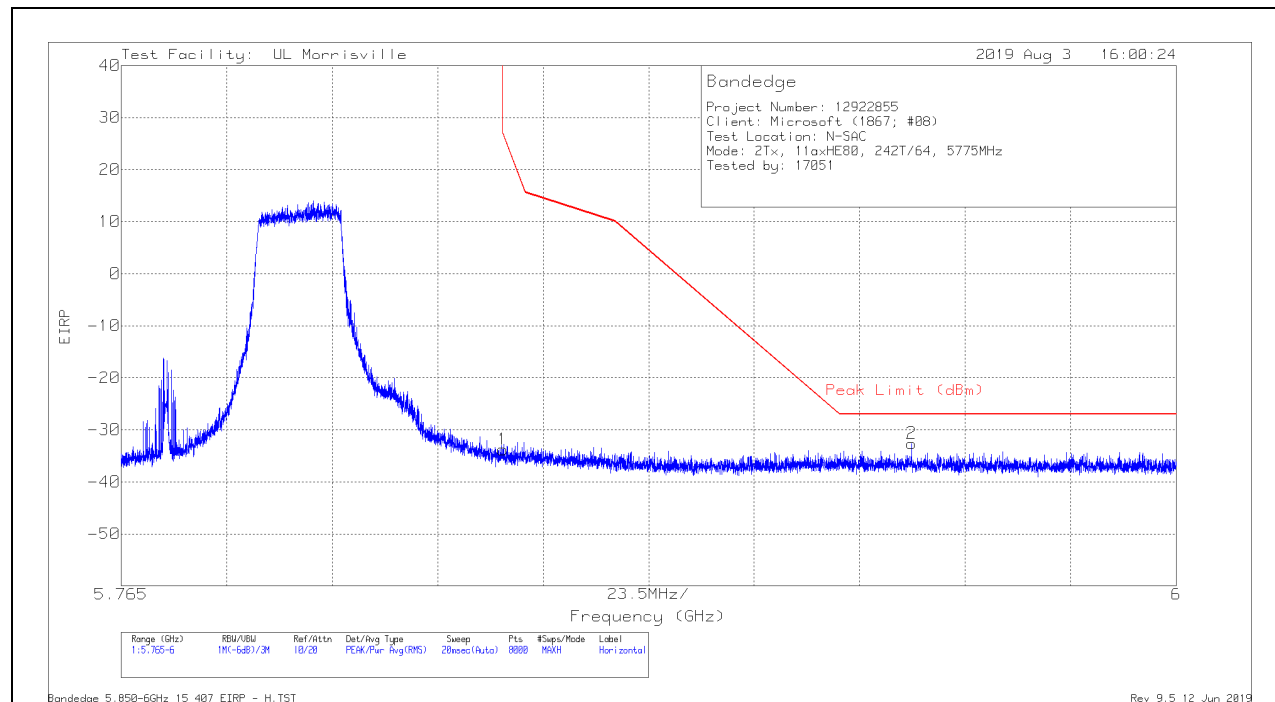
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62648	-58.36	Pk	34.7	-23.4	11.8	-35.26	-27	-8.26	70	219	V
1	5.725	-46.39	Pk	34.7	-23.3	11.8	-23.19	26.99	-50.18	70	219	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 242-Tones, RU Index 64

BANDEDGE (CHANNEL 155 HIGH EDGE)

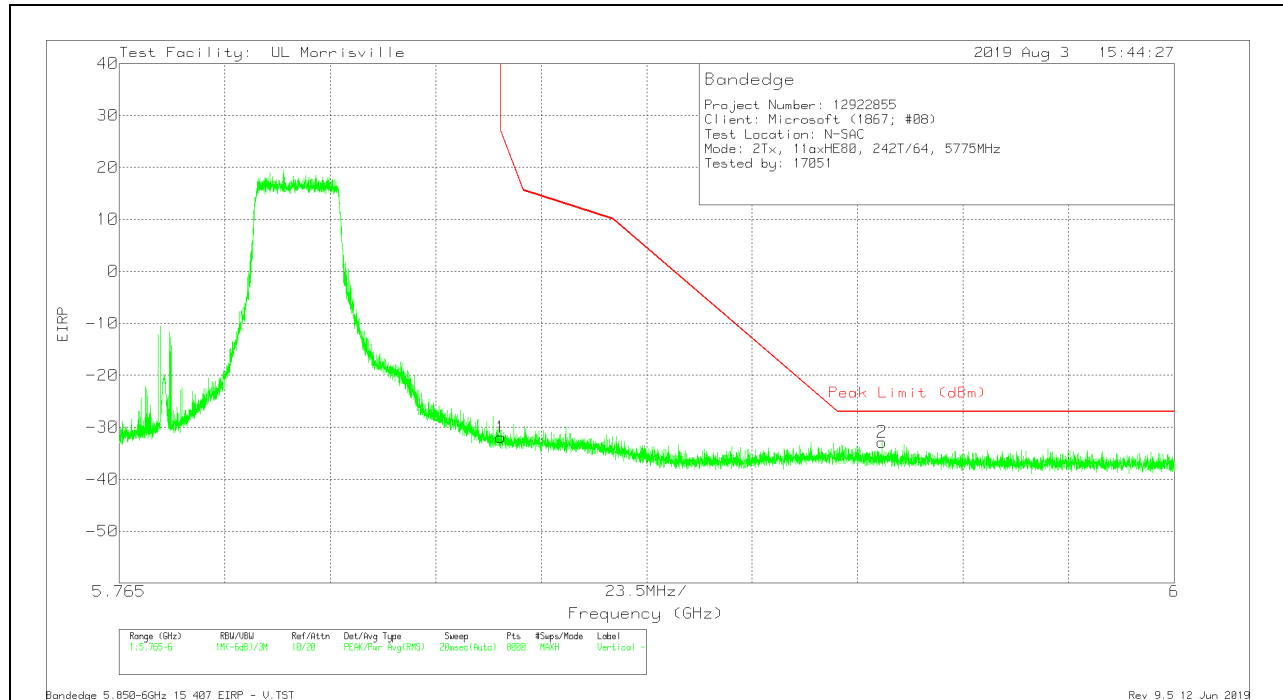
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-57.99	Pk	34.8	-22.4	11.8	-33.79	26.95	-60.74	0	397	H
2	5.9411	-57.31	Pk	34.9	-22	11.8	-32.61	-27	-5.61	0	397	H

Pk - Peak detector

VERTICAL RESULT



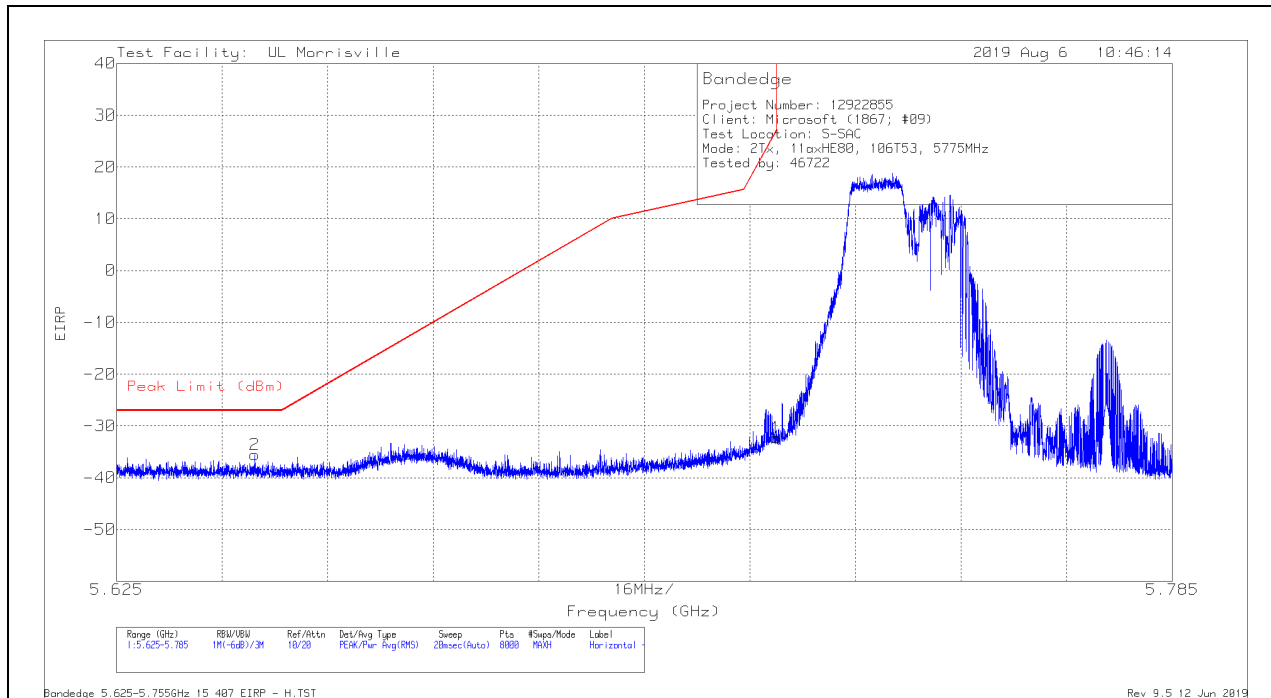
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-56.12	Pk	34.8	-22.4	11.8	-31.92	26.95	-58.87	288	242	V
2	5.9349	-57.58	Pk	34.9	-22	11.8	-32.88	-27	-5.88	288	242	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 106-Tones, RU Index 53

BANDEDGE (CHANNEL 155 LOW EDGE)

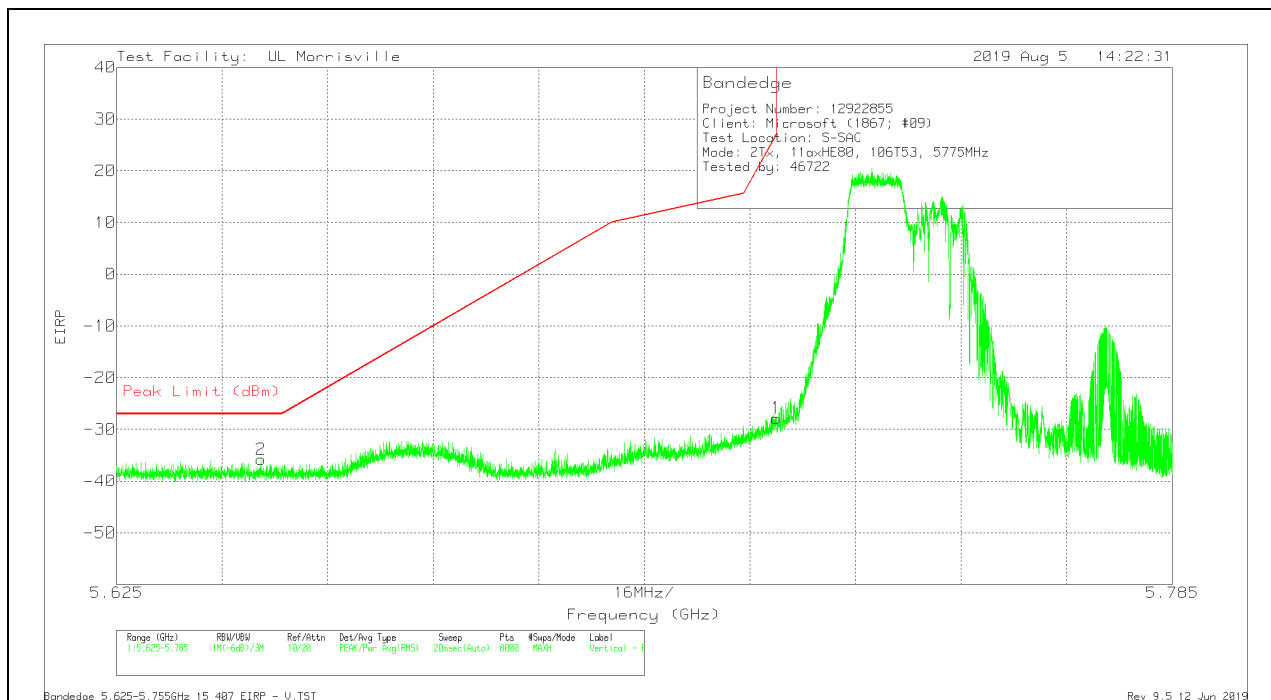
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64596	-58.87	Pk	34.7	-23.2	11.8	-35.57	-27	-8.57	78	386	H
1	5.725	-55.46	Pk	34.7	-23.3	11.8	-32.26	26.99	-59.25	78	386	H

Pk - Peak detector

VERTICAL RESULT



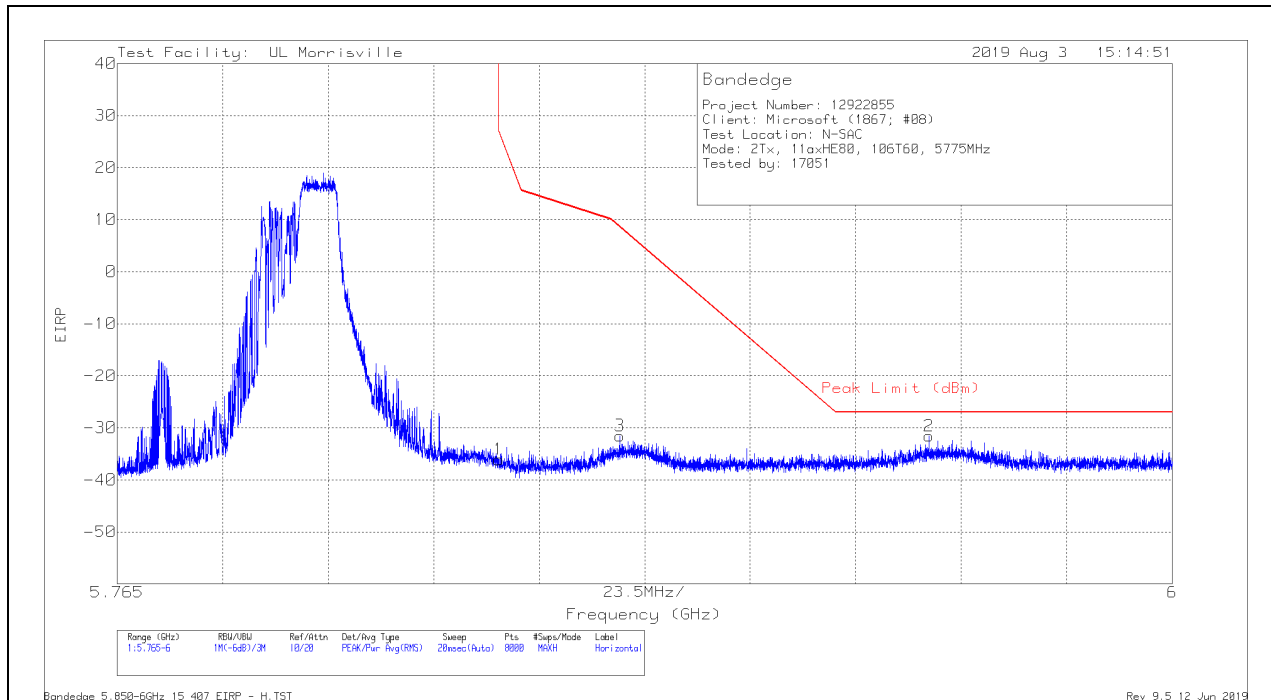
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64686	-59.07	Pk	34.7	-23.2	11.8	-35.77	-27	-8.77	90	158	V
1	5.725	-51.05	Pk	34.7	-23.3	11.8	-27.85	26.99	-54.84	90	158	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 106-Tones, RU Index 60

BANDEDGE (CHANNEL 155 HIGH EDGE)

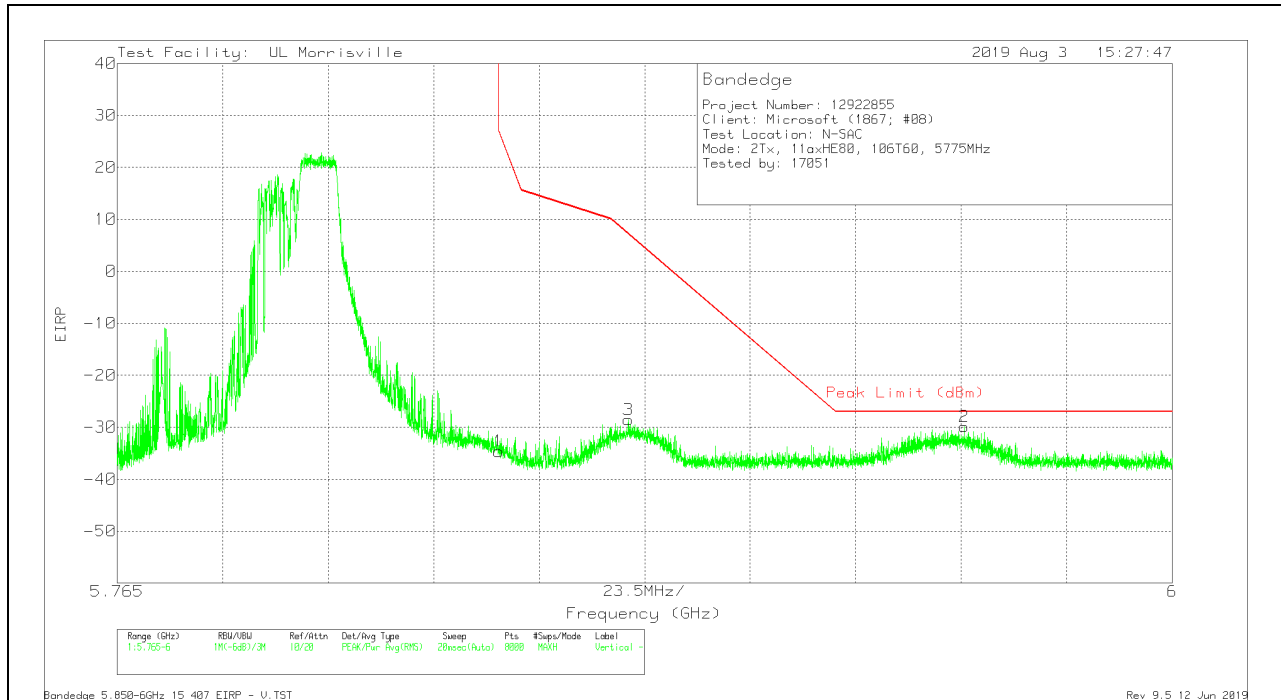
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-60.29	Pk	34.8	-22.4	11.8	-36.09	26.95	-63.04	0	401	H
3	5.87696	-55.84	Pk	34.8	-22.3	11.8	-31.54	8.55	-40.09	0	401	H
2	5.94583	-56.27	Pk	34.9	-22	11.8	-31.57	-27	-4.57	0	401	H

Pk - Peak detector

VERTICAL RESULT



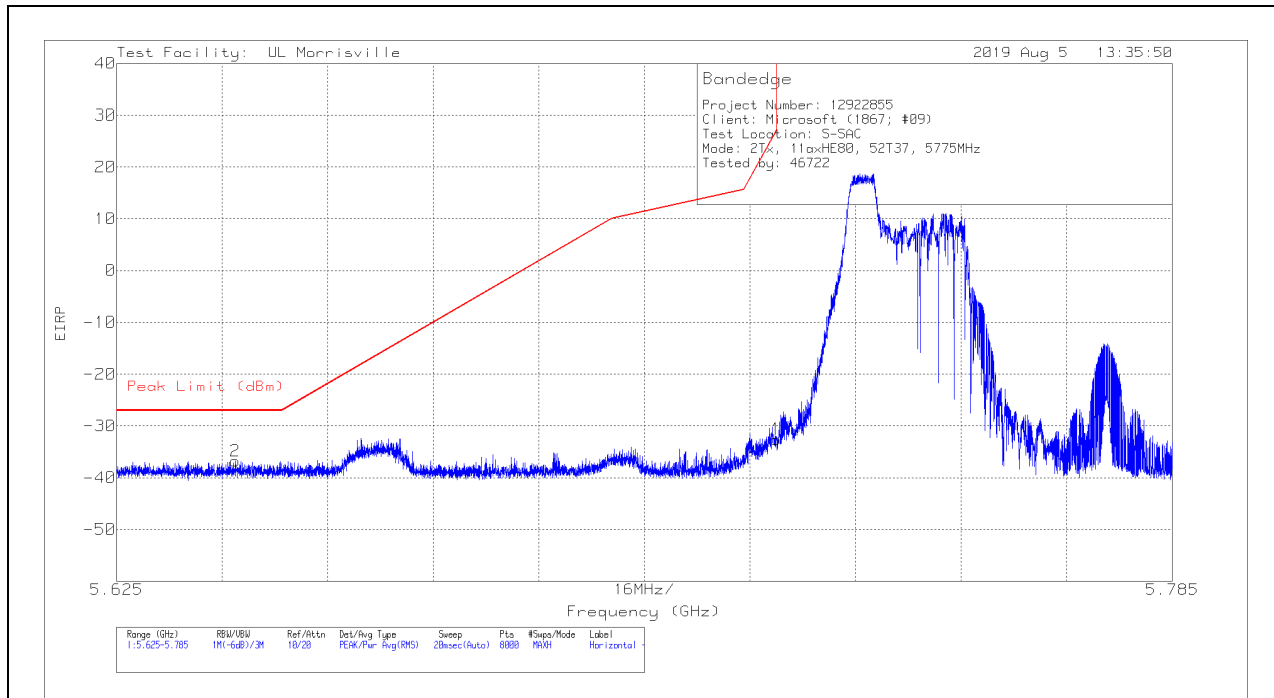
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-58.84	Pk	34.8	-22.4	11.8	-34.64	26.95	-61.59	289	251	V
3	5.87887	-52.97	Pk	34.8	-22.2	11.8	-28.57	7.13	-35.7	289	251	V
2	5.95367	-54.68	Pk	34.9	-21.9	11.8	-29.88	-27	-2.88	289	251	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 52-Tones, RU Index 37

BANDEDGE (CHANNEL 155 LOW EDGE)

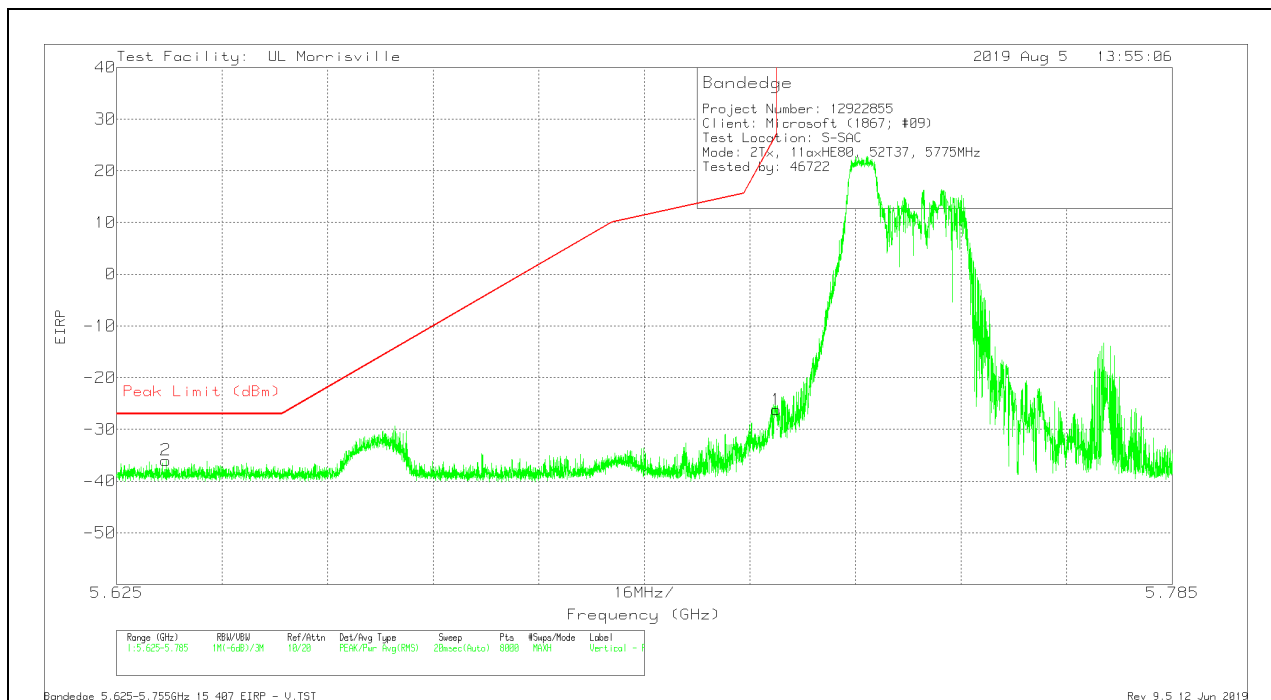
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.64298	-60.09	Pk	34.7	-23.2	11.8	-36.79	-27	-9.79	15	396	H
1	5.725	-55.79	Pk	34.7	-23.3	11.8	-32.59	26.99	-59.58	15	396	H

Pk - Peak detector

VERTICAL RESULT



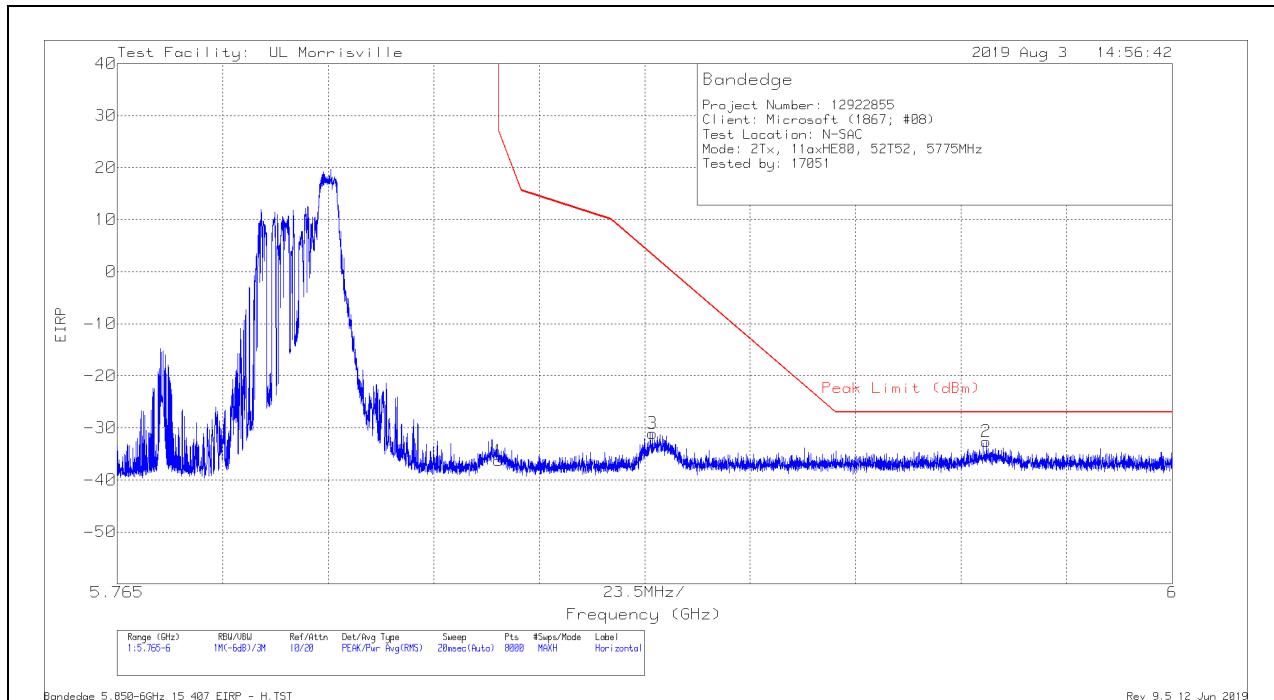
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0072 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.63246	-59.08	Pk	34.7	-23.4	11.8	-35.98	-27	-8.98	336	257	V
1	5.725	-49.38	Pk	34.7	-23.3	11.8	-26.18	26.99	-53.17	336	257	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 52-Tones, RU Index 52

BANDEDGE (CHANNEL 155 HIGH EDGE)

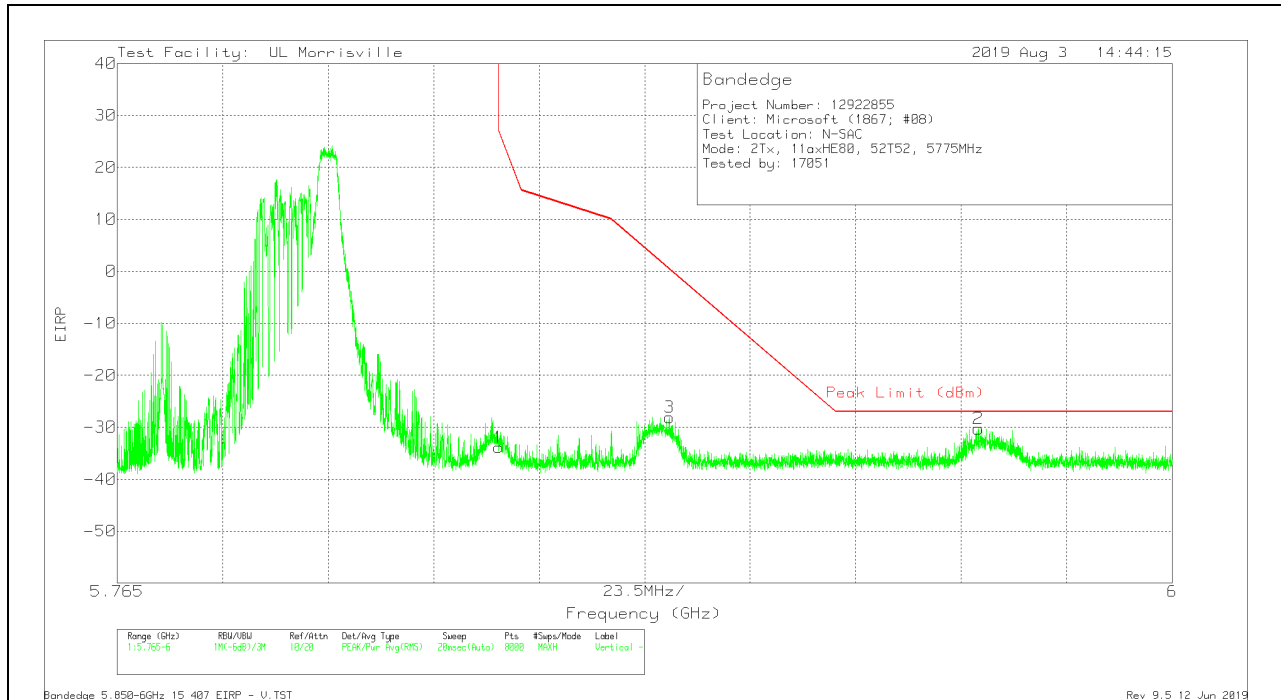
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-60.51	Pk	34.8	-22.4	11.8	-36.31	26.95	-63.26	0	369	H
3	5.88422	-55.57	Pk	34.9	-22.2	11.8	-31.07	3.18	-34.25	0	369	H
2	5.95858	-57.41	Pk	34.9	-21.9	11.8	-32.61	-27	-5.61	0	369	H

Pk - Peak detector

VERTICAL RESULT



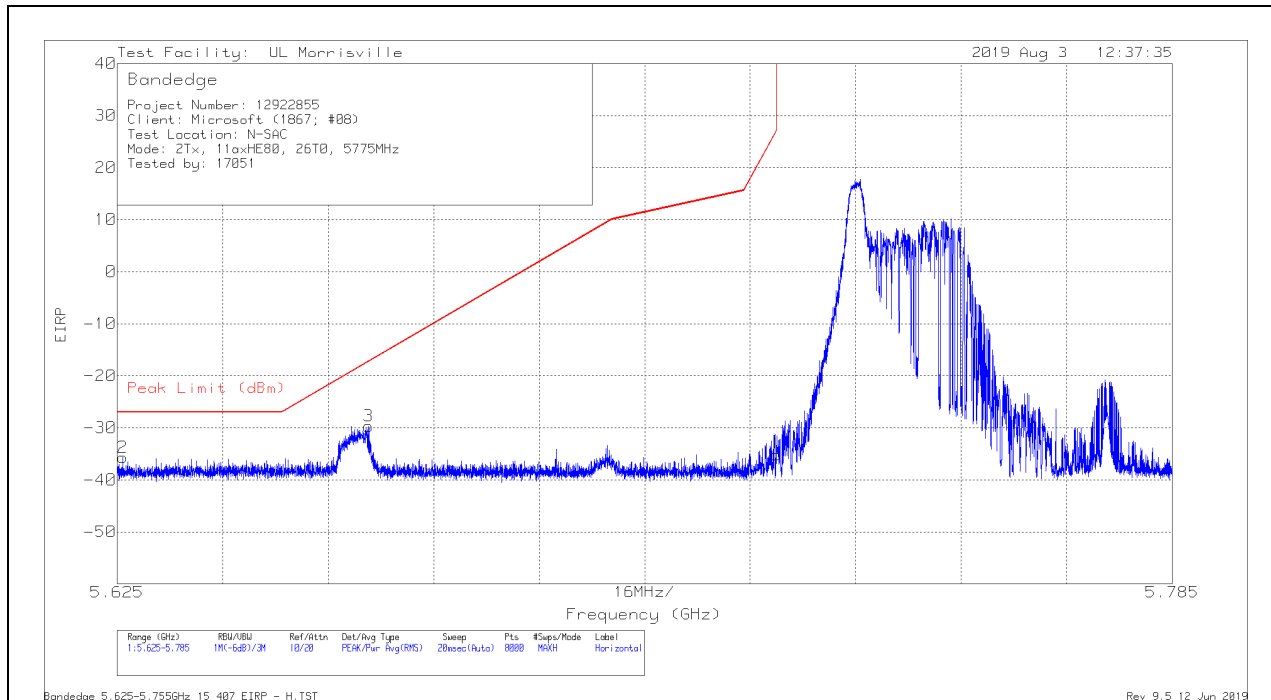
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-58.06	Pk	34.8	-22.4	11.8	-33.86	26.95	-60.81	287	249	V
3	5.88801	-52.71	Pk	34.9	-22.1	11.8	-28.11	.37	-28.48	287	249	V
2	5.95682	-55.09	Pk	34.9	-21.9	11.8	-30.29	-27	-3.29	287	249	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 0

BANDEGE (CHANNEL 155 LOW EDGE)

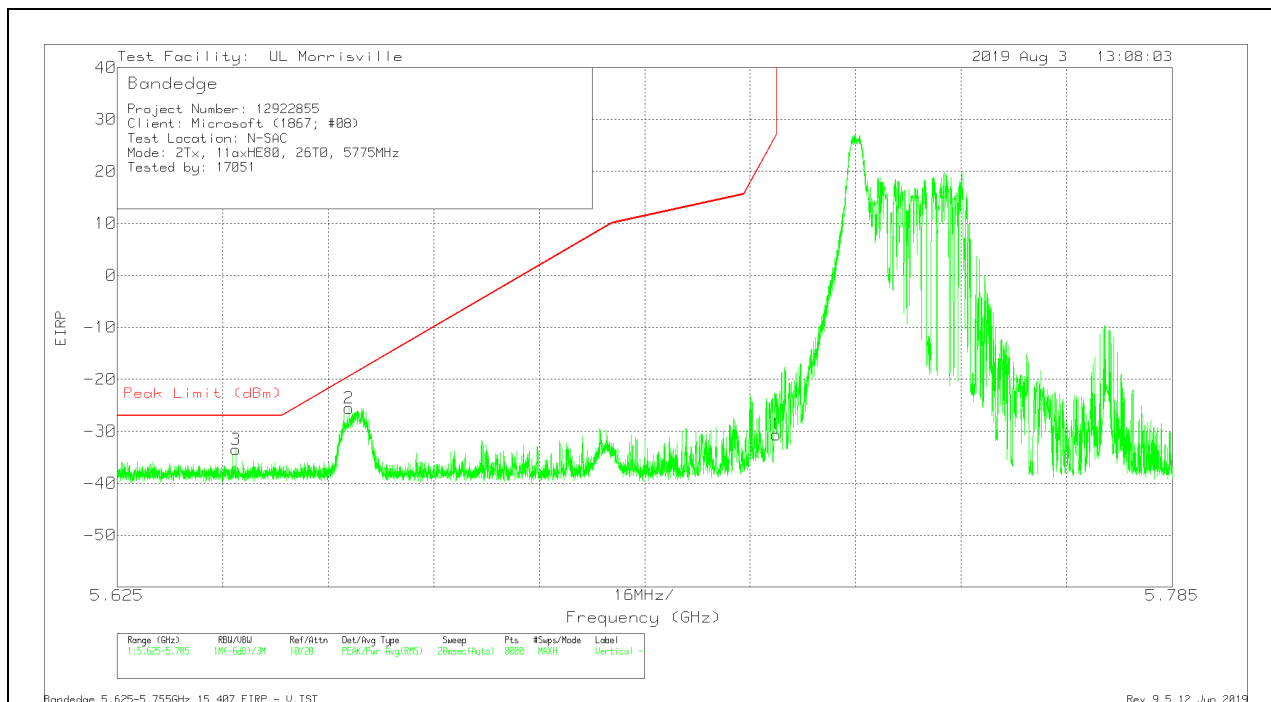
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.62588	-59.08	Pk	34.6	-23	11.8	-35.68	-27	-8.68	249	374	H
3	5.66315	-53.09	Pk	34.6	-23	11.8	-29.69	-17.27	-12.42	249	374	H
1	5.725	-58.65	Pk	34.6	-22.9	11.8	-35.15	26.99	-62.14	249	374	H

Pk - Peak detector

VERTICAL RESULT



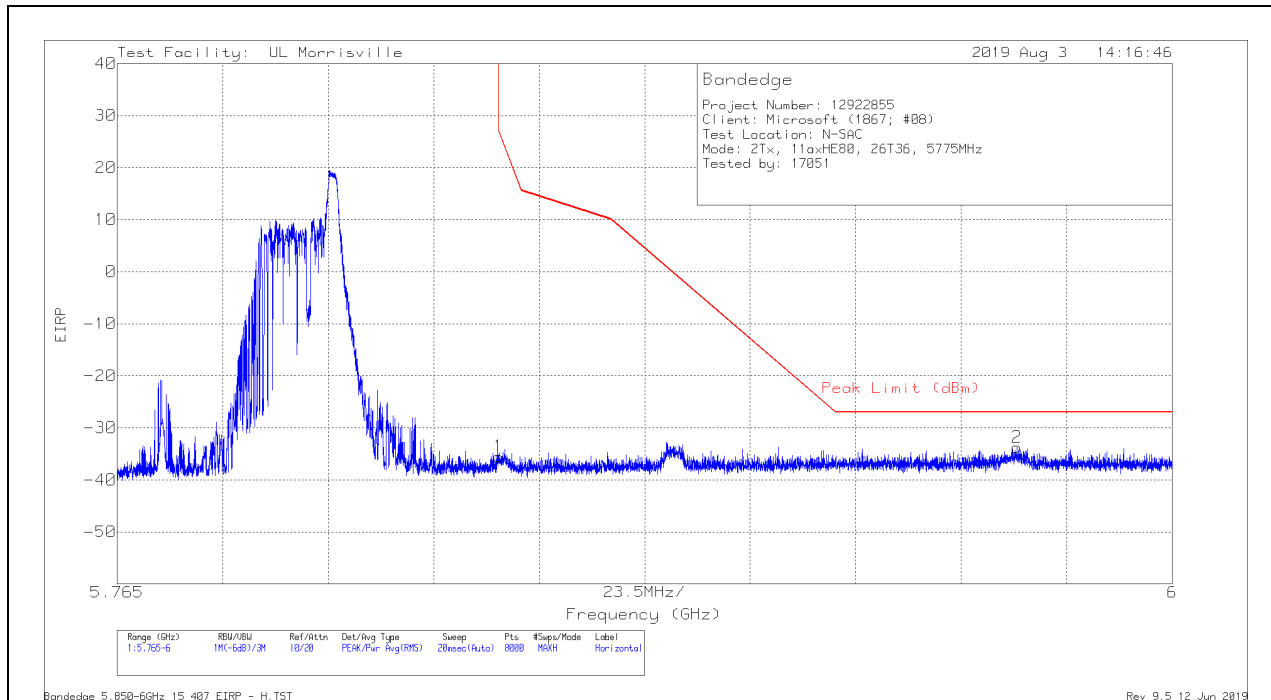
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	5.643	-57.02	Pk	34.6	-22.9	11.8	-33.52	-27	-6.52	288	230	V
2	5.66019	-49.08	Pk	34.6	-22.9	11.8	-25.58	-19.46	-6.12	288	230	V
1	5.725	-54.15	Pk	34.6	-22.9	11.8	-30.65	26.99	-57.64	288	230	V

Pk - Peak detector

2TX Antenna 1 + Antenna 2 OFDMA MODE – 26-Tones, RU Index 36

BANDEDGE (CHANNEL 155 HIGH EDGE)

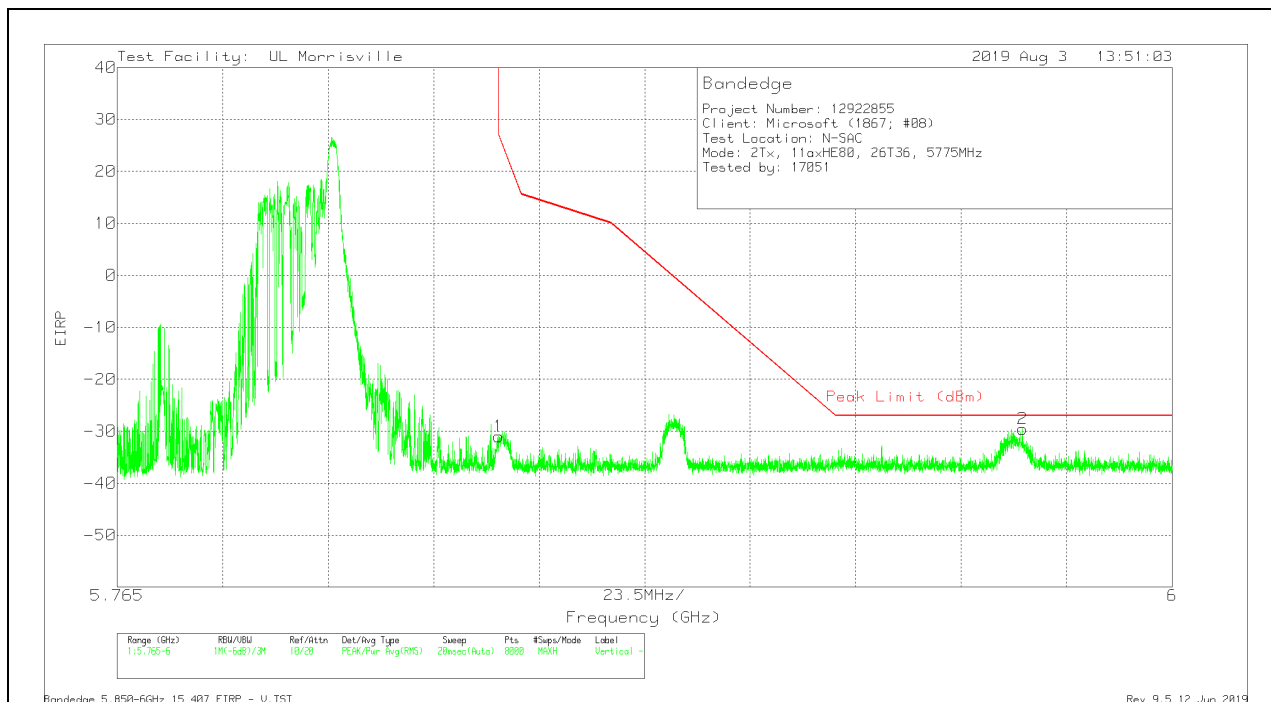
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-59.71	Pk	34.8	-22.4	11.8	-35.51	26.95	-62.46	257	371	H
2	5.96542	-58.63	Pk	35	-21.9	11.8	-33.73	-27	-6.73	257	371	H

Pk - Peak detector

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AT0067 AF (dBuV/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85002	-55.2	Pk	34.8	-22.4	11.8	-31	26.95	-57.95	288	238	V
2	5.96666	-54.45	Pk	35	-21.9	11.8	-29.55	-27	-2.55	288	238	V

Pk - Peak detector

9.1. WORST-CASE BELOW 1GHz AND ABOVE 18 GHz

Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed in worst-case test report R12922855-E11 (FCC ID: C3K1867, IC: 3048A-1867).

10. AC LINE CONDUCTED EMISSIONS

Radiated emissions below 1GHz, above 18GHz, and power line conducted emissions were performed in worst-case test report R12922855-E11 (FCC ID: C3K1867, IC: 3048A-1867).

11. SETUP PHOTOS

Please refer to R12922855-EP1 for setup photos

END OF TEST REPORT