



**FCC 47 CFR PART 15 SUBPART E
INDUSTRY CANADA RSS-210 ISSUE 8**

CERTIFICATION TEST REPORT

FOR

PORTABLE GAMING DEVICE

MODEL NUMBER: P2523

FCC ID: VOB-P2523

IC: 7361A-P2523

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Prepared for

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NVLAP LAB CODE 200065-0

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: NVIDIA
EUT DESCRIPTION: Portable Gaming Device
MODEL: P2523
SERIAL NUMBER: P2523-E02-S0929
DATE TESTED: NOVEMBER 21-DECEMBER 15, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart E	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 4	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. 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, any agency of the Federal Government, or any agency of any government.

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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 Subpart E, ANSI C63.10-2009, RSS-GEN Issue 4, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. 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.

47173 Benicia Street	47266 Benicia Street
<input checked="" type="checkbox"/> Chamber A(IC: 2324B-1)	<input type="checkbox"/> Chamber D(IC: 2324B-4)
<input checked="" type="checkbox"/> Chamber B(IC: 2324B-2)	<input type="checkbox"/> Chamber E(IC: 2324B-5)
<input checked="" type="checkbox"/> Chamber C(IC: 2324B-3)	<input type="checkbox"/> Chamber F(IC: 2324B-6)
	<input type="checkbox"/> Chamber G(IC: 2324B-7)
	<input type="checkbox"/> Chamber H(IC: 2324B-8)

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

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

Where relevant, the following sample calculation is provided:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \text{Cable} \\ &\text{Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

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

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

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

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a Portable Gaming Device.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum total conducted output power as follows:

Frequency Range (MHz)	Mode	Total Output Power (dBm)	Total Output Power (mW)
5180 - 5240	802.11a	14.9	30.90
5745 - 5825	802.11a	14.8	30.20
5180 - 5240	802.11n HT20	15.05	31.99
5745 - 5825	802.11n HT20	15.9	38.46
5180 - 5240	802.11n HT40	14.57	28.64
5755 - 5795	802.11n HT40	18.42	69.50
5210 - 5210	802.11ac HT80	15.95	39.36
5775 - 5775	802.11ac HT80	16.68	46.56

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna for the 802.11a, 802.11n/ac HT20, 802.11n/ac HT40, 802.11n/ac HT80 modes with maximum peak gains as described below:

Frequency (MHz)	Antenna Gain (dBi)	
	Core0	Core1
5.15	3.12	4.2
5.5	5.15	3.45
5.8	4.44	5.17

List of test reduction and modes covering other modes:

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5180 - 5240	802.11a legacy 1TX	802.11a 2TX CDD
5180 - 5240	802.11HT20 1TX	802.11n HT20 2TX CDD
5180 - 5240	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5180 - 5240	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5180 - 5240	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5180 - 5240	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5190 - 5230	802.11n HT40 1TX	802.11n HT40 2TX CDD
5190 - 5230	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5190 - 5230	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5190 - 5230	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5190 - 5230	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5210	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5210	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5260 - 5320	802.11a legacy 1TX	802.11a 2TX CDD
5260 - 5320	802.11HT20 1TX	802.11n HT20 2TX CDD
5260 - 5320	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5260 - 5320	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5260 - 5320	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5260 - 5320	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5270 - 5310	802.11n HT40 1TX	802.11n HT40 2TX CDD
5270 - 5310	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5270 - 5310	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5270 - 5310	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5270 - 5310	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5290	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5290	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

Authorized Frequency Band (Antenna port & Radiated Testing)		
Frequency Range (MHz)	Mode	Covered by
5500 - 5720	802.11a legacy 1TX	802.11a 2TX CDD
5500 - 5720	802.11HT20 1TX	802.11n HT20 2TX CDD
5500 - 5720	802.11HT20 2TX STBC	802.11n HT20 2TX CDD
5500 - 5720	802.11ac VHT20 1TX	802.11n HT20 2TX CDD
5500 - 5720	802.11ac VHT20 2TX STBC	802.11n HT20 2TX CDD
5500 - 5720	802.11ac VHT20 2TX CDD	802.11n HT20 2TX CDD
5510 - 5710	802.11n HT40 1TX	802.11n HT40 2TX CDD
5510 - 5710	802.11n HT40 2TX STBC	802.11n HT40 2TX CDD
5510 - 5710	802.11ac VHT40 1TX	802.11n HT40 2TX CDD
5510 - 5710	802.11ac VHT40 2TX STBC	802.11n HT40 2TX CDD
5510 - 5710	802.11ac VHT40 2TX CDD	802.11n HT40 2TX CDD
5530-5690	802.11ac VHT80 1TX	802.11ac VHT80 2TX CDD
5530-5690	802.11ac VHT80 2TX STBC	802.11ac VHT80 2TX CDD

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X, Y, Z it was determined that the Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in the Z orientation.

Based on the baseline scan, the worst-case data rates were:

802.11a mode: 6 Mbps

802.11n HT20mode: MCS0

802.11n HT40mode: MCS0

802.11ac VHT80mode: MCS0

All conducted testing was performed in n-mode only for HT20/40, which covers ac-mode testing.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	NVIDIA	SPA011AU5W	R43001	N/A

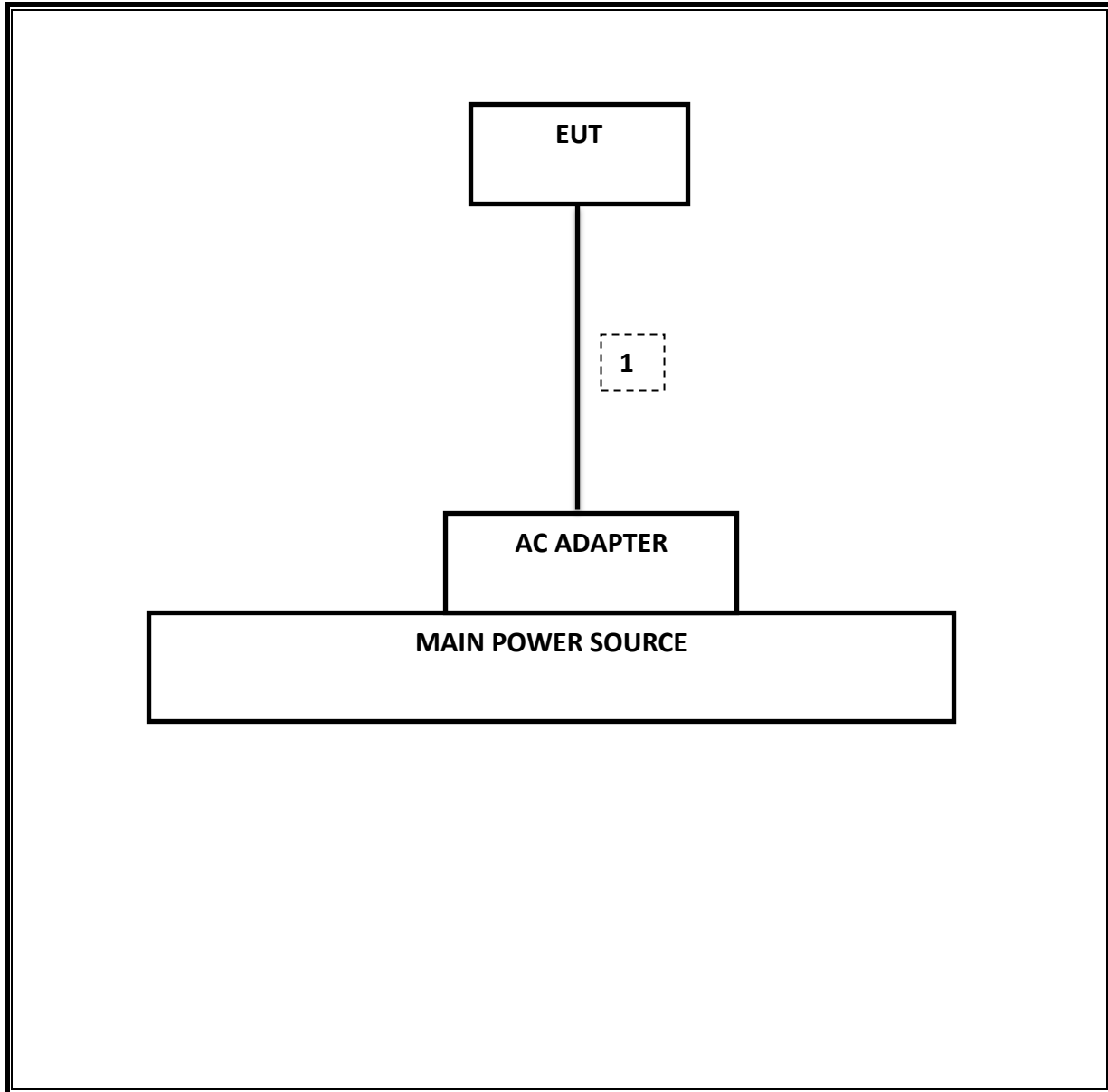
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Coax	Shielded	1.2m	N/A
2	USB	1	USB	Unshielded	1.0m	N/A

TEST SETUP

The EUT is setup as a stand-alone device.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

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

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C01069	12/20/14
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	02/26/15
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/15
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/15
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/22/15
Preamplifier, 40 GHz	Miteq	NSP4000-SP2	C00990	08/02/15
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	N/A	03/06/15
Antenna, Horn, 18 GHz	ETS	3117	C01022	02/21/15
Antenna, Horn, 40 GHz	ARA	MWH-2640/B	C00981	06/28/15
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00589	12/17/15
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/15
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/15
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/15
Reject Filter, 5.725-5.825 GHz	Micro-Tronics	BRC13192	N02676	CNR
NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NIST USA.				

7. SUMMARY TABLE

FCC Part Section	Test Description	Test Limit	Test Condition	Test Result	Worst Case
15.407 (a)	Occupied Band width (26dB)	N/A	Conducted	Pass	151.5 MHz
14.407	6dB Band width	>500KHz		Pass	16.35 MHz
15.407 (a)(2)	TX Cond. Power 5.15-2.25, 5.25-5.35 & 5.47-5.725	<24dBm or 11+10Log(OBW)		Pass	17.58 dBm
15.407 (a)(3)	TX Cond. Power 5.725-5.825	< 30dBm or 17+10Log(OBW)		Pass	18.42 dBm
15.407 (a)(5)	PSD			Pass	3.04 dBm
15.207 (a)	AC Power Line conducted emissions	Section 10	Radiated	Pass	56.64 dBuV (AV)
15.407 (b) & 15.209	Radiated Spurious Emission	< 54dBuV/m		Pass	53.77 dBuV/m
15.407 (h)(2)	Dynamic Frequency Selection	N/A	Radiated / Conducted	N/A	N/A

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

LIMITS

None; for reporting purposes only.

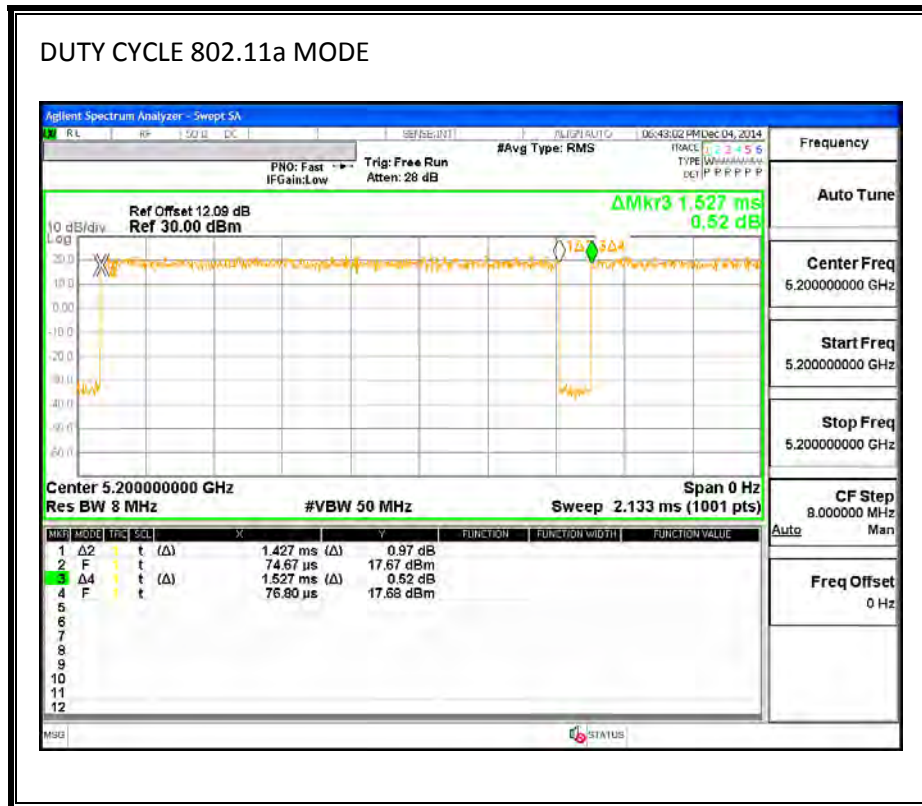
PROCEDURE

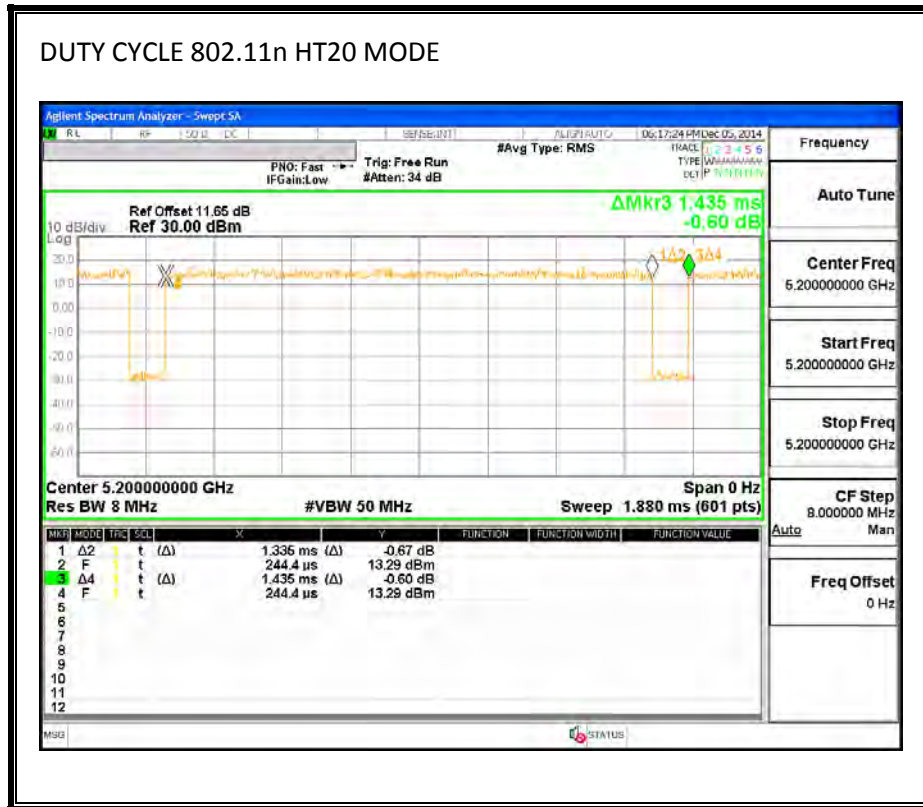
KDB 789033 Zero-Span Spectrum Analyzer Method.

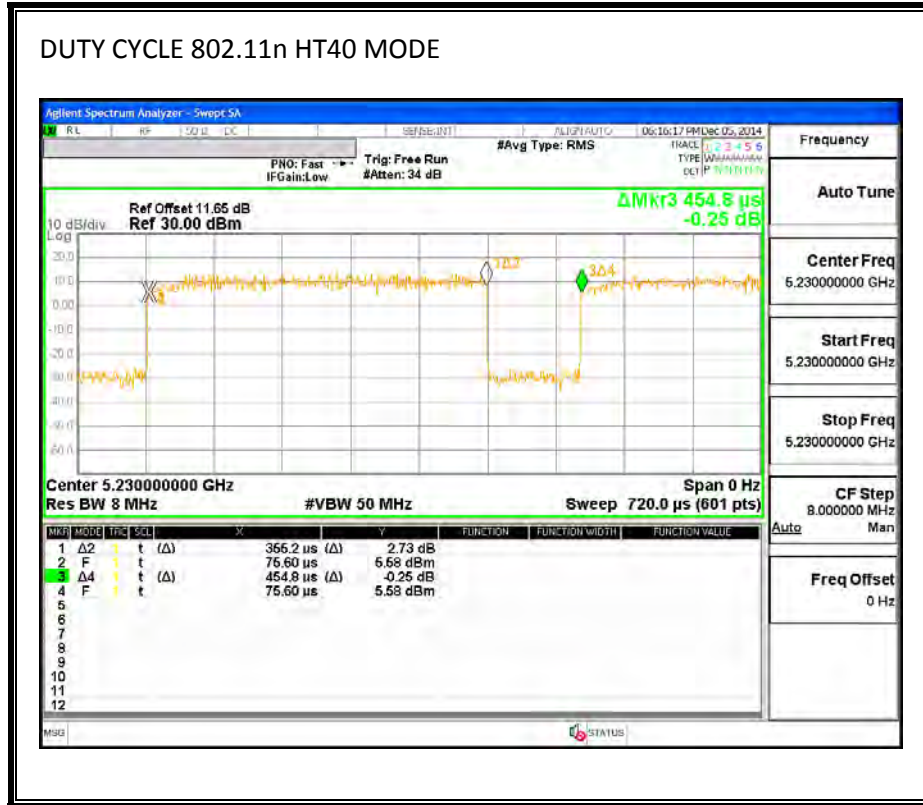
8.1. ON TIME AND DUTY CYCLE RESULTS

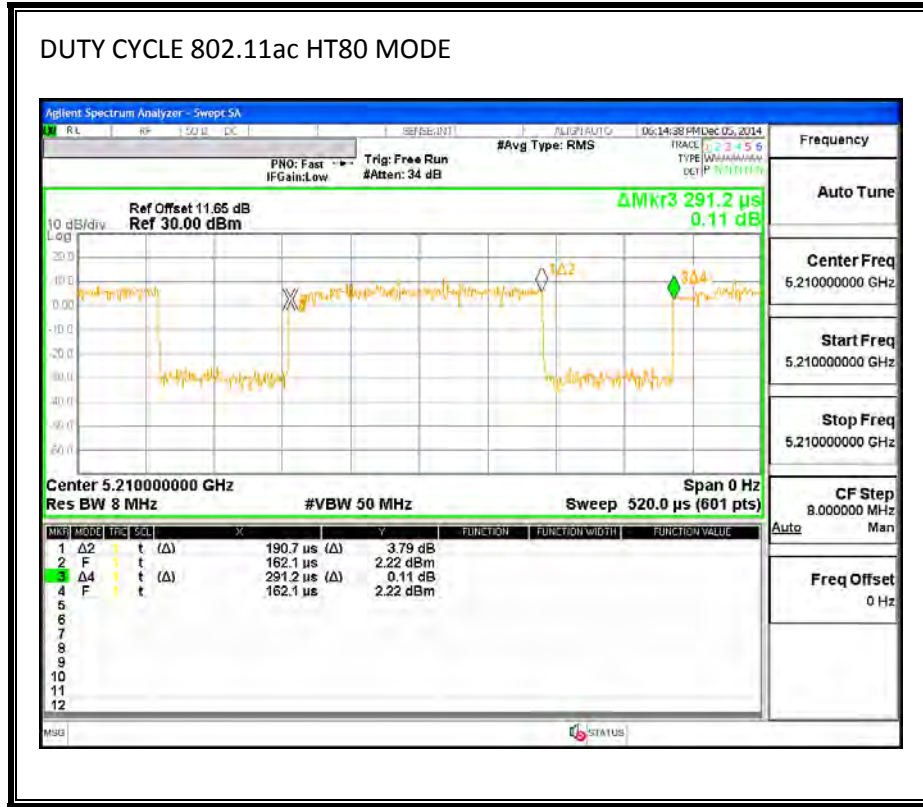
Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	1/T Minimum VBW (kHz)
802.11a	1.427	1.527	0.935	93.5%	0.29	0.701
802.11n HT20	1.335	1.435	0.930	93.0%	0.31	0.749
802.11n HT40	0.355	0.455	0.781	78.1%	1.07	2.815
802.11ac HT80	0.191	0.291	0.655	65.5%	1.84	5.244

8.2. DUTY CYCLE PLOTS









9. MEASUREMENT METHOD

789033 D02 General UNII Test Procedures New Rules v01

The Duty Cycle is less than 98% and consistent therefore KDB 789033 Method SA-2 is used for power and PPSD

The Duty Cycle is less than 98% and consistent, KDB 789033 Method AD with Power RMS Averaging and duty cycle correction is used.

26 dB and 6dB Emission BW: KDB 789033 D02 v01, Section C.

99% Occupied BW: KDB 789033 D02 v01, Section D.

Conducted Output Power: KDB 789033 D02 v01, Section E.2.d and E.3.b (Method PM-G).

Power Spectral Density: KDB 789033 D02 v01, Section F.

Unwanted emissions in restricted bands: KDB 789033 D02 v01, Sections G and H.

Unwanted emissions in non-restricted bands: KDB 789033 D02 v01, Sections G and H.

10. ANTENNA PORT TEST RESULTS SISO Chain 0 and 1

10.1. 6 dB BANDWIDTH

LIMITS

FCC §15.407

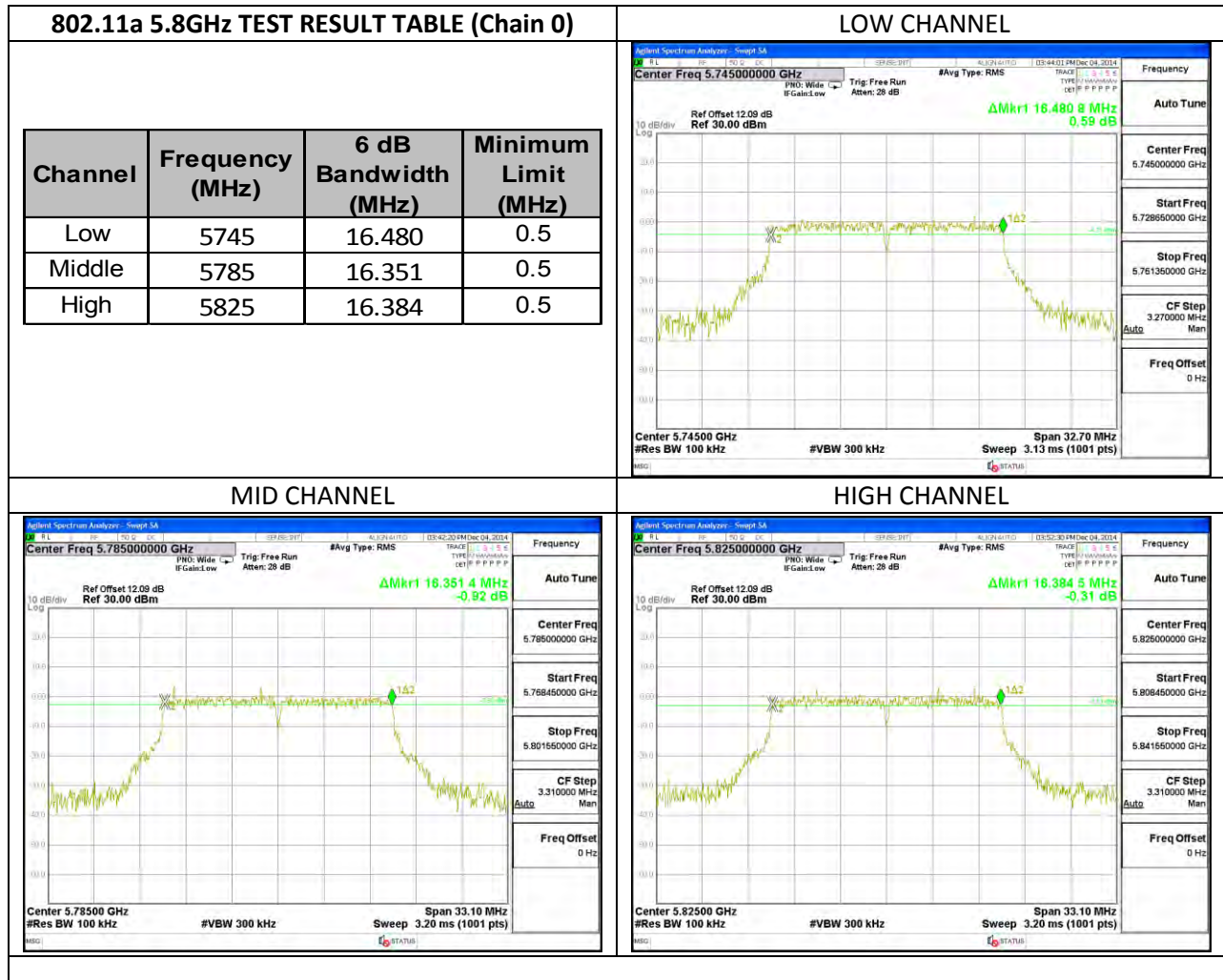
The minimum 6 dB bandwidth shall be at least 500 kHz.

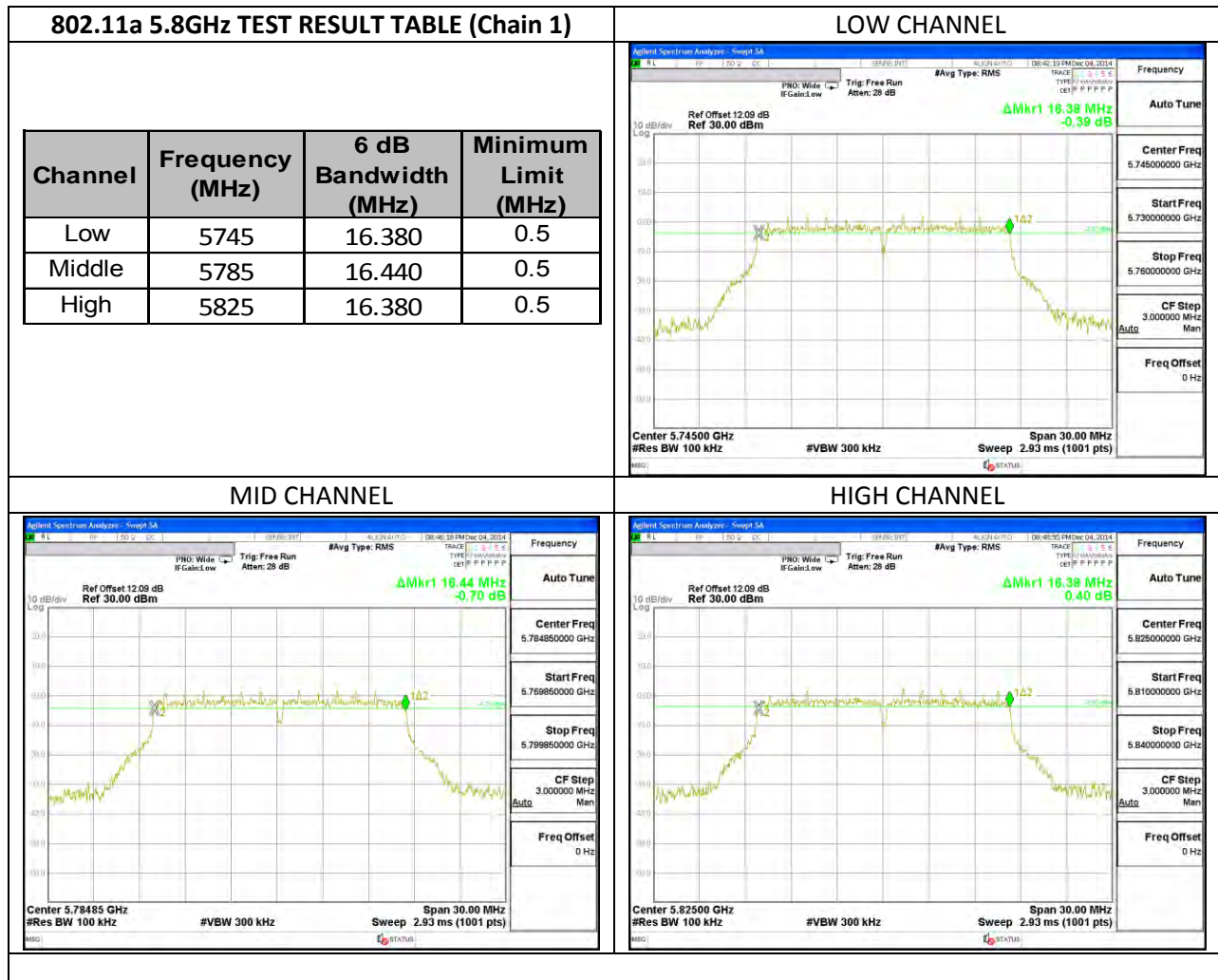
TEST PROCEDURE

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

10.1.1. 6 dB BANDWIDTH PLOTS AND TABLE





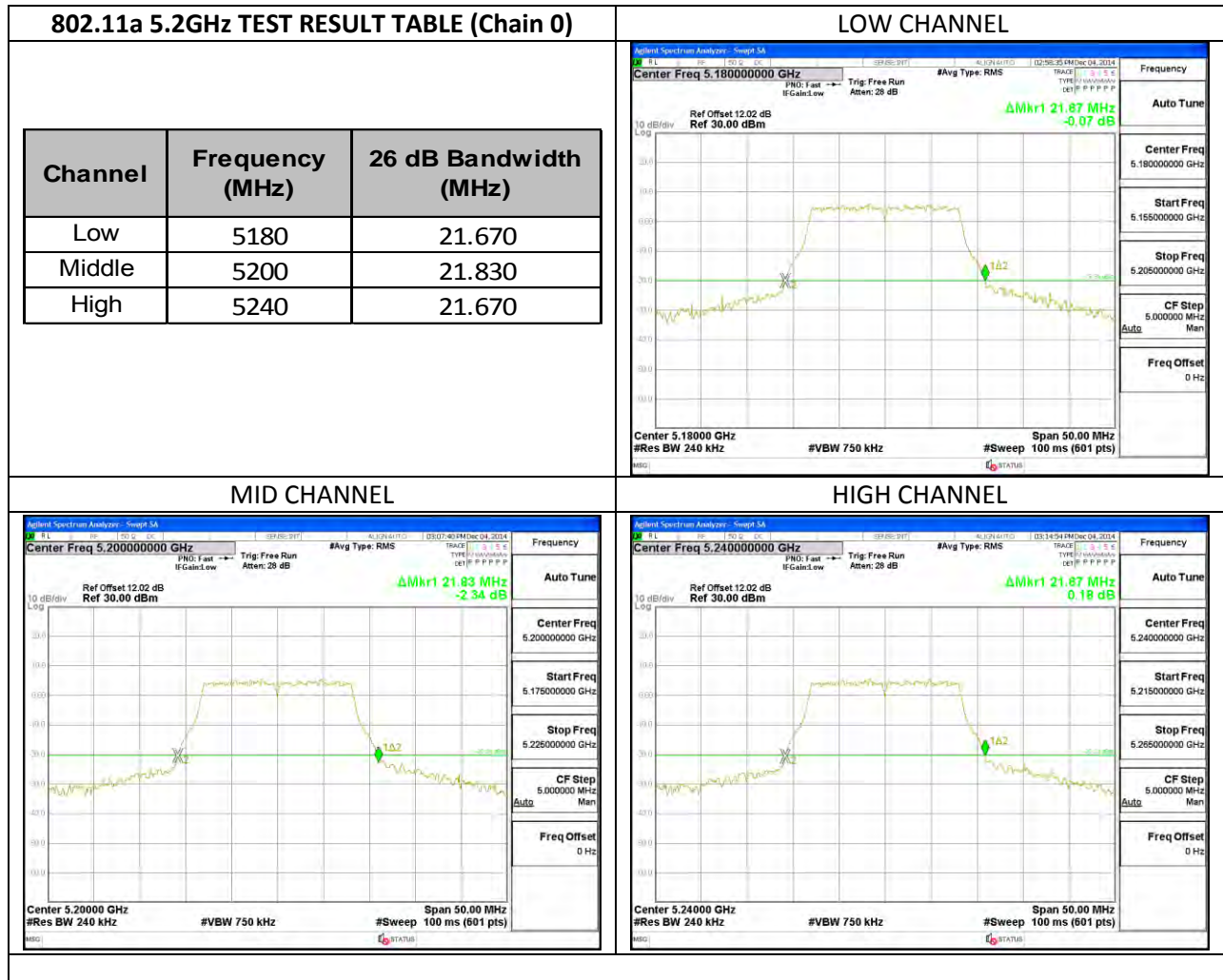
10.2. 26 dB BANDWIDTH

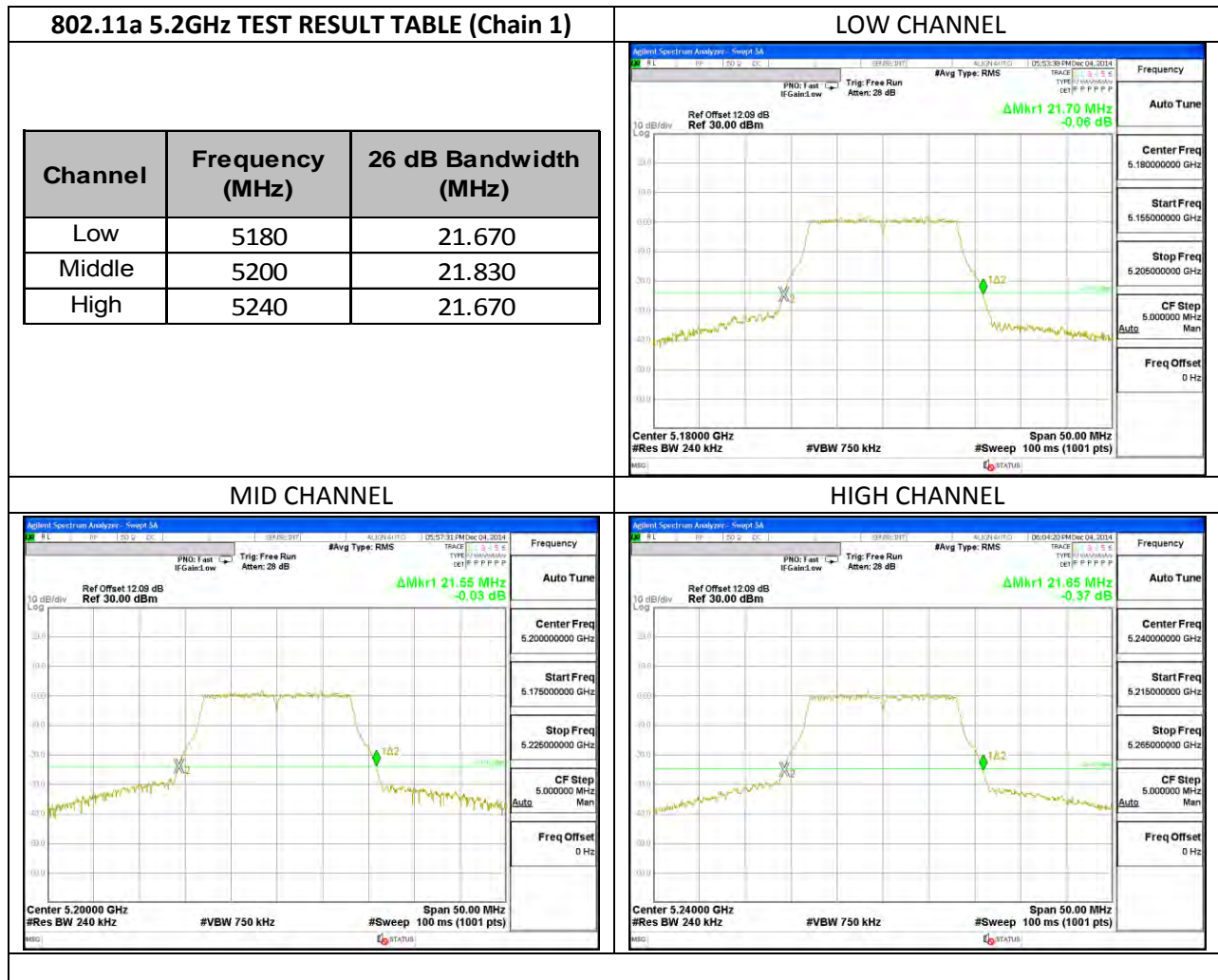
LIMITS

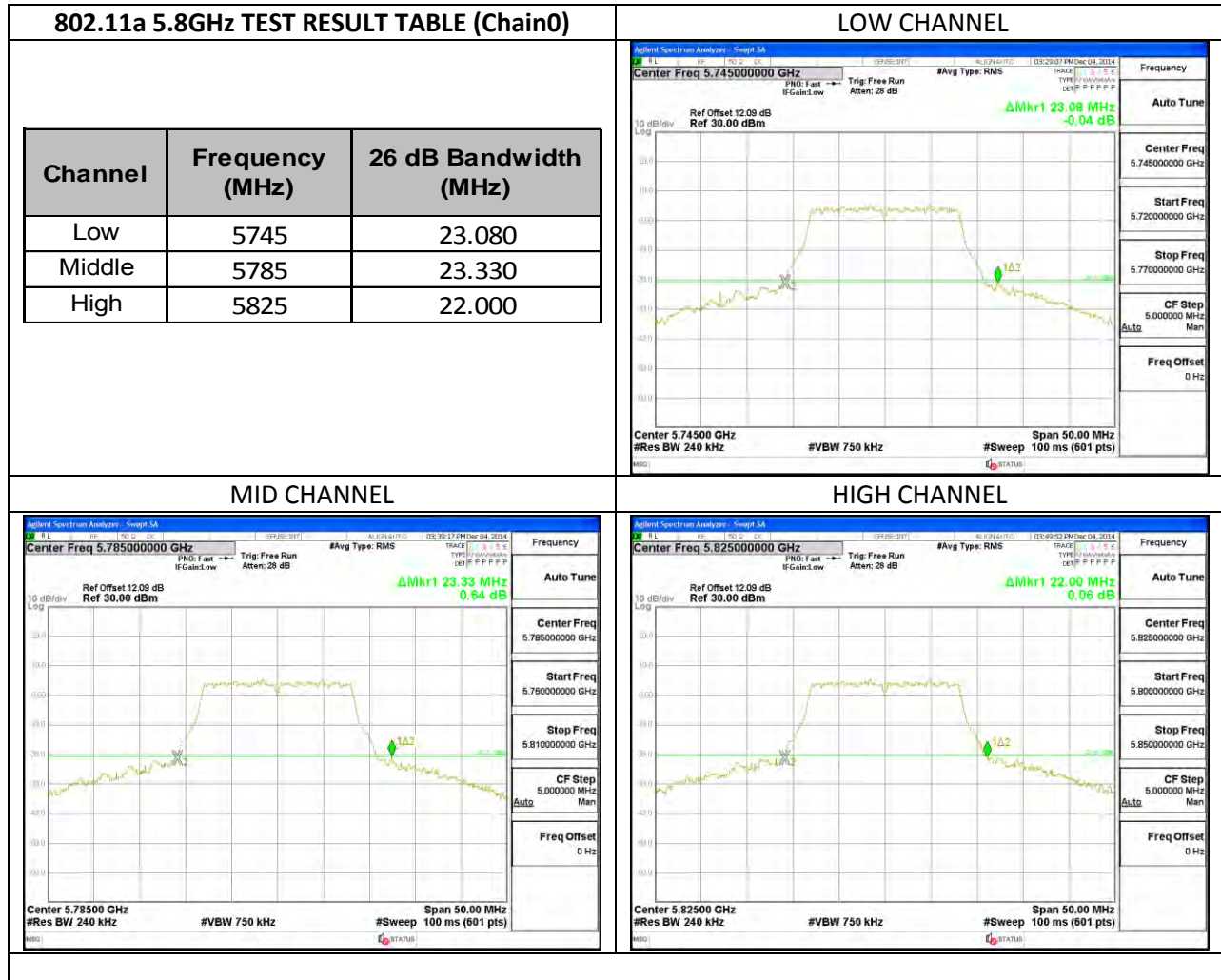
None; for reporting purposes only.

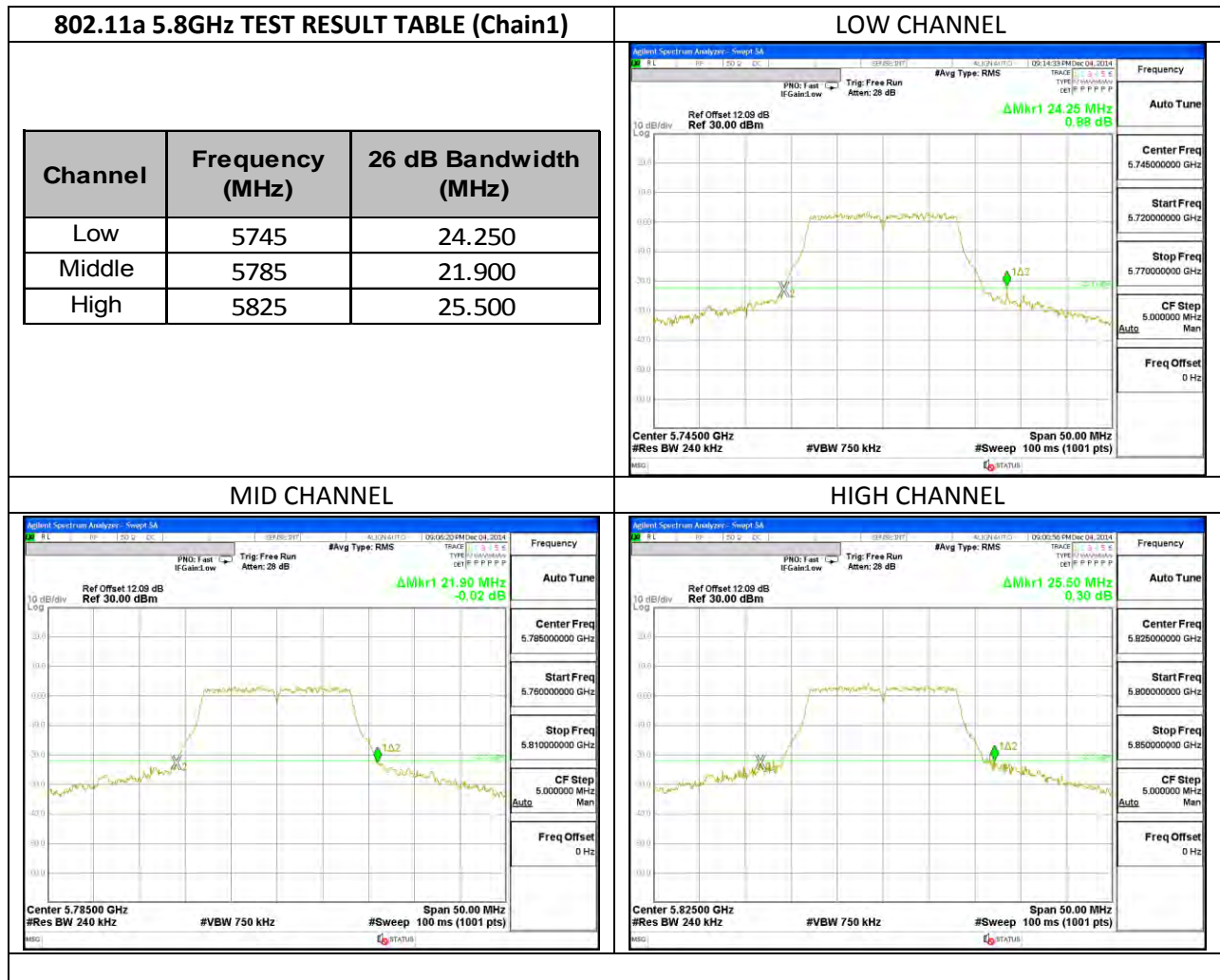
RESULTS

10.2.1. 26 dB BANDWIDTH PLOTS AND TABLE









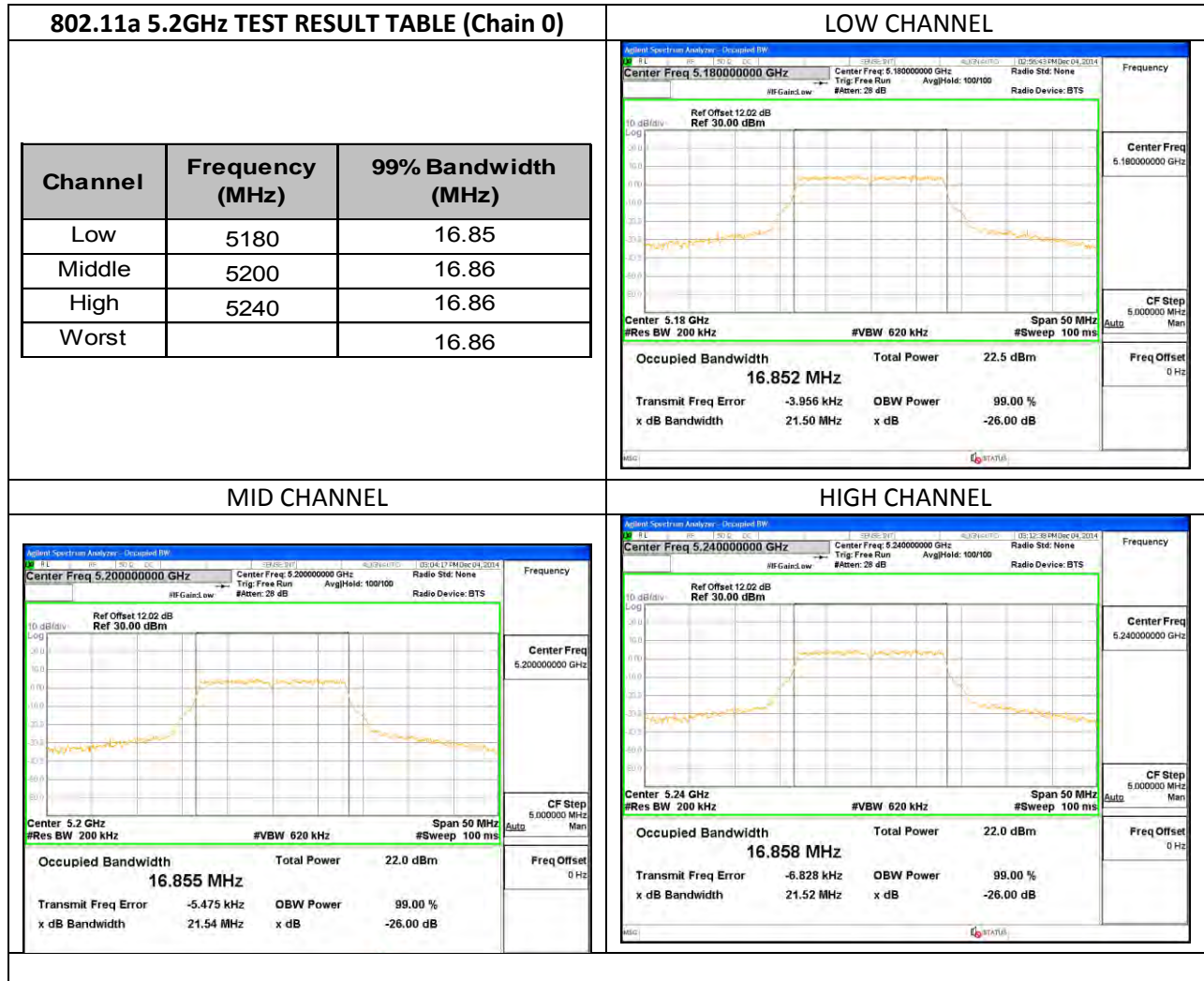
10.3. 99% BANDWIDTH

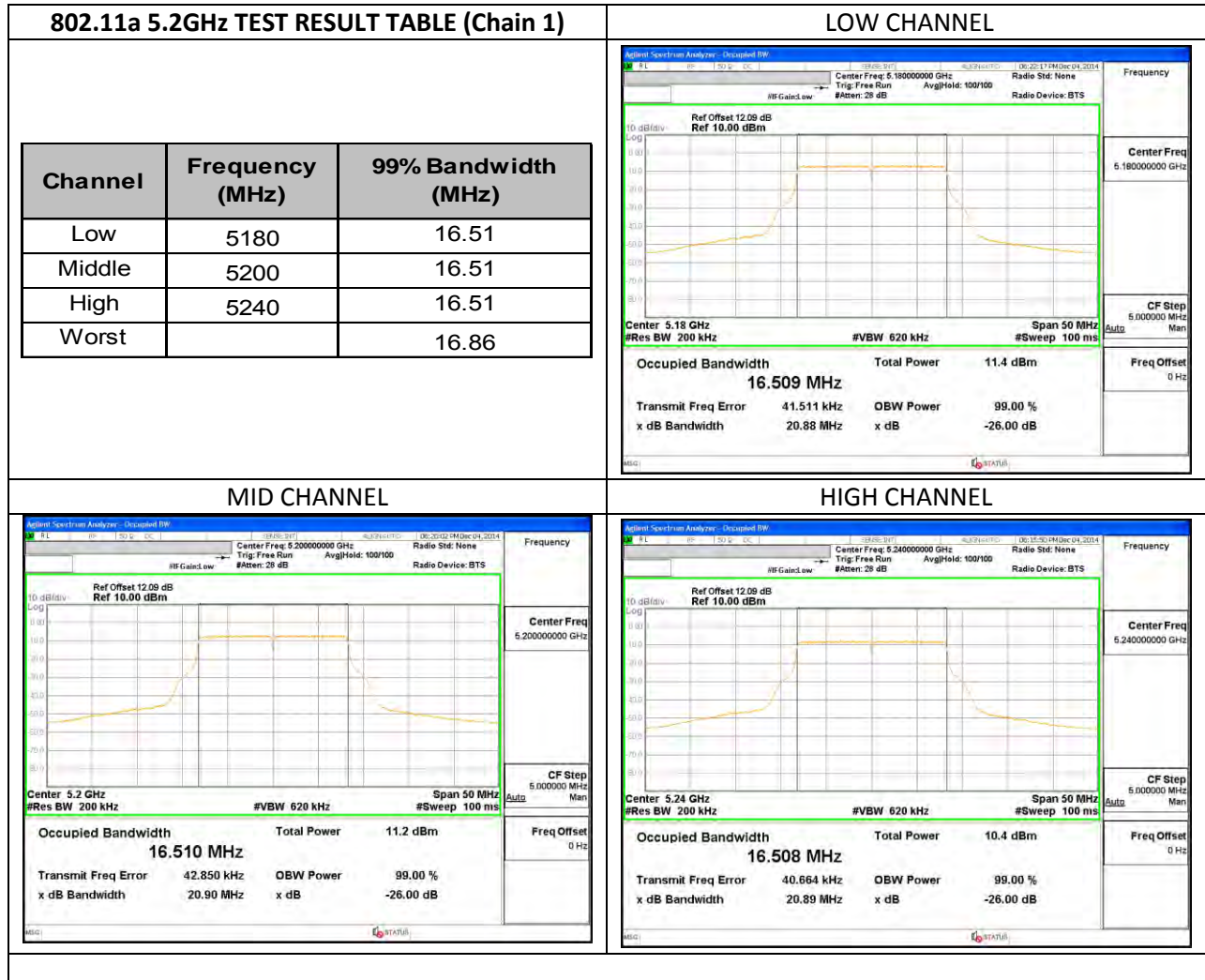
LIMITS

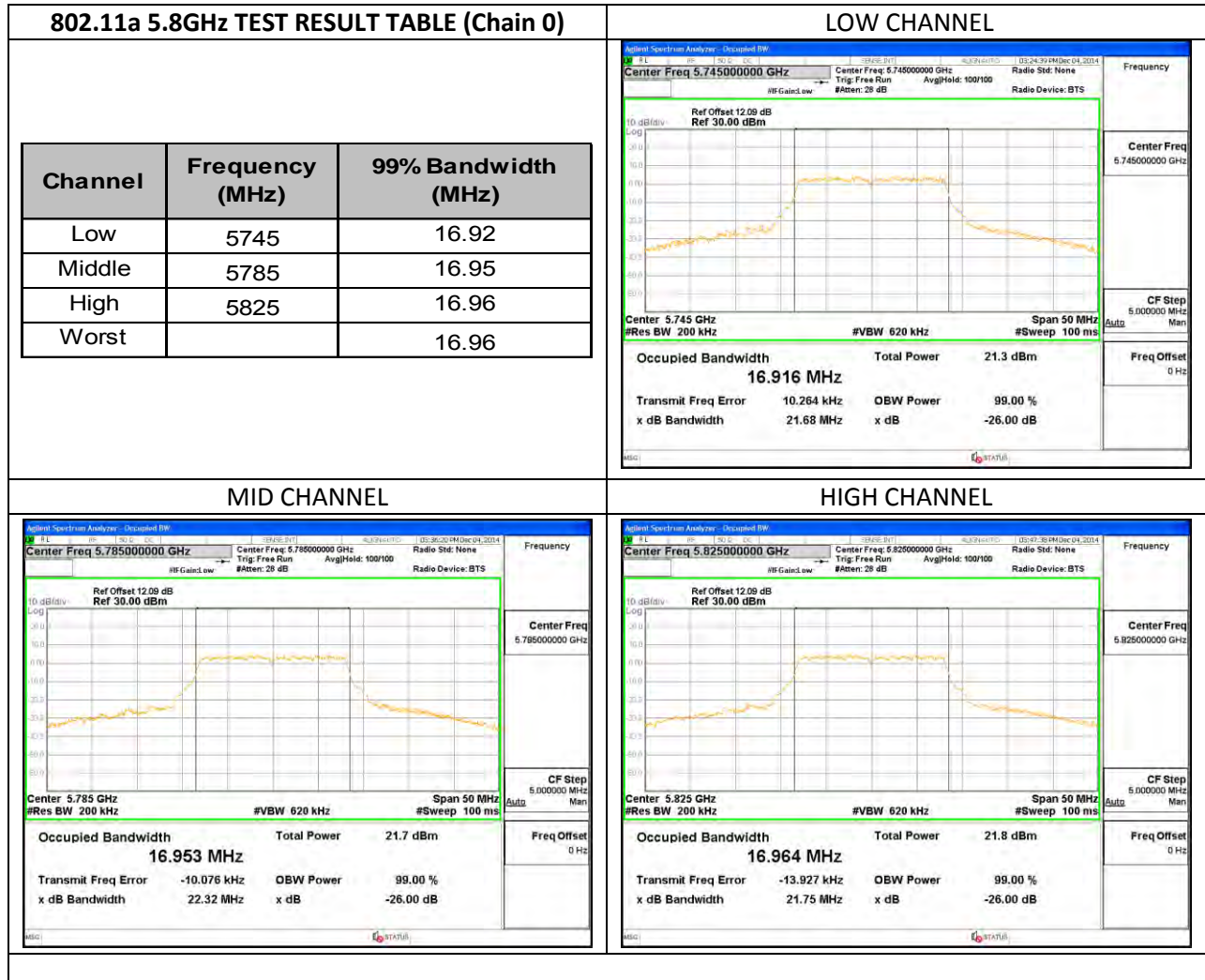
None; for reporting purposes only.

RESULTS

10.3.1. 99% BANDWIDTH PLOTS AND TABLE









10.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

10.4.1. 802.11a MODE IN THE 5.2 GHZ BAND

Chain0

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5180	14.50
Mid	5200	14.20
High	5240	14.10
Worst		14.50

Chain1

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5180	14.80
Mid	5200	14.90
High	5240	14.50
Worst		14.90

10.4.2. 802.11a MODE IN THE 5.8 GHZ BAND

Chain0

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5745	14.80
Mid	5785	14.70
High	5825	14.60
Worst		14.80

Chain1

Channel	Frequency (MHz)	Avg Power (dBm)
Low	5745	13.00
Mid	5785	13.00
High	5825	13.00
Worst		13.00

10.5. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band 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 MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

DIRECTIONAL ANTENNA GAIN

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

RESULTS

10.5.1. 802.11a MODE IN THE 5.2 GHz BAND (Chain 0)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	21.67	16.9	3.21
Mid	5200	21.83	16.9	3.21
High	5240	21.67	16.9	3.21

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	24.00	22.27	19.06	19.06	11.00	10.00	10.00
Mid	5200	24.00	22.27	19.06	19.06	11.00	10.00	10.00
High	5240	24.00	22.27	19.06	19.06	11.00	10.00	10.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.50	14.79	19.06	-4.27
Mid	5200	14.20	14.49	19.06	-4.57
High	5240	14.10	14.39	19.06	-4.67

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	4.972	5.26	10.00	-4.74
Mid	5200	5.322	5.61	10.00	-4.39
High	5240	5.468	5.76	10.00	-4.24

10.5.2. 802.11a MODE IN THE 5.2 GHz BAND (Chain 1)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5180	21.7	16.5	4.20
Mid	5200	21.55	16.5	4.20
High	5240	21.65	16.5	4.20

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	24.00	22.18	17.98	17.98	11.00	10.00	10.00
Mid	5200	24.00	22.18	17.98	17.98	11.00	10.00	10.00
High	5240	24.00	22.18	17.98	17.98	11.00	10.00	10.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	14.80	15.09	17.98	-2.89
Mid	5200	14.90	15.19	17.98	-2.79
High	5240	14.50	14.79	17.98	-3.19

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	5.470	5.76	10.00	-4.24
Mid	5200	5.299	5.59	10.00	-4.41
High	5240	4.948	5.24	10.00	-4.76

10.5.3. 802.11a MODE IN THE 5.8 GHz BAND (Chain 0)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5745	23.1	16.9	4.44
Mid	5785	23.3	17.0	4.44
High	5825	22.0	17.0	4.44

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5745	30.00	29.27	35.27	29.27	30.00	17.00	17.00
Mid	5785	30.00	29.27	35.27	29.27	30.00	17.00	17.00
High	5825	30.00	29.27	35.27	29.27	30.00	17.00	17.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	14.80	15.09	29.27	-14.18
Mid	5785	14.70	14.99	29.27	-14.28
High	5825	14.60	14.89	29.27	-14.38

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5745	5.18	5.47	17.00	-11.54
Mid	5785	5.14	5.43	17.00	-11.57
High	5825	5.22	5.51	17.00	-11.49

10.5.4. 802.11a MODE IN THE 5.8 GHz BAND (Chain 1)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain (dBi)
Low	5745	24.5	16.5	5.17
Mid	5785	21.9	16.5	5.17
High	5825	25.5	16.5	5.17

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5745	30.00	29.27	35.27	29.27	30.00	17.00	17.00
Mid	5785	30.00	29.27	35.27	29.27	30.00	17.00	17.00
High	5825	30.00	29.27	35.27	29.27	30.00	17.00	17.00

Duty Cycle CF (dB)	0.29	Included in Calculations of Corr'd Power & PPSSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	13.00	13.29	29.27	-15.98
Mid	5785	13.00	13.29	29.27	-15.98
High	5825	13.00	13.29	29.27	-15.98

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5745	5.20	5.49	17.00	-11.51
Mid	5785	4.93	5.22	17.00	-11.78
High	5825	5.02	5.31	17.00	-11.69

11. ANTENNA PORT TEST RESULTS MIMO

11.1. 6 dB BANDWIDTH

LIMITS

FCC §15.407

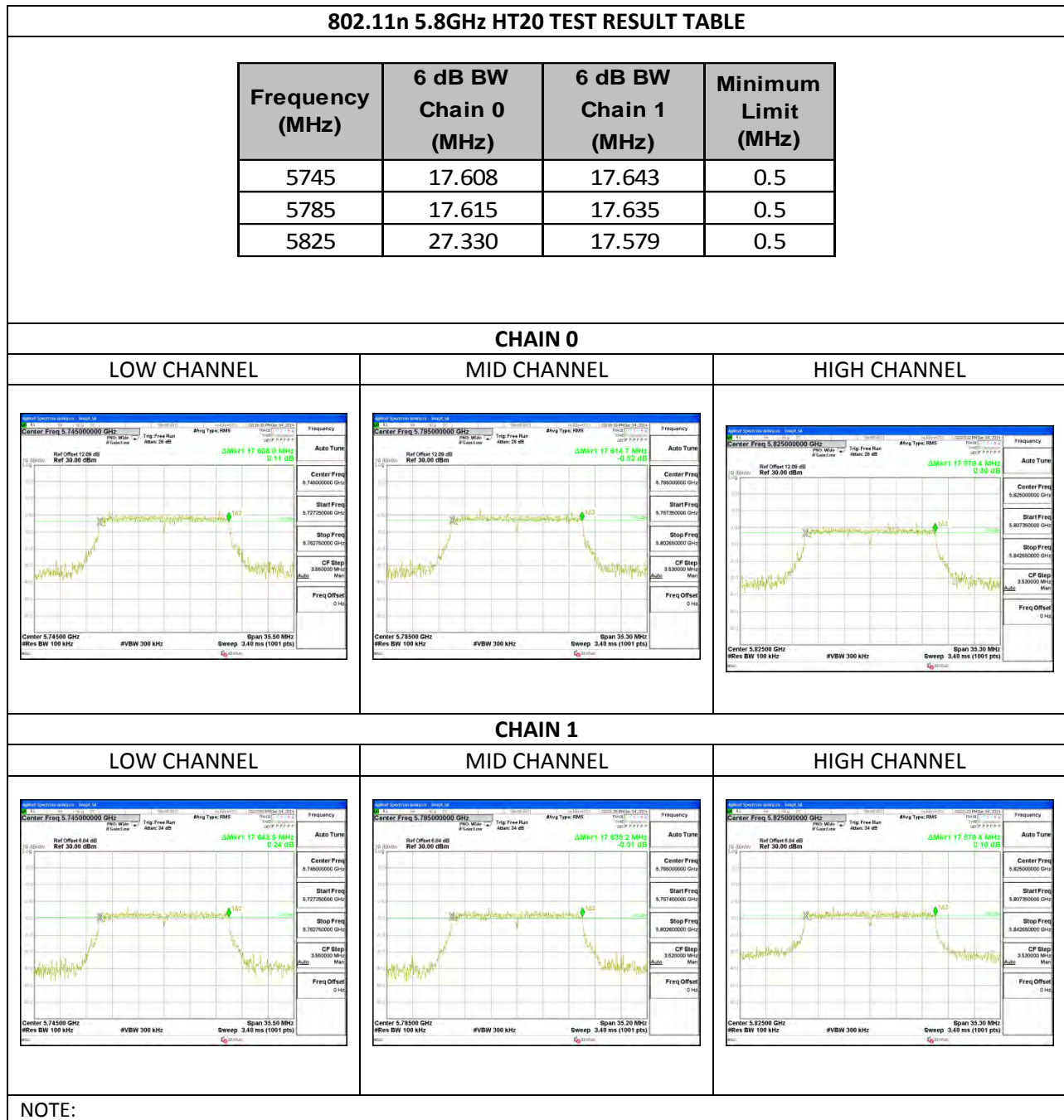
The minimum 6 dB bandwidth shall be at least 500 kHz.

TEST PROCEDURE

Reference to 789033 D02 General UNII Test Procedures New Rules v01: The transmitter output is connected to a spectrum analyzer with the RBW set to 100kHz, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

11.1.1. 6 dB BANDWIDTH PLOTS AND TABLE

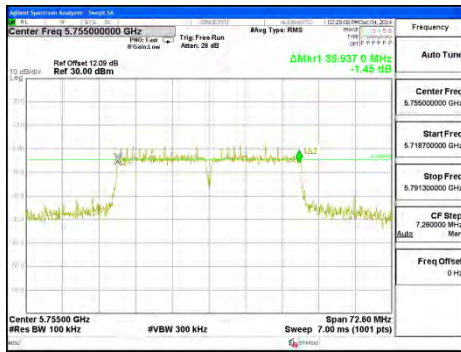


802.11n 5.8GHz HT40 TEST RESULT TABLE

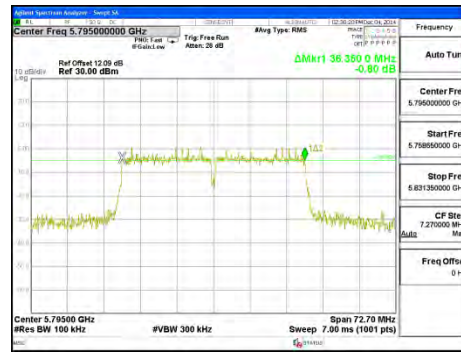
Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
5755	35.937	36.059	0.5
5795	36.350	36.158	0.5

CHAIN 0

LOW CHANNEL

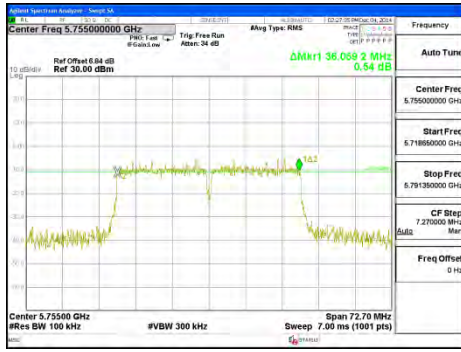


HIGH CHANNEL

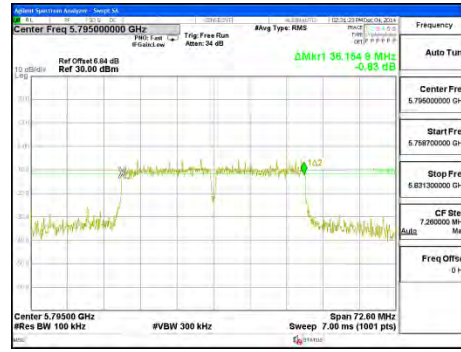


CHAIN 1

LOW CHANNEL



HIGH CHANNEL

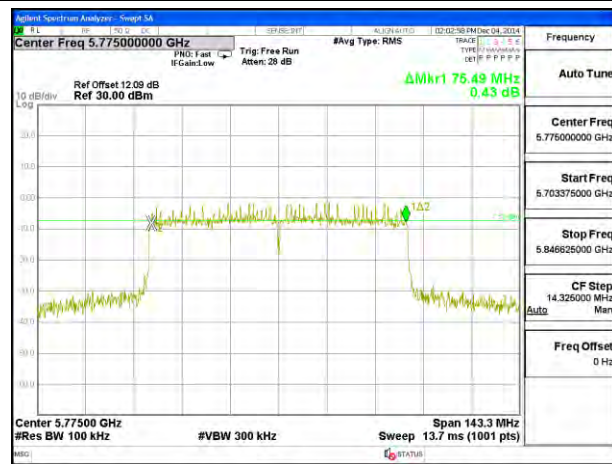


NOTE:

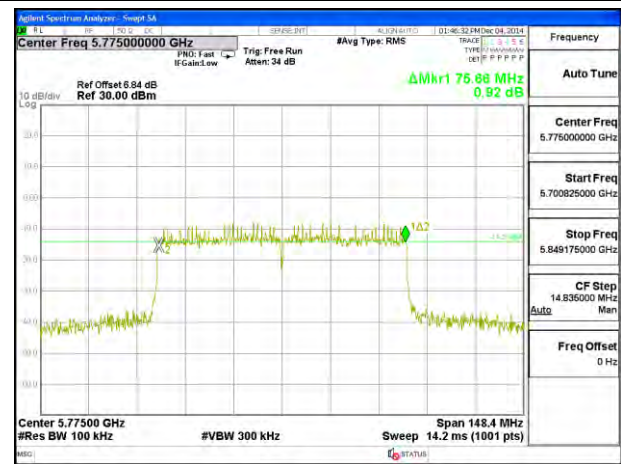
802.11ac HT80 5.8GHz HT40 TEST RESULT TABLE

Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	Minimum Limit (MHz)
5775	75.49	75.66	0.5

**CHAIN 0
 LOW CHANNEL**

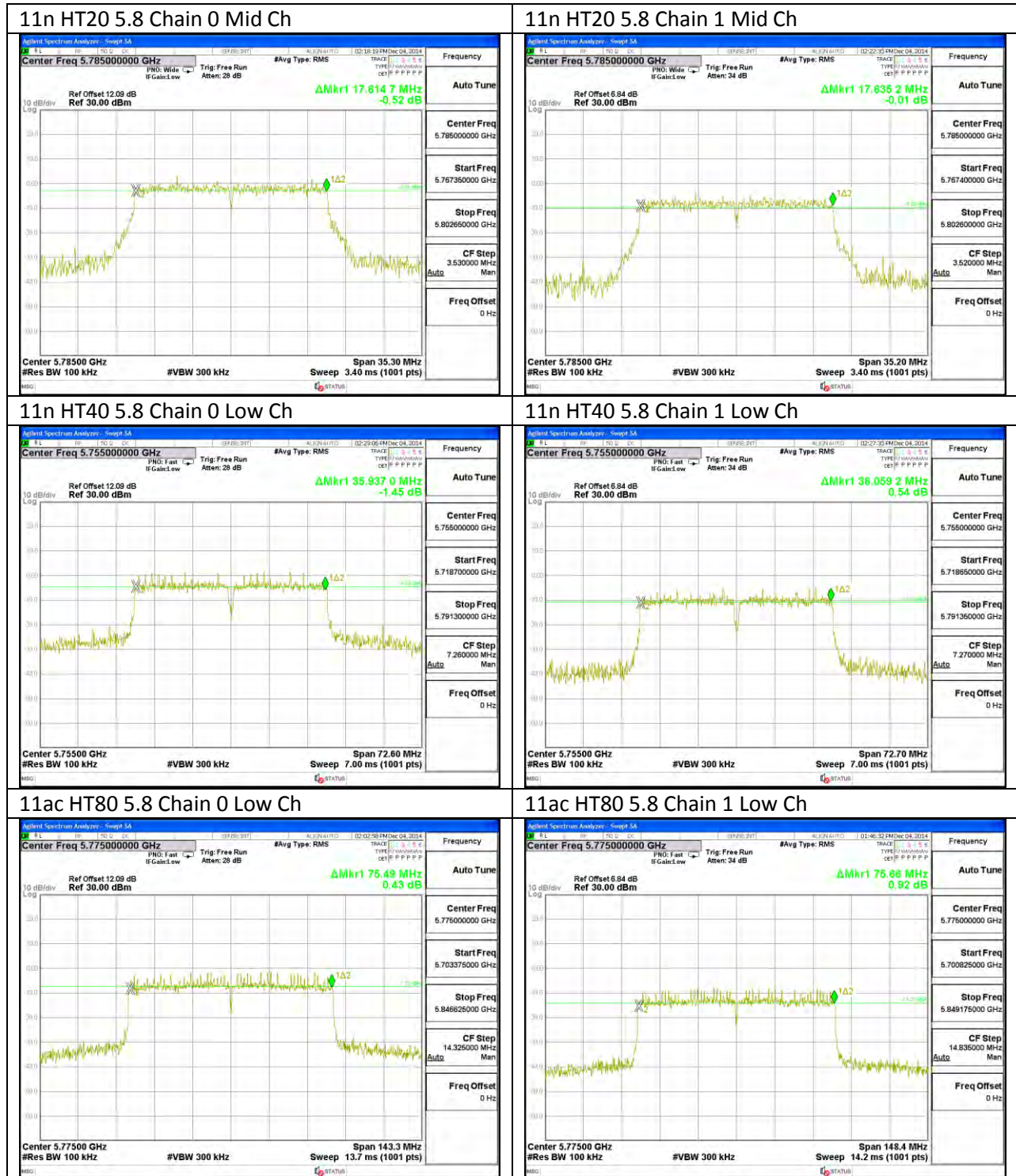


**CHAIN 1
 LOW CHANNEL**



NOTE:

11.1.2. 6 dB BANDWIDTH MID CH PLOTS



11.2. 26 dB BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

11.2.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5180	25.4	22.7
Mid	5200	25.9	28.4
High	5240	27.3	27.5

11.2.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5190	57.4	40.3
High	5230	58.1	40.5

11.2.3. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5210	104.5	106.0

11.2.4. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5745	36.8	22.6
Mid	5785	35.6	21.9
High	5825	36.3	27.3

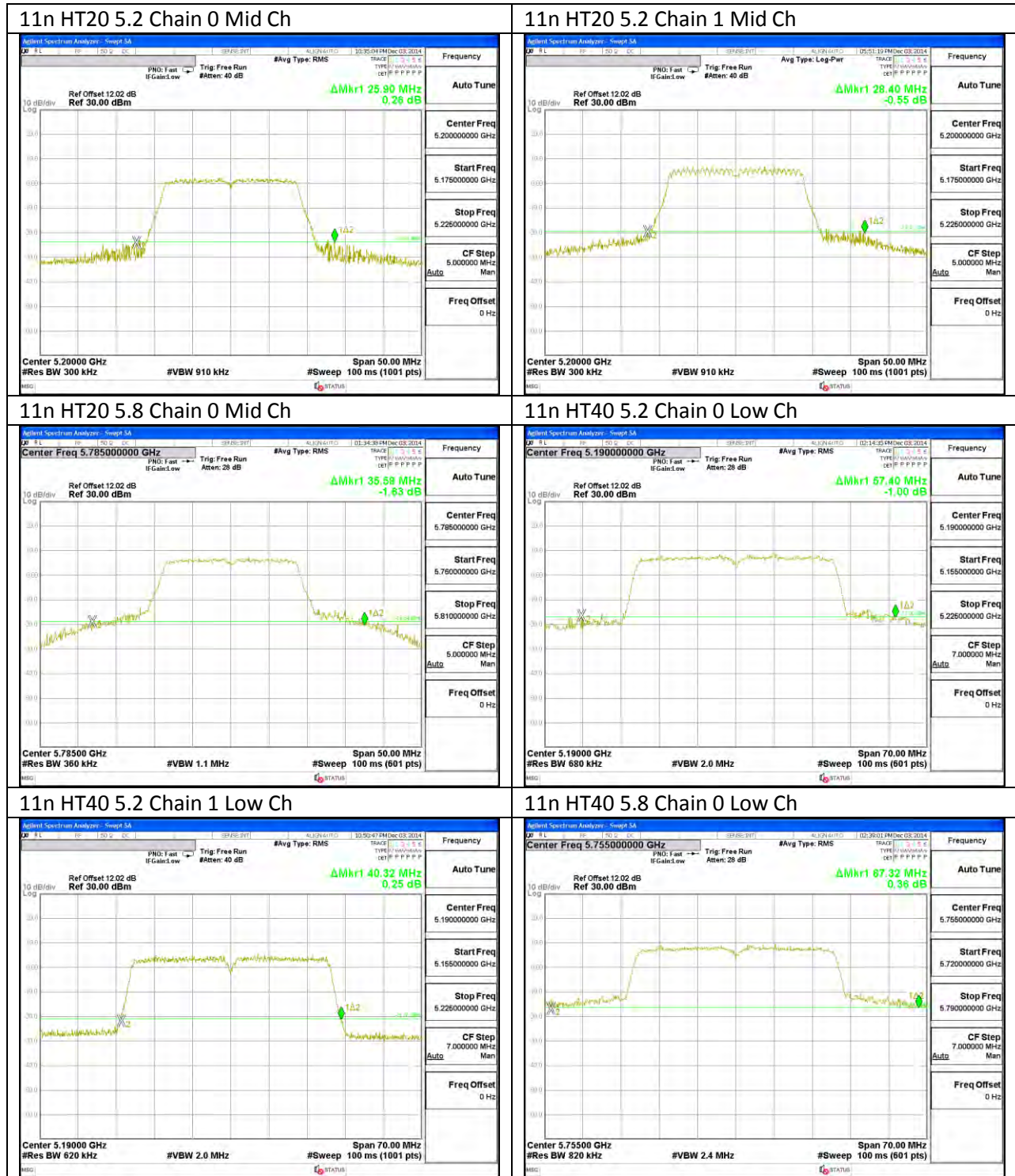
11.2.5. 802.11n HT40 MODE IN THE 5.8 GHz BAND

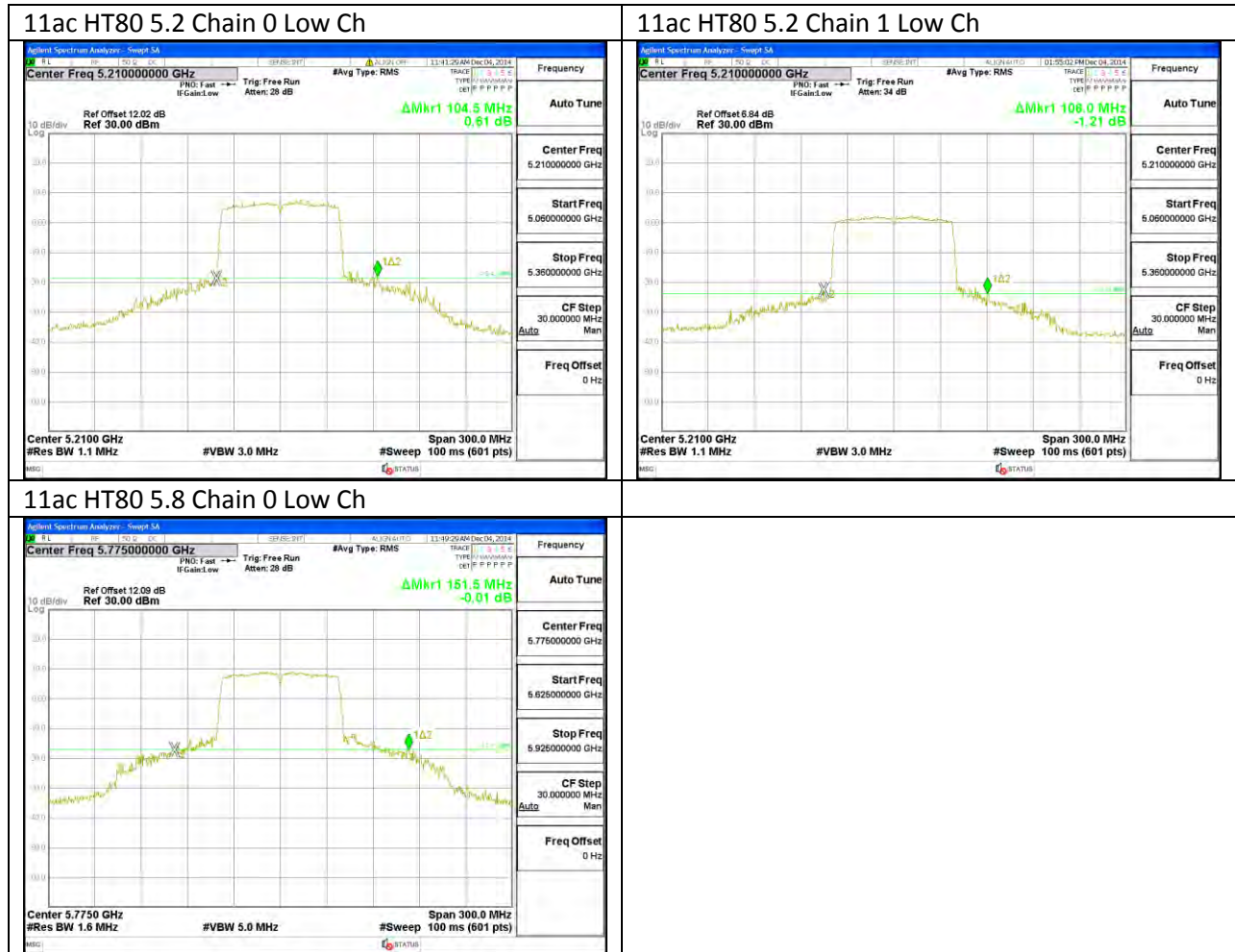
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5755	67.3	72.1
High	5795	92.0	65.9

11.2.6. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)
Low	5775	151.5	144.0

11.2.7. 26 dB BANDWIDTH PLOTS





11.3. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

RESULTS

11.3.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5180	18.0	17.7
Mid	5200	18.1	17.7
High	5240	18.1	17.7

11.3.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5190	36.6	36.3
High	5230	36.5	36.3

11.3.3. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5210	76.1	75.9

11.3.4. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5745	18.3	17.7
Mid	5785	18.4	17.7
High	5825	18.5	17.2

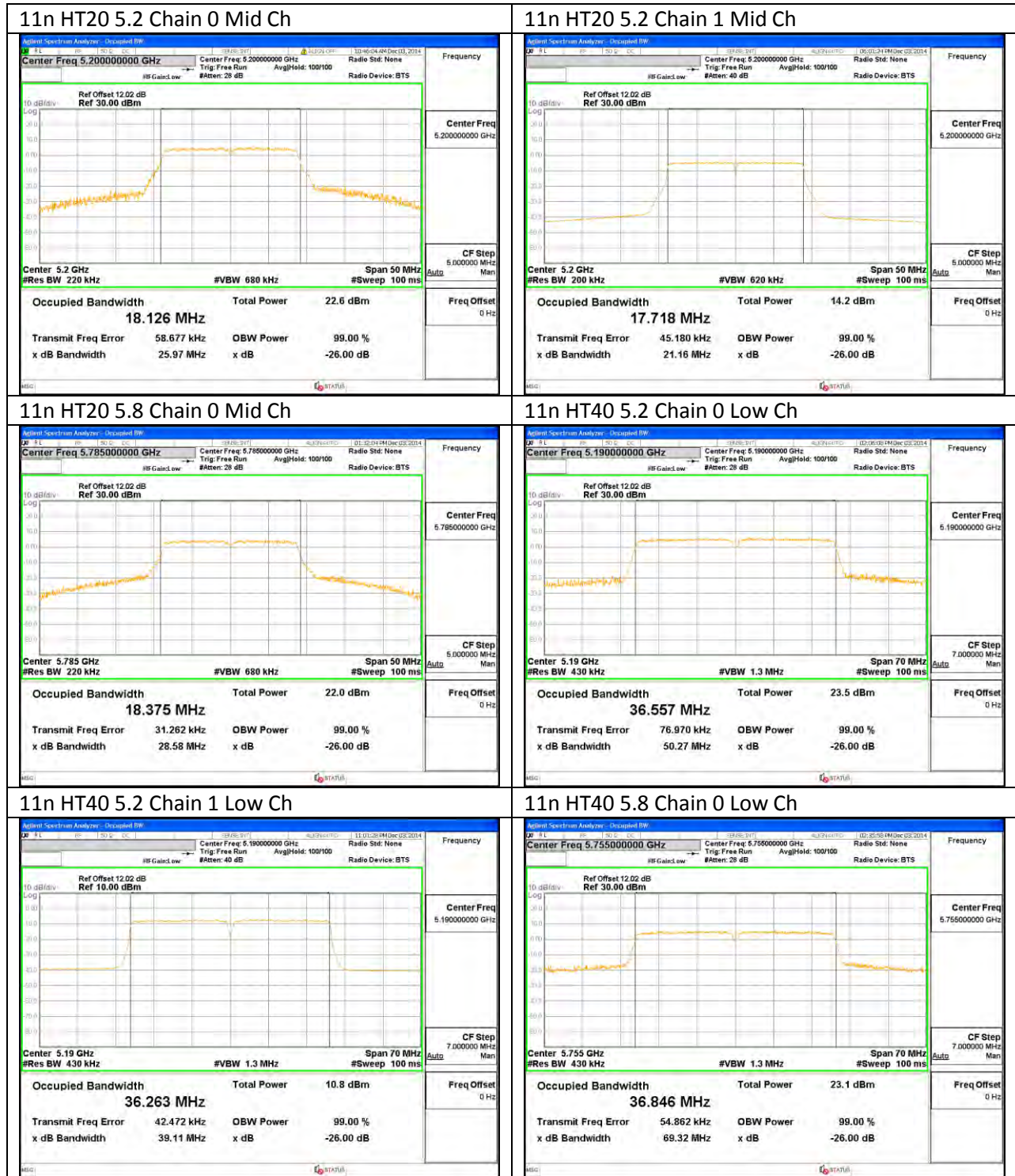
11.3.5. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5755	36.8	36.3
High	5795	36.9	36.3

11.3.6. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)
Low	5775	76.4	76.1

11.3.7. 99% BANDWIDTH PLOTS





11.4. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

11.4.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5180	10.80	10.80	13.81
Mid	5200	10.80	12.40	14.68
High	5240	10.80	12.50	14.74

11.4.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5190	11.40	12.50	15.00
High	5230	11.40	12.30	14.88

11.4.3. 802.11ac HT80 MODE IN THE 5.2 GHz BAND

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5210	11.20	11.00	14.11

11.4.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5745	10.50	9.60	13.08
Mid	5785	13.00	12.00	15.54
High	5825	13.00	12.00	15.54

11.4.2. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5755	10.80	9.60	13.25
High	5795	14.90	13.70	17.35

11.4.3. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Average Power Results

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Total Power (dBm)
Low	5775	12.30	11.30	14.84

11.5. OUTPUT POWER AND PPSD

LIMITS

FCC §15.407 (a) (1)

For the band 5.15–5.25 GHz, the maximum conducted output power over the frequency band 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 MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

IC RSS-210 A9.2 (1)

The maximum e.i.r.p. shall not exceed 200 mW or $10 + 10 \log_{10} B$, dBm, whichever power is less. B is the 99% emission bandwidth in MHz. The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

RESULTS

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is unequal among the chains. The directional gain is:

5.2

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
3.21	4.20	3.73

5.8

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
4.44	5.17	4.82

5.2

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
3.21	4.20	6.73

5.8

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
4.44	5.17	7.82

RESULTS

11.5.1. 802.11n HT20 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5180	25.42	18.04	6.73	6.73
Mid	5200	25.90	18.13	6.73	6.73
High	5240	27.33	18.11	6.73	6.73

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5180	23.27	22.56	15.83	15.83	10.27	10.00	3.27
Mid	5200	23.27	22.58	15.85	15.85	10.27	10.00	3.27
High	5240	23.27	22.58	15.85	15.85	10.27	10.00	3.27

Duty Cycle CF (dB)	0.31	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	10.80	10.80	14.12	15.83	-1.71
Mid	5200	10.80	12.40	14.99	15.85	-0.86
High	5240	10.80	12.50	15.05	15.85	-0.80

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5180	-0.45	-0.62	2.79	3.27	-0.48
Mid	5200	-1.08	-0.76	2.40	3.27	-0.87
High	5240	-1.31	-1.16	2.09	3.27	-1.18

11.5.2. 802.11n HT40 MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5190	57.40	36.56	6.73	6.73
High	5230	58.10	36.51	6.73	6.73

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5190	23.27	23.00	16.27	16.27	10.27	10.00	3.27
High	5230	23.27	23.00	16.27	16.27	10.27	10.00	3.27

Duty Cycle CF (dB)	1.07	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	10.10	10.85	14.57	16.27	-1.70
High	5230	10.05	10.30	14.26	16.27	-2.01

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5190	-4.13	-3.56	0.24	3.27	-3.03
High	5230	-4.31	-4.13	-0.14	3.27	-3.41

11.5.3. 802.11ac HT80 MODE IN THE 5.2 GHZ BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5210	104.50	75.90	6.73	6.73

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC EIRP Limit (dBm)	Max IC Power (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC eirp PSD Limit (dBm)	PPSD Limit (dBm)
Low	5210	23.27	23.00	16.27	16.27	10.27	10.00	3.27

Duty Cycle CF (dB)	1.84	Included in Calculations of Corr'd Power & PPSD
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Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5210	11.20	11.00	15.95	16.27	-0.32

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5210	-8.52	-8.63	-3.73	3.27	-7.00

11.5.1. 802.11n HT20 MODE IN THE 5.8 GHz BAND

	(MHz)	BW (MHz)	BW (MHz)	for Power (dBi)	for PPSD (dBi)
Low	5745	36.83	18.34	7.82	7.82
Mid	5785	35.58	18.38	7.82	7.82
High	5825	36.25	18.46	7.82	7.82

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5745	28.18	29.63	35.63	27.81	28.18	17.00	17.00
Mid	5785	28.18	29.64	35.64	27.82	28.18	17.00	17.00
High	5825	28.18	29.66	35.66	27.84	28.18	17.00	17.00

Duty Cycle CF (dB)	0.31	Included in Calculations of Corr'd Power & PPSD
---------------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	10.50	9.60	13.39	27.81	-14.42
Mid	5785	13.00	12.00	15.85	27.82	-11.97
High	5825	13.00	12.00	15.85	27.84	-11.99

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5745	1.58	0.43	4.36	17.00	-12.64
Mid	5785	2.59	1.84	5.55	17.00	-11.45
High	5825	2.47	1.09	5.15	17.00	-11.85

11.5.2. 802.11n HT40 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5755	67.3	36.85	7.82	7.82
High	5795	92.0	36.92	7.82	7.82

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5755	28.18	30.00	36.00	28.18	30.00	17.00	17.00
High	5795	28.18	30.00	36.00	28.18	30.00	17.00	17.00

Duty Cycle CF (dB)	1.07	Included in Calculations of Corr'd Power & PPSD
---------------------------	------	--

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	10.80	9.60	14.32	28.18	-13.86
High	5795	14.90	13.70	18.42	28.18	-9.76

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5755	-6.55	-5.35	-1.83	17.00	-18.83
High	5795	-5.67	-5.60	-1.56	17.00	-18.56

11.5.3. 802.11ac HT80 MODE IN THE 5.8 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5775	151.50	76.43	7.82	7.82

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5775	28.18	30.00	36.00	28.18	30.00	17.00	17.00

Duty Cycle CF (dB)	1.84	Included in Calculations of Corr'd Power & PPSD
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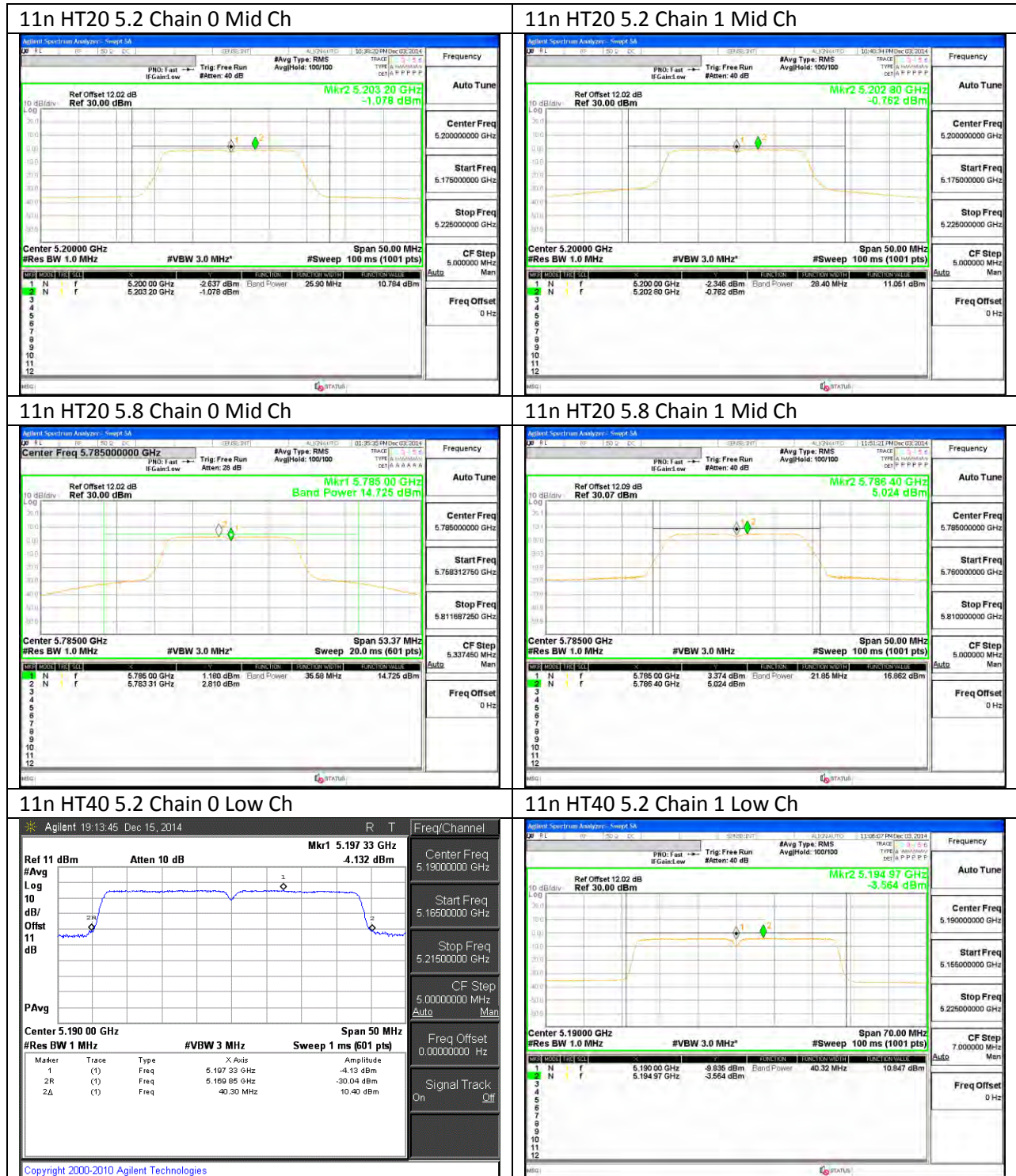
Output Power Results

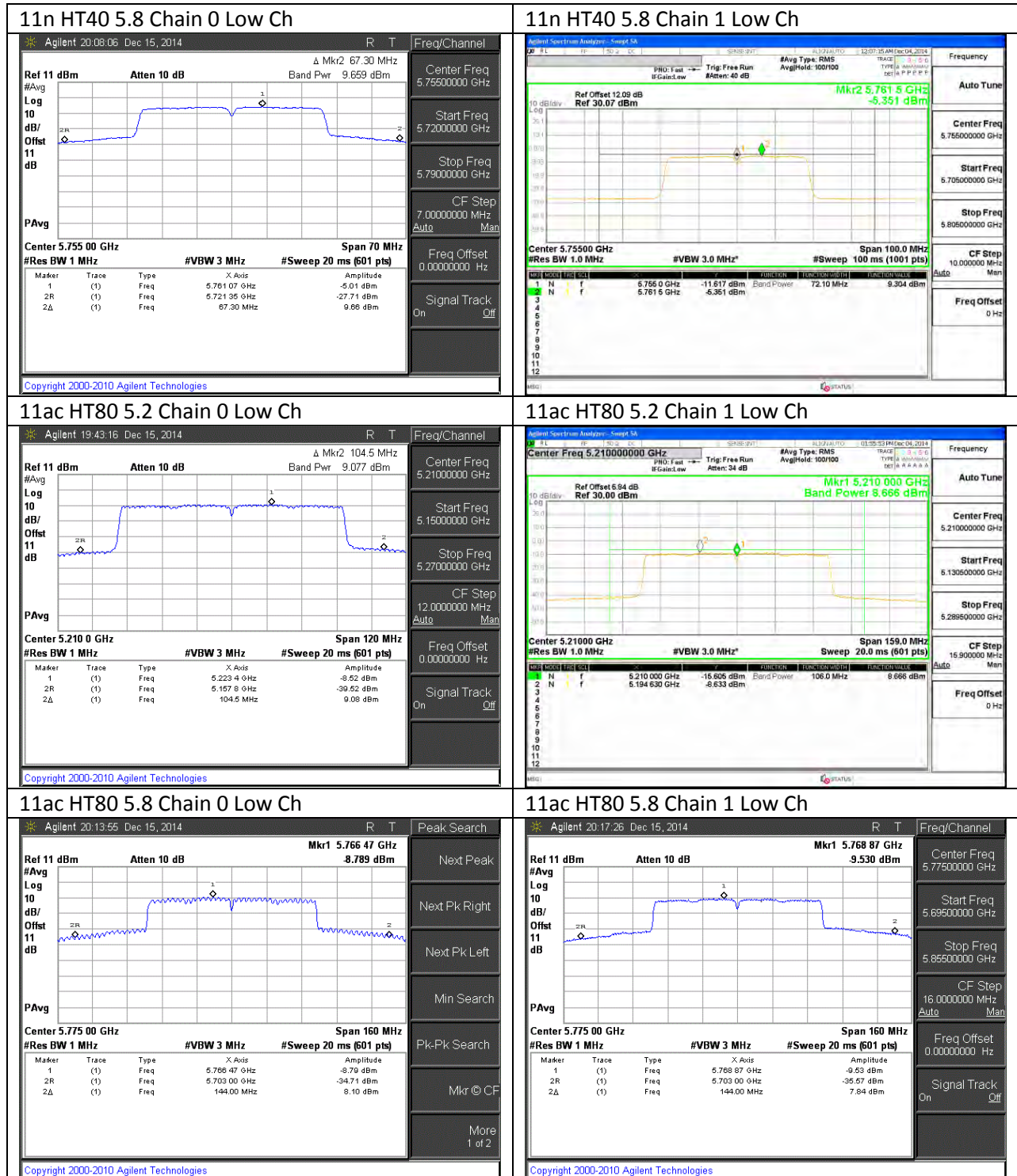
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5775	12.30	11.30	16.68	28.18	-11.50

PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm)	Chain 1 Meas PPSD (dBm)	Total Corr'd PPSD (dBm)	PPSD Limit (dBm)	PPSD Margin (dB)
Low	5775	-8.79	-9.53	-4.29	17.00	-21.29

11.5.4. OUTPUT POWER AND PPSD PLOTS





12. TRANSMITTER ABOVE 1 GHz SISO Chain 0

LIMITS

FCC §15.205 and §15.209

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 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

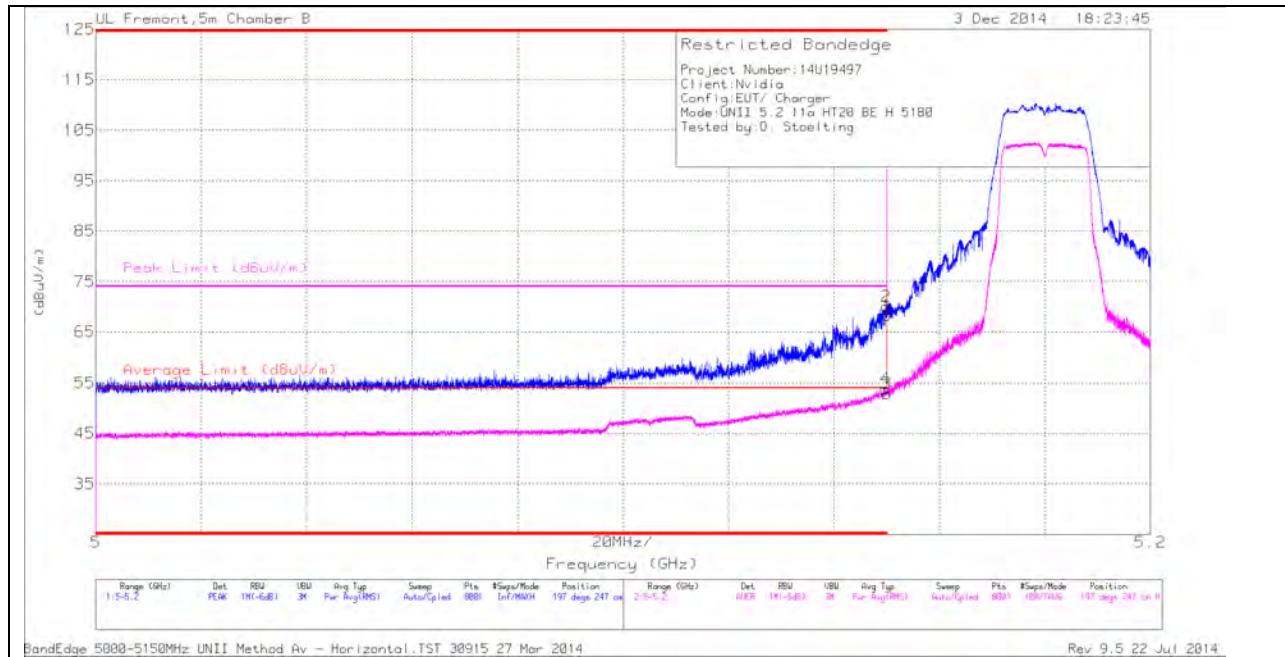
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

12.1. 5.2 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

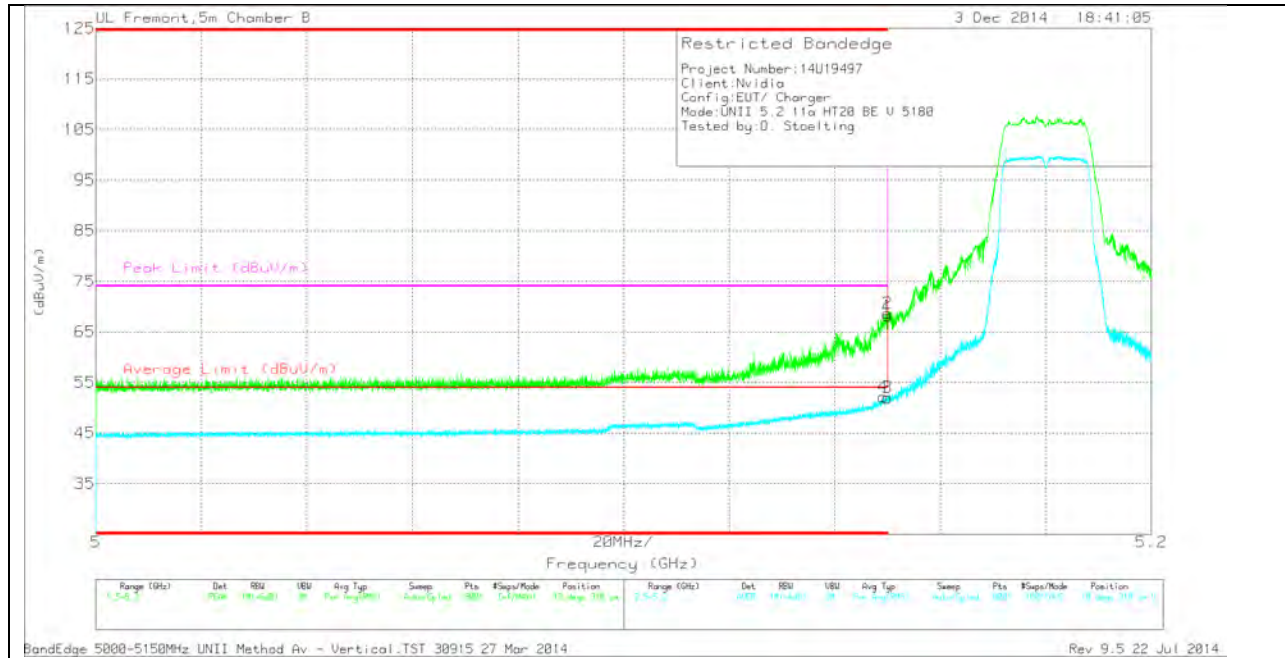
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/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	* 5.15	54.54	PK	34.3	-20.5	0	68.34	-	-	74	-5.66	197	247	H
2	* 5.15	56.28	PK	34.3	-20.5	0	70.08	-	-	74	-3.92	197	247	H
3	* 5.15	38.8	RMS	34.3	-20.5	.32	52.92	54	-1.08	-	-	197	247	H
4	* 5.15	39.82	RMS	34.3	-20.5	.32	53.94	54	-.06	-	-	197	247	H

VERTICAL PEAK AND AVERAGE PLOT

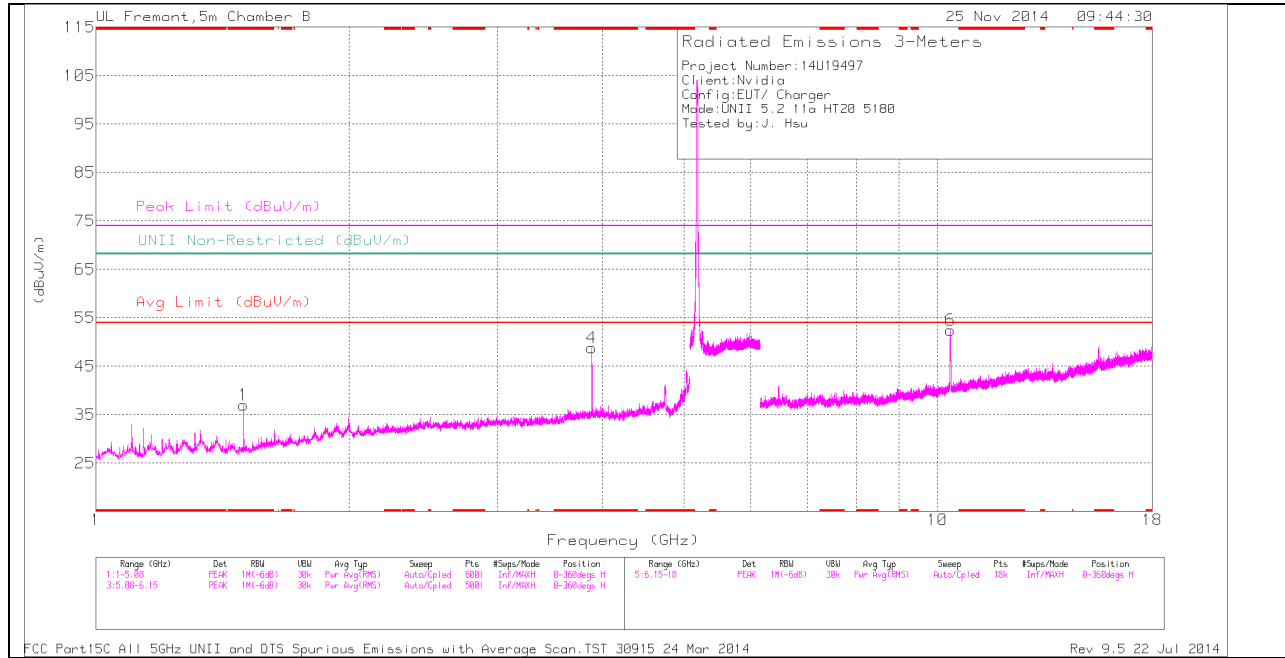


VERTICAL DATA

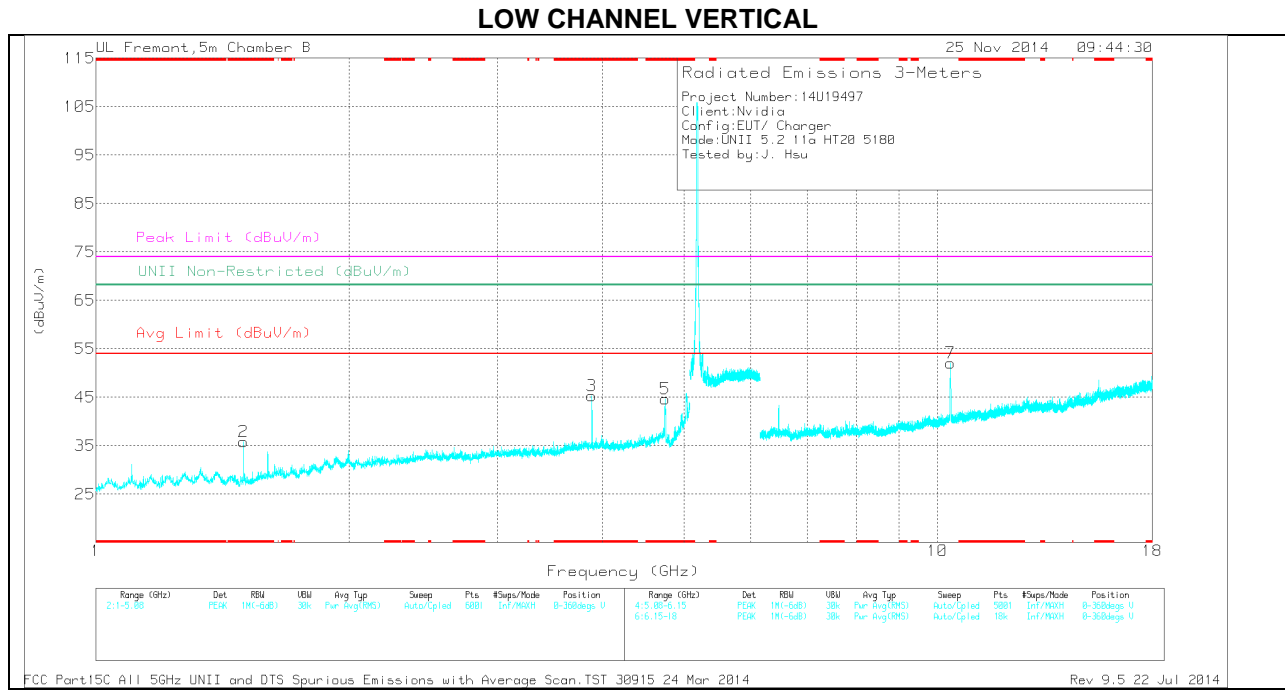
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	54.37	PK	34.3	-20.5	0	68.17	-	-	74	-5.83	10	318	V
2	* 5.15	54.83	PK	34.3	-20.5	0	68.63	-	-	74	-5.37	10	318	V
3	* 5.15	37.85	RMS	34.3	-20.5	.32	51.97	54	-2.03	-	-	10	318	V
4	* 5.149	38.09	RMS	34.3	-20.5	.32	52.21	54	-1.79	-	-	10	318	V

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.498	43.47	PK	27.9	-34.4	0	36.97	-	-	74	-37.03	-	-	0-360	199	H
4	* 3.885	46.46	PK	33.8	-31.5	0	48.76	-	-	74	-25.24	-	-	0-360	199	H
2	* 1.498	42.31	PK	27.9	-34.4	0	35.81	-	-	74	-38.19	-	-	0-360	100	V
3	* 3.885	43.02	PK	33.8	-31.5	0	45.32	-	-	74	-28.68	-	-	0-360	100	V
5	* 4.748	40.3	PK	34.2	-29.8	0	44.7	-	-	74	-29.3	-	-	0-360	199	V
6	10.359	38.61	PK	37.2	-23.4	0	52.41	-	-	-	-	68.2	-15.79	0-360	199	H
7	10.362	38.19	PK	37.3	-23.4	0	52.09	-	-	-	-	68.2	-16.11	0-360	199	V

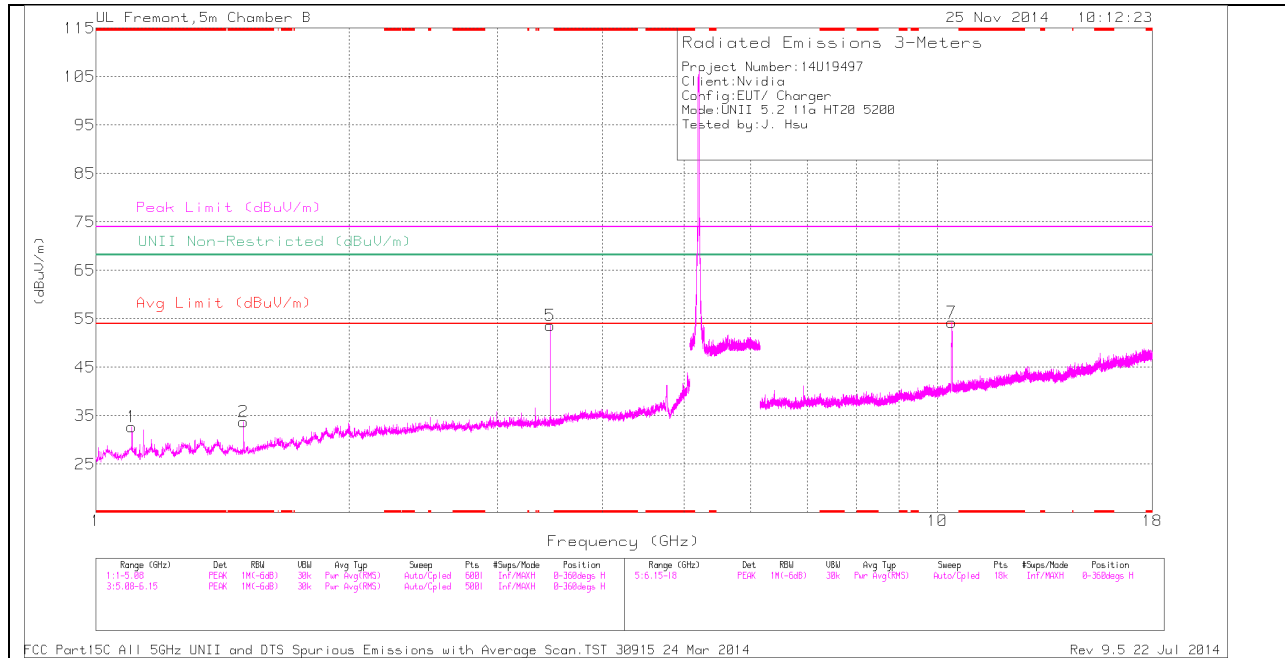
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.885	52.98	PK1	33.8	-31.5	0	55.28	-	-	74	-18.72	-	-	83	277	H
* 3.885	44.29	AD1	33.8	-31.5	.3	46.89	54	-7.11	-	-	-	-	83	277	H
10.358	53.47	PK1	37.2	-23.4	0	67.27	-	-	-	-	68.2	-93	35	201	H
10.359	38.72	AD1	37.2	-23.4	.3	52.82	-	-	-	-	-	-	35	201	H

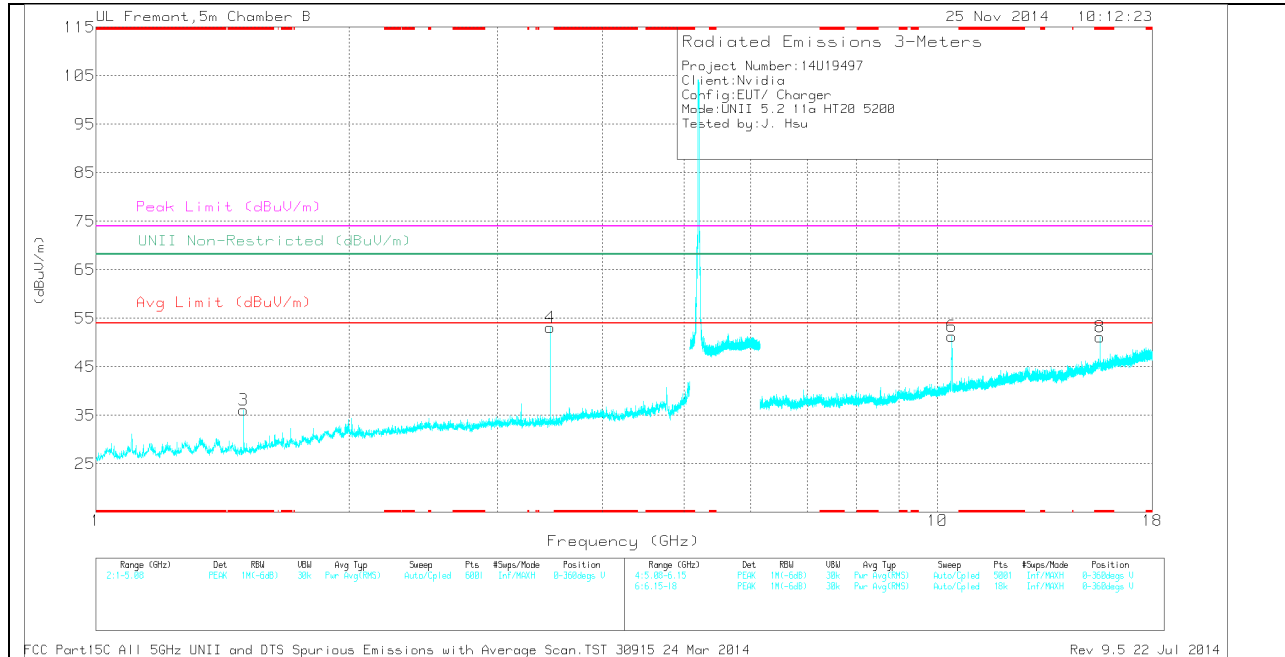
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Ftr/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	* 1.103	39.77	PK	27.4	-34.4	0	32.77	-	-	74	-41.23	-	-	0-360	199	H
2	* 1.498	40.25	PK	27.9	-34.4	0	33.75	-	-	74	-40.25	-	-	0-360	101	H
3	* 1.498	42.62	PK	27.9	-34.4	0	36.12	-	-	74	-37.88	-	-	0-360	199	V
8	* 15.603	30.73	PK	40.6	-20.2	0	51.13	-	-	74	-22.87	-	-	0-360	101	V
5	3.467	52.24	PK	32.8	-31.4	0	53.64	-	-	-	-	68.2	-14.56	0-360	101	H
4	3.467	51.61	PK	32.8	-31.3	0	53.11	-	-	-	-	68.2	-15.09	0-360	199	V
6	10.399	37.55	PK	37.3	-23.6	0	51.25	-	-	-	-	68.2	-16.95	0-360	101	V
7	10.401	40.61	PK	37.3	-23.6	0	54.31	-	-	-	-	68.2	-13.89	0-360	199	H

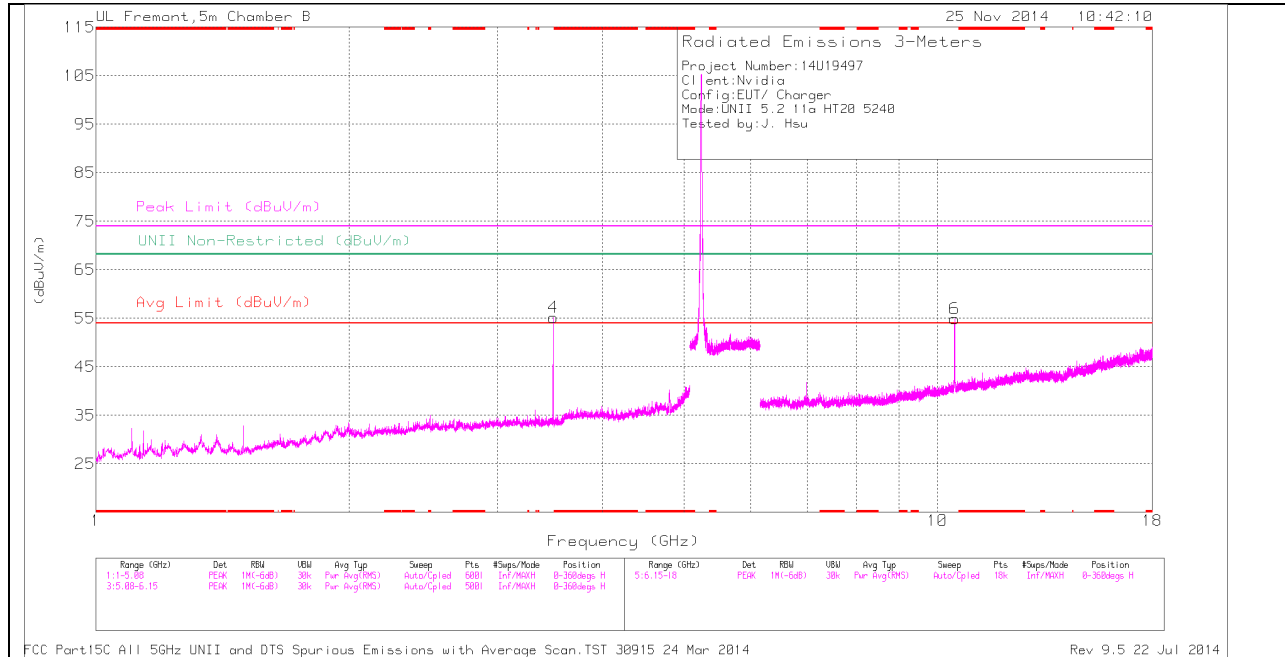
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/Ftr/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
3.467	56.06	PK1	32.8	-31.3	0	57.56	-	-	-	-	68.2	-10.64	19	246	H
3.467	45.36	AD1	32.8	-31.3	.3	47.16	-	-	-	-	-	-	19	246	H
10.398	52.1	PK1	37.3	-23.6	0	65.8	-	-	-	-	68.2	-2.4	1	230	H
10.4	38.1	AD1	37.3	-23.6	.3	52.1	-	-	-	-	-	-	1	230	H

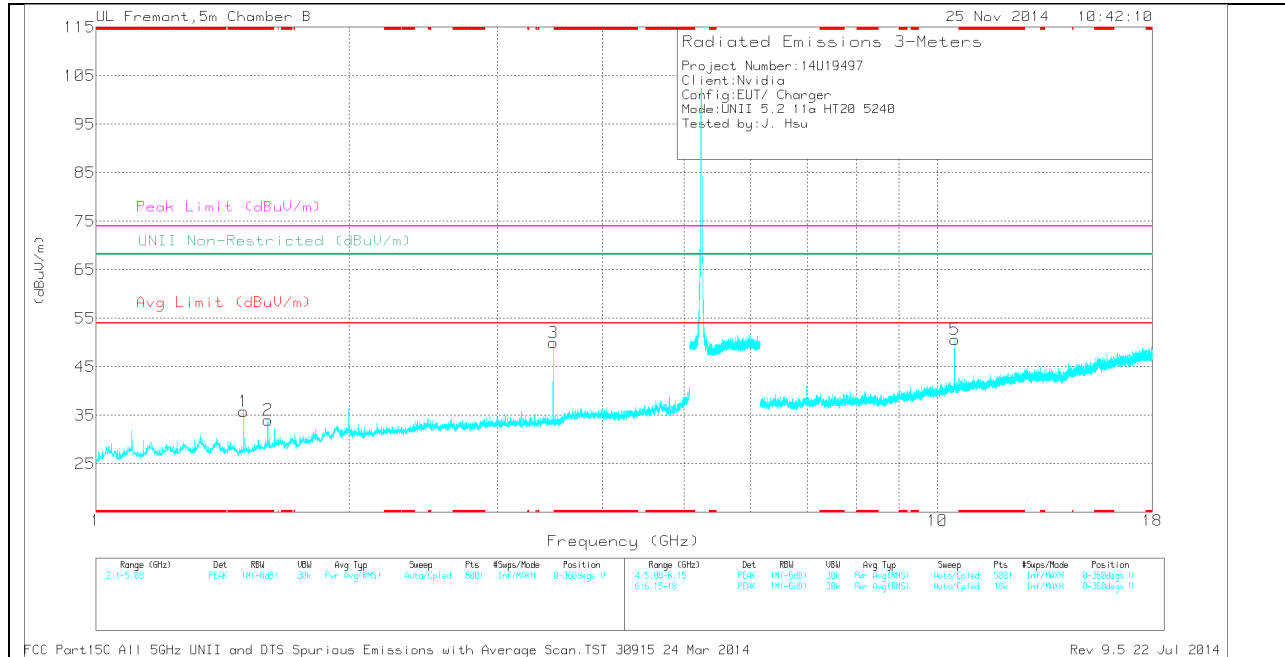
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HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.498	42.33	PK	27.9	-34.4	0	35.83	-	-	74	-38.17	-	-	0-360	199	V
2	* 1.6	38.7	PK	28.5	-33.2	0	34	-	-	74	-40	-	-	0-360	101	V
4	3.494	53.95	PK	32.8	-31.6	0	55.15	-	-	-	-	68.2	-13.05	0-360	101	H
3	3.494	48.84	PK	32.8	-31.6	0	50.04	-	-	-	-	68.2	-18.16	0-360	101	V
6	10.479	41.62	PK	37.4	-24.1	0	54.92	-	-	-	-	68.2	-13.28	0-360	199	H
5	10.48	37.36	PK	37.4	-24.1	0	50.66	-	-	-	-	68.2	-17.54	0-360	101	V

PK - Peak detector

RADIATED EMISSIONS

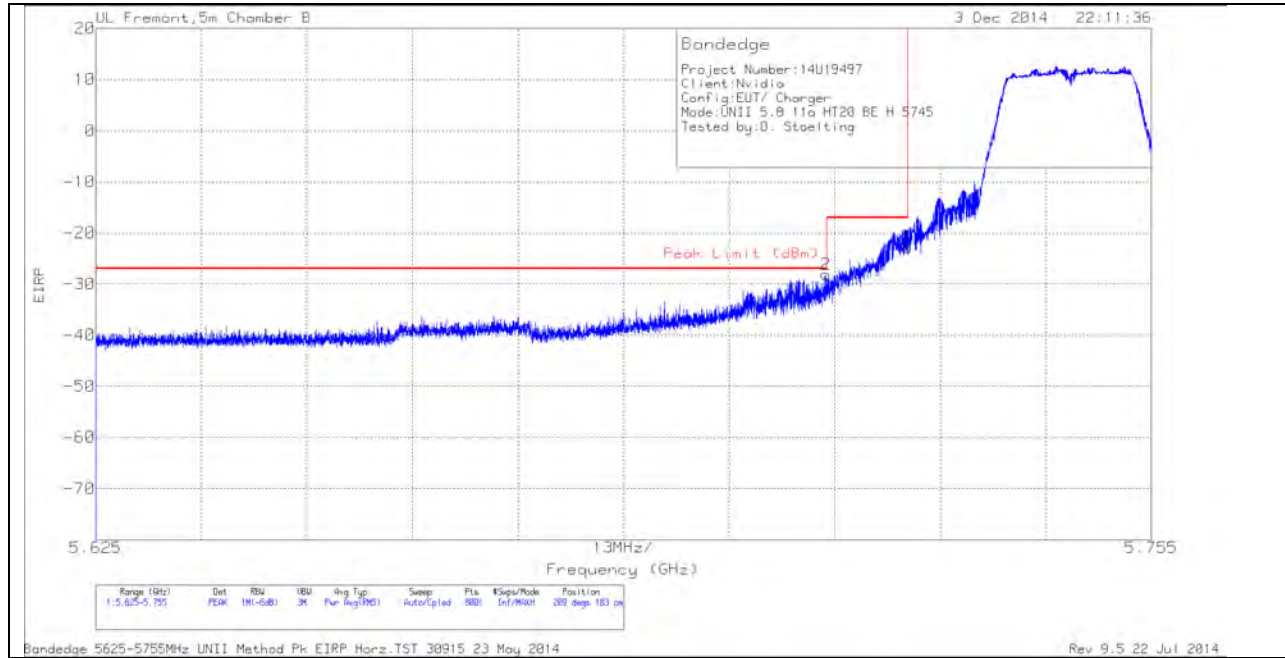
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3.493	57.21	PK1	32.8	-31.6	0	58.41	-	-	-	-	68.2	-9.79	14	243	H
3.493	45.98	AD1	32.8	-31.6	.3	47.48	-	-	-	-	-	-	14	243	H
10.479	52.35	PK1	37.4	-24.1	0	65.65	-	-	-	-	68.2	-2.55	18	251	H
10.48	38.85	AD1	37.4	-24.1	.3	52.45	-	-	-	-	-	-	18	251	H

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12.2. 5.8 GHz

12.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

HORIZONTAL PEAK AND AVERAGE PLOT

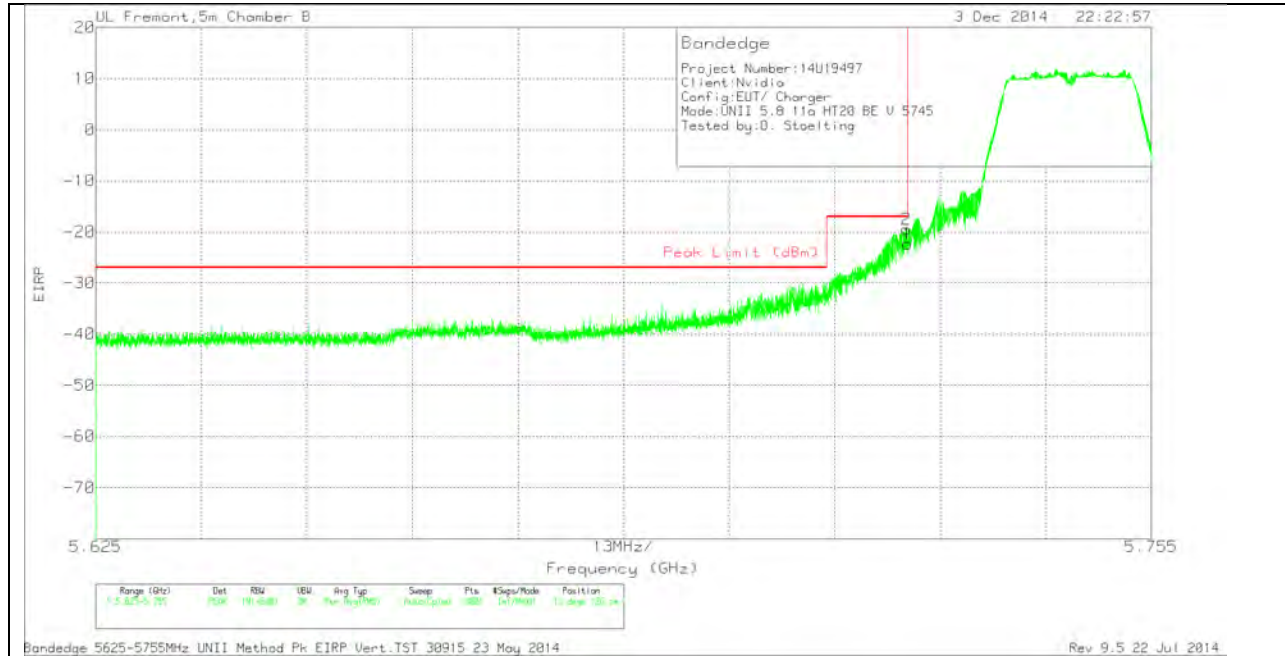


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-54.31	PK	34.5	-20.1	11.8	-28.11	-27	-1.11	209	183	H
1	5.725	-49.13	PK	34.6	-20.1	11.8	-22.83	-17	-5.83	209	183	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



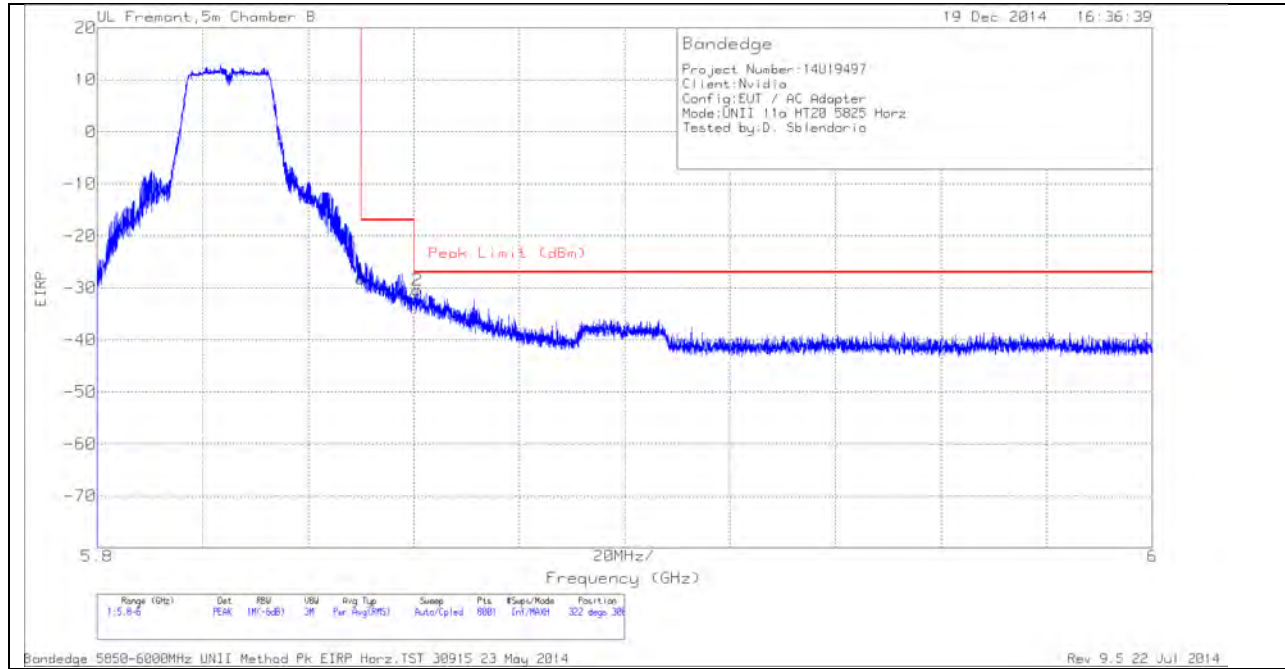
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	-48.65	PK	34.6	-20.1	11.8	0	-22.35	-17	-5.35	13	126	V
2	5.725	-45.77	PK	34.6	-20.1	11.8	0	-19.47	-17	-2.47	13	126	V

PK - Peak detector

AUTHORIZED BANDEGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

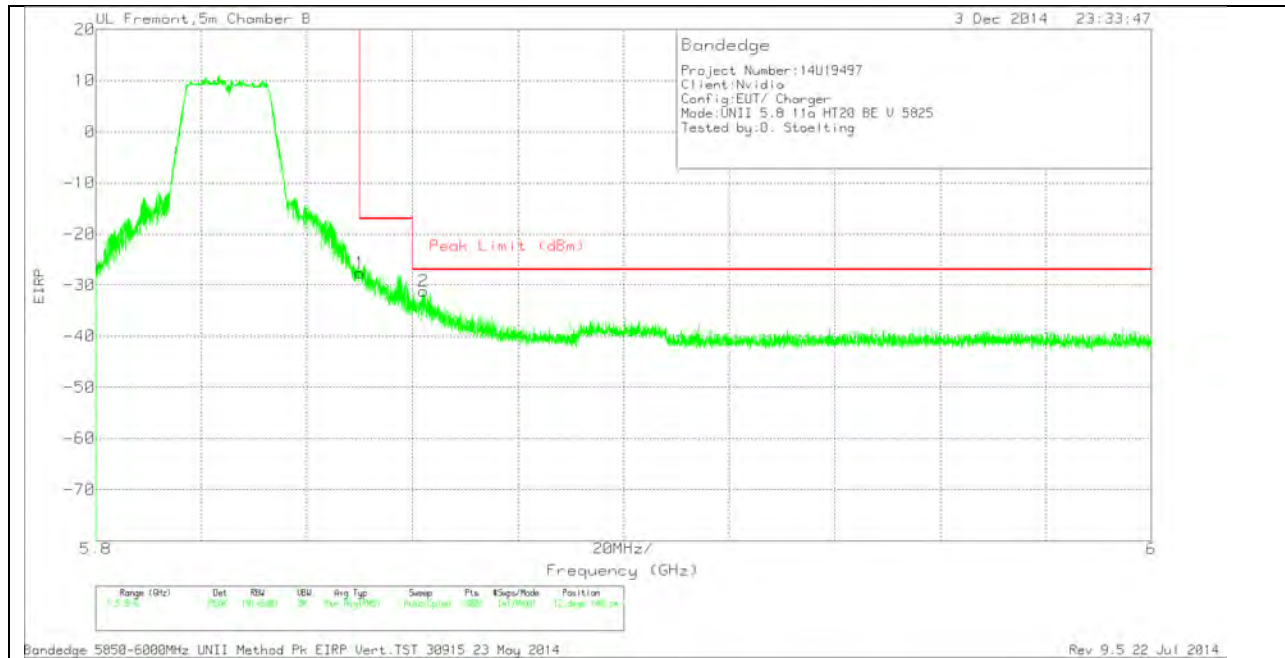


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/F ltr/Pad (dB)	Conversion Factor (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-54.96	PK	34.8	-19.9	11.8	-28.26	-17	-11.26	322	300	H
2	5.861	-57.15	PK	34.8	-19.9	11.8	-30.45	-27	-3.45	322	300	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

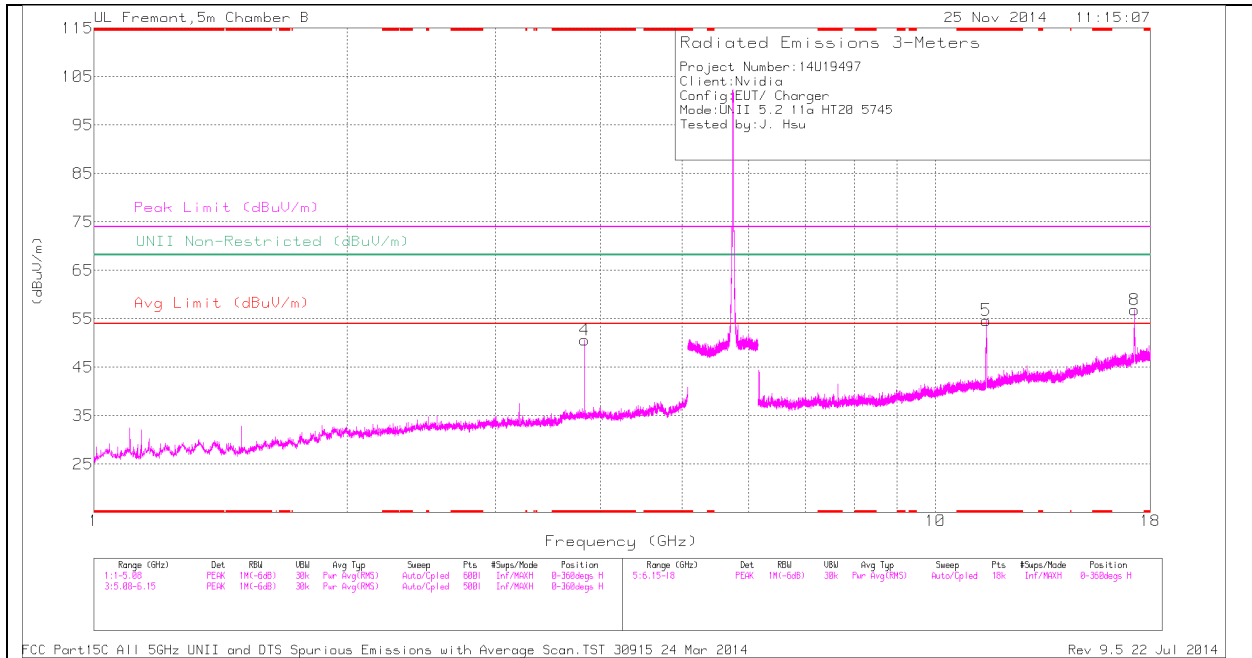


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-54.34	PK	34.8	-19.9	11.8	0	-27.64	-17	-10.64	12	140	V
2	5.862	-57.86	PK	34.8	-19.9	11.8	0	-31.16	-27	-4.16	12	140	V

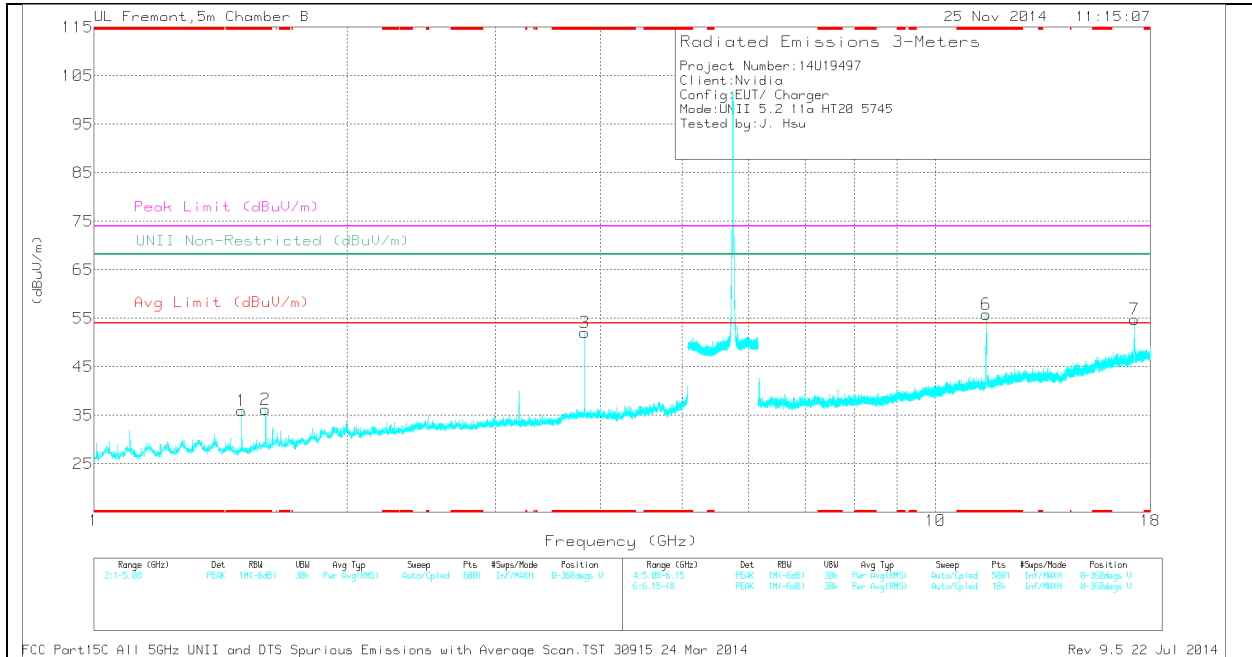
PK - Peak detector

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.83	48.2	PK	33.7	-31.3	0	50.6	-	-	74	-23.4	-	-	0-360	101	H
1	* 1.498	42.48	PK	27.9	-34.4	0	35.98	-	-	74	-38.02	-	-	0-360	199	V
2	* 1.6	40.9	PK	28.5	-33.2	0	36.2	-	-	74	-37.8	-	-	0-360	101	V
3	* 3.83	49.66	PK	33.7	-31.3	0	52.06	-	-	74	-21.94	-	-	0-360	199	V
5	* 11.493	39.62	PK	38	-22.9	0	54.72	-	-	74	-19.28	-	-	0-360	101	H
6	* 11.489	40.7	PK	38	-22.9	0	55.8	-	-	74	-18.2	-	-	0-360	101	V
8	17.232	35.17	PK	41.5	-19.8	0	56.87	-	-	-	-	68.2	-11.33	0-360	101	H
7	17.233	33.14	PK	41.5	-19.8	0	54.84	-	-	-	-	68.2	-13.36	0-360	101	V

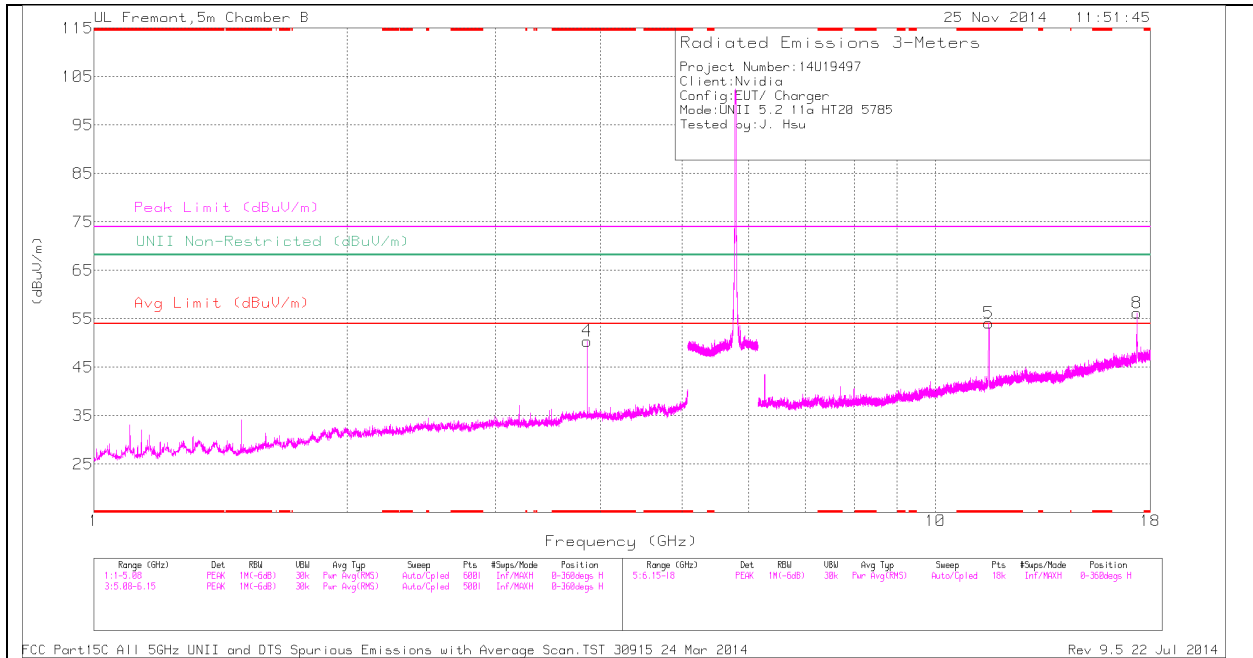
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.83	51.6	PK1	33.7	-31.3	0	54	-	-	74	-20	-	-	51	233	V
* 3.83	40.87	AD1	33.7	-31.3	.3	43.57	54	-10.43	-	-	-	-	51	233	V
* 11.492	48.17	PK1	38	-22.9	0	63.27	-	-	74	-10.73	-	-	17	108	V
* 11.491	37.36	AD1	38	-22.9	.3	52.76	54	-1.24	-	-	-	-	17	108	V
17.236	42.28	PK1	41.5	-19.7	0	64.08	-	-	-	-	68.2	-4.12	8	107	H
17.236	30.74	AD1	41.5	-19.7	.3	52.84	-	-	-	-	-	-	8	107	H

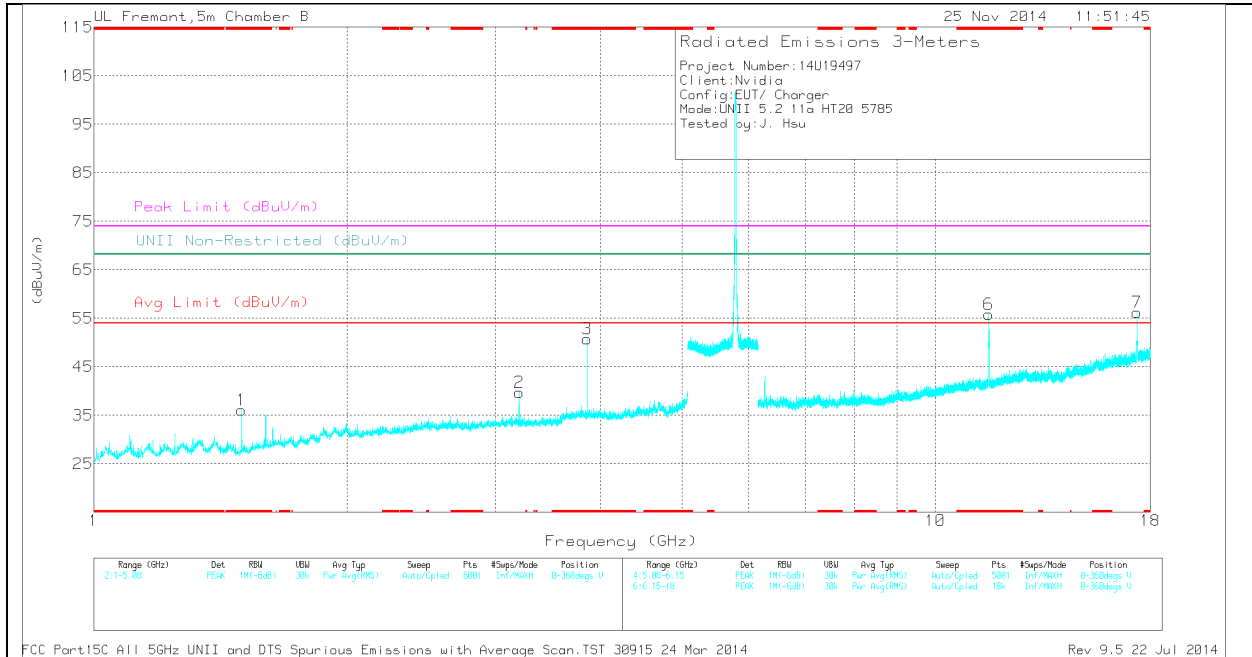
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/ Ftr/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	* 3.857	48.24	PK	33.7	-31.5	0	50.44	-	-	74	-23.56	-	-	0-360	101	H
1	* 1.498	42.56	PK	27.9	-34.4	0	36.06	-	-	74	-37.94	-	-	0-360	101	V
3	* 3.857	48.61	PK	33.7	-31.5	0	50.81	-	-	74	-23.19	-	-	0-360	199	V
5	* 11.572	38.41	PK	38.1	-22.4	0	54.11	-	-	74	-19.89	-	-	0-360	200	H
6	* 11.572	39.97	PK	38.1	-22.3	0	55.77	-	-	74	-18.23	-	-	0-360	200	V
2	3.2	38.64	PK	32.8	-31.7	0	39.74	-	-	-	-	68.2	-28.46	0-360	199	V
8	17.351	34.71	PK	41.6	-20.1	0	56.21	-	-	-	-	68.2	-11.99	0-360	200	H
7	17.353	34.67	PK	41.6	-20.1	0	56.17	-	-	-	-	68.2	-12.03	0-360	200	V

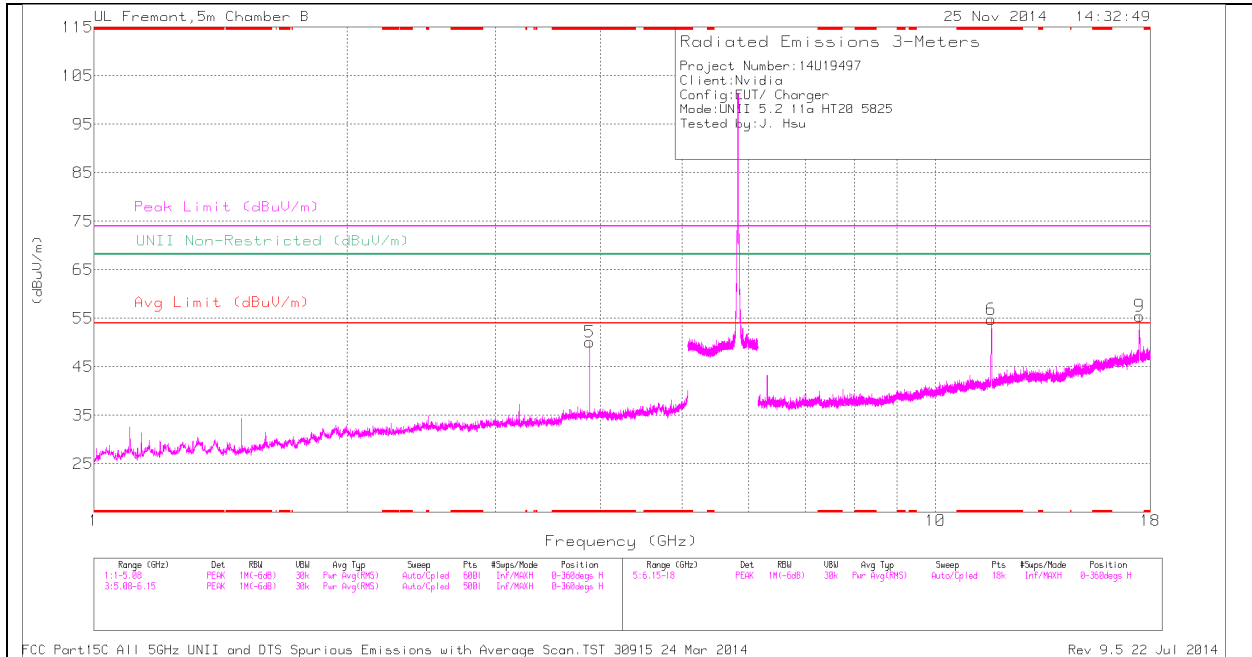
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/ Ftr/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
* 3.857	51.74	PK1	33.7	-31.5	0	53.94	-	-	74	-20.06	-	-	177	206	V
* 3.857	44.78	AD1	33.7	-31.5	.3	47.28	54	-6.72	-	-	-	-	177	206	V
* 11.576	47.91	PK1	38.1	-22.5	0	63.51	-	-	74	-10.49	-	-	333	280	V
* 11.571	36.69	AD1	38.1	-22.3	.3	52.79	54	-1.21	-	-	-	-	333	280	V

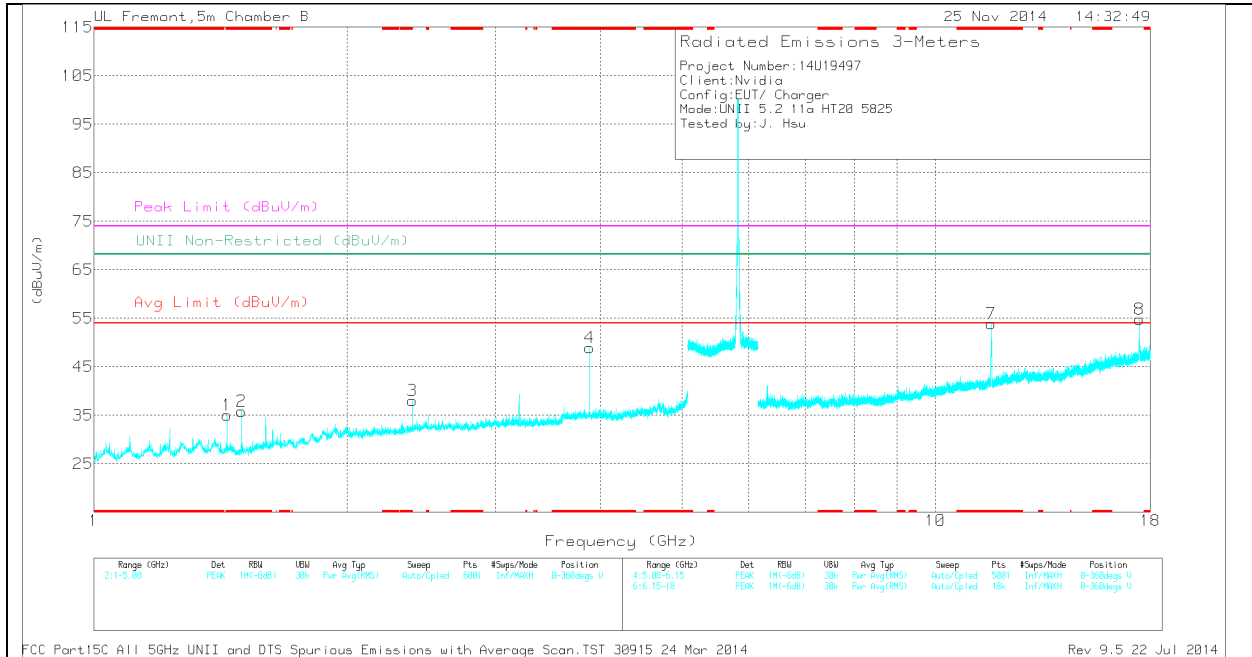
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HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.883	47.82	PK	33.8	-31.5	0	50.12	-	-	74	-23.88	-	-	0-360	200	H
1	* 1.439	40.9	PK	28.3	-34.2	0	35	-	-	74	-39	-	-	0-360	199	V
2	* 1.498	42.35	PK	27.9	-34.4	0	35.85	-	-	74	-38.15	-	-	0-360	100	V
4	* 3.883	46.65	PK	33.8	-31.5	0	48.95	-	-	74	-25.05	-	-	0-360	199	V
6	* 11.653	39.74	PK	38.2	-23.1	0	54.84	-	-	74	-19.16	-	-	0-360	101	H
7	* 11.651	38.89	PK	38.1	-23.1	0	53.89	-	-	74	-20.11	-	-	0-360	101	V
3	2.391	38.63	PK	32.1	-32.7	0	38.03	-	-	-	-	68.2	-30.17	0-360	100	V
9	17.478	33.7	PK	41.7	-19.9	0	55.5	-	-	-	-	68.2	-12.7	0-360	101	H
8	17.479	32.95	PK	41.7	-19.9	0	54.75	-	-	-	-	68.2	-13.45	0-360	199	V

PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.883	52.11	PK1	33.8	-31.5	0	54.41	-	-	74	-19.59	-	-	358	272	H
* 3.883	42.37	AD1	33.8	-31.5	.3	44.97	54	-9.03	-	-	-	-	358	272	H
* 11.648	49.28	PK1	38.1	-23	0	64.38	-	-	74	-9.62	-	-	360	116	H
* 11.648	36.44	AD1	38.1	-23	.3	51.84	54	-2.16	-	-	-	-	360	116	H

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13. TRANSMITTER ABOVE 1 GHz SISO Chain 1

LIMITS

FCC §15.205 and §15.209

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 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

The spectrum from 1GHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

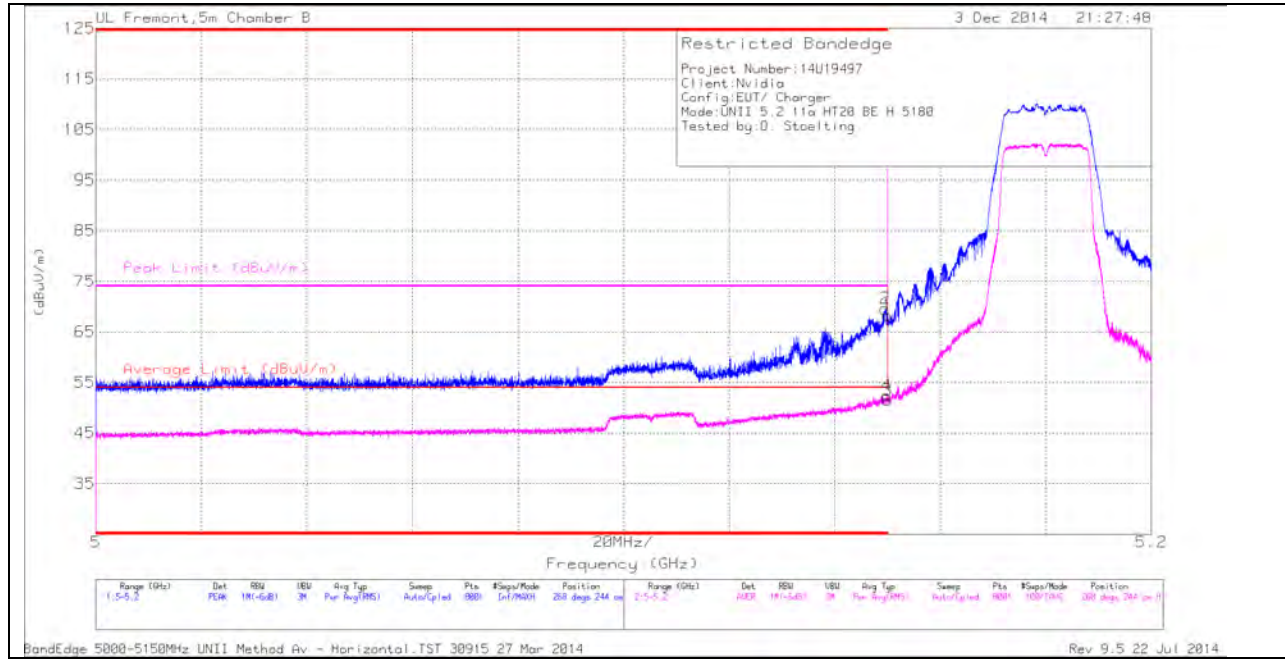
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

13.1. 5.2 GHz

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

RESTRICTED BANDEDGE (LOW CHANNEL)

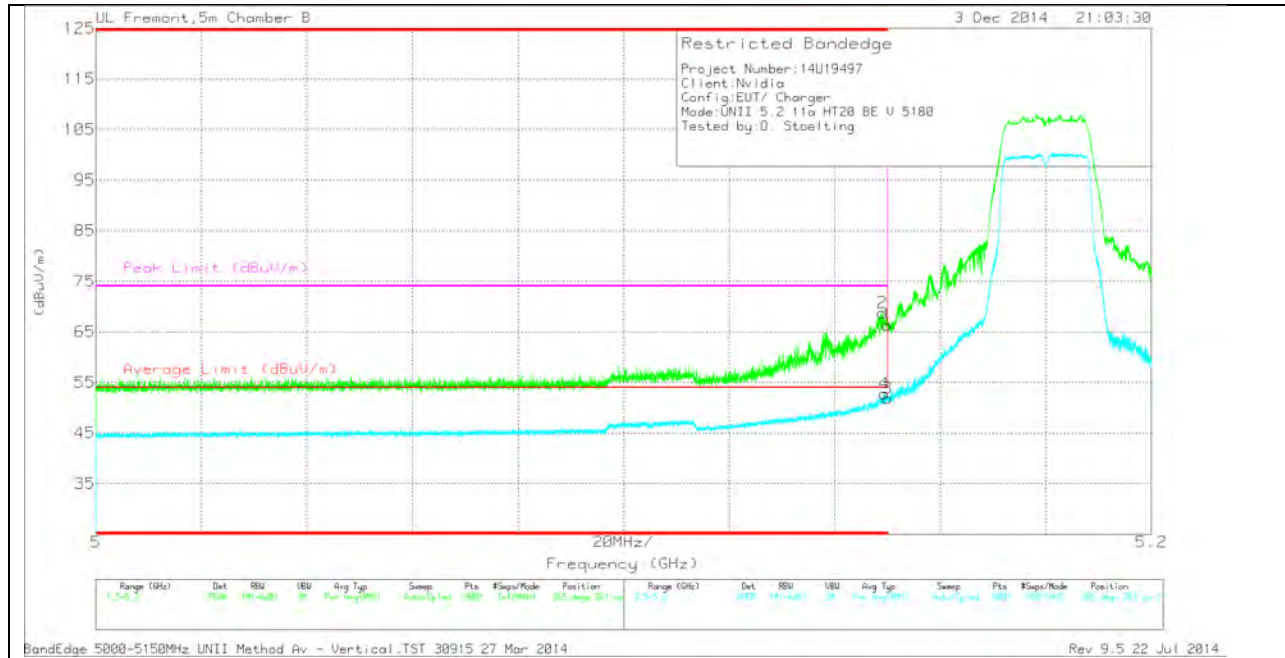
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fit r/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	* 5.15	54.44	PK	34.3	-20.5	0	68.24	-	-	74	-5.76	268	244	H
2	* 5.15	55.8	PK	34.3	-20.5	0	69.6	-	-	74	-4.4	268	244	H
3	* 5.15	37.37	RMS	34.3	-20.5	.32	51.49	54	-2.51	-	-	268	244	H
4	* 5.15	38.33	RMS	34.3	-20.5	.32	52.45	54	-1.55	-	-	268	244	H

VERTICAL PEAK AND AVERAGE PLOT

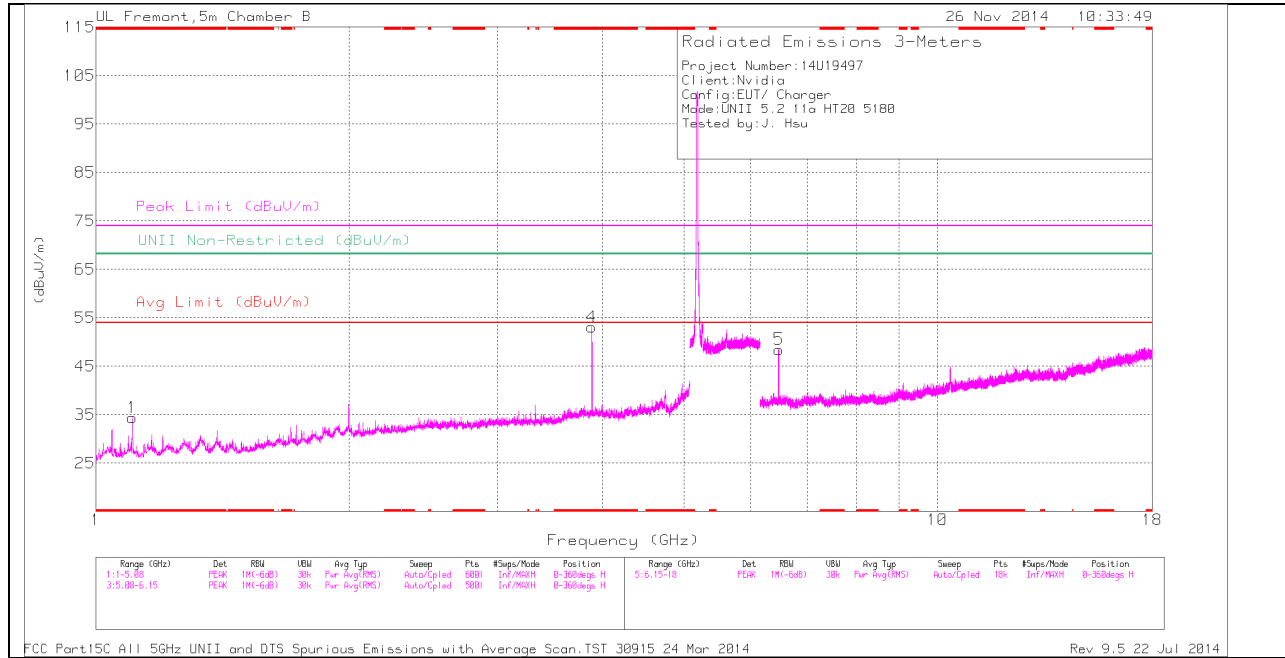


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fitter/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
2	* 5.149	54.98	PK	34.3	-20.5	0	68.78	-	-	74	-5.22	265	261	V
4	* 5.149	38.62	RMS	34.3	-20.5	.32	52.74	54	-1.26	-	-	265	261	V
1	* 5.15	52.57	PK	34.3	-20.5	0	66.37	-	-	74	-7.63	265	261	V
3	* 5.15	37.81	RMS	34.3	-20.5	.32	51.93	54	-2.07	-	-	265	261	V

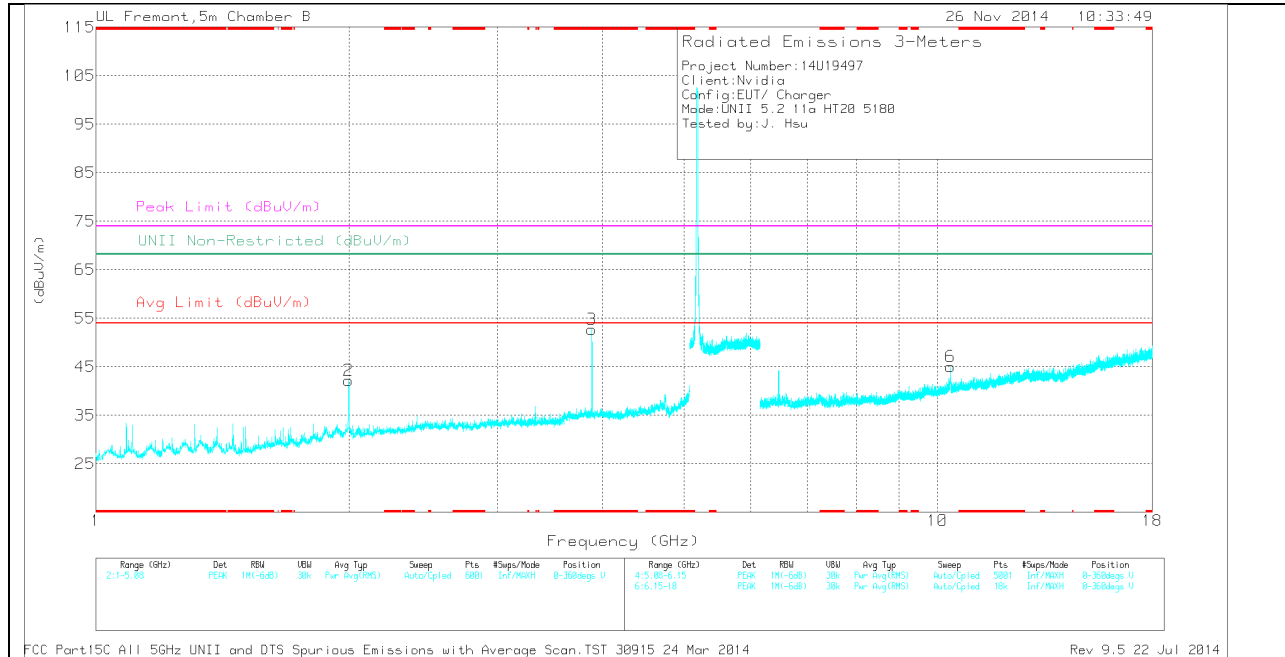
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.105	41.38	PK	27.4	-34.4	0	34.38	-	-	74	-39.62	-	-	0-360	199	H
4	* 3.885	50.85	PK	33.8	-31.5	0	53.15	-	-	74	-20.85	-	-	0-360	99	H
3	* 3.885	50.36	PK	33.8	-31.5	0	52.66	-	-	74	-21.34	-	-	0-360	199	V
2	1.997	43.96	PK	31.3	-33.1	0	42.16	-	-	-	-	68.2	-26.04	0-360	199	V
5	6.475	42.39	PK	35.6	-29.5	0	48.49	-	-	-	-	68.2	-19.71	0-360	199	H
6	10.358	31.21	PK	37.2	-23.4	0	45.01	-	-	-	-	68.2	-23.19	0-360	101	V

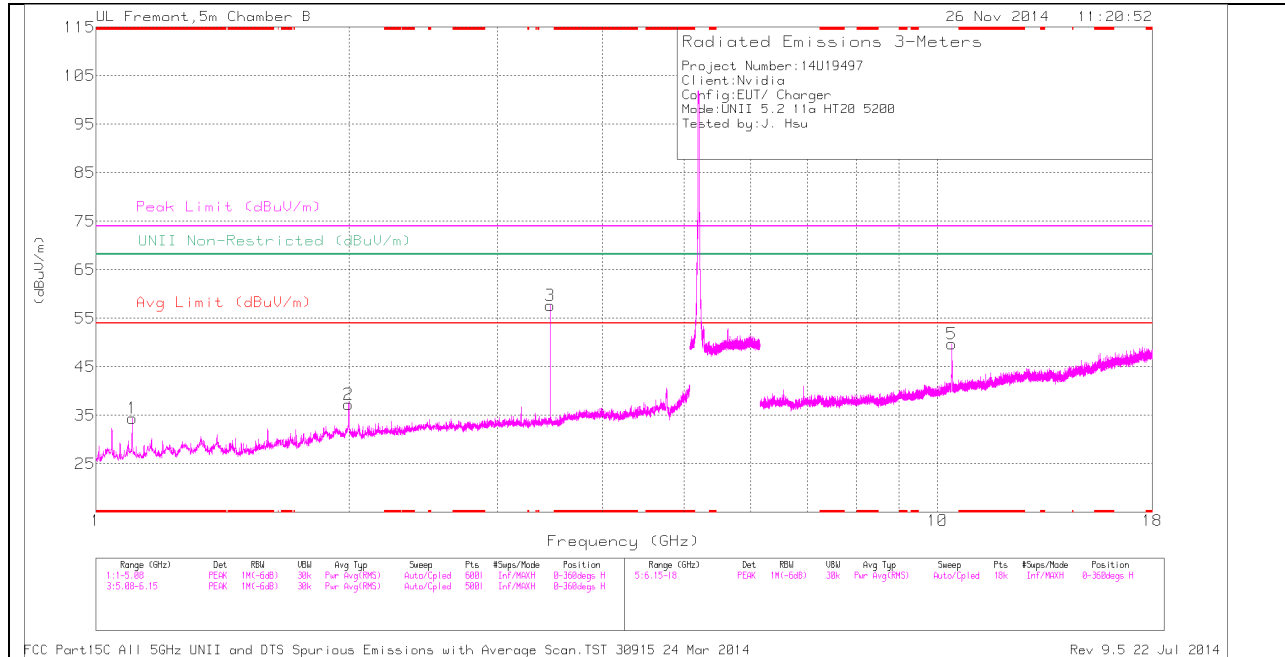
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.885	53.07	PK1	33.8	-31.5	0	55.37	-	-	74	-18.63	-	-	64	175	H
* 3.885	45.75	AD1	33.8	-31.5	.29	48.34	54	-5.66	-	-	-	-	64	175	H
10.359	43.26	PK1	37.2	-23.4	0	57.06	-	-	-	-	68.2	-11.14	225	106	V
10.36	30.61	AD1	37.2	-23.4	.29	44.7	-	-	-	-	-	-	225	106	V

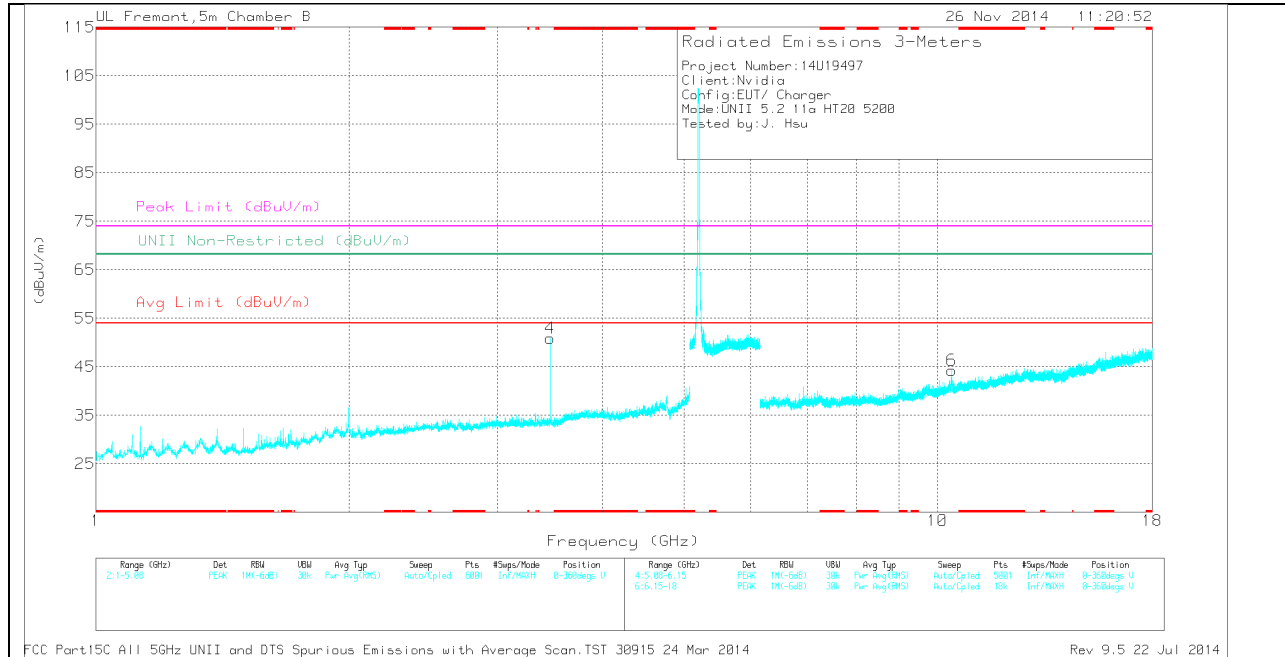
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MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.104	41.39	PK	27.4	-34.4	0	34.39	-	-	74	-39.61	-	-	0-360	199	H
2	1.997	39.01	PK	31.3	-33.1	0	37.21	-	-	-	-	68.2	-30.99	0-360	101	H
3	3.467	56.2	PK	32.8	-31.4	0	57.6	-	-	-	-	68.2	-10.6	0-360	101	H
4	3.467	49.44	PK	32.8	-31.4	0	50.84	-	-	-	-	68.2	-17.36	0-360	199	V
6	10.399	30.59	PK	37.3	-23.6	0	44.29	-	-	-	-	68.2	-23.91	0-360	200	V
5	10.4	35.97	PK	37.3	-23.6	0	49.67	-	-	-	-	68.2	-18.53	0-360	200	H

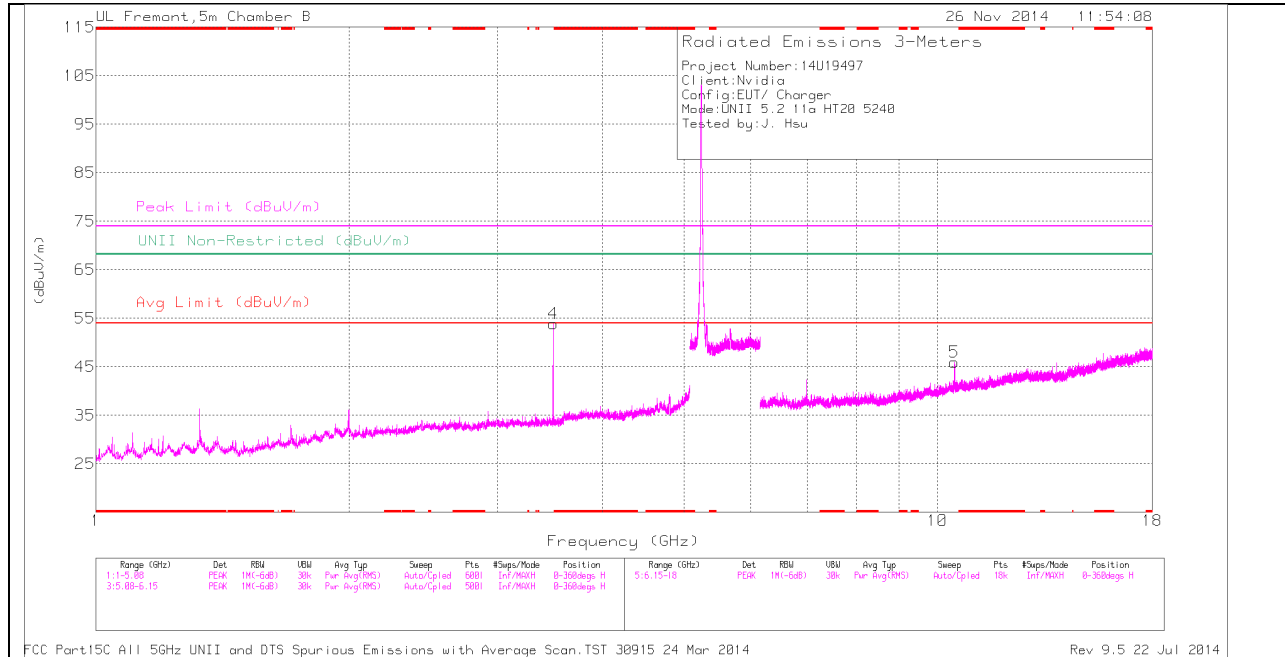
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
3.467	57.7	PK1	32.8	-31.3	0	59.2	-	-	-	-	68.2	-9	94	249	H
3.467	48.8	AD1	32.8	-31.3	.29	50.59	-	-	-	-	-	-	94	249	H
10.399	46.9	PK1	37.3	-23.6	0	60.6	-	-	-	-	68.2	-7.6	68	232	H
10.402	33.65	AD1	37.3	-23.6	.29	47.64	-	-	-	-	-	-	68	232	H

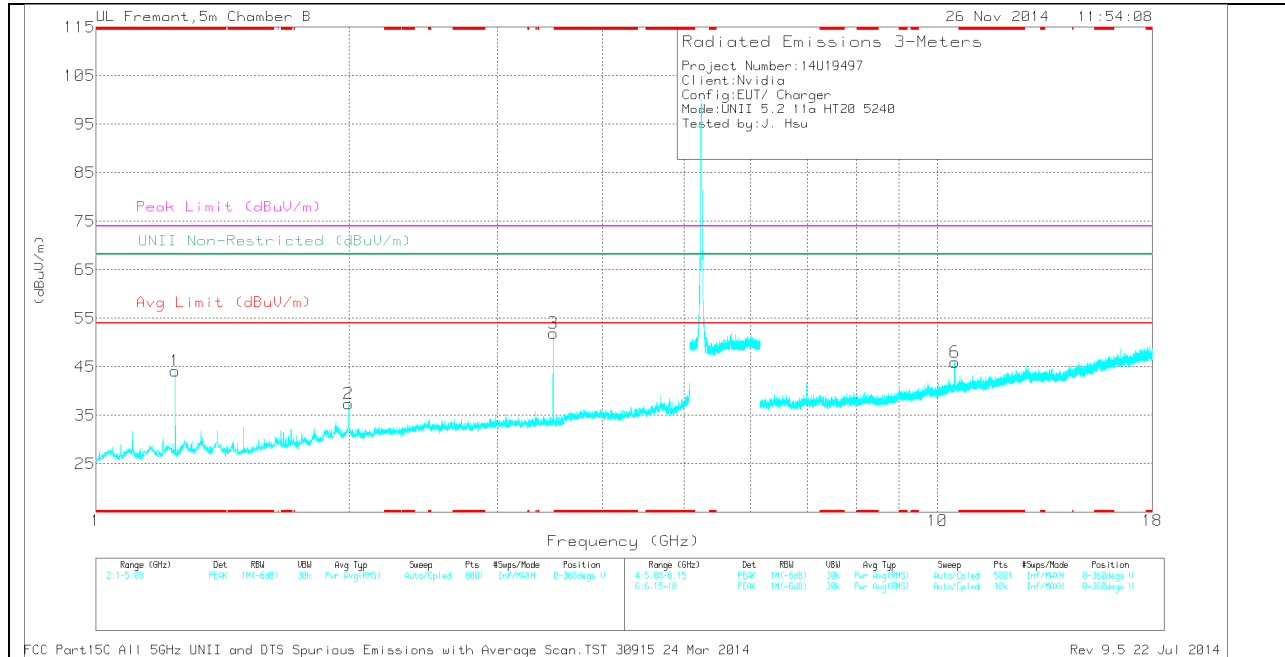
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HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.241	50.21	PK	28.5	-34.6	0	44.11	-	-	74	-29.89	-	-	0-360	101	V
2	1.997	39.16	PK	31.3	-33.1	0	37.36	-	-	-	-	68.2	-30.84	0-360	101	V
4	3.494	52.72	PK	32.8	-31.6	0	53.92	-	-	-	-	68.2	-14.28	0-360	101	H
3	3.494	50.71	PK	32.8	-31.6	0	51.91	-	-	-	-	68.2	-16.29	0-360	199	V
5	10.476	32.61	PK	37.4	-24	0	46.01	-	-	-	-	68.2	-22.19	0-360	101	H
6	10.481	32.68	PK	37.4	-24.1	0	45.98	-	-	-	-	68.2	-22.22	0-360	101	V

PK - Peak detector

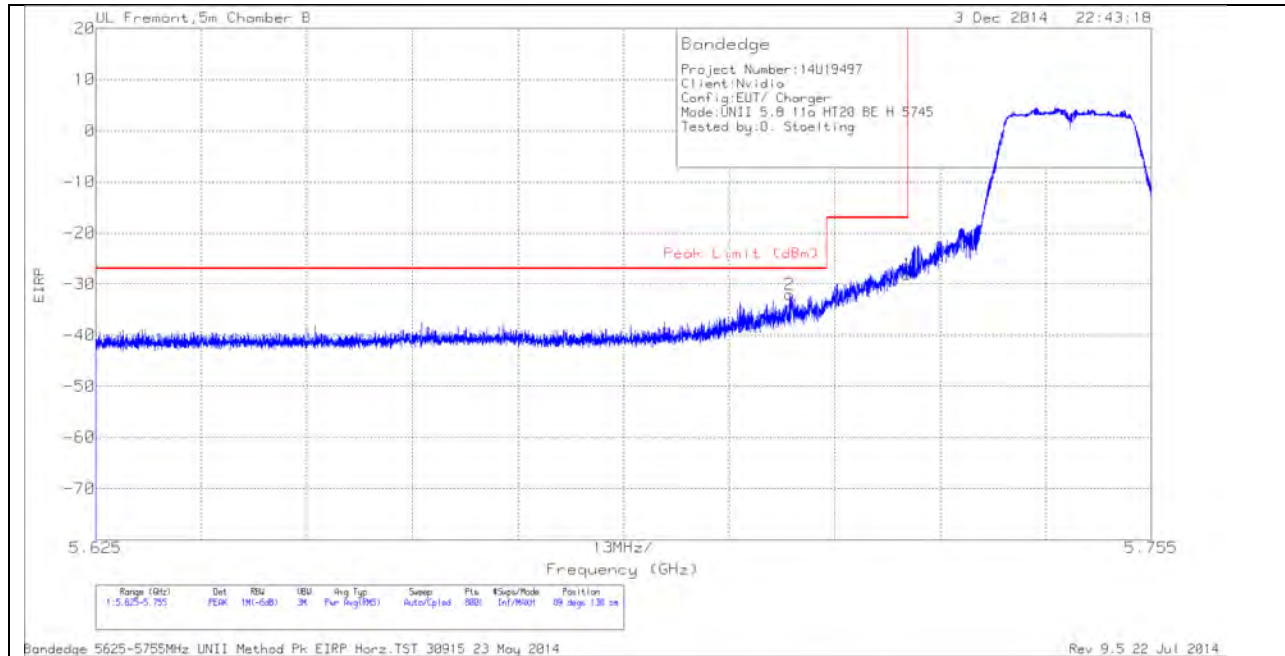
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
3.493	58.15	PK1	32.8	-31.6	0	59.35	-	-	-	-	68.2	-8.85	66	239	H
3.493	50.46	AD1	32.8	-31.6	.29	51.95	-	-	-	-	-	-	66	239	H
10.479	44.09	PK1	37.4	-24.1	0	57.39	-	-	-	-	68.2	-10.81	201	120	H
10.482	30.6	AD1	37.4	-24.1	.29	44.19	-	-	-	-	-	-	201	120	H

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13.2. 5.8 GHz

13.2.1. TX ABOVE 1 GHz 802.11a MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS HORIZONTAL PEAK AND AVERAGE PLOT

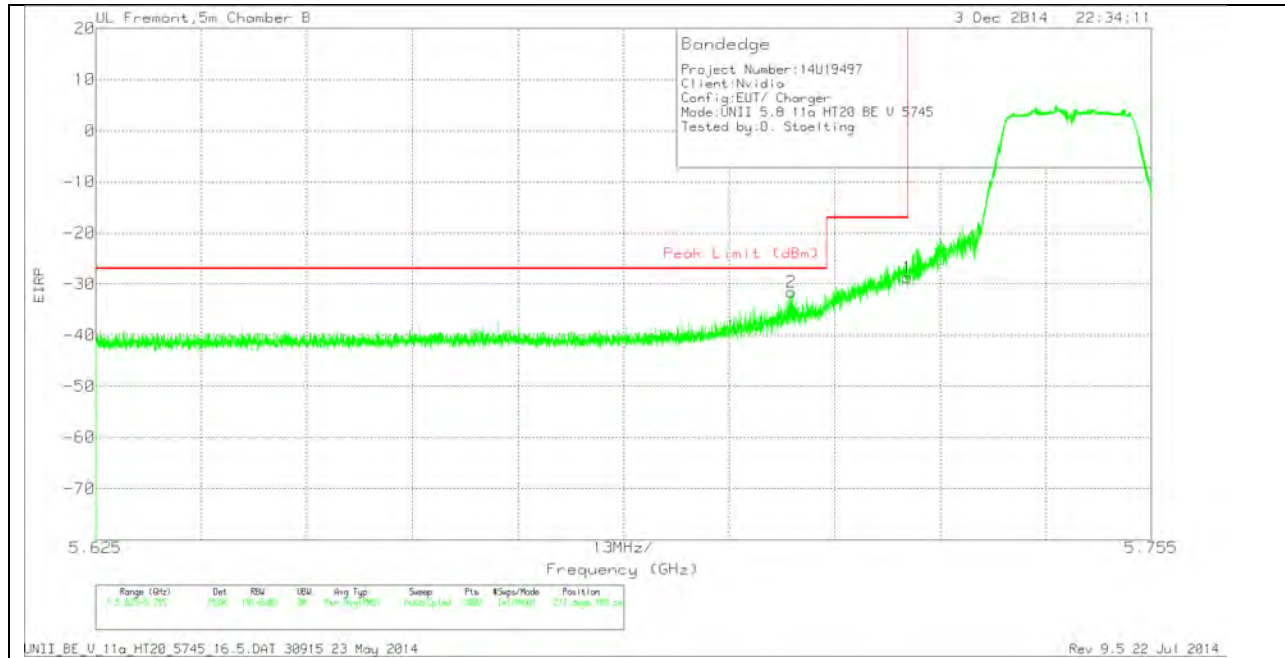


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.71	-58.25	PK	34.5	-20.1	11.8	0	-32.05	-27	-5.05	89	138	H
1	5.725	-54.39	PK	34.6	-20.1	11.8	0	-28.09	-17	-11.09	89	138	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



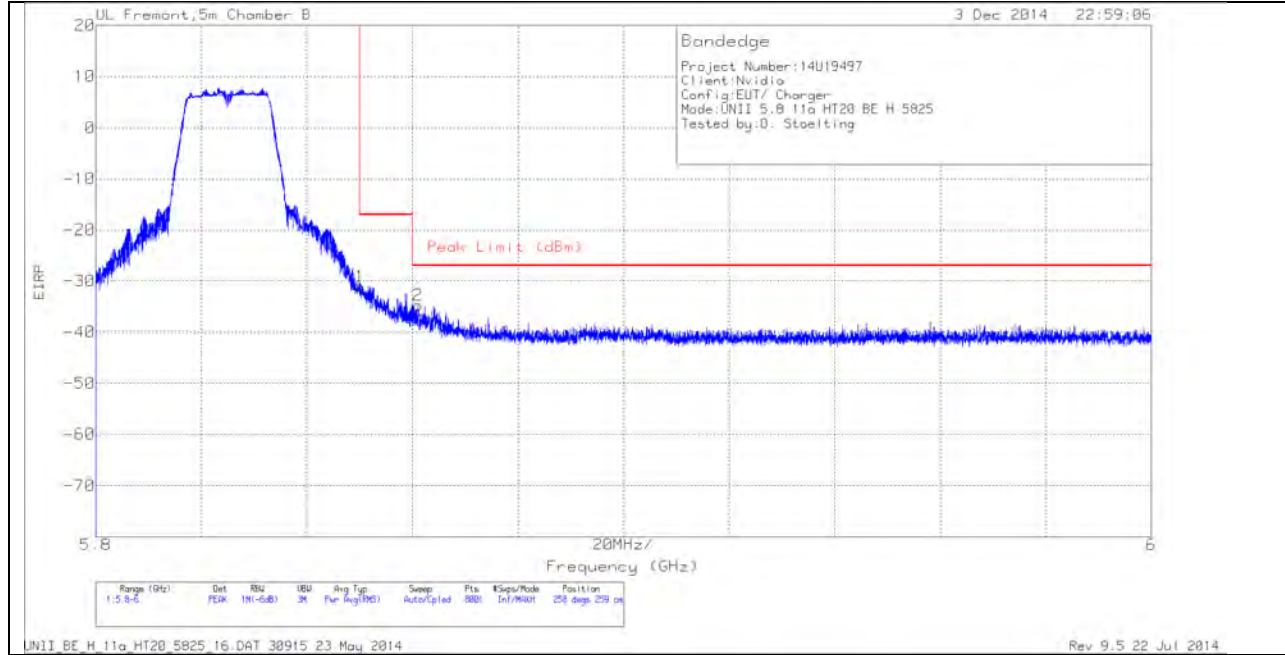
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.711	-57.7	PK	34.5	-20.1	11.8	0	-31.5	-27	-4.5	212	108	V
1	5.725	-55.03	PK	34.6	-20.1	11.8	0	-28.73	-17	-11.73	212	108	V

PK - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

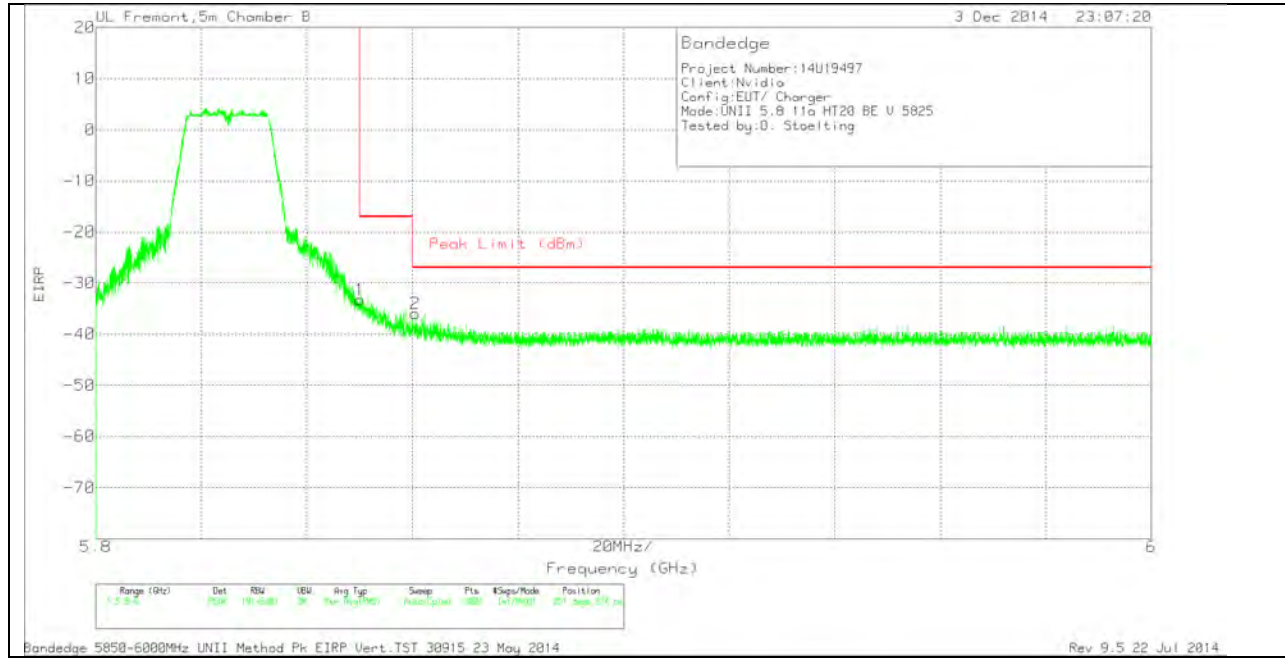


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-57.78	PK	34.8	-19.9	11.8	0	-31.08	-17	-14.08	258	259	H
2	5.861	-61.42	PK	34.8	-19.9	11.8	0	-34.72	-27	-7.72	258	259	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

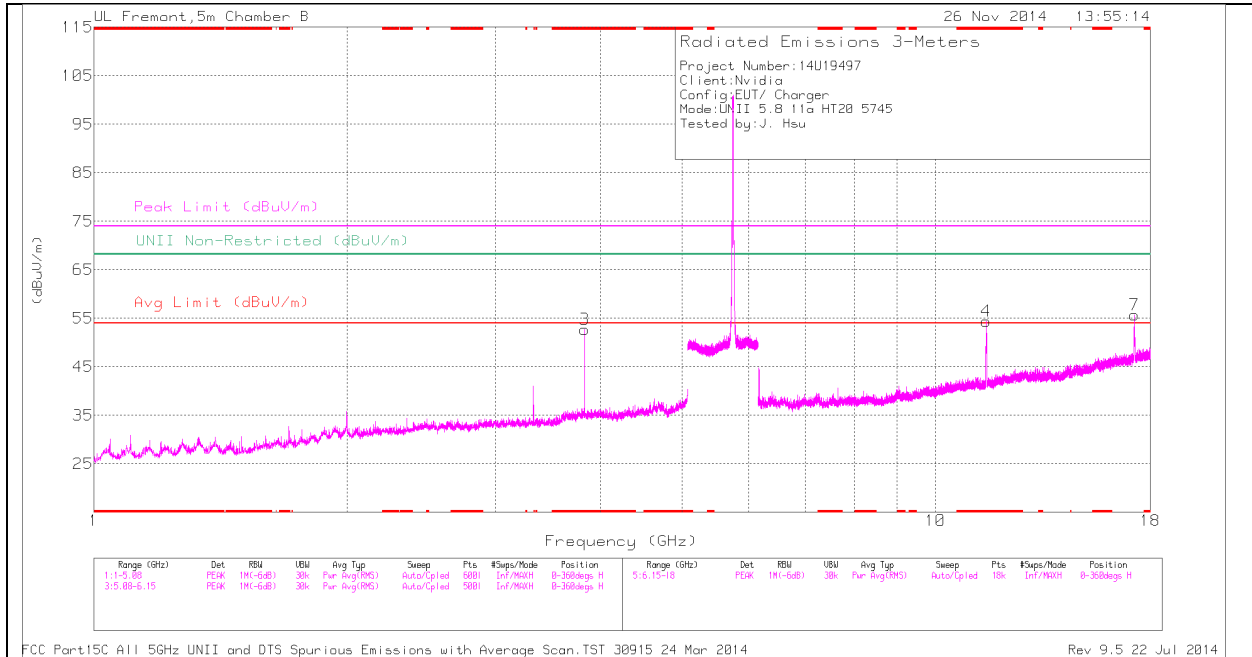


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-59.95	PK	34.8	-19.9	11.8	0	-33.25	-17	-16.25	251	274	V
2	5.861	-62.63	PK	34.8	-19.9	11.8	0	-35.93	-27	-8.93	251	274	V

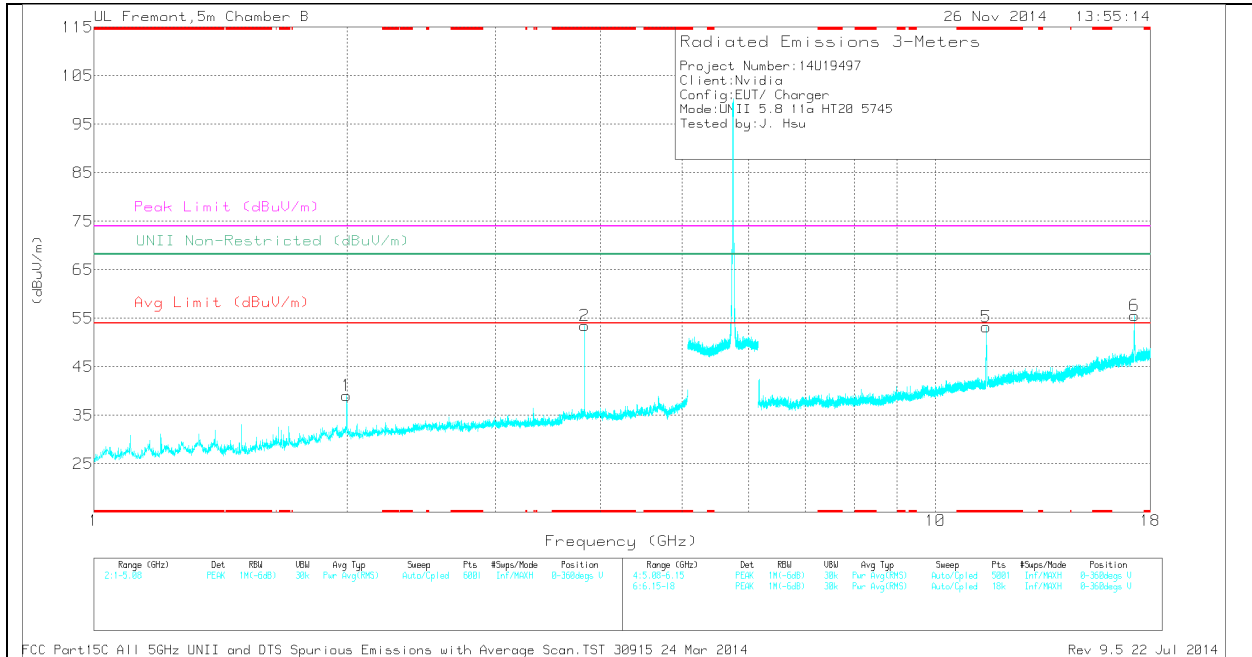
PK - Peak detector

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
3	* 3.83	50.37	PK	33.7	-31.3	0	52.77	-	-	74	-21.23	-	-	0-360	101	H
2	* 3.83	51.09	PK	33.7	-31.3	0	53.49	-	-	74	-20.51	-	-	0-360	200	V
4	* 11.489	39.29	PK	38	-22.9	0	54.39	-	-	74	-19.61	-	-	0-360	101	H
5	* 11.492	38.14	PK	38	-22.9	0	53.24	-	-	74	-20.76	-	-	0-360	101	V
1	1.996	40.93	PK	31.3	-33.1	0	39.13	-	-	-	-	68.2	-29.07	0-360	200	V
7	17.228	34.14	PK	41.5	-19.9	0	55.74	-	-	-	-	68.2	-12.46	0-360	101	H
6	17.238	33.83	PK	41.5	-19.8	0	55.53	-	-	-	-	68.2	-12.67	0-360	101	V

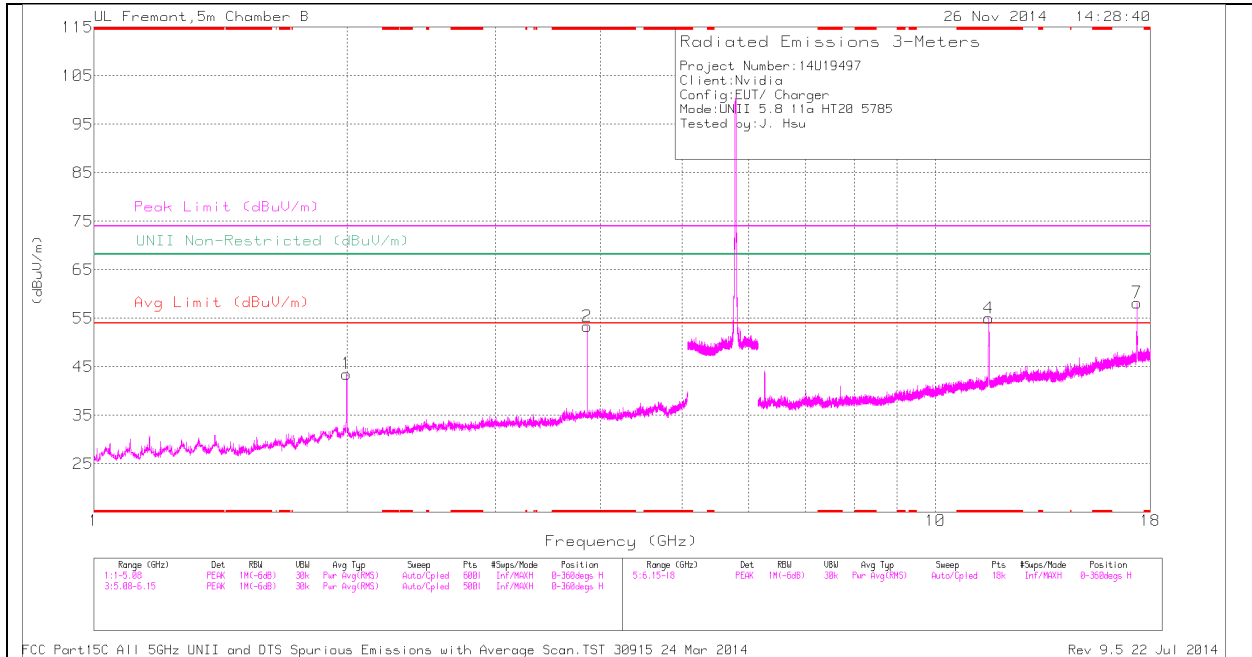
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.83	53.34	PK1	33.7	-31.3	0	55.74	-	-	74	-18.26	-	-	169	300	V
* 3.83	46.28	AD1	33.7	-31.3	.29	48.97	54	-5.03	-	-	-	-	169	300	V
* 11.488	50.8	PK1	38	-22.9	0	65.9	-	-	74	-8.1	-	-	60	137	H
* 11.492	38.04	AD1	38	-22.9	.29	53.43	54	-5.7	-	-	-	-	60	137	H

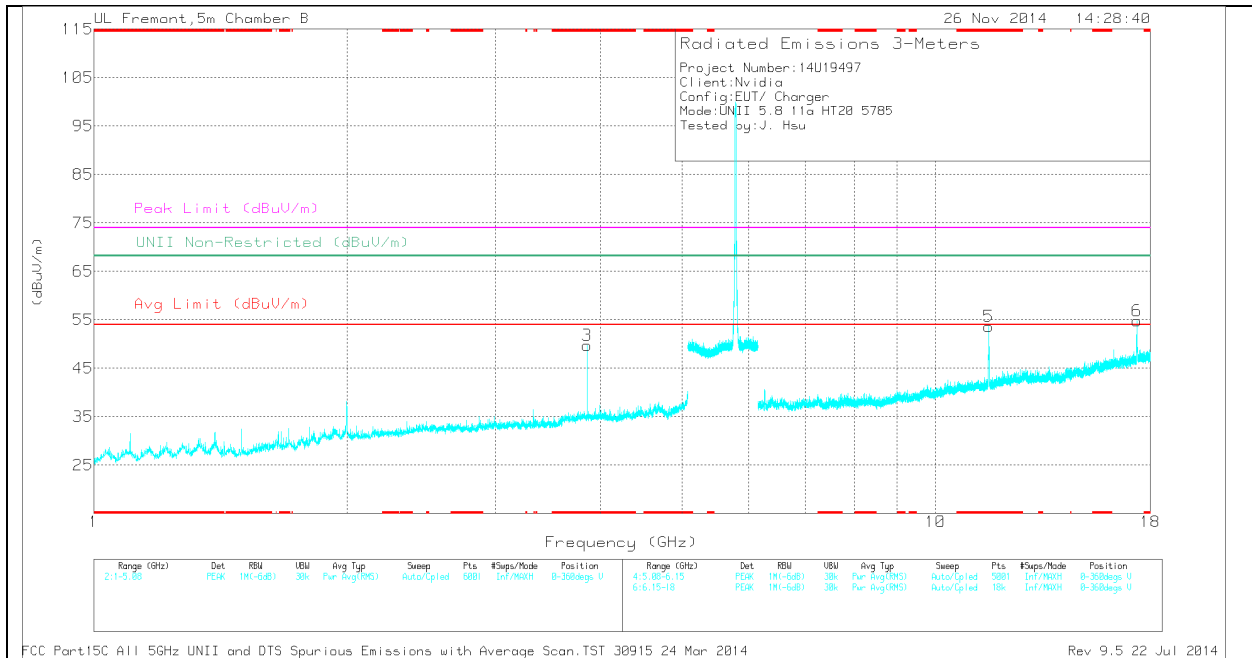
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MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.857	51.22	PK	33.7	-31.5	0	53.42	-	-	74	-20.58	-	-	0-360	199	H
3	* 3.857	47.56	PK	33.7	-31.5	0	49.76	-	-	74	-24.24	-	-	0-360	101	V
4	* 11.568	39.2	PK	38.1	-22.3	0	55	-	-	74	-19	-	-	0-360	101	H
5	* 11.566	37.78	PK	38.1	-22.2	0	53.68	-	-	74	-20.32	-	-	0-360	199	V
1	1.997	45.36	PK	31.3	-33.1	0	43.56	-	-	-	-	68.2	-24.64	0-360	199	H
7	17.349	36.73	PK	41.6	-20.1	0	58.23	-	-	-	-	68.2	-9.97	0-360	199	H
6	17.359	33.26	PK	41.6	-20.1	0	54.76	-	-	-	-	68.2	-13.44	0-360	101	V

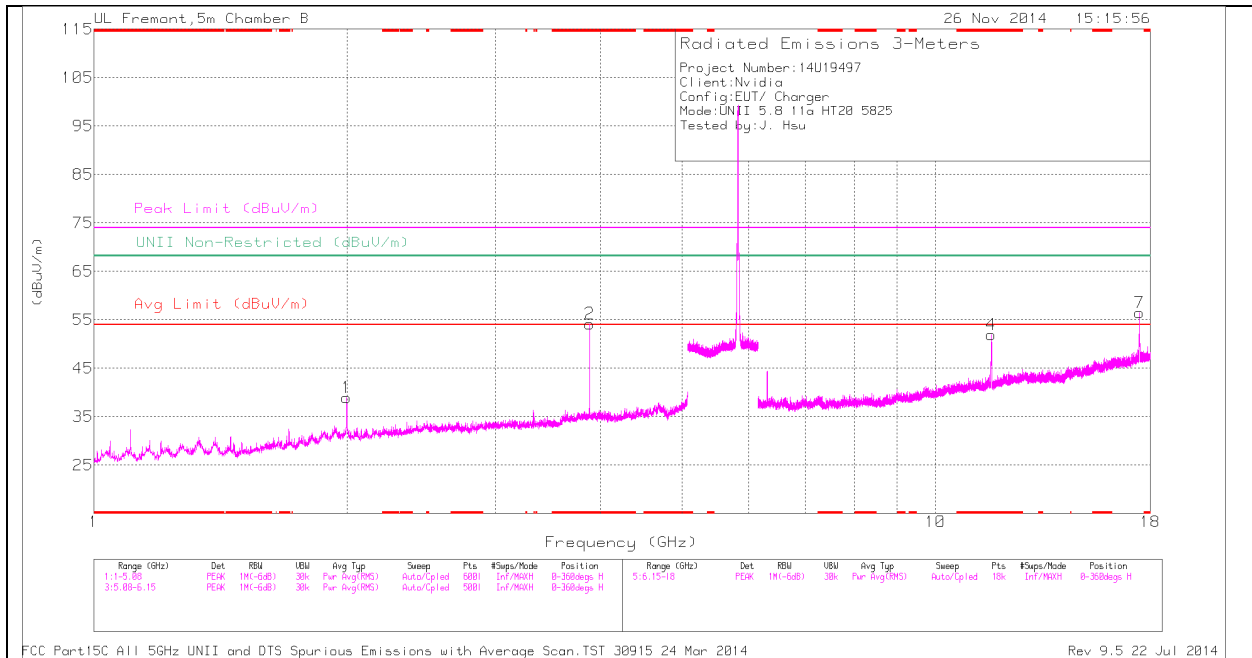
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.857	53.14	PK1	33.7	-31.5	0	55.34	-	-	74	-18.66	-	-	45	209	H
* 3.857	45.13	AD1	33.7	-31.5	.29	47.62	54	-6.38	-	-	-	-	45	209	H
* 11.569	50.38	PK1	38.1	-22.3	0	66.18	-	-	74	-7.82	-	-	42	272	H
* 11.571	37	AD1	38.1	-22.3	.29	53.09	54	-9.1	-	-	-	-	42	272	H

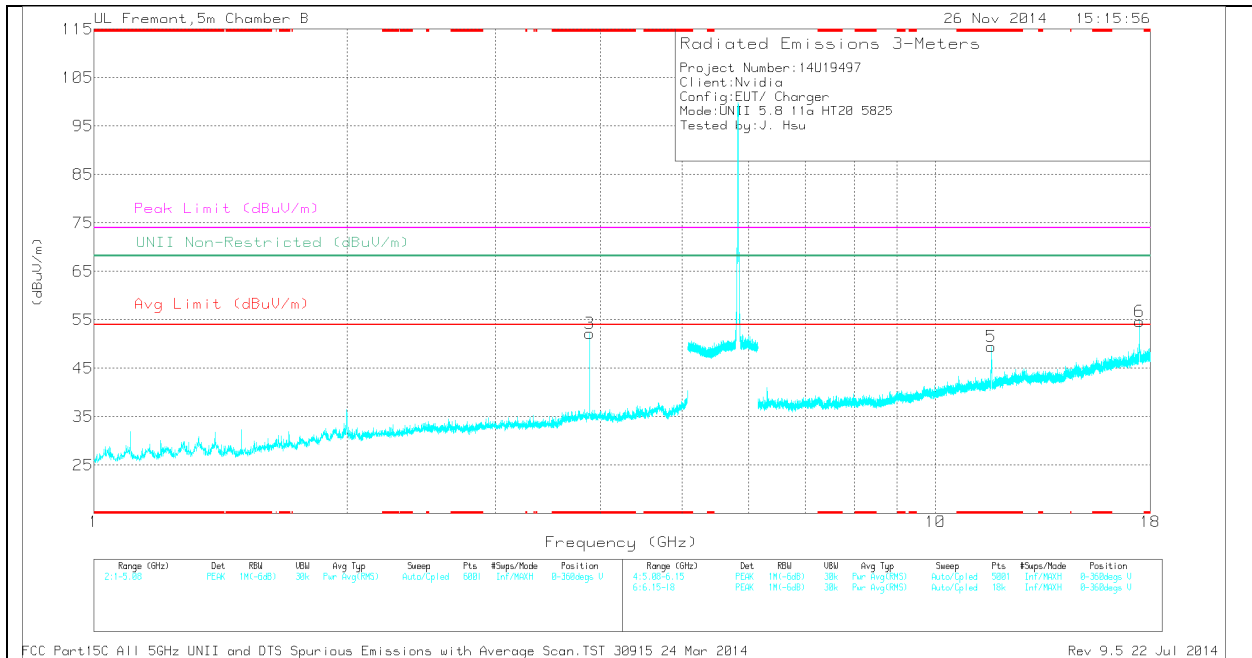
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HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.883	51.9	PK	33.8	-31.5	0	54.2	-	-	74	-19.8	-	-	0-360	101	H
3	* 3.883	49.84	PK	33.8	-31.5	0	52.14	-	-	74	-21.86	-	-	0-360	199	V
4	* 11.649	36.82	PK	38.1	-23	0	51.92	-	-	74	-22.08	-	-	0-360	199	H
5	* 11.651	34.44	PK	38.1	-23.1	0	49.44	-	-	74	-24.56	-	-	0-360	101	V
1	1.997	40.8	PK	31.3	-33.1	0	39	-	-	-	-	68.2	-29.2	0-360	199	H
6	17.472	32.79	PK	41.7	-19.8	0	54.69	-	-	-	-	68.2	-13.51	0-360	101	V
7	17.473	34.58	PK	41.7	-19.8	0	56.48	-	-	-	-	68.2	-11.72	0-360	101	H

PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.883	51.78	PK1	33.8	-31.5	0	54.08	-	-	74	-19.92	-	-	64	106	H
* 3.883	45.58	AD1	33.8	-31.5	.29	48.17	54	-5.83	-	-	-	-	64	106	H
* 11.648	49.86	PK1	38.1	-23	0	64.96	-	-	74	-9.04	-	-	41	280	H
* 11.65	36.81	AD1	38.1	-23	.29	52.2	54	-1.8	-	-	-	-	41	280	H

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14. TRANSMITTER ABOVE 1 GHz MIMO Chain 1 LIMITS

FCC §15.205 and §15.209

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 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

Reference to KDB 789033 UNII part H) 6) d) Method VB:

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 3 MHz for peak measurements and add duty cycle factor to the reading offset for average measurements.

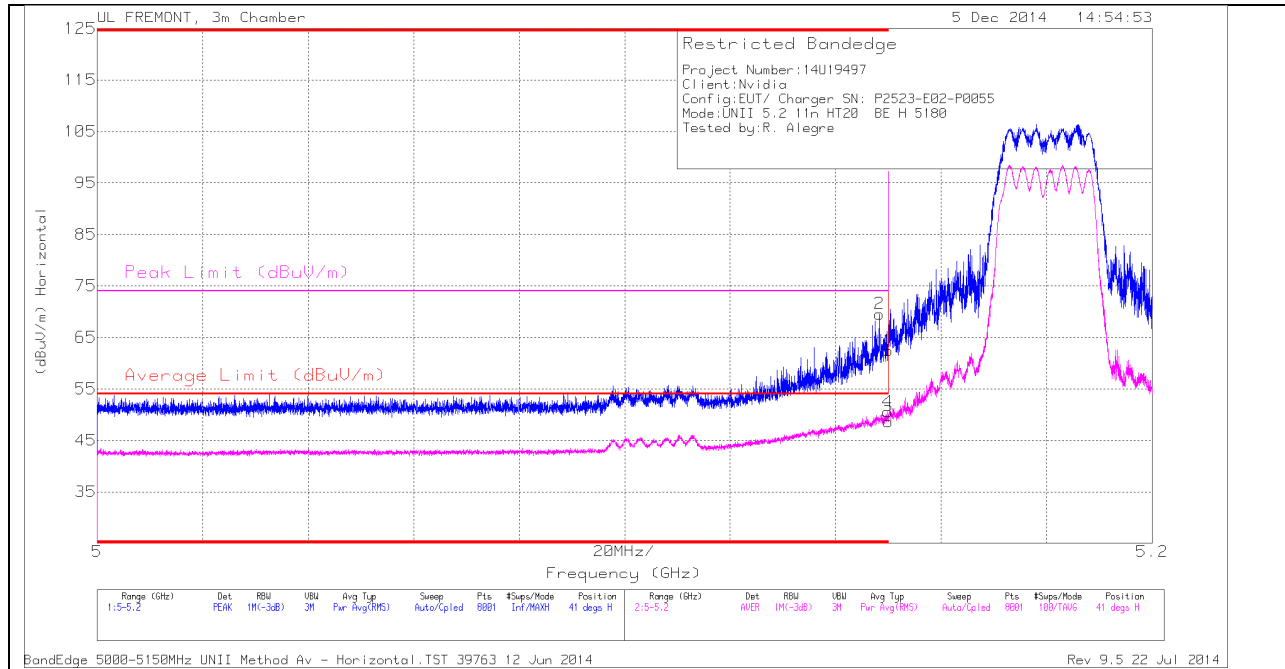
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

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.

14.1. 5.2 GHz

14.1.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

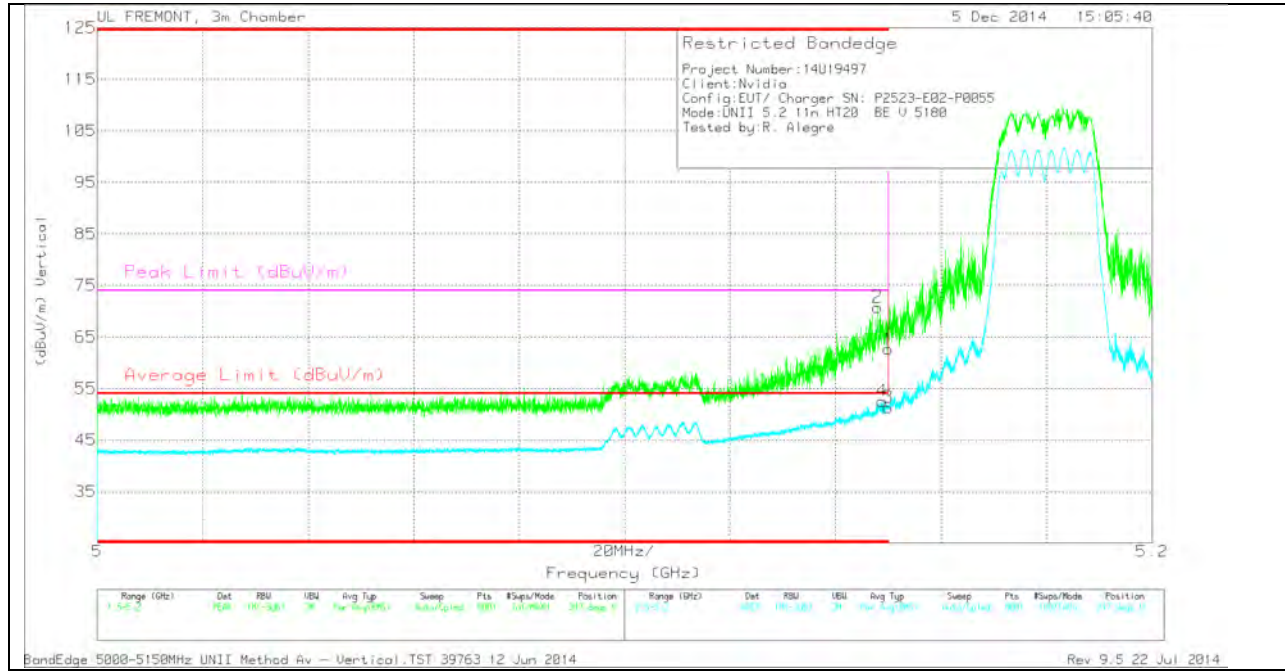
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Fitter/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	* 5.15	49.86	PK	34.2	-21.6	0	62.46	-	-	74	-11.54	41	314	H
2	* 5.148	56.97	PK	34.2	-21.6	0	69.57	-	-	74	-4.43	41	314	H
3	* 5.15	35.68	RMS	34.2	-21.6	.33	48.61	54	-5.39	-	-	41	314	H
4	* 5.15	37.62	RMS	34.2	-21.6	.33	50.55	54	-3.45	-	-	41	314	H

VERTICAL PEAK AND AVERAGE PLOT

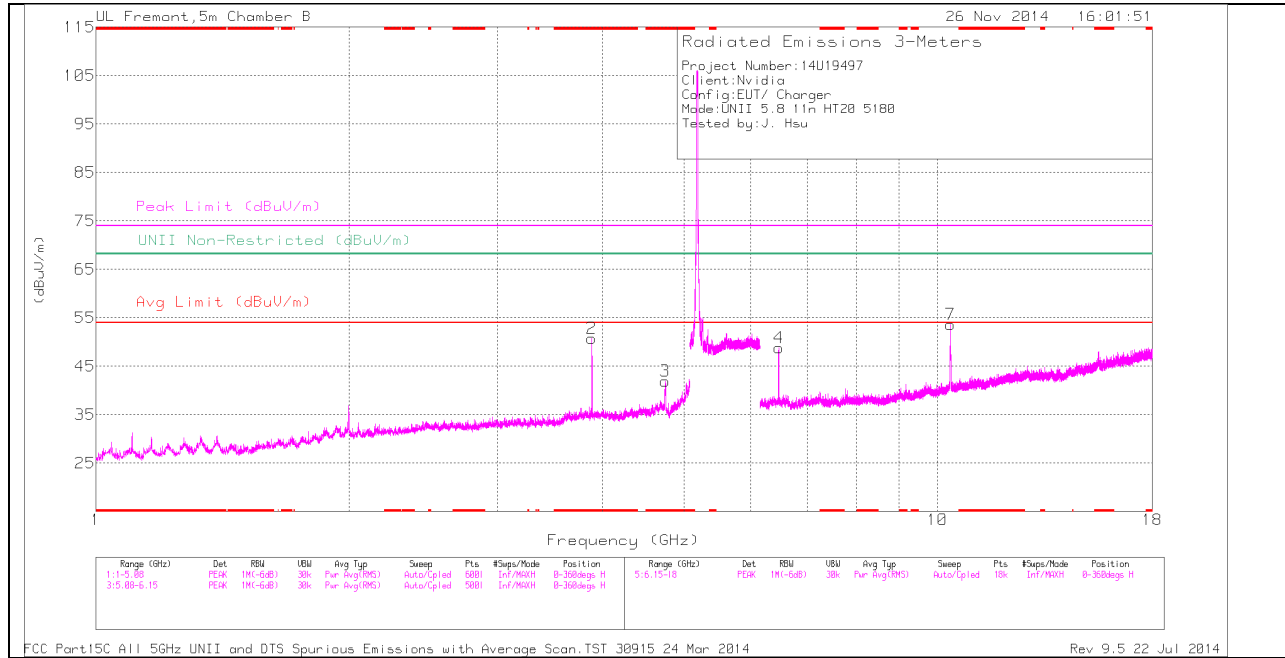


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/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	* 5.15	50.07	PK	34.2	-21.6	0	62.67	-	-	74	-11.33	347	386	V
2	* 5.148	58.16	PK	34.2	-21.6	0	70.76	-	-	74	-3.24	347	386	V
3	* 5.15	38.41	RMS	34.2	-21.6	.33	51.34	54	-2.66	-	-	347	386	V
4	* 5.149	39.66	RMS	34.2	-21.6	.33	52.59	54	-1.41	-	-	347	386	V

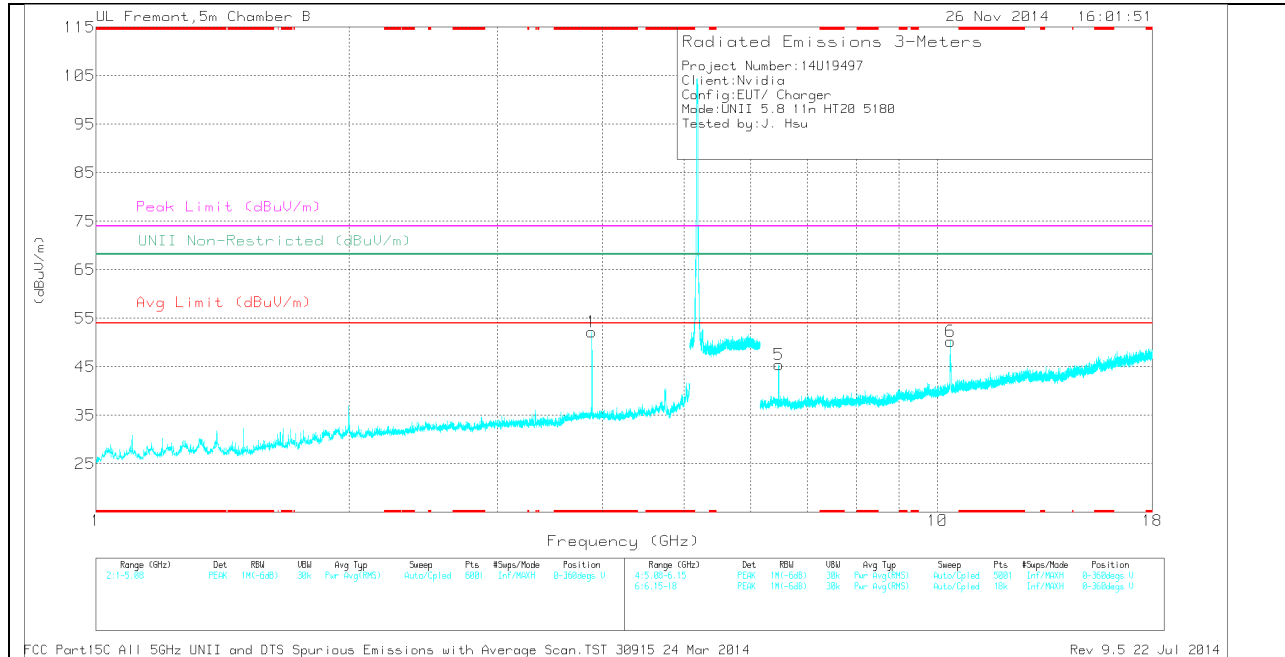
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/ Ftr/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	* 3.885	48.44	PK	33.8	-31.5	0	50.74	-	-	74	-23.26	-	-	0-360	200	H
3	* 4.748	37.58	PK	34.2	-29.8	0	41.98	-	-	74	-32.02	-	-	0-360	101	H
1	* 3.885	49.84	PK	33.8	-31.5	0	52.14	-	-	74	-21.86	-	-	0-360	101	V
4	6.475	42.75	PK	35.6	-29.5	0	48.85	-	-	-	-	68.2	-19.35	0-360	199	H
5	6.475	39.36	PK	35.6	-29.5	0	45.46	-	-	-	-	68.2	-22.74	0-360	199	V
7	10.357	39.87	PK	37.2	-23.4	0	53.67	-	-	-	-	68.2	-14.53	0-360	199	H
6	10.36	36.43	PK	37.2	-23.4	0	50.23	-	-	-	-	68.2	-17.97	0-360	101	V

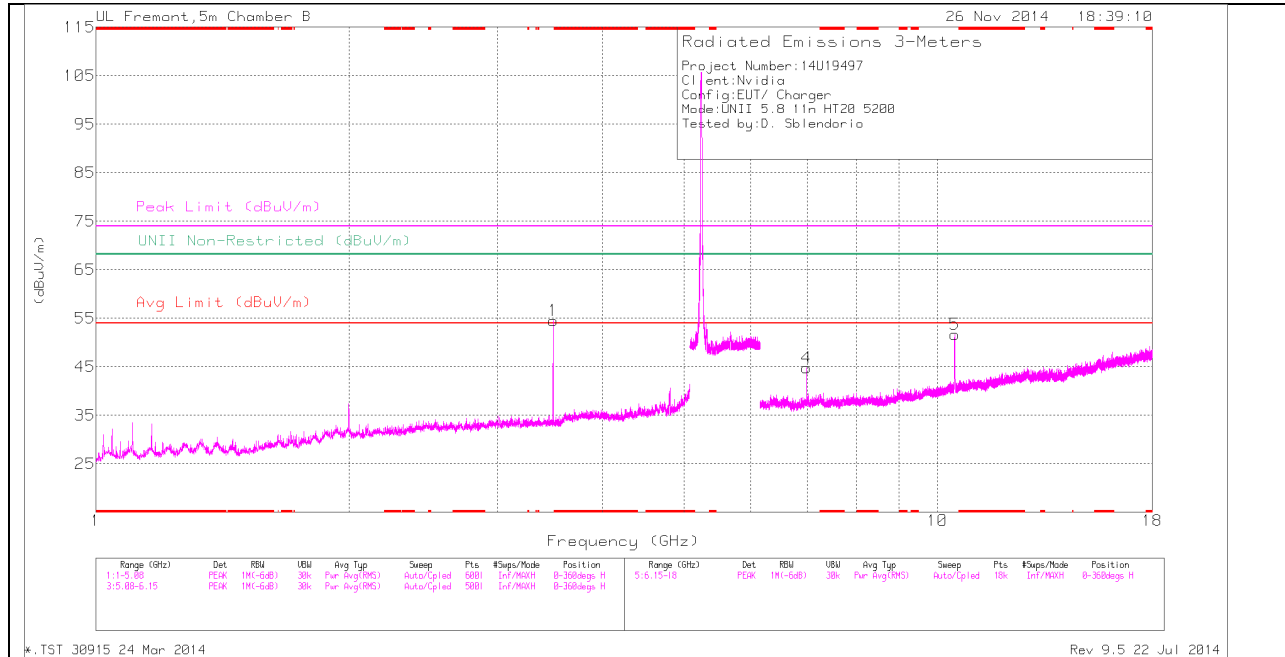
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T34S (dB/m)	Amp/Cbl/ Ftr/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
10.358	49.43	PK1	37.2	-23.4	0	63.23	-	-	-	-	68.2	-4.97	40	251	H
10.361	36.08	AD1	37.2	-23.4	.33	50.21	-	-	-	-	-	-	40	251	H

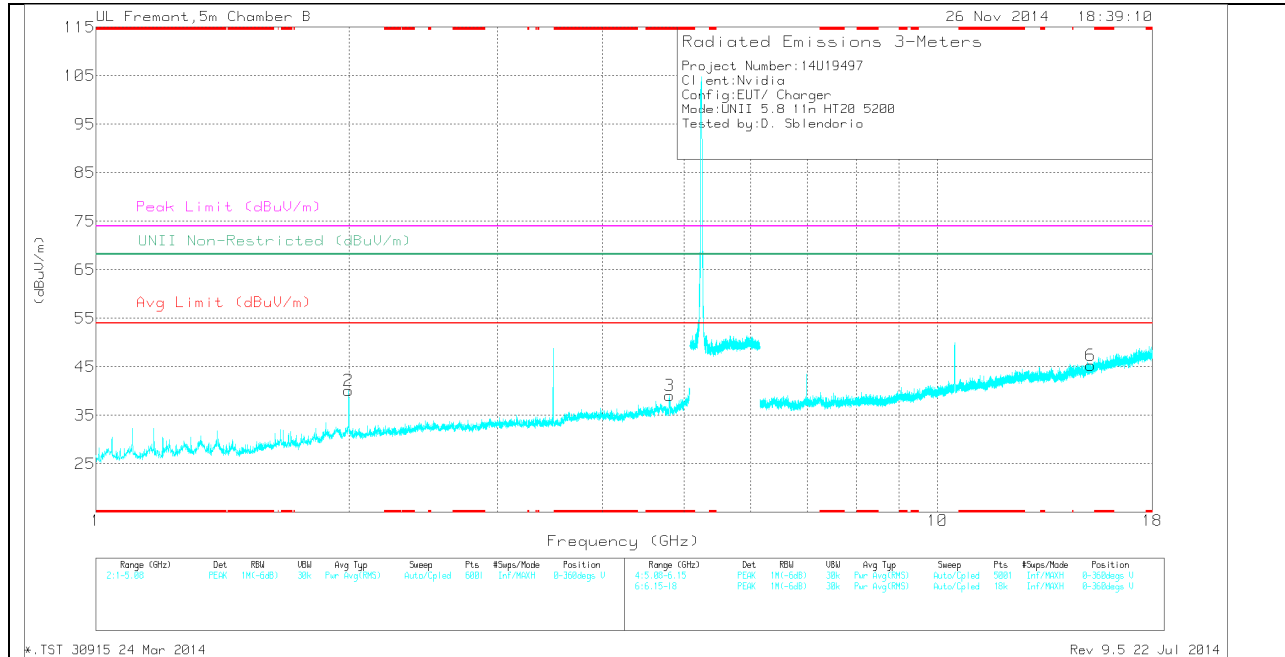
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MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/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
3	* 4.808	34.74	PK	34.2	-29.9	0	39.04	-	-	74	-34.96	-	-	0-360	199	V
2	1.997	41.96	PK	31.3	-33.1	0	40.16	-	-	-	-	68.2	-28.04	0-360	101	V
1	3.494	53.35	PK	32.8	-31.6	0	54.55	-	-	-	-	68.2	-13.65	0-360	199	H
4	6.987	36.59	PK	35.6	-27.4	0	44.79	-	-	-	-	68.2	-23.41	0-360	200	H
5	10.48	38.39	PK	37.4	-24.1	0	51.69	-	-	-	-	68.2	-16.51	0-360	200	H
6	15.211	26.27	PK	40	-20.9	0	45.37	-	-	-	-	68.2	-22.83	0-360	200	V

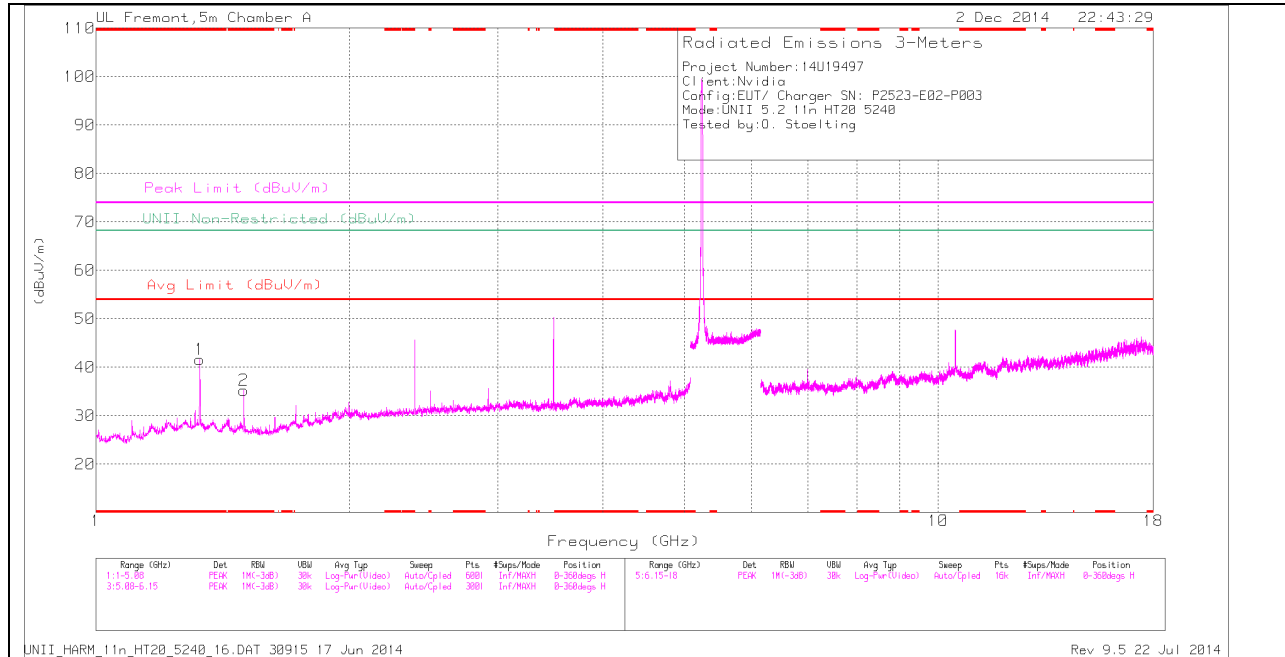
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Ftr/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
3.493	58.81	PK1	32.8	-31.6	0	60.01	-	-	-	-	68.2	-8.19	251	210	H
3.493	47.8	AD1	32.8	-31.6	.31	49.31	-	-	-	-	-	-	251	210	H
6.987	41.57	PK1	35.6	-27.4	0	49.77	-	-	-	-	68.2	-18.43	188	234	H
6.987	34.91	AD1	35.6	-27.4	.31	43.42	-	-	-	-	-	-	188	234	H

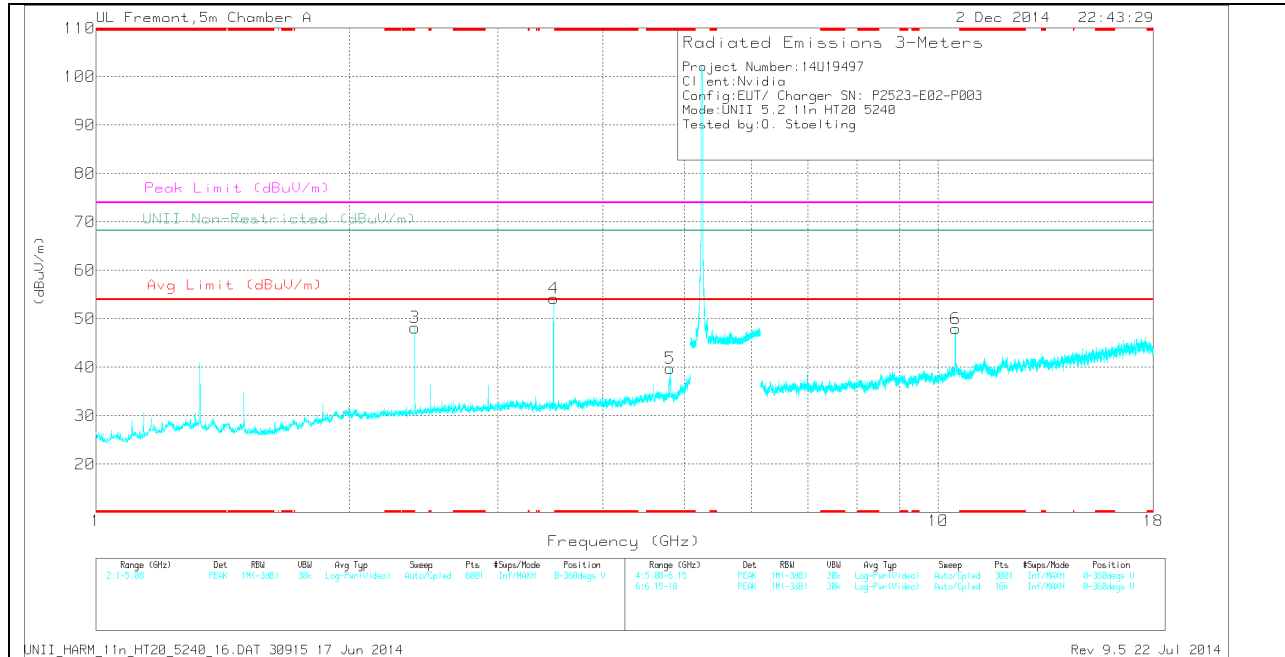
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HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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	* 1.328	45.3	PK	29.9	-33.6	0	41.6	-	-	74	-32.4	-	-	0-360	100	H
2	* 1.498	39.64	PK	28.5	-32.9	0	35.24	-	-	74	-38.76	-	-	0-360	100	H
5	* 4.803	35.99	PK	34.1	-30.3	0	39.79	-	-	74	-34.21	-	-	0-360	100	V
3	2.391	48.77	PK	32.1	-32.7	0	48.17	-	-	-	-	68.2	-20.03	0-360	200	V
4	3.494	52.65	PK	33	-31.5	0	54.15	-	-	-	-	68.2	-14.05	0-360	200	V
6	10.479	36.23	PK	37.5	-25.7	0	48.03	-	-	-	-	68.2	-20.17	0-360	100	V

PK - Peak detector

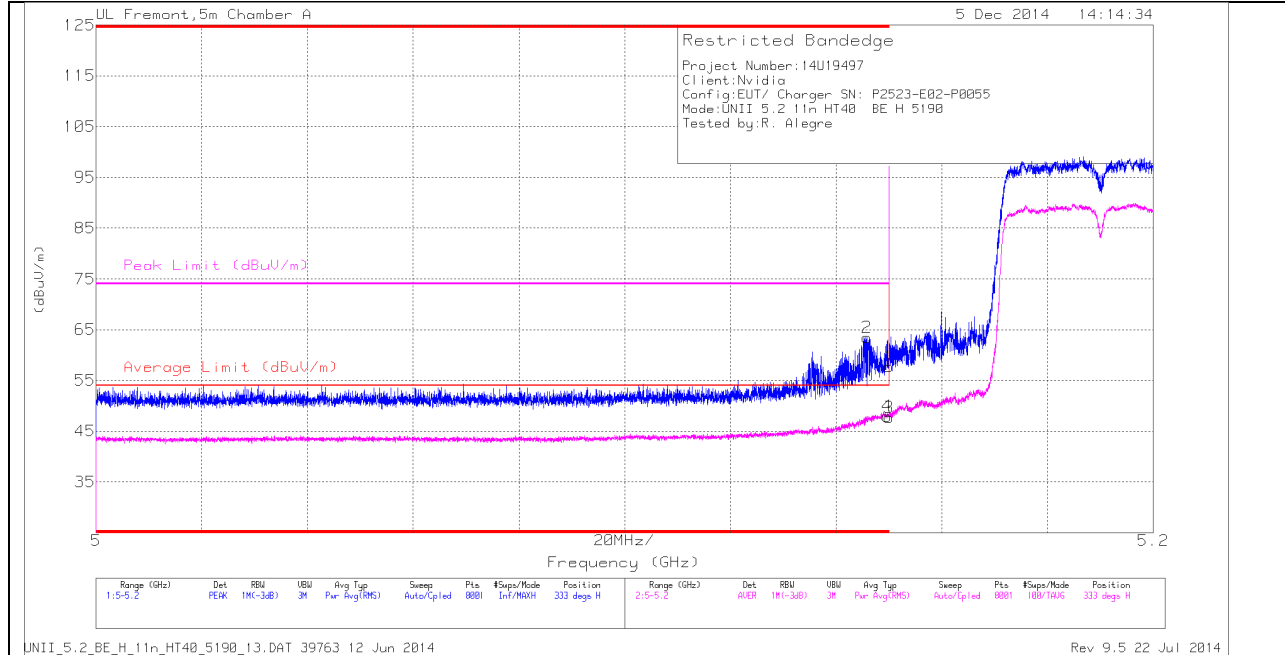
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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
* 1.328	49.88	PK1	29.9	-33.6	0	46.18	-	-	74	-27.82	-	-	39	103	H
* 1.328	36.72	AD1	29.9	-33.6	.31	33.33	54	-20.67	-	-	-	-	39	103	H
* 1.498	45.03	PK1	28.5	-32.9	0	40.63	-	-	74	-33.37	-	-	141	105	H
* 1.498	36.05	AD1	28.5	-32.9	.31	31.96	54	-22.04	-	-	-	-	141	105	H
* 4.803	46.62	PK1	34.1	-30.3	0	50.42	-	-	74	-23.58	-	-	291	152	V
* 4.803	37.47	AD1	34.1	-30.3	.31	41.58	54	-12.42	-	-	-	-	291	152	V
2.39	40.31	AD1	32.1	-32.7	.31	40.02	-	-	-	-	-	-	196	260	V
2.391	50.4	PK1	32.1	-32.7	0	49.8	-	-	-	-	68.2	-18.4	196	260	V
3.493	53.01	PK1	33	-31.5	0	54.51	-	-	-	-	68.2	-13.69	209	226	V
3.493	41.77	AD1	33	-31.5	.31	43.58	-	-	-	-	-	-	209	226	V
10.48	48.9	PK1	37.5	-25.7	0	60.7	-	-	-	-	68.2	-7.5	244	134	V
10.48	35.18	AD1	37.5	-25.7	.31	47.29	-	-	-	-	-	-	244	134	V

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14.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

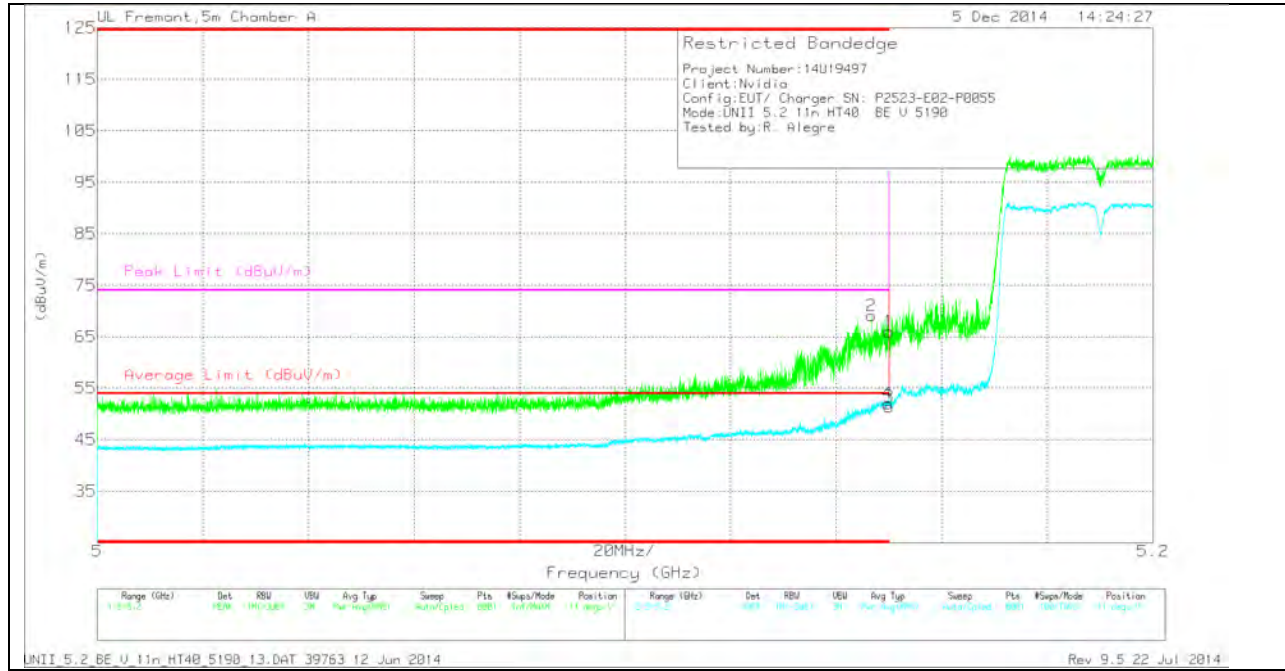
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/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	* 5.15	45.13	PK	34.2	-21.6	0	57.73	-	-	74	-16.27	333	109	H
2	* 5.146	50.89	PK	34.2	-21.6	0	63.49	-	-	74	-10.51	333	109	H
3	* 5.15	34.65	RMS	34.2	-21.6	1.07	48.32	54	-5.68	-	-	333	109	H
4	* 5.15	35	RMS	34.2	-21.6	1.07	48.67	54	-5.33	-	-	333	109	H

VERTICAL PEAK AND AVERAGE PLOT

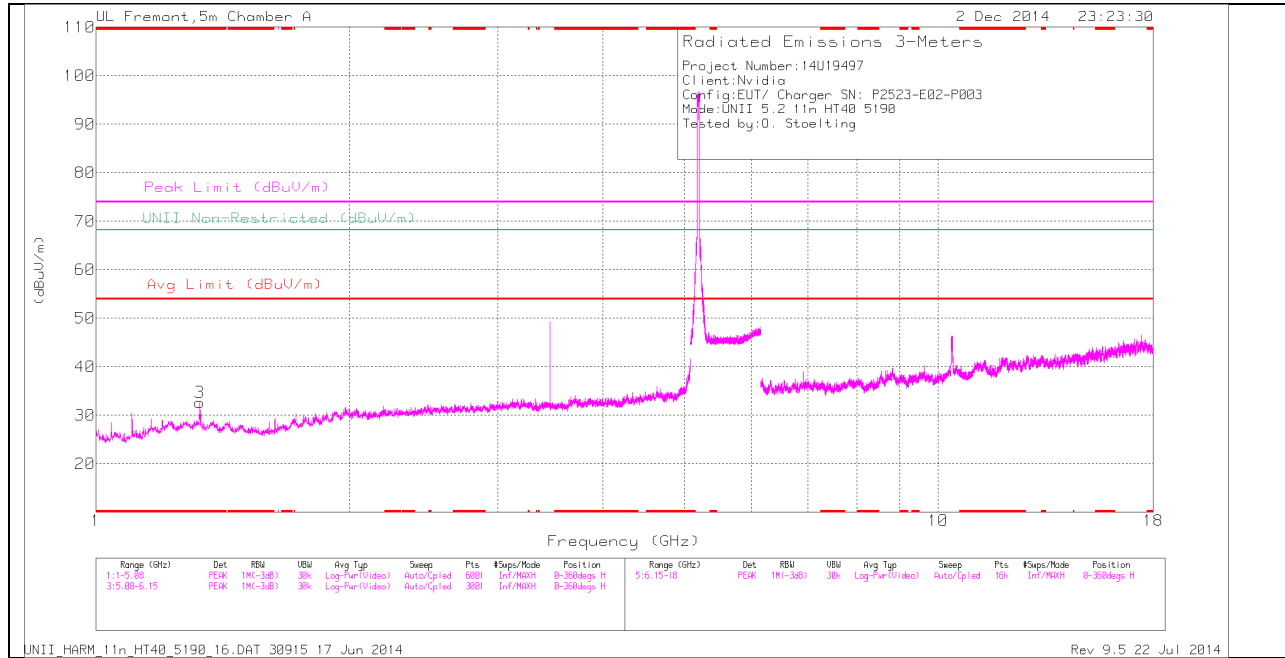


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/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	* 5.15	53.39	PK	34.2	-21.6	0	65.99	-	-	74	-8.01	11	269	V
2	* 5.147	56.47	PK	34.2	-21.6	0	69.07	-	-	74	-4.93	11	269	V
3	* 5.15	38.4	RMS	34.2	-21.6	1.07	52.07	54	-1.93	-	-	11	269	V
4	* 5.15	39.05	RMS	34.2	-21.6	1.07	52.72	54	-1.28	-	-	11	269	V

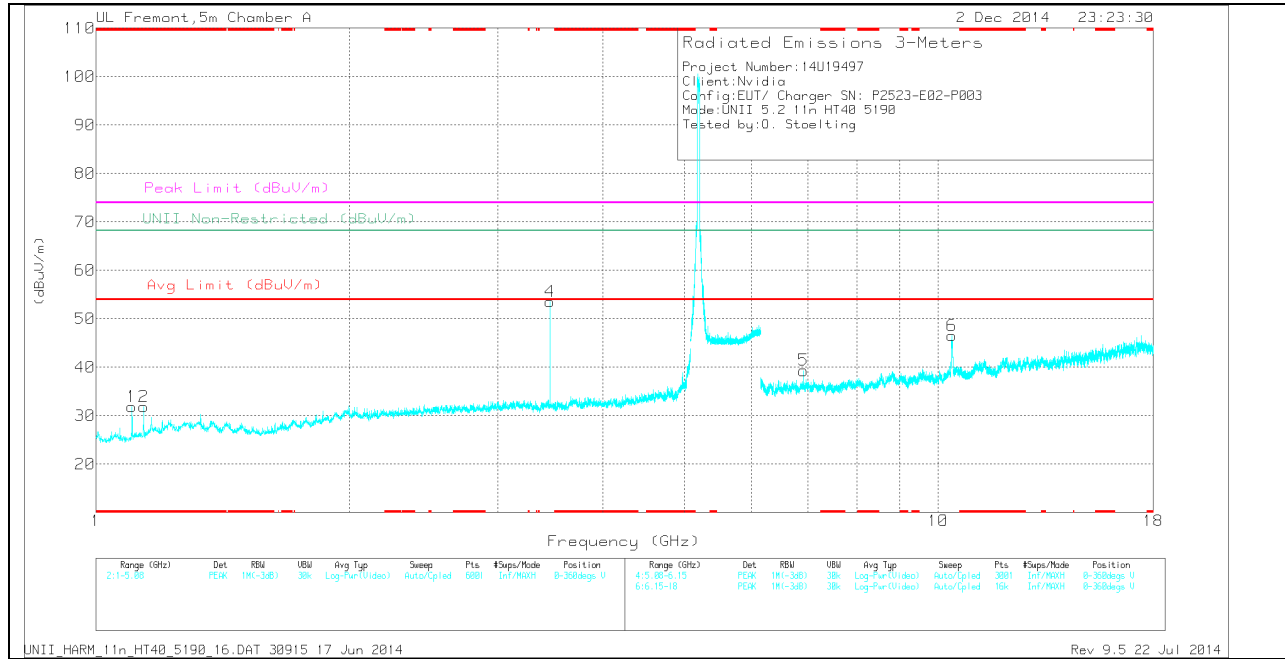
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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
3	* 1.328	36.34	PK	29.9	-33.6	0	32.64	-	-	74	-41.36	-	-	0-360	200	H
1	* 1.103	38.12	PK	27.3	-33.5	0	31.92	-	-	74	-42.08	-	-	0-360	200	V
2	* 1.139	37.24	PK	28	-33.4	0	31.84	-	-	74	-42.16	-	-	0-360	200	V
4	3.46	51.85	PK	33	-31.3	0	53.55	-	-	-	-	68.2	-14.65	0-360	100	V
5	6.92	32.44	PK	35.6	-28.7	0	39.34	-	-	-	-	68.2	-28.86	0-360	100	V
6	10.381	34.89	PK	37.3	-25.6	0	46.59	-	-	-	-	68.2	-21.61	0-360	100	V

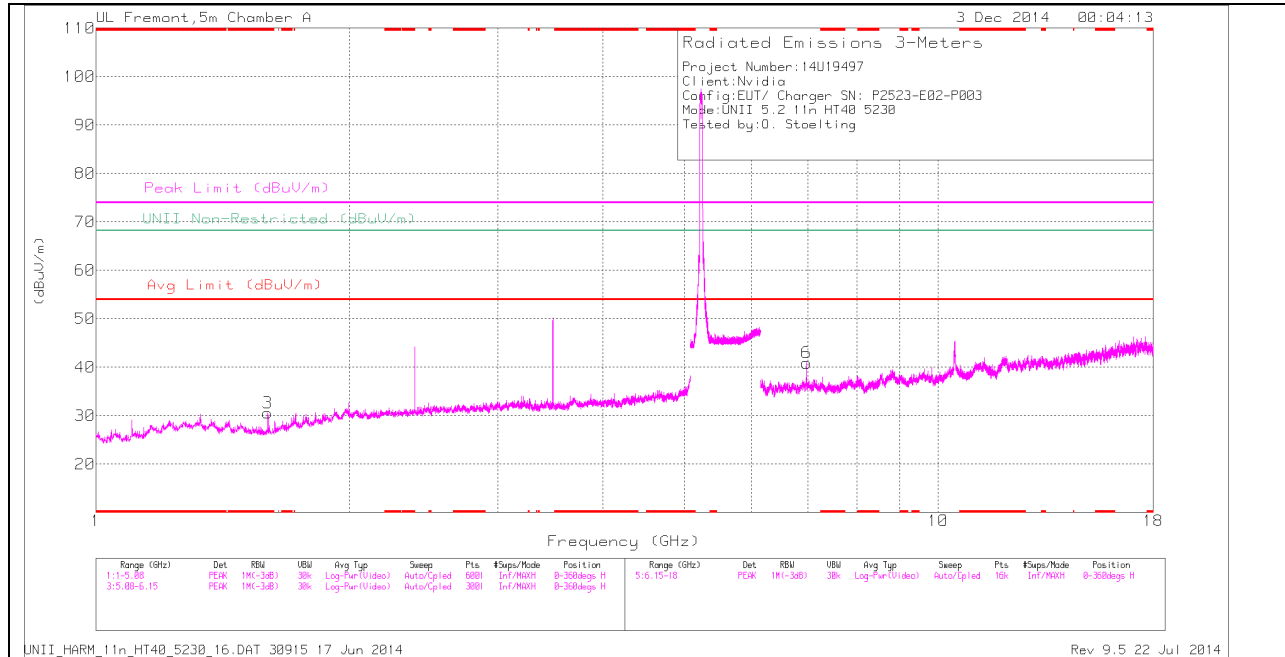
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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
* 1.326	42.17	PK1	29.9	-33.6	0	38.47	-	-	74	-35.53	-	-	140	287	H
* 1.327	30.15	AD1	29.9	-33.6	1.07	27.52	54	-26.48	-	-	-	-	140	287	H
* 1.103	44.65	PK1	27.3	-33.5	0	38.45	-	-	74	-35.55	-	-	182	206	V
* 1.103	35.72	AD1	27.3	-33.5	1.07	30.59	54	-23.41	-	-	-	-	182	206	V
* 1.139	43.92	PK1	28	-33.4	0	38.52	-	-	74	-35.48	-	-	10	203	V
* 1.139	33.75	AD1	28	-33.4	1.07	29.42	54	-24.58	-	-	-	-	10	203	V
3.46	53.88	PK1	33	-31.3	0	55.58	-	-	-	-	68.2	-12.62	265	183	V
3.46	46.43	AD1	33	-31.3	1.07	49.2	-	-	-	-	-	-	265	183	V
6.92	41.12	PK1	35.6	-28.7	0	48.02	-	-	-	-	68.2	-20.18	88	132	V
6.92	32.17	AD1	35.6	-28.7	1.07	40.14	-	-	-	-	-	-	88	132	V
10.381	46.83	PK1	37.3	-25.6	0	58.53	-	-	-	-	68.2	-9.67	240	130	V
10.381	32.98	AD1	37.3	-25.6	1.07	45.75	-	-	-	-	-	-	240	130	V

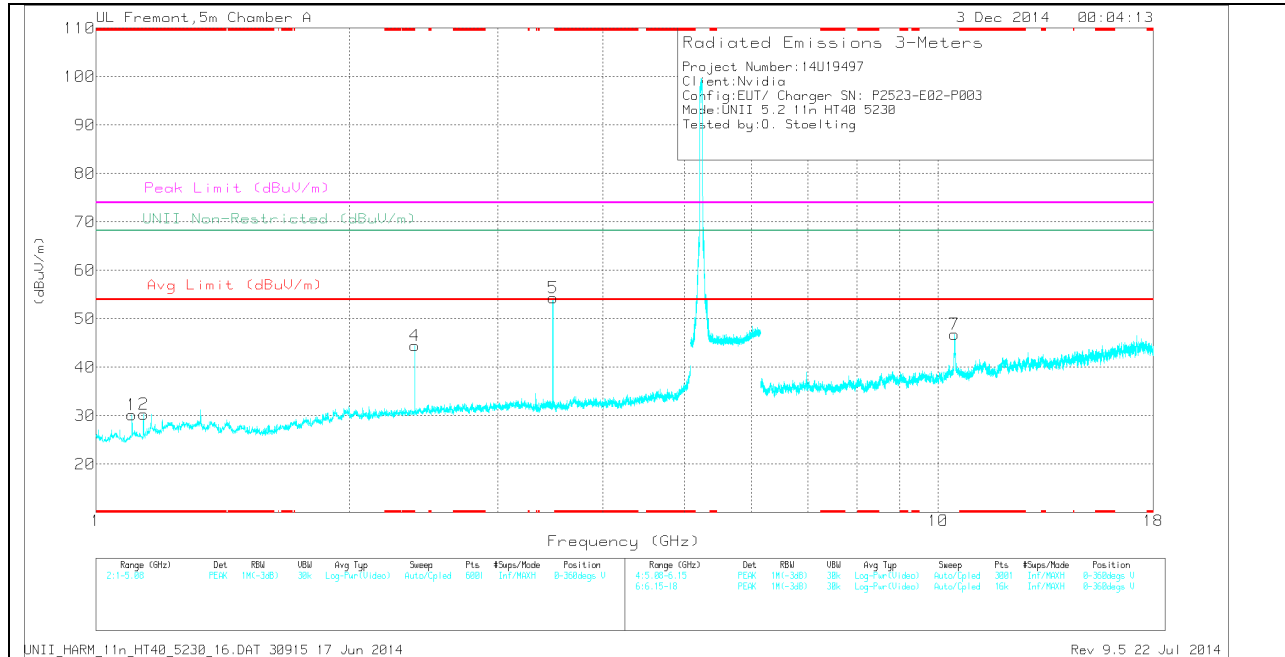
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MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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
3	* 1.6	35.88	PK	28	-33.3	0	30.58	-	-	74	-43.42	-	-	0-360	100	H
1	* 1.103	36.37	PK	27.3	-33.5	0	30.17	-	-	74	-43.83	-	-	0-360	200	V
2	* 1.139	35.68	PK	28	-33.4	0	30.28	-	-	74	-43.72	-	-	0-360	200	V
4	2.391	45.1	PK	32.1	-32.7	0	44.5	-	-	-	-	68.2	-23.7	0-360	100	V
5	3.487	52.84	PK	33	-31.5	0	54.34	-	-	-	-	68.2	-13.86	0-360	200	V
6	6.973	33.9	PK	35.6	-28.6	0	40.9	-	-	-	-	68.2	-27.3	0-360	200	H
7	10.456	35.19	PK	37.4	-25.8	0	46.79	-	-	-	-	68.2	-21.41	0-360	100	V

PK - Peak detector

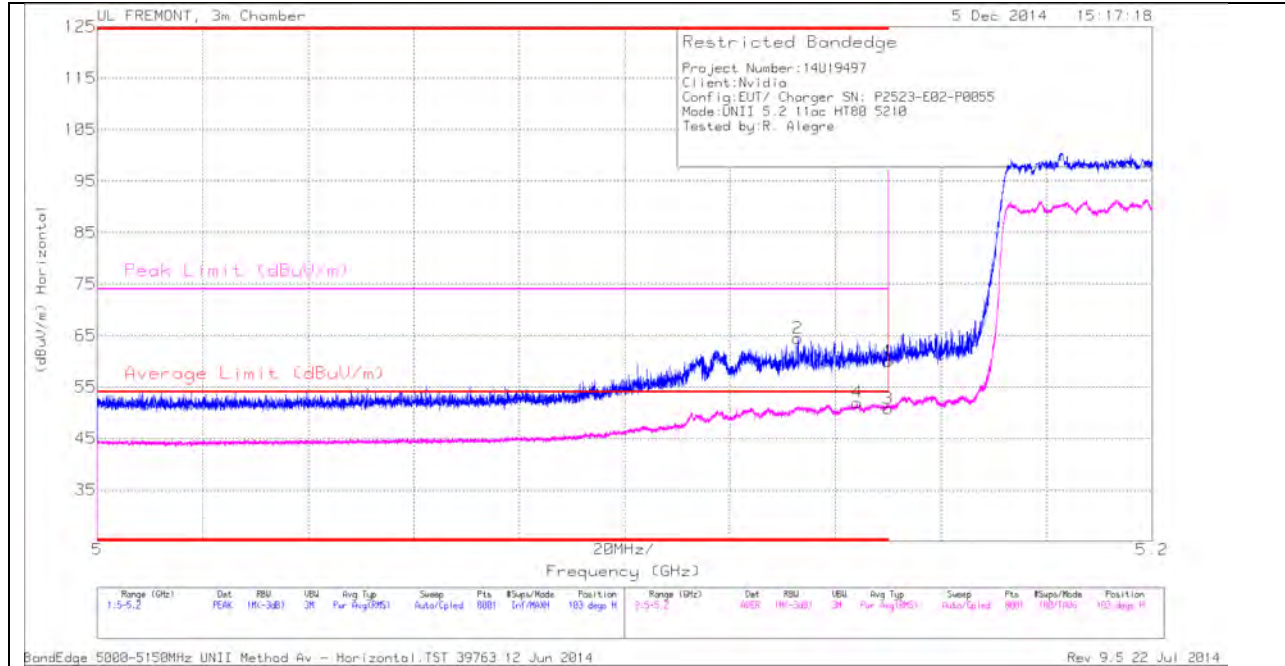
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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
* 1.599	48	PK1	28.1	-33.3	0	42.8	-	-	74	-31.2	-	-	243	197	H
* 1.6	30.06	AD1	28	-33.3	1.07	25.83	54	-28.17	-	-	-	-	243	197	H
* 1.103	44.86	PK1	27.3	-33.5	0	38.66	-	-	74	-35.34	-	-	191	136	V
* 1.103	36.68	AD1	27.3	-33.5	1.07	31.55	54	-22.45	-	-	-	-	191	136	V
* 1.139	43.37	PK1	28	-33.4	0	37.97	-	-	74	-36.03	-	-	175	294	V
* 1.139	33.14	AD1	28	-33.4	1.07	28.81	54	-25.19	-	-	-	-	175	294	V
2.391	41.46	PK1	32.1	-32.7	0	40.86	-	-	-	-	68.2	-27.34	74	179	V
2.391	29.4	AD1	32.1	-32.7	1.07	29.87	-	-	-	-	-	-	74	179	V
3.487	55.89	PK1	33	-31.5	0	57.39	-	-	-	-	68.2	-10.81	264	204	V
3.487	48.77	AD1	33	-31.5	1.07	51.34	-	-	-	-	-	-	264	204	V
6.973	41.33	PK1	35.6	-28.6	0	48.33	-	-	-	-	68.2	-19.87	66	163	H
6.973	32.44	AD1	35.6	-28.6	1.07	40.51	-	-	-	-	-	-	66	163	H

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14.1.3. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.2 GHz BAND RESTRICTED BANDEDGE (LOW CHANNEL)

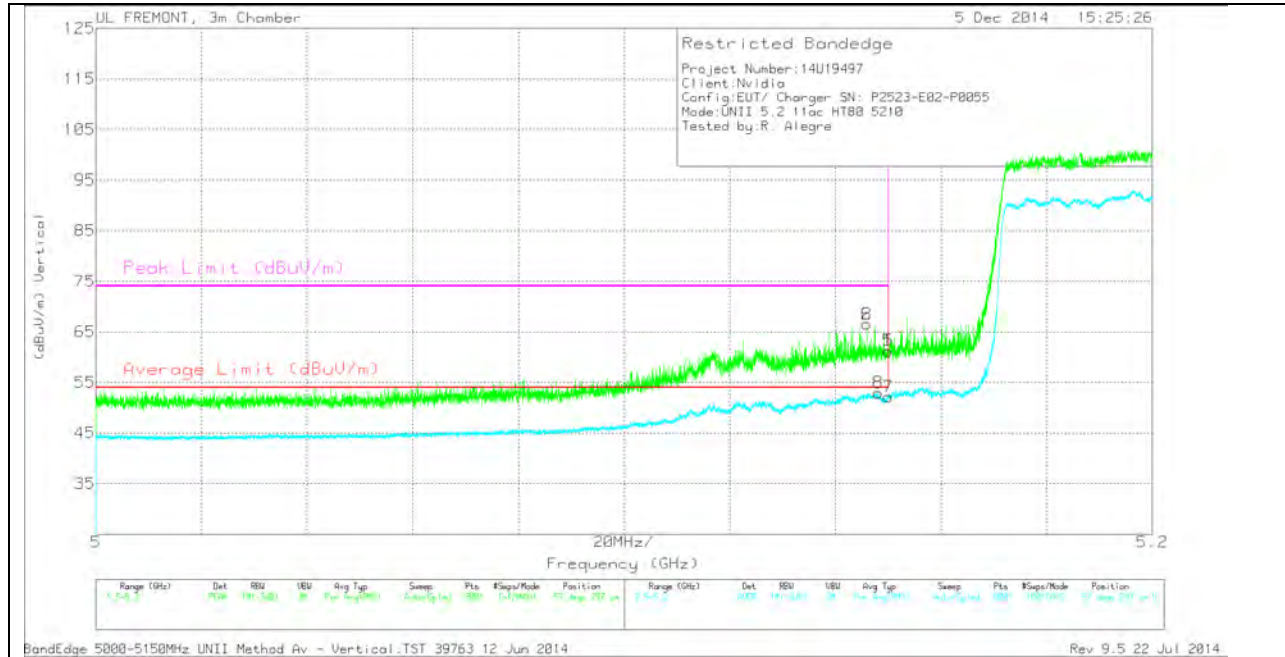
HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cb/Filter/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	* 5.15	47.37	PK	34.2	-21.6	0	59.97	-	-	74	-14.03	103	369	H
2	* 5.133	51.75	PK	34.2	-21.5	0	64.45	-	-	74	-9.55	103	369	H
3	* 5.15	36.37	RMS	34.2	-21.6	1.85	50.82	54	-3.18	-	-	103	369	H
4	* 5.144	37.53	RMS	34.2	-21.6	1.85	51.98	54	-2.02	-	-	103	369	H

VERTICAL PEAK AND AVERAGE PLOT

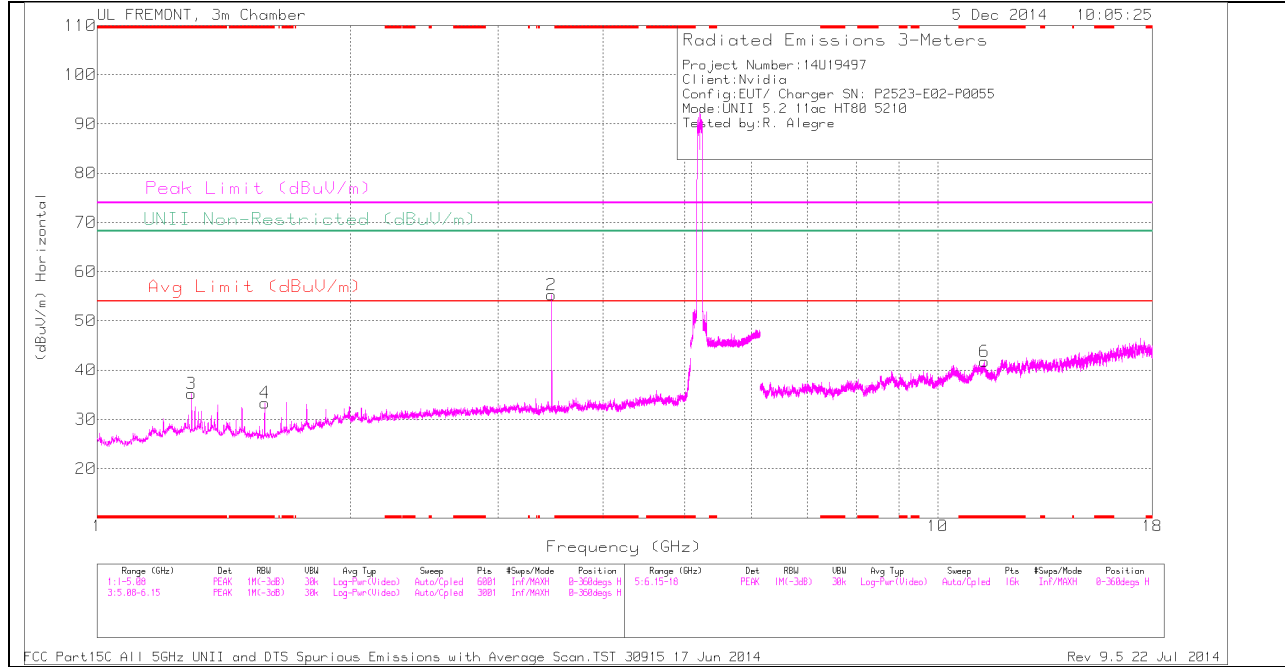


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT119 (dB/m)	Amp/Cbl/Fit r/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
2	5.146	53.92	PK	34.2	-21.6	0	66.52	-	-	74	-7.48	57	297	V
6	5.146	53.92	PK	34.2	-21.6	0	66.52	-	-	74	-7.48	57	297	V
4	5.148	38.51	RMS	34.2	-21.6	1.85	52.96	54	-1.04	-	-	57	297	V
8	5.148	38.51	RMS	34.2	-21.6	1.85	52.96	54	-1.04	-	-	57	297	V
1	5.15	48.68	PK	34.2	-21.6	0	61.28	-	-	74	-12.72	57	297	V
5	5.15	48.68	PK	34.2	-21.6	0	61.28	-	-	74	-12.72	57	297	V
3	5.15	37.68	RMS	34.2	-21.6	1.85	52.13	54	-1.87	-	-	57	297	V
7	5.15	37.68	RMS	34.2	-21.6	1.85	52.13	54	-1.87	-	-	57	297	V

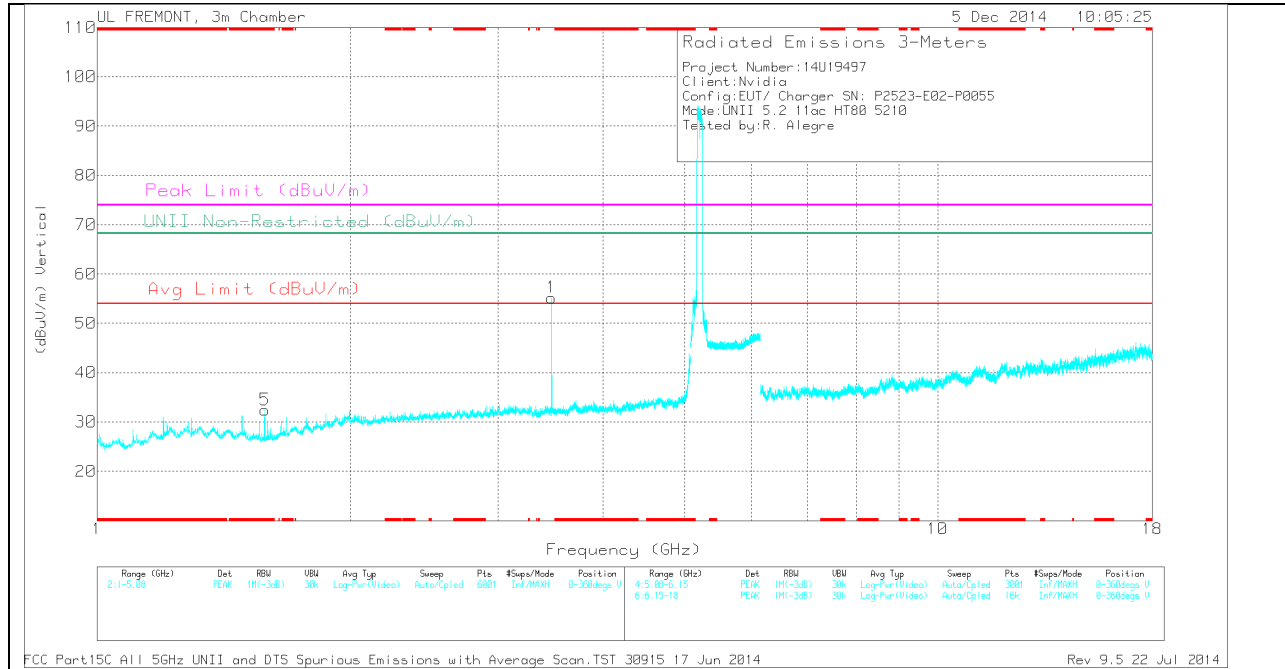
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/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
3	* 1.295	38.71	PK	30.2	-33.7	0	35.21	-	-	74	-38.79	-	-	0-360	200	H
4	* 1.583	38.63	PK	28.1	-33.4	0	33.33	-	-	74	-40.67	-	-	0-360	200	H
5	* 1.583	37.76	PK	28.1	-33.4	0	32.46	-	-	74	-41.54	-	-	0-360	200	V
6	* 11.363	29.54	PK	38.1	-25.9	0	41.74	-	-	74	-32.26	-	-	0-360	100	H
2	3.473	53.67	PK	33	-31.4	0	55.27	-	-	-	-	68.2	-12.93	0-360	200	H
1	3.473	53.62	PK	33	-31.4	0	55.22	-	-	-	-	68.2	-12.98	0-360	200	V

PK - Peak detector

RADIATED EMISSIONS

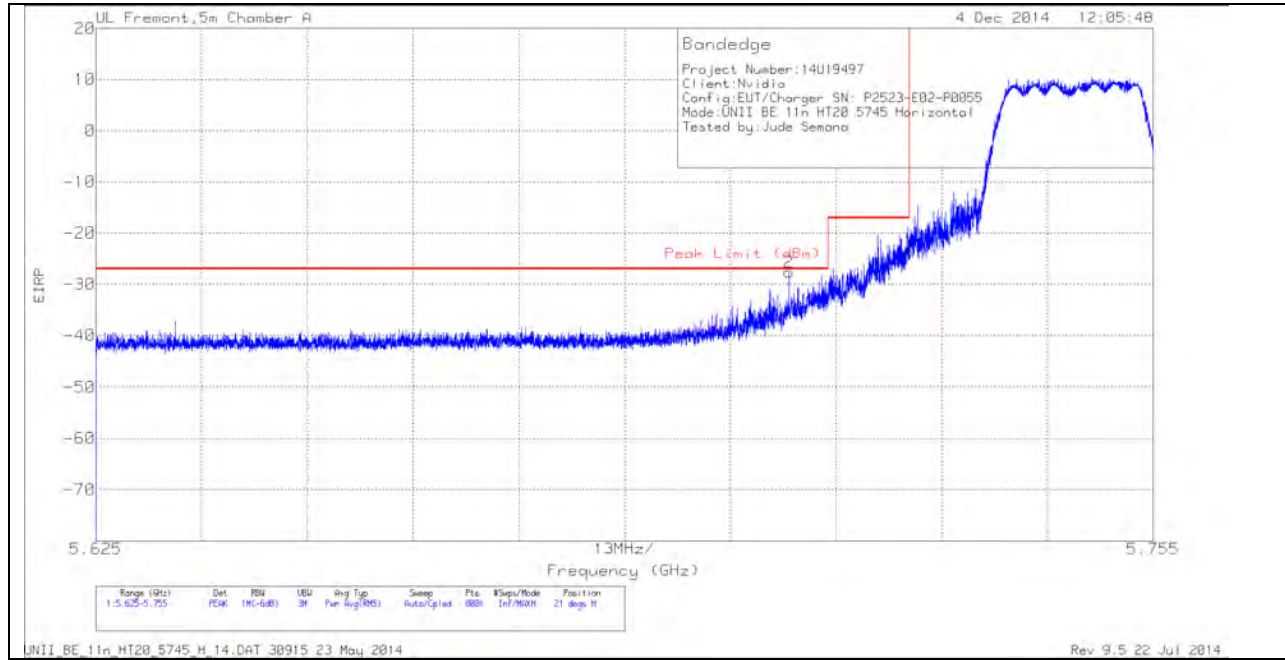
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T119 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.295	42.3	PK1	30.2	-33.7	0	38.8	-	-	74	-35.2	-	-	308	200	H
* 1.295	33.05	AD1	30.2	-33.7	1.85	31.4	54	-22.6	-	-	-	-	308	200	H
* 1.583	45.57	PK1	28.1	-33.4	0	40.27	-	-	74	-33.73	-	-	74	135	H
* 1.583	37.5	AD1	28.1	-33.4	1.85	34.05	54	-19.95	-	-	-	-	74	135	H
3.473	55.91	PK1	33	-31.4	0	57.51	-	-	-	-	68.2	-10.69	285	188	H
3.473	50.32	AD1	33	-31.4	1.85	53.77	54	-0.23	-	-	-	-	285	188	H
3.473	55.08	PK1	33	-31.4	0	56.68	-	-	-	-	68.2	-11.52	335	302	V
3.473	49.25	AD1	33	-31.4	1.85	52.7	54	-1.3	-	-	-	-	335	302	V

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14.2. 5.8 GHz

**14.2.1. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.8 GHz BAND
 HARMONICS AND SPURIOUS EMISSIONS**

HORIZONTAL PEAK AND AVERAGE PLOT



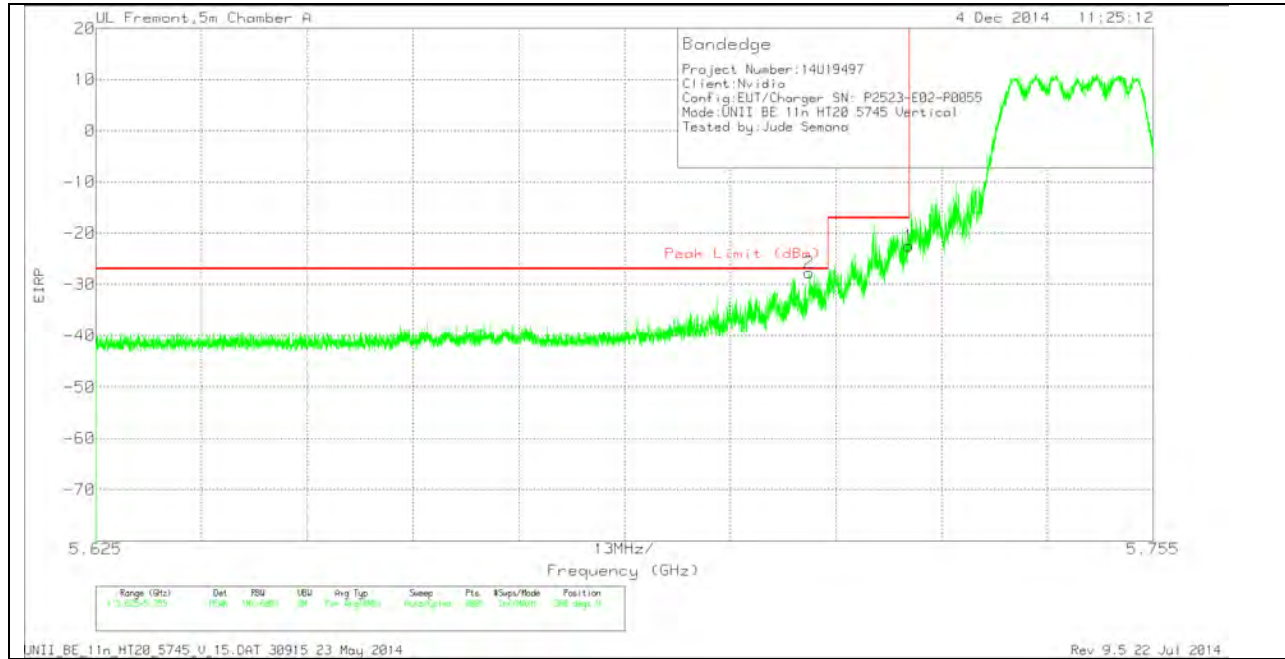
HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.71	-53.82	PK	34.5	-20.1	11.8	0	-27.62	-27	-6.2	21	346	H
1	5.725	-50.03	PK	34.6	-20.1	11.8	0	-23.73	-17	-6.73	21	346	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

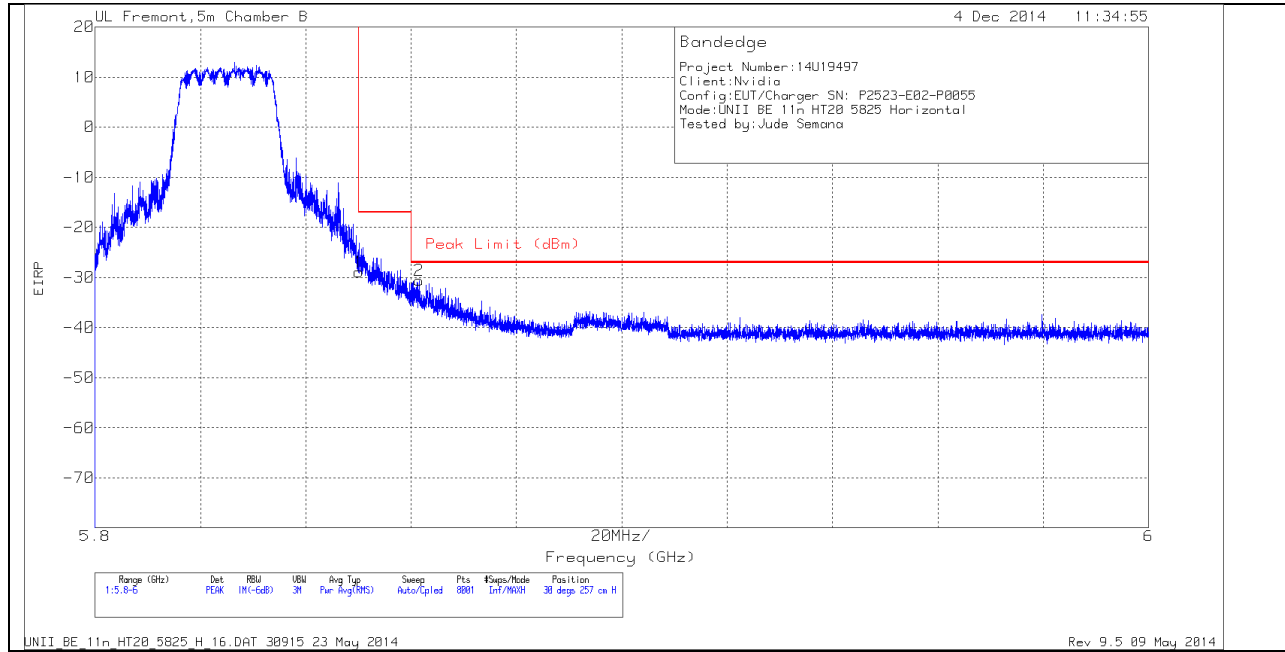
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.713	-53.89	PK	34.5	-20.1	11.8	0	-27.69	-27	-69	308	181	V
1	5.725	-48.71	PK	34.6	-20.1	11.8	0	-22.41	-17	-5.41	308	181	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

AUTHORIZED BANDEGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

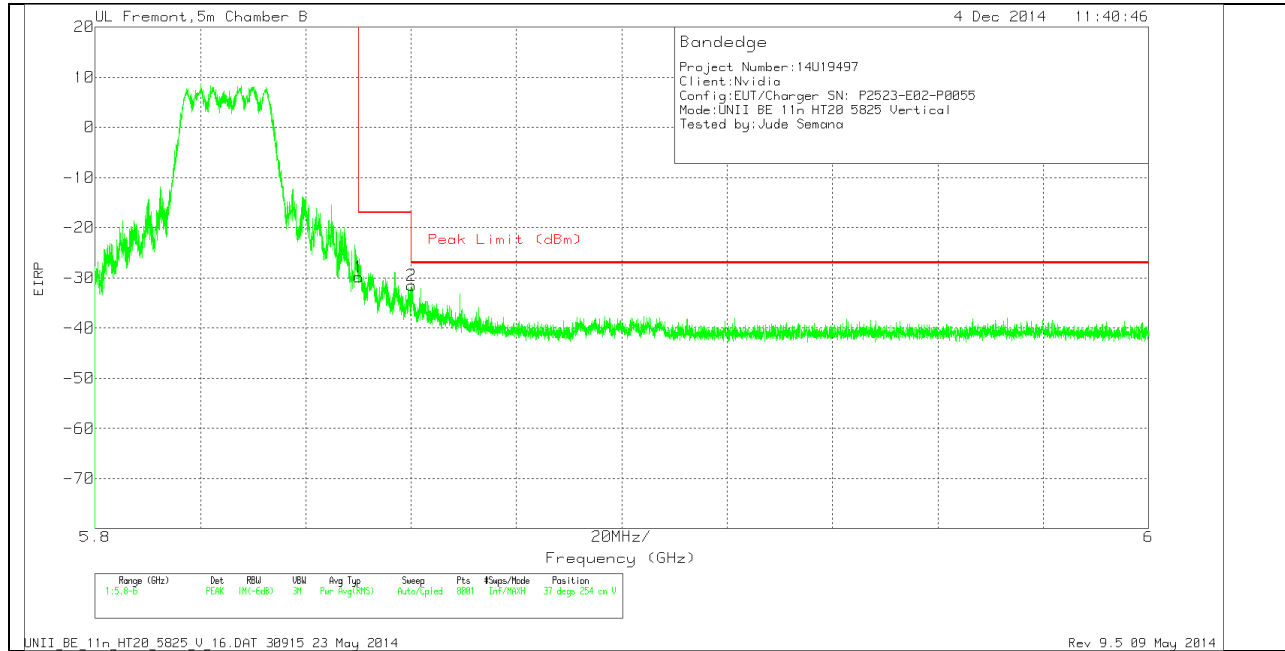


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-55.57	PK	34.8	-19.9	11.8	0	-28.87	-17	-11.87	30	257	H
2	5.861	-57.31	PK	34.8	-19.9	11.8	0	-30.61	-27	-3.61	30	257	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

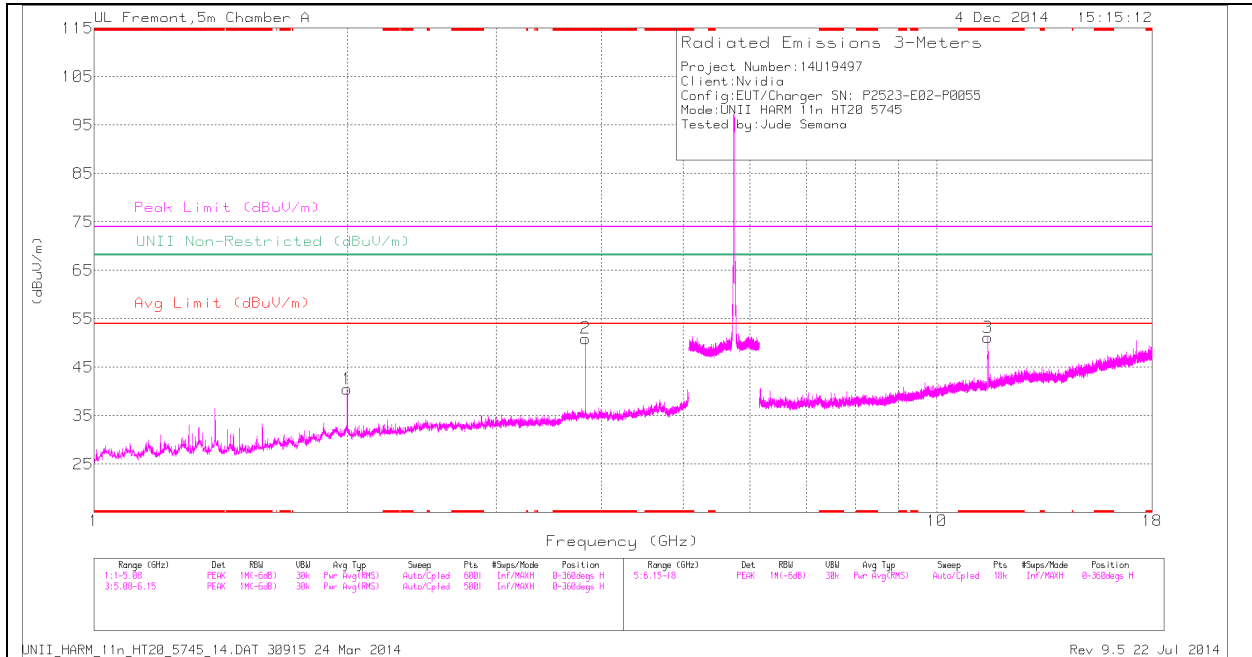


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-56.52	PK	34.8	-19.9	11.8	0	-29.82	-17	-12.82	37	254	V
2	5.86	-58.19	PK	34.8	-19.9	11.8	0	-31.49	-27	-4.49	37	254	V

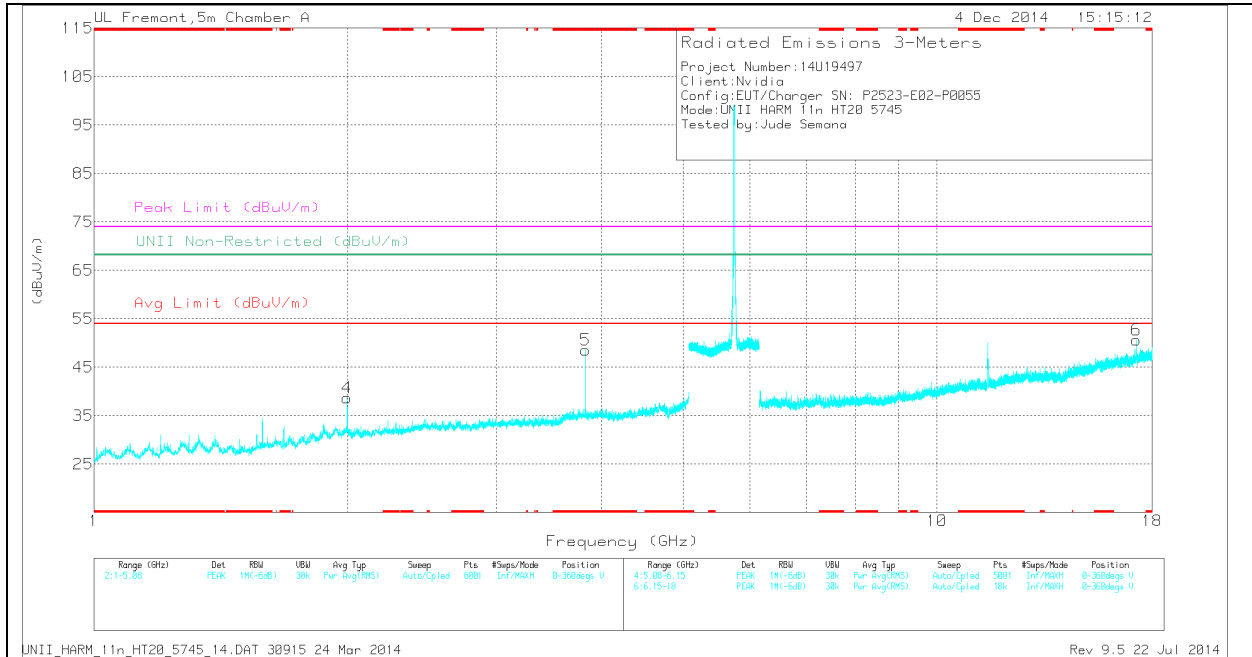
PK - Peak detector

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.83	48.56	PK	33.7	-31.3	0	50.96	-	-	74	-23.04	-	-	0-360	101	H
5	* 3.83	46.13	PK	33.7	-31.3	0	48.53	-	-	74	-25.47	-	-	0-360	200	V
3	* 11.491	36.01	PK	38	-22.9	0	51.11	-	-	74	-22.89	-	-	0-360	199	H
1	1.997	42.34	PK	31.3	-33.1	0	40.54	-	-	-	-	68.2	-27.66	0-360	101	H
4	1.997	40.51	PK	31.3	-33.1	0	38.71	-	-	-	-	68.2	-29.49	0-360	200	V
6	17.237	28.96	PK	41.5	-19.8	0	50.66	-	-	-	-	68.2	-17.54	0-360	199	V

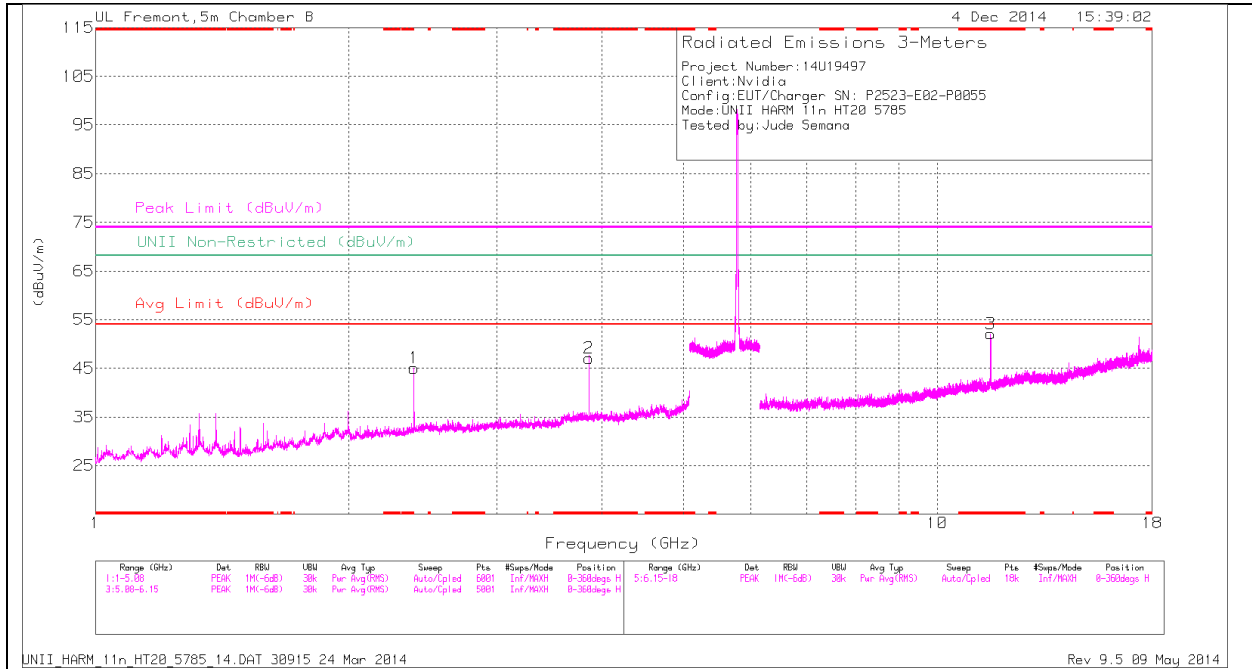
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.83	53.54	PK1	33.7	-31.3	0	55.94	-	-	74	-18.06	-	-	259	166	H
* 3.83	44.54	AD1	33.7	-31.3	.31	47.25	54	-6.75	-	-	-	-	259	166	H

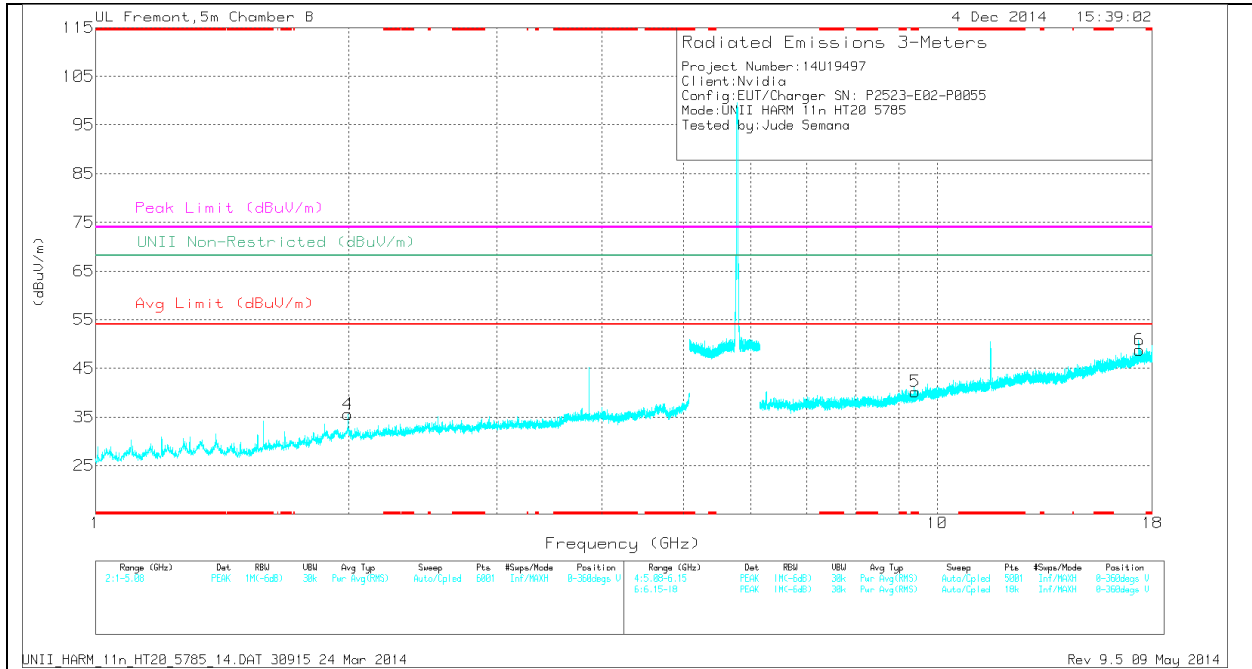
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

MID CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

MID CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.857	44.86	PK	33.7	-31.5	0	47.06	-	-	74	-26.94	-	-	0-360	101	H
3	* 11.568	36.29	PK	38.1	-22.3	0	52.09	-	-	74	-21.91	-	-	0-360	199	H
5	* 9.409	28.69	PK	36.5	-25	0	40.19	-	-	74	-33.81	-	-	0-360	199	V
4	1.996	37.35	PK	31.3	-33.1	0	35.55	-	-	-	-	68.2	-32.65	0-360	199	V
1	2.391	45.63	PK	32.1	-32.7	0	45.03	-	-	-	-	68.2	-23.17	0-360	101	H
6	17.388	26.76	PK	41.7	-19.7	0	48.76	-	-	-	-	68.2	-19.44	0-360	199	V

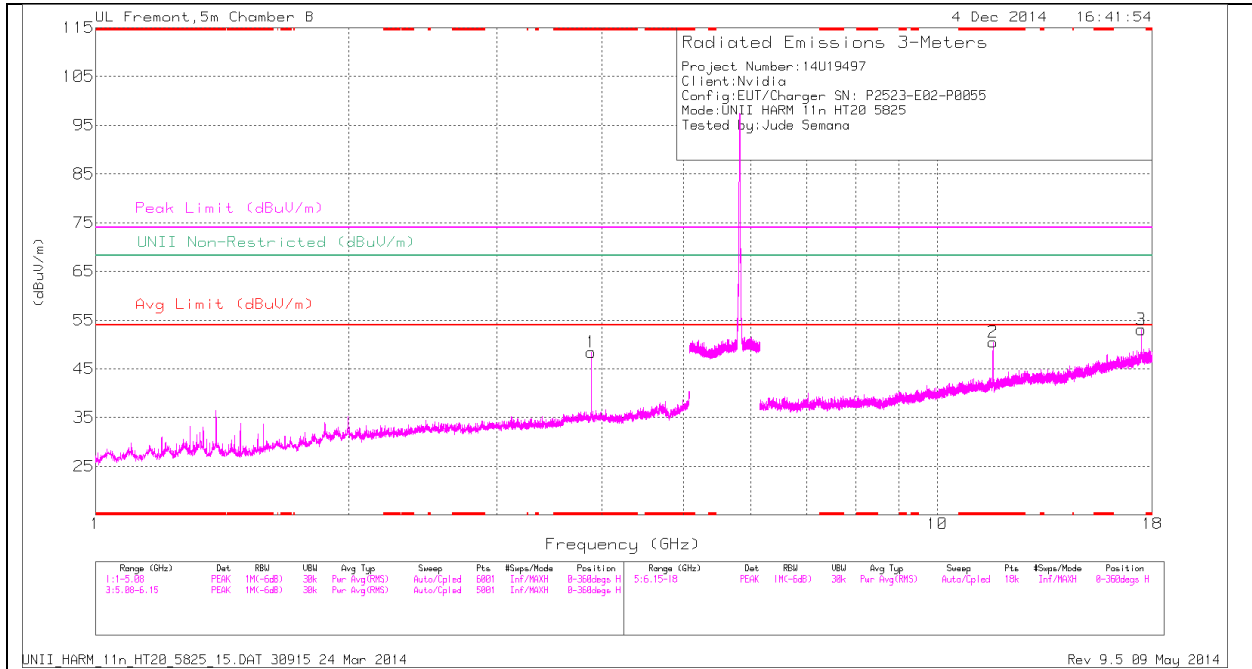
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 3.83	53.54	PK1	33.7	-31.3	0	55.94	-	-	74	-18.06	-	-	259	166	H
* 3.83	44.54	AD1	33.7	-31.3	0.3137	47.25	54	6.75	-	-	-	-	259	166	H

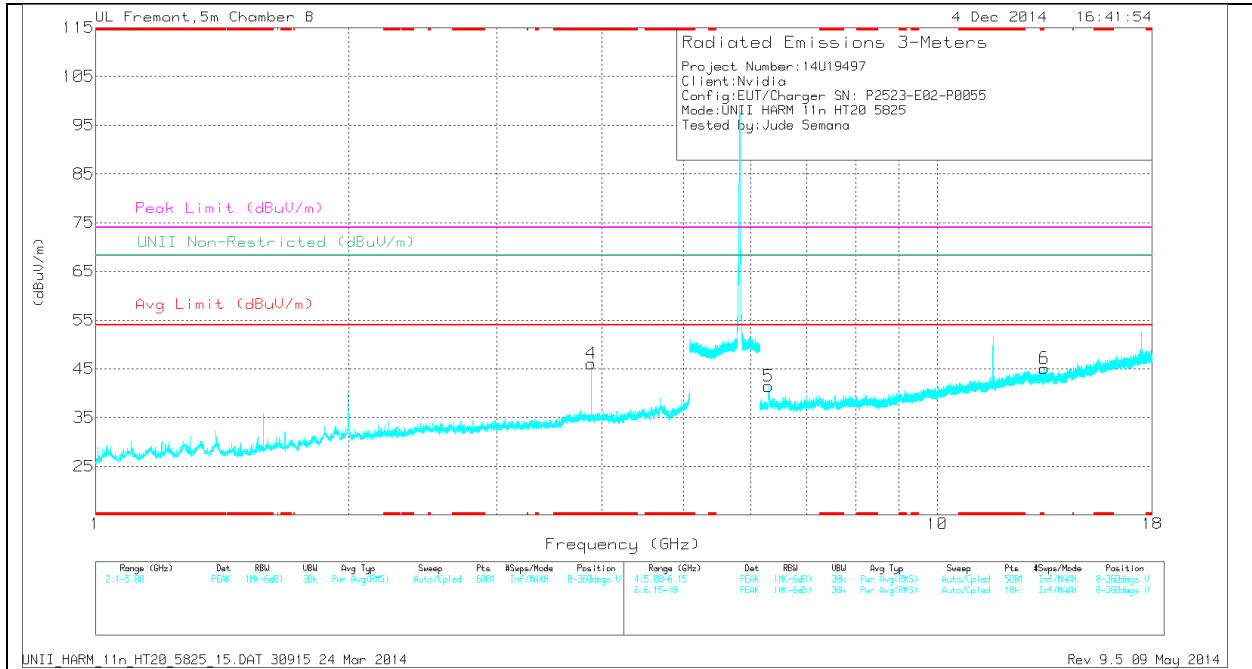
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 3.883	46.13	PK	33.8	-31.5	0	48.43	-	-	74	-25.57	-	-	0-360	101	H
4	* 3.883	43.78	PK	33.8	-31.5	0	46.08	-	-	74	-27.92	-	-	0-360	200	V
2	* 11.651	35.49	PK	38.1	-23.1	0	50.49	-	-	74	-23.51	-	-	0-360	200	H
5	6.303	34.94	PK	35.5	-29	0	41.44	-	-	-	-	68.2	-26.76	0-360	200	V
6	13.401	28.1	PK	39.2	-22.2	0	45.1	-	-	-	-	68.2	-23.1	0-360	101	V
3	17.477	31.24	PK	41.7	-19.9	0	53.04	-	-	-	-	68.2	-15.16	0-360	200	H

PK - Peak detector

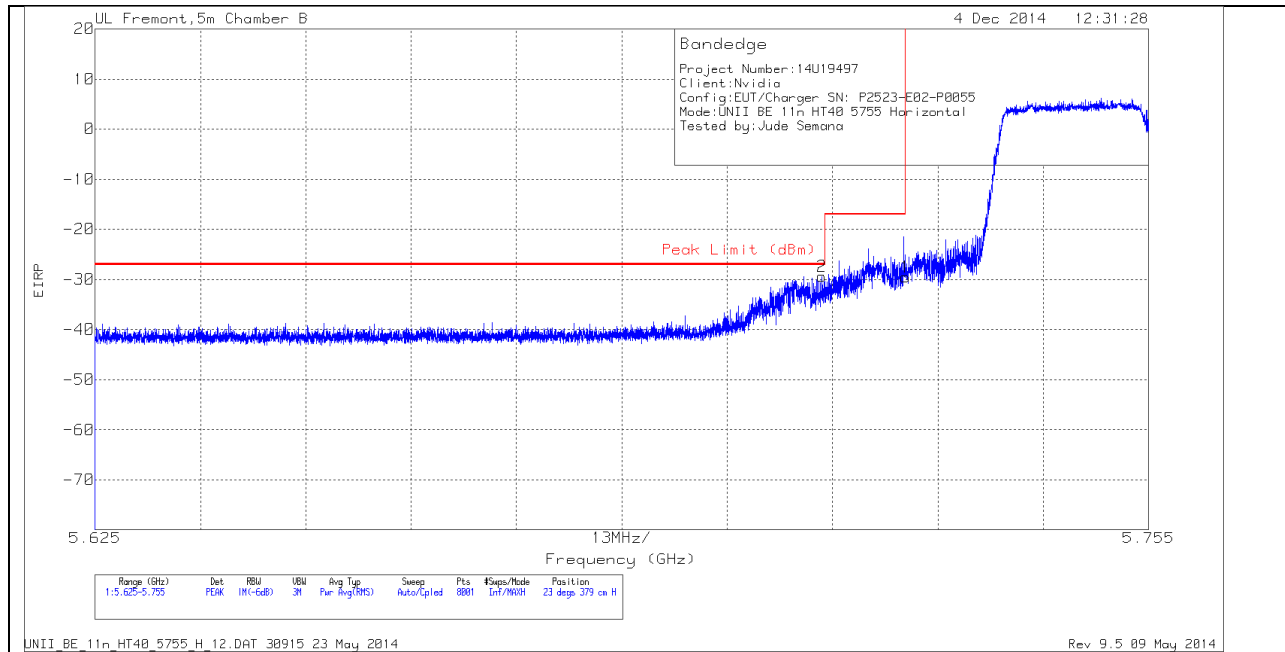
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 11.652	46.86	PK1	38.2	-23.1	0	61.96	-	-	74	-12.04	-	-	0	347	H
* 11.654	34.47	AD1	38.2	-23.1	0.3137	49.88	54	-4.12	-	-	-	-	0	347	H
* 11.648	43.96	PK1	38.1	-23	0	59.06	-	-	74	-14.94	-	-	25	206	V
* 11.651	32.19	AD1	38.1	-23.1	0.3137	47.50	54	-6.50	-	-	-	-	25	206	V
17.479	28.78	AD1	41.7	-19.9	0.3137	50.89	-	-	-	-	-	-	112	210	H
17.48	41.48	PK1	41.7	-19.9	0	63.28	-	-	-	-	68.2	-4.92	112	210	H

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

14.2.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

HORIZONTAL PEAK AND AVERAGE PLOT

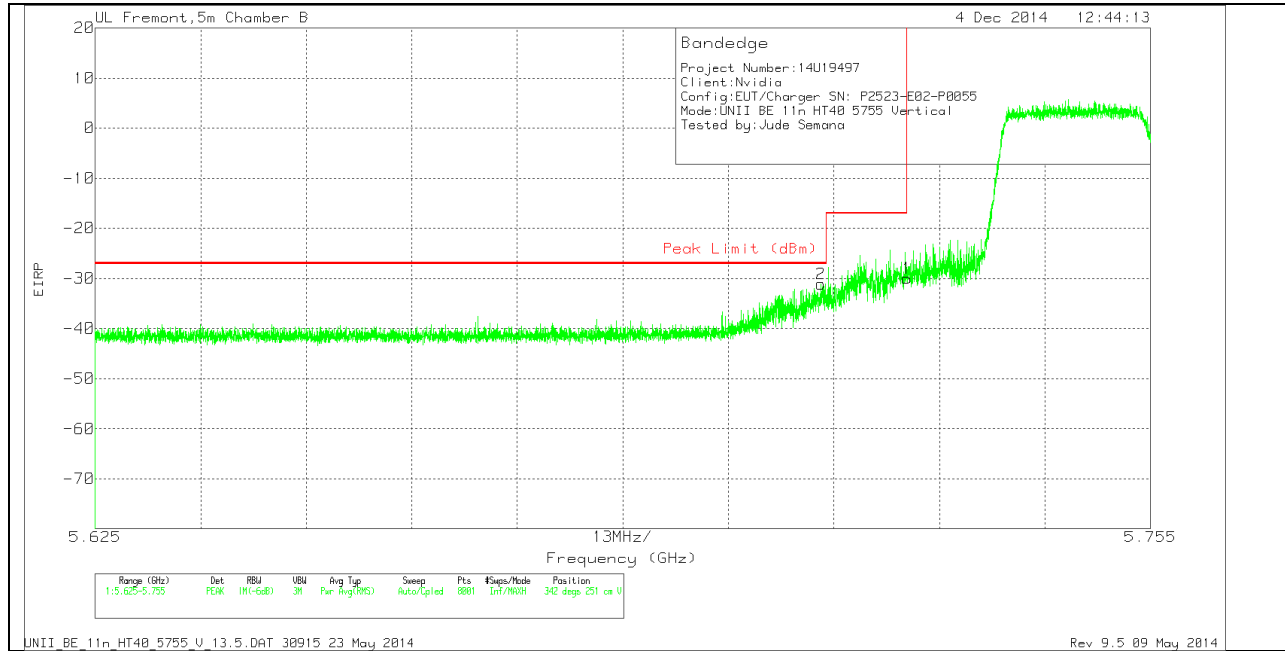


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.715	-55.59	PK	34.5	-20.1	11.8	0	-29.39	-27	-2.39	23	379	H
1	5.725	-55.83	PK	34.6	-20.1	11.8	0	-29.53	-17	-12.53	23	379	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



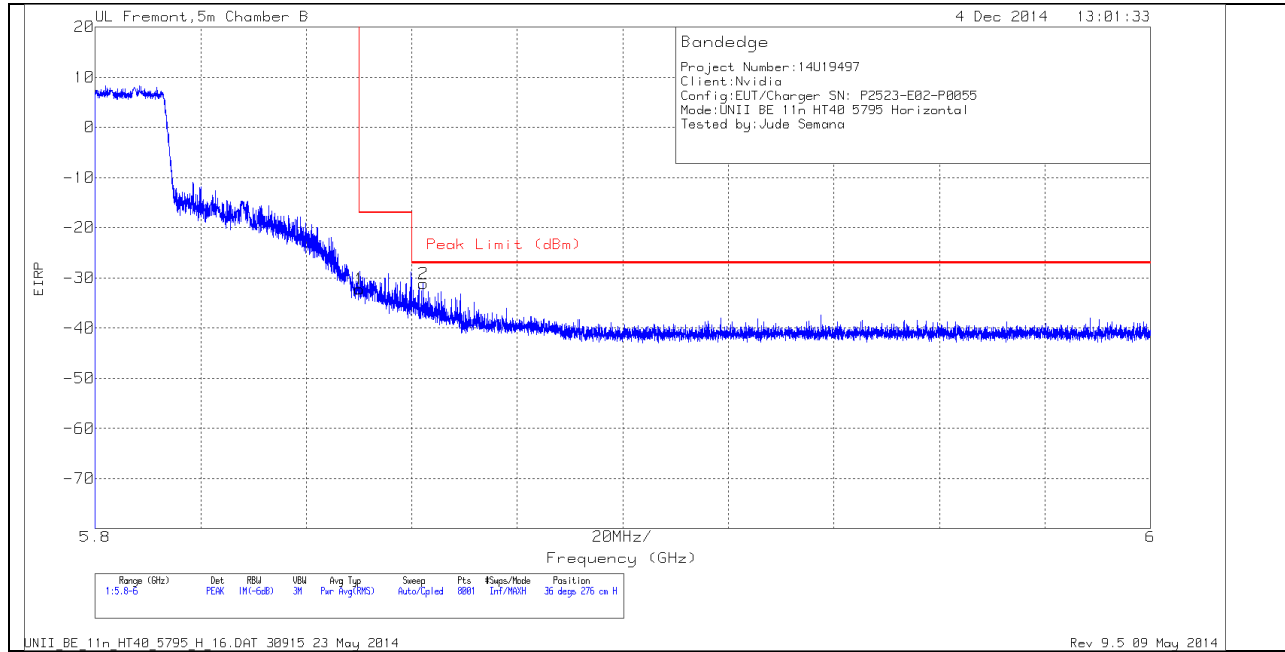
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cb/ Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.714	-57.3	PK	34.5	-20.1	11.8	0	-31.1	-27	-4.1	342	251	V
1	5.725	-56.28	PK	34.6	-20.1	11.8	0	-29.98	-17	-12.98	342	251	V

PK - Peak detector

AUTHORIZED BANDEGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

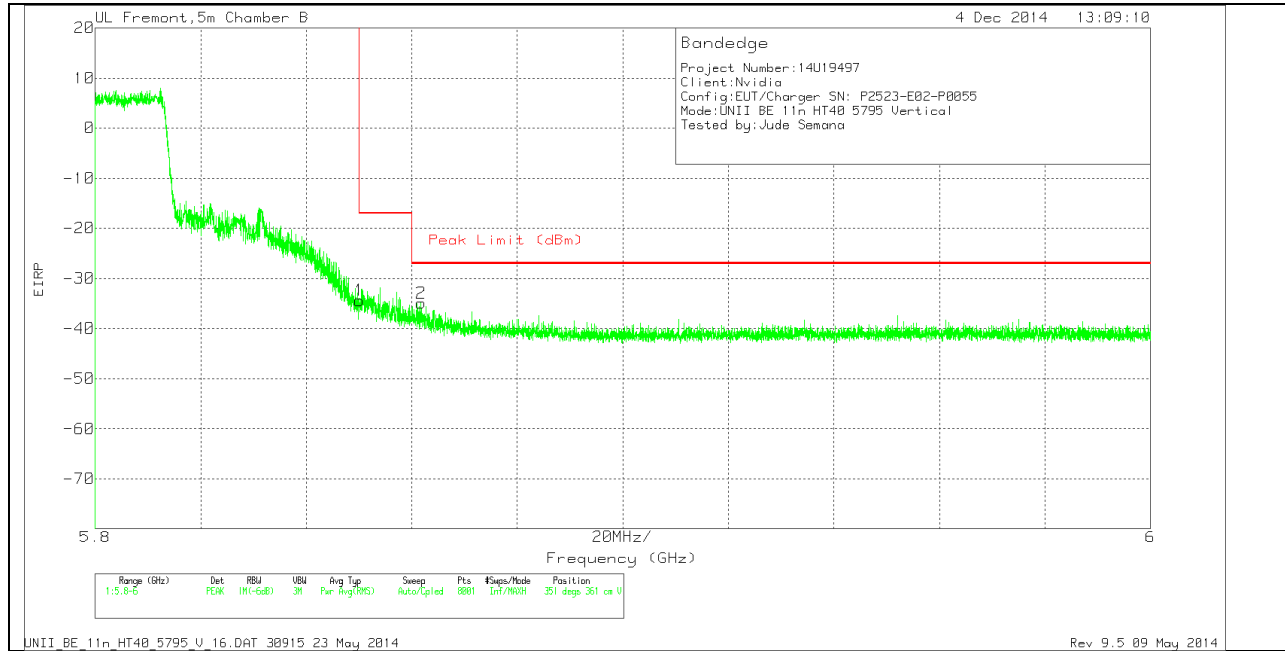


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-58.96	PK	34.8	-19.9	11.8	0	-32.26	-17	-15.26	36	276	H
2	5.862	-57.82	PK	34.8	-19.9	11.8	0	-31.12	-27	-4.12	36	276	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

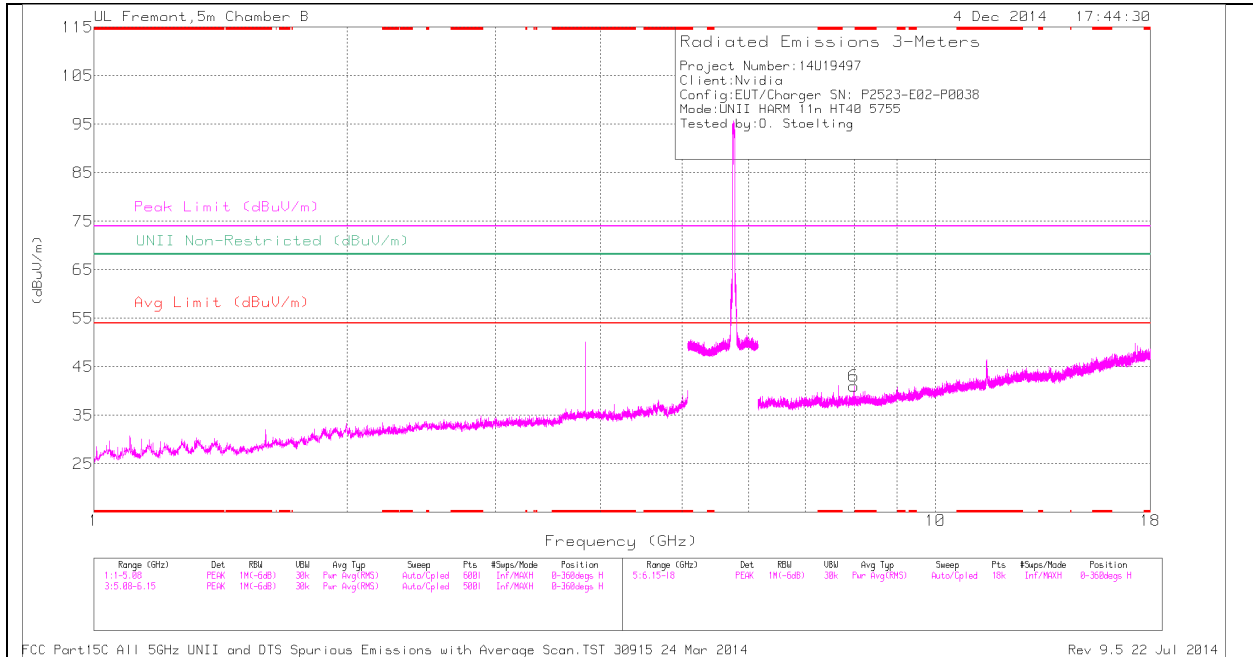


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-61.08	PK	34.8	-19.9	11.8	0	-34.38	-17	-17.38	351	361	V
2	5.862	-61.58	PK	34.8	-19.9	11.8	0	-34.88	-27	-7.88	351	361	V

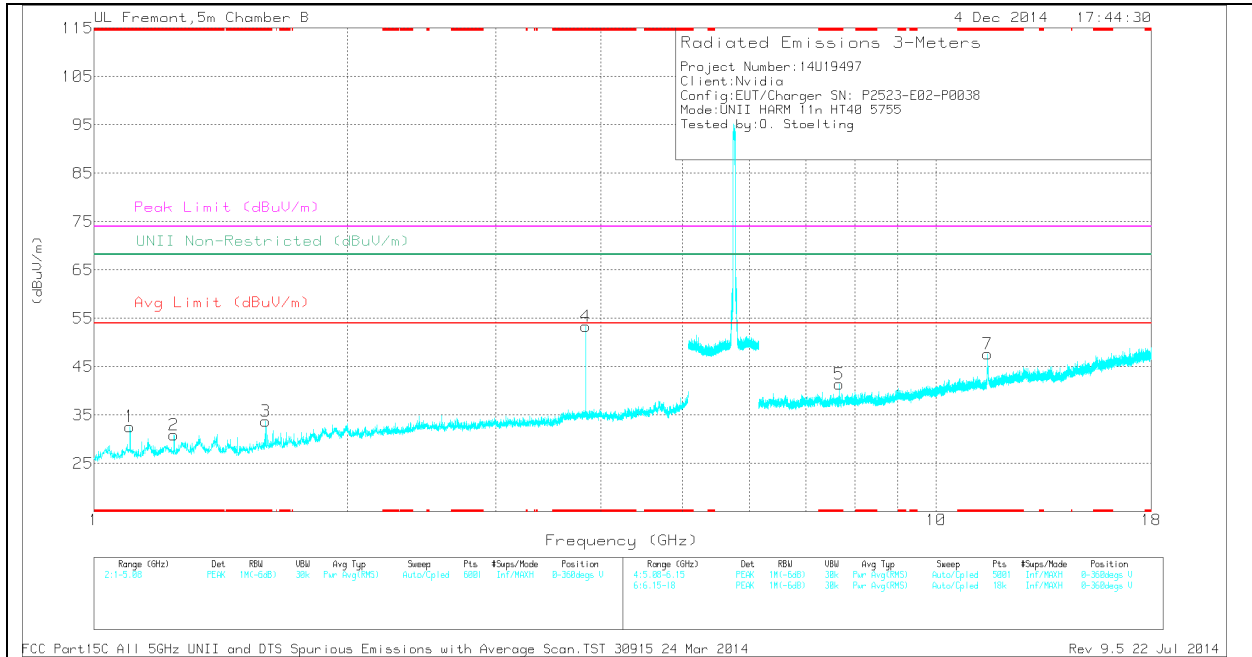
PK - Peak detector

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.103	39.65	PK	27.4	-34.4	0	32.65	-	-	74	-41.35	-	-	0-360	200	V
2	* 1.245	36.87	PK	28.5	-34.5	0	30.87	-	-	74	-43.13	-	-	0-360	101	V
3	* 1.6	38.44	PK	28.5	-33.2	0	33.74	-	-	74	-40.26	-	-	0-360	200	V
4	* 3.837	50.99	PK	33.7	-31.3	0	53.39	-	-	74	-20.61	-	-	0-360	200	V
5	* 7.673	33.39	PK	35.7	-27.7	0	41.39	-	-	74	-32.61	-	-	0-360	101	V
7	* 11.508	32.25	PK	38.1	-22.7	0	47.65	-	-	74	-26.35	-	-	0-360	101	V
6	8	32.43	PK	35.7	-27.1	0	41.03	-	-	-	-	68.2	-27.17	0-360	199	H

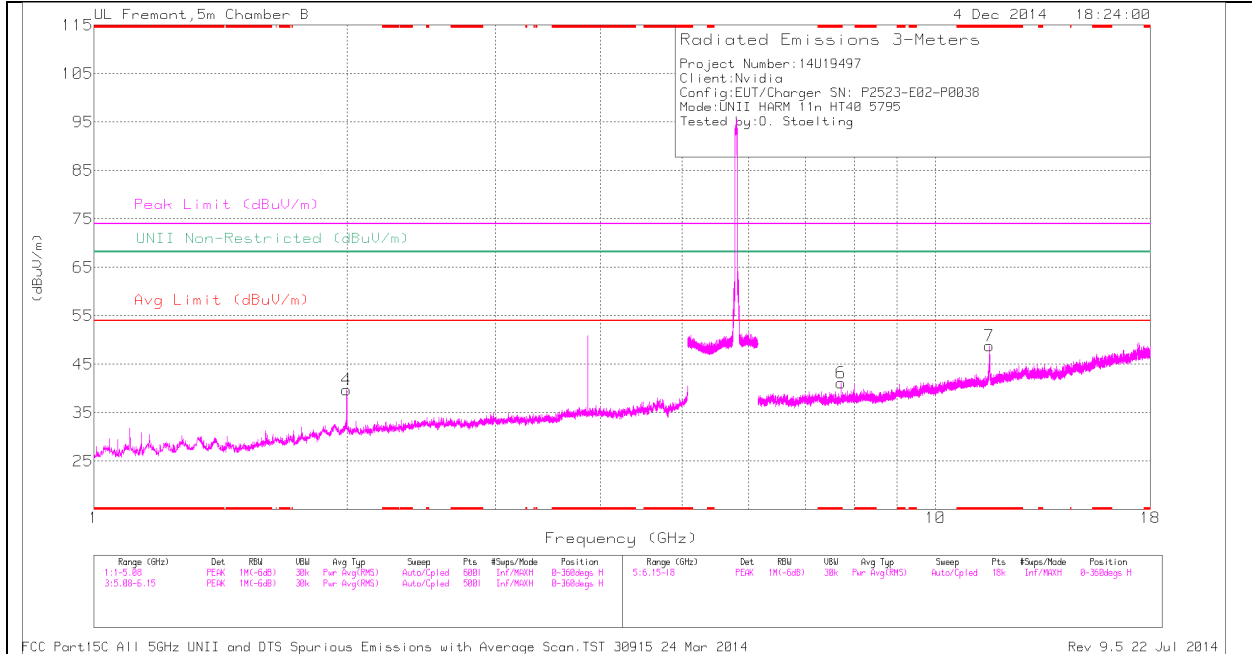
PK - Peak detector

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 1.103	46.34	PK1	27.4	-34.4	0	39.34	-	-	74	-34.66	-	-	4	192	V
* 1.103	37.31	AD1	27.4	-34.4	1.07	31.38	54	-22.62	-	-	-	-	4	192	V
* 1.599	42.61	PK1	28.5	-33.2	0	37.91	-	-	74	-36.09	-	-	5	223	V
* 1.6	30.65	AD1	28.5	-33.2	1.07	27.02	54	-26.98	-	-	-	-	5	223	V
* 3.837	53.14	PK1	33.7	-31.3	0	55.54	-	-	74	-18.46	-	-	357	173	V
* 3.837	47.19	AD1	33.7	-31.3	1.07	50.66	54	-3.34	-	-	-	-	357	173	V
* 11.508	37.69	PK1	38.1	-22.7	0	53.09	-	-	74	-20.91	-	-	165	139	V
* 11.509	25.6	AD1	38.1	-22.7	1.07	42.07	54	-11.93	-	-	-	-	165	139	V

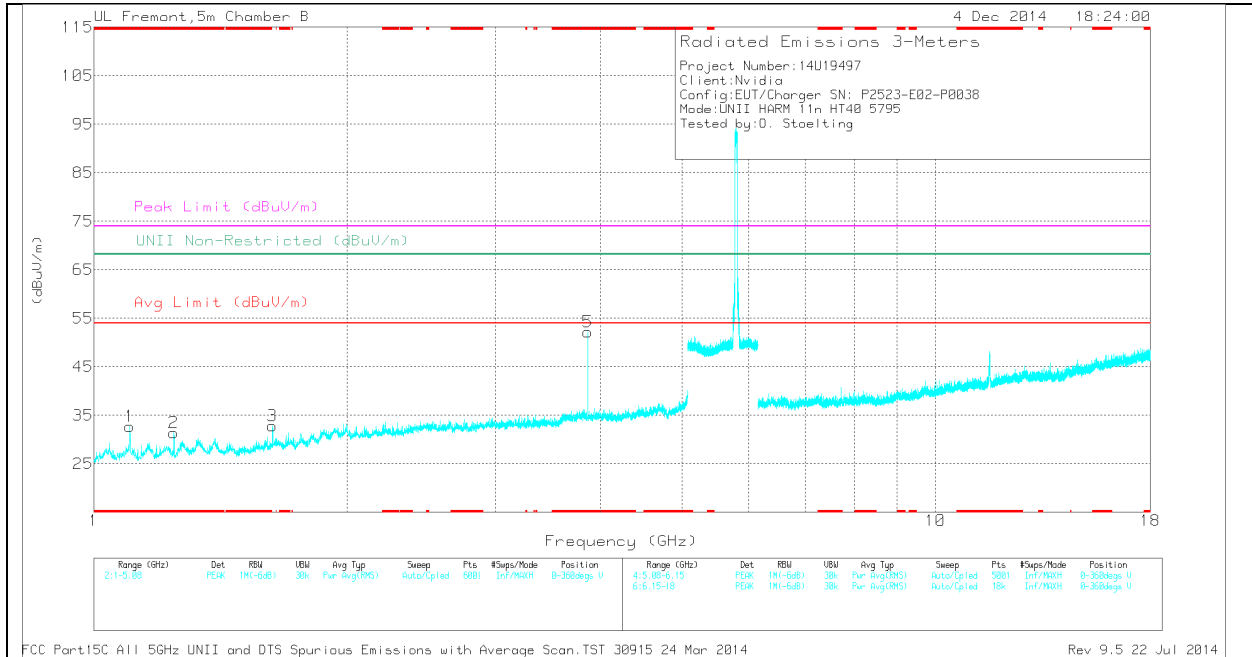
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HIGH CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

HIGH CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.103	39.72	PK	27.4	-34.4	0	32.72	-	-	74	-41.28	-	-	0-360	101	V
2	* 1.245	37.44	PK	28.5	-34.5	0	31.44	-	-	74	-42.56	-	-	0-360	101	V
5	* 3.863	50.07	PK	33.7	-31.6	0	52.17	-	-	74	-21.83	-	-	0-360	200	V
6	* 7.727	32.54	PK	35.7	-27.1	0	41.14	-	-	74	-32.86	-	-	0-360	101	H
7	* 11.591	33.47	PK	38.1	-22.7	0	48.87	-	-	74	-25.13	-	-	0-360	199	H
3	1.63	36.97	PK	28.7	-32.8	0	32.87	-	-	-	-	68.2	-35.33	0-360	200	V
4	1.997	41.56	PK	31.3	-33.1	0	39.76	-	-	-	-	68.2	-28.44	0-360	101	H

PK - Peak detector

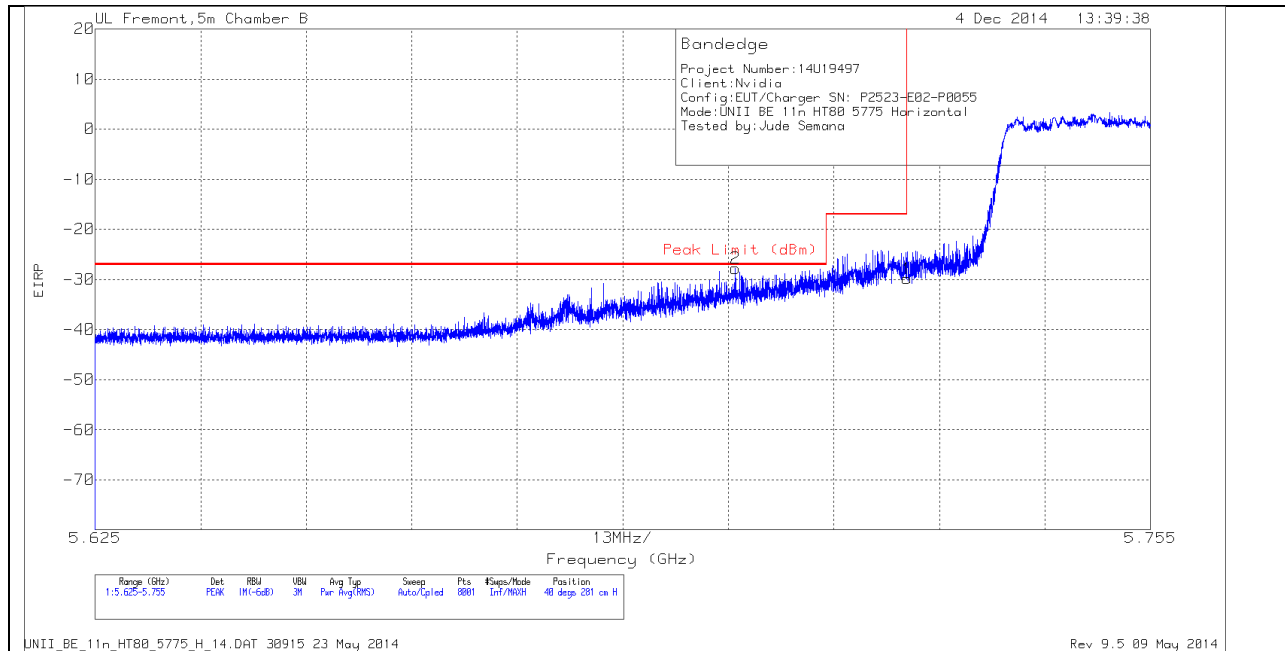
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 1.103	45.67	PK1	27.4	-34.4	0	38.67	-	-	74	-35.33	-	-	335	164	V
* 1.103	36.84	AD1	27.4	-34.4	1.07	30.91	54	-23.09	-	-	-	-	335	164	V
* 3.863	52.2	PK1	33.7	-31.6	0	54.3	-	-	74	-19.7	-	-	360	196	V
* 3.863	46.99	AD1	33.7	-31.6	1.07	50.16	54	-3.84	-	-	-	-	360	196	V
* 11.591	41.32	PK1	38.1	-22.7	0	56.72	-	-	74	-17.28	-	-	192	245	H
* 11.591	27.72	AD1	38.1	-22.7	1.07	44.19	54	-9.81	-	-	-	-	192	245	H
1.997	50.8	PK1	31.3	-33.1	0	49	-	-	-	-	68.2	-19.2	220	159	H
1.997	31.66	AD1	31.3	-33.1	1.07	30.93	-	-	-	-	-	-	220	159	H

FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

14.2.3. TX ABOVE 1 GHz 802.11ac HT80 MODE IN THE 5.8 GHz BAND HARMONICS AND SPURIOUS EMISSIONS

HORIZONTAL PEAK AND AVERAGE PLOT

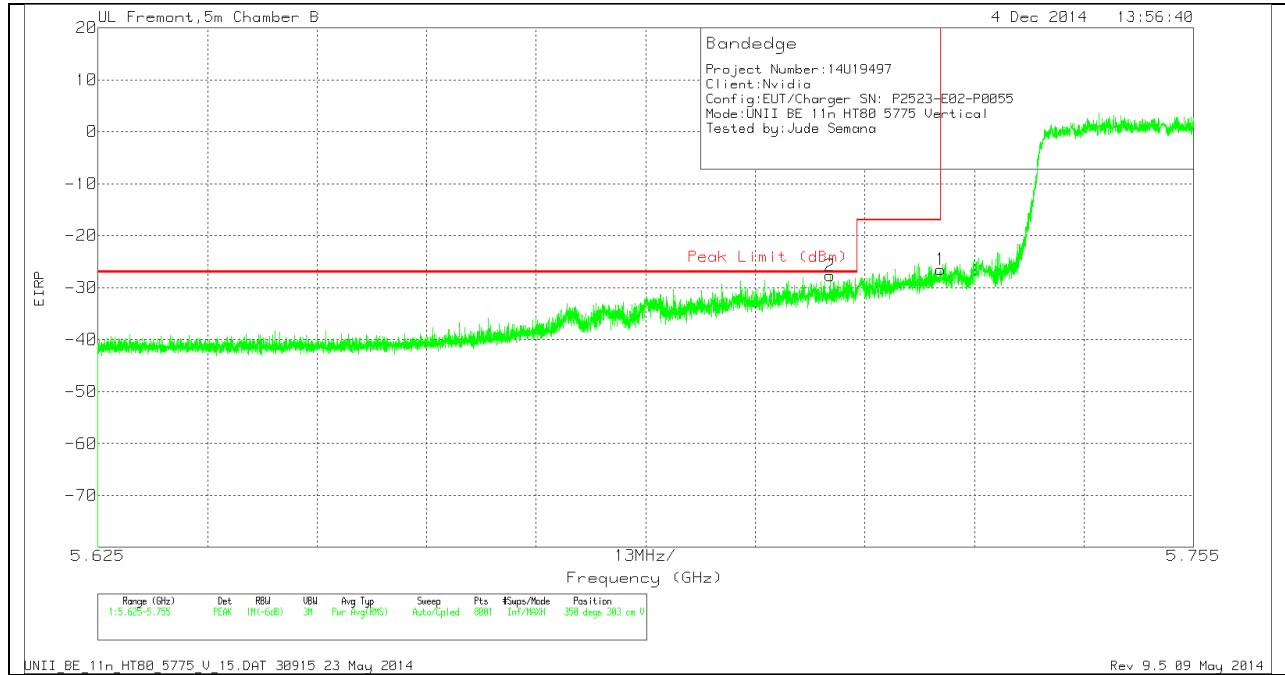


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AFT345 (dB/m)	Amp/Cb/ Fitr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.704	-53.98	PK	34.5	-20.1	11.8	0	-27.78	-27	-.78	40	281	H
1	5.725	-56.15	PK	34.6	-20.1	11.8	0	-29.85	-17	-12.85	40	281	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT



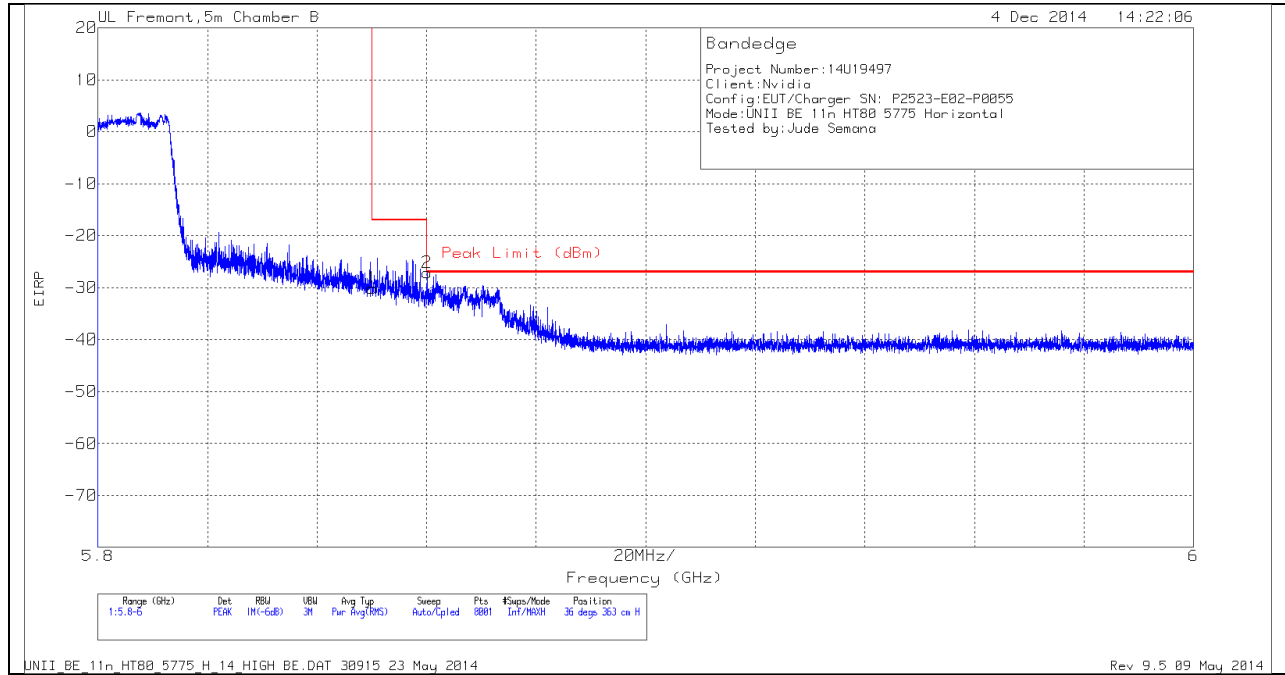
VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/Fi tr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.712	-53.9	PK	34.5	-20.1	11.8	0	-27.7	-27	-7	350	303	V
1	5.725	-52.83	PK	34.6	-20.1	11.8	0	-26.53	-17	-9.53	350	303	V

PK - Peak detector

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT

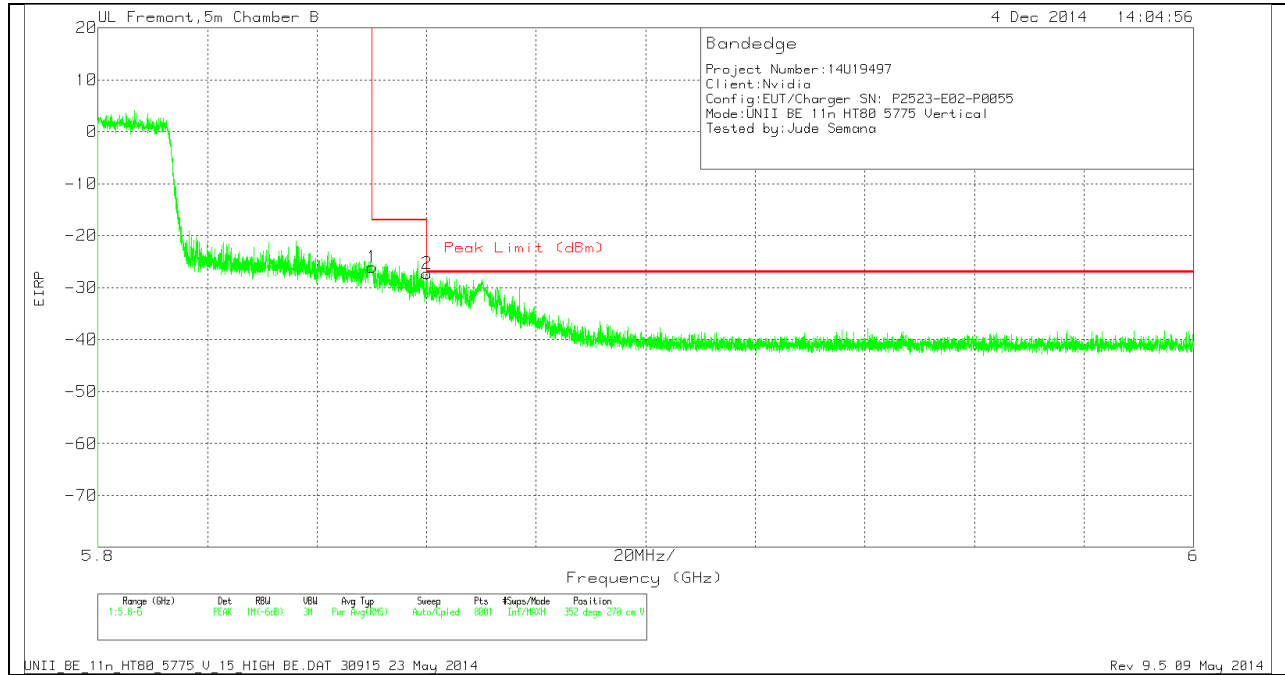


HORIZONTAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-56.79	PK	34.8	-19.9	11.8	0	-30.09	-17	-13.09	36	363	H
2	5.86	-53.84	PK	34.8	-19.9	11.8	0	-27.14	-27	-1.14	36	363	H

PK - Peak detector

VERTICAL PEAK AND AVERAGE PLOT

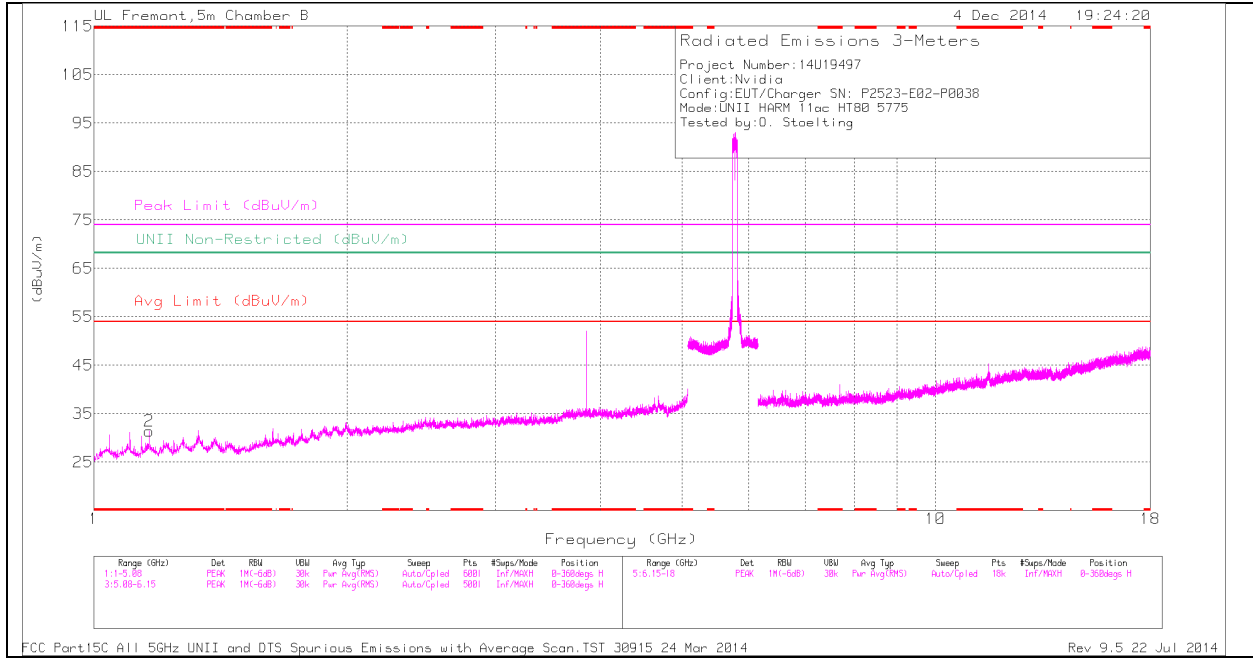


VERTICAL DATA

Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl/FI tr/Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Corrected Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-52.76	PK	34.8	-19.9	11.8	0	-26.06	-17	-9.06	352	270	V
2	5.86	-53.98	PK	34.8	-19.9	11.8	0	-27.28	-27	-.28	352	270	V

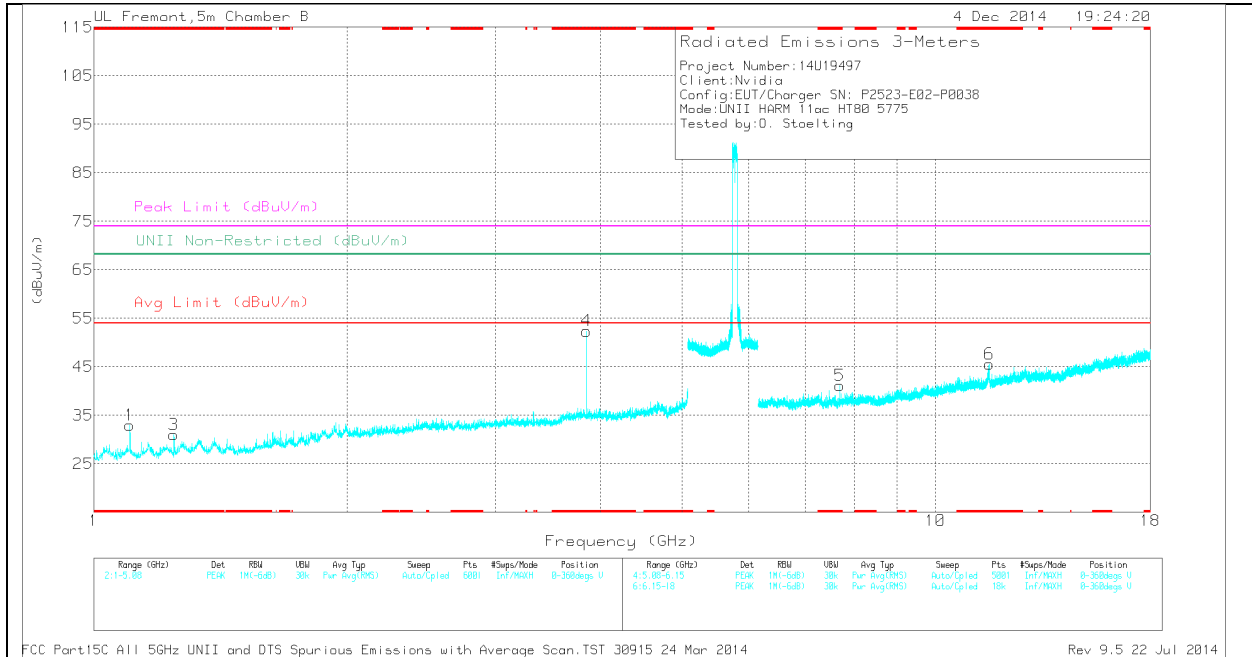
PK - Peak detector

LOW CHANNEL HORIZONTAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL VERTICAL



Note: Emission was scanned up to 40GHz; No emissions were detected above the noise floor which was at least 20dB below the specification limit.

LOW CHANNEL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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	* 1.163	38.06	PK	27.9	-34.5	0	31.46	-	-	74	-42.54	-	-	0-360	199	H
1	* 1.103	39.92	PK	27.4	-34.4	0	32.92	-	-	74	-41.08	-	-	0-360	101	V
3	* 1.245	37.04	PK	28.5	-34.5	0	31.04	-	-	74	-42.96	-	-	0-360	101	V
4	* 3.85	50.09	PK	33.7	-31.4	0	52.39	-	-	74	-21.61	-	-	0-360	199	V
5	* 7.7	32.92	PK	35.7	-27.5	0	41.12	-	-	74	-32.88	-	-	0-360	101	V
6	* 11.591	30.19	PK	38.1	-22.7	0	45.59	-	-	74	-28.41	-	-	0-360	101	V

PK - Peak detector

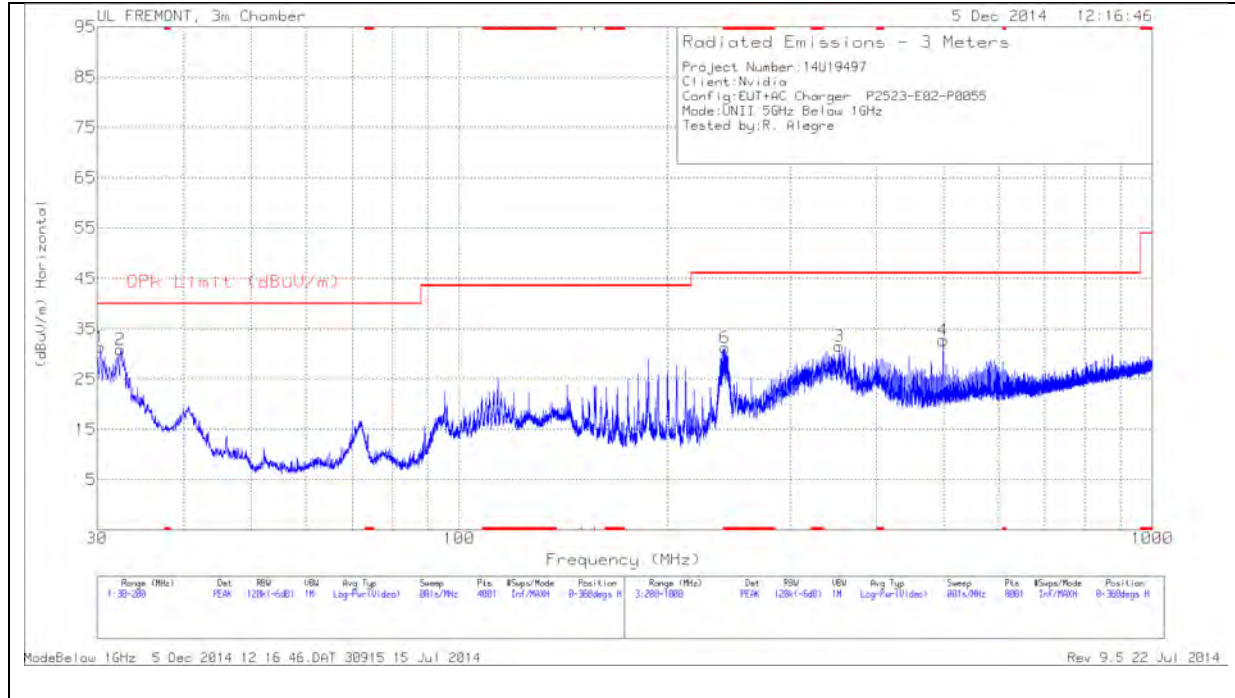
RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Ftr/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
* 1.103	45.92	PK1	27.4	-34.4	0	38.92	-	-	74	-35.08	-	-	349	180	V
* 1.103	37.36	AD1	27.4	-34.4	1.81	32.17	54	-21.83	-	-	-	-	349	180	V
* 3.85	52.44	PK1	33.7	-31.4	0	54.74	-	-	74	-19.26	-	-	358	225	V
* 3.85	48.41	AD1	33.7	-31.4	1.81	52.52	54	-1.48	-	-	-	-	358	225	V
* 11.591	36.54	PK1	38.1	-22.7	0	51.94	-	-	74	-22.06	-	-	62	110	V
* 11.591	24.62	AD1	38.1	-22.7	1.81	41.83	54	-12.17	-	-	-	-	62	110	V

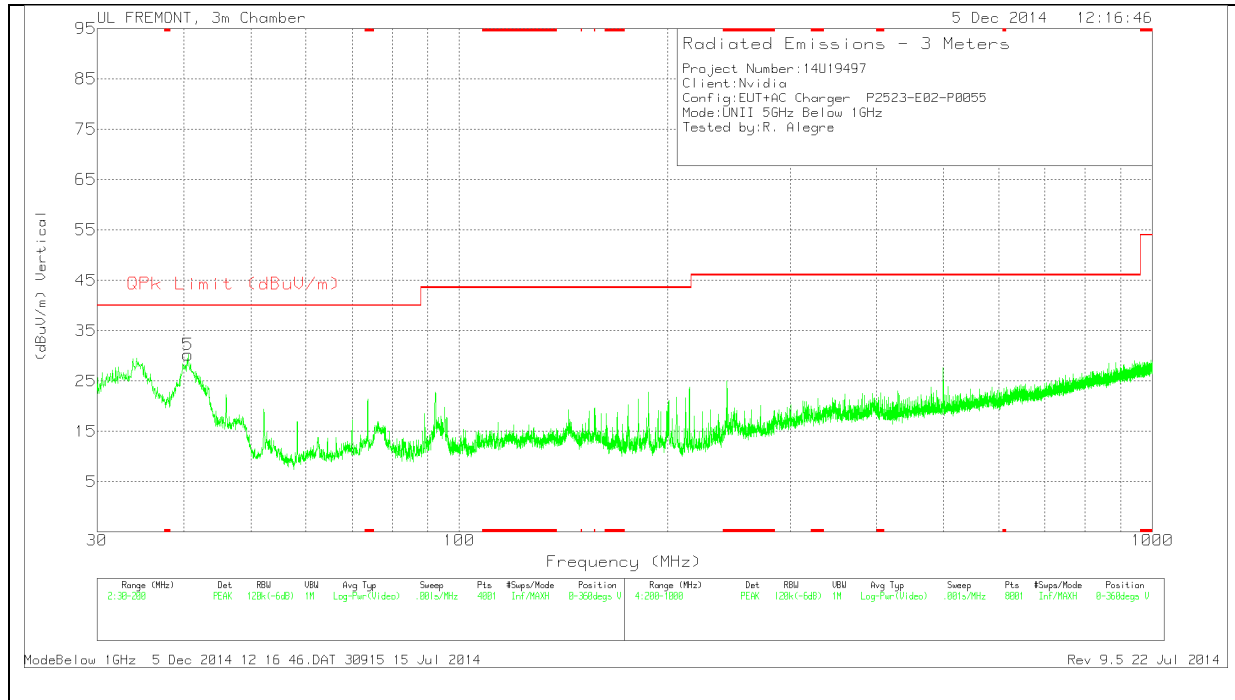
FCC Part15 Subpart C T186 2400MHz Spurious Emissions.TST 12746Rev 9.5 12 Jun 2013

15. WORST-CASE BELOW 1 GHz (in the 5.3 GHz Band)

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)



SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



Below 1G Data

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	* 241.8	46.05	PK	11.6	-26.4	31.25	46.02	-14.77	0-360	101	H
1	30.34	39.11	PK	21.1	-28.8	31.41	40	-8.59	0-360	101	H
2	32.4225	40.08	PK	19.6	-28.8	30.88	40	-9.12	0-360	101	H
5	40.5825	45.53	PK	13.3	-28.6	30.23	40	-9.77	0-360	101	V
3	353.2	42.8	PK	14.5	-25.8	31.5	46.02	-14.52	0-360	101	H
4	499.2	41.22	PK	17.4	-25.9	32.72	46.02	-13.3	0-360	200	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

16. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

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

*Decreases with the logarithm of the frequency.

TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

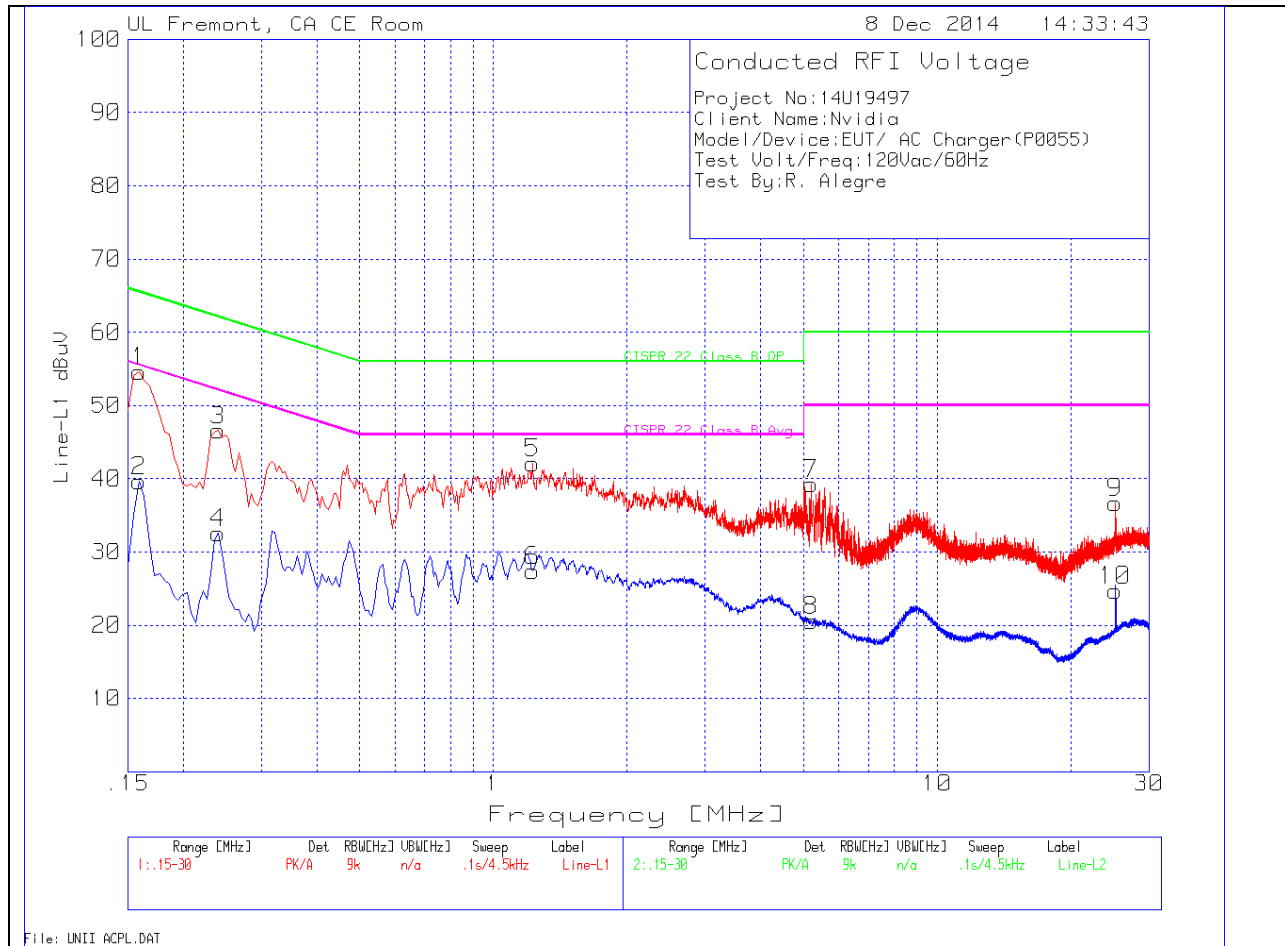
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



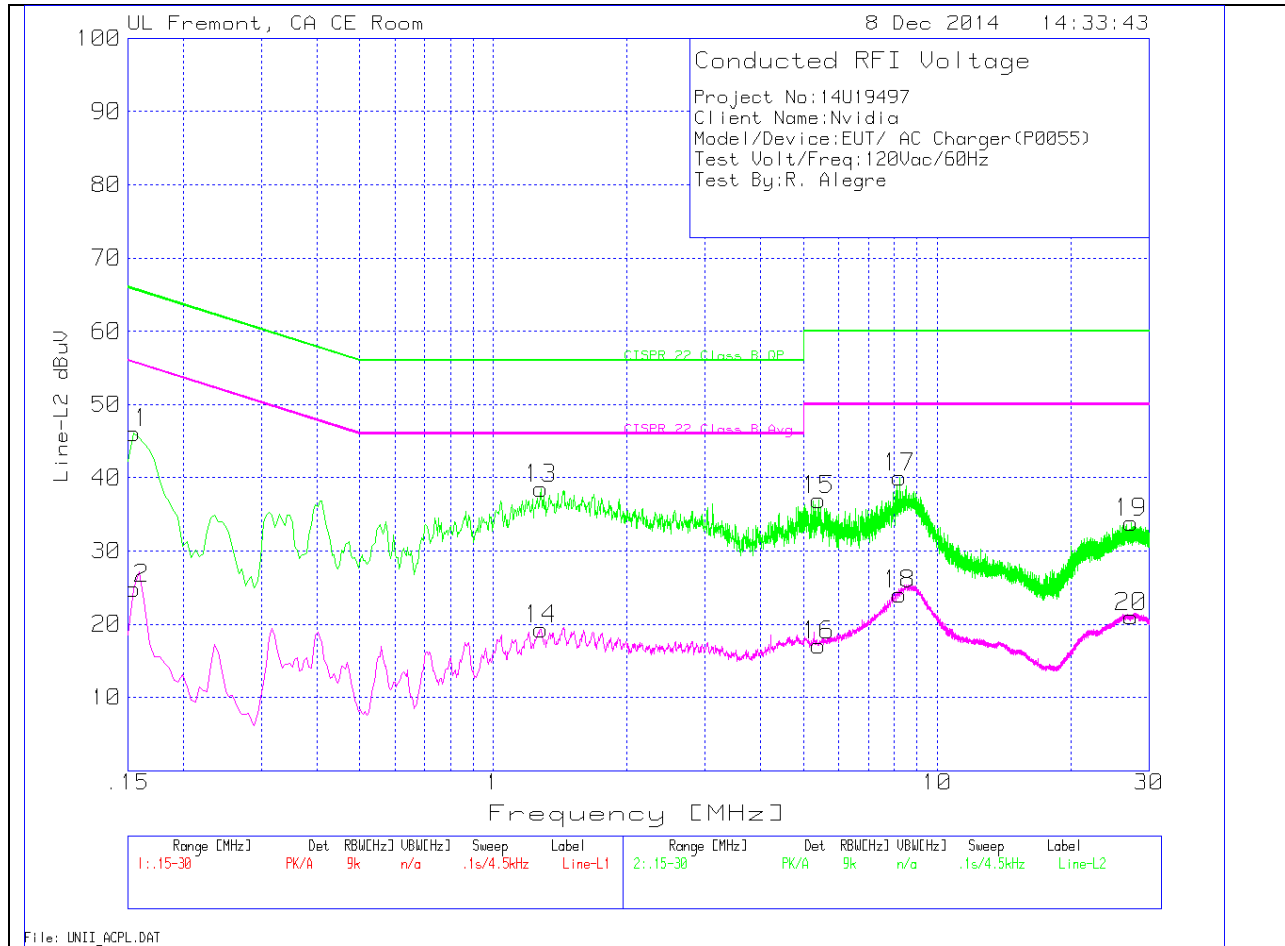
LINE 1 RESULTS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.159	53.34	PK	1.3	0	54.64	65.5	-10.86	-	-
2	.159	38.39	Av	1.3	0	39.69	-	-	55.5	-15.81
3	.24	45.86	PK	.7	0	46.56	62.1	-15.54	-	-
4	.24	31.91	Av	.7	0	32.61	-	-	52.1	-19.49
5	1.2255	41.78	PK	.2	.1	42.08	56	-13.92	-	-
6	1.2255	27.06	Av	.2	.1	27.36	-	-	46	-18.64
7	5.199	38.92	PK	.2	.1	39.22	60	-20.78	-	-
8	5.199	20.32	Av	.2	.1	20.62	-	-	50	-29.38
9	25.206	36.09	PK	.3	.3	36.69	60	-23.31	-	-
10	25.206	24.16	Av	.3	.3	24.76	-	-	50	-25.24

LINE 2 PLOT



LINE 2 RESULTS

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
11	.1545	44.67	PK	1.4	0	46.07	65.8	-19.73	-	-
12	.1545	23.47	Av	1.4	0	24.87	-	-	55.8	-30.93
13	1.2795	38.17	PK	.2	.1	38.47	56	-17.53	-	-
14	1.2795	18.96	Av	.2	.1	19.26	-	-	46	-26.74
15	5.406	36.64	PK	.2	.1	36.94	60	-23.06	-	-
16	5.406	16.83	Av	.2	.1	17.13	-	-	50	-32.87
17	8.241	39.74	PK	.2	.1	40.04	60	-19.96	-	-
18	8.241	23.79	Av	.2	.1	24.09	-	-	50	-25.91
19	27.3525	33.29	PK	.3	.3	33.89	60	-26.11	-	-
20	27.3525	20.43	Av	.3	.3	21.03	-	-	50	-28.97

PK - Peak detector

Av - average detection