

(IC)

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/1MHz)
Low	5260	17.63	1.71	4.67	23.46	11.00
Mid	5300	17.83	1.71	4.67	23.51	11.00
High	5320	17.78	1.71	4.67	23.50	11.00

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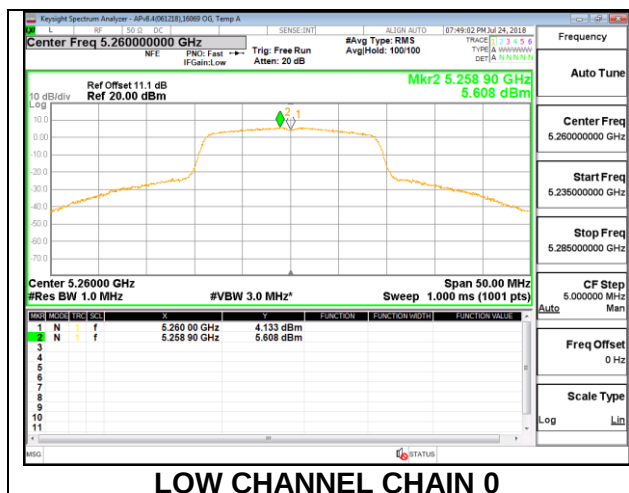
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	17.31	17.54	20.44	23.46	-3.03
Mid	5300	17.08	17.32	20.21	23.51	-3.30
High	5320	17.08	17.27	20.19	23.50	-3.31

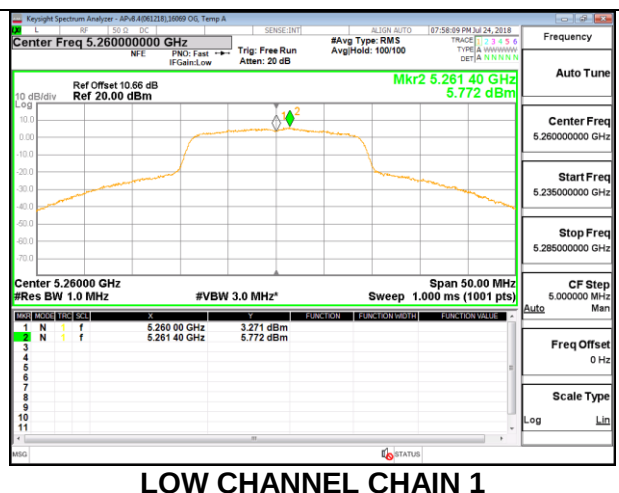
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	5.61	5.77	9.02	11.00	-1.98
Mid	5300	5.69	6.48	9.43	11.00	-1.57
High	5320	5.55	5.99	9.10	11.00	-1.90

LOW CHANNEL

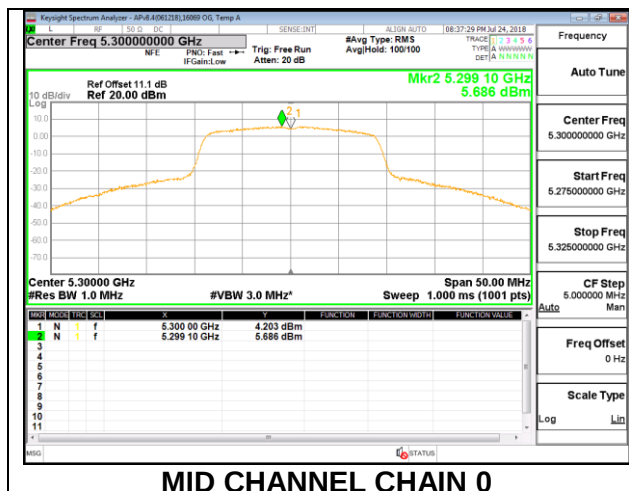


LOW CHANNEL CHAIN 0

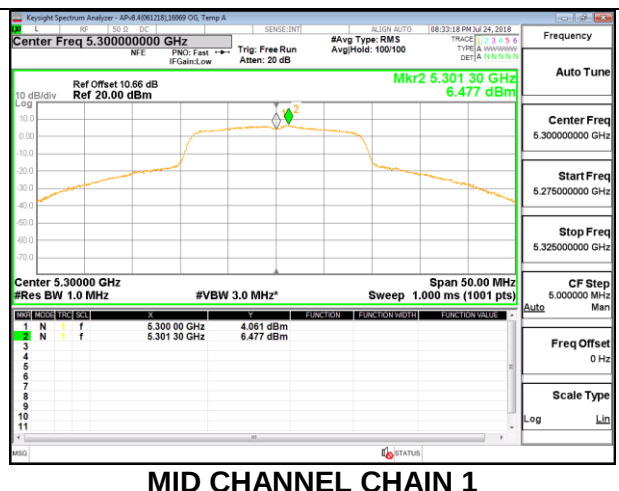


LOW CHANNEL CHAIN 1

MID CHANNEL

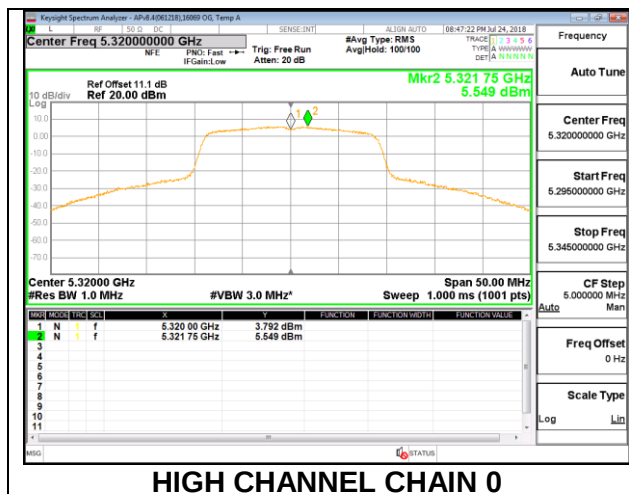


MID CHANNEL CHAIN 0

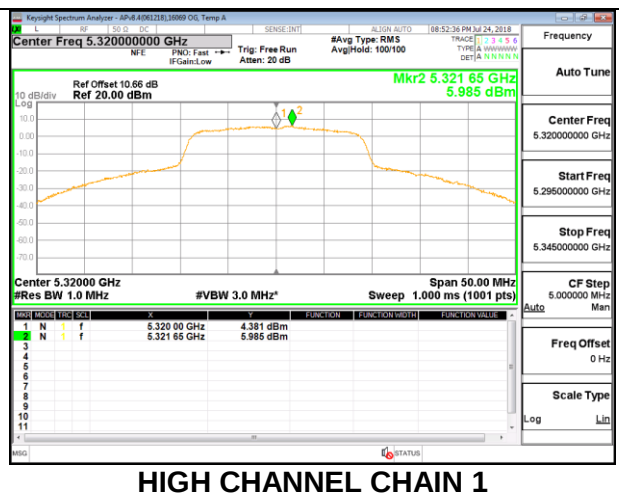


MID CHANNEL CHAIN 1

HIGH CHANNEL



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

8.5.7. 802.11n HT20 MODE IN THE 5.6 GHz BAND

(FCC+IC)

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5500	22.90	17.63	1.71	4.67
Mid	5580	23.15	17.72	1.71	4.67
High	5700	28.95	17.68	1.71	4.67

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED Power Limit (dBm)	ISED EIRP Limit (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5500	24.00	23.46	29.46	23.46	11.00	11.00	11.00
Mid	5580	24.00	23.48	29.48	23.48	11.00	11.00	11.00
High	5700	24.00	23.47	29.47	23.47	11.00	11.00	11.00

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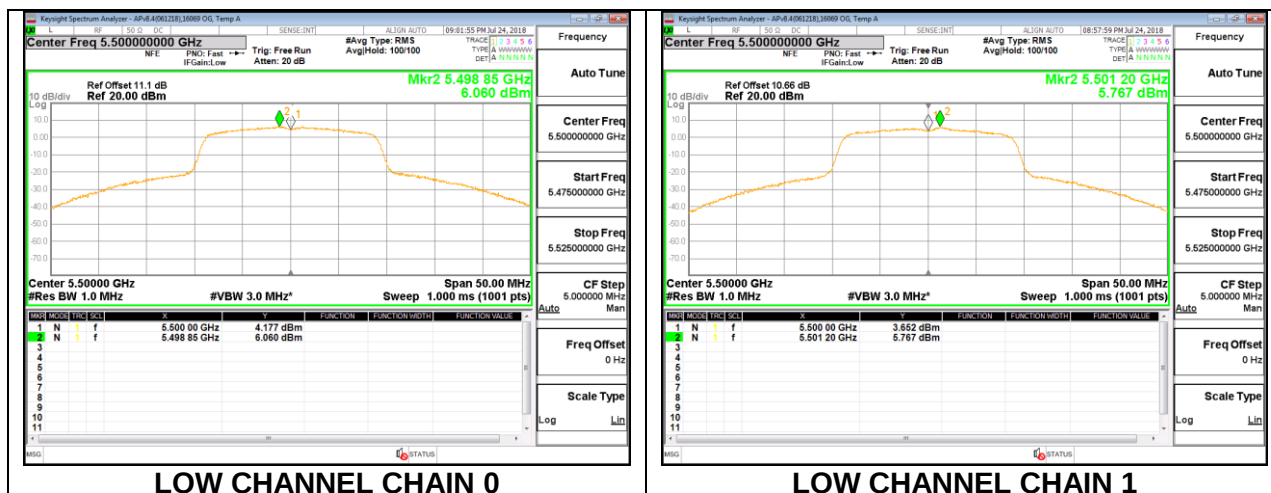
Output Power Results

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	5500	17.47	17.09	20.29	23.46	-3.17
Mid	5580	17.96	17.45	20.72	23.48	-2.76
High	5700	16.48	16.7	19.60	23.47	-3.87

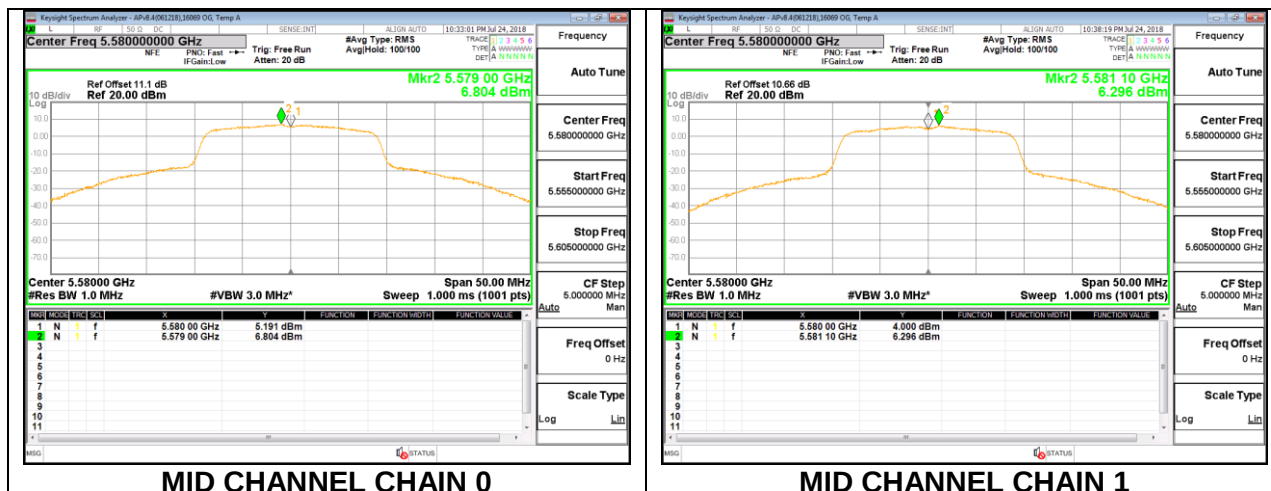
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	6.06	5.77	9.246	11.00	-1.75
Mid	5580	6.80	6.30	9.888	11.00	-1.11
High	5700	5.92	6.29	9.435	11.00	-1.57

LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.8. 802.11n HT20 MODE IN THE 5.8 GHz BAND

(FCC+IC)

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBm)	FCC/ISED Power Limit (dBm)	FCC/ISED PSD Limit (dBm/ 1MHz)
Low	5745	1.71	4.67	30.00	30.00
Mid	5785	1.71	4.67	30.00	30.00
High	5825	1.71	4.67	30.00	30.00

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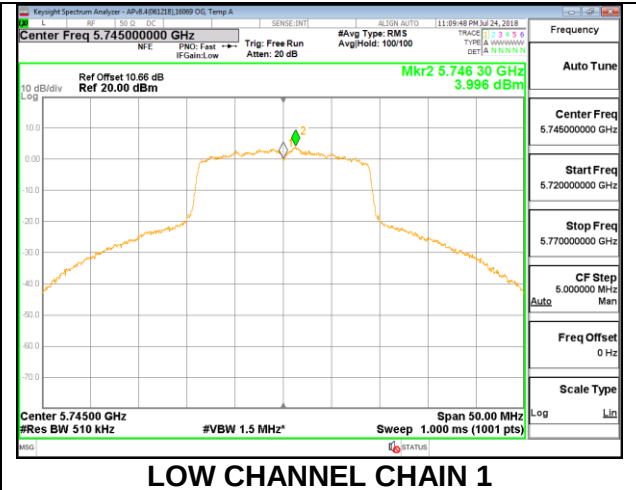
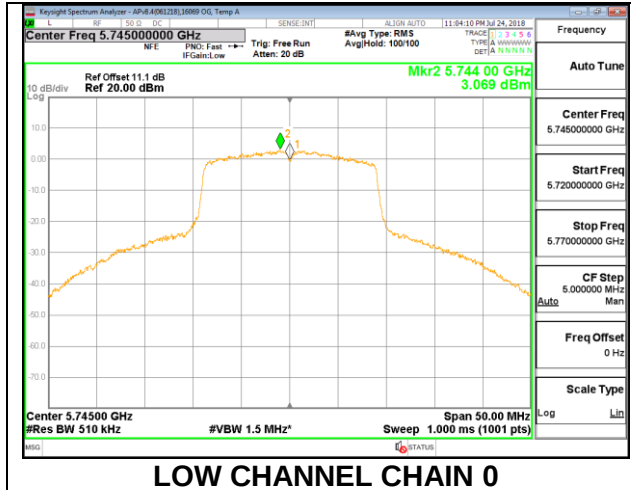
Output Power Results

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	5745	17.09	17.75	20.44	30.00	-9.56
Mid	5785	17.05	17.8	20.45	30.00	-9.55
High	5825	17.75	17.82	20.80	30.00	-9.20

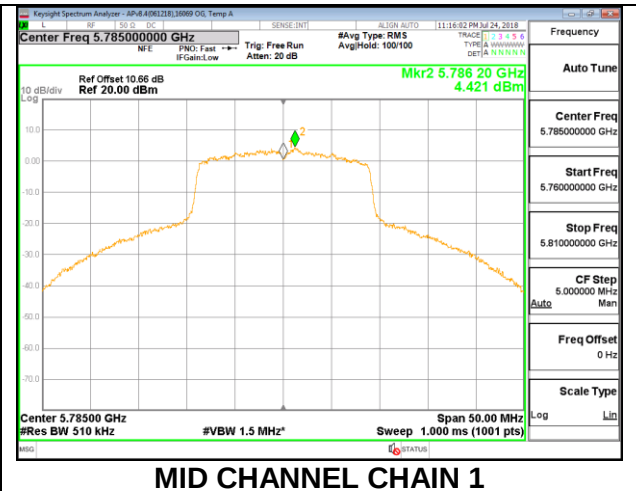
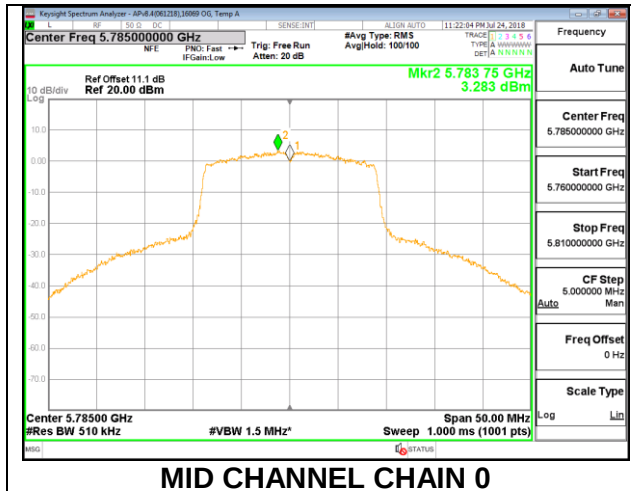
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	3.07	4.00	6.887	30.00	-23.11
Mid	5785	3.28	4.42	7.219	30.00	-22.78
High	5825	4.51	5.02	8.105	30.00	-21.90

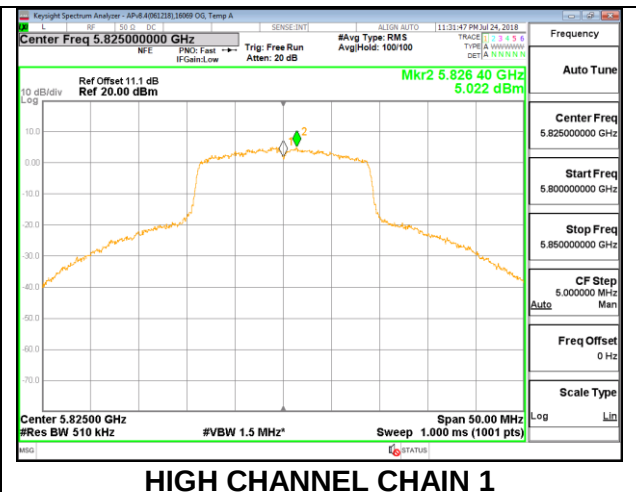
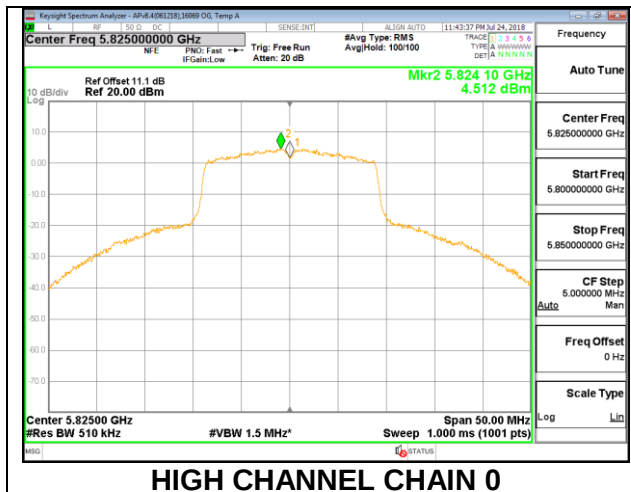
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



9. RADIATED TEST RESULTS

LIMITS

FCC §15.205 and §15.209 -Restricted bands

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

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

RSS 247 Issue 2 Sections

6.2.1.2 (for 5150-5250 MHz band)

6.2.2.2 (for 5250-5350 MHz band)

6.2.3.2 (for 5470-5600 MHz and 5650-5725 MHz bands)

6.2.4.2 (for 5725-5850 MHz band)

TEST PROCEDURE

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

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

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

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

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

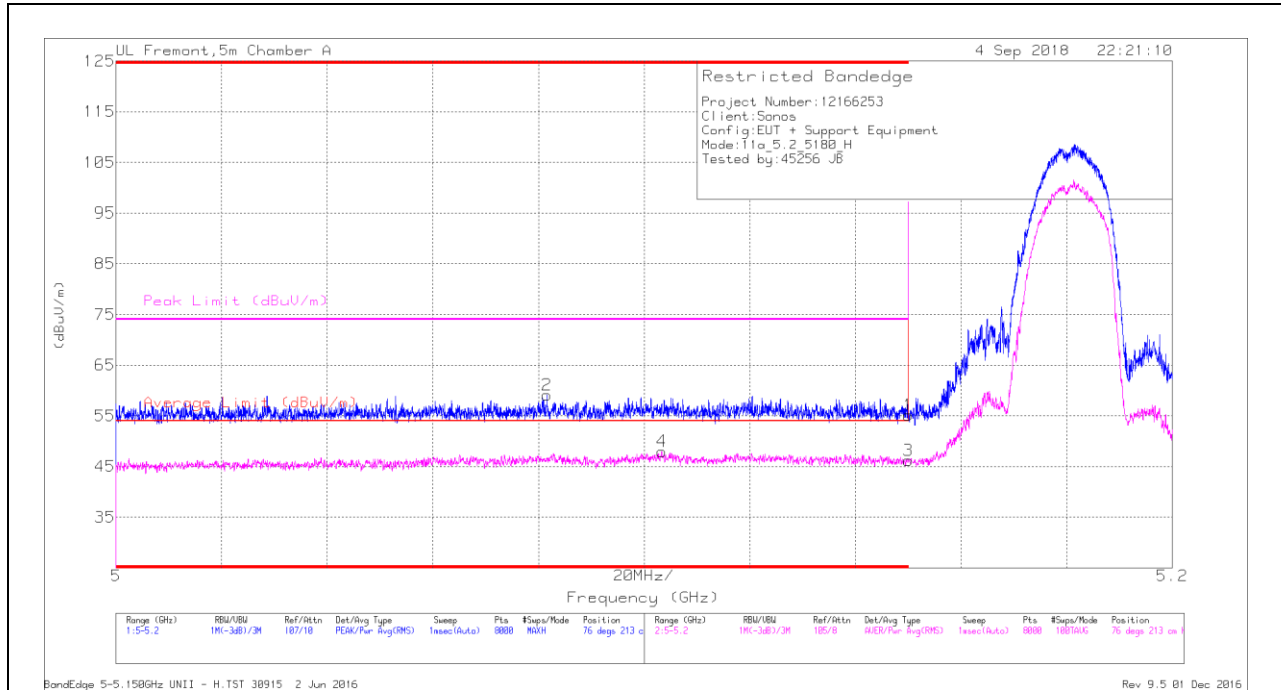
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.1. TRANSMITTER ABOVE 1 GHz

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



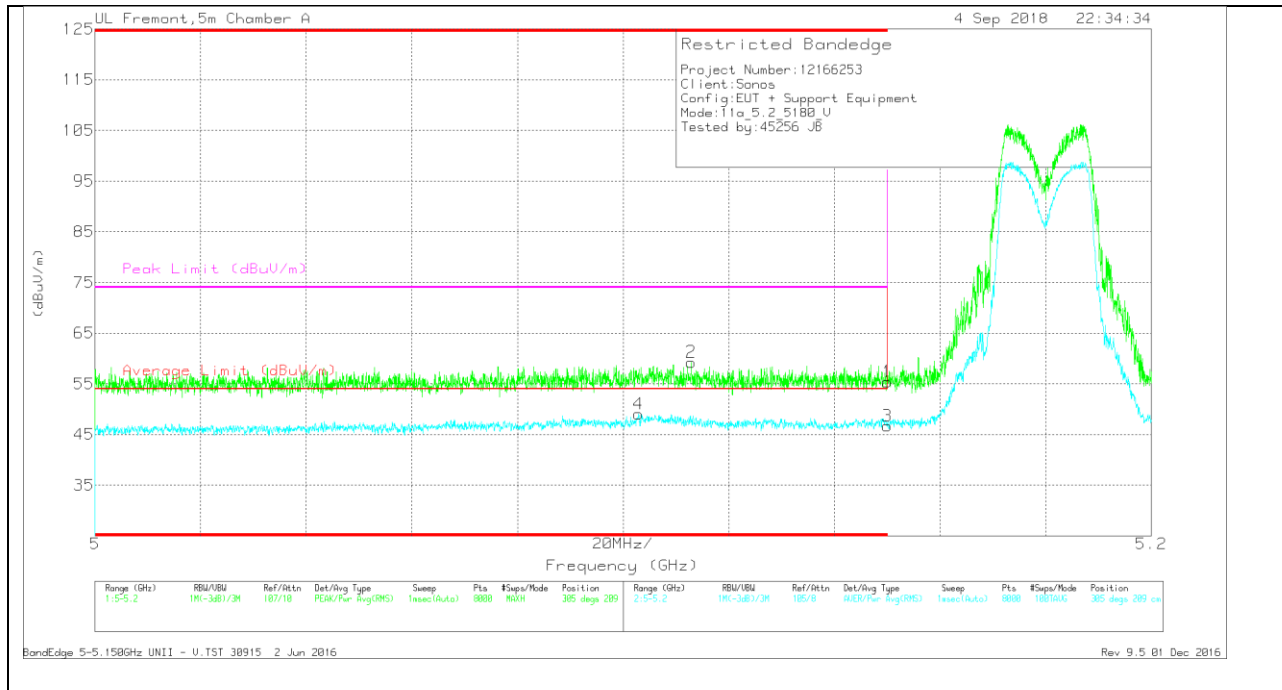
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/CbW/Pwr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.46	Pk	34.4	-17.7	0	55.16	-	-	74	-18.84	76	213	H
2	* 5.082	42.26	Pk	34.4	-17.5	0	59.16	-	-	74	-14.84	76	213	H
3	* 5.15	29.34	RMS	34.4	-17.7	.1	46.14	54	-7.86	-	-	76	213	H
4	* 5.103	30.99	RMS	34.4	-17.5	.1	47.99	54	-6.01	-	-	76	213	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/ChW/It/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	38.74	Pk	34.4	-17.7	0	55.44	-	-	74	-18.56	305	209	V
2	* 5.113	42.49	Pk	34.4	-17.6	0	59.29	-	-	74	-14.71	305	209	V
3	* 5.15	29.84	RMS	34.4	-17.7	1	46.64	54	-7.36	-	-	305	209	V
4	* 5.103	32.03	RMS	34.4	-17.5	.1	49.03	54	-4.97	-	-	305	209	V

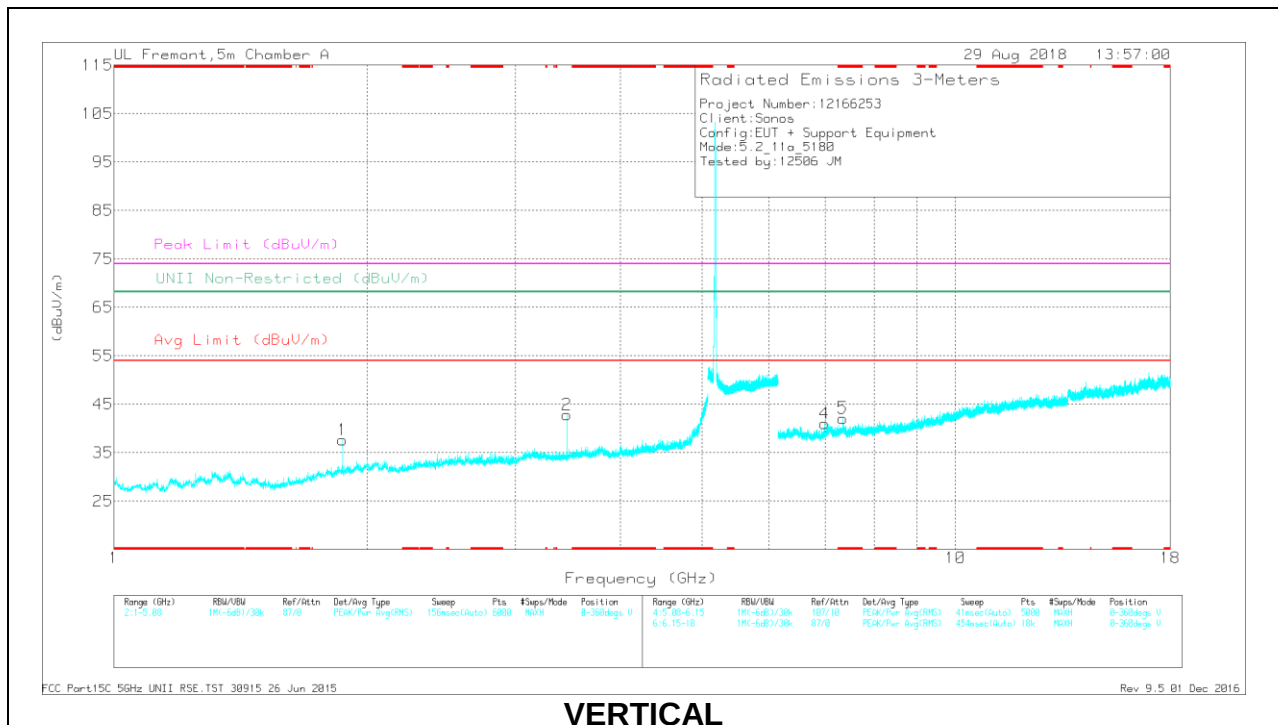
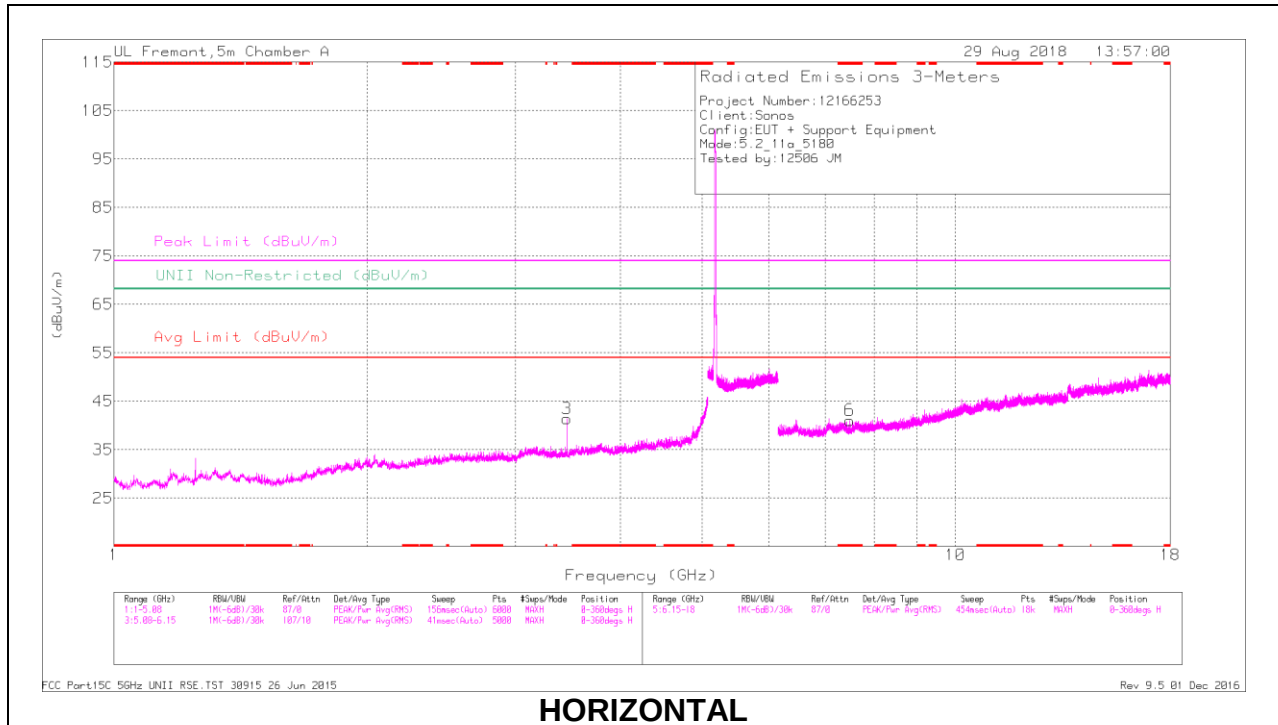
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

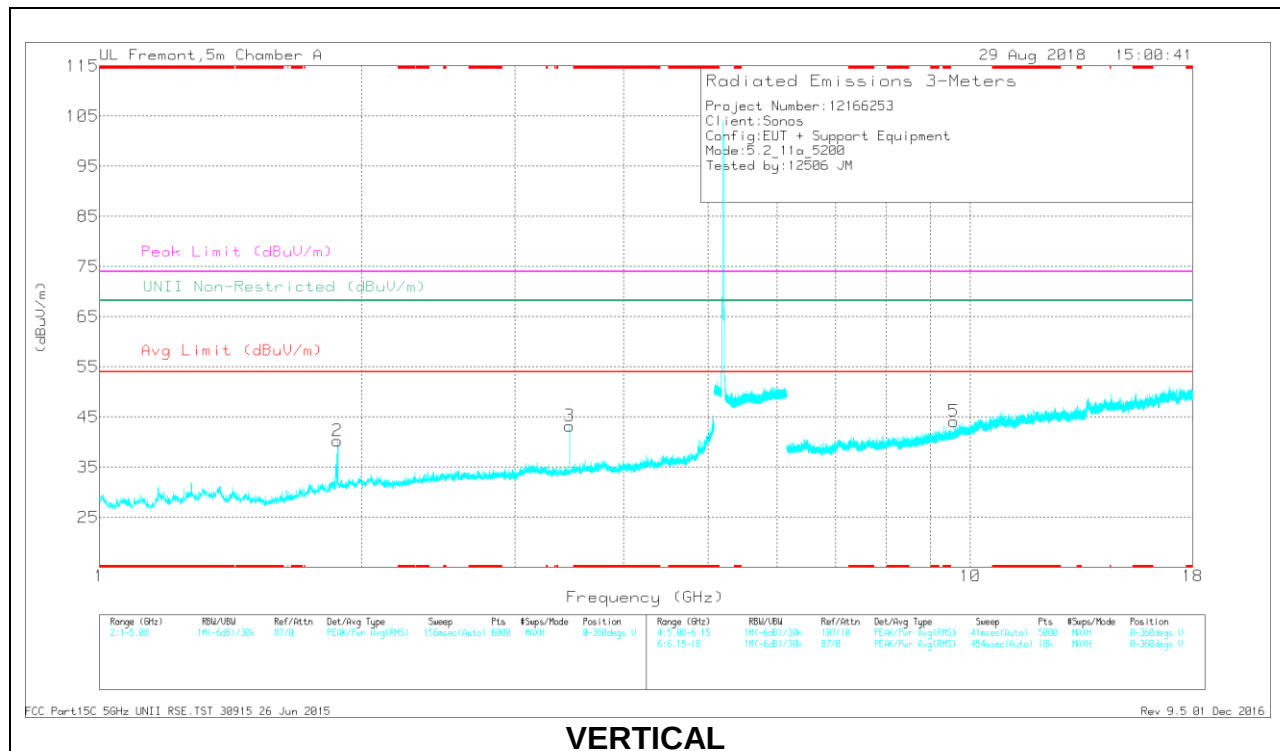
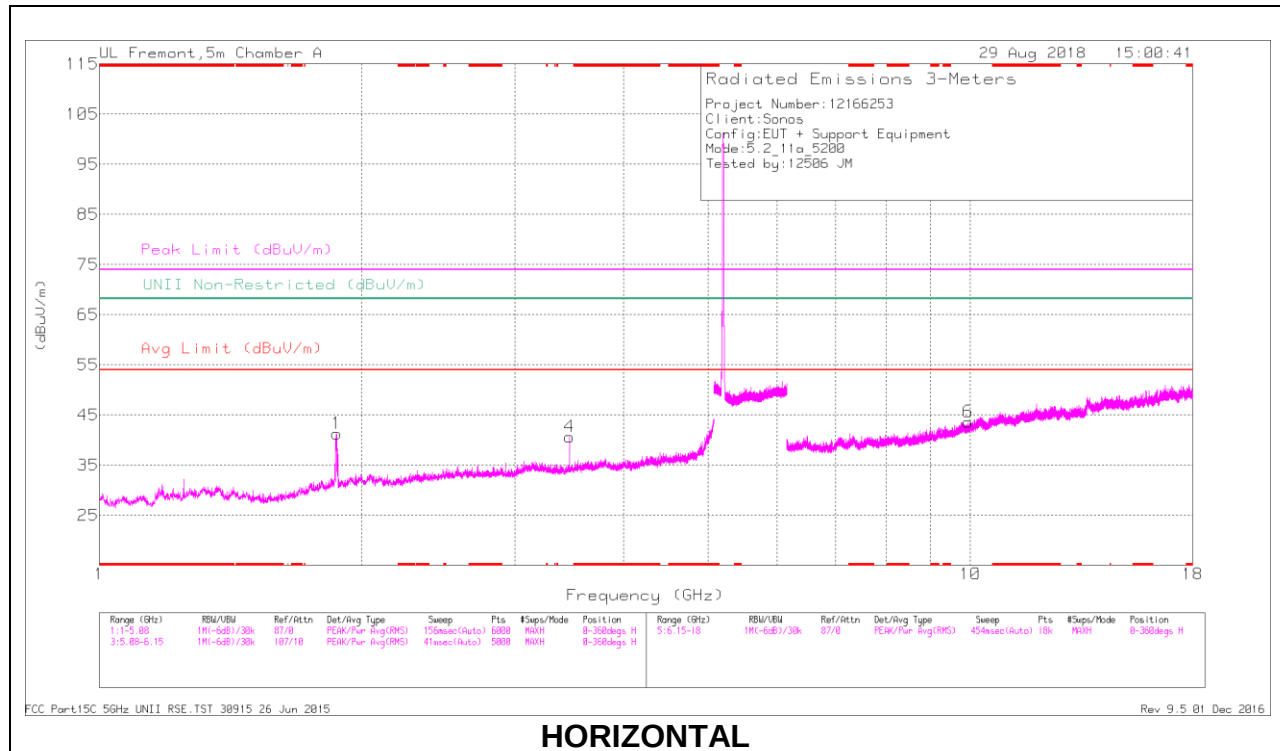
Frequency (MHz)	Meter Reading (dBuV)	Det	AF T662 (dBm)	Amplifier Reading (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 7.483	33.41	PK-U	35.7	-23.2	0	45.91	-	-	74	-28.09	-	-	176	139	H
* 7.482	22.57	ADR	35.7	-23.2	.1	35.17	54	-18.83	-	-	-	-	176	139	H
* 7.345	33.4	PK-U	35.7	-21.8	0	47.3	-	-	74	-26.7	-	-	355	200	V
* 7.345	21.99	ADR	35.7	-21.8	.1	35.99	54	-18.01	-	-	-	-	355	200	V
1.871	39.12	PK-U	31	-31.5	0	38.62	-	-	-	-	68.2	-29.58	161	229	V
3.453	37.81	PK-U	32.7	-28.7	0	41.81	-	-	-	-	68.2	-26.39	84	148	H
3.453	38.68	PK-U	32.7	-28.7	0	42.68	-	-	-	-	68.2	-25.52	143	122	V
6.987	35.16	PK-U	35.6	-23.6	0	47.16	-	-	-	-	68.2	-21.04	355	102	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

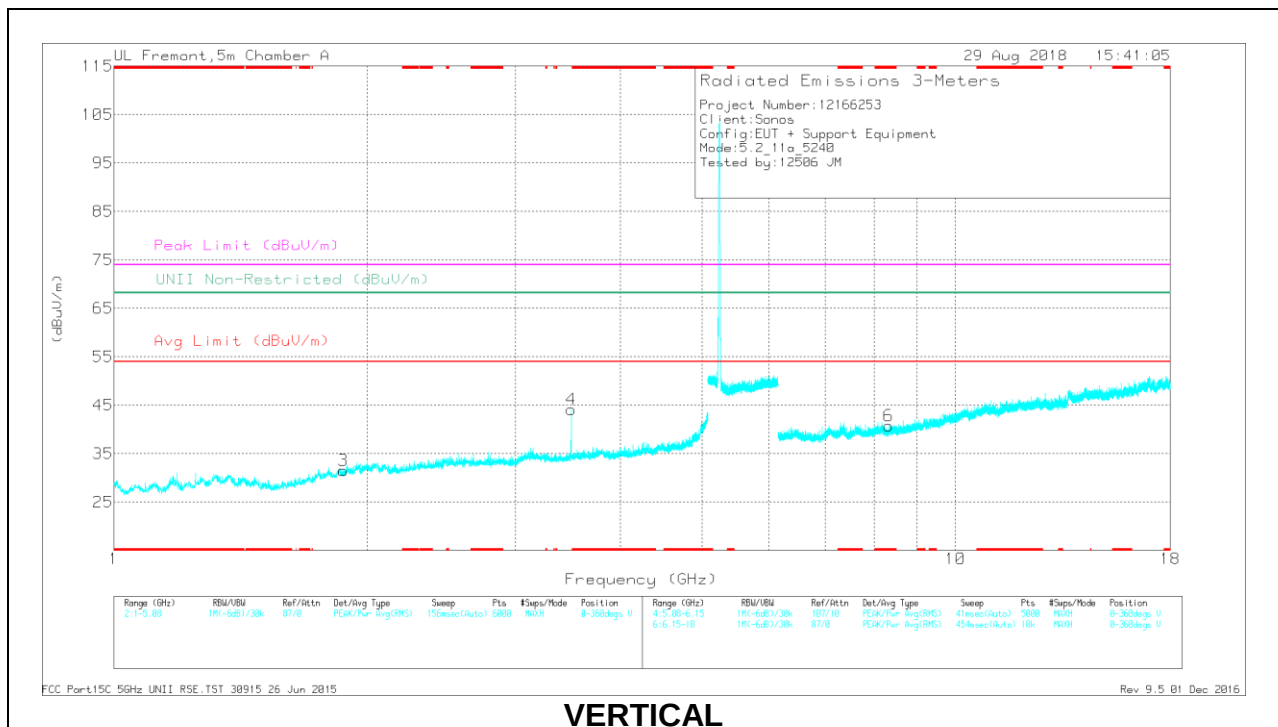
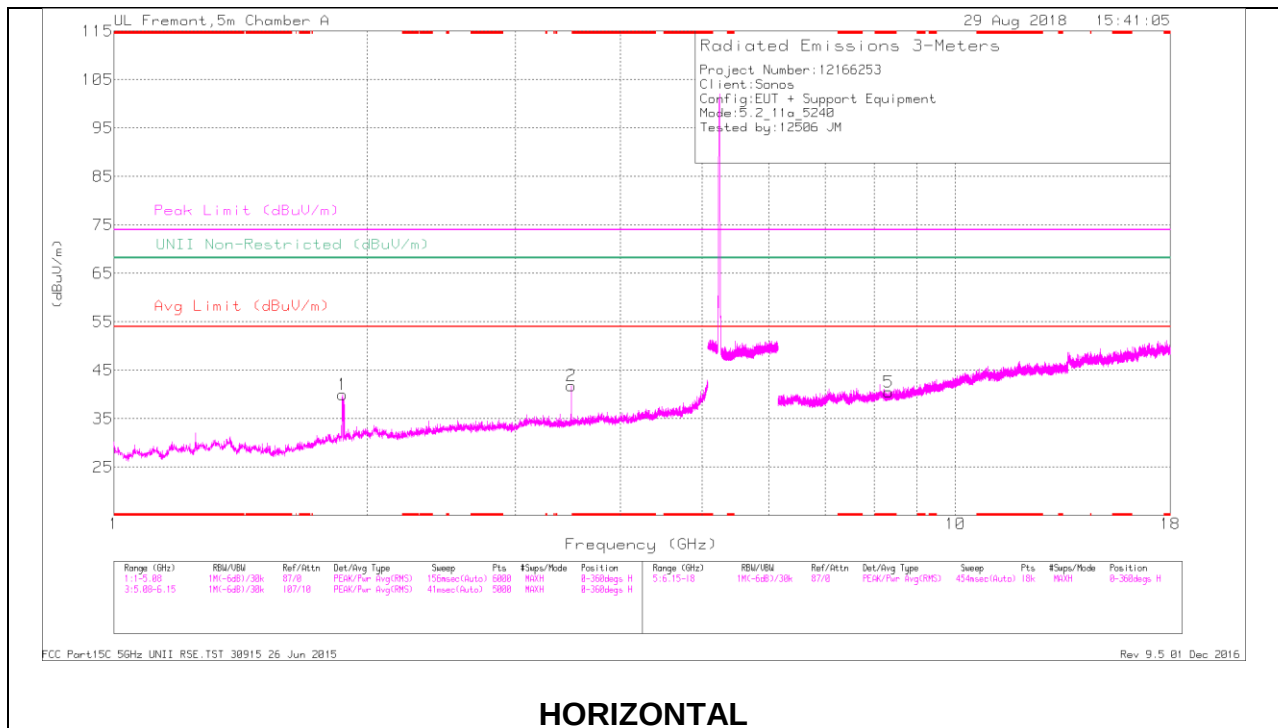
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/Cable/Fit/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unlit Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1.871	40.86	PK-U	31	-31.5	0	40.36	-	-	-	-	68.2	-27.84	328	176	H
1.877	39.24	PK-U	31	-31.5	0	38.74	-	-	-	-	68.2	-29.46	44	139	V
3.467	41.57	PK-U	32.7	-28.5	0	45.77	-	-	-	-	68.2	-22.43	85	170	H
3.467	42.74	PK-U	32.7	-28.5	0	46.94	-	-	-	-	68.2	-21.26	135	238	V
9.572	32.81	PK-U	36.7	-20.9	0	48.61	-	-	-	-	68.2	-19.59	148	150	V
9.946	32.39	PK-U	37.2	-20.2	0	49.39	-	-	-	-	68.2	-18.81	141	231	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amplifier/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 8.333	33.36	PK-U	35.8	-22.4	0	45.76	-	-	74	-27.24	-	-	77	173	H
* 8.33	21.43	ADR	35.8	-22.4	.1	34.93	54	-19.07	-	-	-	-	77	173	H
* 8.328	32.87	PK-U	35.8	-22.4	0	46.27	-	-	74	-27.73	-	-	176	251	V
* 8.33	21.46	ADR	35.8	-22.4	.1	34.96	54	-19.04	-	-	-	-	176	251	V
1.87	38.8	PK-U	31	-31.5	0	38.3	-	-	-	-	68.2	-29.9	66	137	H
1.874	38.95	PK-U	31	-31.5	0	38.45	-	-	-	-	68.2	-29.75	152	116	V
3.493	42.07	PK-U	32.8	-28.4	0	48.47	-	-	-	-	68.2	-21.73	89	144	H
3.493	35.73	ADR	32.8	-28.4	.1	41.23	-	-	-	-	-	-	89	144	H
3.493	44.52	PK-U	32.8	-28.4	0	48.92	-	-	-	-	68.2	-19.28	143	204	V
3.493	39.96	ADR	32.8	-28.4	.1	44.46	-	-	-	-	-	-	143	204	V

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

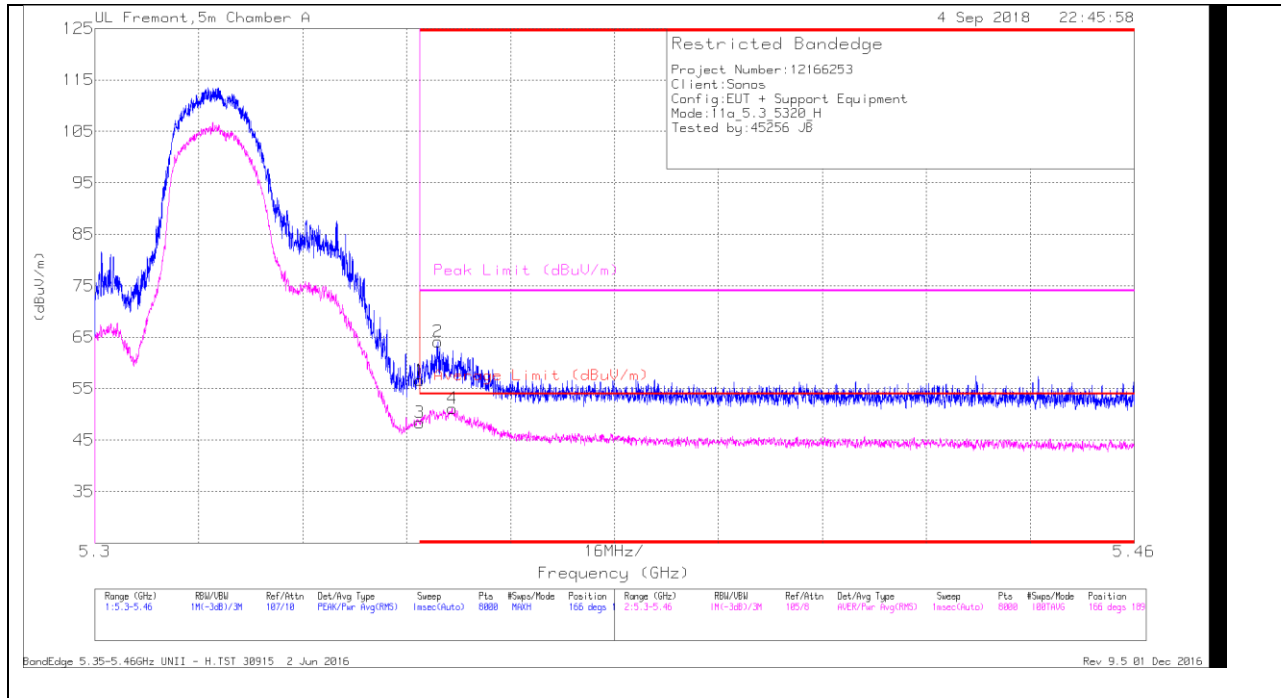
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



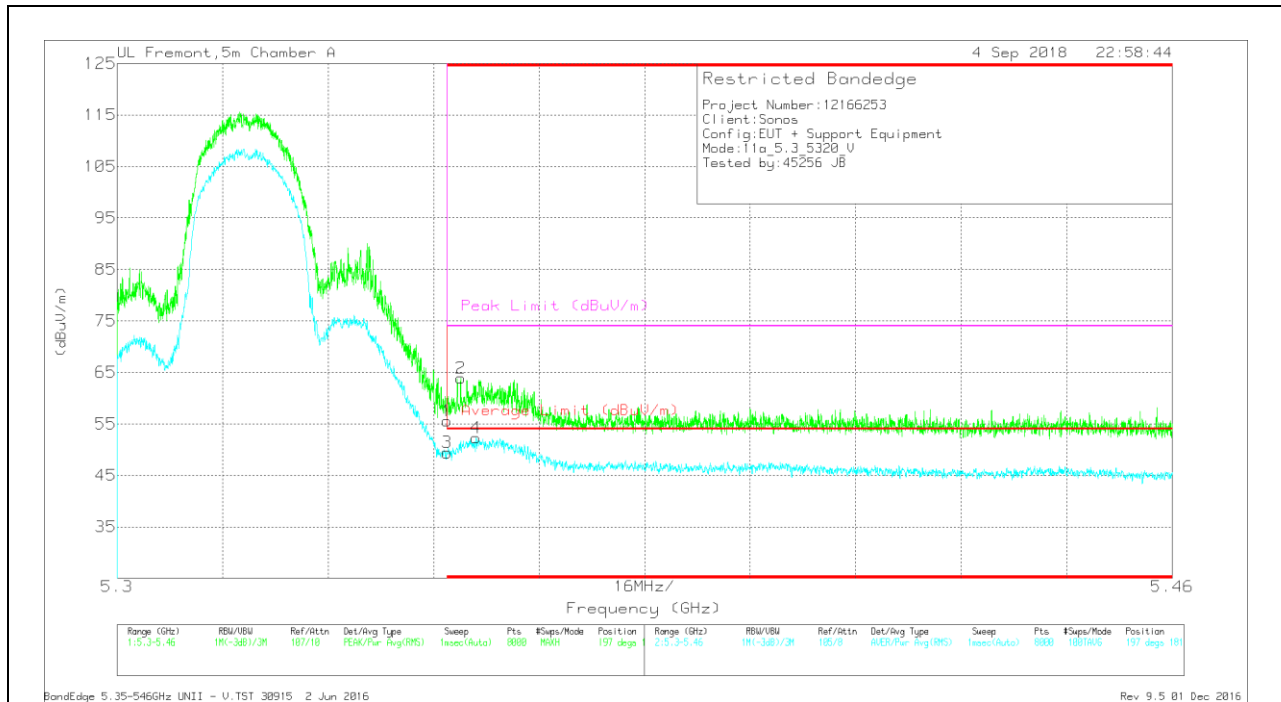
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Ampl/Cbl/Filtr/P ad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35	39.93	Pk	34.6	-17.9	56.63	-	-	74	-17.37	166	189	H
2	* 5.353	47.45	Pk	34.6	-17.9	64.15	-	-	74	-9.85	166	189	H
3	* 5.35	31.68	RMS	34.6	-17.9	48.38	54	-5.62	-	-	166	189	H
4	* 5.355	34.45	RMS	34.6	-17.9	51.15	54	-2.85	-	-	166	189	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/Cb/Filt/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	* 5.35	38.87	Pk	34.6	-17.9	0	55.57	-	-	74	-18.43	197	181	V
2	* 5.352	47.18	Pk	34.6	-17.9	0	63.88	-	-	74	-10.12	197	181	V
3	* 5.35	32.63	RMS	34.6	-17.9	.1	49.43	54	-4.57	-	-	197	181	V
4	* 5.354	35.46	RMS	34.6	-17.9	.1	52.26	54	-1.74	-	-	197	181	V

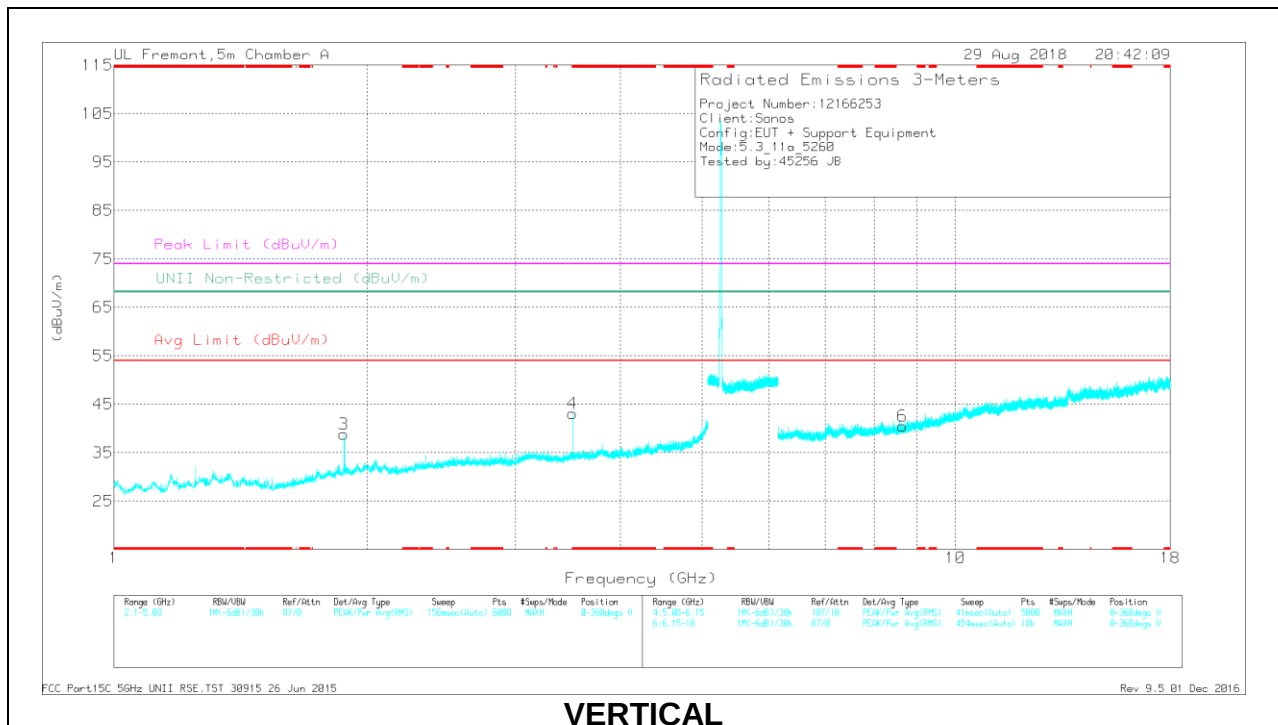
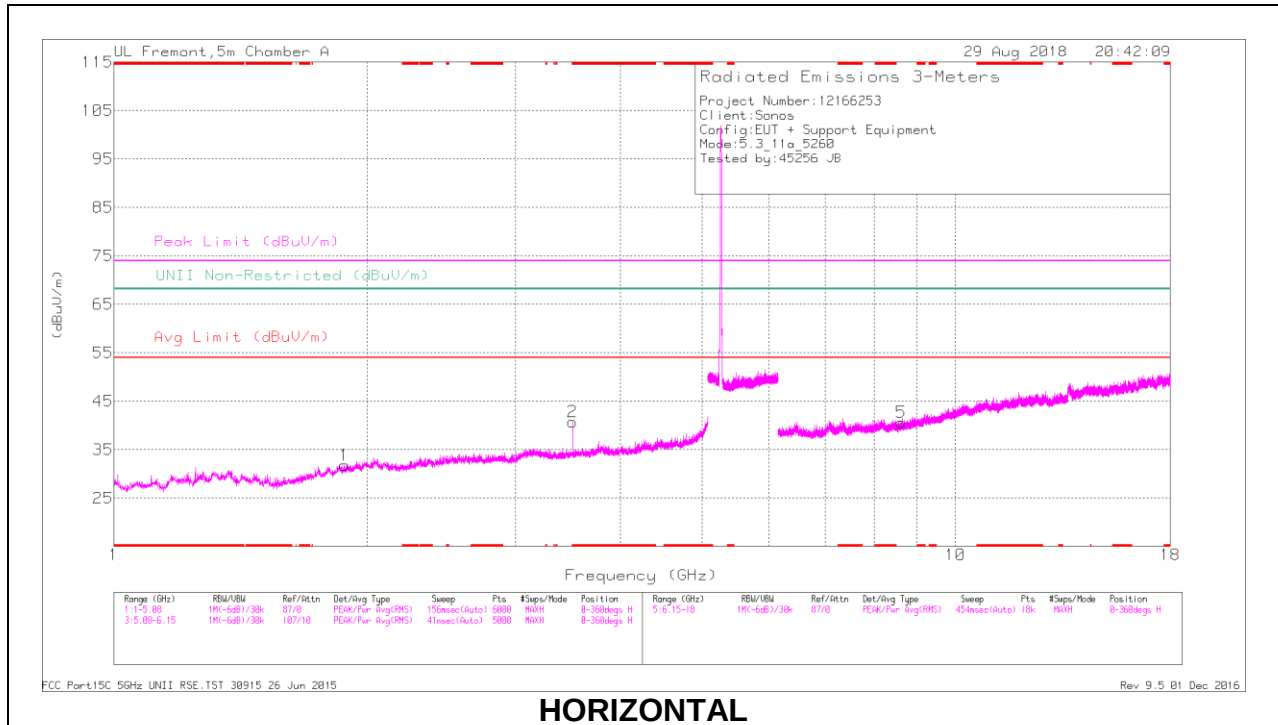
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

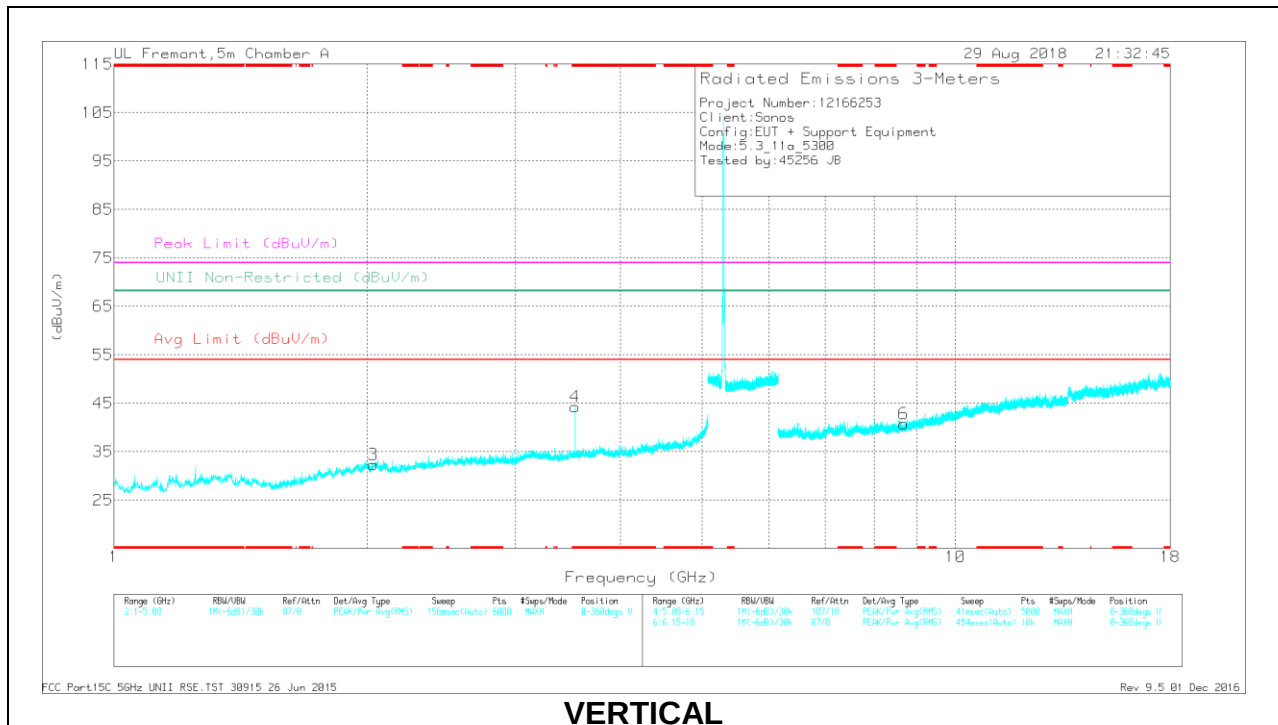
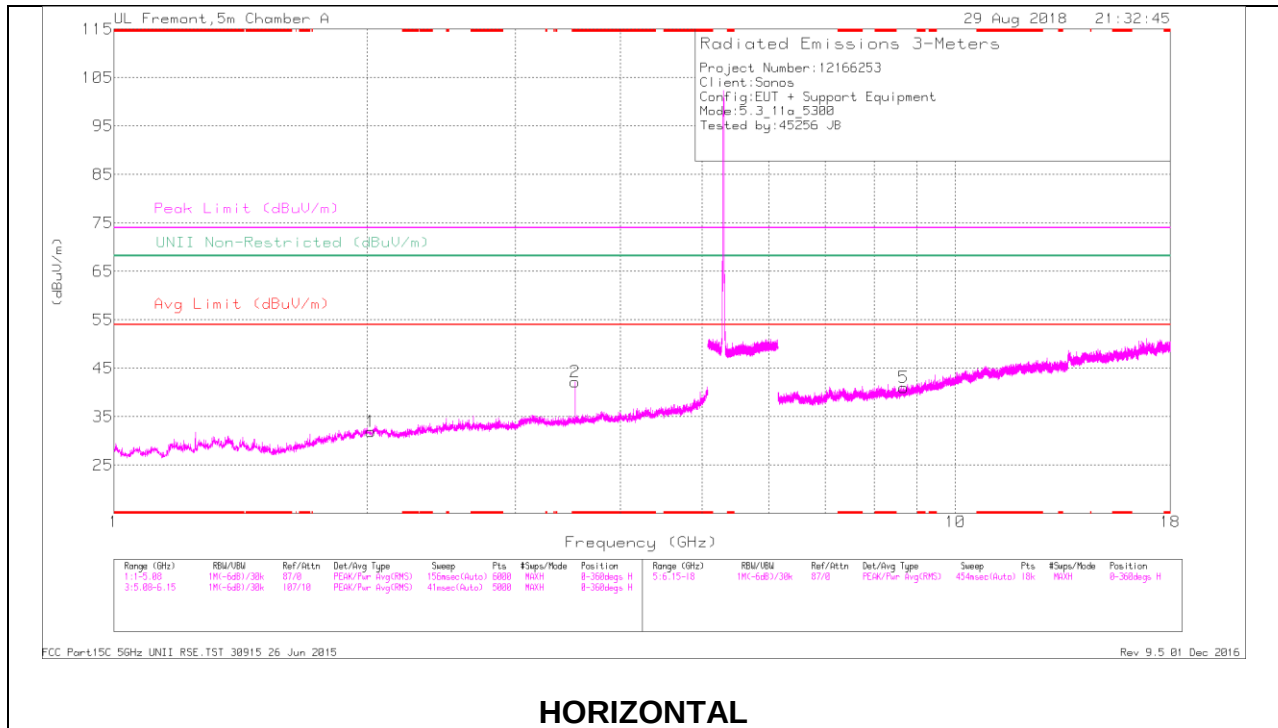
Frequency (MHz)	Meter Reading (dBuV)	Det	AF 1062 (dBm)	Amplifier Gain (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.507	41.77	PK-U	32.9	-28.4	0	40.27	-	-	74	-27.73	-	-	81	138	H
* 3.507	36.54	ADR	32.9	-28.4	.1	41.14	54	-12.86	-	-	-	-	81	138	H
* 3.507	43.34	PK-U	32.9	-28.4	0	47.84	-	-	74	-26.16	-	-	134	236	V
* 3.507	38.79	ADR	32.9	-28.4	.1	43.39	54	-10.61	-	-	-	-	134	236	V
1.877	38.54	PK-U	31	-31.5	0	38.04	-	-	-	-	68.2	-30.16	103	157	V
1.878	38.51	PK-U	31	-31.5	0	38.01	-	-	-	-	68.2	-30.19	13	114	H
8.622	32.19	PK-U	35.8	-21.7	0	46.29	-	-	-	-	68.2	-21.91	257	236	H
8.653	32.28	PK-U	35.9	-21.7	0	46.48	-	-	-	-	68.2	-21.71	205	128	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

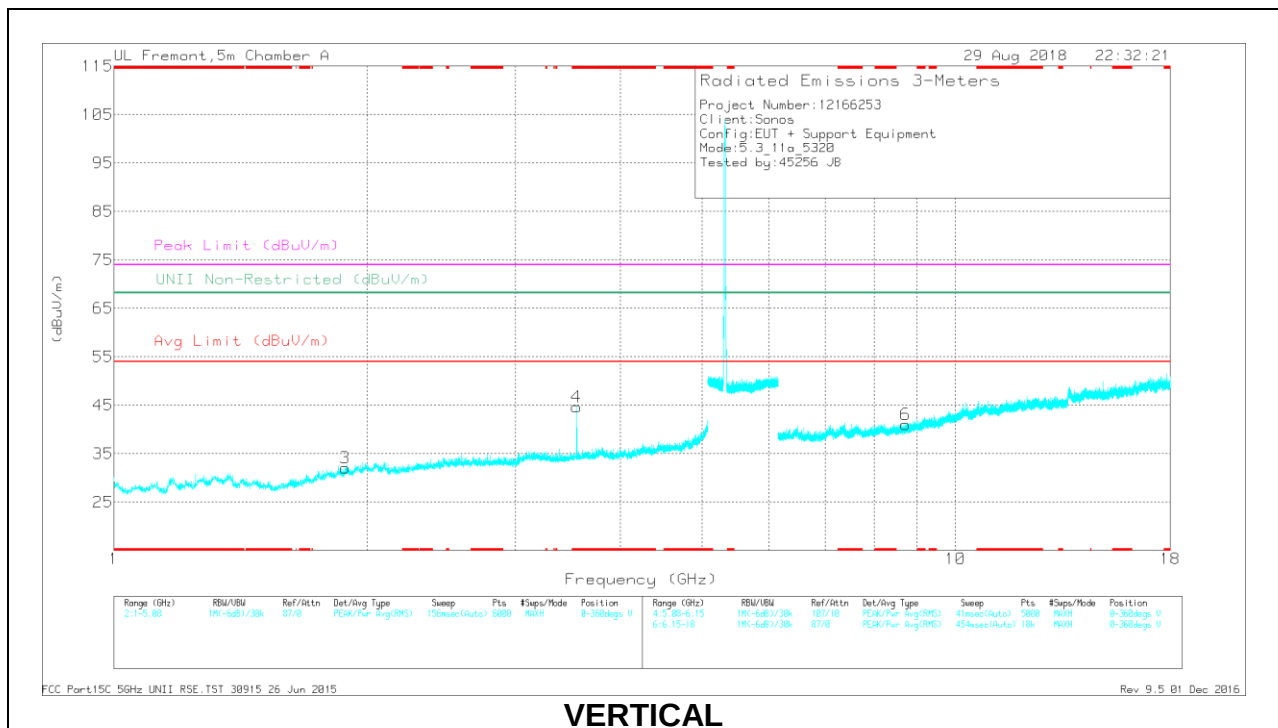
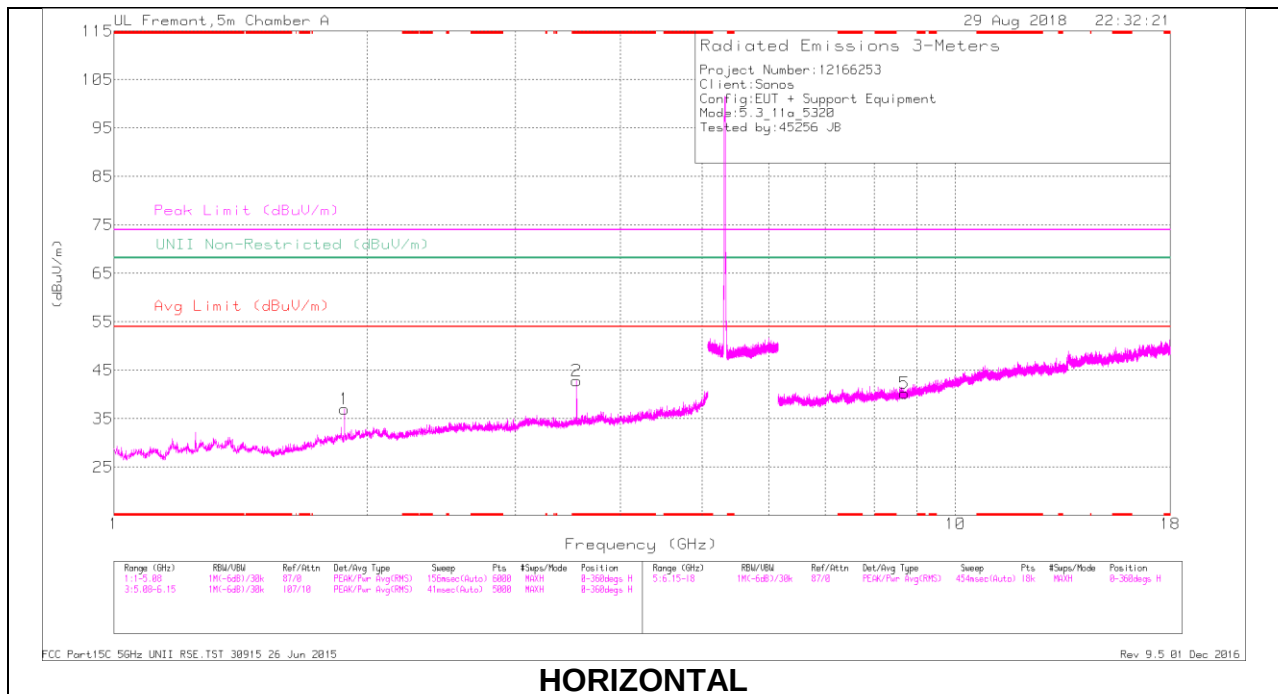
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amplifier/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.533	42.22	PK-U	32.9	-28.2	0	48.92	-	-	74	-27.08	-	-	85	154	H
* 3.533	36.82	ADR	32.9	-28.2	.1	41.62	54	-12.38	-	-	-	-	85	154	H
* 3.533	43.35	PK-U	32.9	-28.2	0	48.05	-	-	74	-25.95	-	-	142	196	V
* 3.533	39.33	ADR	32.9	-28.2	.1	44.13	54	-9.87	-	-	-	-	142	196	V
2.022	38.35	PK-U	31.4	-30.2	0	39.55	-	-	-	-	68.2	-28.65	153	296	H
2.034	37.86	PK-U	31.4	-30	0	39.26	-	-	-	-	68.2	-28.94	353	363	V
8.682	33.36	PK-U	35.9	-21.9	0	47.36	-	-	-	-	68.2	-20.84	101	236	H
8.684	32.55	PK-U	35.9	-21.9	0	46.55	-	-	-	-	68.2	-21.65	25	287	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Frequency (MHz)	Meter Reading (dBuV)	Det	AF 1962 (dBm)	Amplifier Reading (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
* 3.547	43.29	PK-U	33	-28.4	0	47.89	-	-	74	-26.11	-	-	80	149	H
* 3.547	38.58	ADR	33	-28.4	.1	43.28	54	-10.72	-	-	-	-	80	149	H
* 3.547	44.13	PK-U	33	-28.4	0	48.73	-	-	74	-25.27	-	-	143	214	V
* 3.547	40.37	ADR	33	-28.4	.1	45.07	54	-8.93	-	-	-	-	143	214	V
1.878	41.89	PK-U	31	-31.5	0	41.39	-	-	-	-	68.2	-26.81	315	324	H
1.884	39.31	PK-U	31	-31.4	0	38.91	-	-	-	-	68.2	-29.29	9	163	V
8.694	32.67	PK-U	36	-21.9	0	46.77	-	-	-	-	68.2	-21.43	329	196	H
8.724	32.02	PK-U	36	-21.9	0	46.12	-	-	-	-	68.2	-22.08	107	237	V

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

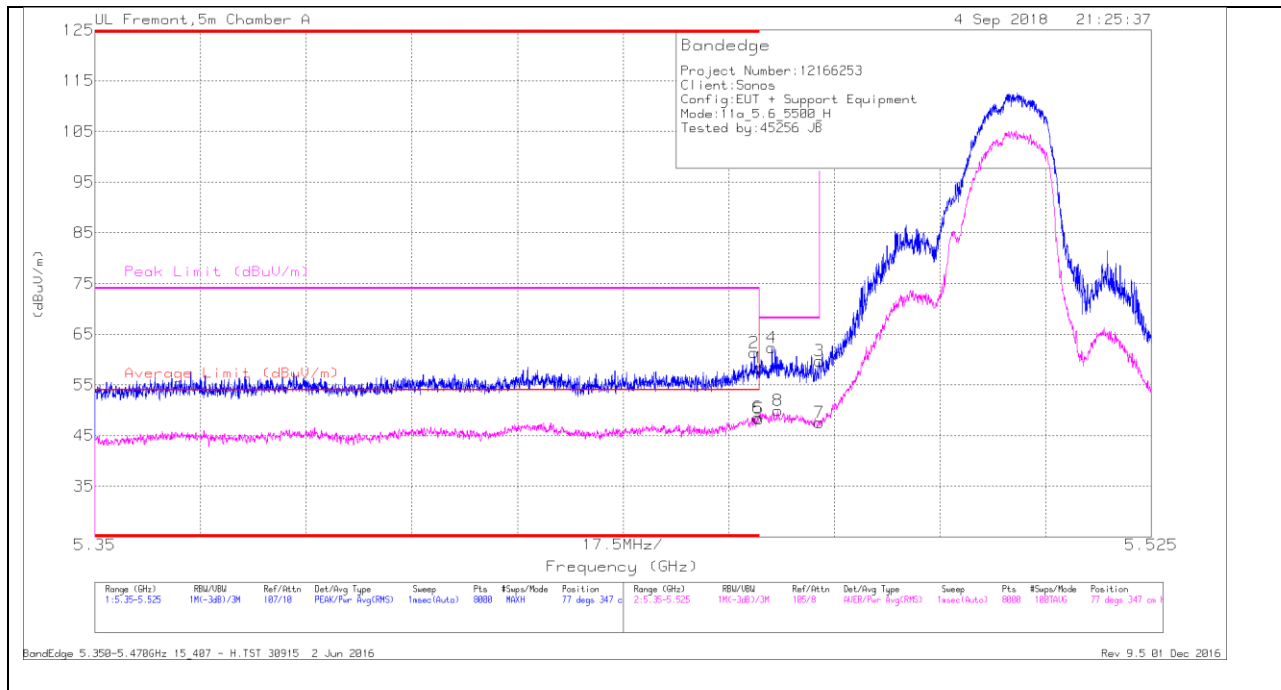
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



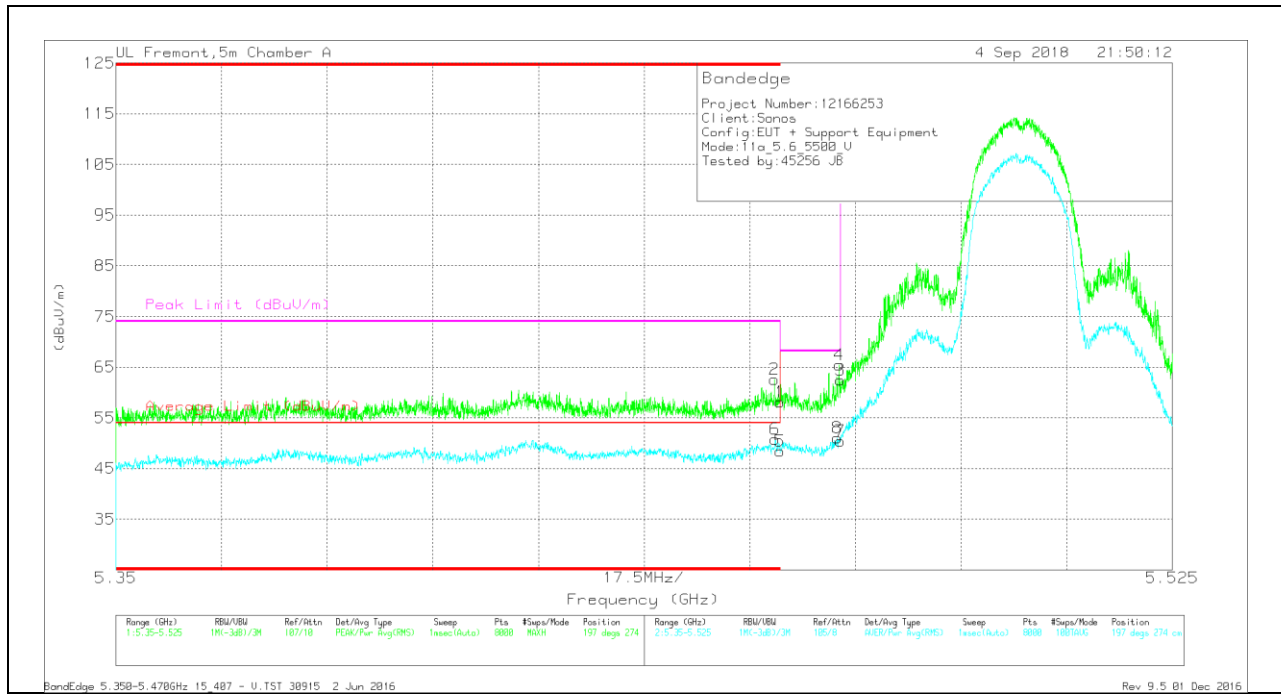
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/Cb/IF/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.53	Pk	34.7	-17.9	0	58.33	-	-	74	-15.67	77	347	H
2	* 5.459	44.57	Pk	34.7	-17.9	0	61.37	-	-	74	-12.63	77	347	H
5	* 5.46	31.46	RMS	34.7	-17.9	.1	48.36	54	-5.64	-	-	77	347	H
6	* 5.46	31.61	RMS	34.7	-17.9	.1	48.51	54	-5.49	-	-	77	347	H
4	5.462	45.58	Pk	34.7	-17.9	0	62.38	-	-	68.2	-5.82	77	347	H
8	5.463	33.05	RMS	34.7	-17.9	.1	49.95	-	-	-	-	77	347	H
3	5.47	42.69	Pk	34.8	-17.8	0	59.69	-	-	68.2	-8.51	77	347	H
7	5.47	30.46	RMS	34.8	-17.8	.1	47.56	-	-	-	-	77	347	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T62 (dBm)	Amp/Chf/It/Pad (dB)	DC Corr (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.46	41.36	Pk	34.7	-17.9	0	58.16	-	-	74	-15.84	197	274	V
2	* 5.459	45.75	Pk	34.7	-17.9	0	62.55	-	-	74	-11.45	197	274	V
5	* 5.46	31.51	RMS	34.7	-17.9	.1	48.41	54	-5.59	-	-	197	274	V
6	* 5.459	33.86	RMS	34.7	-17.9	.1	50.76	54	-3.24	-	-	197	274	V
8	5.469	33.91	RMS	34.8	-17.8	.1	51.01	-	-	-	-	197	274	V
3	5.47	45.44	Pk	34.8	-17.8	0	62.44	-	-	68.2	-5.76	197	274	V
4	5.47	48.43	Pk	34.8	-17.8	0	65.43	-	-	68.2	-2.77	197	274	V
7	5.47	33.33	RMS	34.8	-17.8	.1	50.43	-	-	-	-	197	274	V

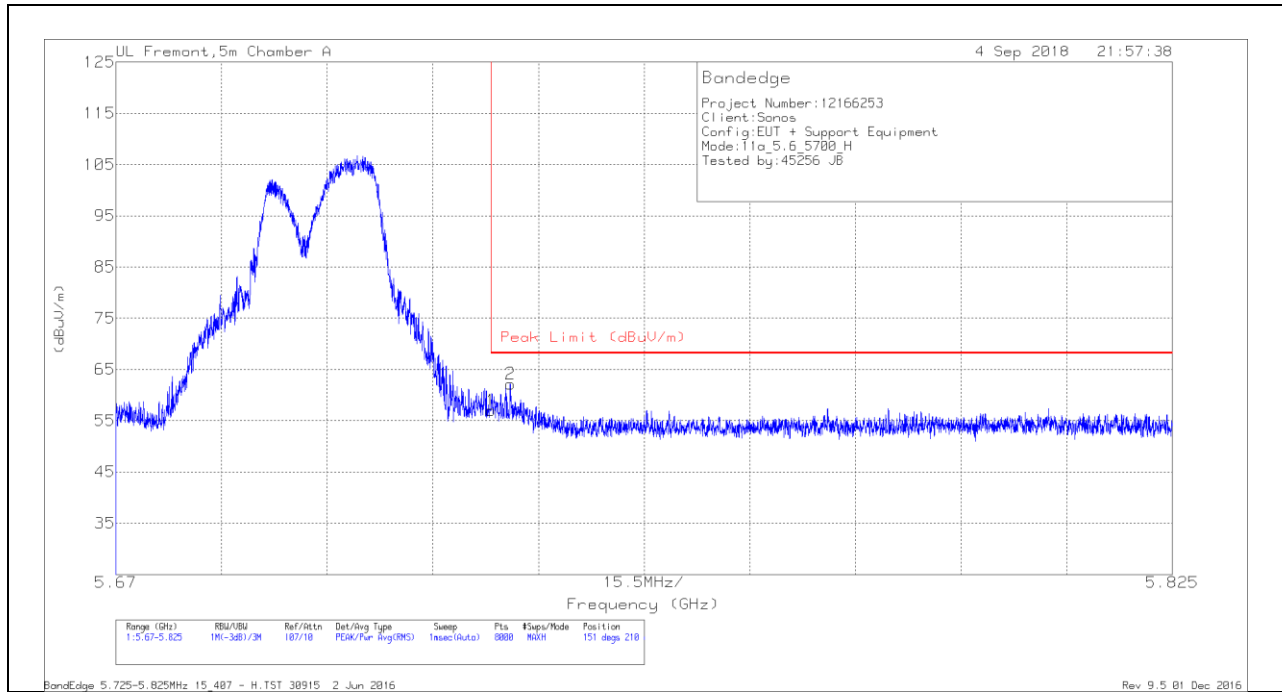
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

BANDEDGE (HIGH CHANNEL)

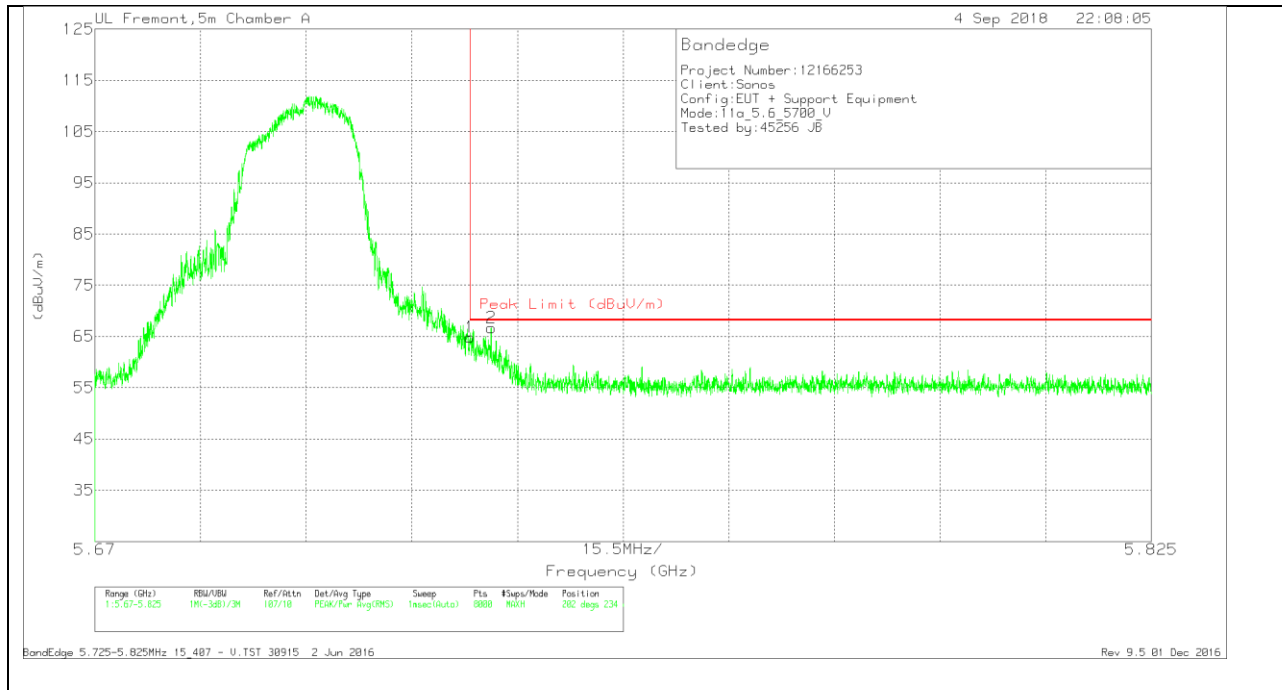
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	39.89	Pk	35	-17.9	0	56.99	68.2	-11.21	151	210	H
2	5.728	45.11	Pk	35	-17.9	0	62.21	68.2	-5.99	151	210	H

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

VERTICAL RESULT

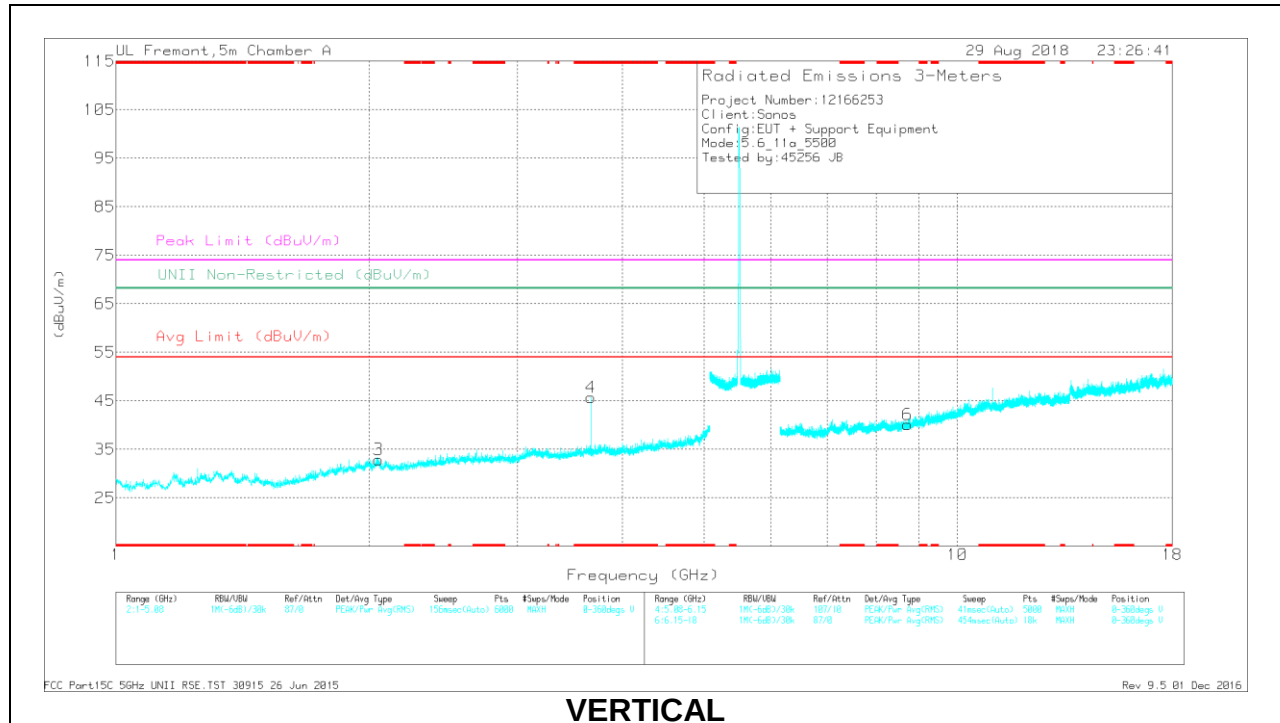
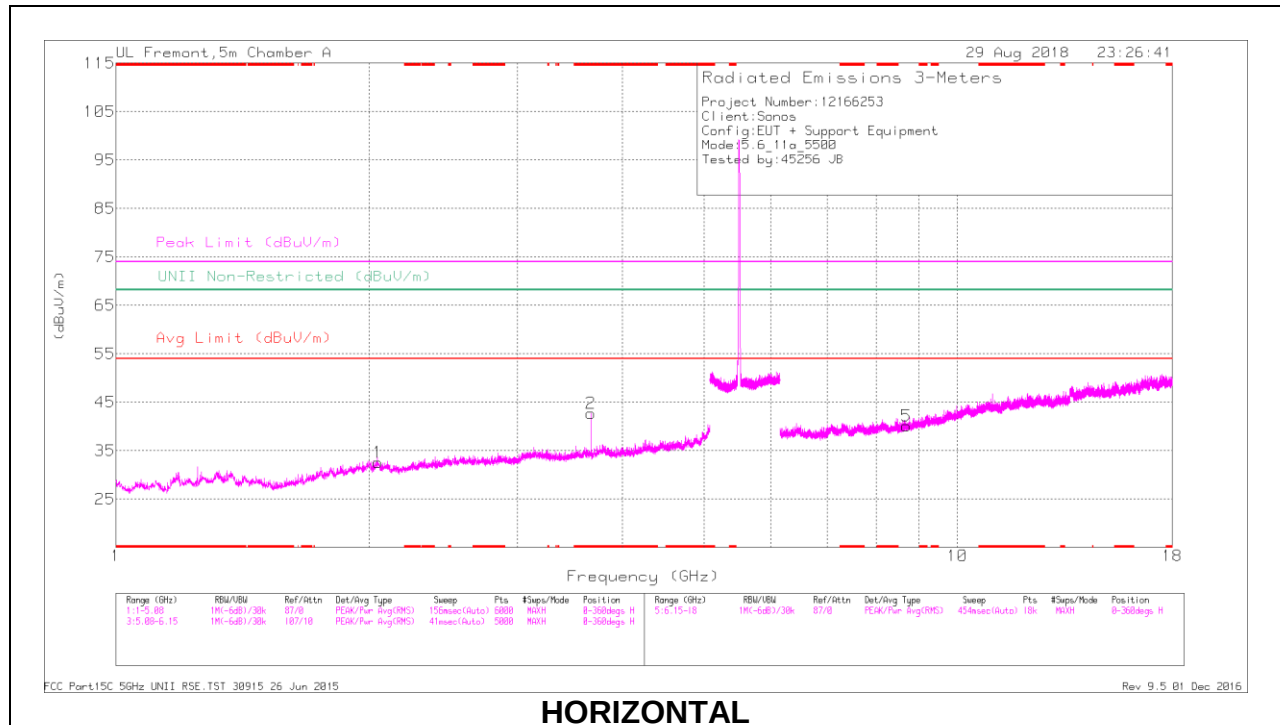


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cb/Fitr/P ad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.725	47.79	Pk	35	-17.9	0	64.89	68.2	-3.31	202	234	V
2	5.728	49.59	Pk	35	-17.9	0	66.69	68.2	-1.51	202	234	V

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

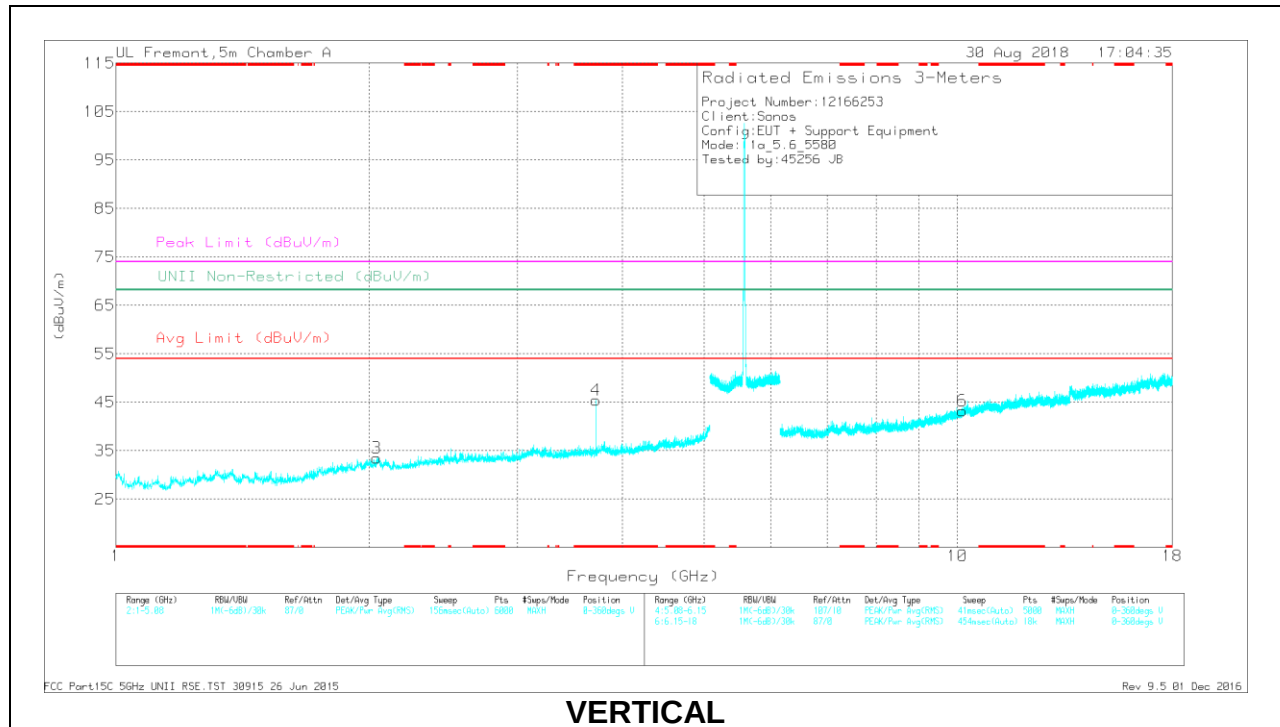
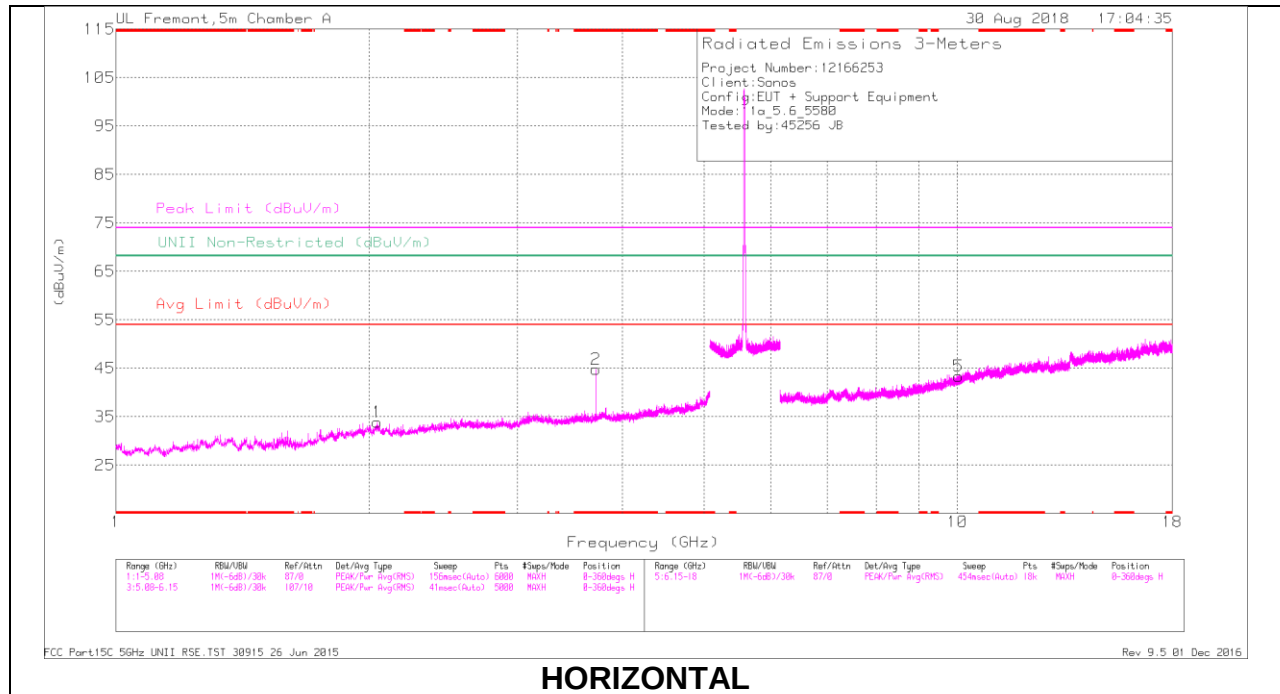


RADIATED EMISSIONS

Frequency (MHz)	Meter Reading (dBuV)	Det	AF T62 (dBm)	Amplifier Reading (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
* 3.667	42.98	PK-U	33	-28.6	0	47.38	-	-	74	-26.62	-	-	76	174	H
* 3.667	38.09	ADR	33	-28.6	.1	42.59	54	-11.41	-	-	-	-	76	174	H
* 3.667	44.53	PK-U	33	-28.6	0	48.93	-	-	74	-25.07	-	-	141	185	V
* 3.667	41	ADR	33	-28.6	.1	45.5	54	-8.5	-	-	-	-	141	185	V
2.046	38.66	PK-U	31.4	-29.9	0	40.16	-	-	-	-	68.2	-28.04	84	164	H
2.052	38.14	PK-U	31.4	-30	0	38.54	-	-	-	-	68.2	-28.66	307	223	V
8.693	32.43	PK-U	36	-21.9	0	46.53	-	-	-	-	68.2	-21.67	75	289	H
8.728	32.88	PK-U	36	-21.8	0	47.08	-	-	-	-	68.2	-21.11	28	174	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK-U - U-NII: Maximum Peak
ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

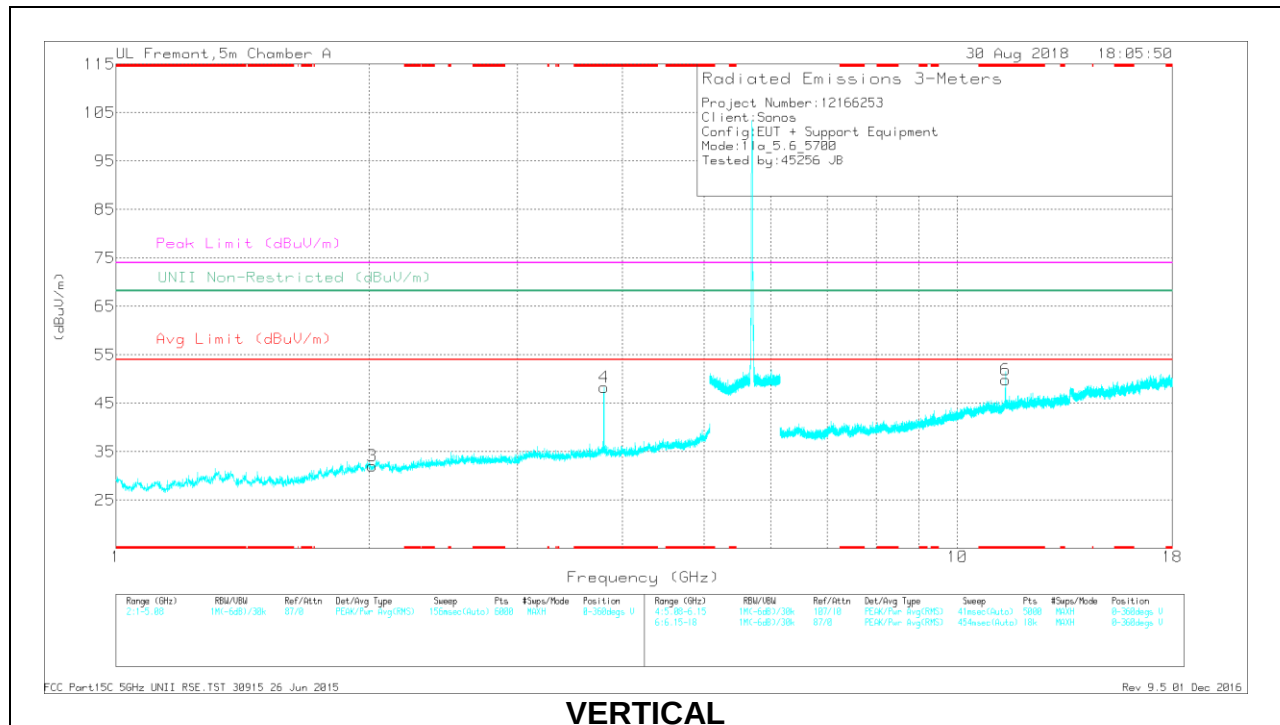
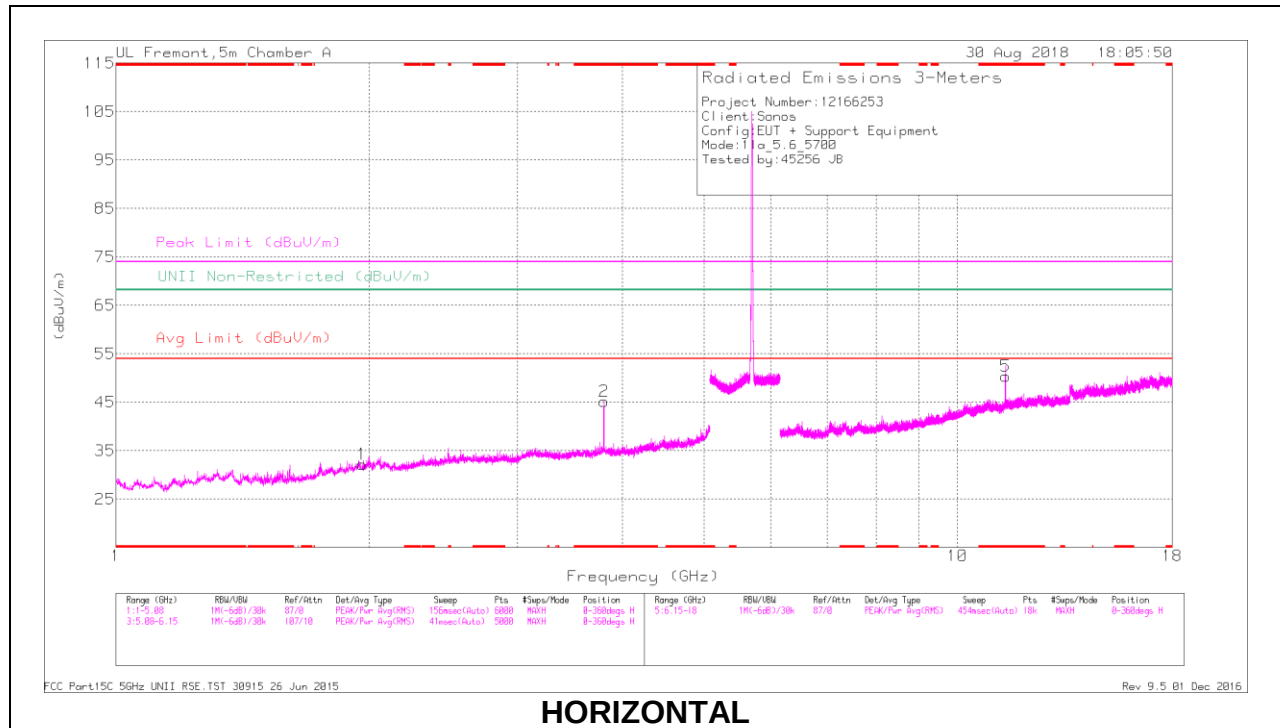
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amplifier Reading (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.72	38.89	PK-U	33.1	-28.6	0	43.39	-	-	74	-30.61	-	-	320	103	V
* 3.72	30.25	ADR	33.1	-28.6	.1	34.85	54	-19.15	-	-	-	-	320	103	V
2.041	38.06	PK-U	31.4	-29.9	0	39.56	-	-	-	-	68.2	-28.64	281	147	V
2.046	38.41	PK-U	31.4	-29.9	0	39.91	-	-	-	-	68.2	-28.29	213	137	H
2.976	26.25	ADR	32.3	-29.9	.1	28.75	-	-	-	-	-	-	265	105	H
2.991	38.28	PK-U	32.3	-29.8	0	40.78	-	-	-	-	68.2	-27.42	265	105	H
10.023	31.89	PK-U	37.5	-20	0	49.19	-	-	-	-	68.2	-19.01	150	367	H
10.137	32.43	PK-U	37.4	-20.2	0	49.63	-	-	-	-	68.2	-18.57	58	162	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T62 (dB/m)	Amp/Ctrl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unfil Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	38	PK-U	33.2	-27.6	0	43.6	-	-	74	-30.4	-	-	160	289	H
* 3.8	29.6	ADR	33.2	-27.6	.1	35.3	54	-18.7	-	-	-	-	160	289	H
* 3.8	39.65	PK-U	33.2	-27.6	0	45.25	-	-	74	-28.75	-	-	207	119	V
* 3.8	30.98	ADR	33.2	-27.6	.1	36.68	54	-17.32	-	-	-	-	207	119	V
* 11.408	31.4	PK-U	38.2	-18.6	0	51	-	-	74	-23	-	-	209	115	H
* 11.407	20.09	ADR	38.2	-18.6	.1	39.79	54	-14.21	-	-	-	-	209	115	H
* 11.406	31.3	PK-U	38.2	-18.6	0	50.9	-	-	74	-23.1	-	-	20	158	V
* 11.405	20.05	ADR	38.2	-18.6	.1	39.75	54	-14.25	-	-	-	-	20	158	V
1.963	38.49	PK-U	31.4	-30.9	0	38.99	-	-	-	-	68.2	-29.21	319	138	H
2.015	37.82	PK-U	31.4	-30.4	0	38.82	-	-	-	-	68.2	-29.38	294	249	V

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

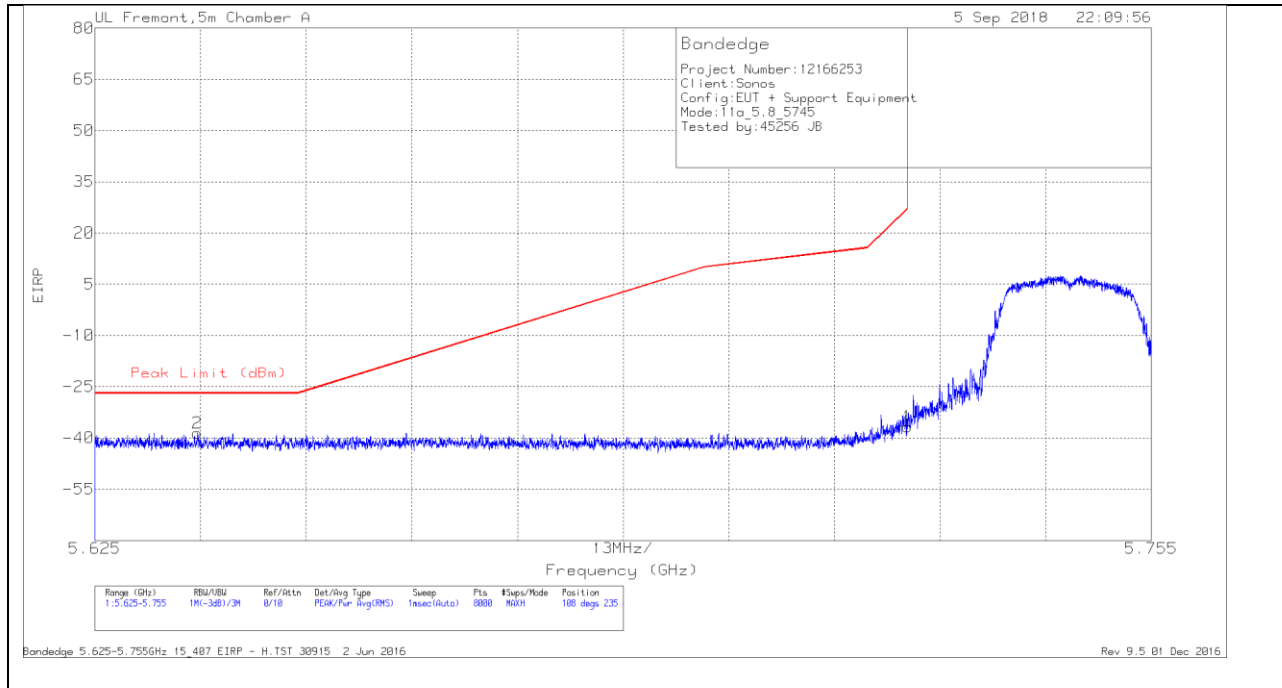
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

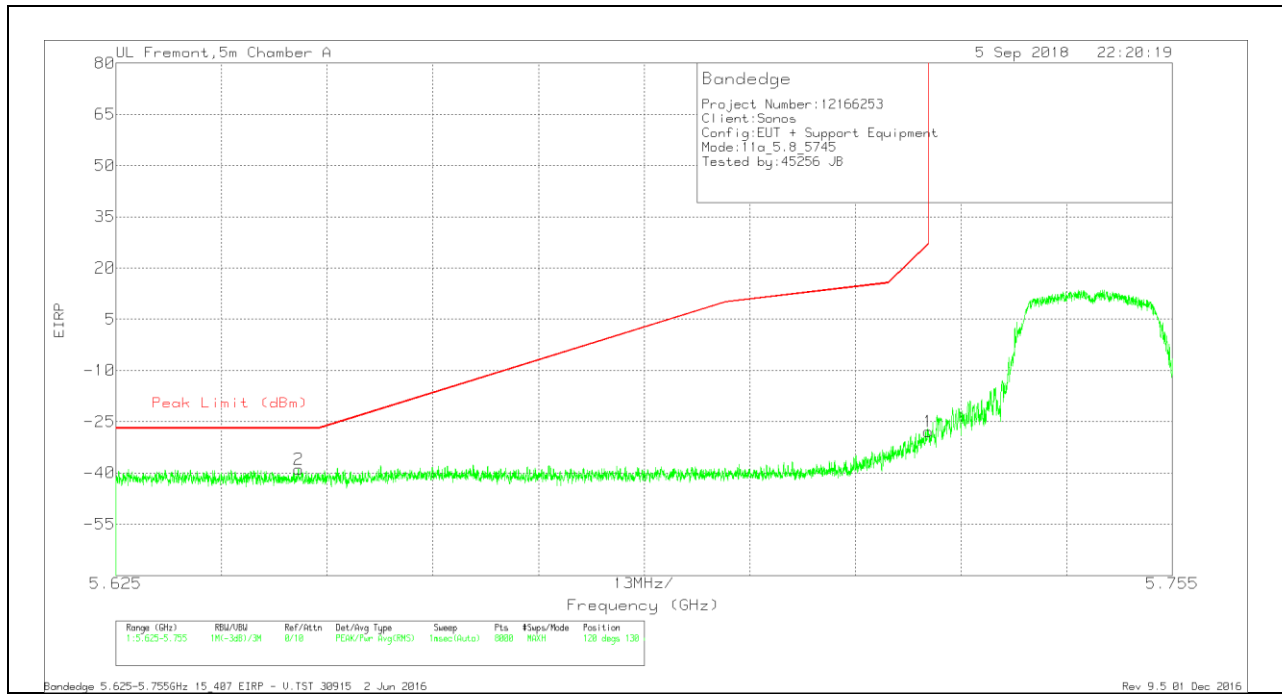
BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



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

VERTICAL RESULT

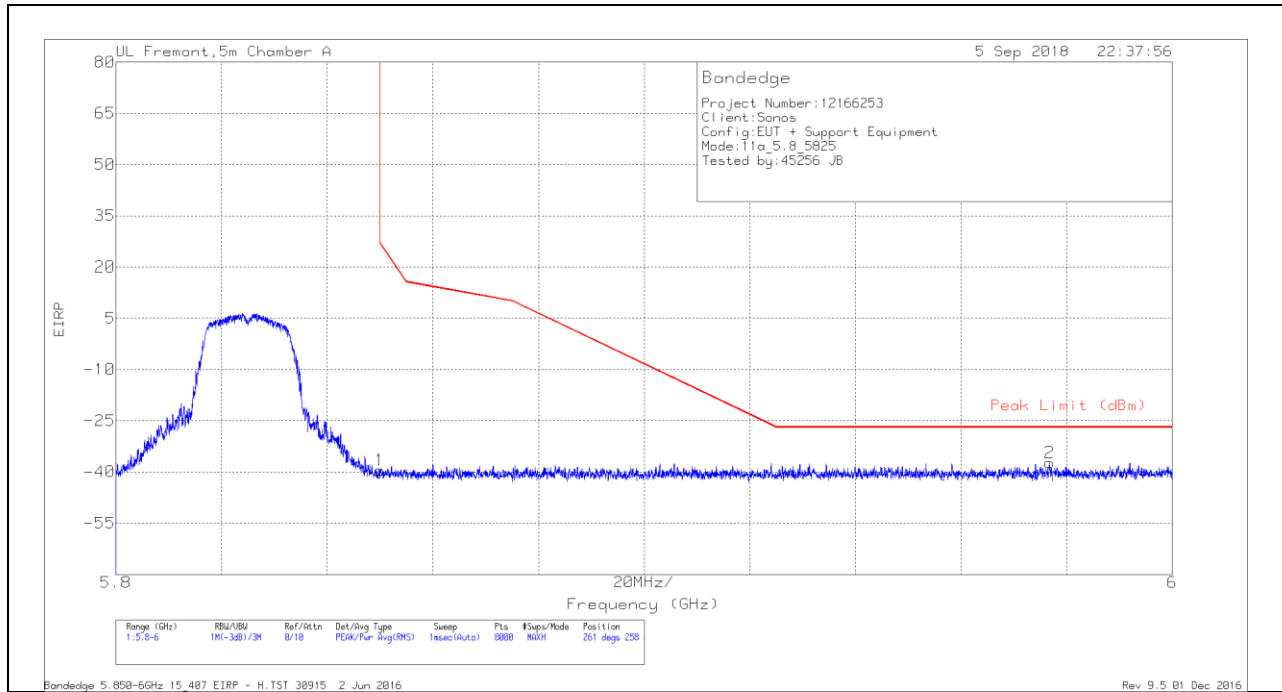


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T862 (dBm)	Amp/Cbl/Filtr/ Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	5.647	-67.91	Pk	35.1	-18	11.8	0	-39.01	-27	-12.01	120	130	V
1	5.725	-56.86	Pk	35	-17.9	11.8	0	-27.96	27	-54.96	120	130	V

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

BANDEDGE (HIGH CHANNEL)

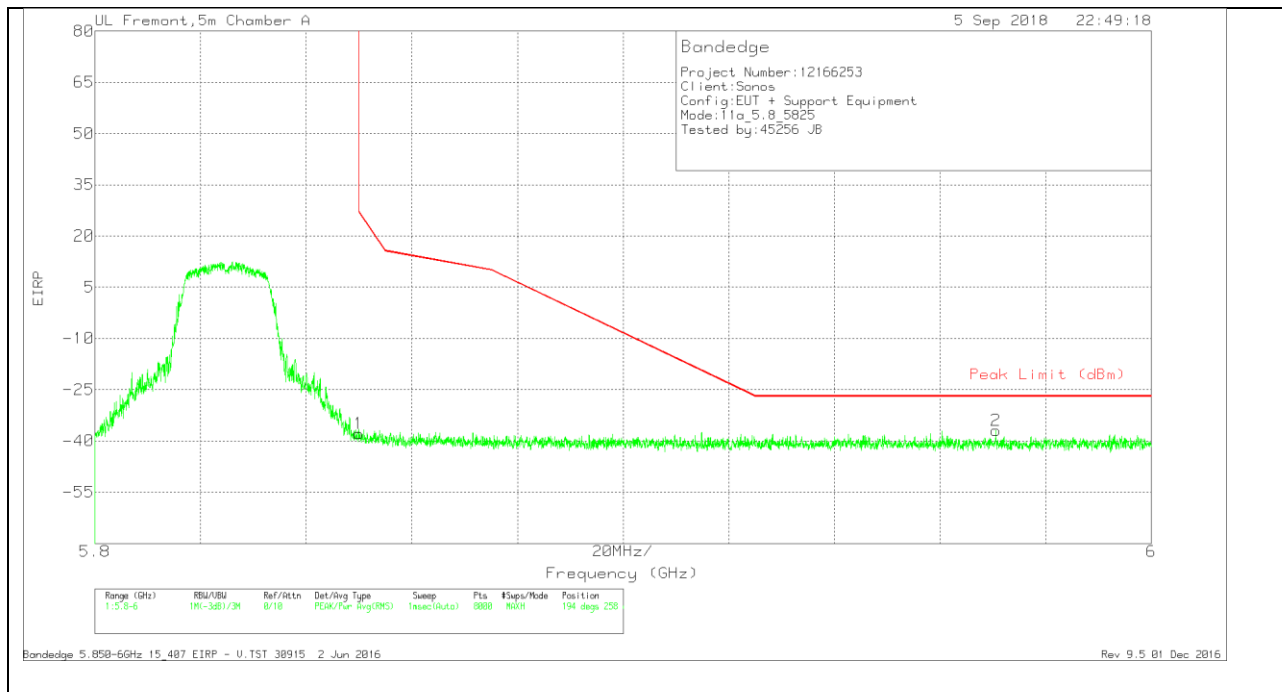
HORIZONTAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T862 (dBm)	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	-68.66	Pk	35.1	-17.8	11.8	0	-39.56	26.99	-66.55	261	258	H
2	5.977	-67.03	Pk	35.3	-17.4	11.8	0	-37.33	-27	-10.33	261	258	H

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

VERTICAL RESULT

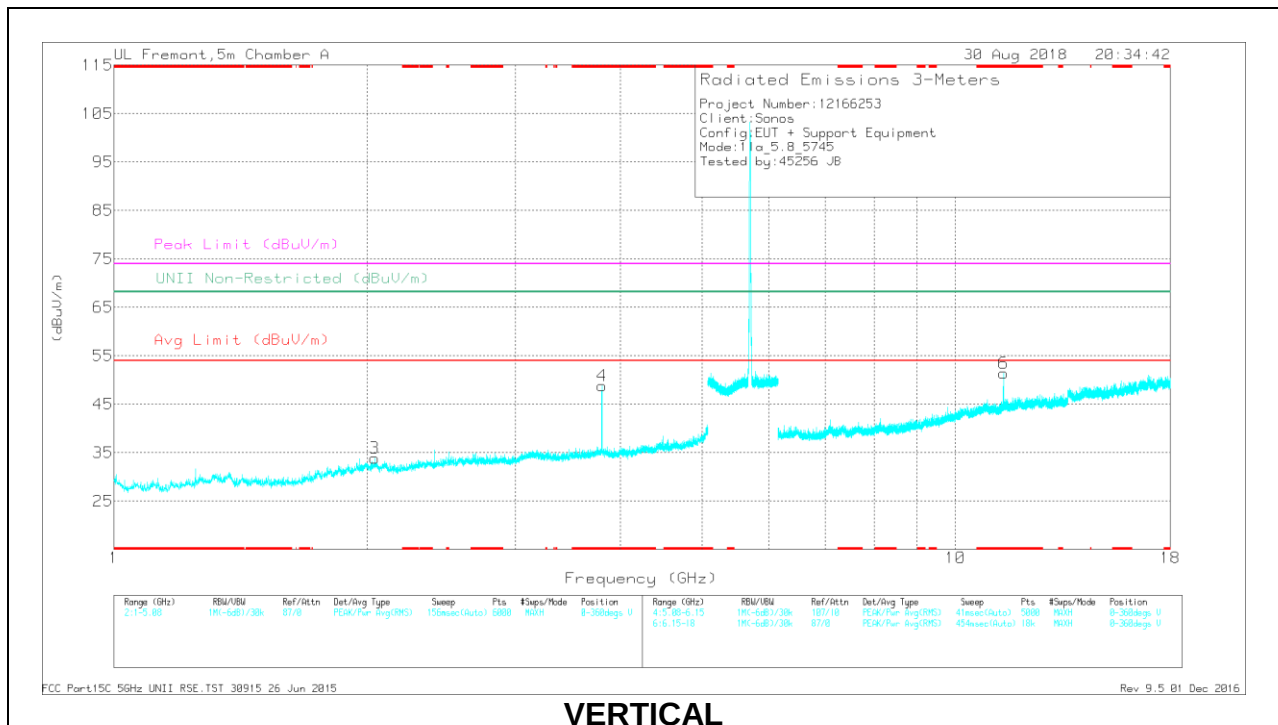
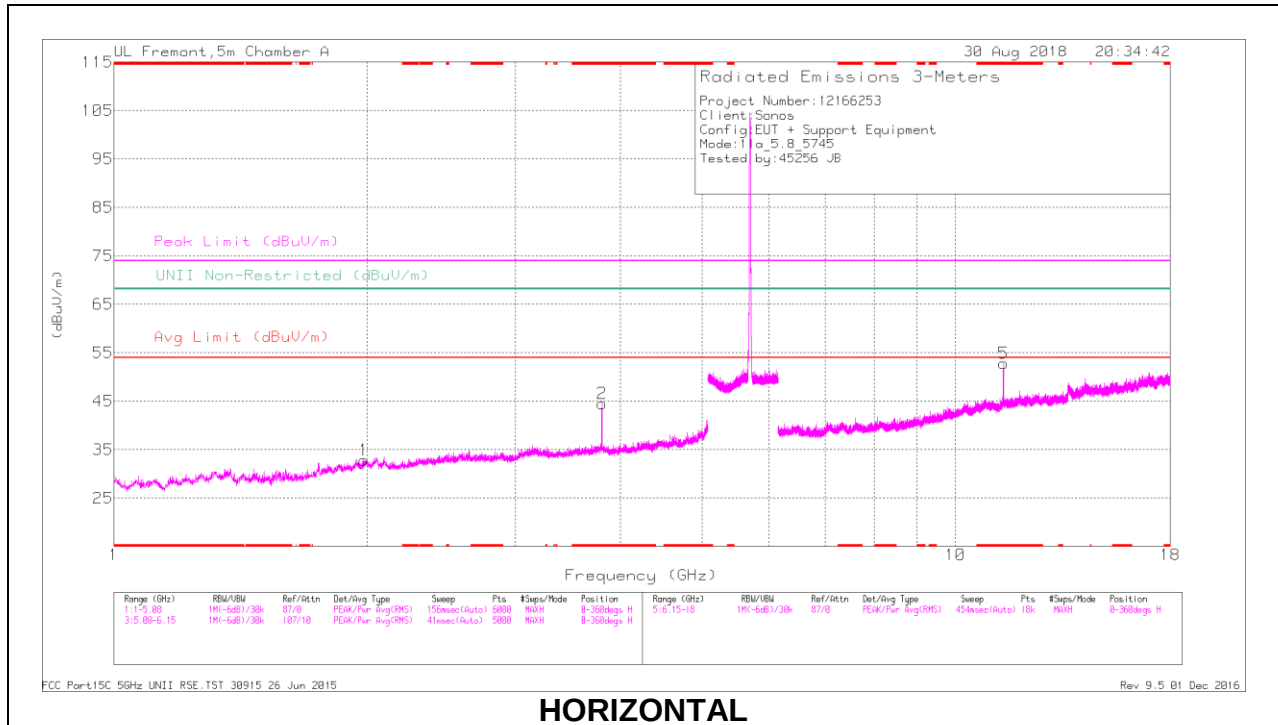


Marker	Frequenc y (GHz)	Meter Reading (dBm)	Det	AF T862 (dBm)	Amp/Cbl/Filtr/ Pad (dB)	Conversion Factor (dB)	DC Corr (dB)	Correcte d Reading EIRP	Peak Limit (dBm)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	5.85	-67.01	Pk	35.1	-17.8	11.8	0	-37.91	26.99	-64.9	194	258	V
2	5.971	-66.57	Pk	35.3	-17.4	11.8	0	-36.87	-27	-9.87	194	258	V

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

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

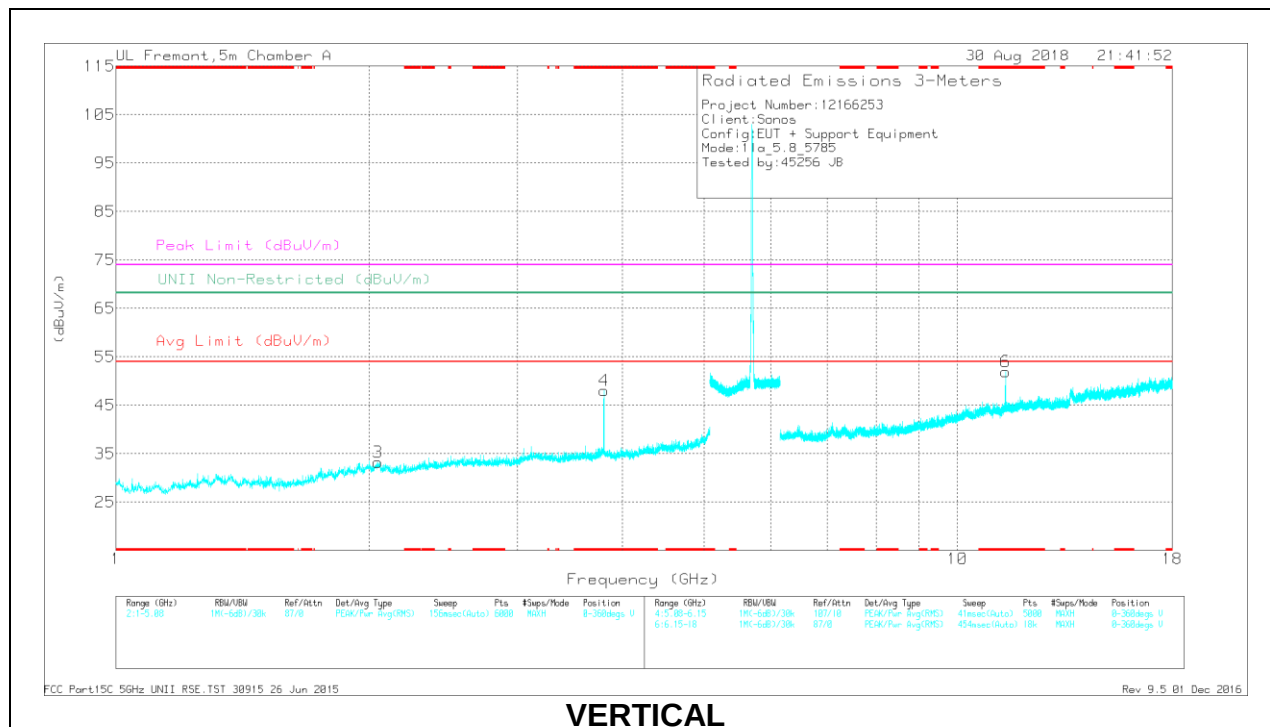
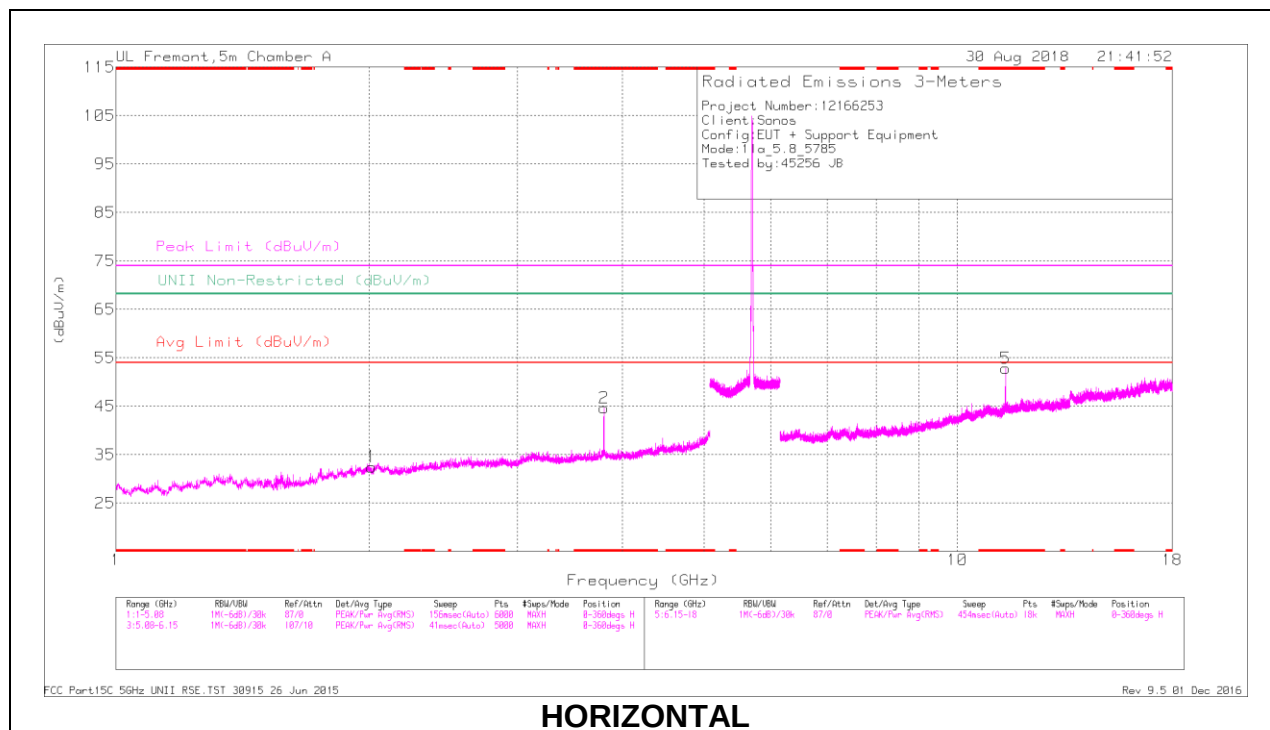
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T62 (dB/m)	Amp/ChFilt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	43.86	PK-U	33.2	-27.6	0	49.46	-	-	74	-24.54	-	-	65	227	H
* 3.8	39.74	ADR	33.2	-27.6	.1	45.44	54	-8.56	-	-	-	-	65	227	H
* 3.8	45.8	PK-U	33.2	-27.6	0	51.4	-	-	74	-22.6	-	-	298	111	V
* 3.8	43.09	ADR	33.2	-27.6	.1	48.79	54	-5.21	-	-	-	-	298	111	V
* 11.403	40.07	PK-U	38.2	-18.6	0	59.67	-	-	74	-14.33	-	-	4	103	H
* 11.403	28.39	ADR	38.2	-18.6	.1	48.09	54	-5.91	-	-	-	-	4	103	H
* 11.403	40.21	PK-U	38.2	-18.6	0	59.81	-	-	74	-14.19	-	-	58	106	V
* 11.402	28.35	ADR	38.2	-18.6	.1	48.05	54	-5.95	-	-	-	-	58	106	V
2.042	38.2	PK-U	31.4	-29.9	0	39.7	-	-	-	-	68.2	-28.5	59	269	V
3.018	38.3	PK-U	32.5	-29.7	0	41.1	-	-	-	-	68.2	-27.1	52	227	H

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



RADIATED EMISSIONS

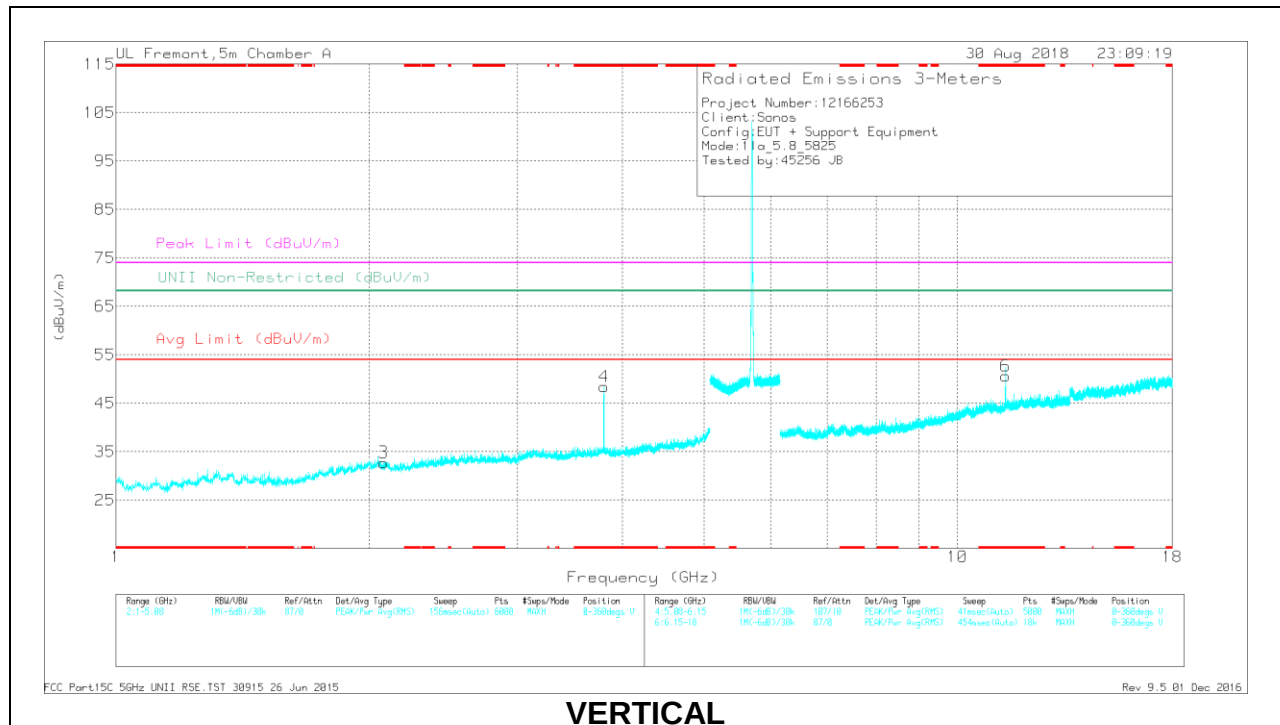
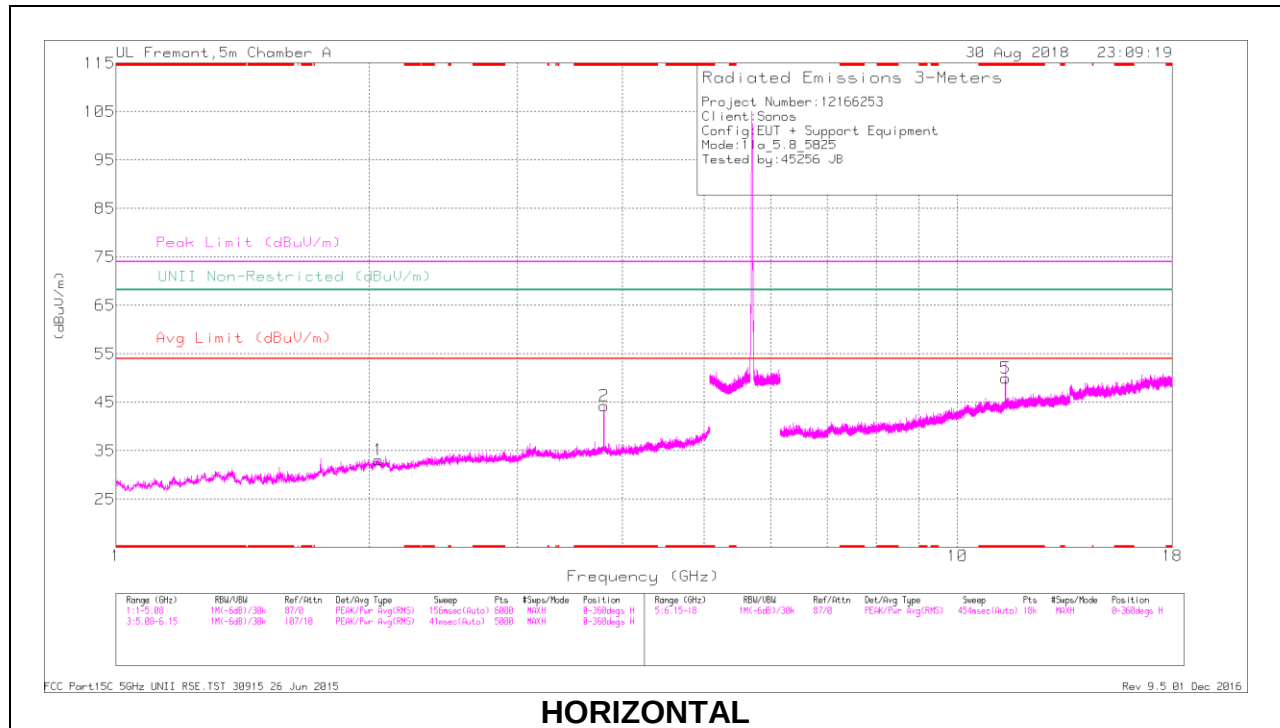
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T62 (dB/m)	Amp/Cable/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.8	44.33	PK-U	33.2	-27.6	0	49.93	-	-	74	-24.07	-	-	168	166	H
* 3.8	40.59	ADR	33.2	-27.6	.1	46.29	54	-7.71	-	-	-	-	168	166	H
* 3.8	45.94	PK-U	33.2	-27.6	0	51.54	-	-	74	-22.46	-	-	298	110	V
* 3.8	42.88	ADR	33.2	-27.6	.1	48.58	54	-5.42	-	-	-	-	298	110	V
* 11.402	40.35	PK-U	38.2	-18.7	0	59.85	-	-	74	-14.15	-	-	3	101	H
* 11.402	28.53	ADR	38.2	-18.6	.1	46.23	54	-5.77	-	-	-	-	3	101	H
* 11.405	38.19	PK-U	38.2	-18.6	0	57.79	-	-	74	-16.21	-	-	282	103	V
* 11.406	26.71	ADR	38.2	-18.6	.1	46.41	54	-7.59	-	-	-	-	282	103	V
2.014	38.65	PK-U	31.4	-30.4	0	39.65	-	-	-	-	68.2	-28.55	250	251	H
2.05	38.35	PK-U	31.4	-30	0	39.75	-	-	-	-	68.2	-28.45	36	203	V

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

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T62 (dB/m)	Amp/CalFtr/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
* 3.8	43.3	PK-U	33.2	-27.6	0	48.9	-	-	74	-25.1	-	-	63	226	H
* 3.8	39.22	ADR	33.2	-27.6	.1	44.92	54	-9.08	-	-	-	-	63	226	H
* 3.8	45.76	PK-U	33.2	-27.6	0	51.36	-	-	74	-22.64	-	-	300	111	V
* 3.8	42.95	ADR	33.2	-27.6	.1	48.65	54	-5.35	-	-	-	-	300	111	V
* 11.406	38.91	PK-U	38.2	-18.6	0	58.51	-	-	74	-15.49	-	-	360	110	H
* 11.406	27.28	ADR	38.2	-18.6	.1	46.98	54	-7.02	-	-	-	-	360	110	H
* 11.405	40.79	PK-U	38.2	-18.6	0	60.39	-	-	74	-13.61	-	-	138	264	V
* 11.406	29.4	ADR	38.2	-18.6	.1	49.1	54	-4.9	-	-	-	-	138	264	V
2.054	38.72	PK-U	31.4	-30.1	0	40.02	-	-	-	-	68.2	-28.18	267	115	H
2.081	38.12	PK-U	31.2	-30.1	0	39.22	-	-	-	-	68.2	-28.98	340	128	V

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

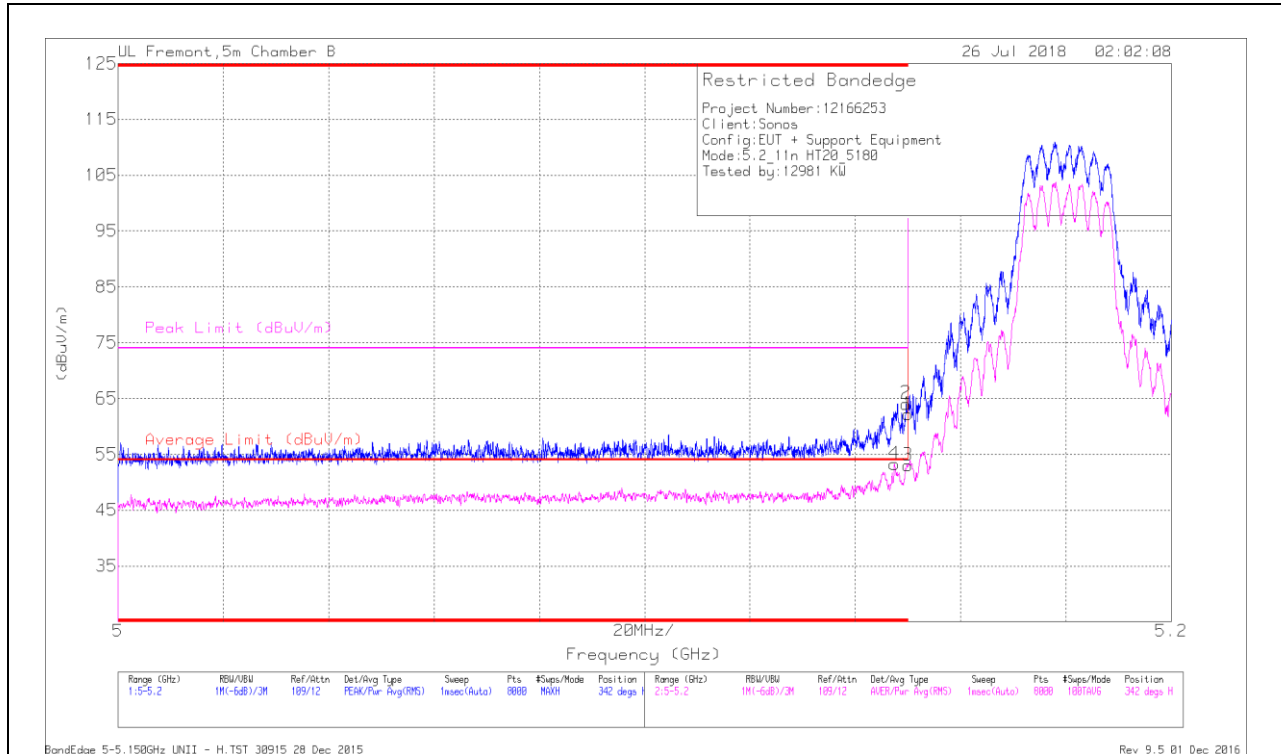
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

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

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Cbl/Ftr/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	46.06	Pk	34.6	-18.5	0	62.16	-	-	74	-11.84	342	192	H
2	* 5.15	47.95	Pk	34.6	-18.5	0	64.05	-	-	74	-9.95	342	192	H
3	* 5.15	36.55	RMS	34.6	-18.5	.32	52.97	54	-1.03	-	-	342	192	H
4	* 5.147	36.88	RMS	34.6	-18.6	.32	53.21	54	-.79	-	-	342	192	H

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

Pk - Peak detector

RMS - RMS detection