

9.9. 11n HT20 3TX CDD MIMO MODE IN THE 5.8GHz BAND

9.9.1. 6 dB BANDWIDTH

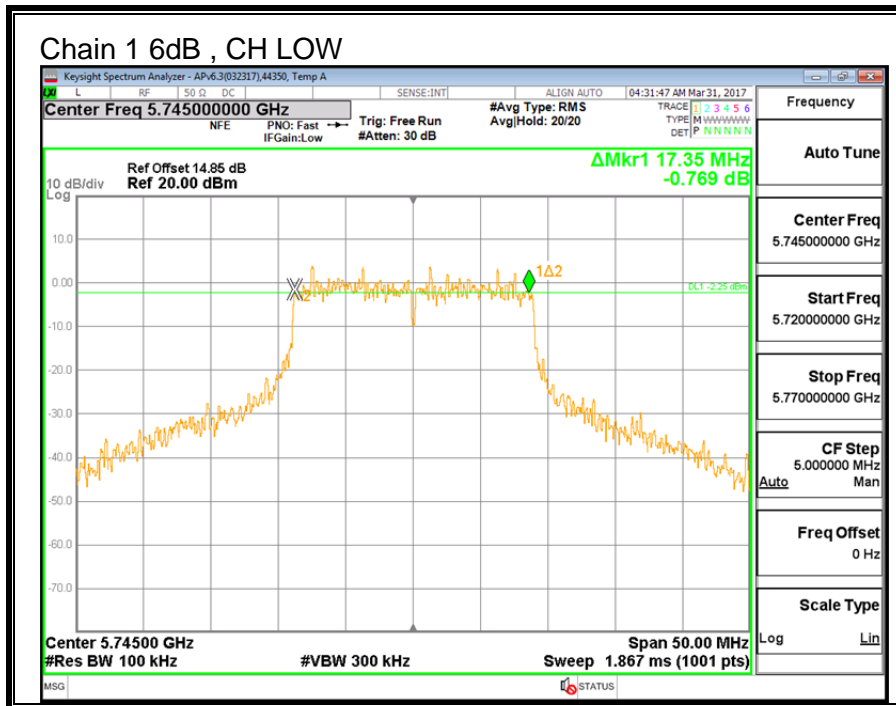
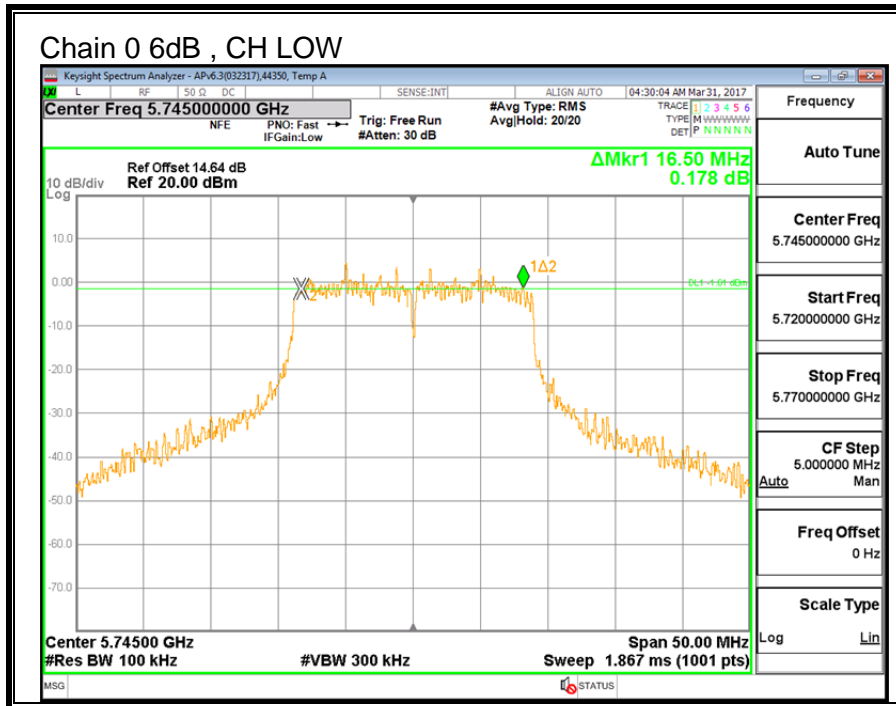
LIMITS

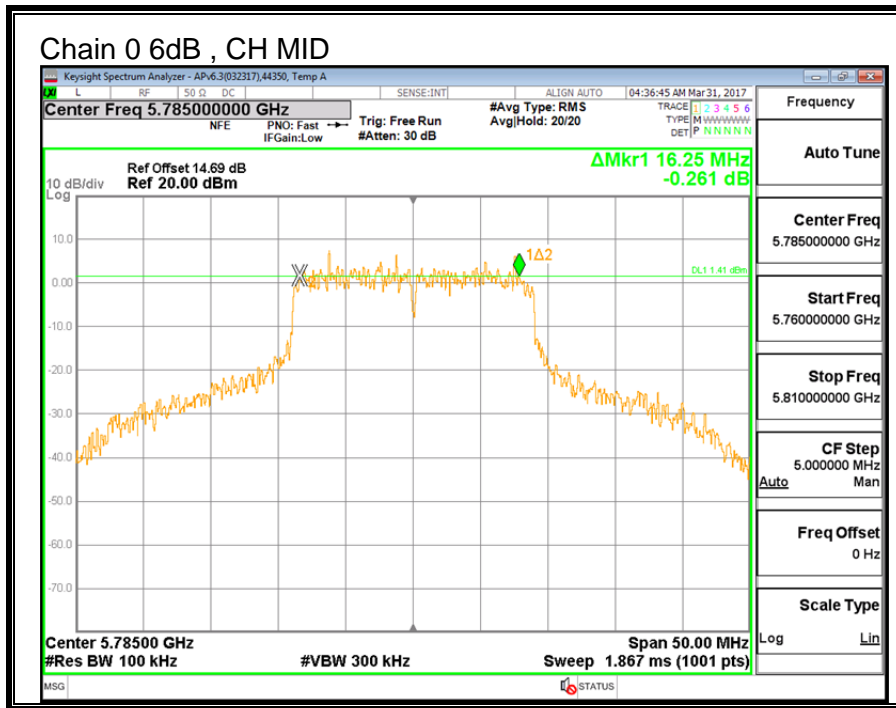
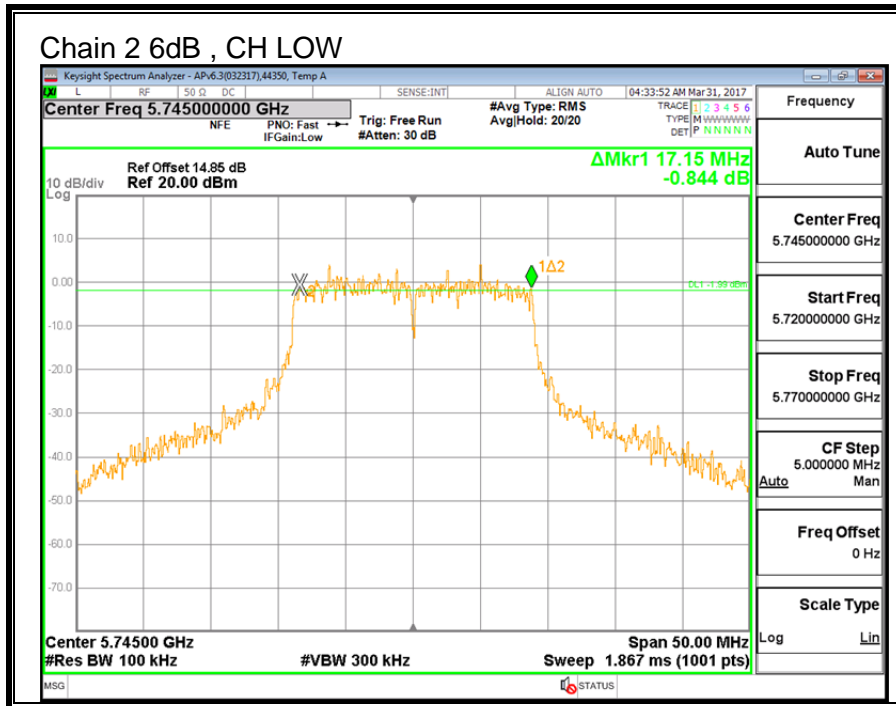
FCC §15.407 (e)

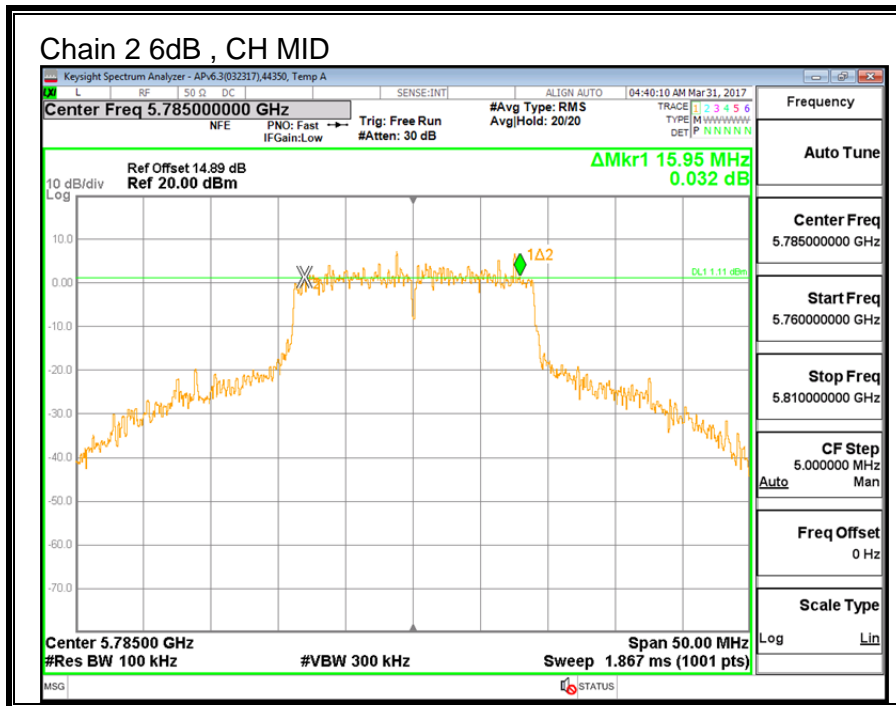
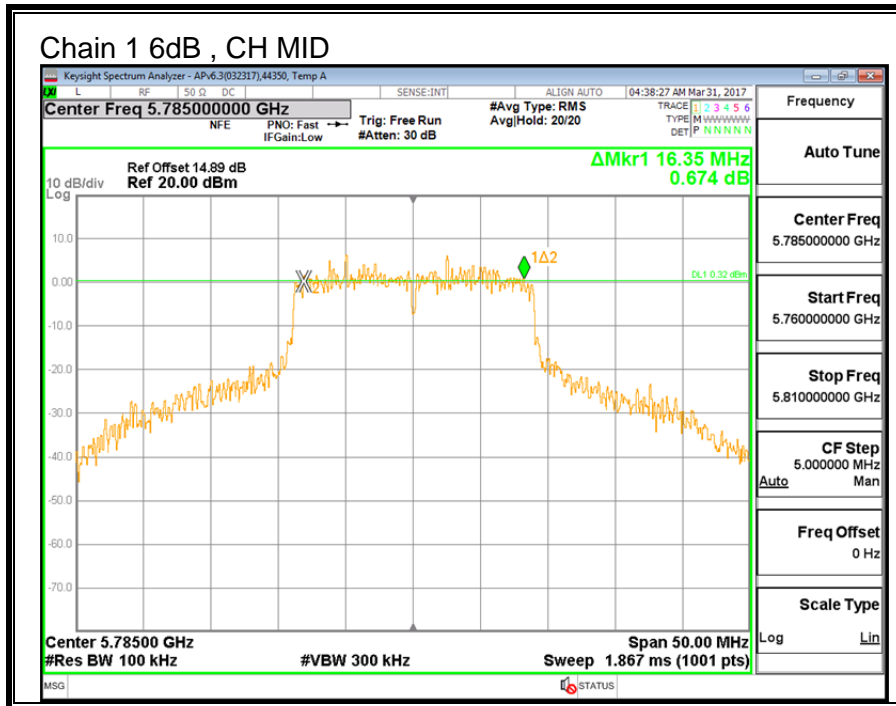
The minimum 6 dB bandwidth shall be at least 500 kHz.

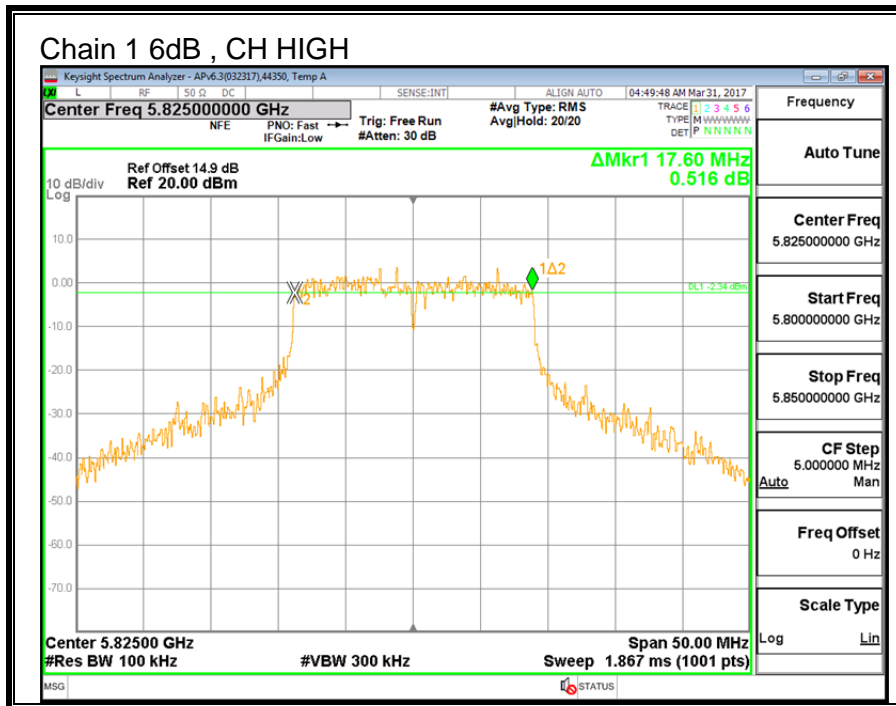
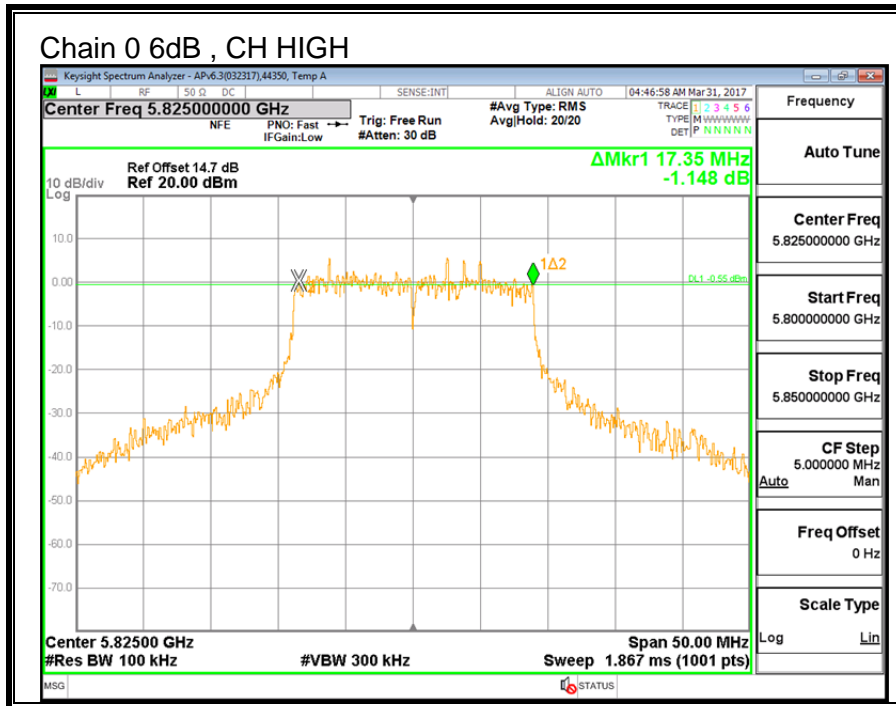
RESULTS

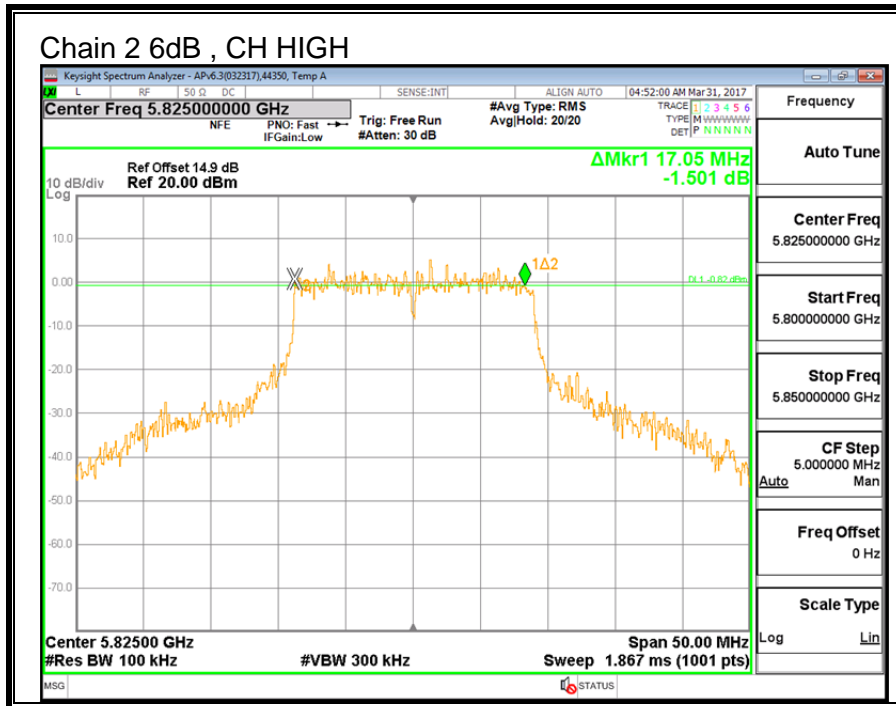
Channel	Frequency	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
Low	5745	16.50	17.35	17.15	0.5
Mid	5785	16.25	16.35	15.95	0.5
High	5825	17.35	17.60	17.05	0.5











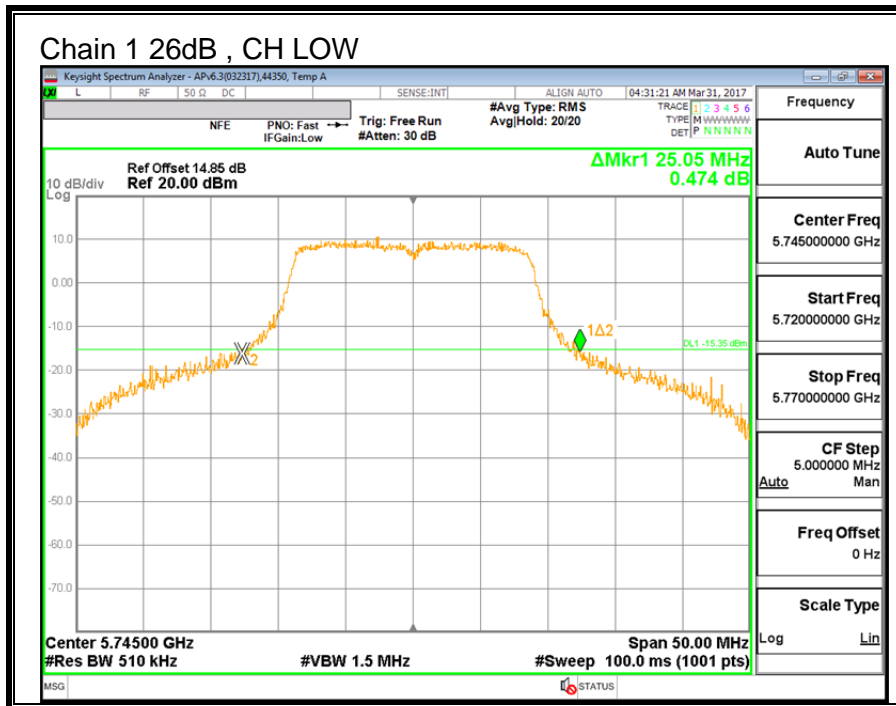
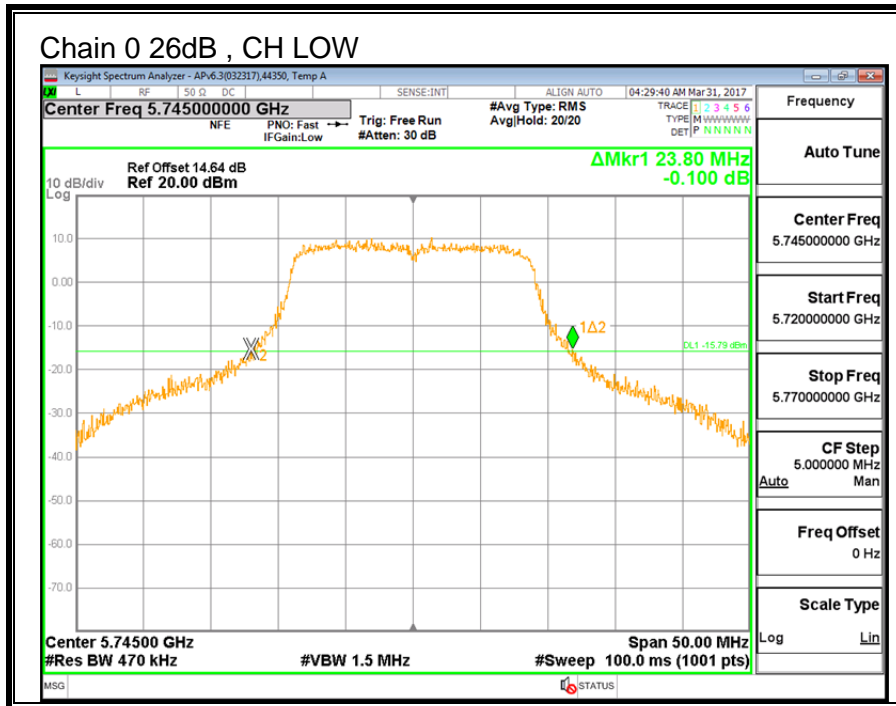
9.9.2. 26 dB BANDWIDTH

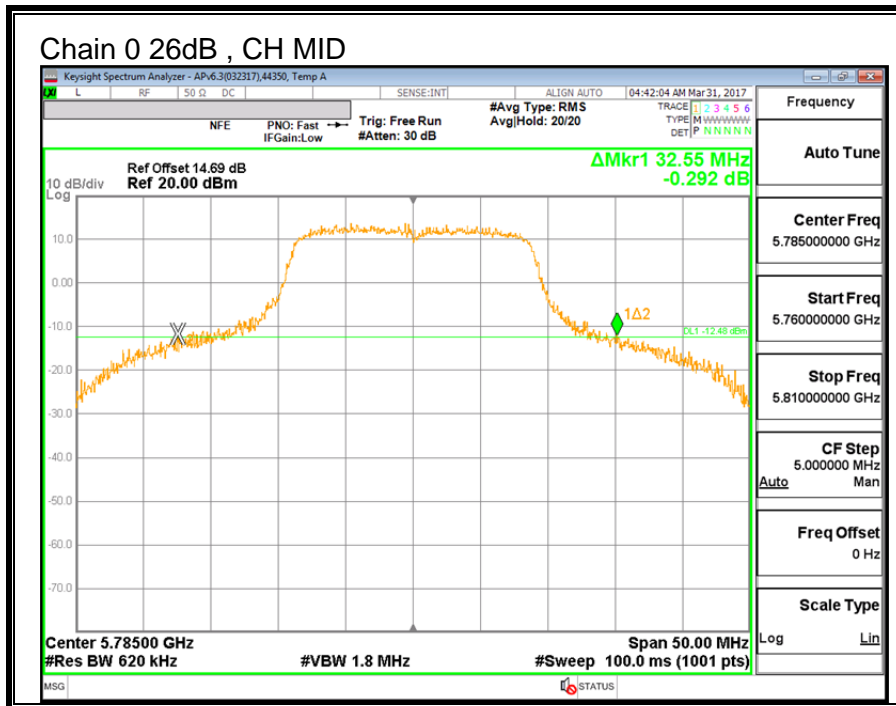
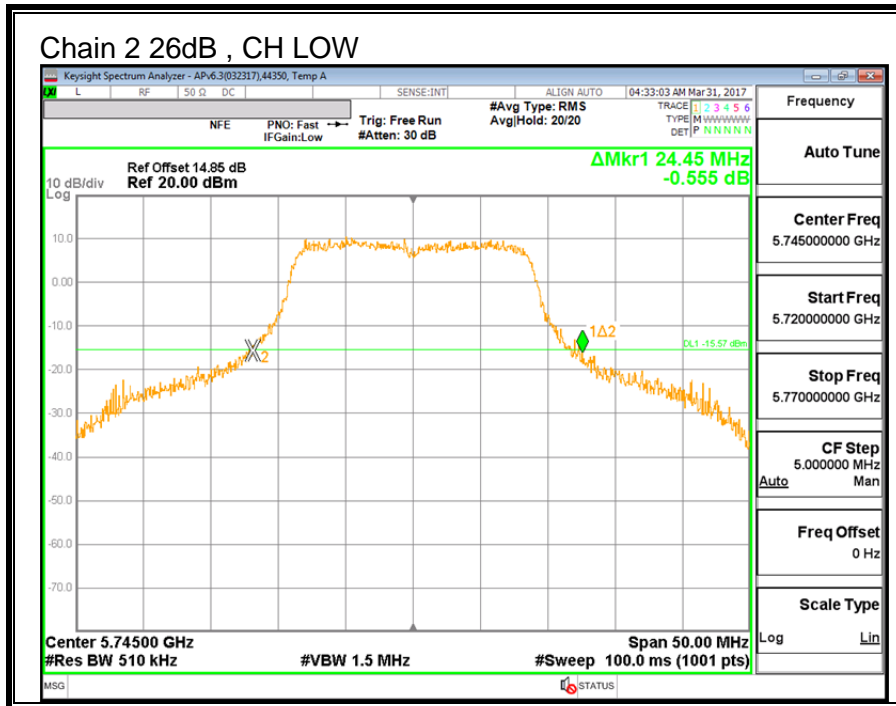
LIMITS

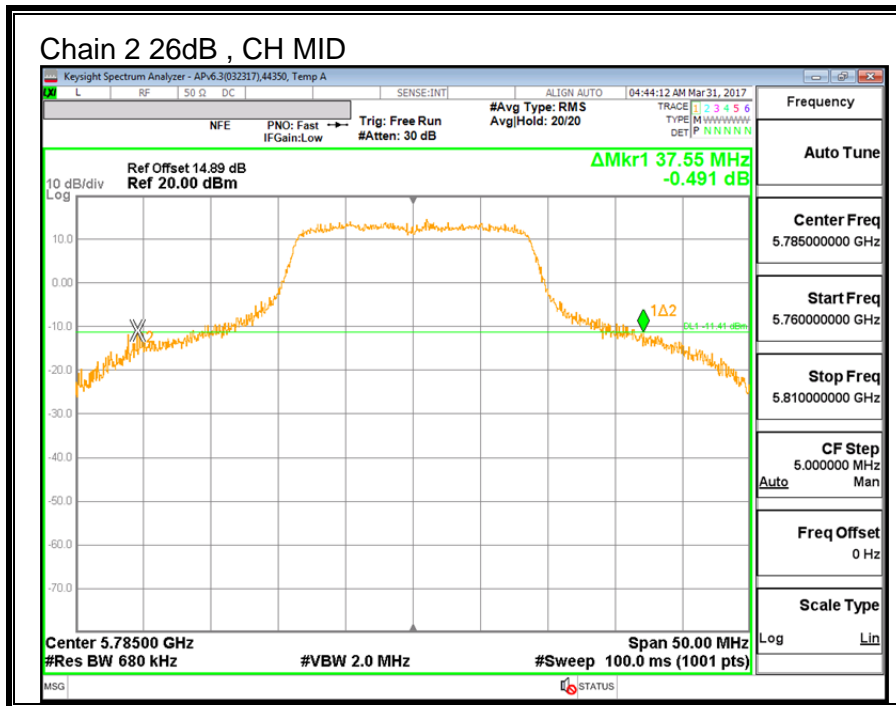
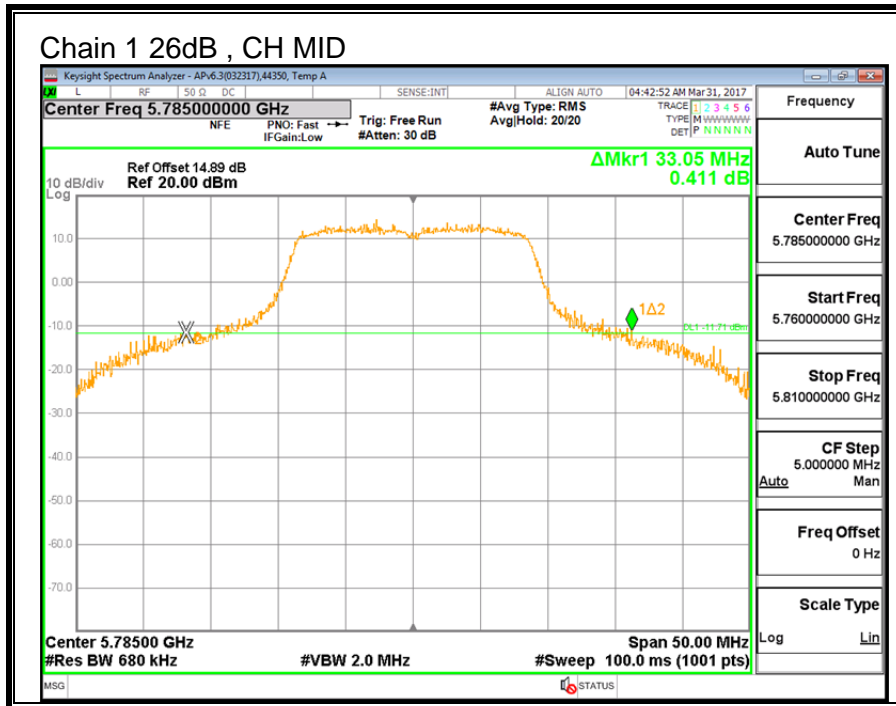
None; for reporting purposes only.

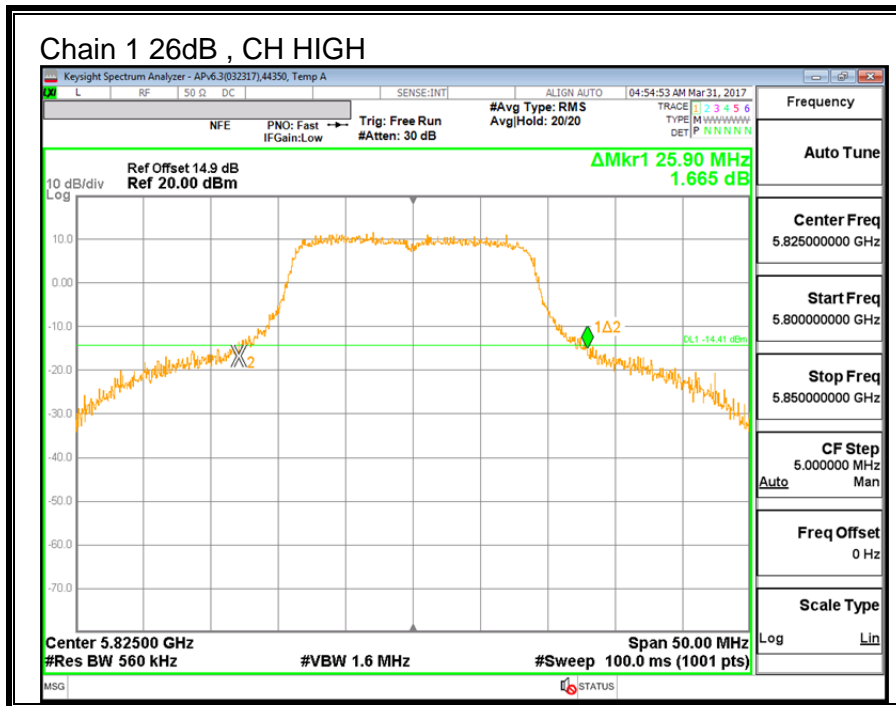
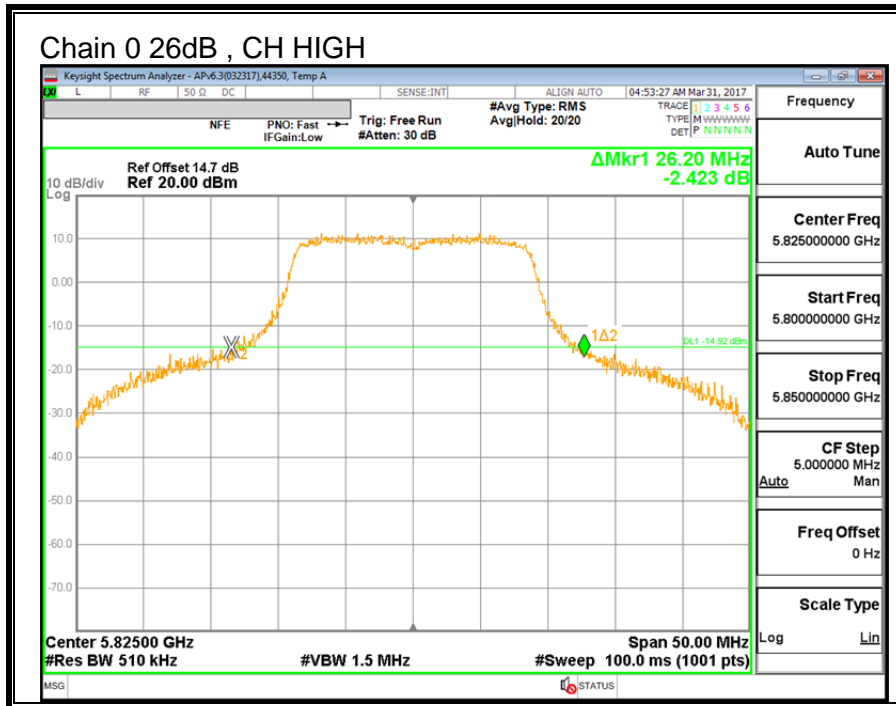
RESULTS

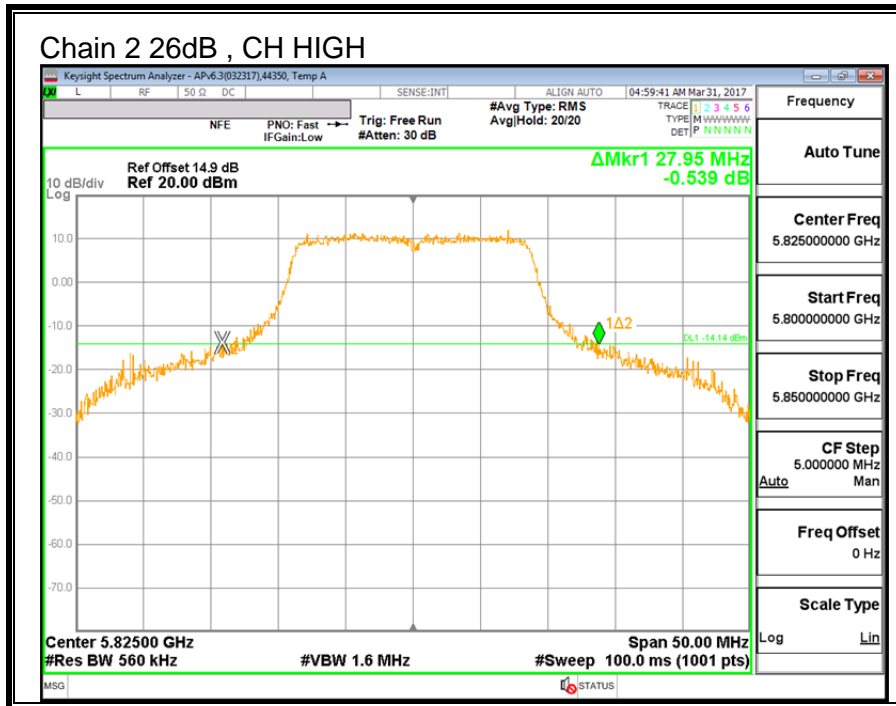
Channel	Frequency	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)	26 dB BW Chain 2 (MHz)
Low	5745	23.80	25.05	24.45
Mid	5785	32.55	33.05	37.55
High	5825	26.20	25.90	27.95











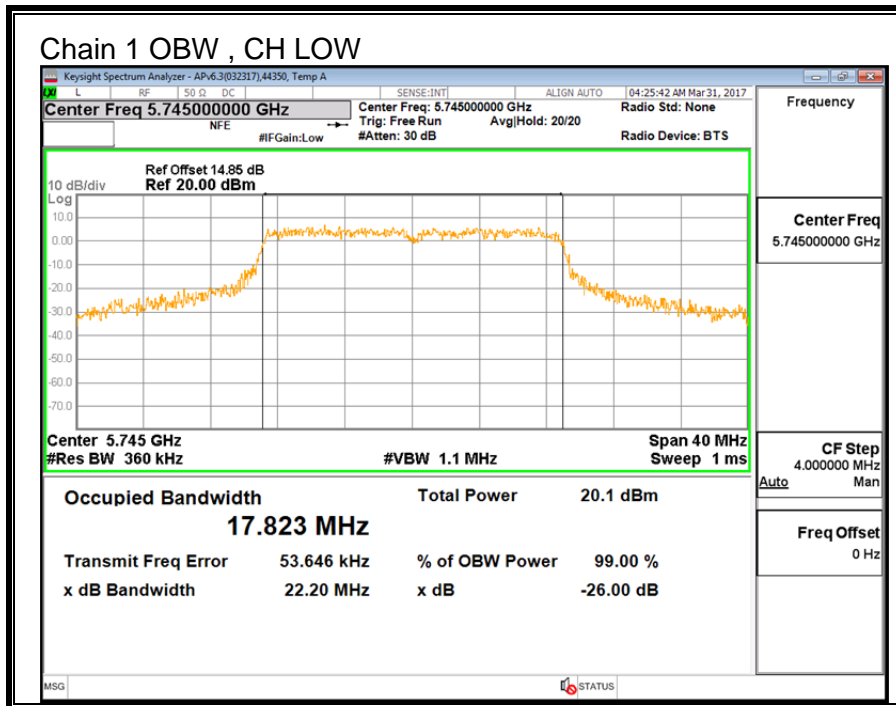
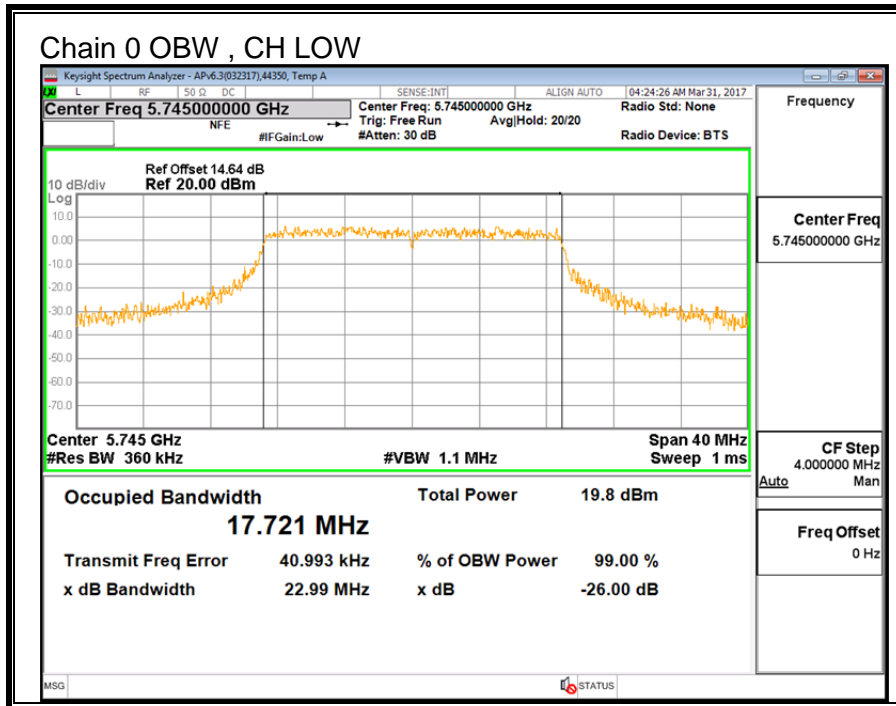
9.9.3. 99% BANDWIDTH

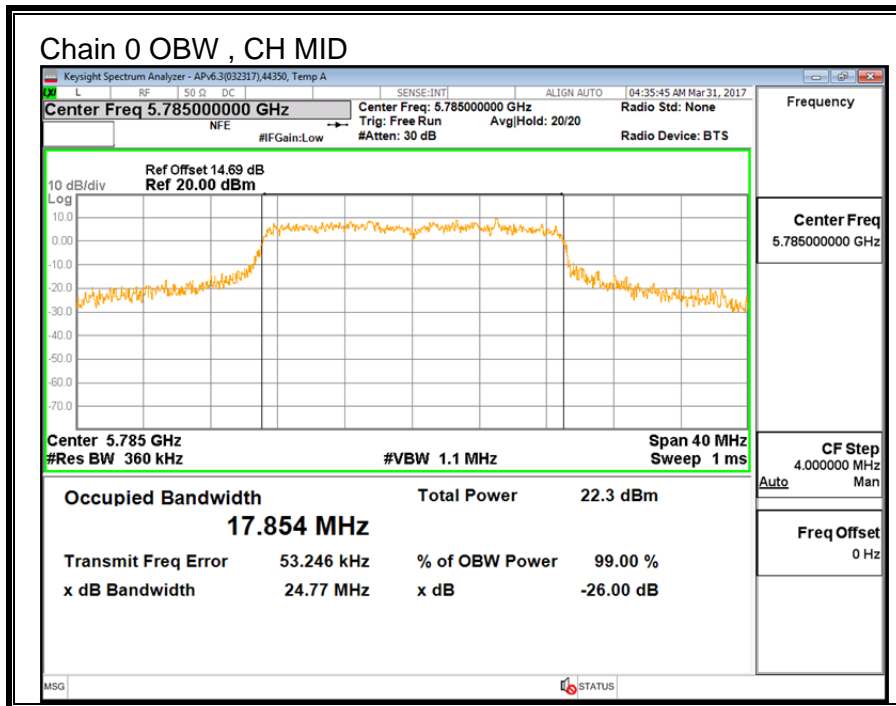
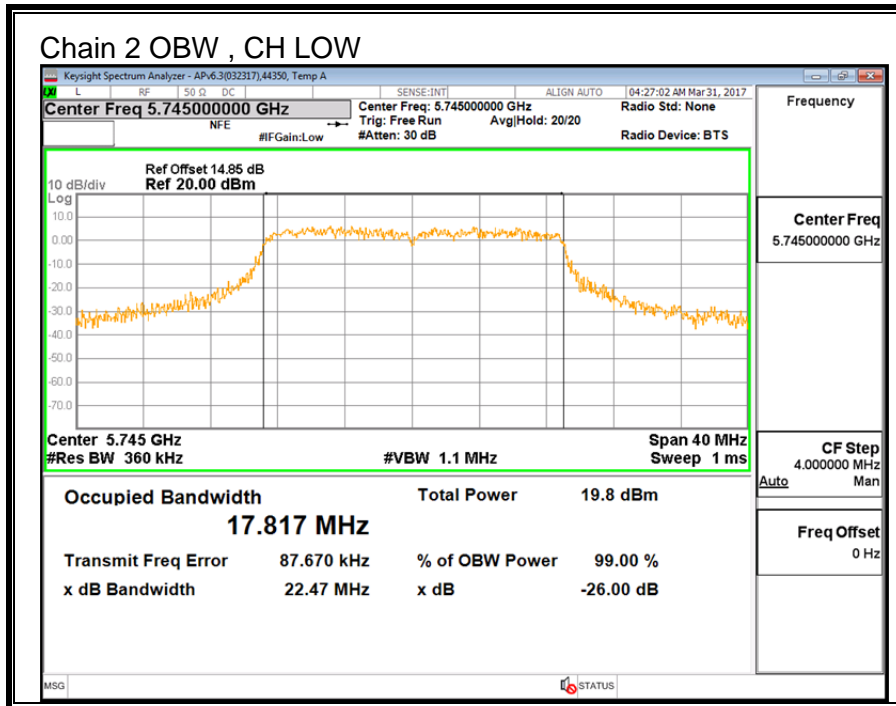
LIMITS

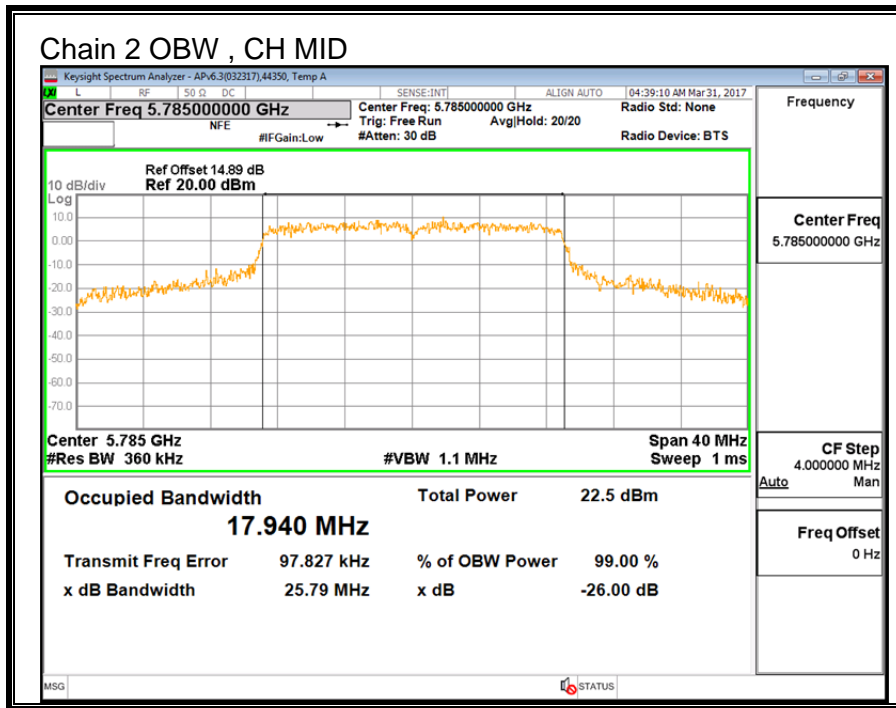
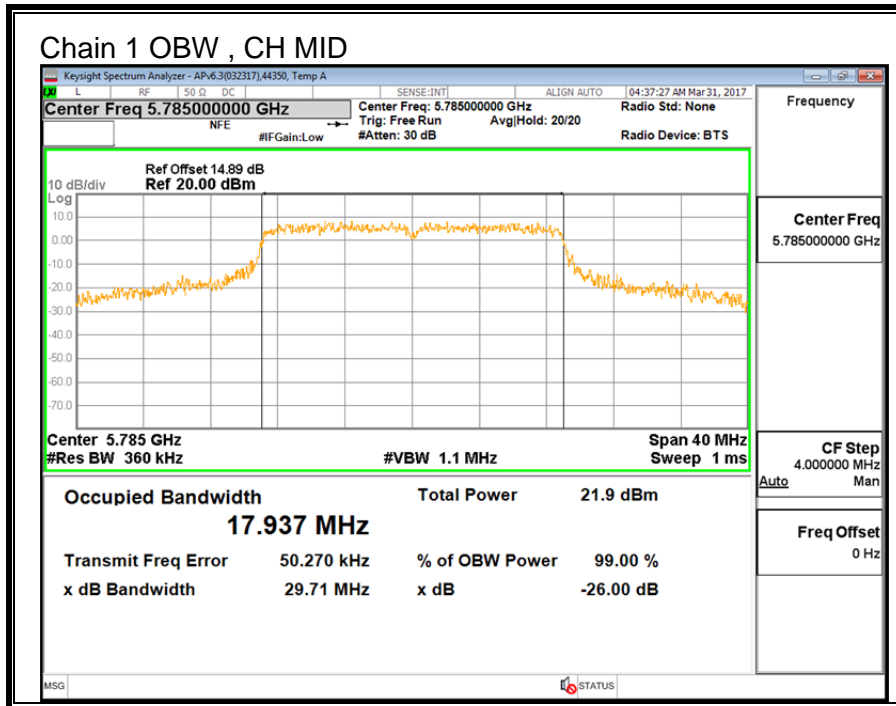
None; for reporting purposes only.

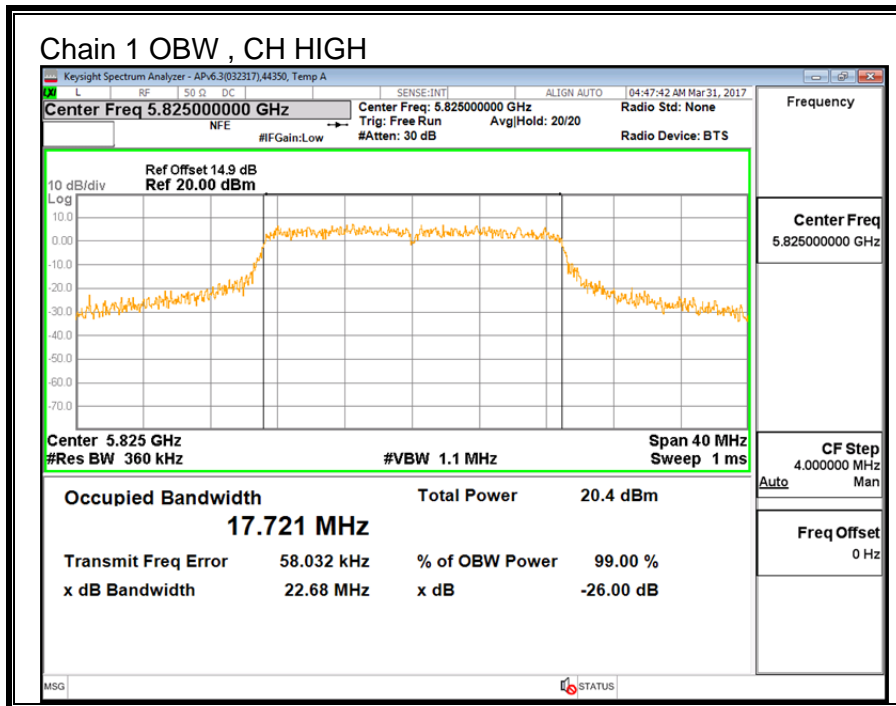
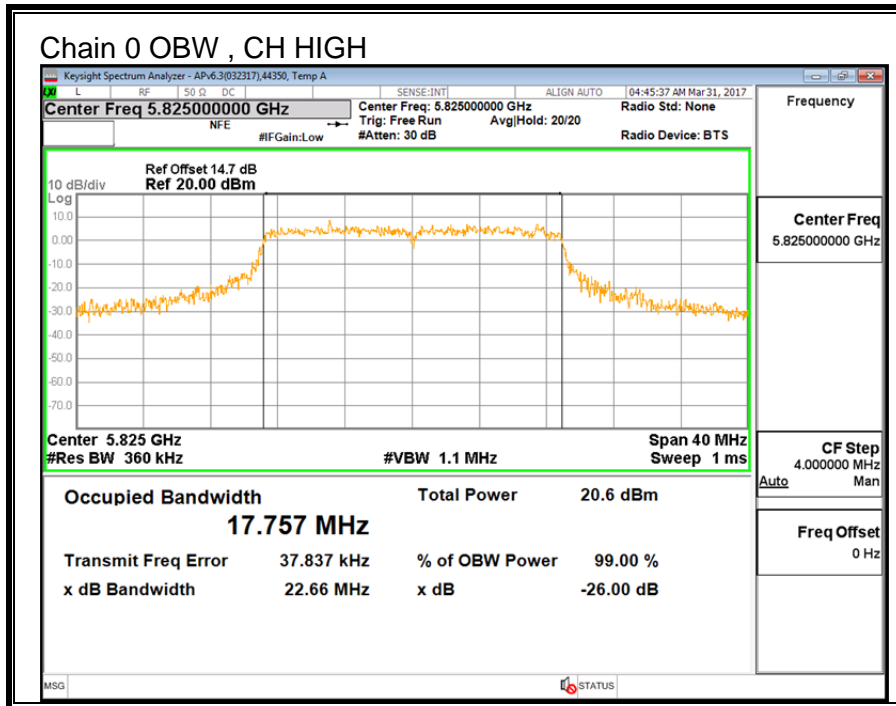
RESULTS

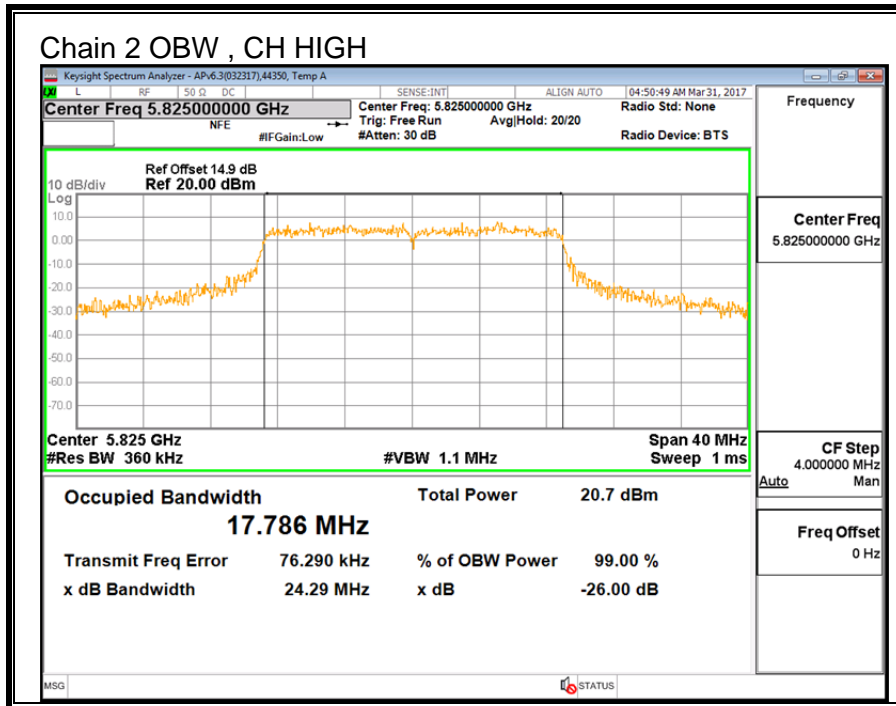
Channel	Frequency	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	5745	17.721	17.823	17.817
Mid	5785	17.854	17.937	17.940
High	5825	17.757	17.721	17.786











9.9.4. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (3)

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST PROCEDURE

Measurements perform using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

DIRECTIONAL ANTENNA GAIN

For Power, the TX chains are uncorrelated and the antenna gain is unequal among the chains. The directional gain is:

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Uncorrelated Chains Directional Gain (dBi)
3.41	2.26	4.22	3.37

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

Chain 0 Antenna Gain (dBi)	Chain 1 Antenna Gain (dBi)	Chain 2 Antenna Gain (dBi)	Correlated Chains Directional Gain (dBi)
3.41	2.26	4.22	8.10

RESULTS

ID:	GE43574	Date:	5/16/17
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Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5745	3.37	8.10	30.00	27.90
Mid	5785	3.37	8.10	30.00	27.90
High	5825	3.37	8.10	30.00	27.90

Duty Cycle CF (dB)	0.37	Included in Calculations of Corr'd PSD
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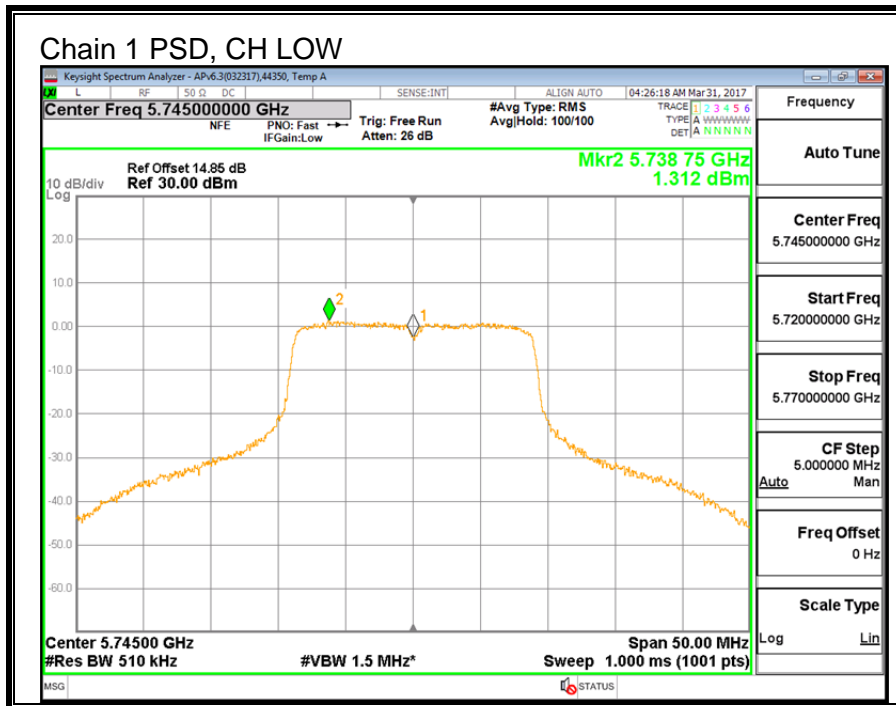
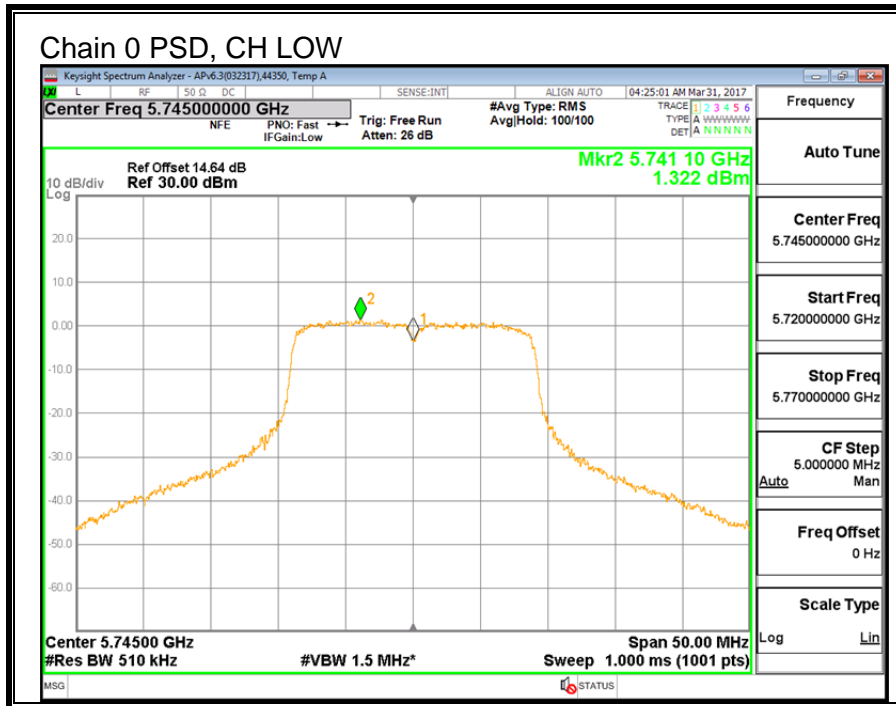
Output Power Results

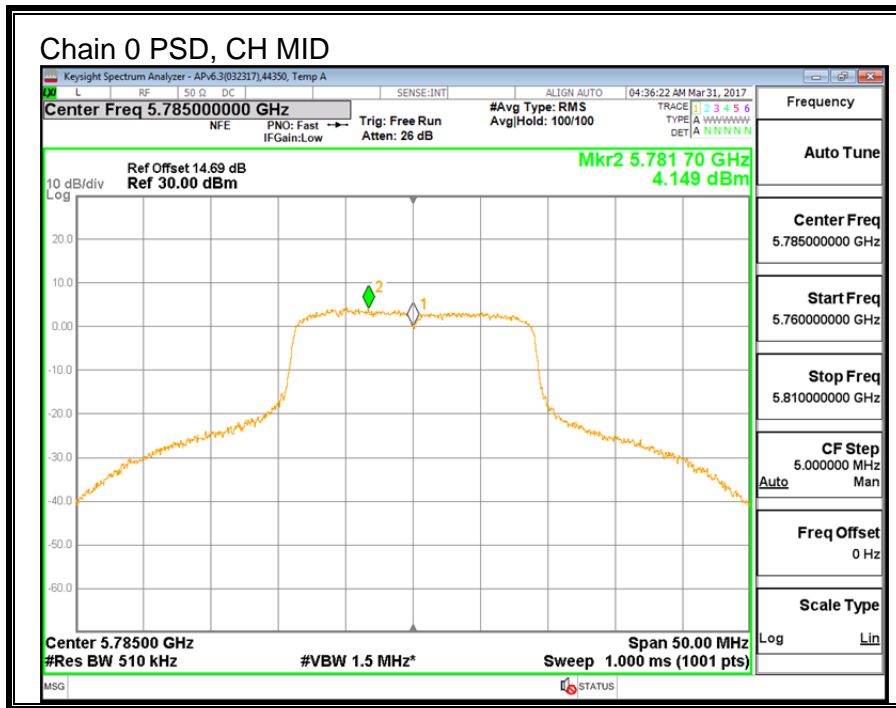
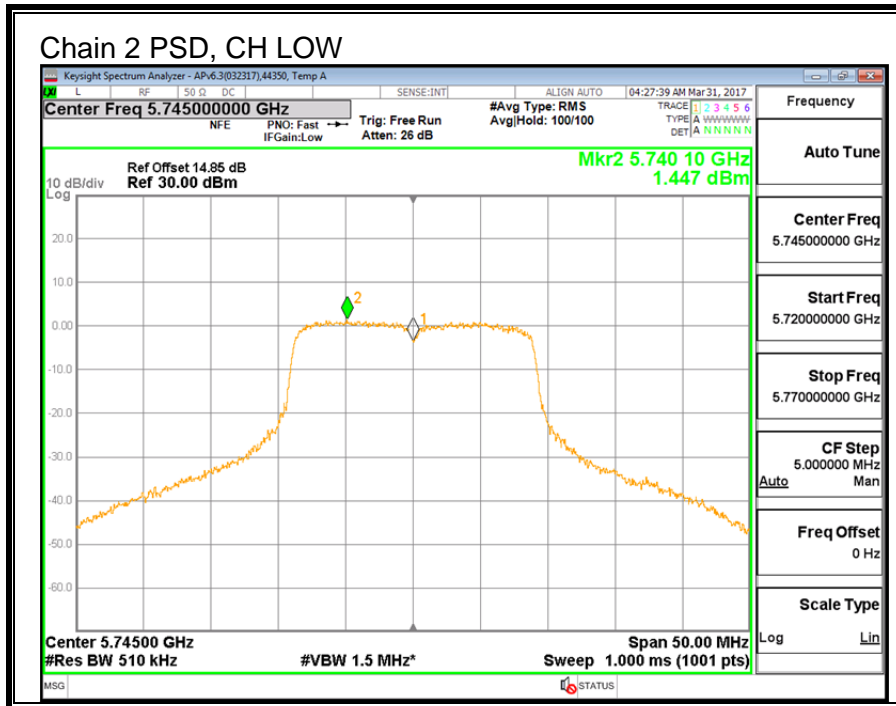
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	14.81	15.11	14.26	19.51	30.00	-10.49
Mid	5785	17.17	17.20	17.15	21.94	30.00	-8.06
High	5825	15.66	15.74	15.20	20.31	30.00	-9.69

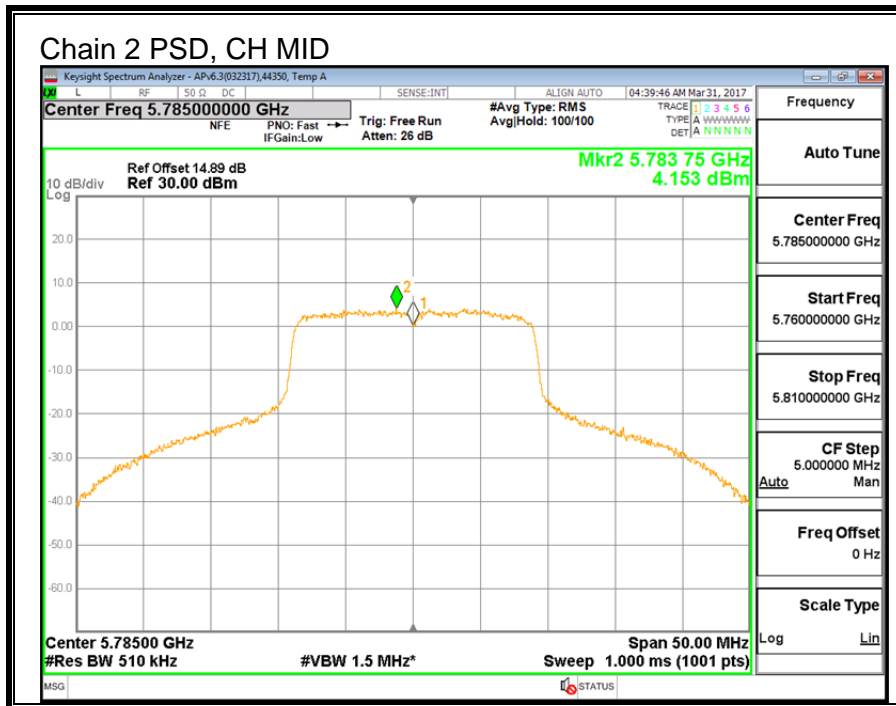
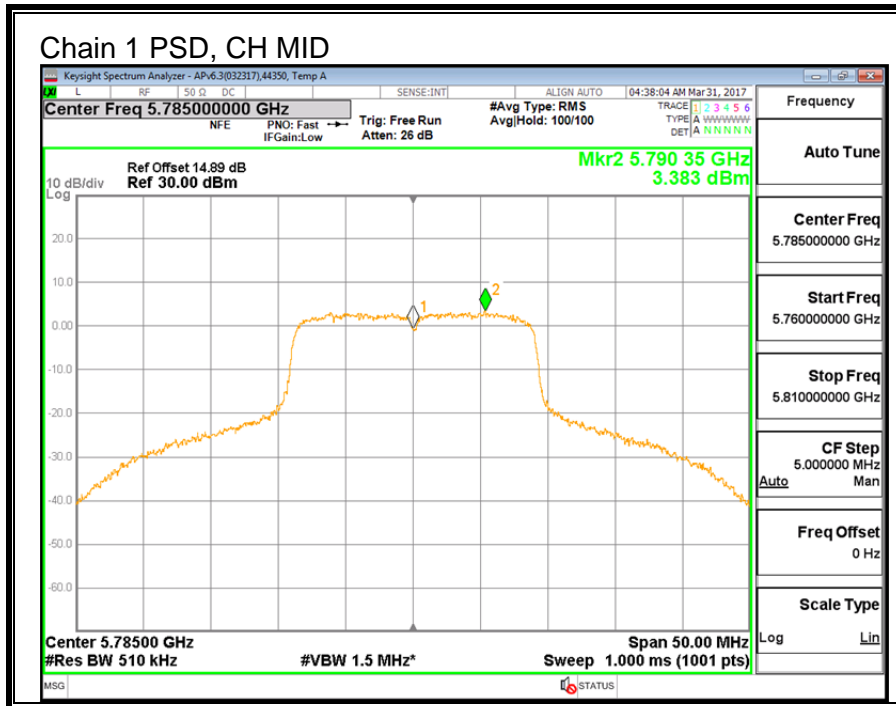
PSD Results

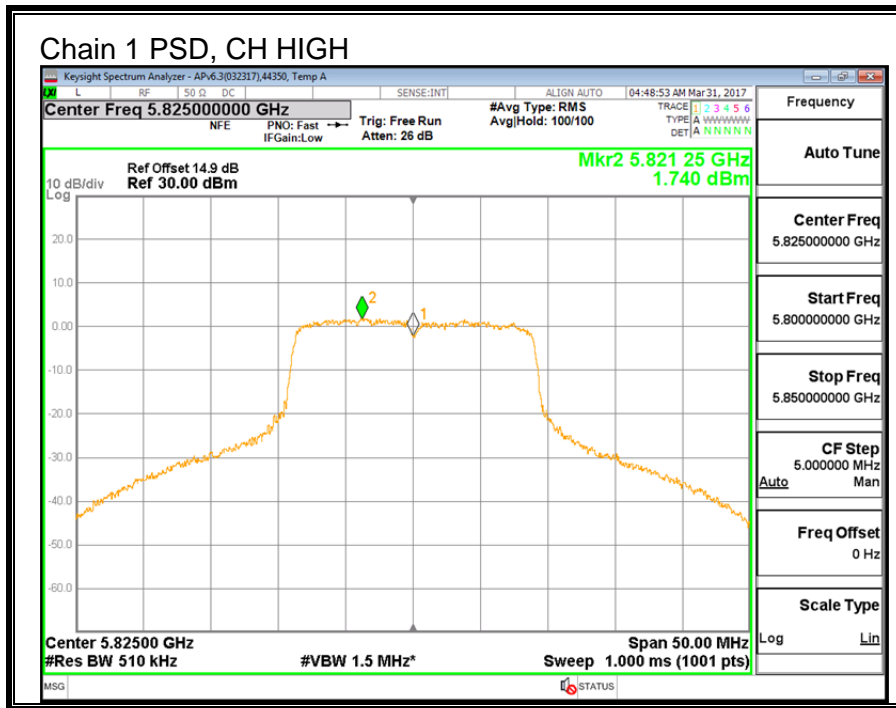
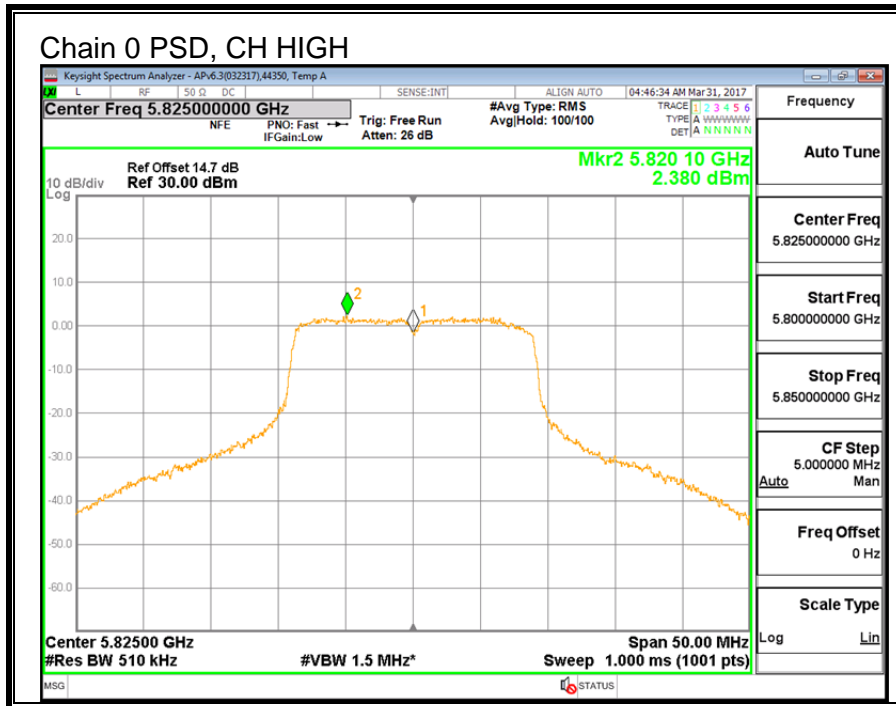
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5745	1.322	1.312	1.447	6.50	27.90	-21.40
Mid	5785	4.149	3.383	4.153	9.05	27.90	-18.85
High	5825	2.380	1.740	2.140	7.24	27.90	-20.66

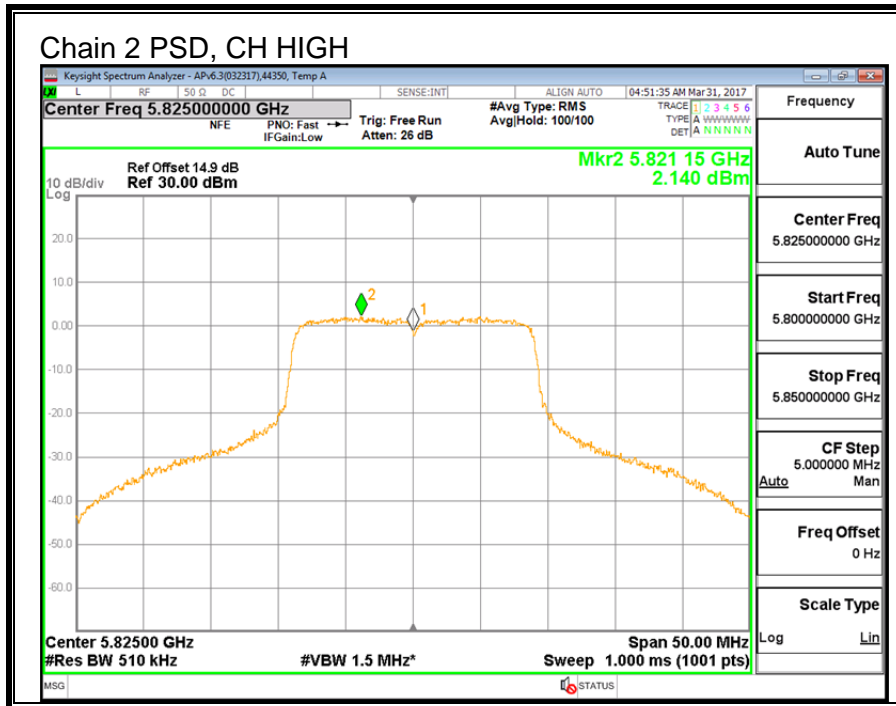
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.











10. RADIATED TEST RESULTS

10.1. LIMITS AND PROCEDURE

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
0.009-0.490	2400/F(kHz) @ 300 m	-
0.490-1.705	24000/F(kHz) @ 30 m	-
1.705 - 30	30 @ 30m	-
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

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

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

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 as applicable for average measurements.

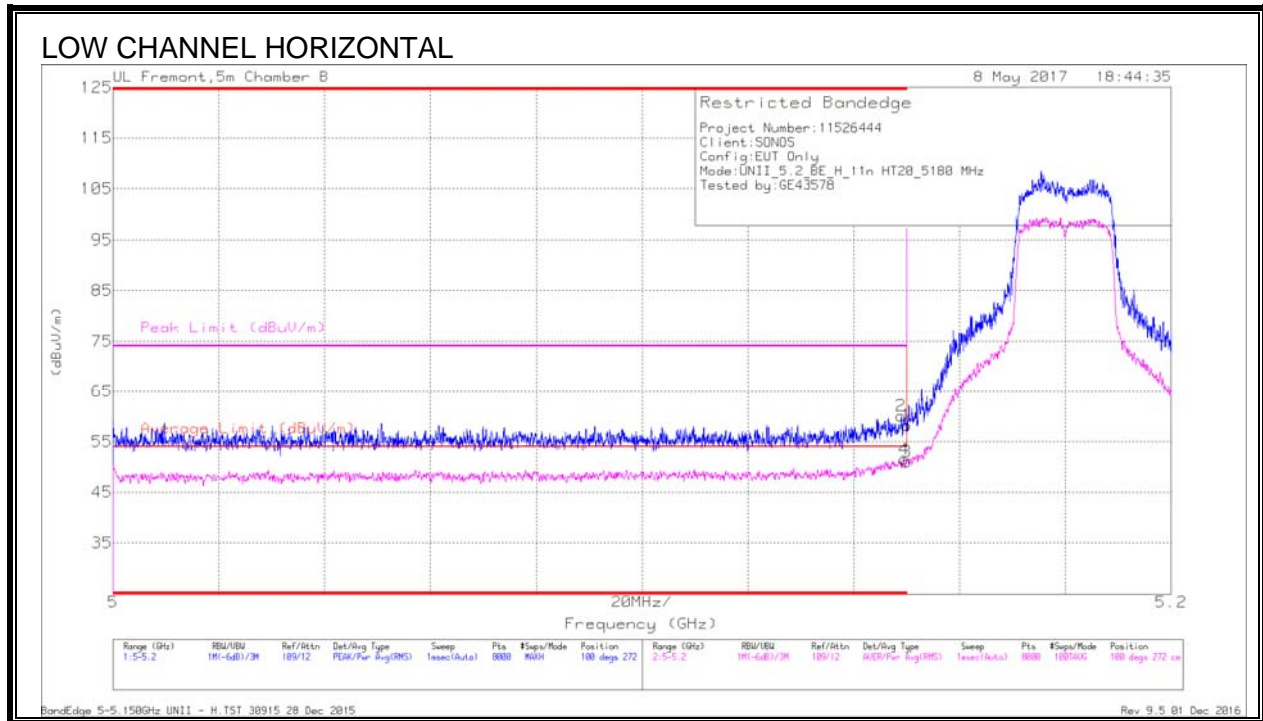
The spectrum from 1 GHz to 18 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band. Below 1GHz and above 18GHz emissions, the channel with the highest output power was tested.

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.

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

10.1.1. 11n HT20 2TX CDD MIMO MODE IN THE 5.2GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



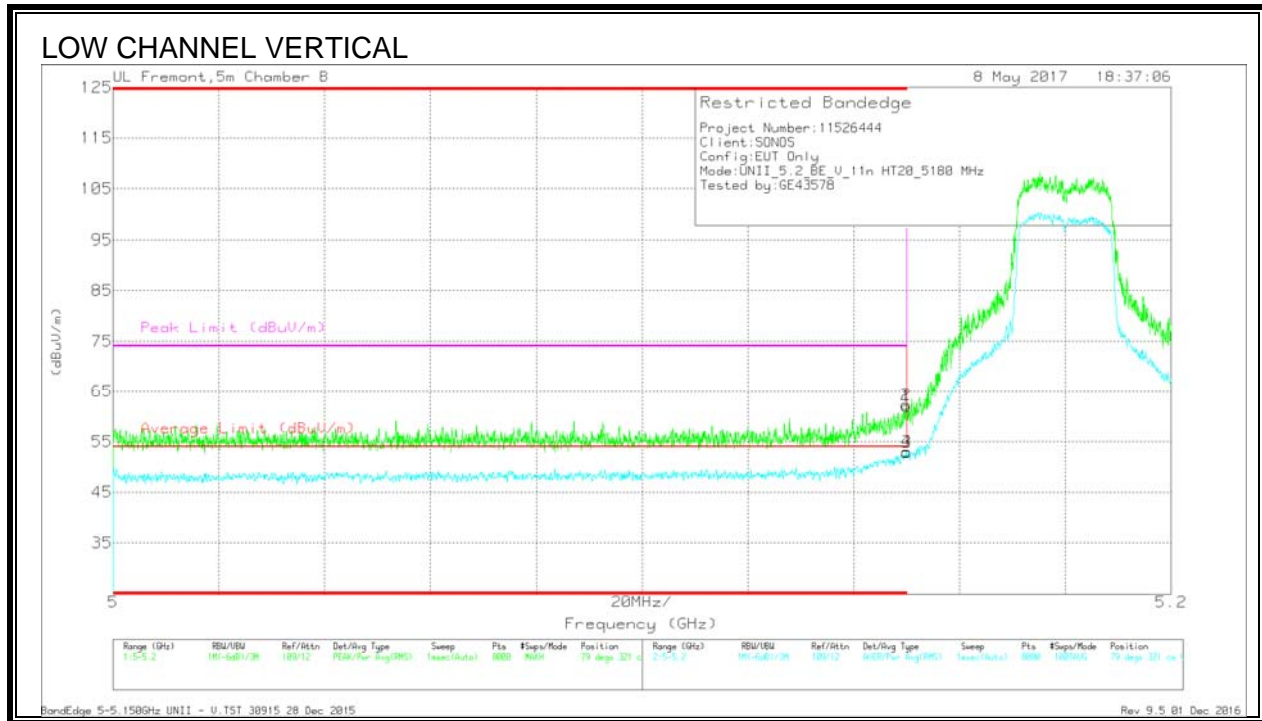
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Cb/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	41.57	Pk	34.8	-18.1	0	58.27	-	-	74	-15.73	100	272	H
2	* 5.149	43.4	Pk	34.8	-18.1	0	60.1	-	-	74	-13.9	100	272	H
3	* 5.15	33.95	RMS	34.8	-18.1	.37	51.02	54	-2.98	-	-	100	272	H
4	* 5.149	34.46	RMS	34.8	-18.1	.37	51.53	54	-2.47	-	-	100	272	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

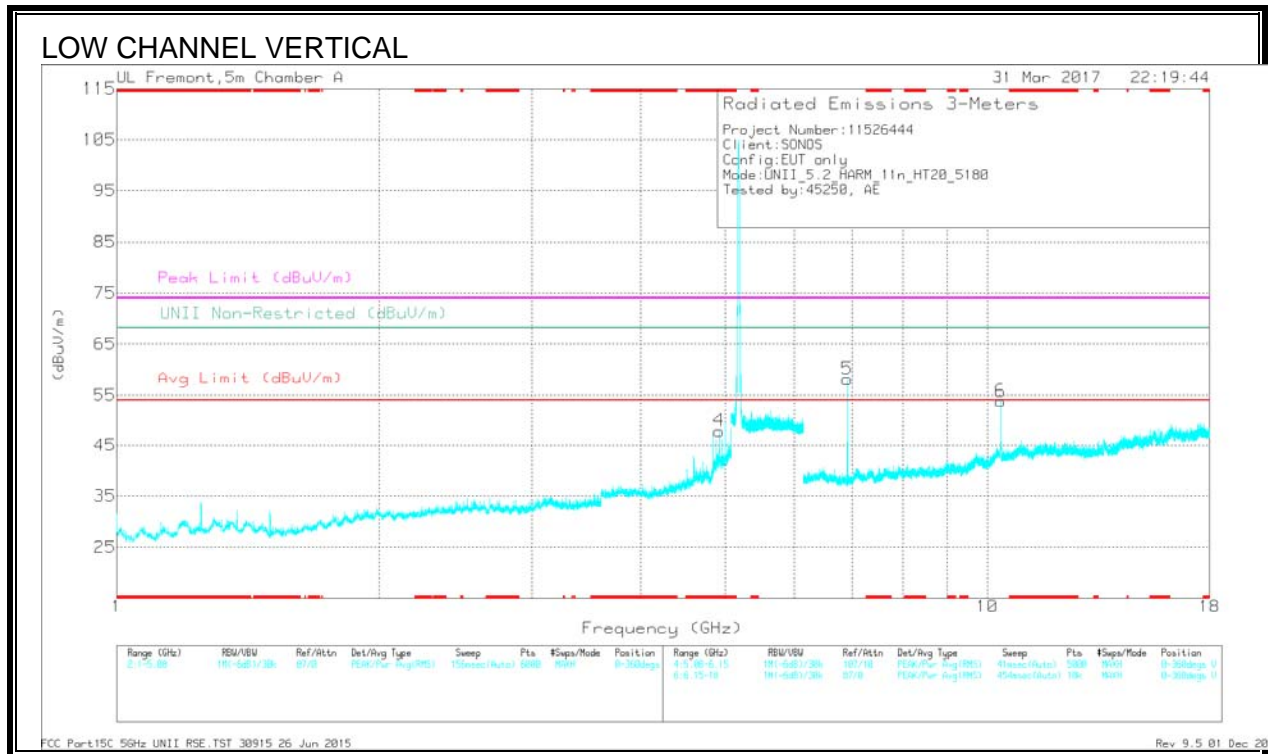
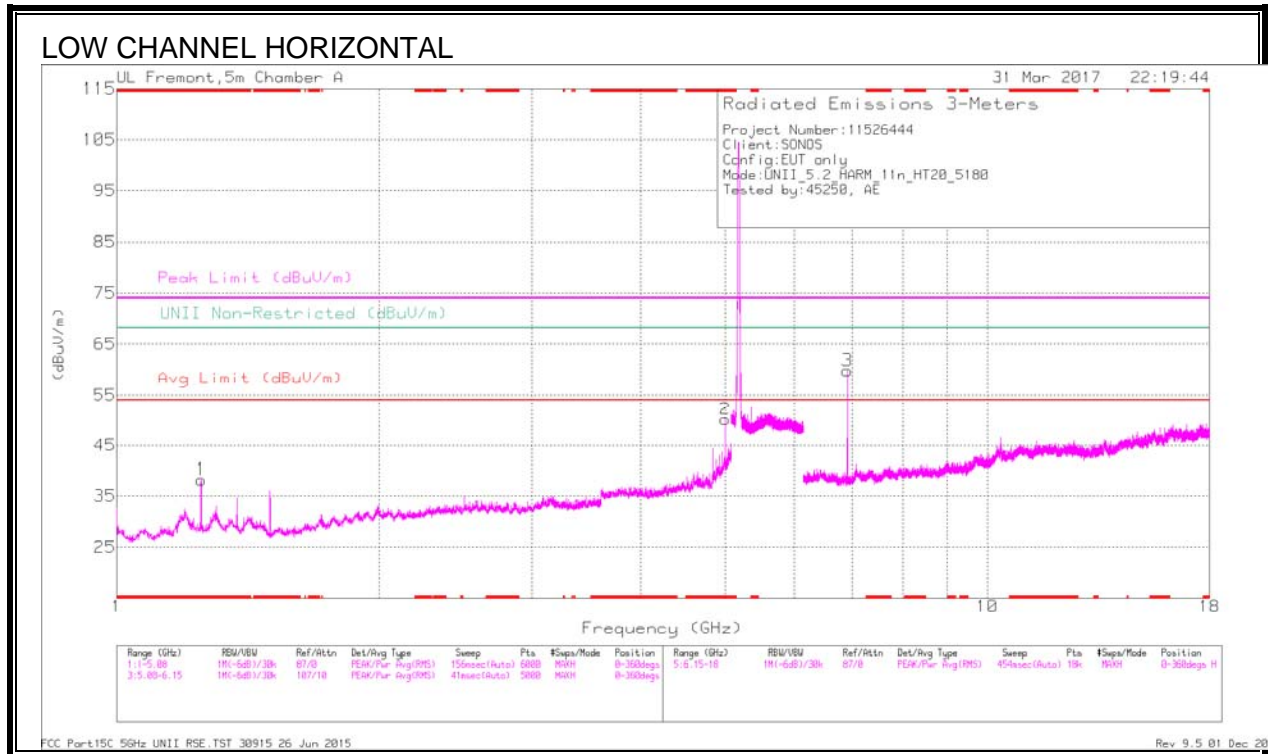
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	45.21	Pk	34.8	-18.1	0	61.91	-	-	74	-12.09	79	321	V
2	* 5.15	45.67	Pk	34.8	-18.1	0	62.37	-	-	74	-11.63	79	321	V
3	* 5.15	35.81	RMS	34.8	-18.1	.37	52.88	54	-1.12	-	-	79	321	V
4	* 5.15	35.92	RMS	34.8	-18.1	.37	52.99	54	-1.01	-	-	79	321	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

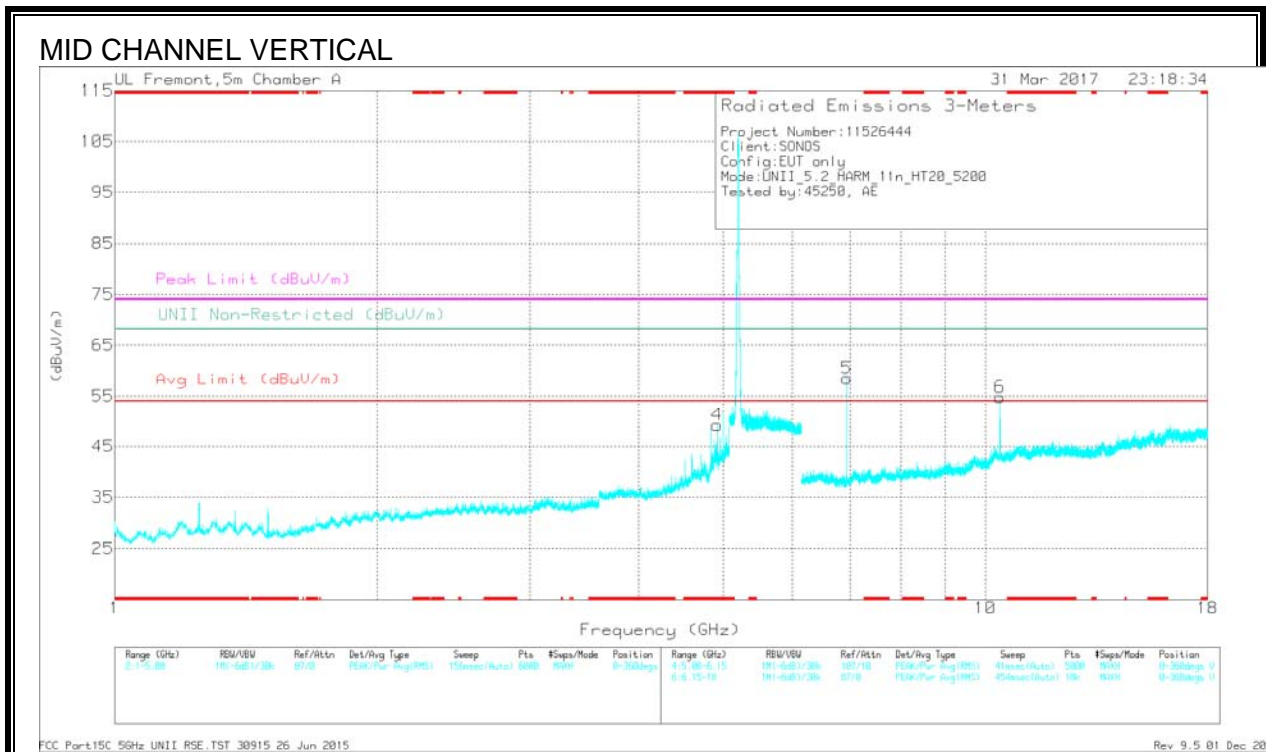
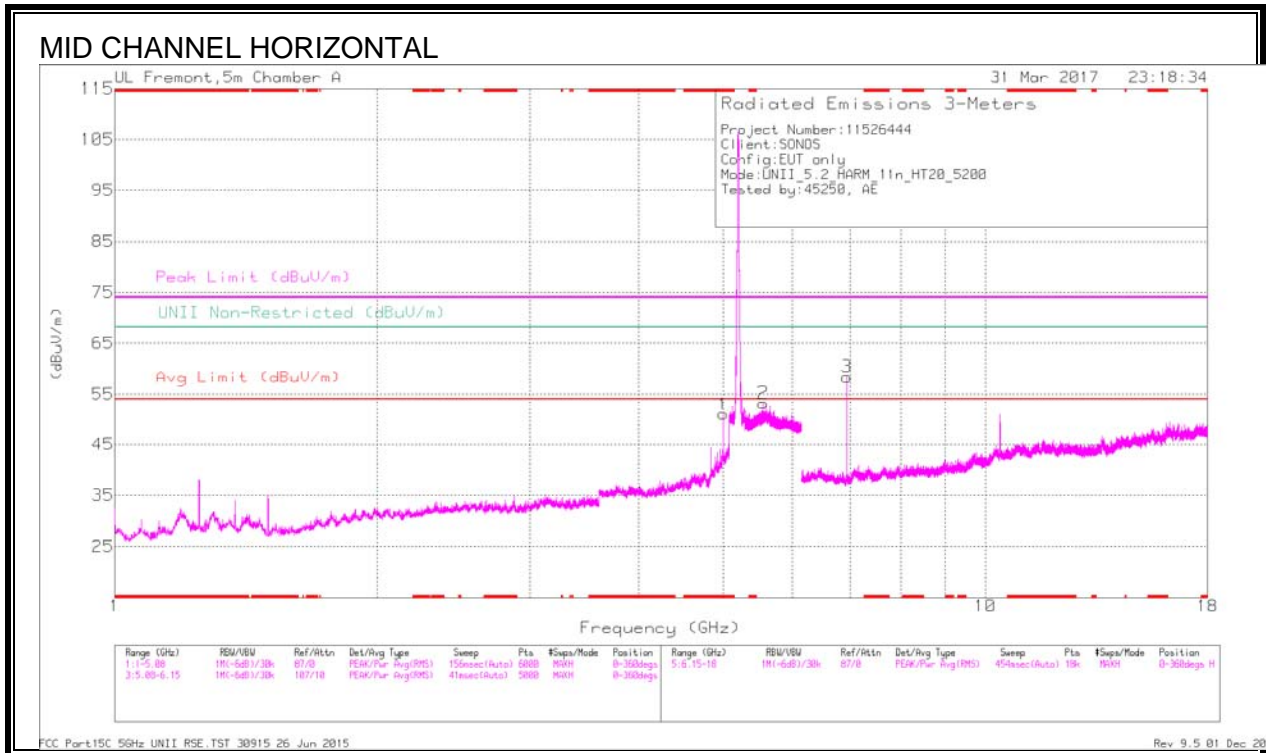
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/CM/Hz/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.25	43.42	Pk	29.1	-34.3	0	38.22	-	-	74	-35.78	-	-	0-360	101	H
4	* 4.92	41.32	Pk	34.1	-27.6	0	47.82	-	-	74	-26.18	-	-	0-360	200	V
2	* 5	43.53	Pk	34.1	-27.5	0	50.13	-	-	74	-23.87	-	-	0-360	101	H
6	10.36	36.9	Pk	37.4	-20.5	0	53.8	-	-	-	-	68.2	-14.4	0-360	200	V
3	6.906	49.9	Pk	35.5	-25.6	0	59.8	-	-	-	-	68.2	-8.4	0-360	199	H
5	6.906	48.25	Pk	35.5	-25.6	0	58.15	-	-	-	-	68.2	-10.05	0-360	200	V

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

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/CM/Hz/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
* 1.25	48.02	PK-U	29.1	-34.3	0	42.82	-	-	74	-31.18	-	-	269	102	H
* 1.25	42.3	ADR	29.1	-34.3	.37	37.47	54	-16.53	-	-	-	-	269	102	H
* 5	48.29	PK-U	34.1	-27.5	0	54.89	-	-	74	-19.11	-	-	150	107	H
* 5	40.95	ADR	34.1	-27.5	.37	47.92	54	-6.08	-	-	-	-	150	107	H
* 4.92	47.11	PK-U	34.1	-27.6	0	53.61	-	-	74	-20.39	-	-	209	196	V
* 4.92	39.11	ADR	34.1	-27.6	.37	45.98	54	-8.02	-	-	-	-	209	196	V
6.907	49.92	PK-U	35.5	-25.6	0	59.82	-	-	-	-	68.2	-8.38	139	309	H
6.907	49.96	PK-U	35.5	-25.6	0	59.86	-	-	-	-	68.2	-8.34	19	112	V
10.36	41.39	PK-U	37.4	-20.5	0	58.29	-	-	-	-	68.2	-9.91	81	136	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



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/CM/Hz/Psd (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5	44.34	Pk	34.1	-27.5	0	50.94	-	-	74	-23.06	-	-	0-360	101	H
4	* 4.92	42.67	Pk	34.1	-27.6	0	49.17	-	-	74	-24.83	-	-	0-360	200	V
2	5.558	37.69	Pk	34.6	-19.1	0	53.19	-	-	-	-	68.2	-15.01	0-360	101	H
3	6.933	48.6	Pk	35.4	-25.6	0	58.4	-	-	-	-	68.2	-9.8	0-360	199	H
5	6.933	48.67	Pk	35.4	-25.6	0	58.47	-	-	-	-	68.2	-9.73	0-360	200	V
6	10.4	38.07	Pk	37.5	-20.8	0	54.77	-	-	-	-	68.2	-13.43	0-360	200	V

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

Pk - Peak detector

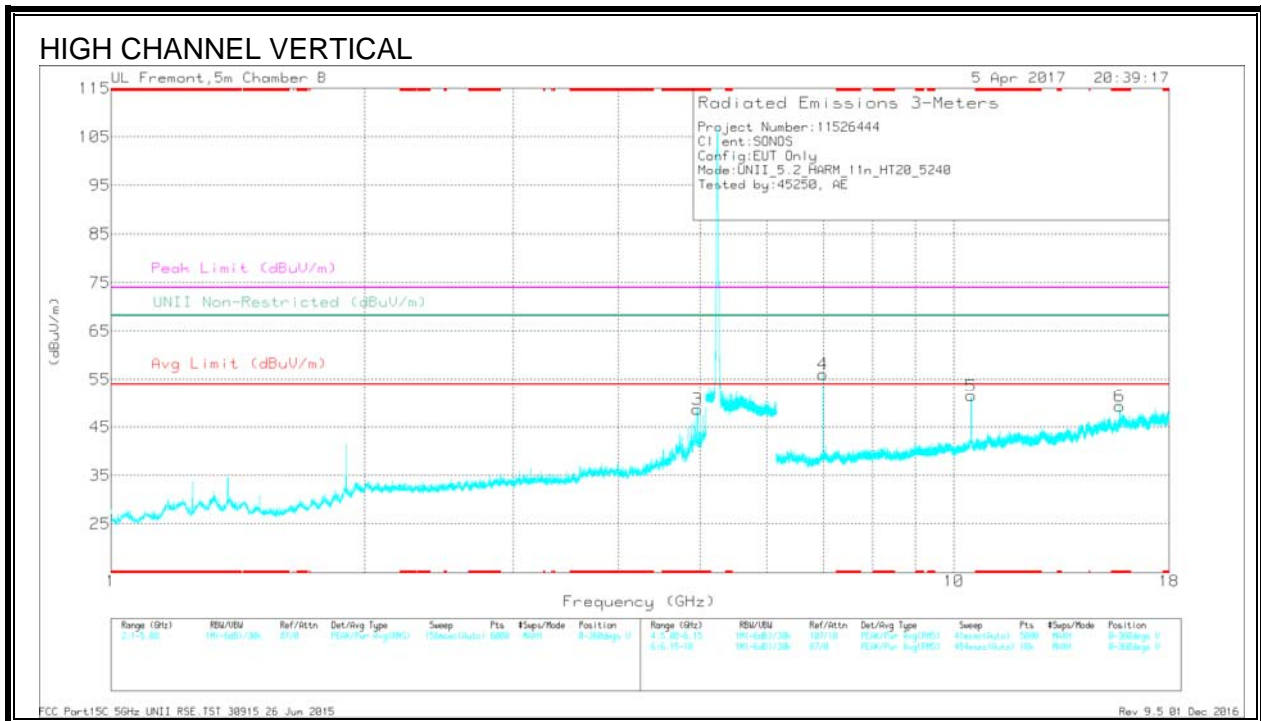
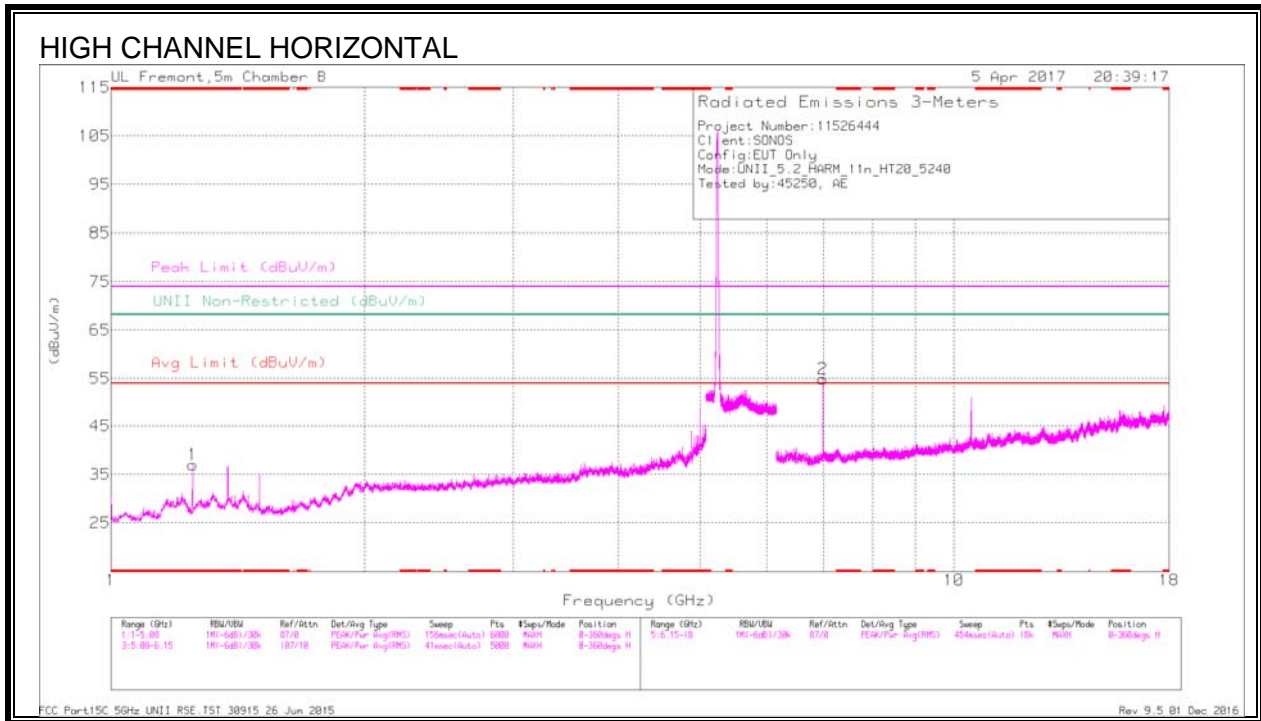
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/CM/Hz/Psd (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	49.49	PK-U	34.1	-27.5	0	56.09	-	-	74	-17.91	-	-	138	102	H
* 5	42.04	ADR	34.1	-27.5	.37	49.01	54	-4.99	-	-	-	-	138	102	H
* 4.92	48.3	PK-U	34.1	-27.6	0	54.8	-	-	74	-19.2	-	-	210	194	V
* 4.92	40.66	ADR	34.1	-27.6	.37	47.53	54	-6.47	-	-	-	-	210	194	V
5.559	43.01	PK-U	34.6	-19.1	0	58.51	-	-	-	-	68.2	-9.69	146	168	H
6.933	50.06	PK-U	35.4	-25.6	0	59.86	-	-	-	-	68.2	-8.34	125	270	H
6.933	49.72	PK-U	35.4	-25.6	0	59.52	-	-	-	-	68.2	-8.68	17	213	V
10.4	44.78	PK-U	37.5	-20.8	0	61.48	-	-	-	-	68.2	-6.72	80	262	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



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF F346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Agc Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Deps)	Height (cm)	Polarity
1	* 1.25	42.98	Pk	28.4	-34.4	0	36.98	-	-	74	-37.02	-	-	0-360	199	H
3	* 4.96	42.84	Pk	34.5	-28.7	0	48.64	-	-	74	-25.36	-	-	0-360	199	V
6	* 15.723	29.23	Pk	41.7	-21.6	0	49.33	-	-	74	-24.67	-	-	0-360	102	V
2	6.987	46.25	Pk	36.1	-27.4	0	54.95	-	-	-	-	68.2	-13.25	0-360	199	H
4	6.987	47.38	Pk	36.1	-27.4	0	56.08	-	-	-	-	68.2	-12.12	0-360	199	V
5	10.479	36.97	Pk	37.9	-23.3	0	51.57	-	-	-	-	68.2	-16.63	0-360	102	V

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

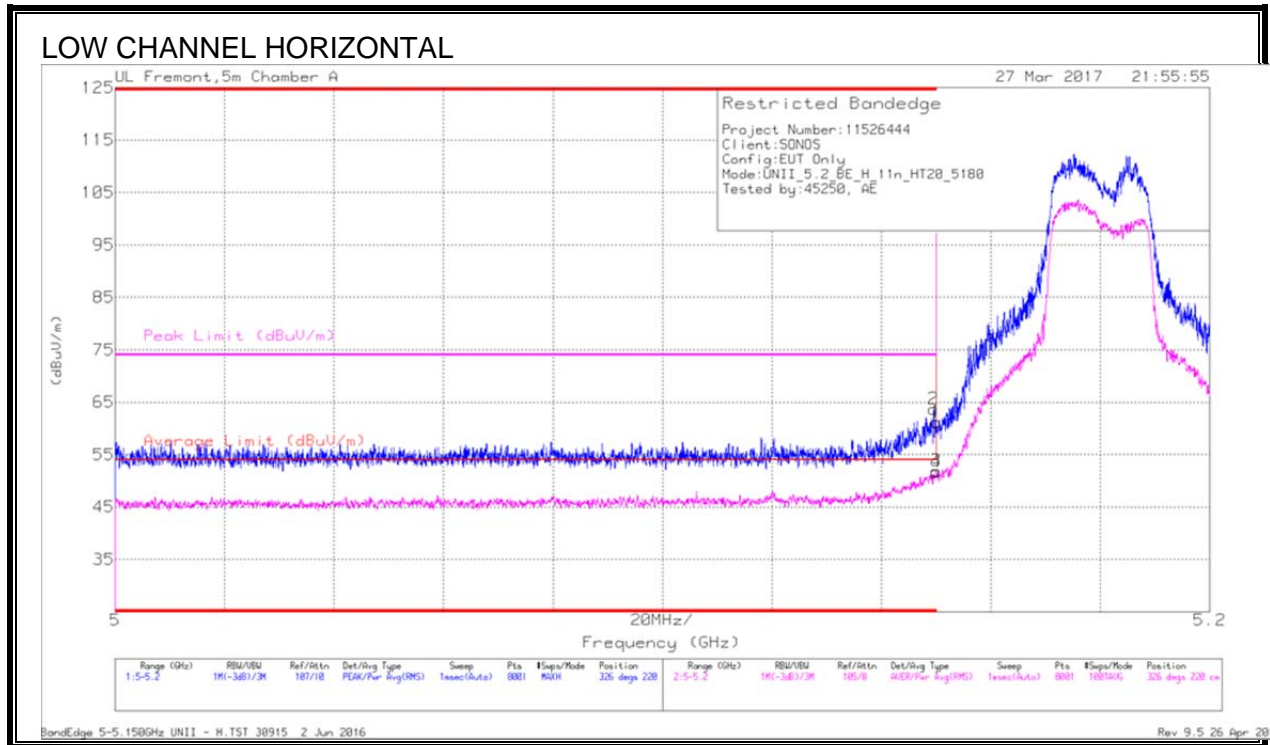
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF F346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Agc Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Deps)	Height (cm)	Polarity
* 1.25	47.22	PK-U	28.4	-34.4	0	41.22	-	-	74	-32.78	-	-	105	128	H
* 1.25	41.48	ADR	28.4	-34.4	-37	35.85	54	-18.15	-	-	-	-	105	128	H
* 4.96	44.86	PK-U	34.5	-28.7	0	50.66	-	-	74	-23.34	-	-	108	171	V
* 4.96	33.26	ADR	34.5	-28.7	-37	39.43	54	-14.57	-	-	-	-	108	171	V
* 15.722	34.95	PK-U	41.7	-21.6	0	55.05	-	-	74	-18.95	-	-	313	110	V
* 15.722	22.96	ADR	41.7	-21.6	-66	43.43	54	-10.57	-	-	-	-	313	110	V
6.987	48.9	PK-U	36.1	-27.4	0	57.6	-	-	-	-	68.2	-10.6	19	281	H
6.987	49.49	PK-U	36.1	-27.4	0	58.19	-	-	-	-	68.2	-10.01	273	204	V
10.48	43.4	PK-U	37.9	-23.3	0	58	-	-	-	-	68.2	-10.2	281	108	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

10.1.2. 11n HT20 3TX CDD MIMO MODE IN THE 5.2GHZ BAND

RESTRICTED BANDEDGE (LOW CHANNEL)



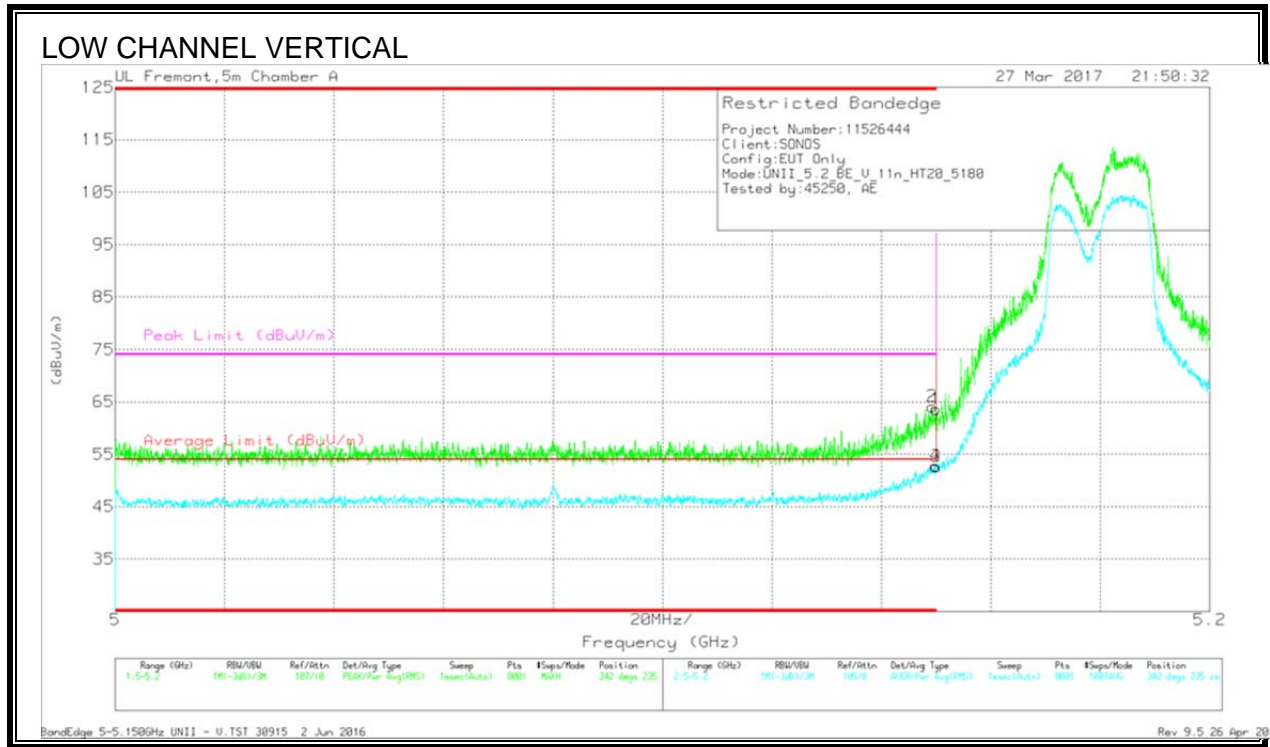
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Chl/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
2	* 5.15	48.19	Pk	34.1	-18.6	0	63.69	-	-	74	-10.31	326	220	H
4	* 5.15	35.94	RMS	34.1	-18.7	.37	51.71	54	-2.29	-	-	326	220	H
1	5.15	45.78	Pk	34.1	-18.7	0	61.18	-	-	74	-12.82	326	220	H
3	5.15	36.11	RMS	34.1	-18.7	.37	51.88	54	-2.12	-	-	326	220	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

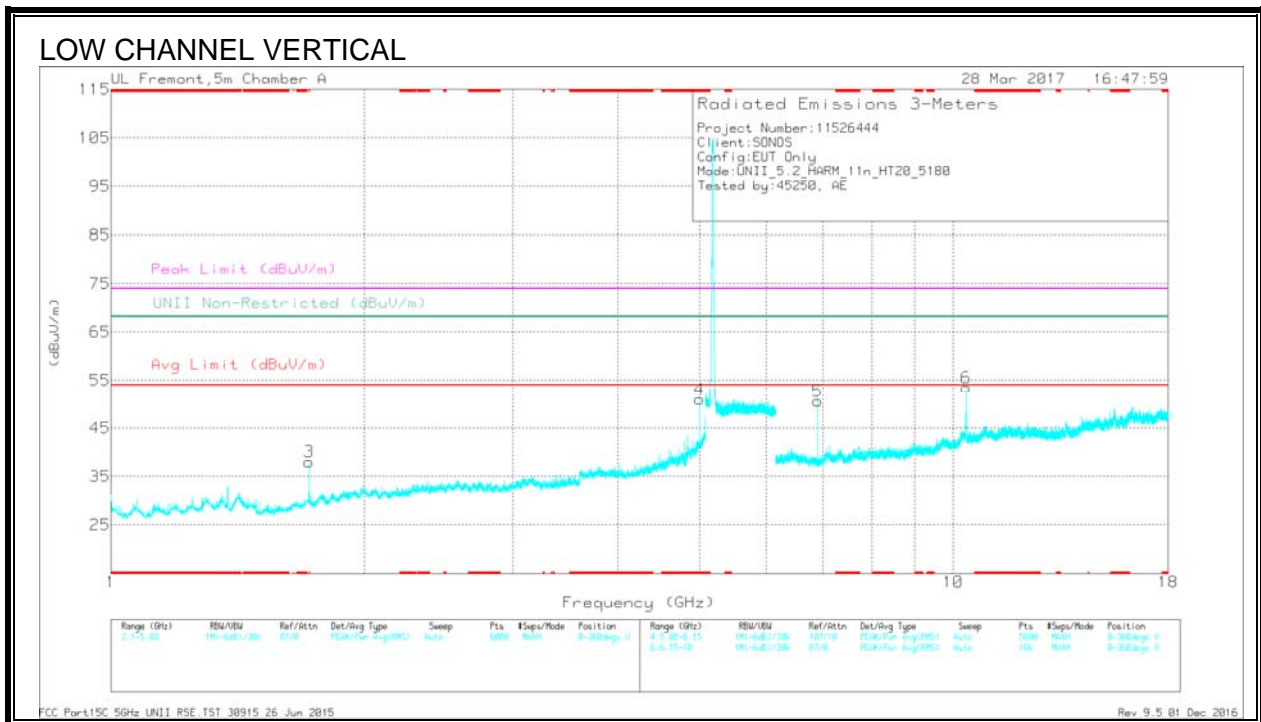
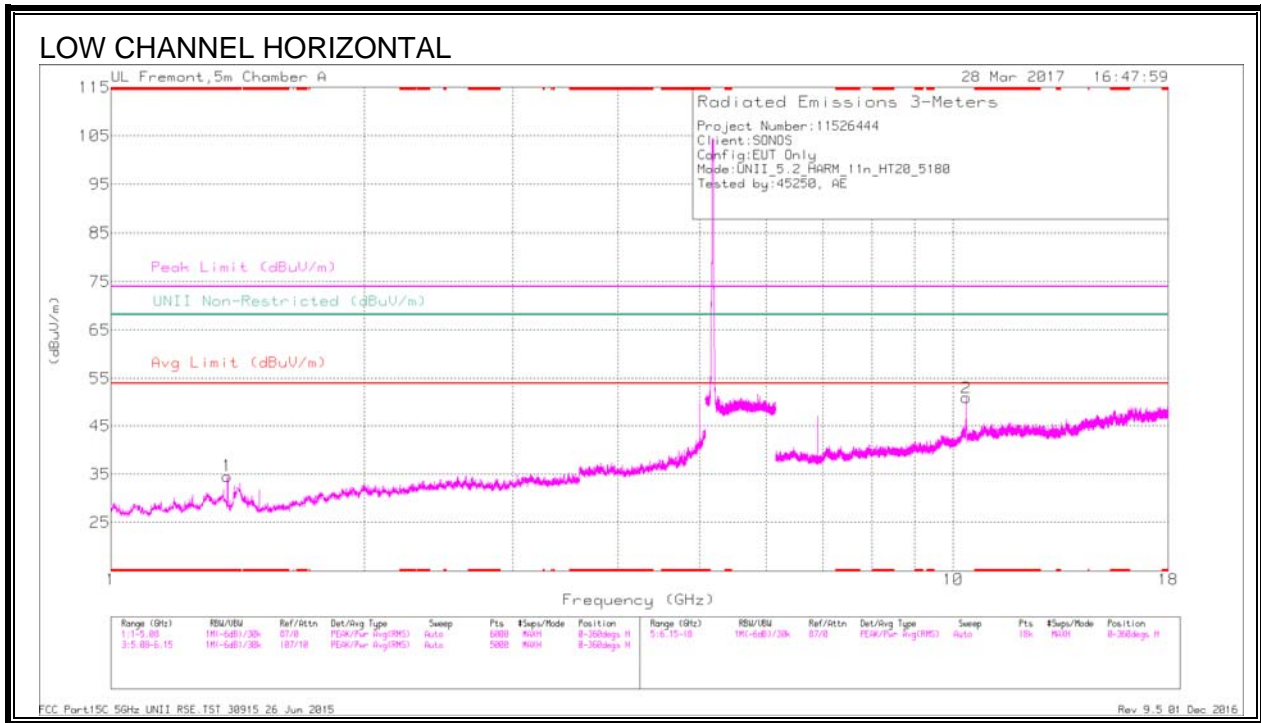
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	48.54	Pk	34.1	-18.6	0	64.04	-	-	74	-9.96	342	235	V
4	* 5.15	37.06	RMS	34.1	-18.7	.37	52.83	54	-1.17	-	-	342	235	V
1	5.15	48.16	Pk	34.1	-18.7	0	63.56	-	-	74	-10.44	342	235	V
3	5.15	36.89	RMS	34.1	-18.7	.37	52.66	54	-1.34	-	-	342	235	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Chi/Filt/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)	Altitude (Degs)	Height (cm)	Polarity
1	* 1.375	33.7	PK	29.3	-33.4	0	34.6	-	-	74	-39.4	-	-	0-360	101	H
4	* 5	44.38	PK	34.1	-27.5	0	50.98	-	-	74	-23.02	-	-	0-360	101	V
3	1.718	41.51	PK	29.4	-32.9	0	38.01	-	-	-	-	68.2	-30.19	0-360	200	V
5	6.906	40.71	PK	35.5	-25.6	0	50.61	-	-	-	-	68.2	-17.59	0-360	200	V
2	10.36	33.95	PK	37.4	-20.5	0	50.85	-	-	-	-	68.2	-17.35	0-360	199	H
6	10.36	36.6	PK	37.4	-20.5	0	53.5	-	-	-	-	68.2	-14.7	0-360	101	V

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

PK - Peak detector

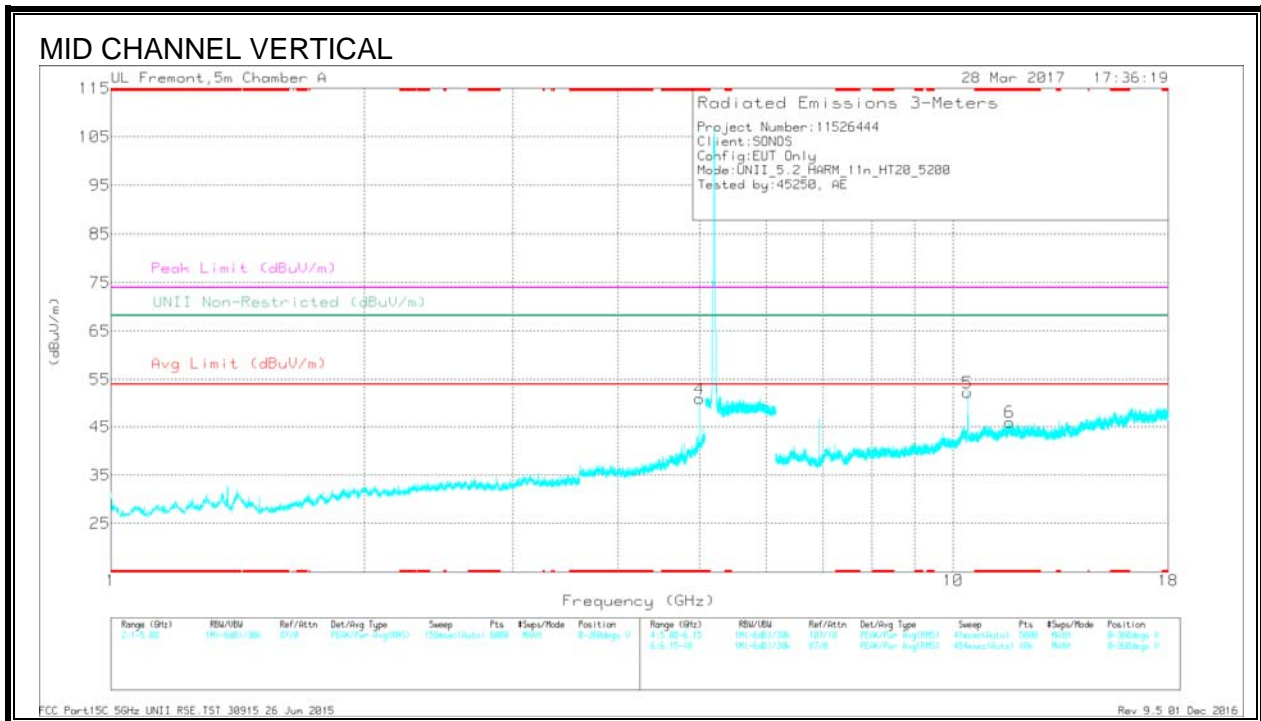
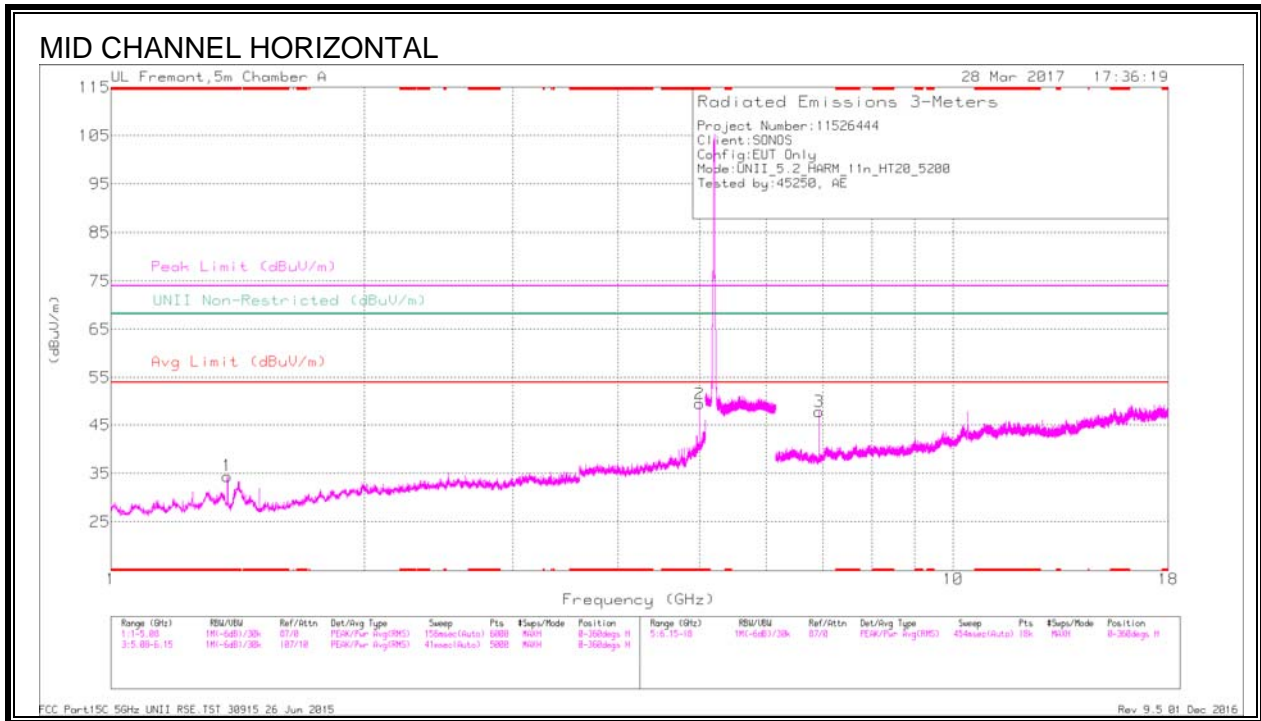
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Chi/Filt/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)	Altitude (Degs)	Height (cm)	Polarity
* 1.375	44.21	PK-U	29.3	-33.4	0	40.11	-	-	74	-33.89	-	-	268	179	H
* 1.375	37.96	ADR	29.3	-33.4	.37	34.23	54	-19.77	-	-	-	-	268	179	H
* 5	50.81	PK-U	34.1	-27.5	0	57.41	-	-	74	-16.59	-	-	249	227	V
* 5	45.68	ADR	34.1	-27.5	.37	52.65	54	-1.35	-	-	-	-	249	227	V
1.718	40.9	PK-U	29.5	-32.9	0	37.5	-	-	-	-	68.2	-30.7	52	228	V
6.907	43.36	PK-U	35.5	-25.6	0	53.26	-	-	-	-	68.2	-14.94	328	203	V
10.36	38.89	PK-U	37.4	-20.5	0	55.79	-	-	-	-	68.2	-12.41	7	216	H
10.36	42.47	PK-U	37.4	-20.5	0	59.37	-	-	-	-	68.2	-8.83	3	101	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



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBW)	Det	AF 1711 (dB/m)	Amp/Cal/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)	Altitude (Degs)	Height (cm)	Polarity
1	* 1.375	38.57	PK	29.3	-33.4	0	34.47	-	-	74	-39.53	-	-	0-360	199	H
2	* 5	42.92	PK	34.1	-27.5	0	49.52	-	-	74	-24.48	-	-	0-360	199	H
4	* 5	44.26	PK	34.1	-27.5	0	50.86	-	-	74	-23.14	-	-	0-360	101	V
6	* 11.665	27.13	PK	38.2	-19.4	0	45.93	-	-	74	-28.07	-	-	0-360	101	V
3	6.933	37.94	PK	35.4	-25.6	0	47.74	-	-	-	-	68.2	-20.46	0-360	199	H
5	10.4	35.44	PK	37.5	-20.8	0	52.14	-	-	-	-	68.2	-16.06	0-360	101	V

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

Pk - Peak detector

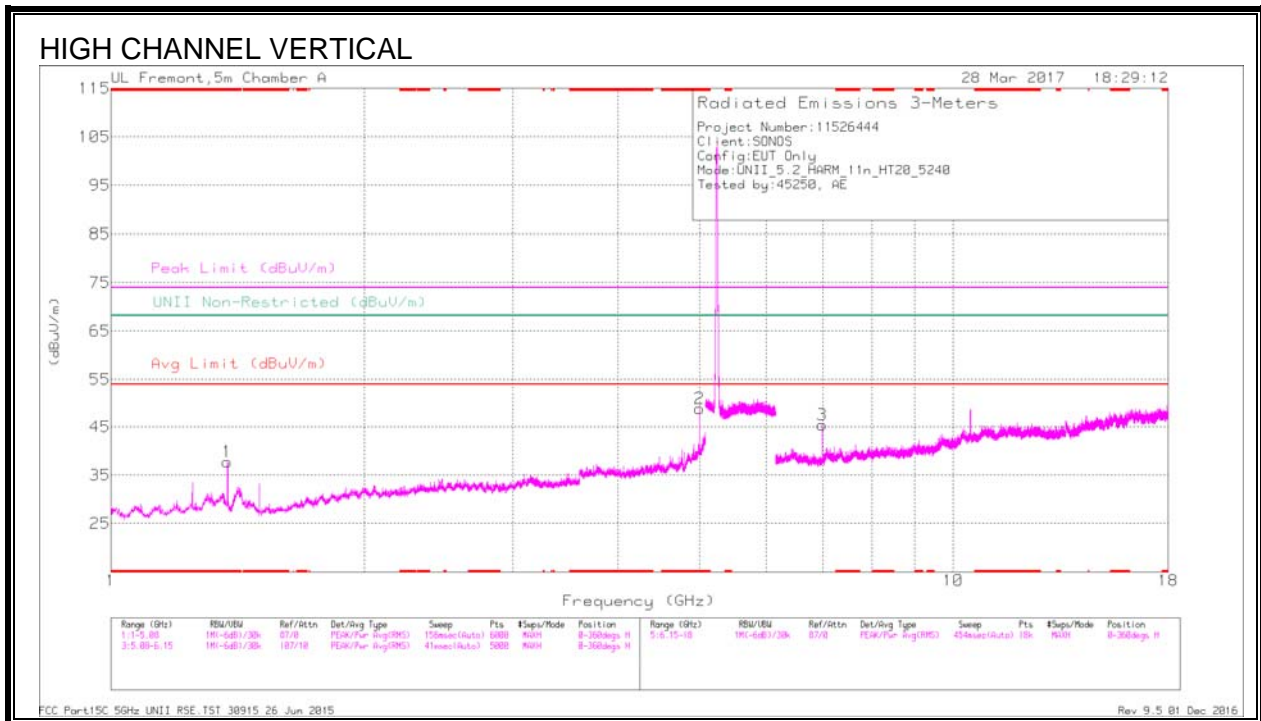
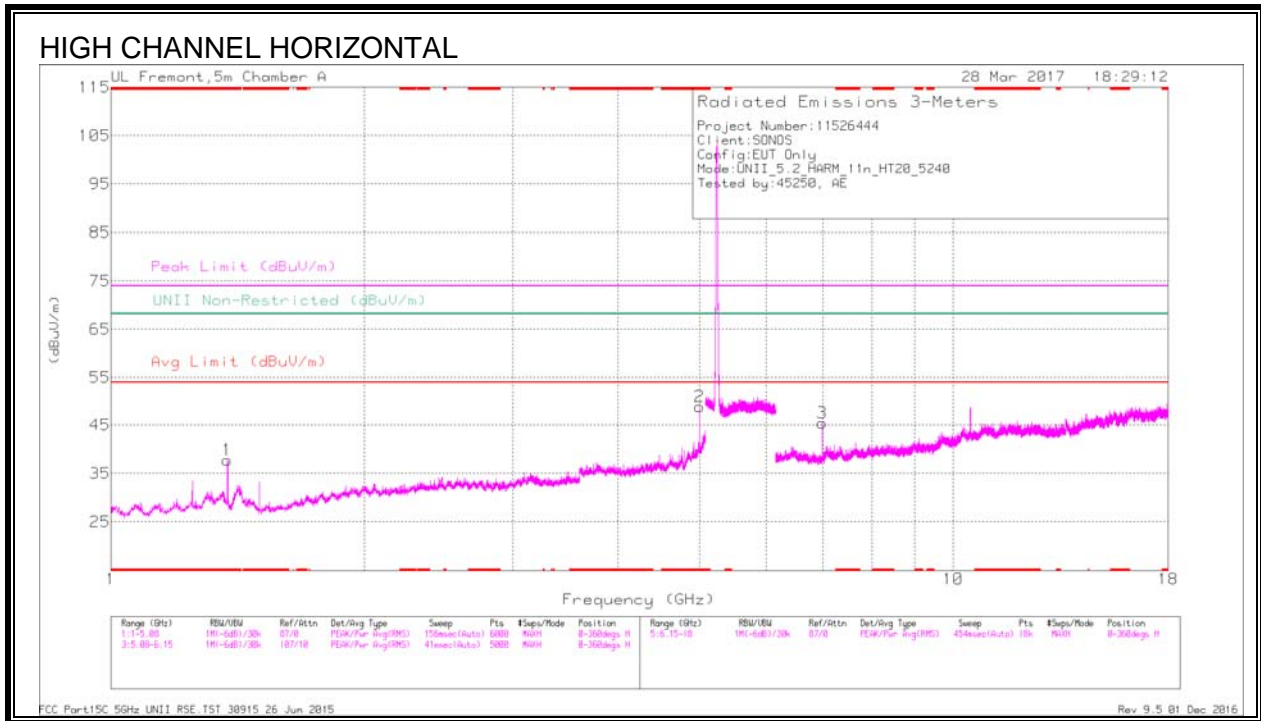
Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF 1711 (dB/m)	Amp/Cal/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)	Altitude (Degs)	Height (cm)	Polarity
* 1.375	43.76	PK-U	29.3	-33.4	0	39.66	-	-	74	-34.34	-	-	268	226	H
* 1.375	36.03	ADR	29.3	-33.4	-37	32.3	54	-21.7	-	-	-	-	268	226	H
* 5	47.77	PK-U	34.1	-27.5	0	54.37	-	-	74	-19.63	-	-	150	232	H
* 5	40.61	ADR	34.1	-27.5	-37	47.58	54	-6.42	-	-	-	-	150	232	H
* 5	49.57	PK-U	34.1	-27.5	0	56.17	-	-	74	-17.83	-	-	247	240	V
* 5	43.77	ADR	34.1	-27.5	-37	50.74	54	-3.26	-	-	-	-	247	240	V
* 11.665	33.06	PK-U	38.2	-19.4	0	51.86	-	-	74	-22.14	-	-	0	113	V
* 11.665	21.6	ADR	38.2	-19.4	-37	40.77	54	-13.23	-	-	-	-	0	113	V
6.933	41.14	PK-U	35.4	-25.6	0	50.94	-	-	-	-	68.2	-17.26	140	204	H
10.4	42.46	PK-U	37.5	-20.8	0	59.16	-	-	-	-	68.2	-9.04	4	101	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



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Chi/Filt/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)	Altitude (Degs)	Height (cm)	Polarity
1	* 1.375	41.85	PK	29.3	-33.4	0	37.75	-	-	74	-36.25	-	-	0-360	101	H
2	* 5	42.27	PK	34.1	-27.5	0	48.87	-	-	74	-25.13	-	-	0-360	101	H
4	* 5	42.4	PK	34.1	-27.5	0	49	-	-	74	-25	-	-	0-360	101	V
3	6.987	35.29	PK	35.4	-25.2	0	45.49	-	-	-	-	68.2	-22.71	0-360	101	H
5	10.48	36.1	PK	37.6	-20.8	0	52.9	-	-	-	-	68.2	-15.3	0-360	200	V
6	13.605	28.22	PK	38.8	-20.8	0	46.22	-	-	-	-	68.2	-21.98	0-360	200	V

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

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T711 (dB/m)	Amp/Chi/Filt/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)	Altitude (Degs)	Height (cm)	Polarity
* 1.375	46.41	PK-U	29.3	-33.4	0	42.31	-	-	74	-31.69	-	-	269	174	H
* 1.375	41.35	ADR	29.3	-33.4	.37	37.62	54	-16.38	-	-	-	-	269	174	H
* 5	46.36	PK-U	34.1	-27.5	0	52.96	-	-	74	-21.04	-	-	116	104	H
* 5	39.44	ADR	34.1	-27.5	.37	46.41	54	-7.59	-	-	-	-	116	104	H
* 5	47.19	PK-U	34.1	-27.5	0	53.79	-	-	74	-20.21	-	-	246	242	V
* 5	41.05	ADR	34.1	-27.5	.37	48.02	54	-5.98	-	-	-	-	246	242	V
6.987	39.49	PK-U	35.4	-25.2	0	49.69	-	-	-	-	68.2	-18.51	136	295	H
10.48	40.04	PK-U	37.6	-20.8	0	56.84	-	-	-	-	68.2	-11.36	179	148	V
13.605	34.1	PK-U	38.8	-20.8	0	52.1	-	-	-	-	68.2	-16.1	78	168	V

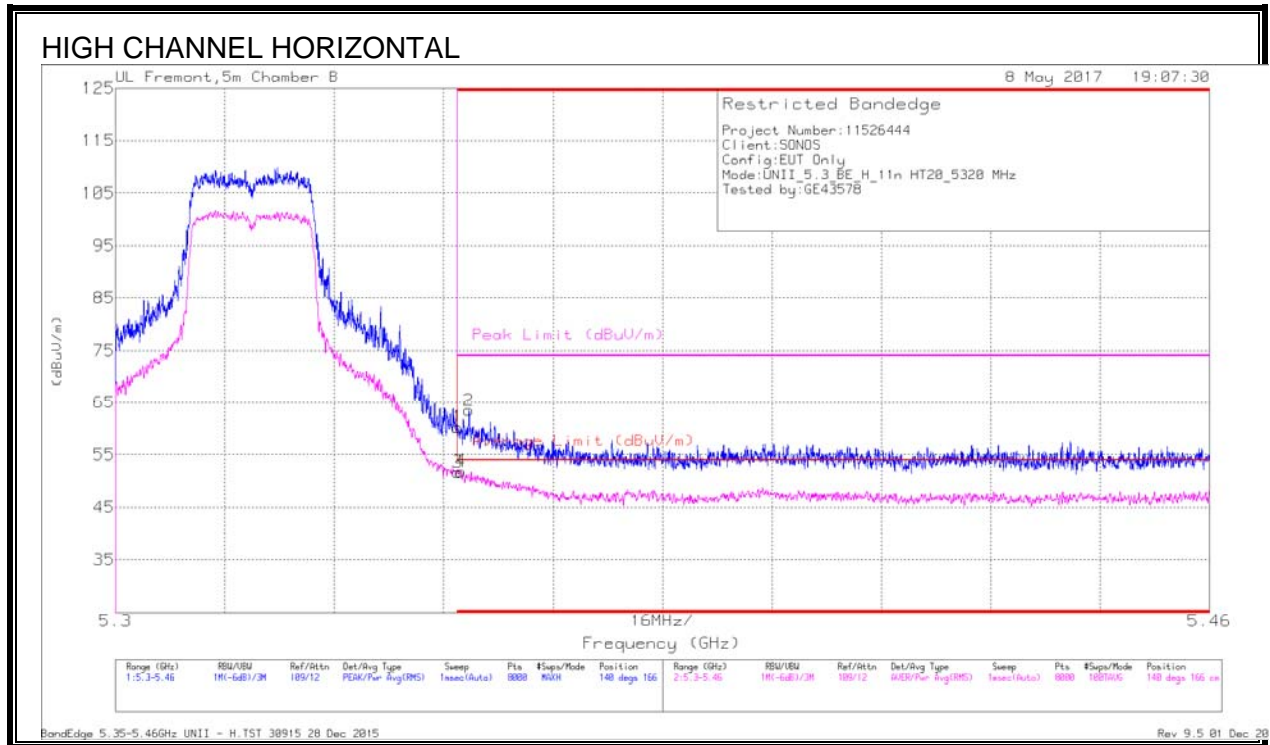
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

10.1.3. 11n HT20 2TX CDD MIMO MODE IN THE 5.3GHZ BAND

AUTHORIZED BANDEDGE (HIGH CHANNEL)



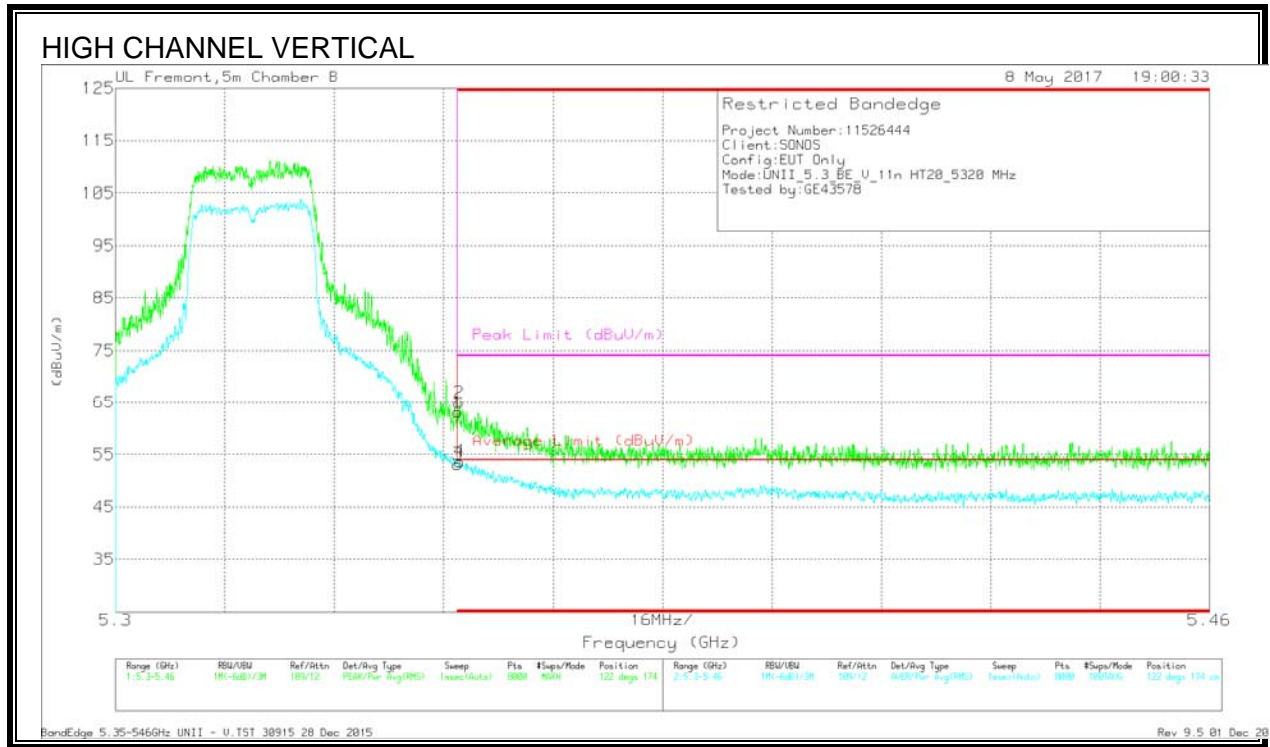
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	Amp/Chl/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	43.97	Pk	35	-18.8	0	60.17	-	-	74	-13.83	140	166	H
3	* 5.35	35.15	RMS	35	-18.8	.37	51.72	54	-2.28	-	-	140	166	H
4	* 5.351	35.28	RMS	35	-18.8	.37	51.85	54	-2.15	-	-	140	166	H
2	* 5.352	47.11	Pk	35	-18.7	0	63.41	-	-	74	-10.59	140	166	H

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

Pk - Peak detector

RMS - RMS detection



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AFT346 (dB/m)	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	* 5.35	46.85	Pk	35	-18.8	0	63.05	-	-	74	-10.95	122	174	V
2	* 5.35	48.8	Pk	35	-18.8	0	65	-	-	74	-9	122	174	V
3	* 5.35	36.56	RMS	35	-18.8	.37	53.13	54	-.87	-	-	122	174	V
4	* 5.35	37.09	RMS	35	-18.8	.37	53.66	54	-.34	-	-	122	174	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

