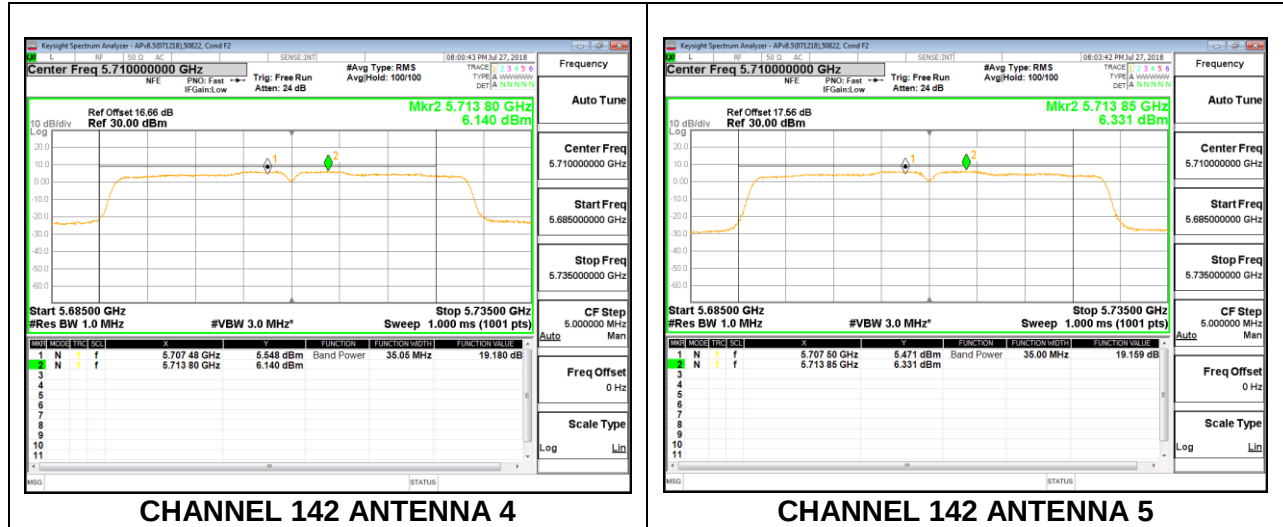


CHANNEL 142



8.5.9. 802.11ac VHT80 MODE IN THE 5.6 GHz BAND

1TX Antenna 4

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.80	-3.80	24.00	11.00
High	5610	82.40	-3.80	24.00	11.00
138	5690	82.40	-3.80	24.00	11.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.44	17.44	24.00	-6.56
High	5610	19.30	19.30	24.00	-4.70
138	5690	18.97	19.16	24.00	-4.84

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	1.67	1.86	11.00	-9.15
High	5610	5.46	5.65	11.00	-5.35
138	5690	2.65	2.84	11.00	-8.16



1TX ANTENNA 5

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.40	-3.90	24.00	11.00
High	5610	83.00	-3.90	24.00	11.00
138	5690	82.60	-3.90	24.00	11.00

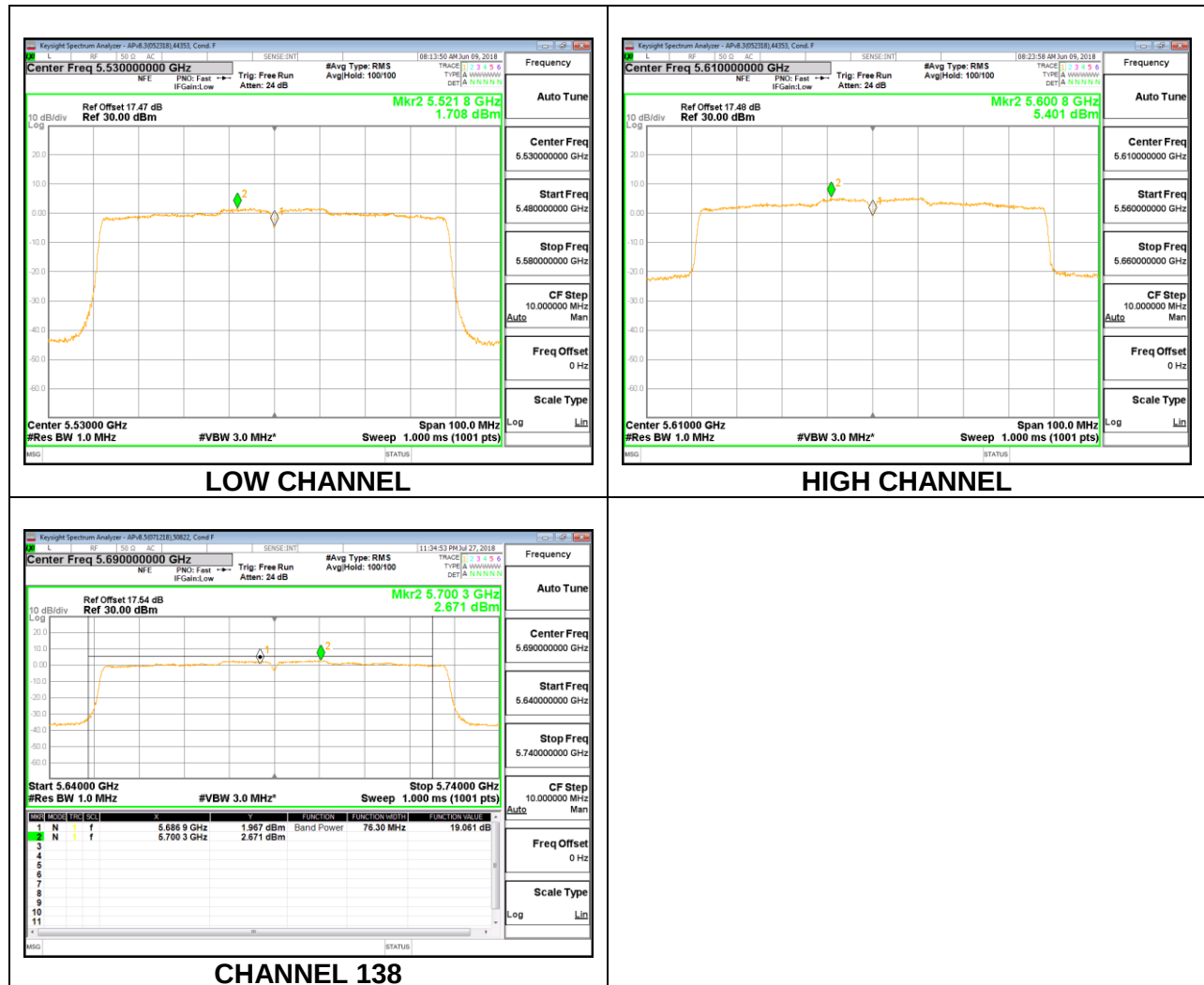
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	17.43	17.43	24.00	-6.57
High	5610	19.42	19.42	24.00	-4.58
138	5690	19.06	19.25	24.00	-4.75

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	1.71	1.90	11.00	-9.10
High	5610	5.40	5.59	11.00	-5.41
138	5690	2.67	2.86	11.00	-8.14



2TX Antenna 4 + ANTENNA 5 CDD MODE

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5530	82.00	-3.85	-0.84	24.00	11.00
High	5610	82.20	-3.85	-0.84	24.00	11.00
138	5690	82.20	-3.85	-0.84	24.00	11.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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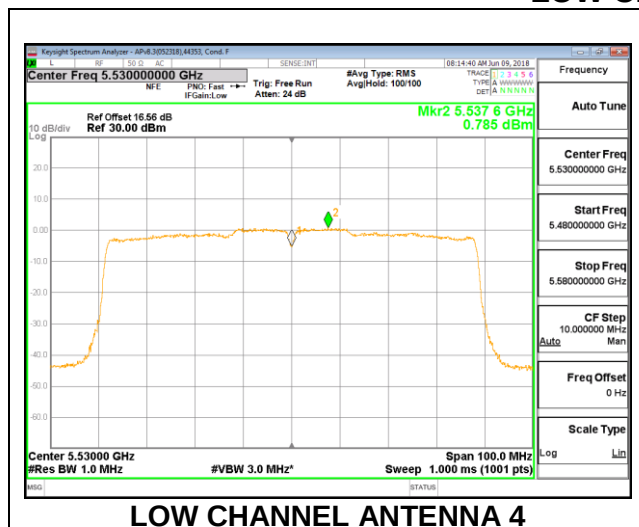
Output Power Results

Channel	Frequency (MHz)	Ant 4 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	16.45	16.39	19.43	24.00	-4.57
High	5610	19.42	19.46	22.45	24.00	-1.55
138	5690	19.08	19.12	22.30	24.00	-1.70

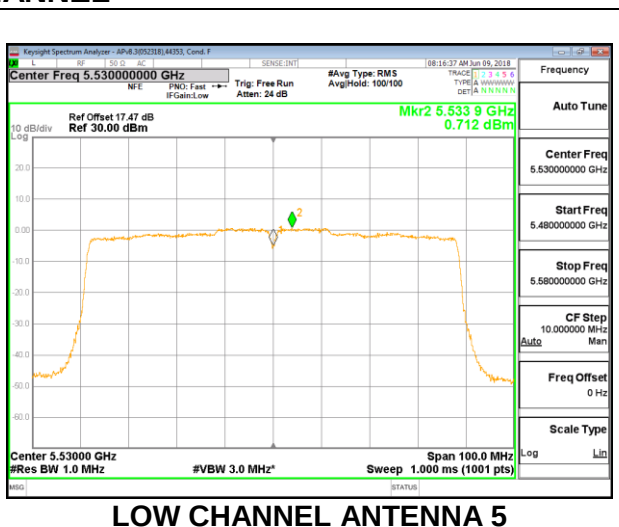
PSD Results

Channel	Frequency (MHz)	Ant 4 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5530	0.79	0.71	3.95	11.00	-7.05
High	5610	3.26	3.31	6.49	11.00	-4.51
138	5690	2.79	3.00	6.10	11.00	-4.90

LOW CHANNEL

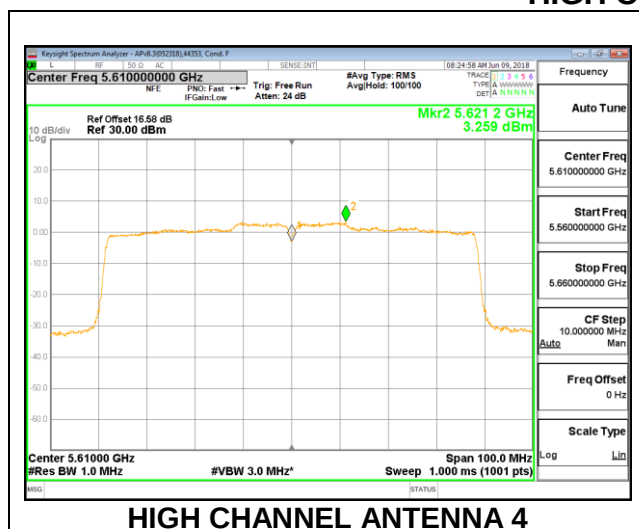


LOW CHANNEL ANTENNA 4

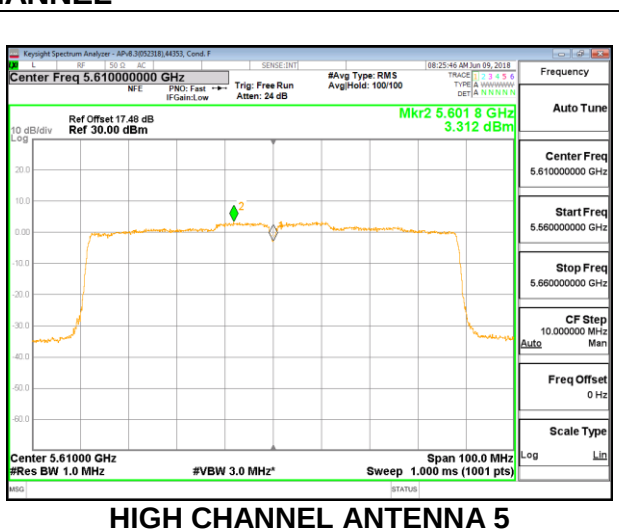


LOW CHANNEL ANTENNA 5

HIGH CHANNEL

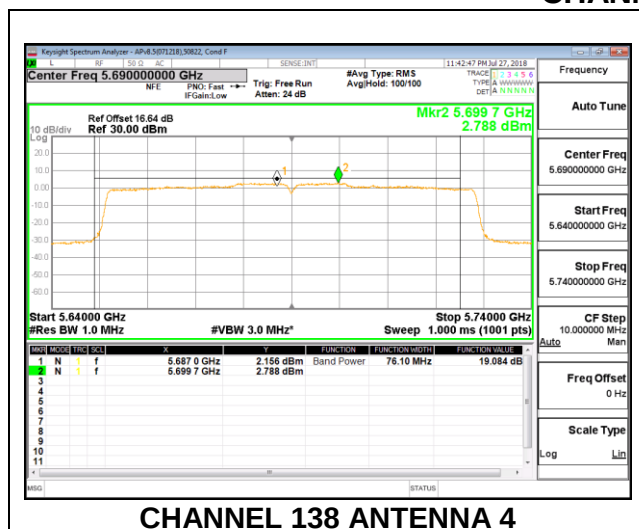


HIGH CHANNEL ANTENNA 4

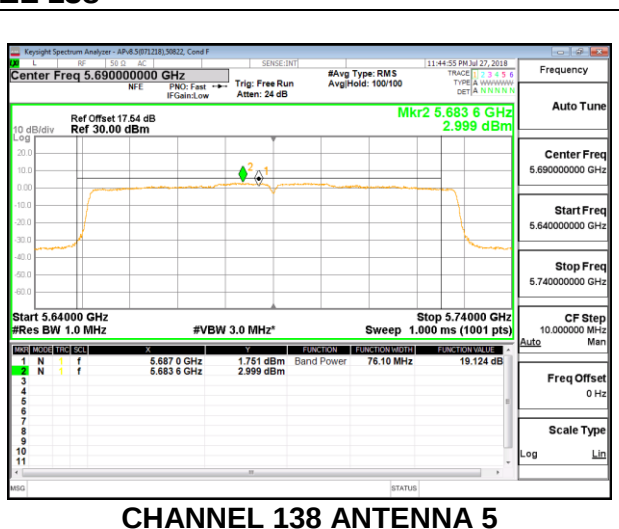


HIGH CHANNEL ANTENNA 5

CHANNEL 138



CHANNEL 138 ANTENNA 4



CHANNEL 138 ANTENNA 5

8.5.10. 802.11n HT20 MODE IN THE 5.8 GHz BAND

1TX Antenna 4

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5745	-3.70	30.00	30.00
Mid	5785	-3.70	30.00	30.00
High	5825	-3.70	30.00	30.00
144	5720	-3.70	30.00	30.00

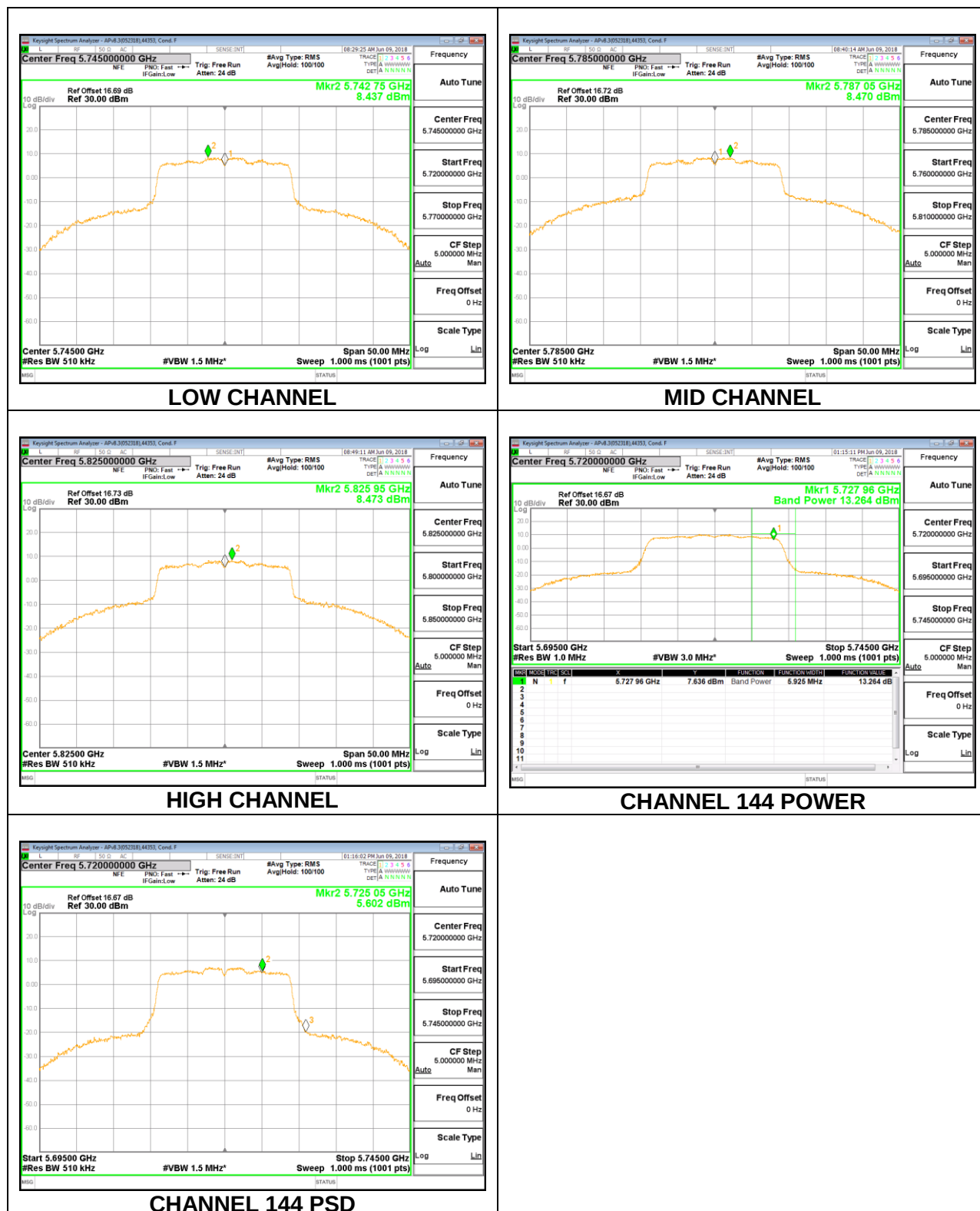
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	21.40	21.40	30.00	-8.60
Mid	5785	21.43	21.43	30.00	-8.57
High	5825	21.44	21.44	30.00	-8.56
144	5720	13.26	13.26	30.00	-16.74

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	8.44	8.44	30.00	-21.56
Mid	5785	8.47	8.47	30.00	-21.53
High	5825	8.47	8.47	30.00	-21.53
144	5720	5.60	5.60	30.00	-24.40



1TX ANTENNA 5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5745	-4.90	30.00	30.00
Mid	5785	-4.90	30.00	30.00
High	5825	-4.90	30.00	30.00
144	5720	-4.90	30.00	30.00

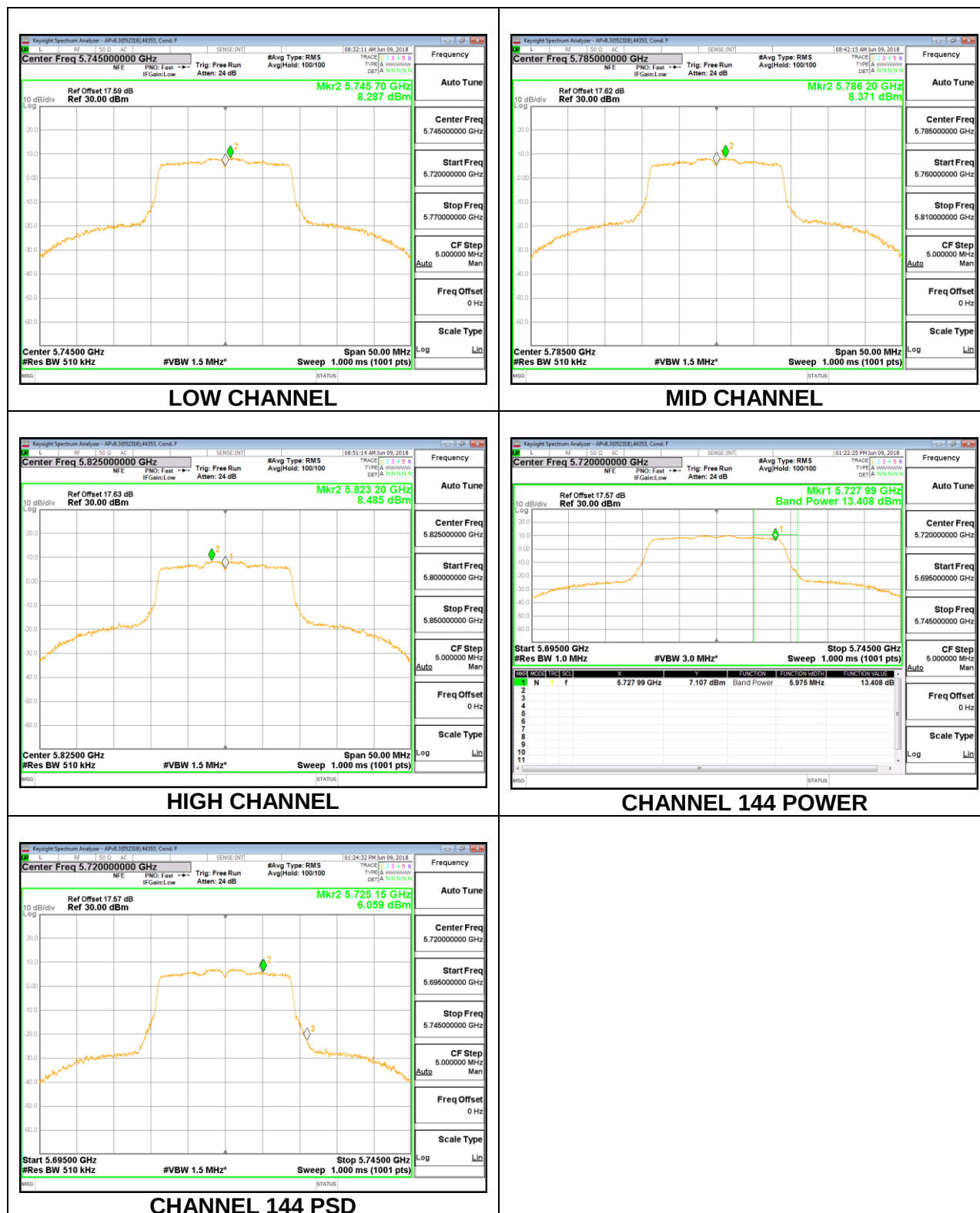
Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	21.34	21.34	30.00	-8.66
Mid	5785	21.39	21.39	30.00	-8.61
High	5825	21.48	21.48	30.00	-8.52
144	5720	13.41	13.41	30.00	-16.59

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	8.29	8.29	30.00	-21.71
Mid	5785	8.37	8.37	30.00	-21.63
High	5825	8.49	8.49	30.00	-21.52
144	5720	6.06	6.06	30.00	-23.94



2TX Antenna 4 + ANTENNA 5 CDD MODE

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5745	-4.26	-1.27	30.00	30.00
Mid	5785	-4.26	-1.27	30.00	30.00
High	5825	-4.26	-1.27	30.00	30.00
144	5720	-4.26	-1.27	30.00	30.00

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power (Ch 144) & PSD
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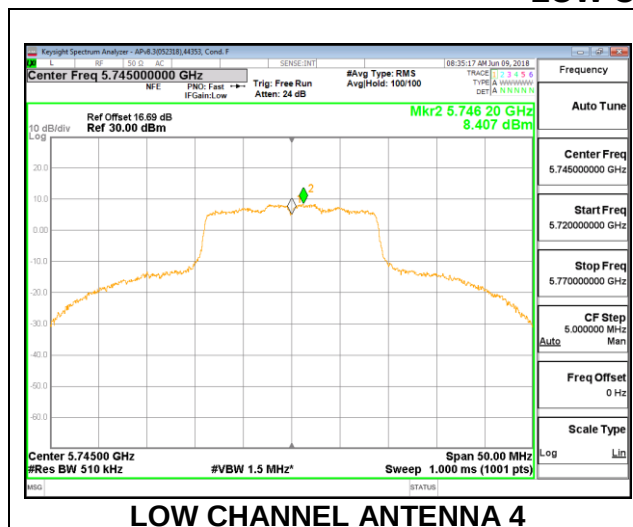
Output Power Results

Channel	Frequency (MHz)	Ant 4 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	21.44	21.48	24.47	30.00	-5.53
Mid	5785	21.38	21.41	24.41	30.00	-5.59
High	5825	21.40	21.42	24.42	30.00	-5.58
144	5720	10.40	10.43	13.42	30.00	-16.58

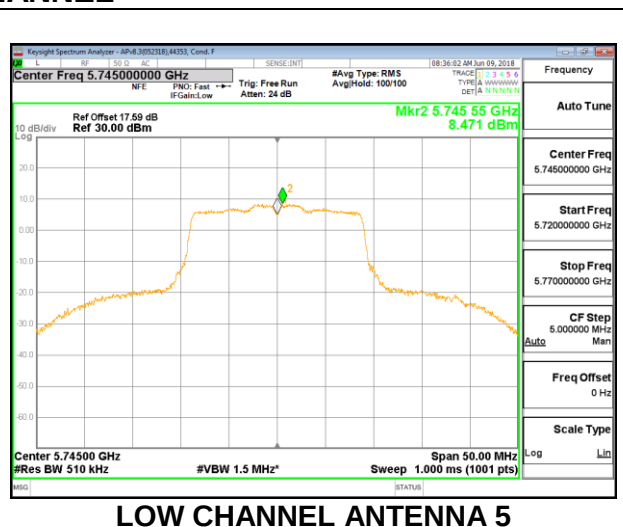
PSD Results

Channel	Frequency (MHz)	Ant 4 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5745	8.41	8.47	11.45	30.00	-18.55
Mid	5785	8.24	8.42	11.35	30.00	-18.65
High	5825	8.38	8.42	11.41	30.00	-18.59
144	5720	3.16	2.92	6.05	30.00	-23.95

LOW CHANNEL

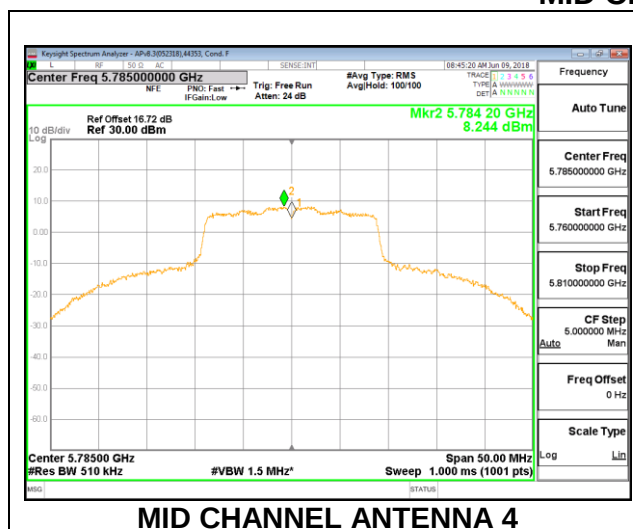


LOW CHANNEL ANTENNA 4

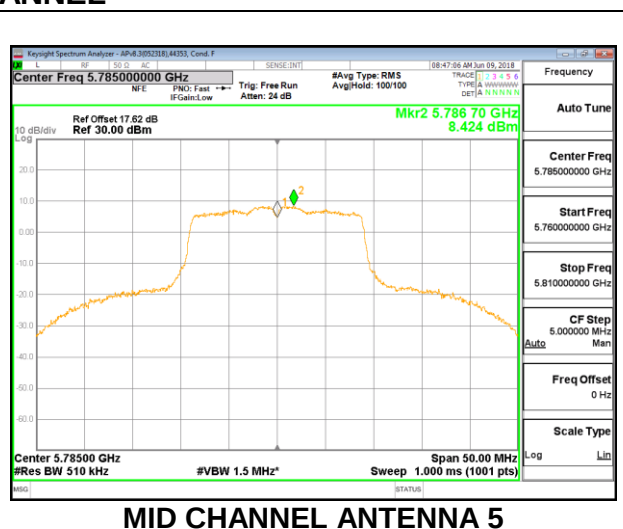


LOW CHANNEL ANTENNA 5

MID CHANNEL

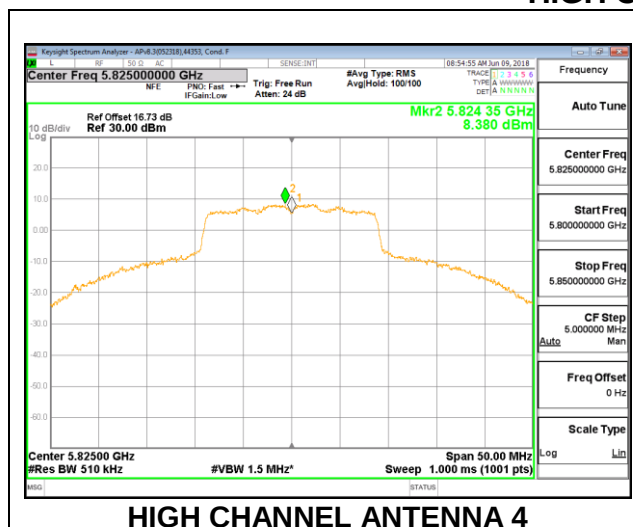


MID CHANNEL ANTENNA 4

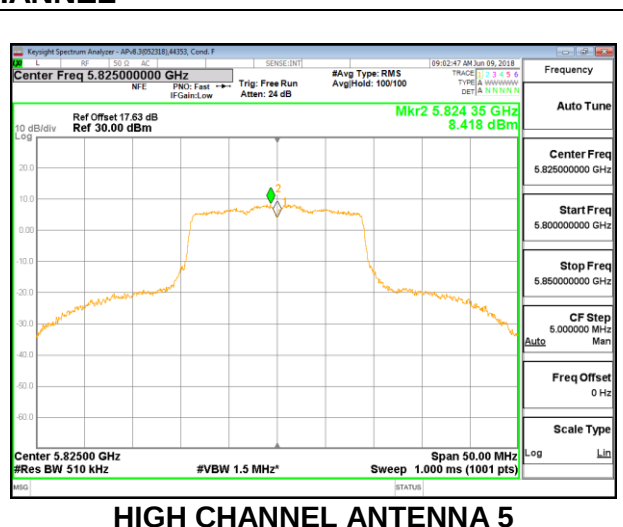


MID CHANNEL ANTENNA 5

HIGH CHANNEL

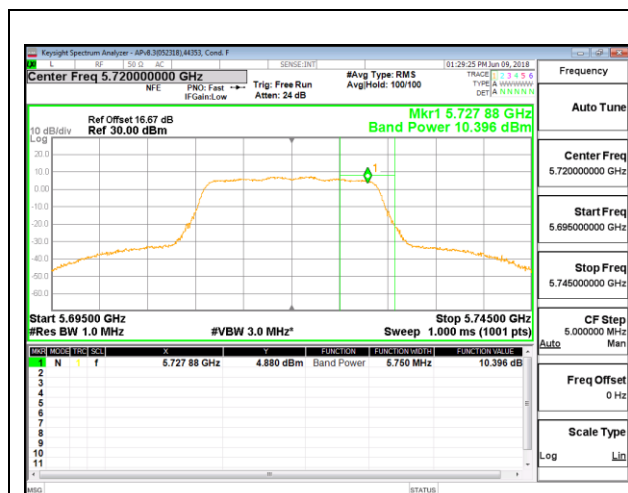


HIGH CHANNEL ANTENNA 4

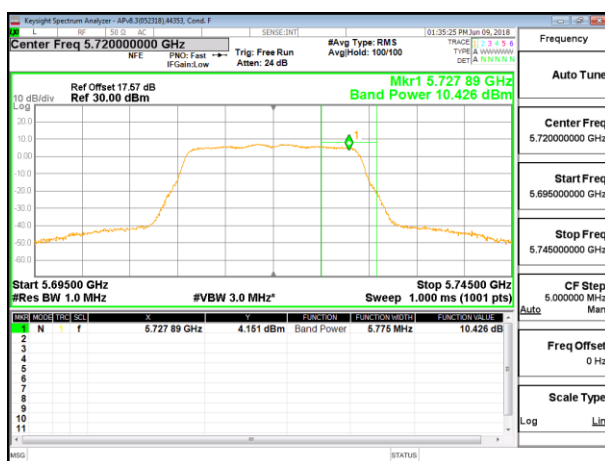


HIGH CHANNEL ANTENNA 5

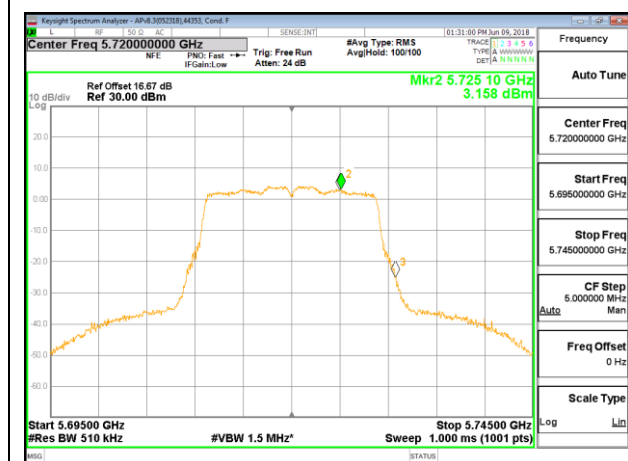
CHANNEL 144



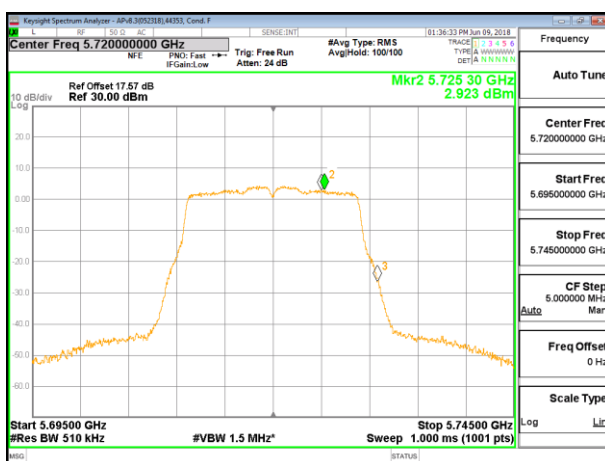
CHANNEL 144 ANTENNA 4 POWER



CHANNEL 144 ANTENNA 5 POWER



CHANNEL 144 ANTENNA 4 PSD



CHANNEL 144 ANTENNA 5 PSD

8.5.11. 802.11n HT40 MODE IN THE 5.8 GHz BAND

1TX Antenna 4

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5755	-3.70	30.00	30.00
High	5795	-3.70	30.00	30.00
142	5710	-3.70	30.00	30.00

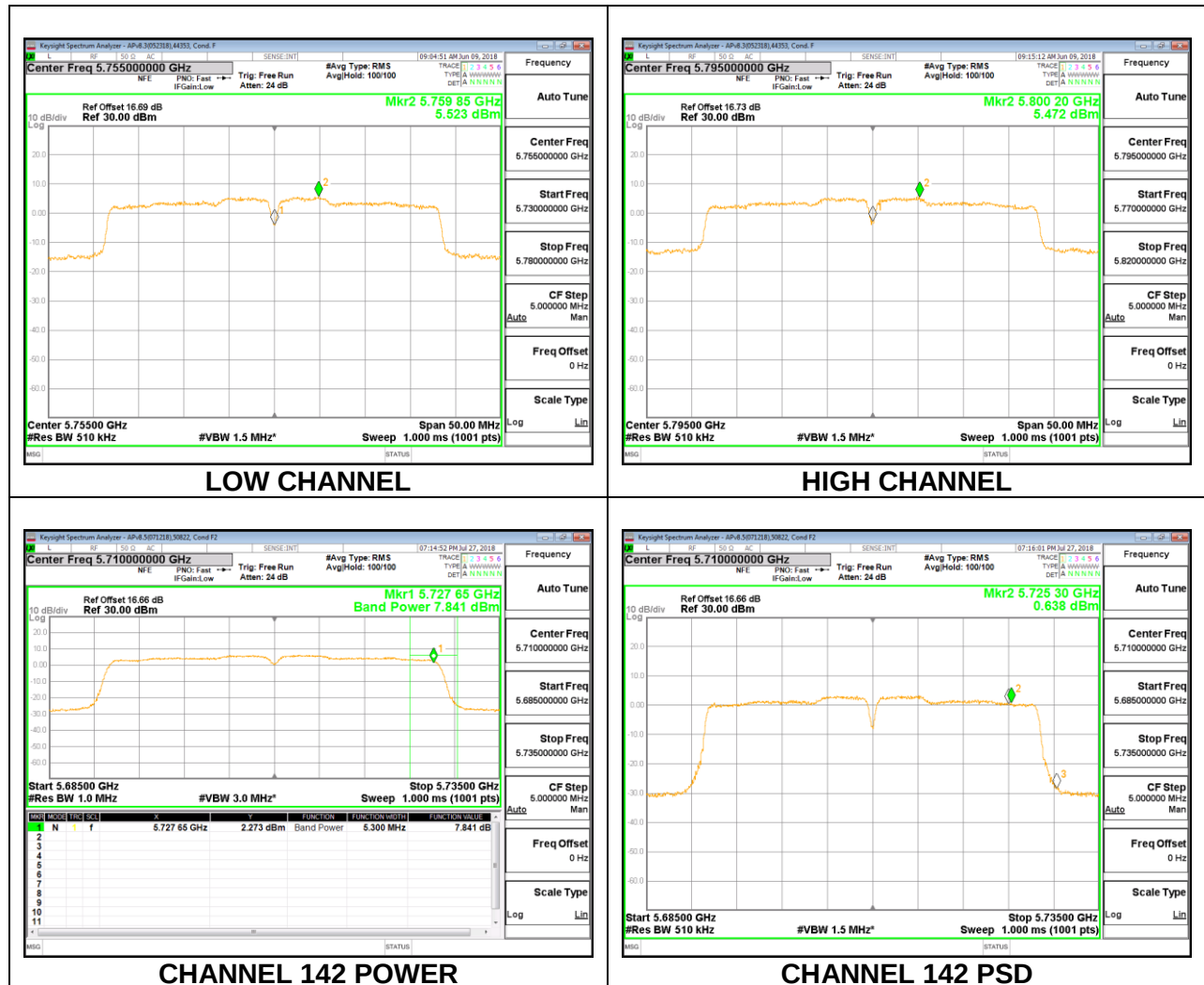
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	19.44	19.44	30.00	-10.56
High	5795	19.41	19.41	30.00	-10.59
142	5710	7.84	7.94	30.00	-22.06

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	5.52	5.62	30.00	-24.38
High	5795	5.47	5.57	30.00	-24.43
142	5710	0.64	0.74	30.00	-29.26



1TX ANTENNA 5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5755	-4.90	30.00	30.00
High	5795	-4.90	30.00	30.00
142	5710	-4.90	30.00	30.00

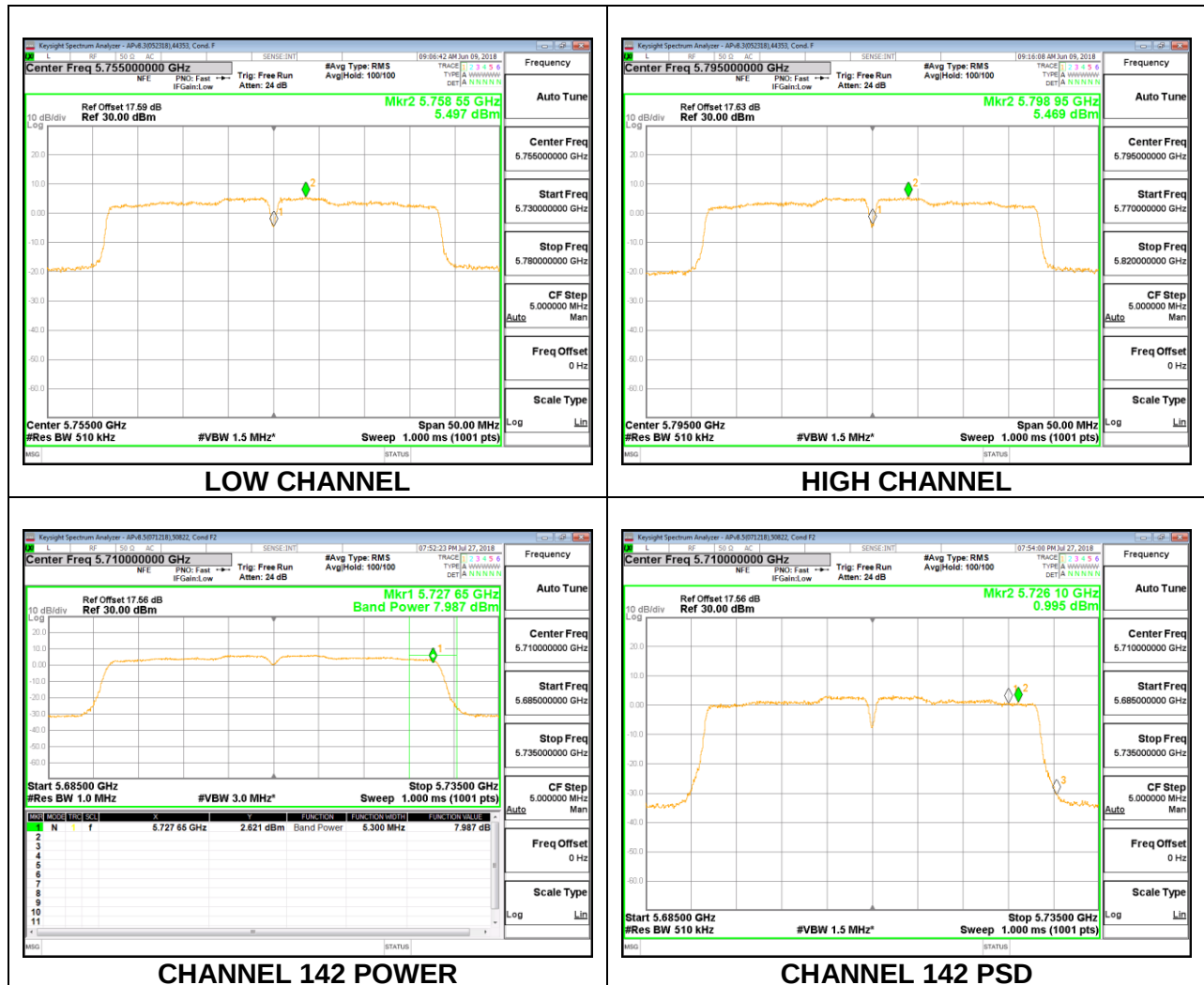
Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	19.43	19.43	30.00	-10.57
High	5795	19.38	19.38	30.00	-10.62
142	5710	7.99	8.09	30.00	-21.91

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5755	5.50	5.60	30.00	-24.40
High	5795	5.47	5.57	30.00	-24.43
142	5710	1.00	1.10	30.00	-28.91



2TX Antenna 4 + ANTENNA 5 CDD MODE

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5755	-4.26	-1.27	30.00	30.00
High	5795	-4.26	-1.27	30.00	30.00
142	5710	-4.26	-1.27	30.00	30.00

Duty Cycle CF (dB)	0.10	Included in Calculations of Corr'd Power (Ch 142) & PSD	
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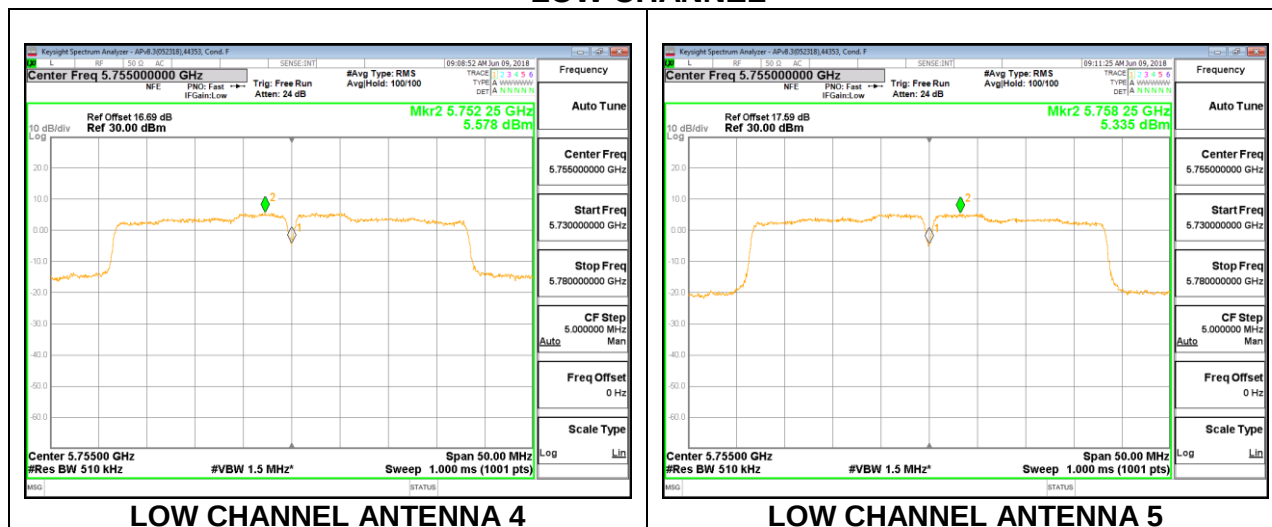
Output Power Results

Channel	Frequency (MHz)	Ant 4 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	19.47	19.37	22.43	30.00	-7.57
High	5795	19.44	19.42	22.44	30.00	-7.56
142	5710	7.97	7.99	11.09	30.00	-18.91

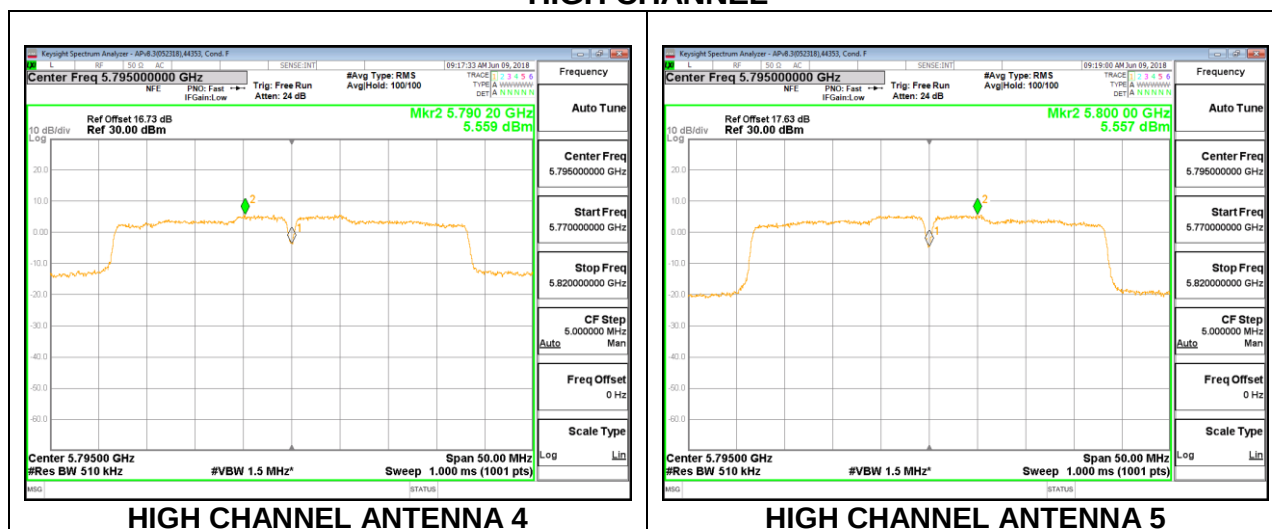
PSD Results

Channel	Frequency (MHz)	Ant 4 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5755	5.58	5.34	8.57	30.00	-21.43
High	5795	5.56	5.56	8.67	30.00	-21.33
142	5710	0.83	0.87	3.96	30.00	-26.04

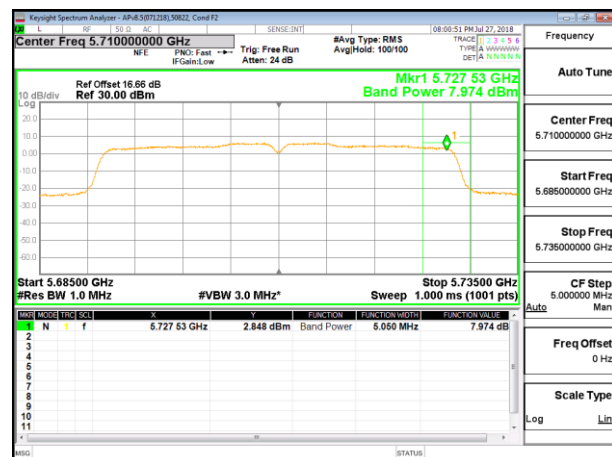
LOW CHANNEL



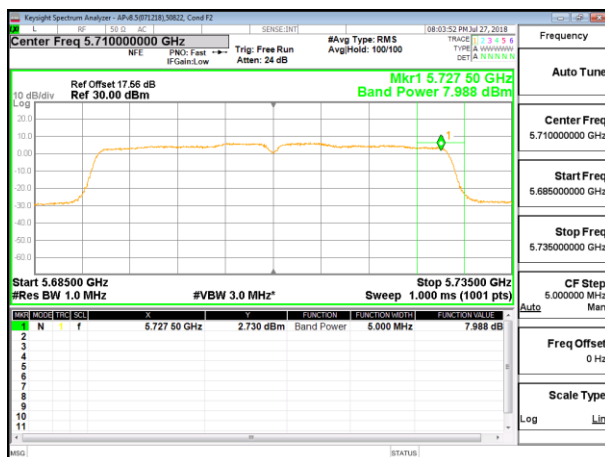
HIGH CHANNEL



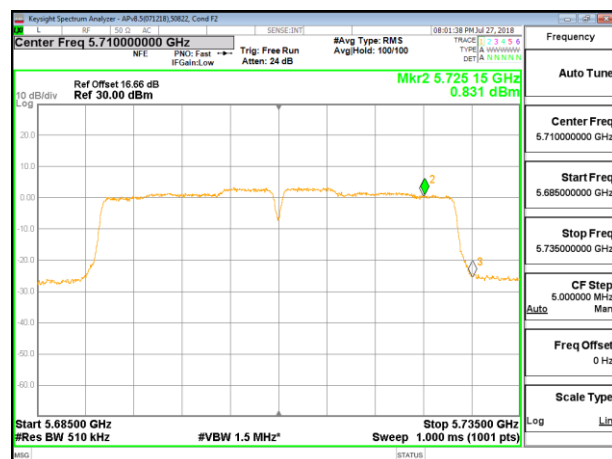
CHANNEL 142



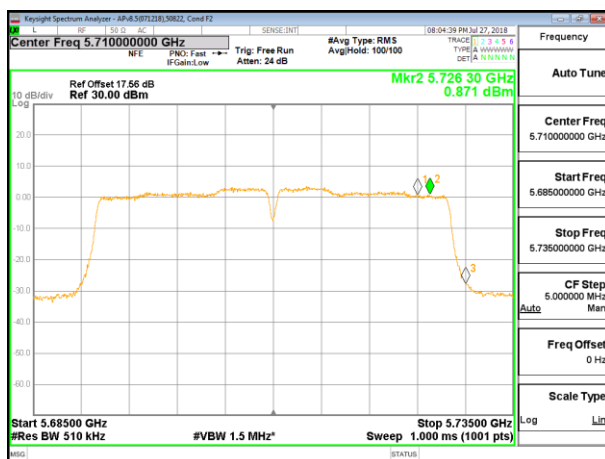
CHANNEL 142 POWER ANTENNA 4



CHANNEL 142 POWER ANTENNA 5



CHANNEL 142 PSD ANTENNA 4



CHANNEL 142 PSD ANTENNA 5

8.5.12. 802.11ac VHT80 MODE IN THE 5.8 GHz BAND

1TX Antenna 4

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5775	-3.70	30.00	30.00
138	5690	-3.70	30.00	30.00

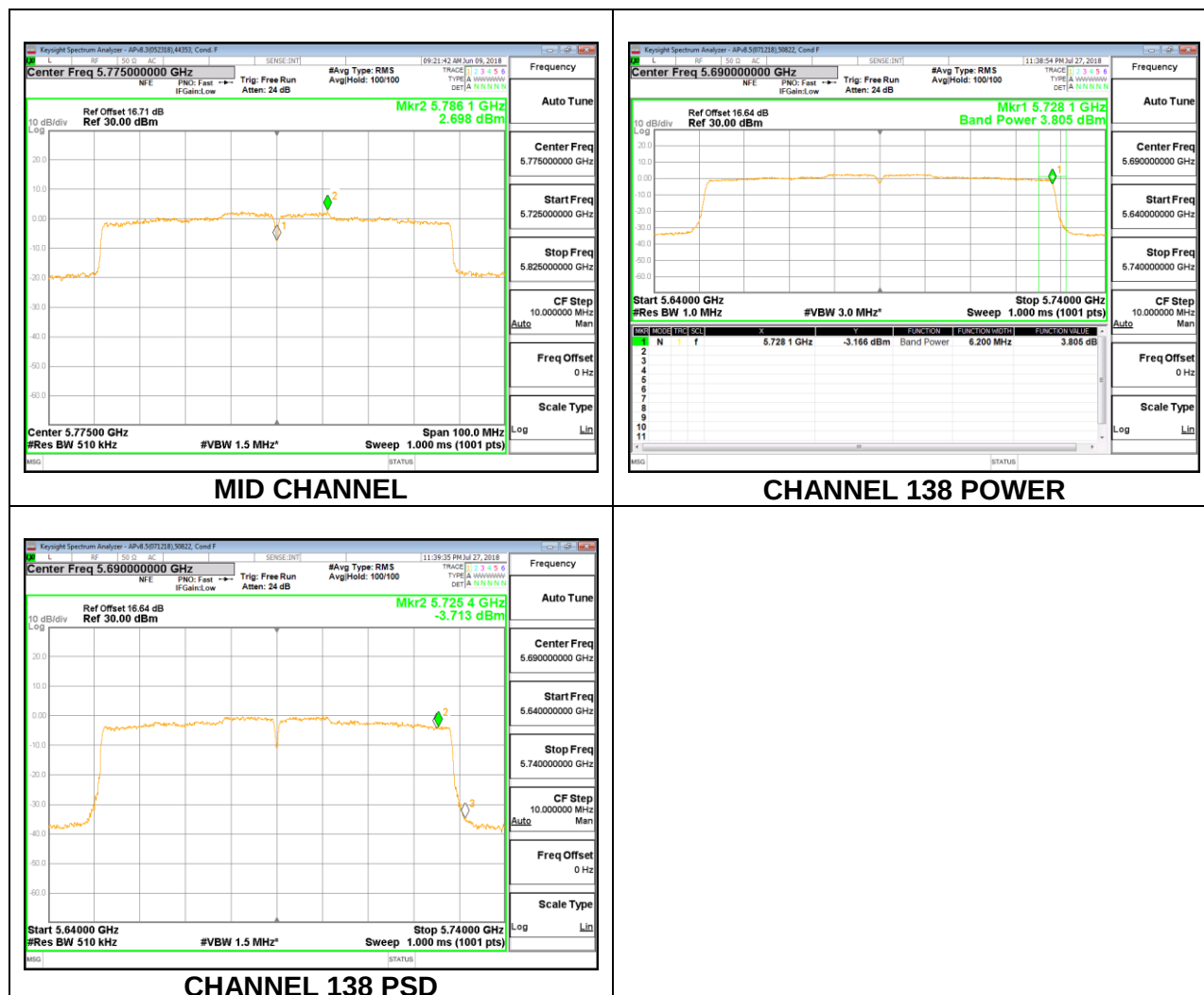
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	19.39	19.39	30.00	-10.61
138	5690	3.81	4.00	30.00	-26.01

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	2.70	2.89	30.00	-27.11
138	5690	-3.71	-3.52	30.00	-33.52



1TX ANTENNA 5

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5775	-4.90	30.00	30.00
138	5690	-4.90	30.00	30.00

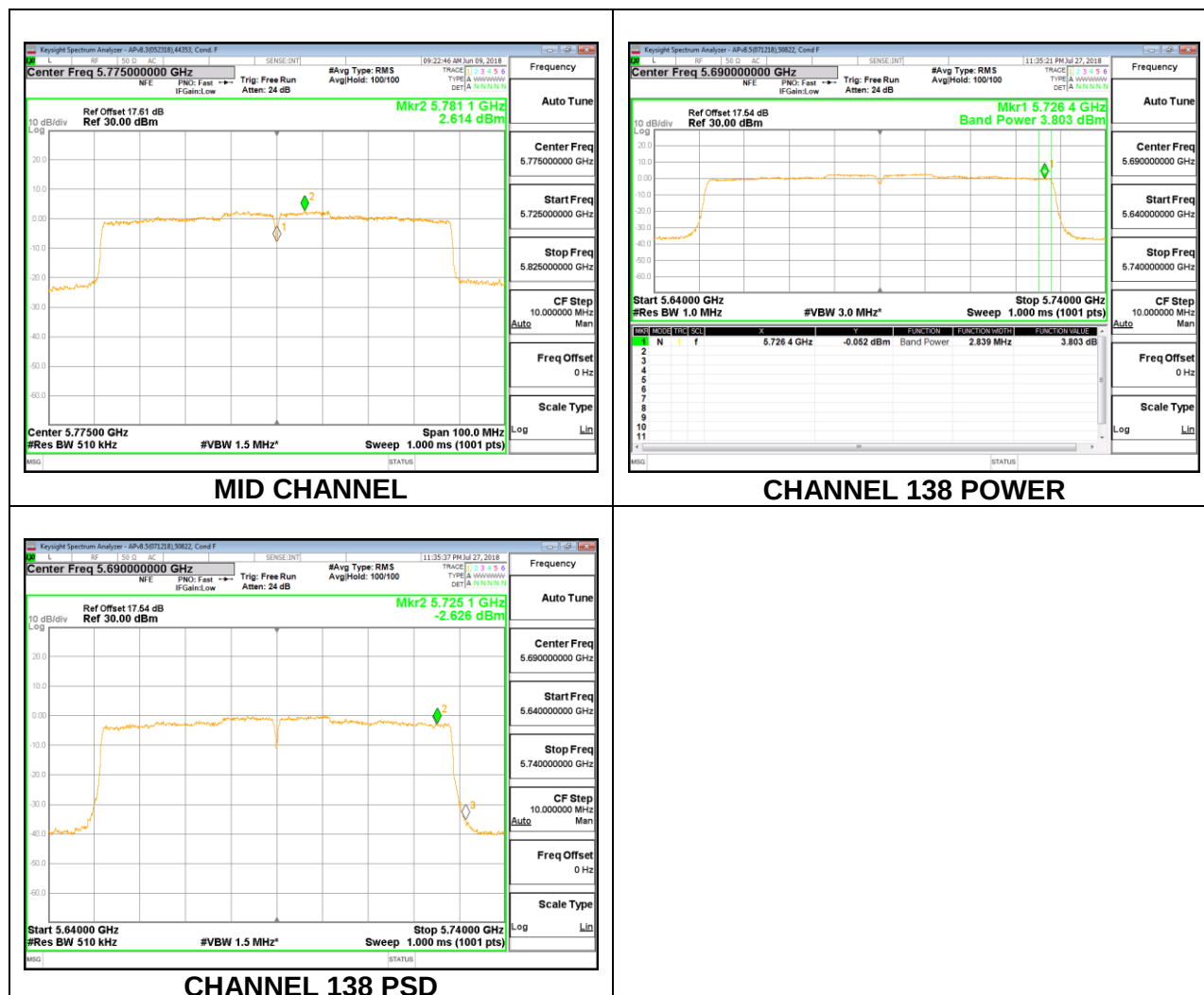
Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD
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Output Power Results

Channel	Frequency (MHz)	Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5775	19.40	19.40	30.00	-10.60
138	5690	3.80	3.99	30.00	-26.01

PSD Results

Channel	Frequency (MHz)	Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	2.61	2.80	30.00	-27.20
138	5690	-2.63	-2.44	30.00	-32.44



2TX Antenna 4 + ANTENNA 5 CDD MODE

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain For Power (dBi)	Directional Gain For PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Mid	5755	-4.26	-1.27	30.00	30.00
138	5690	-4.26	-1.27	30.00	30.00

Duty Cycle CF (dB)	0.19	Included in Calculations of Corr'd Power (Ch 138) & PSD	
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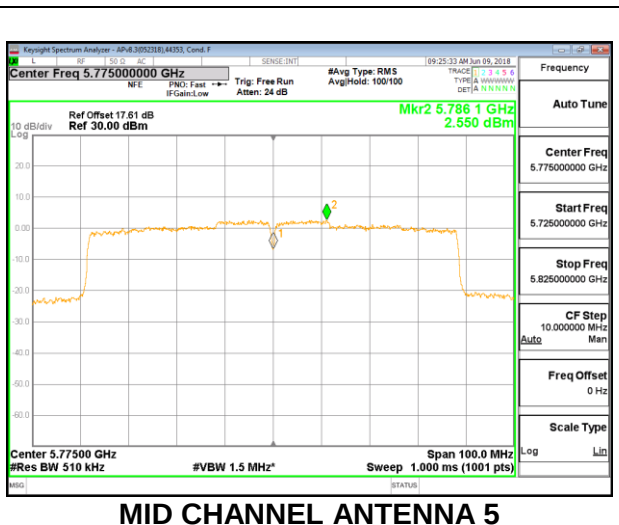
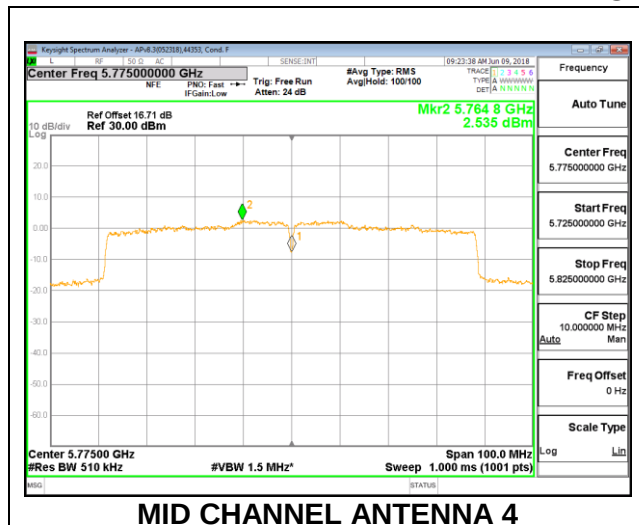
Output Power Results

Channel	Frequency (MHz)	Ant 4 Meas Power (dBm)	Ant 5 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	19.41	19.43	22.43	30.00	-7.57
138	5690	3.94	3.80	7.07	30.00	-22.93

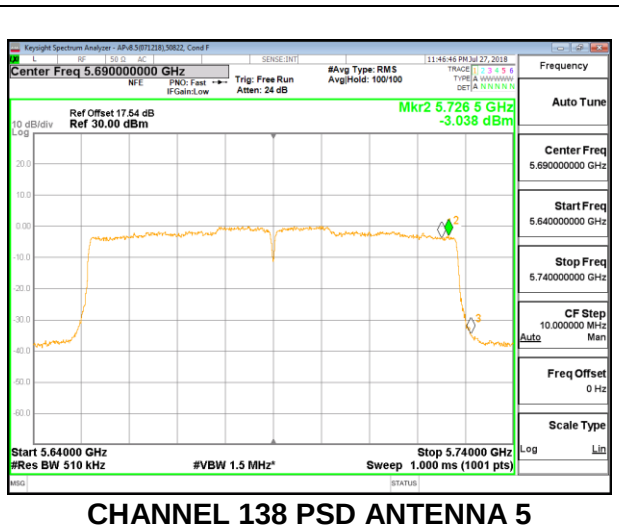
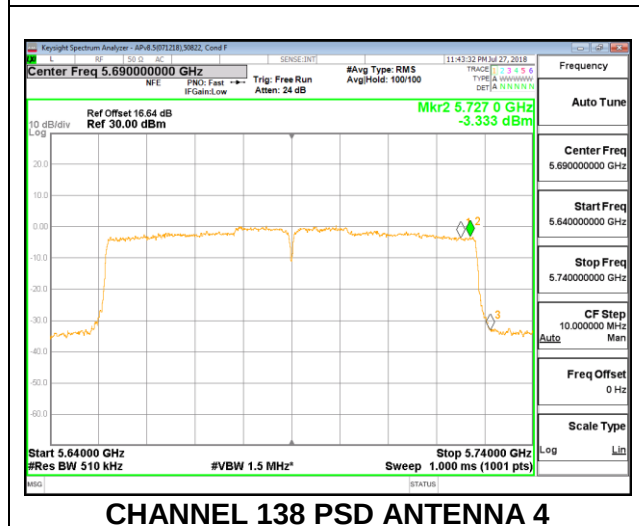
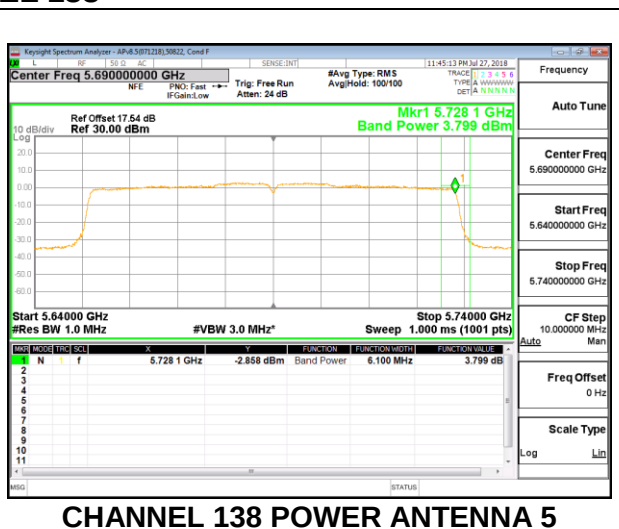
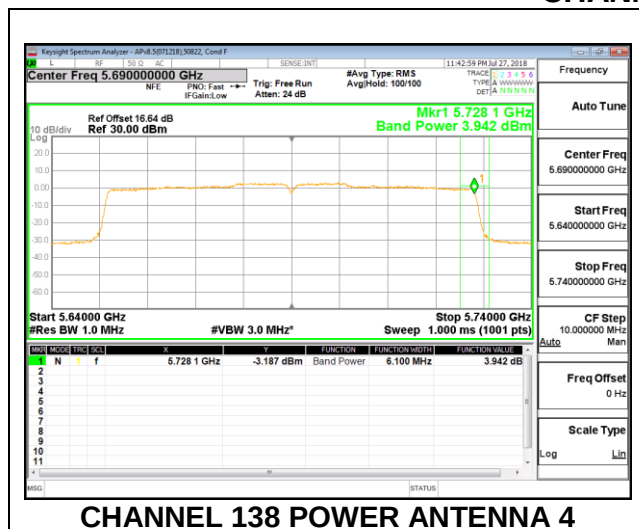
PSD Results

Channel	Frequency (MHz)	Ant 4 Meas PSD (dBm/ 1MHz)	Ant 5 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5775	2.54	2.55	5.74	30.00	-24.26
138	5690	-3.33	-3.04	0.02	30.00	-29.98

MID CHANNEL



CHANNEL 138



9. RADIATED TEST RESULTS

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 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.

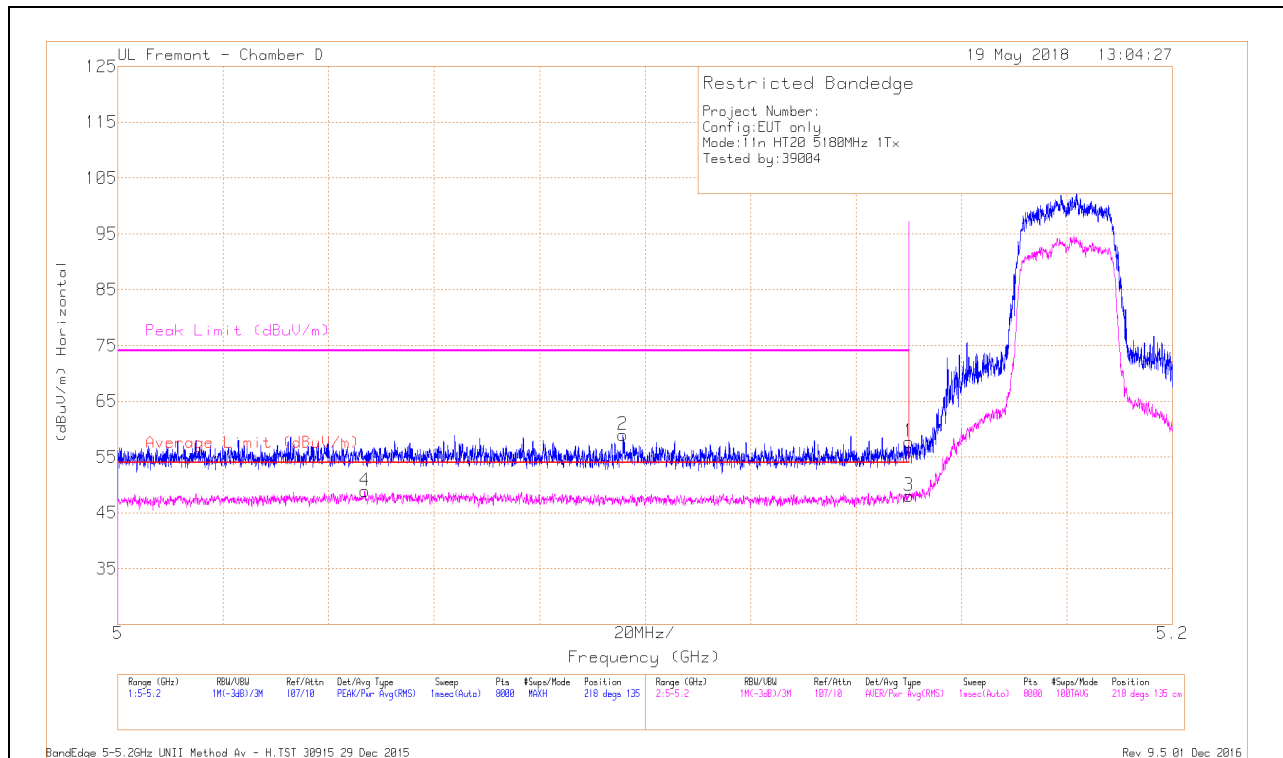
9.1. TRANSMITTER ABOVE 1 GHz

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

1TX Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



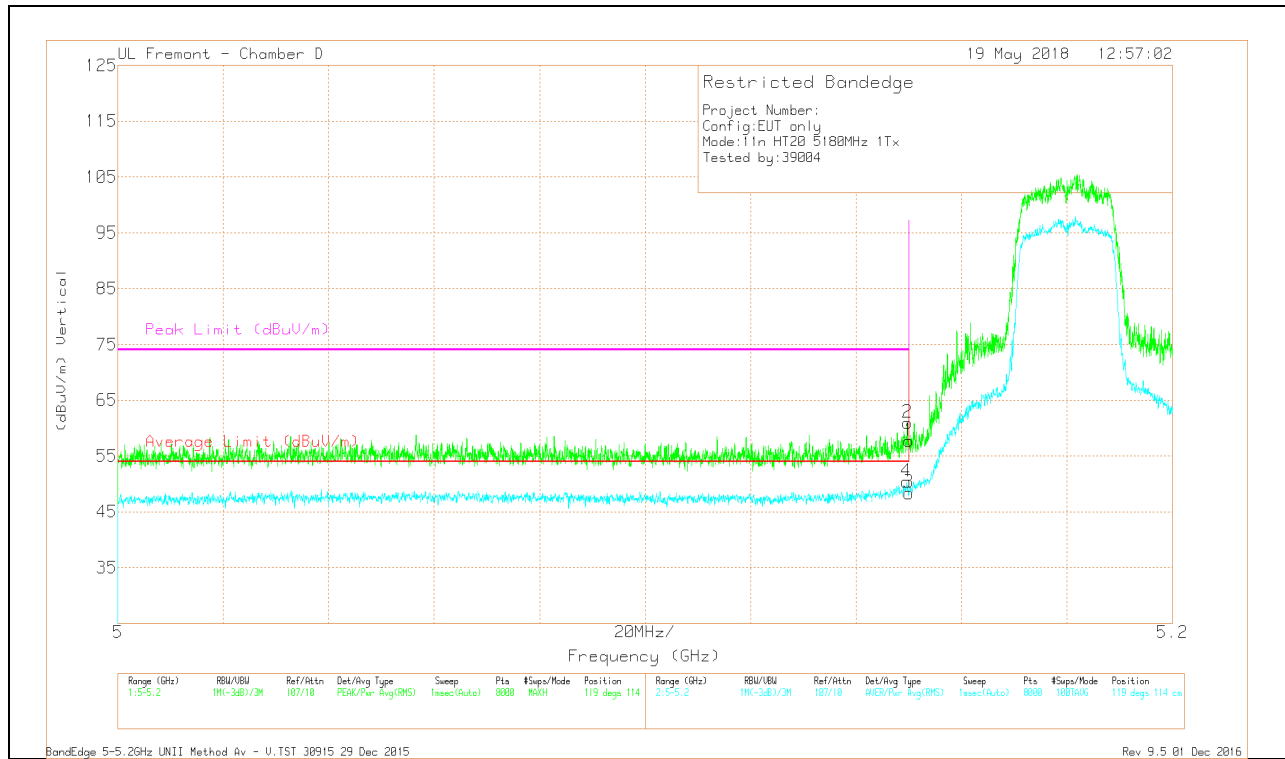
Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dBm)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.047	32.18	RMS	34.5	-17.8	48.88	54	-5.12	-	-	218	135	H
2	* 5.096	42.23	Pk	34.6	-17.8	59.03	-	-	74	-14.97	218	135	H
1	* 5.15	41.15	Pk	34.6	-18	57.75	-	-	74	-16.25	218	135	H
3	* 5.15	31.45	RMS	34.6	-18	48.05	54	-5.95	-	-	218	135	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 T136 (dBm)	Amp/Cbl/Ftr/Pad (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	41.15	Pk	34.6	-18	57.75	-	-	74	-16.25	119	114	V
2	* 5.15	44.36	Pk	34.6	-18	60.96	-	-	74	-13.04	119	114	V
3	* 5.15	31.68	RMS	34.6	-18	48.28	54	-5.72	-	-	119	114	V
4	* 5.15	33.73	RMS	34.6	-18	50.33	54	-3.67	-	-	119	114	V

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

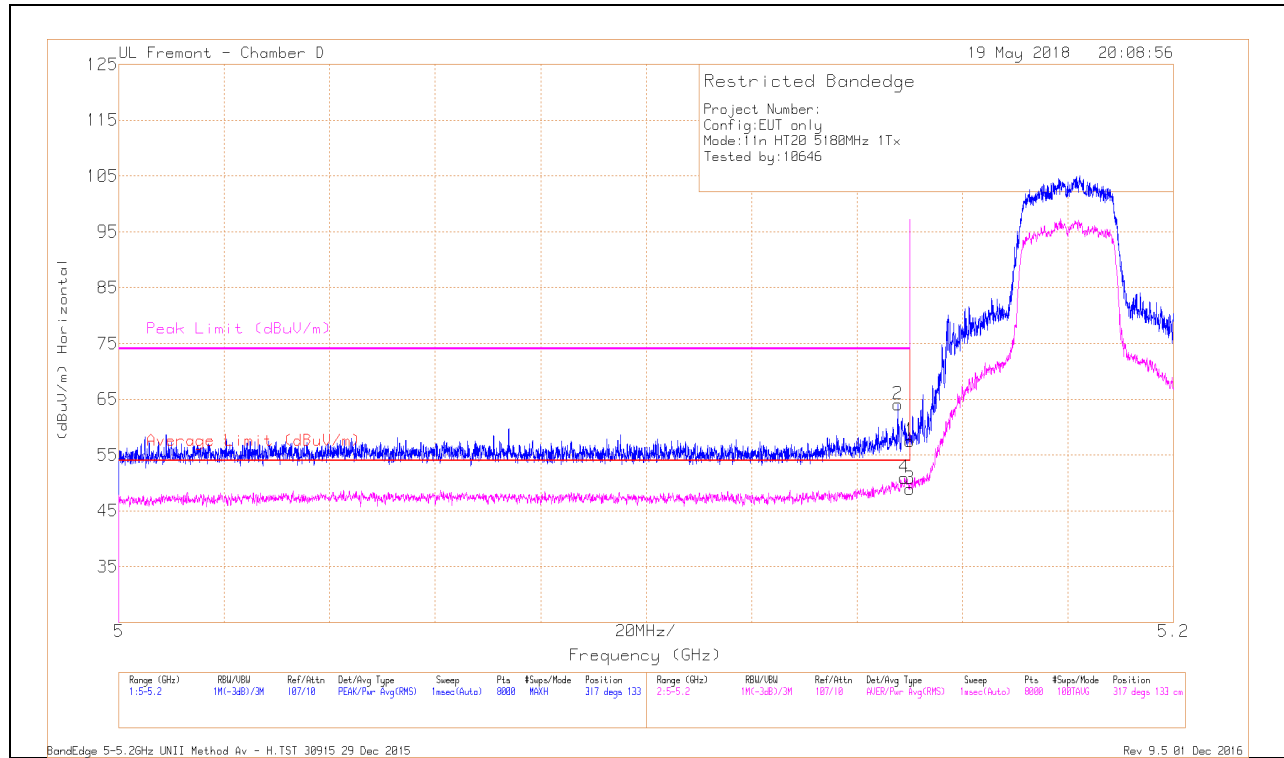
Pk - Peak detector

RMS - RMS detection

1TX ANTENNA 5

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



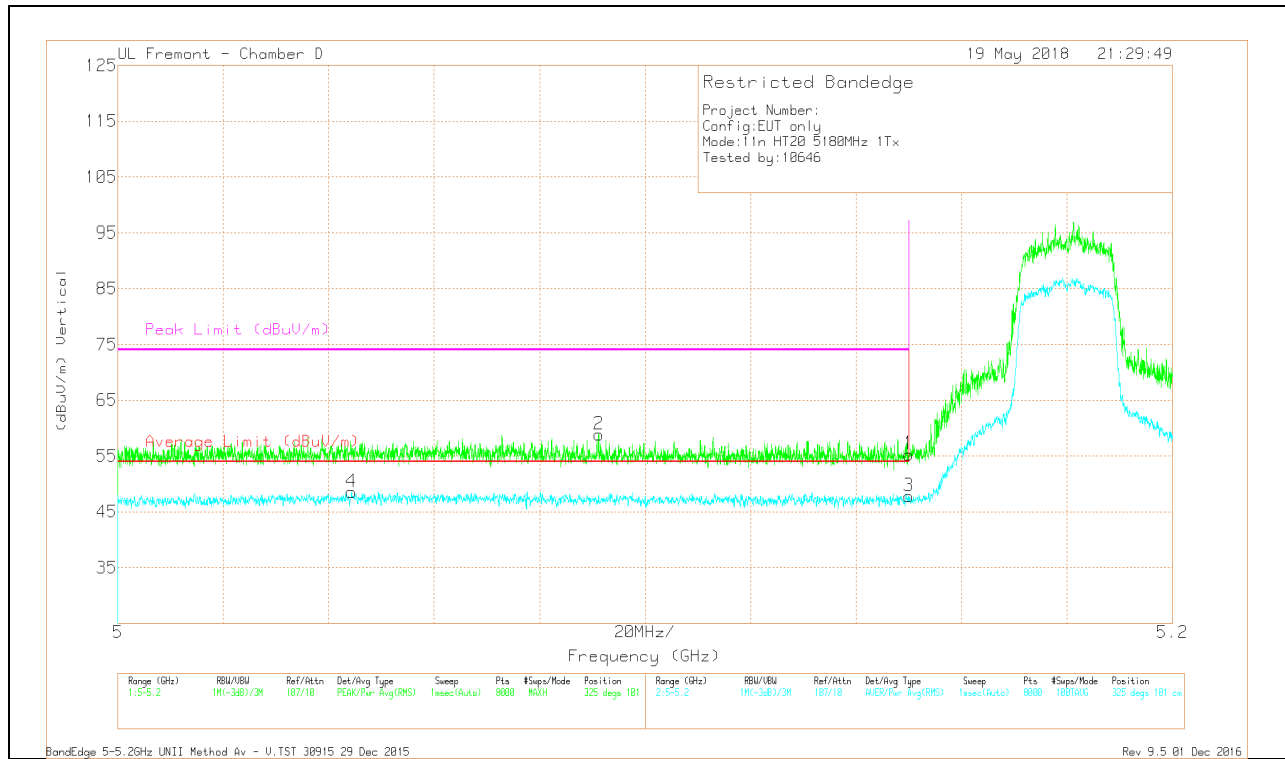
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Correcte d Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	47.49	Pk	34.6	-18	64.09	-	-	74	-9.91	317	133	H
4	* 5.149	34.28	RMS	34.6	-18	50.88	54	-3.12	-	-	317	133	H
1	* 5.15	40.95	Pk	34.6	-18	57.55	-	-	74	-16.45	317	133	H
3	* 5.15	32.27	RMS	34.6	-18	48.87	54	-5.13	-	-	317	133	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

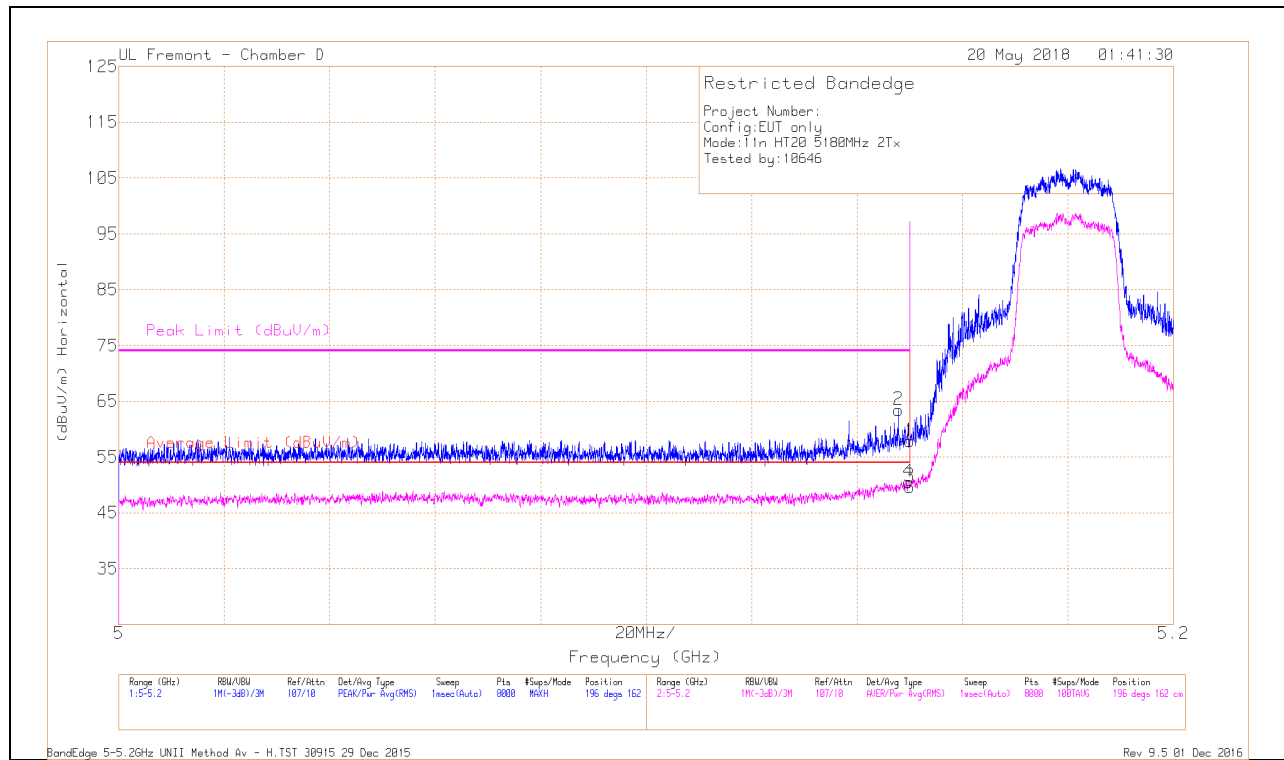


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.044	31.89	RMS	34.4	-17.7	48.59	54	-5.41	-	-	325	101	V
2	* 5.091	42.31	PK	34.5	-17.9	58.91	-	-	74	-15.09	325	101	V
1	* 5.15	38.72	PK	34.6	-18	55.32	-	-	74	-18.68	325	101	V
3	* 5.15	31.21	RMS	34.6	-18	47.81	54	-6.19	-	-	325	101	V

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

PK - Peak detector

RMS - RMS detection

2TX Antenna 4 + ANTENNA 5 CDD MODE**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

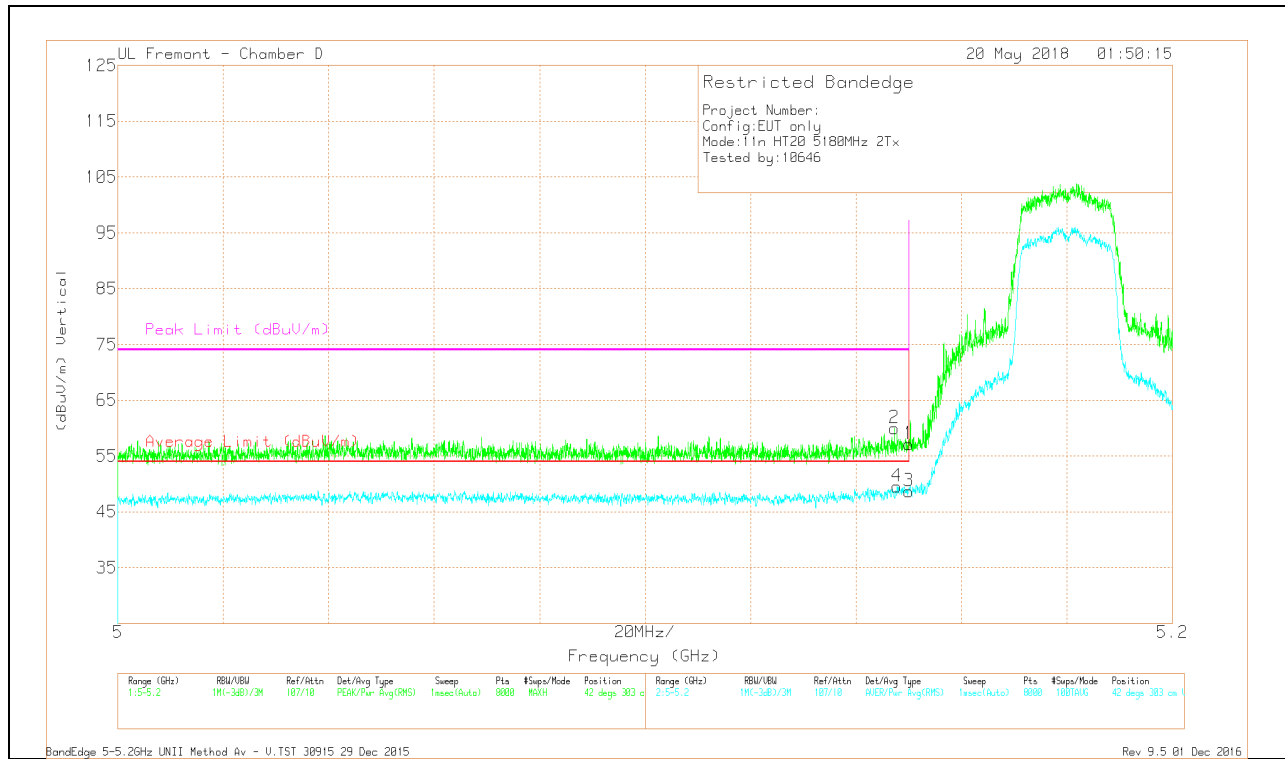
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pa d (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	41.31	Pk	34.6	-18	57.91	-	-	74	-16.09	196	162	H
2	* 5.148	46.8	Pk	34.6	-18	63.4	-	-	74	-10.6	196	162	H
3	* 5.15	33.13	RMS	34.6	-18	49.73	54	-4.27	-	-	196	162	H
4	* 5.15	33.99	RMS	34.6	-18	50.59	54	-3.41	-	-	196	162	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 T136 (dB/m)	Ampl/Cbl/Filtr/Pad (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	40.54	Pk	34.6	-18	57.14	-	-	74	-16.86	42	303	V
2	* 5.147	43.41	Pk	34.6	-18	60.01	-	-	74	-13.99	42	303	V
3	* 5.15	32.04	RMS	34.6	-18	48.64	54	-5.36	-	-	42	303	V
4	* 5.148	32.92	RMS	34.6	-18	49.52	54	-4.48	-	-	42	303	V

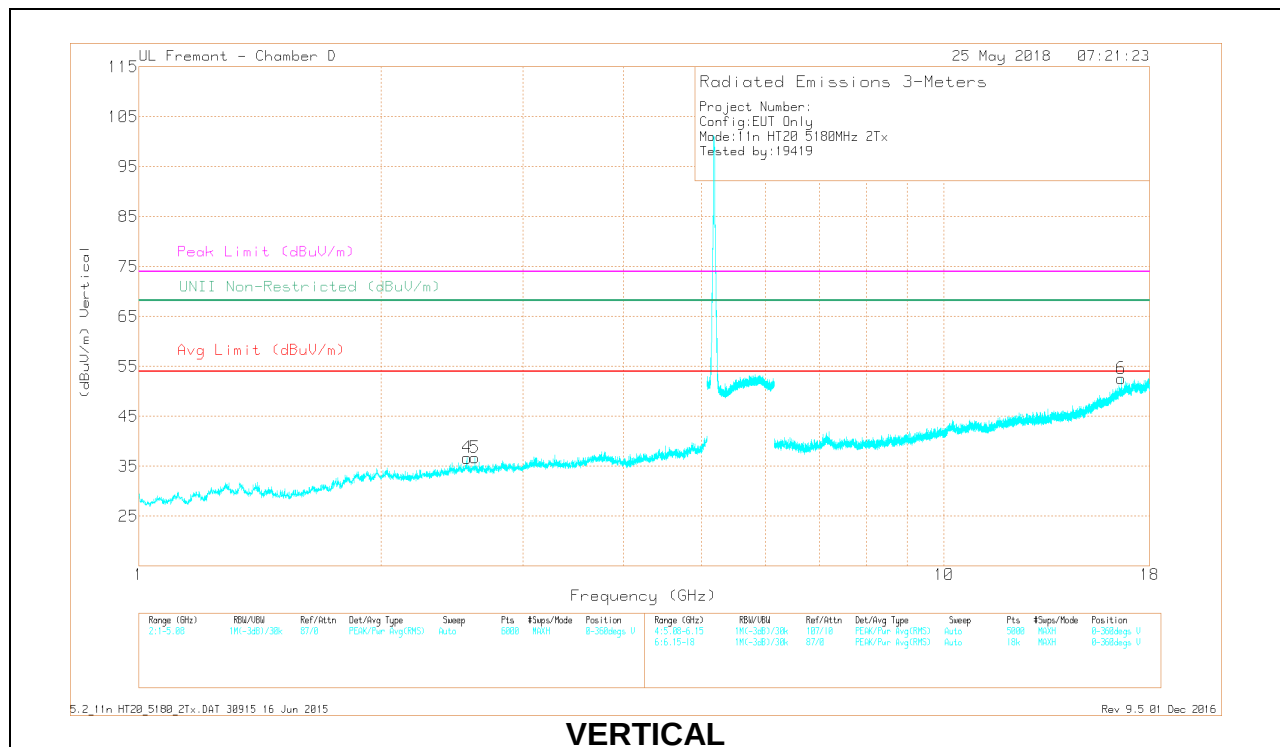
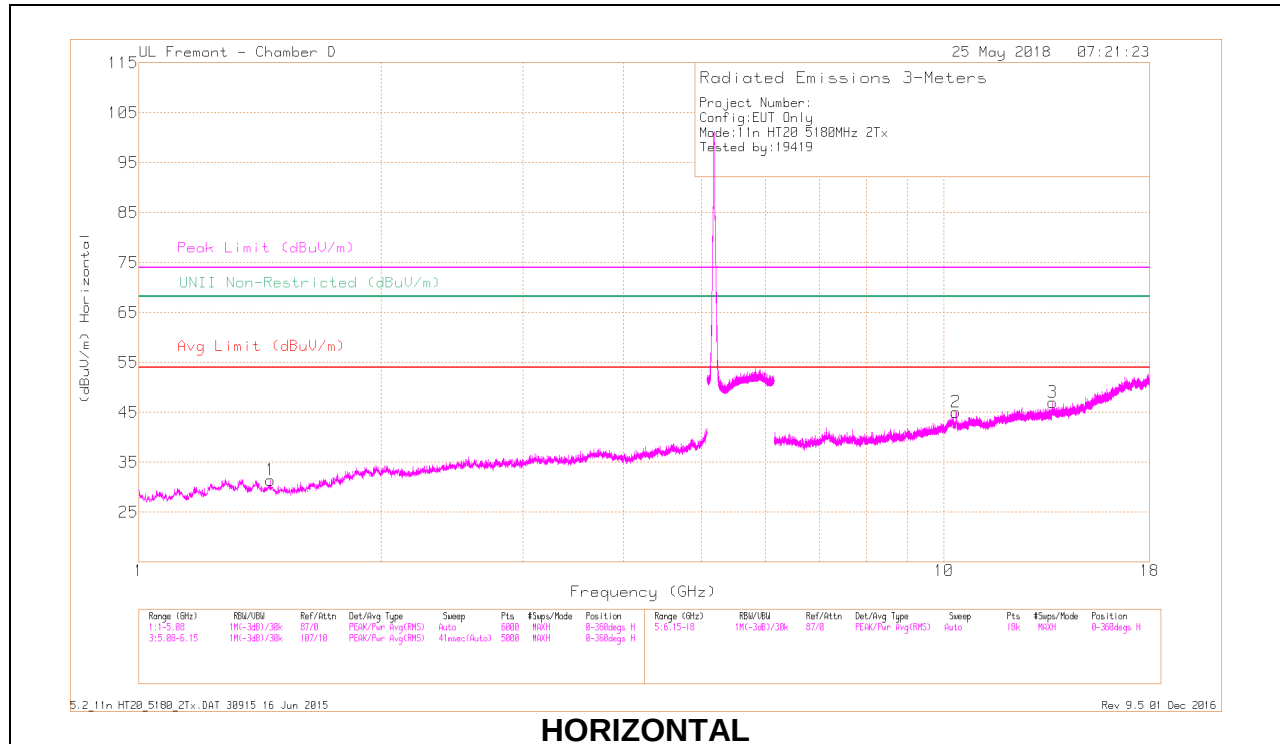
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

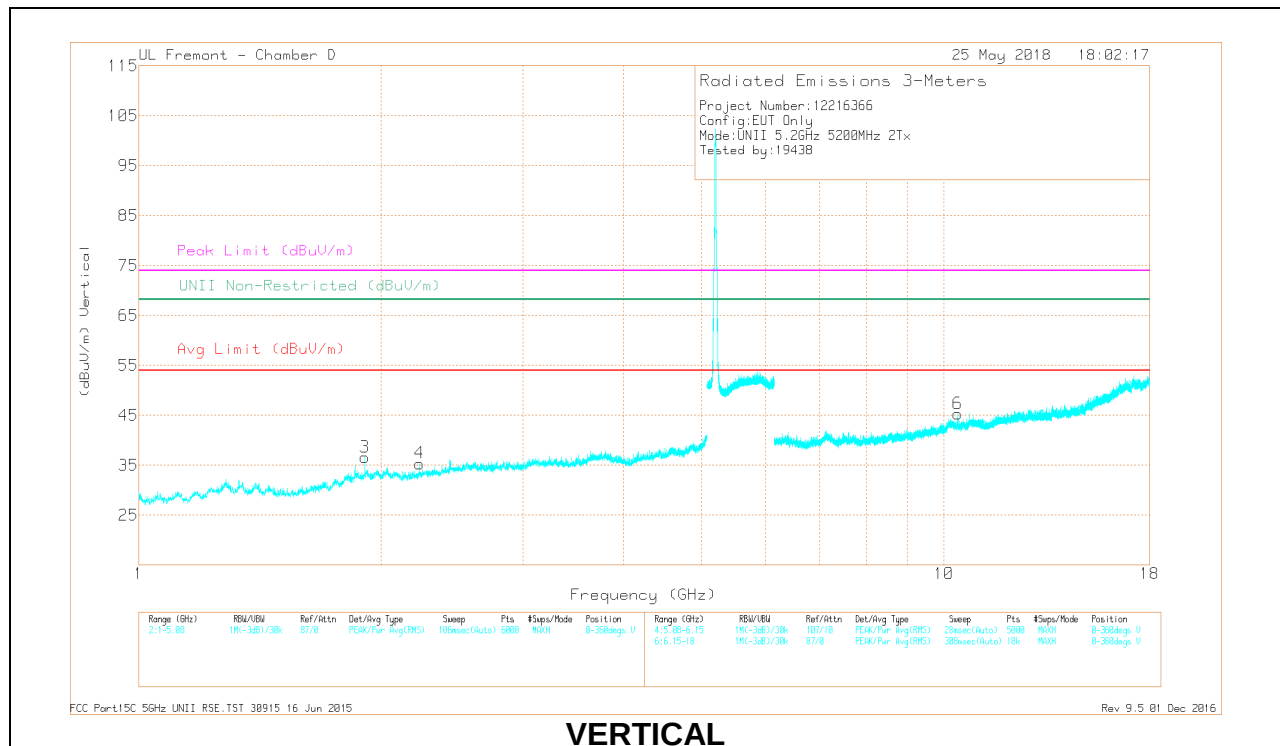
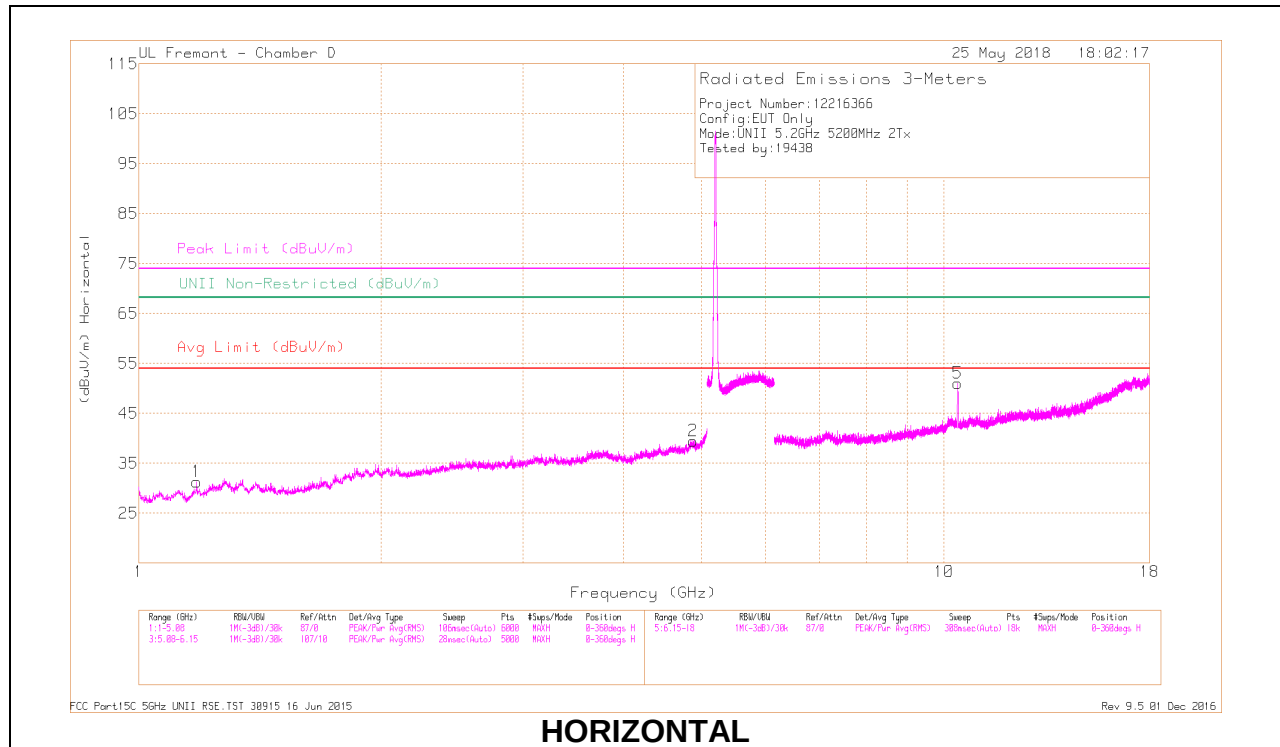
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.455	41.13	PK-U	28.4	-31.3	38.23	-	-	74	-35.77	-	-	154	241	H
	* 1.458	28.88	ADR	28.4	-31.3	25.98	54	-28.02	-	-	-	-	154	241	H
4	2.556	40.12	PK-U	32.5	-29.3	43.32	-	-	-	-	68.2	-24.88	160	384	V
5	2.614	39.34	PK-U	32.6	-29.5	42.44	-	-	-	-	68.2	-25.76	324	263	V
2	10.354	36.25	PK-U	37.5	-20.7	53.05	-	-	-	-	68.2	-15.15	142	203	H
3	13.64	36.15	PK-U	39	-21.7	53.45	-	-	-	-	68.2	-14.75	259	327	H
6	16.586	33.25	PK-U	42.1	-17.9	57.45	-	-	-	-	68.2	-10.75	206	265	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

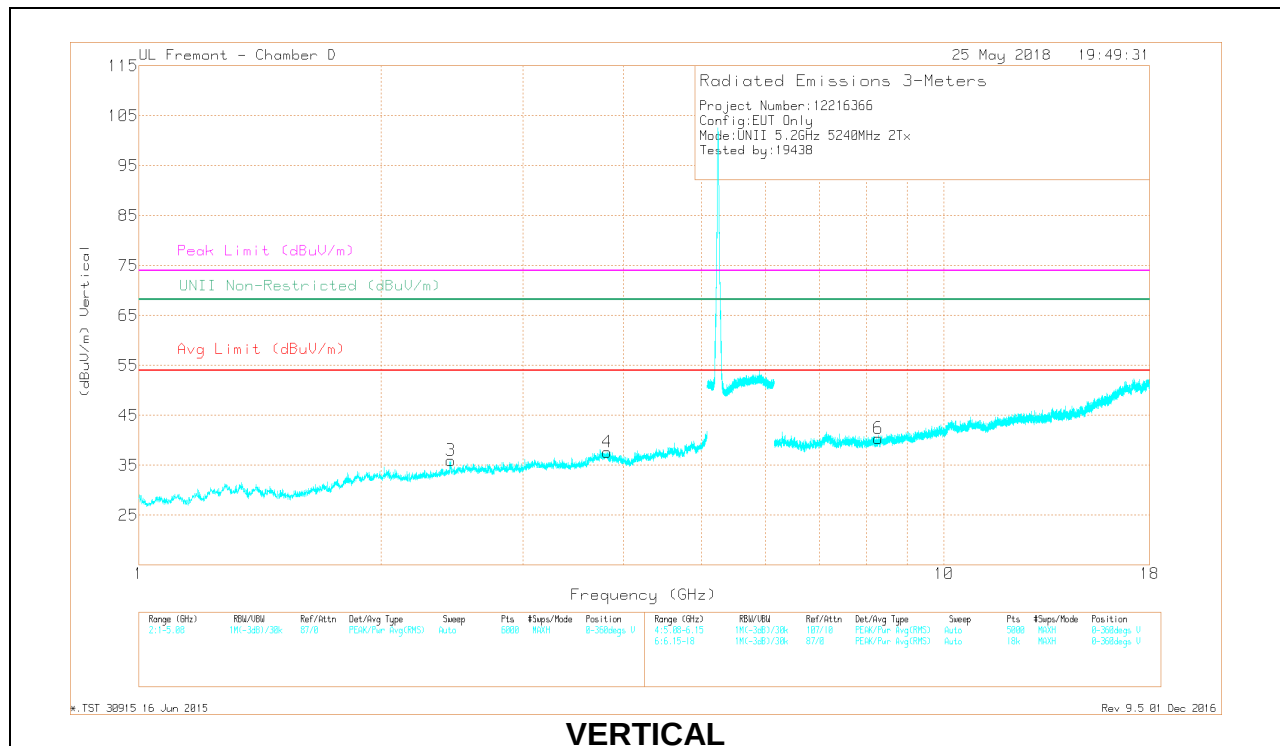
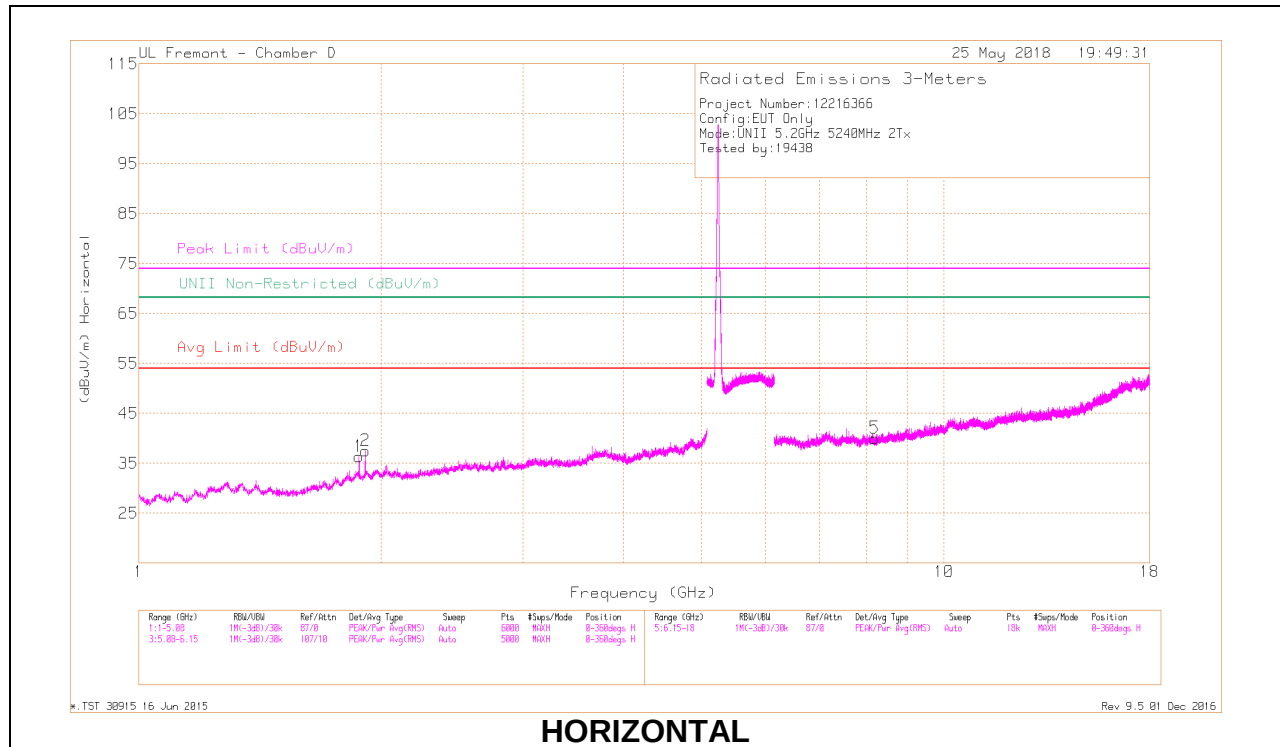
Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Correcte d Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non- Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.183	41.63	PK-U	28	-32	37.63	-	-	74	-36.37	-	-	281	177	H
	* 1.179	29.85	ADR	27.9	-31.9	25.85	54	-28.15	-	-	-	-	281	177	H
2	* 4.88	36.52	PK-U	34.4	-24.8	46.12	-	-	74	-27.88	-	-	201	109	H
	* 4.883	24.87	ADR	34.4	-24.9	34.37	54	-19.63	-	-	-	-	201	109	H
4	* 2.231	40.61	PK-U	31.4	-30.6	41.61	-	-	74	-32.39	-	-	101	301	V
	* 2.23	28.61	ADR	31.4	-30.6	29.41	54	-24.59	-	-	-	-	101	301	V
3	1.909	41.08	PK-U	31.5	-30.9	41.68	-	-	-	-	68.2	-26.52	160	172	V
5	10.397	41.4	PK-U	37.6	-21	58	-	-	-	-	68.2	-10.2	0	211	H
6	10.404	35.23	PK-U	37.6	-20.9	51.93	-	-	-	-	68.2	-16.27	287	177	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

Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Ftr/Pad (dB)	Correcte d 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	* 3.817	38.41	PK-U	33.6	-28.3	43.71	-	-	74	-30.29	-	-	217	174	V
	* 3.818	27	ADR	33.6	-28.3	32.3	54	-21.7	-	-	-	-	217	174	V
5	* 8.199	35.17	PK-U	35.8	-23.9	47.07	-	-	74	-26.93	-	-	329	242	H
	* 8.203	24.5	ADR	35.8	-24	36.3	54	-17.7	-	-	-	-	329	242	H
6	* 8.283	35.69	PK-U	35.9	-23.7	47.89	-	-	74	-26.11	-	-	145	208	V
	* 8.282	24.51	ADR	35.9	-23.7	36.71	54	-17.29	-	-	-	-	145	208	V
1	1.876	41.53	PK-U	31.4	-31.1	41.83	-	-	-	-	68.2	-26.37	8	183	H
2	1.903	41.44	PK-U	31.5	-31.1	41.84	-	-	-	-	68.2	-26.36	97	116	H
3	2.44	43.63	PK-U	32.2	-30.4	45.43	-	-	-	-	68.2	-22.77	133	163	V

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

PK-U - U-NII: Maximum Peak

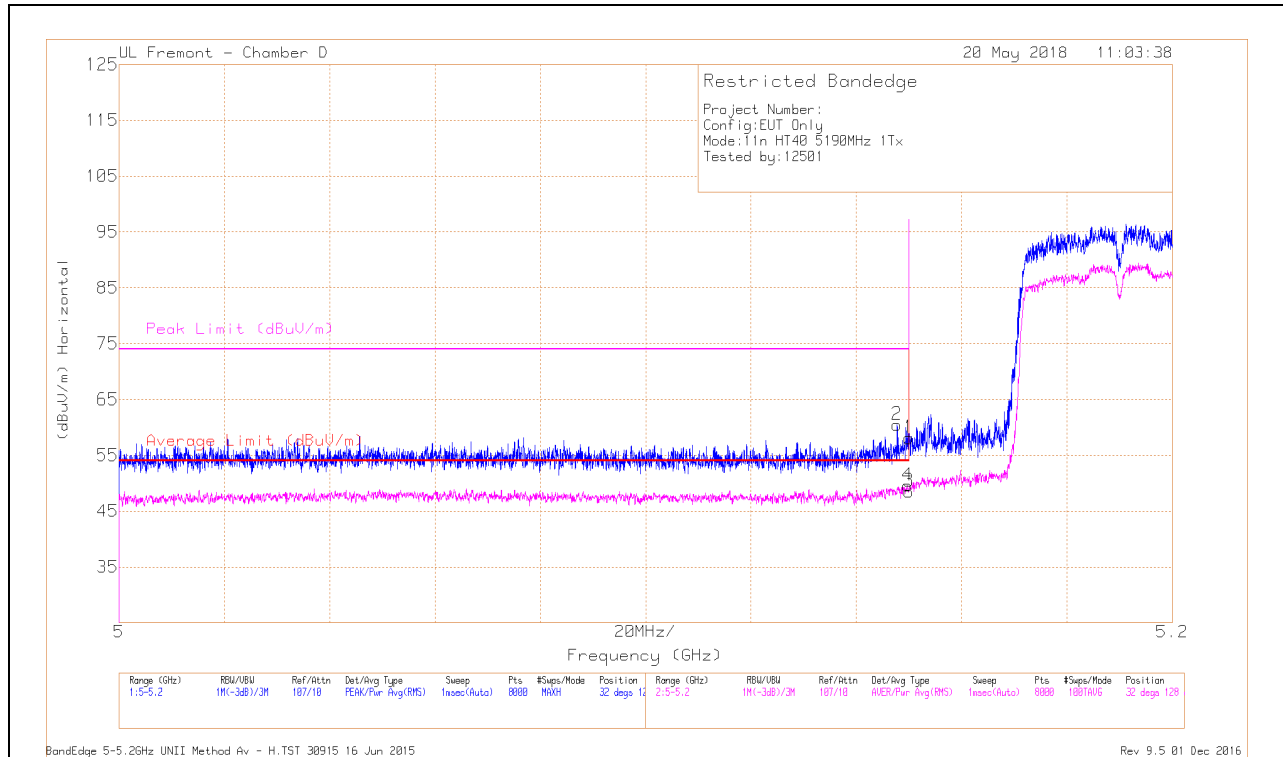
ADR - U-NII AD primary method, RMS average

9.1.2. TX ABOVE 1 GHz 802.11n HT40 MODE IN THE 5.2 GHz BAND

1TX Antenna 4

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



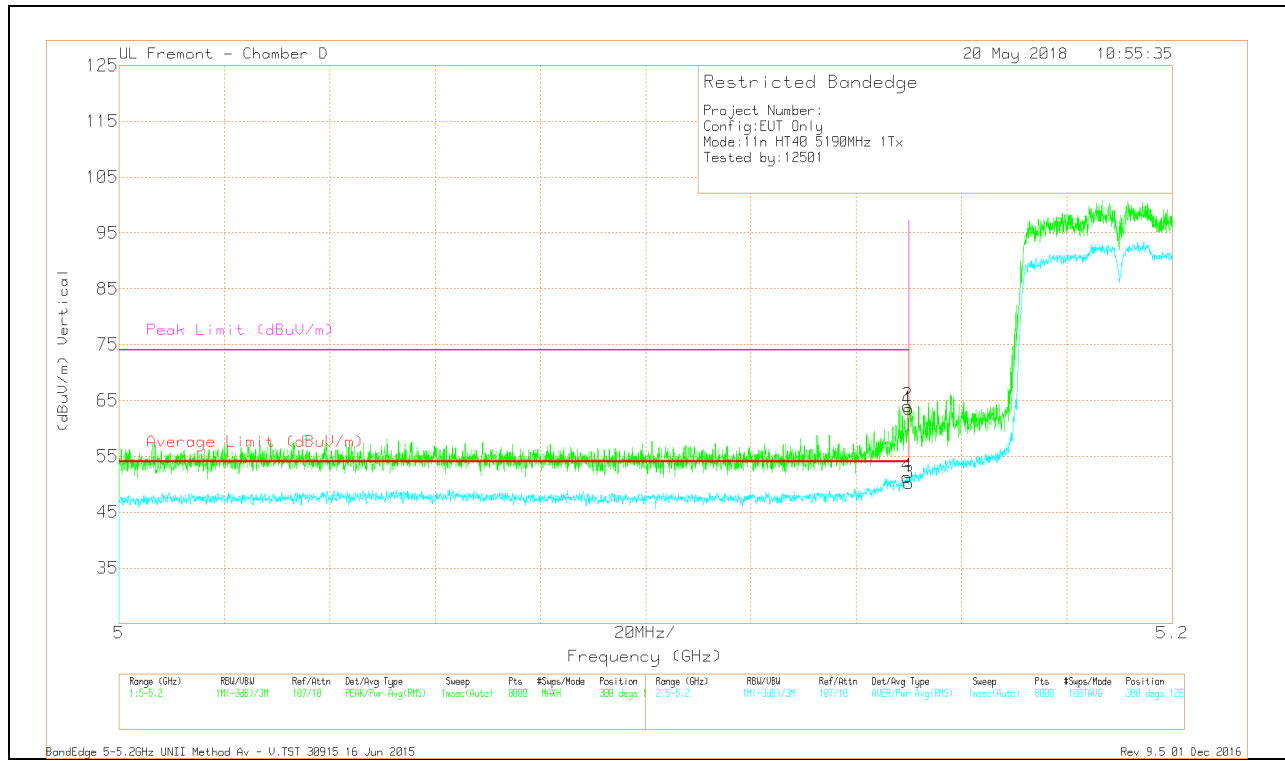
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.148	43.88	Pk	34.6	-18	0	60.48	-	-	74	-13.52	32	128	H
1	* 5.15	41.51	Pk	34.6	-18	0	58.11	-	-	74	-15.89	32	128	H
3	* 5.15	31.82	RMS	34.6	-18	.10	48.52	54	-5.48	-	-	32	128	H
4	* 5.15	32.87	RMS	34.6	-18	.10	49.57	54	-4.43	-	-	32	128	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 T136 (dB/m)	Ampl/Cou/Filt/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	46.9	PK	34.6	-18	0	63.5	-	-	74	-10.5	300	126	V
2	* 5.15	47.46	PK	34.6	-18	0	64.06	-	-	74	-9.94	300	126	V
3	* 5.15	33.47	RMS	34.6	-18	10	50.17	54	-3.83	-	-	300	126	V
4	* 5.15	34.64	RMS	34.6	-18	10	51.34	54	-2.66	-	-	300	126	V

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

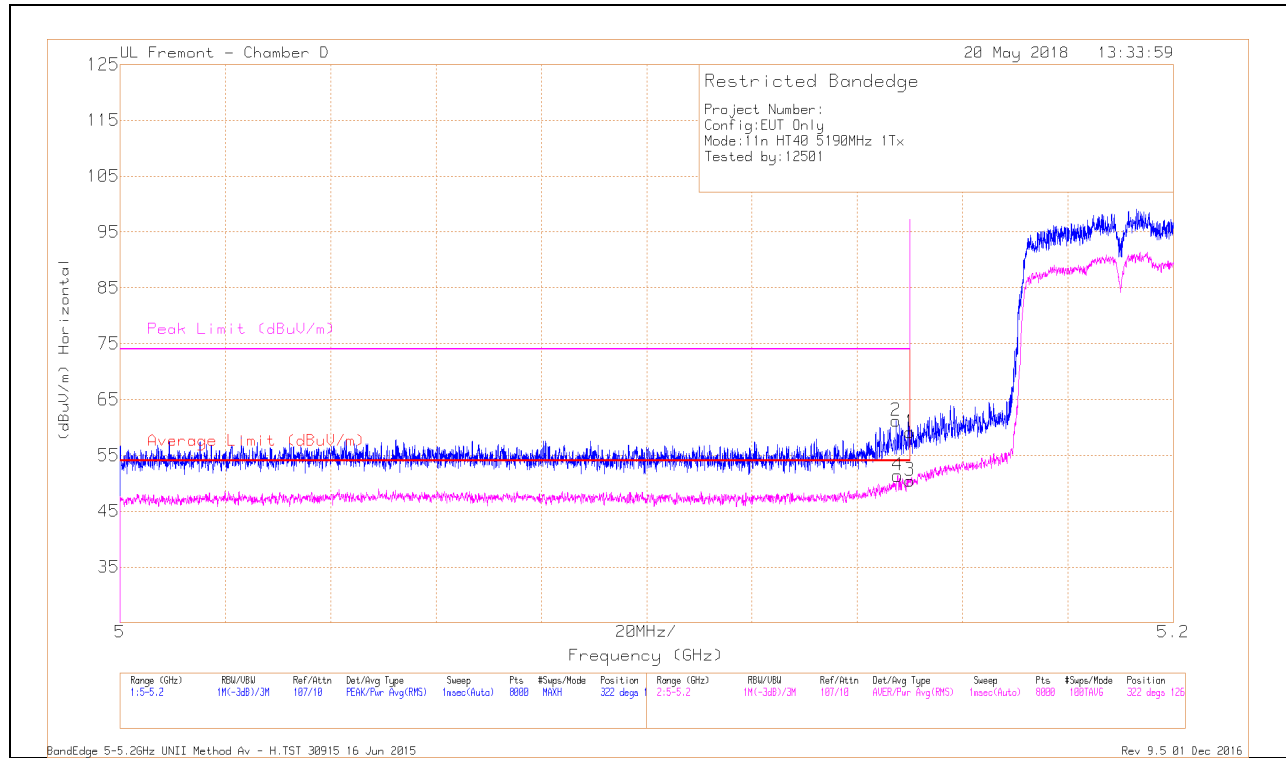
Pk - Peak detector

RMS - RMS detection

1TX ANTENNA 5

BANDEDGE (LOW CHANNEL)

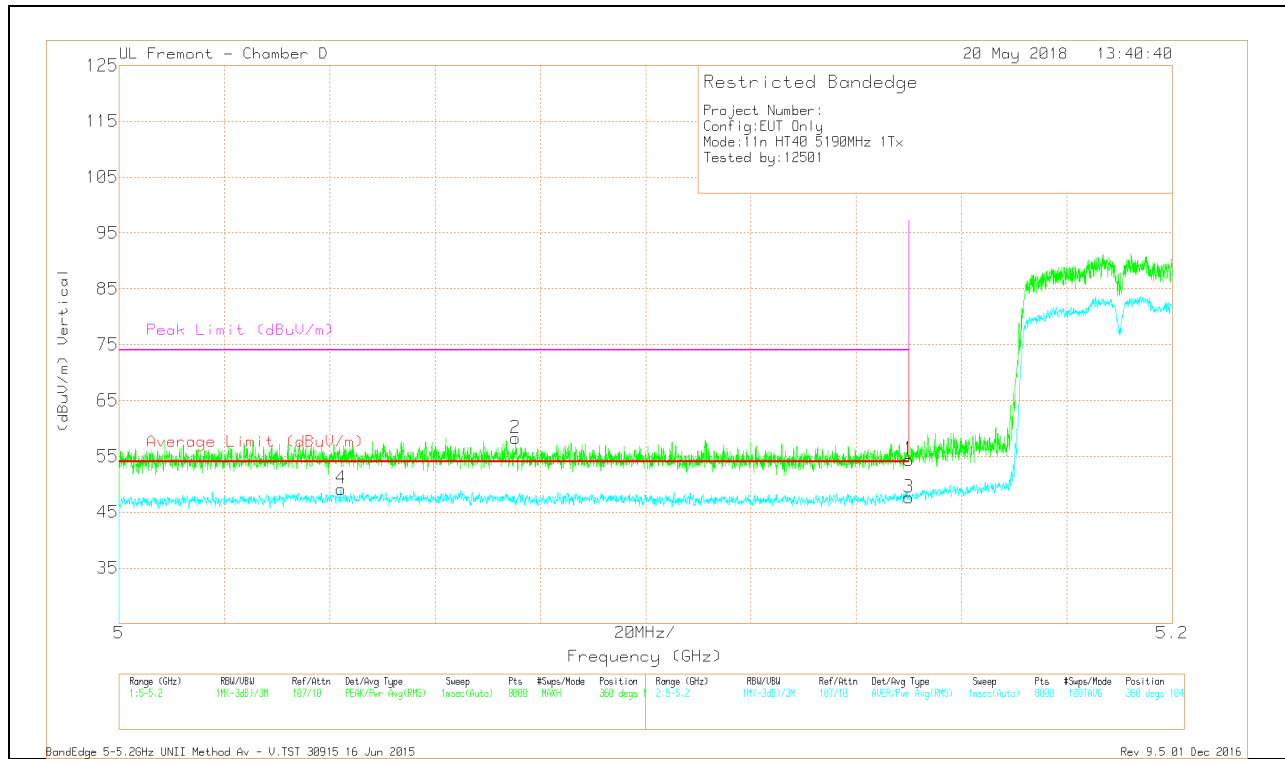
HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cb/Filter/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	42.49	Pk	34.6	-18	0	59.09	-	-	74	-14.91	322	126	H
2	* 5.147	44.58	Pk	34.6	-18	0	61.18	-	-	74	-12.82	322	126	H
3	* 5.15	33.79	RMS	34.6	-18	10	50.49	54	-3.51	-	-	322	126	H
4	* 5.148	34.68	RMS	34.6	-18	10	51.38	54	-2.62	-	-	322	126	H

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

VERTICAL RESULT

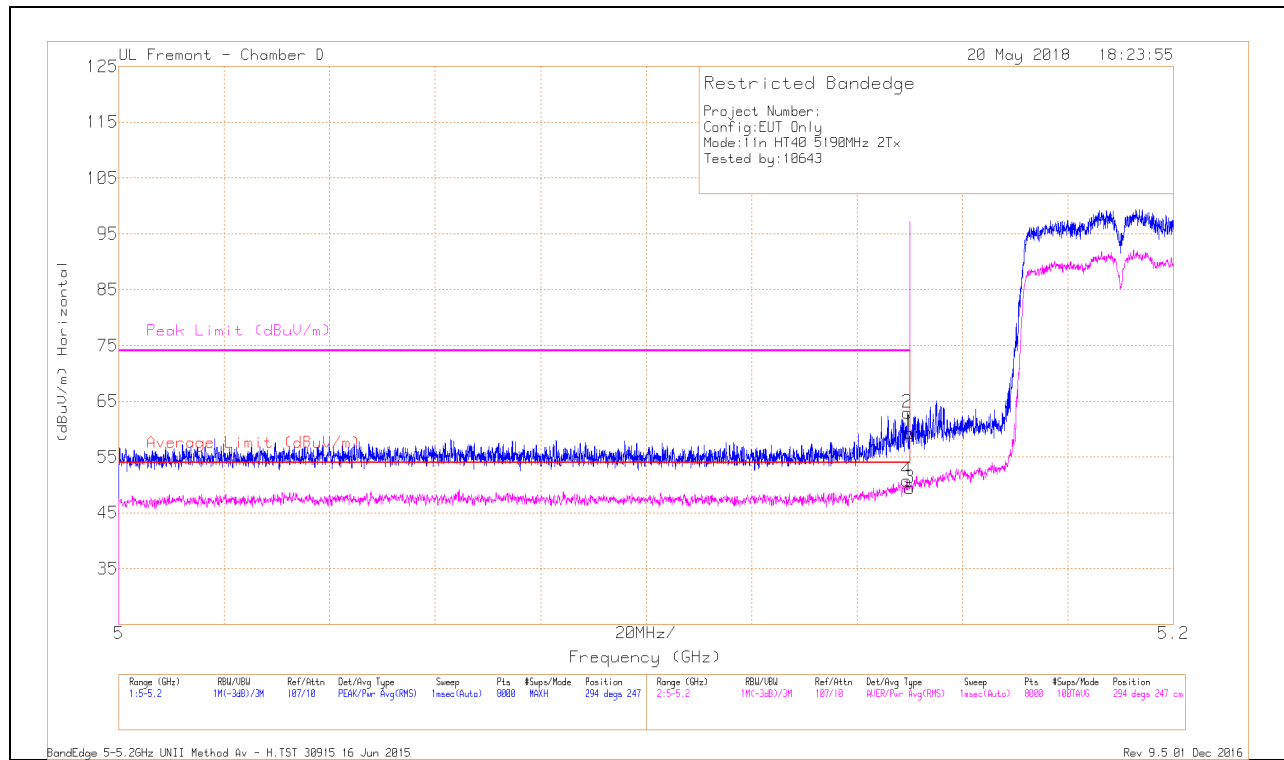


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
4	*5.042	32.27	RMS	34.4	-17.6	-10	49.17	54	-4.83	-	-	360	104	V
2	*5.075	41.46	Pk	34.5	-17.7	0	58.26	-	-	74	-15.74	360	104	V
1	*5.15	37.8	Pk	34.6	-18	0	54.4	-	-	74	-19.6	360	104	V
3	*5.15	30.95	RMS	34.6	-18	-10	47.65	54	-6.35	-	-	360	104	V

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

Pk - Peak detector

RMS - RMS detection

2TX Antenna 4 + ANTENNA 5 CDD MODE**BANDEDGE (LOW CHANNEL)****HORIZONTAL RESULT**

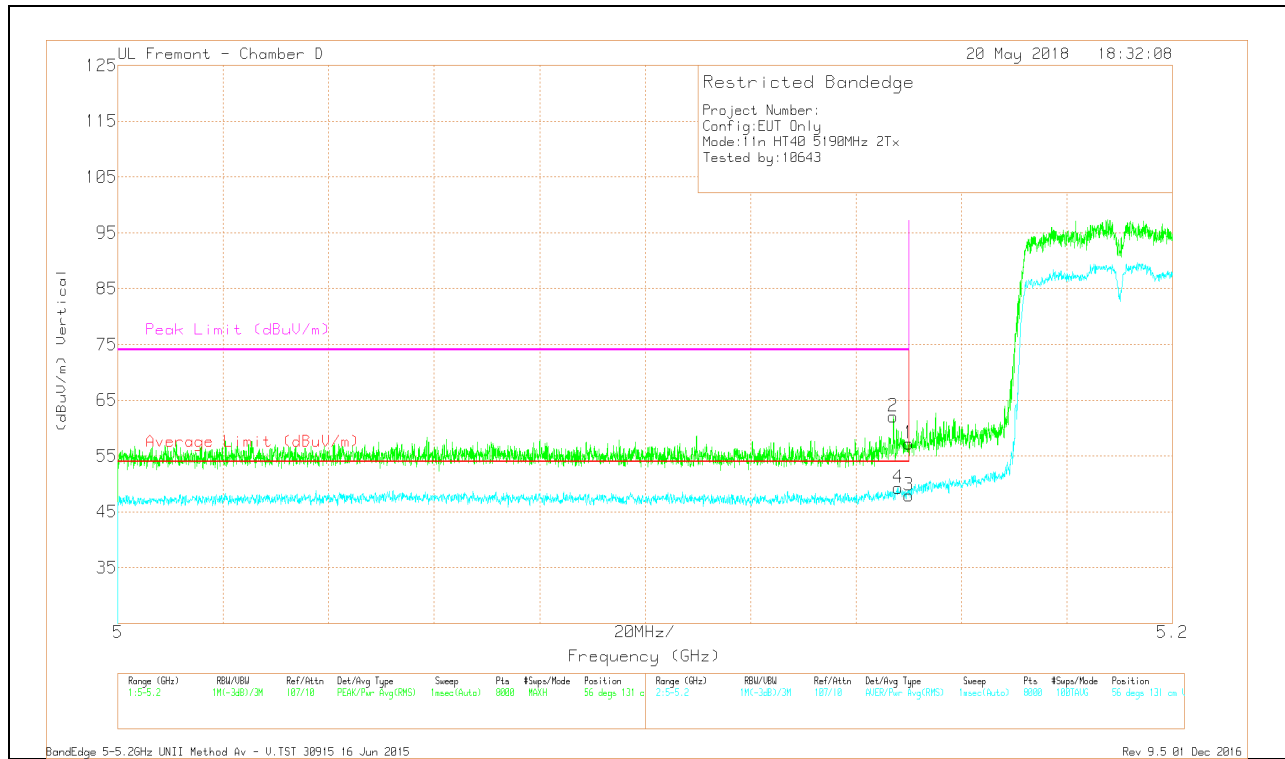
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Ampl/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	42.8	PK	34.6	-18	0	59.4	-	-	74	-14.6	294	247	H
2	* 5.15	46.41	PK	34.6	-18	0	63.01	-	-	74	-10.99	294	247	H
3	* 5.15	32.75	RMS	34.6	-18	10	49.45	54	-4.55	-	-	294	247	H
4	* 5.149	34.12	RMS	34.6	-18	10	50.82	54	-3.18	-	-	294	247	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 T136 (dBm)	Ampl/Cable/Fit/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	40.59	Pk	34.6	-18	0	57.19	-	-	74	-16.81	56	131	V
2	* 5.147	45.47	Pk	34.6	-18	0	62.07	-	-	74	-11.93	56	131	V
3	* 5.15	31.28	RMS	34.6	-18	10	47.98	54	-6.02	-	-	56	131	V
4	* 5.148	32.65	RMS	34.6	-18	10	49.35	54	-4.65	-	-	56	131	V

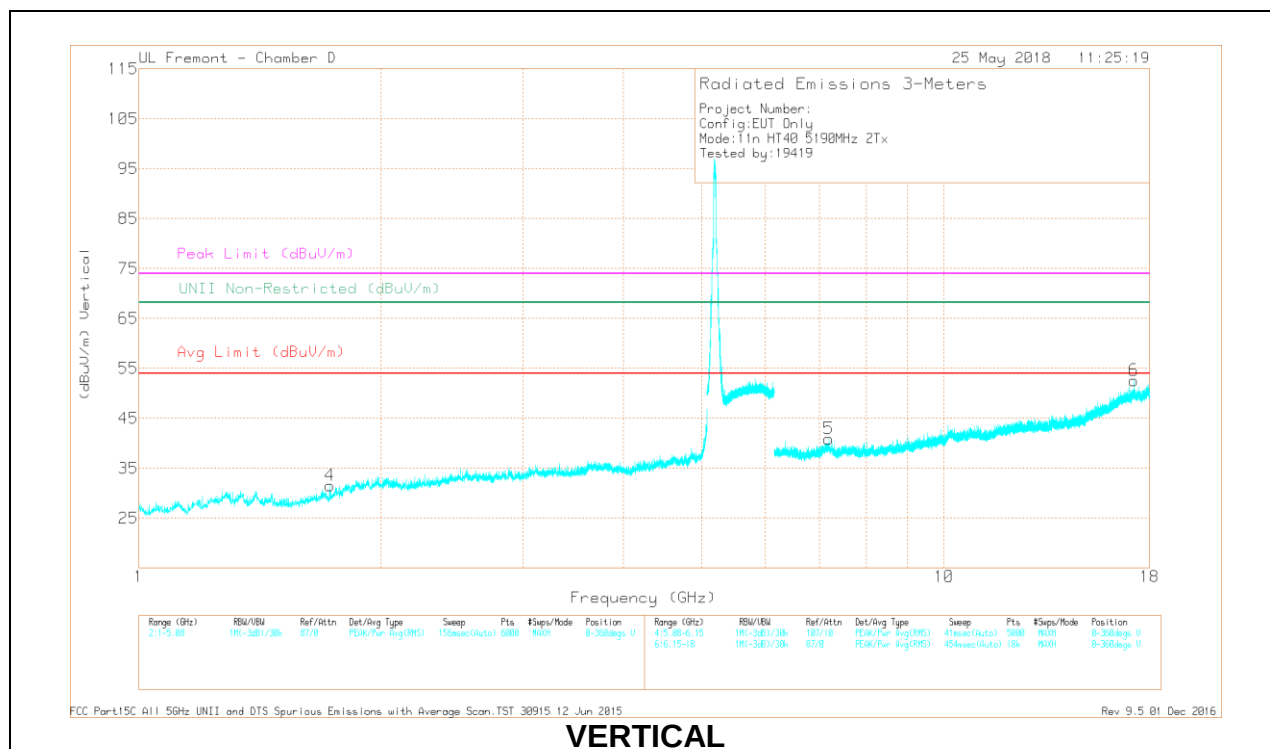
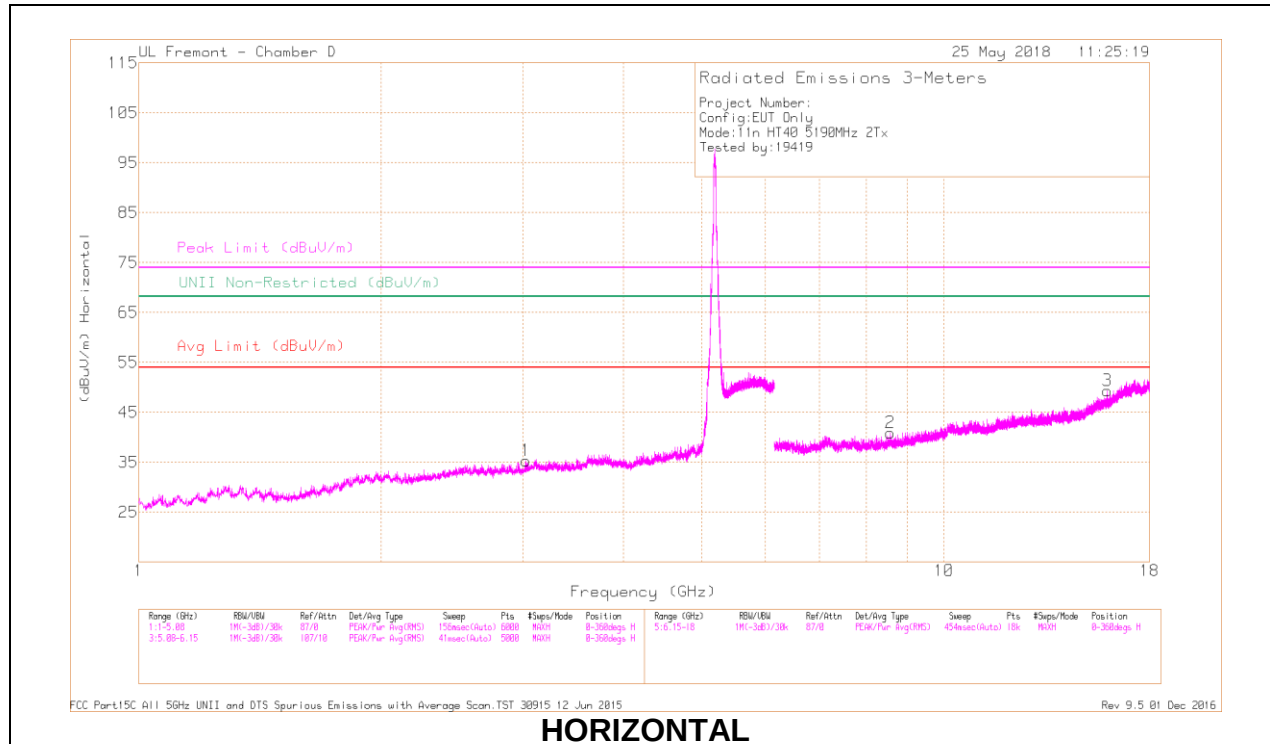
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

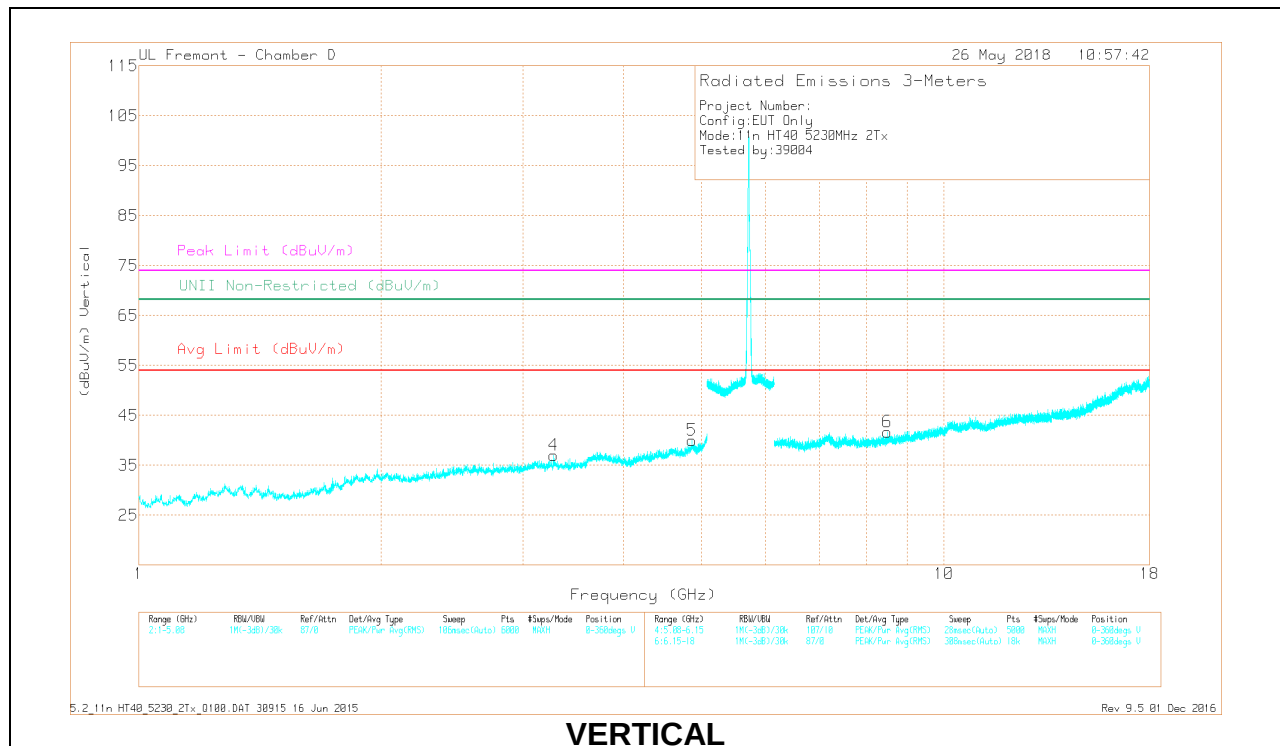
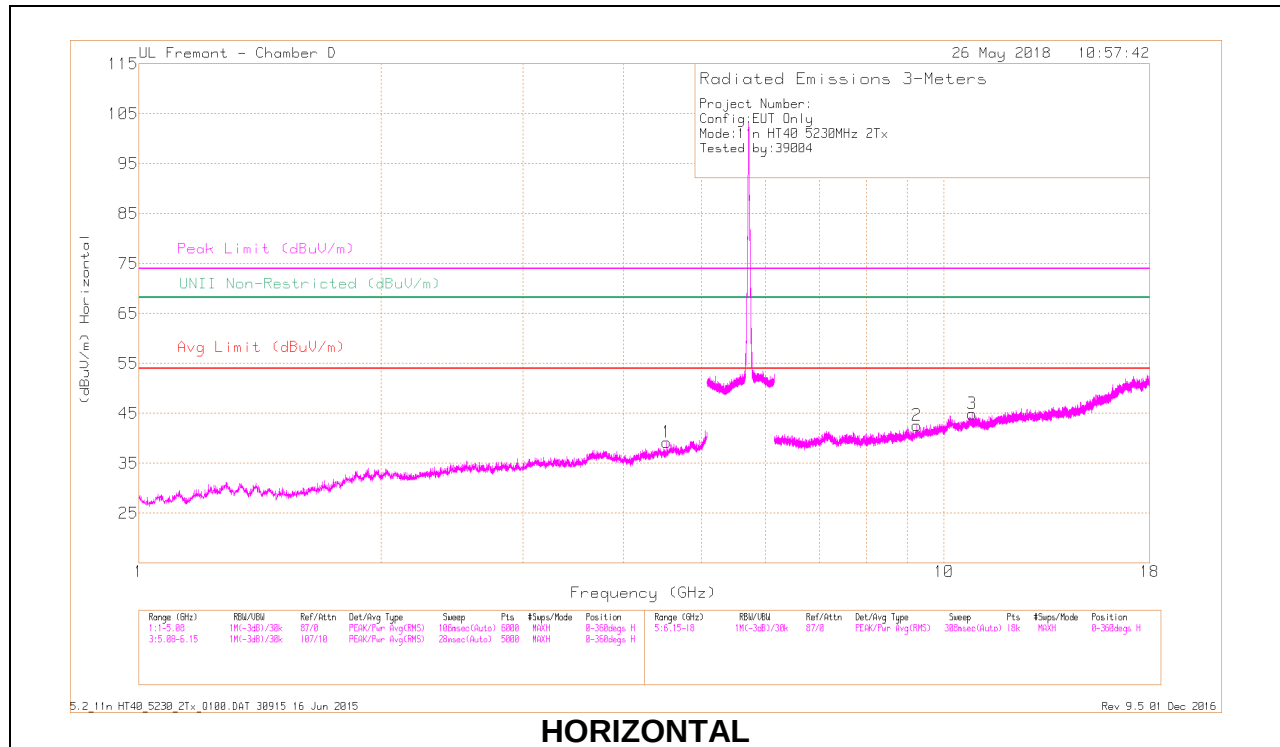
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cbl/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
3	* 15.951	33.19	PK-U	41.1	-19.6	0	54.69	-	-	74	-19.31	-	-	303	316	H
	* 15.95	20.85	ADR	41.1	-19.6	.10	42.45	54	-11.55	-	-	-	-	303	316	H
4	1.725	38.18	PK-U	29.3	-30.8	0	36.68	-	-	-	-	68.2	-31.52	213	173	V
1	3.026	38.2	PK-U	32.9	-29.8	0	41.3	-	-	-	-	68.2	-26.9	213	189	H
5	7.189	33.88	PK-U	36.3	-23.3	0	46.88	-	-	-	-	68.2	-21.32	165	156	V
2	8.576	32.55	PK-U	35.9	-22.2	0	46.25	-	-	-	-	68.2	-21.95	300	318	H
6	17.215	31.56	PK-U	41.7	-16.1	0	57.16	-	-	-	-	68.2	-11.04	30	227	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

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	AmpCalFtrPad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unli Non-Restricted (dBuV/m)	PK Margin (dB)	Altitude (Degs)	Height (cm)	Polarity
1	* 4.522	38.31	PK-U	34.5	-27.8	0	45.01	-	-	74	-28.99	-	-	222	178	H
	* 4.523	26.35	ADR	34.5	-27.8	10	33.15	54	-20.85	-	-	-	-	222	178	H
5	* 4.864	36.22	PK-U	34.4	-25	0	45.62	-	-	74	-28.38	-	-	240	211	V
	* 4.862	25.02	ADR	34.5	-25.1	10	34.52	54	-19.48	-	-	-	-	240	211	V
3	* 10.834	33.11	PK-U	37.7	-20.2	0	50.61	-	-	74	-23.39	-	-	210	117	H
	* 10.838	22.28	ADR	37.7	-20.3	10	38.78	54	-14.22	-	-	-	-	210	117	H
4	3.276	38.9	PK-U	33.3	-29.1	0	43.1	-	-	-	-	68.2	-25.1	176	299	V
6	8.508	35.27	PK-U	35.9	-23.4	0	47.77	-	-	-	-	68.2	-20.43	144	127	V
2	9.252	33.07	PK-U	36.4	-21	0	48.47	-	-	-	-	68.2	-19.73	162	150	H

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

PK-U - U-NII: Maximum Peak

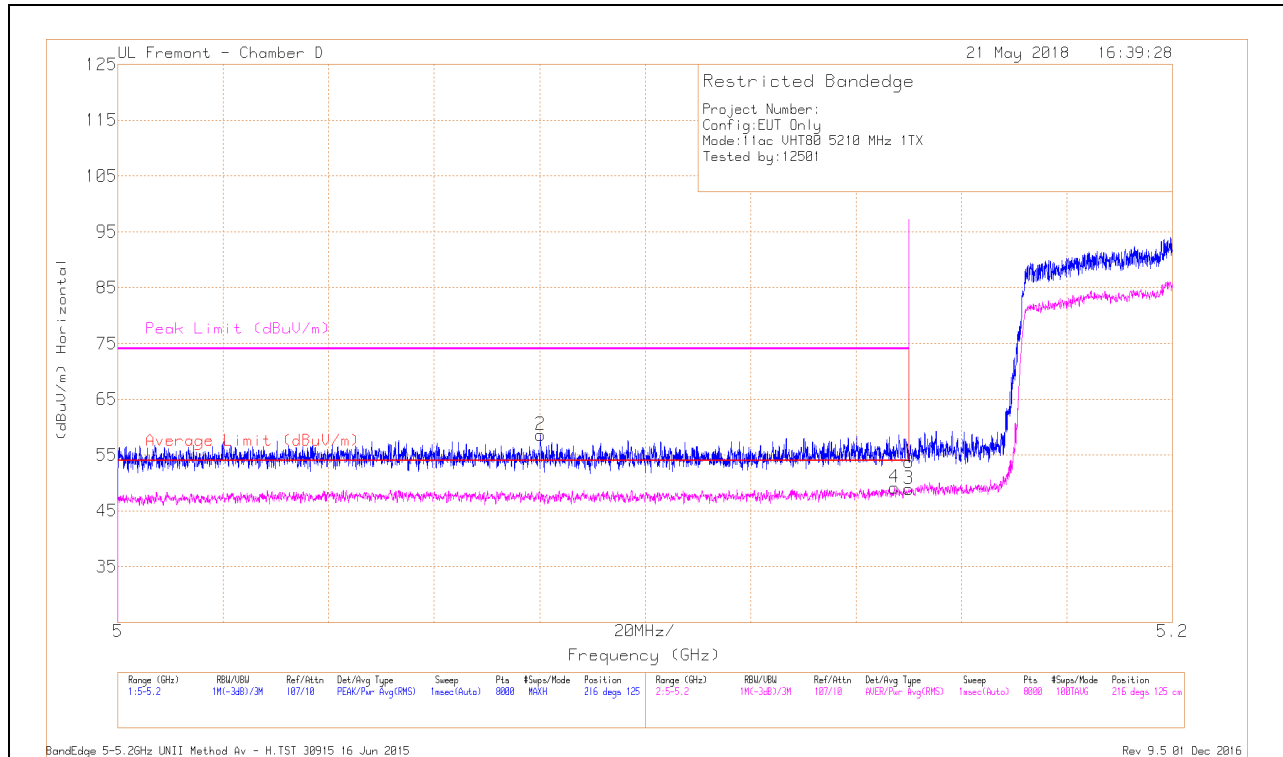
ADR - U-NII AD primary method, RMS average

9.1.3. TX ABOVE 1 GHz 802.11ac VHT80 MODE IN THE 5.2 GHz BAND

1TX Antenna 4

BANDEDGE (MID CHANNEL)

HORIZONTAL RESULT



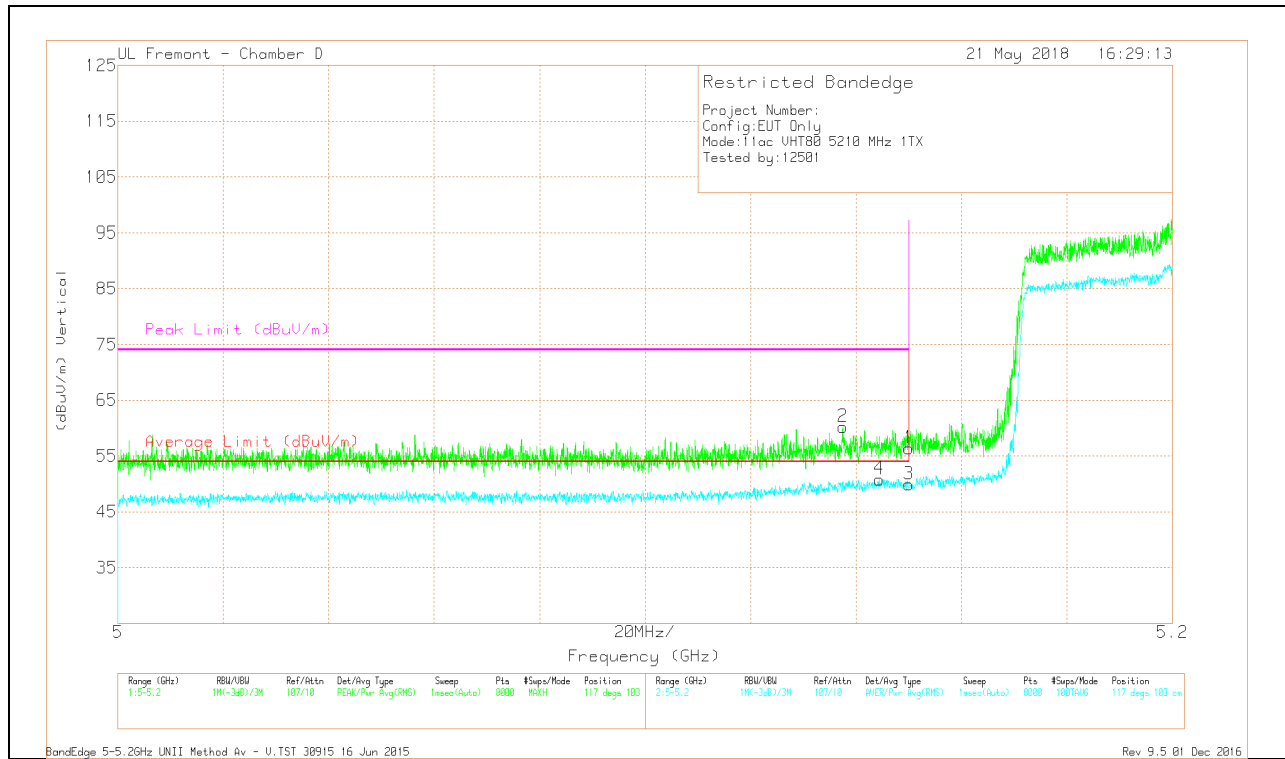
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Ch/IFtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.08	42.06	Pk	34.5	-17.9	0	58.66	-	-	74	-15.34	216	125	H
4	* 5.147	32.35	RMS	34.6	-18	19	49.14	54	-4.86	-	-	216	125	H
1	* 5.15	37.13	Pk	34.6	-18	0	53.73	-	-	74	-20.27	216	125	H
3	* 5.15	32.11	RMS	34.6	-18	19	48.90	54	-5.10	-	-	216	125	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 T136 (dBm)	Ampl/Cou/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	*5.137	43.67	Pk	34.6	-18	0	60.27	-	-	74	-13.73	117	103	V
4	*5.144	34.05	RMS	34.6	-18	19	50.84	54	-3.16	-	-	117	103	V
1	*5.15	39.8	Pk	34.6	-18	0	56.4	-	-	74	-17.6	117	103	V
3	*5.15	33.08	RMS	34.6	-18	19	49.87	54	-4.13	-	-	117	103	V

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

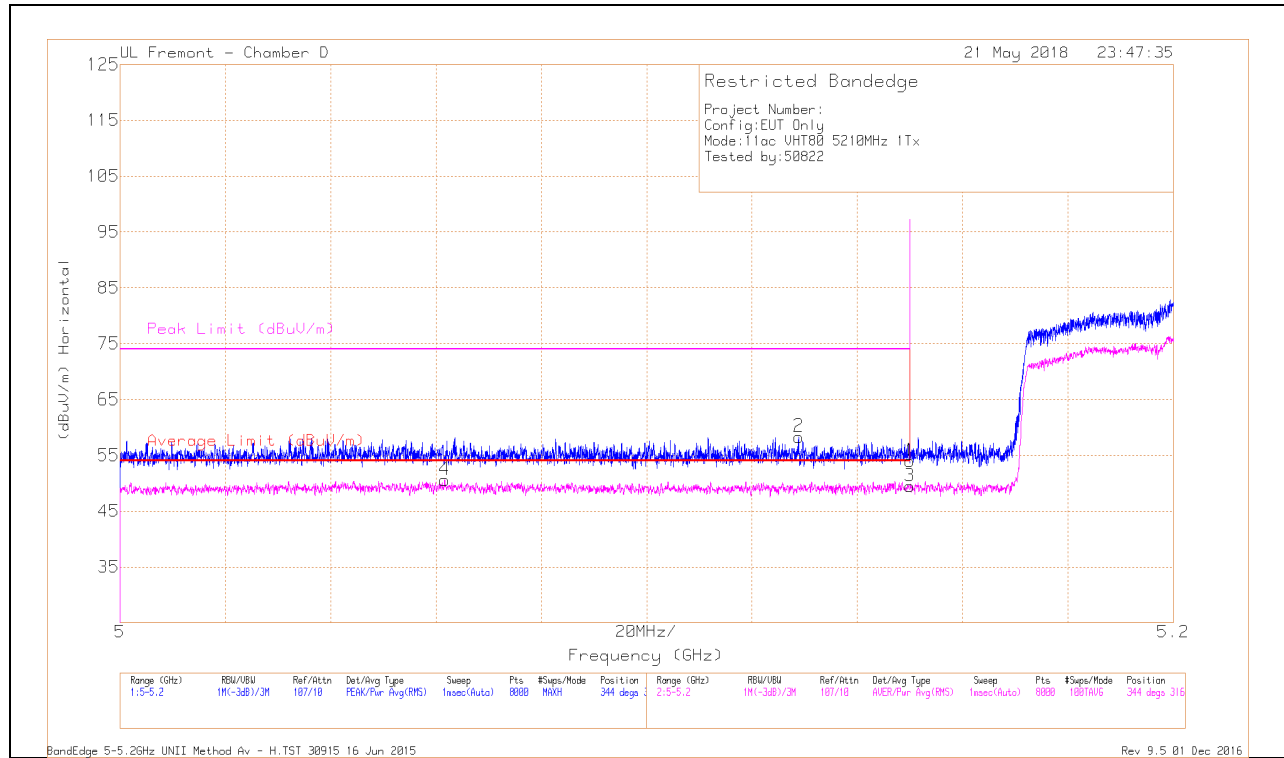
Pk - Peak detector

RMS - RMS detection

1TX ANTENNA 5

BANDEDGE (MID CHANNEL)

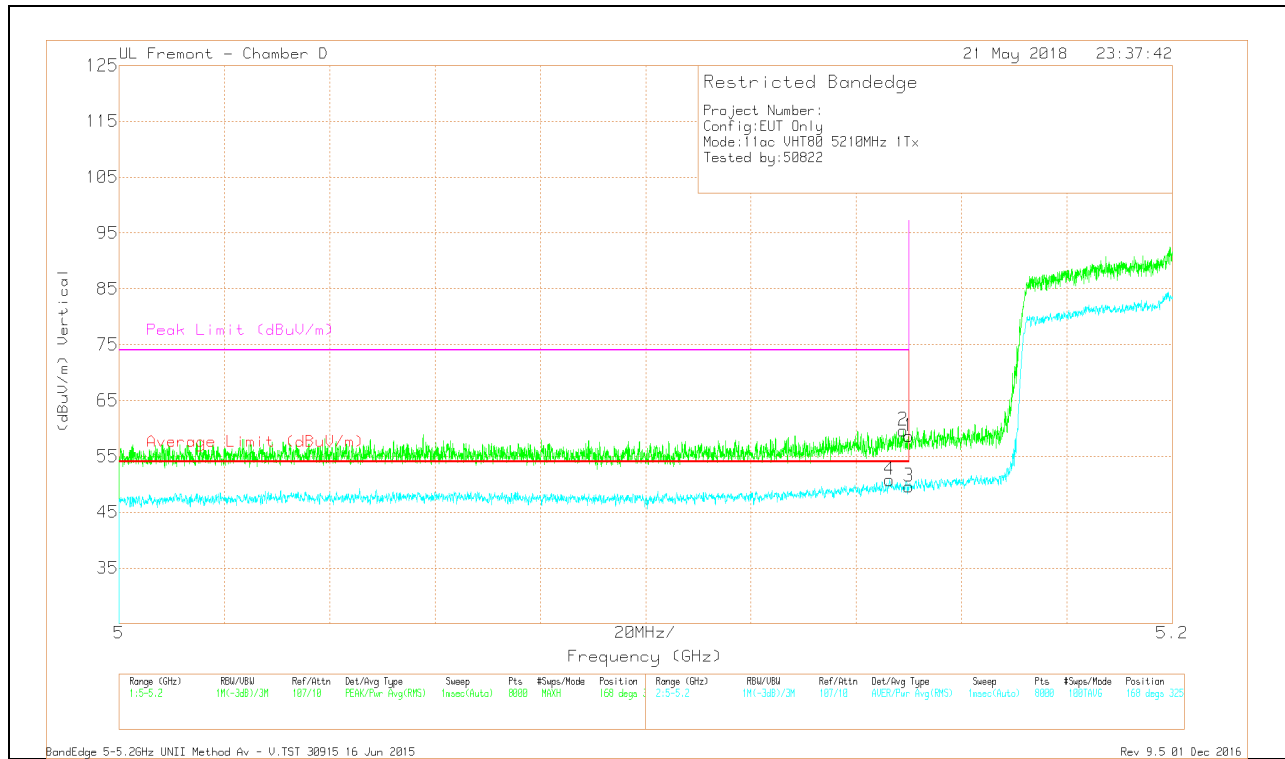
HORIZONTAL RESULT



Marker	Frequenc y (GHz)	Meter Reading (dBuV)	Det	AF T136 (dBm)	Amp/Cb/IFtr/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
4	* 5.062	31.96	RMS	34.5	-17.7	19	48.95	54	-5.05	-	-	344	316	H
2	* 5.129	41.72	Pk	34.6	-18	0	58.32	-	-	74	-15.68	344	316	H
1	* 5.15	37.37	Pk	34.6	-18	0	53.97	-	-	74	-20.03	344	316	H
3	* 5.15	31.02	RMS	34.6	-18	19	47.81	54	-6.19	-	-	344	316	H

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

VERTICAL RESULT

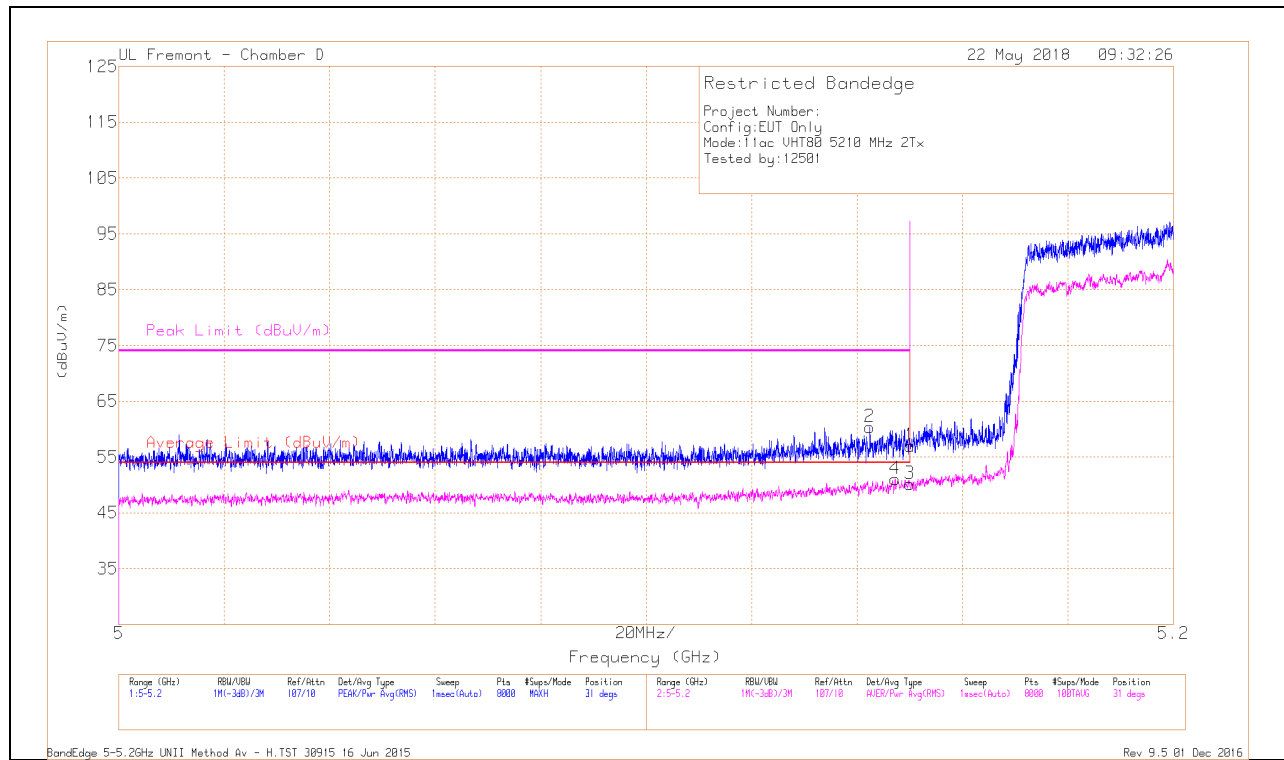


Marker	Frequency (GHz)	Meter Reading (dBUV)	Det	AF T136 (dBm)	Ampl/Cable/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBUV/m)	Average Limit (dBUV/m)	Margin (dB)	Peak Limit (dBUV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.146	33.99	RMS	34.6	-18	19	50.78	54	-3.22	-	-	168	325	V
2	* 5.149	43.06	Pk	34.6	-18	0	59.66	-	-	74	-14.34	168	325	V
1	* 5.15	42.03	Pk	34.6	-18	0	58.63	-	-	74	-15.37	168	325	V
3	* 5.15	32.82	RMS	34.6	-18	19	49.61	54	-4.39	-	-	168	325	V

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

Pk - Peak detector

RMS - RMS detection

2TX Antenna 4 + ANTENNA 5 CDD MODE**BANDEDGE (MID CHANNEL)****HORIZONTAL RESULT**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Amp/Cbl/Filtr/ Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)
1	* 5.15	40.44	Pk	34.6	-18	0	57.04	-	-	74	-16.96	31
2	* 5.142	43.72	Pk	34.6	-18	0	60.32	-	-	74	-13.68	31
3	* 5.15	33.34	RMS	34.6	-18	.19	50.13	54	-3.87	-	-	31
4	* 5.147	34.26	RMS	34.6	-18	.19	51.05	54	-2.95	-	-	31

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

Pk - Peak detector

RMS - RMS detection