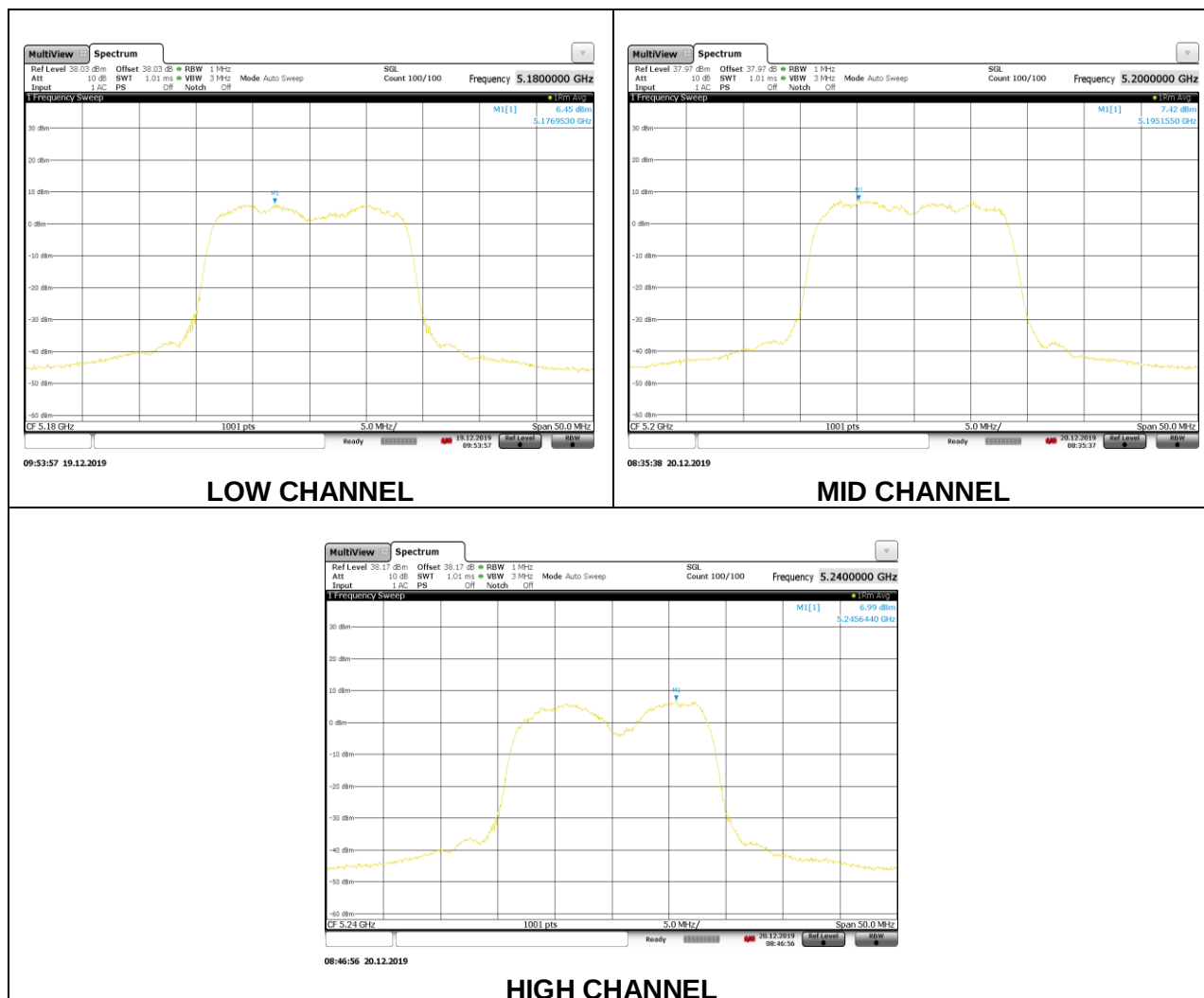




8.5.2. 802.11n HT20 MODE IN THE 5.2 GHz BAND

FCC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

Antenna Gain and Limits

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm/ 1MHz)
Low	5180	6.41	9.35	23.59	7.65
Mid	5200	6.41	9.35	23.59	7.65
High	5240	6.41	9.35	23.59	7.65

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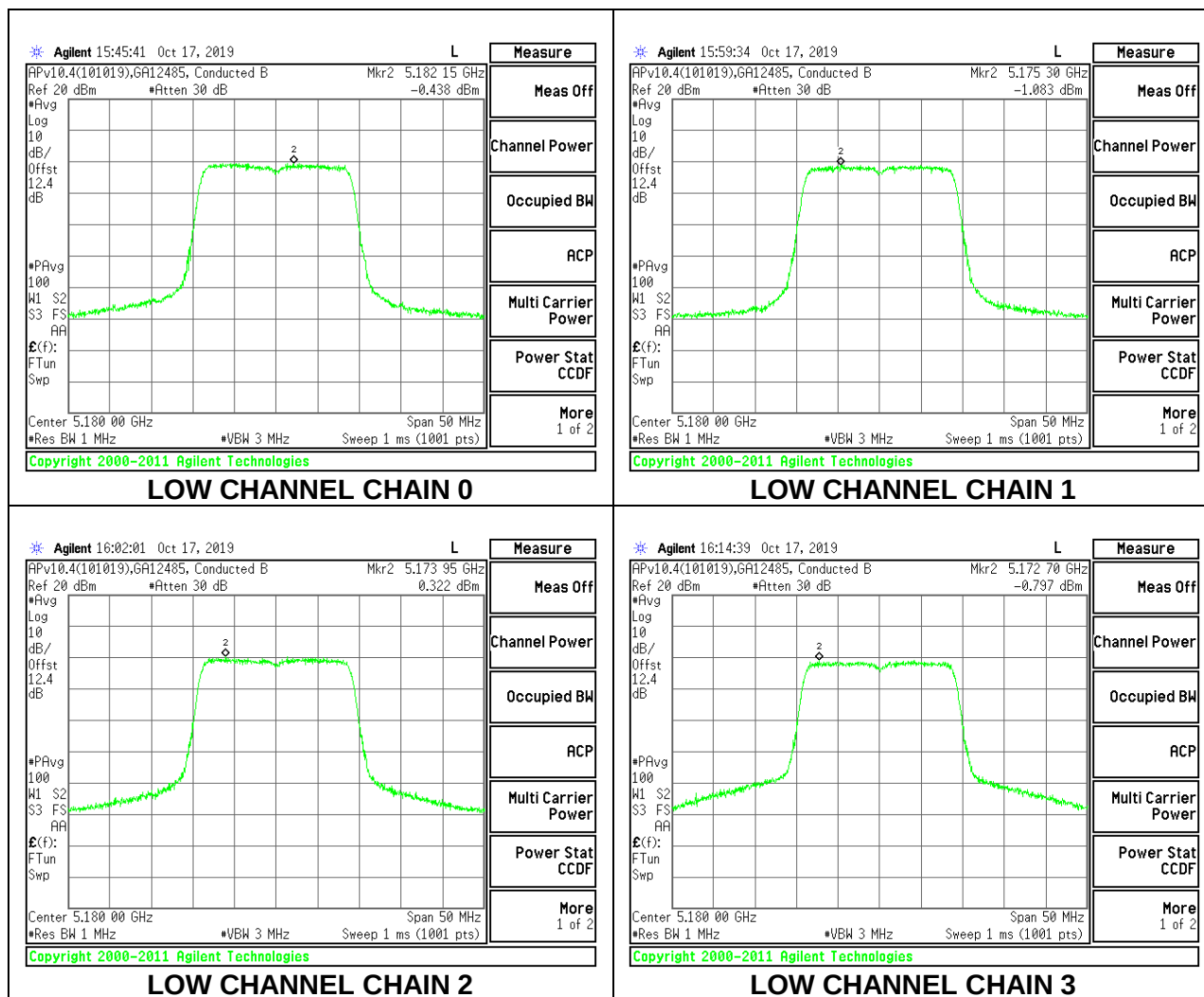
Output Power Results

Channel	Frequency (MHz)	Antenna 0 Meas Power (dBm)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	10.71	10.31	10.57	10.17	16.47	23.59	-7.12
Mid	5200	11.17	10.83	11.04	10.88	17.00	23.59	-6.59
High	5240	11.20	10.87	11.11	10.67	16.99	23.59	-6.60

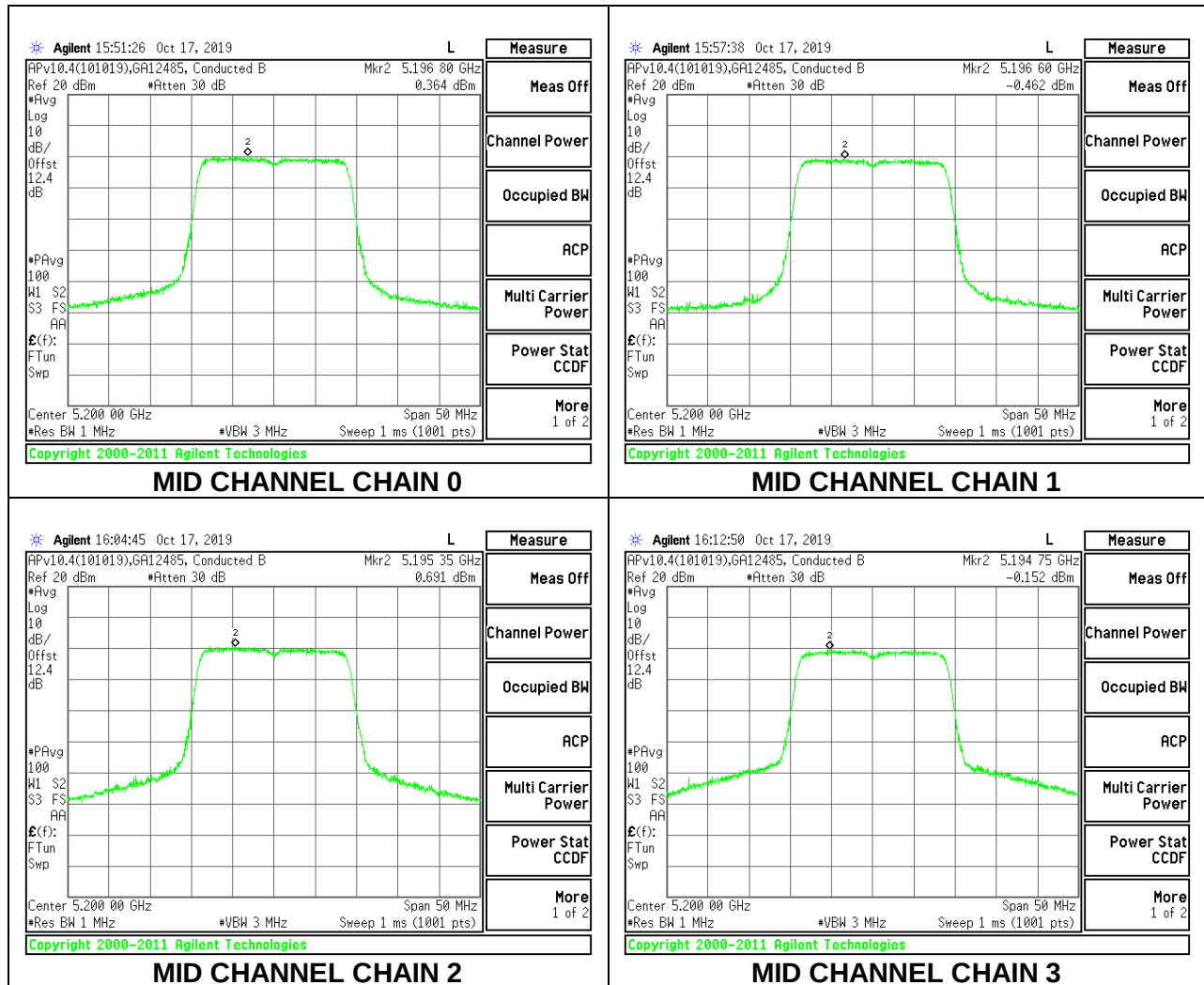
PSD Results

Channel	Frequency (MHz)	Antenna 0 Meas PSD (dBm/ 1MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	-0.438	-1.083	0.322	-0.797	5.86	7.65	-1.79
Mid	5200	0.364	-0.462	0.691	-0.152	6.46	7.65	-1.19
High	5240	0.326	-0.310	0.605	-0.703	6.34	7.65	-1.31

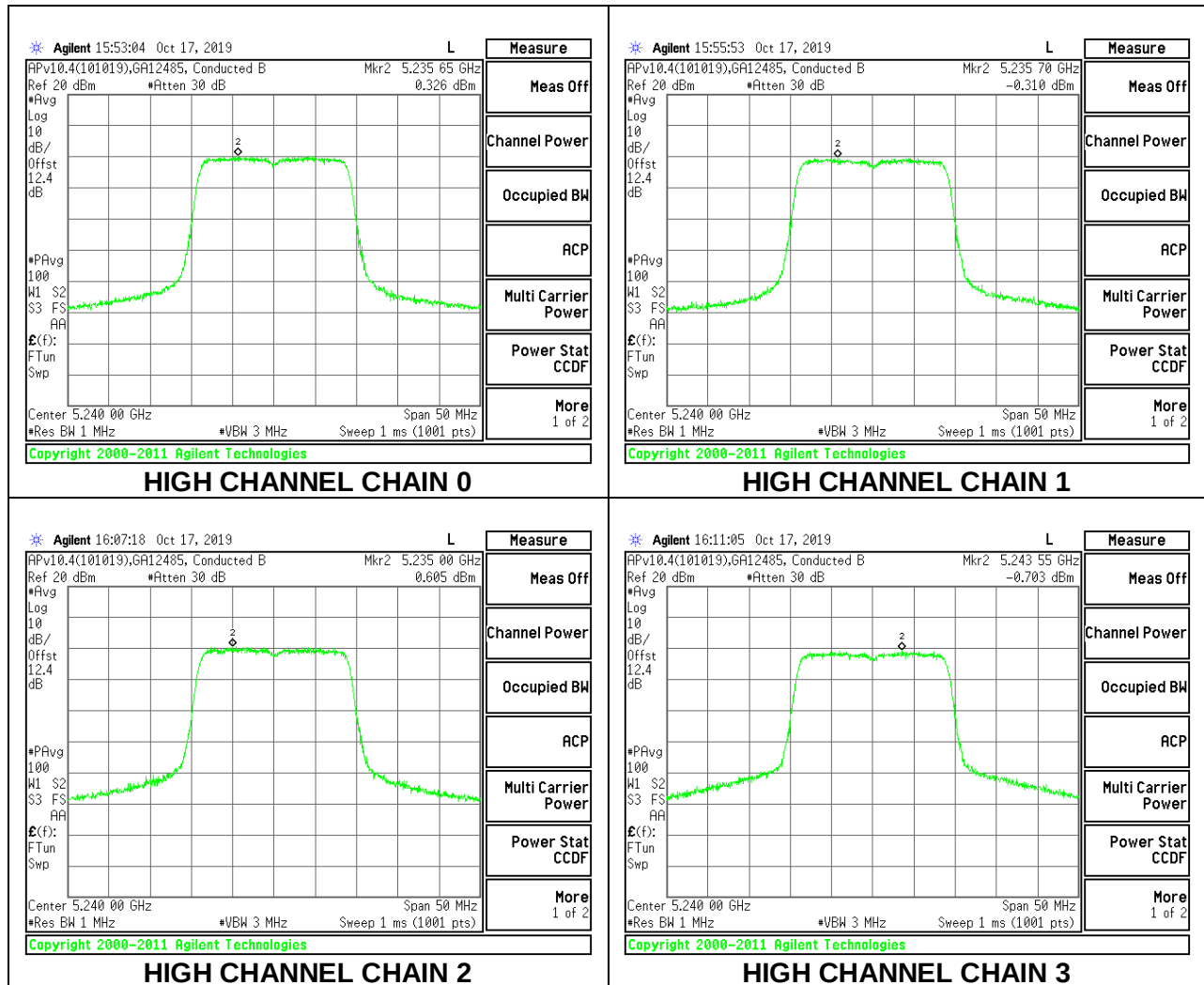
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



IC

(Note: IC PSD was tested by radiated method)

Test Engineer ID:	20756 CW
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Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)
Low	5180	17.6386
Mid	5200	17.7028
High	5240	17.6922

Limits

Channel	Frequency (MHz)	ISED EIRP Limit (dBm)	ISED eirp PSD Limit (dBm/ 1MHz)
Low	5180	22.46	10.00
Mid	5200	22.48	10.00
High	5240	22.48	10.00

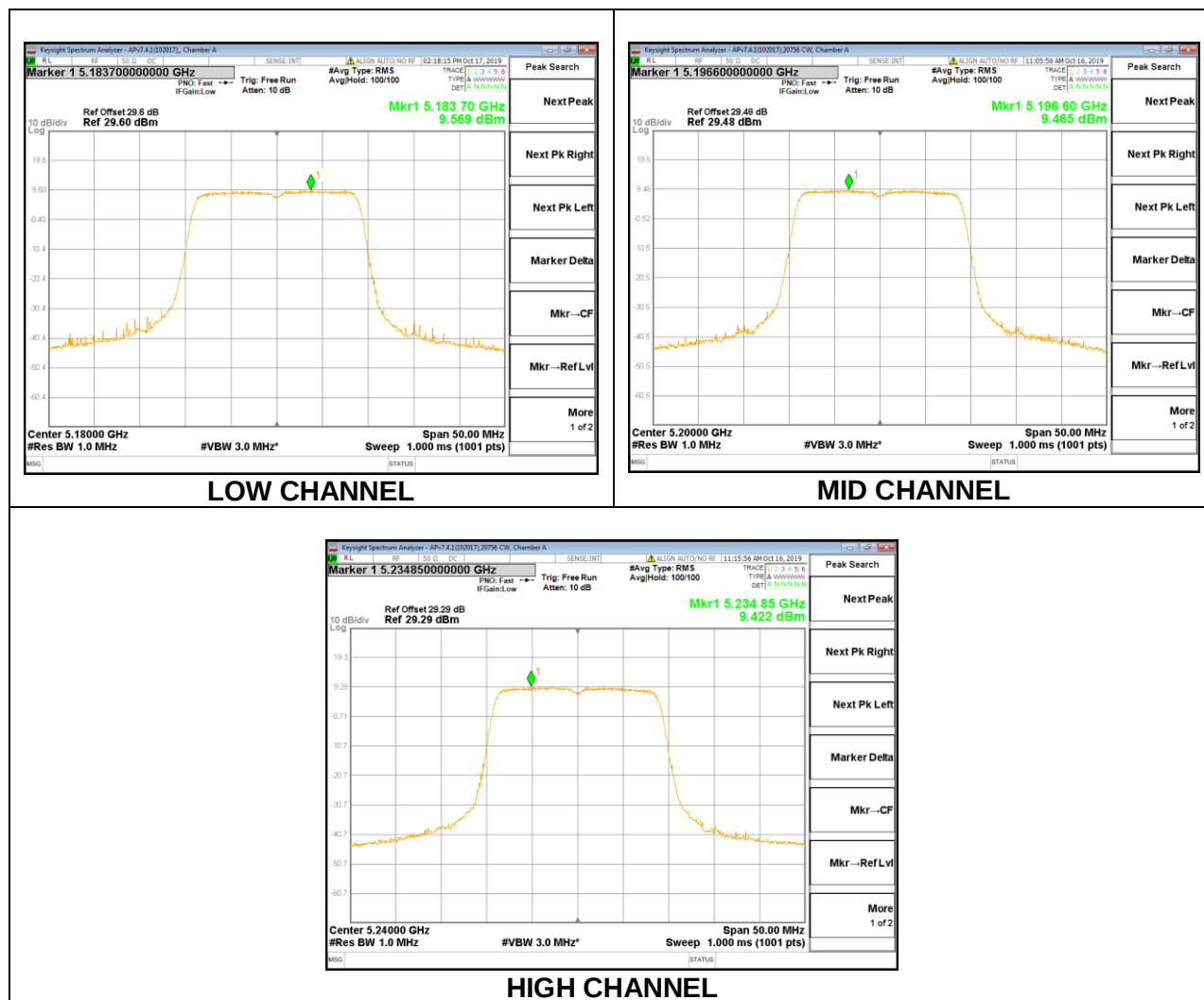
Duty Cycle CF (dB)	0.31	Included in Calculations of Corr'd PSD
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Output Power Results

Channel	Frequency (MHz)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5180	20.04	22.46	-2.42
Mid	5200	19.64	22.48	-2.85
High	5240	20.06	22.48	-2.41

PSD Results

Channel	Frequency (MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5180	9.569	10.00	-0.43
Mid	5200	9.465	10.00	-0.54
High	5240	9.422	10.00	-0.58



8.5.3. 802.11a MODE IN THE 5.3 GHz BAND

FCC + IC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSP (dBi)
Low	5260	20.25	16.496	6.66	9.66
Mid	5300	20.15	16.452	6.66	9.66
High	5320	20.15	16.494	6.66	9.66

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSP Limit (dBm)	IC PPSP Limit (dBm)	PPSP Limit (dBm)
Low	5260	23.34	23.17	29.17	22.51	7.34	11.00	7.34
Mid	5300	23.34	23.16	29.16	22.50	7.34	11.00	7.34
High	5320	23.34	23.17	29.17	22.51	7.34	11.00	7.34

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PPSP
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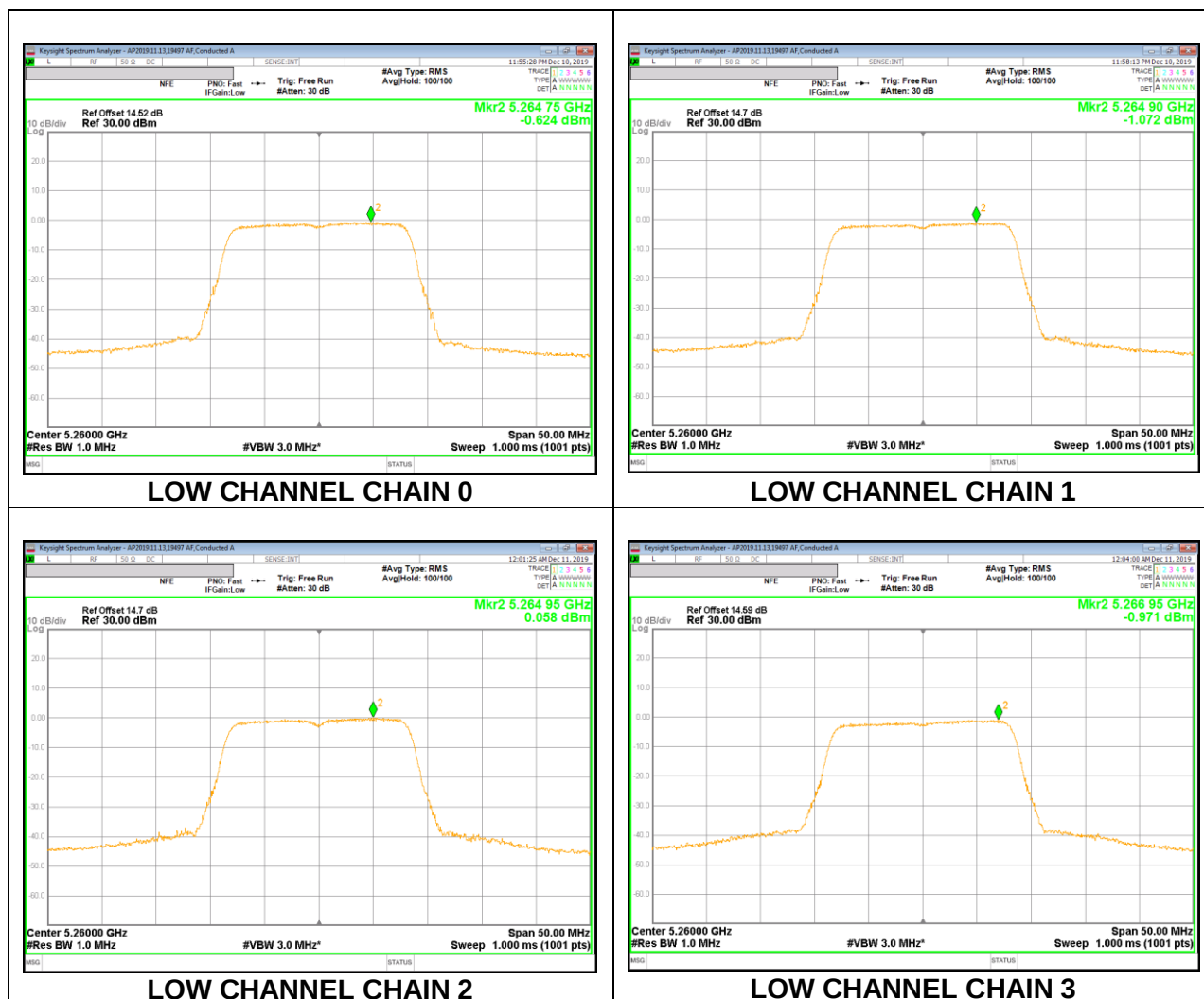
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.60	11.20	12.30	11.39	17.66	22.51	-4.85
Mid	5300	12.04	11.66	12.32	11.86	18.00	22.50	-4.50
High	5320	12.17	11.95	12.38	11.93	18.13	22.51	-4.38

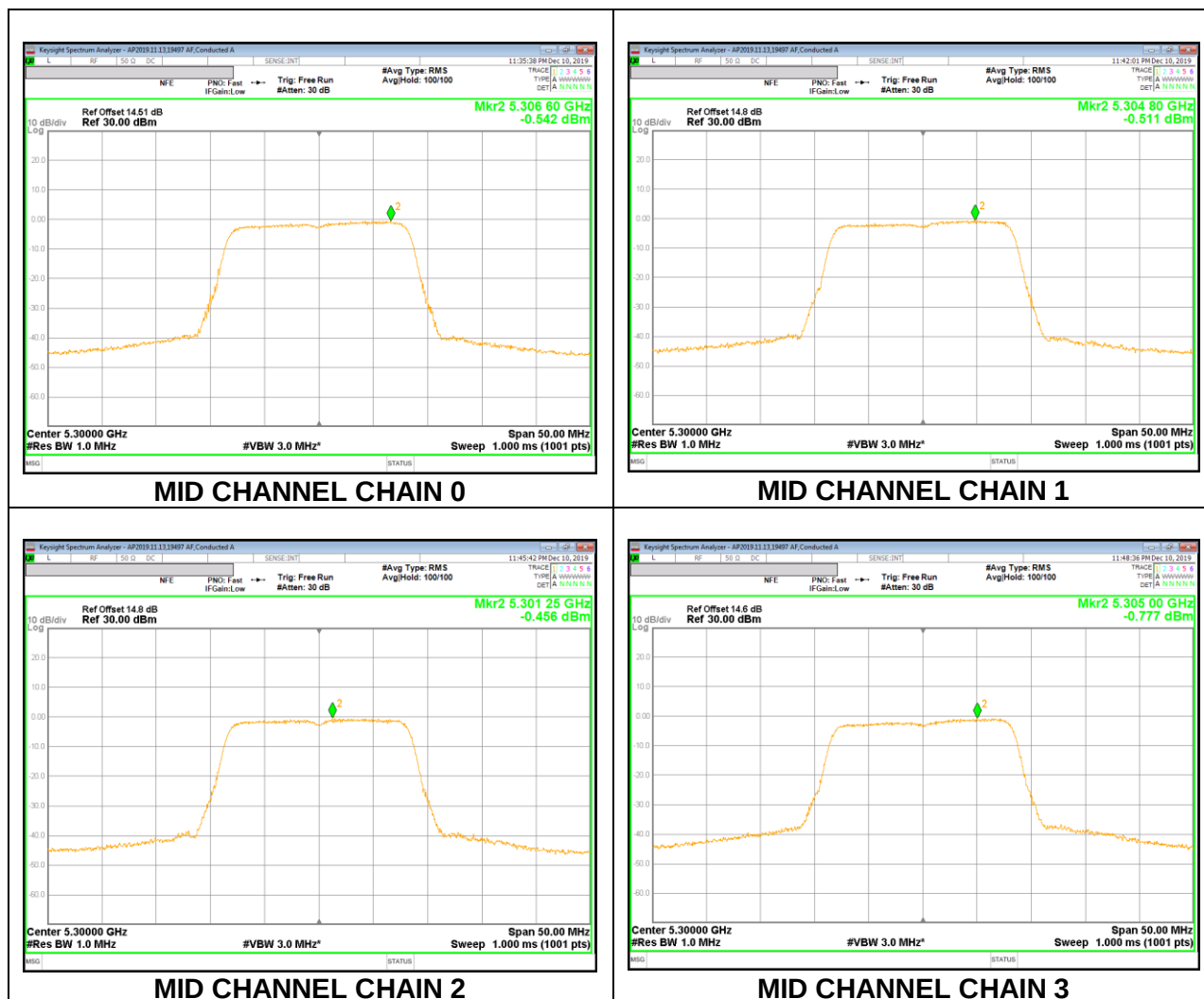
PPSP Results

Channel	Frequency (MHz)	Chain 0 Meas PPSP (dBm/ 1MHz)	Chain 1 Meas PPSP (dBm/ 1MHz)	Chain 2 Meas PPSP (dBm/ 1MHz)	Chain 3 Meas PPSP (dBm/ 1MHz)	Total Corr'd PPSP (dBm/ 1MHz)	PPSP Limit (dBm/ 1MHz)	PPSP Margin (dB)
Low	5260	-0.624	-1.072	0.058	-0.971	5.39	7.34	-1.95
Mid	5300	-0.542	-0.511	-0.458	-0.777	5.45	7.34	-1.89
High	5320	-0.370	-1.300	-0.590	-1.069	5.20	7.34	-2.14

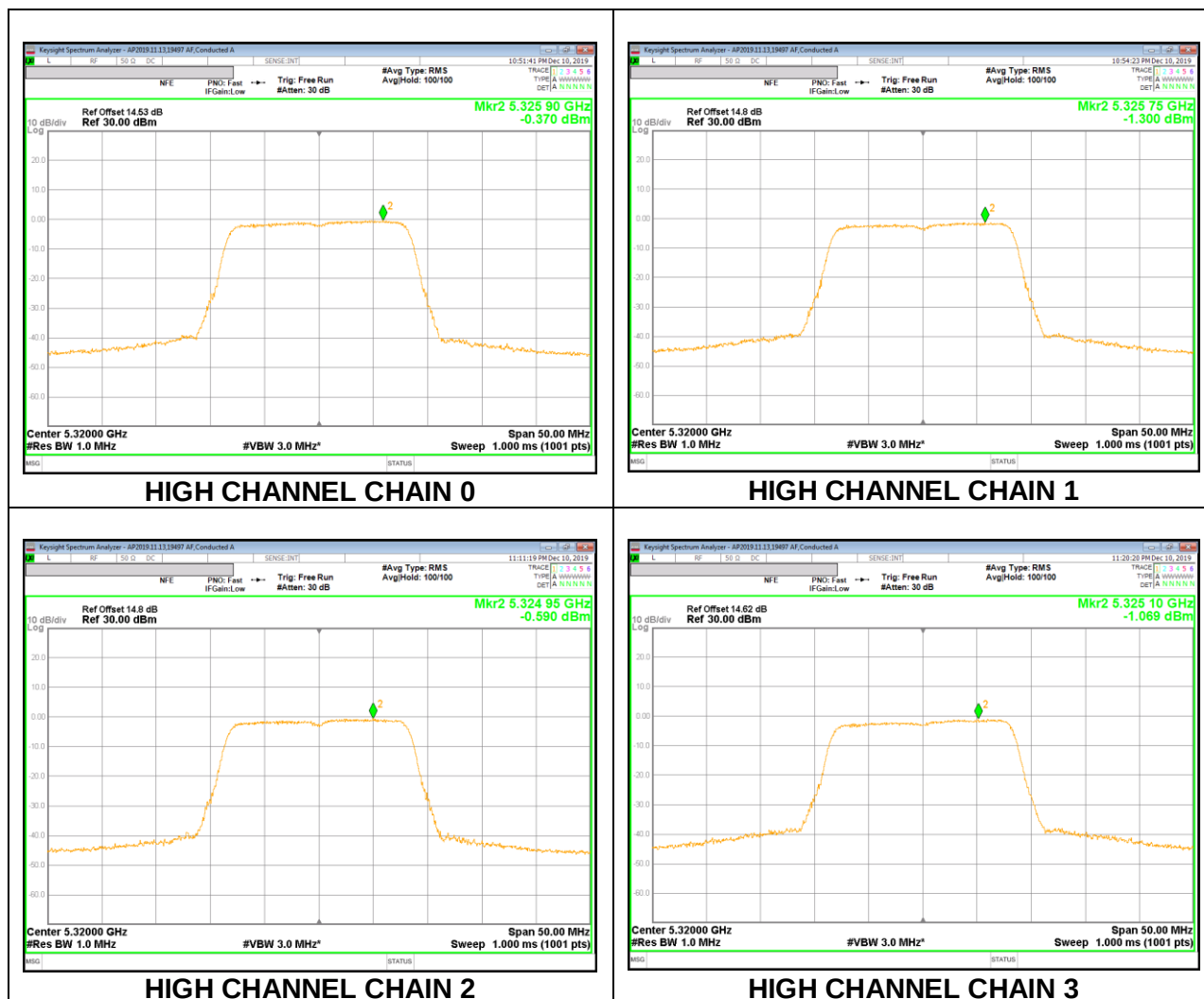
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.4. 802.11n HT20 MODE IN THE 5.3 GHz BAND

FCC + IC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PPSD (dBi)
Low	5260	20.65	17.7318	6.66	9.66
Mid	5300	20.60	17.7019	6.66	9.66
High	5320	20.15	17.5283	6.66	9.66

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Power Limit (dBm)	FCC PPSD Limit (dBm)	IC PSD Limit (dBm)	PPSD Limit (dBm)
Low	5260	23.34	23.49	29.49	22.83	7.34	11.00	7.34
Mid	5300	23.34	23.48	29.48	22.82	7.34	11.00	7.34
High	5320	23.34	23.44	29.44	22.78	7.34	11.00	7.34

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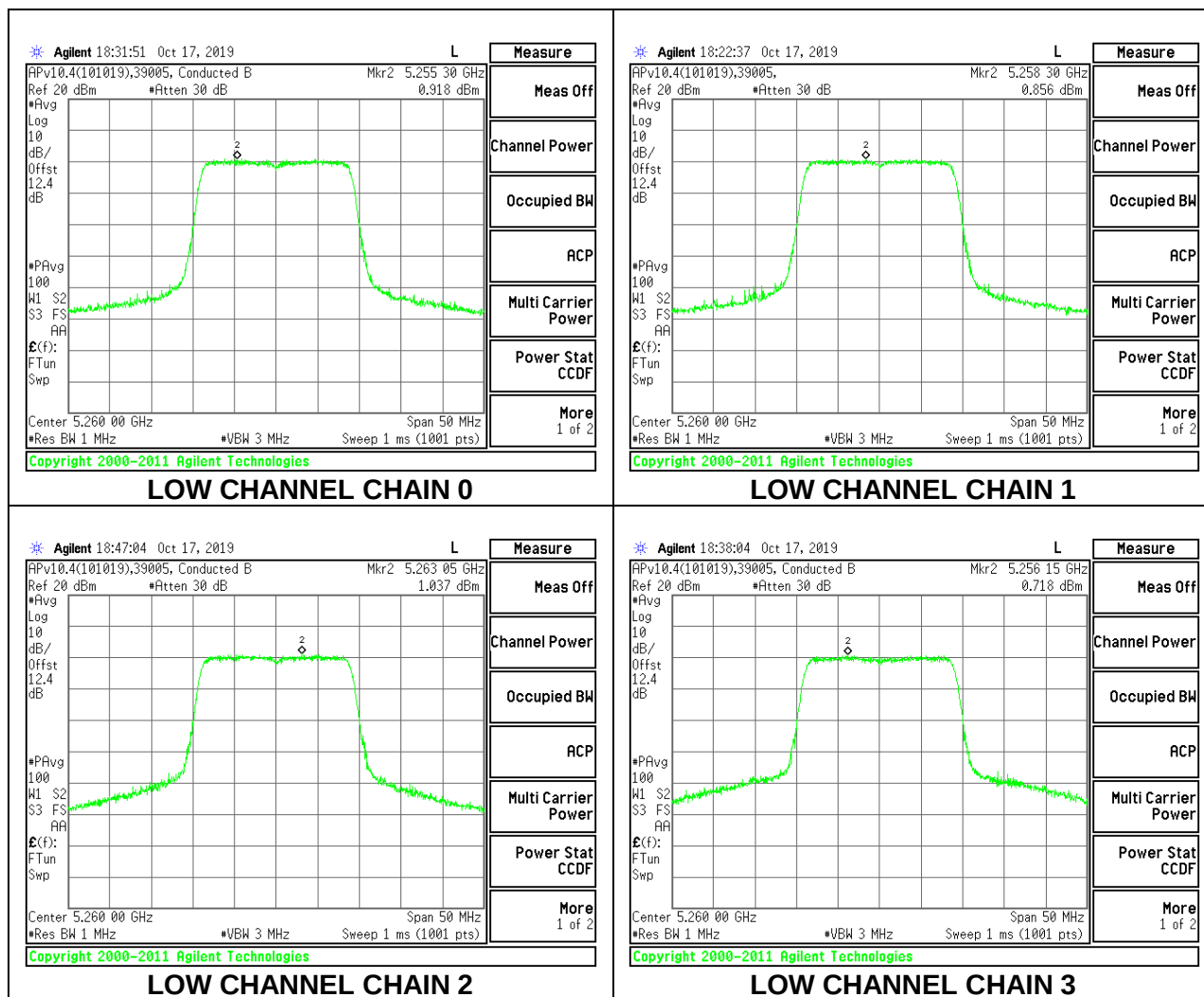
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	11.78	11.42	12.20	11.38	17.73	22.83	-5.10
Mid	5300	12.15	11.90	12.26	12.11	18.13	22.82	-4.69
High	5320	12.24	12.00	12.30	11.92	18.14	22.78	-4.64

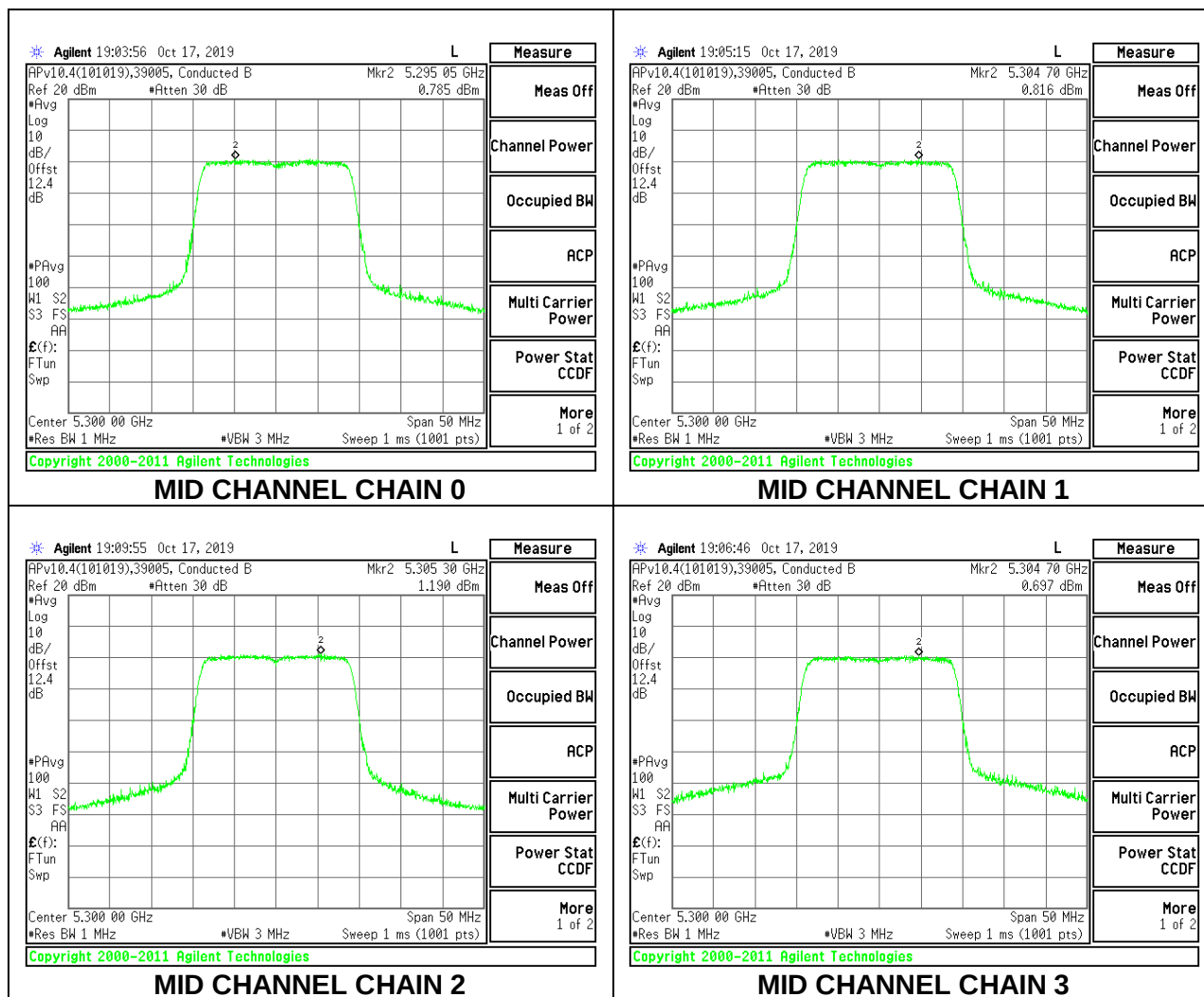
PPSD Results

Channel	Frequency (MHz)	Chain 0 Meas PPSD (dBm/ 1MHz)	Chain 1 Meas PPSD (dBm/ 1MHz)	Chain 2 Meas PPSD (dBm/ 1MHz)	Chain 3 Meas PPSD (dBm/ 1MHz)	Total Corr'd PPSD (dBm/ 1MHz)	PPSD Limit (dBm/ 1MHz)	PPSD Margin (dB)
Low	5260	0.918	0.856	1.037	0.718	7.21	7.34	-0.13
Mid	5300	0.785	0.816	1.190	0.697	7.21	7.34	-0.13
High	5320	0.750	0.733	1.096	0.668	7.15	7.34	-0.19

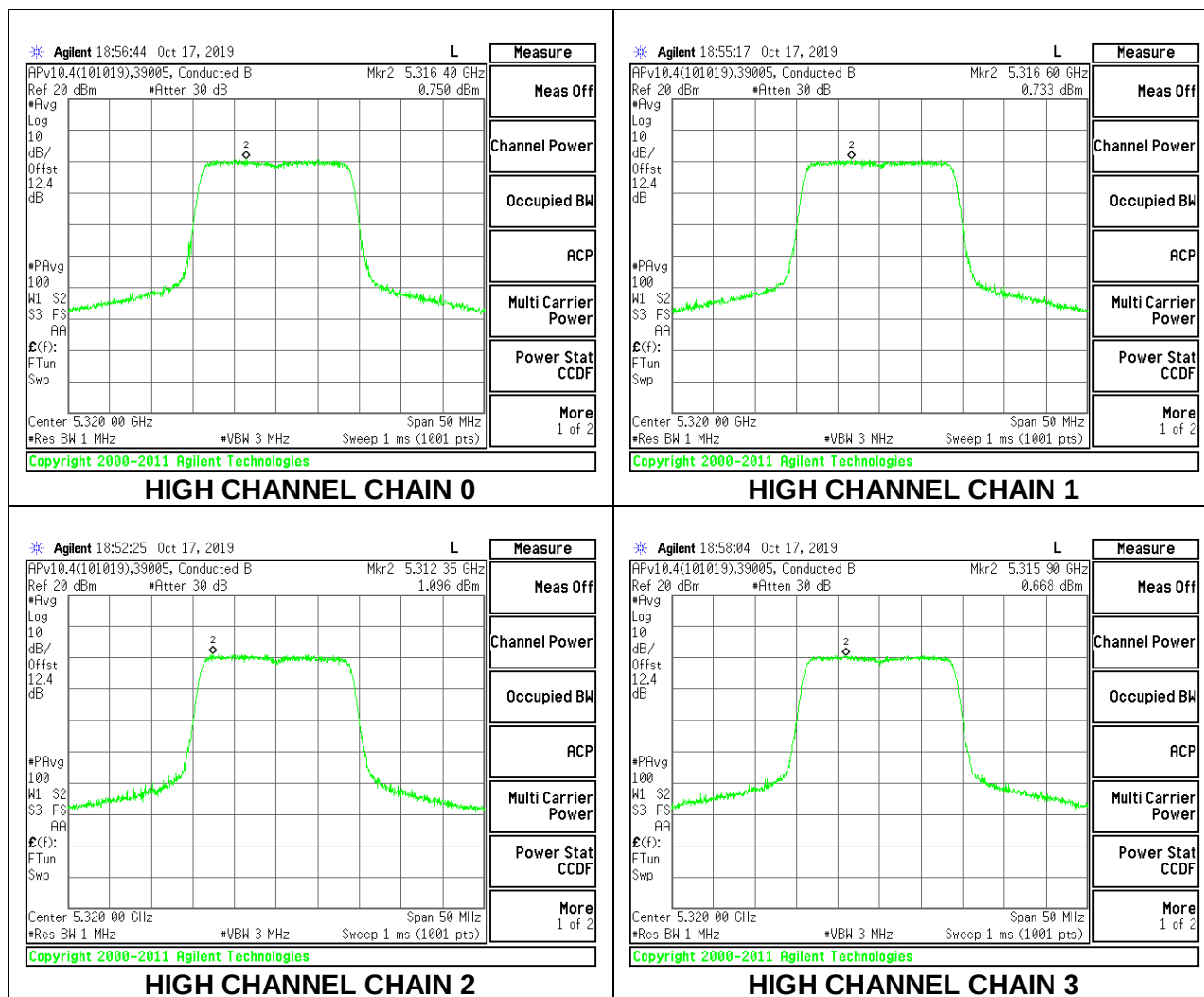
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.5. 802.11a MODE IN THE 5.6 GHz BAND

FCC+IC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

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	20.15	16.435	5.98	8.97
Mid	5580	20.15	16.406	5.98	8.97
High	5700	20.20	16.484	5.98	8.97

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	23.16	29.16	23.16	8.03	11.00	8.03
Mid	5580	24.00	23.15	29.15	23.15	8.03	11.00	8.03
High	5700	24.00	23.17	29.17	23.17	8.03	11.00	8.03

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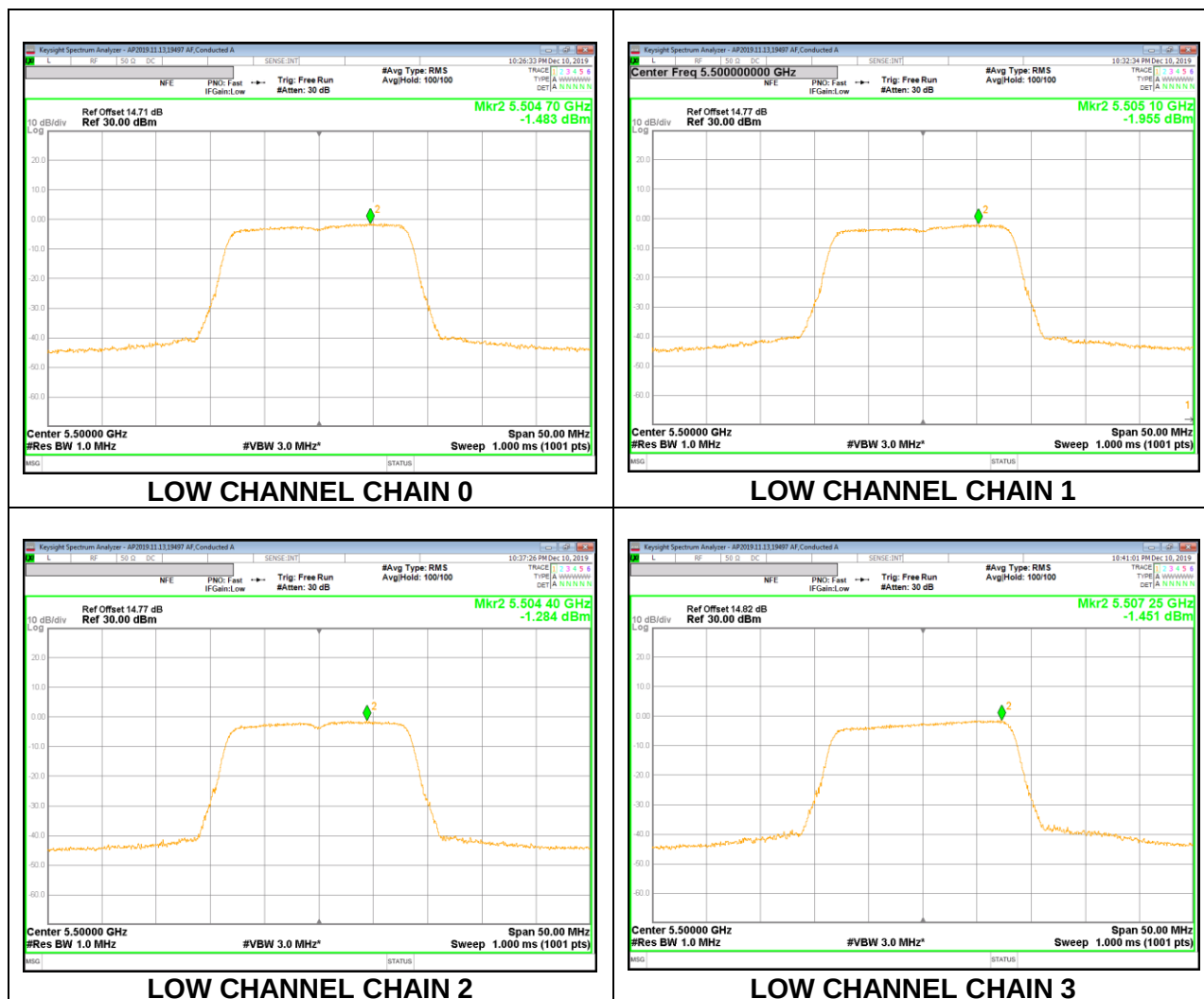
Output Power Results

Channel	Frequency (MHz)	Antenna 0 Meas Power (dBm)	Antenna Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.36	11.69	12.64	12.67	18.38	23.16	-4.78
Mid	5580	12.61	11.81	12.95	12.51	18.51	23.15	-4.64
High	5700	13.06	12.28	13.33	12.44	18.82	23.17	-4.35

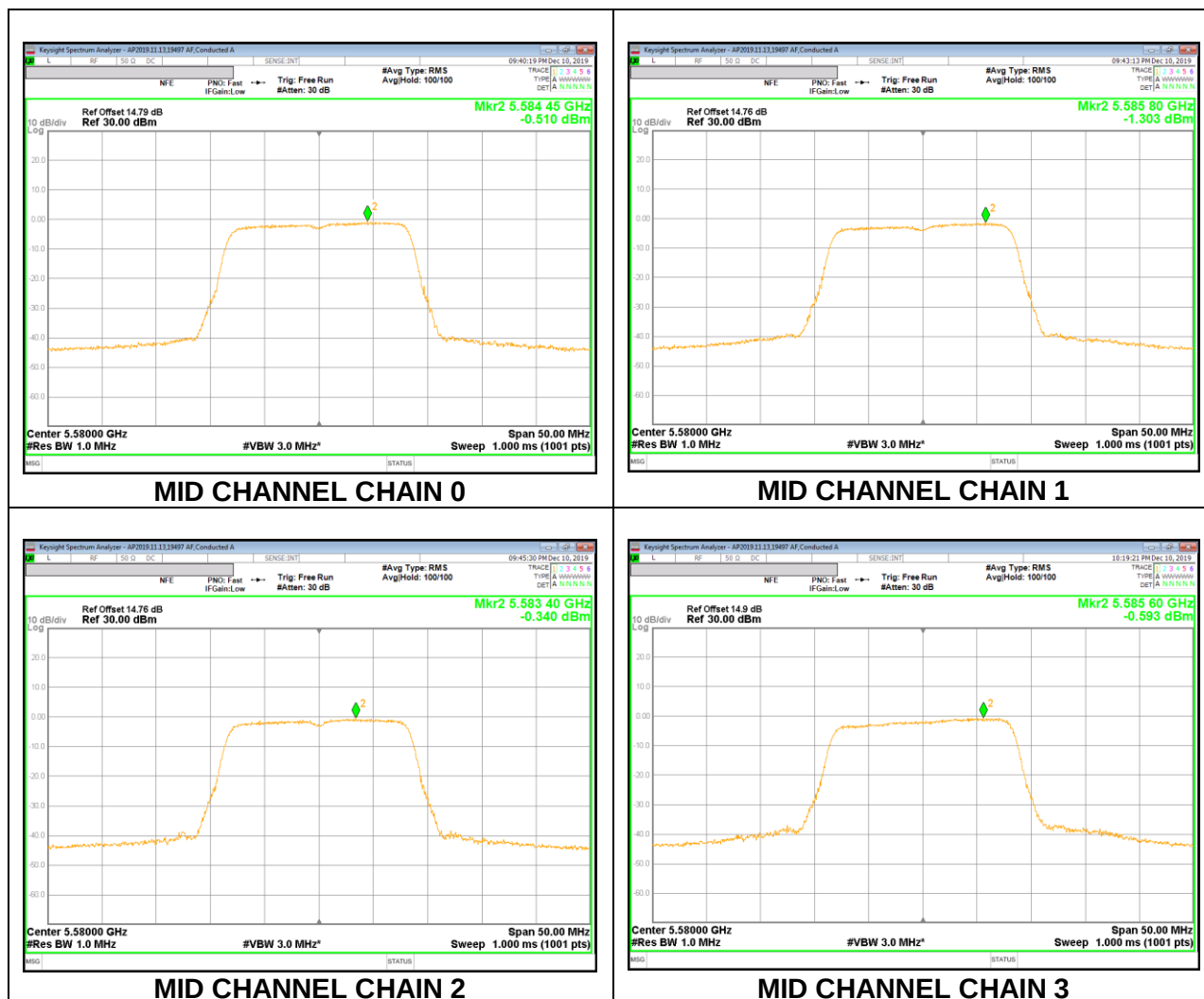
PSD Results

Channel	Frequency (MHz)	Antenna 0 Meas PSD (dBm/ 1MHz)	Antenna Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	-1.483	-1.955	-1.284	-1.451	4.484	8.03	-3.55
Mid	5580	-0.510	-1.303	-0.340	-0.593	5.349	8.03	-2.68
High	5700	1.040	0.453	1.013	0.523	6.786	8.03	-1.24

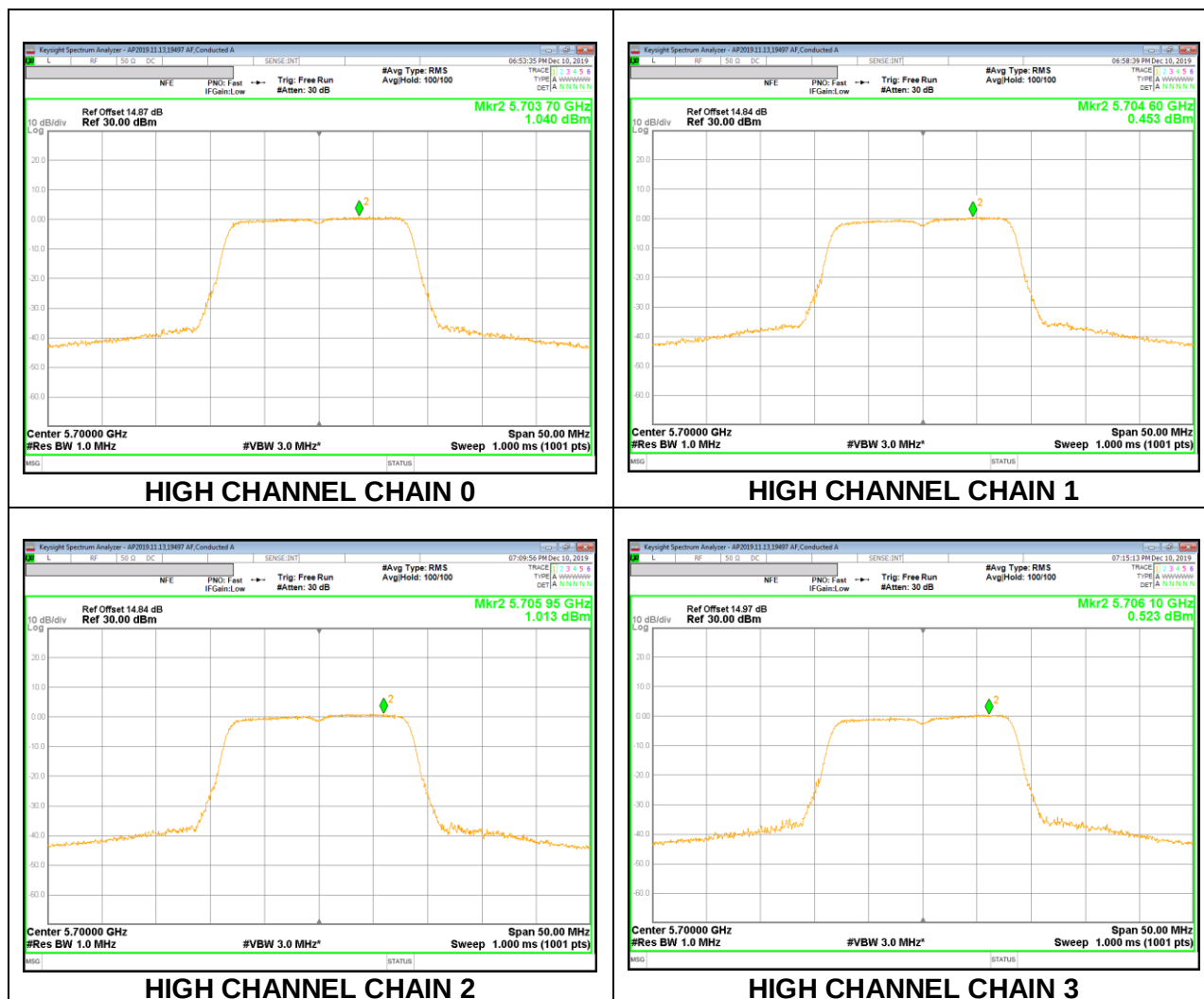
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.6. 802.11n HT20 MODE IN THE 5.6 GHz BAND

FCC+IC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

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	20.30	17.5357	5.98	8.97
Mid	5580	20.60	17.6866	5.98	8.97
High	5700	20.20	17.5293	5.98	8.97

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	23.44	29.44	23.44	8.03	11.00	8.03
Mid	5580	24.00	23.48	29.48	23.48	8.03	11.00	8.03
High	5700	24.00	23.44	29.44	23.44	8.03	11.00	8.03

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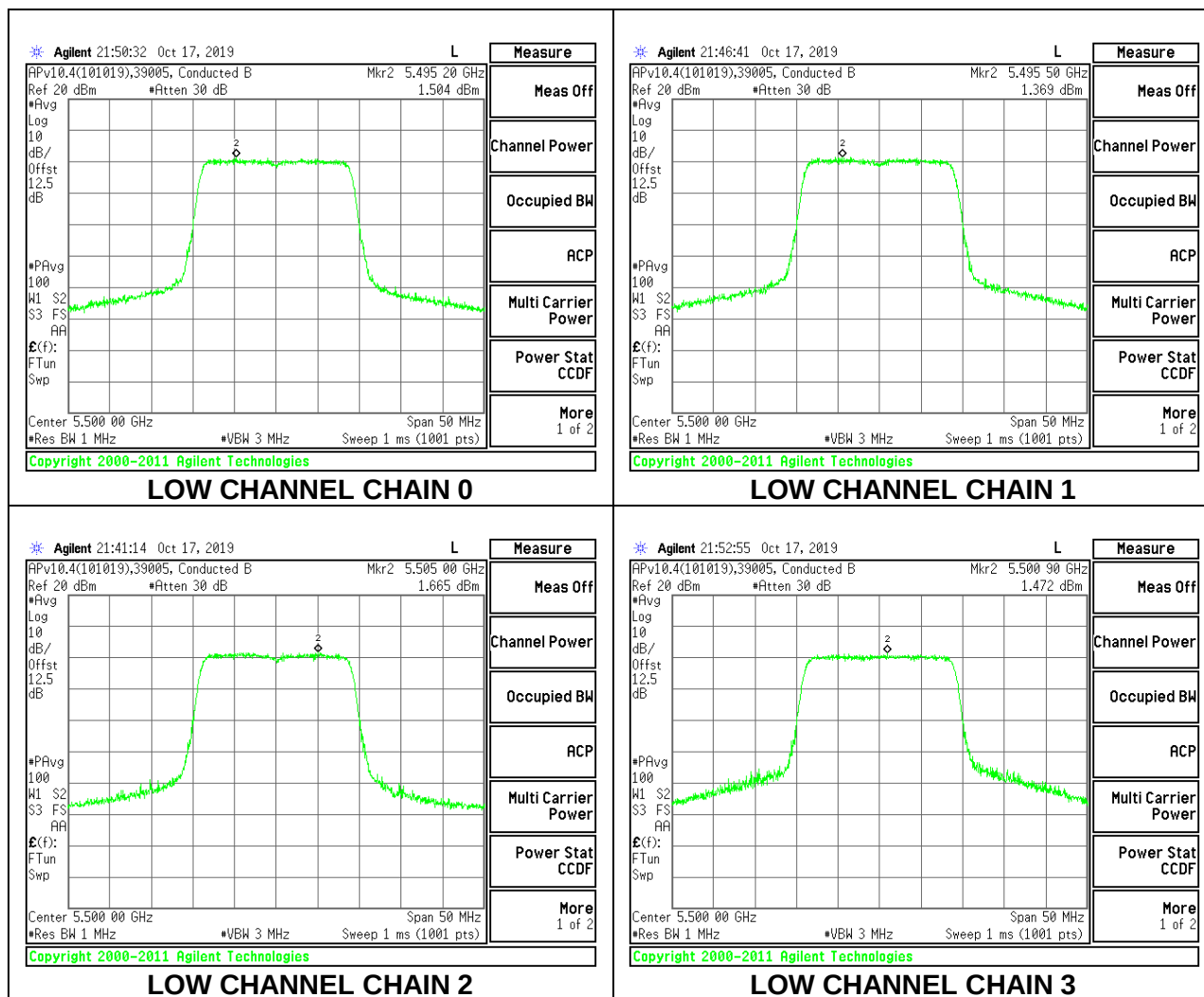
Output Power Results

Channel	Frequency (MHz)	Antenna 0 Meas Power (dBm)	Antenna 1 Meas Power (dBm)	Antenna 2 Meas Power (dBm)	Antenna 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	12.50	12.50	12.65	12.60	18.58	23.44	-4.86
Mid	5580	12.60	12.61	12.89	12.70	18.72	23.48	-4.75
High	5700	12.73	12.65	13.20	12.74	18.86	23.44	-4.58

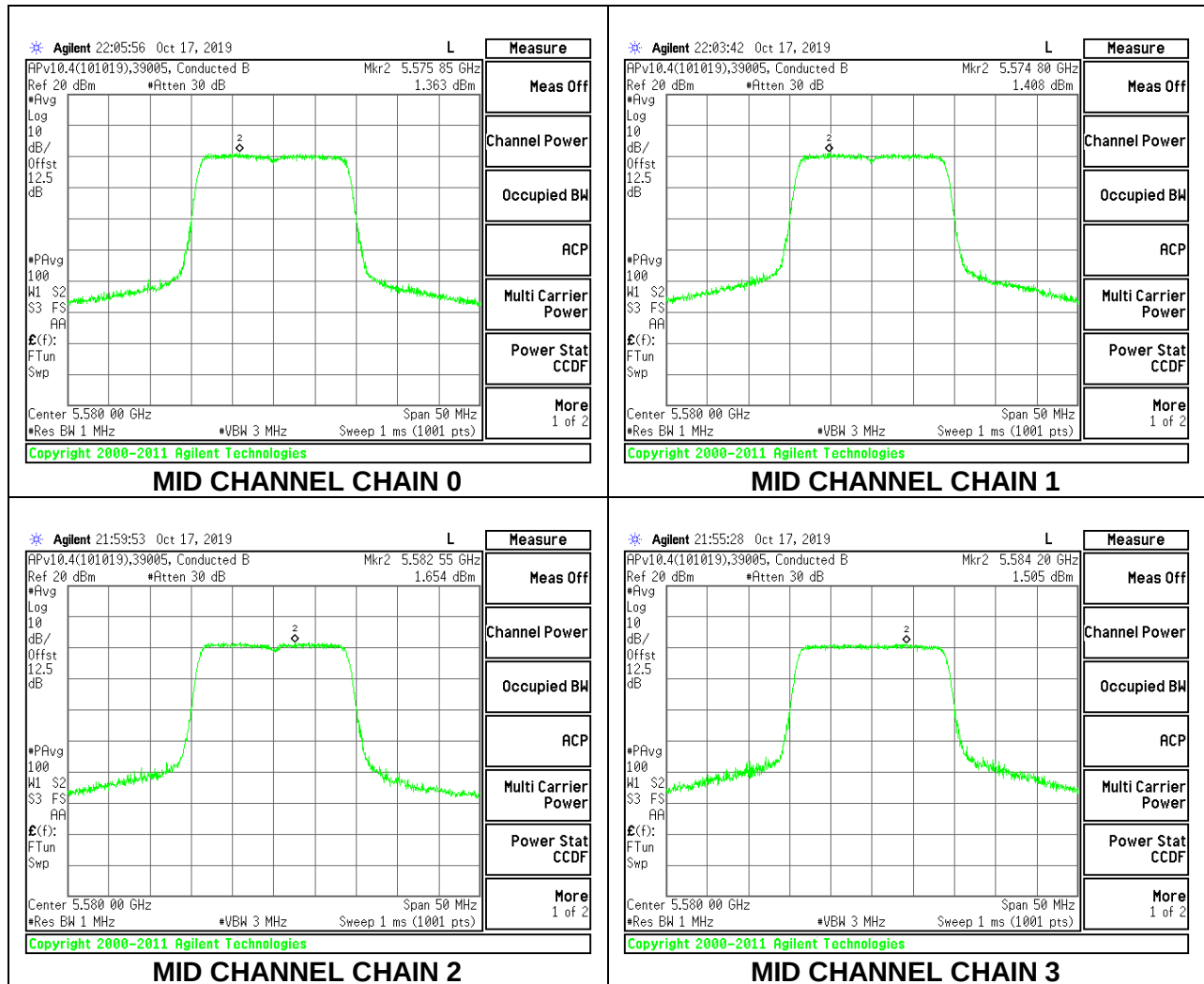
PSD Results

Channel	Frequency (MHz)	Antenna 0 Meas PSD (dBm/ 1MHz)	Antenna 1 Meas PSD (dBm/ 1MHz)	Antenna 2 Meas PSD (dBm/ 1MHz)	Antenna 3 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	1.504	1.369	1.665	1.472	7.834	8.03	-0.20
Mid	5580	1.363	1.408	1.654	1.505	7.815	8.03	-0.22
High	5700	1.462	1.534	1.666	1.311	7.826	8.03	-0.20

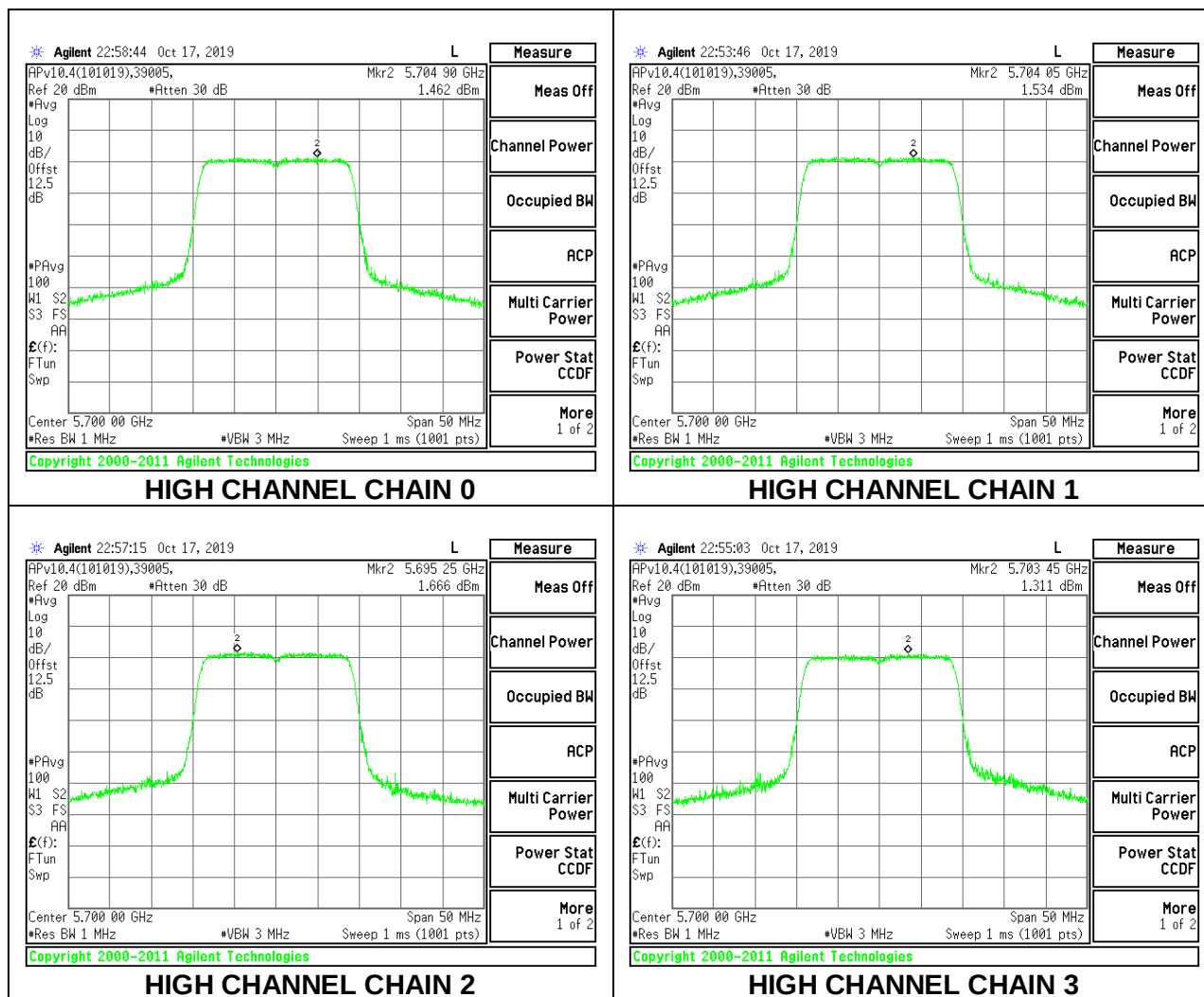
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.7. 802.11a MODE IN THE 5.8 GHz BAND

FCC+IC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

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	5.06	8.07	30.00	27.93
Mid	5785	5.06	8.07	30.00	27.93
High	5825	5.06	8.07	30.00	27.93

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'dPSD
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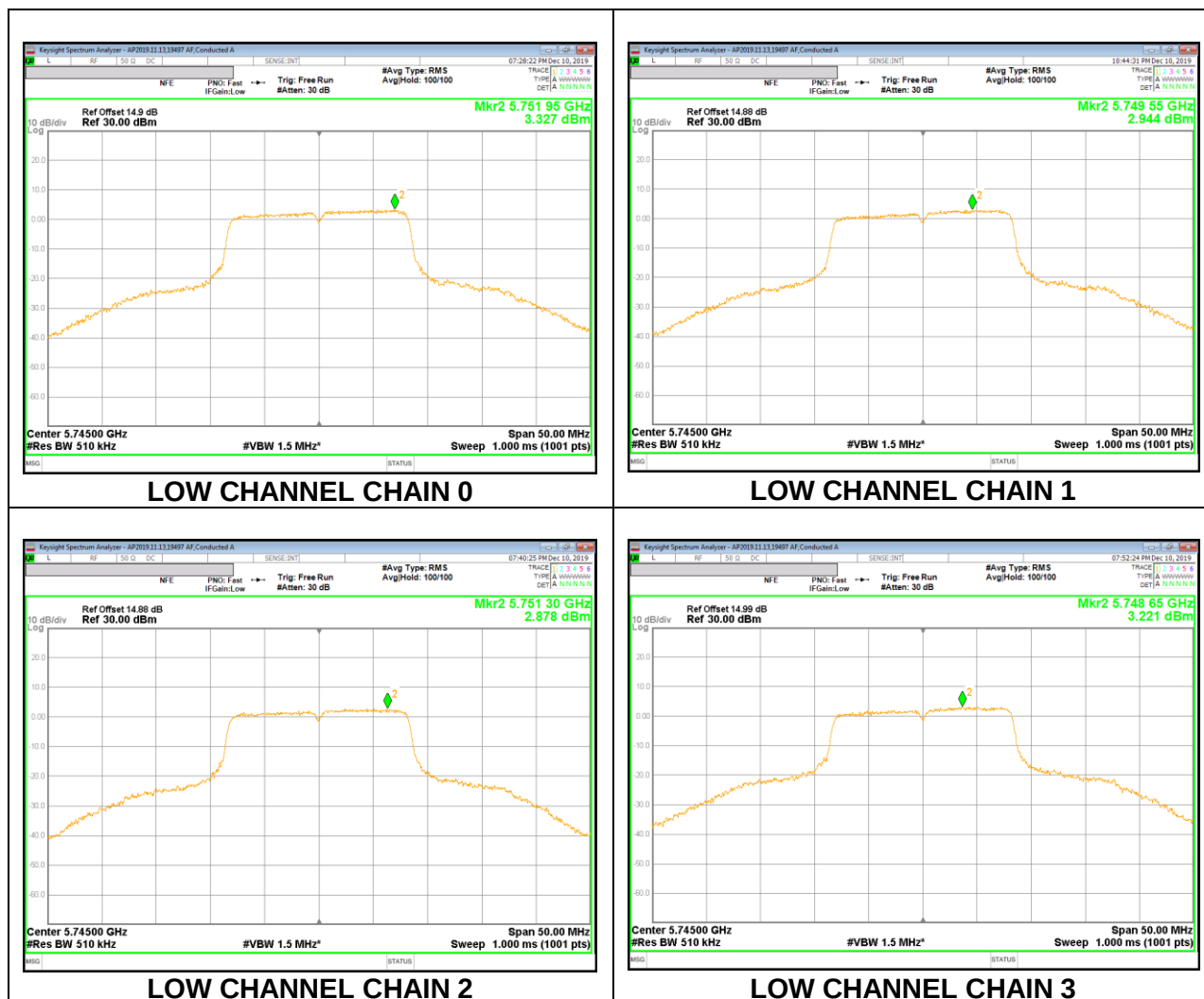
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	19.10	18.46	19.06	18.64	24.84	30.00	-5.16
Mid	5785	18.95	18.45	19.04	18.75	24.82	30.00	-5.18
High	5825	18.85	18.71	18.78	18.77	24.80	30.00	-5.20

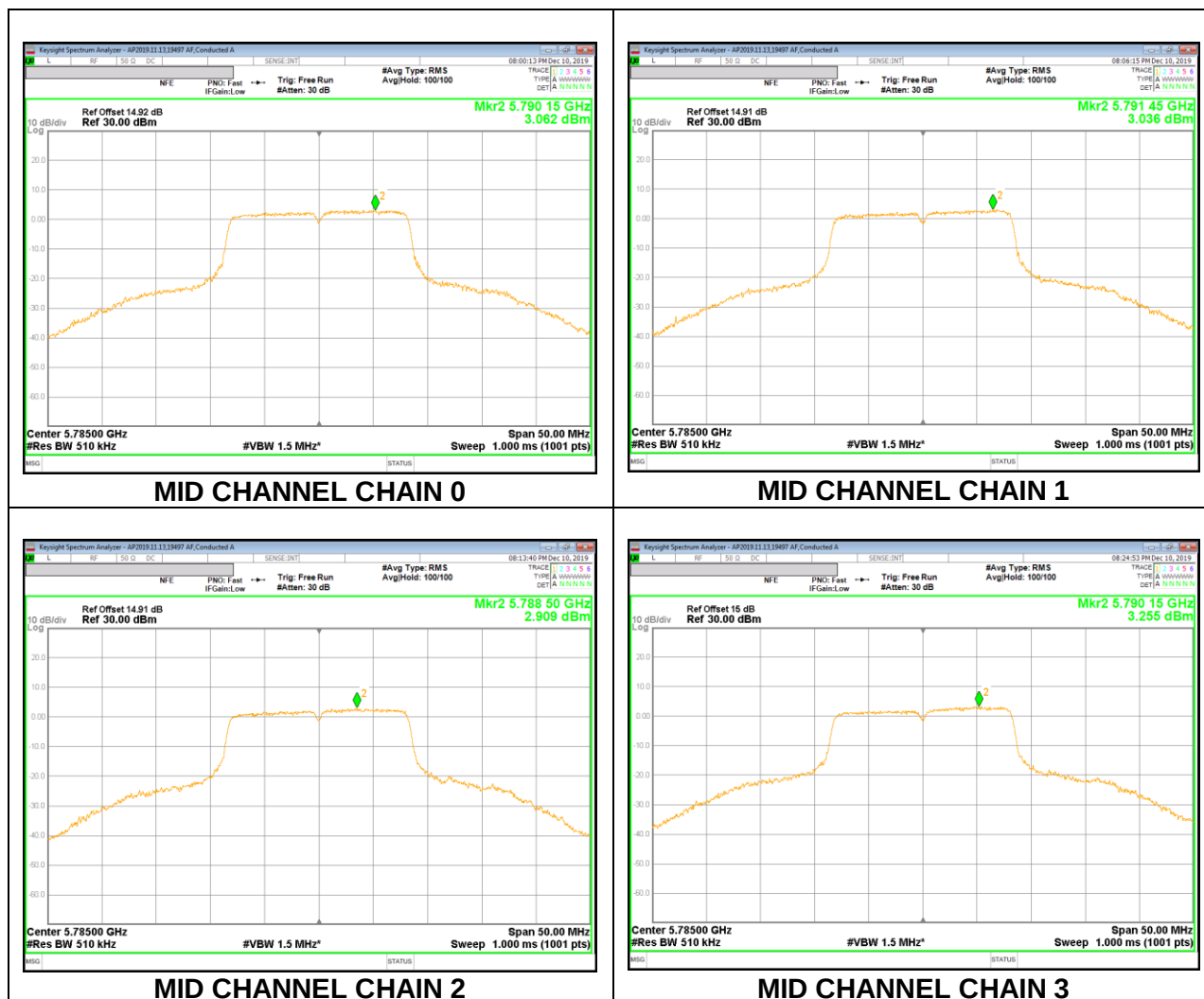
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500kHz)	Chain 1 Meas PSD (dBm/ 500kHz)	Chain 2 Meas PSD (dBm/ 500kHz)	Chain 3 Meas PSD (dBm/ 500kHz)	Total Corr'd PSD (dBm/ 500kHz)	PSD Limit (dBm/ 500kHz)	PSD Margin (dB)
Low	5745	3.327	2.944	2.878	3.221	9.117	27.93	-18.81
Mid	5785	3.062	3.036	2.909	3.255	9.088	27.93	-18.84
High	5825	3.544	4.098	3.261	3.461	9.623	27.93	-18.31

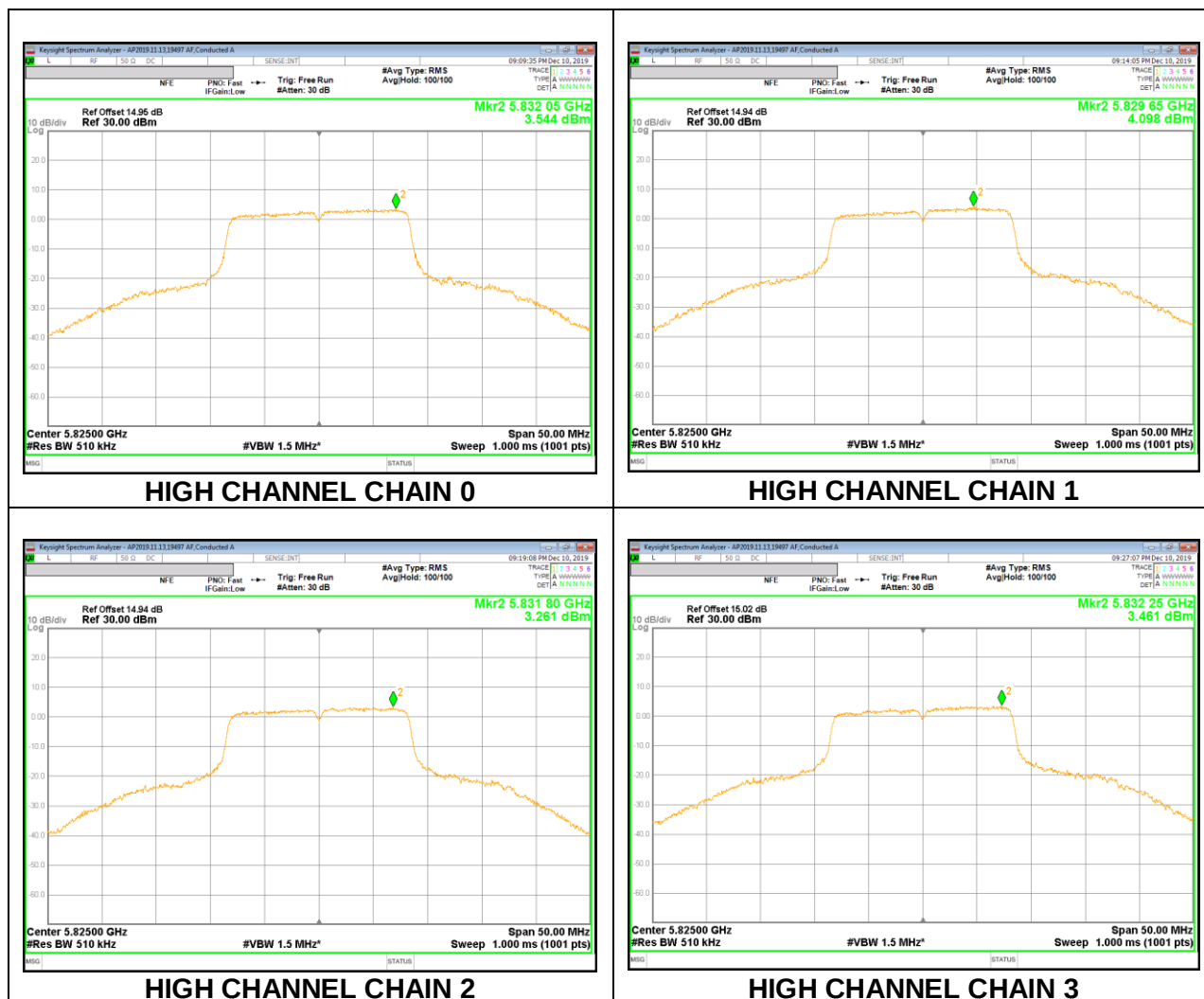
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.8. 802.11n HT20 MODE IN THE 5.8 GHz BAND

FCC+IC

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

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	5.06	8.07	30.00	27.93
Mid	5785	5.06	8.07	30.00	27.93
High	5825	5.06	8.07	30.00	27.93

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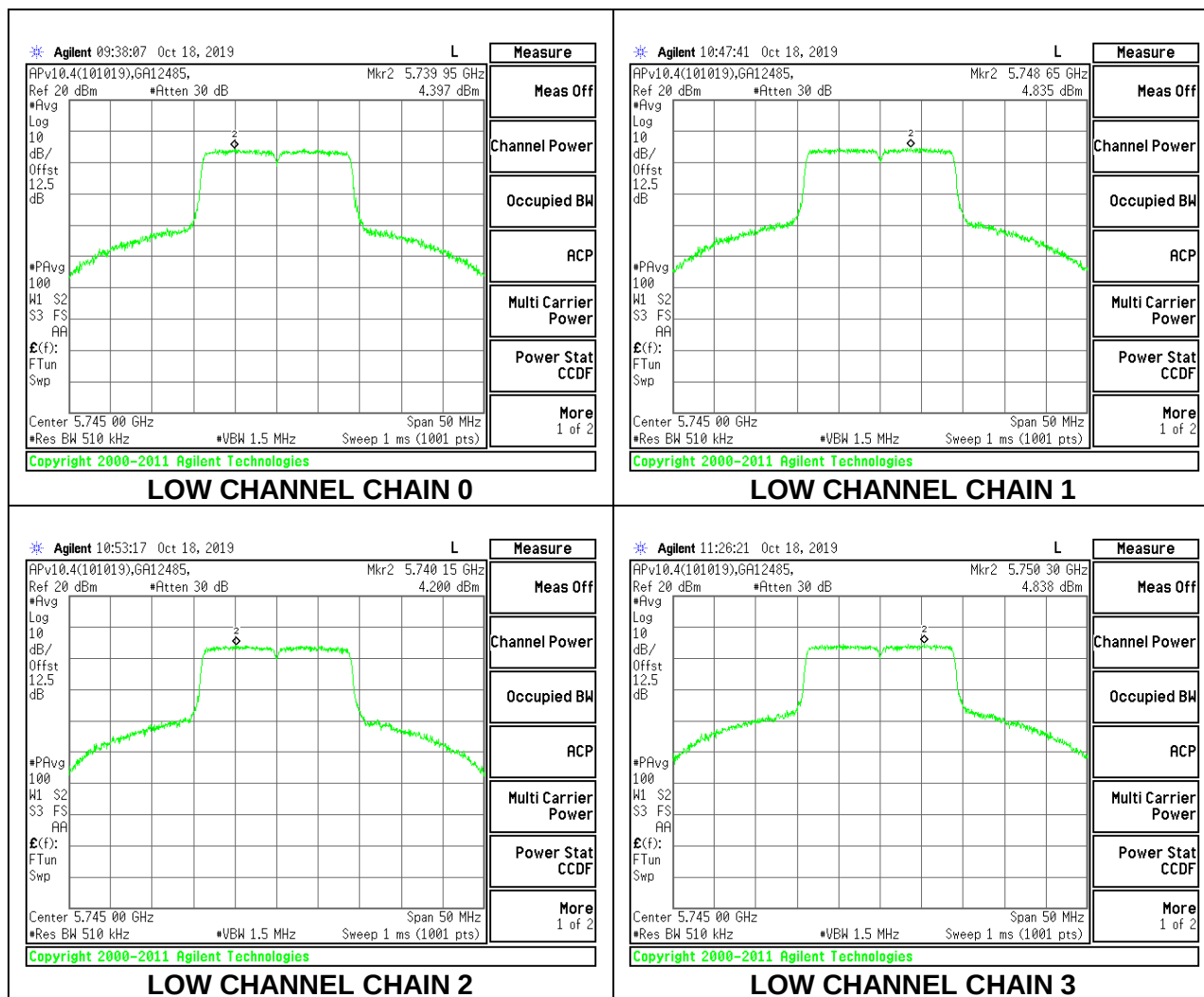
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Chain 3 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	18.22	18.34	18.19	18.38	24.30	30.00	-5.70
Mid	5785	18.21	18.43	18.22	18.25	24.30	30.00	-5.70
High	5825	18.10	18.48	18.26	18.12	24.26	30.00	-5.74

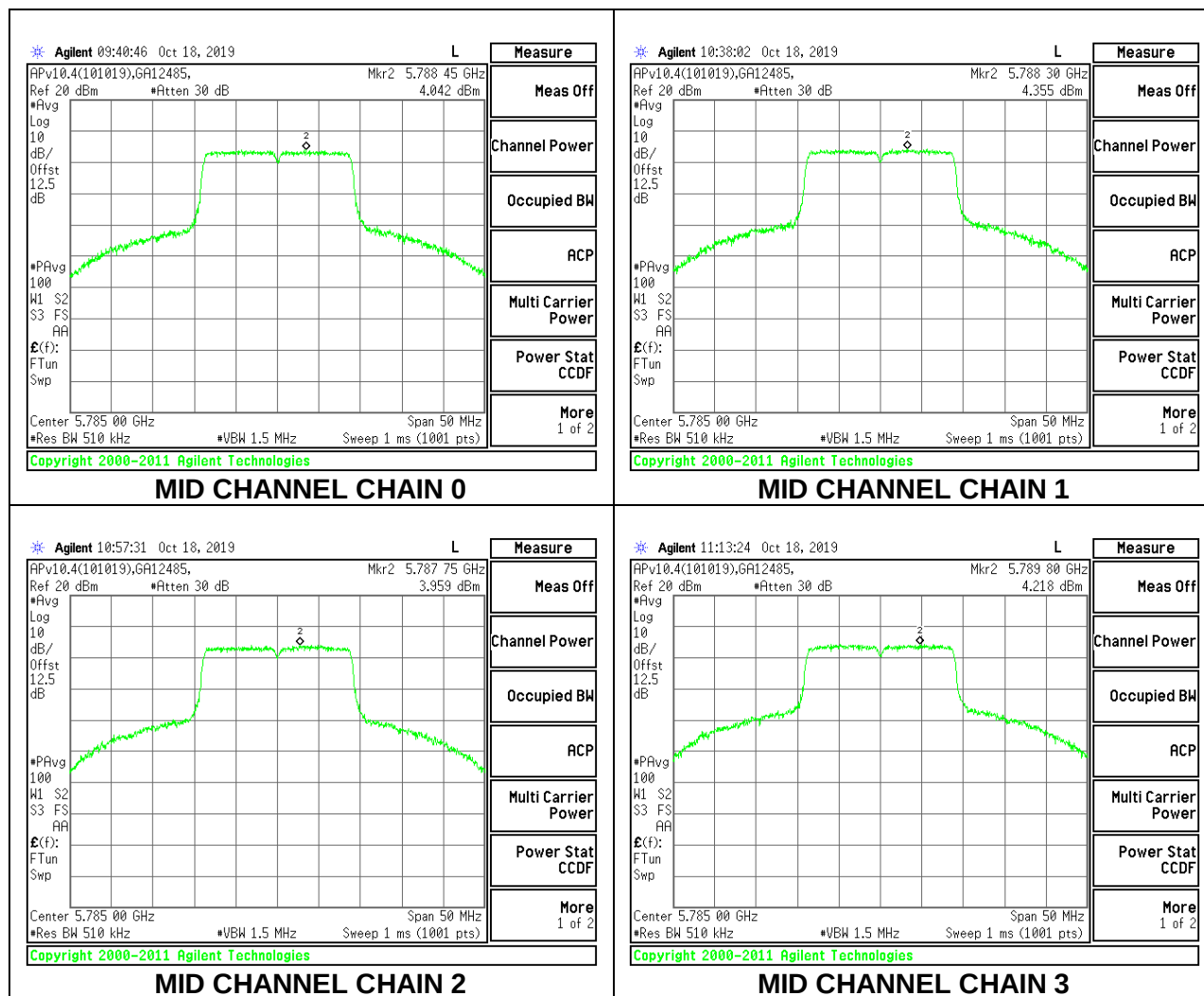
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500kHz)	Chain 1 Meas PSD (dBm/ 500kHz)	Chain 2 Meas PSD (dBm/ 500kHz)	Chain 3 Meas PSD (dBm/ 500kHz)	Total Corr'd PSD (dBm/ 500kHz)	PSD Limit (dBm/ 500kHz)	PSD Margin (dB)
Low	5745	4.397	4.835	4.200	4.838	10.907	27.93	-17.02
Mid	5785	4.042	4.355	3.959	4.218	10.477	27.93	-17.45
High	5825	4.381	5.083	4.362	4.630	10.954	27.93	-16.98

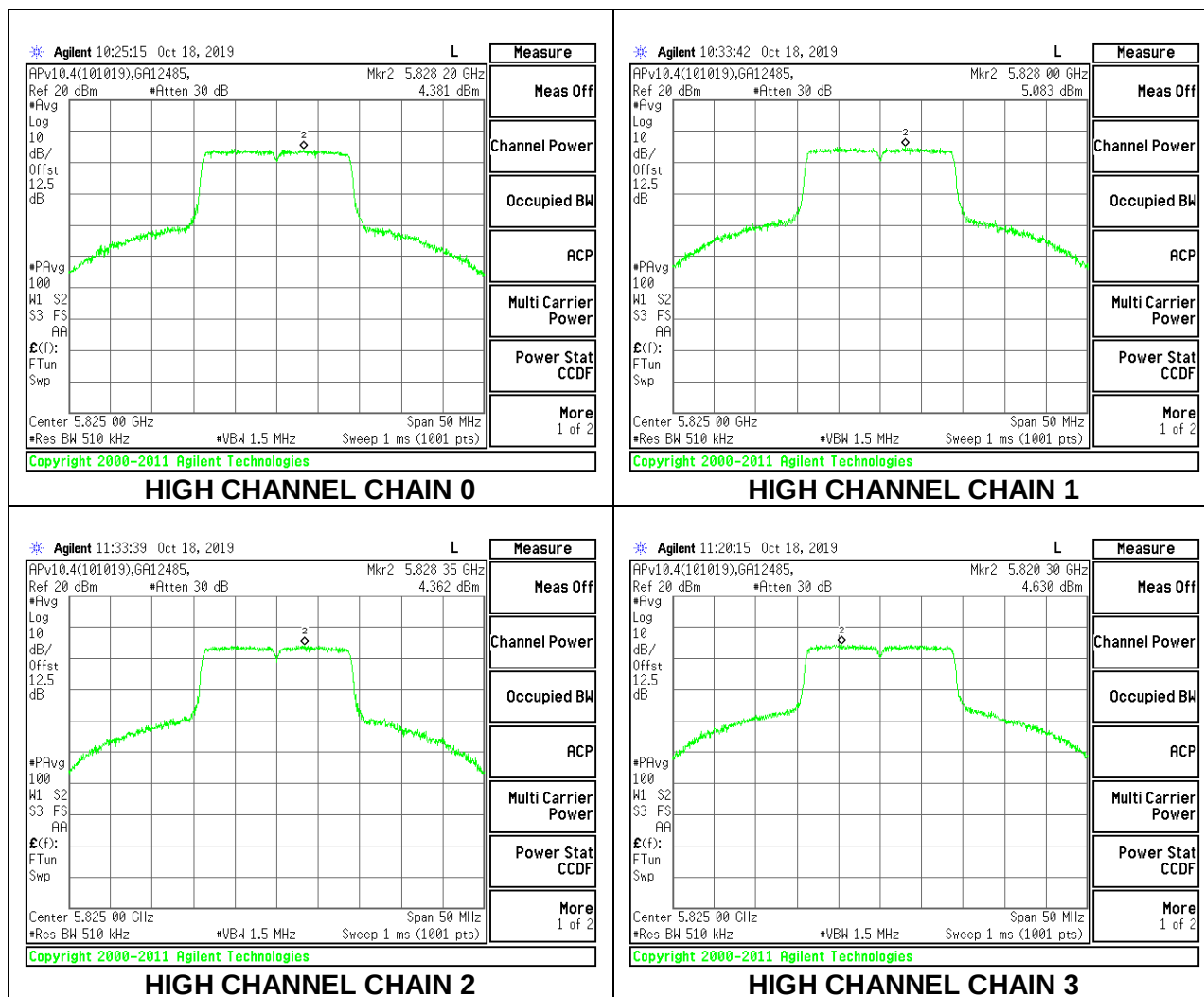
LOW CHANNEL



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)

NCC LP0002 §2.7 and §2.8

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 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.

2D antenna use - For below 30MHz testing, investigation was done on three antenna orientations (parallel, perpendicular, and ground-parallel), parallel and perpendicular are the worst orientations, therefore testing was performed on these two orientations only.

KDB 414788 Open Field Site(OFS) and Chamber Correlation Justification

Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

OFS and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

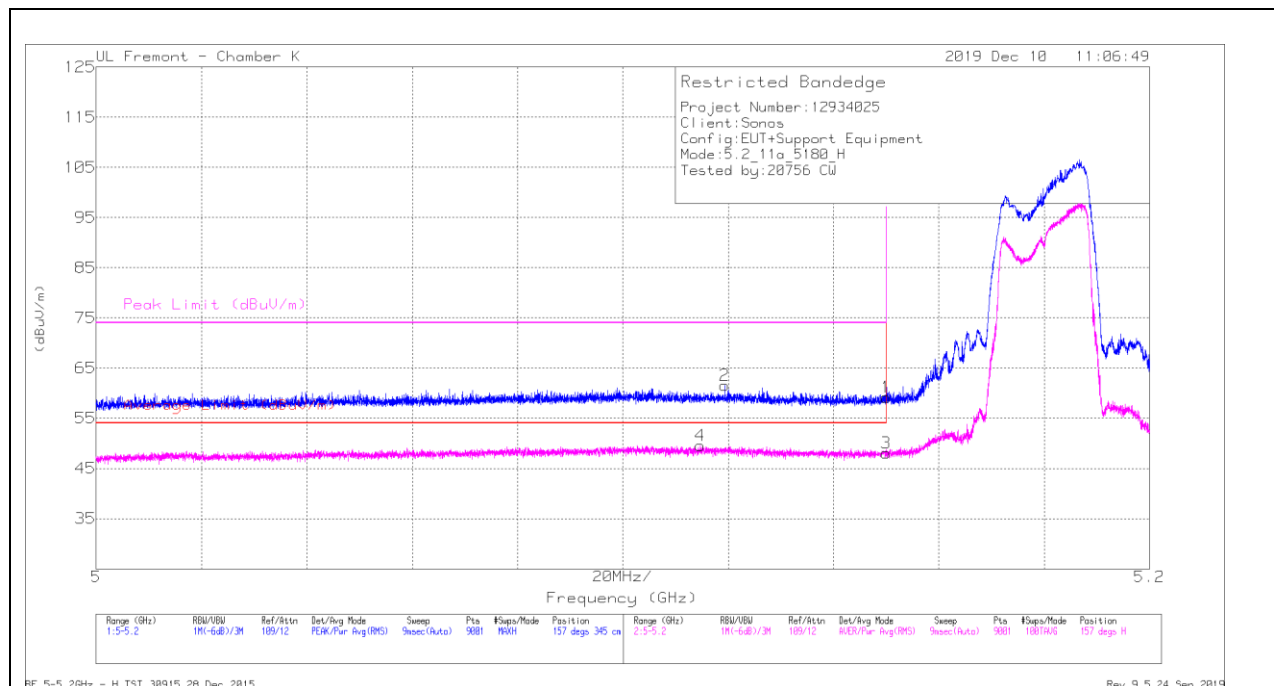
9.1. TRANSMITTER ABOVE 1 GHz

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

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

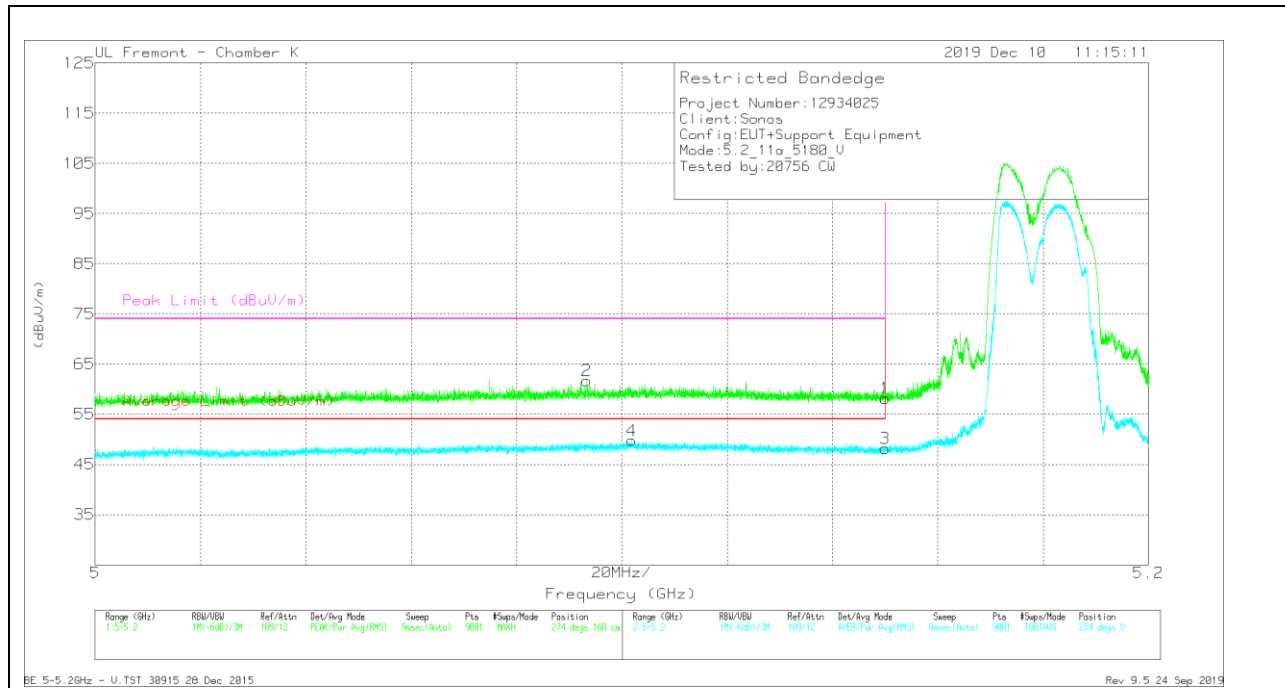
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	33.1	Pk	34.2	-8.1	59.2	-	-	74	-14.8	157	345	H
2	* 5.11935	35.3	Pk	34.3	-8	61.6	-	-	74	-12.4	157	345	H
3	* 5.15	21.92	RMS	34.2	-8.1	48.02	54	-5.98	-	-	157	345	H
4	* 5.11475	23.33	RMS	34.2	-8	49.53	54	-4.47	-	-	157	345	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Ampl/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	32.11	Pk	34.2	-8.1	58.21	-	-	74	-15.79	274	160	V
2	* 5.09333	35.66	Pk	34.2	-8.2	61.66	-	-	74	-12.34	274	160	V
3	* 5.15	22.09	RMS	34.2	-8.1	48.19	54	-5.81	-	-	274	160	V
4	* 5.10184	23.65	RMS	34.3	-8.2	49.75	54	-4.25	-	-	274	160	V

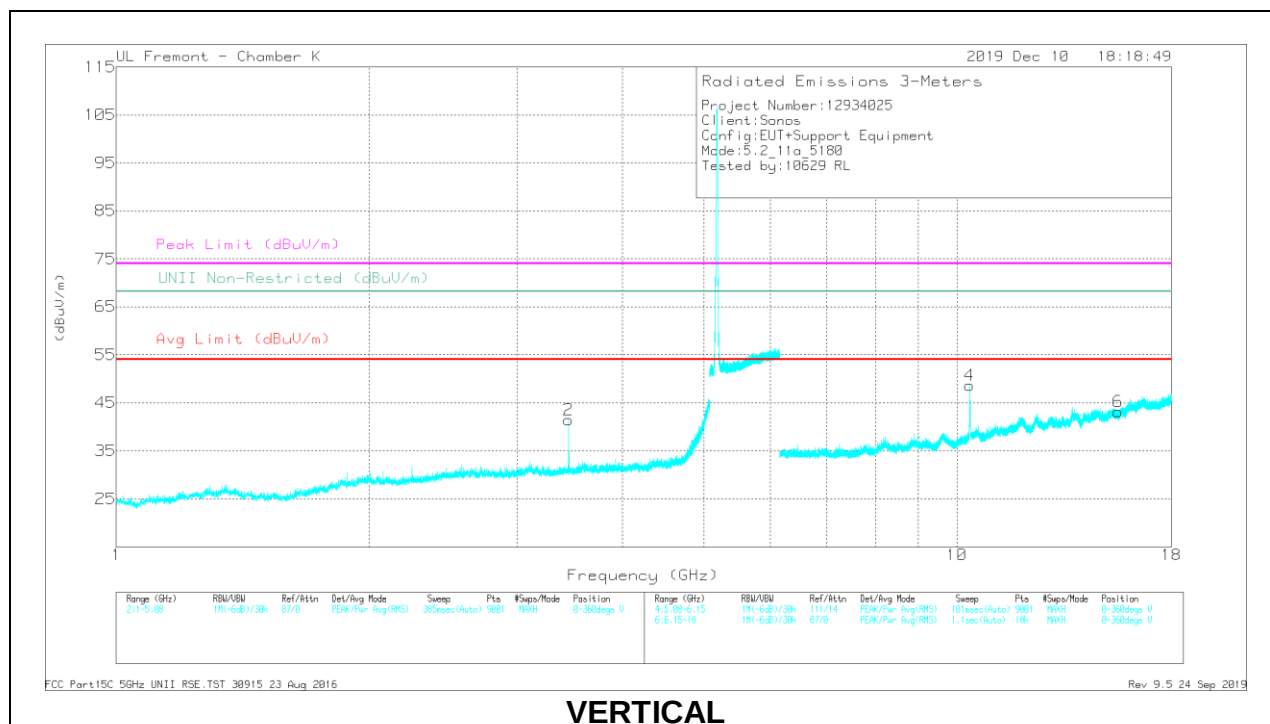
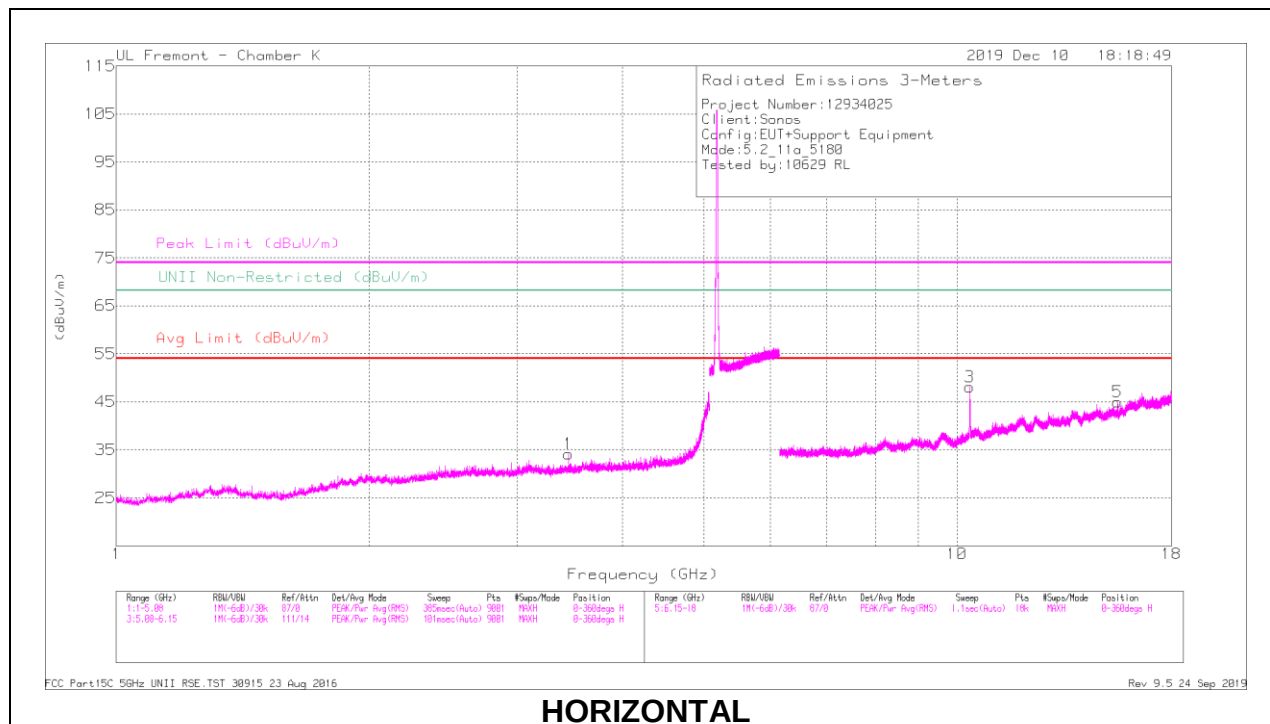
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

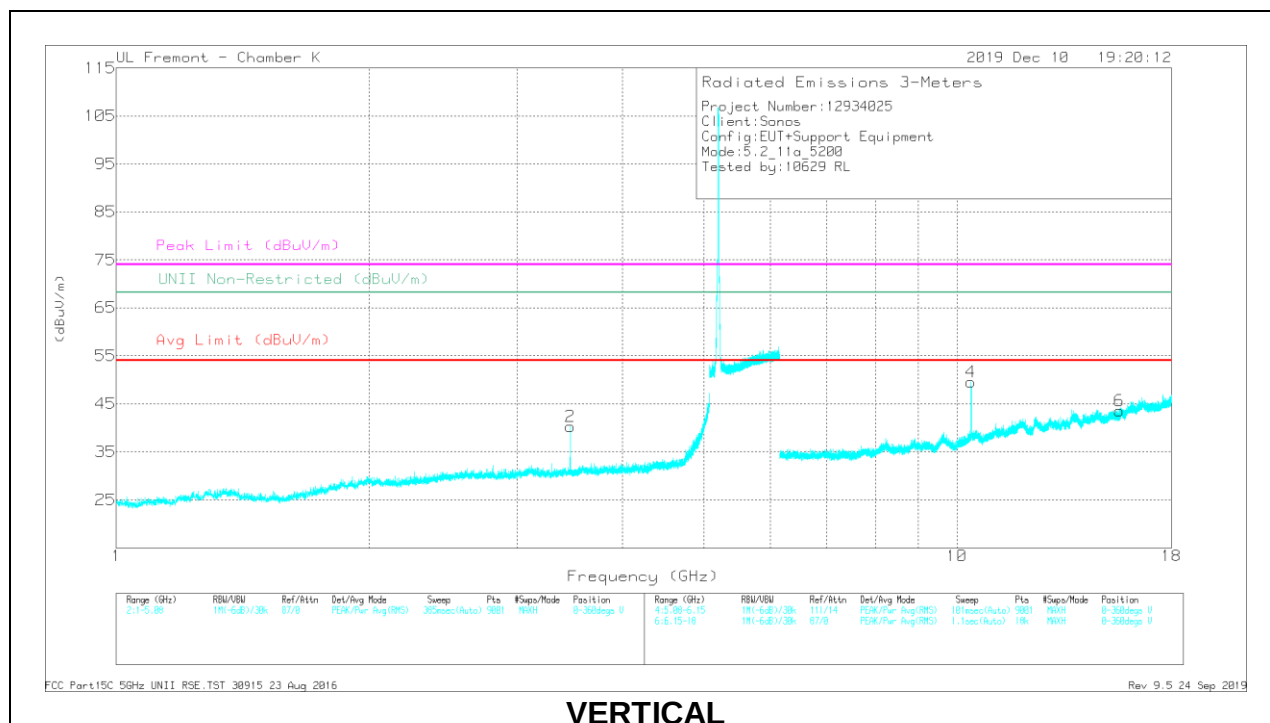
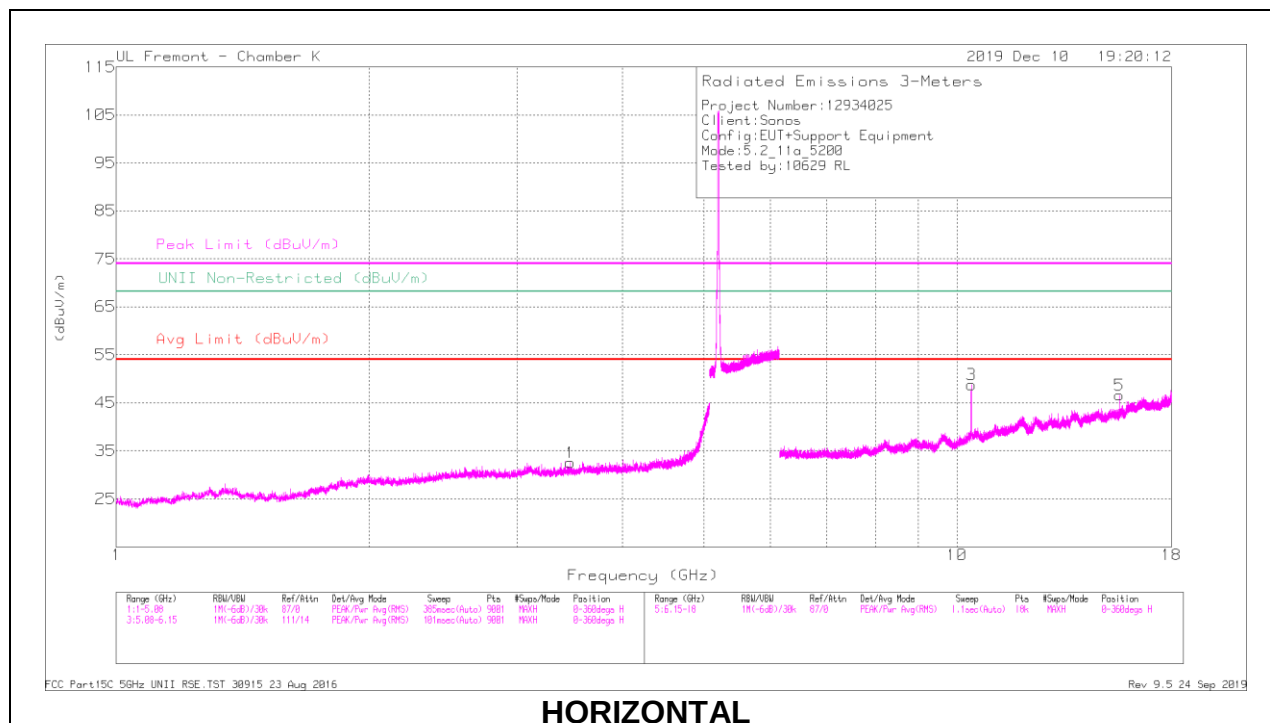
Marker	Frequency (MHz)	Meas Reading (dBµV)	Det	AF EMC4294 (dBm)	Amp C34/F10/Fad (dB)	Corrected Reading (dBµV/m)	Avg Limit (dBµV/m)	Margin (dB)	Peak Limit (dBµV/m)	PK Margin (dB)	Unl Non-Restricted (dBµV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.45325	40.14	PK-U	33.1	-32.9	40.34	-	-	-	-	68.2	-27.86	330	128	H
2	3.45339	44.2	PK-U	33.1	-32.9	44.4	-	-	-	-	68.2	-23.8	270	177	V
3	10.36035	45.36	PK-U	37.5	-23.1	59.76	-	-	-	-	68.2	-8.44	190	96	H
5	* 15.5383	33.29	PK-U	40.1	-18.6	54.79	-	-	74	-19.21	-	-	294	184	H
	* 15.53845	22.09	ADR	40	-18.6	43.49	54	-10.51	-	-	-	-	294	184	H
4	10.35611	47.47	PK-U	37.5	-23	61.97	-	-	-	-	68.2	-6.23	194	97	V
	* 15.53532	31.47	PK-U	40.1	-18.6	52.97	-	-	74	-21.03	-	-	193	292	V
6	* 15.53592	19.97	ADR	40.1	-18.6	41.47	54	-12.53	-	-	-	-	193	292	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

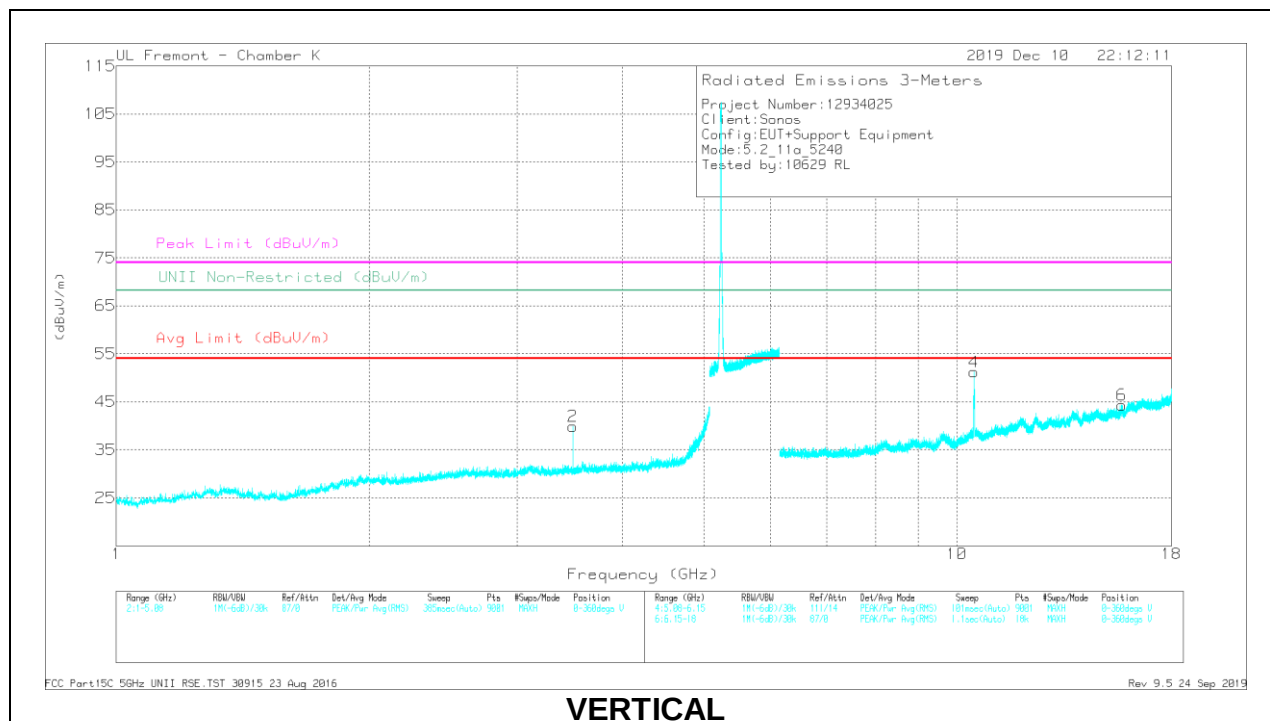
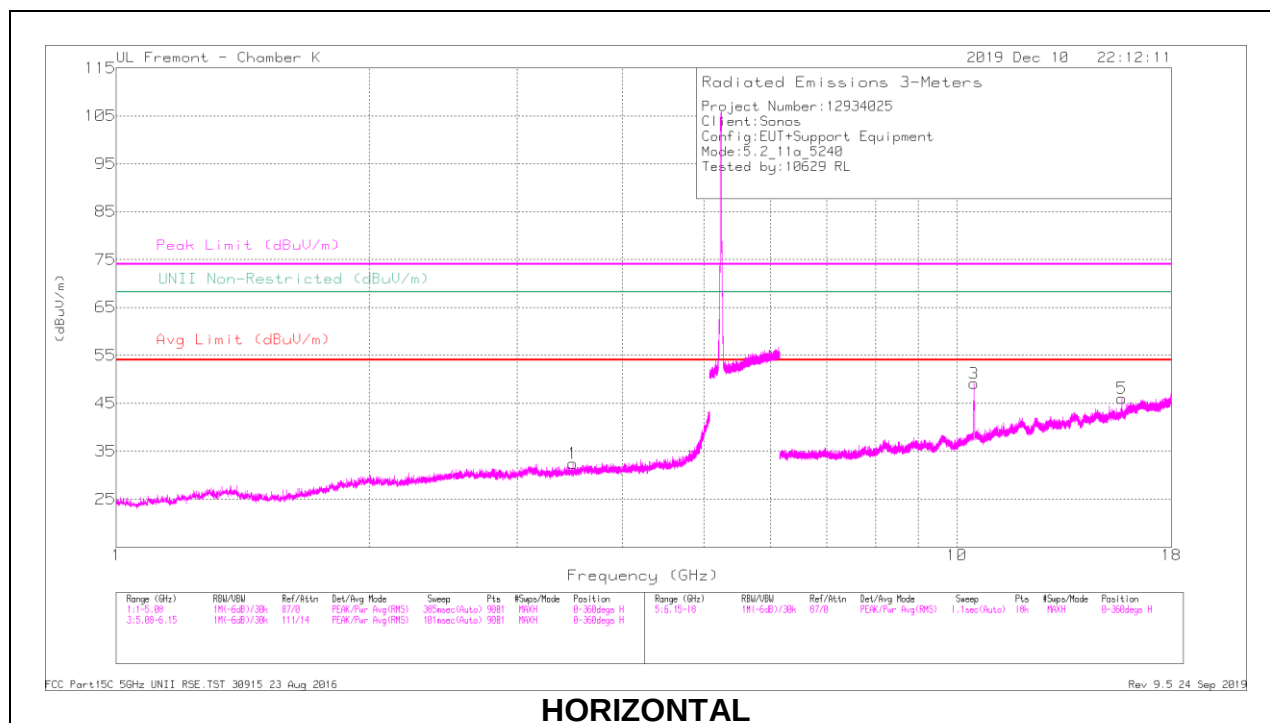
Marker	Frequency (MHz)	Meas Reading (dBuV)	Det	AF EMC4234 (dBm)	Amp/CB/Fit/Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unl Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.46656	41.69	PK-U	33.1	-32.9	41.89	-	-	-	-	68.2	-26.31	330	102	H
2	3.46672	43.68	PK-U	33.1	-32.9	43.88	-	-	-	-	68.2	-24.32	271	173	V
3	10.39935	44.84	PK-U	37.5	-22.9	59.44	-	-	-	-	68.2	-8.76	218	226	H
5	* 15.59851	33.04	PK-U	40.1	-18.6	54.54	-	-	74	-19.46	-	-	295	193	H
	* 15.59692	22.13	ADR	40.1	-18.6	43.63	54	-10.37	-	-	-	-	295	193	H
4	10.39516	46.17	PK-U	37.5	-22.9	60.77	-	-	-	-	68.2	-7.43	192	96	V
	* 15.59595	30.91	PK-U	40.1	-18.6	52.41	-	-	74	-21.59	-	-	195	306	V
6	* 15.59586	19.88	ADR	40.1	-18.6	41.38	54	-12.62	-	-	-	-	195	306	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 (MHz)	Meter Reading (dBμV)	Det	AF 6Mhz/25K (dBm)	AmplCoEff1stPad (dB)	Corrected Reading (dBμV/m)	Avg Limit (dBμV/m)	Margin (dB)	Peak Limit (dBμV/m)	PK Margin (dB)	UNII Non-Restricted (dBμV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	3.49314	39.62	PK-U	33	-32.7	39.92	-	-	-	-	68.2	-28.28	333	165	H
2	3.49329	43.97	PK-U	33	-32.7	44.27	-	-	-	-	68.2	-23.93	260	184	V
3	10.47854	44.36	PK-U	37.7	-22.9	59.16	-	-	-	-	68.2	-9.04	216	195	H
5	* 15.71829	33.19	PK-U	40	-17.8	55.39	-	-	74	-18.61	-	-	295	191	H
	* 15.71916	22.17	ADR	40	-17.8	44.37	54	-9.63	-	-	-	-	295	191	H
4	10.47617	45.21	PK-U	37.7	-22.9	60.01	-	-	-	-	68.2	-8.19	193	107	V
	* 15.71937	30.93	PK-U	40	-17.8	53.13	-	-	74	-20.87	-	-	189	107	V
6	* 15.72095	20.14	ADR	40	-17.8	42.34	54	-11.66	-	-	-	-	188	107	V

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

PK-U - U-NII: Maximum Peak

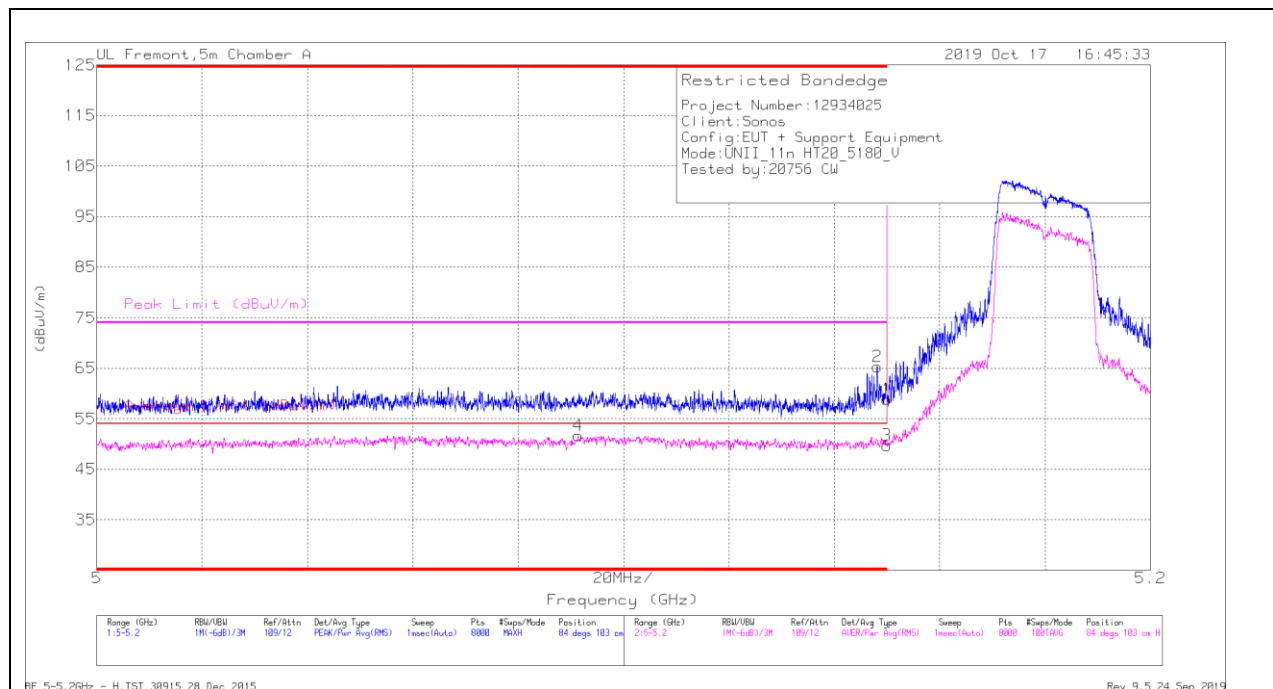
ADR - U-NII AD primary method, RMS average

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

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



Trace Markers

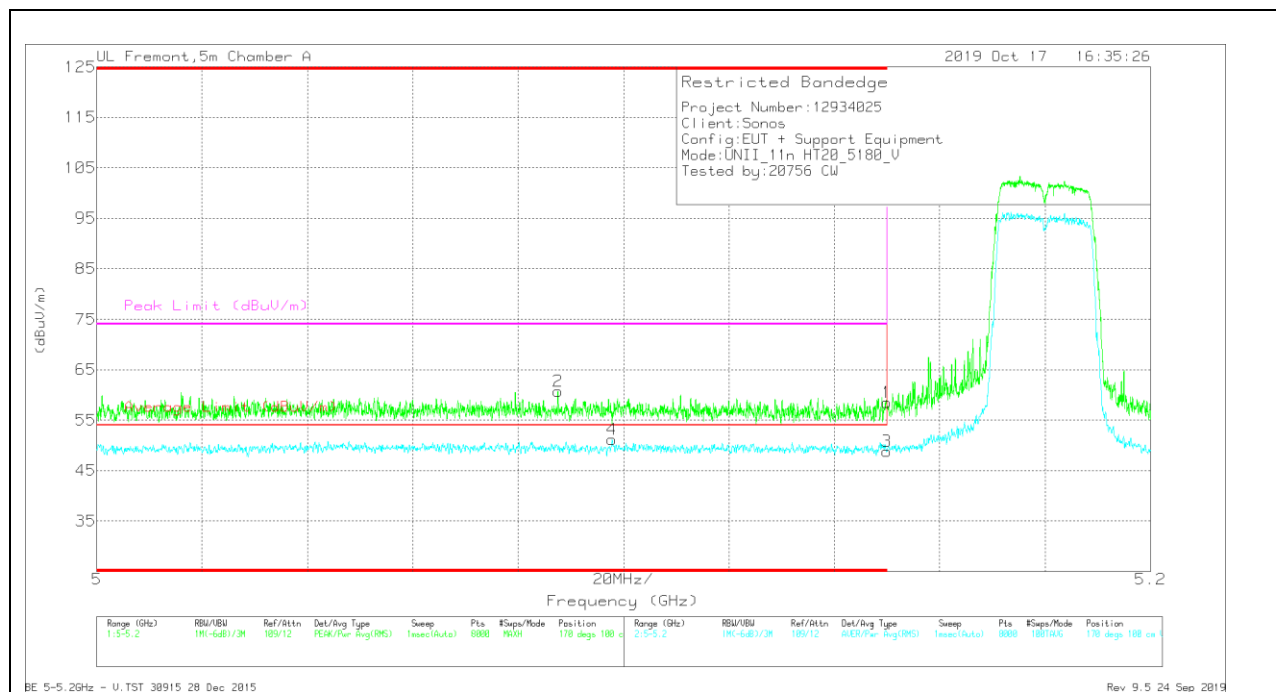
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.09139	33.54	RMS	34.4	-16.6	.31	51.65	54	-2.35	-	-	84	103	H
2	* 5.14814	47.66	Pk	34.5	-16.8	0	65.36	-	-	74	-8.64	84	103	H
1	* 5.14999	41.09	Pk	34.6	-16.8	0	58.89	-	-	74	-15.11	84	103	H
3	* 5.14999	31.62	RMS	34.6	-16.8	.31	49.73	54	-4.27	-	-	84	103	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 5.08754	42.92	PK	34.4	-16.6	0	60.72	-	-	74	-13.28	170	100	V
4	* 5.09781	32.9	RMS	34.5	-16.6	.31	51.11	54	-2.89	-	-	170	100	V
1	* 5.14999	40.64	PK	34.6	-16.8	0	58.44	-	-	74	-15.56	170	100	V
3	* 5.14999	30.69	RMS	34.6	-16.8	.31	48.8	54	-5.2	-	-	170	100	V

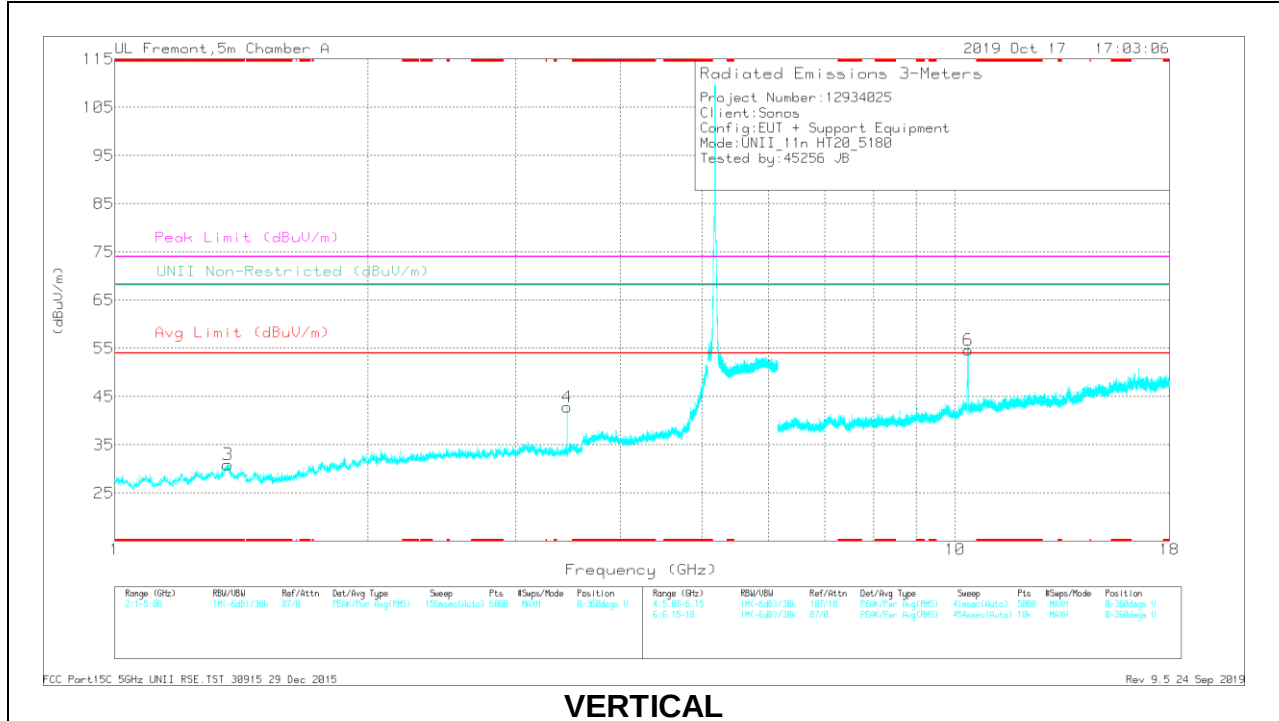
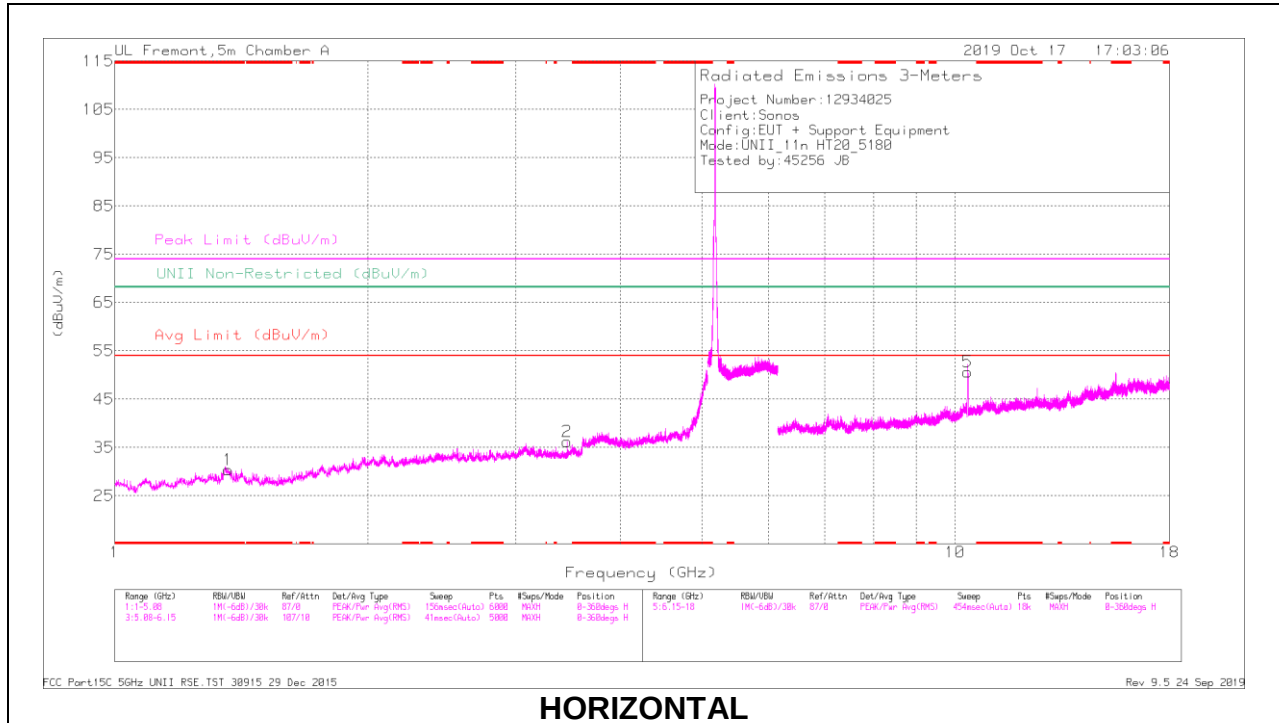
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PK - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

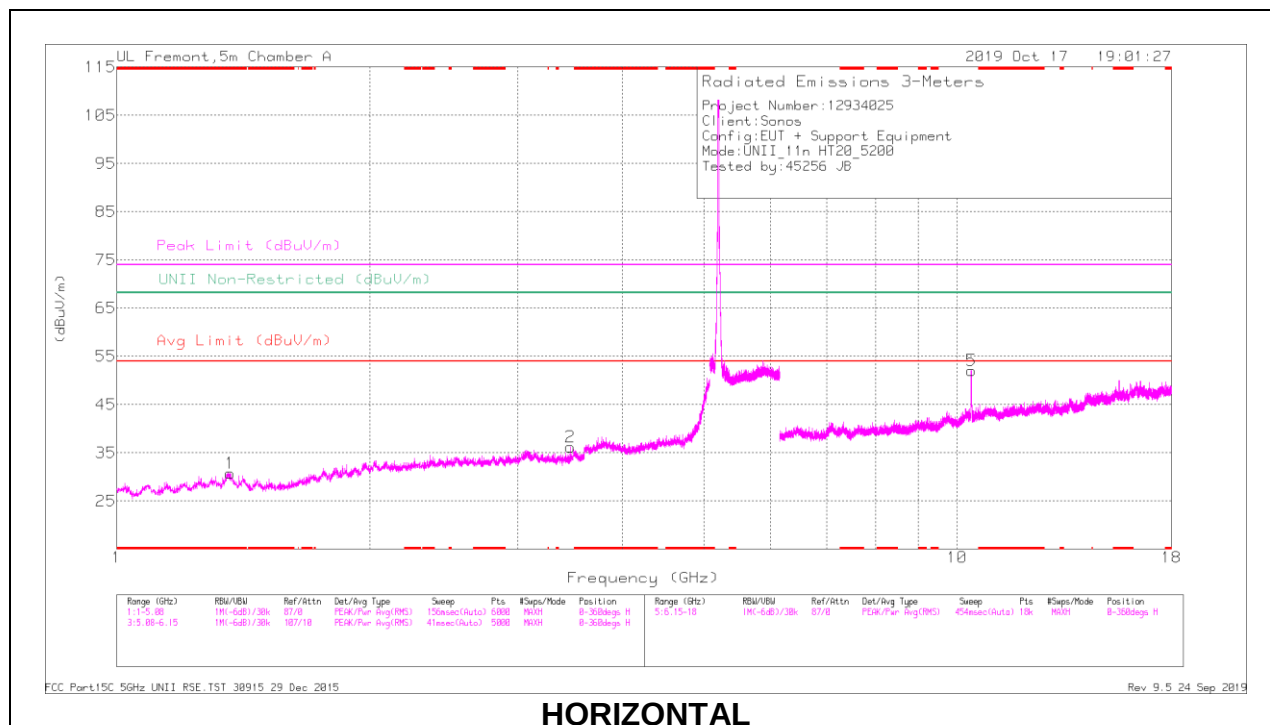
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.36512	39.72	PK-U	29.6	-31.6	0	37.72	-	-	74	-36.28	-	-	303	157	H
	* 1.36366	27.64	ADR	29.6	-31.6	.31	25.95	54	-28.05	-	-	-	-	303	157	H
3	* 1.36499	40.06	PK-U	29.6	-31.6	0	38.06	-	-	74	-35.94	-	-	8	223	V
	* 1.36183	27.77	ADR	29.6	-31.6	.31	26.08	54	-27.92	-	-	-	-	8	223	V
4	3.45312	41.85	PK-U	32.8	-28.9	0	45.75	-	-	-	-	68.2	-22.45	142	235	V
2	3.45319	38.62	PK-U	32.8	-28.9	0	42.52	-	-	-	-	68.2	-25.68	130	234	H
5	10.36163	38.52	PK-U	37.5	-19.9	0	56.12	-	-	-	-	68.2	-12.08	90	107	H
6	10.3646	41.24	PK-U	37.4	-20	0	58.64	-	-	-	-	68.2	-9.56	68	106	V

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

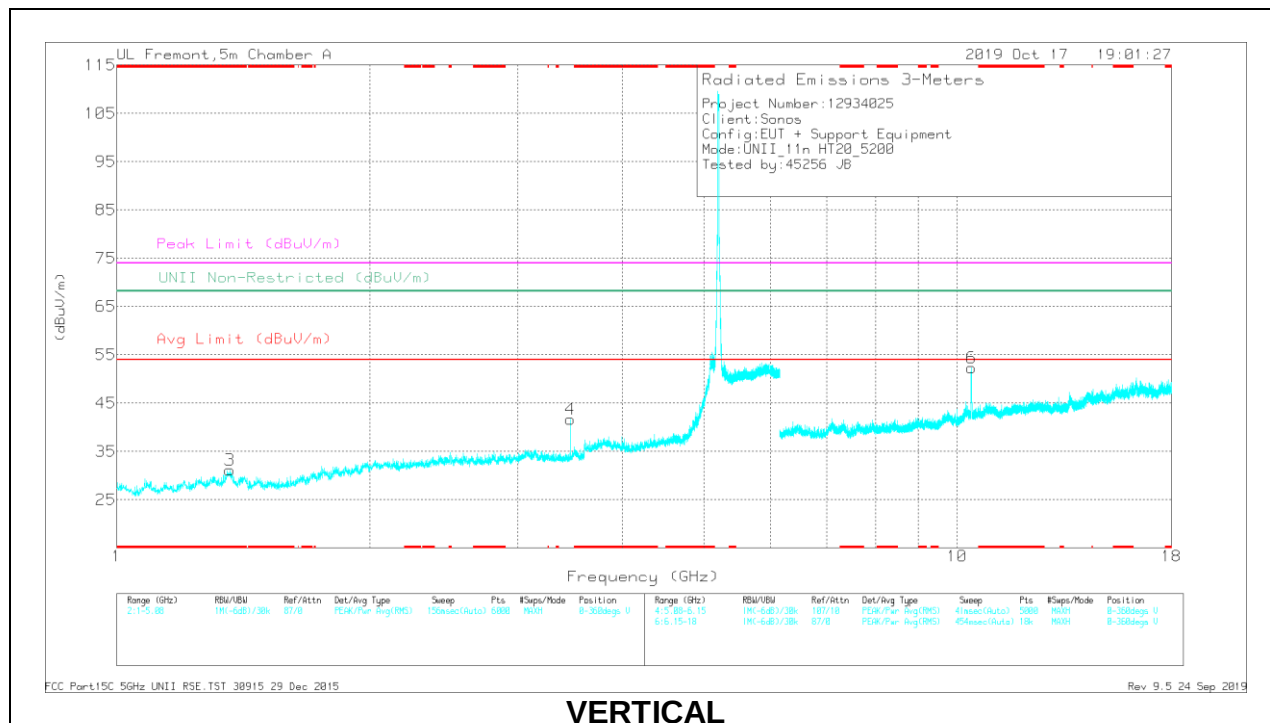
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

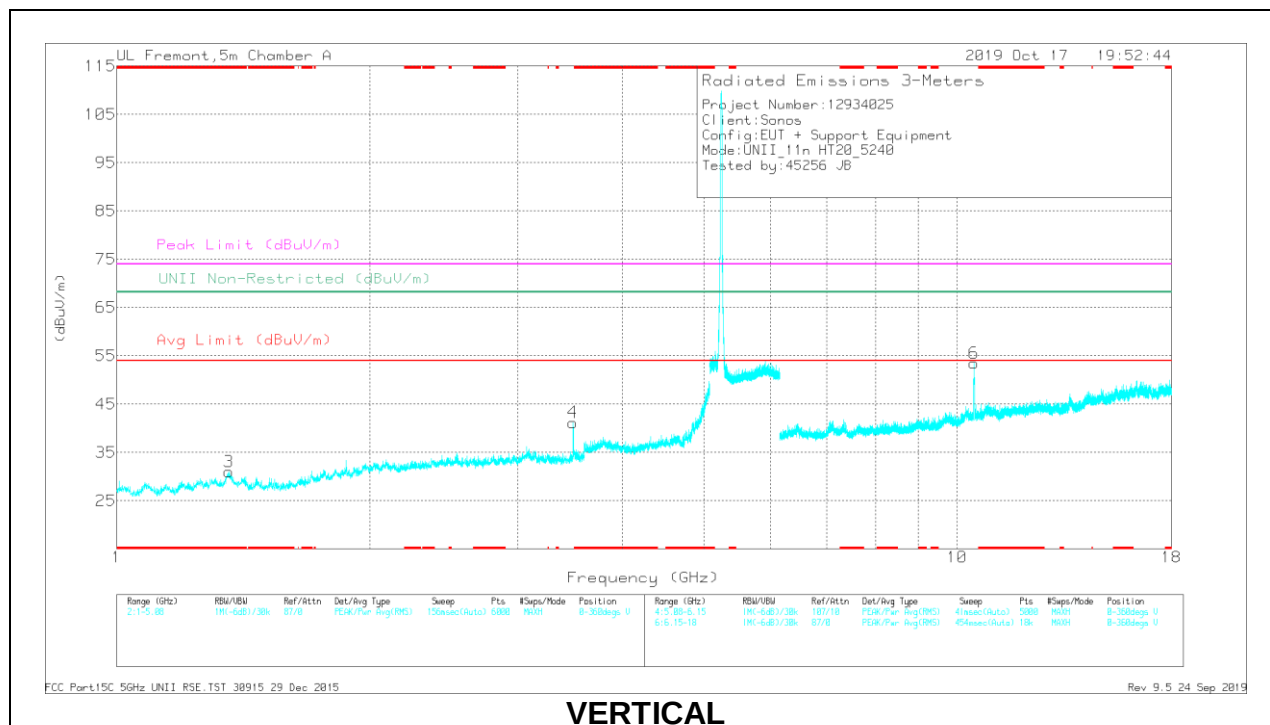
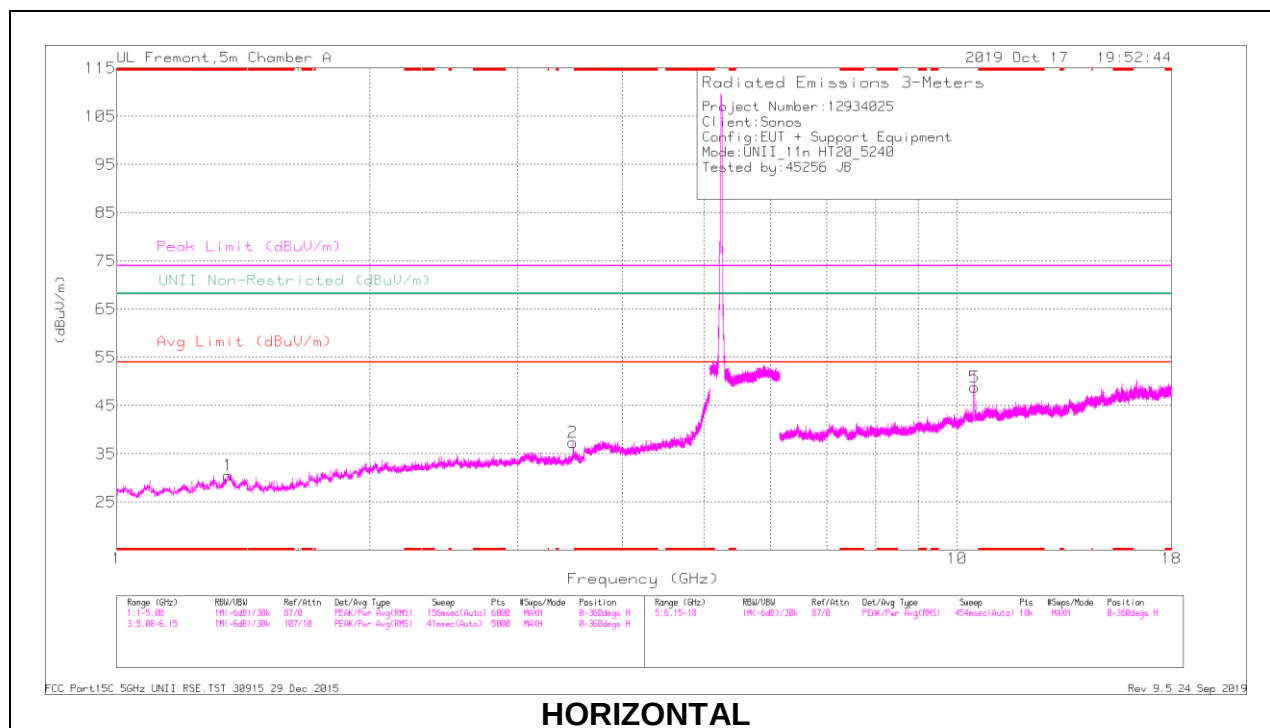
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.36394	39.44	PK-U	29.6	-31.6	0	37.44	-	-	74	-36.56	-	-	348	290	H
	* 1.36298	27.57	ADR	29.6	-31.6	.31	25.88	54	-28.12	-	-	-	-	348	290	H
3	* 1.36128	39.98	PK-U	29.5	-31.6	0	37.88	-	-	74	-36.12	-	-	359	283	V
	* 1.36234	27.64	ADR	29.6	-31.6	.31	25.95	54	-28.05	-	-	-	-	359	283	V
4	3.46653	41.49	PK-U	32.8	-28.6	0	45.69	-	-	-	-	68.2	-22.51	139	230	V
2	3.46668	37.96	PK-U	32.8	-28.6	0	42.16	-	-	-	-	68.2	-26.04	137	245	H
5	10.39912	43.24	PK-U	37.6	-20.4	0	60.44	-	-	-	-	68.2	-7.76	57	223	H
6	10.39916	42.76	PK-U	37.6	-20.4	0	59.96	-	-	-	-	68.2	-8.24	68	104	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 T346 (dB/m)	Amp/Cb/Fitr/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	* 1.35902	39.58	PK-U	29.5	-31.6	0	37.48	-	-	74	-36.52	-	-	0	275	H
	* 1.359	27.74	ADR	29.6	-31.6	.31	26.05	54	-27.95	-	-	-	-	0	275	H
3	* 1.36062	39.86	PK-U	29.5	-31.6	0	37.76	-	-	74	-36.24	-	-	204	207	V
	* 1.36044	27.76	ADR	29.5	-31.6	.31	25.97	54	-28.03	-	-	-	-	204	207	V
2	3.49332	40.74	PK-U	33.3	-28.5	0	45.54	-	-	-	-	68.2	-22.66	135	216	V
	3.49337	38.25	PK-U	33.3	-28.5	0	43.05	-	-	-	-	68.2	-25.15	137	257	H
4	10.47915	41.54	PK-U	37.7	-20.2	0	59.04	-	-	-	-	68.2	-9.16	66	186	V
	10.48011	38.91	PK-U	37.7	-20.3	0	56.31	-	-	-	-	68.2	-11.89	96	277	H
6	* 1.35902	39.58	PK-U	29.5	-31.6	0	37.48	-	-	74	-36.52	-	-	0	275	H
	* 1.359	27.74	ADR	29.6	-31.6	.31	26.05	54	-27.95	-	-	-	-	0	275	H
5	* 1.36062	39.86	PK-U	29.5	-31.6	0	37.76	-	-	74	-36.24	-	-	204	207	V
	* 1.36044	27.76	ADR	29.5	-31.6	.31	25.97	54	-28.03	-	-	-	-	204	207	V

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

PK-U - U-NII: Maximum Peak

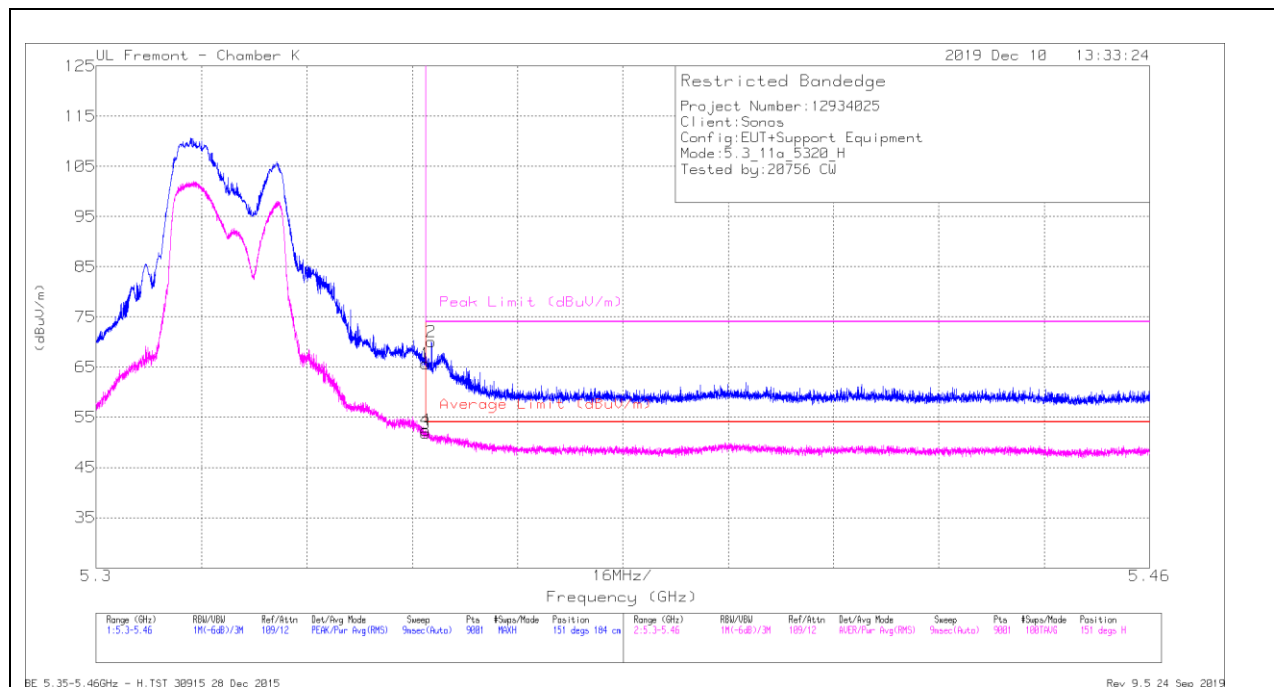
ADR - U-NII AD primary method, RMS average

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

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

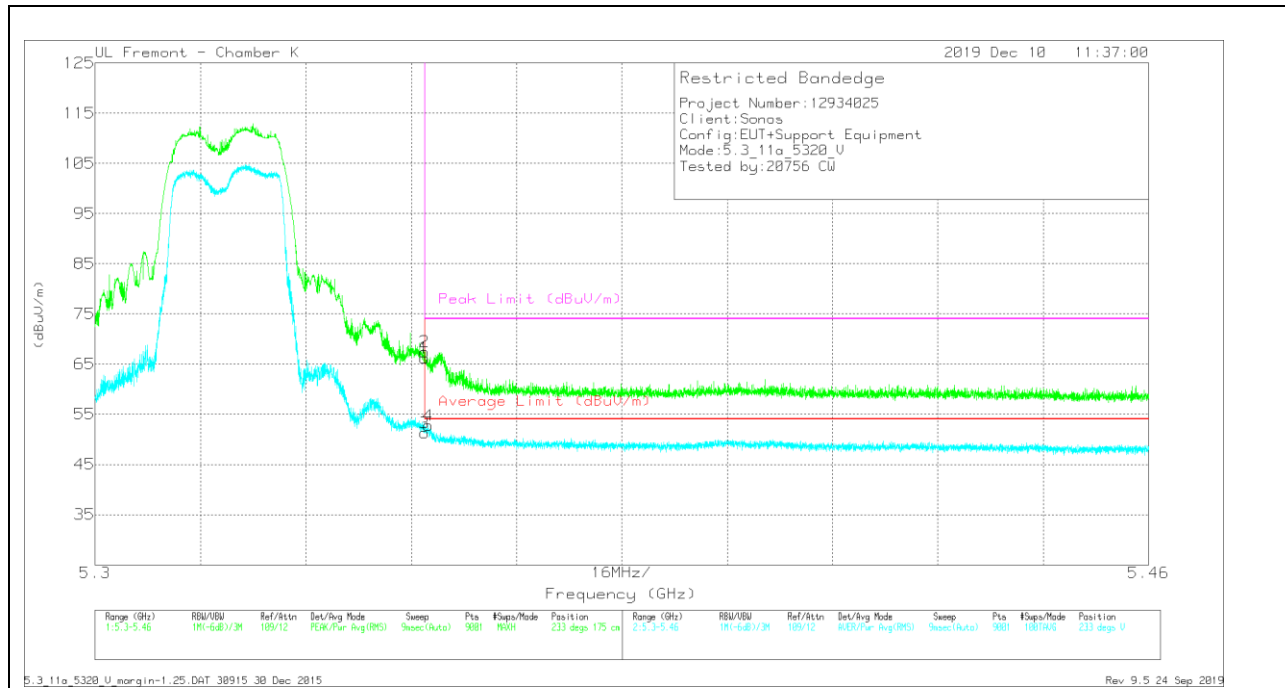
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Amp/Cbl/Ftr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	39.23	Pk	34.4	-7.9	65.73	-	-	74	-8.27	151	184	H
2	* 5.35093	43.52	Pk	34.4	-7.9	70.02	-	-	74	-3.98	151	184	H
3	* 5.35001	25.26	RMS	34.4	-7.9	51.76	54	-2.24	-	-	151	184	H
4	* 5.35006	25.93	RMS	34.4	-7.9	52.43	54	-1.57	-	-	151	184	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dB/m)	Ampl/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	* 5.35001	39.69	Pk	34.4	-7.9	66.19	-	-	74	-7.81	233	175	V
2	* 5.35008	40.96	Pk	34.4	-7.9	67.46	-	-	74	-6.54	233	175	V
3	* 5.35001	24.75	RMS	34.4	-7.9	51.25	54	-2.75	-	-	233	175	V
4	* 5.35006	26.25	RMS	34.4	-7.9	52.75	54	-1.25	-	-	233	175	V

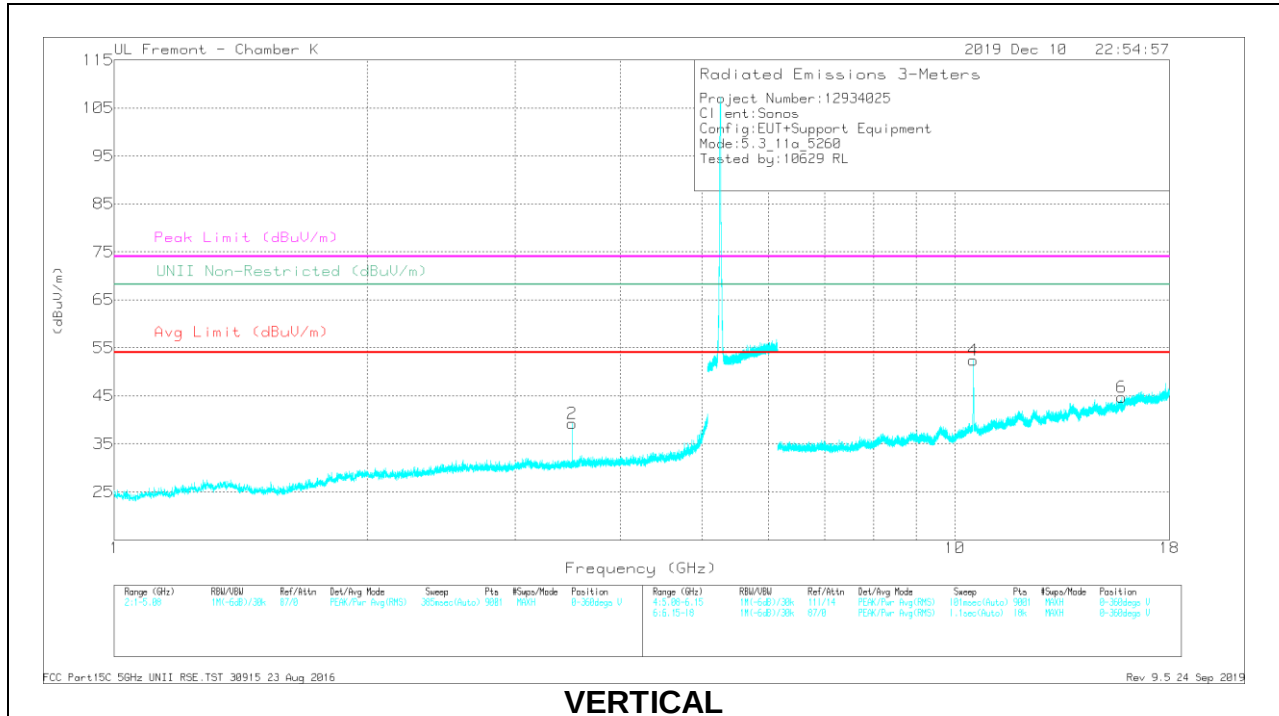
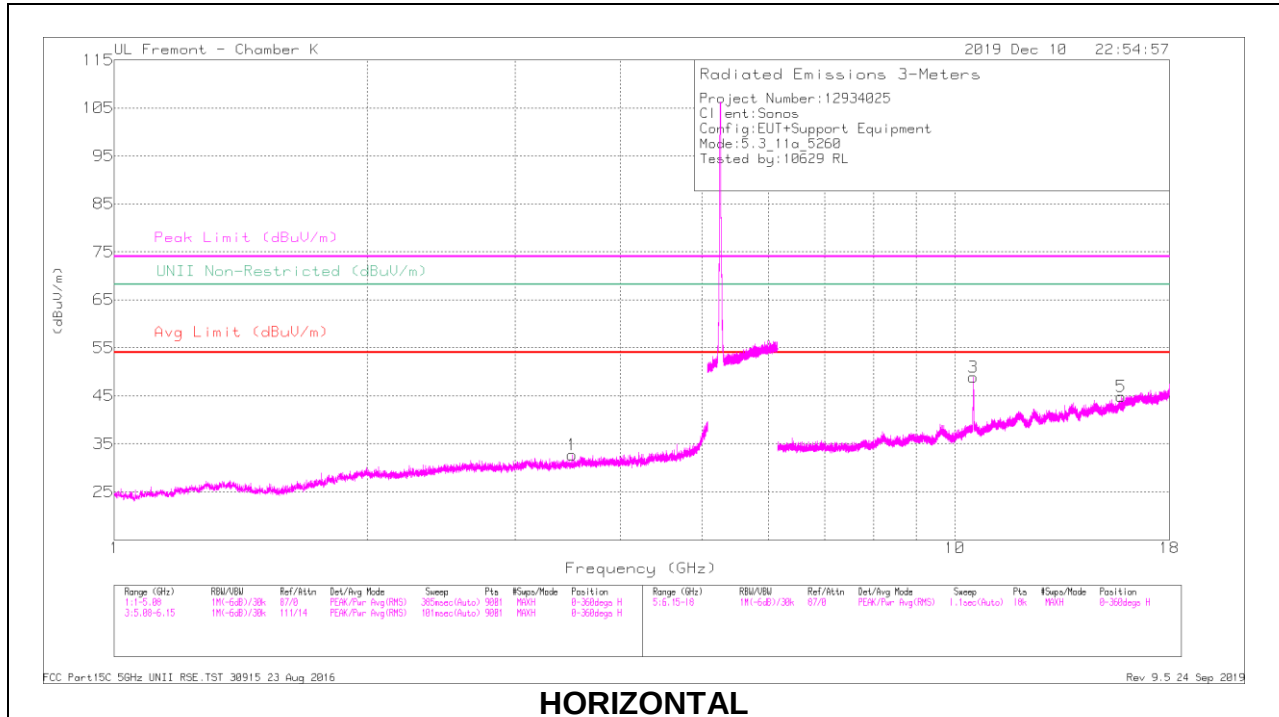
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



RADIATED EMISSIONS

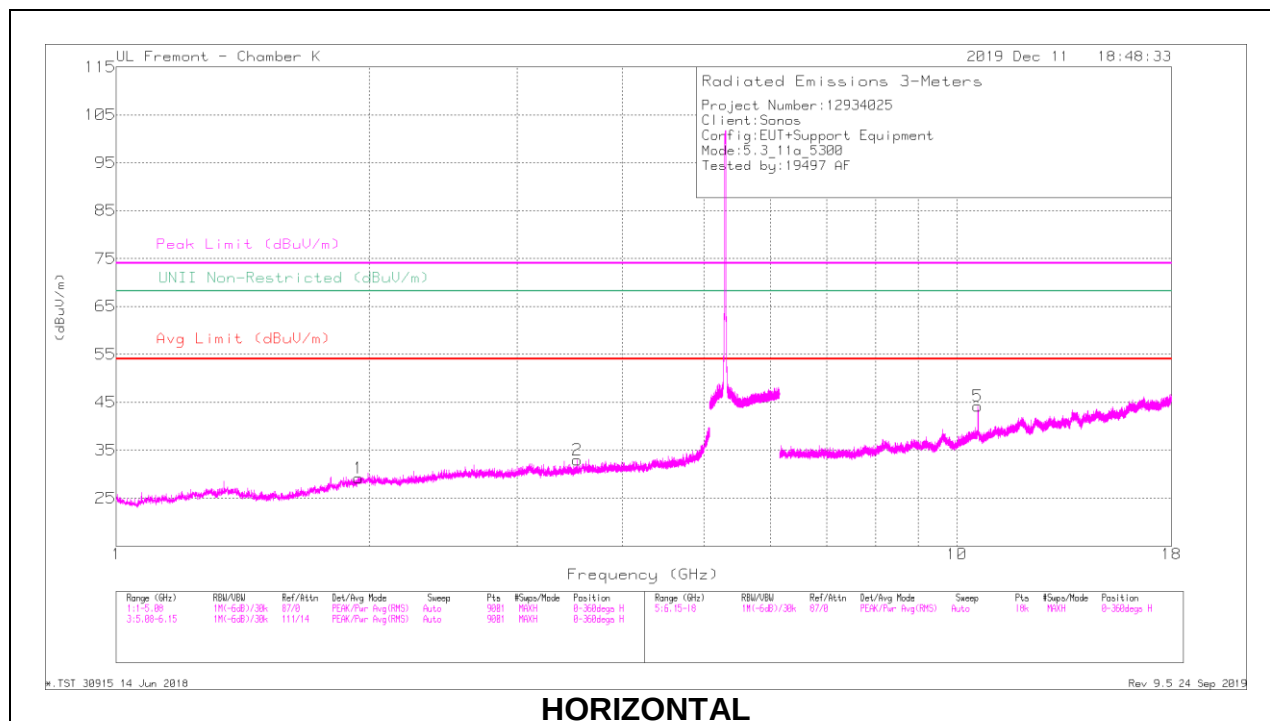
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dBm)	Amp/Cable/Filter Pad (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Unii Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 3.50673	39.83	PK-U	33.1	-32.8	40.13	-	-	74	-33.87	-	-	329	96	H
	* 3.50666	31.81	ADR	33.1	-32.8	32.11	54	-21.89	-	-	-	-	329	96	H
	* 3.50689	42.94	PK-U	33.1	-32.8	43.24	-	-	74	-30.76	-	-	263	172	V
2	* 3.50666	38.19	ADR	33.1	-32.8	38.49	54	-15.51	-	-	-	-	263	172	V
	10.51975	43.73	PK-U	37.7	-22.5	58.93	-	-	-	-	68.2	-9.27	216	198	H
	* 15.77667	33.48	PK-U	40.1	-18.1	55.48	-	-	74	-18.52	-	-	294	263	H
5	* 15.77771	22.27	ADR	40.1	-18	44.37	54	-9.63	-	-	-	-	294	263	H
	10.52068	43.49	PK-U	37.7	-22.5	58.69	-	-	-	-	68.2	-9.51	197	132	V
	* 15.78034	32.4	PK-U	40.1	-18	54.5	-	-	74	-19.5	-	-	189	98	V
6	* 15.78142	20.46	ADR	40.1	-18	42.56	54	-11.44	-	-	-	-	189	98	V

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

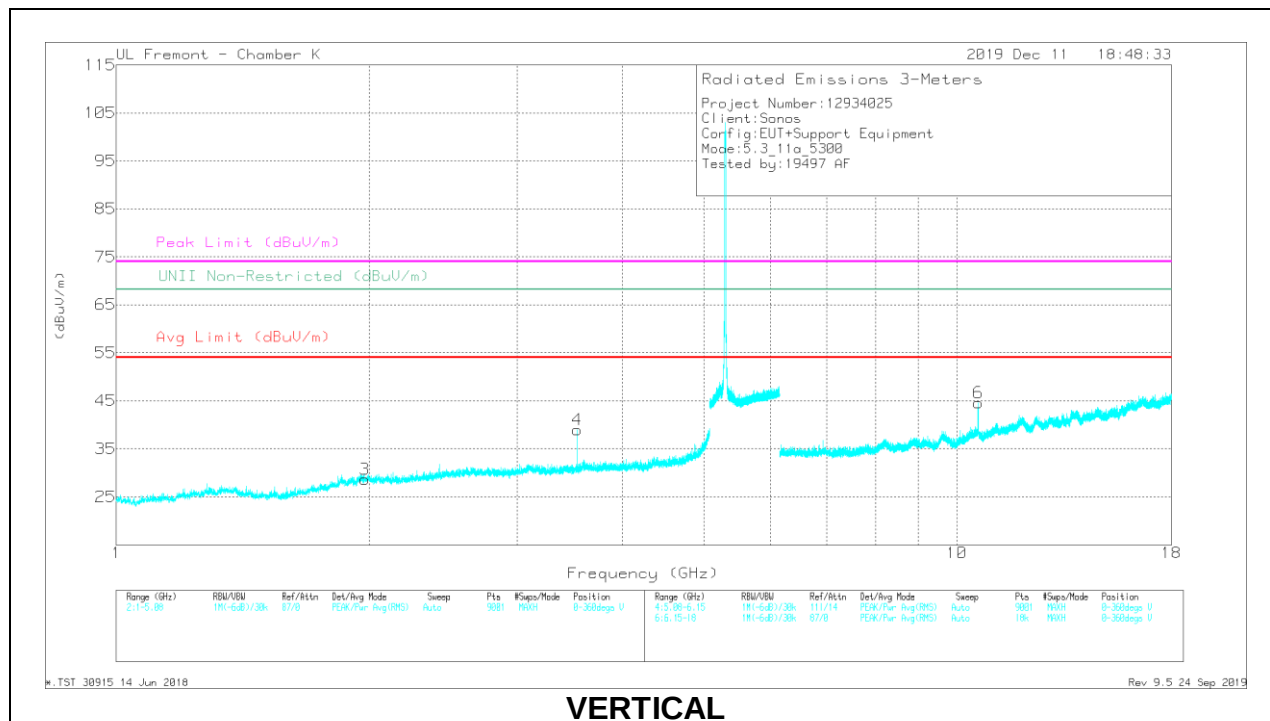
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

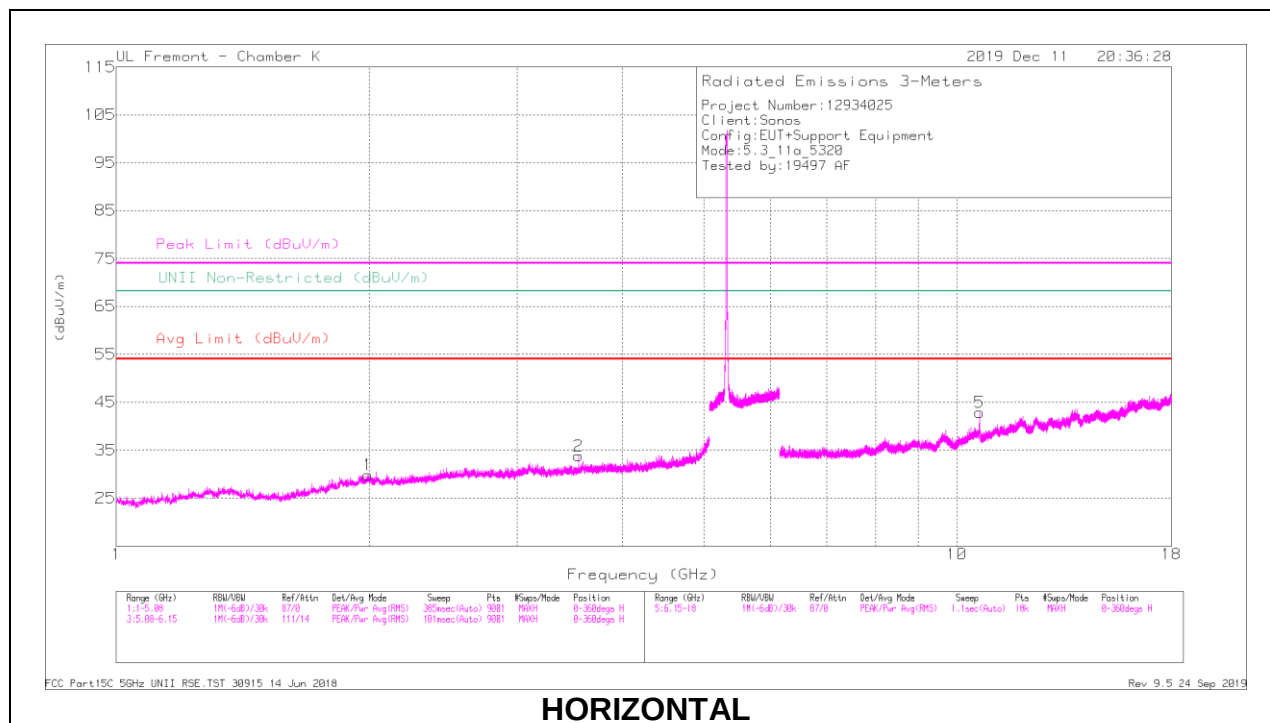
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dBm)	Amp/ChIRP/Pad (dB)	DC Corr (dB)	Correction Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarization
2	* 3.53304	39.86	PK-U	33.1	-32.6	0	40.36	-	-	74	-33.64	-	-	26	106	H
	* 3.5333	31.18	ADR	33.1	-32.6	0	31.68	54	-22.32	-	-	-	-	26	106	H
1	1.94376	40.64	PK-U	31.3	-35.2	0	36.74	-	-	-	-	68.2	-31.46	0	147	H
	* 3.53334	42.74	PK-U	33.1	-32.6	0	43.24	-	-	74	-30.76	-	-	300	112	V
4	* 3.53334	37.8	ADR	33.1	-32.6	0	39.3	54	-15.7	-	-	-	-	300	112	V
3	1.97472	40.71	PK-U	31.6	-35.2	0	37.11	-	-	-	-	68.2	-31.09	103	196	V
5	10.59758	37.35	PK-U	37.8	-22.5	0	52.65	-	-	-	-	68.2	-15.55	251	197	H
	* 11.57545	31.32	PK-U	38.4	-20.9	0	48.82	-	-	74	-25.18	-	-	180	105	V
6	* 11.83731	20.83	ADR	38.7	-20.8	0	38.73	54	-15.27	-	-	-	-	180	105	V

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

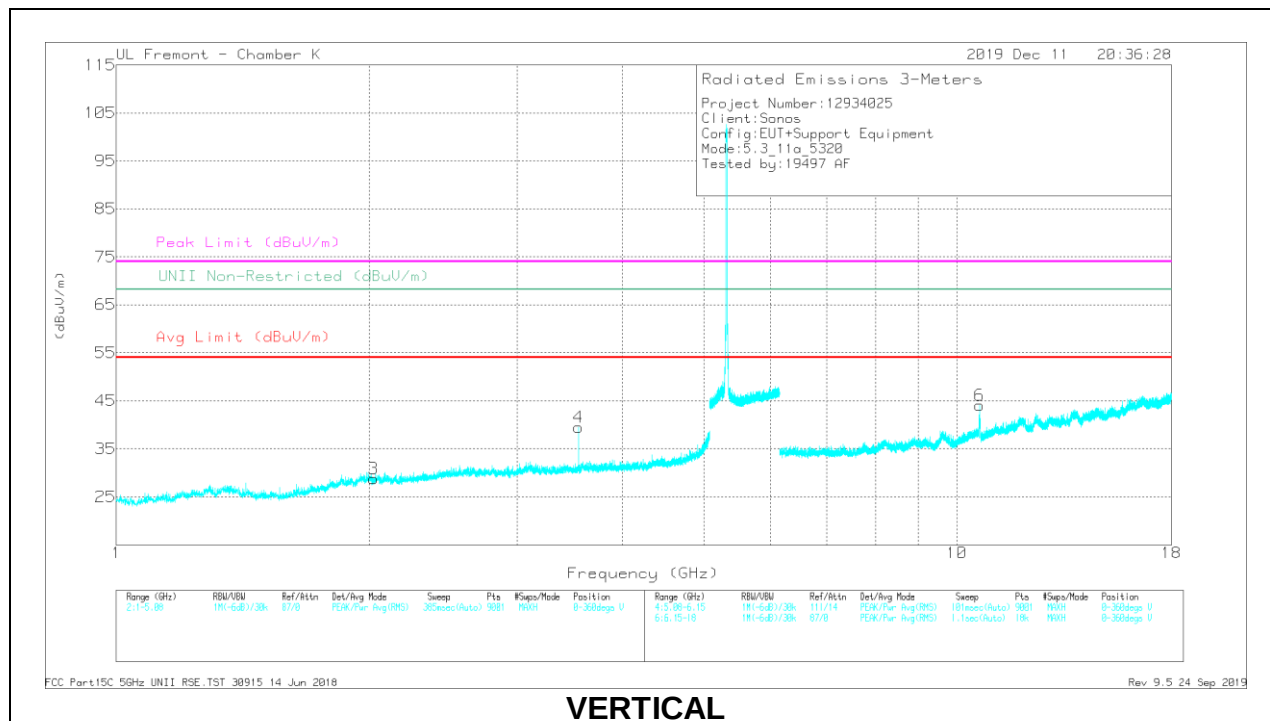
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Markers	Frequency (GHz)	Meter Reading (dBuV)	Det	AF EMC4294 (dBm)	Amp/Chirp/Pad (dB)	DC Corr (dB)	Correction 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 (Deg)	Height (cm)	Polarization
1	1.99103	40.88	PK-U	31.6	-35.2	0	37.28	-	-	-	-	68.2	-30.92	314	261	H
2	* 3.54691	39.9	PK-U	33.2	-32.5	0	40.6	-	-	74	-33.4	-	-	261	301	H
	* 3.54666	30.67	ADR	33.2	-32.5	0	31.37	54	-22.63	-	-	-	-	261	301	H
4	* 3.54668	43.25	PK-U	33.2	-32.5	0	43.95	-	-	74	-30.05	-	-	299	122	V
	* 3.54665	30.10	ADR	33.2	-32.5	0	38.98	54	-15.12	-	-	-	-	299	122	V
3	2.0231	41.01	PK-U	31.4	-35.1	0	37.31	-	-	-	-	68.2	-30.89	103	173	V
	* 10.63698	38.95	PK-U	37.8	-22.8	0	53.95	-	-	74	-20.05	-	-	252	207	H
5	* 10.63763	28.49	ADR	37.8	-22.8	0	43.49	54	-10.51	-	-	-	-	252	207	H
	* 10.63624	40.36	PK-U	37.8	-22.8	0	55.36	-	-	74	-18.64	-	-	222	99	V
6	* 10.63787	28.3	ADR	37.9	-22.8	0	43.4	54	-10.6	-	-	-	-	222	99	V

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

PK-U - U-NII: Maximum Peak

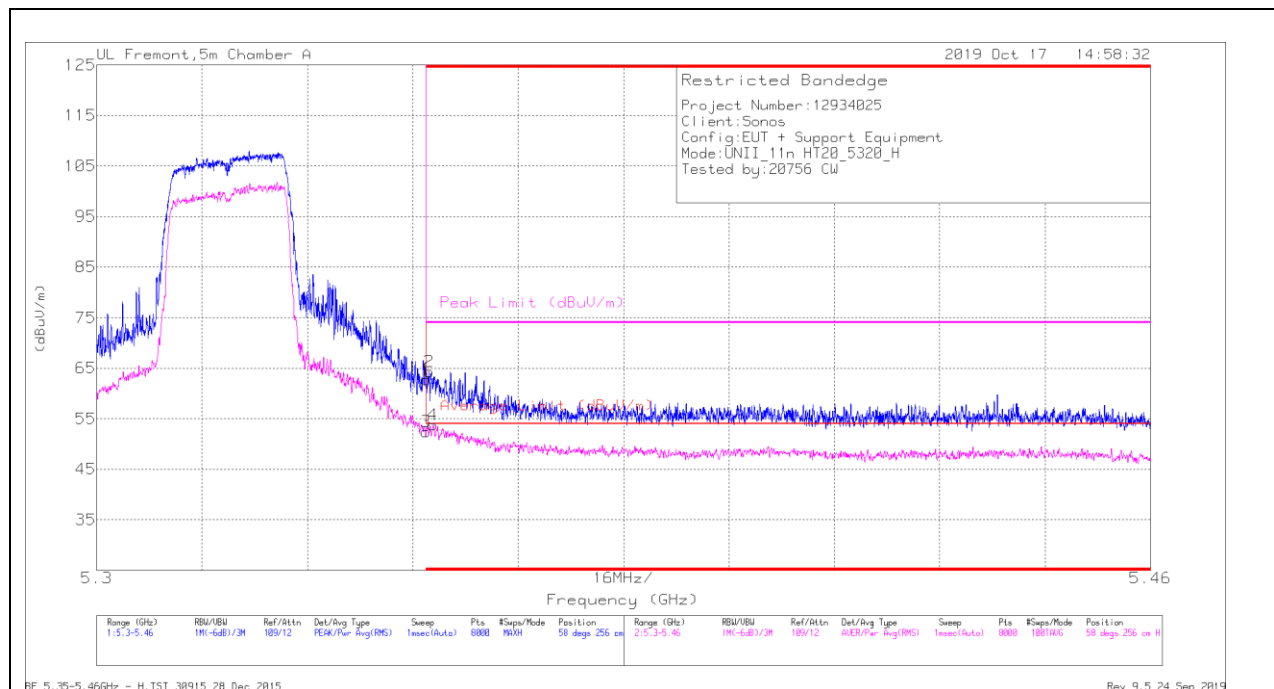
ADR - U-NII AD primary method, RMS average

9.1.4. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 5.3 GHz BAND

4TX Antenna 1 + Antenna 2 + Antenna 3 + Antenna 4 CDD MODE

BANDEDGE (HIGH CHANNEL)

HORIZONTAL RESULT



Trace Markers

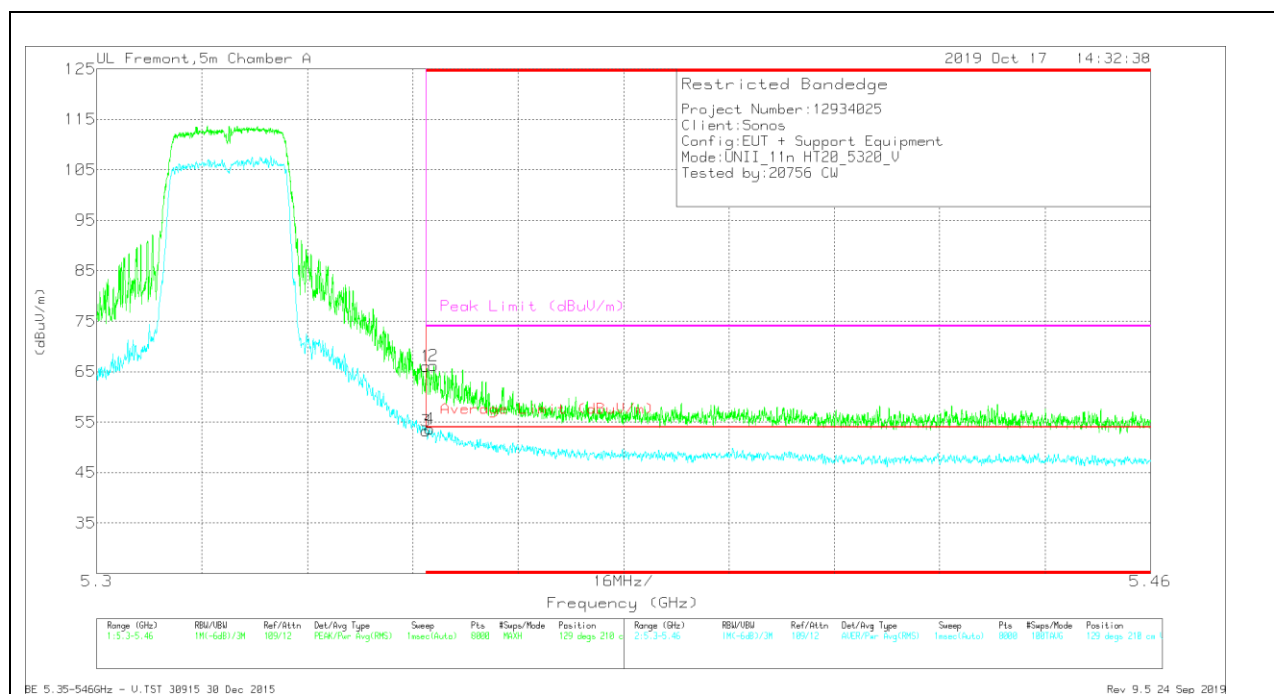
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.35001	45.4	Pk	35	-17.7	0	62.7	-	-	74	-11.3	58	256	H
2	* 5.35047	47.04	Pk	35	-17.7	0	64.34	-	-	74	-9.66	58	256	H
3	* 5.35001	34.78	RMS	35	-17.7	.31	52.39	54	-1.61	-	-	58	256	H
4	* 5.35109	36.2	RMS	35	-17.7	.31	53.81	54	-1.19	-	-	58	256	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (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	* 5.35001	48.8	Pk	35	-17.7	0	66.1	-	-	74	-7.9	129	210	V
2	* 5.35117	48.92	Pk	35	-17.7	0	66.22	-	-	74	-7.78	129	210	V
3	* 5.35001	35.61	RMS	35	-17.7	.31	53.22	54	-7.8	-	-	129	210	V
4	* 5.35055	36.09	RMS	35	-17.7	.31	53.7	54	-7.3	-	-	129	210	V

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

Pk - Peak detector

RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS

