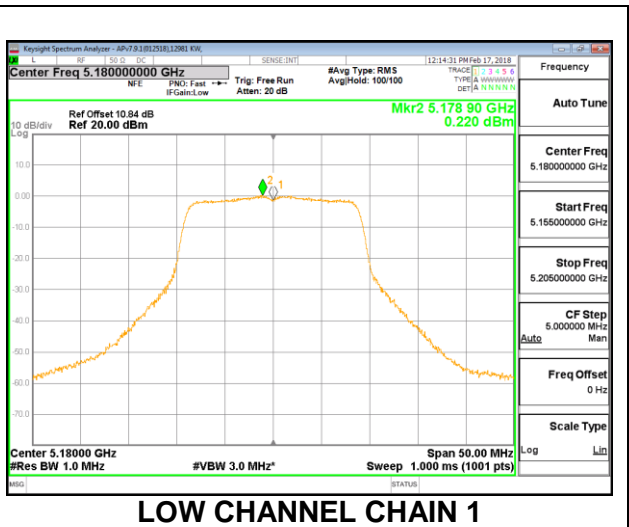
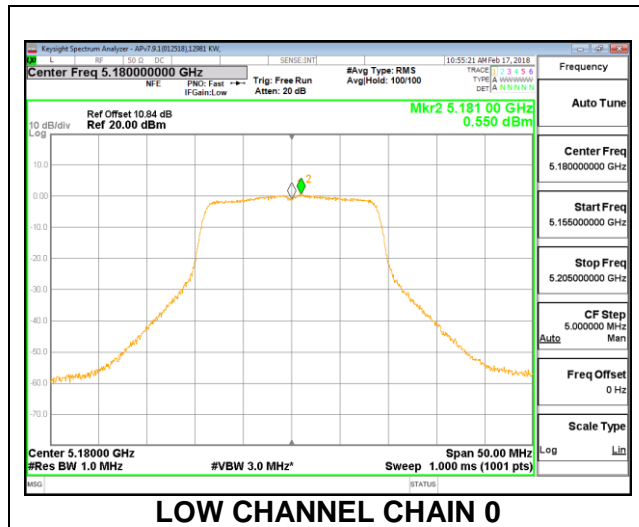
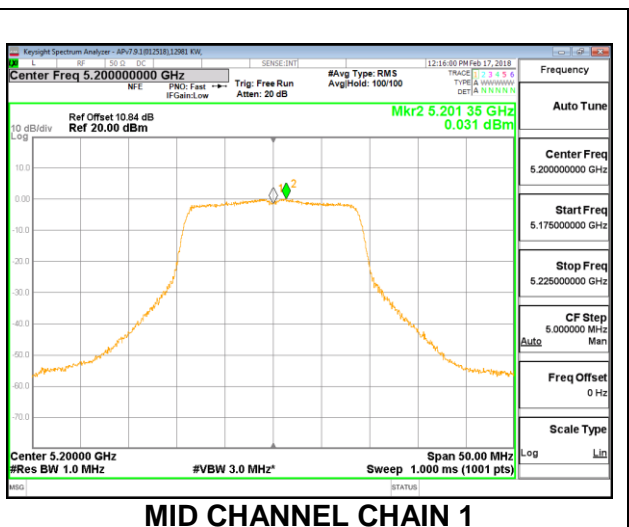
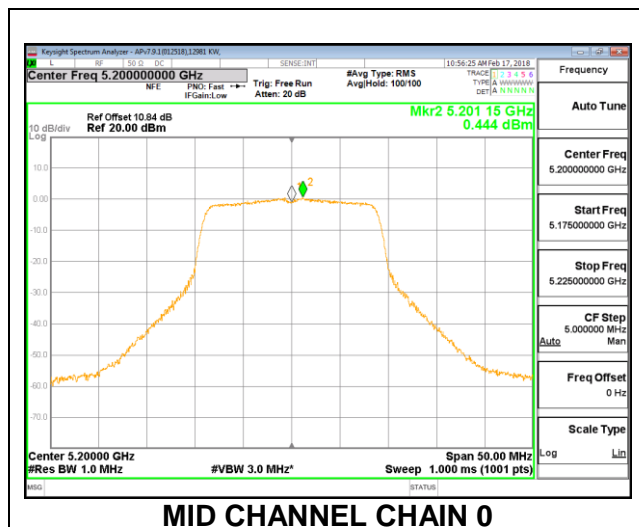


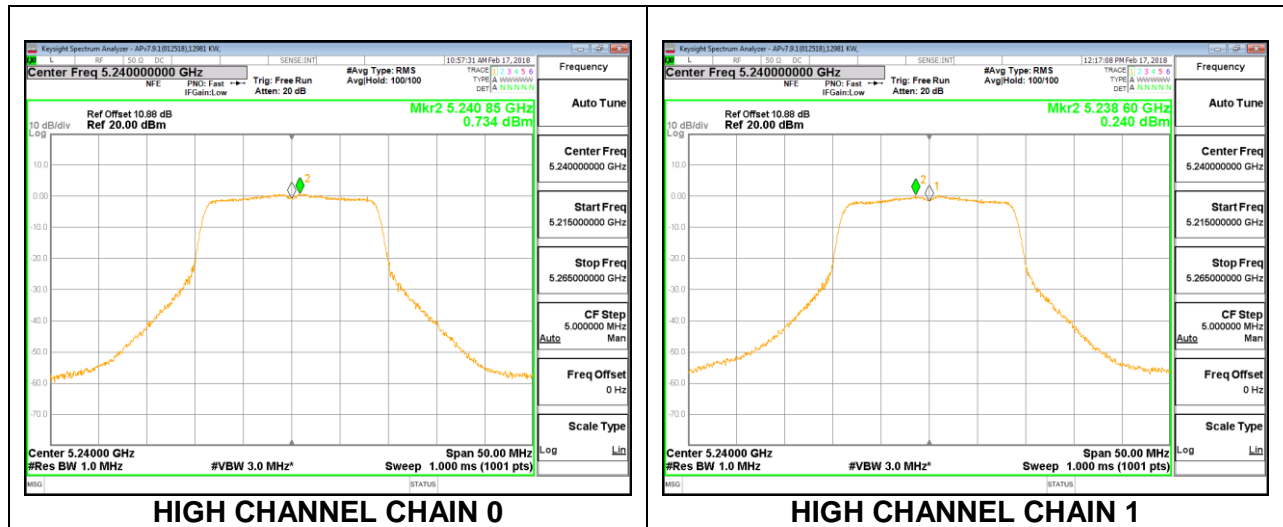
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.3. 802.11n HT40 2TX CDD MODE IN THE 5.2 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5190	36.3020	-2.92	-0.19
High	5230	36.3790	-2.92	-0.19

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Low	5190	24.00	23.00	25.92	24.00	11.00	10.00	10.19
High	5230	24.00	23.00	25.92	24.00	11.00	10.00	10.19

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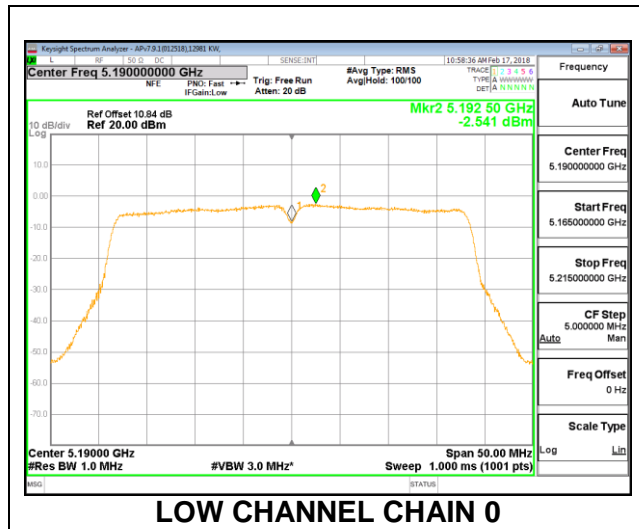
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5190	11.51	10.32	13.97	24.00	-10.03
High	5230	11.51	11.42	14.48	24.00	-9.52

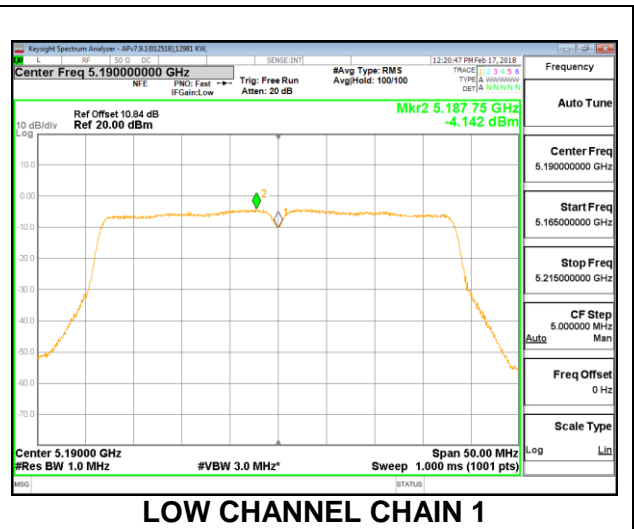
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5190	-2.54	-4.14	0.03	10.19	-10.16
High	5230	-2.38	-3.07	0.59	10.19	-9.60

LOW CHANNEL

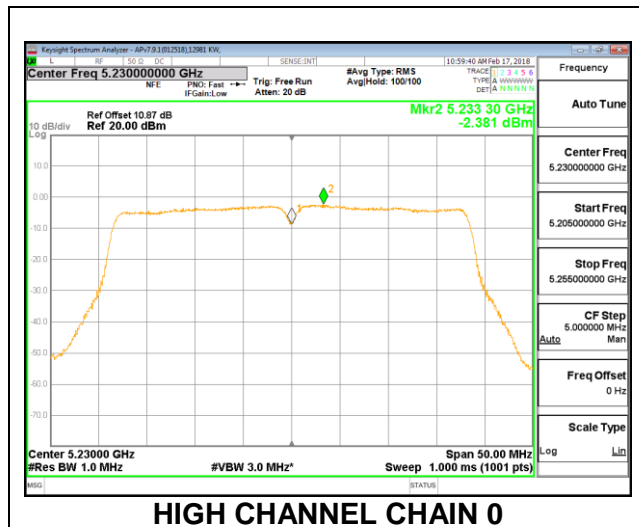


LOW CHANNEL CHAIN 0

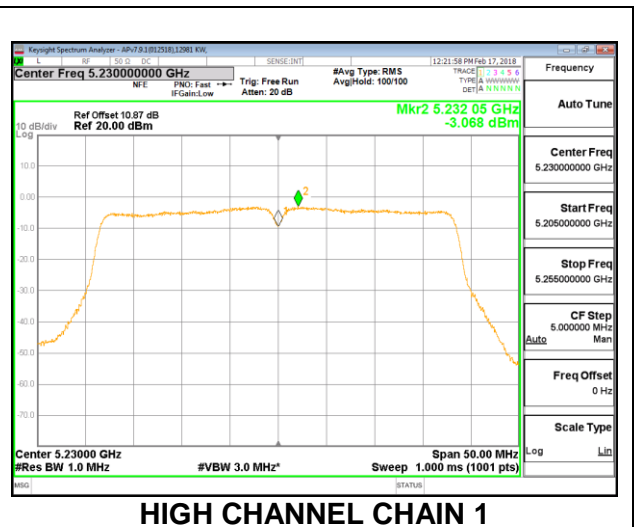


LOW CHANNEL CHAIN 1

HIGH CHANNEL



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

8.5.4. 802.11ac VHT80 2TX CDD MODE IN THE 5.2 GHZ BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Mid	5210	76.1460	-2.92	-0.19

Limits

Channel	Frequency (MHz)	FCC Power Limit (dBm)	ISED EIRP Limit (dBm)	Max ISED Power (dBm)	Power Limit (dBm)	FCC PSD Limit (dBm/ 1MHz)	ISED eirp PSD Limit (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)
Mid	5210	24.00	23.00	25.92	24.00	11.00	10.00	10.19

Duty Cycle CF (dB)	0.53	Included in Calculations of Corr'd Power & PSD
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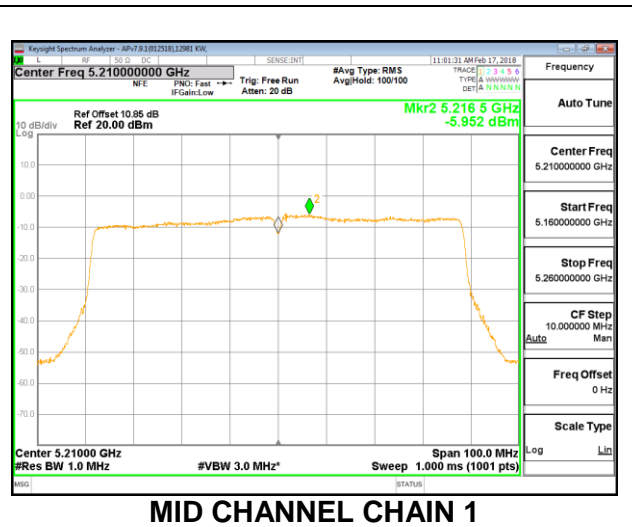
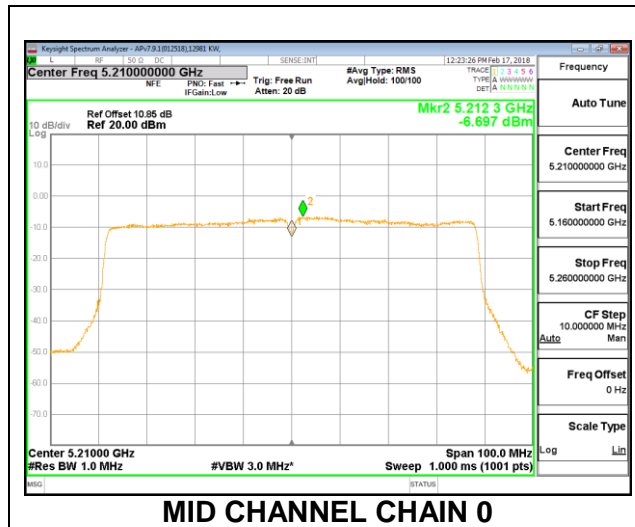
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5210	10.43	11.12	13.80	24.00	-10.20

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Mid	5210	-6.70	-5.95	-2.77	10.19	-12.96

MID CHANNEL



8.5.5. 802.11a 2TX CDD MODE IN THE 5.3 GHz BAND

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	5260	21.70	-2.92	-0.19	24.00	11.00
Mid	5300	20.85	-2.92	-0.19	24.00	11.00
High	5320	20.85	-2.92	-0.19	24.00	11.00

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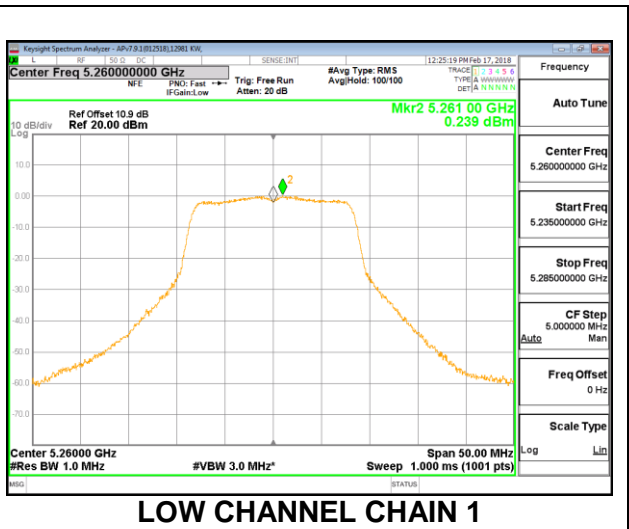
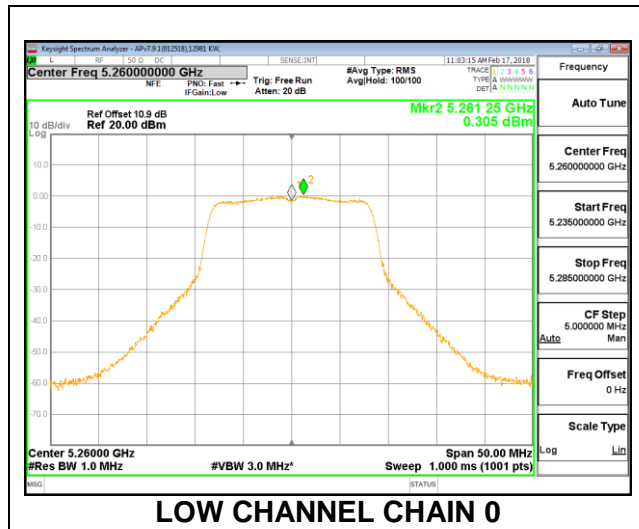
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	10.78	10.52	13.66	24.00	-10.34
Mid	5300	10.71	10.42	13.58	24.00	-10.42
High	5320	10.73	10.34	13.55	24.00	-10.45

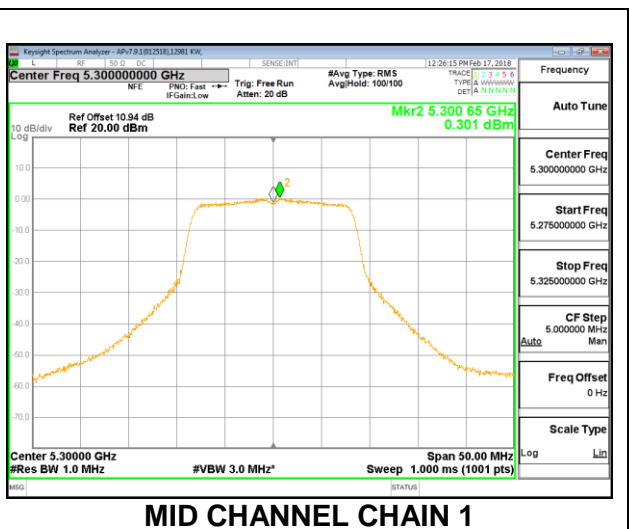
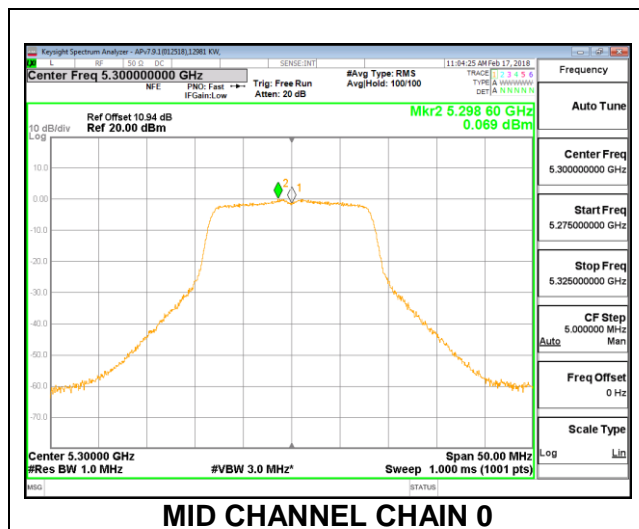
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	0.31	0.24	3.28	11.00	-7.72
Mid	5300	0.07	0.30	3.20	11.00	-7.80
High	5320	0.36	0.12	3.25	11.00	-7.75

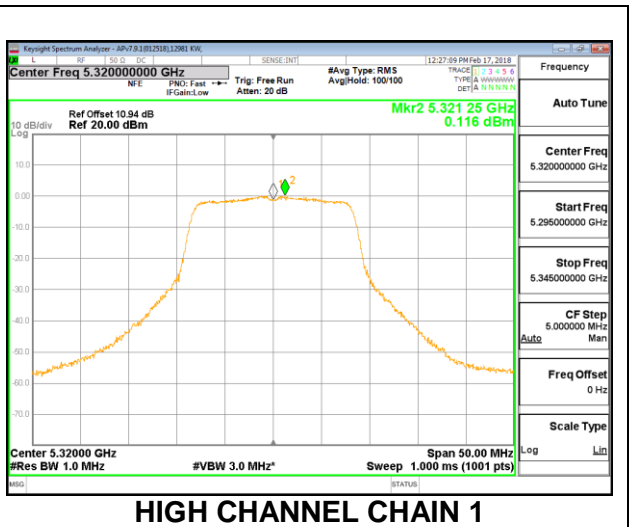
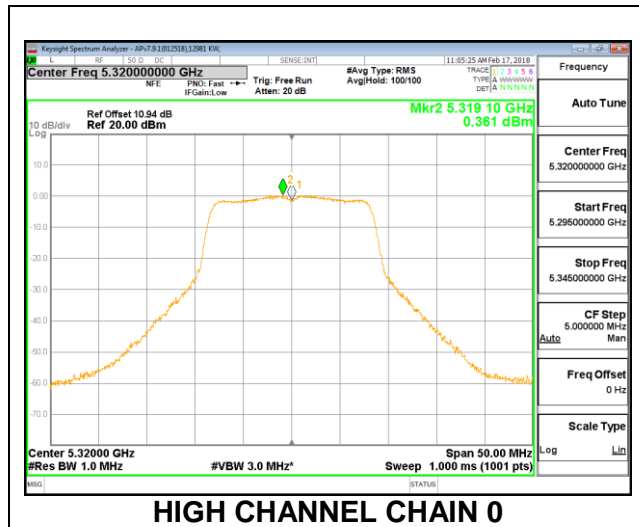
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.6. 802.11n HT20 2TX CDD MODE IN THE 5.3 GHZ BAND

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	5260	21.90	-2.92	-0.19	24.00	11.00
Mid	5300	22.00	-2.92	-0.19	24.00	11.00
High	5320	22.25	-2.92	-0.19	24.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD
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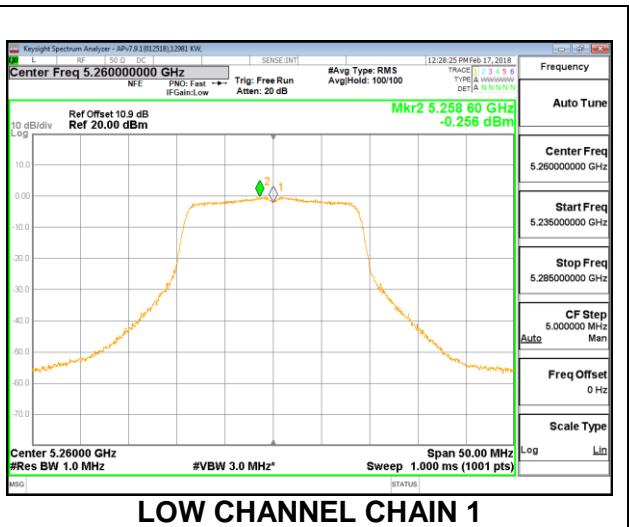
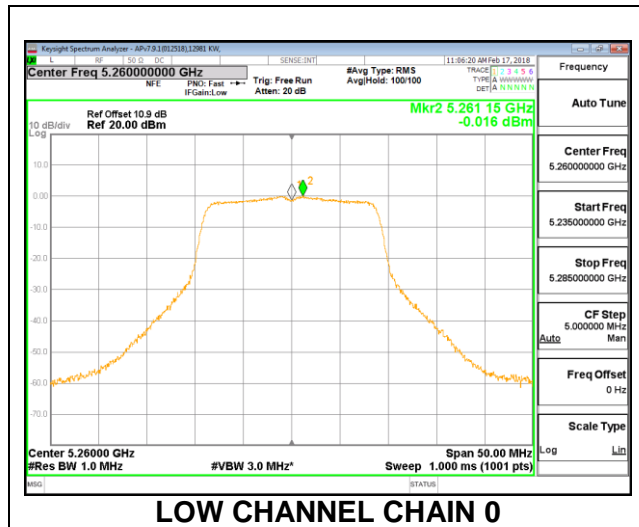
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5260	10.24	10.18	13.22	24.00	-10.78
Mid	5300	11.17	10.53	13.87	24.00	-10.13
High	5320	10.23	10.31	13.28	24.00	-10.72

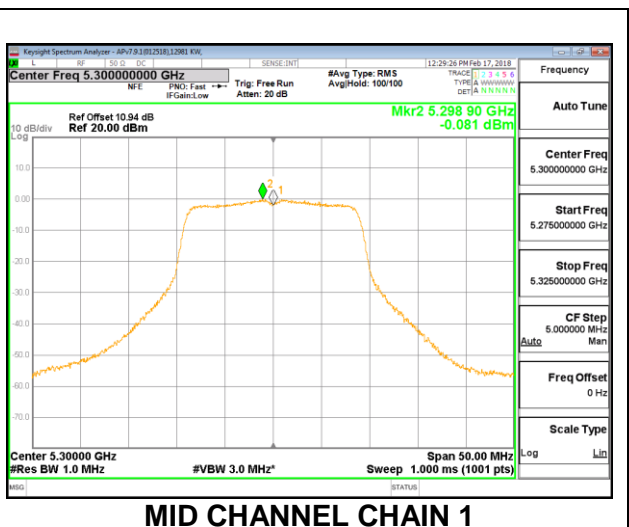
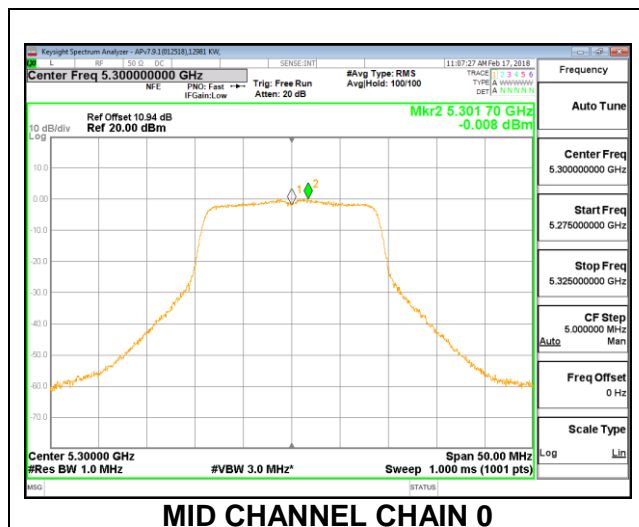
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5260	-0.02	-0.26	2.96	11.00	-8.04
Mid	5300	-0.01	-0.08	3.06	11.00	-7.94
High	5320	0.21	-0.12	3.15	11.00	-7.85

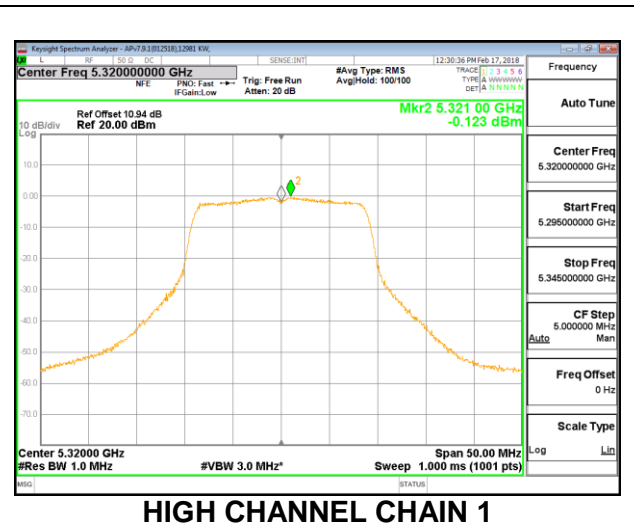
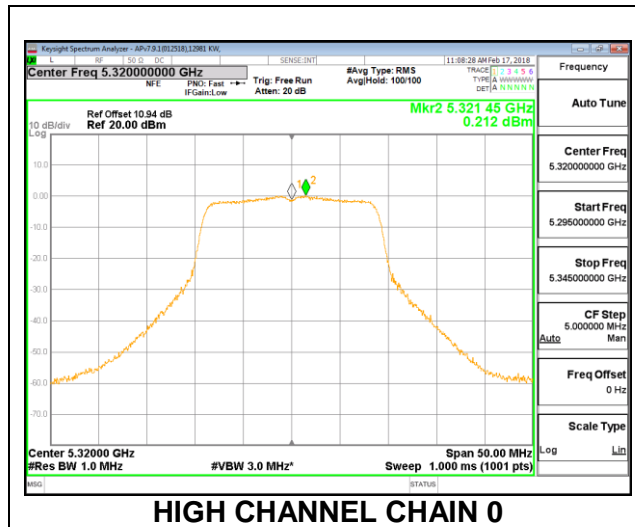
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.7. 802.11n HT40 2TX CDD MODE IN THE 5.3 GHZ BAND

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	5270	41.00	-2.92	-0.19	24.00	11.00
High	5310	40.90	-2.92	-0.19	24.00	11.00

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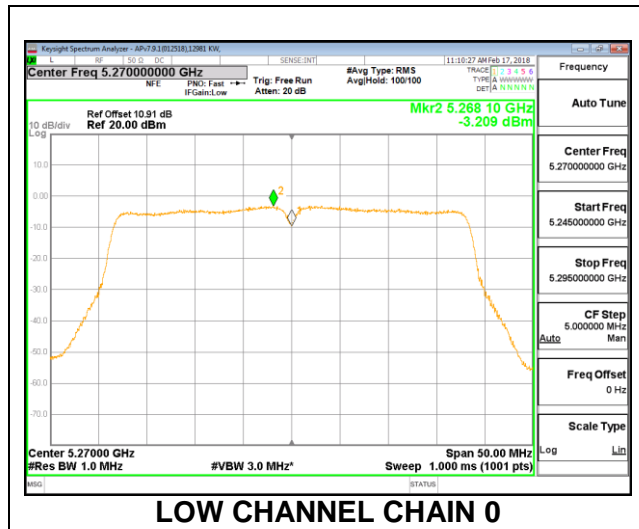
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5270	11.12	10.12	13.66	24.00	-10.34
High	5310	11.28	11.18	14.24	24.00	-9.76

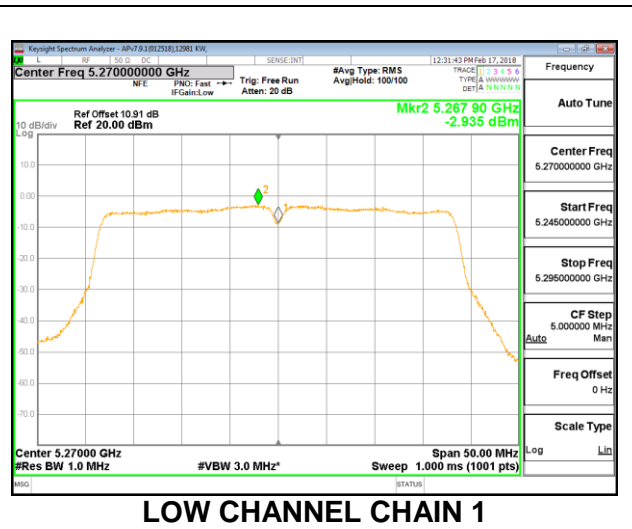
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5270	-3.21	-2.94	0.23	11.00	-10.77
High	5310	-3.37	-3.49	-0.13	11.00	-11.13

LOW CHANNEL

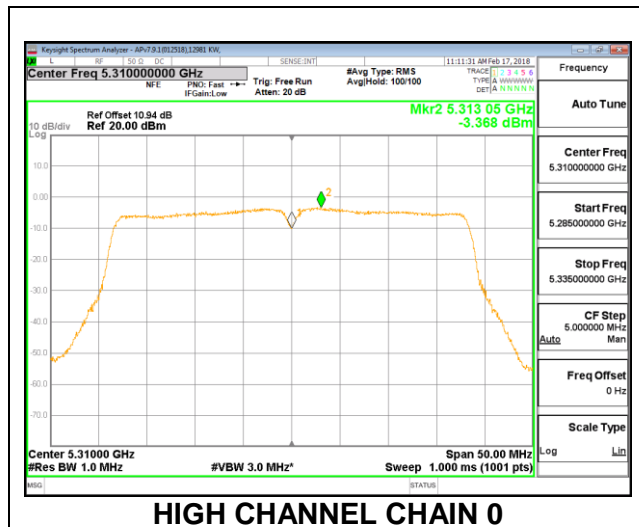


LOW CHANNEL CHAIN 0

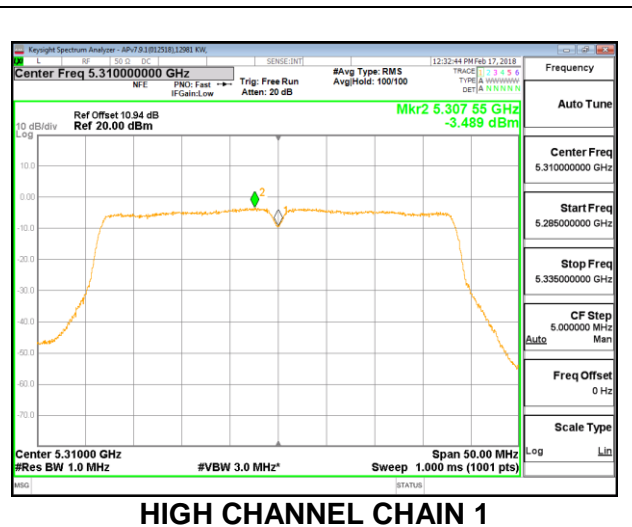


LOW CHANNEL CHAIN 1

HIGH CHANNEL



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

8.5.8. 802.11ac VHT80 2TX CDD MODE IN THE 5.3 GHZ BAND

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)
Mid	5290	83.60	-2.92	-0.19	24.00	11.00

Duty Cycle CF (dB)	0.53	Included in Calculations of Corr'd PSD
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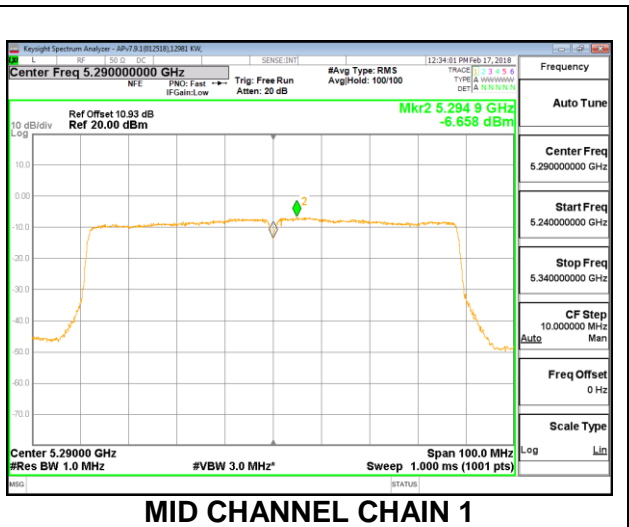
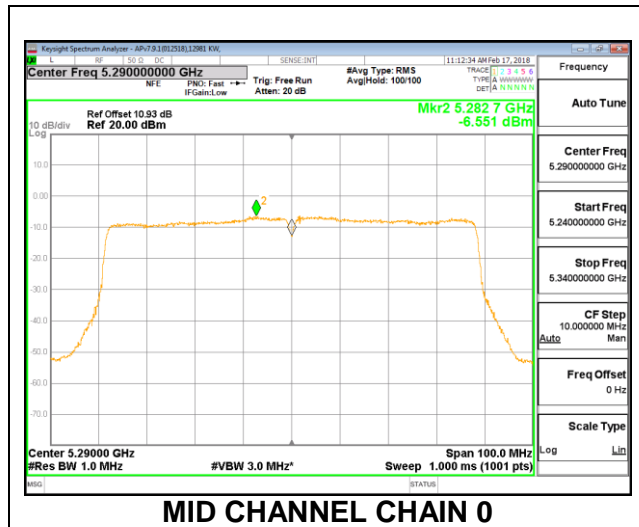
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5290	10.41	10.78	13.61	24.00	-10.39

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Mid	5290	-6.55	-6.66	-3.06	11.00	-14.06

MID CHANNEL



8.5.9. 802.11a 2TX CDD MODE IN THE 5.6 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Direction Gain for PSD (dBi)
Low	5500	21.00	16.415	-4.01	-1.12
Mid	5580	21.15	16.472	-4.01	-1.12
High	5700	21.35	16.433	-4.01	-1.12
144	5720	21.65	16.487	-4.01	-1.12

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)
Low	5500	24.00	23.15	29.15	23.15	11.00	11.00
Mid	5580	24.00	23.17	29.17	23.17	11.00	11.00
High	5700	24.00	23.16	29.16	23.16	11.00	11.00
144	5720	24.00	23.17	29.17	23.17	11.00	11.00

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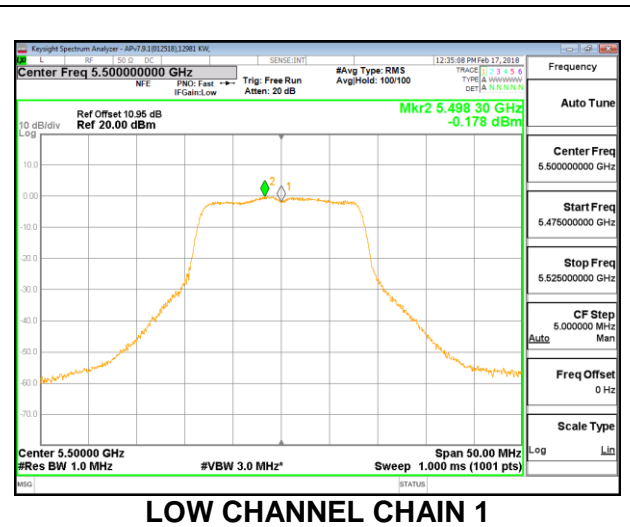
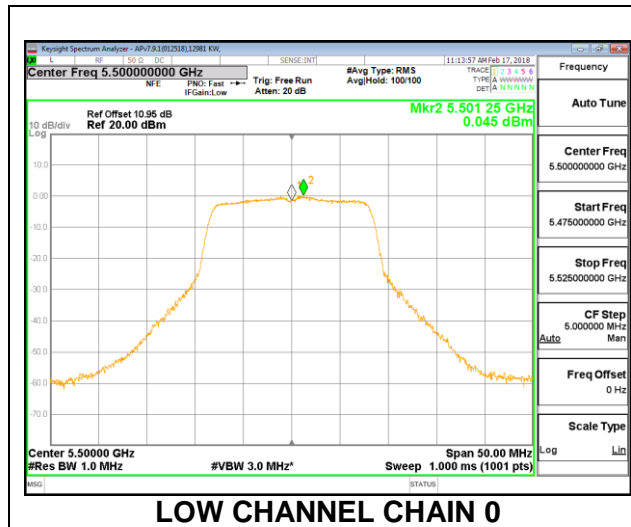
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	10.32	10.16	13.25	23.15	-9.90
Mid	5580	11.24	9.95	13.65	23.17	-9.51
High	5700	10.07	9.85	12.97	23.16	-10.19
144	5720	10.28	10.68	13.49	23.17	-9.68

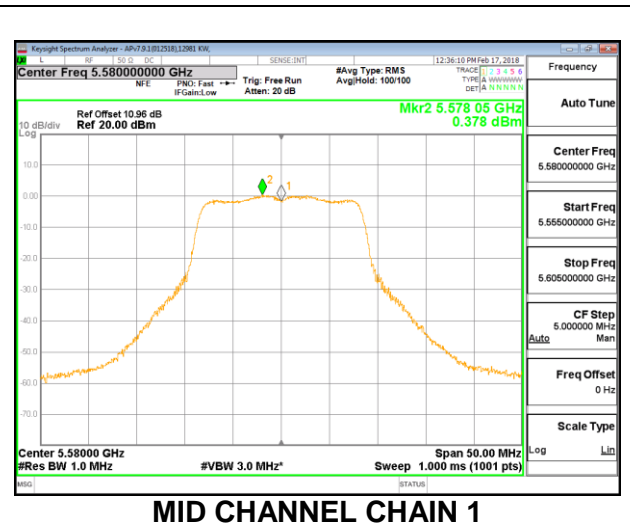
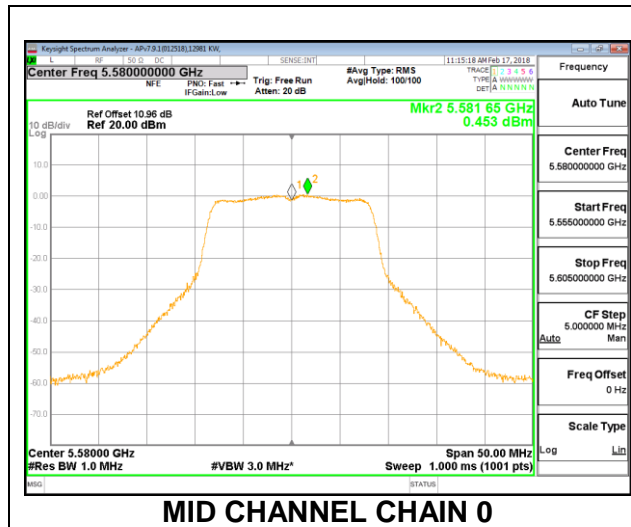
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5500	0.045	-0.178	2.945	11.00	-8.05
Mid	5580	0.453	0.378	3.426	11.00	-7.57
High	5700	0.857	0.462	3.674	11.00	-7.33
144	5720	0.477	0.424	3.461	11.00	-7.54

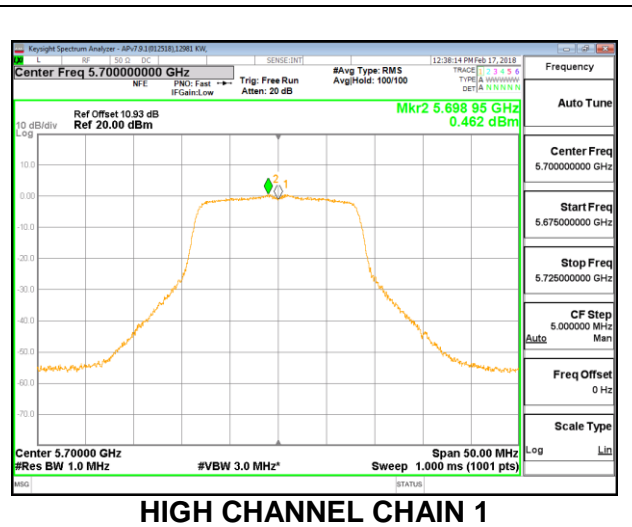
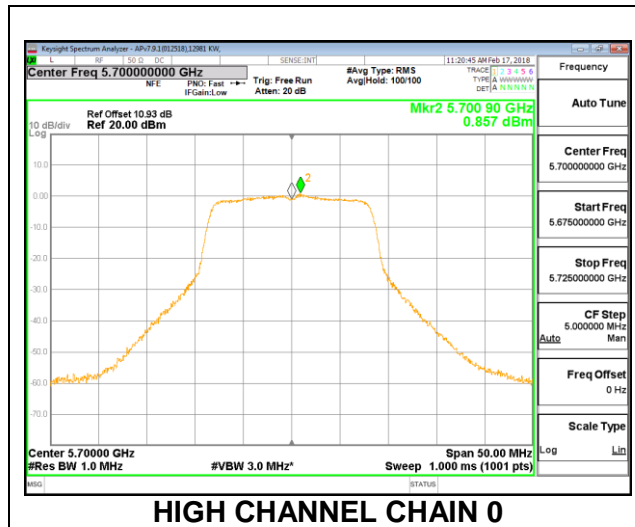
LOW CHANNEL



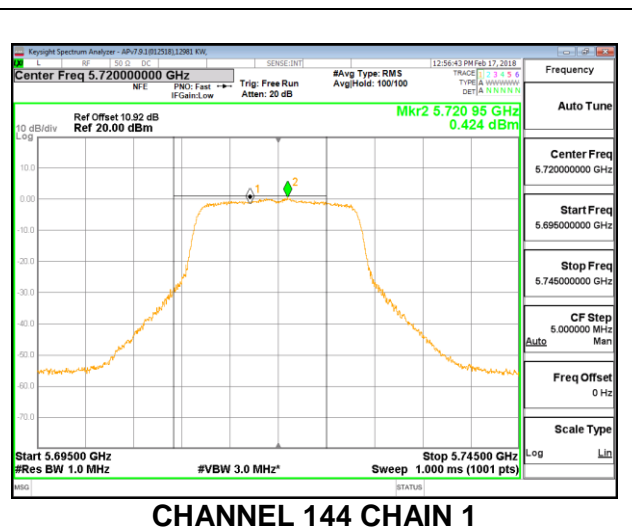
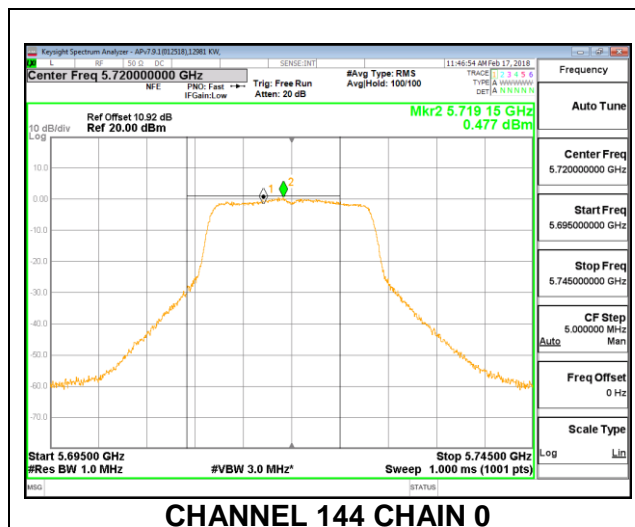
MID CHANNEL



HIGH CHANNEL



CHANNEL 144



8.5.10. 802.11n HT20 2TX CDD MODE IN THE 5.6 GHz BAND

	(MHz)	26 dB BW (MHz)	99% BW (MHz)	Gain for Power (dBi)	Gain for PSD (dBi)
Low	5500	22.20	17.753	-4.01	-1.12
Mid	5580	22.80	17.578	-4.01	-1.12
High	5700	22.70	17.654	-4.01	-1.12
144	5720	22.10	17.665	-4.01	-1.12

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	23.49	29.49	23.49	11.00	11.00	11.00
Mid	5580	24.00	23.45	29.45	23.45	11.00	11.00	11.00
High	5700	24.00	23.47	29.47	23.47	11.00	11.00	11.00
144	5720	24.00	23.47	29.47	23.47	11.00	11.00	11.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power & PSD
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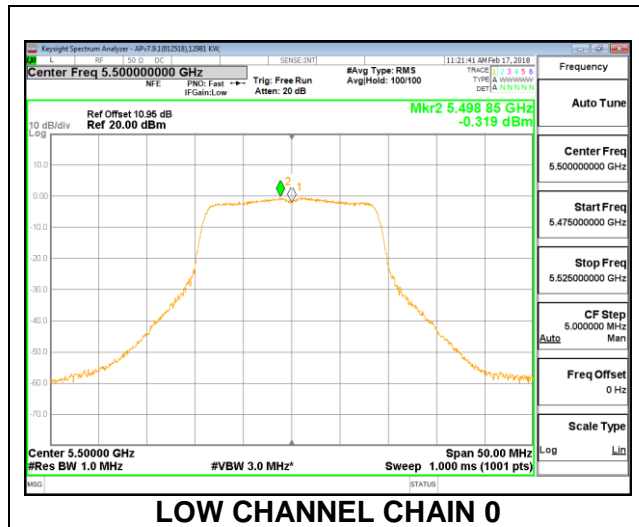
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5500	10.01	9.83	12.93	23.49	-10.56
Mid	5580	11.16	9.85	13.56	23.45	-9.89
High	5700	10.01	9.91	12.97	23.47	-10.50
144	5720	10.07	9.72	13.00	23.47	-10.47

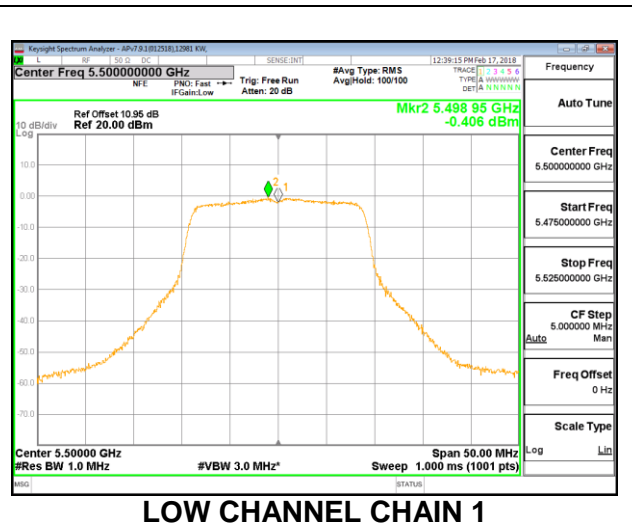
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/1MHz)	Chain 1 Meas PSD (dBm/1MHz)	Total Corr'd PSD (dBm/1MHz)	PSD Limit (dBm/1MHz)	PSD Margin (dB)
Low	5500	-0.319	-0.406	2.738	11.00	-8.26
Mid	5580	0.263	-0.070	3.200	11.00	-7.80
High	5700	0.186	0.257	3.322	11.00	-7.68
144	5720	0.506	-0.042	3.341	11.00	-7.66

LOW CHANNEL

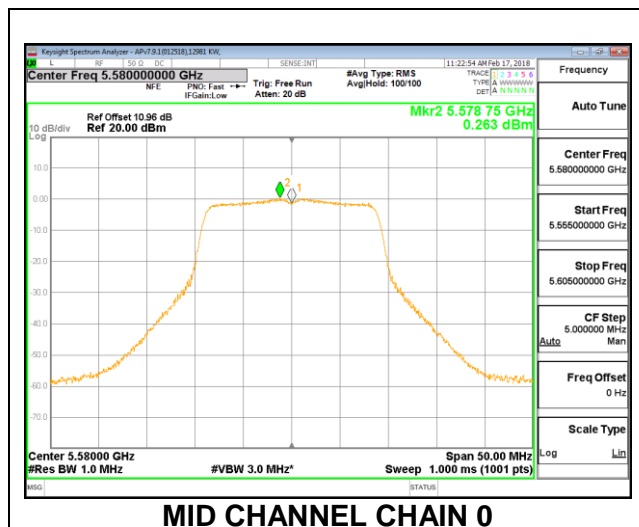


LOW CHANNEL CHAIN 0

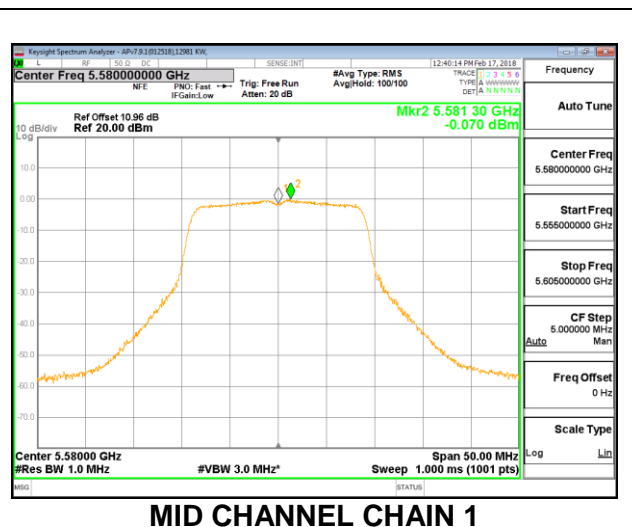


LOW CHANNEL CHAIN 1

MID CHANNEL

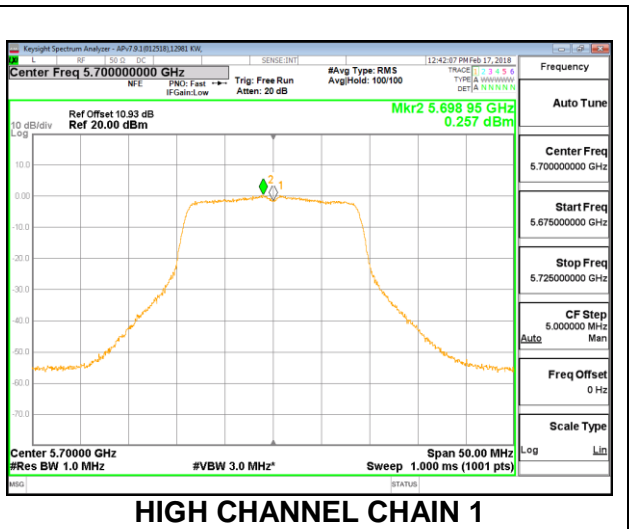
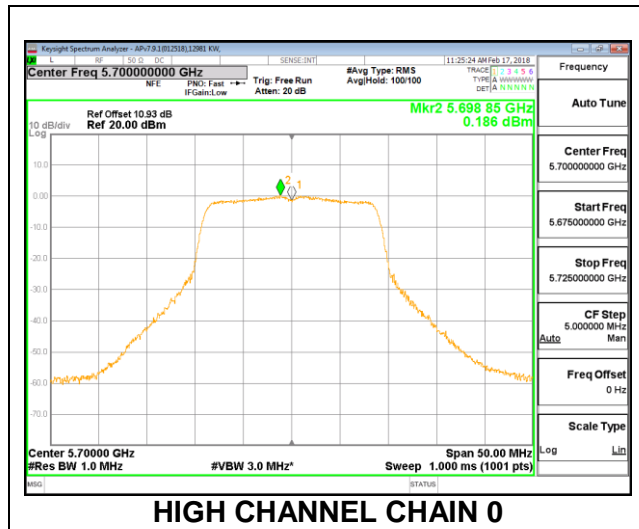


MID CHANNEL CHAIN 0

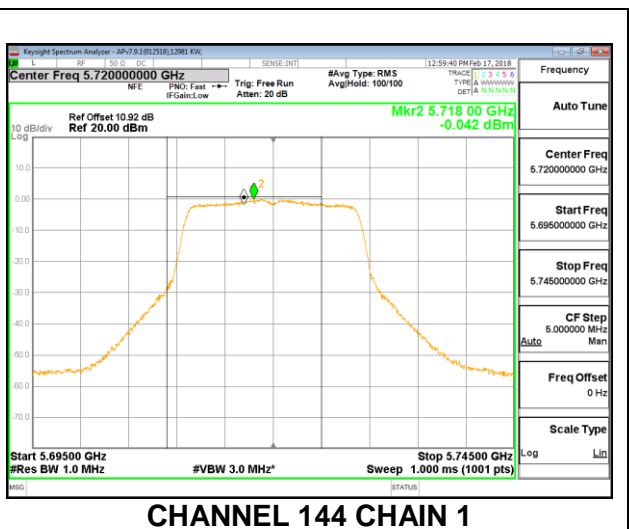
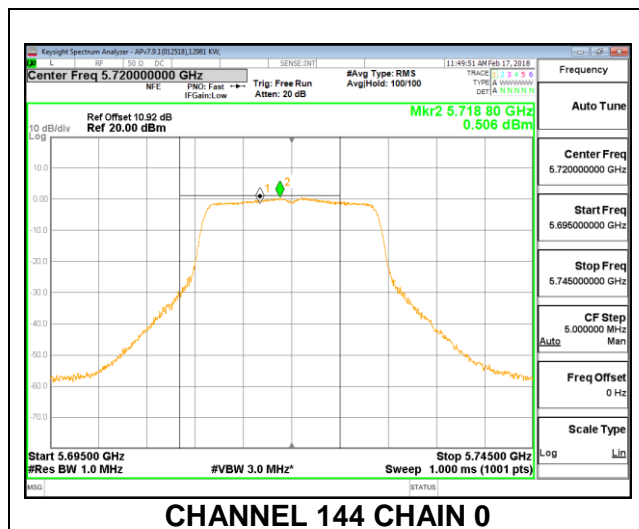


MID CHANNEL CHAIN 1

HIGH CHANNEL



CHANNEL 144



8.5.11. 802.11n HT40 2TX CDD MODE IN THE 5.6 GHz BAND

Bandwidth and Antenna Gain

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5510	40.90	36.253	-4.01	-1.12
Mid	5550	41.20	26.328	-4.01	-1.12
High	5670	41.20	36.316	-4.01	-1.12
142	5710	41.00	36.407	-4.01	-1.12

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	5510	24.00	24.00	30.00	24.00	11.00	11.00	11.00
Mid	5550	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5670	24.00	24.00	30.00	24.00	11.00	11.00	11.00
142	5710	24.00	24.00	30.00	24.00	11.00	11.00	11.00

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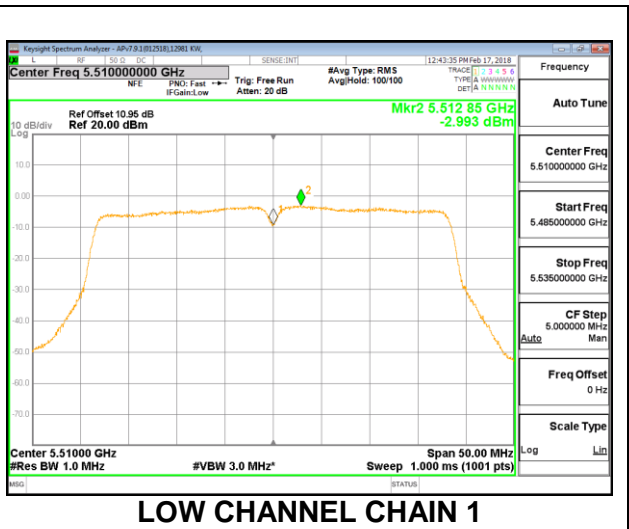
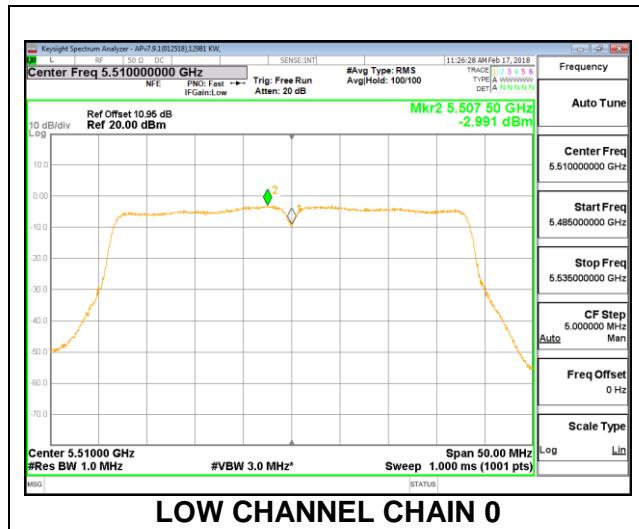
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	11.01	9.81	13.46	24.00	-10.54
Mid	5550	11.12	9.63	13.45	24.00	-10.55
High	5670	11.06	10.75	13.92	24.00	-10.08
142	5710	11.01	10.71	14.16	24.00	-9.84

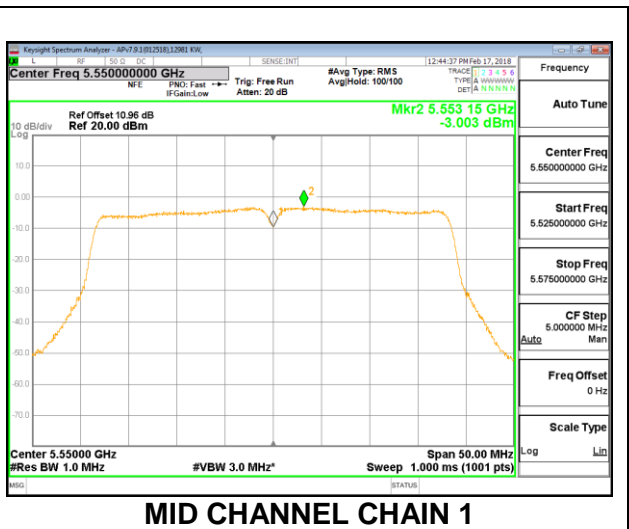
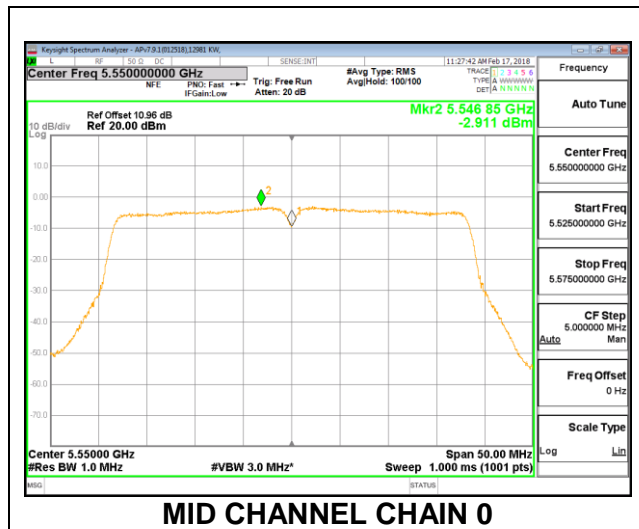
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margin (dB)
Low	5510	-2.99	-2.99	0.31	11.00	-10.69
Mid	5550	-2.91	-3.03	0.33	11.00	-10.67
High	5670	-2.67	-2.78	0.58	11.00	-10.42
142	5710	-2.46	-3.03	0.56	11.00	-10.44

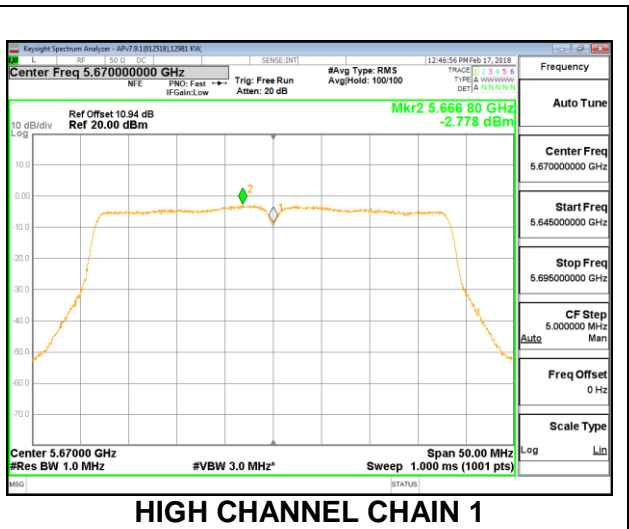
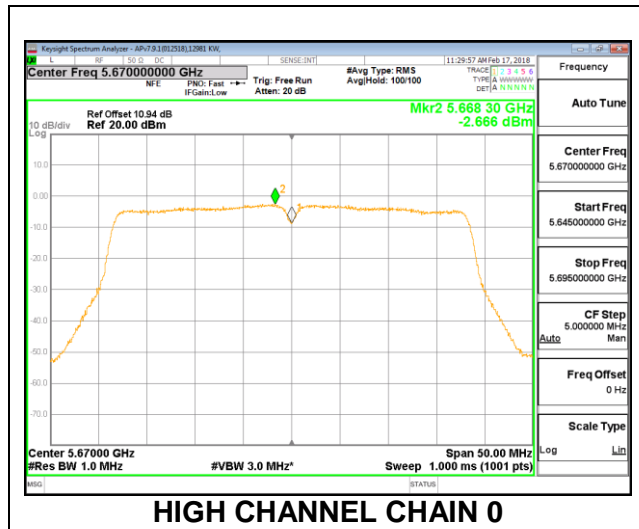
LOW CHANNEL



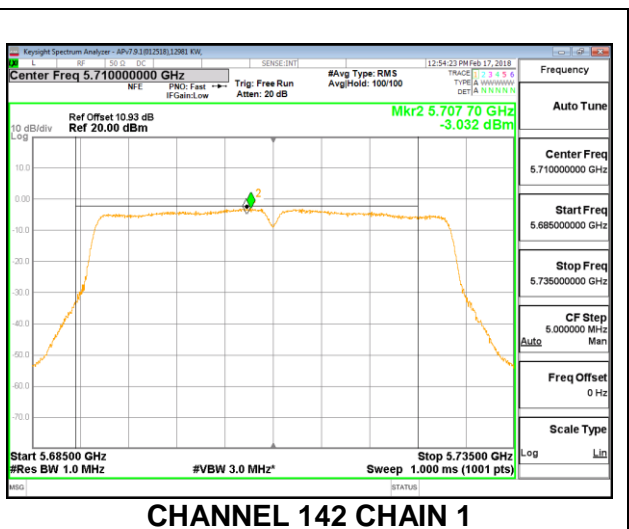
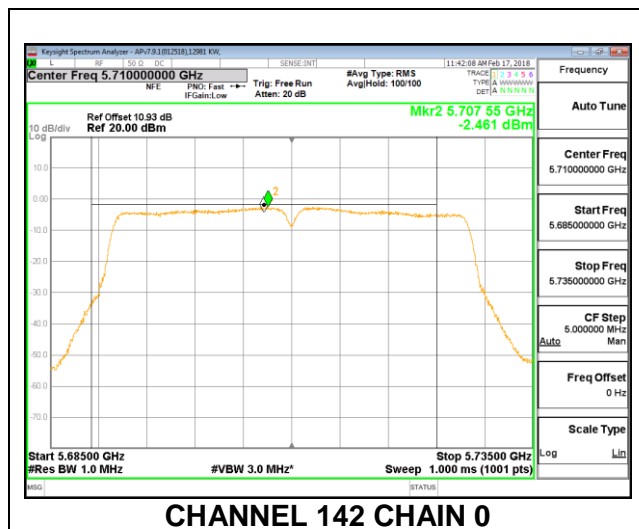
MID CHANNEL



HIGH CHANNEL



CHANNEL 142



8.5.12. 802.11ac VHT80 2TX CDD MODE IN THE 5.6 GHZ BAND

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Min 99% BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)
Low	5530	83.80	75.930	-4.01	-1.12
High	5610	83.60	75.833	-4.01	-1.12
138	5690	83.40	76.1620	-4.01	-1.12

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	5530	24.00	24.00	30.00	24.00	11.00	11.00	11.00
High	5610	24.00	24.00	30.00	24.00	11.00	11.00	11.00
138	5690	24.00	24.00	30.00	24.00	11.00	11.00	11.00

Duty Cycle CF (dB)	0.53	Included in Calculations of Corr'd Power & PSD
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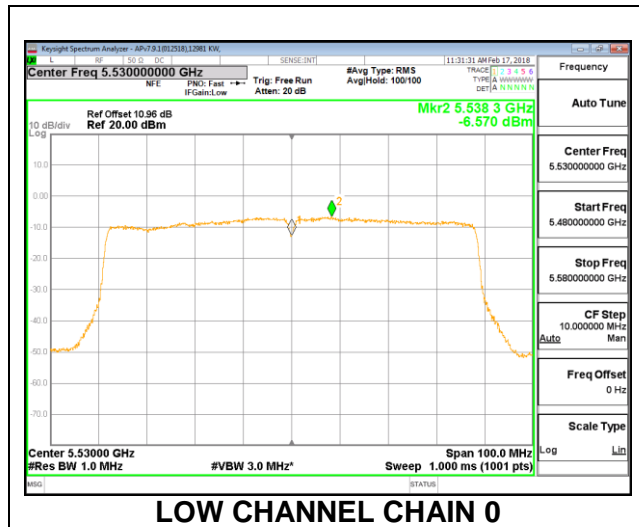
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margi (dB)
Low	5530	10.04	9.63	12.85	24.00	-11.15
High	5610	10.17	10.62	13.41	24.00	-10.59
138	5690	11.06	10.36	14.26	24.00	-9.74

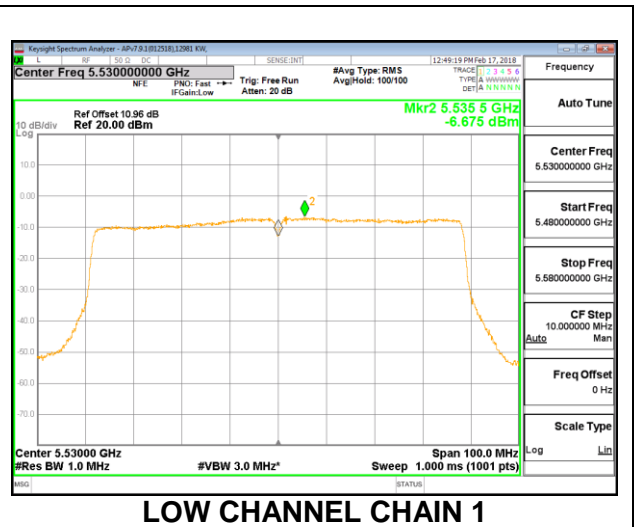
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 1MHz)	Chain 1 Meas PSD (dBm/ 1MHz)	Total Corr'd PSD (dBm/ 1MHz)	PSD Limit (dBm/ 1MHz)	PSD Margi (dB)
Low	5530	-6.570	-6.675	-3.082	11.00	-14.08
High	5610	-6.061	-6.422	-2.697	11.00	-13.70
138	5690	-5.825	-6.387	-2.557	11.00	-13.56

LOW CHANNEL

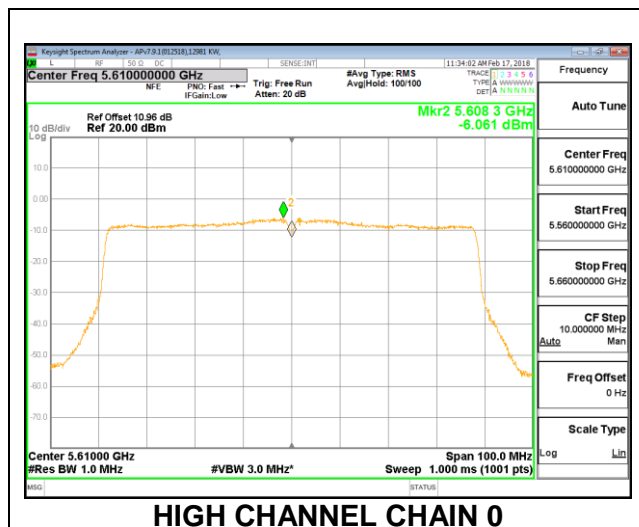


LOW CHANNEL CHAIN 0

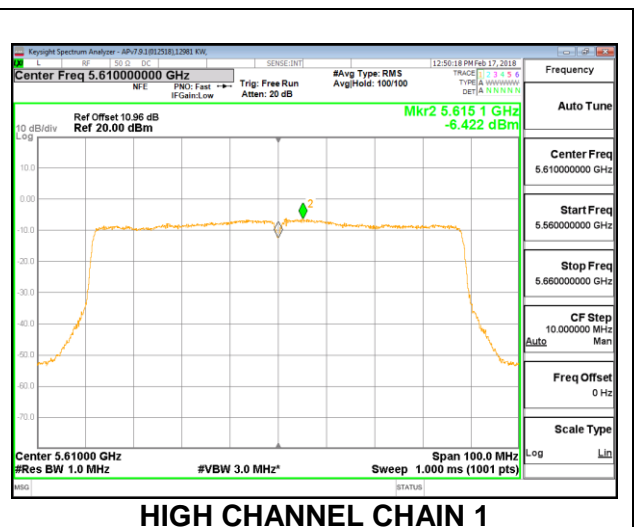


LOW CHANNEL CHAIN 1

HIGH CHANNEL

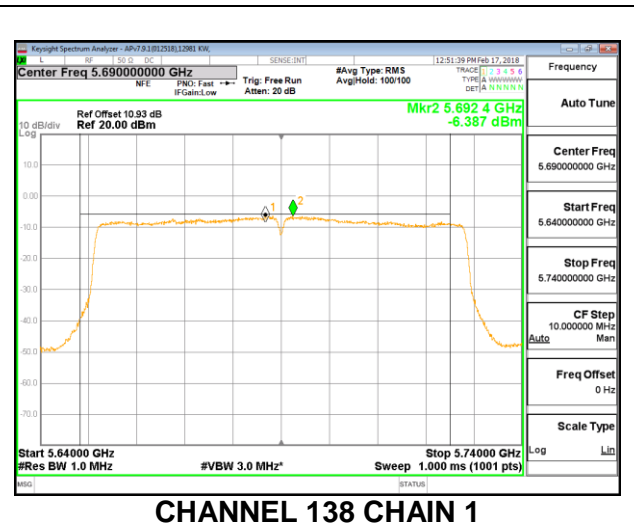
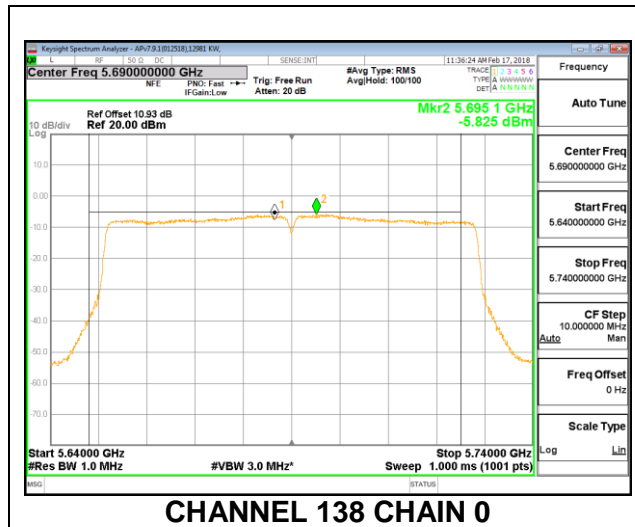


HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

CHANNEL 138



8.5.13. 802.11a 2TX CDD MODE IN THE 5.8 GHz BAND

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	-5.61	-2.74	30.00	30.00
Mid	5785	-5.61	-2.74	30.00	30.00
High	5825	-5.61	-2.74	30.00	30.00

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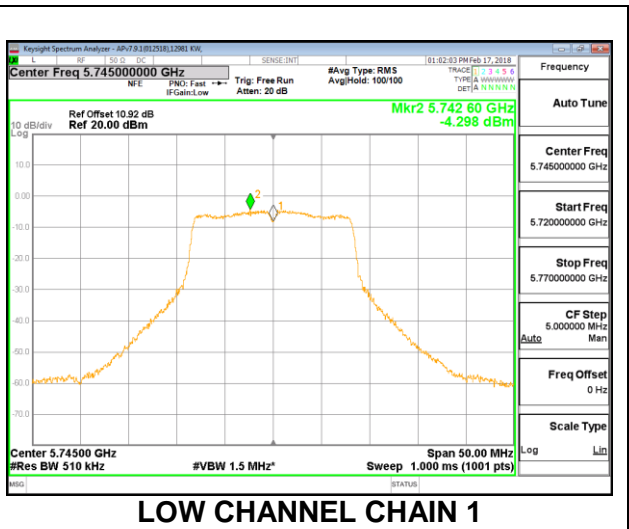
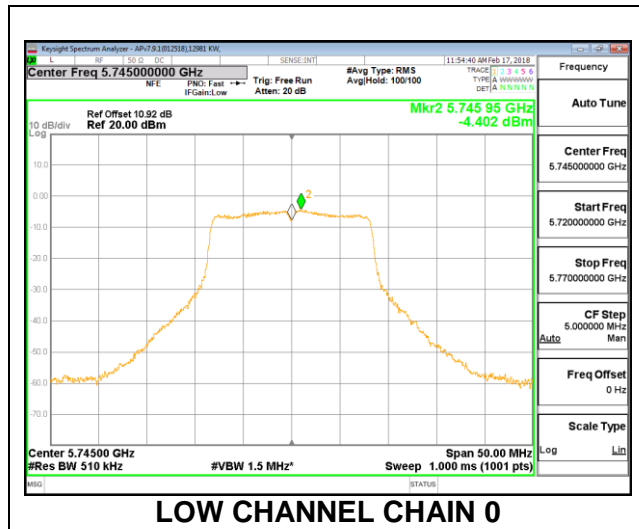
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	8.10	8.08	11.10	30.00	-18.90
Mid	5785	9.69	8.23	12.03	30.00	-17.97
High	5825	8.21	7.83	11.03	30.00	-18.97

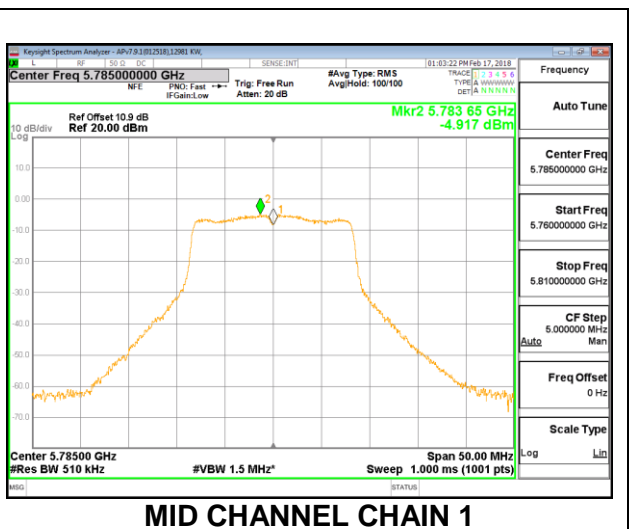
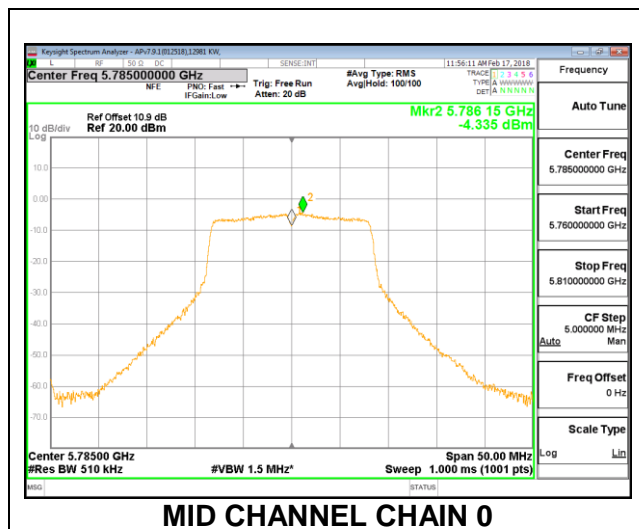
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500KHz)	Chain 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Low	5745	-4.402	-4.298	-1.339	30.00	-31.34
Mid	5785	-4.335	-4.917	-1.606	30.00	-31.61
High	5825	-4.224	-4.616	-1.405	30.00	-31.41

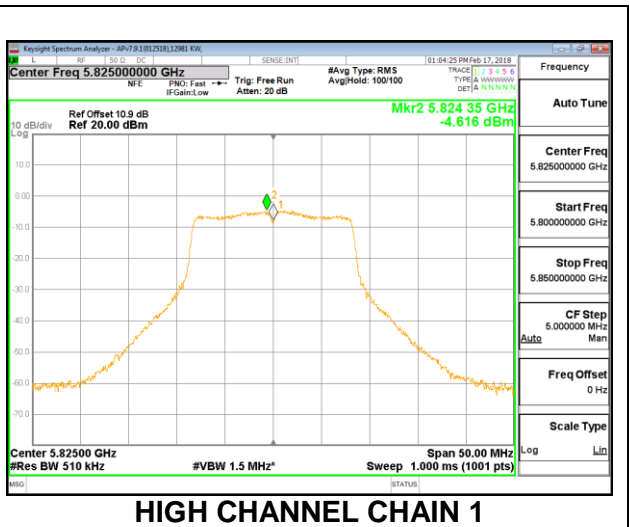
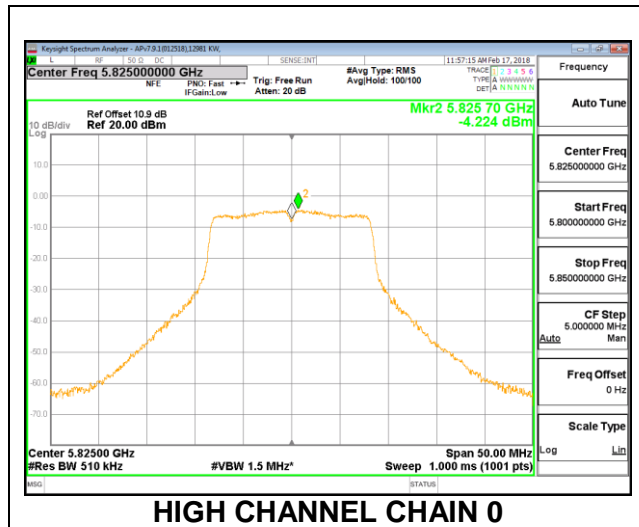
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.14. 802.11n HT20 2TX CDD MODE IN THE 5.8 GHz BAND

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	-5.61	-2.74	30.00	30.00
Mid	5785	-5.61	-2.74	30.00	30.00
High	5825	-5.61	-2.74	30.00	30.00

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power & PSD
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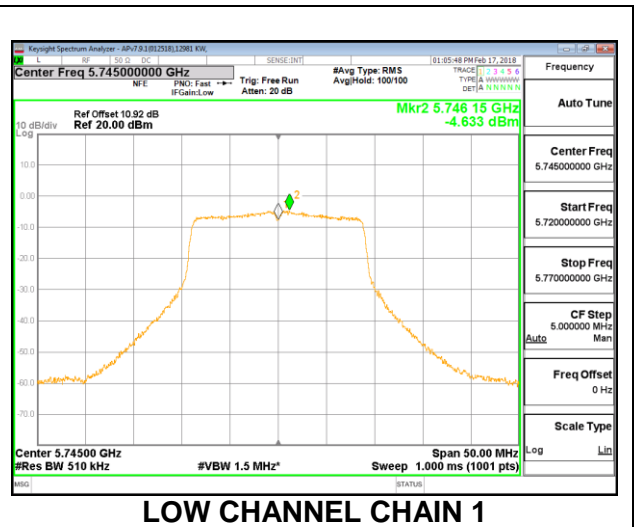
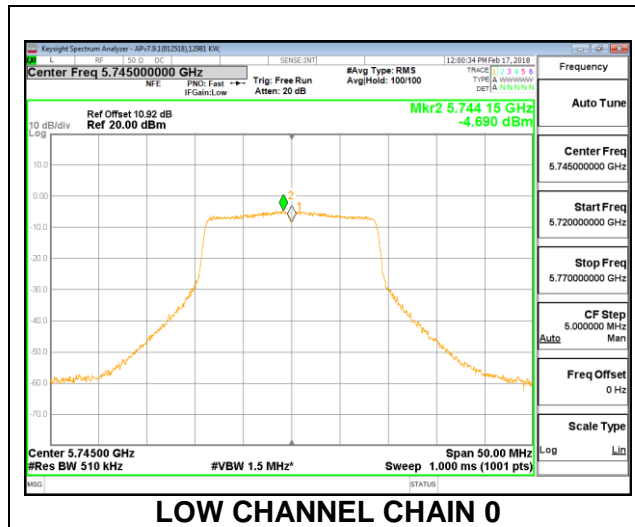
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5745	9.11	8.20	11.69	30.00	-18.31
Mid	5785	9.61	8.32	12.02	30.00	-17.98
High	5825	8.23	7.94	11.10	30.00	-18.90

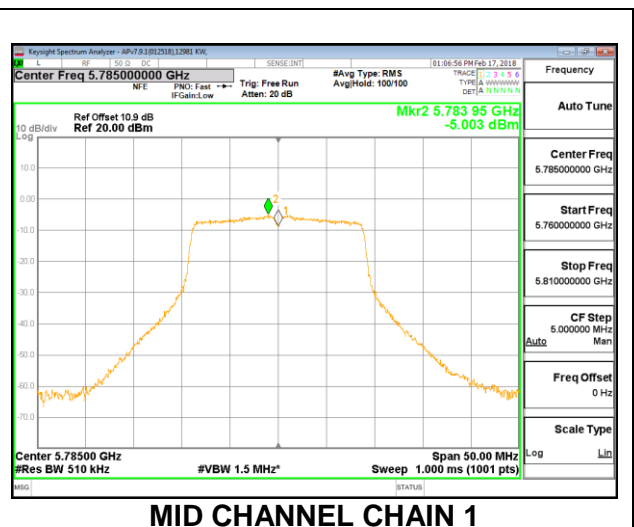
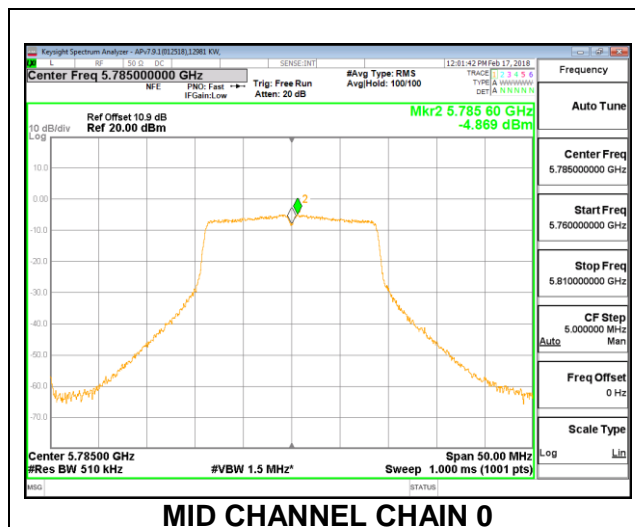
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/500KHz)	Chain 1 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5745	-4.690	-4.633	-1.561	30.00	-31.56
Mid	5785	-4.869	-5.003	-1.835	30.00	-31.84
High	5825	-4.397	-4.937	-1.558	30.00	-31.56

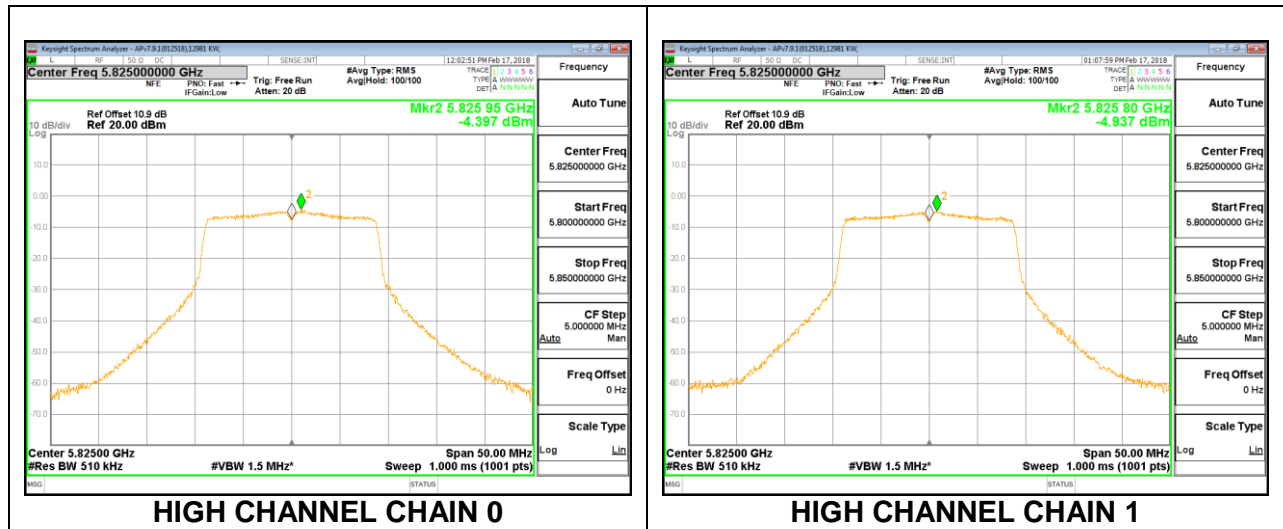
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



8.5.15. 802.11n HT40 2TX CDD MODE IN THE 5.8 GHz BAND

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	5755	-5.61	-2.74	30.00	30.00
High	5795	-5.61	-2.74	30.00	30.00

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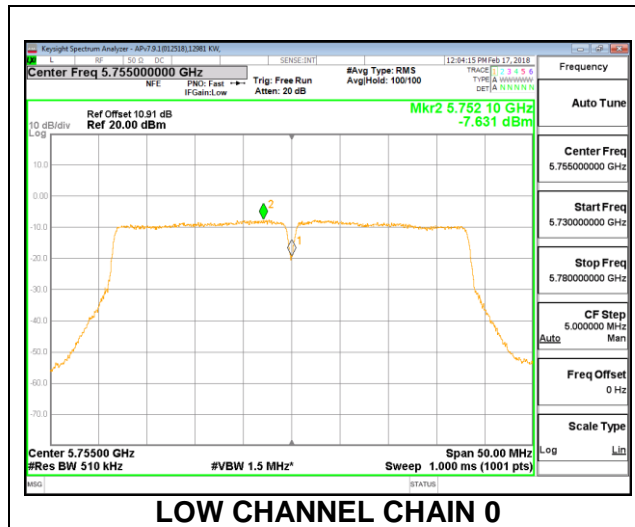
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5755	8.27	7.87	11.08	30.00	-18.92
High	5795	9.59	8.83	12.24	30.00	-17.76

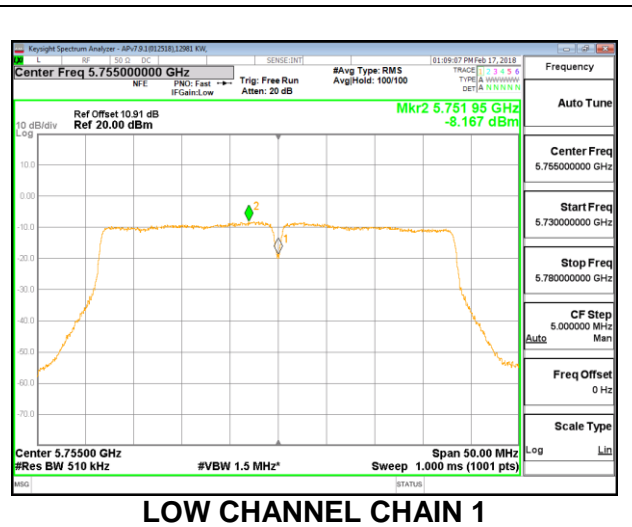
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/500KHz)	Chain 1 Meas PSD (dBm/500KHz)	Total Corr'd PSD (dBm/500KHz)	PSD Limit (dBm/500KHz)	PSD Margin (dB)
Low	5755	-7.631	-8.167	-4.590	30.00	-34.59
High	5795	-7.334	8.159	8.570	30.00	-21.43

LOW CHANNEL

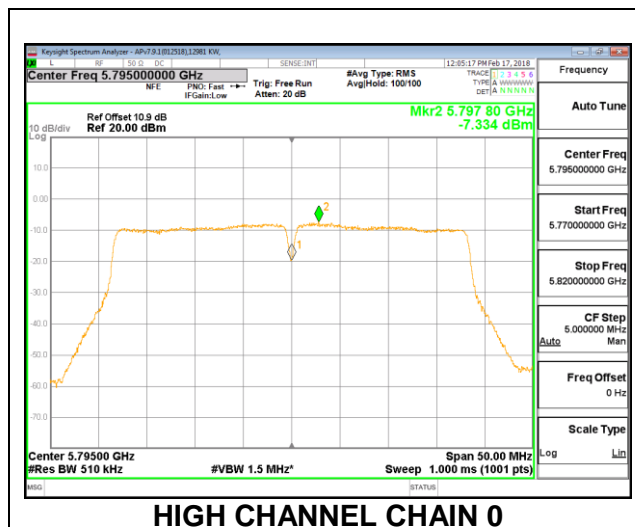


LOW CHANNEL CHAIN 0

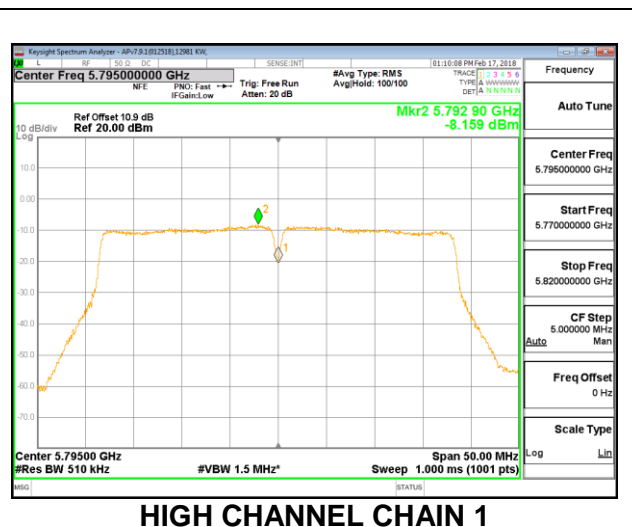


LOW CHANNEL CHAIN 1

HIGH CHANNEL



HIGH CHANNEL CHAIN 0



HIGH CHANNEL CHAIN 1

8.5.16. 802.11ac VHT80 2TX CDD MODE IN THE 5.8 GHZ BAND

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)
Mid	5755	-5.61	-2.74	30.00	30.00

Duty Cycle CF (dB)	0.53	Included in Calculations of Corr'd Power
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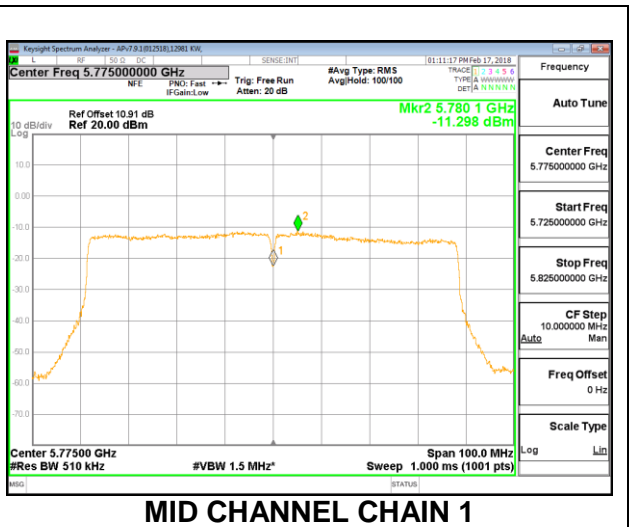
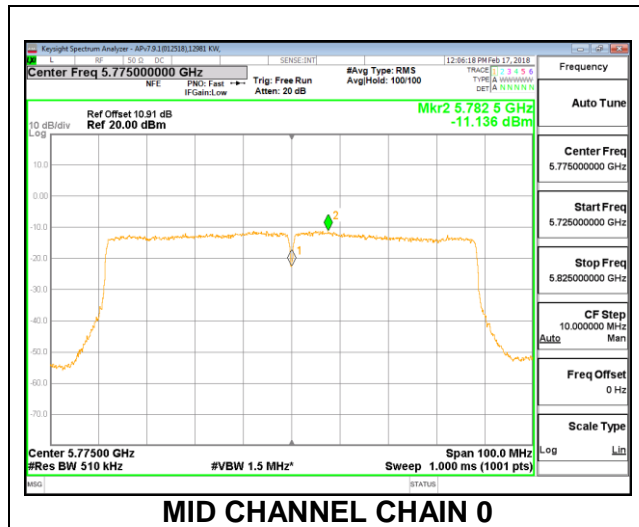
Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Mid	5755	9.21	7.86	11.60	30.00	-18.40

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm/ 500KHz)	Chain 1 Meas PSD (dBm/ 500KHz)	Total Corr'd PSD (dBm/ 500KHz)	PSD Limit (dBm/ 500KHz)	PSD Margin (dB)
Mid	5755	-11.138	-11.298	-7.677	30.00	-37.68

MID CHANNEL



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.

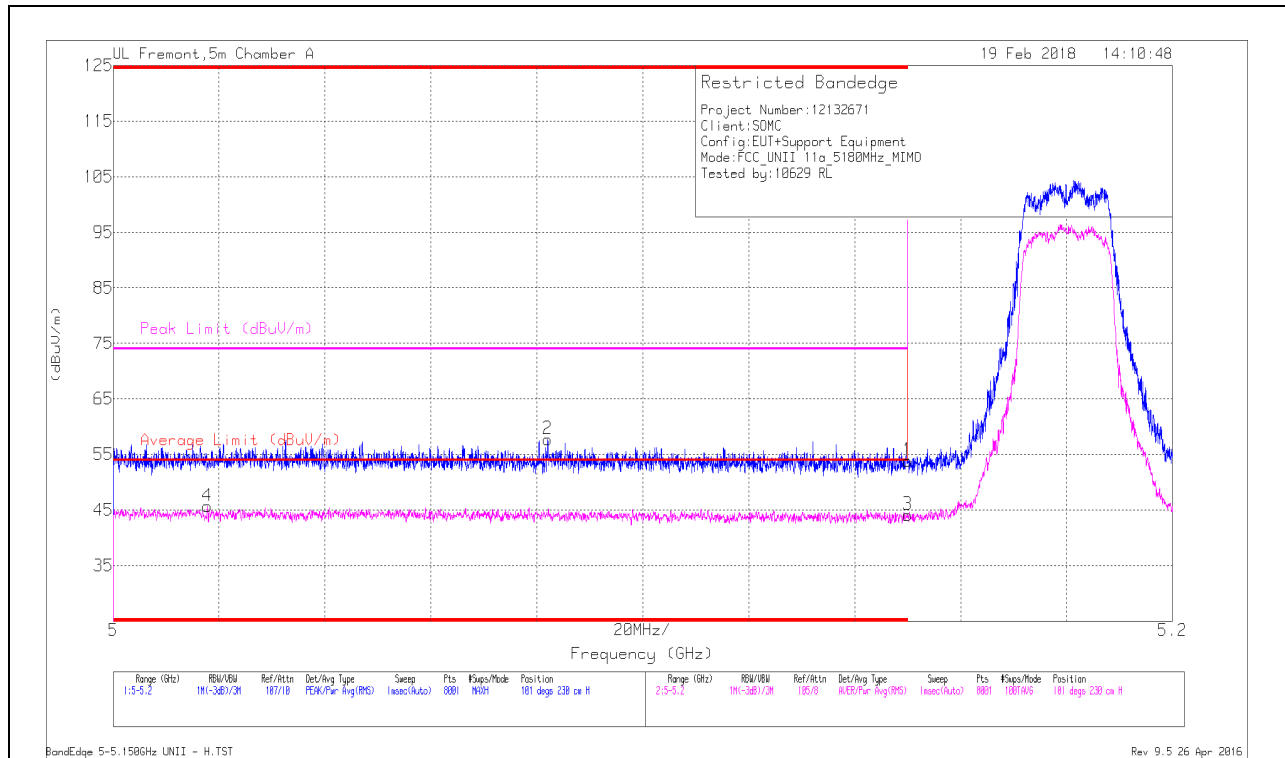
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

9.1. TRANSMITTER ABOVE 1 GHz

9.1.1. TX ABOVE 1 GHz 802.11a 2TX CDD MODE IN THE 5.2 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



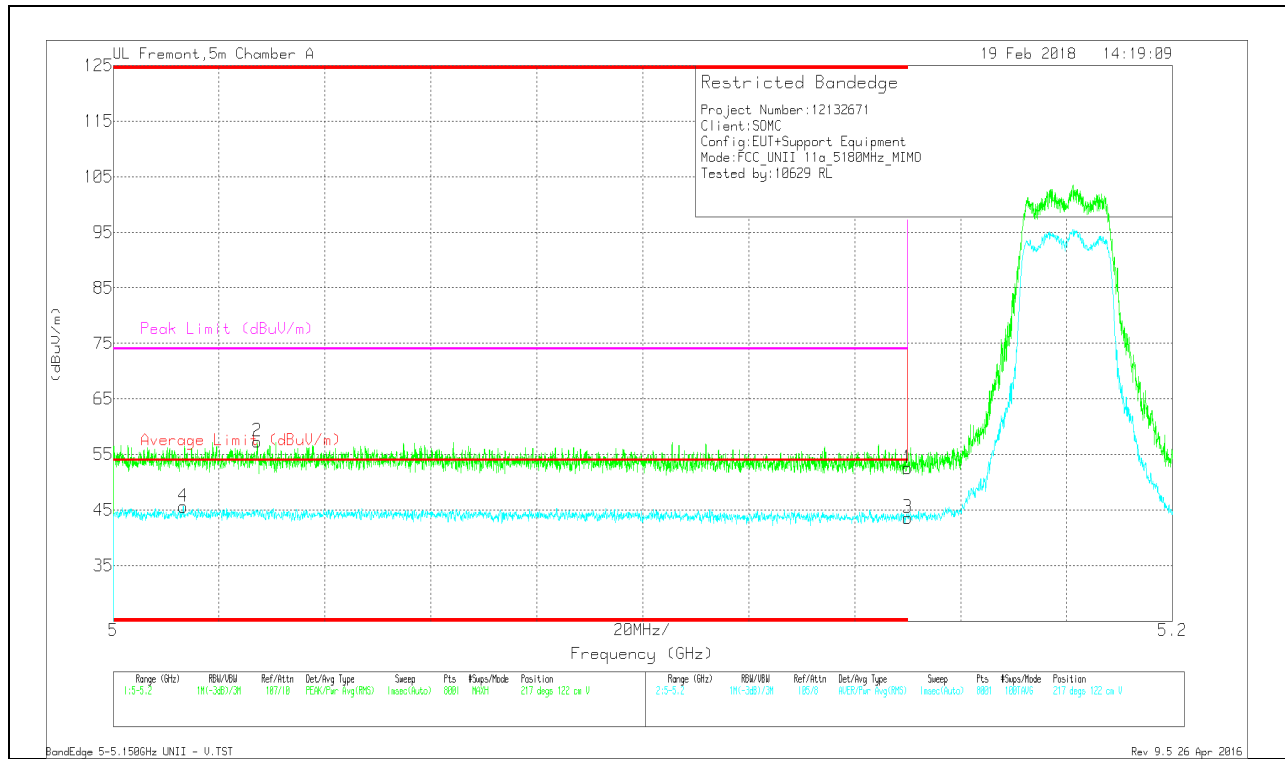
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.082	41.36	Pk	34.4	-18	57.76	-	-	74	-16.24	101	230	H
4	* 5.018	29.3	RMS	34.3	-17.9	45.7	54	-8.3	-	-	101	230	H
1	5.15	37.67	Pk	34.4	-18.2	53.87	-	-	74	-20.13	101	230	H
3	5.15	27.93	RMS	34.4	-18.2	44.13	54	-9.87	-	-	101	230	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dB/m)	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
2	* 5.027	40.85	Pk	34.3	-17.8	57.35	-	-	74	-16.65	217	122	V
4	* 5.013	29.26	RMS	34.3	-17.9	45.66	54	-8.34	-	-	217	122	V
1	5.15	36.39	Pk	34.4	-18.2	52.59	-	-	74	-21.41	217	122	V
3	5.15	27.42	RMS	34.4	-18.2	43.62	54	-10.38	-	-	217	122	V

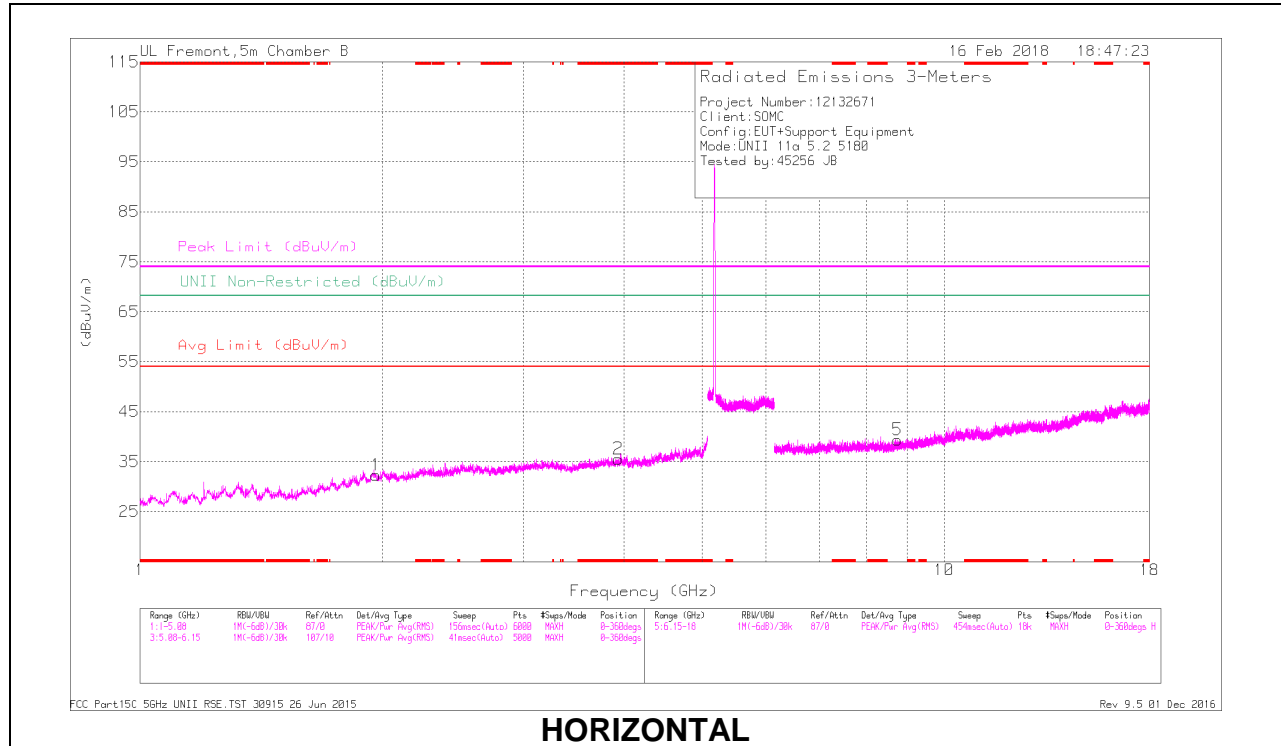
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Pk - Peak detector

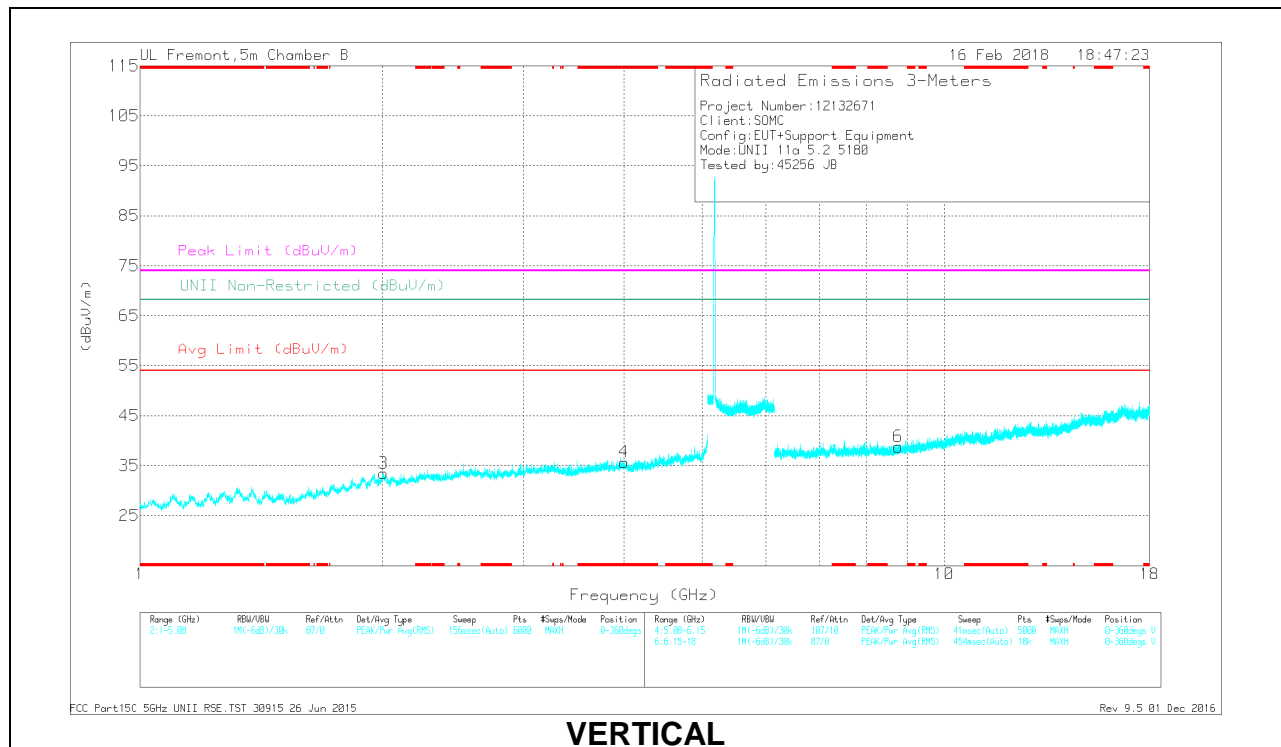
RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

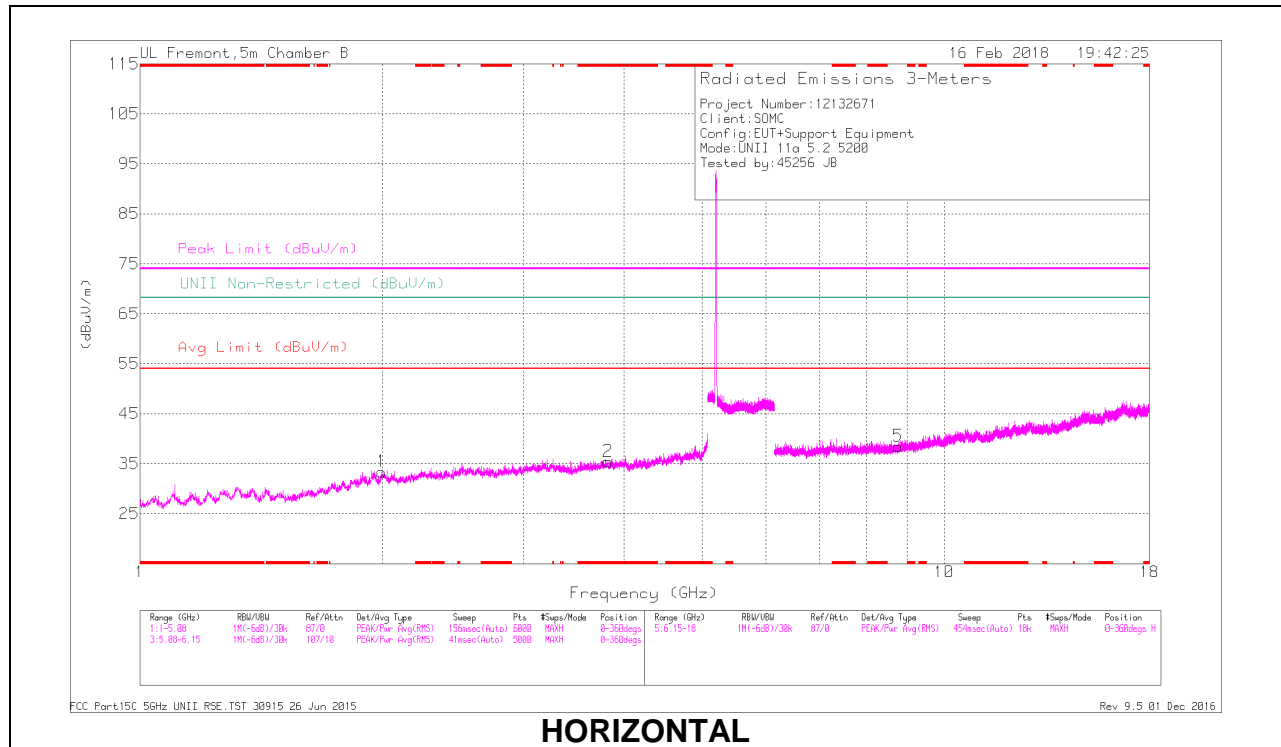
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Coil/Fiber/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.934	39.32	PK-U	33.5	-30.8	0	42.02	-	-	74	-31.98	-	-	56	277	H
* 3.932	27.89	ADR	33.5	-30.9	0	30.49	54	-23.51	-	-	-	-	56	277	H
* 3.926	38.44	PK-U	33.5	-30.4	0	41.54	-	-	74	-32.46	-	-	164	394	V
* 4	27.23	ADR	33.5	-30.3	0	30.43	54	-23.57	-	-	-	-	164	394	V
1.965	40.51	PK-U	31.2	-32.4	0	39.31	-	-	-	-	68.2	-28.89	318	193	H
2.011	41.4	PK-U	31.3	-32.6	0	40.1	-	-	-	-	68.2	-28.1	67	145	V
8.746	36.15	PK-U	36.2	-27.2	0	45.15	-	-	-	-	68.2	-23.05	197	382	H
8.763	37.1	PK-U	36.2	-27.2	0	46.1	-	-	-	-	68.2	-22.1	214	324	V

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

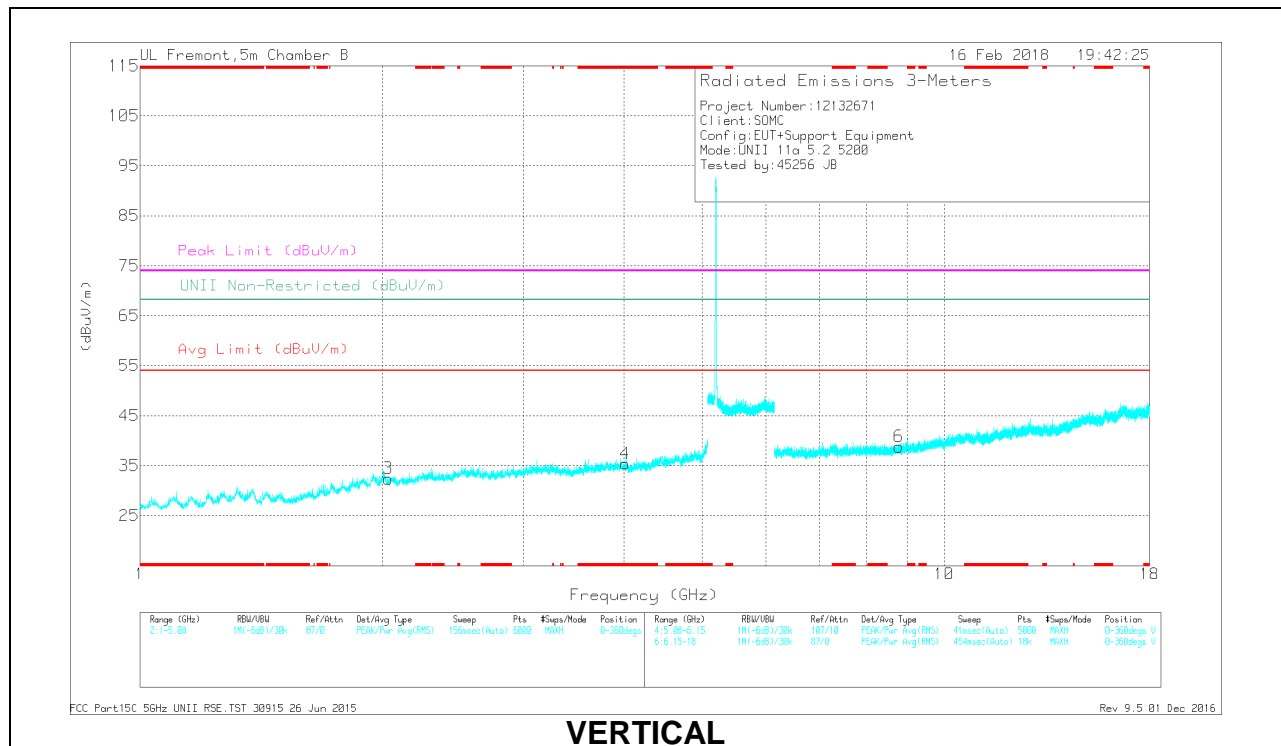
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

MID CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

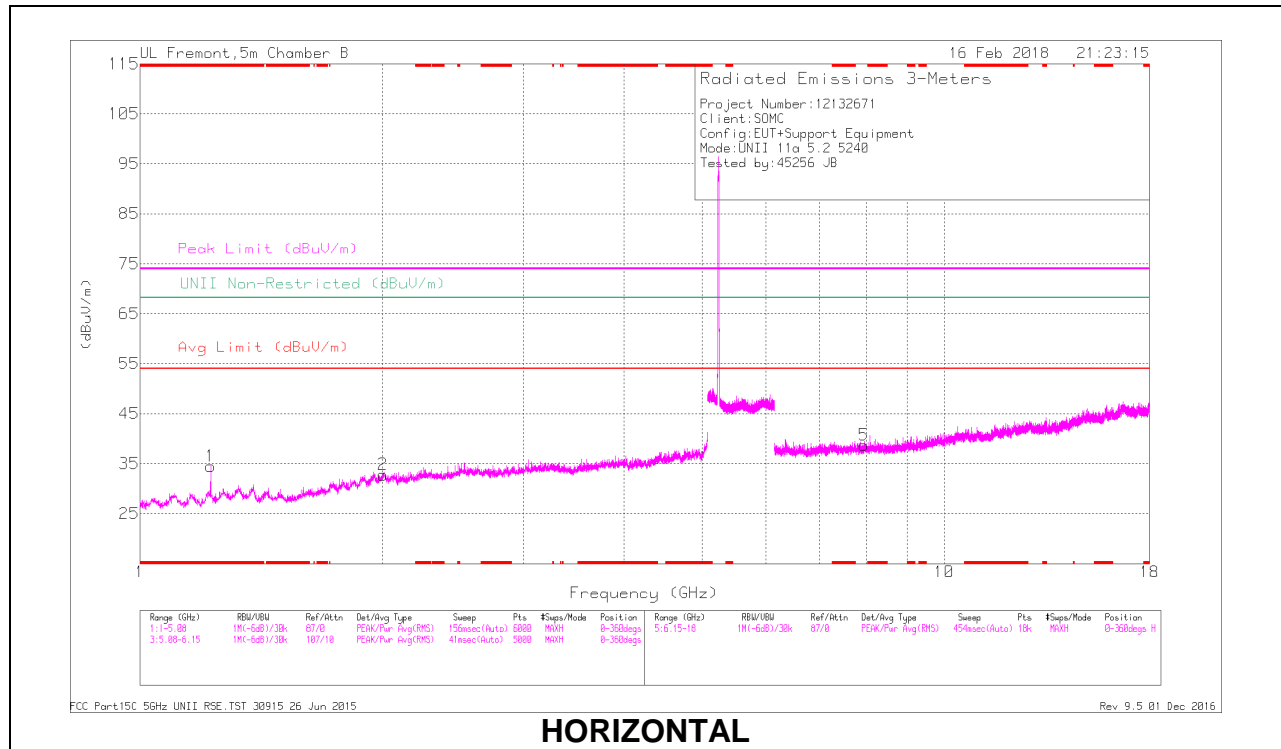
Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Coil/Fiber/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 3.819	39.95	PK-U	33.5	-31.6	0	41.85	-	-	74	-32.15	-	-	151	130	H
* 3.821	28.73	ADR	33.5	-31.6	0	30.63	54	-23.37	-	-	-	-	151	130	H
* 4.013	39.36	PK-U	33.5	-30.6	0	42.26	-	-	74	-31.74	-	-	239	361	V
* 4.013	27.58	ADR	33.5	-30.6	0	30.48	54	-23.52	-	-	-	-	239	361	V
1.998	40.73	PK-U	31.3	-32.5	0	39.53	-	-	-	-	68.2	-28.67	135	205	H
2.038	40.76	PK-U	31.4	-33	0	39.16	-	-	-	-	68.2	-29.04	247	371	V
8.766	36.04	PK-U	36.2	-27.3	0	44.94	-	-	-	-	68.2	-23.26	296	283	H
8.782	36.27	PK-U	36.1	-27.3	0	45.07	-	-	-	-	68.2	-23.13	132	166	V

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

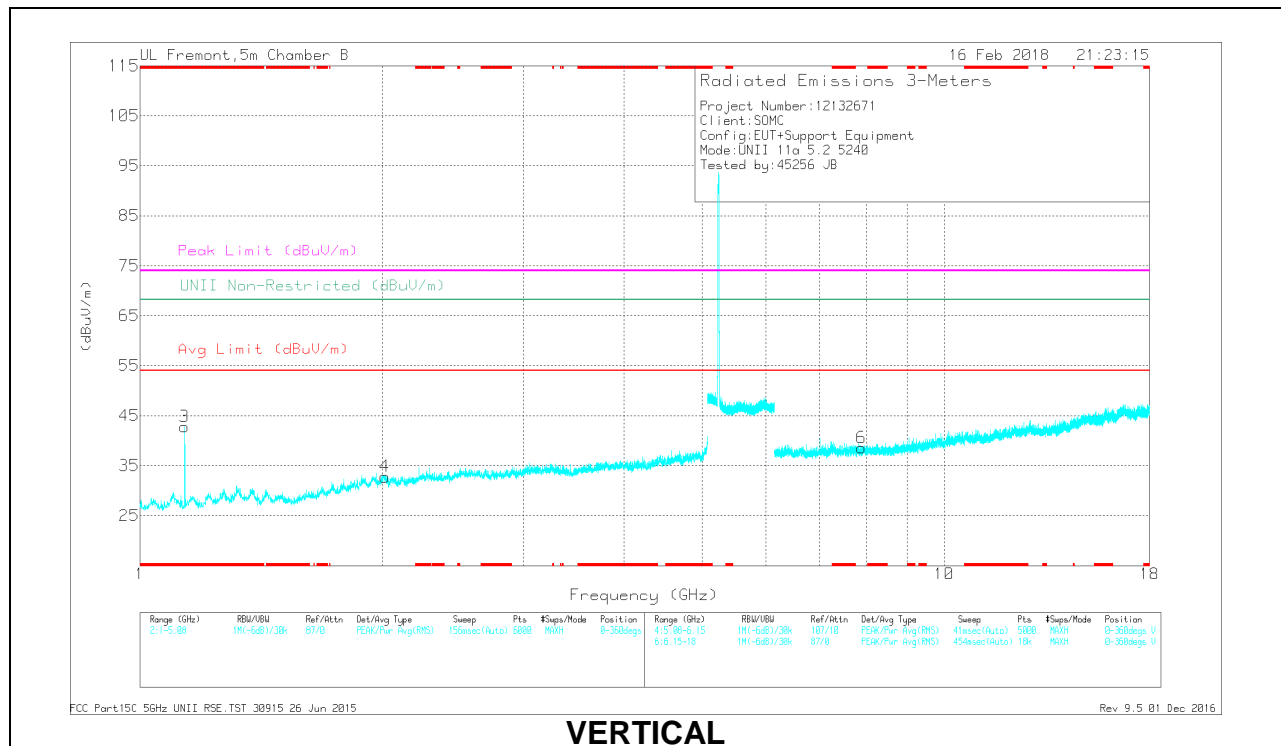
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

HIGH CHANNEL RESULTS



HORIZONTAL



VERTICAL

RADIATED EMISSIONS

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T863 (dBm)	Amp/Coil/Fiber/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
* 1.222	42.21	PK-U	28.3	-34.6	0	35.91	-	-	74	-38.09	-	-	203	378	H
* 1.223	30.26	ADR	28.4	-34.7	0	23.96	54	-30.04	-	-	-	-	203	378	H
* 1.138	41.08	PK-U	27.5	-34.4	0	34.19	-	-	74	-39.82	-	-	73	261	V
* 1.136	29.15	ADR	27.5	-34.4	0	22.25	54	-31.75	-	-	-	-	73	261	V
2.006	40.98	PK-U	31.3	-32.4	0	39.88	-	-	-	-	68.2	-28.32	136	157	H
2.016	41.34	PK-U	31.3	-32.7	0	39.94	-	-	-	-	68.2	-28.26	83	125	V
7.889	37.29	PK-U	36	-28.1	0	45.19	-	-	-	-	68.2	-23.01	93	256	V
7.949	37.34	PK-U	36	-28.2	0	45.14	-	-	-	-	68.2	-23.06	261	329	H

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

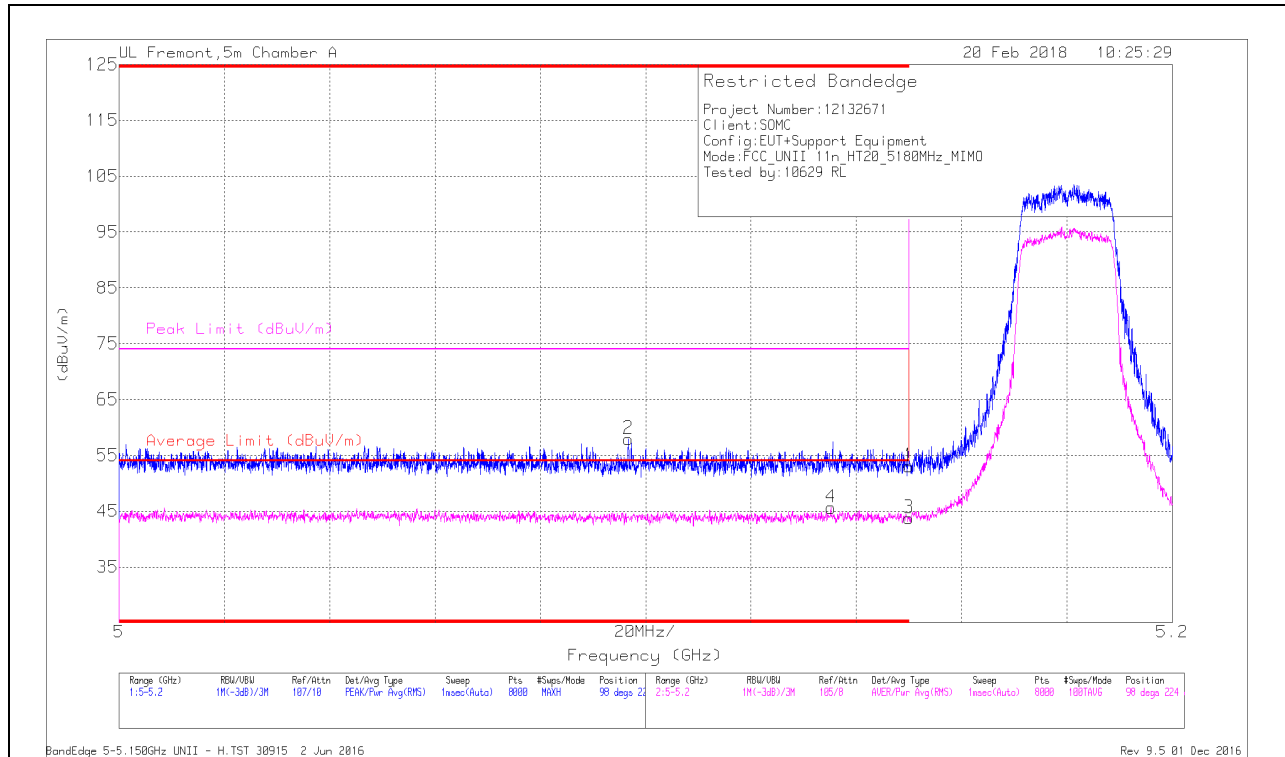
PK-U - U-NII: Maximum Peak

ADR - U-NII AD primary method, RMS average

9.1.2. TX ABOVE 1 GHz 802.11n HT20 2TX CDD MODE IN THE 5.2 GHz BAND

BANDEDGE (LOW CHANNEL)

HORIZONTAL RESULT



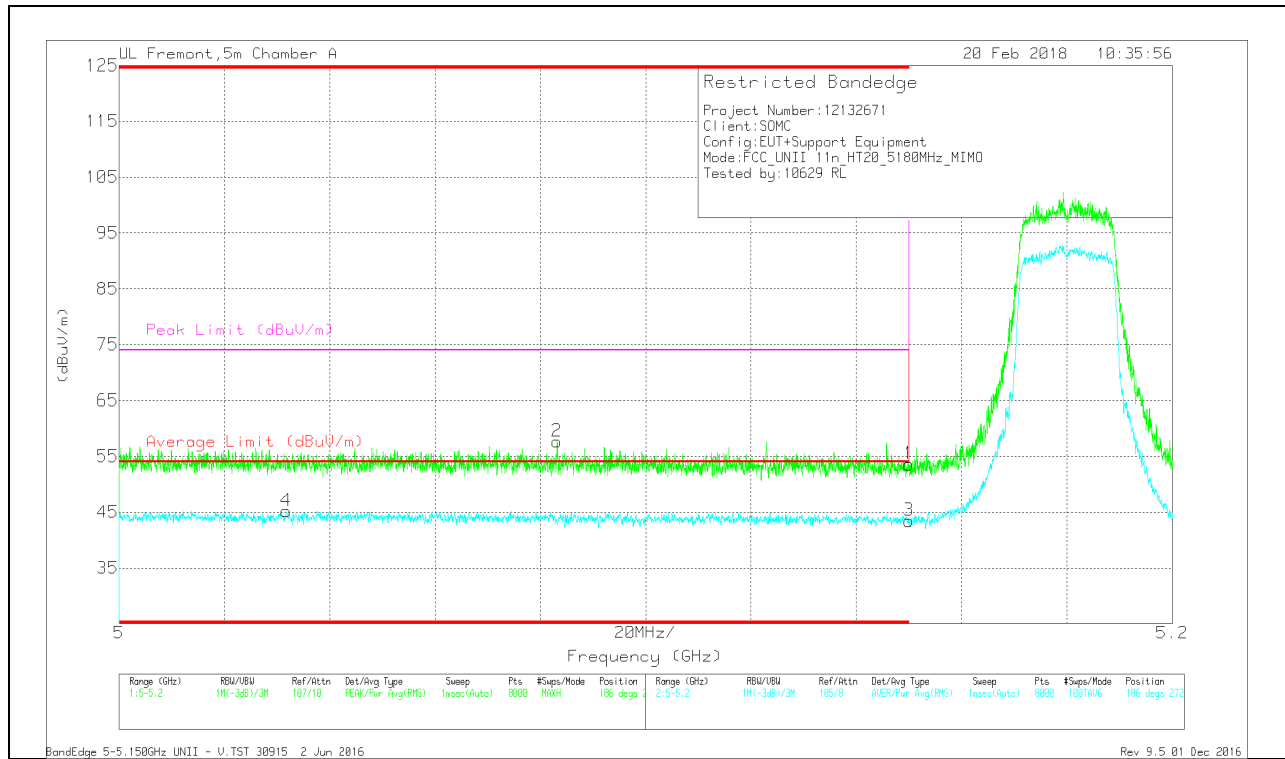
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T862 (dBm)	Amp/Cbl/Fitr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	37.05	Pk	34.4	-18.4	0	53.05	-	-	74	-20.95	98	224	H
2	* 5.097	41.74	Pk	34.4	-18.2	0	57.94	-	-	74	-16.06	98	224	H
3	* 5.15	27.77	RMS	34.4	-18.4	.09	43.86	54	-10.14	-	-	98	224	H
4	* 5.135	29.53	RMS	34.4	-18.3	.09	45.72	54	-8.28	-	-	98	224	H

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

Pk - Peak detector

RMS - RMS detection

VERTICAL RESULT

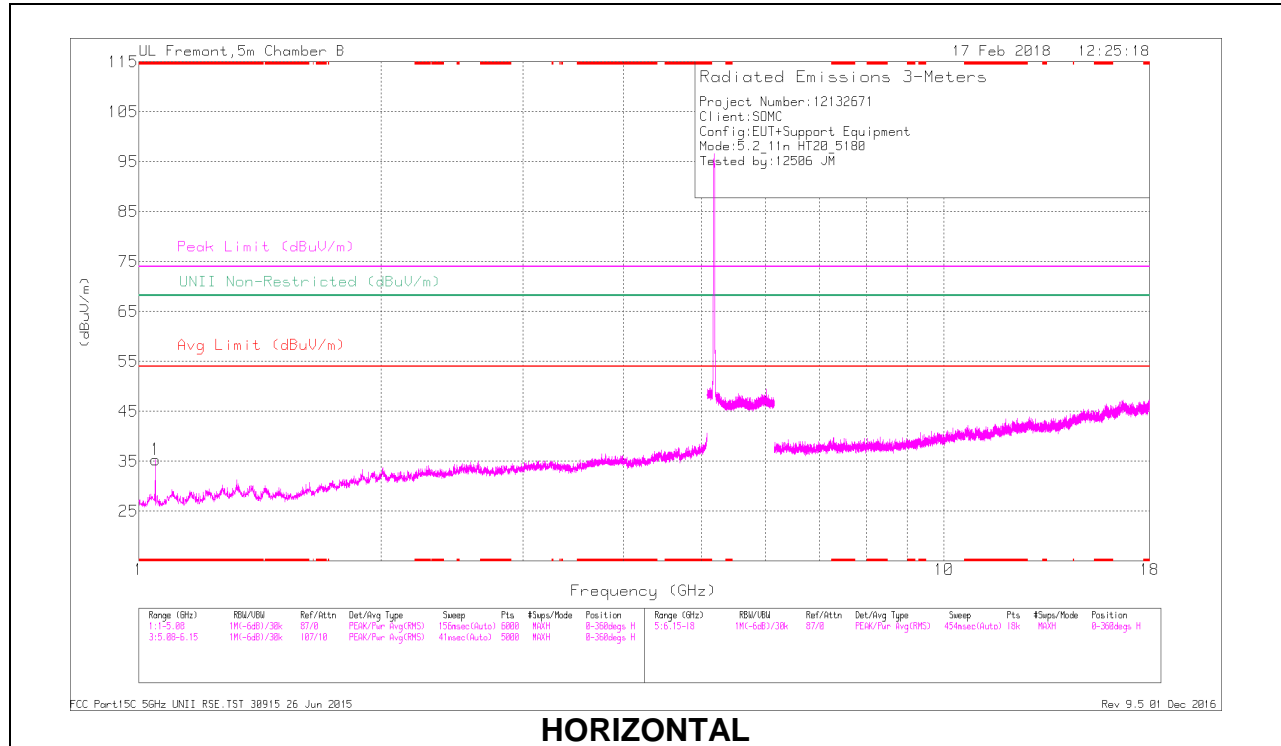


Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF Y862 (dB/m)	Amp/Cb/Filt/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.032	28.99	RMS	34.3	-18.2	.09	45.18	54	-8.82	-	-	186	272	V
2	* 5.083	41.44	Pk	34.4	-18.2	0	57.64	-	-	74	-16.36	186	272	V
1	* 5.15	37.57	Pk	34.4	-18.4	0	53.57	-	-	74	-20.43	186	272	V
3	* 5.15	27.36	RMS	34.4	-18.4	.09	43.45	54	-10.55	-	-	186	272	V

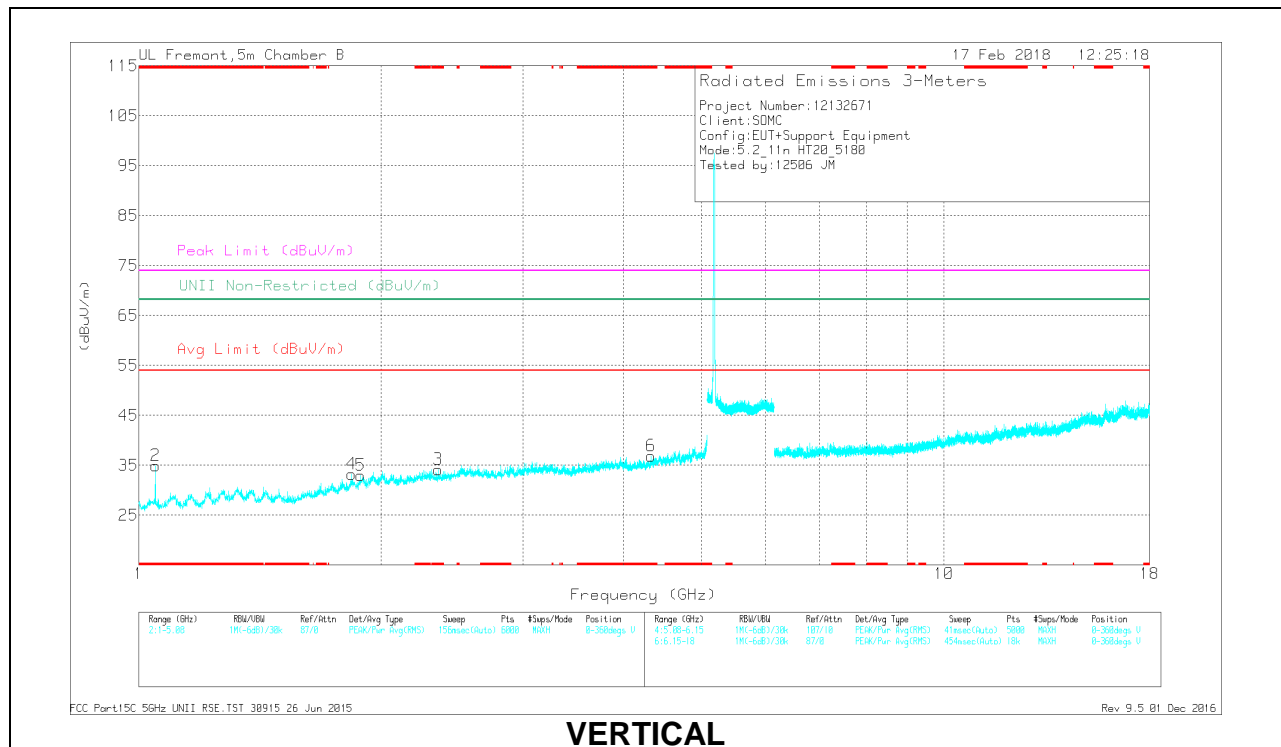
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
 Pk - Peak detector
 RMS - RMS detection

HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL RESULTS



HORIZONTAL



VERTICAL