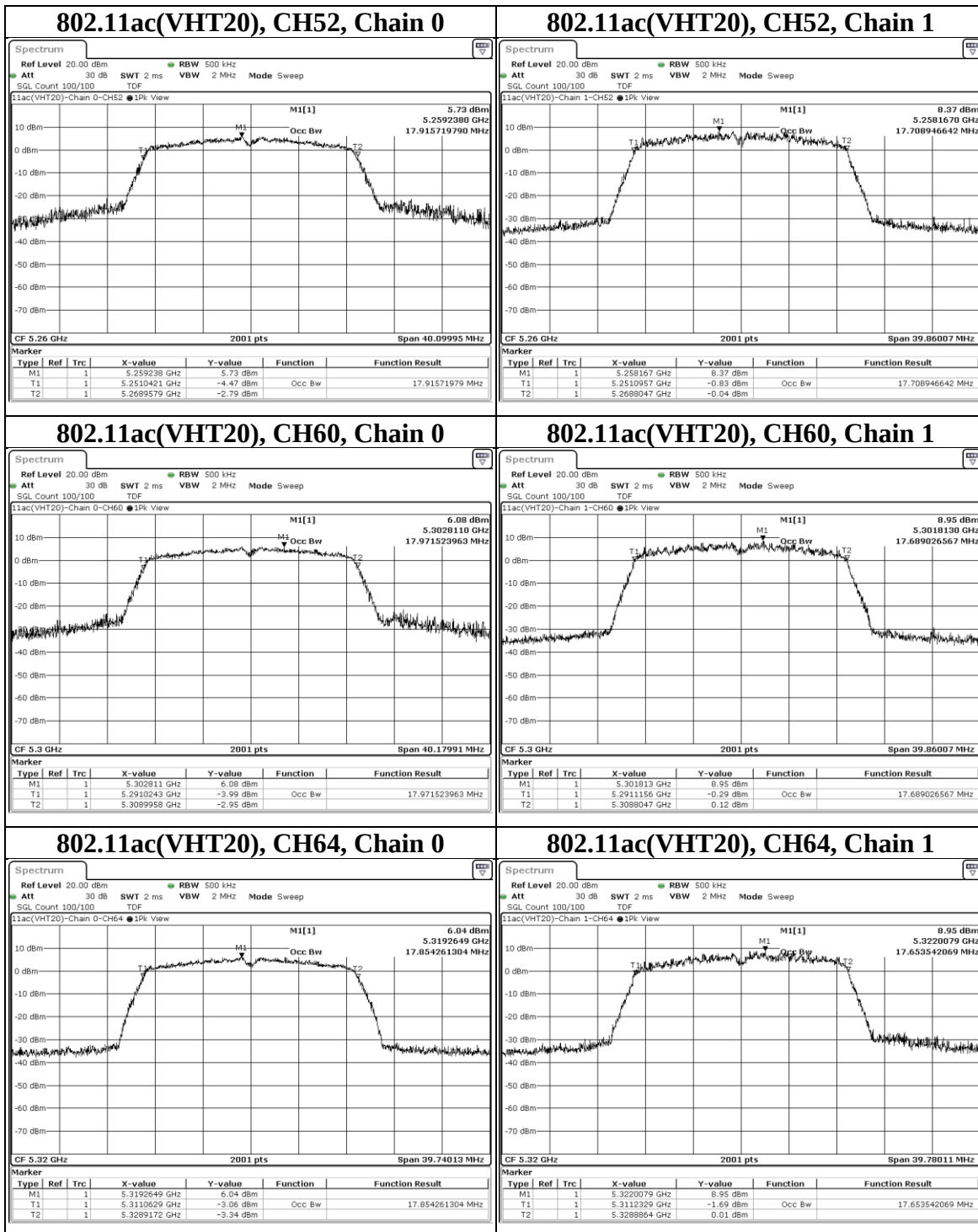




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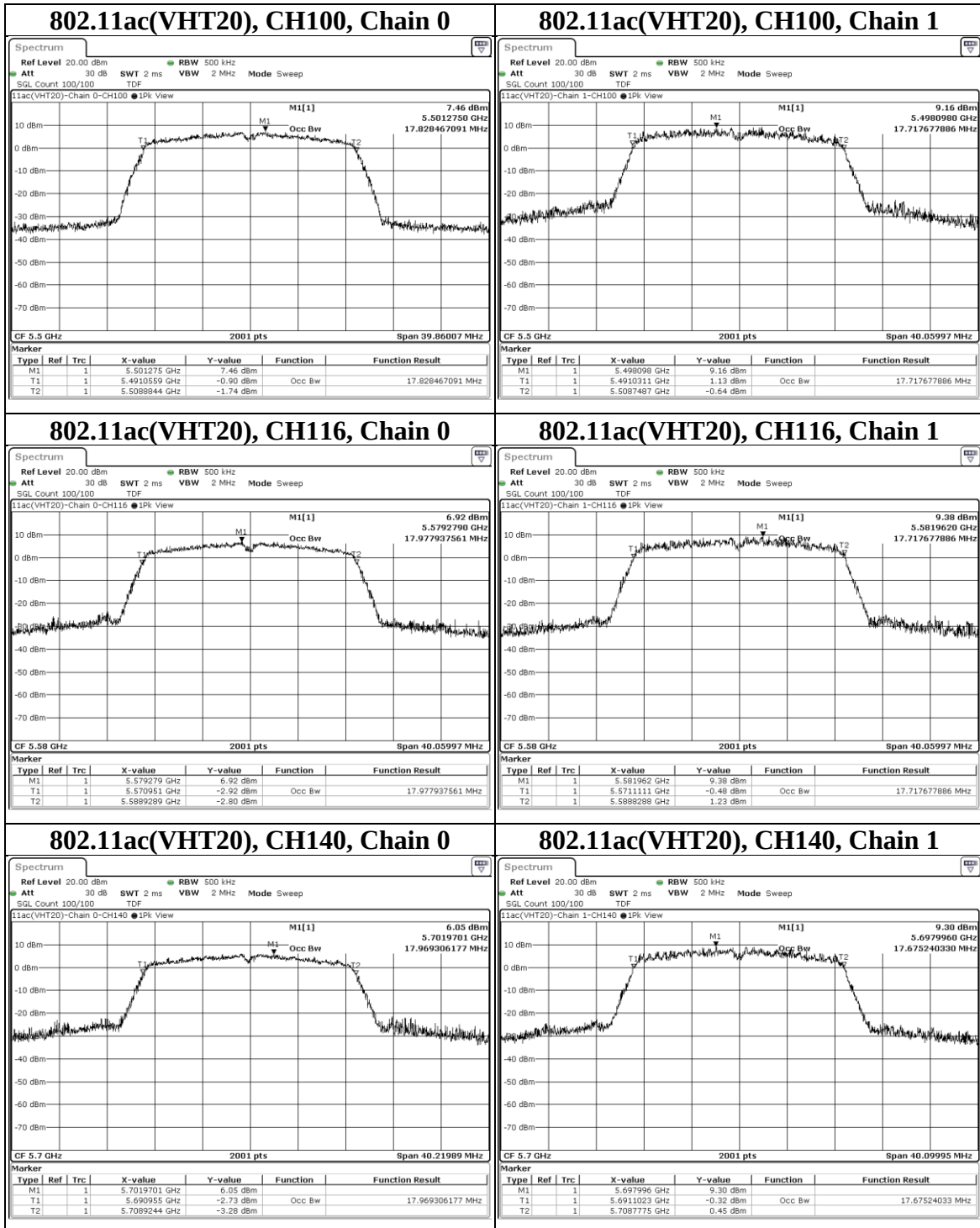
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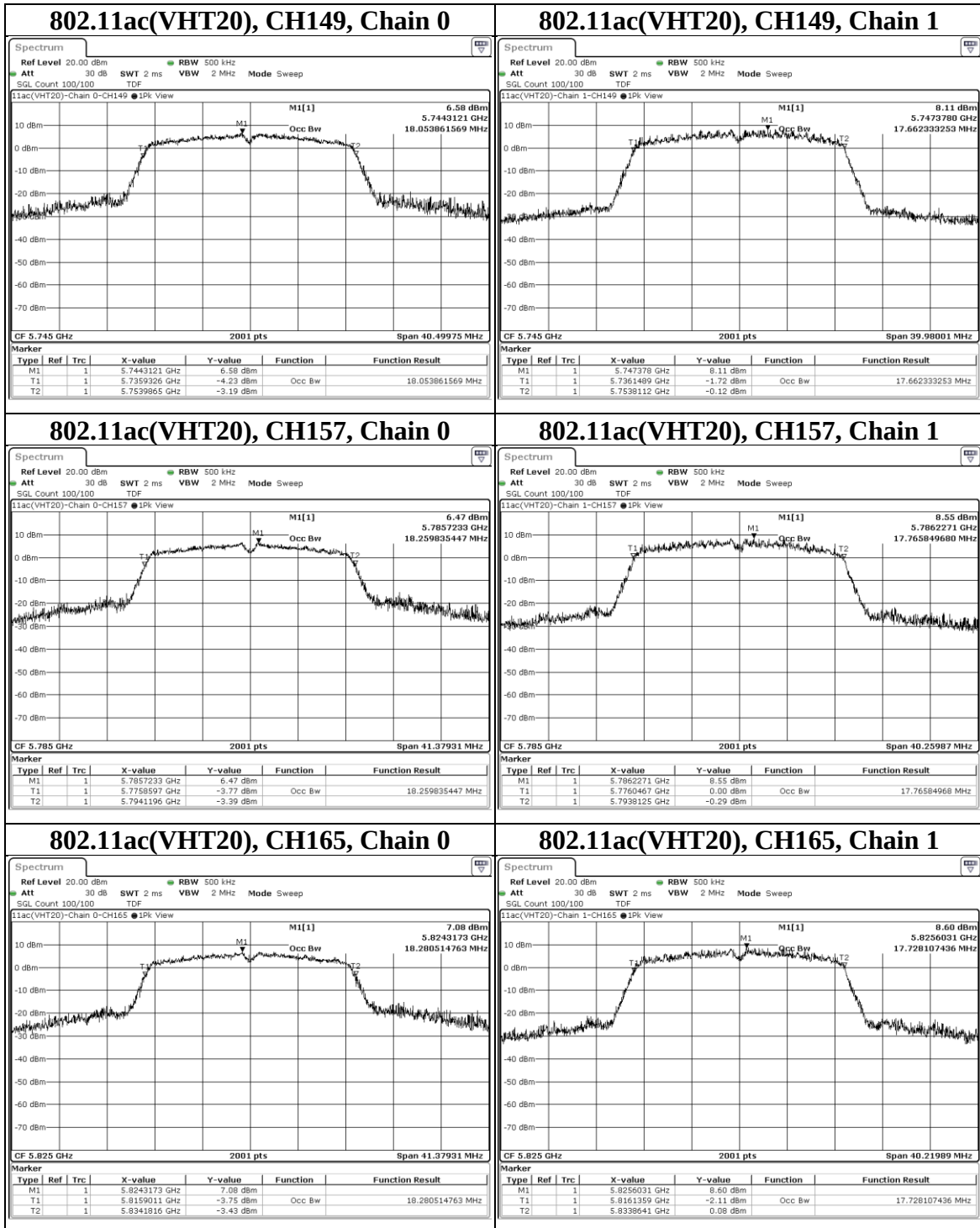
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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ac(VHT40)	38	5190	35.979	36.323	N/A	Pass
	46	5230	36.253	36.558	N/A	Pass
	54	5270	36.06	36.323	N/A	Pass
	62	5310	36.097	36.558	N/A	Pass
	102	5510	36.135	36.481	N/A	Pass
	110	5550	36.137	36.05	N/A	Pass
	134	5670	36.214	36.249	N/A	Pass
	151	5755	36.329	36.285	N/A	Pass
	159	5795	36.666	36.52	N/A	Pass

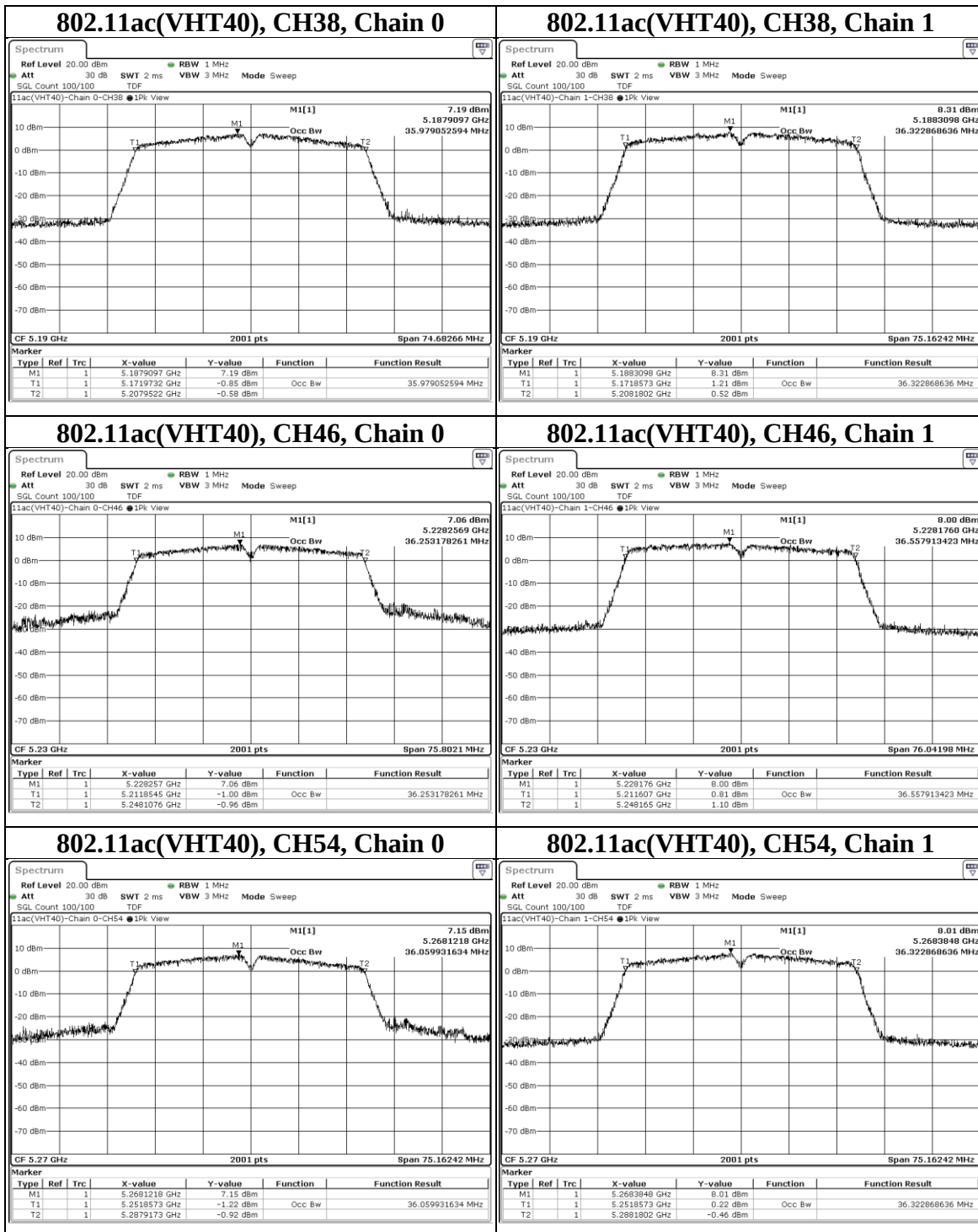
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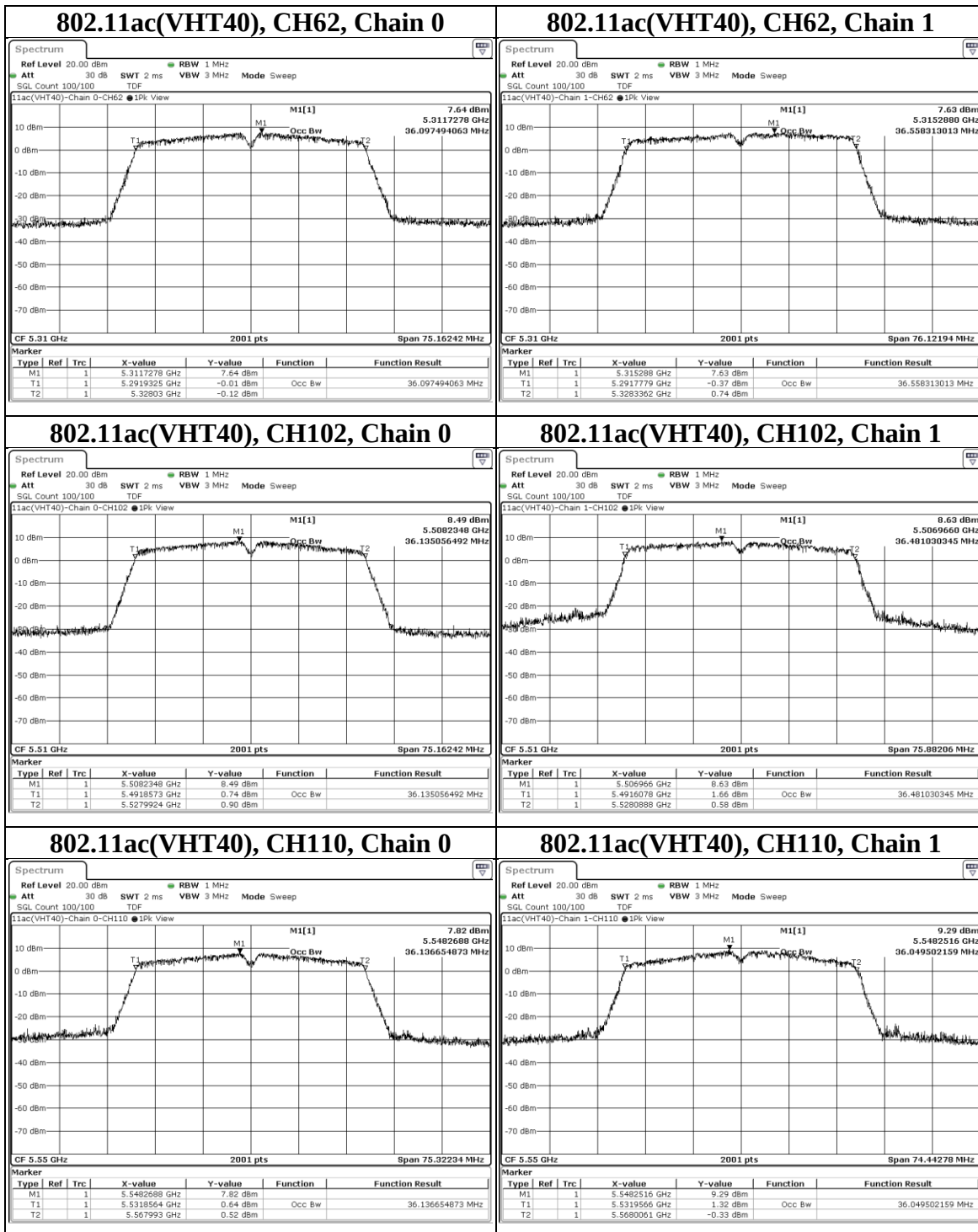
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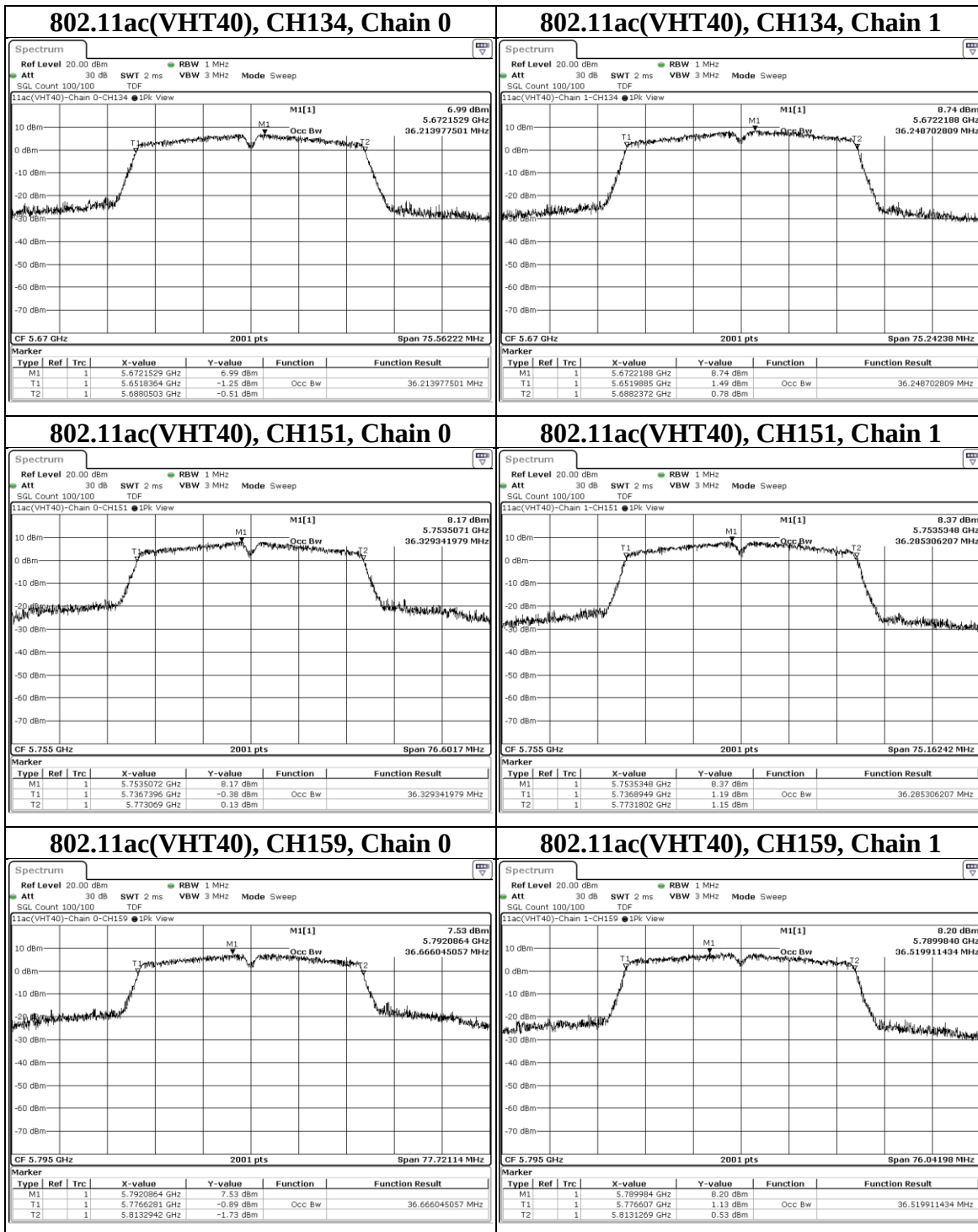
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Mode	CH	Freq (MHz)	OBW (MHz)		Limit (MHz)	Result
			Chain 0	Chain 1		
802.11ac(VHT80)	42	5210	76.042	75.482	N/A	Pass
	58	5290	76.282	76.202	N/A	Pass
	106	5530	76.282	76.122	N/A	Pass
	122	5610	76.202	75.242	N/A	Pass
	155	5775	76.682	76.042	N/A	Pass

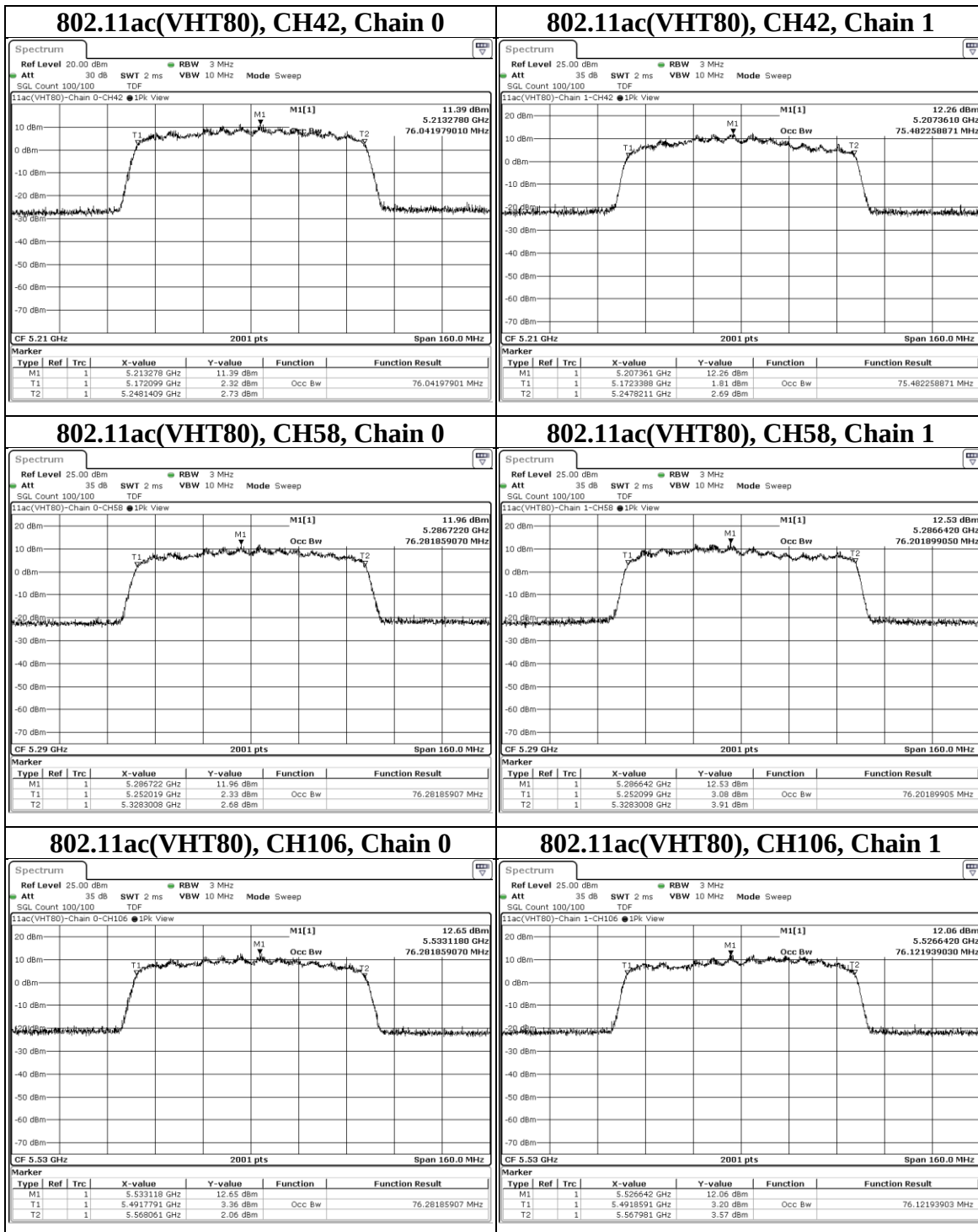
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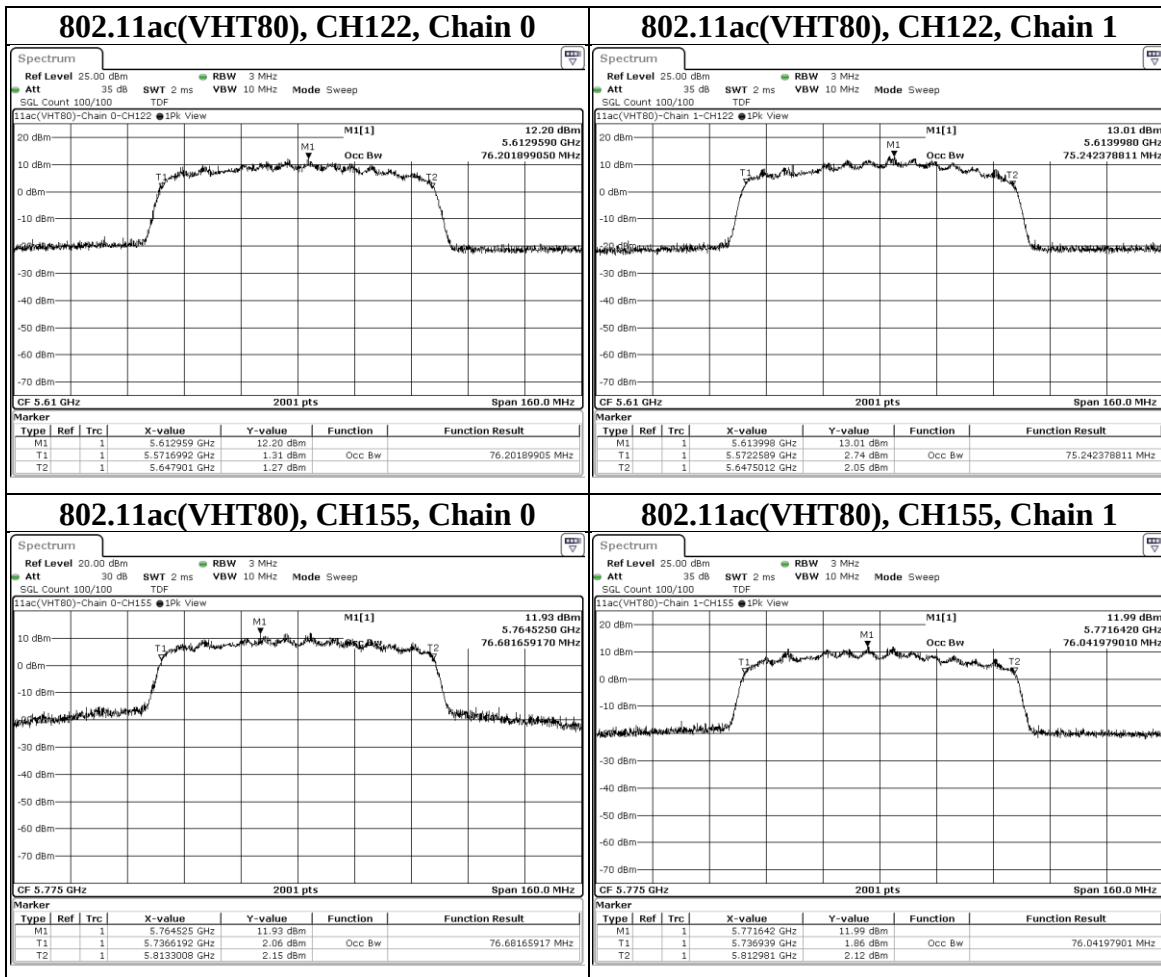
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9.4. Conducted output power

Requirements

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	1 Watt (30 dBm) Max. e.i.r.p $\leq$ 125mW(21 dBm) at any elevation angle above 30 degrees as measured from the horizon If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
		Fixed point-to-point Access Point	1 Watt (30 dBm) If $G_{TX} > 23$ dBi, then $P_{Out} = 30 - (G_{TX} - 23)$
		Indoor Access Point	1 Watt (30 dBm) If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$
	√	Client device	250mW (24 dBm) If $G_{TX} > 6$ dBi, then $P_{Out} = 23.98 - (G_{TX} - 6)$
U-NII-2A	√		250mW (24 dBm) or 11 dBm+10 log B* If $G_{TX} > 6$ dBi, then $P_{Out} = 23.98 - (G_{TX} - 6)$
U-NII-2C	√		250mW (24 dBm) or 11 dBm+10 log B* If $G_{TX} > 6$ dBi, then $P_{Out} = 23.98 - (G_{TX} - 6)$
U-NII-3	√		For Point-to-multipoint systems (P2M): 1 Watt (30 dBm). If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ For Point-to-point systems (P2P): 1 Watt (30 dBm)

Note:

- P_{Out} = maximum conducted output power in dBm,
- G_{TX} = the maximum transmitting antenna directional gain in dBi.
- B is the 26 dB emission bandwidth in megahertz
- Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / N_{ant}]$ dBi.
Nant: Number of Transmit Antennas
G1, G2,..., Gn: Gain of Individual Antennas
- Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any N_{ANT} ;
Array Gain = $5 \log(N_{ANT}/N_{SS})$ dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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Test Procedure

For Average Power Measurement

Test method PM-G

For 802.11a, 802.11n (HT20), 802.11n (HT40)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst and set the detector to AVERAGE. Duty factor is not added to measured value.

Test method SA-1

For 802.11ac (VHT80)

- a. Set span to encompass the entire 26 dB EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- b. Set sweep trigger*.
- c. Set RBW = 1 MHz.
- d. Set VBW $\geq$ 3 MHz
- e. Number of points in sweep $\geq$ 2 Span / RBW.
- f. Sweep time $\leq$ (number of points in sweep) * T
- g. Using emission bandwidth to determine the frequency span for integration the channel bandwidth.
- h. Detector = RMS.
- i. Trace mode = max hold.
- j. Allow max hold to run for at least 60 seconds, or longer as needed to allow the trace to stabilize.

* If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq$ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run.”

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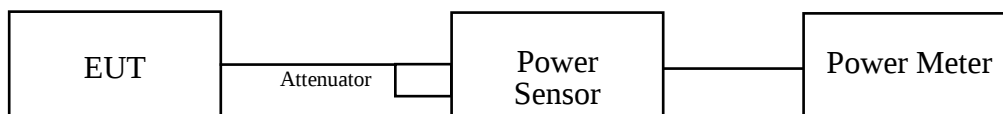
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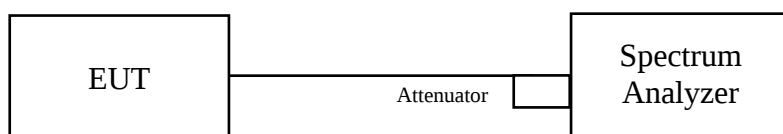


Test Setup

For Average Power Measurement



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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Test Data

802.11a

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass/Fail
		Chain 0	Chain 1				
36	5180	16.52	16.19	86.497	19.37	23.98	PASS
44	5220	16.43	16.20	85.704	19.33	23.98	PASS
48	5240	16.31	16.05	82.985	19.19	23.98	PASS
52	5260	16.44	16.23	86.099	19.35	23.9	PASS
60	5300	16.54	16.32	87.902	19.44	23.9	PASS
64	5320	16.39	16.24	85.704	19.33	23.9	PASS
100	5500	16.00	16.31	82.604	19.17	23.9	PASS
116	5580	16.03	16.59	85.704	19.33	23.9	PASS
140	5700	16.05	16.45	84.333	19.26	23.9	PASS
149	5745	16.07	16.31	83.176	19.20	30	PASS
157	5785	16.03	16.25	82.224	19.15	30	PASS
165	5825	16.32	16.56	88.105	19.45	30	PASS

Note: The directional gain = 3.83 dBi < 6 dBi, so the power limit shall not be reduced.

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802.11ac (VHT20)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass/Fail
		Chain 0	Chain 1				
36	5180	15.39	15.20	67.764	18.31	23.98	PASS
44	5220	15.33	15.26	67.764	18.31	23.98	PASS
48	5240	15.21	15.10	65.615	18.17	23.98	PASS
52	5260	15.26	15.17	66.527	18.23	23.9	PASS
60	5300	15.45	15.43	69.984	18.45	23.9	PASS
64	5320	15.29	15.33	67.92	18.32	23.9	PASS
100	5500	15.10	15.84	70.795	18.50	23.9	PASS
116	5580	15.13	15.64	69.183	18.40	23.9	PASS
140	5700	15.05	15.50	67.453	18.29	23.9	PASS
149	5745	15.18	15.50	68.391	18.35	30	PASS
157	5785	15.16	15.33	66.988	18.26	30	PASS
165	5825	15.26	15.52	69.183	18.40	30	PASS

Note: The directional gain = 3.83 dBi < 6 dBi, so the power limit shall not be reduced.

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802.11ac (VHT40)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass/Fail
		Chain 0	Chain 1				
38	5190	15.17	15.07	65.013	18.13	23.98	PASS
46	5230	15.25	15.18	66.527	18.23	23.98	PASS
54	5270	15.50	15.39	70.146	18.46	23.98	PASS
62	5310	15.54	15.41	70.632	18.49	23.98	PASS
102	5510	15.06	15.68	69.024	18.39	23.98	PASS
110	5550	15.11	15.22	65.766	18.18	23.98	PASS
134	5670	15.05	15.38	66.527	18.23	23.98	PASS
151	5755	15.42	15.54	70.632	18.49	30	PASS
159	5795	15.33	15.38	68.707	18.37	30	PASS

Note: The directional gain = 3.83 dBi < 6 dBi, so the power limit shall not be reduced.

802.11ac (VHT80)

Channel	Channel Frequency (MHz)	Maximum Conducted Power (dBm)		Total Power (mW)	Total Power (dBm)	Power Limit (dBm)	Pass/Fail
		Chain 0	Chain 1				
42	5210	14.82	14.60	59.156	17.72	23.98	PASS
58	5290	15.08	14.80	62.373	17.95	23.98	PASS
106	5530	14.55	14.74	58.345	17.66	23.98	PASS
122	5610	15.18	15.11	65.464	18.16	23.98	PASS
138	5690	15.08	15.47	67.453	18.29	23.98	PASS
155	5775	15.42	15.44	69.823	18.44	30	PASS

Note: The directional gain = 3.83 dBi < 6 dBi, so the power limit shall not be reduced.

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9.5. Power Spectral Density

Requirements

Operation Band	EUT Category		Limit
U-NII-1		Outdoor Access Point	17dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 17 - (G_{TX} - 6)$
		Fixed point-to-point Access Point	17dBm/ MHz If $G_{TX} > 23$ dBi, then $PSD = 17 - (G_{TX} - 23)$
		Indoor Access Point	17dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 17 - (G_{TX} - 6)$
	√	Client device	11dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 11 - (G_{TX} - 6)$
U-NII-2A	√		11dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 11 - (G_{TX} - 6)$
U-NII-2C	√		11dBm/ MHz If $G_{TX} > 6$ dBi, then $PSD = 11 - (G_{TX} - 6)$
U-NII-3	√		For Point-to-multipoint systems (P2M): 30dBm/ 500kHz. If $G_{TX} > 6$ dBi, then $PSD = 30 - (G_{TX} - 6)$ For Point-to-point systems (P2P): 30dBm/ 500kHz

Note:

1. PSD = power spectral density that he same method as used to determine the conducted output power shall be used to determine the power spectral density. And power spectral density in dBm/MHz
2. G_{TX} = the maximum transmitting antenna directional gain in dBi.
3. Directional Gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{Gn/20})^2 / Nant]$ dBi.

Nant: Number of Transmit Antennas

G1, G2,..., Gn: Gain of Individual Antennas

4. Method a) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

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Test procedure

For U-NII-1, U-NII-2A, U-NII-2C band:

Using method as below:

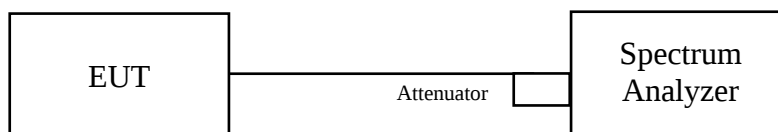
- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW $\geq$ 3 RBW, Detector = RMS
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value. (if Duty cycle $< 98\%$, add $10 \log (1/\text{duty cycle})$)

For U-NII-3 band:

Using method as below:

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 300 kHz, Set VBW $\geq$ 1 MHz, Detector = RMS
- Use the peak marker function to determine the maximum power level in any 300 kHz band segment within the fundamental EBW.
- Scale the observed power level to an equivalent value in 500 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where $\text{BWCF} = 10 \log (500 \text{ kHz}/300 \text{ kHz})$
- Sweep time = auto, trigger set to “free run”.
- Trace average at least 100 traces in power averaging mode.
- Record the max value. (if Duty cycle $< 98\%$, add $10 \log (1/\text{duty cycle})$)

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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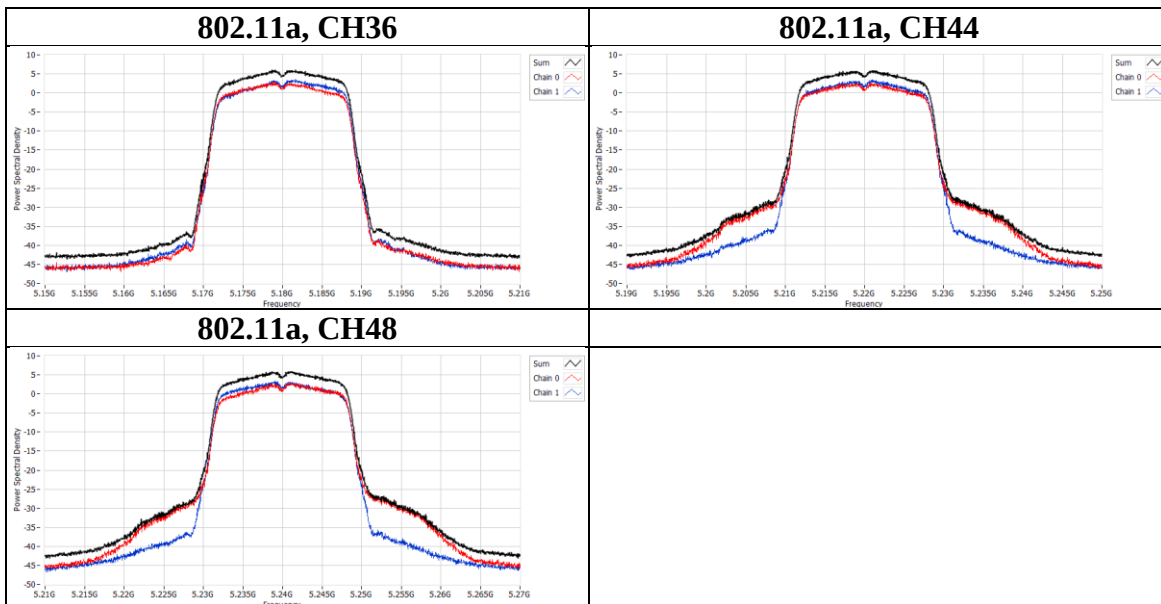
Doc No: 17-EM-F0878 / 6.0



Test Data

Mode (U-NII-1)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	36	5180	6.69	6.06	10.31	Pass
	44	5220	6.69	5.91	10.31	Pass
	48	5240	6.69	5.95	10.31	Pass

Mode (U-NII-1)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11a	36	5180	3.032	3.68
	44	5220	2.54	3.483
	48	5240	3.012	3.456



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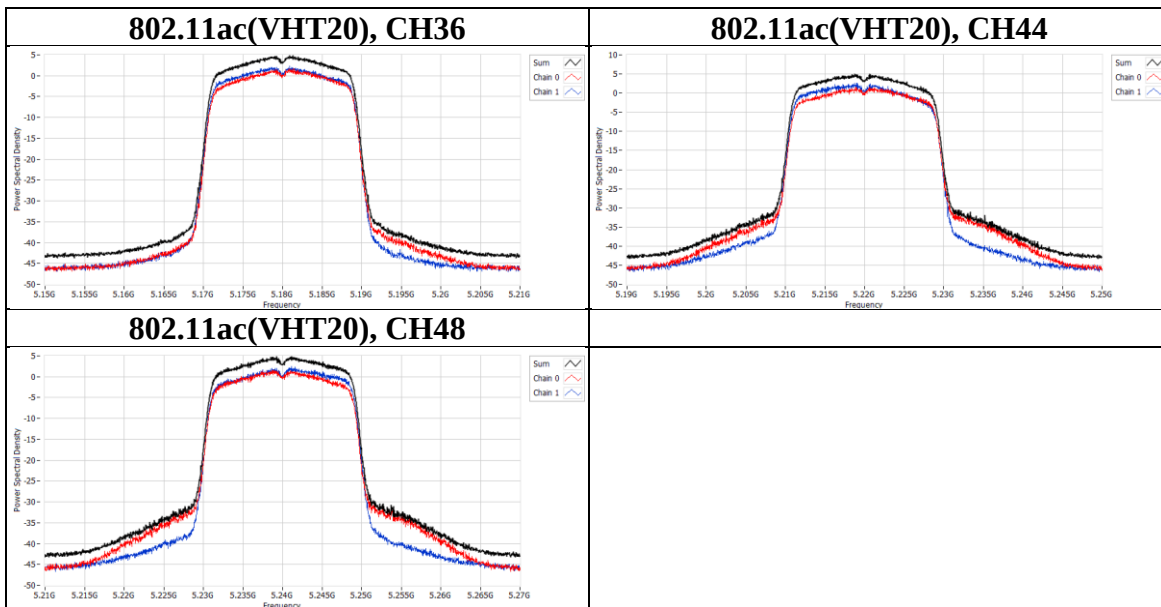
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Mode (U-NII-1)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT20)	36	5180	6.69	4.87	10.31	Pass
	44	5220	6.69	5.04	10.31	Pass
	48	5240	6.69	4.81	10.31	Pass

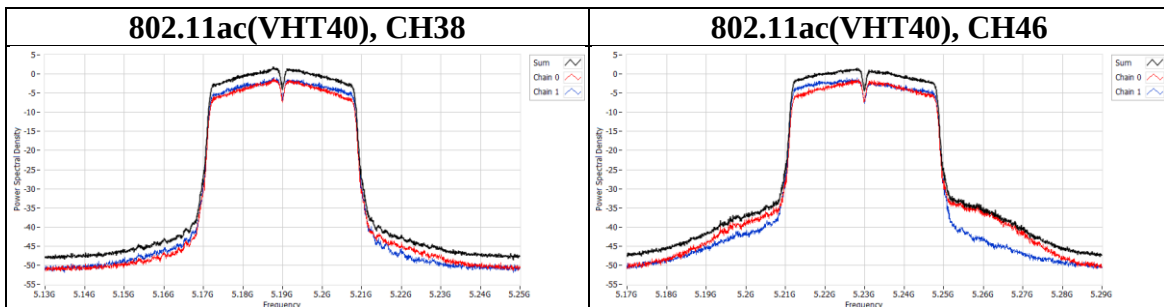
Mode (U-NII-1)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT20)	36	5180	1.662	2.308
	44	5220	1.574	2.598
	48	5240	1.595	2.405





Mode (U-NII-1)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT40)	38	5190	6.69	1.86	10.31	Pass
	46	5230	6.69	1.48	10.31	Pass

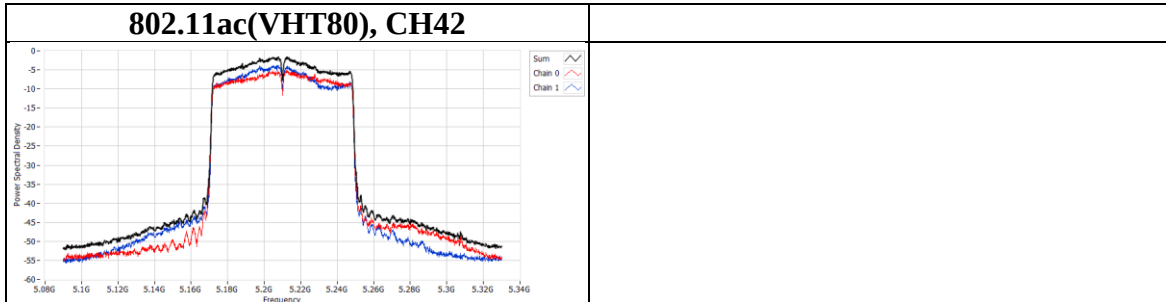
Mode (U-NII-1)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT40)	38	5190	-1.265	-0.774
	46	5230	-1.414	-1.026





Mode (U-NII-1)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT80)	42	5210	6.69	-1.52	10.31	Pass

Mode (U-NII-1)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT80)	42	5210	-5.207	-3.721



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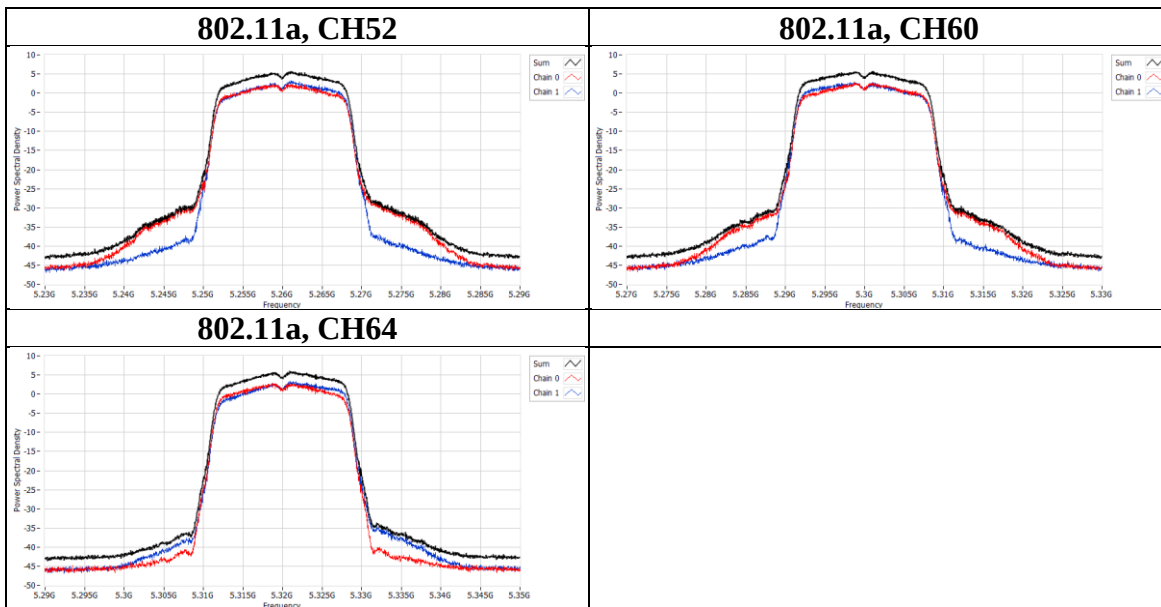
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Mode (U-NII-2A)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	52	5260	6.69	5.68	10.31	Pass
	60	5300	6.69	5.65	10.31	Pass
	64	5320	6.69	6	10.31	Pass

Mode (U-NII-2A)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11a	52	5260	2.404	3.279
	60	5300	2.873	2.886
	64	5320	2.878	3.371



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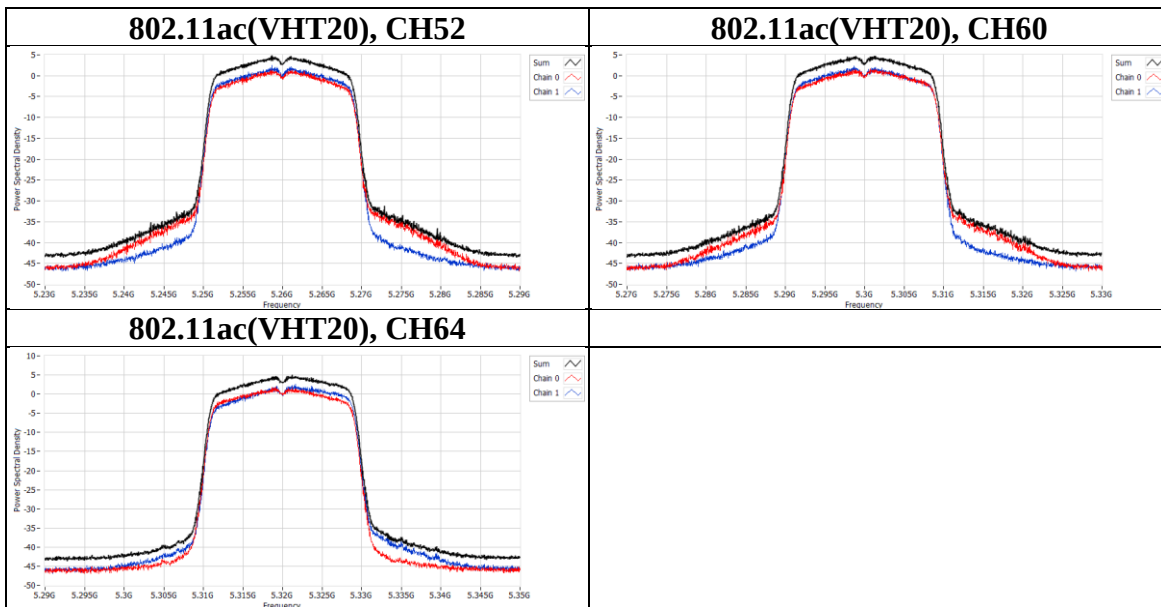
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Doc No: 17-EM-F0878 / 6.0



Mode (U-NII-2A)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT20)	52	5260	6.69	4.79	10.31	Pass
	60	5300	6.69	4.69	10.31	Pass
	64	5320	6.69	5	10.31	Pass

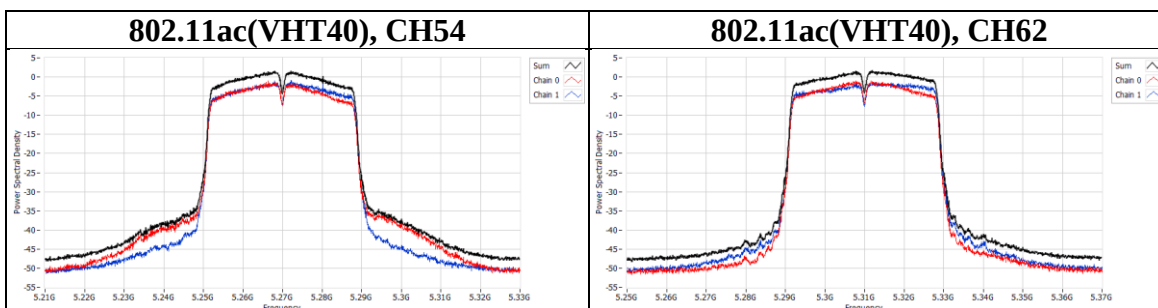
Mode (U-NII-2A)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT20)	52	5260	1.412	2.445
	60	5300	1.649	2.276
	64	5320	1.925	2.53





Mode (U-NII-2A)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT40)	54	5270	6.69	1.58	10.31	Pass
	62	5310	6.69	1.78	10.31	Pass

Mode (U-NII-2A)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT40)	54	5270	-1.014	-0.884
	62	5310	-1.035	-1.259

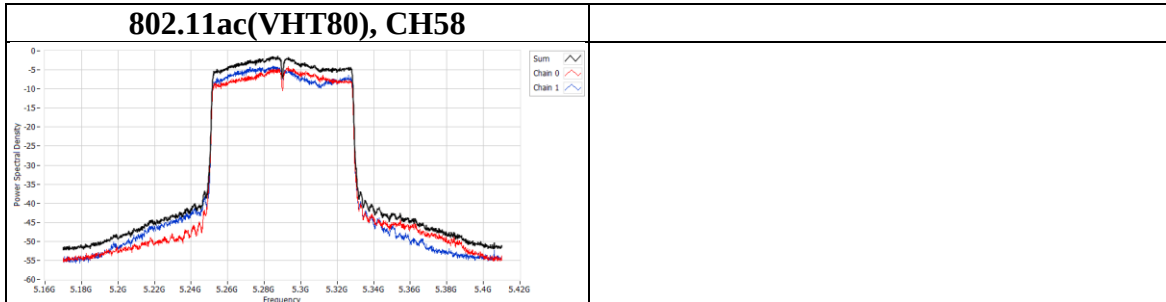




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Mode (U-NII-2A)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT80)	58	5290	6.69	-1.41	10.31	Pass

Mode (U-NII-2A)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT80)	58	5290	-4.183	-3.984



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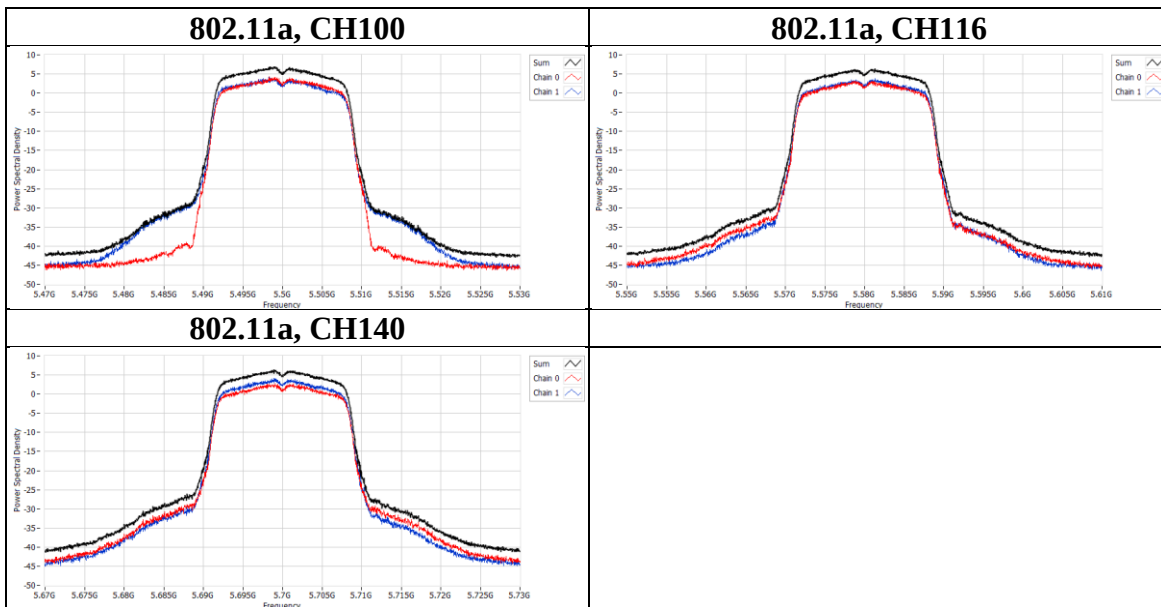
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Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11a	100	5500	6.69	6.93	10.31	Pass
	116	5580	6.69	6.32	10.31	Pass
	140	5700	6.69	6.37	10.31	Pass

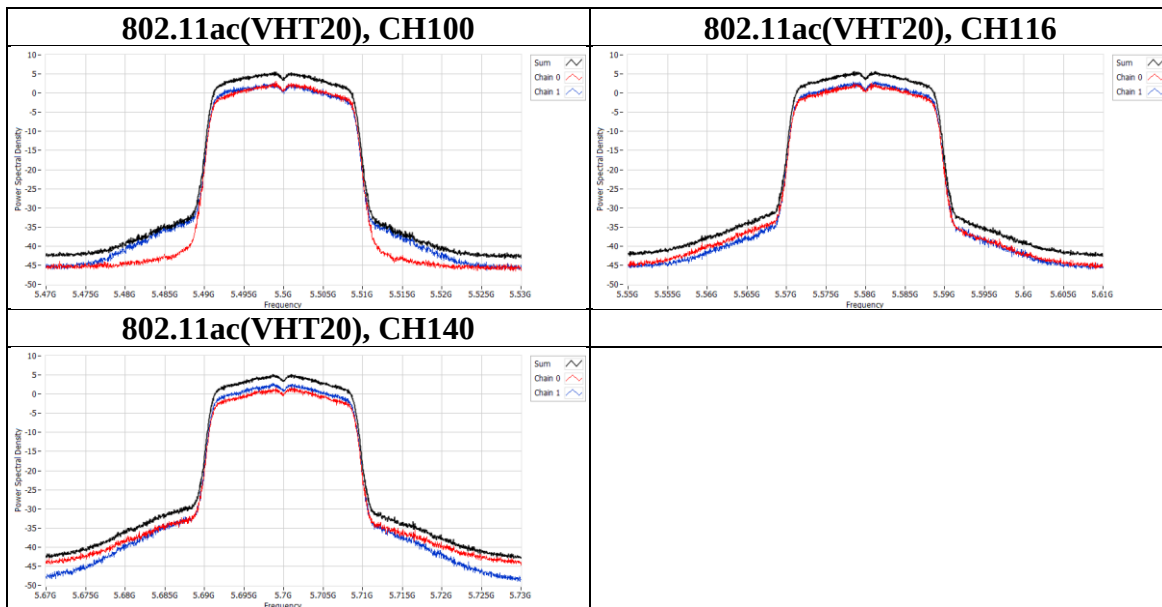
Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11a	100	5500	4.253	4.181
	116	5580	3.164	3.866
	140	5700	2.764	4.103





Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT20)	100	5500	6.69	5.51	10.31	Pass
	116	5580	6.69	5.72	10.31	Pass
	140	5700	6.69	5.15	10.31	Pass

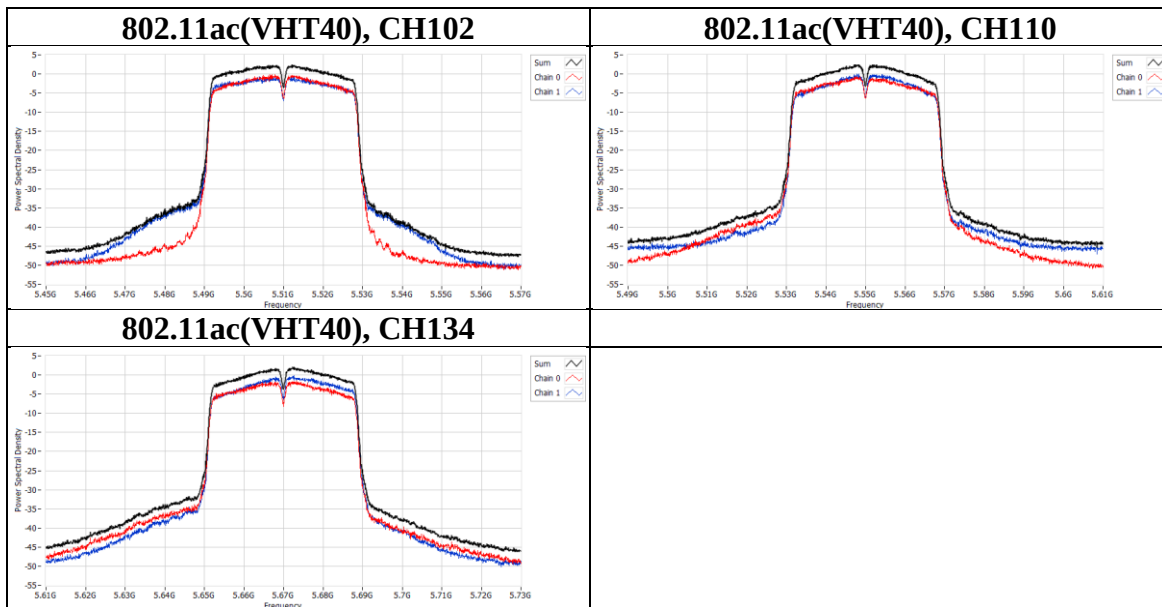
Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT20)	100	5500	3.048	2.638
	116	5580	2.689	2.95
	140	5700	1.873	2.792





Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT40)	102	5510	6.69	2.45	10.31	Pass
	110	5550	6.69	2.5	10.31	Pass
	134	5670	6.69	2.07	10.31	Pass

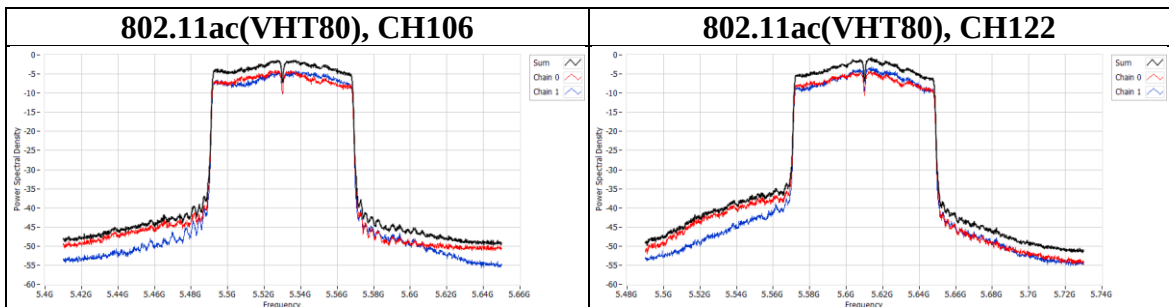
Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT40)	102	5510	-0.11	-0.634
	110	5550	-0.728	0.016
	134	5670	-1.58	-0.227





Mode (U-NII-2C)	CH	Freq (MHz)	Directional Gain (dBi)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Result
802.11ac(VHT80)	106	5530	6.69	-1.31	10.31	Pass
	122	5610	6.69	-0.77	10.31	Pass

Mode (U-NII-2C)	CH	Freq (MHz)	PSD per Chain (dBm/MHz)	
			Chain 0	Chain 1
802.11ac(VHT80)	106	5530	-3.89	-4.06
	122	5610	-4.229	-3.138



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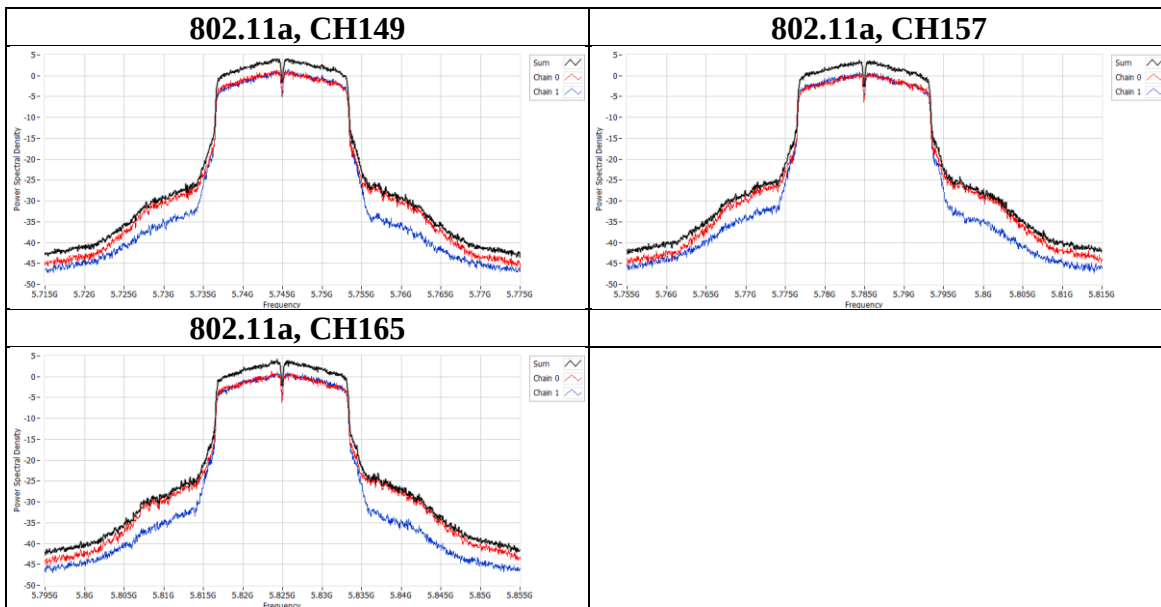
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Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11a	149	5745	2.22	6.69	6.33	29.31	Pass
	157	5785	2.22	6.69	6	29.31	Pass
	165	5825	2.22	6.69	6.4	29.31	Pass

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11a	149	5745	1.423	1.468
	157	5785	0.853	0.807
	165	5825	1.411	1.224



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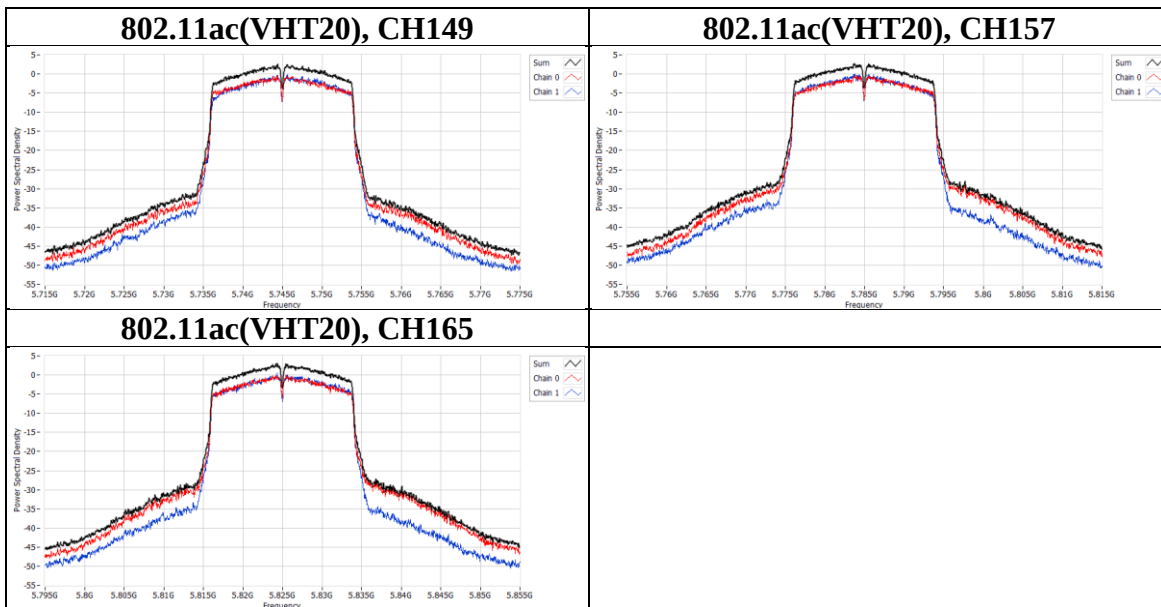
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Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11ac(VHT20)	149	5745	2.22	6.69	4.81	29.31	Pass
	157	5785	2.22	6.69	4.93	29.31	Pass
	165	5825	2.22	6.69	5.29	29.31	Pass

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11ac(VHT20)	149	5745	-0.341	-0.212
	157	5785	-0.345	-0.048
	165	5825	0.035	0.574



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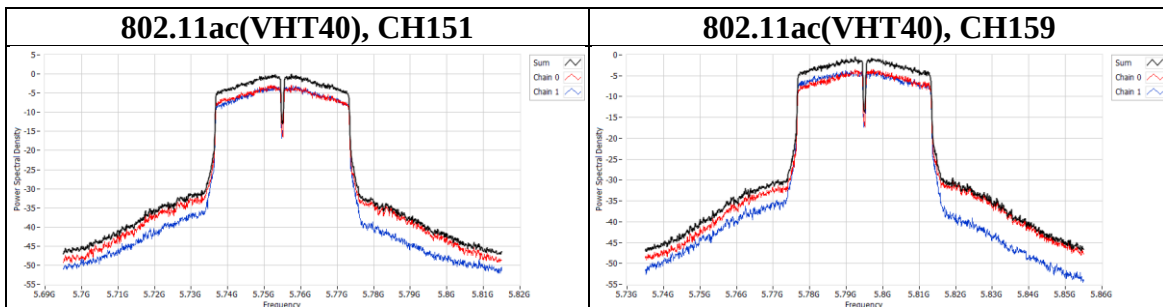
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Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11ac(VHT40)	151	5755	2.22	6.69	2.28	29.31	Pass
	159	5795	2.22	6.69	1.74	29.31	Pass

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11ac(VHT40)	151	5755	-2.885	-2.945
	159	5795	-3.431	-3.52



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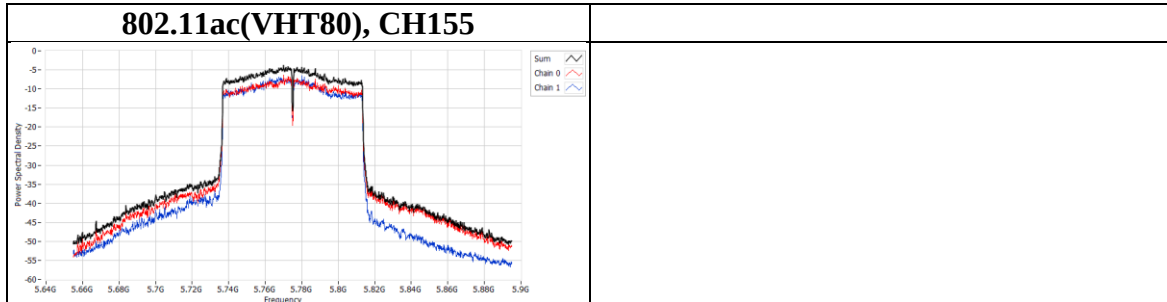
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Mode (U-NII-3)	CH	Freq (MHz)	BWCF	Directional Gain (dBi)	Total PSD (dBm/500kHz)	Limit (dBm/500kHz)	Result
802.11ac(VHT80)	155	5775	2.22	6.69	-1.62	29.31	Pass

Mode (U-NII-3)	CH	Freq (MHz)	PSD per Chain (dBm/500kHz)	
			Chain 0	Chain 1
802.11ac(VHT80)	155	5775	-6.31	-6.59



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9.6. Frequency Stability

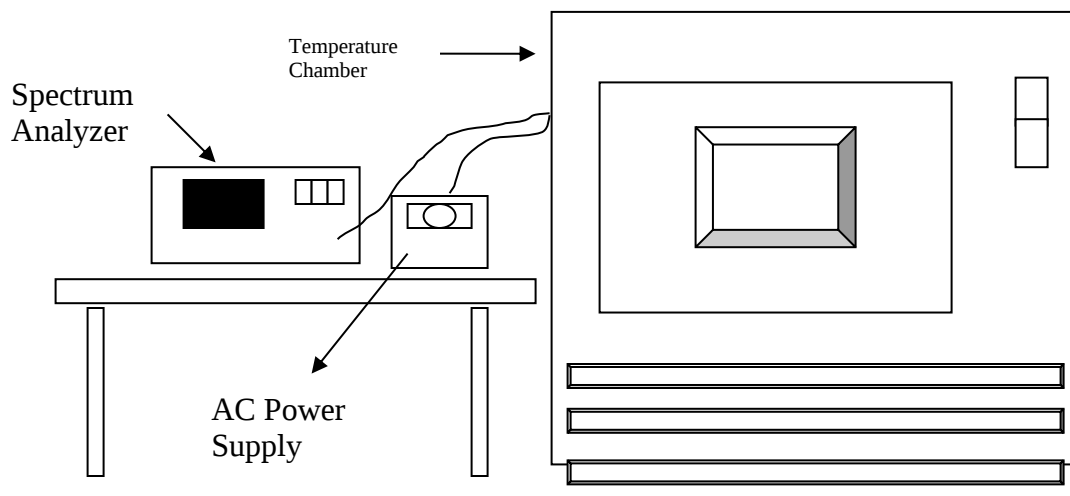
Requirements

The frequency of the carrier signal shall be maintained within band of operation.

Test procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

Test Setup



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Test Data

Frequency Stability Versus Temp.									
Operating Frequency: 5180 MHz									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
55	12	5179.9794	-3.98	5179.9831	-3.26	5179.9827	-3.34	5179.9839	-3.11
50	12	5180.0137	2.64	5180.0113	2.18	5180.0119	2.30	5180.0116	2.24
40	12	5179.9913	-1.68	5179.9911	-1.72	5179.9903	-1.87	5179.9898	-1.97
30	12	5180.0237	4.58	5180.0222	4.29	5180.0228	4.40	5180.0218	4.21
20	12	5180.0009	0.17	5180.0008	0.15	5180.0016	0.31	5179.9984	-0.31
10	12	5179.9734	-5.14	5179.9771	-4.42	5179.9739	-5.04	5179.9727	-5.27
0	12	5180.0051	0.98	5180.0089	1.72	5180.0045	0.87	5180.0055	1.06
-10	12	5180.0086	1.66	5180.0071	1.37	5180.0078	1.51	5180.0065	1.25
-20	12	5180.0157	3.03	5180.0182	3.51	5180.0184	3.55	5180.0171	3.30
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)	Measured Frequency (MHz)	Freq. Drift (ppm)
20	13.8	5180.0228	4.40	5180.0216	4.17	5180.0221	4.27	5180.0225	4.34
20	12	5180.0237	4.58	5180.0222	4.29	5180.0228	4.40	5180.0218	4.21
20	10.2	5180.0233	4.50	5180.0226	4.36	5180.023	4.44	5180.022	4.25

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9.7. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Limits of unwanted emission out of the restricted bands

Applicable To		Limit	
789033 D02 General UNII Test Procedure New Rules v02r01		Field Strength at 3m	
		PK:74 (dBμV/m)	AV:54 (dBμV/m)
Frequency Band	Applicable To	EIRP Limit	Equivalent Field Strength at 3m
5150~5250 MHz	15.407(b)(1)	PK:-27 (dBm/MHz)	PK:68.2(dBμV/m)
5250~5350 MHz	15.407(b)(2)		
5470~5725 MHz	15.407(b)(3)		
5725~5850 MHz	15.407(b)(4)(i)	PK:-27 (dBm/MHz) * ¹ PK:10 (dBm/MHz) * ² PK:15.6 (dBm/MHz) * ³ PK:27 (dBm/MHz) * ⁴	PK: 68.2(dBμV/m) * ¹ PK:105.2 (dBμV/m) * ² PK: 110.8(dBμV/m) * ³ PK:122.2 (dBμV/m) * ⁴
*1 beyond 75 MHz or more above of the band edge. *2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above. *3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above. *4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.			

Note:

The following formula is used to convert the effective isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
802.11a	1MHz	Refer to section 6.6 for duty cycle.
802.11n (HT20)		
802.11n (HT40)		
802.11ac (VHT80)		

- All modes of operation were investigated (includes all external accessories) and the worst-case emissions are reported, the other emission levels were low against the limit.
- Test data of Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
- Test data of Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
- Test data of Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
- Test data of Notation "@" = Fundamental Frequency
- Test data of Notation "*" = Only required peak limit or the peak result under 20 dB above and complies with AVG limit, AVG result is deemed to comply with AVG limit.

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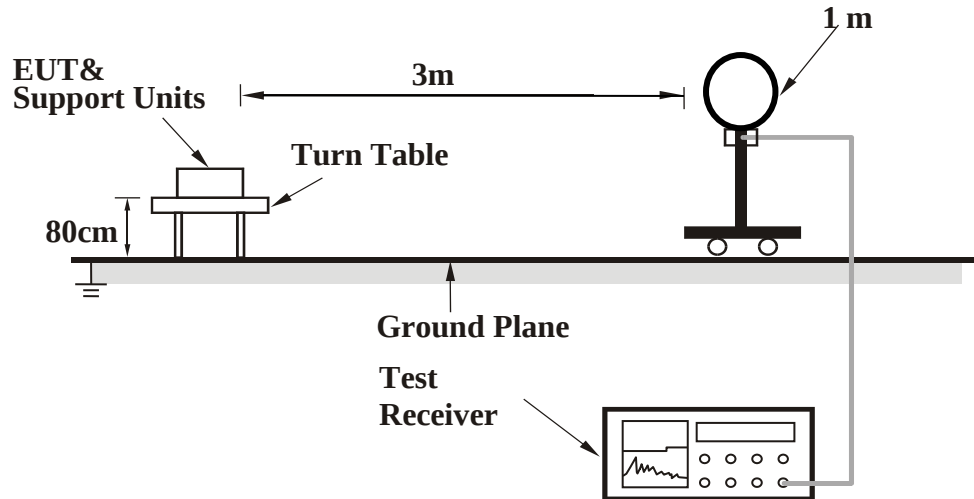
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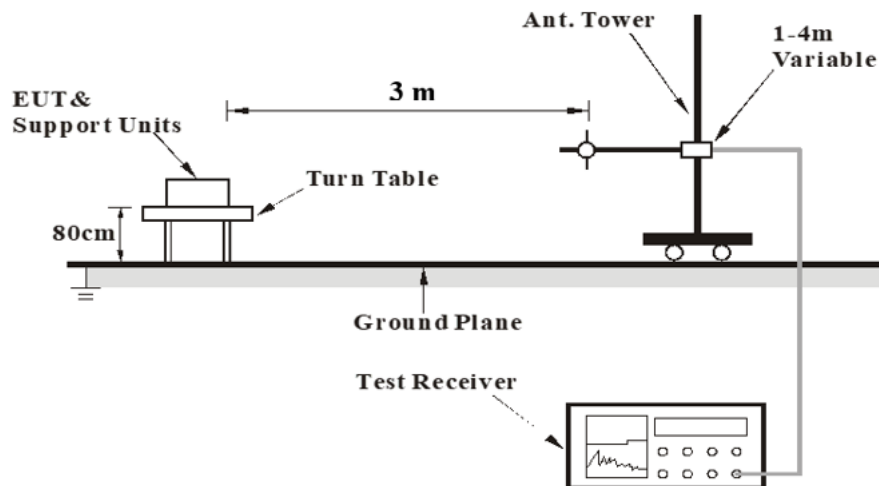


Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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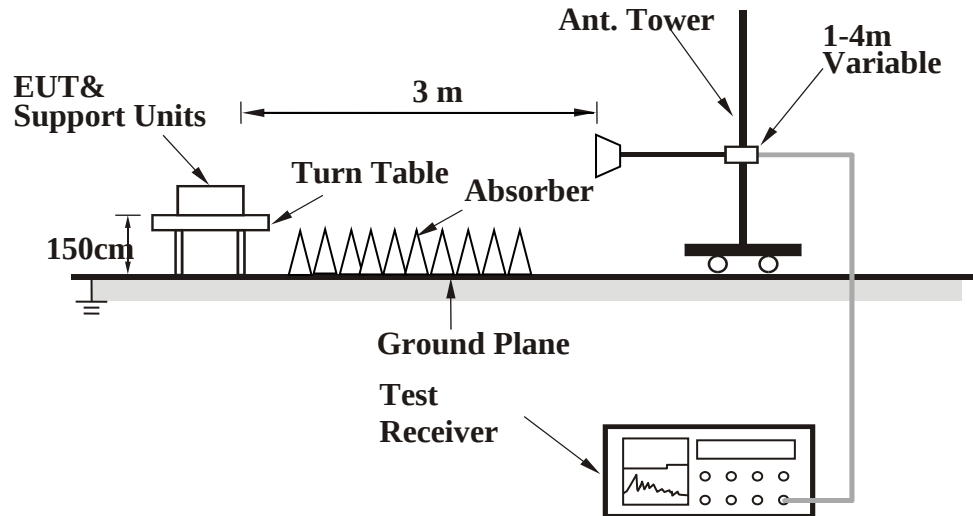
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.

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Test Data

Above 1 GHz

Mode	802.11a	Channel	36
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5145.95	42.73	13.41	56.14	74	-17.86	PK
		5149.8	33.8	13.4	47.2	54	-6.8	AVG
	@	5180	96.36	13.31	109.67	N/A	N/A	PK
	@	5180	88.27	13.31	101.58	N/A	N/A	AVG
	*	10360	33.19	17.51	50.7	68.2	-17.5	PK
Vertical		5116.9	43.63	13.43	57.06	74	-16.94	PK
		5149.1	33.46	13.4	46.86	54	-7.14	AVG
	@	5180	95.21	13.31	108.52	N/A	N/A	PK
	@	5180	89.61	13.31	102.92	N/A	N/A	AVG
	*	10360	33.85	17.51	51.36	68.2	-16.84	PK

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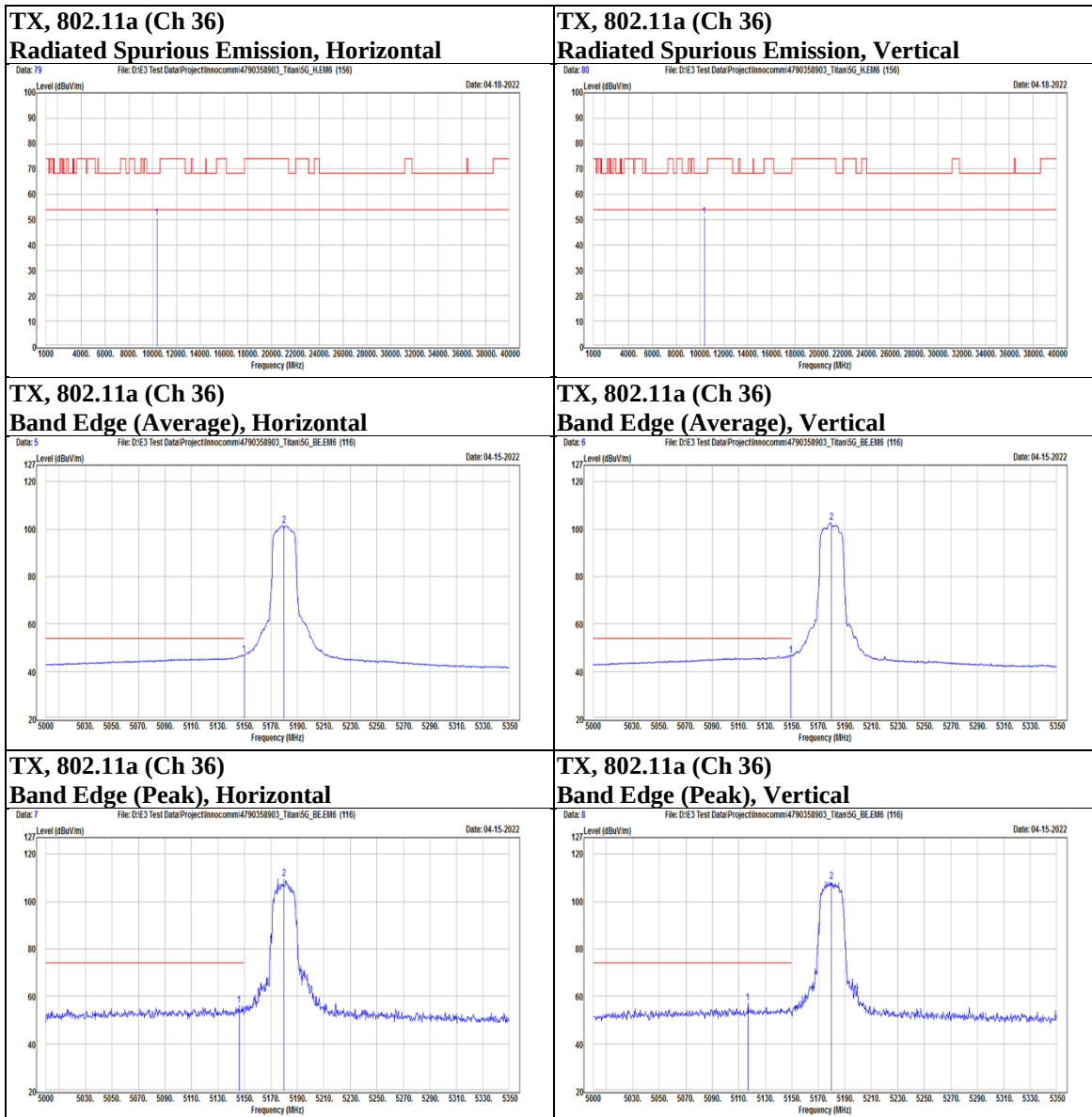
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Facsimile (FAX) :+886-3-583-7948

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Mode	802.11a	Channel	44
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5071.05	42.12	13.24	55.36	74	-18.64	PK
		5141.4	31.34	13.41	44.75	54	-9.25	AVG
	@	5220	96.3	13.12	109.42	N/A	N/A	PK
	@	5220	89.04	13.12	102.16	N/A	N/A	AVG
	*	10440	32.27	17.81	50.08	68.2	-18.12	PK
Vertical		5086.45	42.89	13.35	56.24	74	-17.76	PK
		5143.85	31.66	13.4	45.06	54	-8.94	AVG
	@	5220	94.6	13.12	107.72	N/A	N/A	PK
	@	5220	89.12	13.12	102.24	N/A	N/A	AVG
	*	10440	32.53	17.81	50.34	68.2	-17.86	PK

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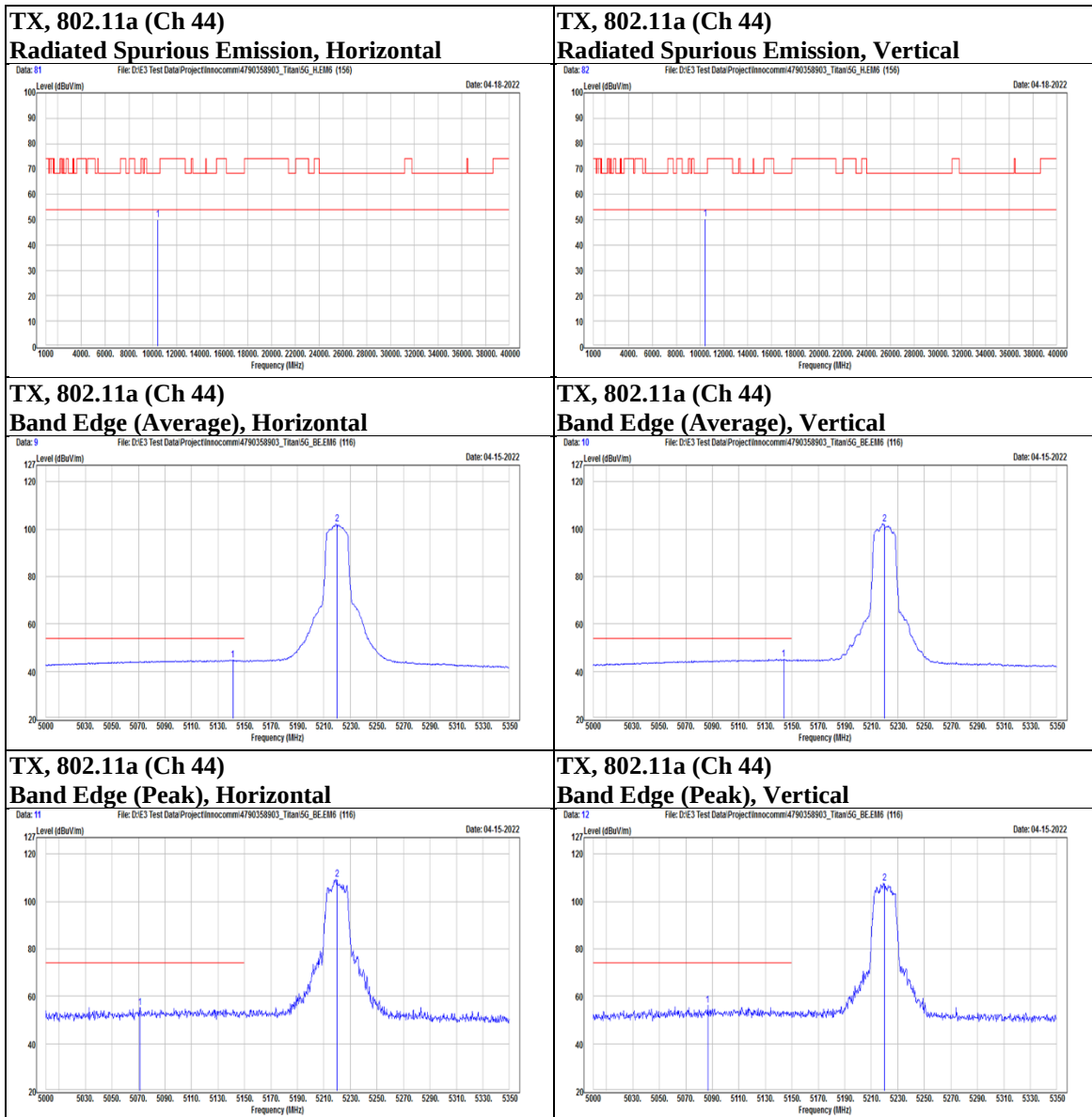
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Facsimile (FAX) :+886-3-583-7948

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Mode	802.11a	Channel	48
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal		5115.85	41.78	13.43	55.21	74	-18.79	PK
		5120.05	30.94	13.43	44.37	54	-9.63	AVG
	@	5240	95.89	12.97	108.86	N/A	N/A	PK
	@	5240	89.16	12.97	102.13	N/A	N/A	AVG
	*	10480	31.83	17.92	49.75	68.2	-18.45	PK
Vertical		5073.15	41.62	13.25	54.87	74	-19.13	PK
		5131.95	31.34	13.42	44.76	54	-9.24	AVG
	@	5240	95.47	12.97	108.44	N/A	N/A	PK
	@	5240	88.41	12.97	101.38	N/A	N/A	AVG
	*	10480	31.28	17.92	49.2	68.2	-19	PK

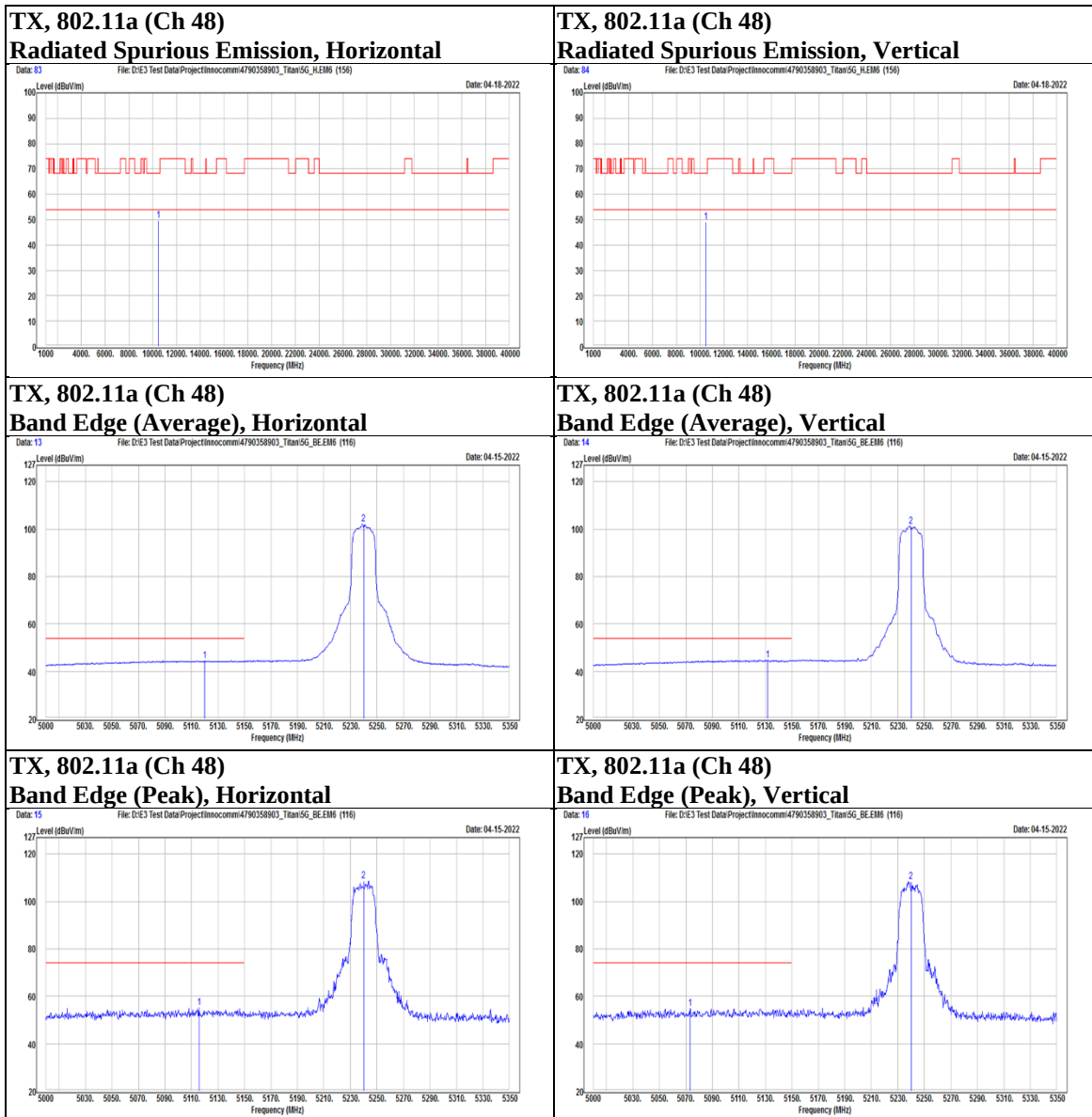
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Mode	802.11a	Channel	52
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5260	96.61	12.88	109.49	N/A	N/A	PK
	@	5260	88.46	12.88	101.34	N/A	N/A	AVG
		5350.2	29.9	13.01	42.91	54	-11.09	AVG
		5450.4	40.02	13.52	53.54	74	-20.46	PK
	*	10520	31.84	17.99	49.83	68.2	-18.37	PK
Vertical	@	5260	95.82	12.88	108.7	N/A	N/A	PK
	@	5260	88.98	12.88	101.86	N/A	N/A	AVG
		5351.7	30.5	13.02	43.52	54	-10.48	AVG
		5367	41.28	13.11	54.39	74	-19.61	PK
	*	10520	31.89	17.99	49.88	68.2	-18.32	PK

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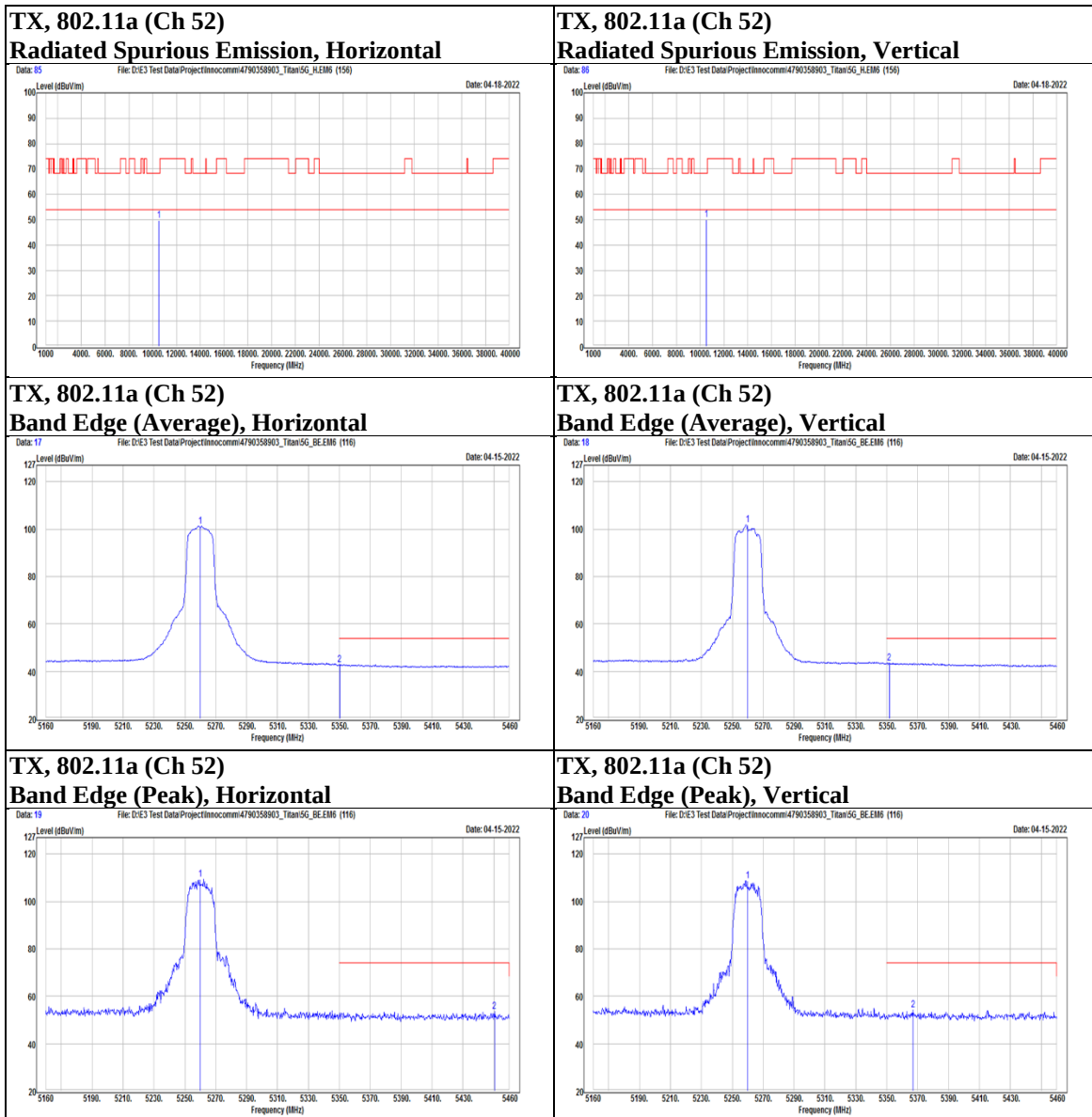
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Facsimile (FAX) :+886-3-583-7948

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Mode	802.11a	Channel	60
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Polarization	Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
		(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
Horizontal	@	5300	96.19	12.77	108.96	N/A	N/A	PK
	@	5300	88.3	12.77	101.07	N/A	N/A	AVG
		5356.8	30.39	13.05	43.44	54	-10.56	AVG
		5385.9	40.8	13.19	53.99	74	-20.01	PK
	*	10600	31.47	18.04	49.51	68.2	-18.69	PK
Vertical	@	5300	95.51	12.77	108.28	N/A	N/A	PK
	@	5300	88.74	12.77	101.51	N/A	N/A	AVG
		5351.7	31.38	13.02	44.4	54	-9.6	AVG
		5360.7	42.15	13.07	55.22	74	-18.78	PK
	*	10600	32.95	18.04	50.99	68.2	-17.21	PK

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