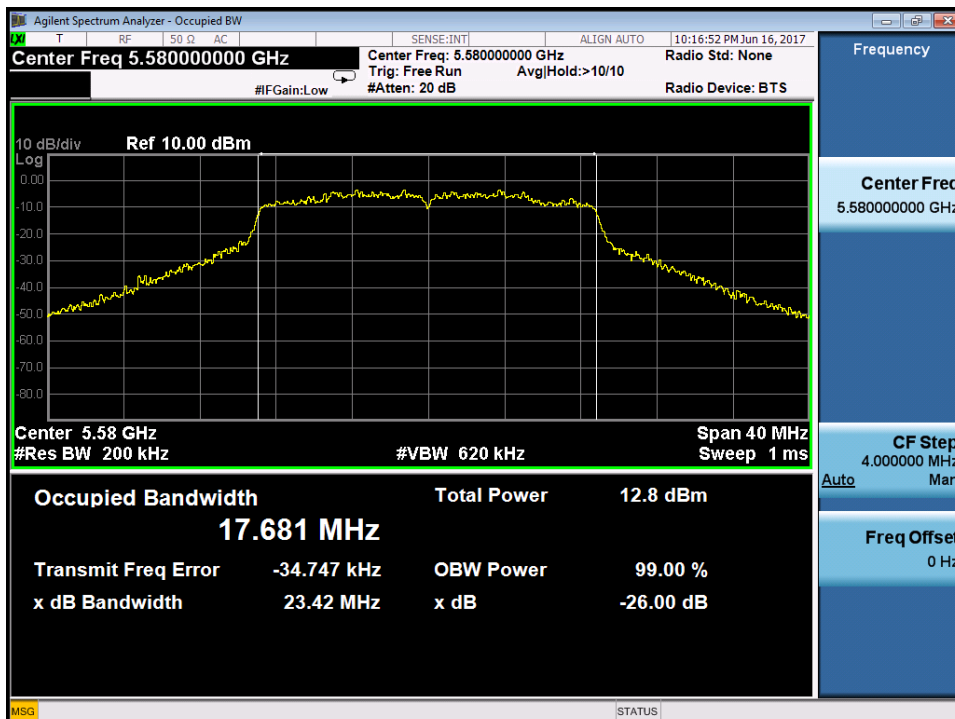
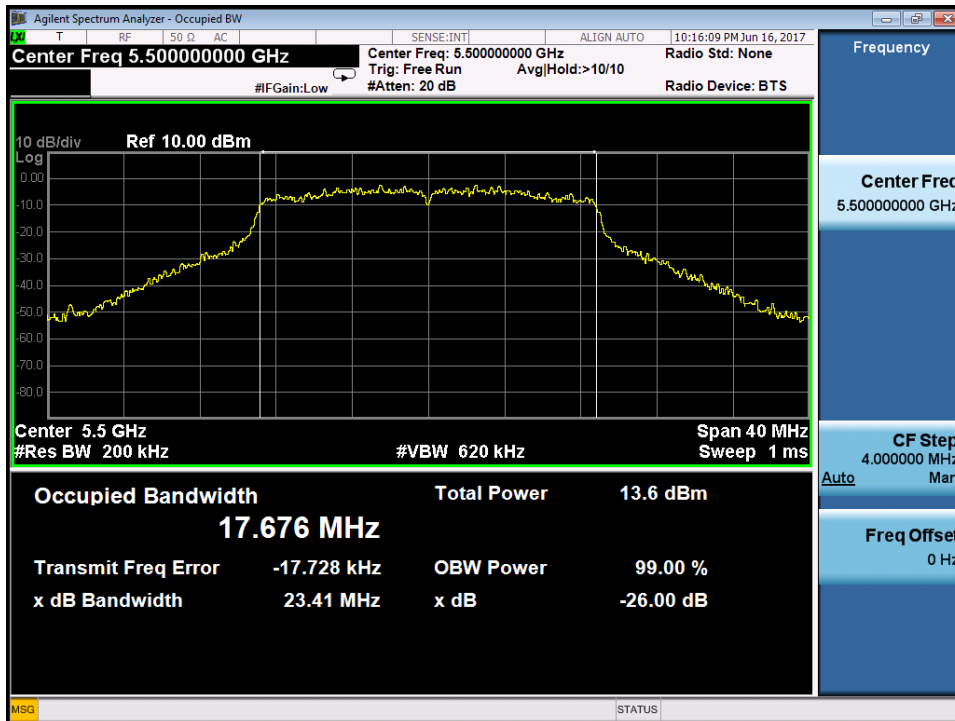
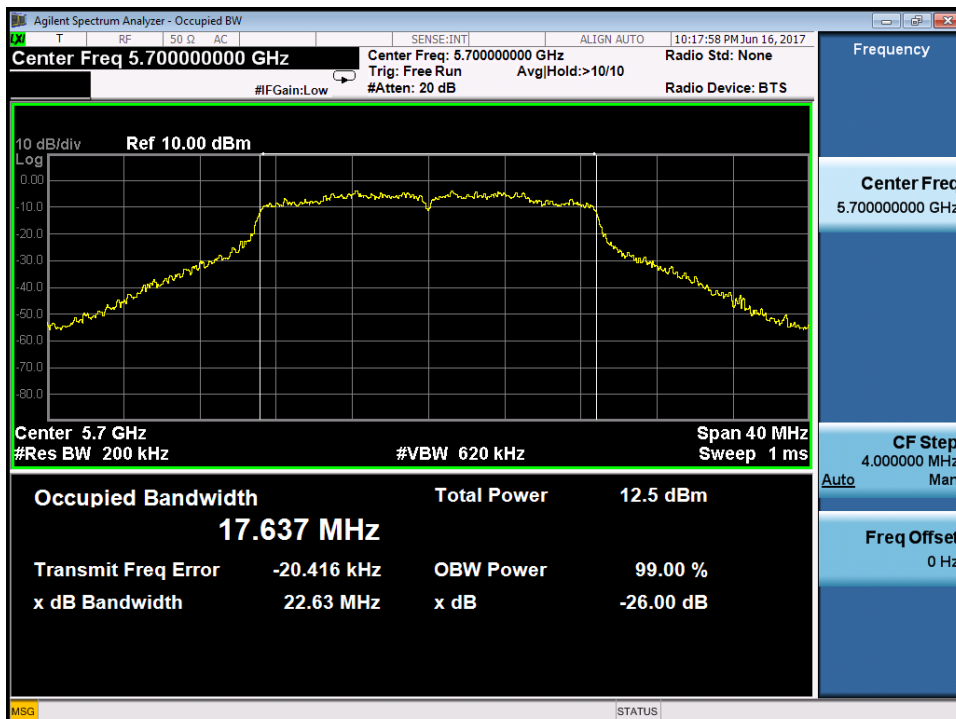
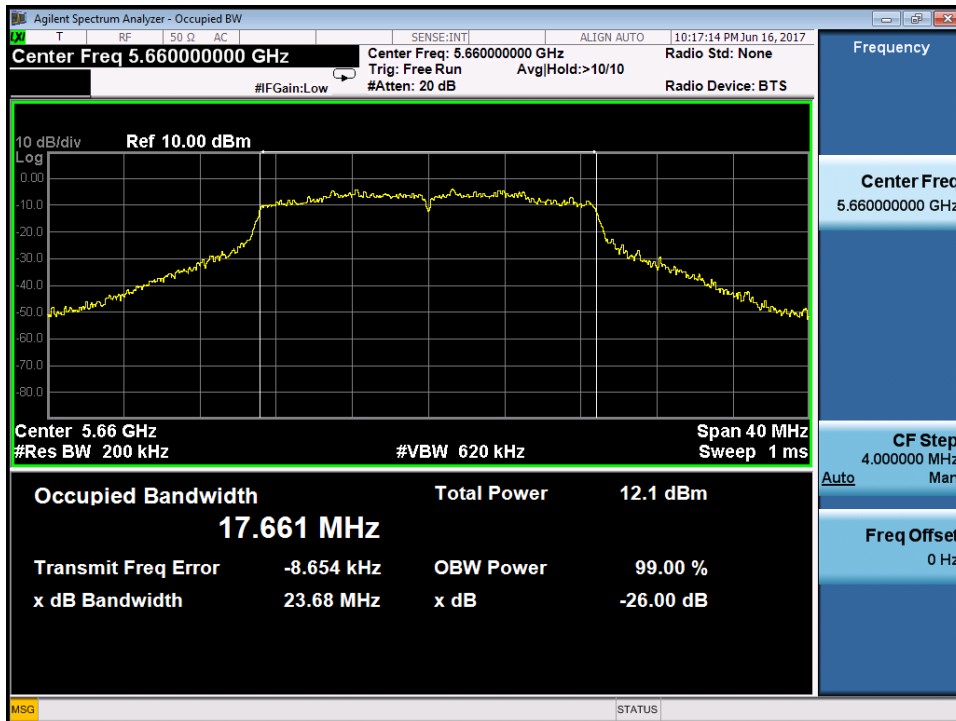
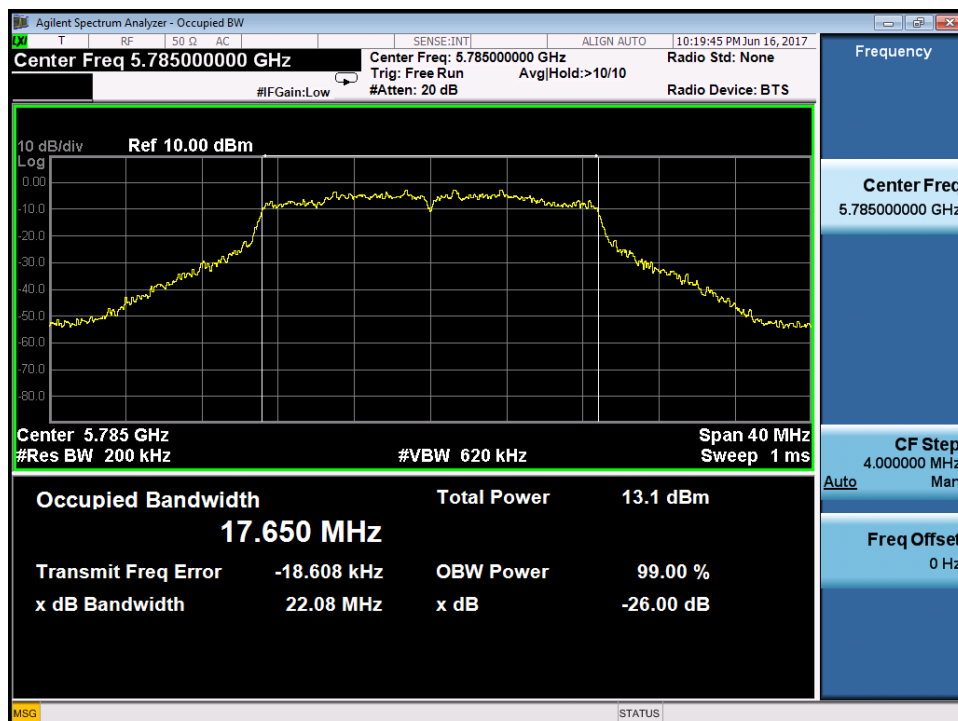
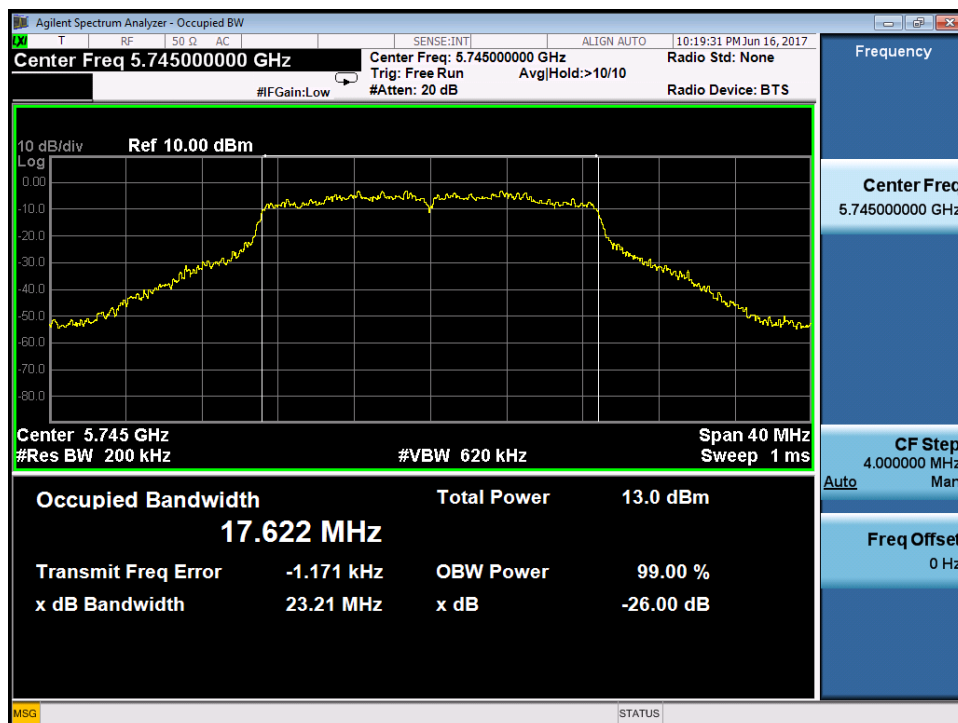
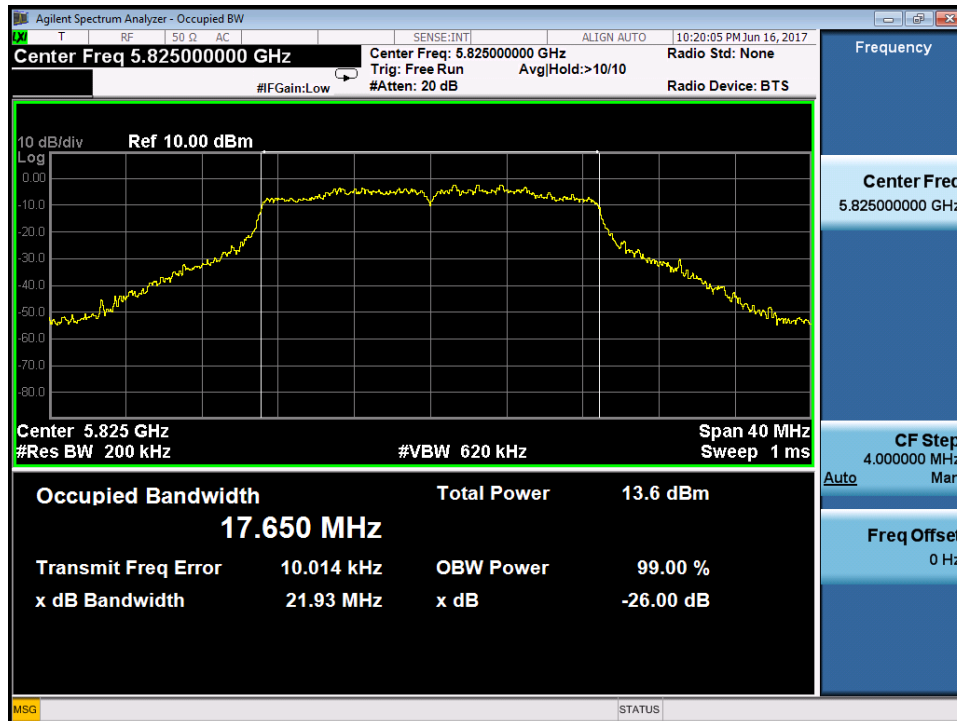








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2. 6dB Bandwidth

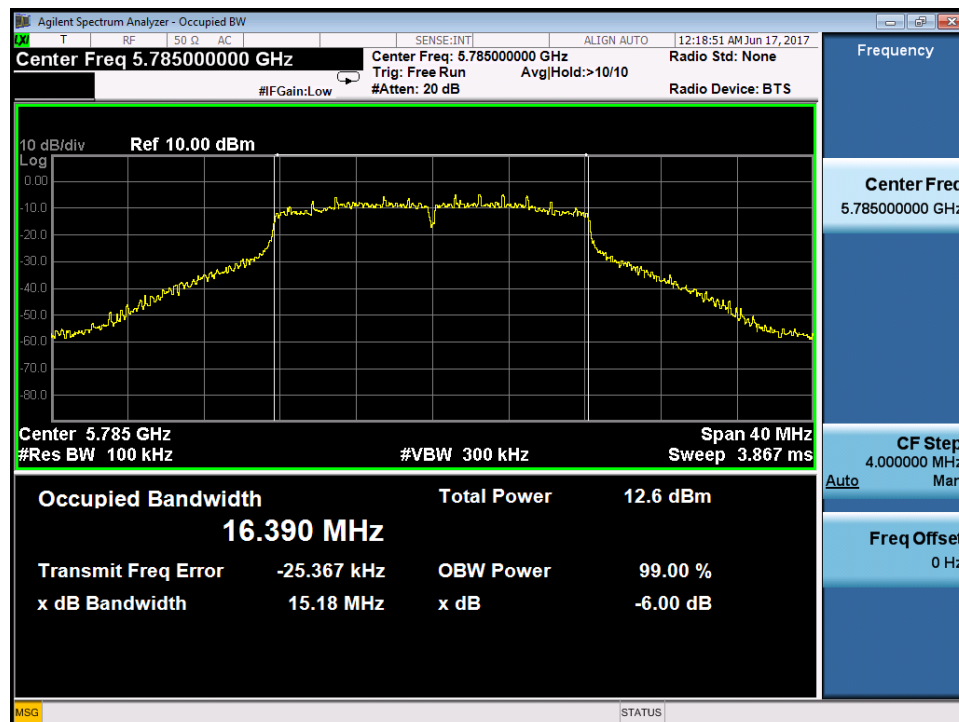
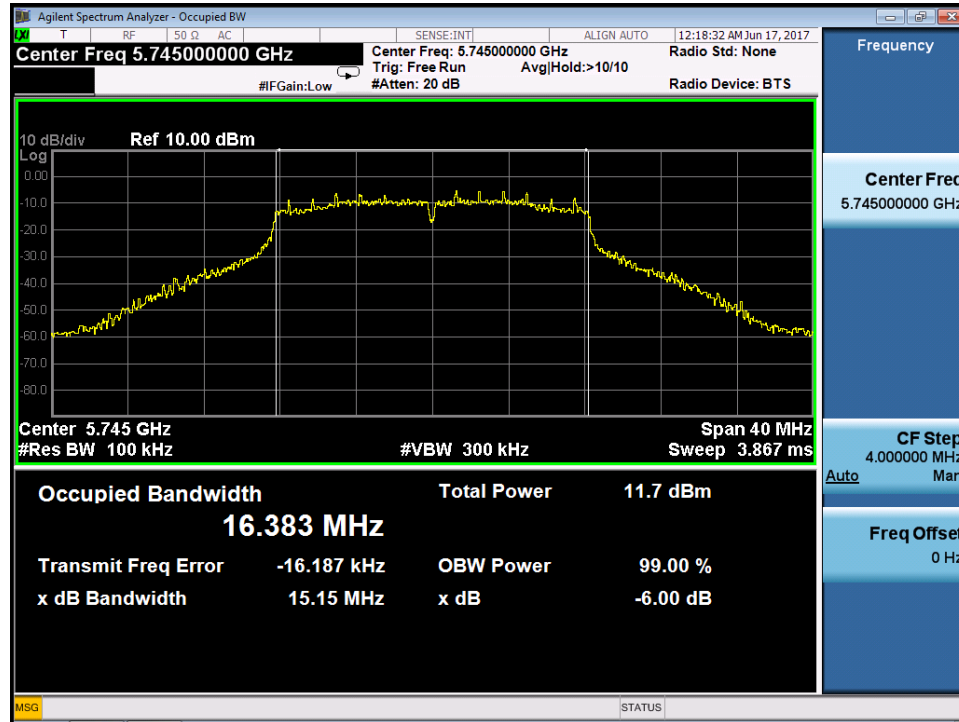
2.1 Test Datas

Channel (mode)	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
149 (802.11a)	5745	15.15	≥500KHz
157 (802.11a)	5785	15.18	≥500KHz
165 (802.11a)	5825	15.14	≥500KHz

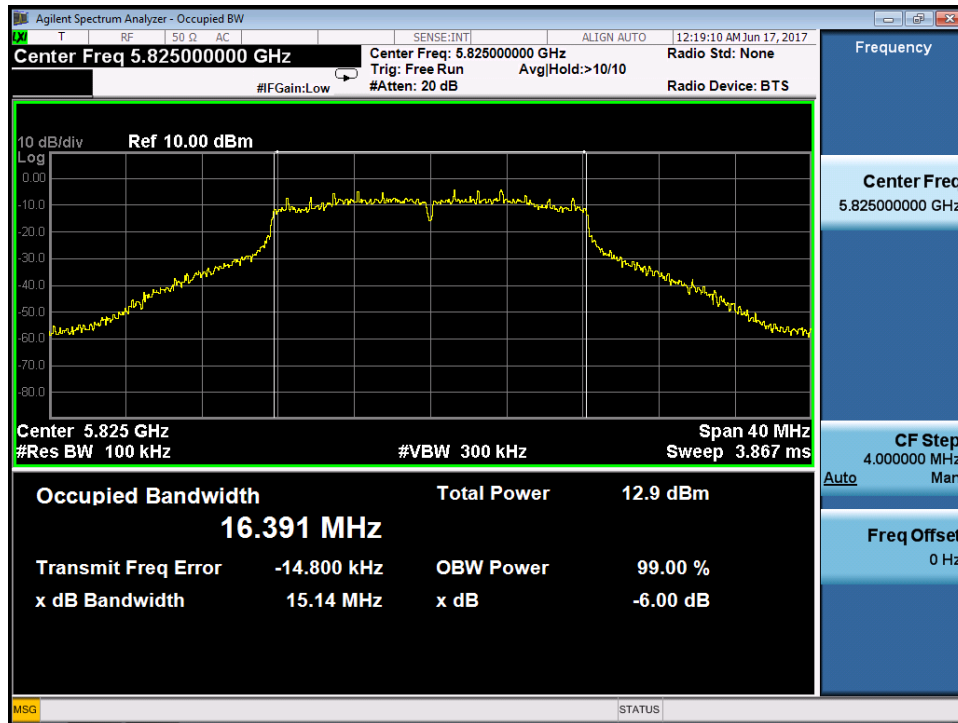
Channel (mode)	Channel Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
149 (802.11n-HT20)	5745	15.14	≥500KHz
157 (802.11n-HT20)	5785	15.16	≥500KHz
165 (802.11n-HT20)	5825	15.17	≥500KHz

2.2 Test Graphs

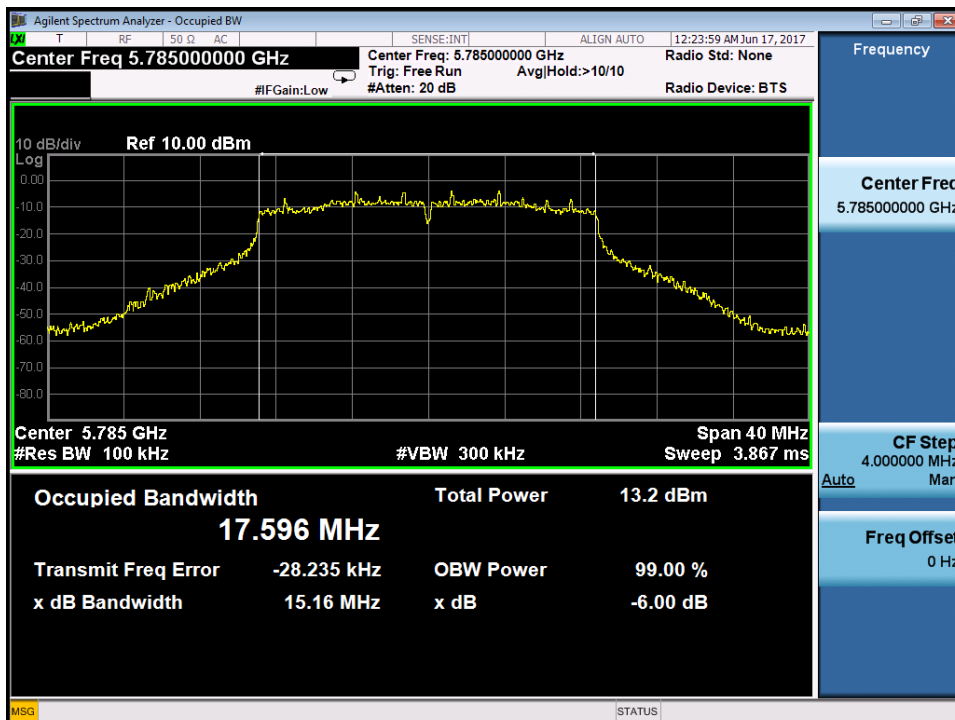
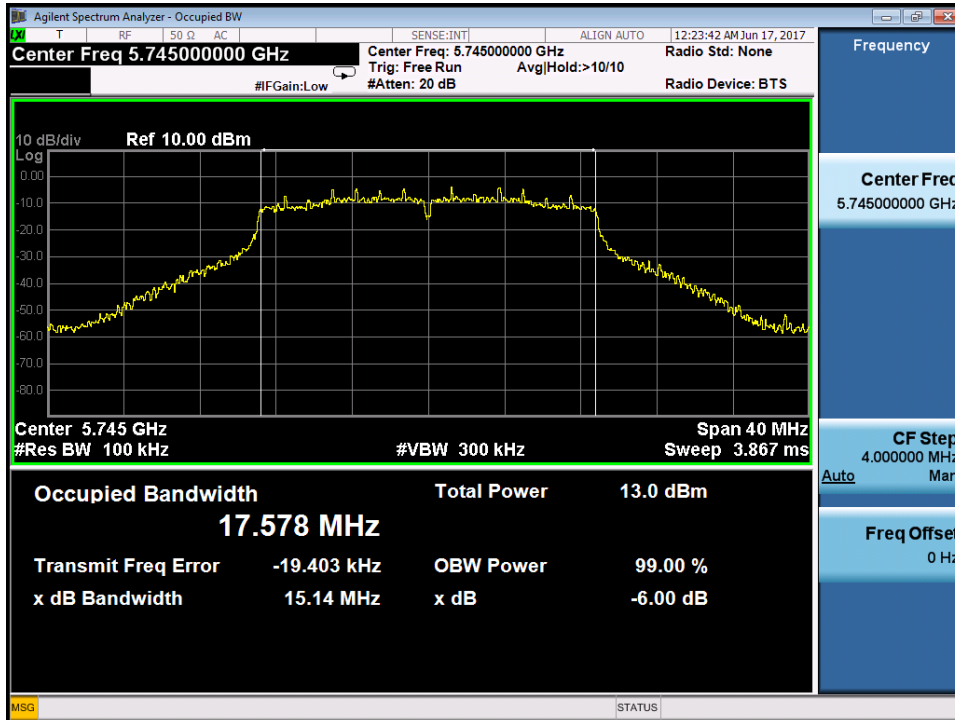
802.11a



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802.11n-HT20



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3. RF output power

3.1 Test datas for FCC limit

Channel (mode)	Channel Frequency (MHz)	RF Output Power		Limit (mW)	Result
		dBm	mW		
36 (802.11a)	5180	11.96	15.70	250	Pass
40 (802.11a)	5200	11.65	14.62	250	Pass
48 (802.11a)	5240	11.58	14.39	250	Pass
52 (802.11a)	5260	11.95	15.67	250	Pass
56 (802.11a)	5280	11.46	14.00	250	Pass
64 (802.11a)	5320	11.93	15.60	250	Pass
100 (802.11a)	5500	11.62	14.52	250	Pass
116 (802.11a)	5580	10.69	11.72	250	Pass
132 (802.11a)	5660	10.69	11.72	250	Pass
140 (802.11a)	5700	9.67	9.27	250	Pass
149 (802.11a)	5745	11.27	13.40	1000	Pass
157 (802.11a)	5785	11.09	12.85	1000	Pass
165 (802.11a)	5825	11.41	13.84	1000	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power		Limit (mW)	Result
		dBm	mW		
36 (802.11n-HT20)	5180	9.16	8.24	250	Pass
40 (802.11n-HT20)	5200	9.28	8.47	250	Pass
48 (802.11n-HT20)	5240	8.32	6.79	250	Pass
52 (802.11n-HT20)	5260	8.80	7.59	250	Pass
56 (802.11n-HT20)	5280	8.10	6.46	250	Pass
64 (802.11n-HT20)	5320	9.26	8.43	250	Pass
100 (802.11n-HT20)	5500	9.41	8.73	250	Pass
116 (802.11n-HT20)	5580	8.64	7.31	250	Pass
132 (802.11n-HT20)	5660	8.94	7.83	250	Pass
140 (802.11n-HT20)	5700	7.40	5.50	250	Pass
149 (802.11n-HT20)	5745	9.28	8.47	1000	Pass
157 (802.11n-HT20)	5785	8.94	7.83	1000	Pass
165 (802.11n-HT20)	5825	9.22	8.36	1000	Pass

3.2 Test datas for IC limit

Channel (mode)	Channel Frequency (MHz)	RF Output Power		e.i.r.p. (mW)	Limit (mW)	Result
		dBm	Antenna Gain (dBi)			
36 (802.11a)	5180	11.96	5.18	51.76	200	Pass
40 (802.11a)	5200	11.65	5.18	48.19	200	Pass
48 (802.11a)	5240	11.58	5.18	47.42	200	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power		Limit (mW)	Result
		dBm	mW		
52 (802.11a)	5260	11.95	15.67	250	Pass
56 (802.11a)	5280	11.46	14.00	250	Pass
64 (802.11a)	5320	11.93	15.60	250	Pass
100 (802.11a)	5500	11.62	14.52	250	Pass
116 (802.11a)	5580	10.69	11.72	250	Pass
132 (802.11a)	5660	10.69	11.72	250	Pass
140 (802.11a)	5700	9.67	9.27	250	Pass
149 (802.11a)	5745	11.27	13.40	1000	Pass
157 (802.11a)	5785	11.09	12.85	1000	Pass
165 (802.11a)	5825	11.41	13.84	1000	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power		e.i.r.p. (mW)	Limit (mW)	Result
		dBm	Antenna Gain (dBi)			
36 (802.11n-HT20)	5180	9.16	5.18	27.16	200	Pass
40 (802.11n-HT20)	5200	9.28	5.18	27.93	200	Pass
48 (802.11n-HT20)	5240	8.32	5.18	22.39	200	Pass

Channel (mode)	Channel Frequency (MHz)	RF Output Power		Limit (mW)	Result
		dBm	mW		
52 (802.11n-HT20)	5260	8.80	7.59	250	Pass
56 (802.11n-HT20)	5280	8.10	6.46	250	Pass
64 (802.11n-HT20)	5320	9.26	8.43	250	Pass
100 (802.11n-HT20)	5500	9.41	8.73	250	Pass
116 (802.11n-HT20)	5580	8.64	7.31	250	Pass
132 (802.11n-HT20)	5660	8.94	7.83	250	Pass
140 (802.11n-HT20)	5700	7.40	5.50	250	Pass
149 (802.11n-HT20)	5745	9.28	8.47	1000	Pass
157 (802.11n-HT20)	5785	8.94	7.83	1000	Pass
165 (802.11n-HT20)	5825	9.22	8.36	1000	Pass

4. Power Spectral Density

4.1 Test Datas for FCC Limits

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/MHz)	Result
		dBm/MHz		
36 (802.11a)	5180	-4.190	11	Pass
40 (802.11a)	5200	-5.344	11	Pass
48 (802.11a)	5240	-4.596	11	Pass
52 (802.11a)	5260	-4.723	11	Pass
56 (802.11a)	5280	-4.652	11	Pass
64 (802.11a)	5320	-4.047	11	Pass
100 (802.11a)	5500	-4.298	11	Pass
116 (802.11a)	5580	-5.394	11	Pass
132 (802.11a)	5660	-6.424	11	Pass
140 (802.11a)	5700	-5.908	11	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11a)	5745	-8.282	30	Pass
157 (802.11a)	5785	-8.331	30	Pass
165 (802.11a)	5825	-7.499	30	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/MHz)	Result
		dBm/MHz		
36 (802.11n-HT20)	5180	-5.608	11	Pass
40 (802.11n-HT20)	5200	-5.516	11	Pass
48 (802.11n-HT20)	5240	-5.146	11	Pass
52 (802.11n-HT20)	5260	-4.940	11	Pass
56 (802.11n-HT20)	5280	-5.304	11	Pass
64 (802.11n-HT20)	5320	-4.393	11	Pass
100 (802.11n-HT20)	5500	-3.659	11	Pass
116 (802.11n-HT20)	5580	-4.631	11	Pass
132 (802.11n-HT20)	5660	-5.813	11	Pass
140 (802.11n-HT20)	5700	-5.820	11	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11n-HT20)	5745	-7.943	30	Pass
157 (802.11n-HT20)	5785	-7.734	30	Pass
165 (802.11n-HT20)	5825	-6.905	30	Pass

4.2 Test Datas for IC Limits

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density		e.i.r.p. PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		dBm/MHz	Antenna Gain (dBi)			
36 (802.11a)	5180	-4.190	5.18	1.26	10	Pass
40 (802.11a)	5200	-5.344	5.18	0.96	10	Pass
48 (802.11a)	5240	-4.596	5.18	1.14	10	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/MHz)	Result
		dBm/MHz		
52 (802.11a)	5260	-4.723	11	Pass
56 (802.11a)	5280	-4.652	11	Pass
64 (802.11a)	5320	-4.047	11	Pass
100 (802.11a)	5500	-4.298	11	Pass
116 (802.11a)	5580	-5.394	11	Pass
132 (802.11a)	5660	-6.424	11	Pass
140 (802.11a)	5700	-5.908	11	Pass

Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11a)	5745	-8.282	30	Pass
157 (802.11a)	5785	-8.331	30	Pass
165 (802.11a)	5825	-7.499	30	Pass

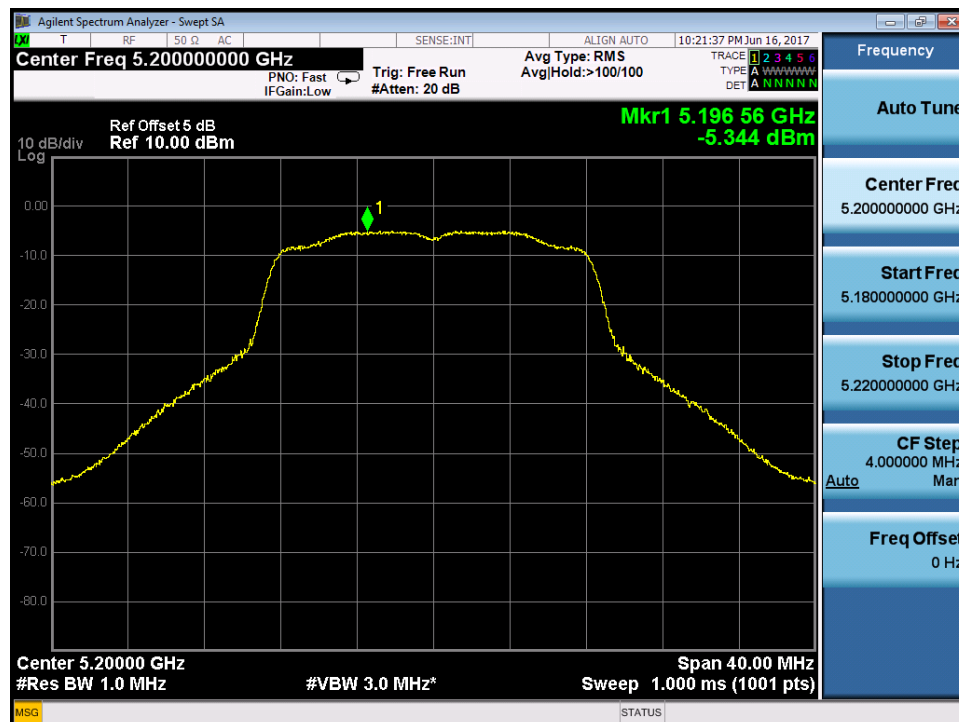
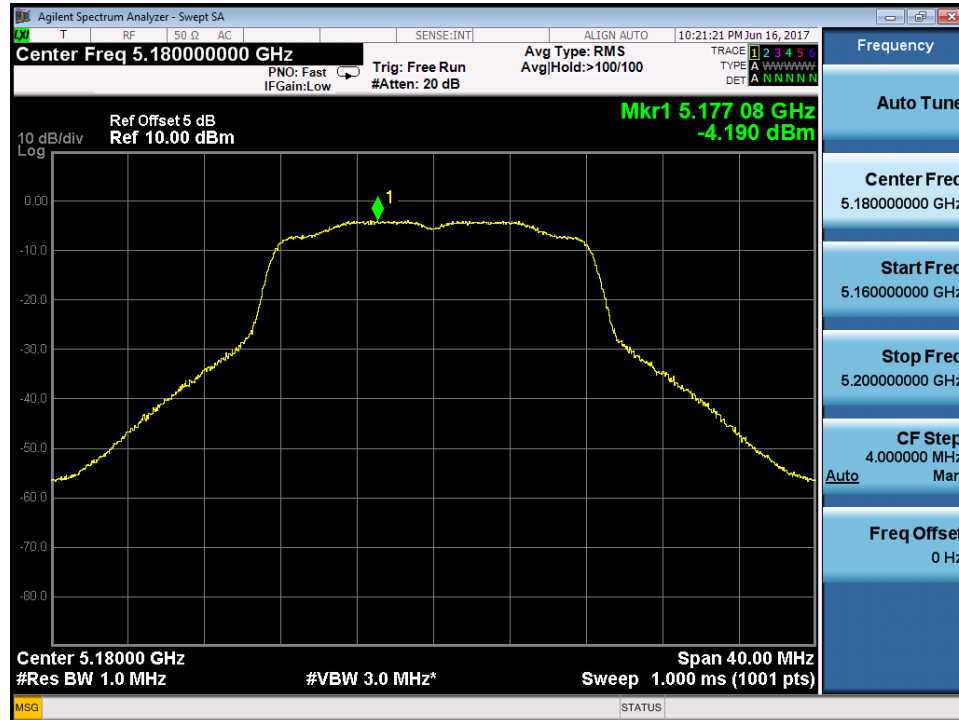
Channel (mode)	Channel Frequency (MHz)	Power Spectral Density		e.i.r.p. PSD (dBm/MHz)	Limit (dBm/MHz)	Result
		dBm/MHz	Antenna Gain (dBi)			
36 (802.11n-HT20)	5180	-5.608	5.18	0.91	10	Pass
40 (802.11n-HT20)	5200	-5.516	5.18	0.93	10	Pass
48 (802.11n-HT20)	5240	-5.146	5.18	1.01	10	Pass

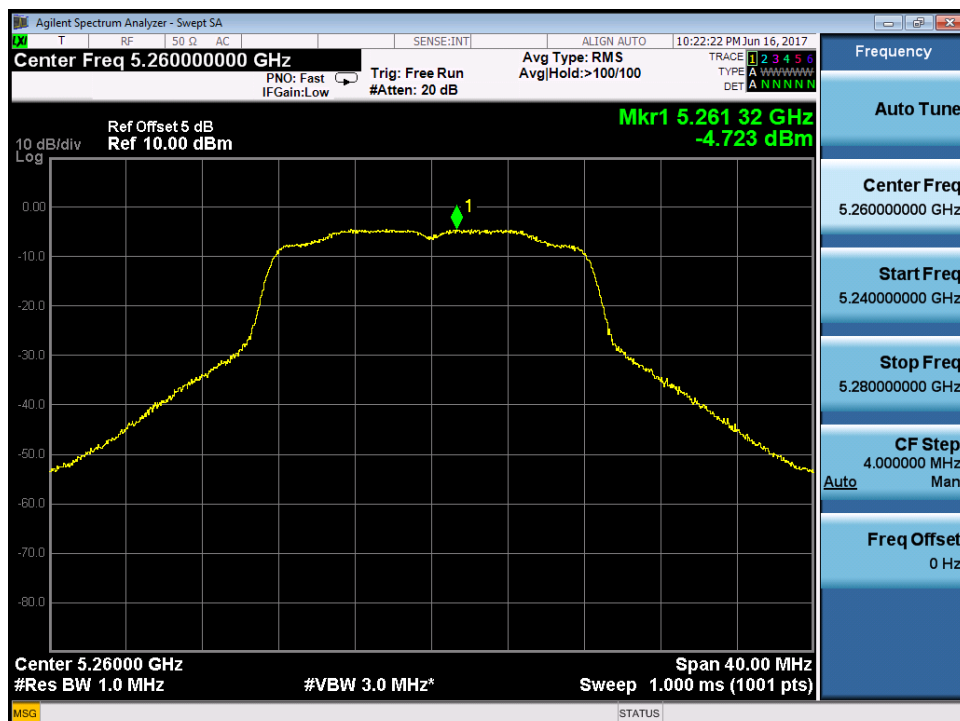
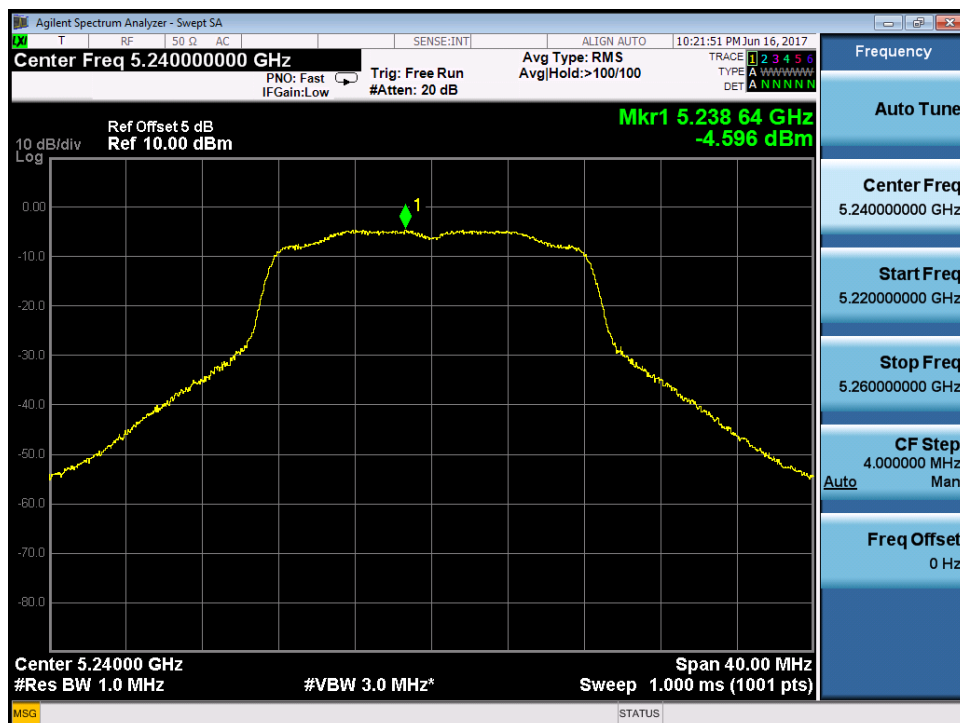
Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/MHz)	Result
		dBm/MHz		
52 (802.11n-HT20)	5260	-4.940	11	Pass
56 (802.11n-HT20)	5280	-5.304	11	Pass
64 (802.11n-HT20)	5320	-4.393	11	Pass
100 (802.11n-HT20)	5500	-3.659	11	Pass
116 (802.11n-HT20)	5580	-4.631	11	Pass
132 (802.11n-HT20)	5660	-5.813	11	Pass
140 (802.11n-HT20)	5700	-5.820	11	Pass

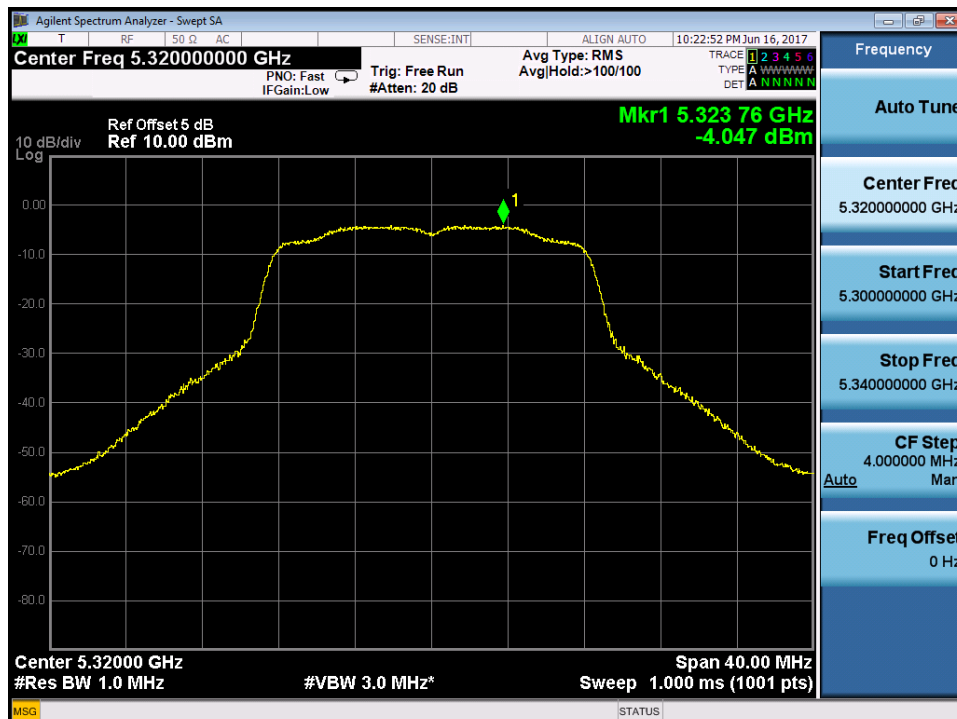
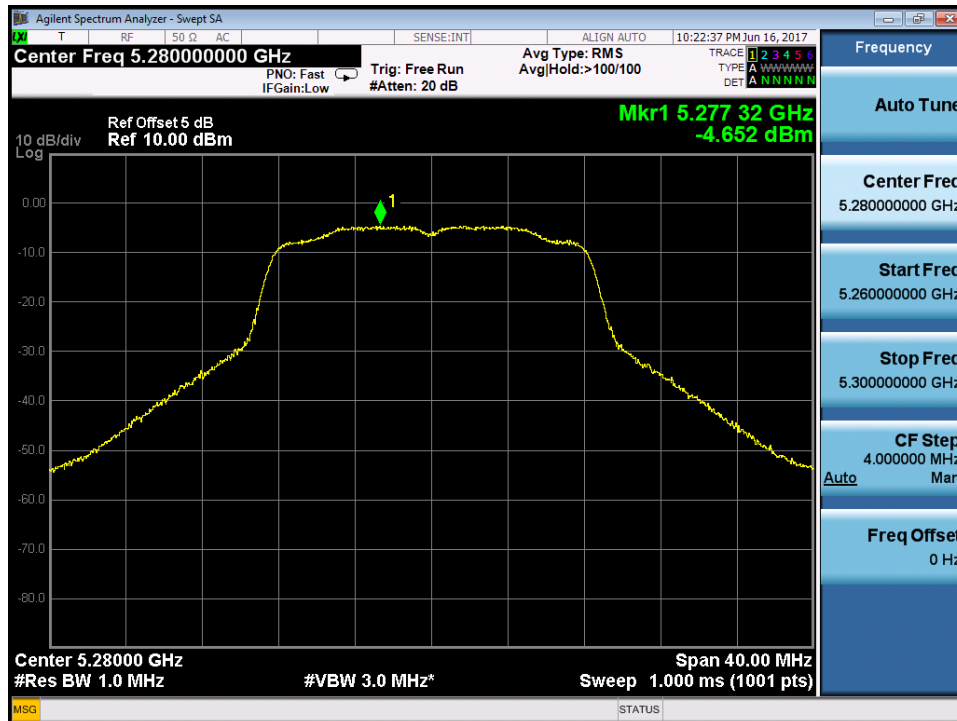
Channel (mode)	Channel Frequency (MHz)	Power Spectral Density	Limit (dBm/500KHz)	Result
		dBm/500KHz		
149 (802.11n-HT20)	5745	-7.943	30	Pass
157 (802.11n-HT20)	5785	-7.734	30	Pass
165 (802.11n-HT20)	5825	-6.905	30	Pass

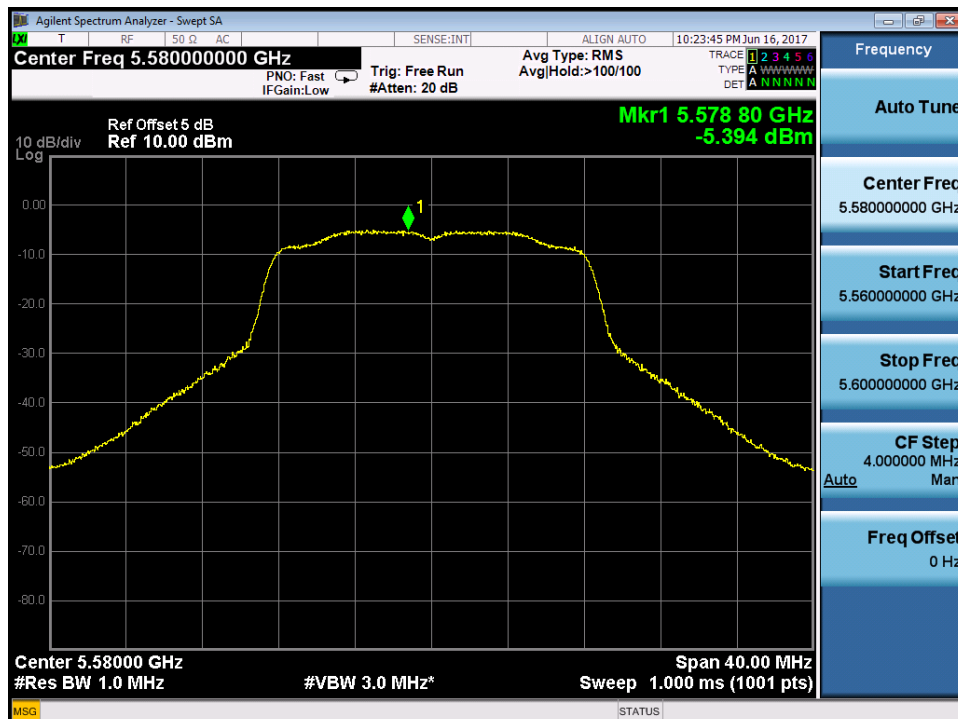
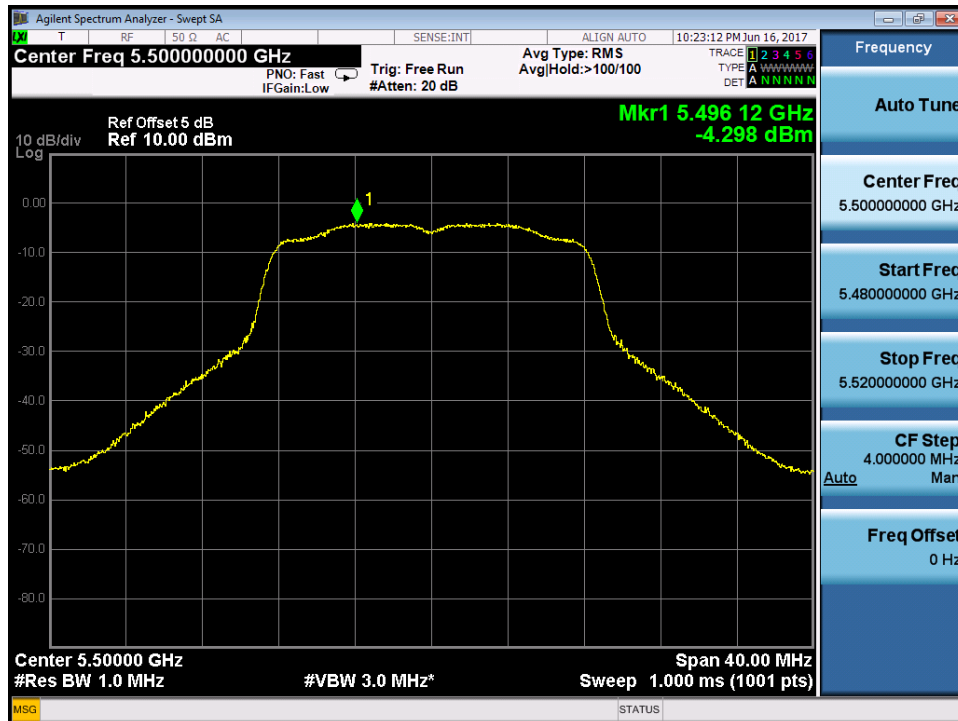
4.3 Test Graphs

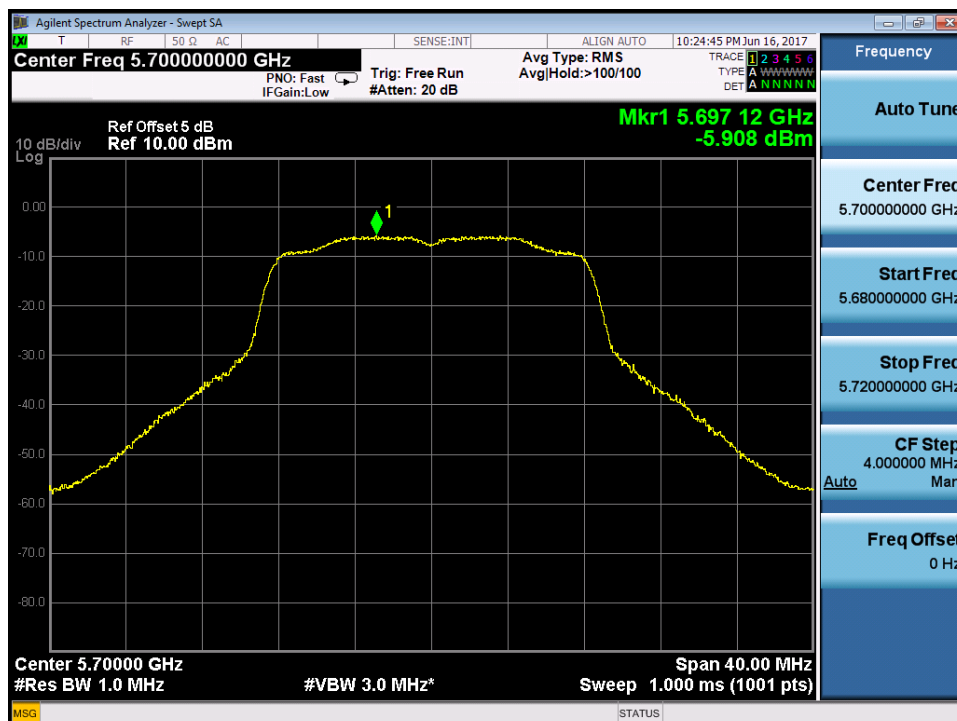
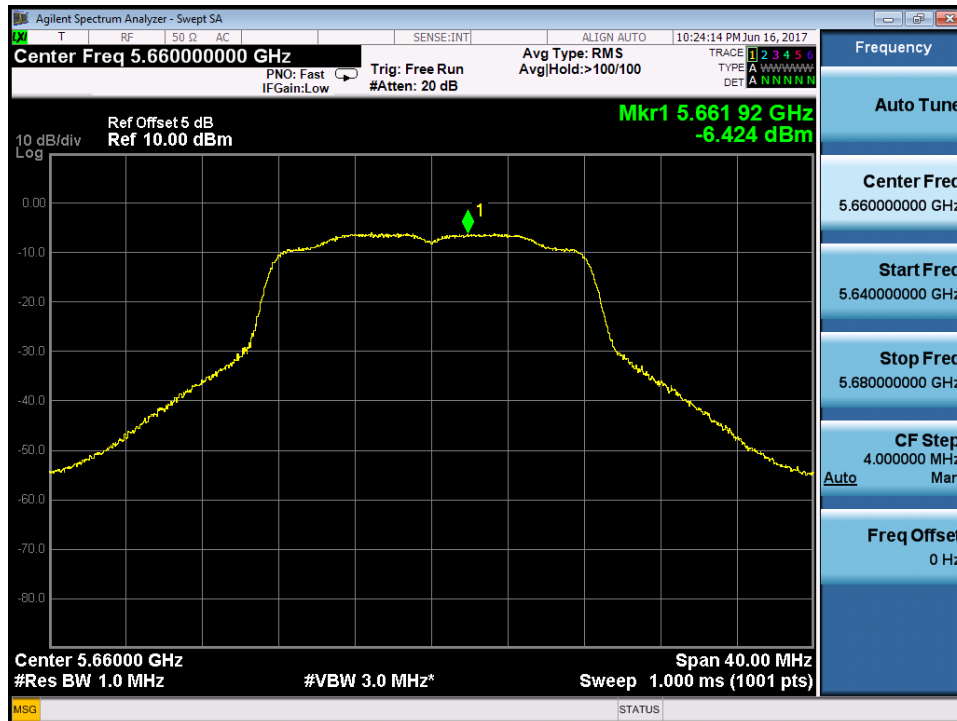
802.11a

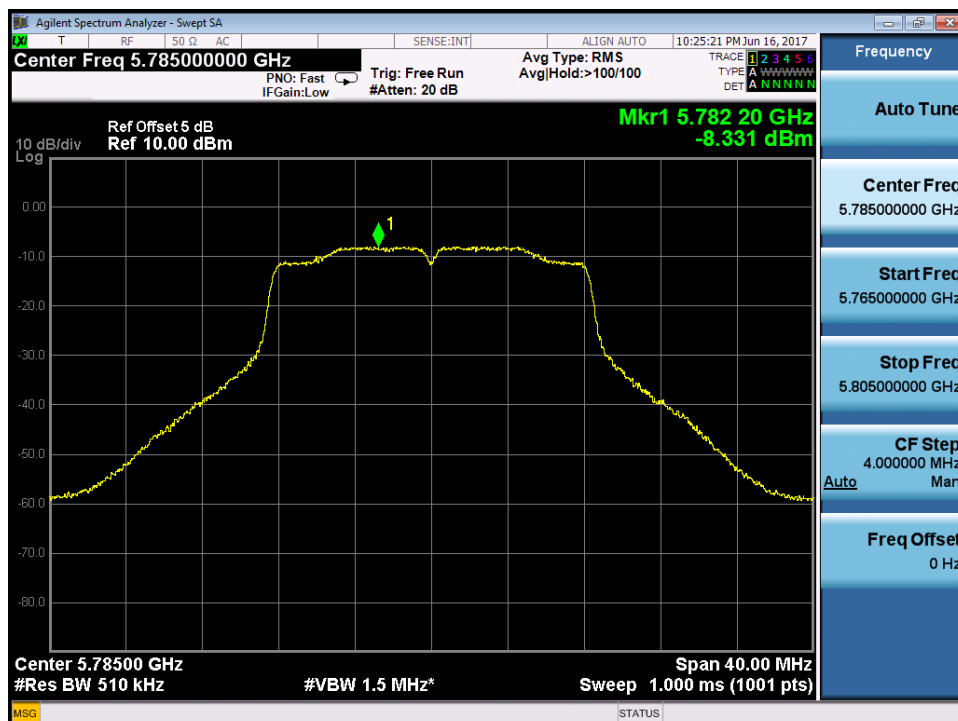
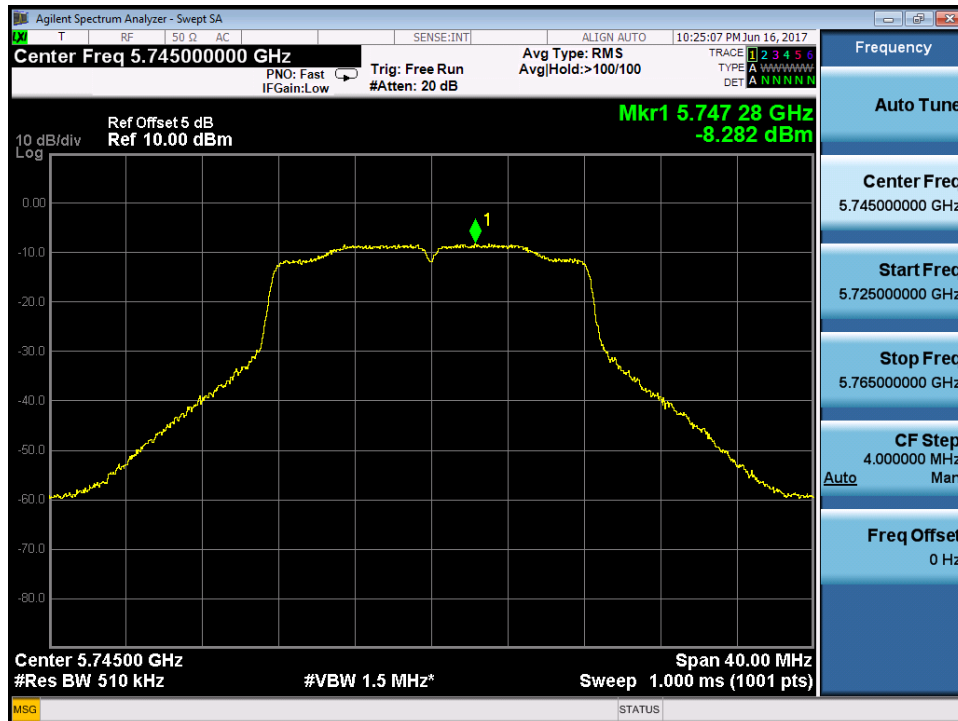




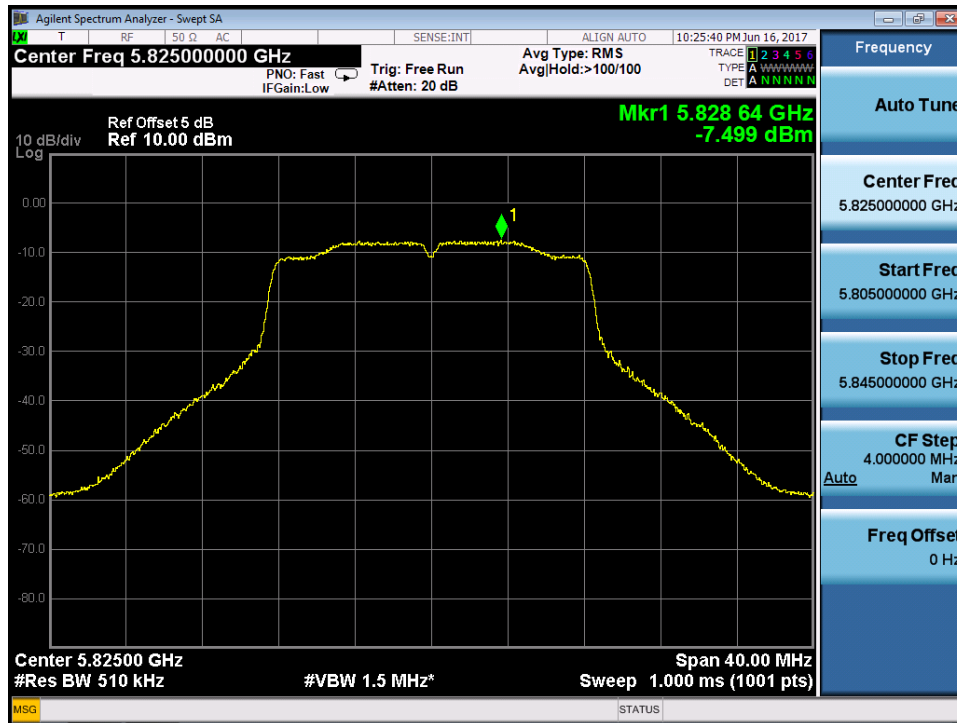






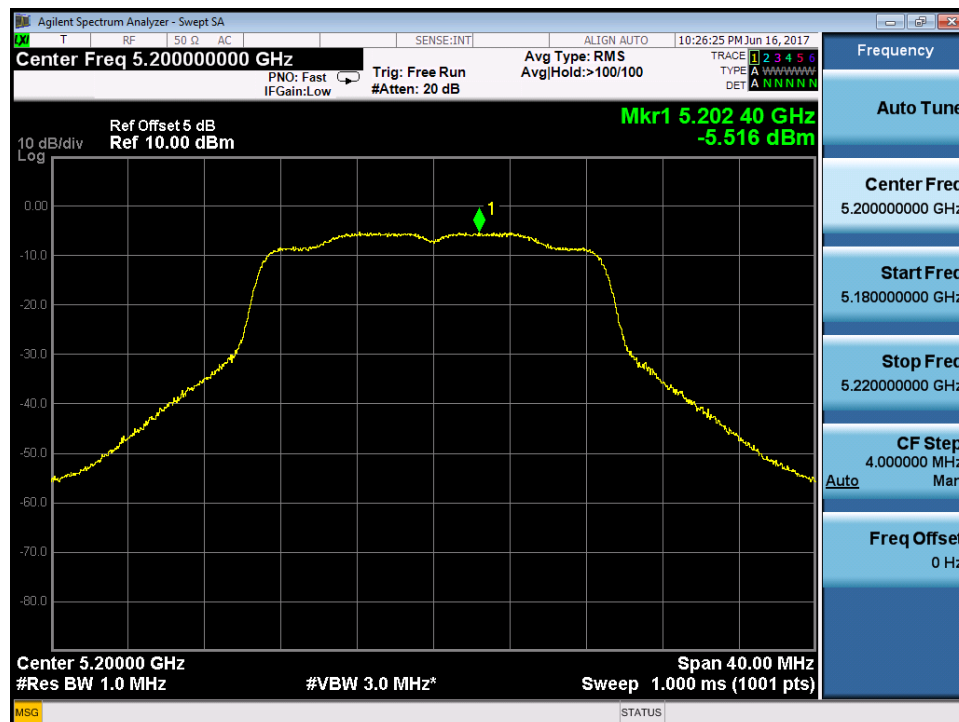
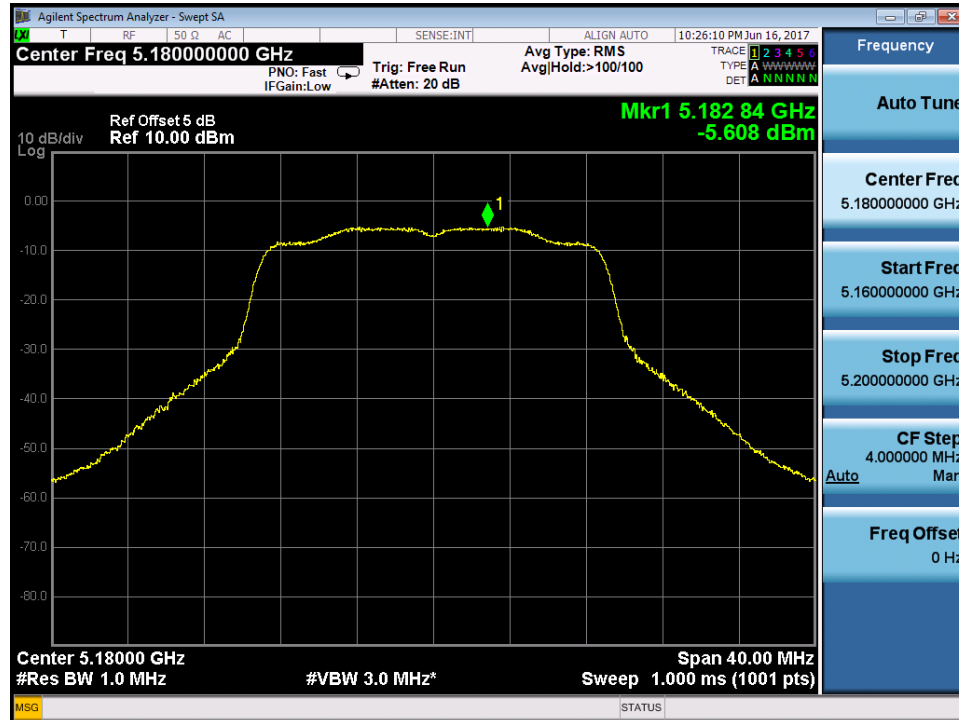


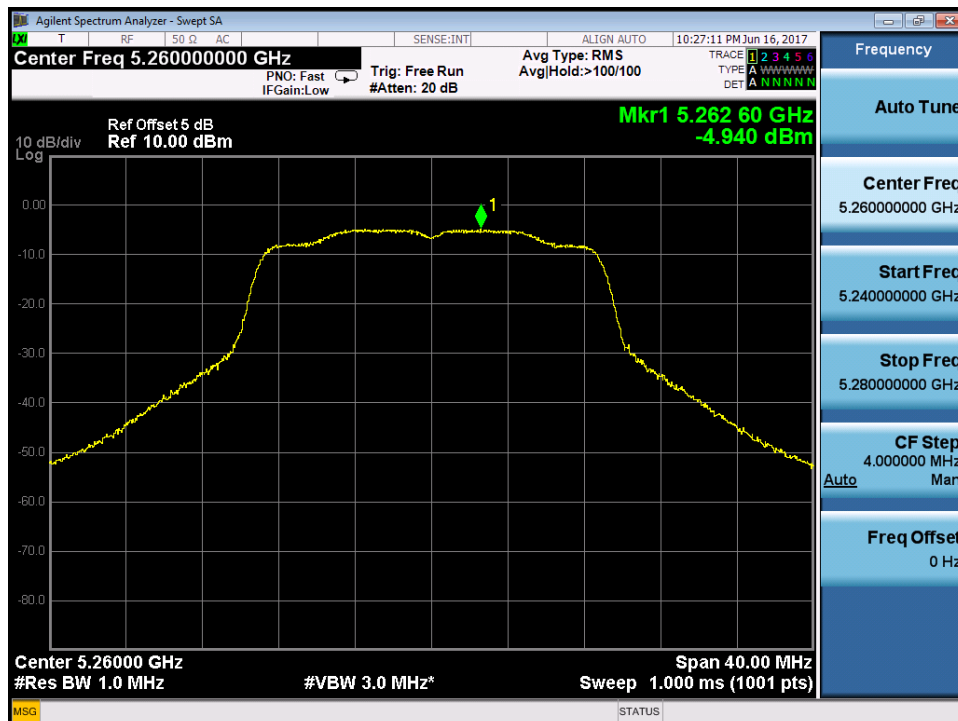
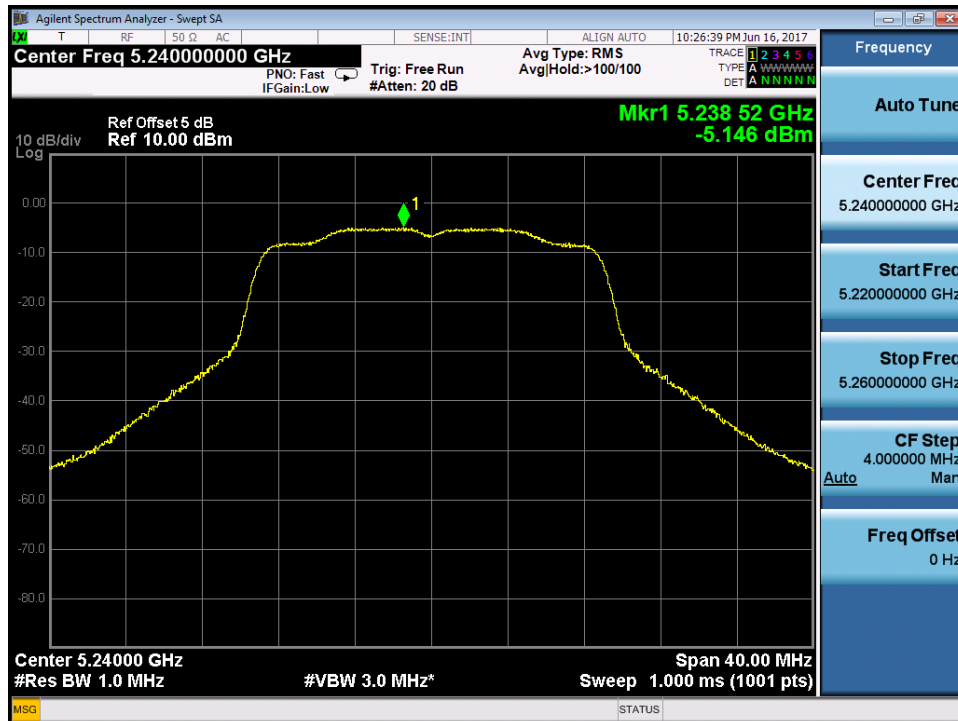
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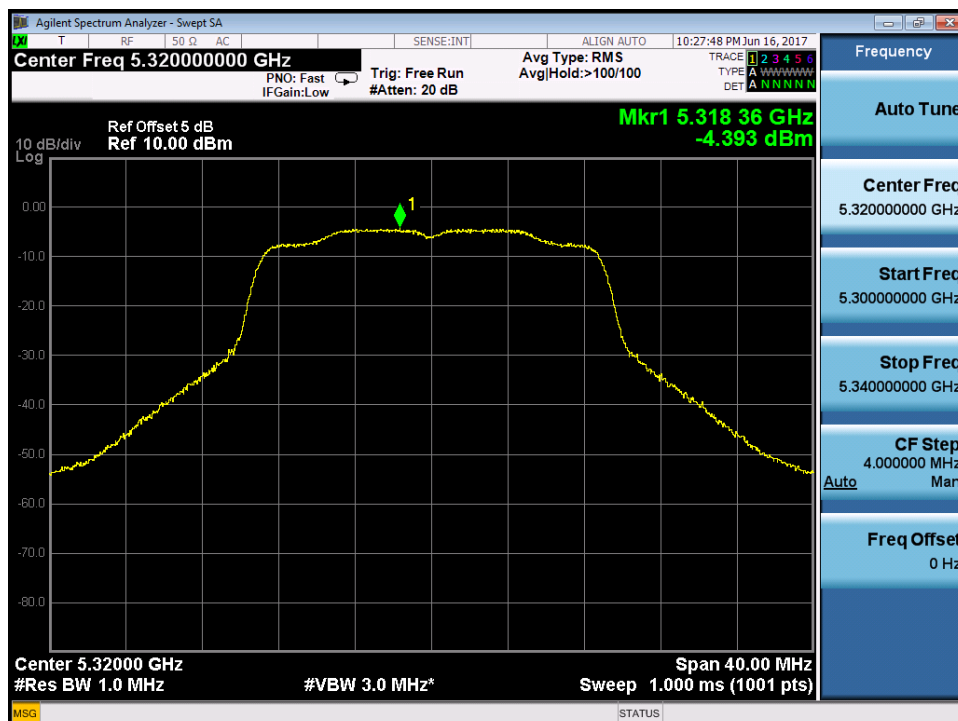
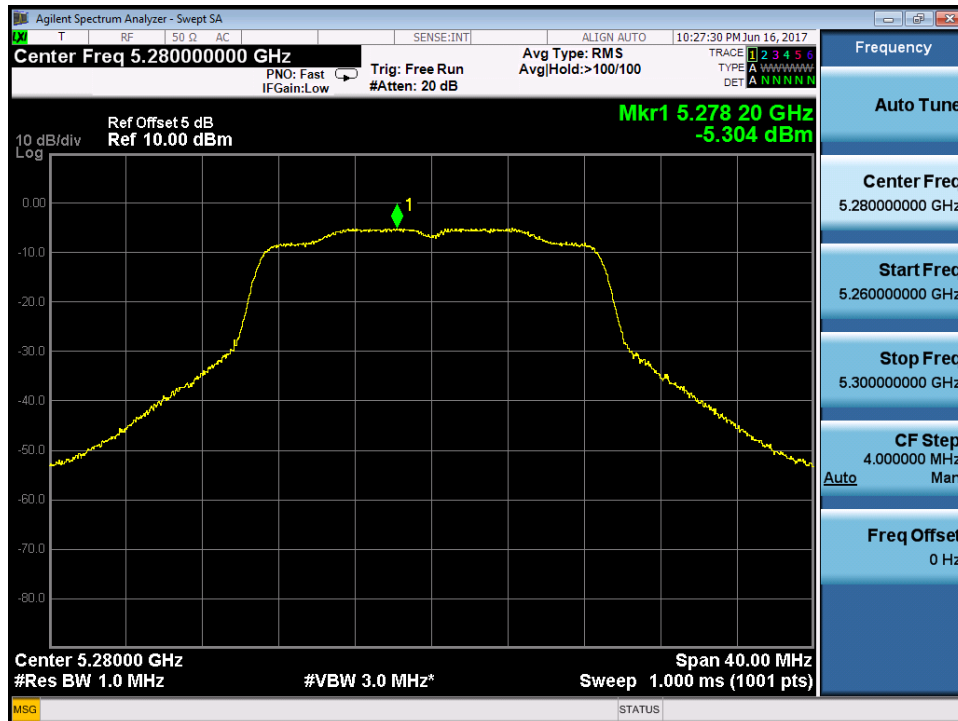


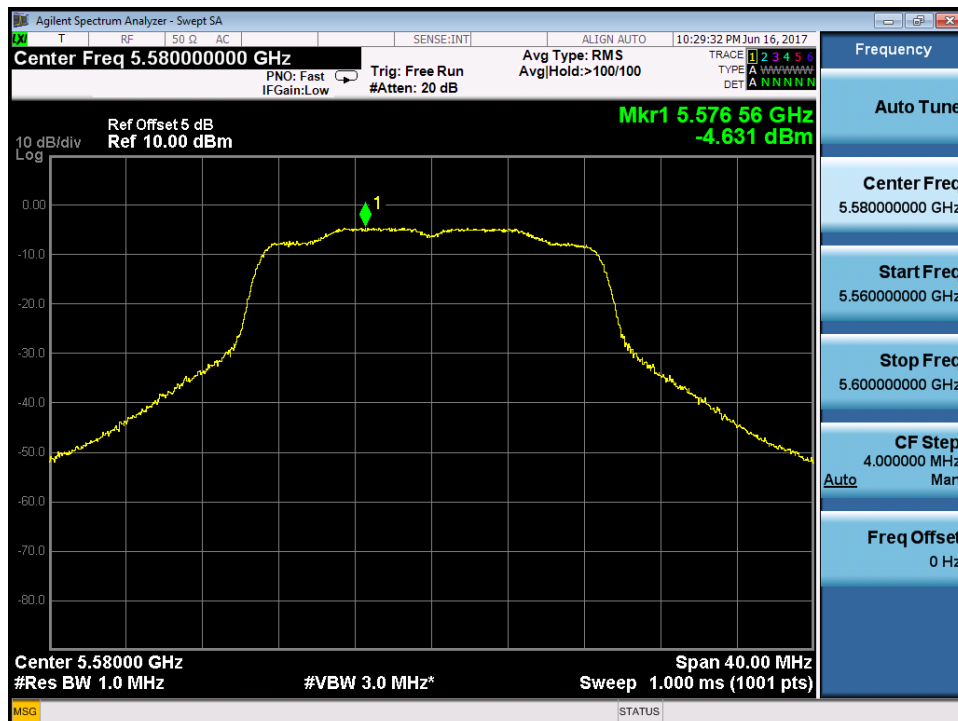
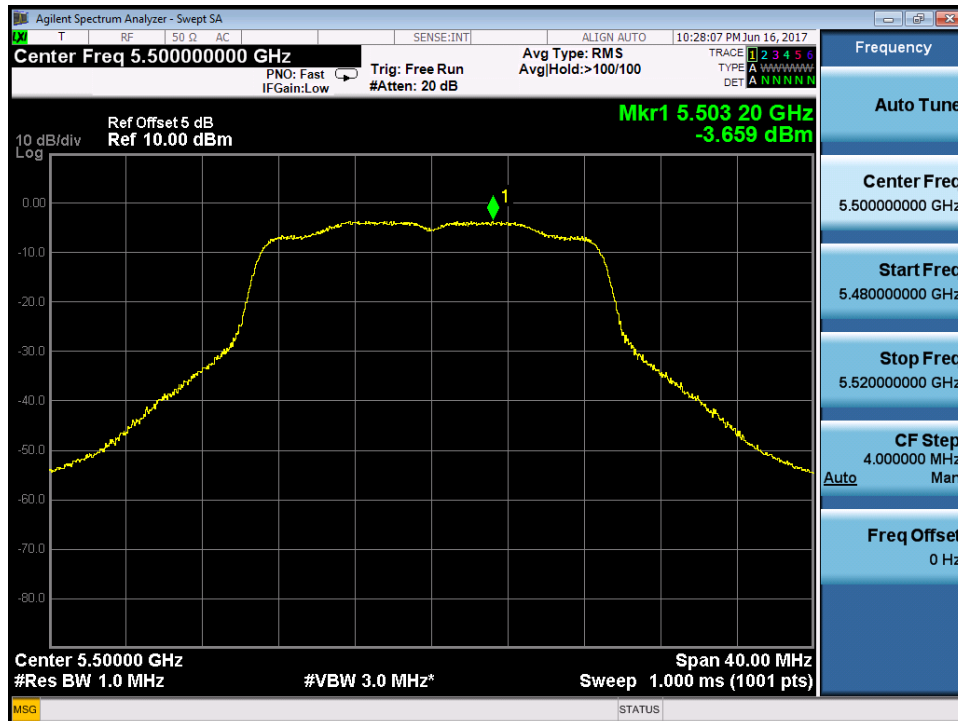
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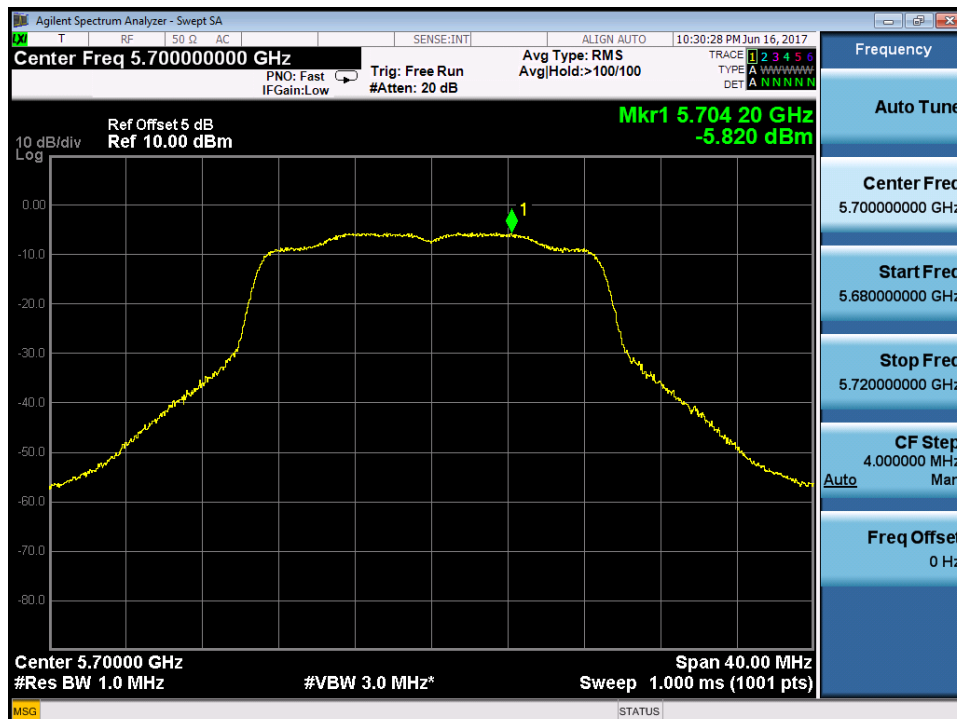
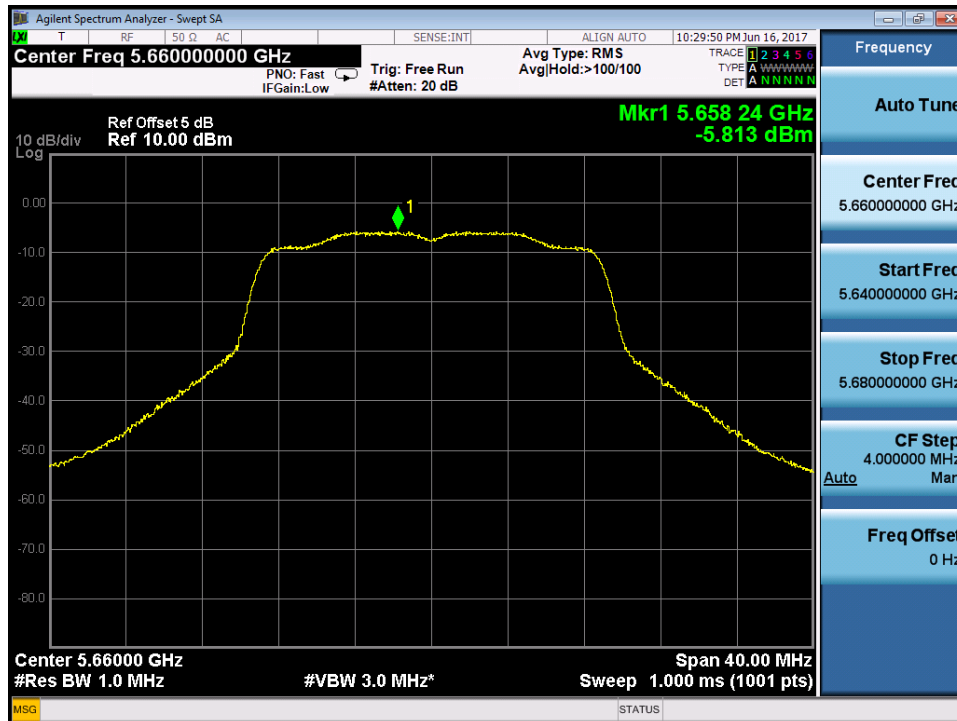
802.11n-HT20

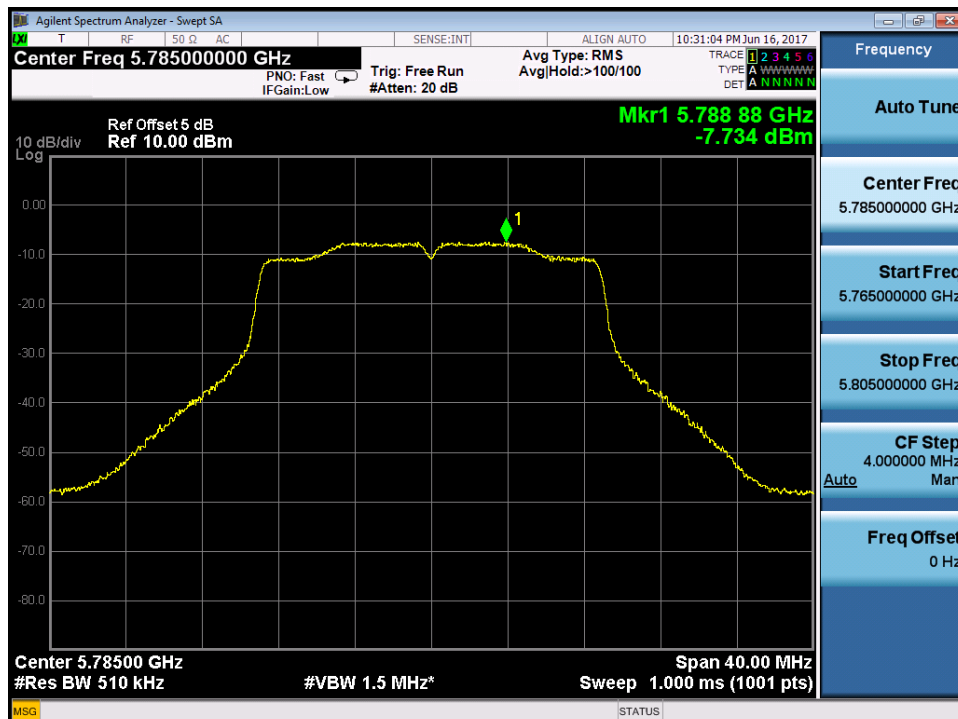
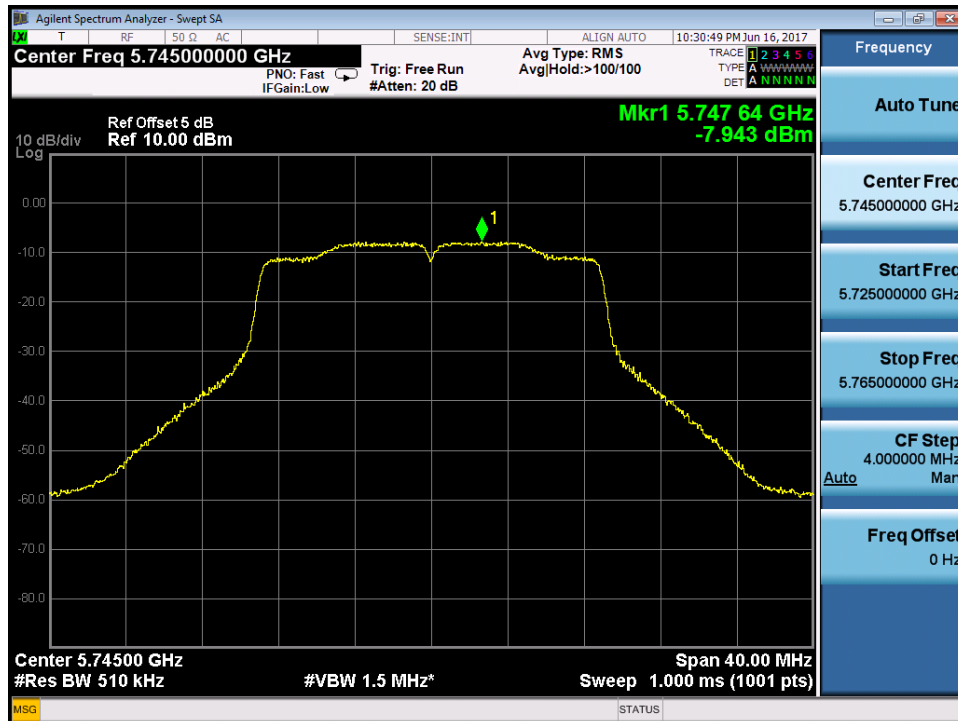




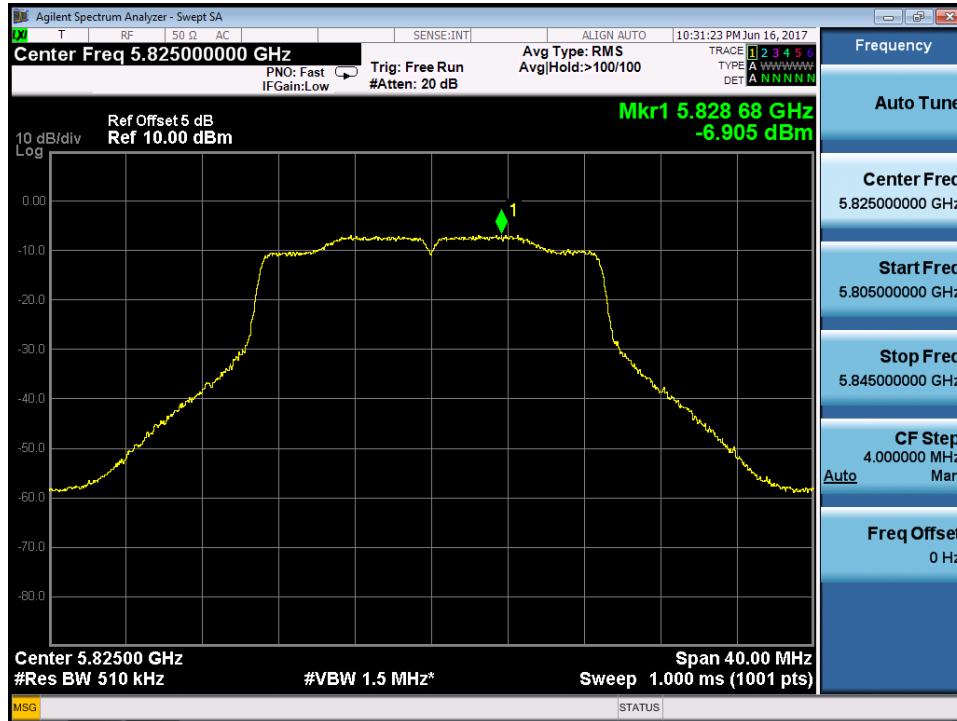








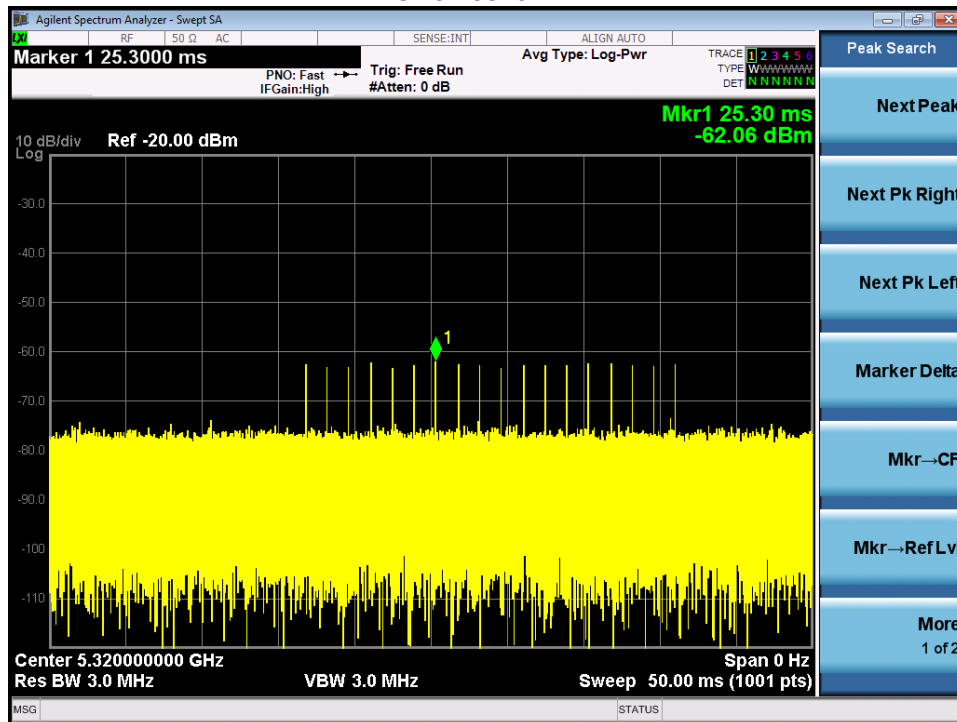
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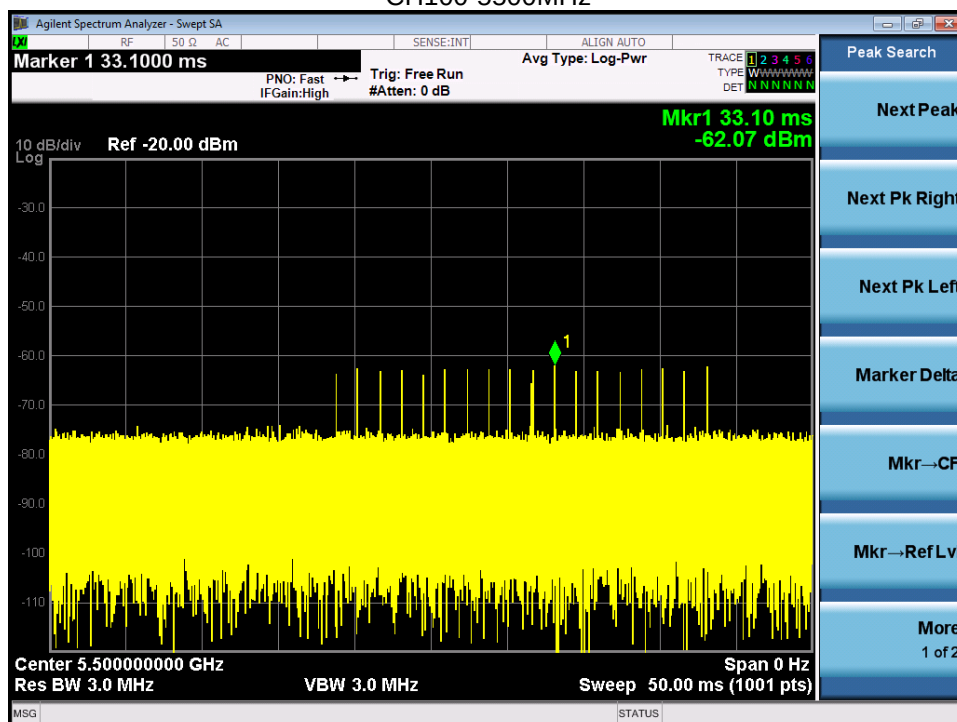
5. Dynamic Frequency Selection (DFS)

5.1 Radar Waveform calibration

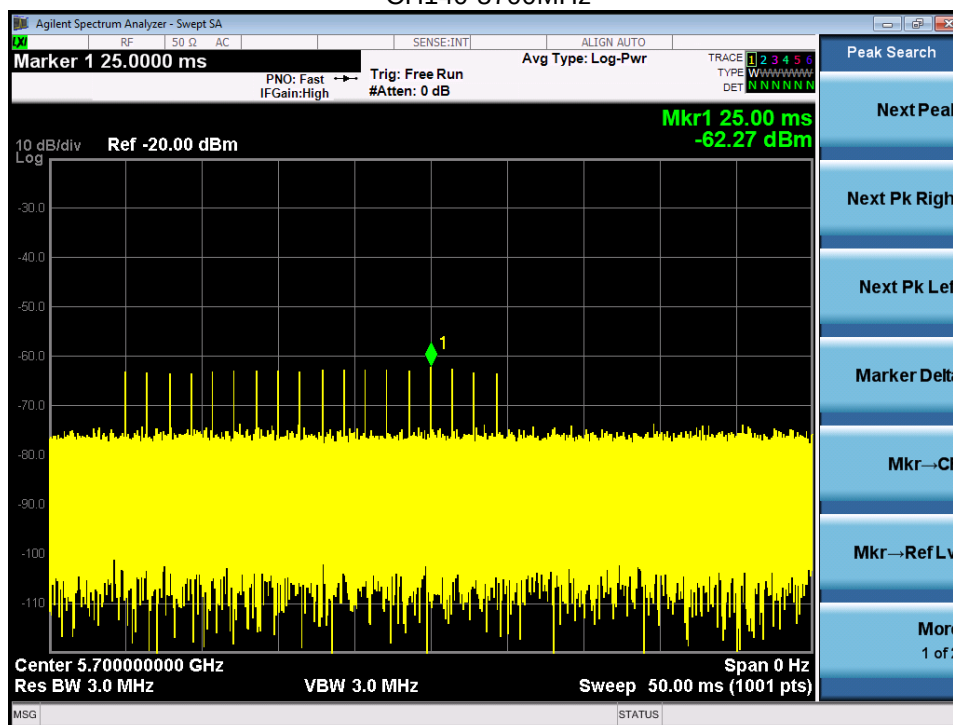
CH64-5320MHz



CH100-5500MHz

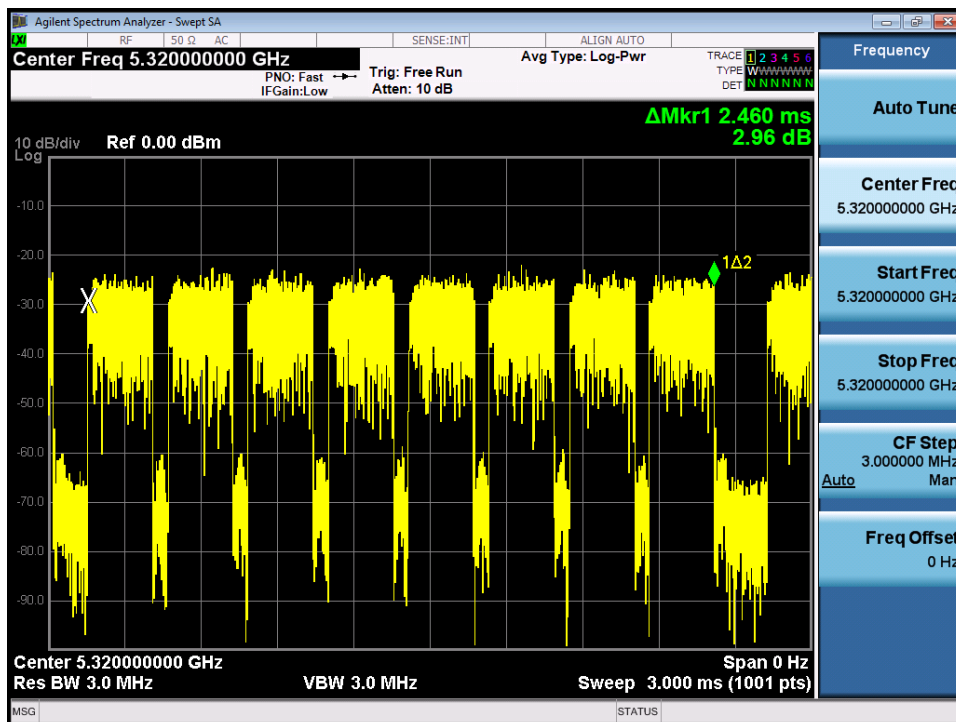


CH140-5700MHz

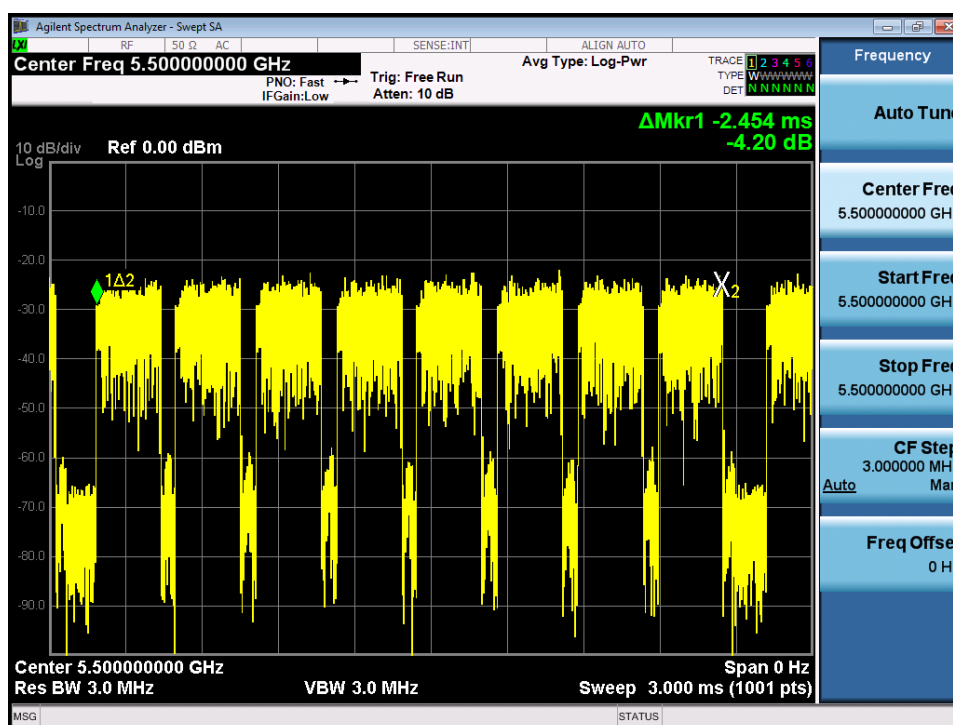
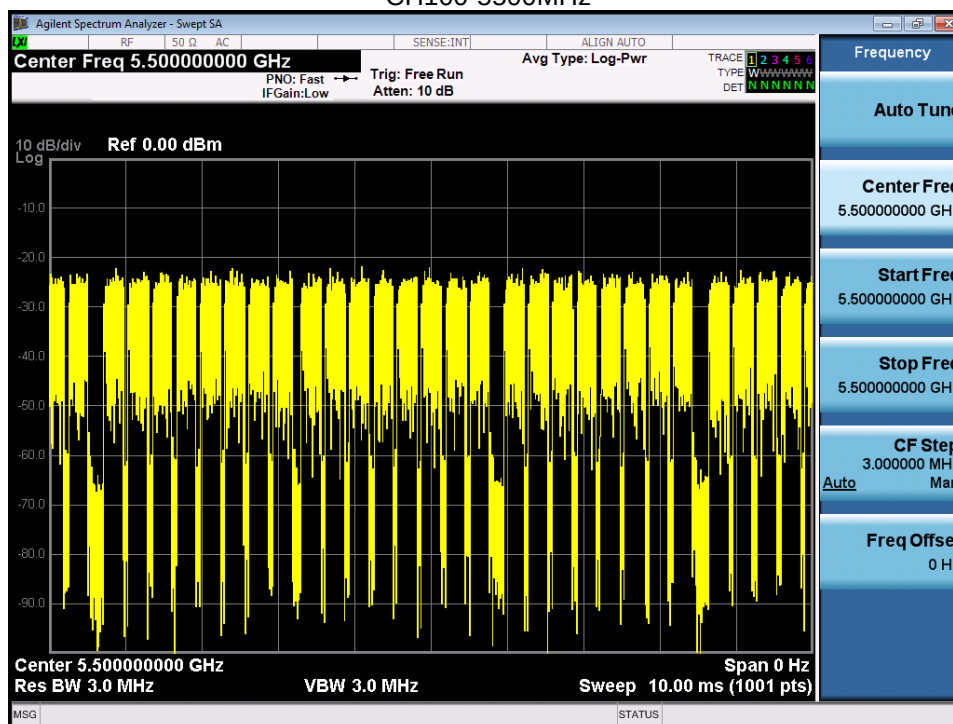


5.2 Channel Loading

CH64-5320MHz



CH100-5500MHz



CH140-5700MHz



5.3 Test Datas

Channel Frequency	Minimum channel loading	Items	Measured	Limit	Result
CH64-5320MHz	>17%	Channel Move Time	4.007s	10s	Pass
		Channel Closing Transmission Time	<200ms+<60ms	200ms+aggregate of 60ms over remaining 10s period	Pass
		Non-Occupancy Period	>1800s	30 min.	Pass
CH100-5500MHz	>17%	Channel Move Time	4.007s	10s	Pass
		Channel Closing Transmission Time	<200ms+<60ms	200ms+aggregate of 60ms over remaining 10s period	Pass
		Non-Occupancy Period	>1800s	30 min.	Pass
CH140-5700MHz	>17%	Channel Move Time	0.679	10s	Pass
		Channel Closing Transmission Time	<200ms+<60ms	200ms+aggregate of 60ms over remaining 10s period	Pass
		Non-Occupancy Period	>1800s	30 min.	Pass