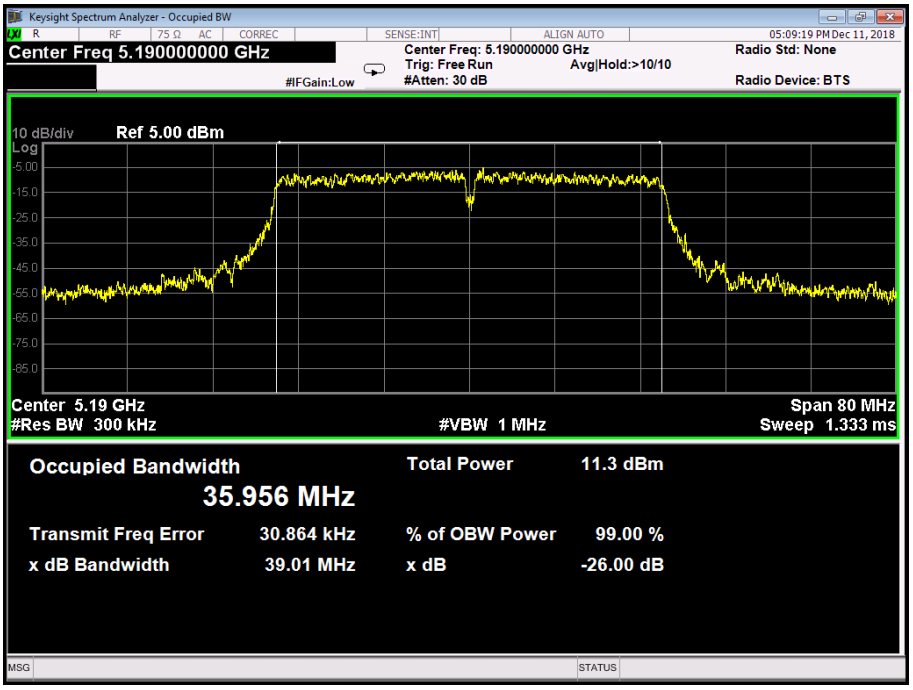
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode (U-NII-1)		

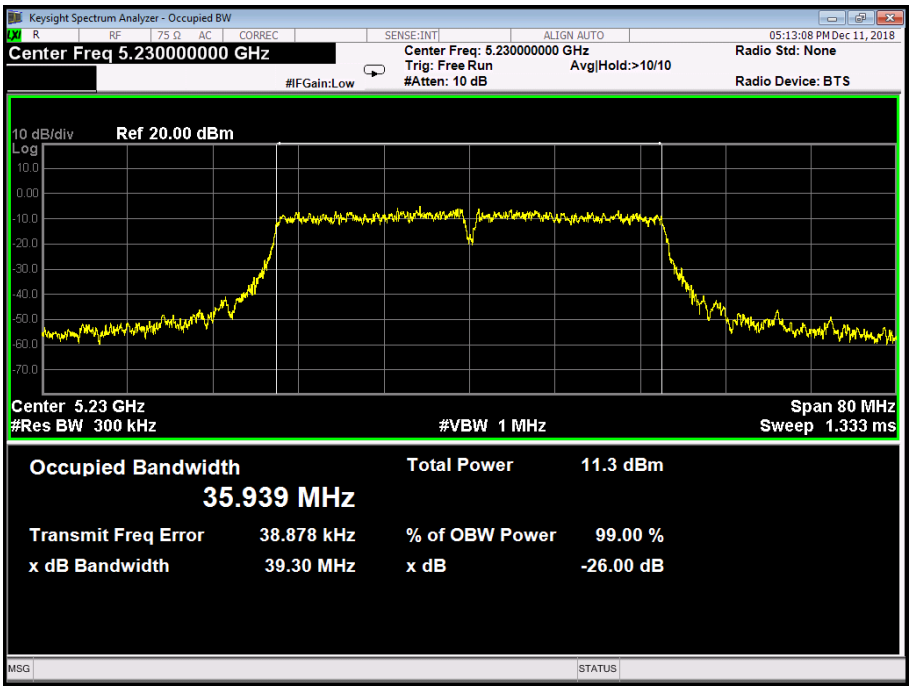
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	39.01	35.956
46	5230	39.30	35.939

802.11N(HT40) Mode

5190 MHz



802.11N(HT40) Mode
5230 MHz



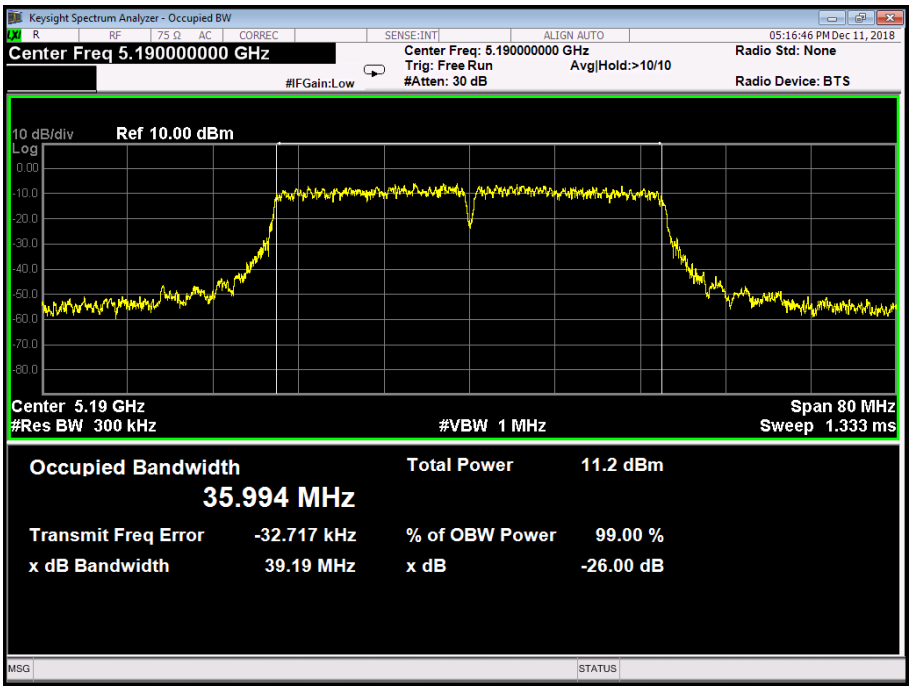
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	39.19	35.994
46	5230	39.34	35.987

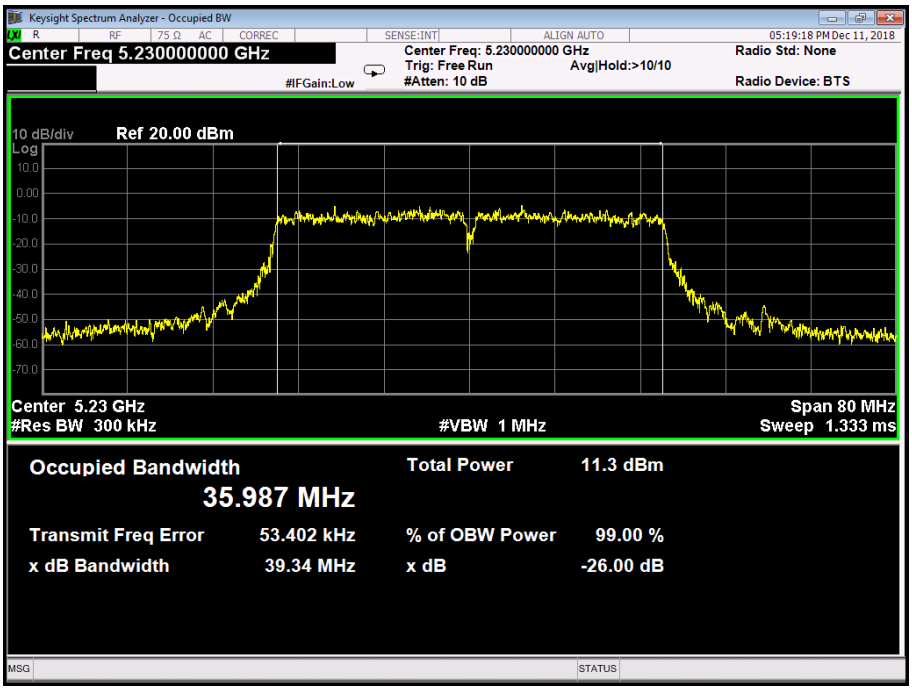
802.11ac(VHT40) Mode

5190 MHz



802.11ac(VHT40) Mode

5230 MHz



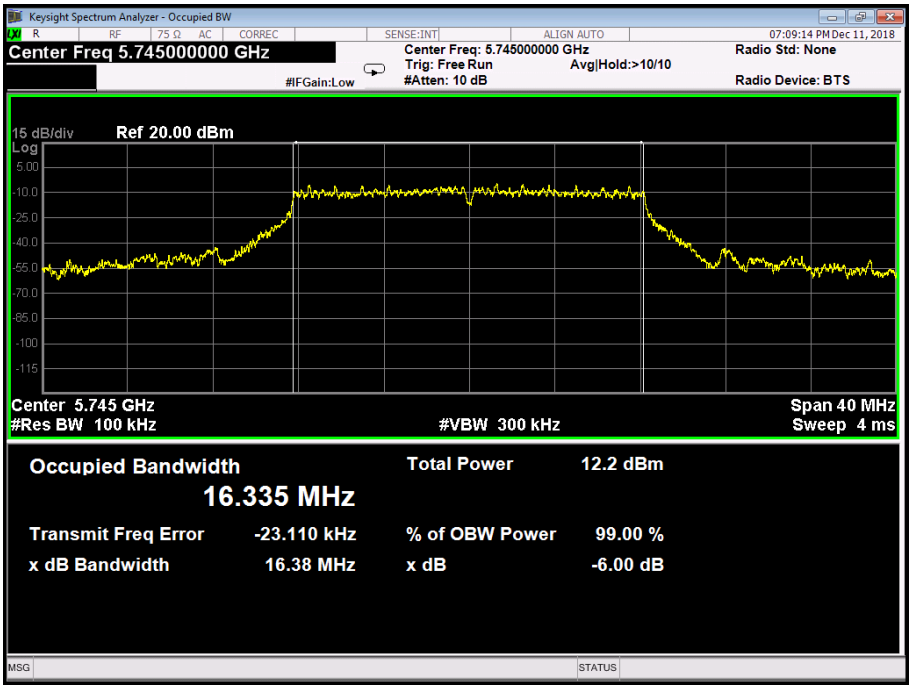
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode (U-NII-3)		

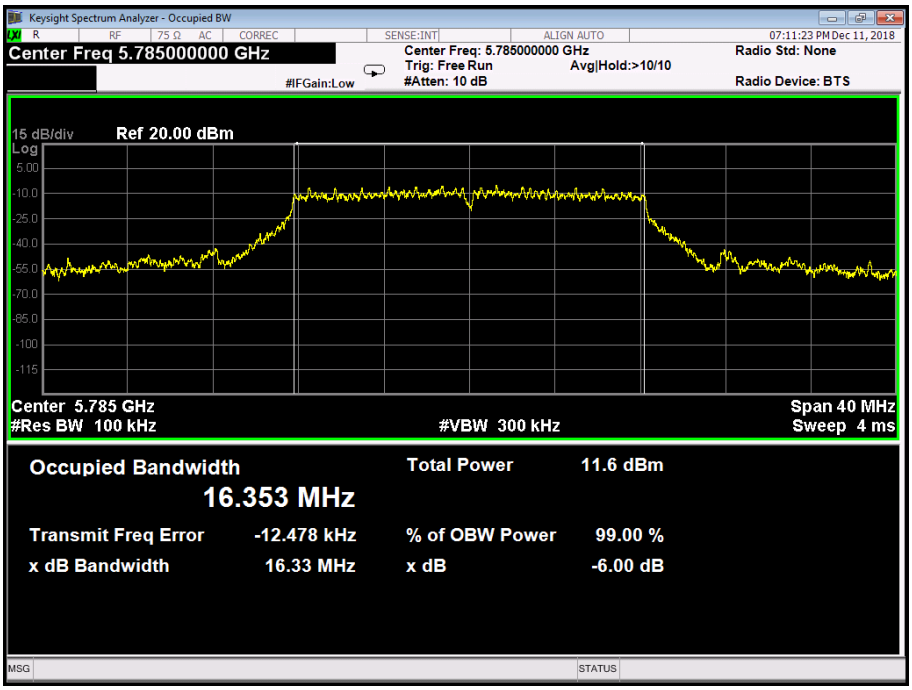
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.38	16.335
157	5785	16.33	16.353
165	5825	15.35	16.332

802.11a Mode

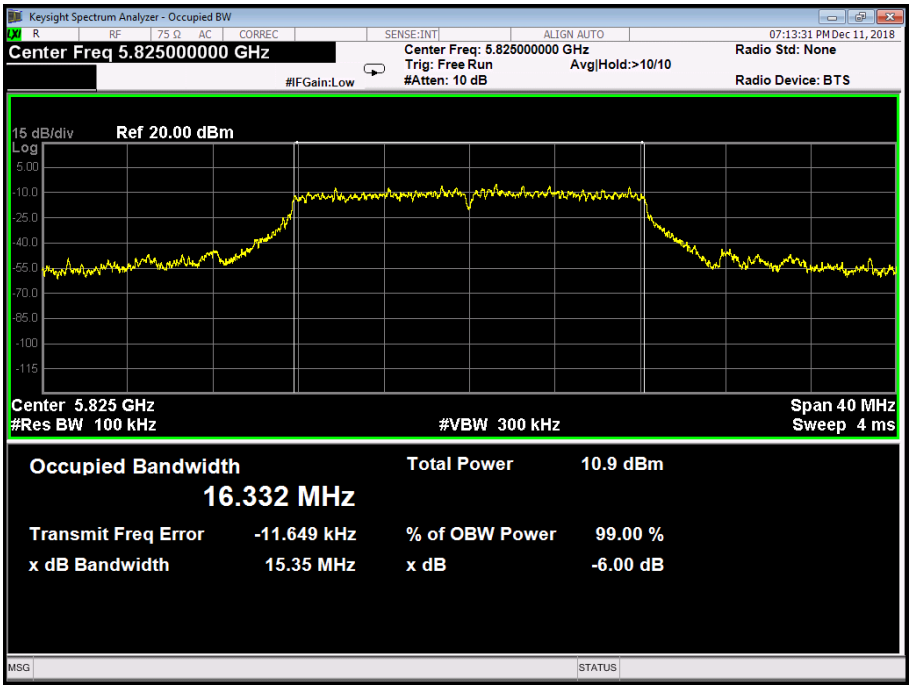
5745 MHz



802.11a Mode
5785 MHz



802.11a Mode
5825 MHz



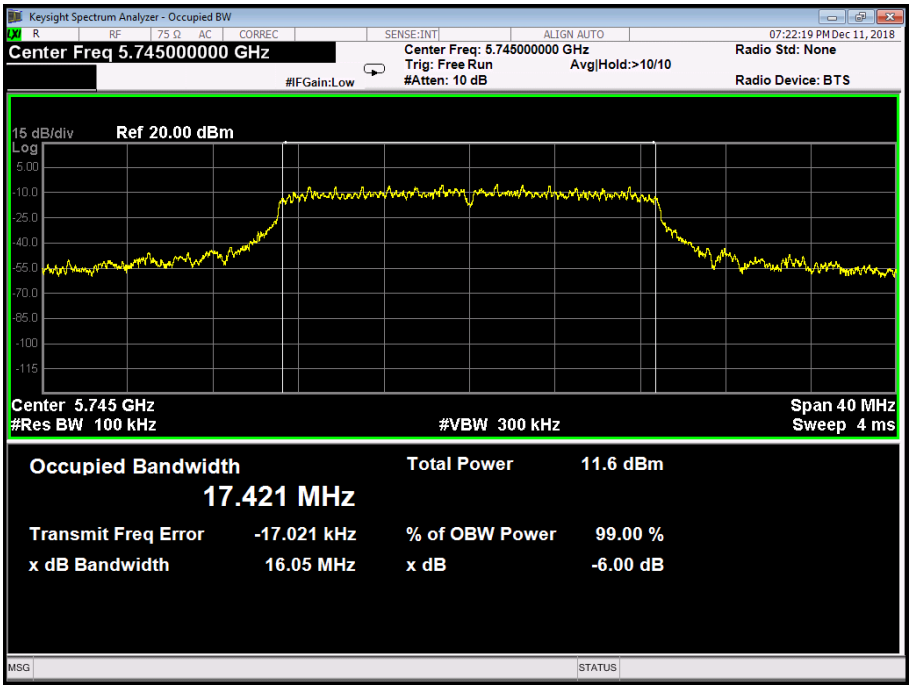
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(20) Mode (U-NII-3)		

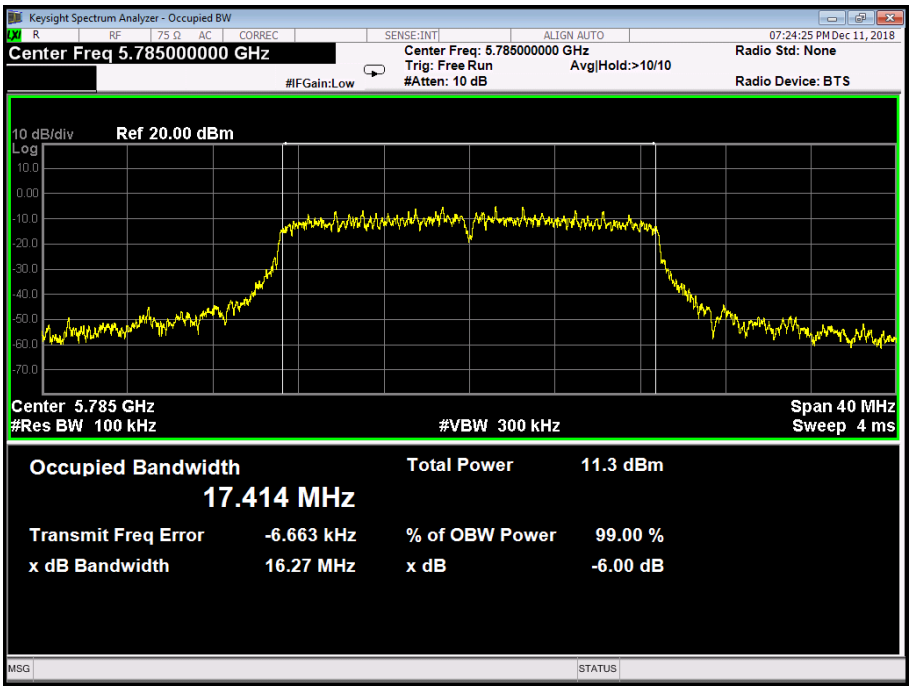
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.05	17.421
157	5785	16.27	17.414
165	5825	16.34	17.434

802.11n(HT20) Mode

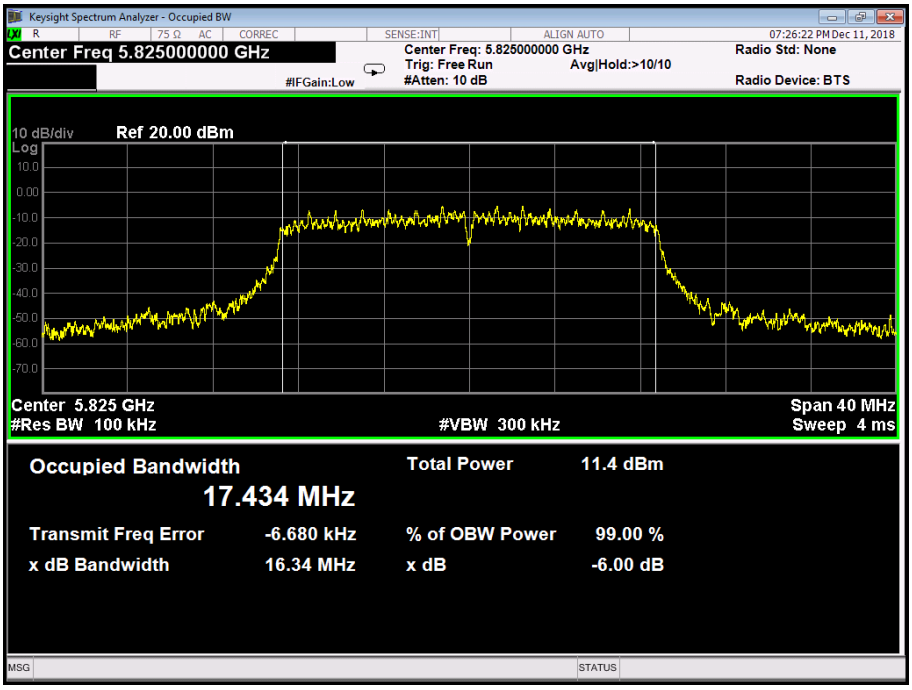
5745 MHz



802.11n(HT20) Mode
5785 MHz



802.11n(HT20) Mode
5825 MHz



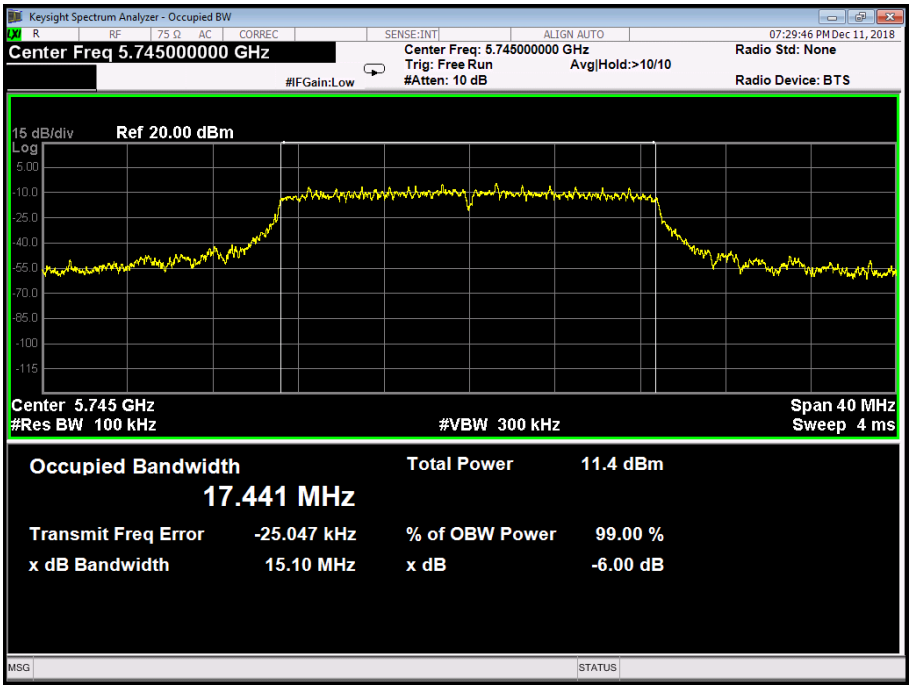
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT20) Mode (U-NII-3)		

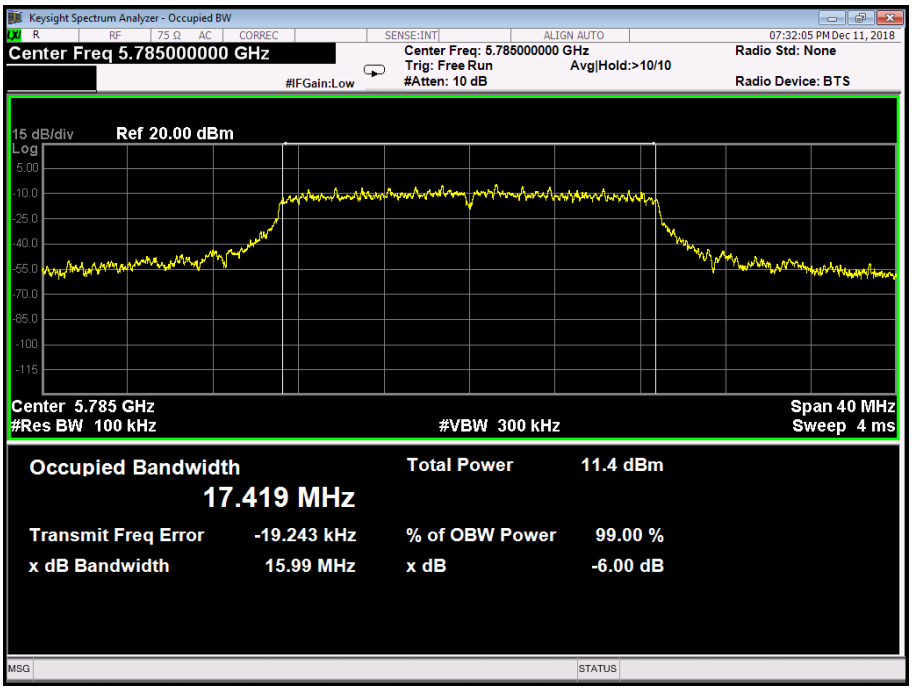
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	15.10	17.441
157	5785	15.99	17.419
165	5825	15.59	17.507

802.11ac(VHT20) Mode

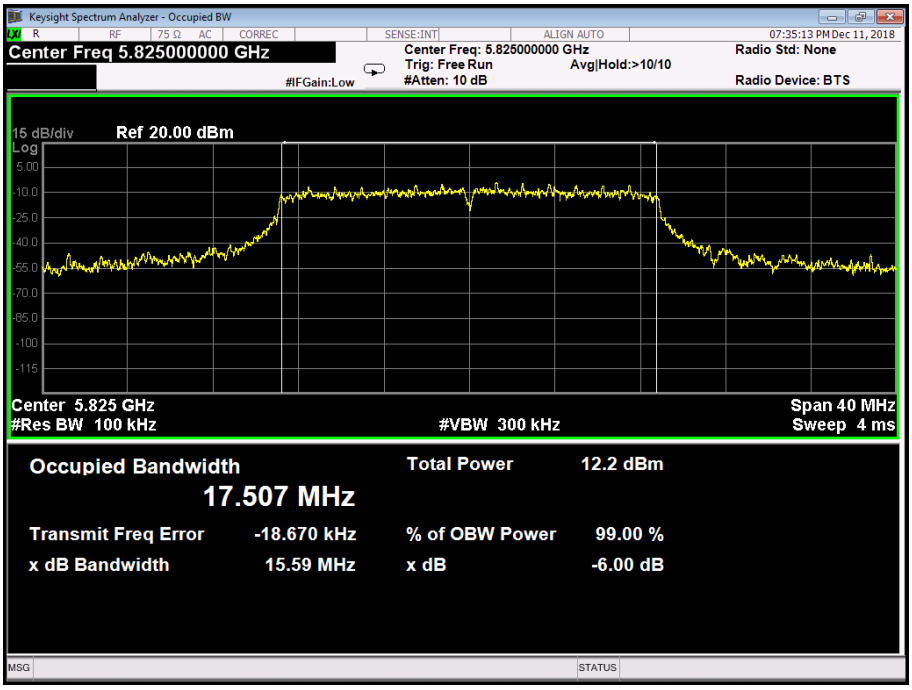
5745 MHz



802.11ac(VHT20) Mode
5785 MHz



802.11ac(VHT20) Mode
5825 MHz



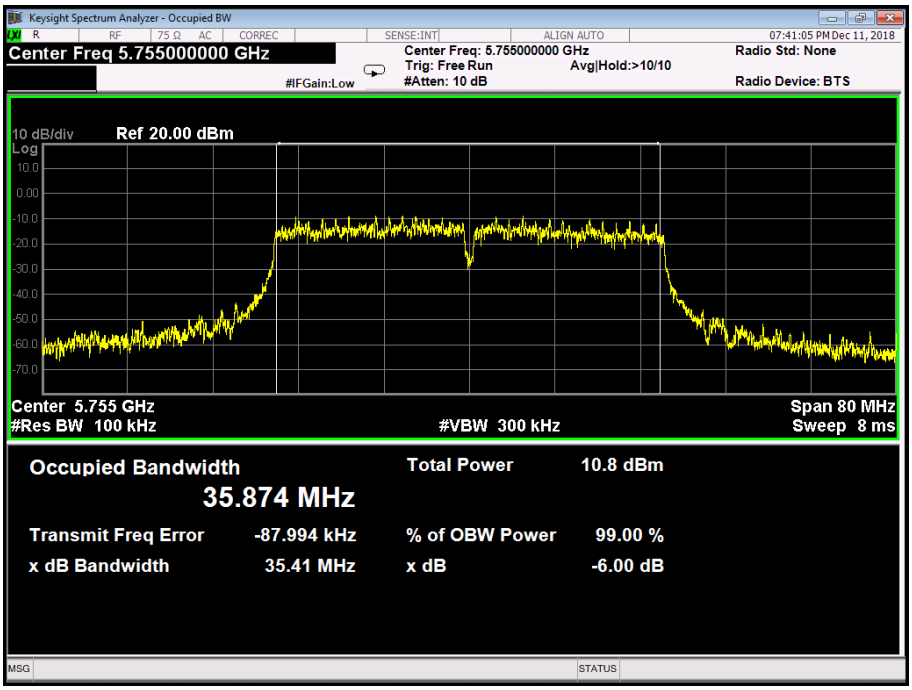
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(40) Mode (U-NII-3)		

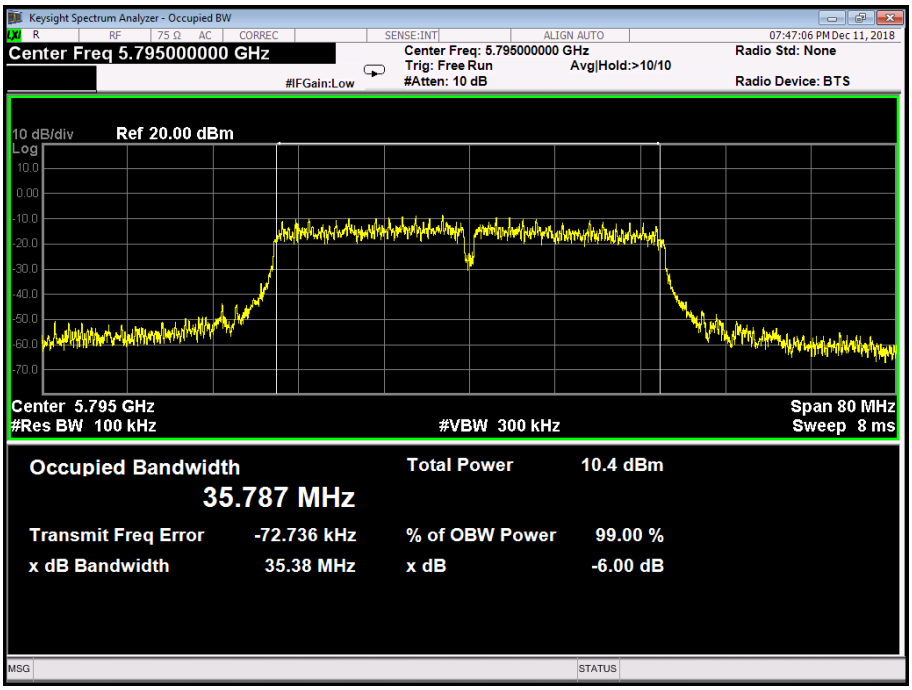
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.41	35.874
159	5795	35.38	35.787

802.11n(HT40) Mode

5755 MHz



802.11n(HT40) Mode
5795 MHz



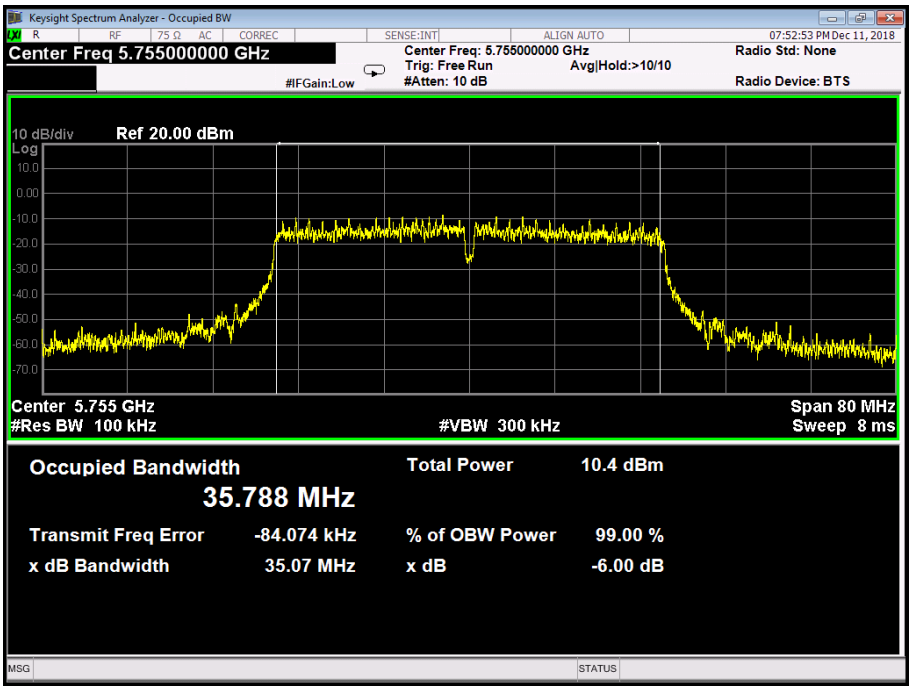
ANT 0:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.07	35.788
159	5795	35.37	35.809

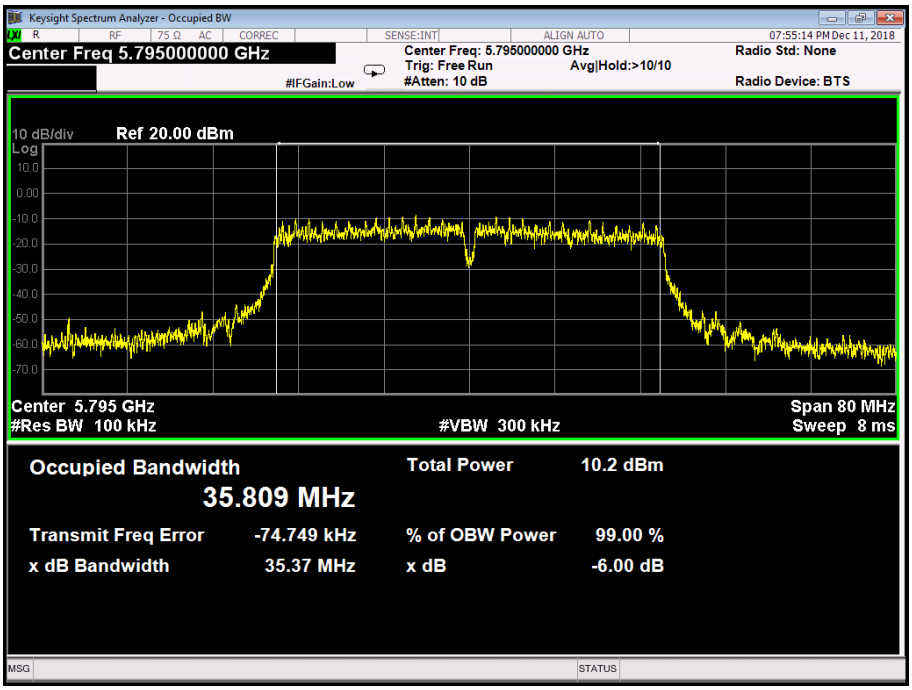
802.11ac(VHT40) Mode

5755 MHz



802.11ac(VHT40) Mode

5795 MHz



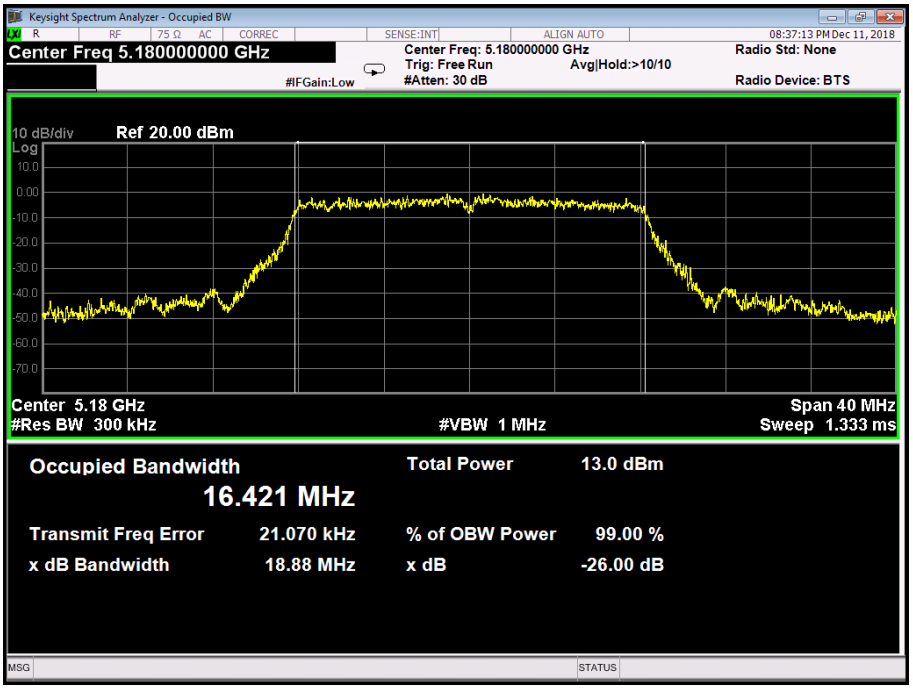
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode (U-NII-1)		

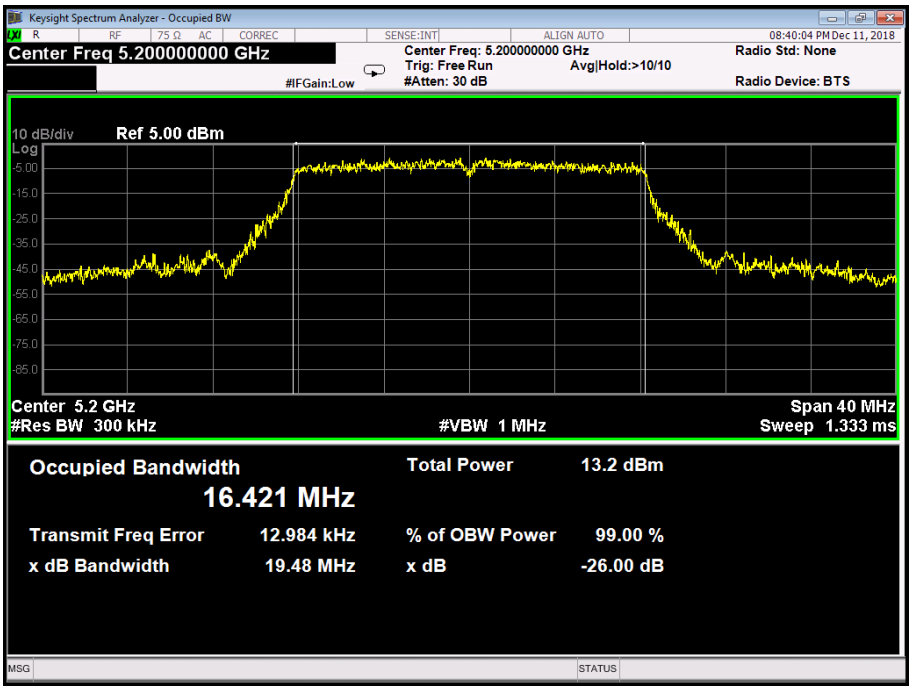
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	18.88	16.421
40	5200	19.48	16.421
48	5240	19.37	16.379

802.11a Mode

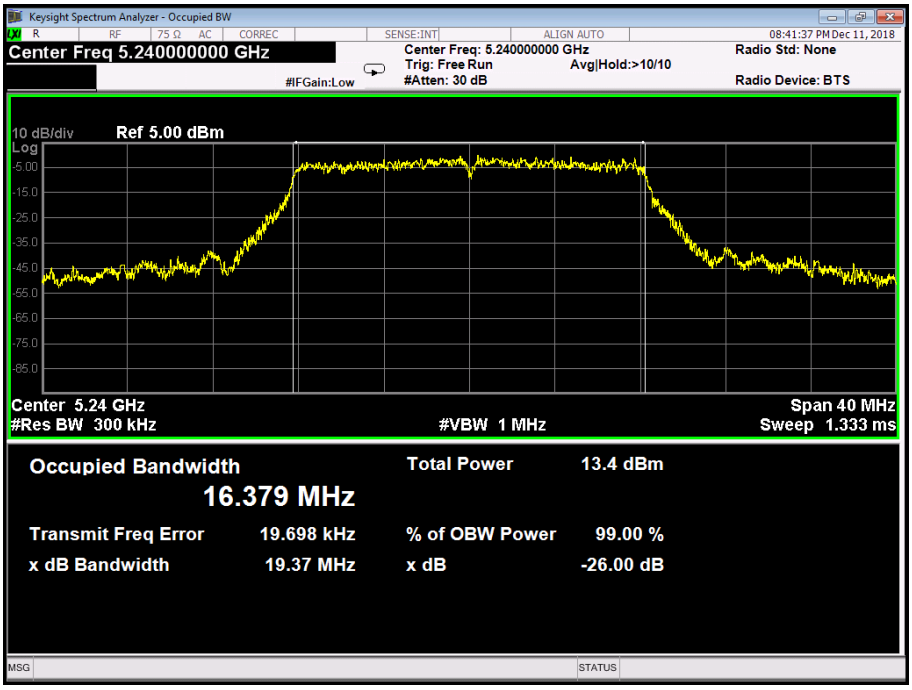
5180 MHz



802.11a Mode
5200 MHz



802.11a Mode
5240 MHz



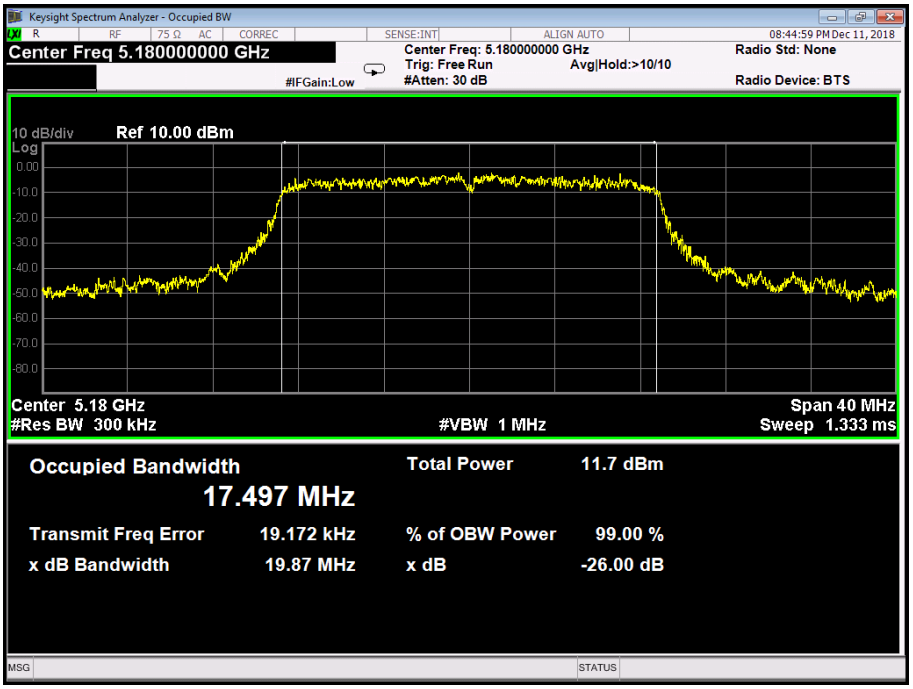
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(HT20) Mode (U-NII-1)		

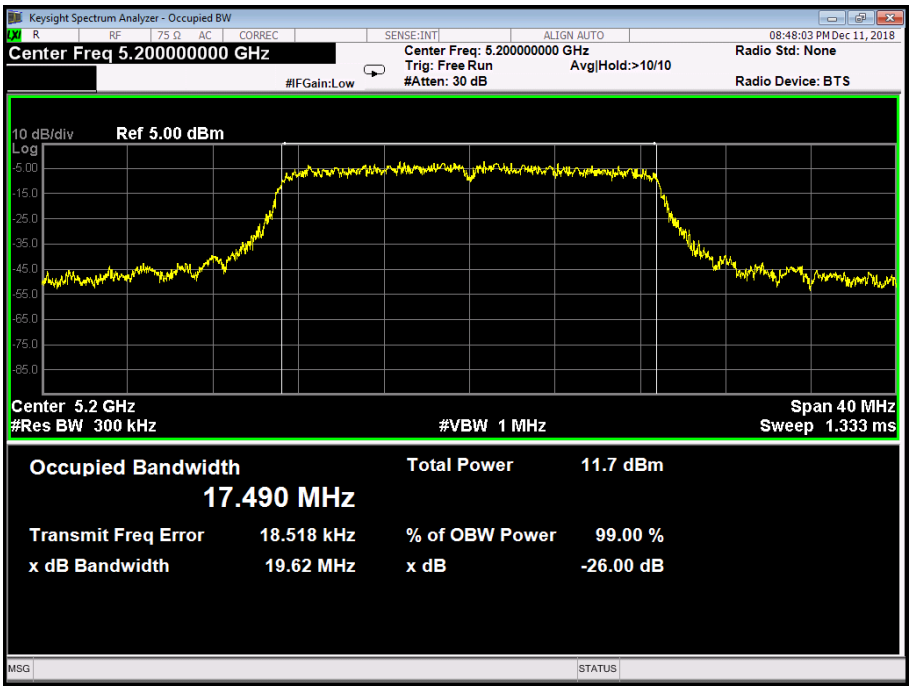
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.87	17.497
40	5200	19.62	17.490
48	5240	19.84	17.502

802.11n(HT20) Mode

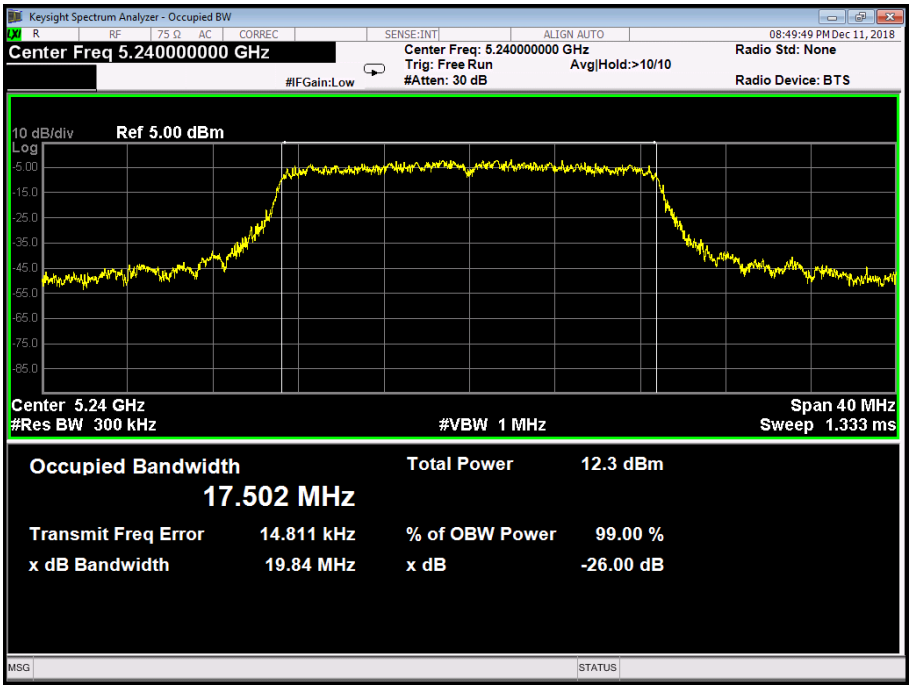
5180 MHz



802.11n(HT20) Mode
5200 MHz



802.11n(HT20) Mode
5240 MHz



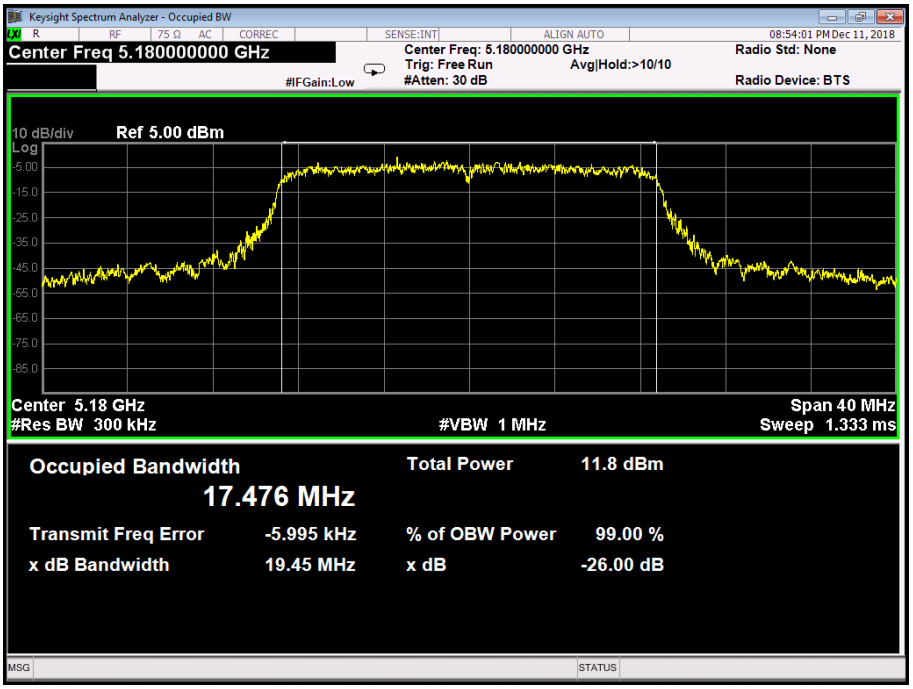
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT20) Mode (U-NII-1)		

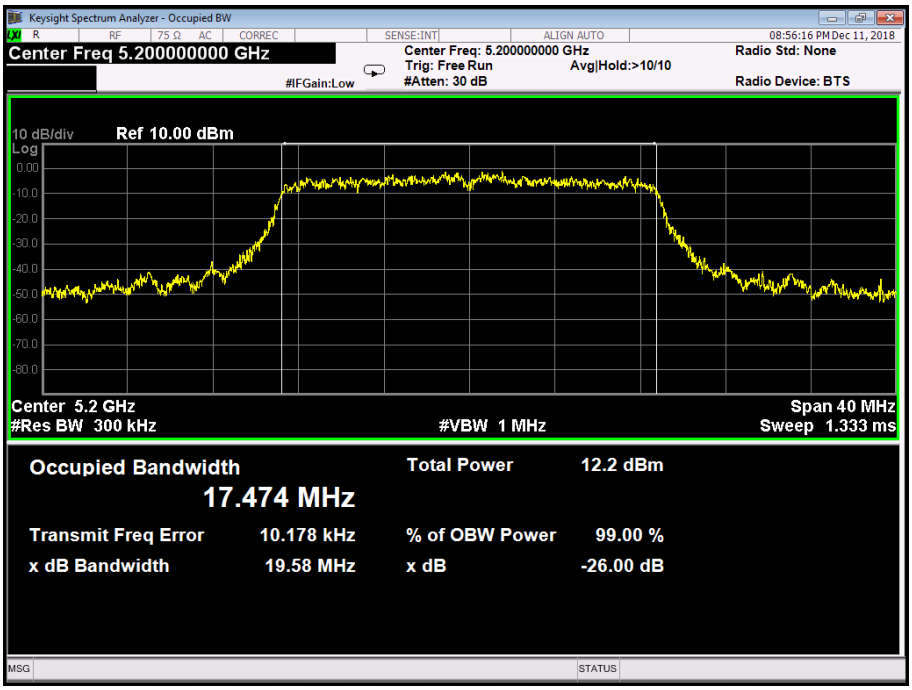
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	19.45	17.476
40	5200	19.58	17.474
48	5240	19.45	17.463

802.11ac(VHT20) Mode

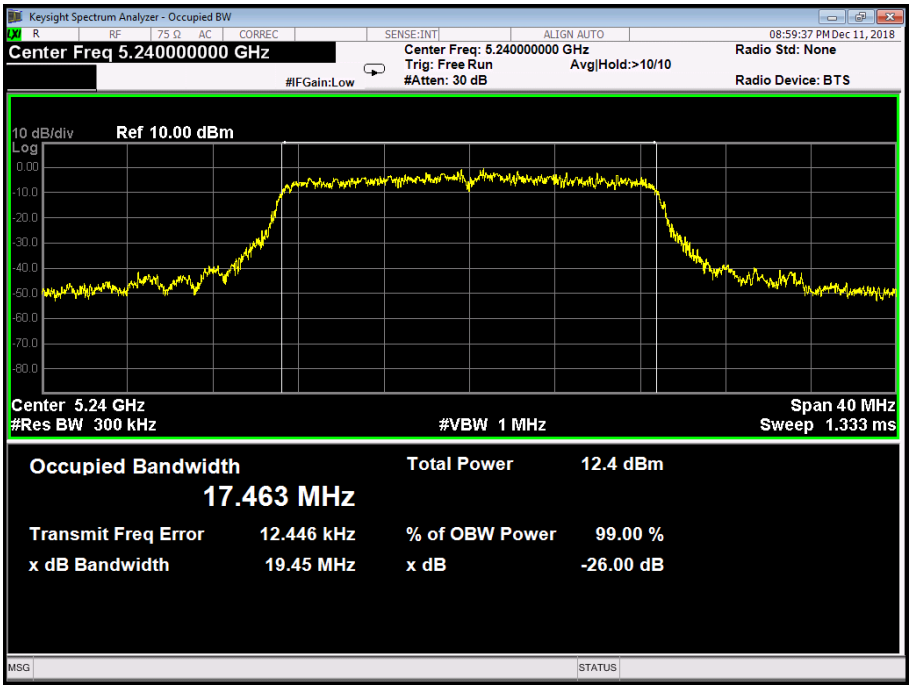
5180 MHz



802.11ac(VHT20) Mode
5200 MHz



802.11ac(VHT20) Mode
5240 MHz



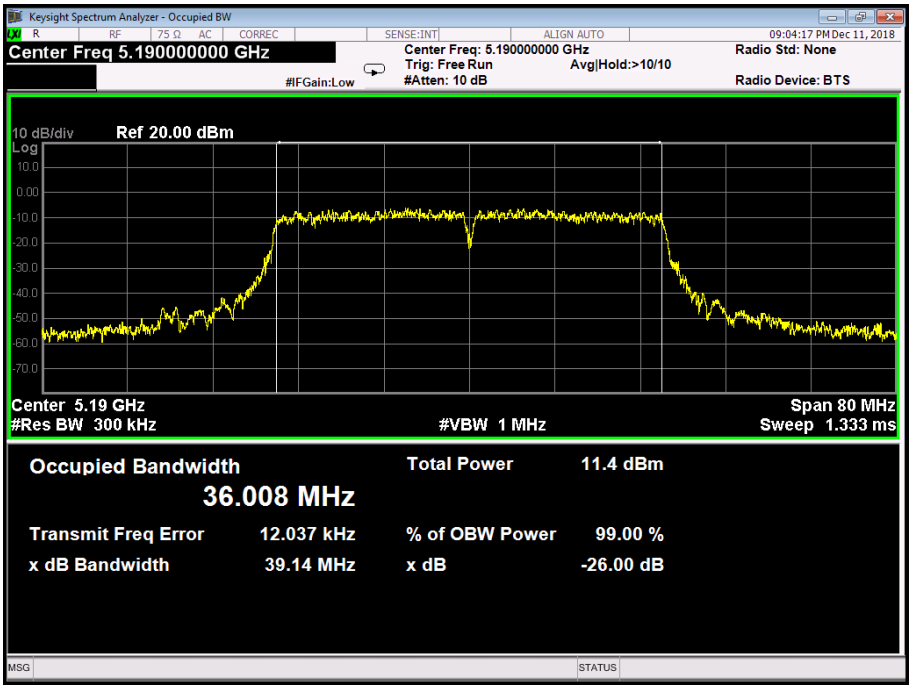
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode (U-NII-1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	39.14	36.008
46	5230	39.10	36.035

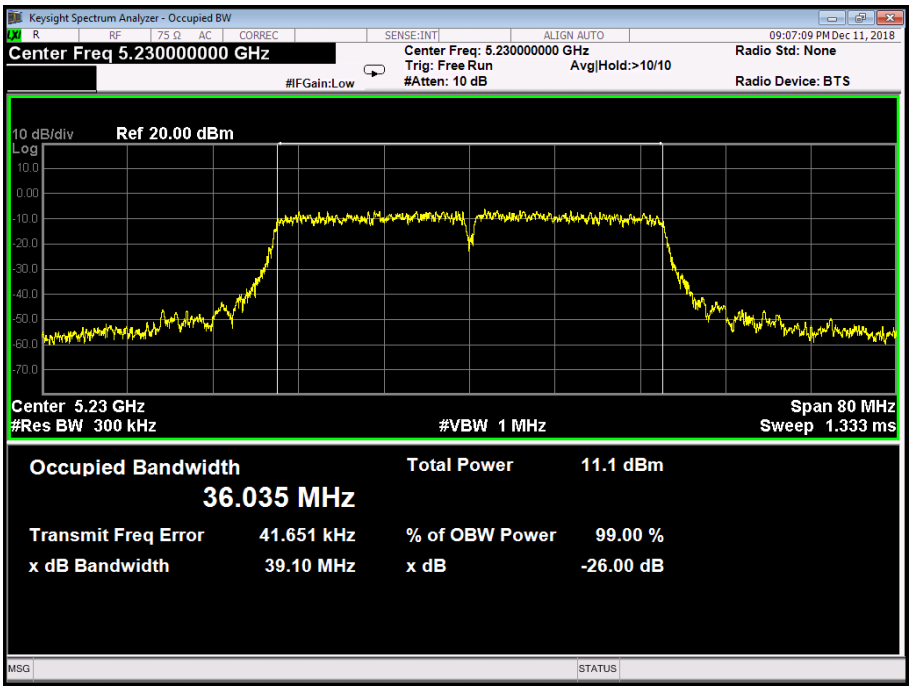
802.11N(HT40) Mode

5190 MHz



802.11N(HT40) Mode

5230 MHz



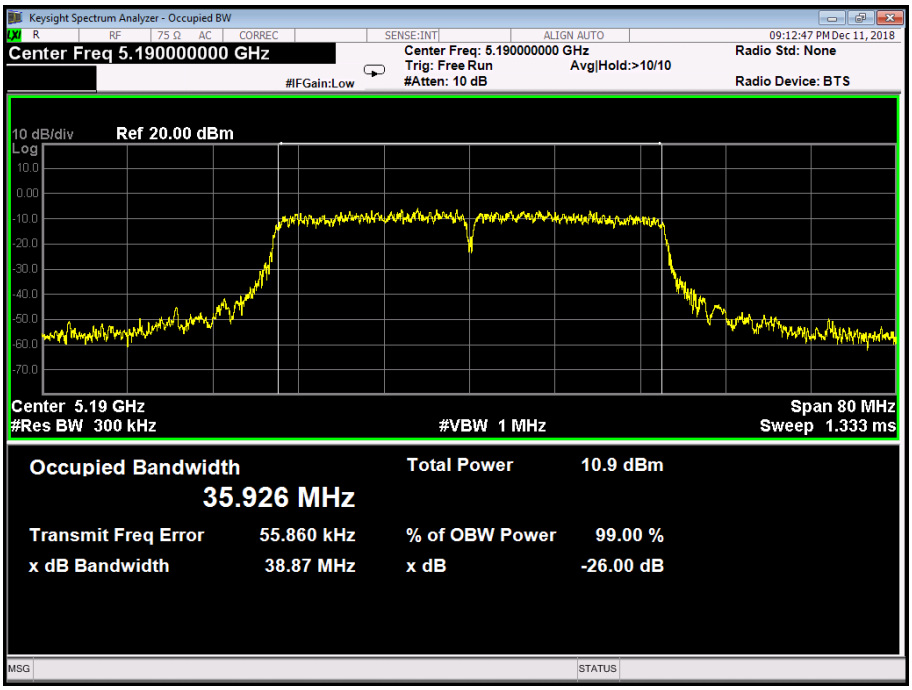
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	38.87	35.926
46	5230	38.74	35.966

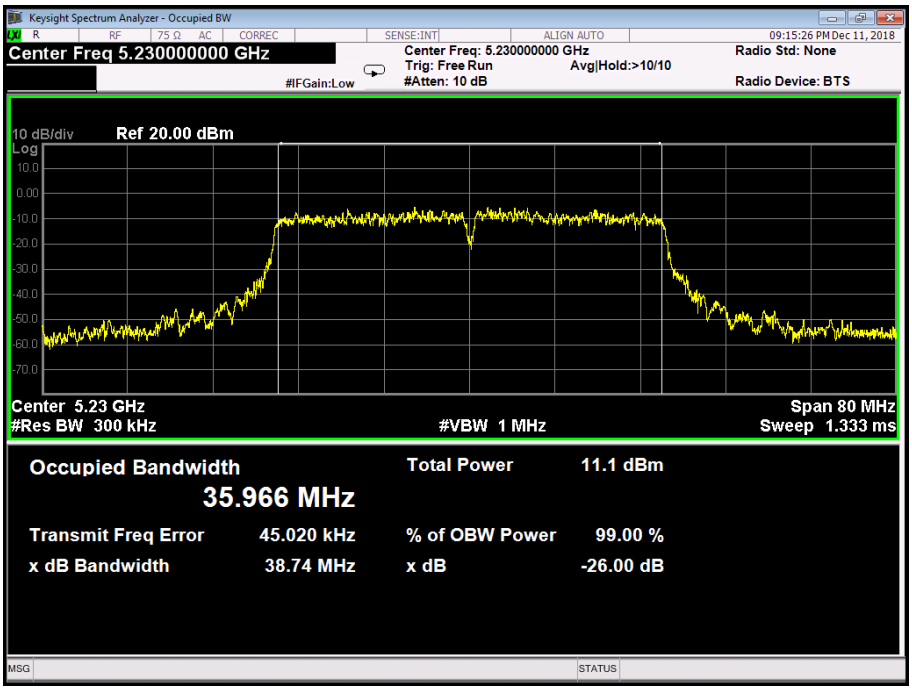
802.11ac(VHT40) Mode

5190 MHz



802.11ac(VHT40) Mode

5230 MHz



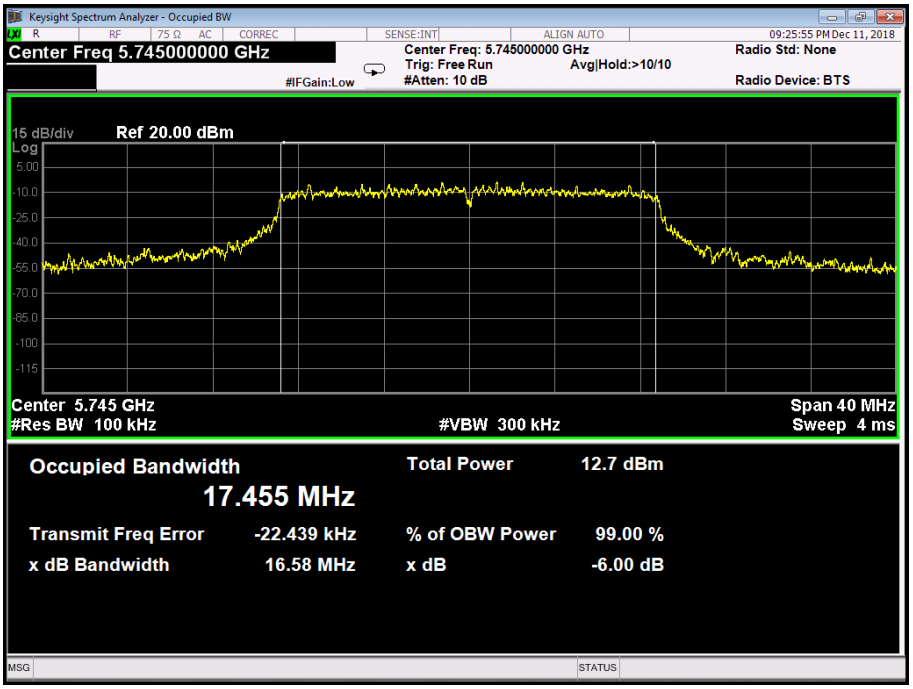
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode (U-NII-3)		

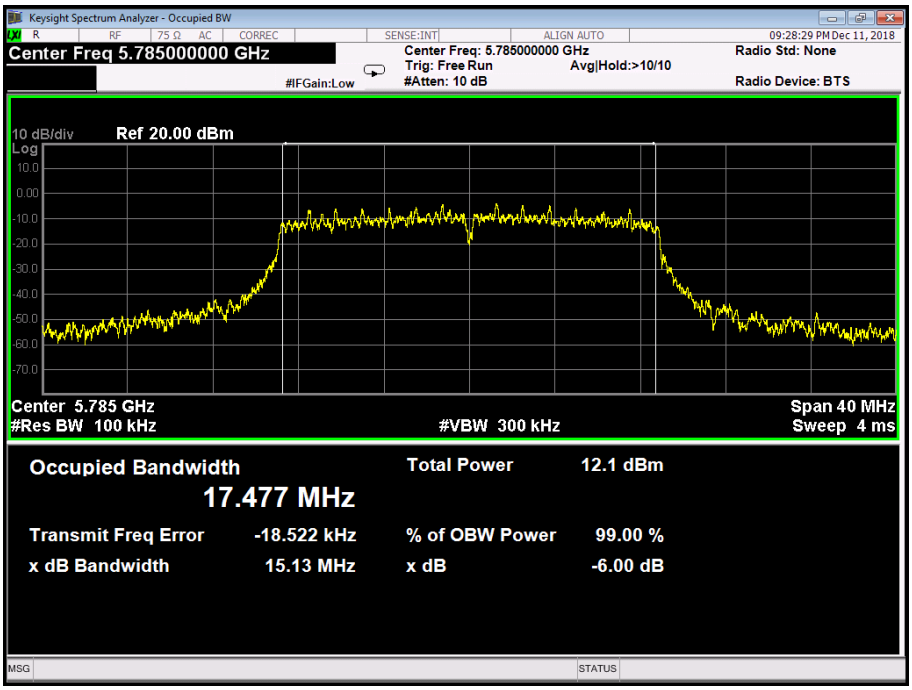
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.58	17.455
157	5785	15.13	17.477
165	5825	15.14	17.437

802.11a Mode

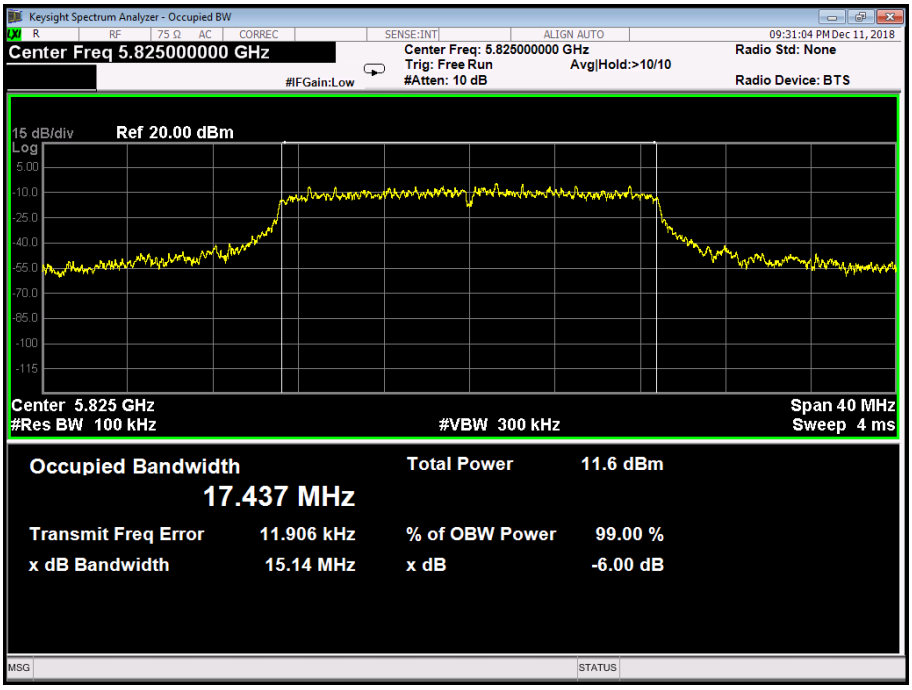
5745 MHz



802.11a Mode
5785 MHz



802.11a Mode
5825 MHz



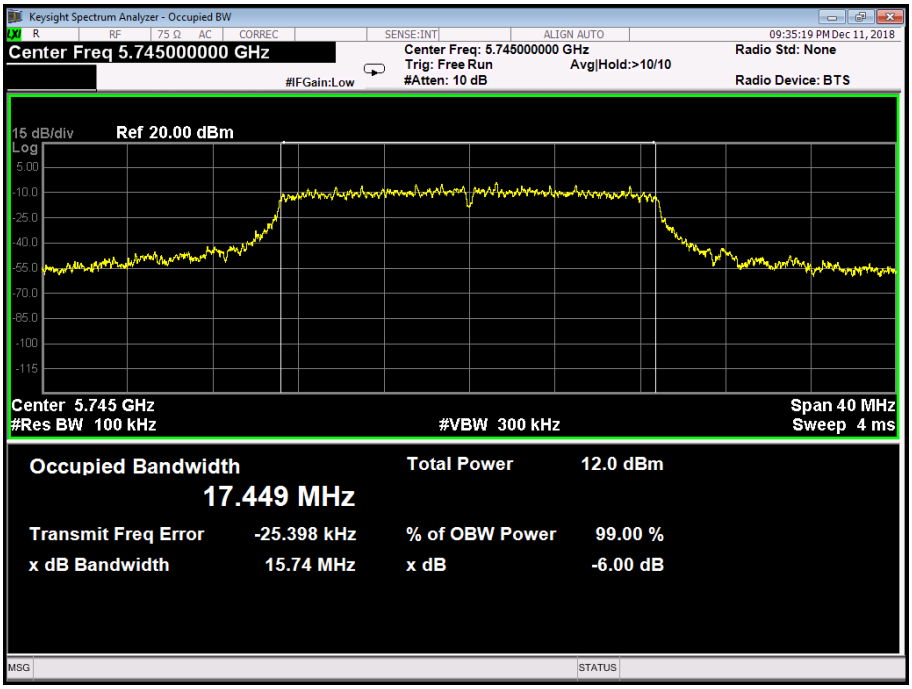
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(20) Mode (U-NII-3)		

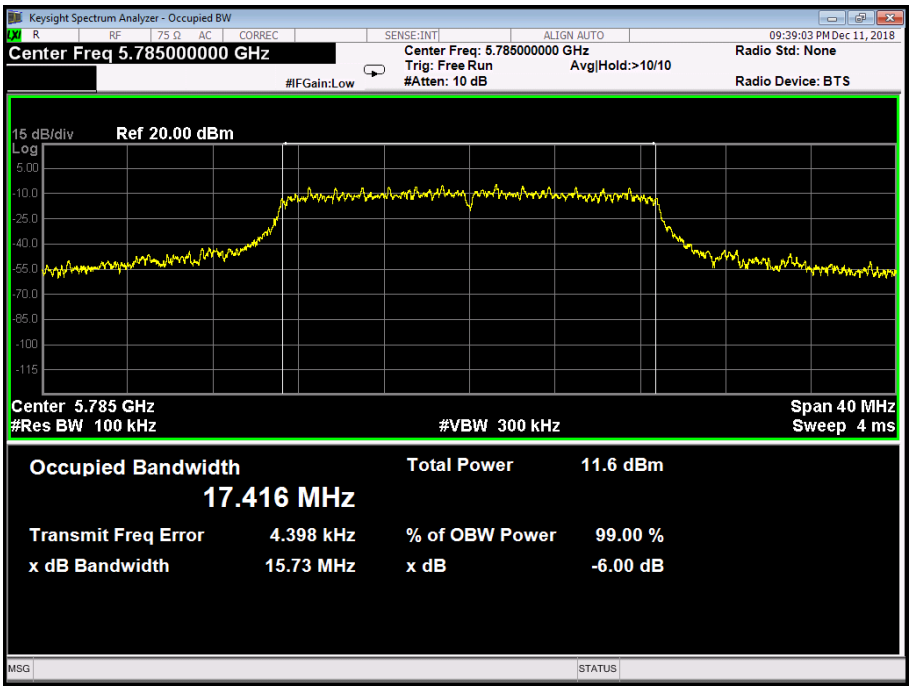
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	15.74	17.449
157	5785	15.73	17.416
165	5825	15.30	17.444

802.11n(HT20) Mode

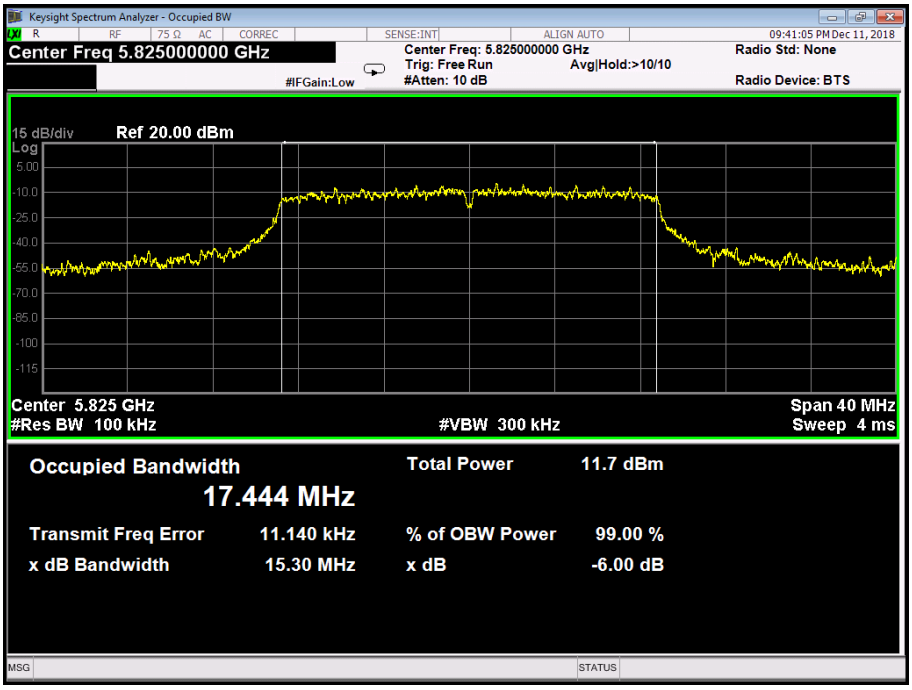
5745 MHz



802.11n(HT20) Mode
5785 MHz



802.11n(HT20) Mode
5825 MHz



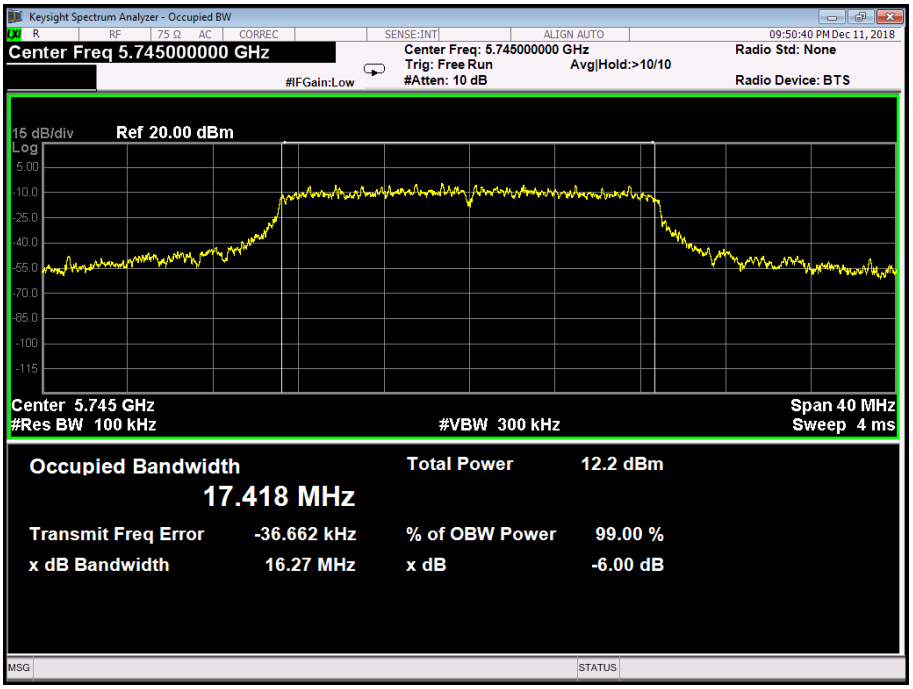
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT20) Mode (U-NII-3)		

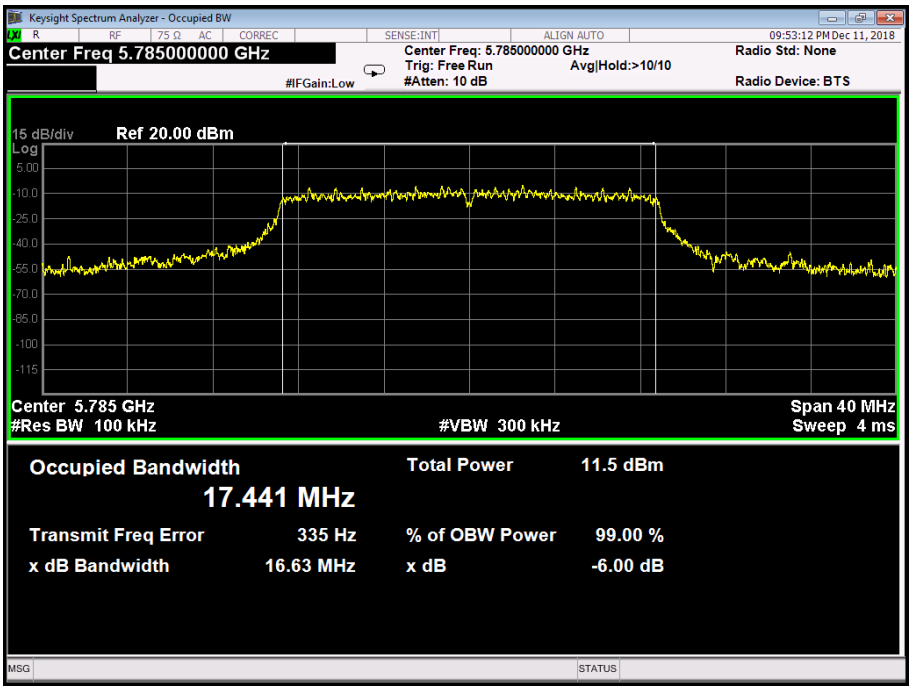
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.27	17.418
157	5785	16.63	17.441
165	5825	15.71	17.432

802.11ac(VHT20) Mode

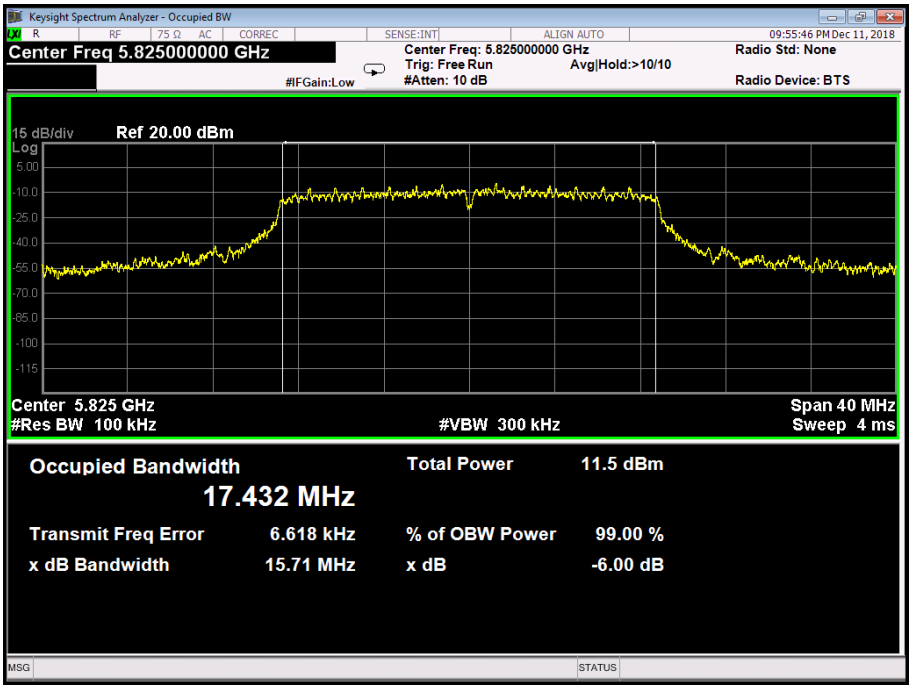
5745 MHz



802.11ac(VHT20) Mode
5785 MHz



802.11ac(VHT20) Mode
5825 MHz



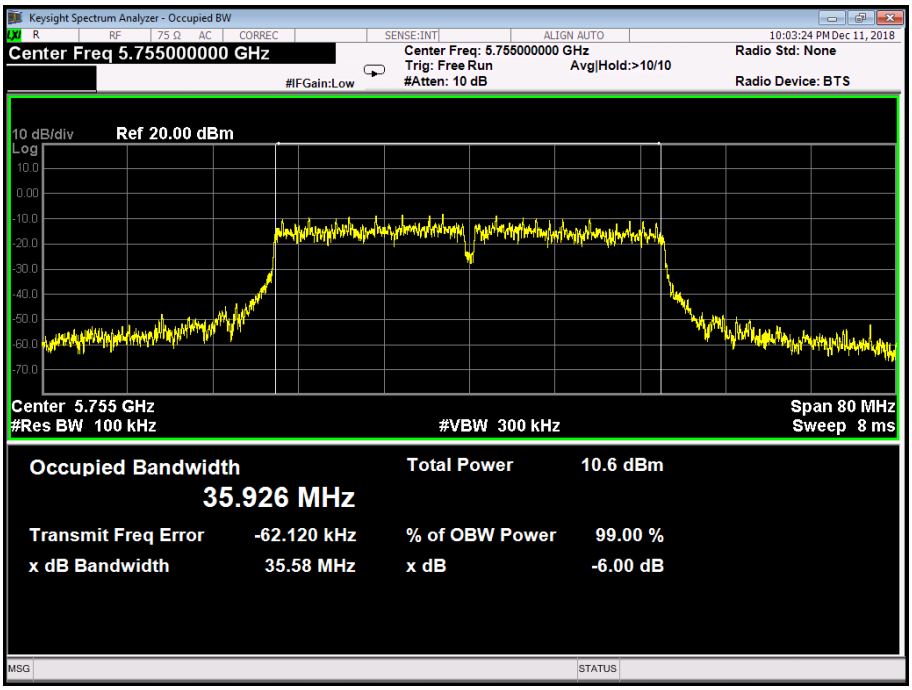
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(40) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.58	35.926
159	5795	35.13	35.803

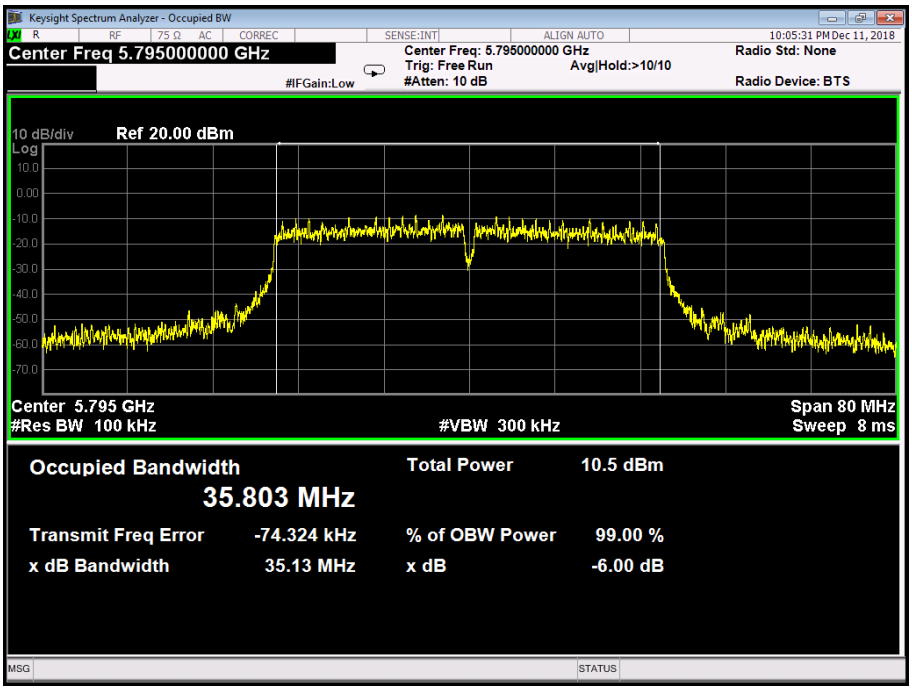
802.11n(HT40) Mode

5755 MHz



802.11n(HT40) Mode

5795 MHz



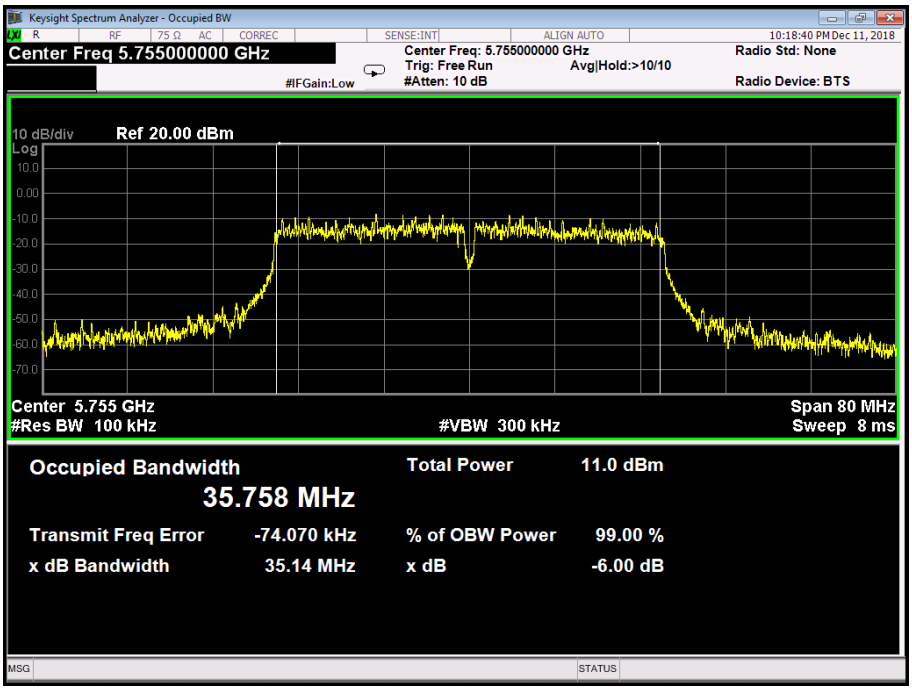
ANT 1:

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-3)		

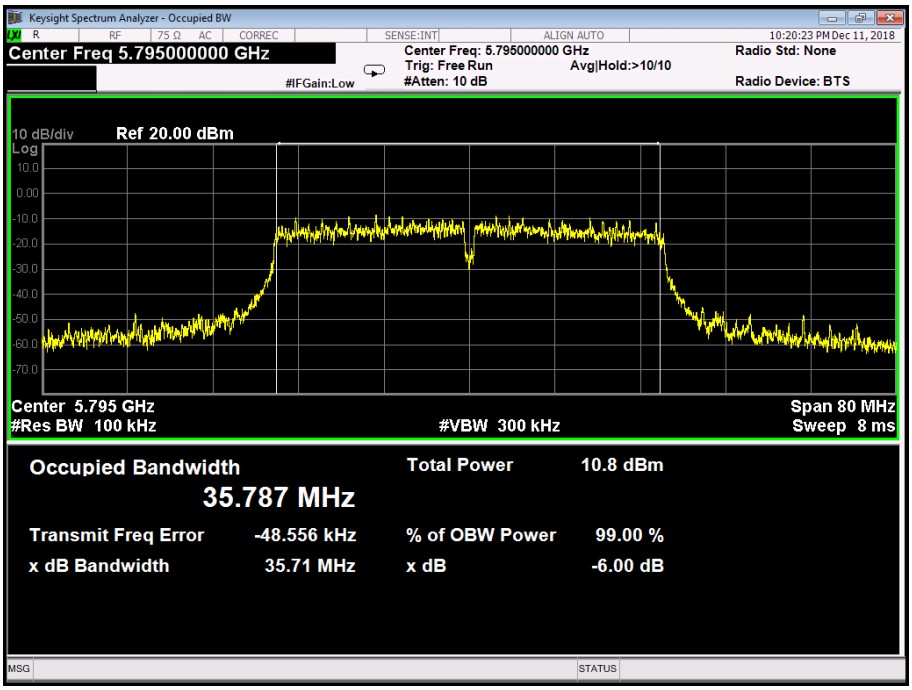
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.14	35.758
159	5795	35.71	35.787

802.11ac(VHT40) Mode

5755 MHz



802.11ac(VHT40) Mode
5795 MHz



Attachment E-- Output Power Test Data

Note : GANT =6dBi, Array Gain=10log(NANT/NSS)=3.01dBi, Directional Gain=GANT + Array Gain=8.01dBi, 8.01dBi >6dBi

so limit=24-(8.01-6)=21.99dBm for U-NII 1, 30-(8.01-6)=27.99dBm for U-NII 3

Type	Bands	Channel	Output power Ant 0 (dBm)	Output power Ant 1 (dBm)	Output power Total (dBm)	Limit (dBm)	Result
802.11a	U-NII 1	36	16.11	15.19	/	21.99	Pass
		40	15.76	15.25	/		
		48	16.38	15.65	/		
	U-NII 3	149	16.63	16.44	/	27.99	
		157	16.26	16.25	/		
		165	16.69	16.67	/		
802.11n(HT20) MIMO	U-NII 1	36	15.28	15.89	18.61	21.99	Pass
		40	14.93	15.03	17.99		
		48	15.44	14.70	18.10		
	U-NII 3	149	15.34	15.62	18.49	27.99	
		157	15.57	15.40	18.50		
		165	15.47	15.89	18.70		
802.11n(HT40) MIMO	U-NII 1	38	15.83	15.22	18.11	21.99	Pass
		46	15.37	14.34	17.90		
	U-NII 3	151	15.44	14.12	17.84	27.99	
		159	15.25	14.23	17.78		
802.11ac(HT20) MIMO	U-NII 1	36	14.65	14.48	17.58	21.99	Pass
		40	14.93	14.42	17.69		
		48	15.07	14.58	17.84		
	U-NII 3	149	15.93	15.43	18.70	27.99	
		157	15.82	15.42	18.63		
		165	16.66	15.12	18.97		
802.11ac(HT40) MIMO	U-NII 1	38	15.51	15.83	18.68	21.99	Pass
		46	15.75	15.14	18.47		
	U-NII 3	151	15.88	15.81	18.86	27.99	
		159	15.96	15.51	18.75		

Test Mode		Duty cycle
U-NII-1	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(HT20)	
	802.11 n(HT40)	
	802.11 ac(HT40)	
U-NII-3	802.11 a	
	802.11 n(HT20)	
	802.11 ac(HT20)	
	802.11 n(HT40)	
	802.11 ac(HT40)	

Attachment F-- Power Spectral Density Test Data

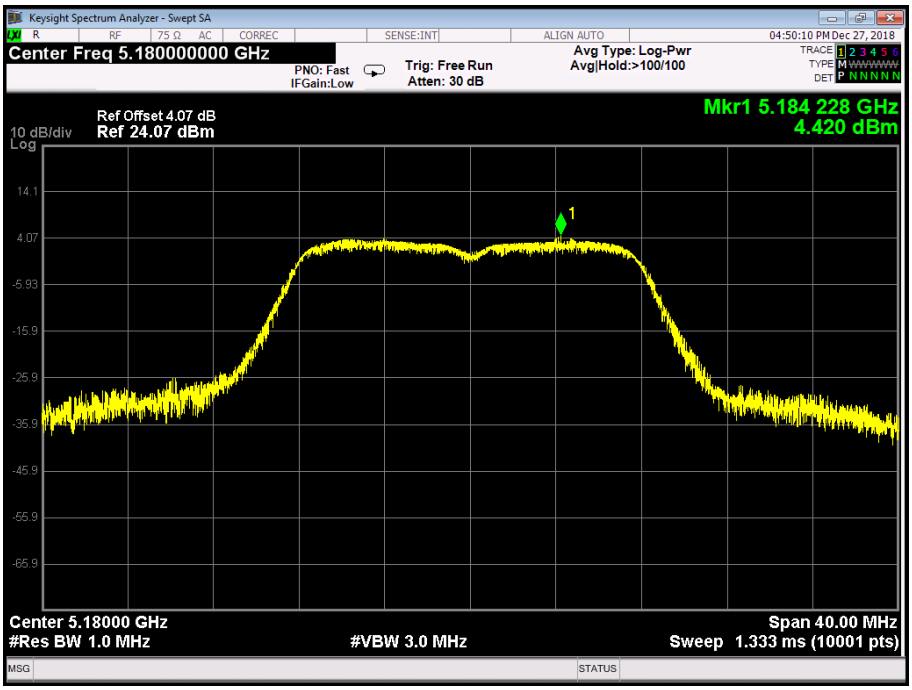
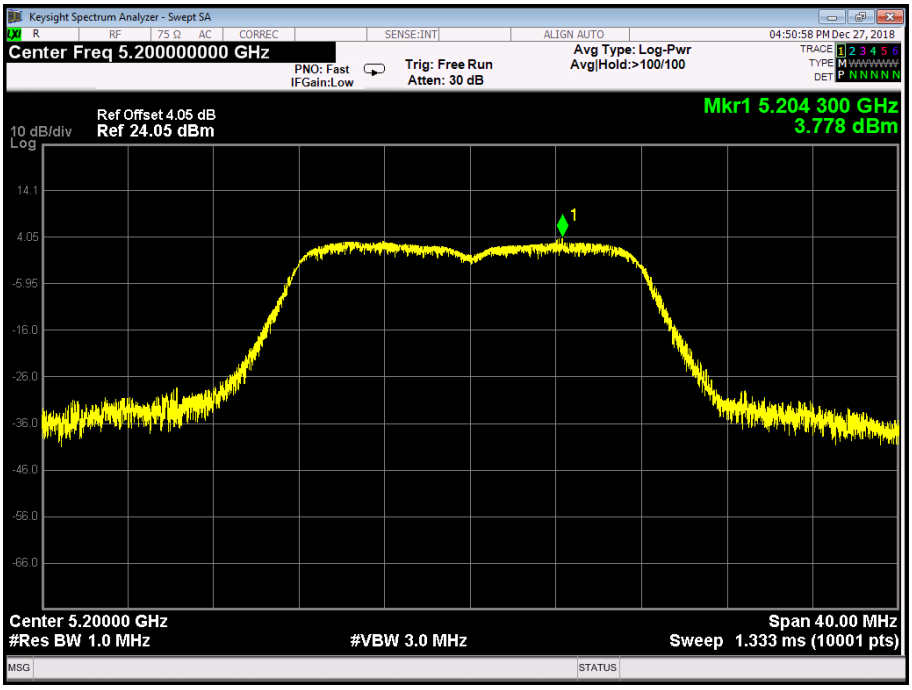
Note : GANT =6dBi, Array Gain=10log(NANT/NSS)=3.01dBi, Directional Gain=GANT + Array Gain=8.01dBi, 8.01dBi >6dBi so limit=11-(8.01-6)=8.99dBm for U-NII 1

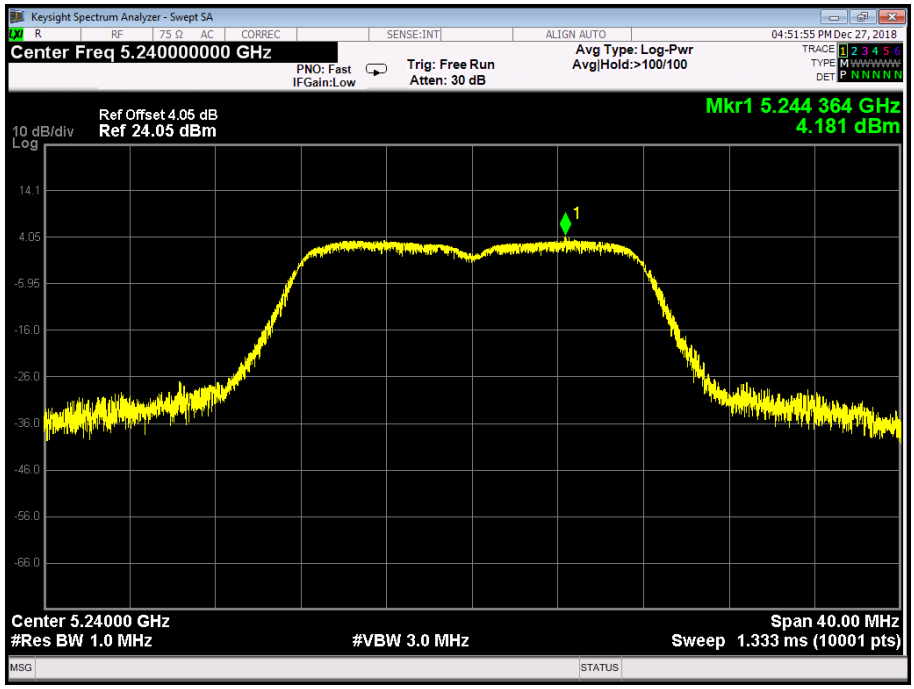
Type	Bands	Channel	Power Spectral Density Ant 0 (dBm/MHz)	Power Spectral Density Ant 1 (dBm/MHz)	Power Spectral Density Total (dBm/ 1MHz)	Limit (dBm/MHz)	Result
802.11a SISO	U-NII 1	36	4.420	3.718	/	8.99	Pass
		40	3.778	3.016	/		
		48	4.181	3.302	/		
802.11n (VHT20) MIMO	U-NII 1	36	3.966	3.992	6.989		
		40	3.392	3.345	6.379		
		48	3.698	2.546	6.170		
802.11n (VHT40) MIMO	U-NII 1	38	3.102	3.489	6.310		
		46	3.039	3.290	6.177		
802.11ac (VHT20) MIMO	U-NII 1	36	3.949	3.848	6.909		
		40	3.269	3.085	6.188		
		48	3.679	3.626	6.663		
802.11ac (VHT40) MIMO	U-NII 1	38	3.195	3.343	6.280		
		46	3.132	3.331	6.243		

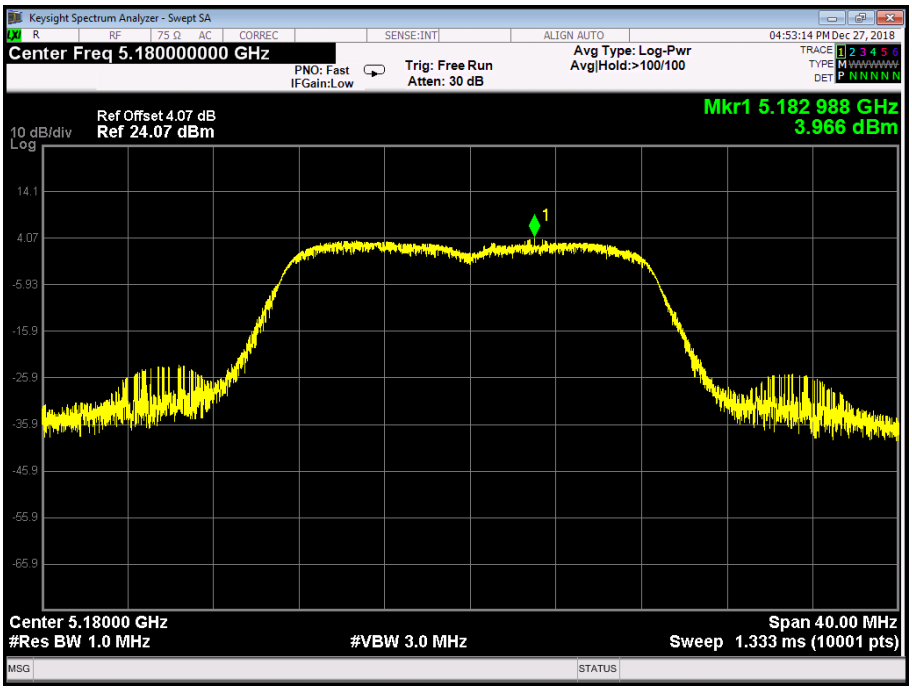
Type	Bands	Channel	Power Spectral Density Ant 0 (dBm/500KHz)	Power Spectral Density Ant 1 (dBm/500KHz)	Power Spectral Density Total (dBm/ 500KHz)	Limit (dBm/500KHz)	Result
802.11a SISO	U-NII 3	149	7.414	6.724	/	27.99	Pass
		157	6.115	6.508	/		
		165	5.713	5.286	/		
802.11n (HT20) MIMO	U-NII 3	149	4.728	5.984	8.412		
		157	5.704	5.291	8.513		
		165	5.631	5.583	8.617		
802.11n (HT40) MIMO	U-NII 3	151	2.394	1.882	5.156		
		159	1.511	1.838	4.688		
802.11ac (HT20) MIMO	U-NII 3	149	5.195	6.316	8.802		
		157	4.954	5.180	8.079		
		165	6.278	5.766	9.040		
802.11ac (HT40) MIMO	U-NII 3	151	1.438	2.176	4.833		
		159	2.436	2.074	5.269		

Note : GANT =6dBi, Array Gain=10log(NANT/NSS)=3.01dBi, Directional Gain=GANT + Array Gain=8.01dBi, 8.01dBi >6dBi so limit=30-(8.01-6)=27.99dBm for U-NII 3

ANT 0:

802.11 a 5180 MHz

802.11 a 5200 MHz

802.11 a 5240 MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:51:55 PM Dec 27, 2018
Ref Offset 4.05 dB
10 dB/div
Log
Ref 24.05 dBm
Mkr1 5.244 364 GHz
4.181 dBm
14.1
4.05
-5.95
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

802.11 n(20) 5180 MHz

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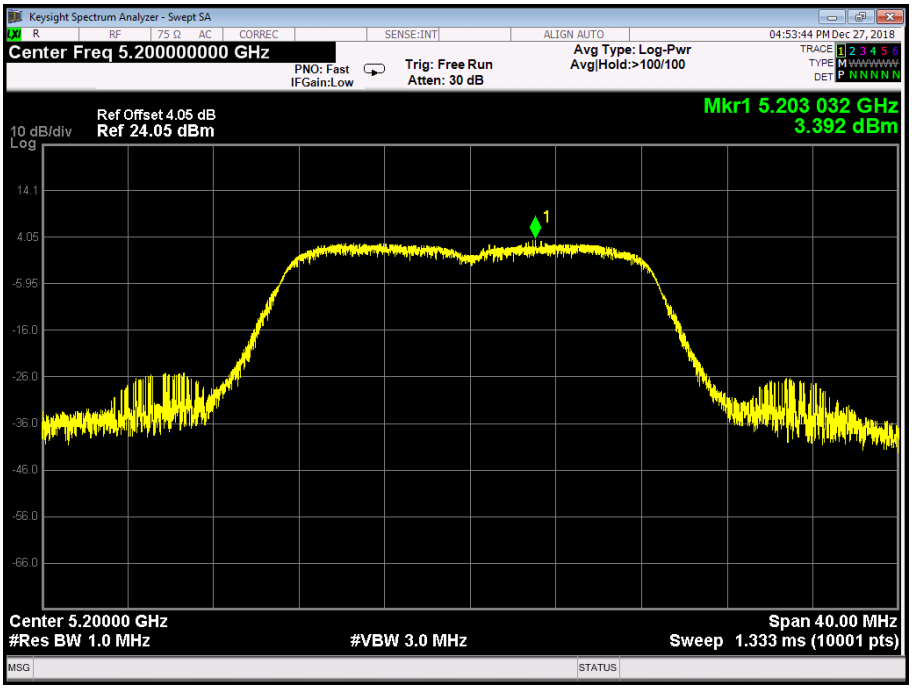
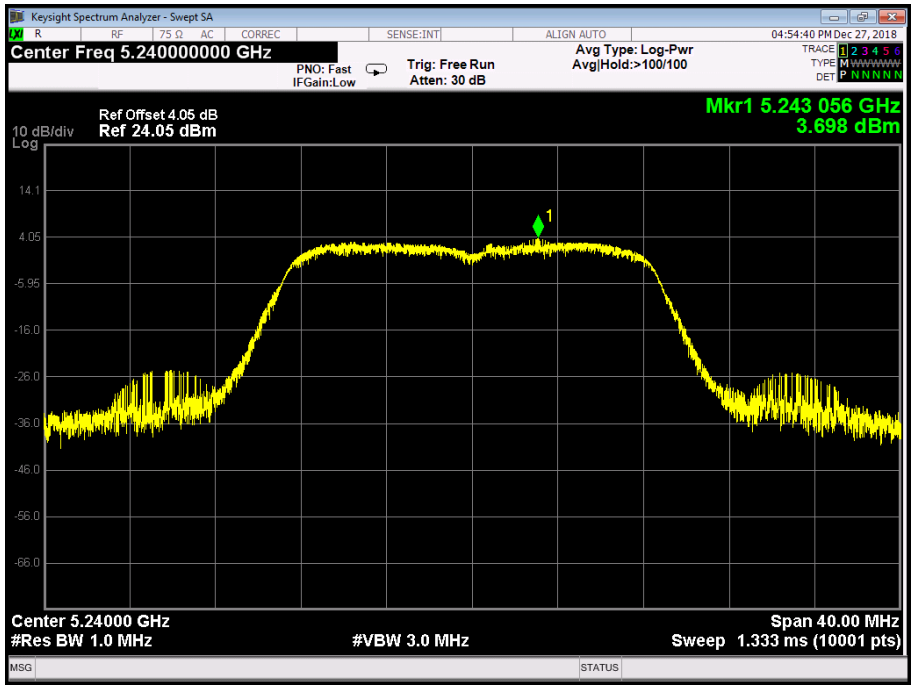
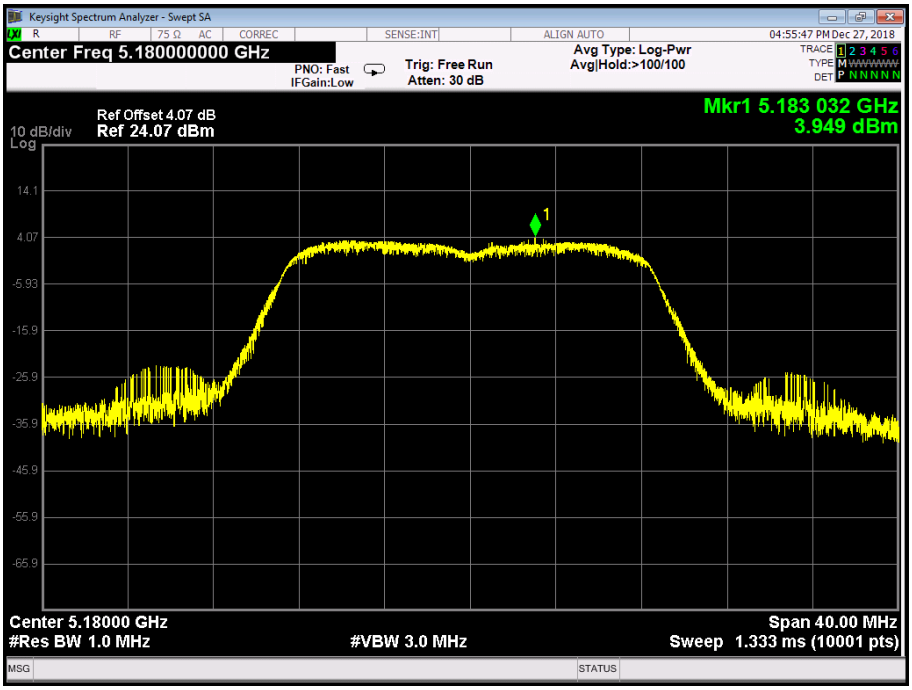
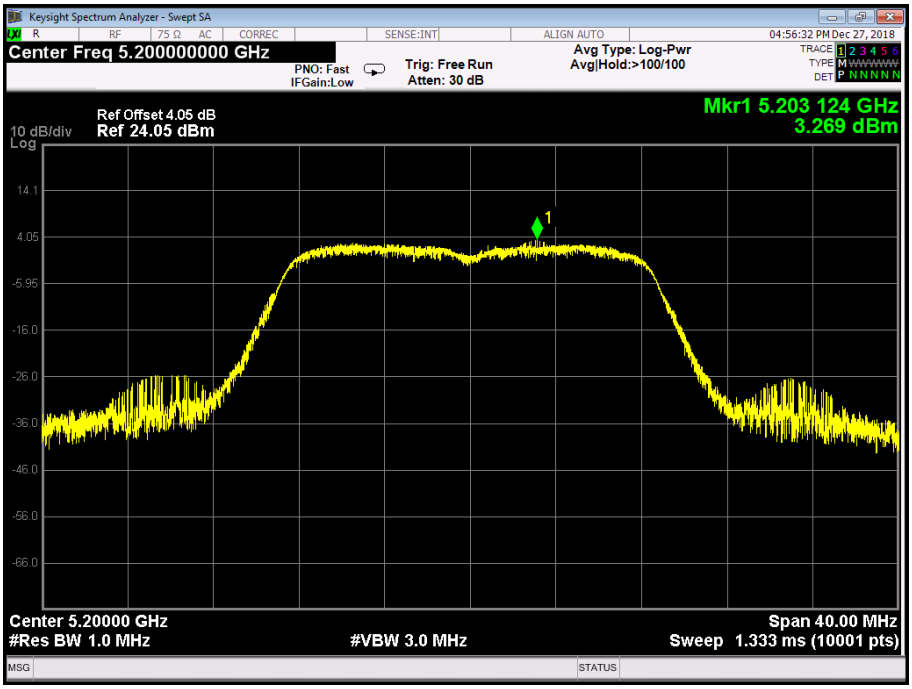
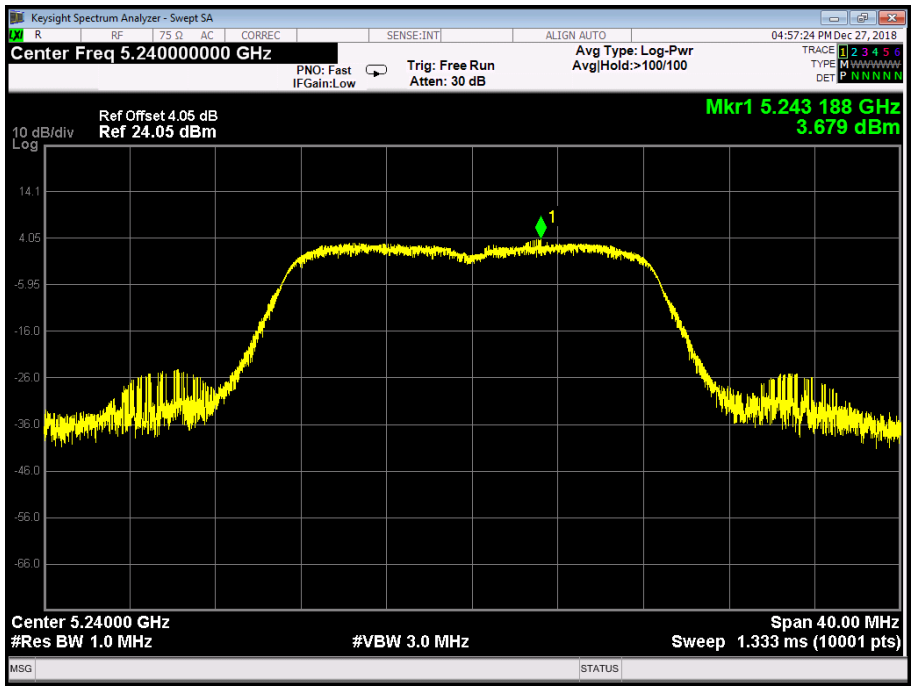
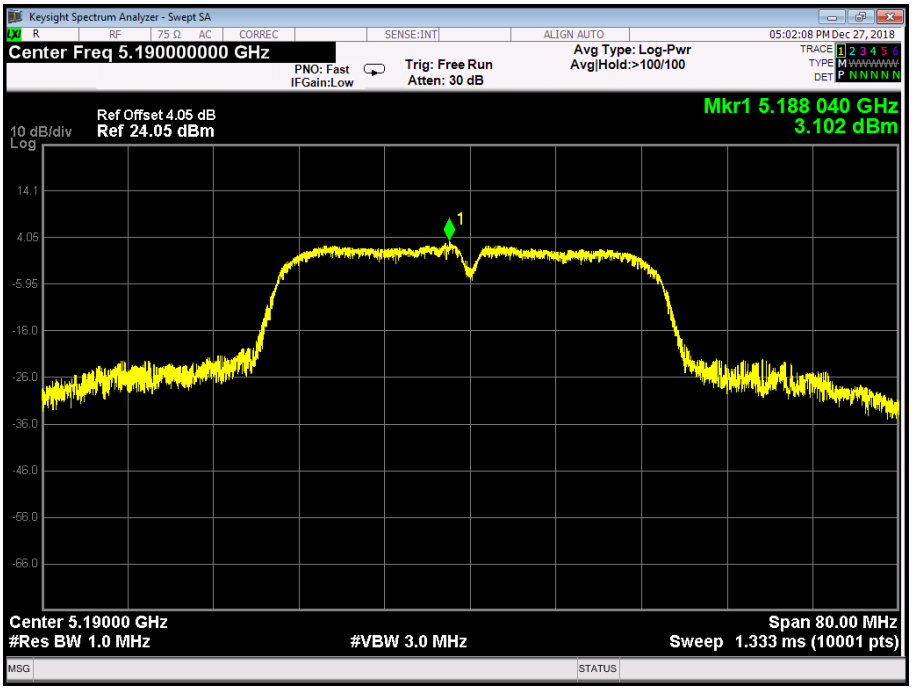
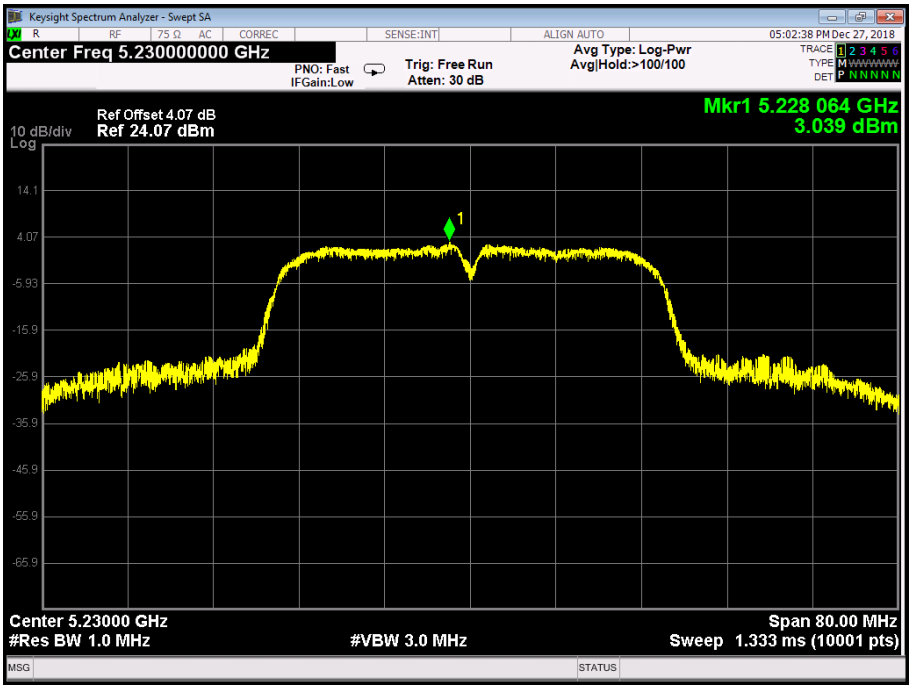
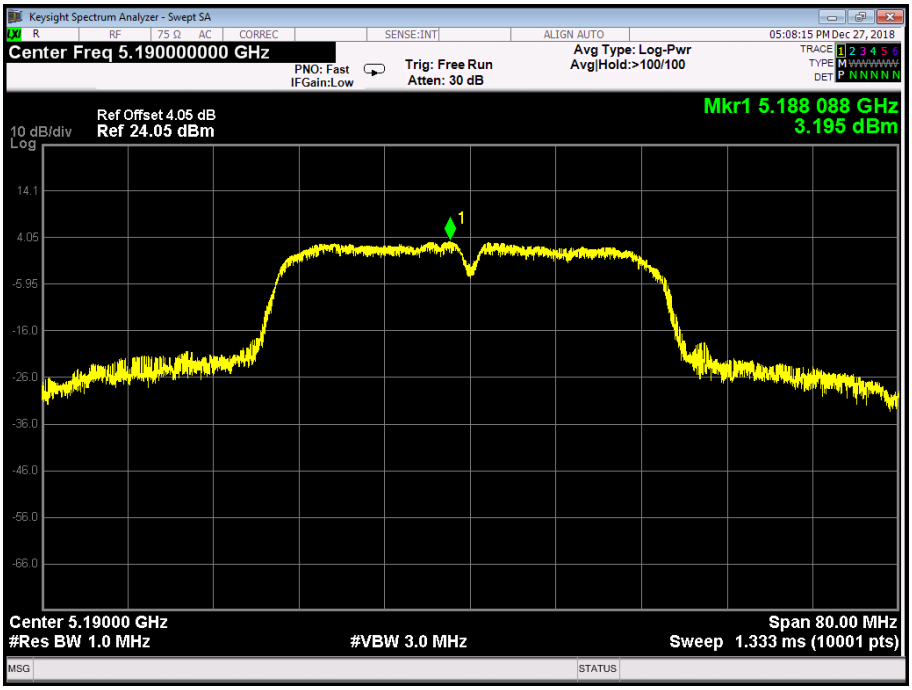
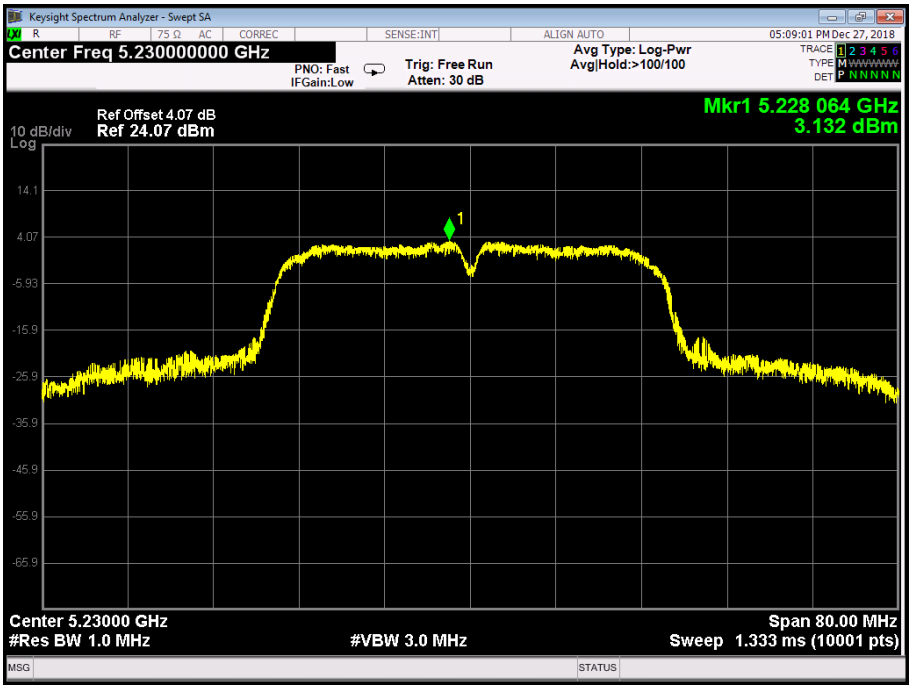

802.11 n(20) 5240 MHz

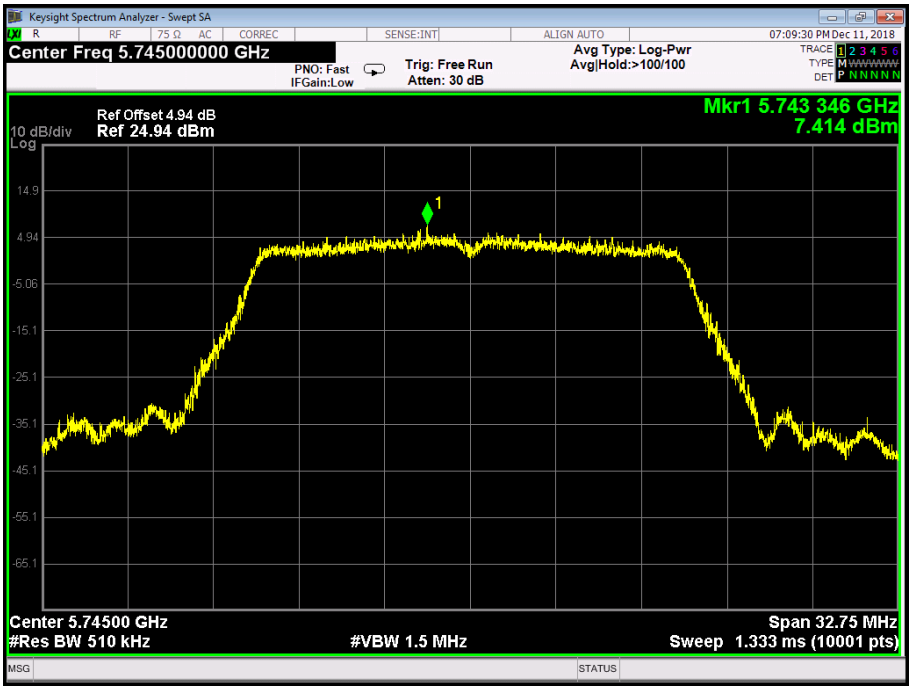
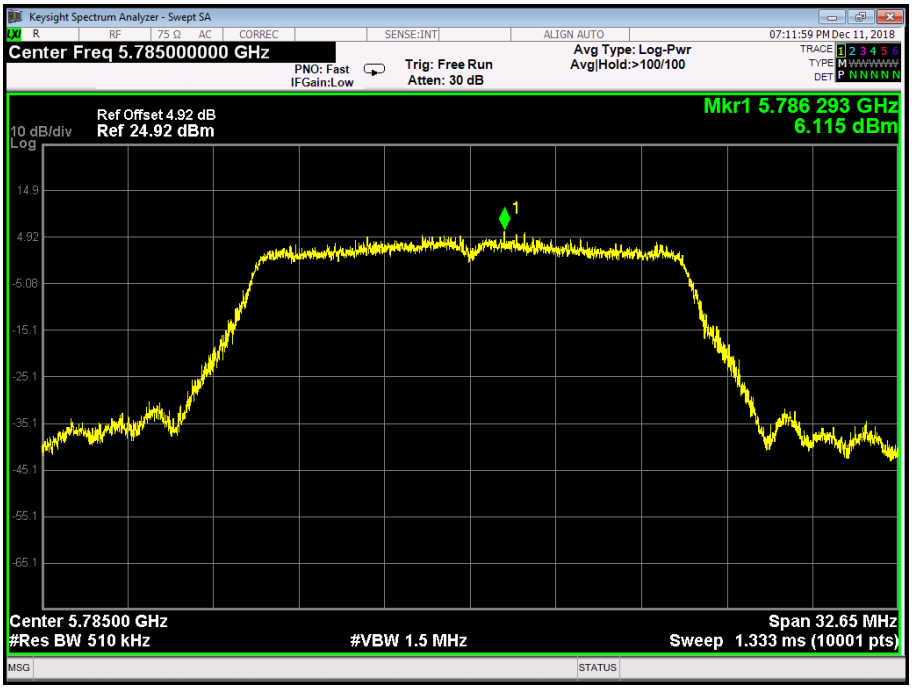

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:54:40 PM Dec 27, 2018
Ref Offset 4.05 dB
10 dB/div
Log
Ref 24.05 dBm
Mkr1 5.243 056 GHz
3.698 dBm
14.1
4.05
-5.95
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

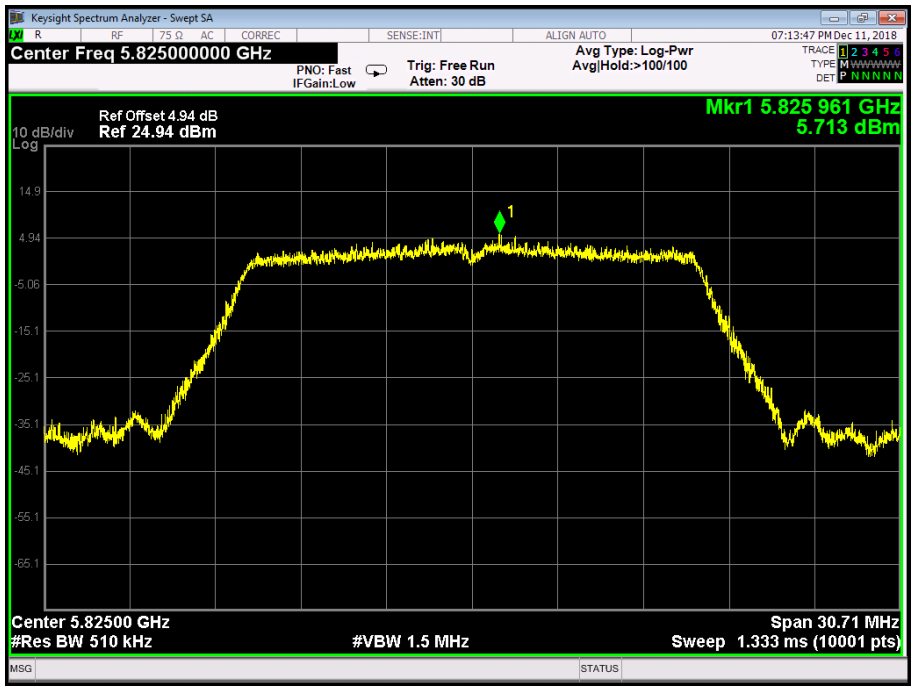
802.11 ac(VHT20) 5180 MHz

802.11 ac(VHT20) 5200 MHz

802.11 ac(VHT20) 5240 MHz

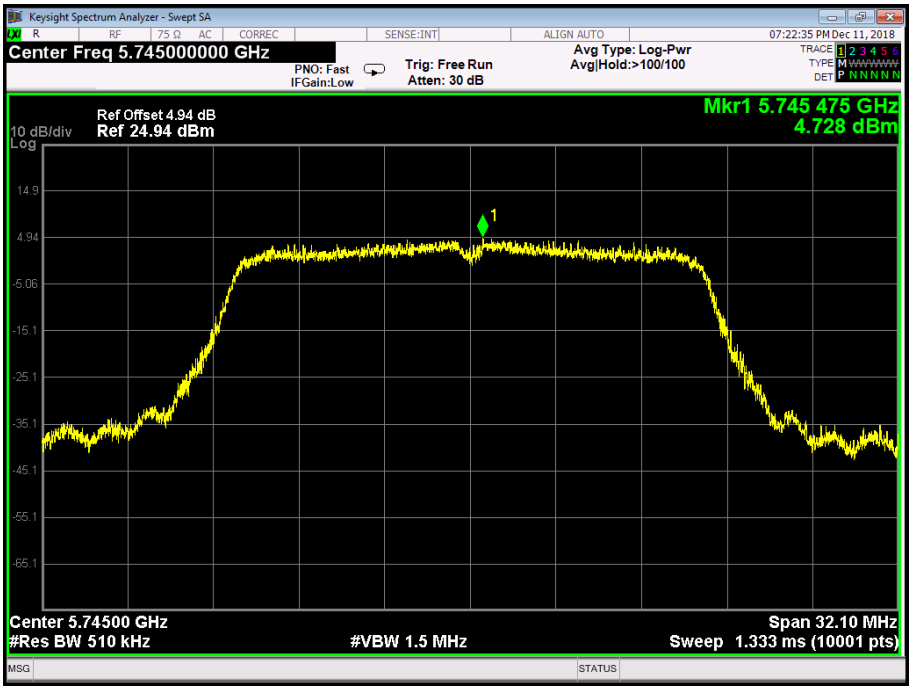
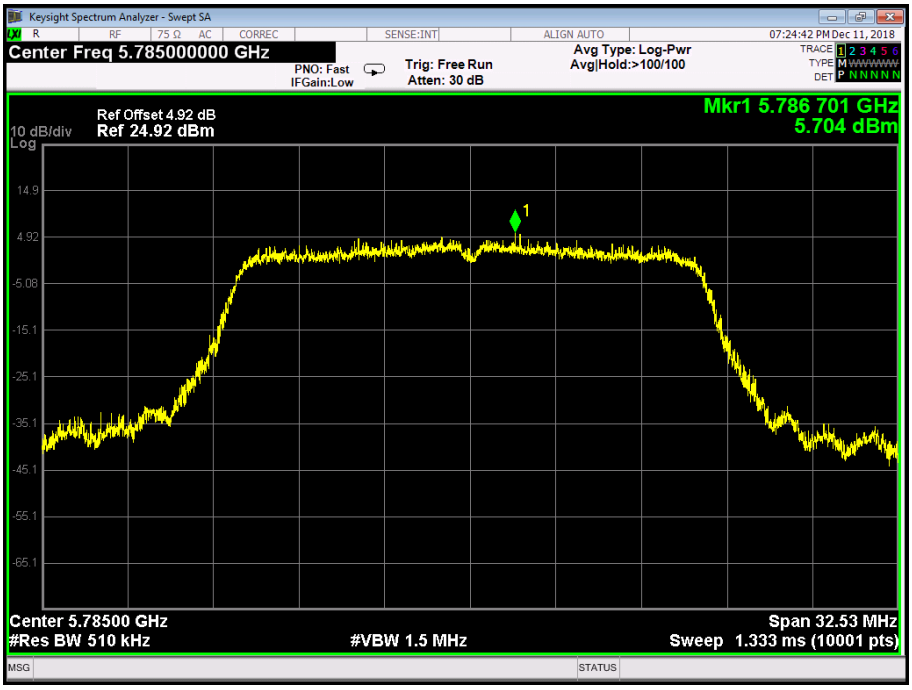

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:57:24 PM Dec 27, 2018
Ref Offset 4.05 dB
10 dB/div
Log
Ref 24.05 dBm
Mkr1 5.243 188 GHz
3.679 dBm
14.1
4.05
-5.95
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

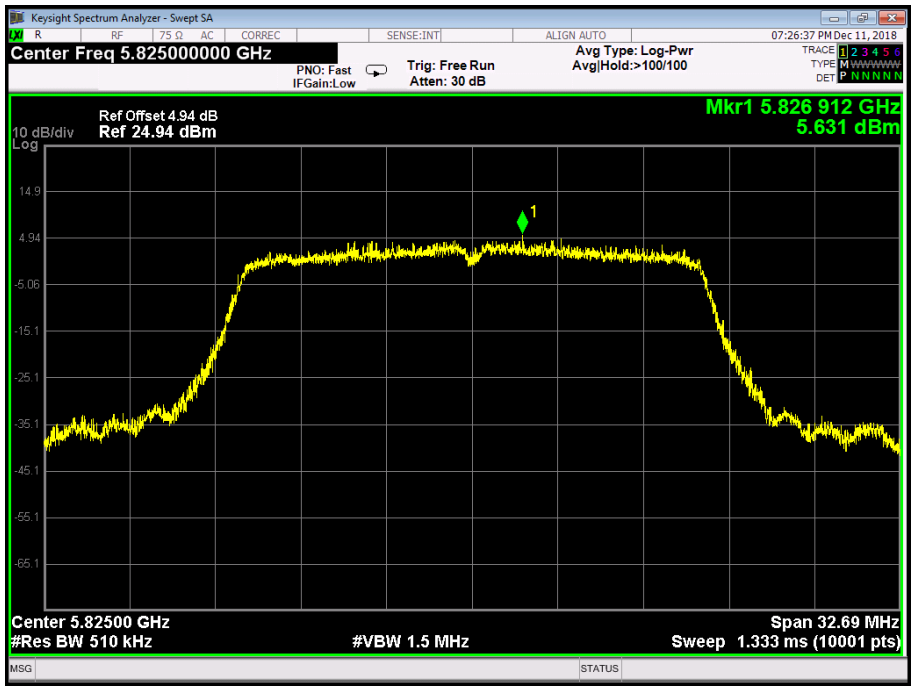
802.11 n(40) 5190 MHz

802.11 n(40) 5230 MHz


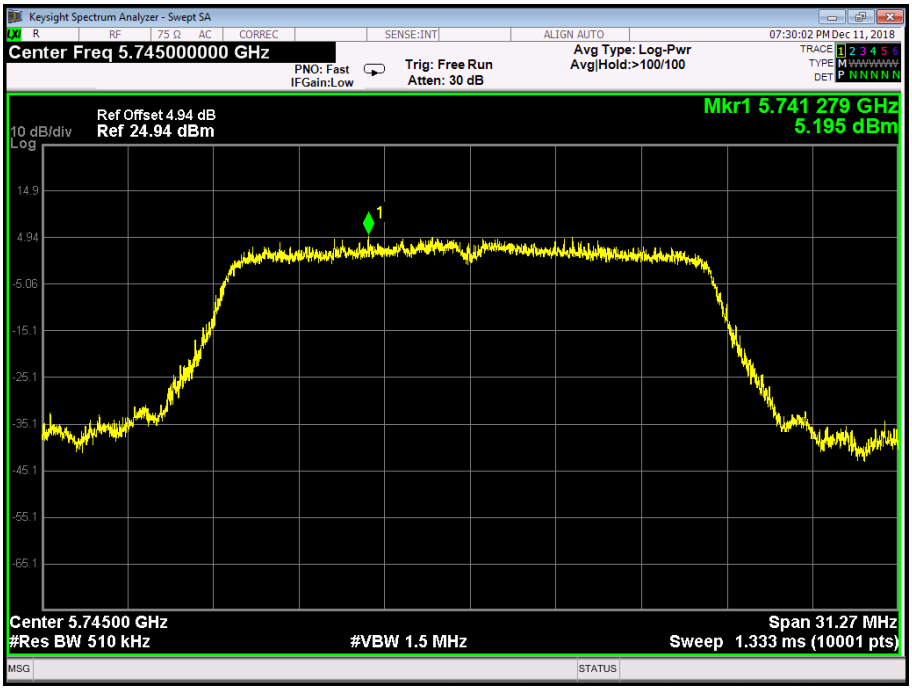
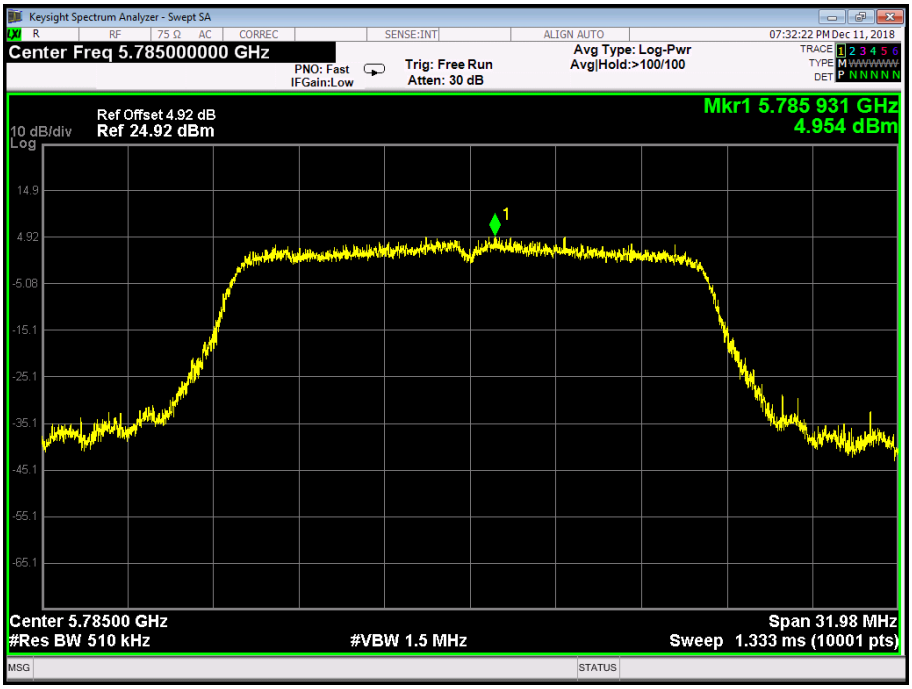
802.11 ac(VHT40) 5190 MHz

802.11 ac(VHT40) 5230 MHz


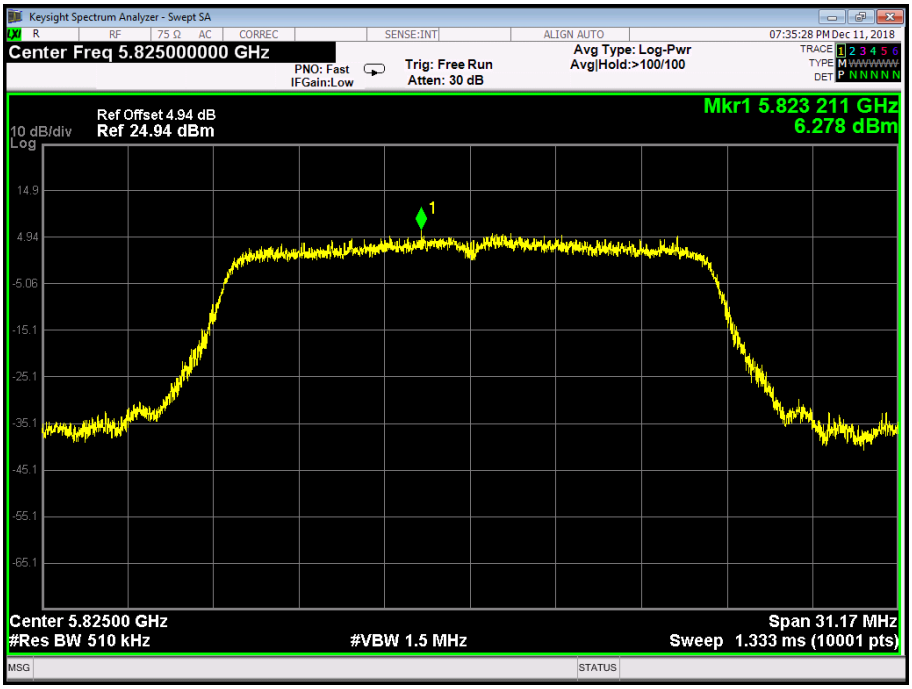
802.11 a 5745 MHz

802.11 a 5785 MHz

802.11 a 5825 MHz

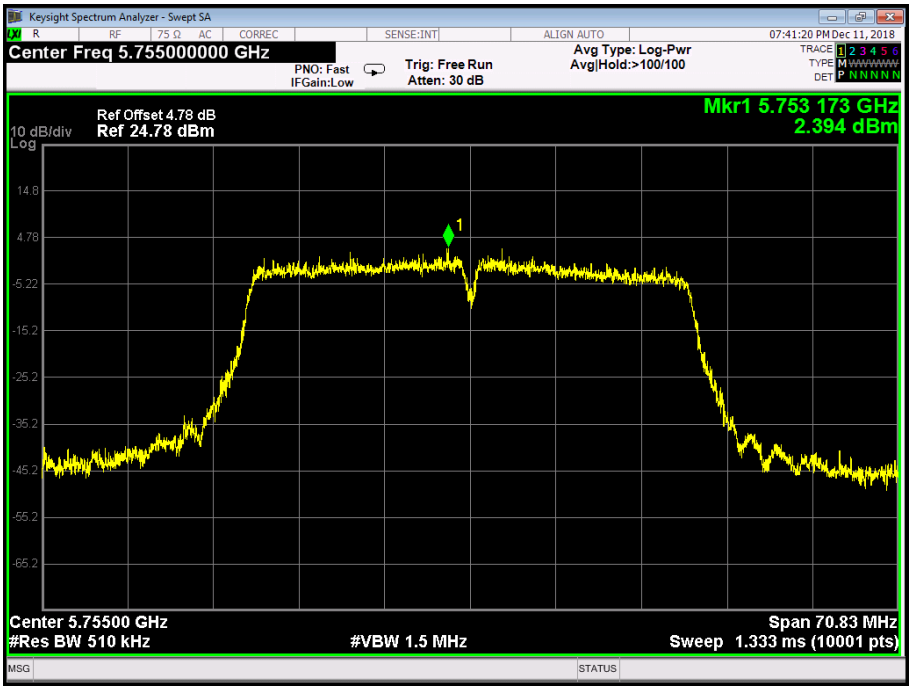
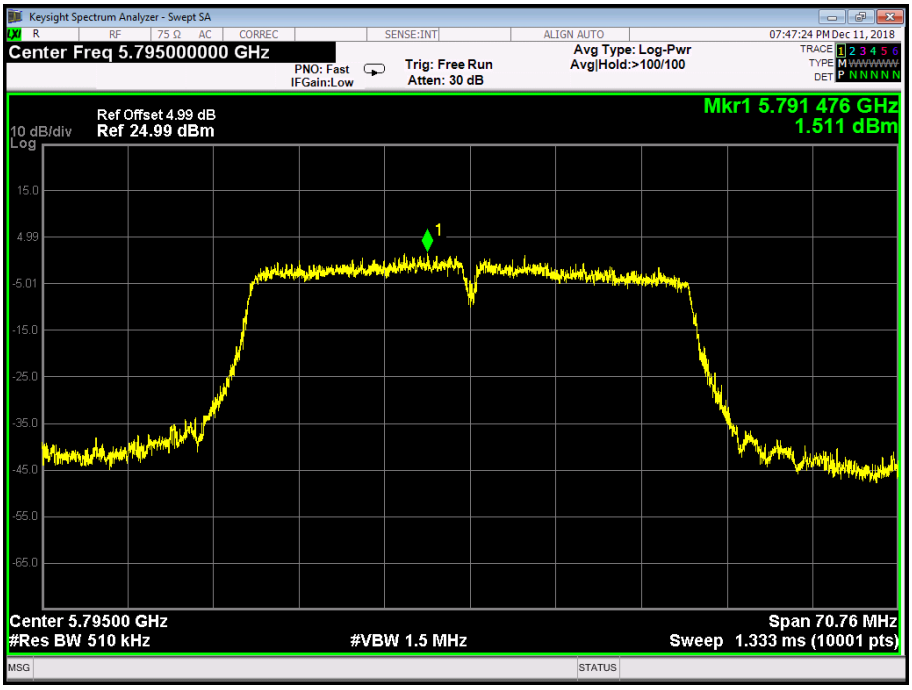

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:13:47 PM Dec 11, 2018
Ref Offset 4.94 dB
10 dB/div
Log
Ref 24.94 dBm
Mkr1 5.825 961 GHz
5.713 dBm
14.9
4.94
-5.06
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30.71 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

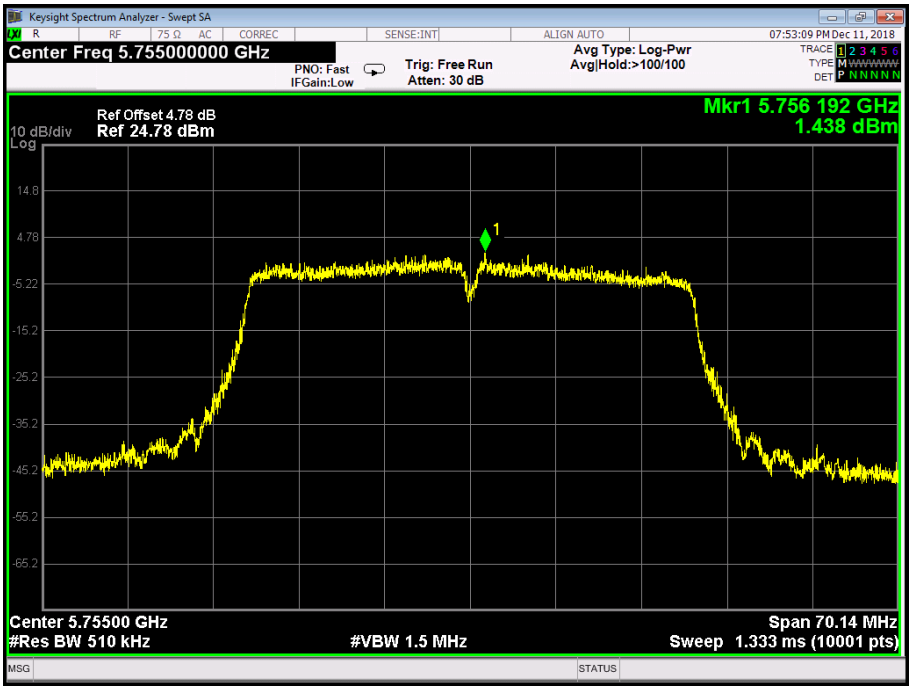
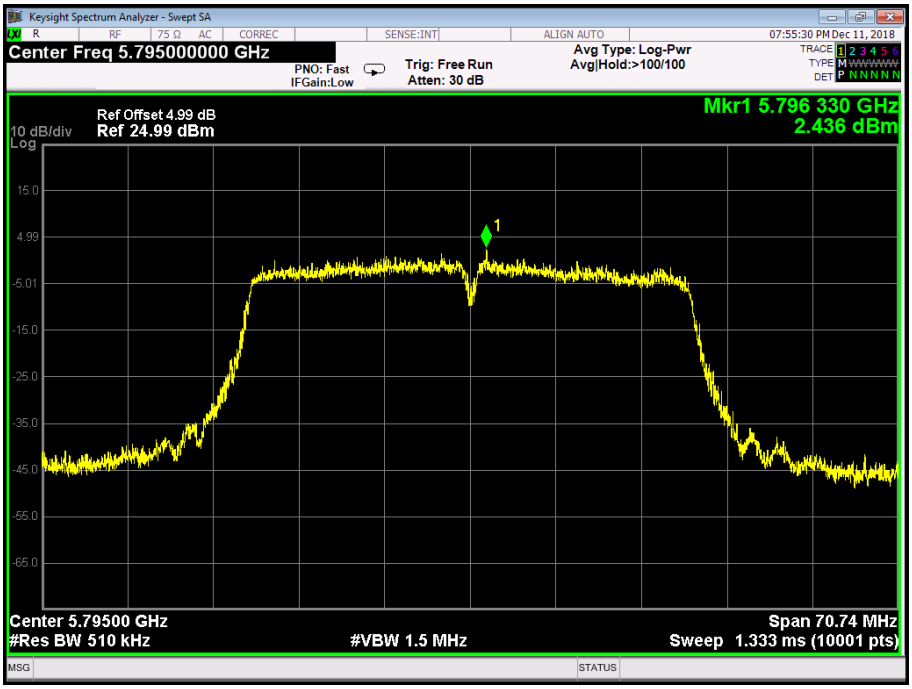
802.11 n(20) 5745 MHz

802.11 n(20) 5785 MHz

802.11 n(20) 5825 MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:26:37 PM Dec 11, 2018
Ref Offset 4.94 dB
10 dB/div
Log
Ref 24.94 dBm
Mkr1 5.826 912 GHz
5.631 dBm
14.9
4.94
-5.06
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 32.69 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

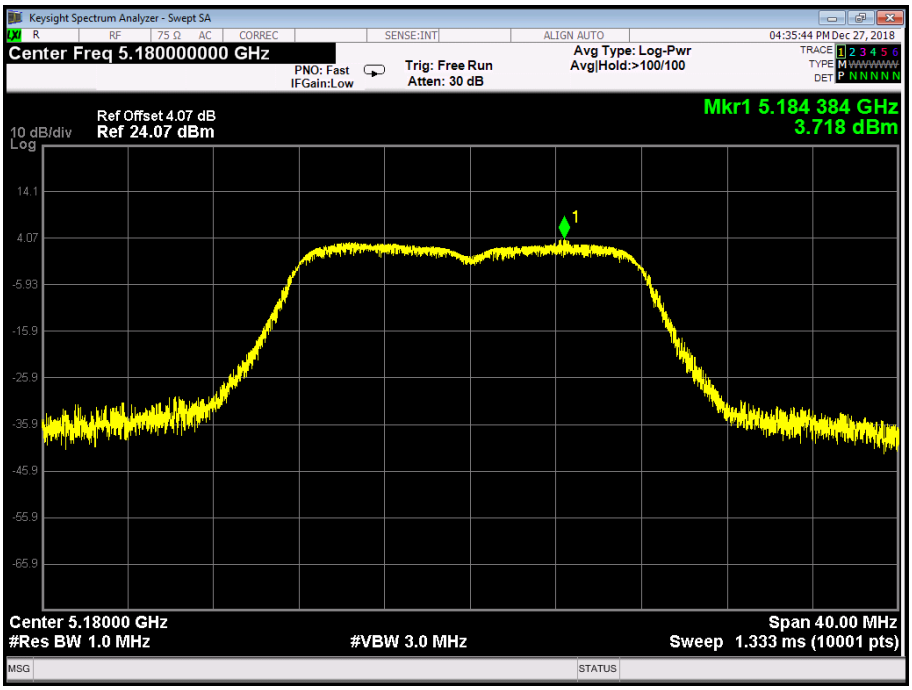
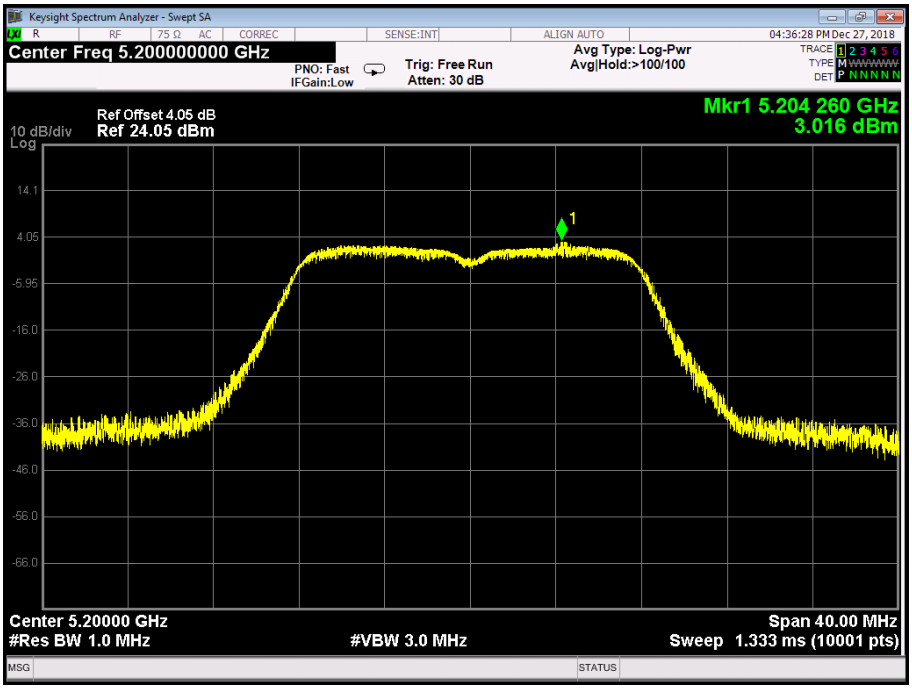
802.11 ac(VHT20) 5745 MHz

802.11 ac(VHT20) 5785 MHz

802.11 ac(VHT20) 5825 MHz

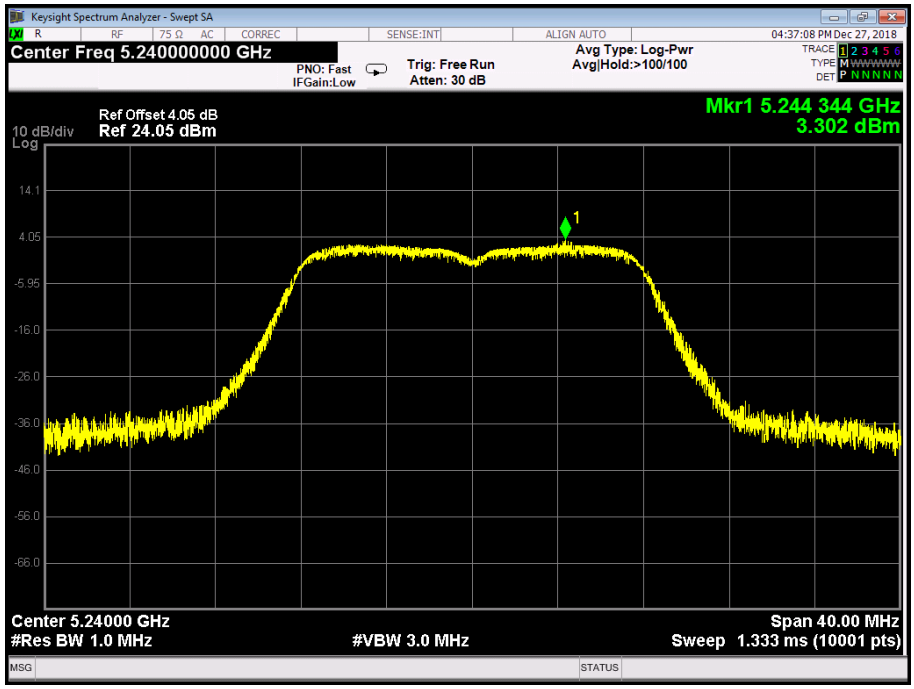

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
07:35:28 PM Dec 11, 2018
Ref Offset 4.94 dB
10 dB/div
Log
Ref 24.94 dBm
Mkr1 5.823 211 GHz
6.278 dBm
14.9
4.94
-5.06
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 31.17 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

802.11 n(40) 5755 MHz

802.11 n(40) 5795 MHz


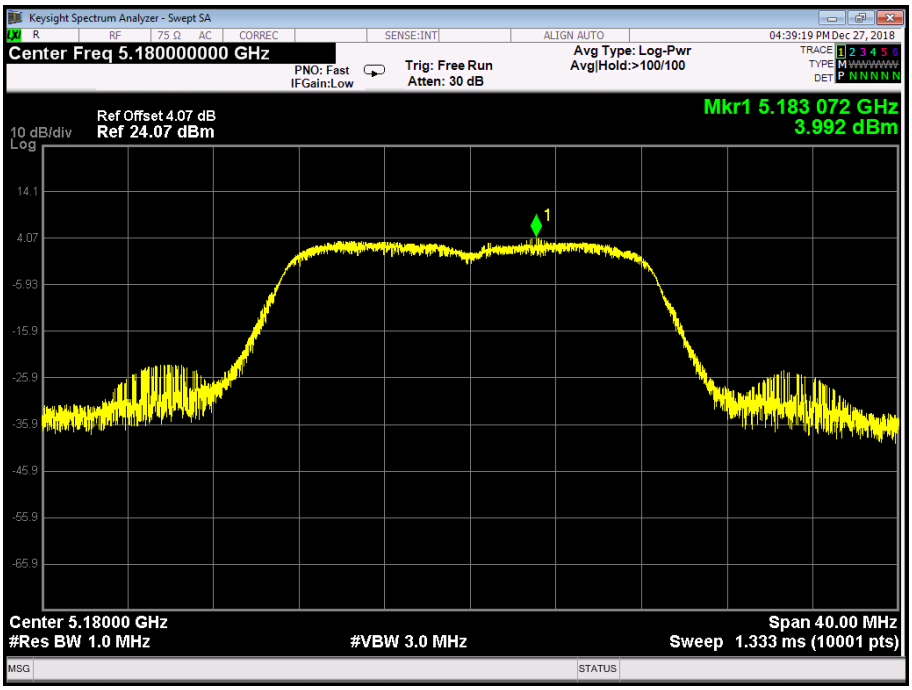
802.11 ac(VHT40) 5755 MHz

802.11 ac(VHT40) 5795 MHz


ANT 1:

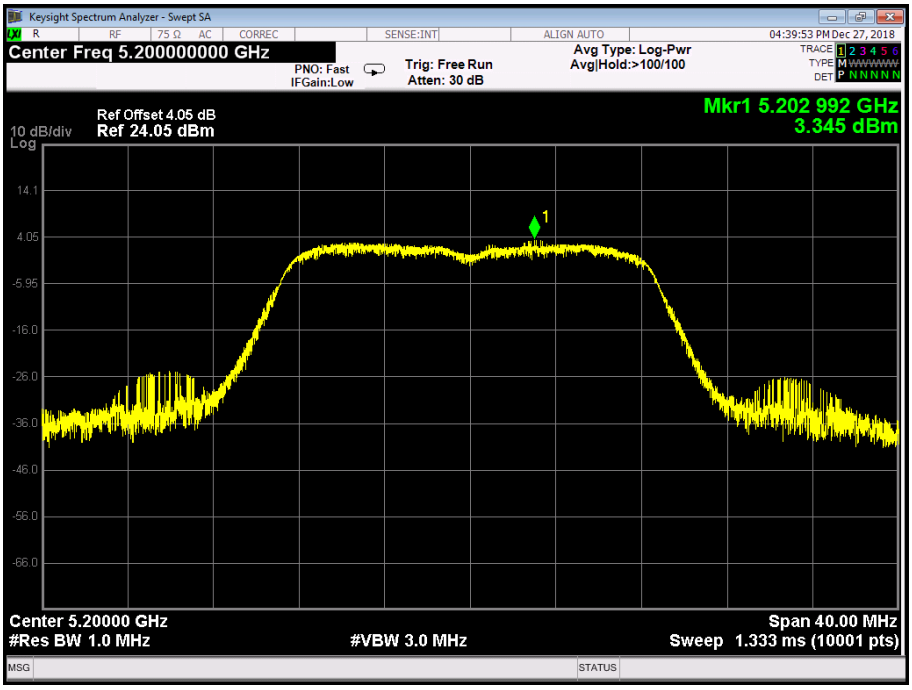
802.11 a 5180 MHz

802.11 a 5200 MHz

802.11 a 5240 MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:37:08 PM Dec 27, 2018
Ref Offset 4.05 dB
10 dB/div
Log
Ref 24.05 dBm
Mkr1 5.244 344 GHz
3.302 dBm
14.1
4.05
-5.95
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

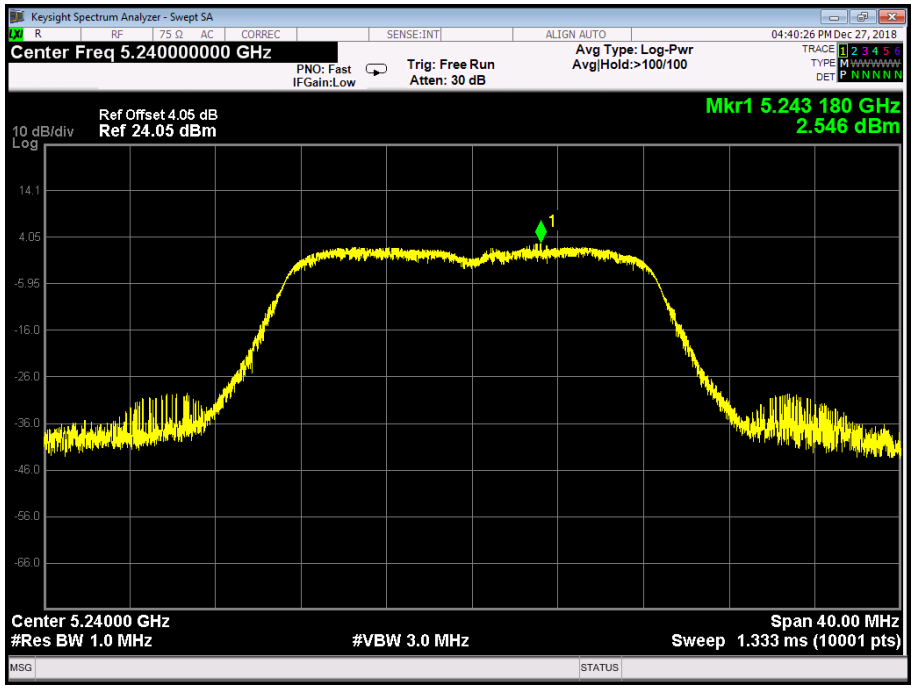
802.11 n(20) 5180 MHz

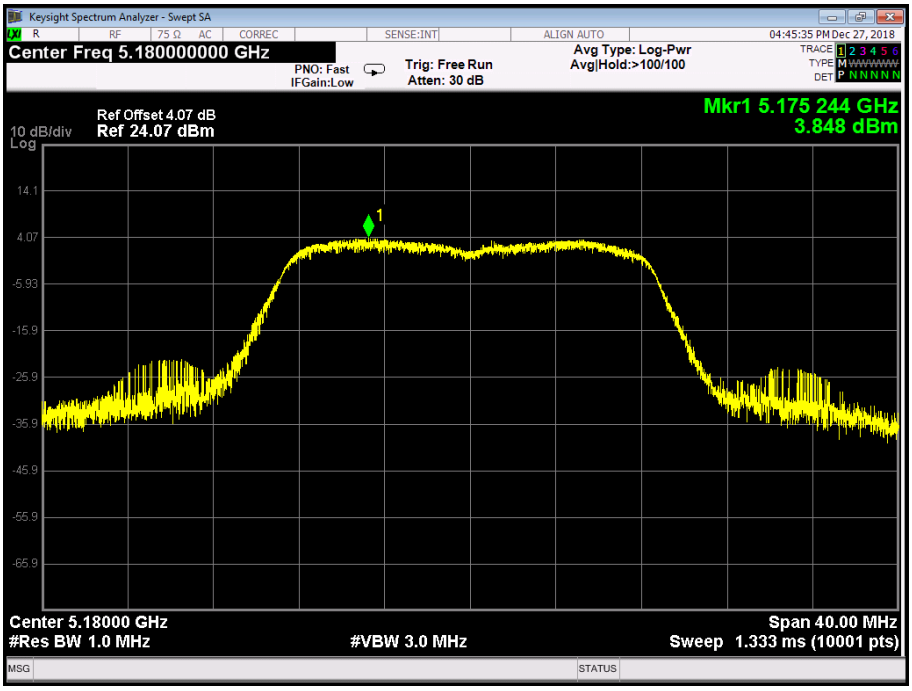
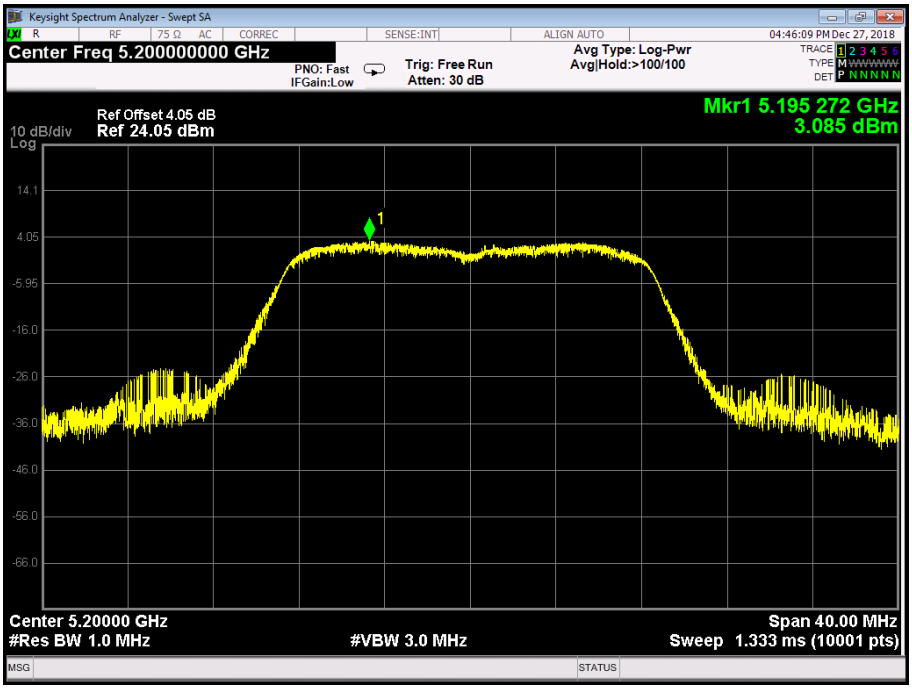


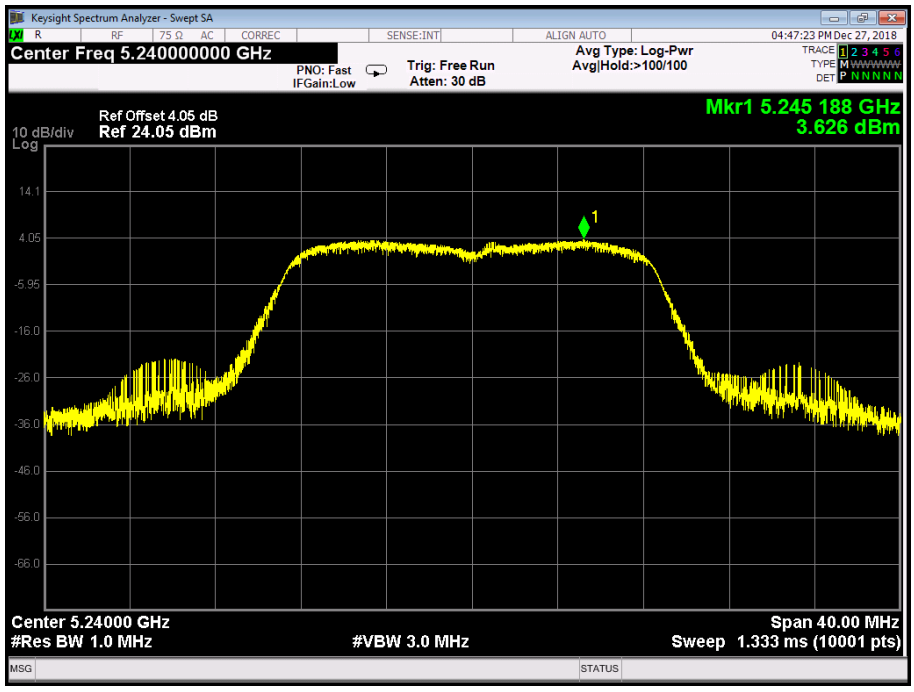
802.11 n(20) 5200 MHz

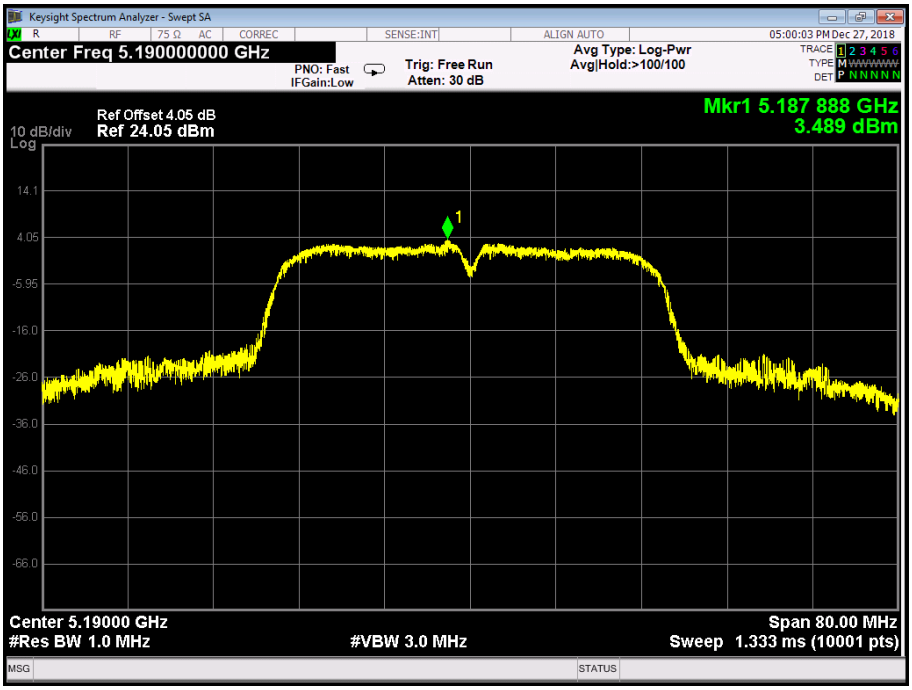
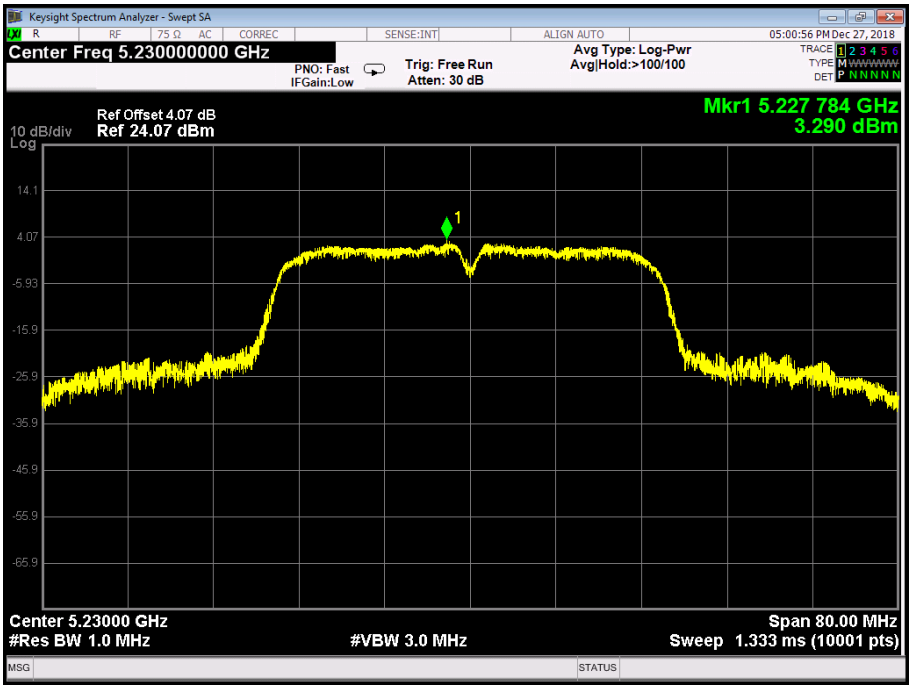


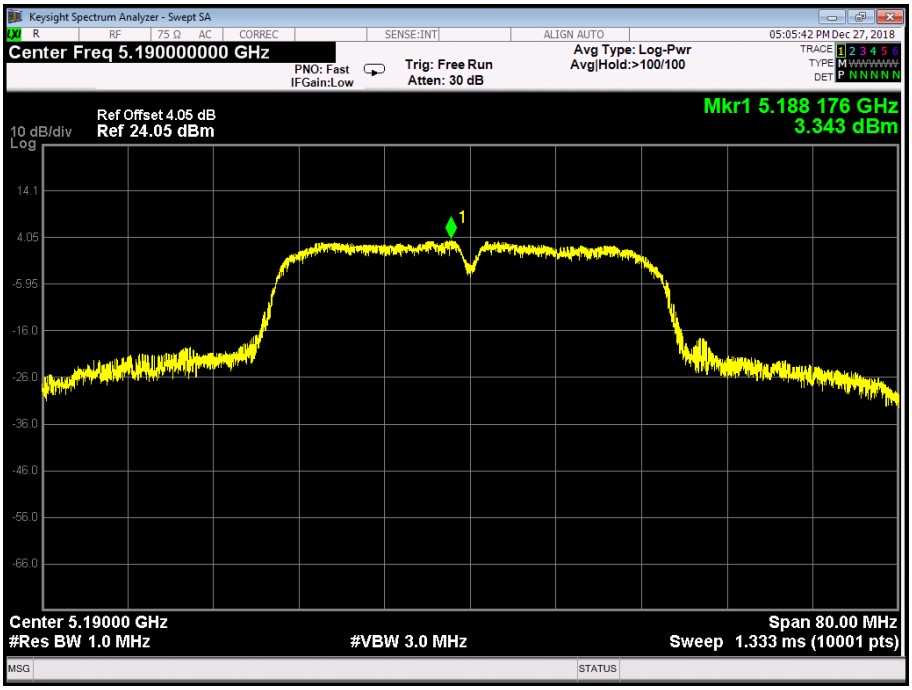
802.11 n(20) 5240 MHz

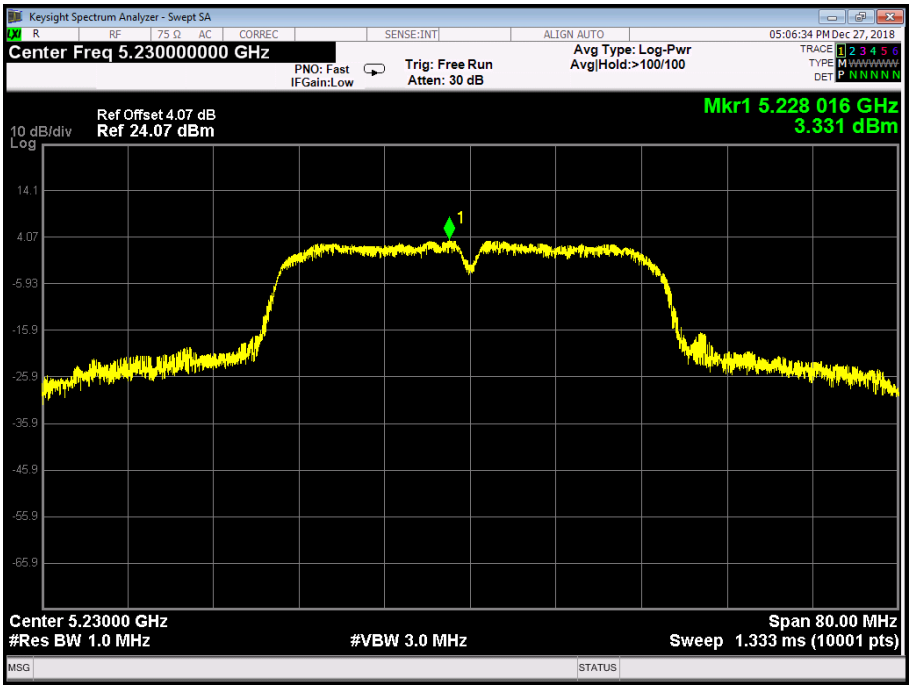

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:40:26 PM Dec 27, 2018
Ref Offset 4.05 dB
10 dB/div
Log
Ref 24.05 dBm
Mkr1 5.243 180 GHz
2.546 dBm
14.1
4.05
-5.95
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

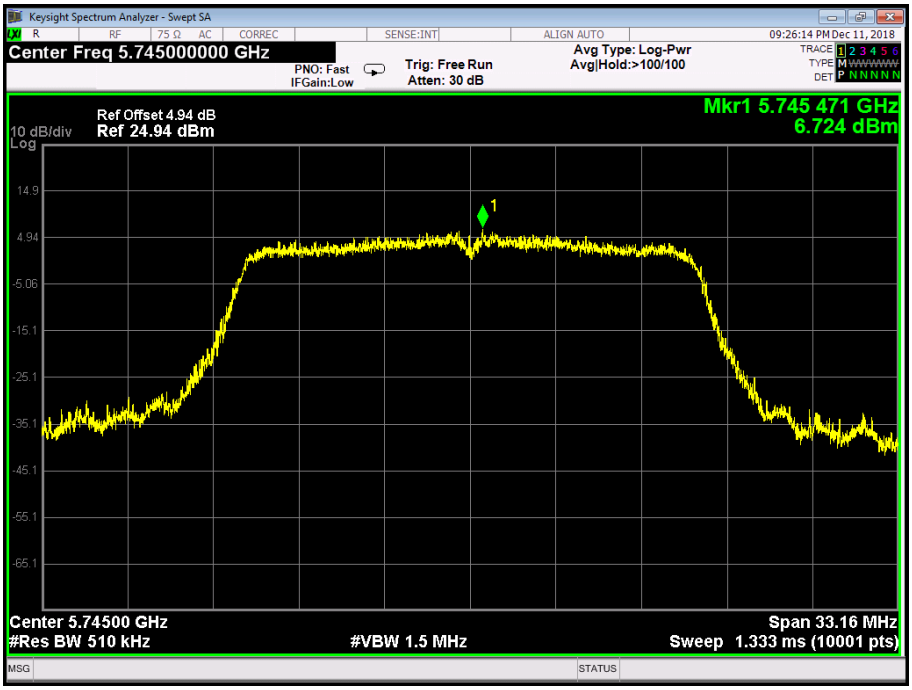
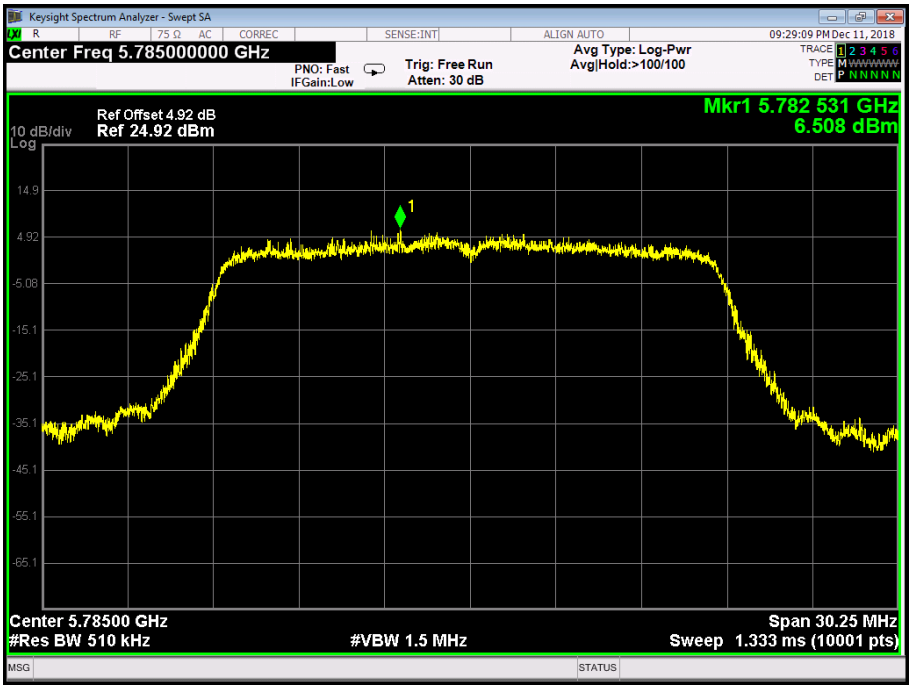
802.11 ac(VHT20) 5180 MHz

802.11 ac(VHT20) 5200 MHz

802.11 ac(VHT20) 5240 MHz

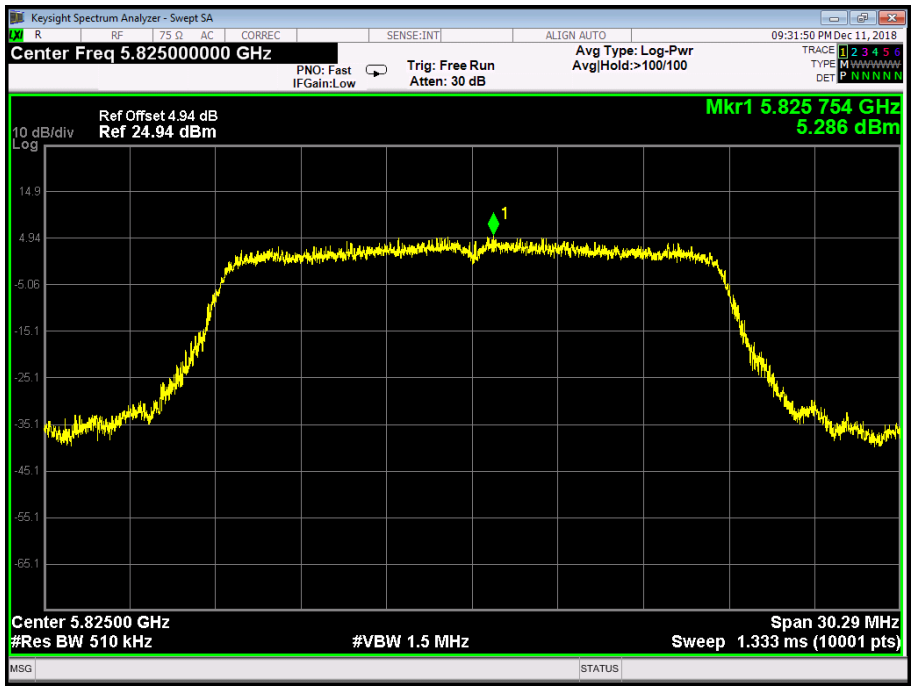

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.240000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:47:23 PM Dec 27, 2018
Ref Offset 4.05 dB
10 dB/div
Log
Ref 24.05 dBm
Mkr1 5.245 188 GHz
3.626 dBm
14.1
4.05
-5.95
-16.0
-26.0
-36.0
-46.0
-56.0
-66.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 40.00 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

802.11 n(40) 5190 MHz

802.11 n(40) 5230 MHz


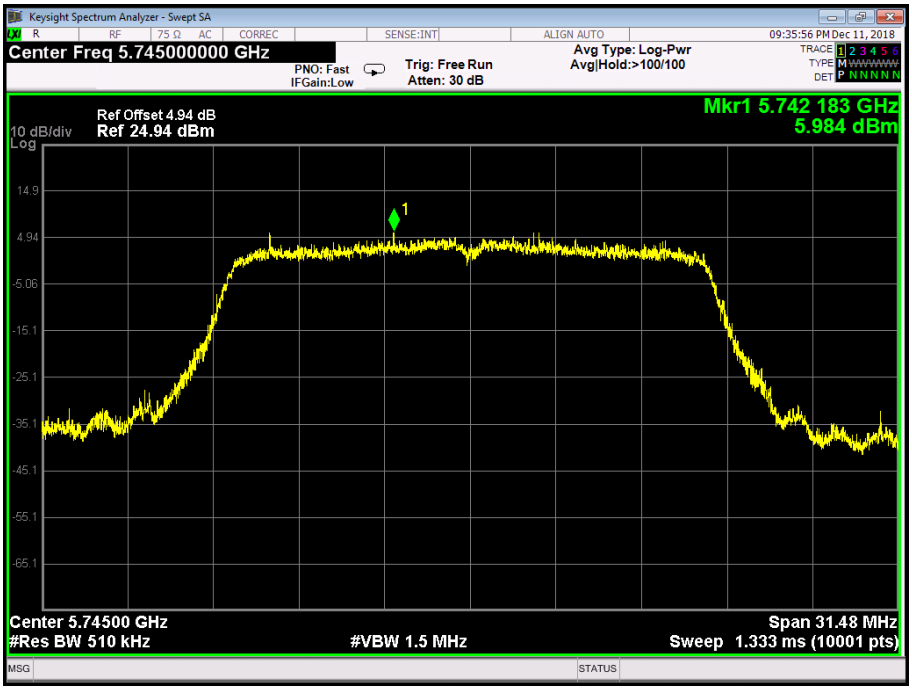
802.11 ac(VHT40) 5190 MHz


802.11 ac(VHT40) 5230 MHz


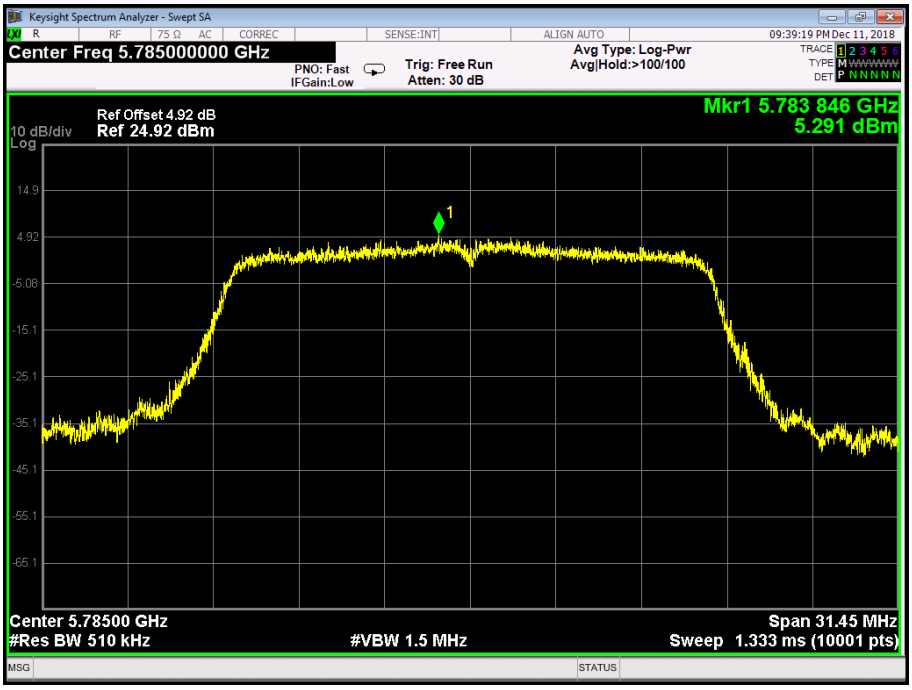
802.11 a 5745 MHz

802.11 a 5785 MHz

802.11 a 5825 MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:31:50 PM Dec 11, 2018
Ref Offset 4.94 dB
10 dB/div
Log
Ref 24.94 dBm
Mkr1 5.825 754 GHz
5.286 dBm
14.9
4.94
-5.06
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30.29 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

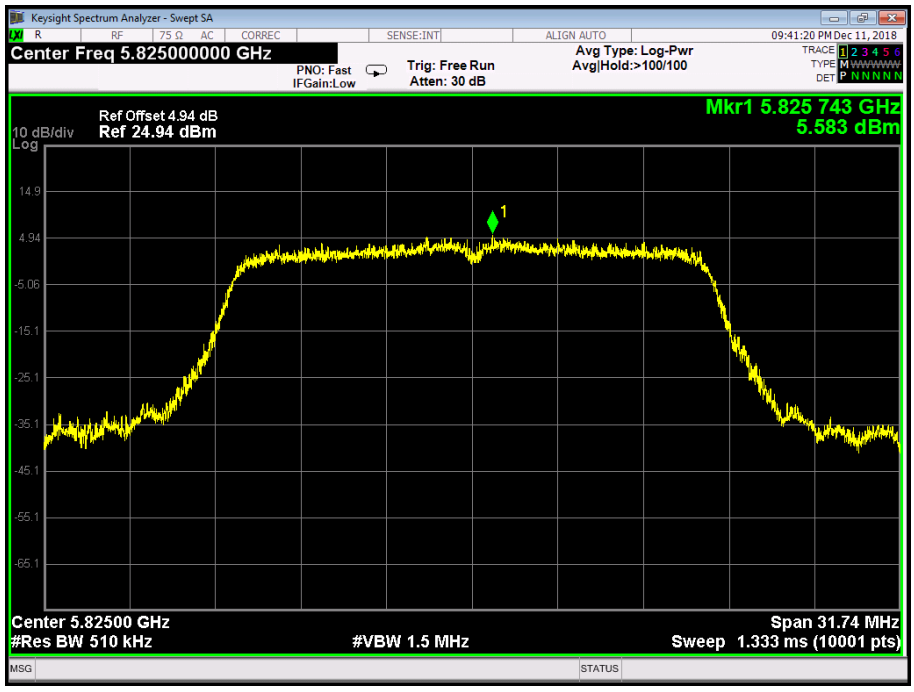
802.11 n(20) 5745 MHz

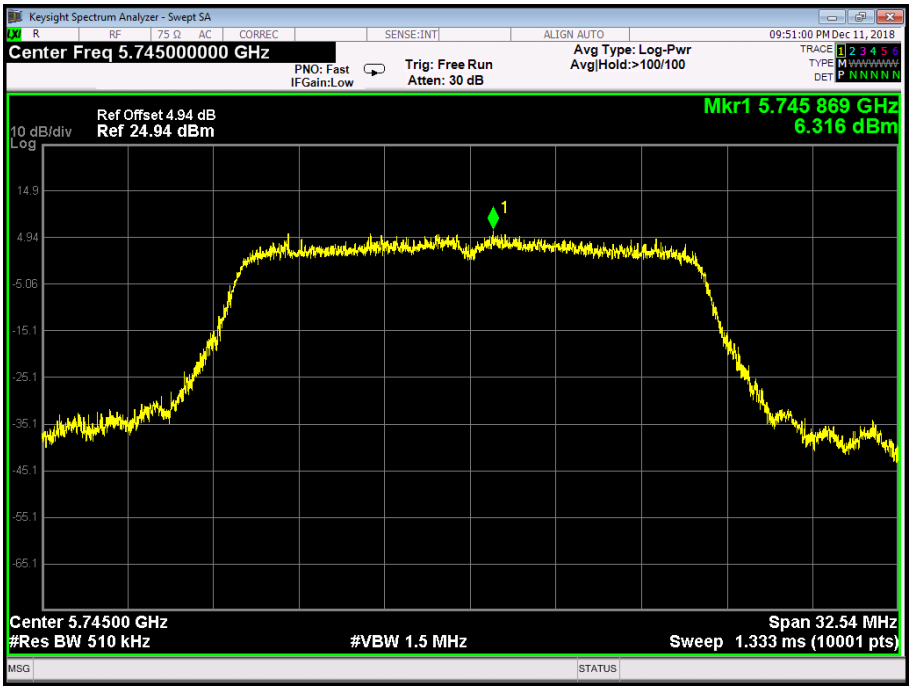
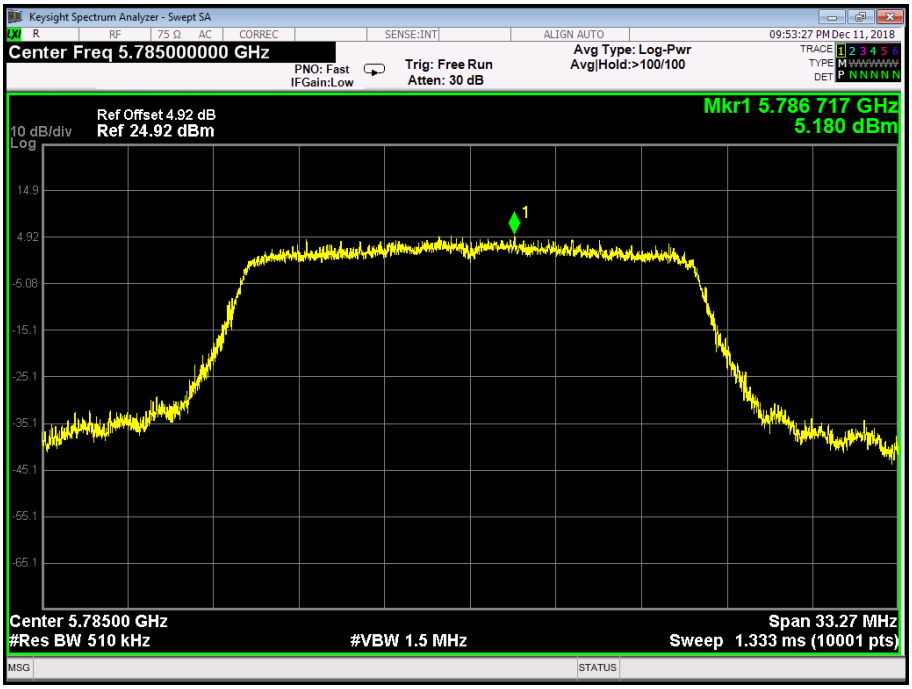


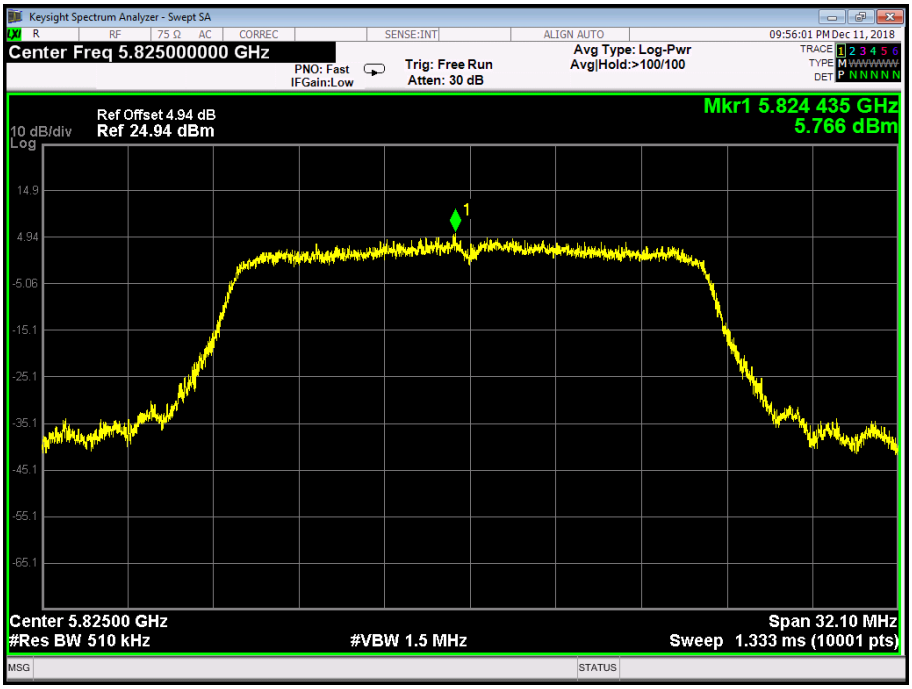
802.11 n(20) 5785 MHz

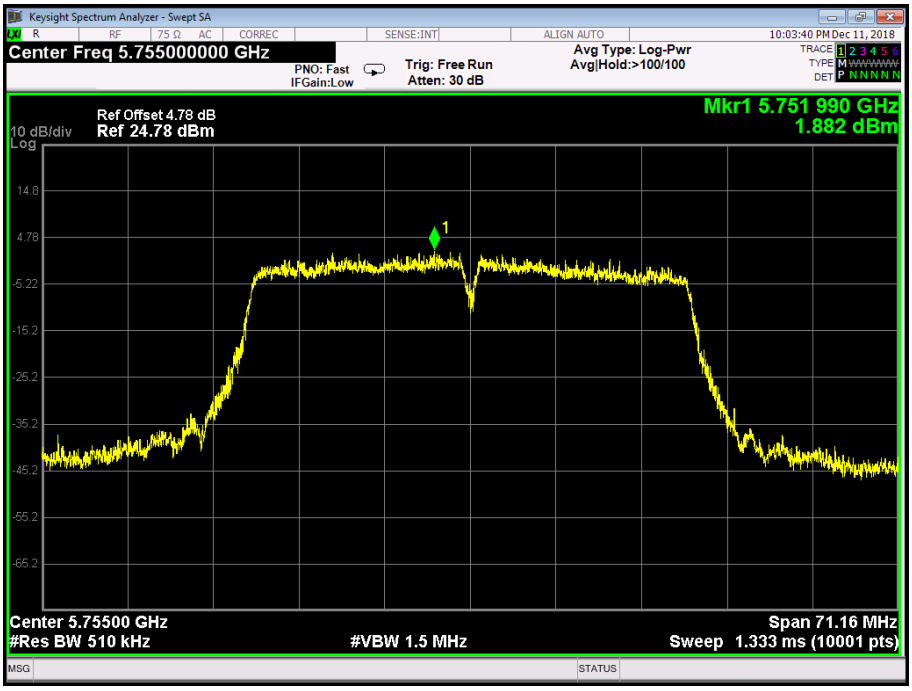
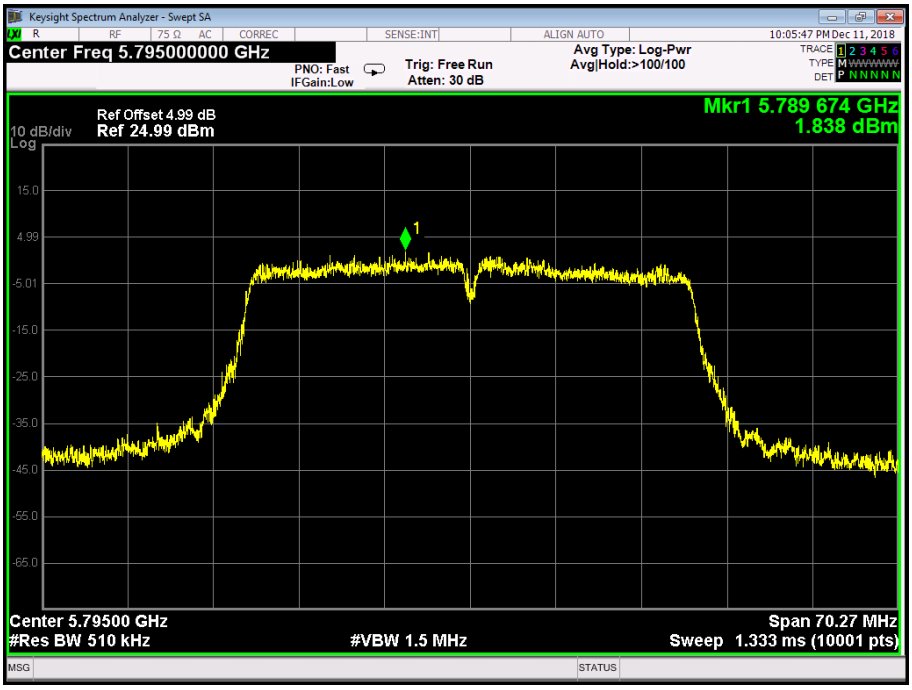


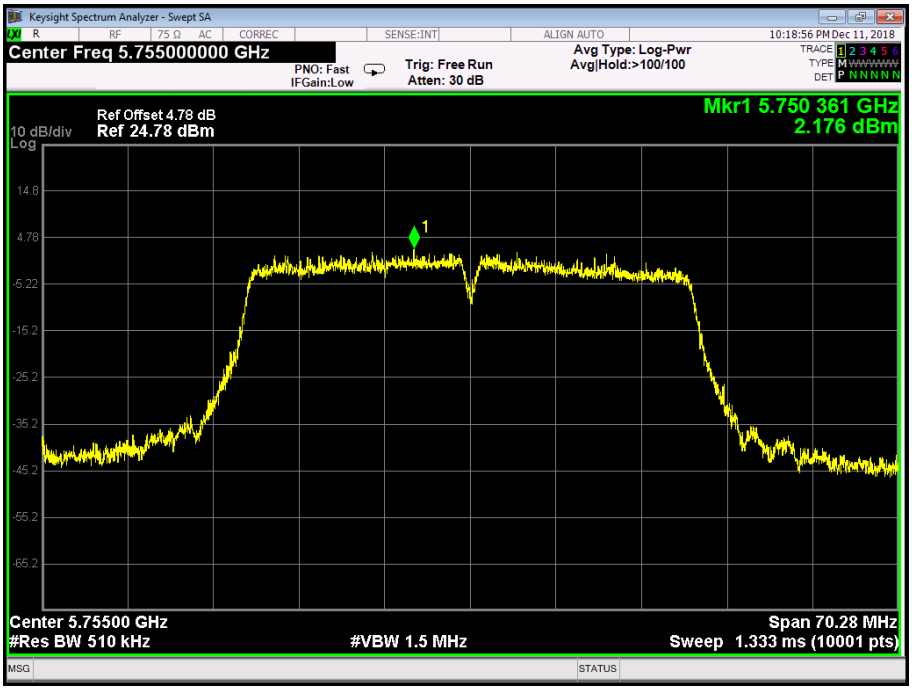
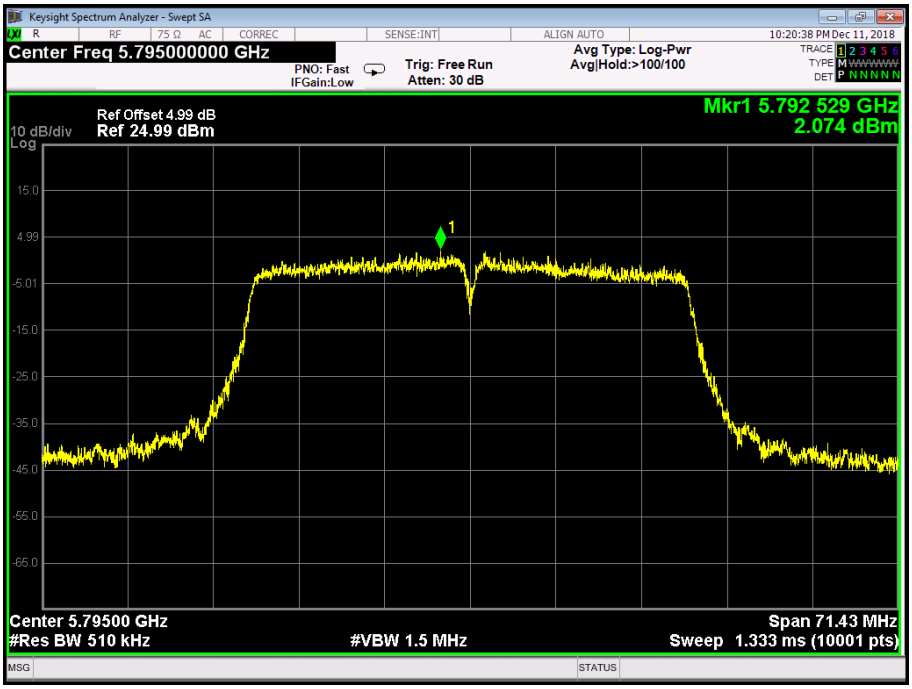
802.11 n(20) 5825 MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:41:20 PM Dec 11, 2018
Ref Offset 4.94 dB
10 dB/div
Log
Ref 24.94 dBm
Mkr1 5.825 743 GHz
5.583 dBm
14.9
4.94
-5.06
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 31.74 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

802.11 ac(VHT20) 5745 MHz

802.11 ac(VHT20) 5785 MHz

802.11 ac(VHT20) 5825 MHz


Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
09:56:01 PM Dec 11, 2018
Ref Offset 4.94 dB
10 dB/div
Log
Ref 24.94 dBm
Mkr1 5.824 435 GHz
5.766 dBm
14.9
4.94
-5.06
-15.1
-25.1
-35.1
-45.1
-55.1
-65.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 32.10 MHz
Sweep 1.333 ms (10001 pts)

802.11 n(40) 5755 MHz

802.11 n(40) 5795 MHz


802.11 ac(VHT40) 5755 MHz

802.11 ac(VHT40) 5795 MHz


Attachment G-- Frequency Stability Measurement Test Data

ANT 0:

801.11a U-NII-1: 5180 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
240	5179.9926
120	5179.9954
100	5179.9975
Max. Deviation (MHz)	0.0074
Max. Deviation (ppm)	-1.42
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5179.9928
10	5179.9947
20	5179.9966
30	5179.9973
40	5179.9978
50	5179.9988
Max. Deviation (MHz)	0.0072
Max. Deviation (ppm)	-1.38
Limit (ppm)	**20**
Result	**Pass**

Remark: Worst case at 802.11a U-NII-1 middle channel

ANT 1:

801.11a U-NII-1: 5180 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
240	5179.9936
120	5179.9951
100	5179.9947
Max. Deviation (MHz)	0.0064
Max. Deviation (ppm)	-1.24
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5179.9964
10	5179.9946
20	5179.9951
30	5179.9941
40	5179.9974
50	5179.9986
Max. Deviation (MHz)	0.0059
Max. Deviation (ppm)	-1.14
Limit (ppm)	**20**
Result	**Pass**

Remark: Worst case at 802.11a U-NII-1 middle channel

ANT 0 & ANT 1:

801.11a U-NII-3: 5745 MHz	
Voltage vs. Frequency Stability	
Voltage (V)	**Measurement Frequency (MHz)**
240	5745.0087
120	5745.0096
100	5745.0091
Max. Deviation (MHz)	0.0096
Max. Deviation (ppm)	1.67
Temperature vs. Frequency Stability	
Temperature (℃)	**Measurement Frequency (MHz)**
0	5745.0041
10	5745.0042
20	5745.0019
30	5745.0024
40	5745.0034
50	5745.0061
Max. Deviation (MHz)	0.0061
Max. Deviation (ppm)	1.06
Limit (ppm)	**20**
Result	**Pass**

Remark: Worst case at 802.11a U-NII-3 middle channel

-----END OF REPORT-----