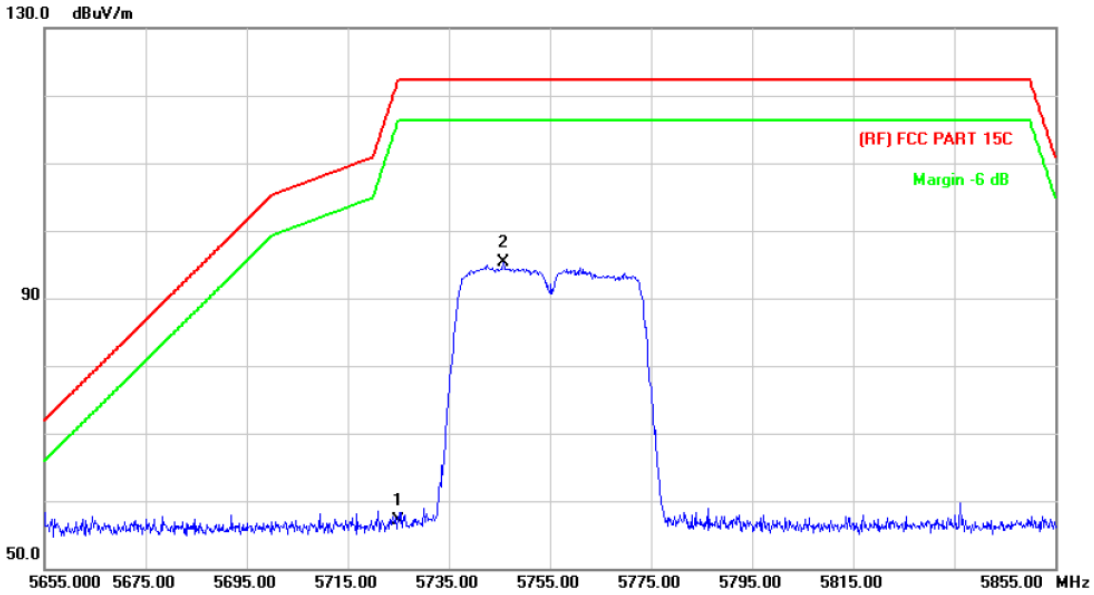
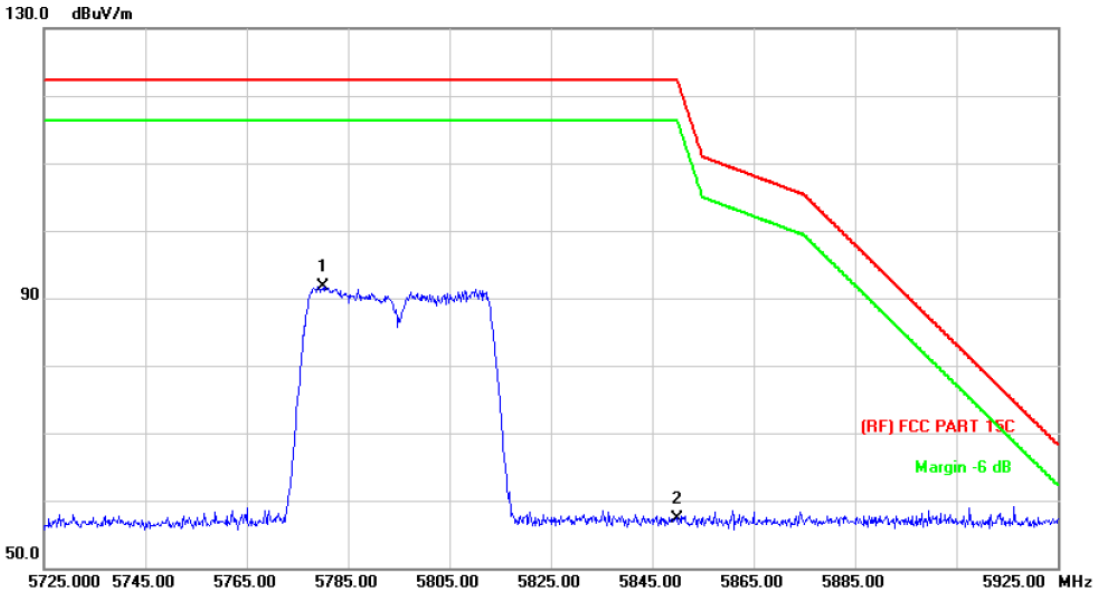
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT40) Mode 5755 MHz (U-NII-3)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		5725.000	47.23	9.78	57.01	122.30	-65.29	peak
2	*	5745.800	85.43	9.83	95.26	122.30	-27.04	peak

Emission Level= Read Level+ Correct Factor

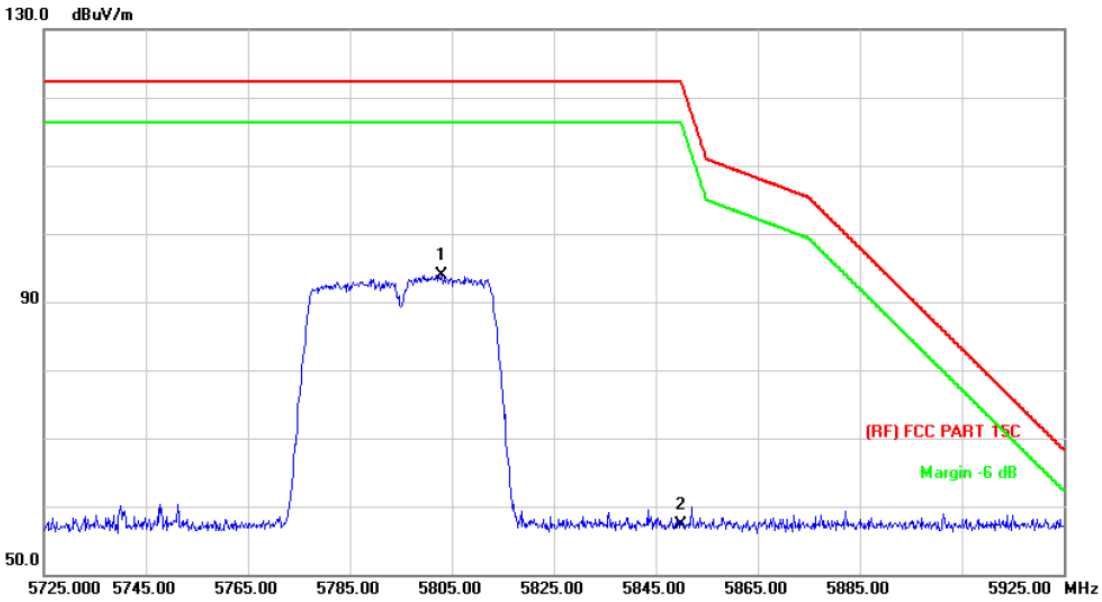
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11ac(VHT40) Mode 5795 MHz (U-NII-3)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	5780.200	81.79	9.93	91.72	122.30	-30.58	peak
2		5850.000	47.20	10.13	57.33	122.30	-64.97	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11ac(VHT40) Mode 5795 MHz (U-NII-3)		
Remark:	N/A		

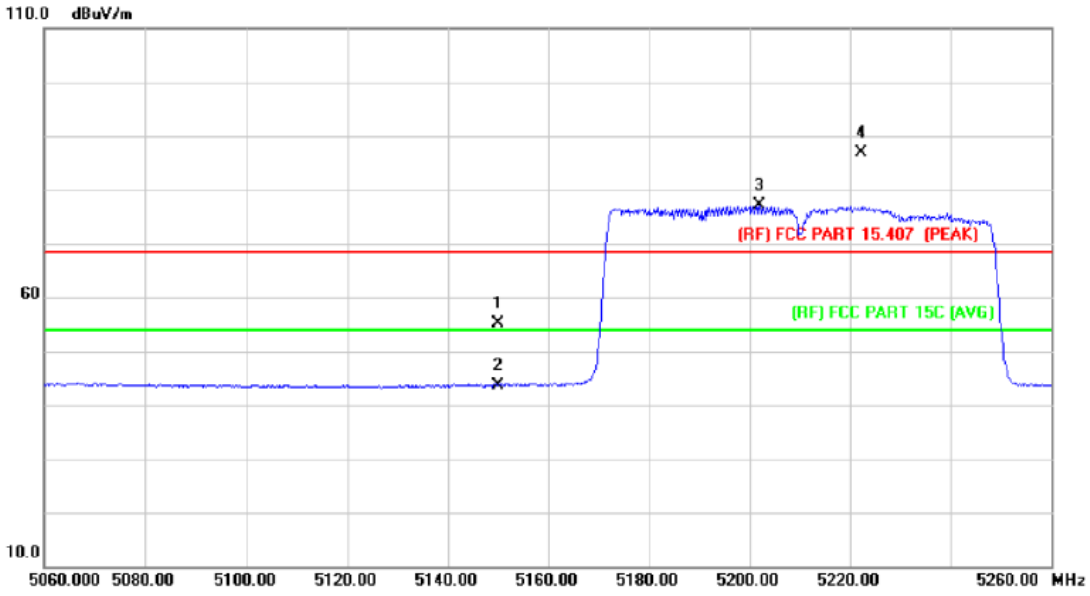


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	5803.000	83.85	10.00	93.85	122.30	-28.45	peak
2		5850.000	47.11	10.13	57.24	122.30	-65.06	peak

Emission Level= Read Level+ Correct Factor

ac(80)

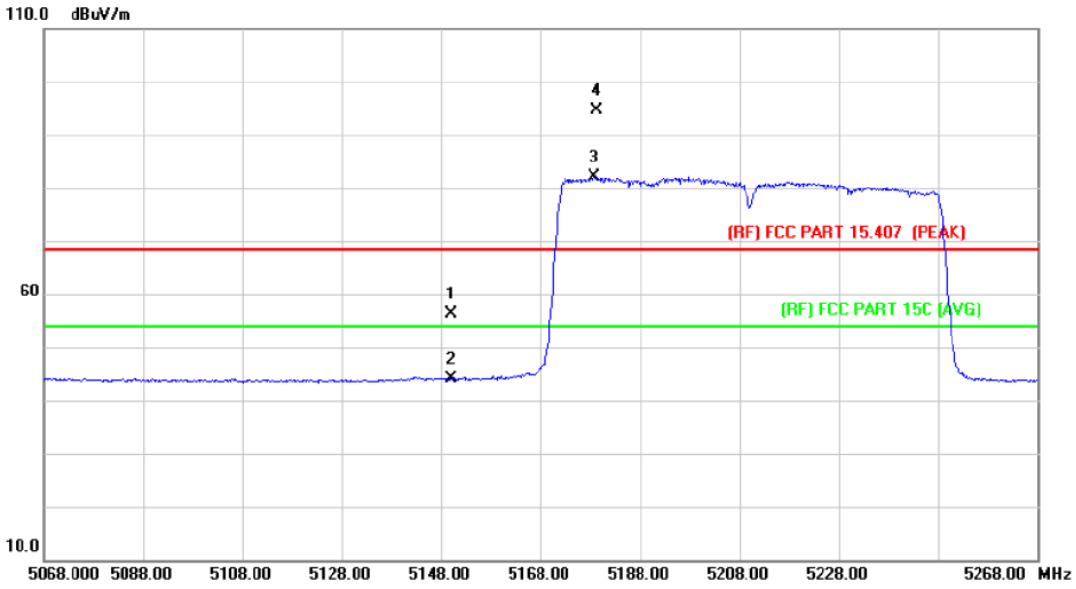
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ac(80) Mode 5210MHz (U-NII-1)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		5150.000	46.36	8.78	55.14	68.30	-13.16	peak
2		5150.000	34.94	8.78	43.72	54.00	-10.28	AVG
3	*	5202.000	68.31	8.81	77.12	Fundamental Frequency		AVG
4	X	5222.200	77.94	8.82	86.76	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

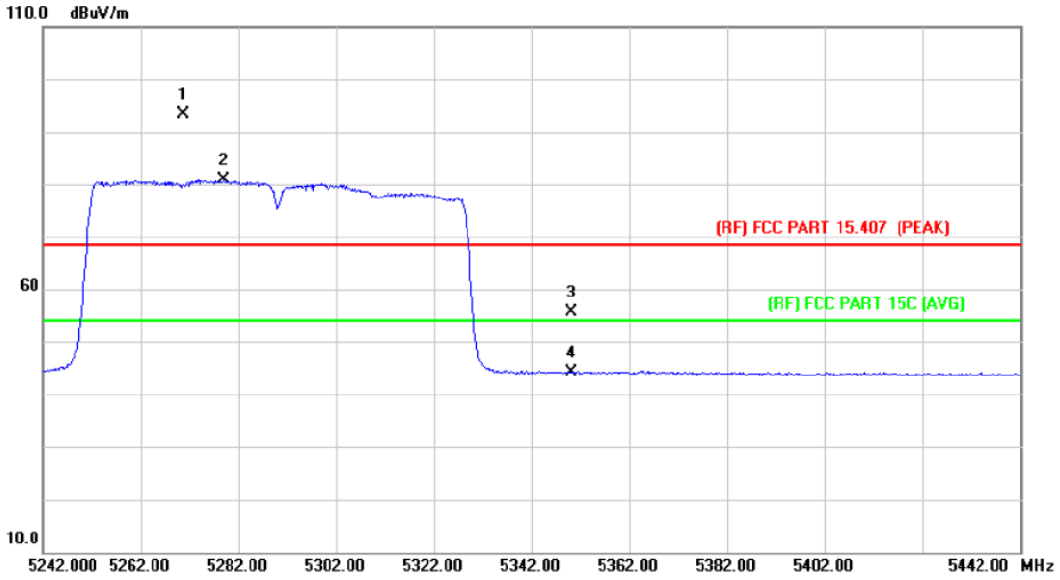
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11 ac(80) Mode 5210MHz (U-NII-1)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		5150.000	47.66	8.78	56.44	68.30	-11.86	peak
2		5150.000	35.28	8.78	44.06	54.00	-9.94	AVG
3	*	5178.800	73.32	8.79	82.11	Fundamental Frequency		AVG
4	X	5179.400	85.81	8.79	94.60	Fundamental Frequency		peak

Emission Level= Read Level+ Correct Factor

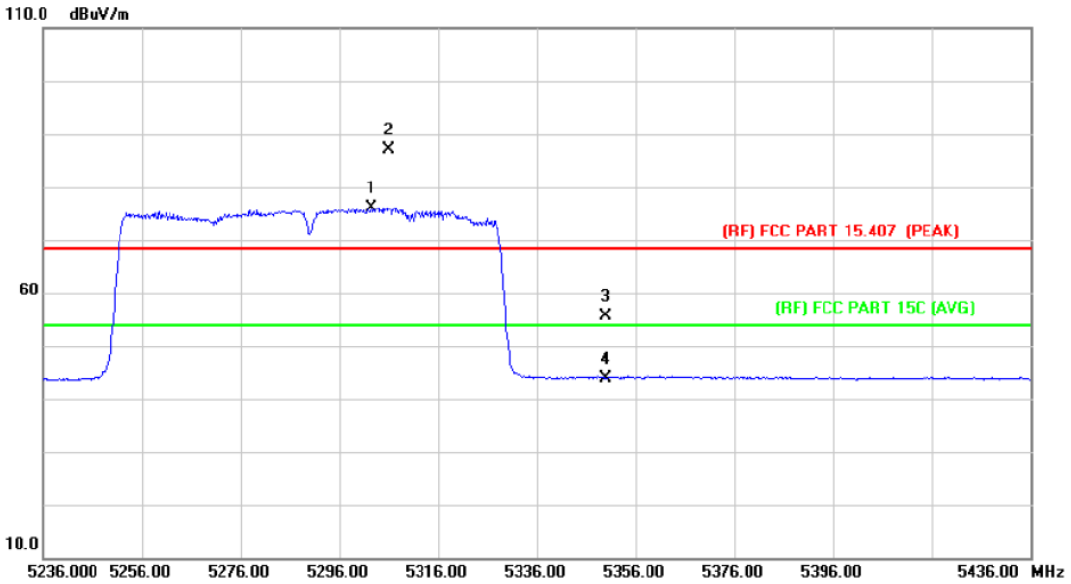
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ac(80) Mode 5210MHz (U-NII-1)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	X	5270.600	84.60	8.85	93.45	Fundamental Frequency		peak
2	*	5279.000	71.96	8.86	80.82	Fundamental Frequency		AVG
3		5350.000	46.68	8.91	55.59	68.30	-12.71	peak
4		5350.000	35.11	8.91	44.02	54.00	-9.98	AVG

Emission Level= Read Level+ Correct Factor

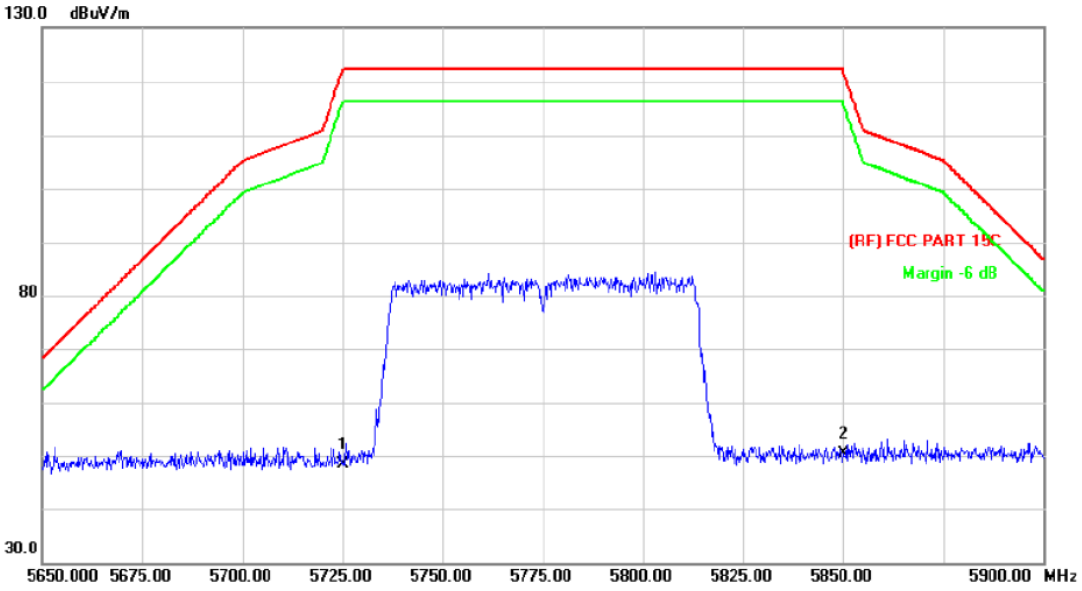
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11 ac(80) Mode 5210MHz (U-NII-1)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1	*	5302.600	67.35	8.87	76.22	Fundamental Frequency		AVG
2	X	5306.000	78.20	8.88	87.08	Fundamental Frequency		peak
3		5350.000	46.78	8.91	55.69	68.30	-12.61	peak
4		5350.000	35.08	8.91	43.99	54.00	-10.01	AVG

Emission Level= Read Level+ Correct Factor

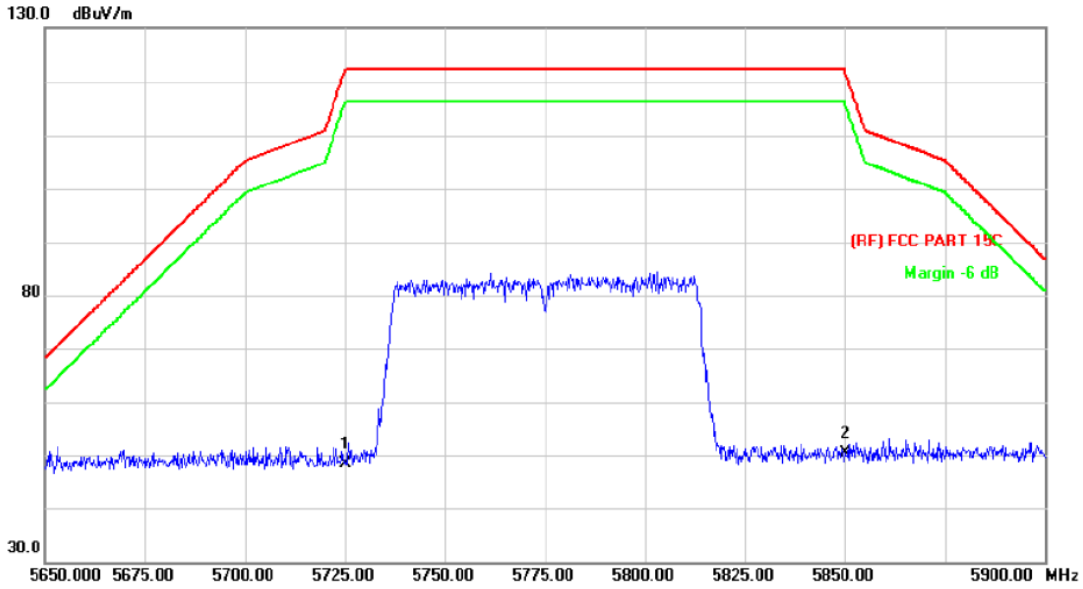
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX 802.11 ac(80) Mode 5775MHz (U-NII-3)		
Remark:	N/A		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		5725.000	34.74	15.87	50.61	122.30	-71.69	peak
2	*	5850.000	34.22	16.83	51.05	122.30	-71.25	peak

Emission Level= Read Level+ Correct Factor

Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60HZ		
Ant. Pol.	Vertical		
Test Mode:	TX 802.11 ac(80) Mode 5775MHz (U-NII-3)		
Remark:	N/A		

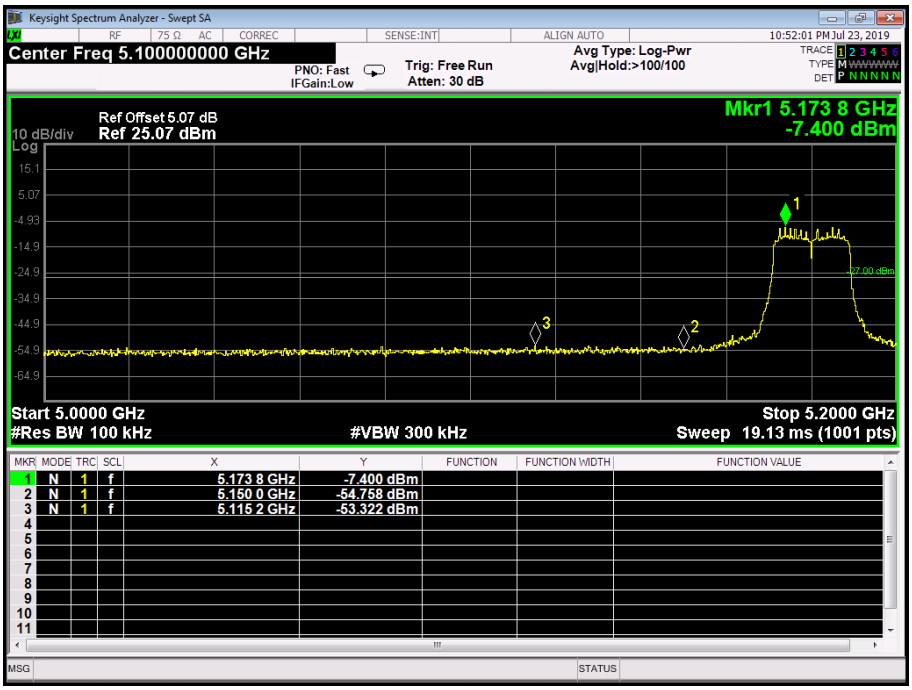


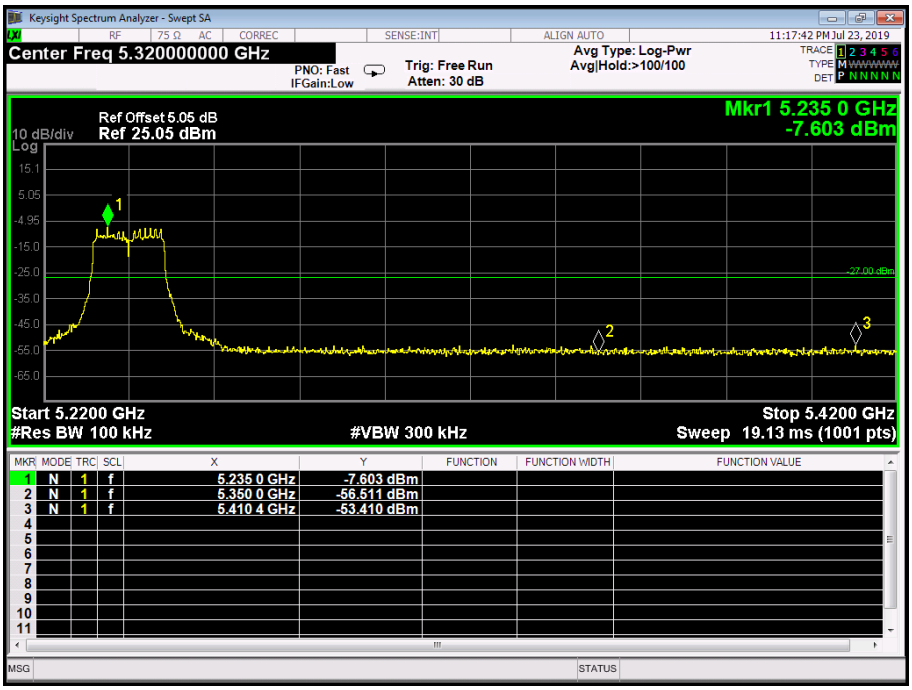
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector
1		5725.000	32.46	15.87	48.33	122.30	-73.97	peak
2	*	5850.000	33.66	16.83	50.49	122.30	-71.81	peak

Emission Level= Read Level+ Correct Factor

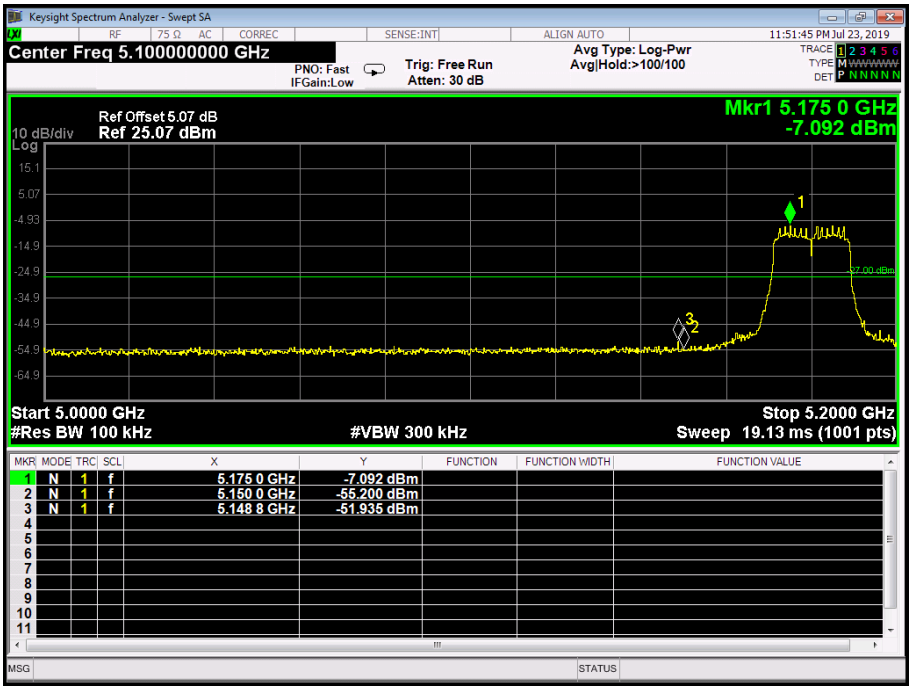
(2) Conducted Test

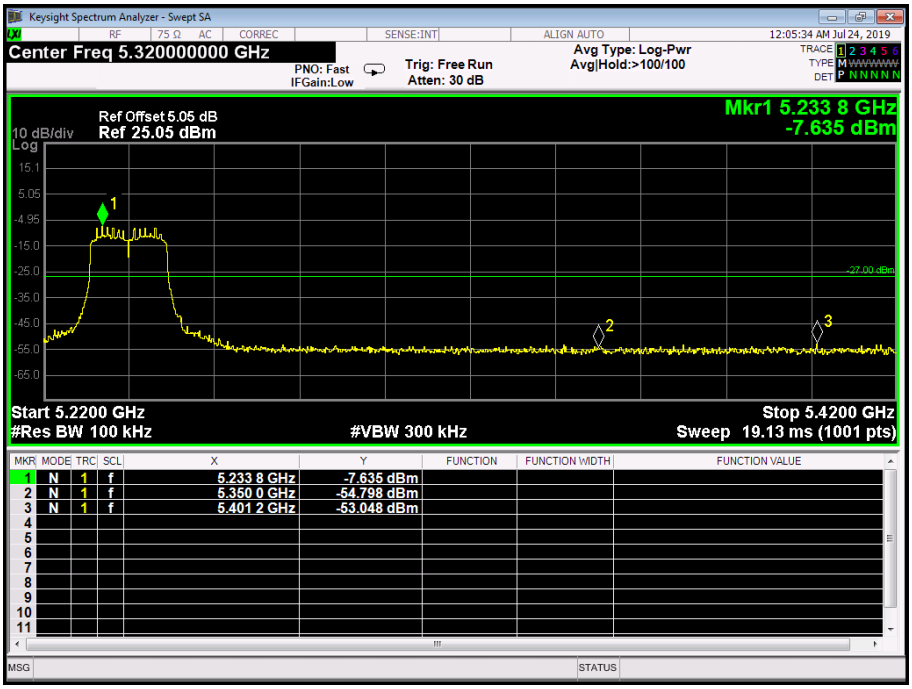
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a mode(U-NII-1) / 5180 ~ 5240MHz **CH Low-5180MHz** TX 802.11a mode(U-NII-1) / 5180 ~ 5240MHz **CH High-5240MHz**		
Remark:	The EUT is programed in continuously transmitting mode		



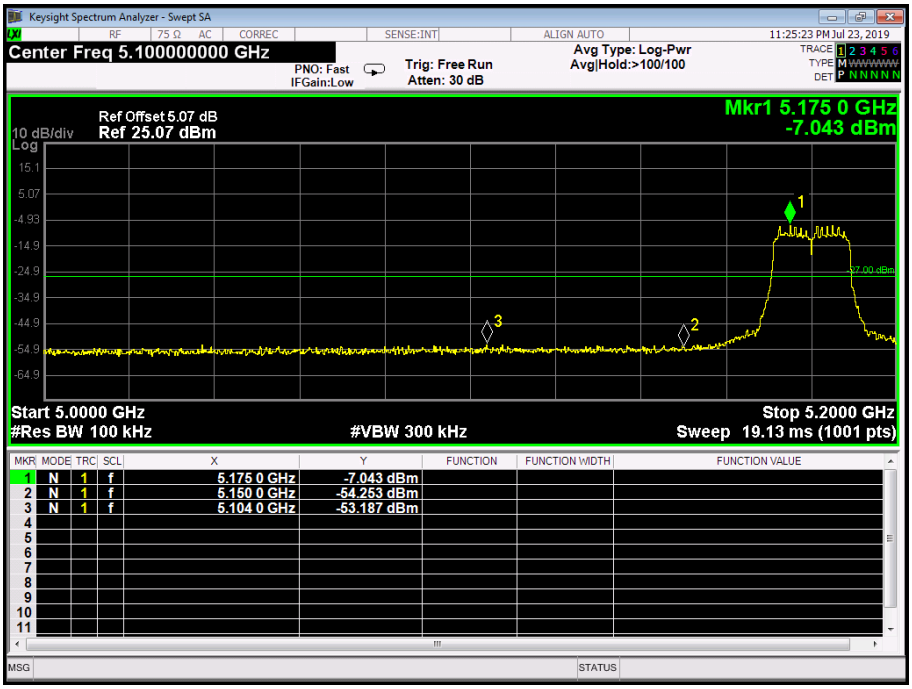


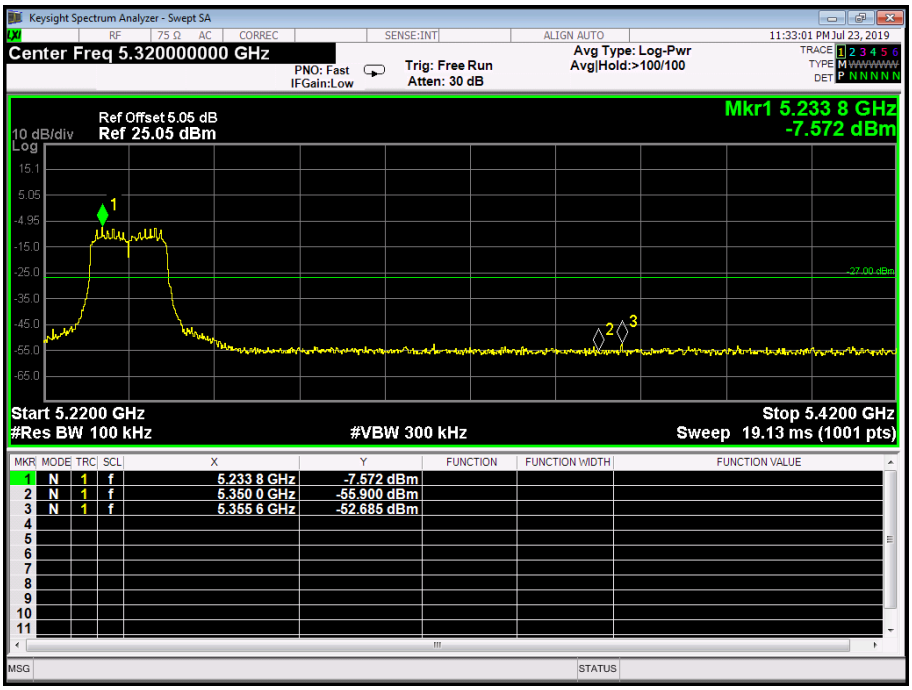
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(20) mode(U-NII-1) / 5180 ~ 5240MHz **CH Low-5180MHz** TX 802.11n(20) mode(U-NII-1) / 5180 ~ 5240MHz **CH High-5240MHz**		
Remark:	The EUT is programed in continuously transmitting mode		



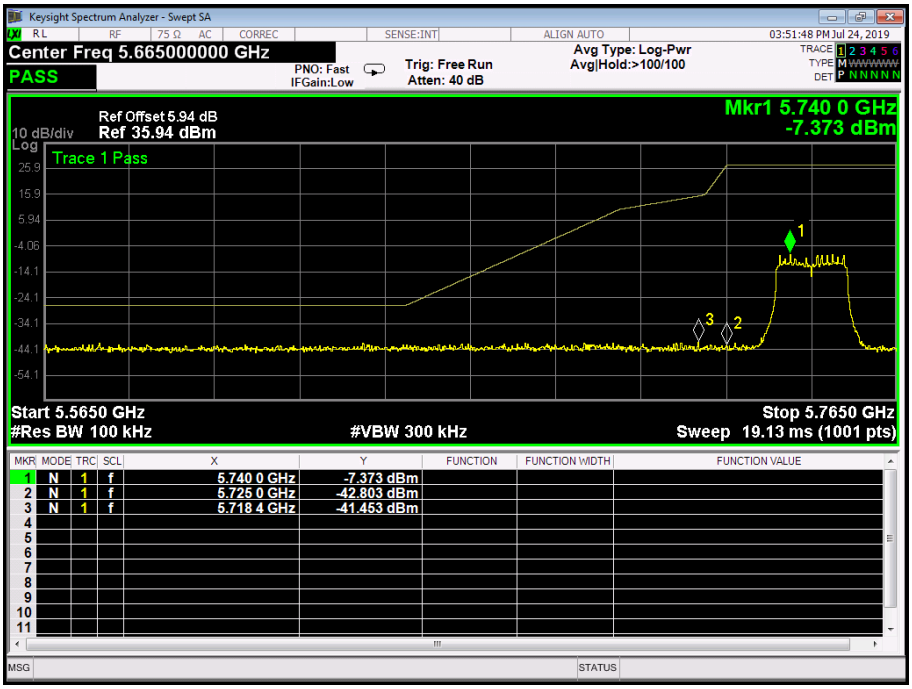


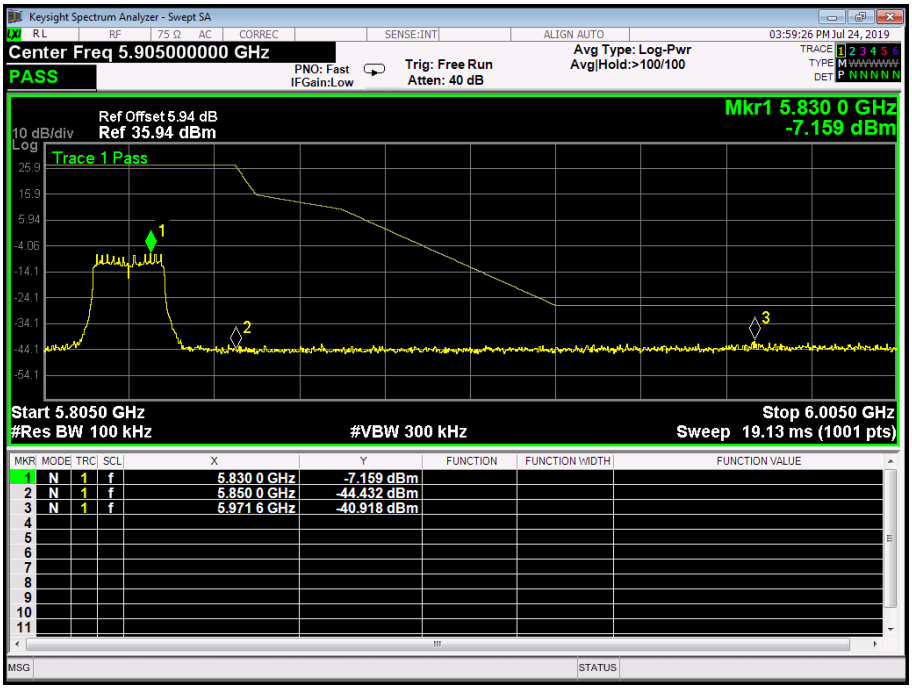
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT20) mode(U-NII-1) / 5180 ~ 5240MHz **CH Low-5180MHz** TX 802.11ac(VHT20) mode(U-NII-1) / 5180 ~ 5240MHz **CH High-5240MHz**		
Remark:	The EUT is programed in continuously transmitting mode		



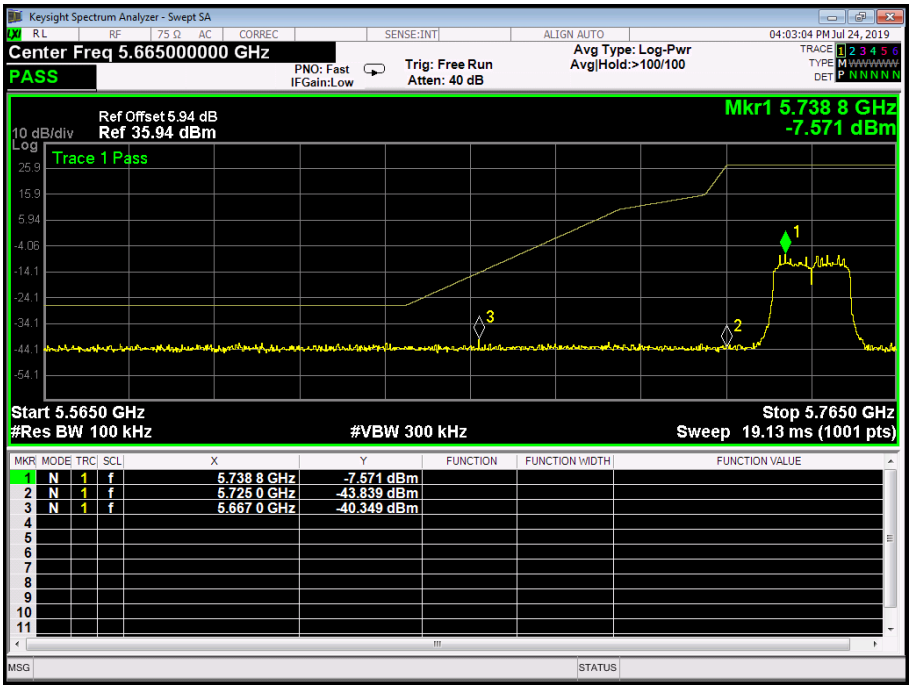


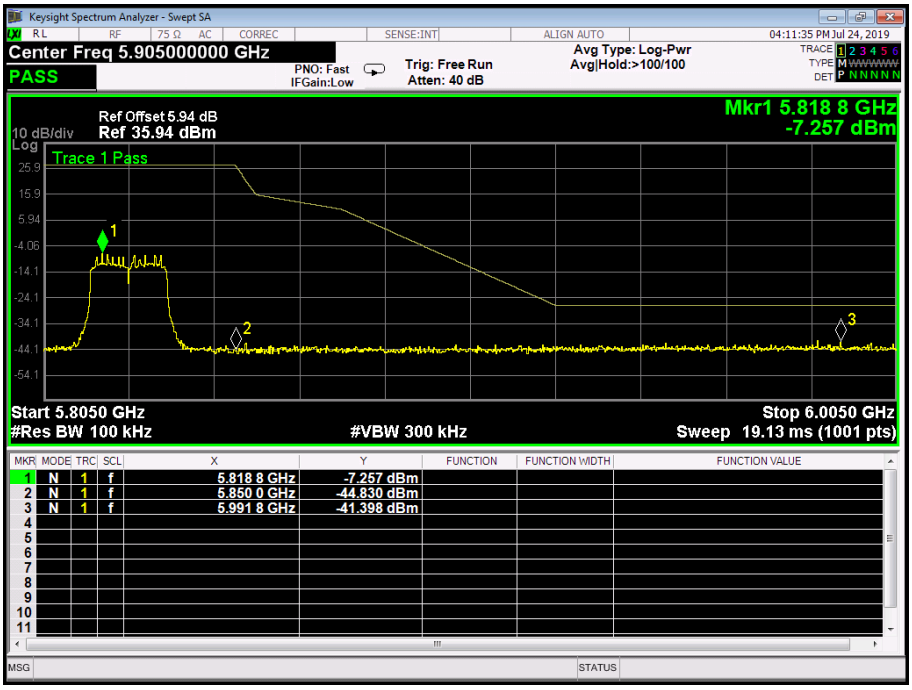
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode 5745MHz /5825MHz (U-NII-3)		
Remark:	The EUT is programed in continuously transmitting mode		



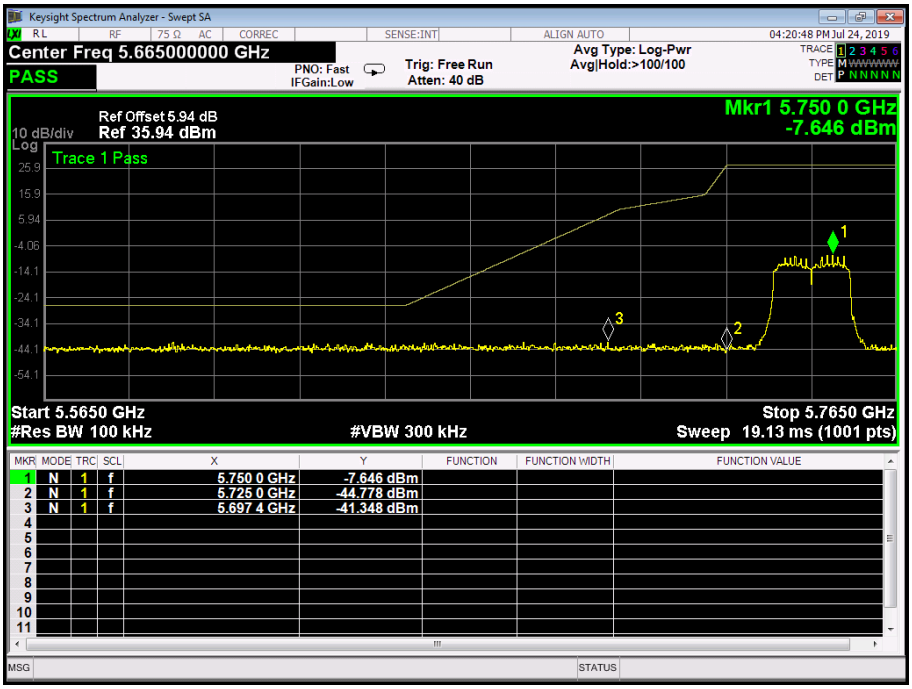


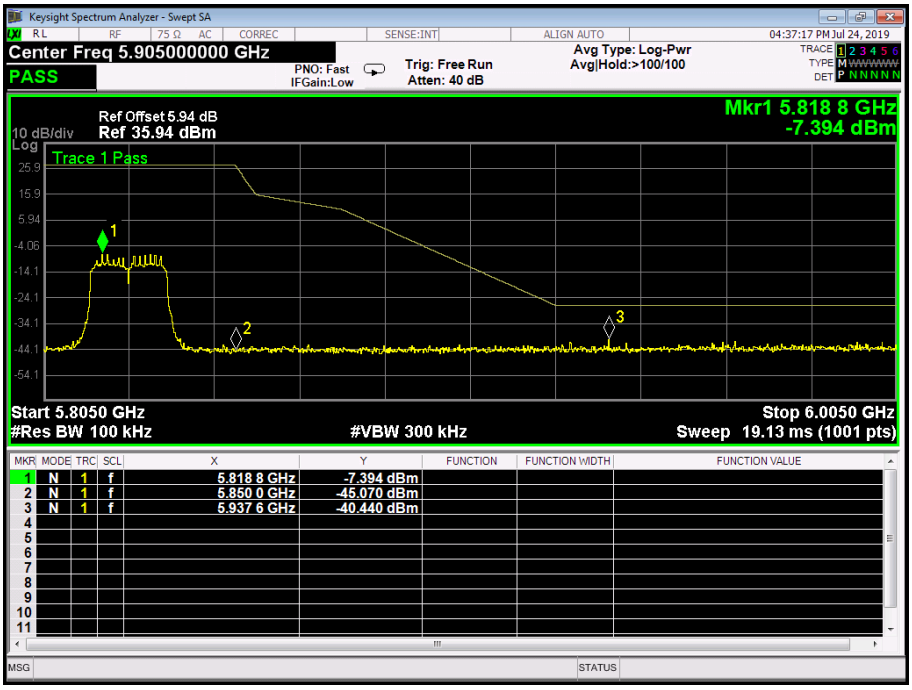
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(20) Mode 5745MHz /5825MHz (U-NII-3)		
Remark:	The EUT is programed in continuously transmitting mode		



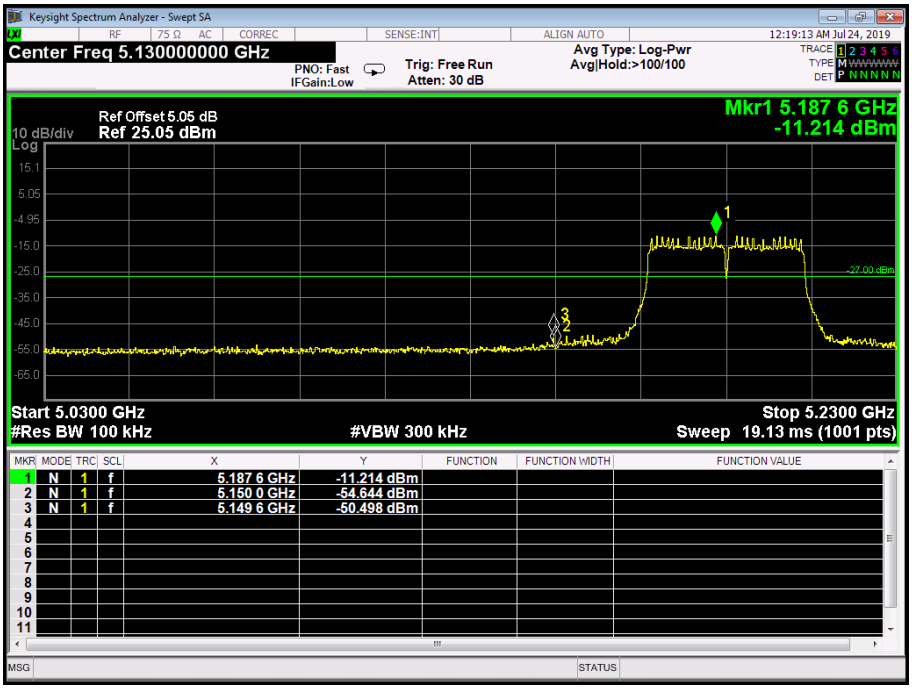


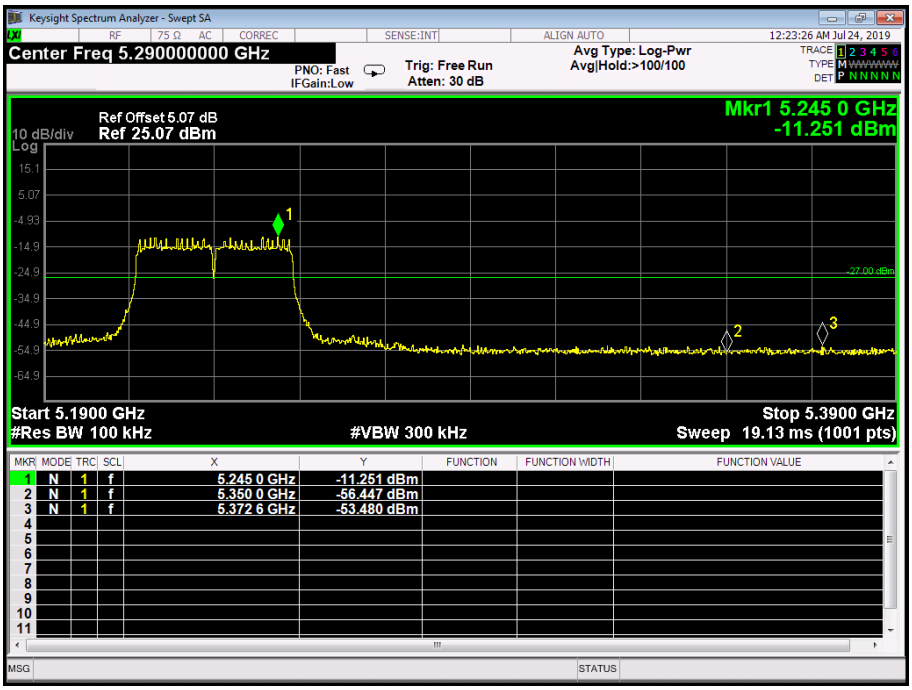
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT20) Mode 5745MHz /5825MHz (U-NII-3)		
Remark:	The EUT is programed in continuously transmitting mode		



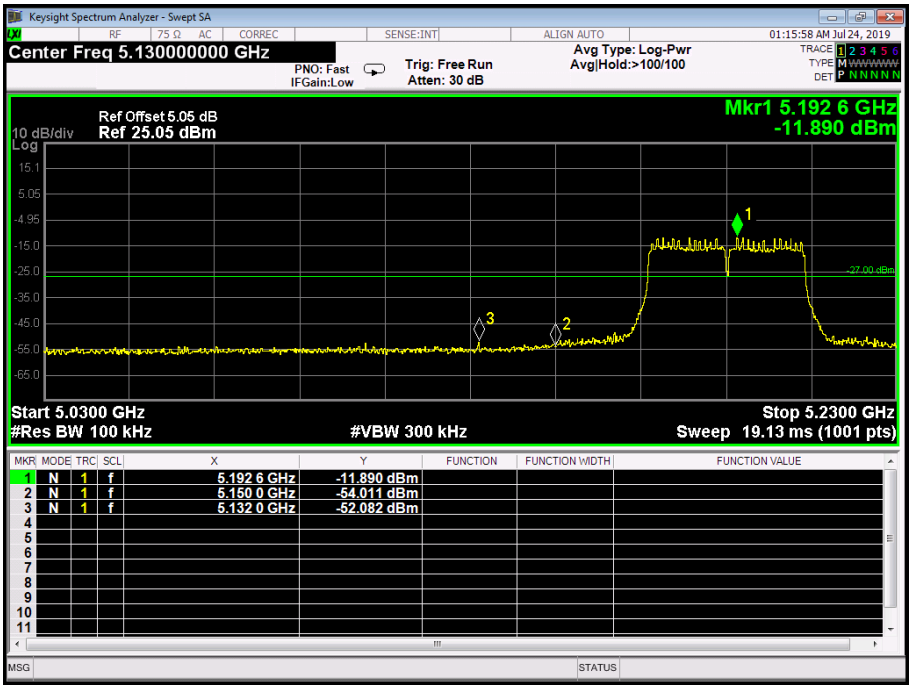


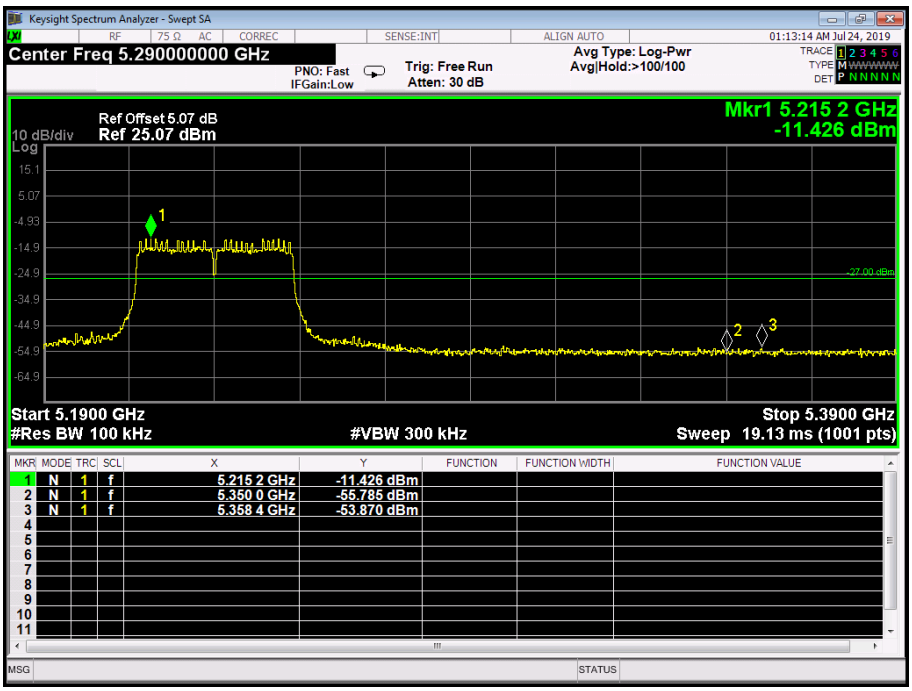
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(40) mode(U-NII-1) / 5190 ~ 5230MHz **CH Low-5190MHz** TX 802.11n(40) mode(U-NII-1) / 5190 ~ 5230MHz **CH High-5230MHz**		
Remark:	The EUT is programed in continuously transmitting mode		



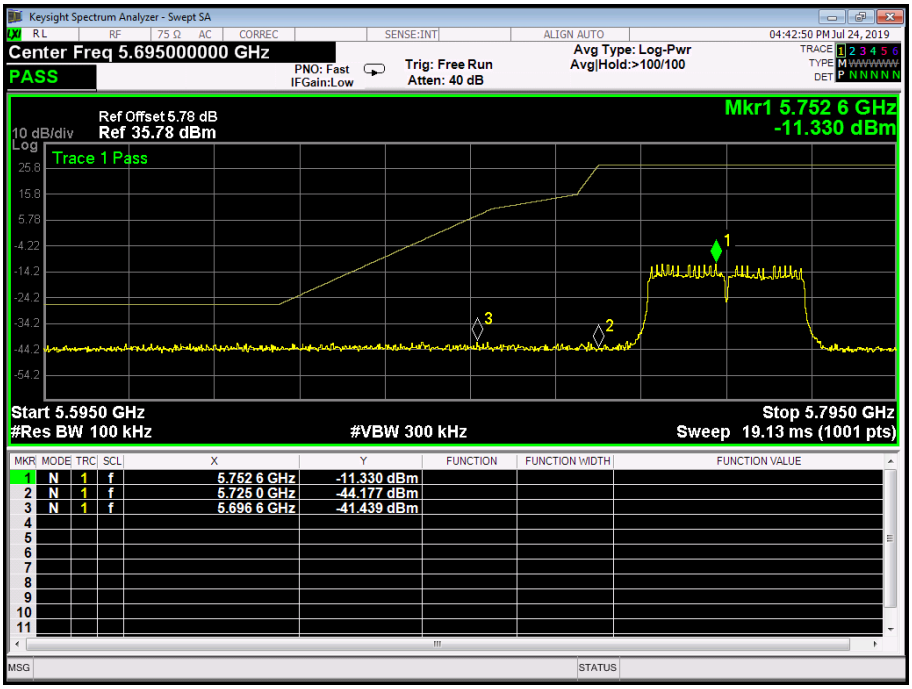


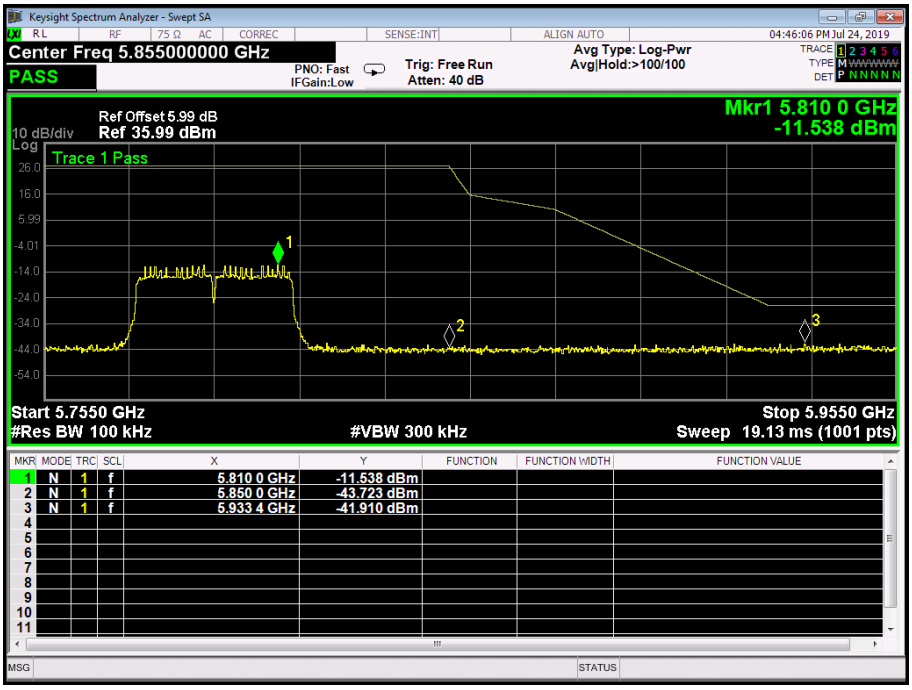
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) mode(U-NII-1) / 5190 ~ 5230MHz **CH Low-5190MHz** TX 802.11ac(VHT40) mode(U-NII-1) / 5190 ~ 5230MHz **CH High-5230MHz**		
Remark:	The EUT is programed in continuously transmitting mode		



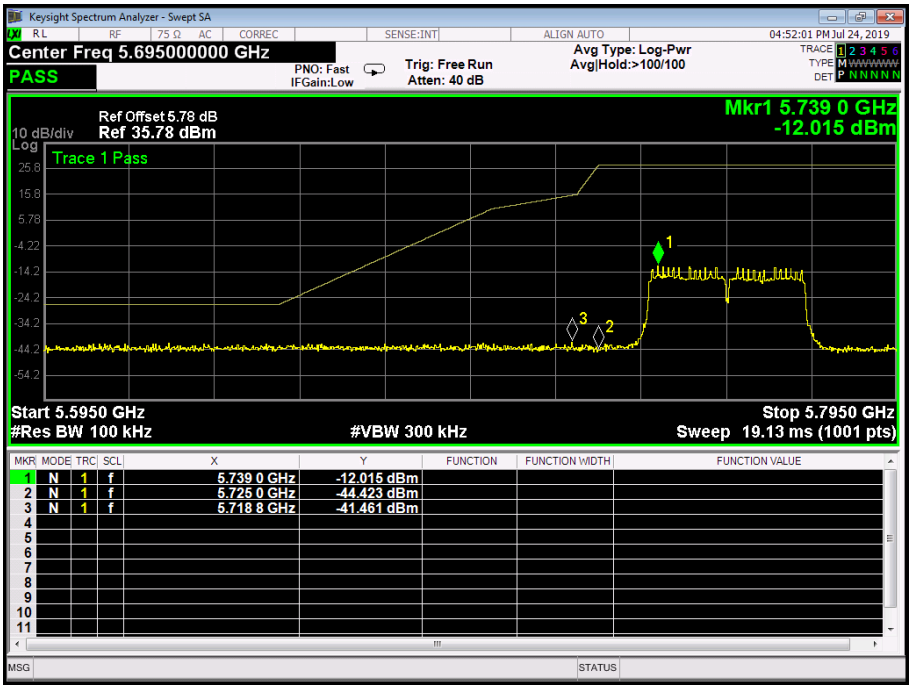


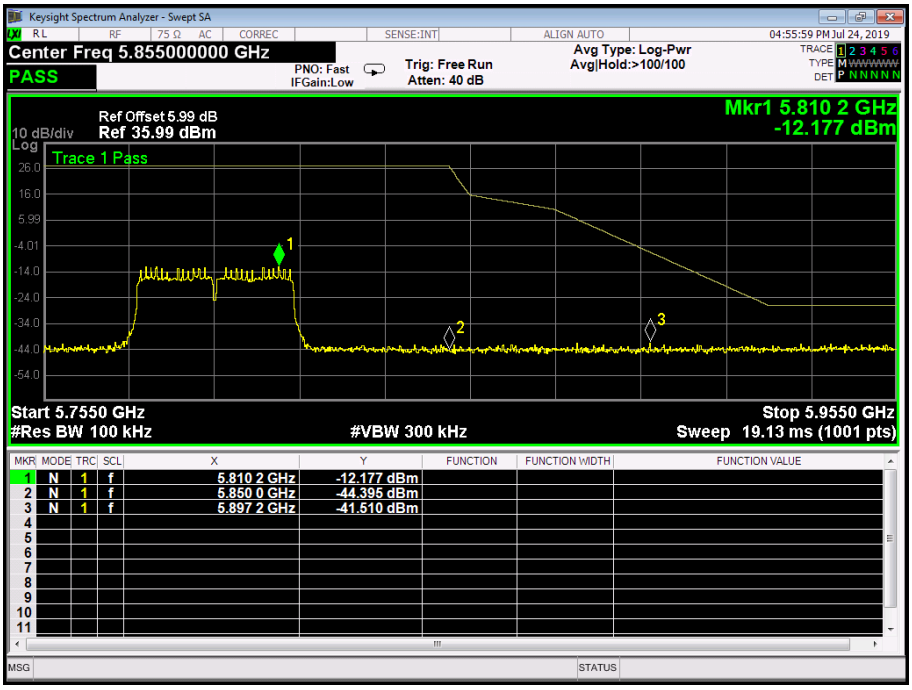
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11 n(40) Mode 5755MHz/5795 (U-NII-3)		
Remark:	The EUT is programed in continuously transmitting mode		



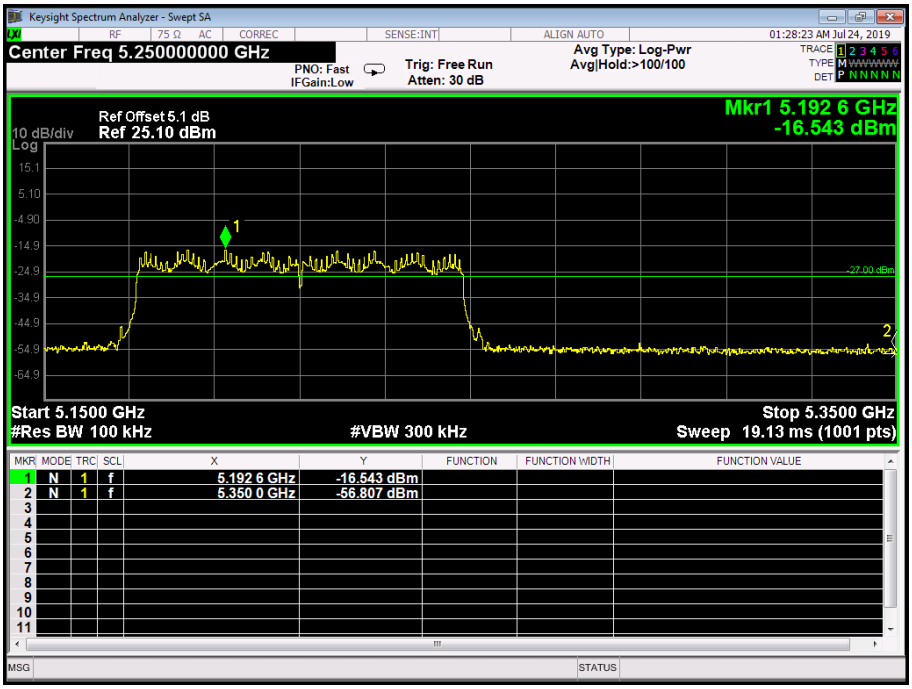


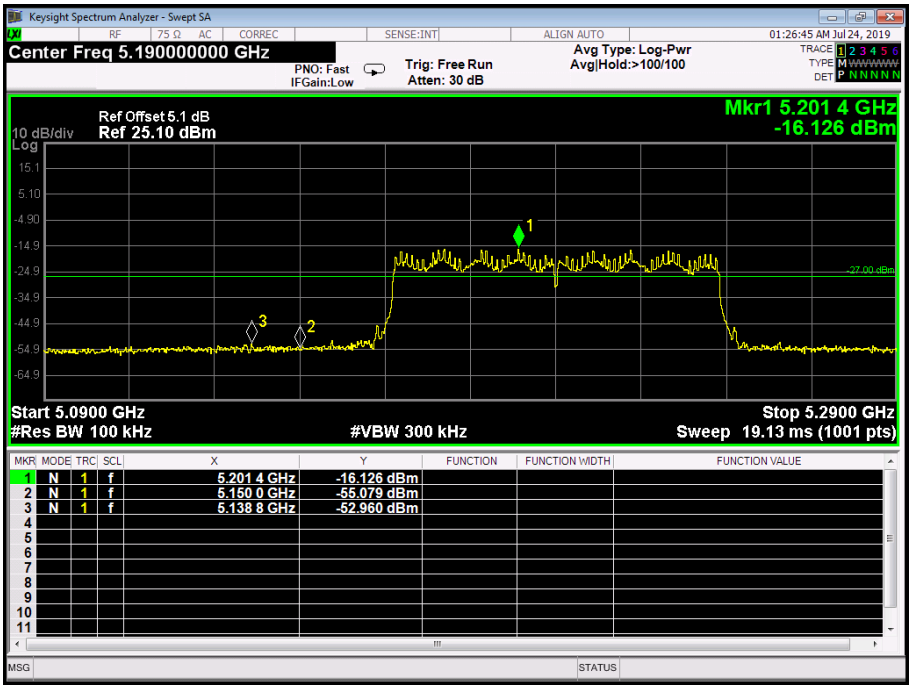
Temperature:	25 ℃	**Relative Humidity:**	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11 ac(VHT40) Mode 5755MHz/5795 (U-NII-3)		
Remark:	The EUT is programed in continuously transmitting mode		



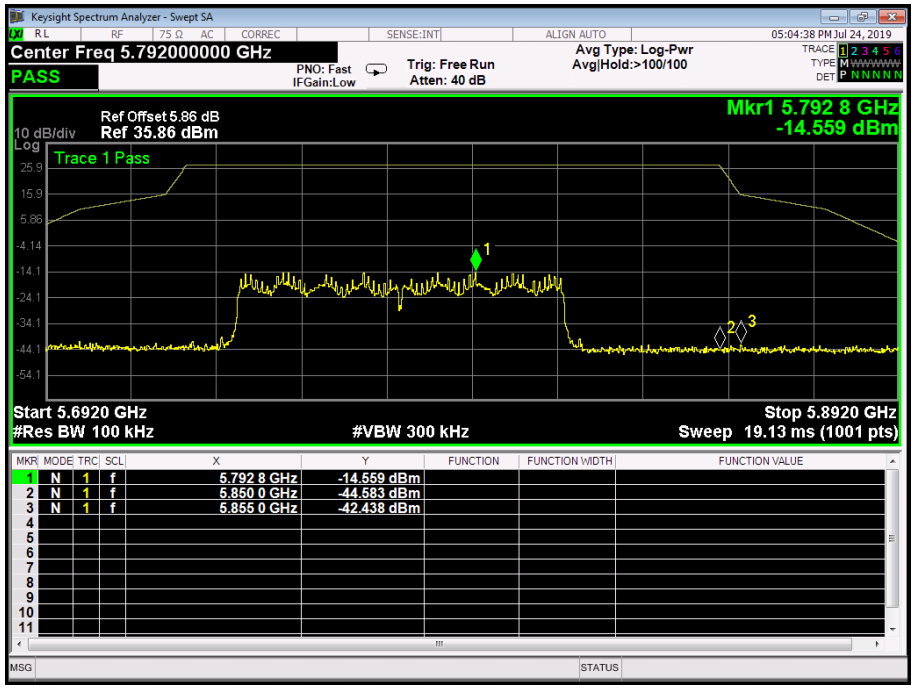


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11 ac(VHT80) Mode 5210MHz (U-NII-1)		
Remark:	The EUT is programed in continuously transmitting mode		





Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11 ac(VHT80) Mode 5775MHz (U-NII-3)		
Remark:	The EUT is programed in continuously transmitting mode		



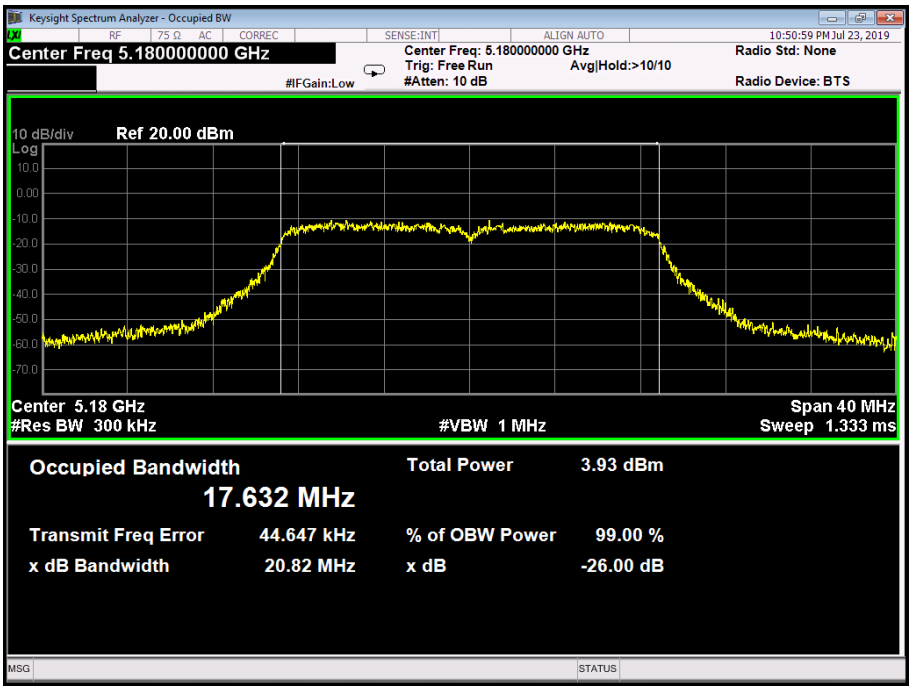
Attachment D-- Bandwidth Test Data

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

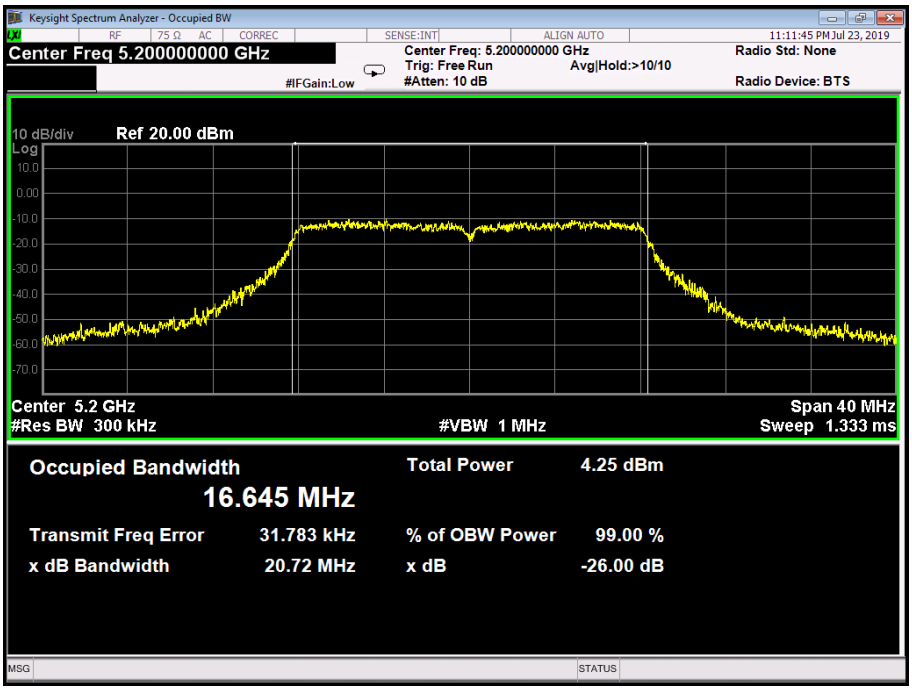
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	20.82	17.632
40	5200	20.72	16.645
48	5240	20.75	16.654

802.11a Mode

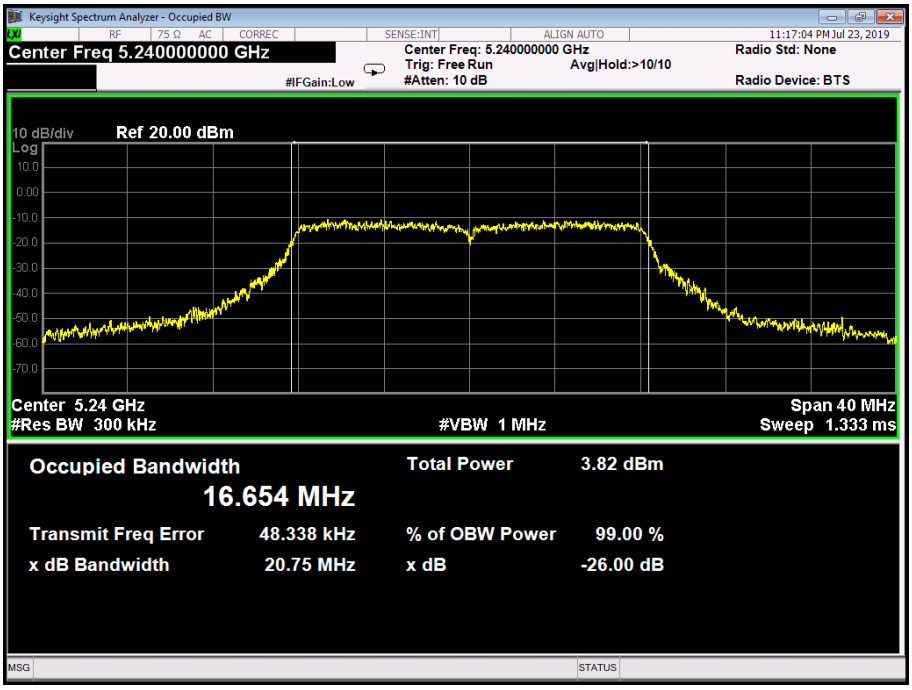
5180 MHz



802.11a Mode
5200 MHz



802.11a Mode
5240 MHz

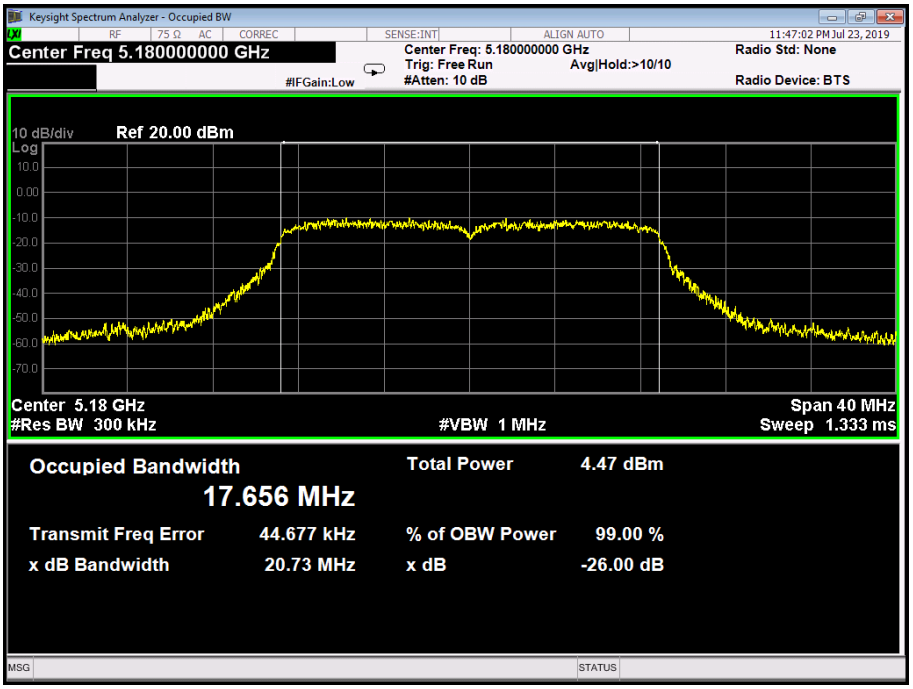


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(HT20) Mode (U-NII-1)		

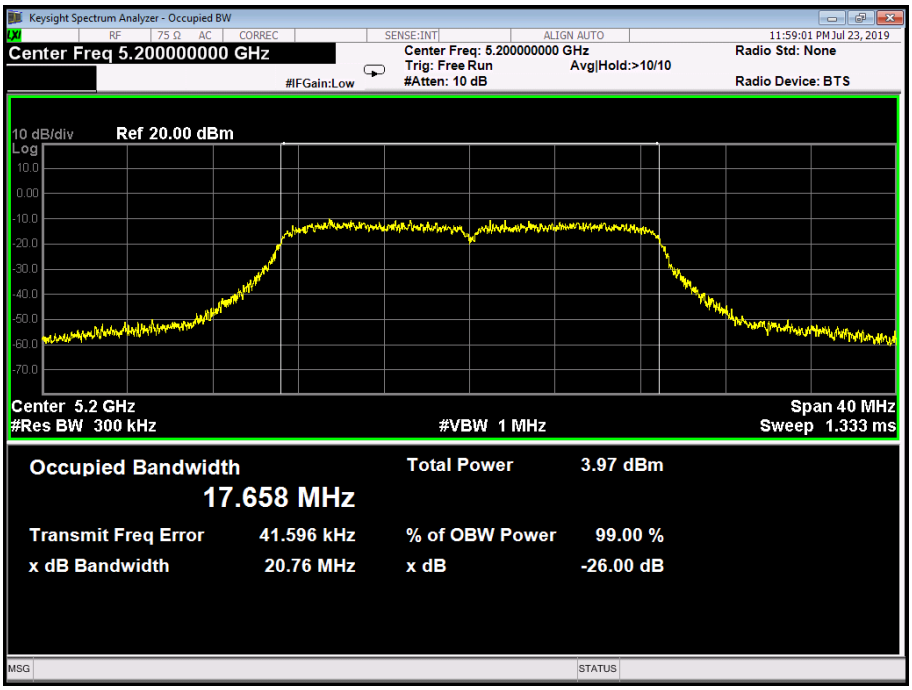
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	20.73	17.656
40	5200	20.76	17.658
48	5240	20.83	17.653

802.11n(HT20) Mode

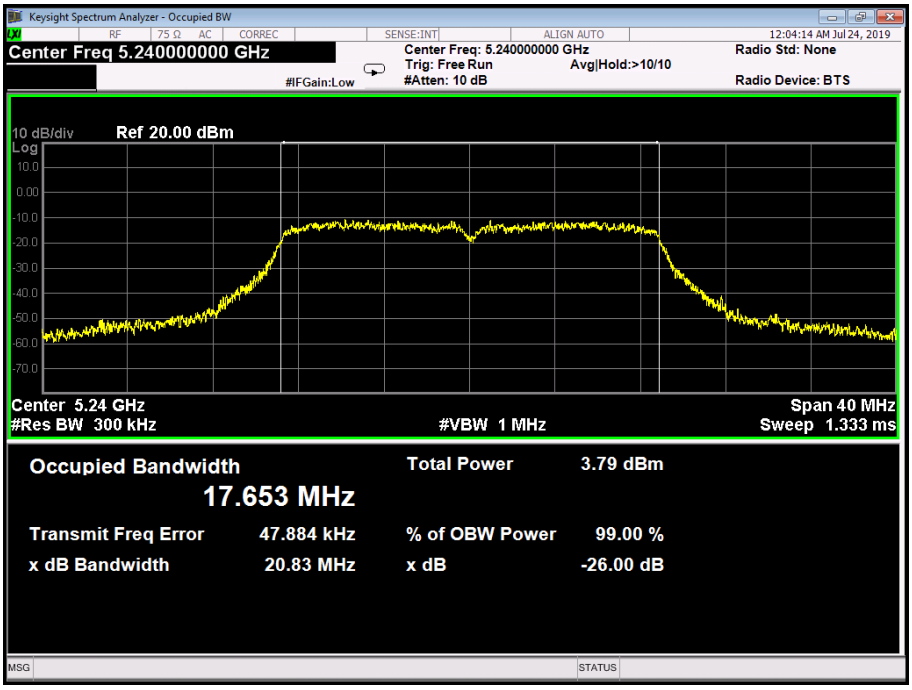
5180 MHz



802.11n(HT20) Mode
5200 MHz



802.11n(HT20) Mode
5240 MHz

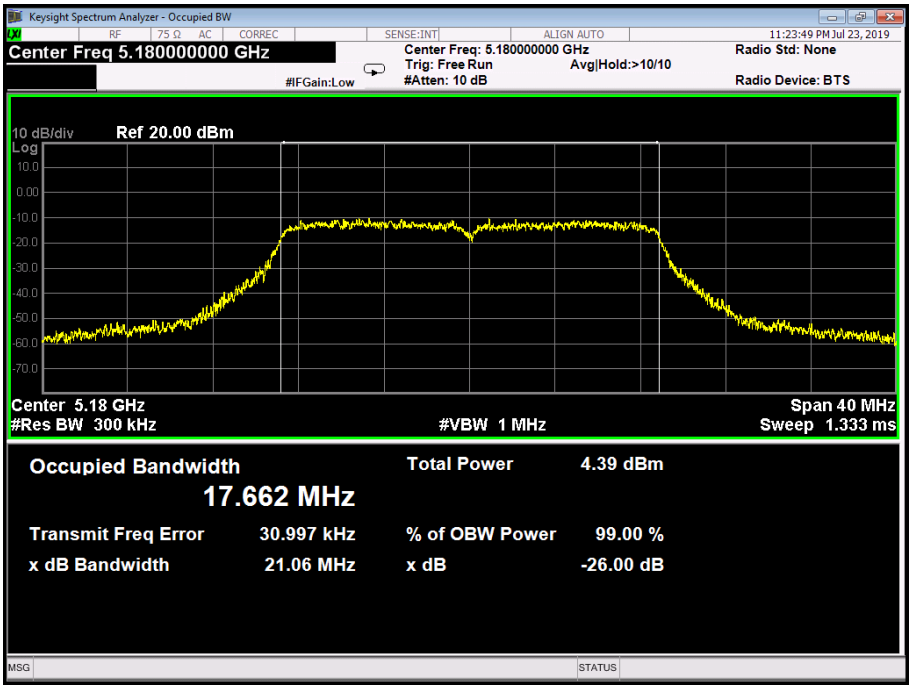


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT20) Mode (U-NII-1)		

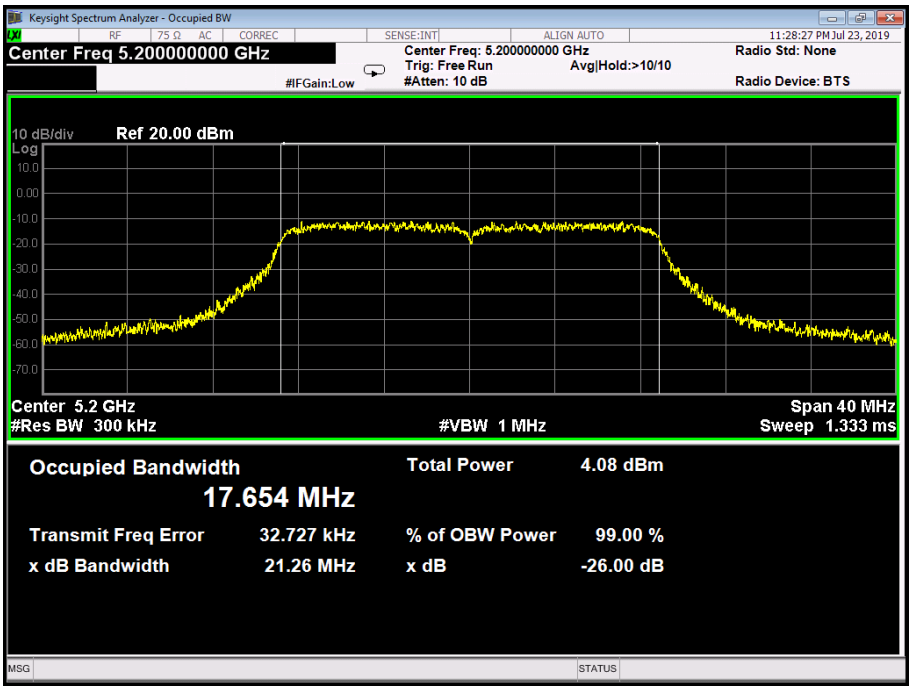
Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
36	5180	21.06	17.662
40	5200	21.26	17.654
48	5240	21.20	17.670

802.11ac(VHT20) Mode

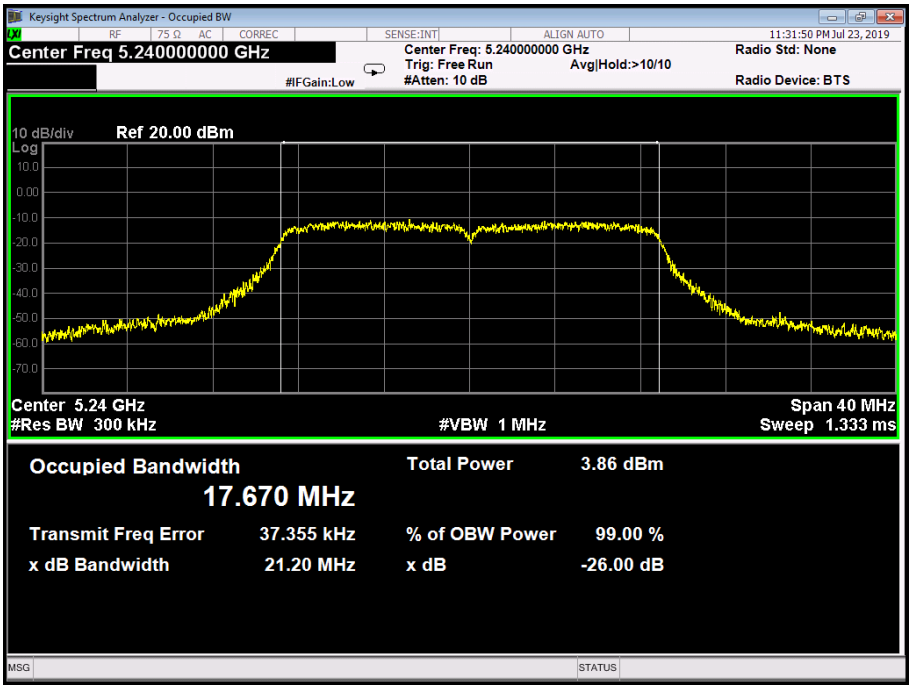
5180 MHz



802.11ac(VHT20) Mode
5200 MHz



802.11ac(VHT20) Mode
5240 MHz

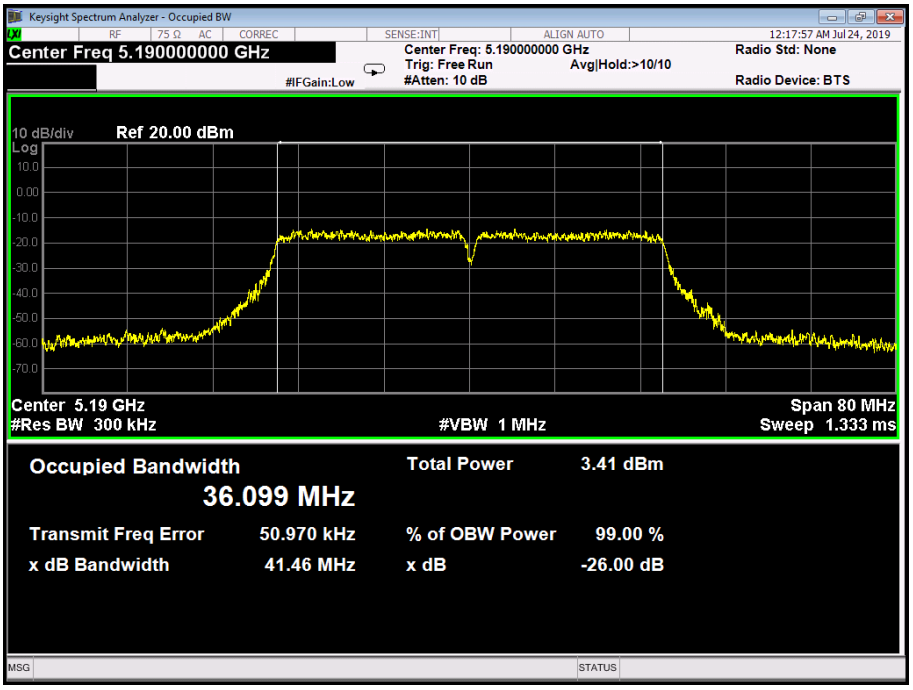


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode (U-NII-1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	41.46	36.099
46	5230	41.75	36.106

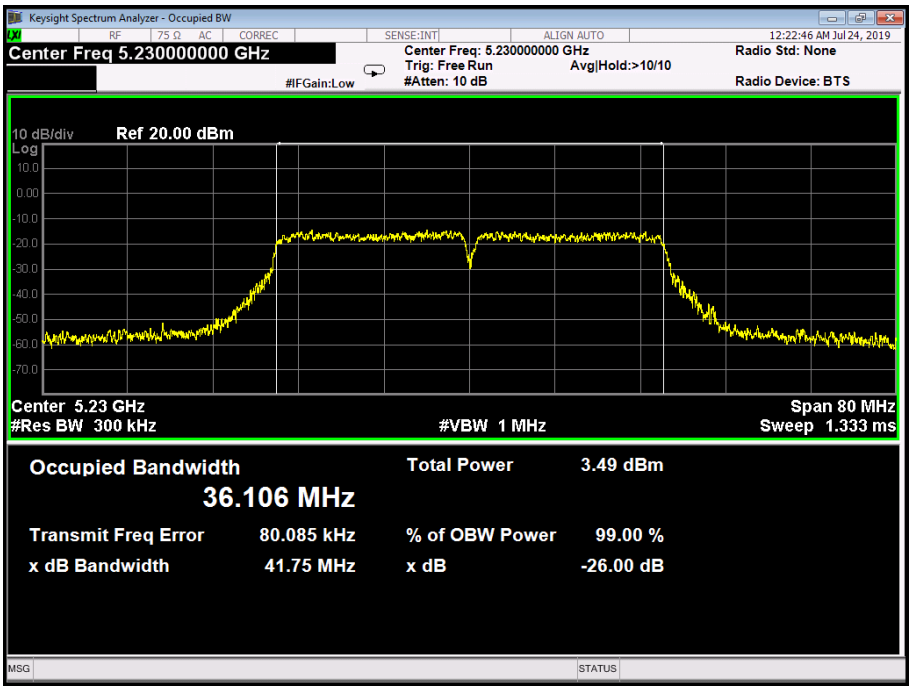
802.11N(HT40) Mode

5190 MHz



802.11N(HT40) Mode

5230 MHz

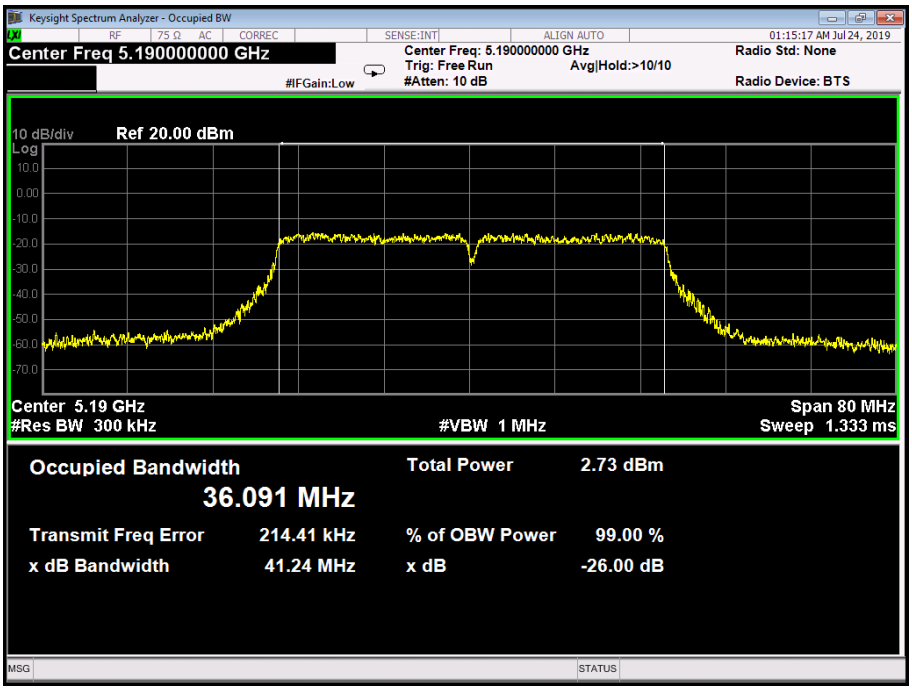


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
38	5190	41.24	36.091
46	5230	41.52	36.168

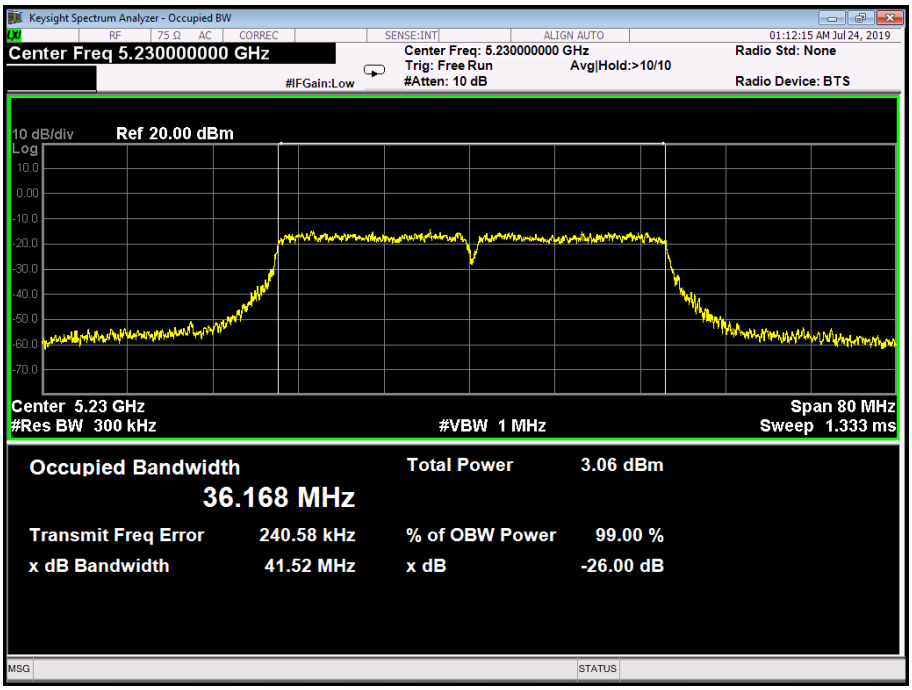
802.11ac(VHT40) Mode

5190 MHz



802.11ac(VHT40) Mode

5230 MHz

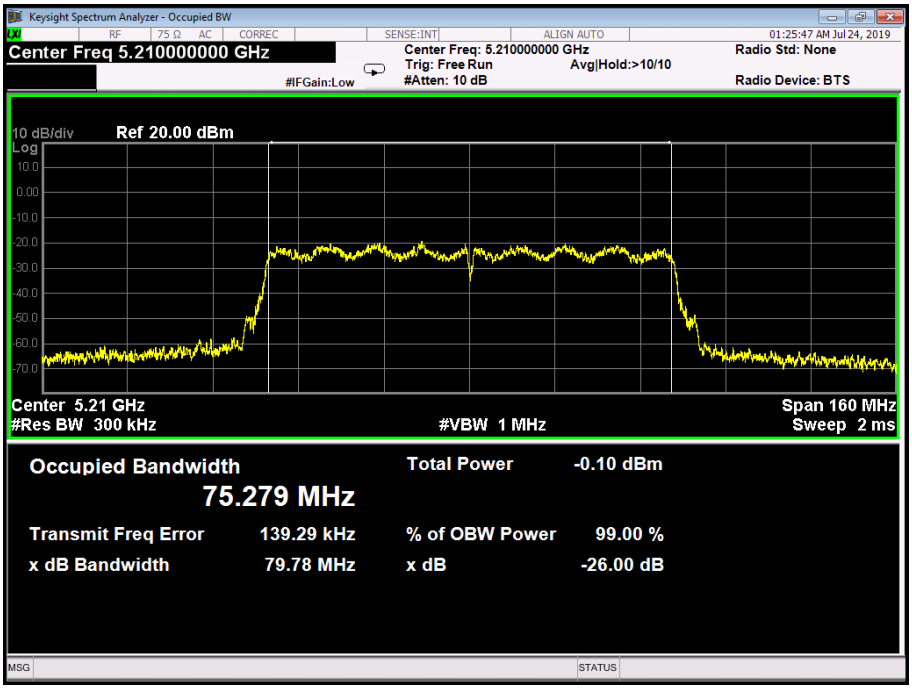


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT80) Mode (U-NII-1)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
42	5210	79.78	75.279

802.11ac(VHT80) Mode

5210 MHz

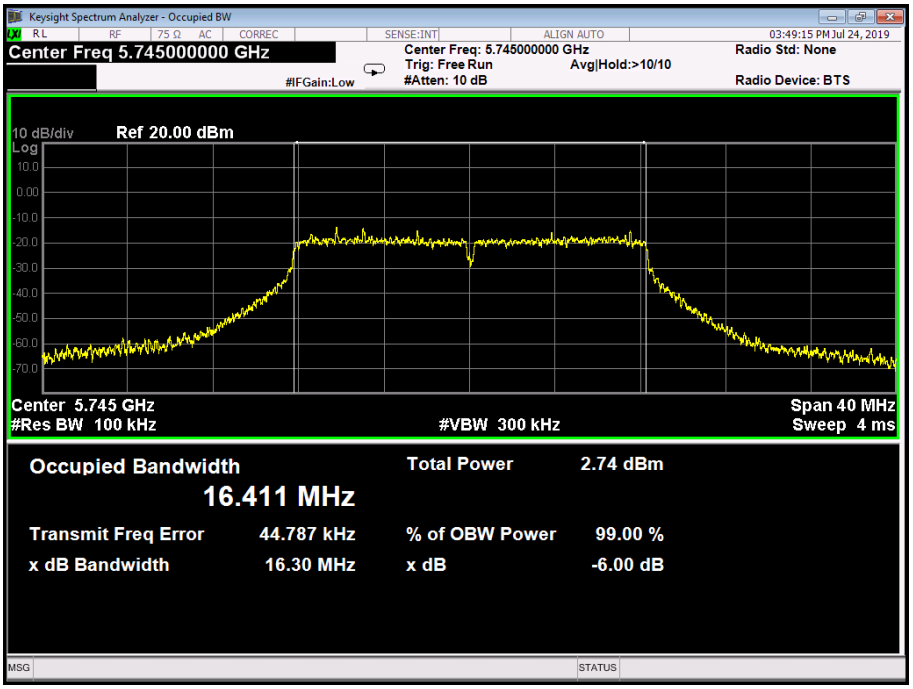


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11a Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.30	16.411
157	5785	16.34	16.417
165	5825	16.33	16.406

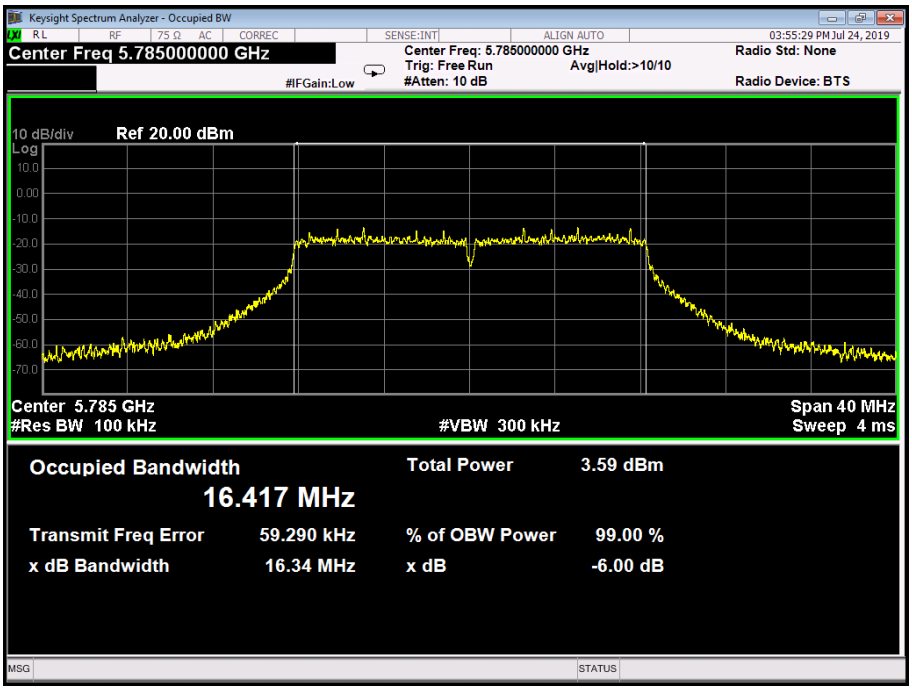
802.11a Mode

5745 MHz



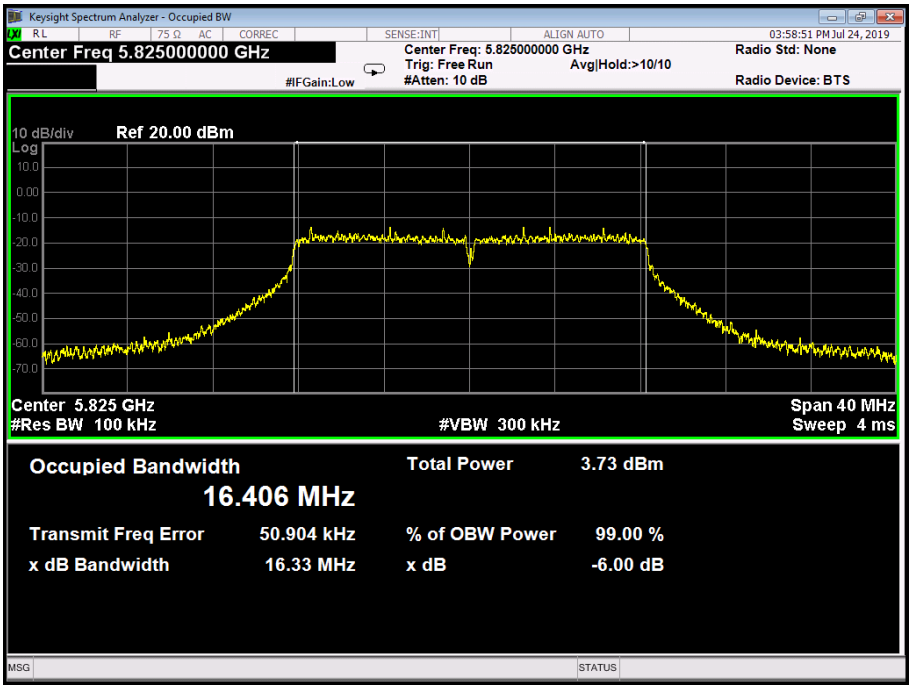
802.11a Mode

5785 MHz



802.11a Mode

5825 MHz

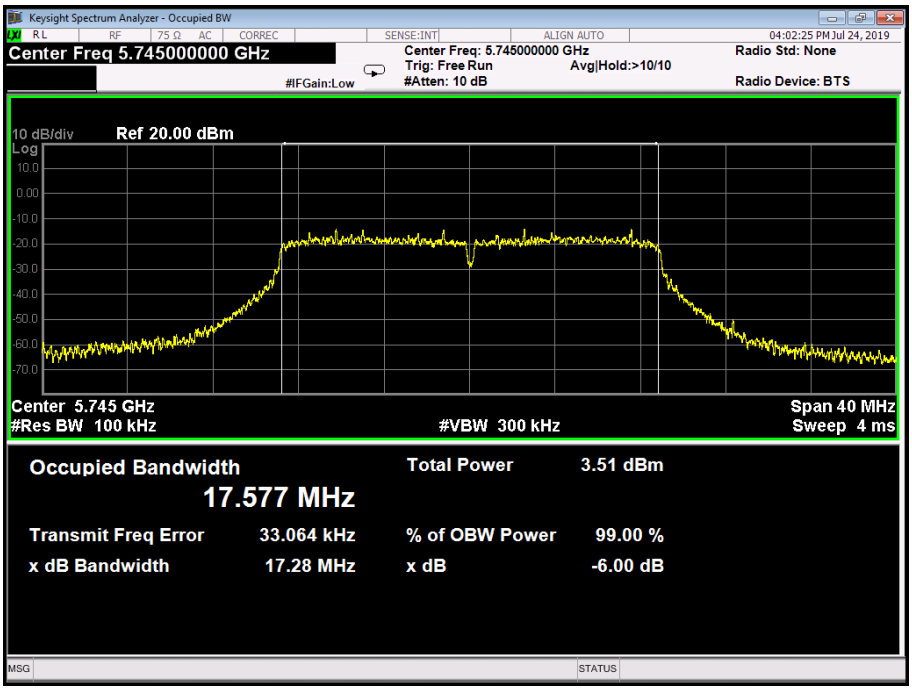


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(20) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	17.28	17.577
165	5825	16.91	17.588

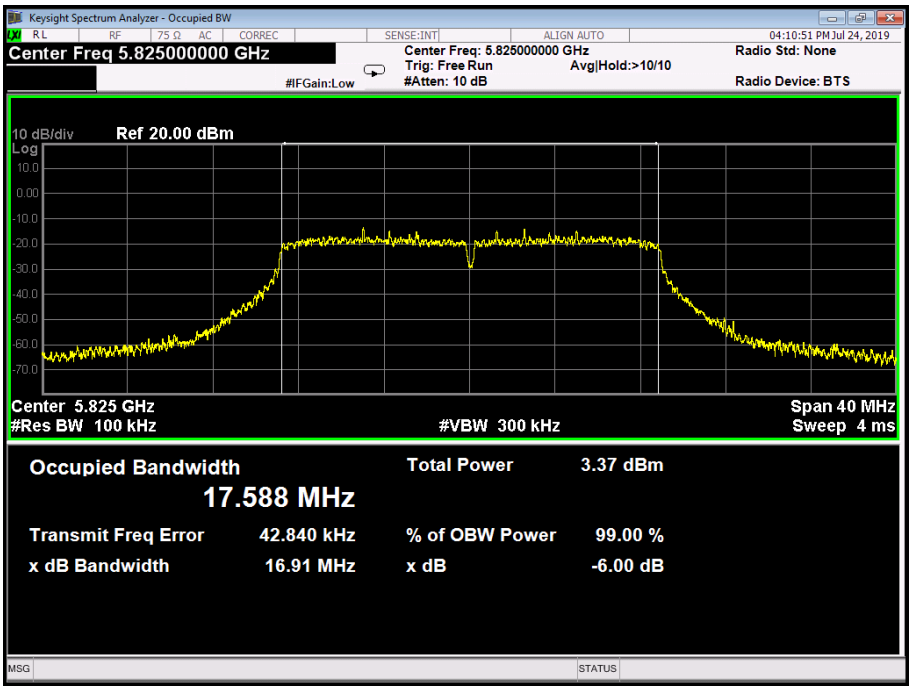
802.11n(HT20) Mode

5745 MHz



802.11n(HT20) Mode

5825 MHz

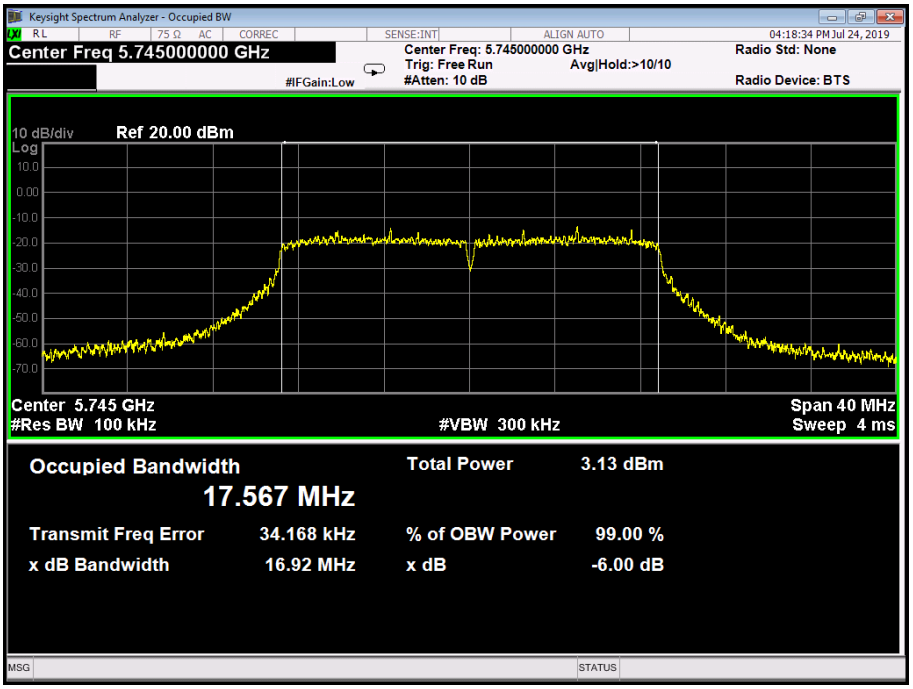

Keysight Spectrum Analyzer - Occupied BW
RL
RF
75 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
04:10:51 PM Jul 24, 2019
Center Freq 5.825000000 GHz
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold:>10/10
#IFGain:Low
#Atten: 10 dB
Radio Std: None
Radio Device: BTS
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.825 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40 MHz
Sweep 4 ms
Occupied Bandwidth
17.588 MHz
Total Power
3.37 dBm
Transmit Freq Error
42.840 kHz
% of OBW Power
99.00 %
x dB Bandwidth
16.91 MHz
x dB
-6.00 dB
MSG
STATUS

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

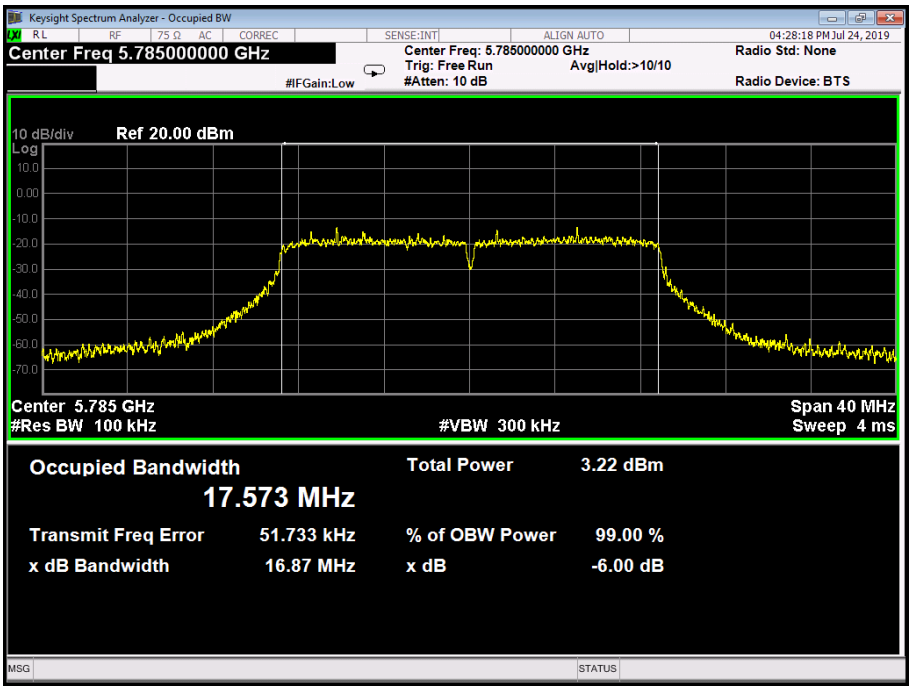
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
149	5745	16.92	17.567
157	5785	16.87	17.573
165	5825	16.89	17.574

802.11ac(VHT20) Mode

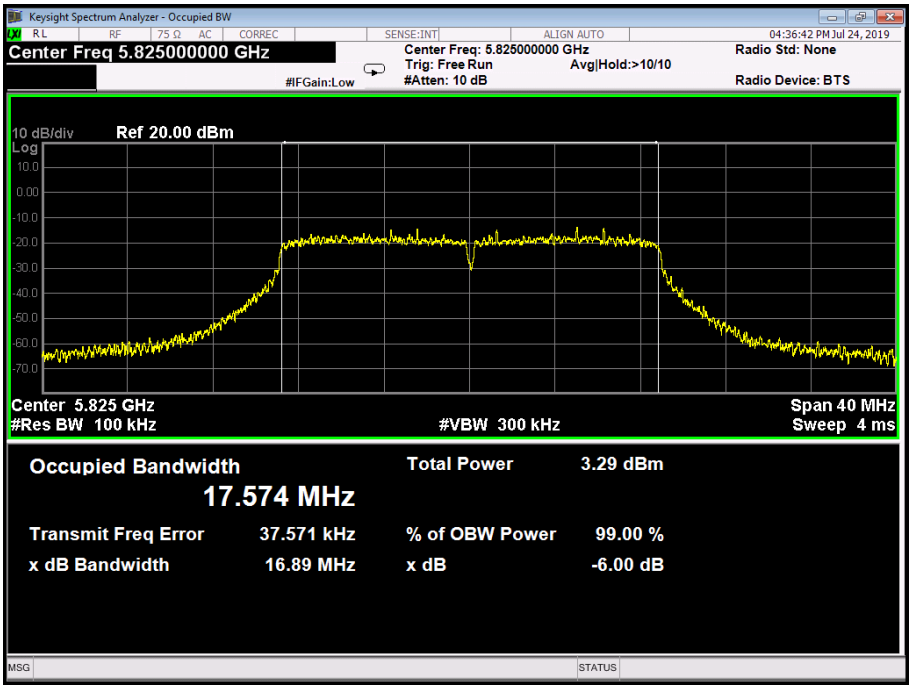
5745 MHz



802.11ac(VHT20) Mode
5785 MHz



802.11ac(VHT20) Mode
5825 MHz

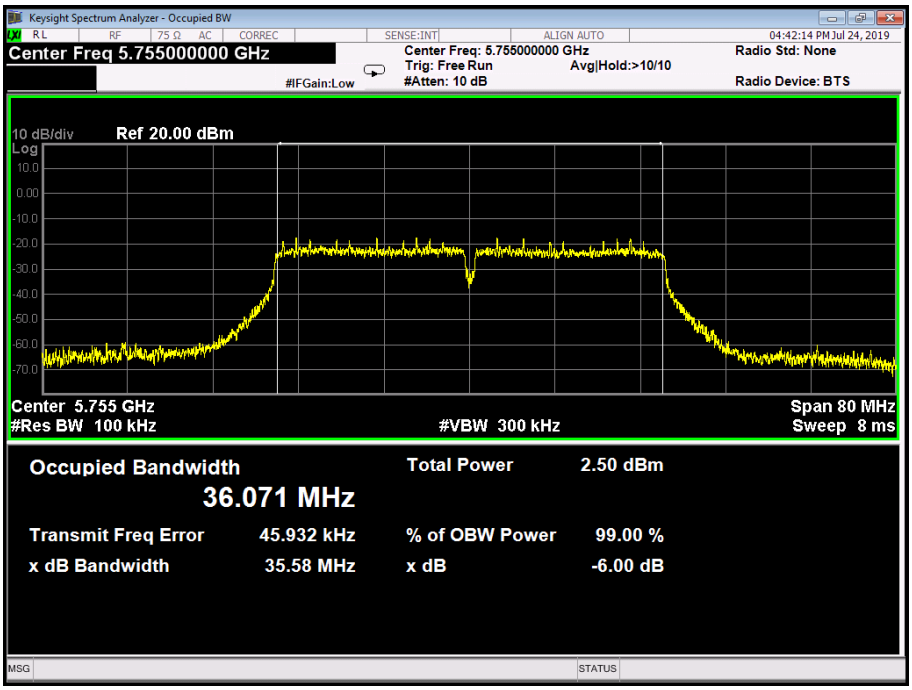


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11n(40) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.58	36.071
159	5795	35.38	36.065

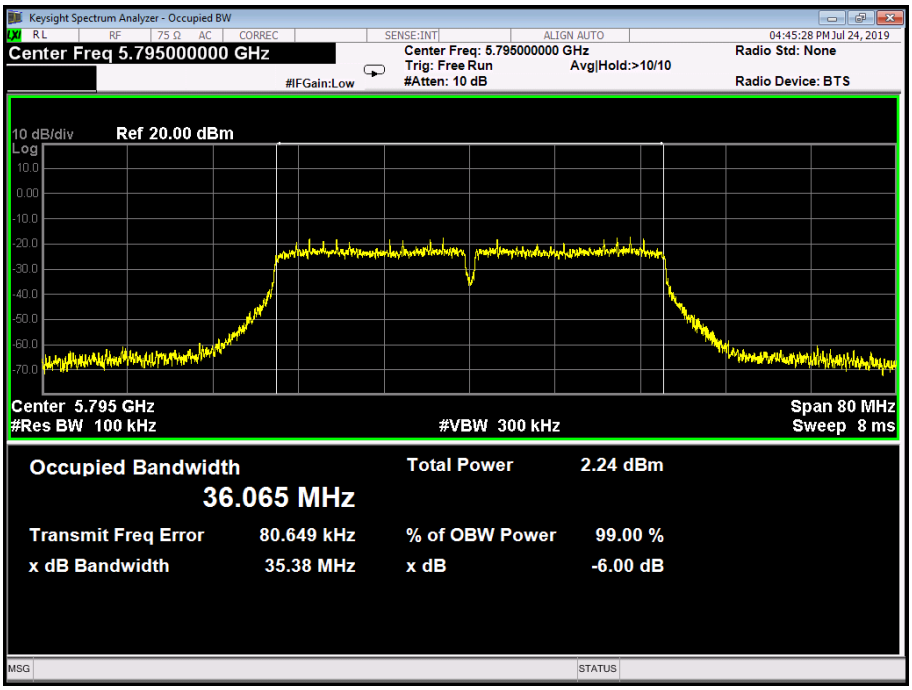
802.11n(HT40) Mode

5755 MHz



802.11n(HT40) Mode

5795 MHz

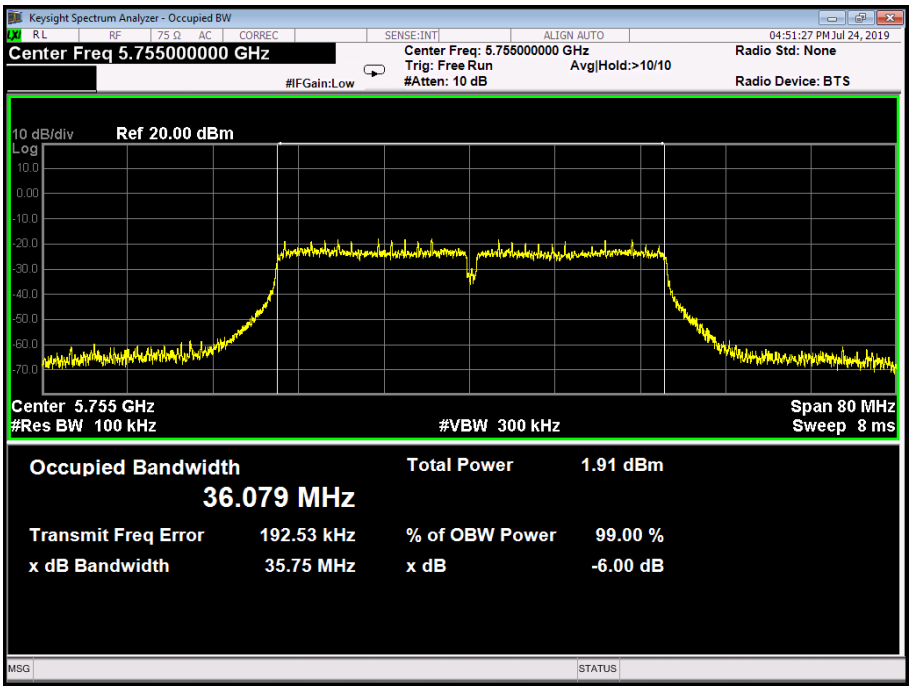


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(VHT40) Mode (U-NII-3)		

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
151	5755	35.75	36.079
159	5795	35.21	36.065

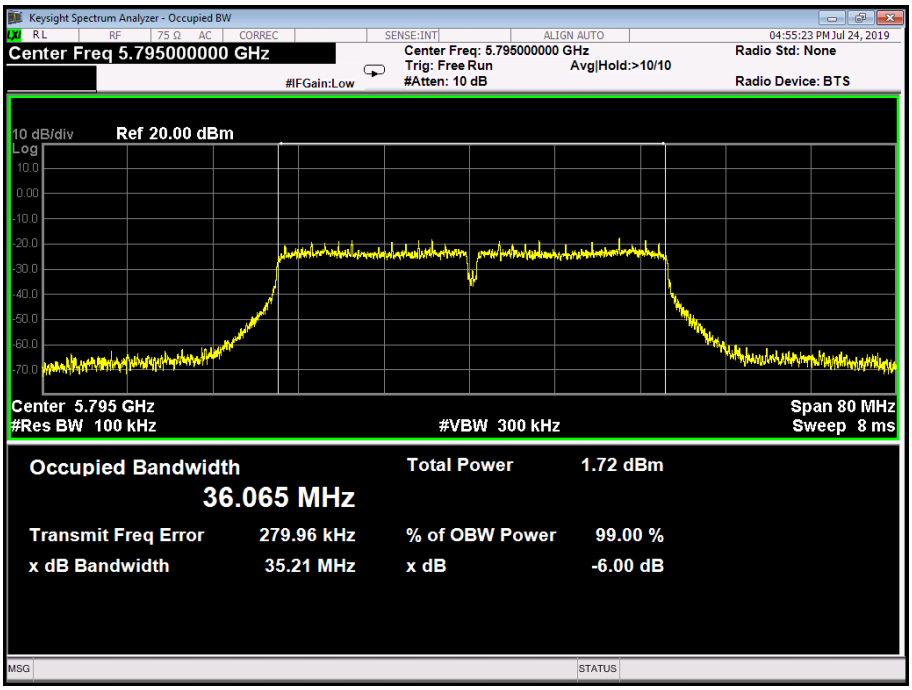
802.11ac(VHT40) Mode

5755 MHz



802.11ac(VHT40) Mode

5795 MHz

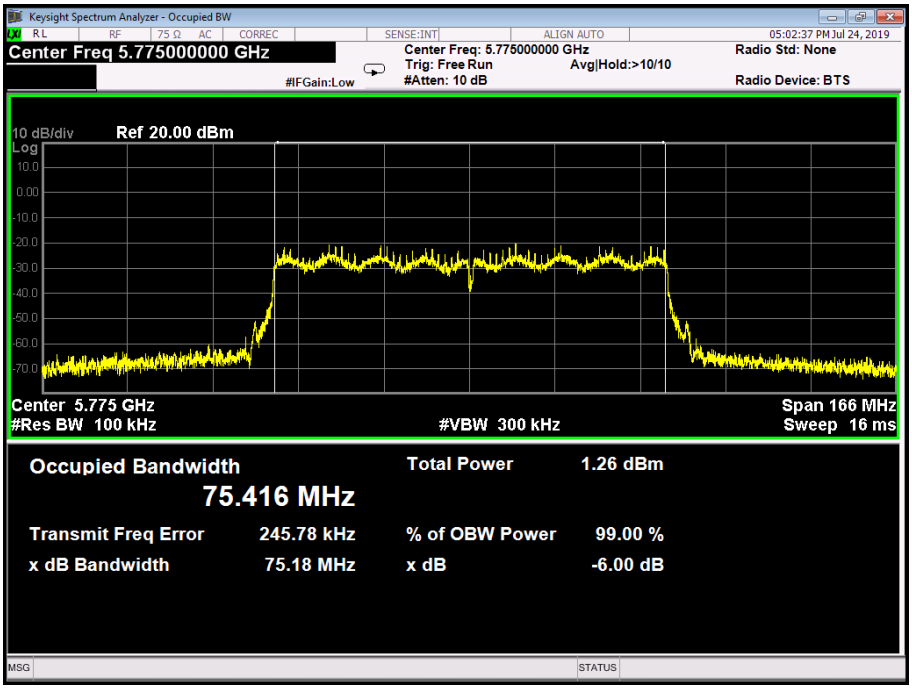


Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11ac(80) Mode (U-NII-3)		

Channel	Frequency (MHz)	26dB Bandwidth (MHz)	99% Bandwidth (MHz)
155	5775	75.18	75.416

802.11ac(VHT80) Mode

5775 MHz



Attachment E-- Output Power Test Data

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

U-NII-1					
Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5180	6.33	0	6.33	24
	5200	6.38	0	6.38	
	5240	6.30	0	6.30	
802.11n (HT20)	5180	6.86	0	6.86	
	5200	6.34	0	6.34	
	5240	6.09	0	6.09	
802.11ac (VHT20)	5180	6.82	0	6.82	
	5200	6.43	0	6.43	
	5240	6.25	0	6.25	
802.11n (HT40)	5190	6.66	0	6.66	
	5230	6.85	0	6.85	
802.11 ac(VHT40)	5190	6.20	0	6.20	
	5230	6.52	0	6.52	
802.11 ac(VHT80)	5210	4.17	0	4.17	
Result: PASS					
Please see below plots					

Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

U-NII-3

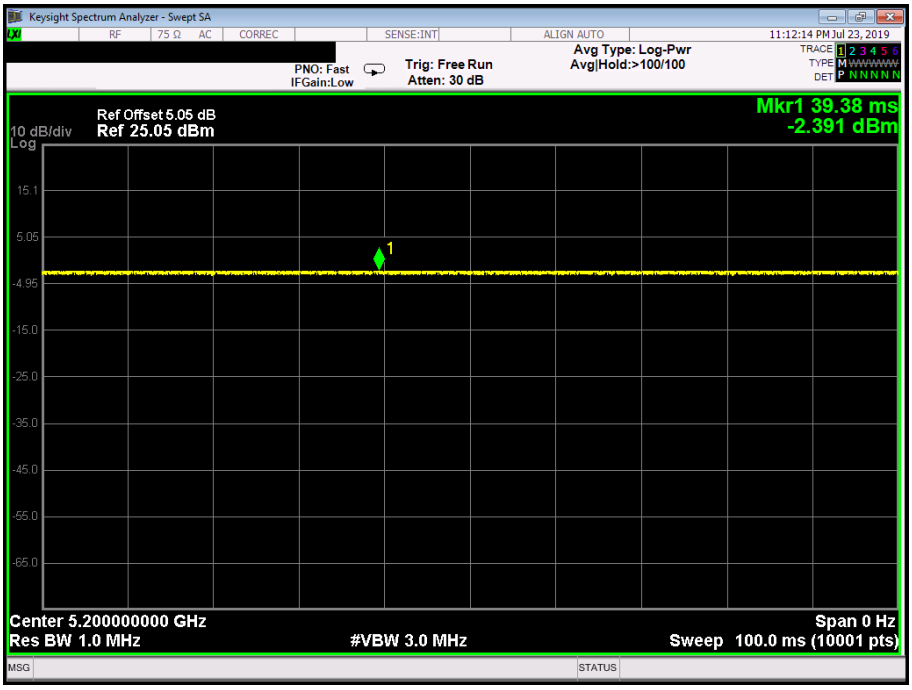
Test Mode	Frequency (MHz)	Test Data			Limit (dBm)
		Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	
802.11a	5745	6.11	0	6.11	30
	5785	6.78	0	6.78	
	5825	6.84	0	6.84	
802.11n (HT20)	5745	6.61	0	6.61	
	5785	6.56	0	6.56	
	5825	6.45	0	6.45	
802.11ac (HT20)	5745	6.18	0	6.18	
	5785	6.27	0	6.27	
	5825	6.36	0	6.36	
802.11n (HT40)	5755	6.37	0	6.37	
	5795	6.39	0	6.39	
802.11 ac(40)	5755	6.52	0	6.52	
	5795	6.45	0	6.45	
802.11 ac(80)	5775	6.17	0	6.17	

Result: PASS

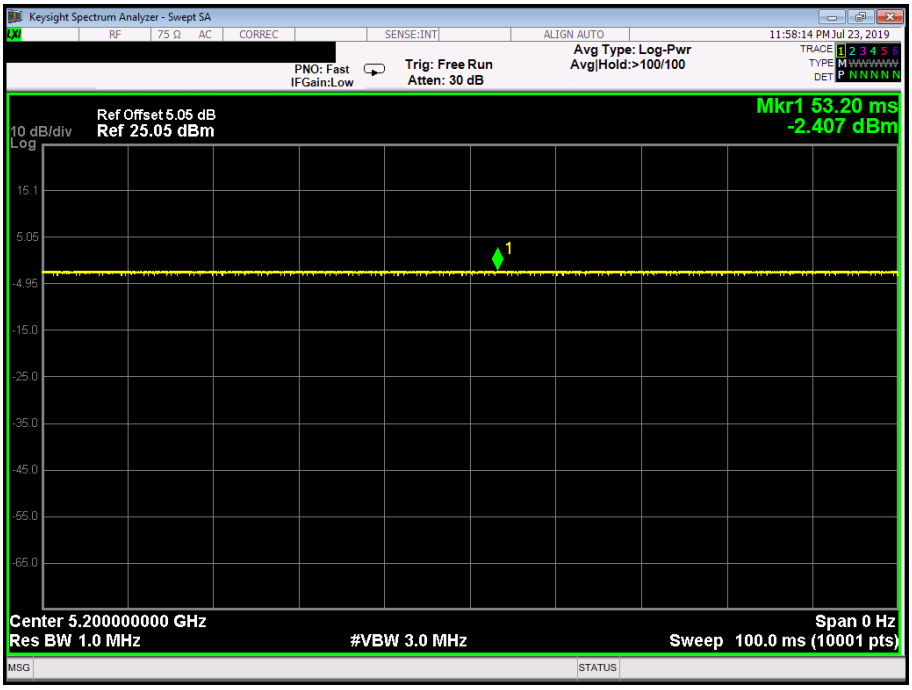
Please see below plots

Test Mode		Duty cycle
U-NII-1	802.11 a	>98%
	802.11 n(HT20)	
	802.11 ac(VHT20)	
	802.11 n(HT40)	
	802.11 ac(VHT40)	
	802.11 ac(VHT80)	
U-NII-3	802.11 a	
	802.11 n(HT20)	
	802.11 ac(VHT20)	
	802.11 n(HT40)	
	802.11 ac(VHT40)	
	802.11 ac(VHT80)	

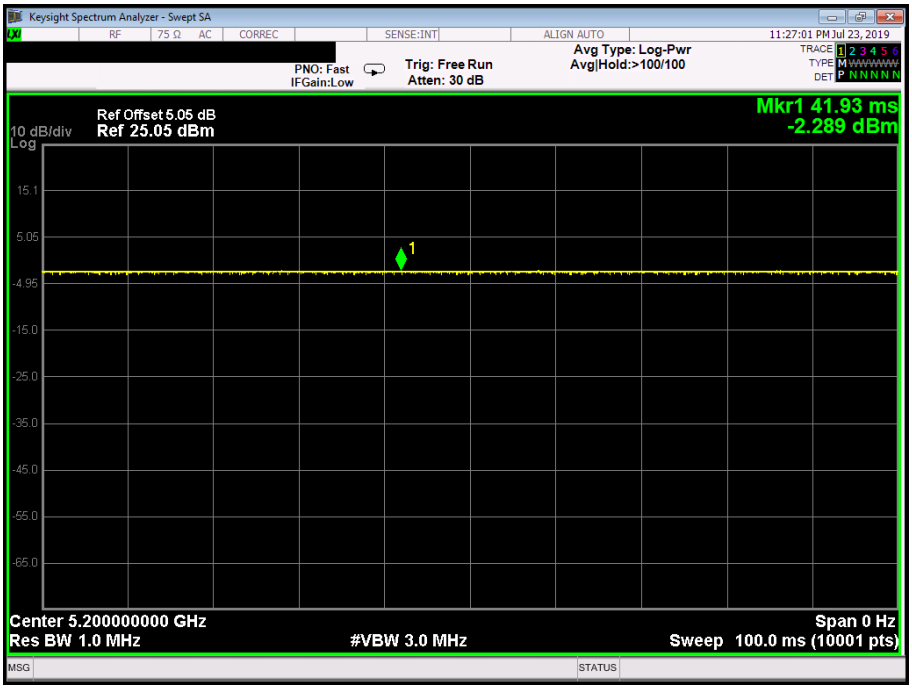
U-NII-1 802.11 a 5200 MHz

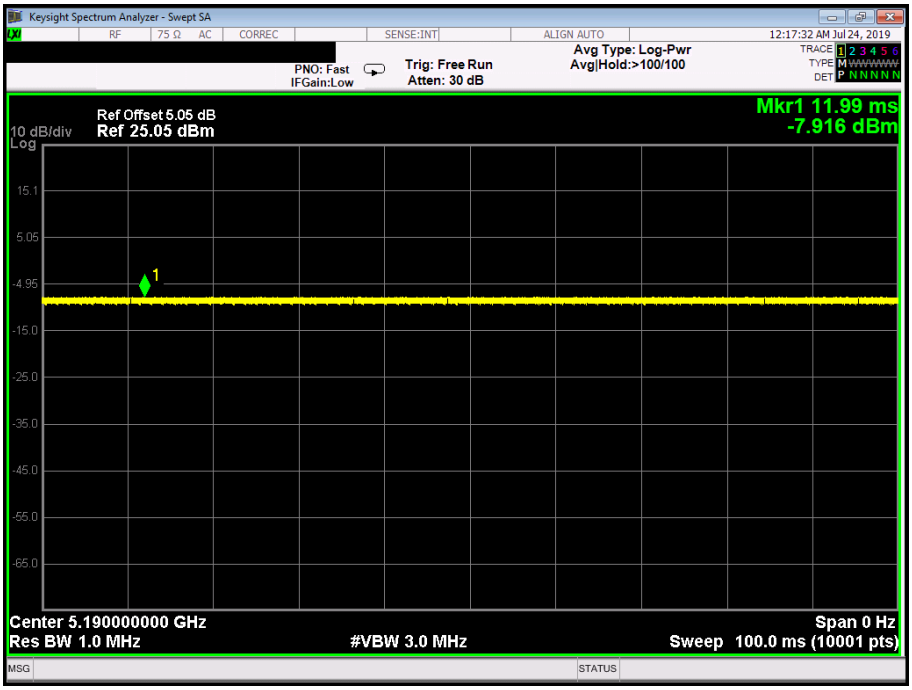
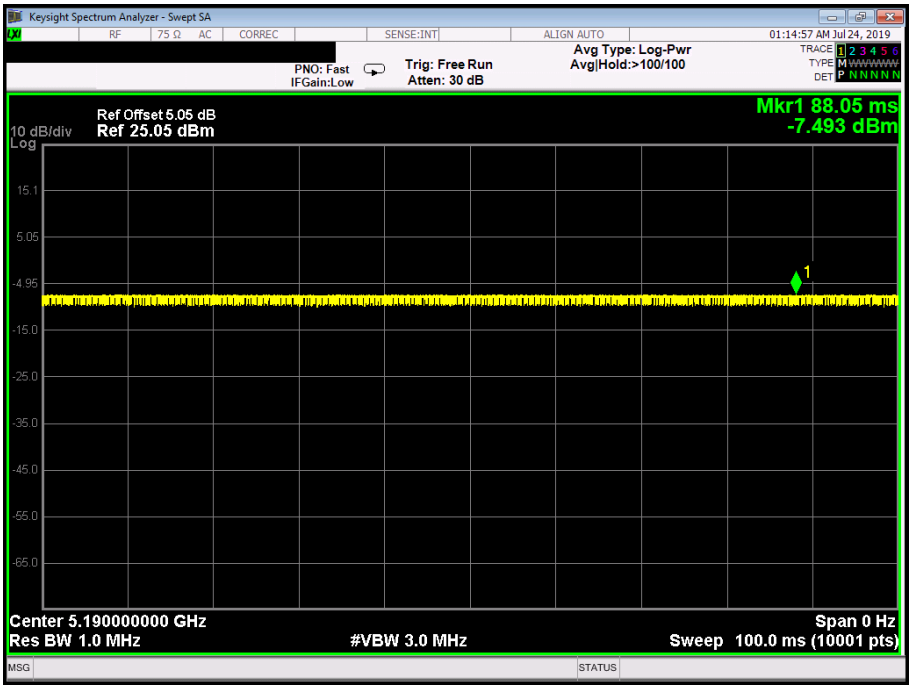


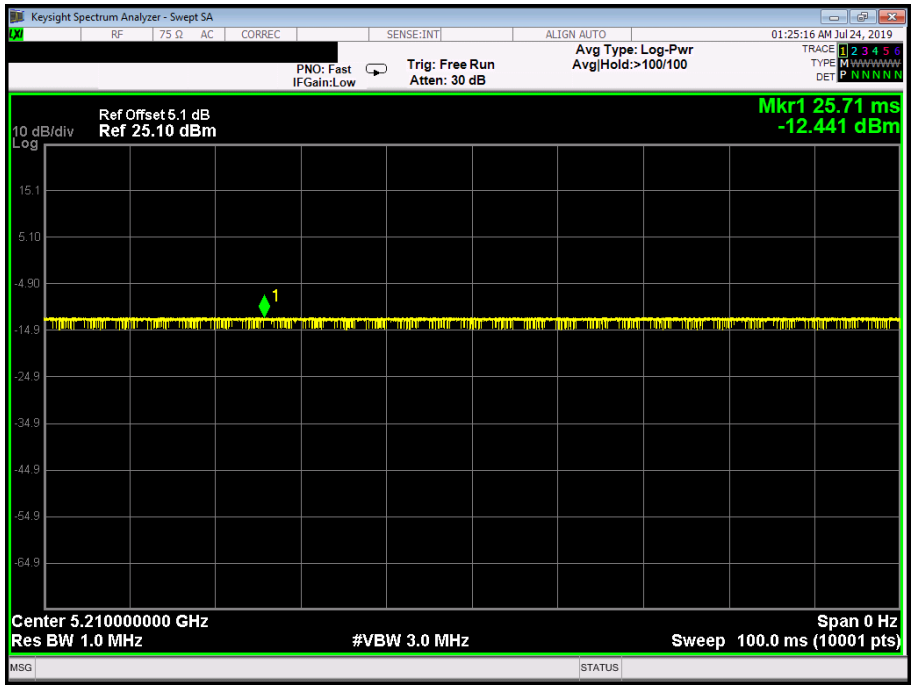
U-NII-1 802.11n(HT20) 5200 MHz

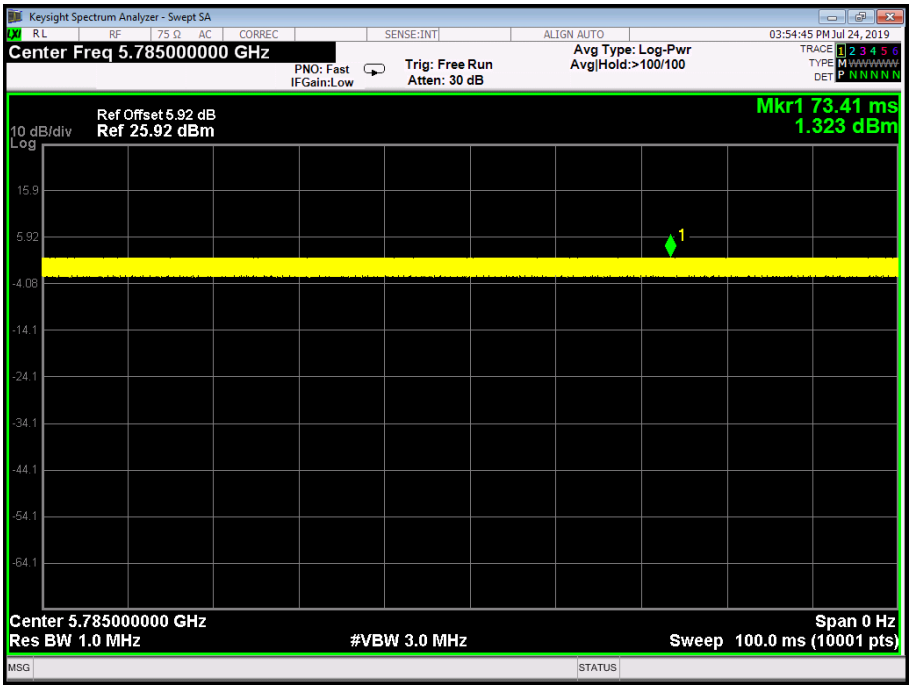
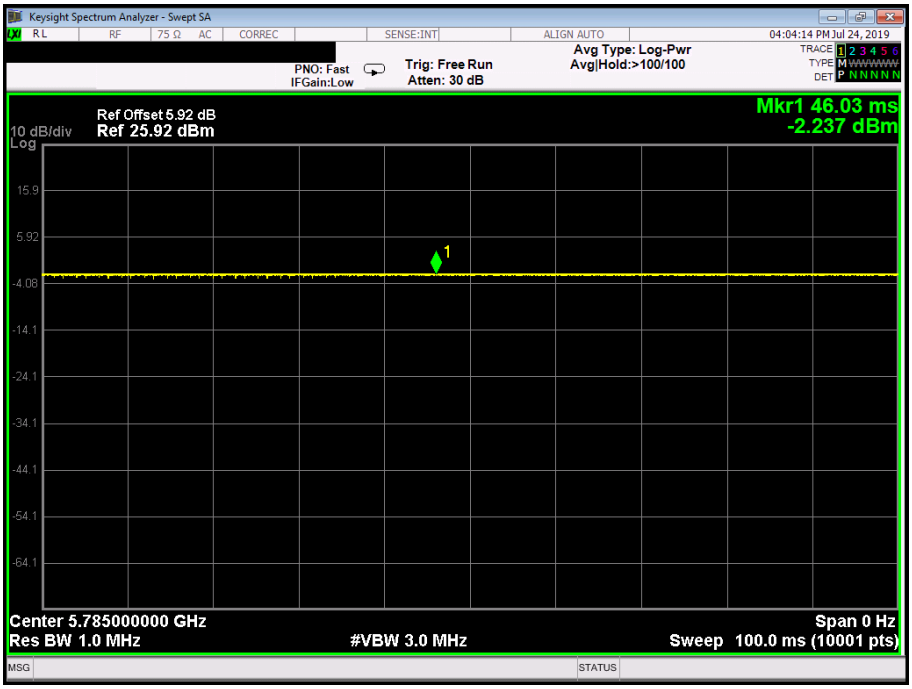


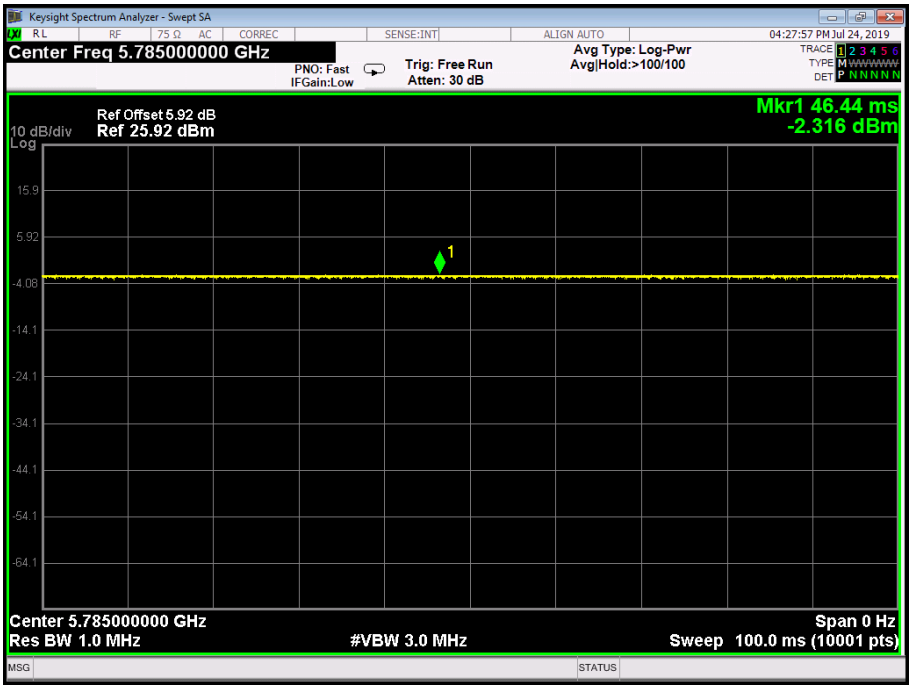
U-NII-1 802.11ac(VHT20) 5200 MHz

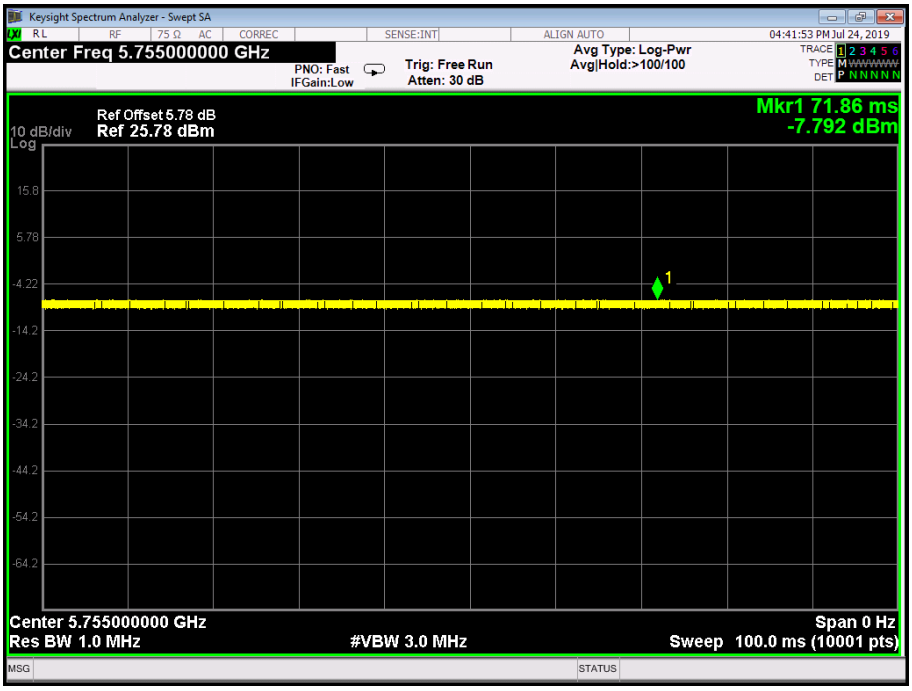
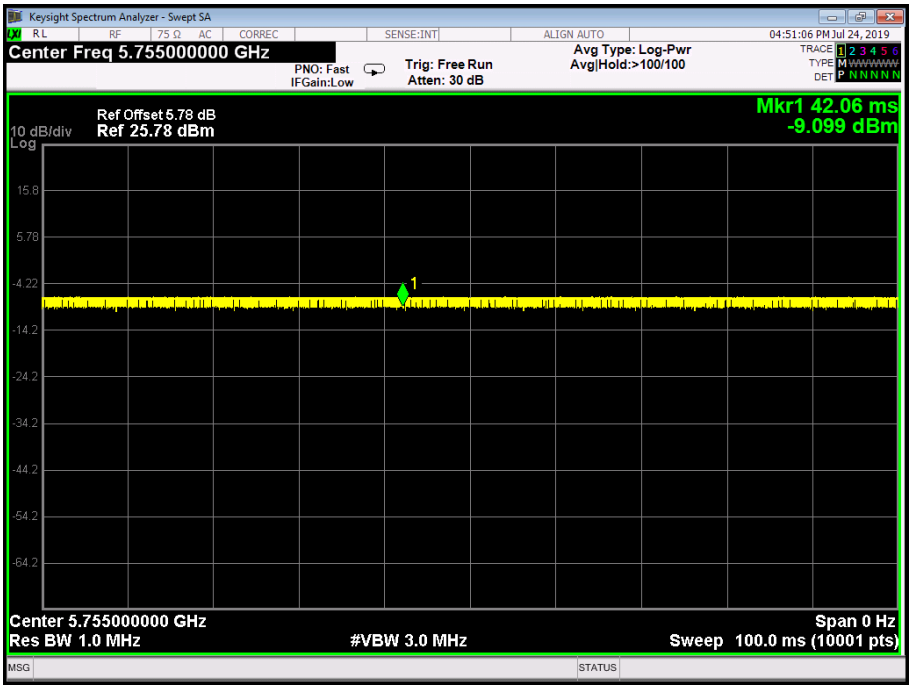

Keysight Spectrum Analyzer - Swept SA
RF
75 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
11:27:01 PM Jul 23, 2019
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
Ref Offset 5.05 dB
10 dB/div
Log
Ref 25.05 dBm
Mkr1 41.93 ms
-2.289 dBm
15.1
5.05
-4.95
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
Center 5.200000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 100.0 ms (10001 pts)
MSG
STATUS

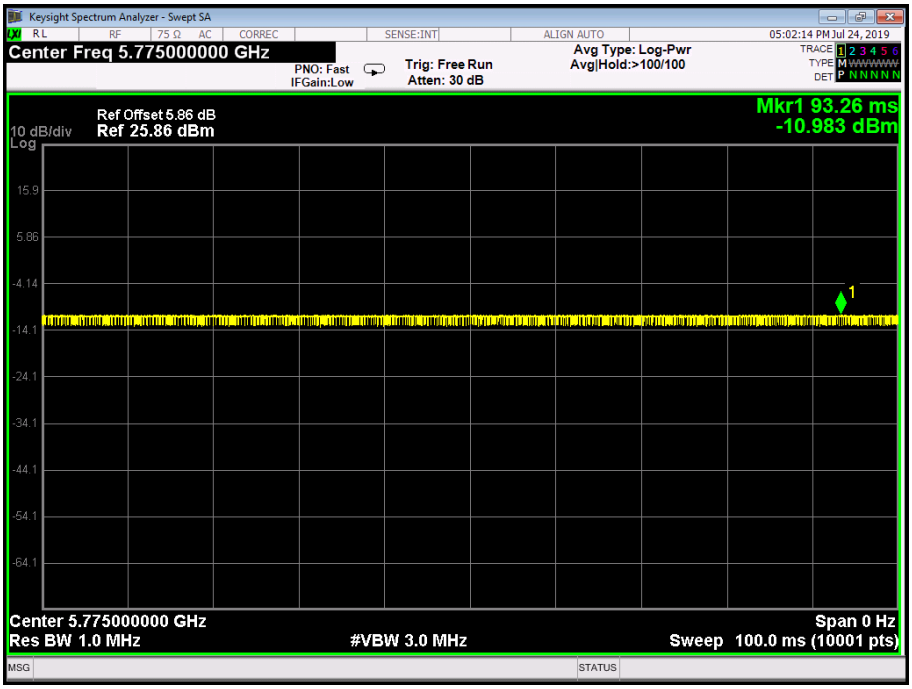
U-NII-1 802.11 n(HT40) 5190 MHz

U-NII-1 802.11 ac(VHT40) 5190 MHz

U-NII-1 802.11ac(VHT80) 5210 MHz


Keysight Spectrum Analyzer - Swept SA
RF
75 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
01:25:16 AM Jul 24, 2019
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
Ref Offset 5.1 dB
10 dB/div
Log
Ref 25.10 dBm
Mkr1 25.71 ms
-12.441 dBm
15.1
5.10
-4.90
-14.9
-24.9
-34.9
-44.9
-54.9
-64.9
1
Center 5.210000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 100.0 ms (10001 pts)
MSG
STATUS

U-NII-3 802.11 a 5785 MHz

U-NII-3 802.11n(HT20) 5785 MHz

U-NII-3 802.11ac(VHT20) 5785 MHz


Keysight Spectrum Analyzer - Swept SA
RL
RF
75 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
04:27:57 PM Jul 24, 2019
Center Freq 5.785000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
Ref Offset 5.92 dB
10 dB/div
Log
Ref 25.92 dBm
Mkr1 46.44 ms
-2.316 dBm
15.9
5.92
-4.08
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
1
Center 5.785000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 100.0 ms (10001 pts)
MSG
STATUS

U-NII-3 802.11 n(HT40) 5755 MHz

U-NII-3 802.11 ac(VHT40) 5755 MHz

U-NII-3 802.11ac(VHT80) 5775 MHz

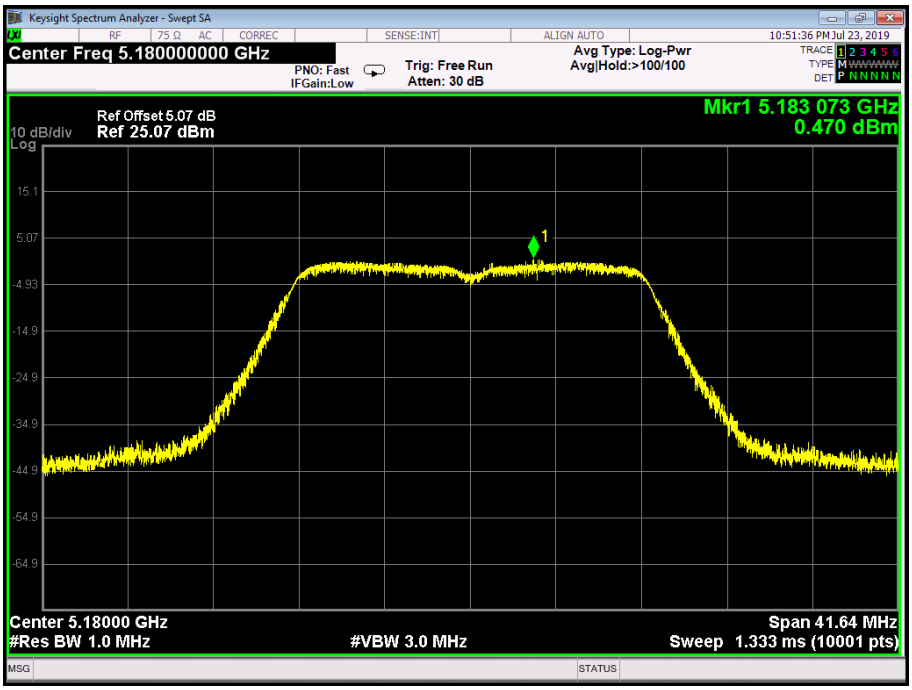

Keysight Spectrum Analyzer - Swept SA
RL
RF
75 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
05:02:14 PM Jul 24, 2019
Center Freq 5.775000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Ref Offset 5.86 dB
10 dB/div
Log
Ref 25.86 dBm
Mkr1 93.26 ms
-10.983 dBm
15.9
5.86
-4.14
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
1
Center 5.775000000 GHz
Res BW 1.0 MHz
#VBW 3.0 MHz
Span 0 Hz
Sweep 100.0 ms (10001 pts)
MSG
STATUS

Attachment F-- Power Spectral Density Test Data

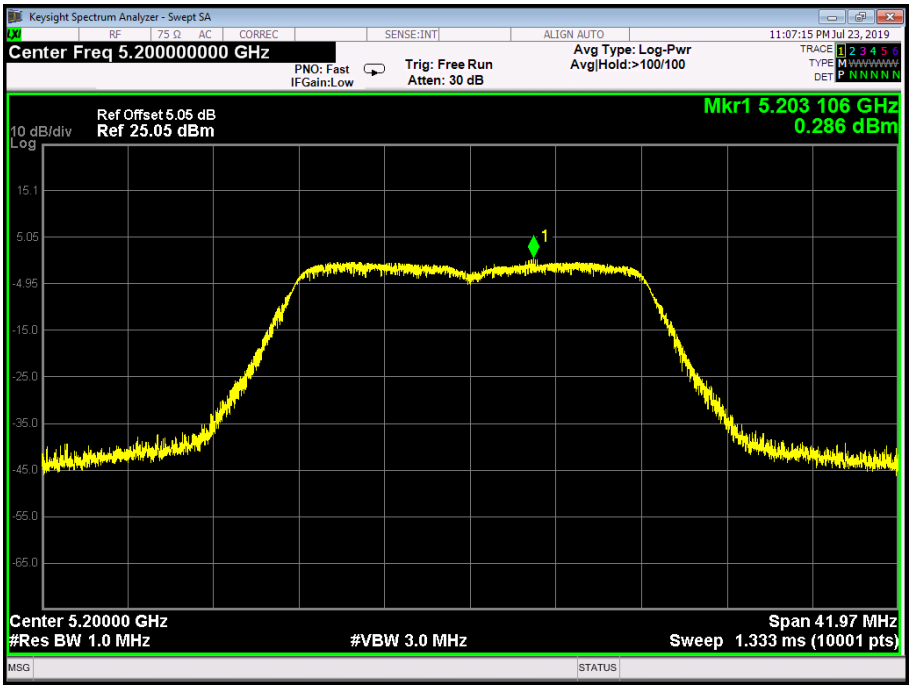
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

U-NII-1			
Test Mode	Frequency (MHz)	Test Data Power Density (dBm/MHz)	Limit (dBm/MHz)
802.11a	5180	0.470	11
	5200	0.286	
	5240	1.094	
802.11n (HT20)	5180	1.086	
	5200	0.562	
	5240	0.369	
802.11ac (HT20)	5180	0.687	
	5200	0.390	
	5240	0.096	
802.11n (HT40)	5190	-2.829	
	5230	-2.544	
802.11ac(40)	5190	-3.913	
	5230	-3.675	
802.11ac(80)	5210	-8.725	
Result: PASS			
Test plots please refer to below pages:			

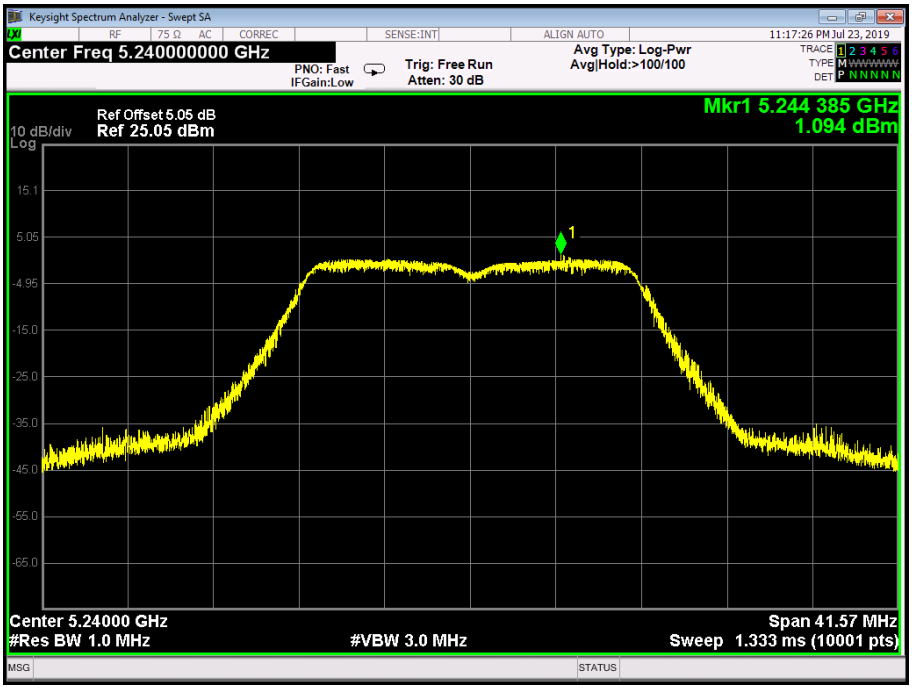
802.11 a 5180 MHz

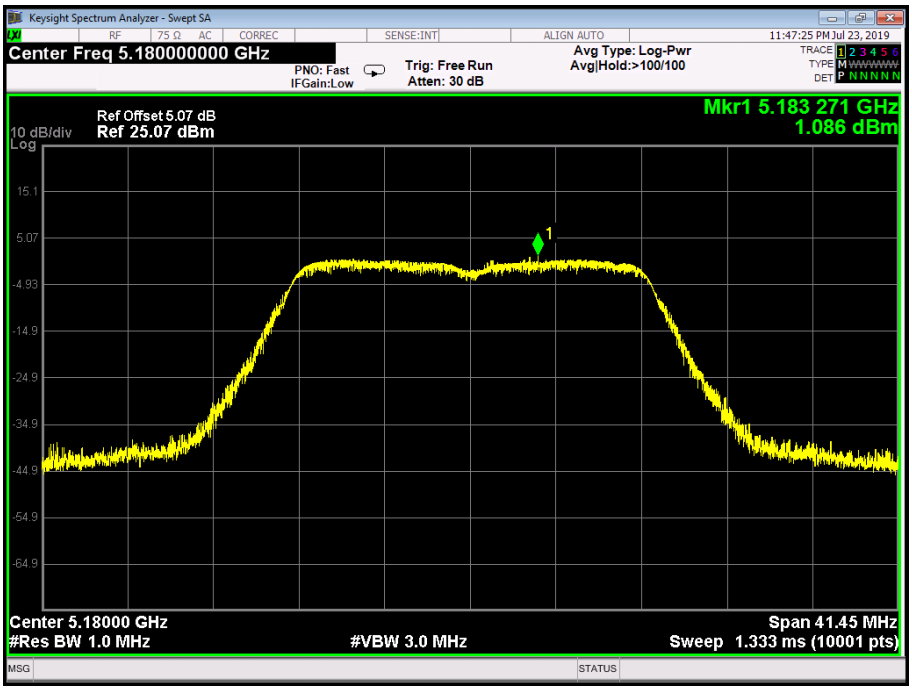
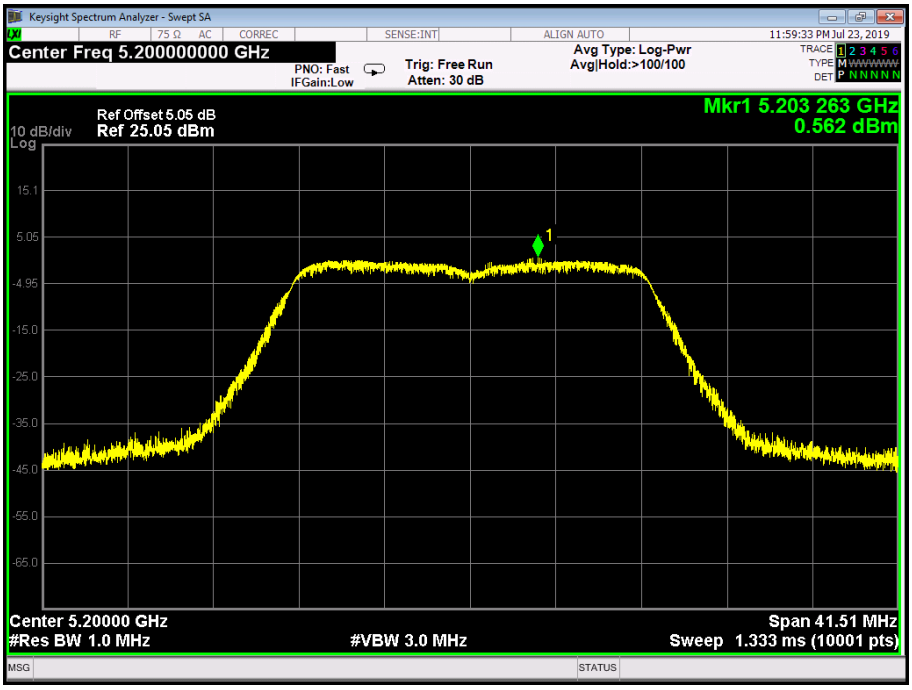


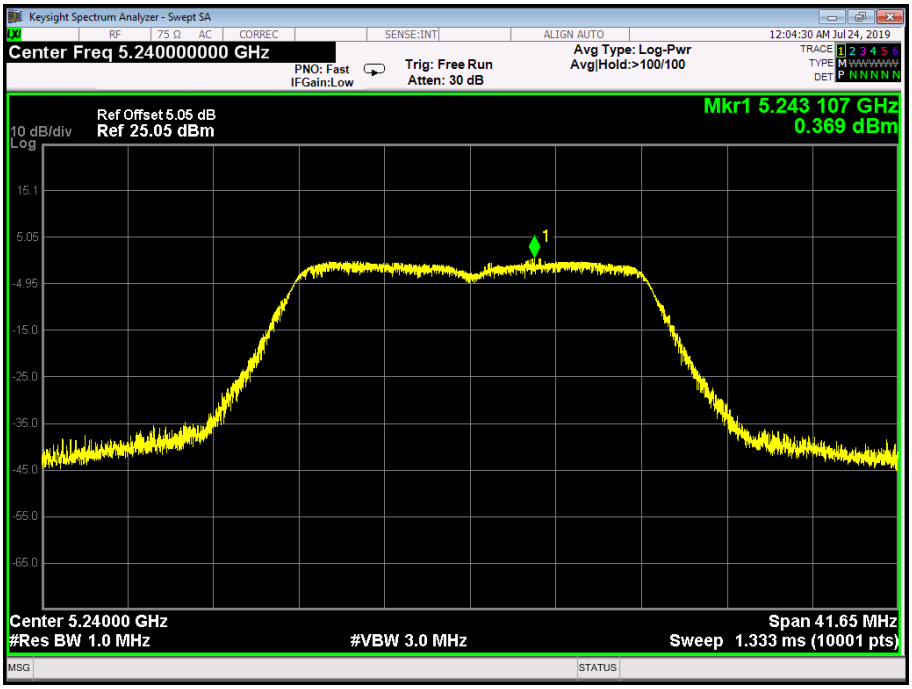
802.11 a 5200 MHz



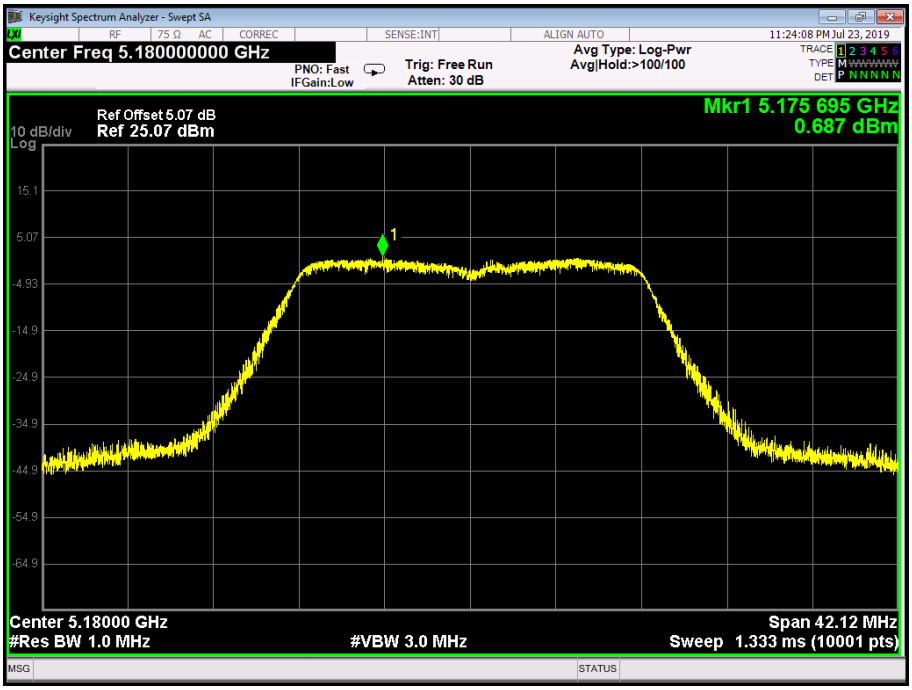
802.11 a 5240 MHz


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
11:17:26 PM Jul 23, 2019
Ref Offset 5.05 dB
10 dB/div
Log
Ref 25.05 dBm
Mkr1 5.244 385 GHz
1.094 dBm
15.1
5.05
-4.95
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 41.57 MHz
Sweep 1.333 ms (10001 pts)

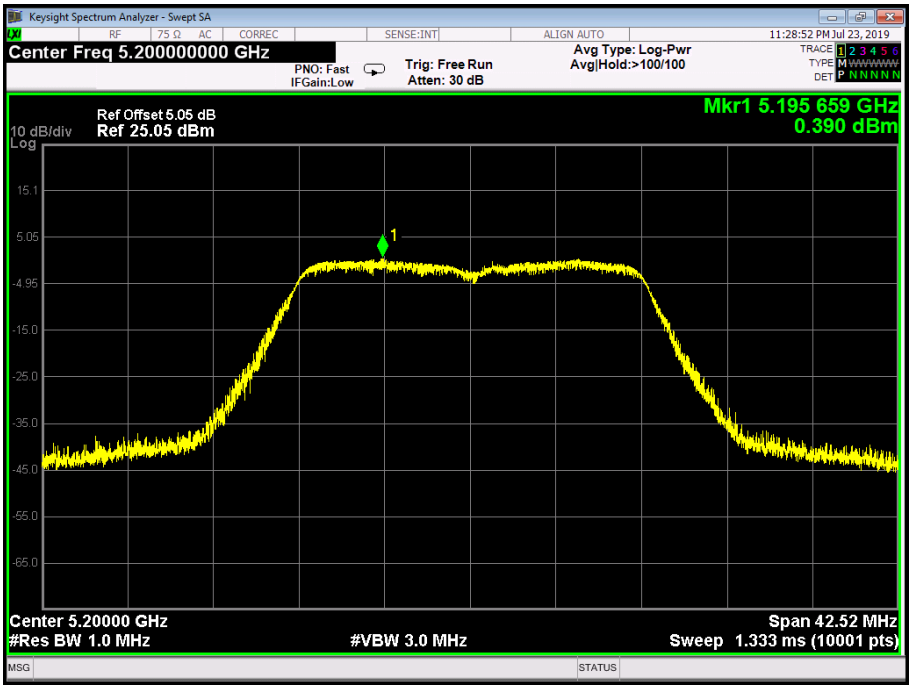
802.11 n(20) 5180 MHz

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
12:04:30 AM Jul 24, 2019
Ref Offset 5.05 dB
10 dB/div
Log
Ref 25.05 dBm
Mkr1 5.243 107 GHz
0.369 dBm
15.1
5.05
-4.95
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 41.65 MHz
Sweep 1.333 ms (10001 pts)

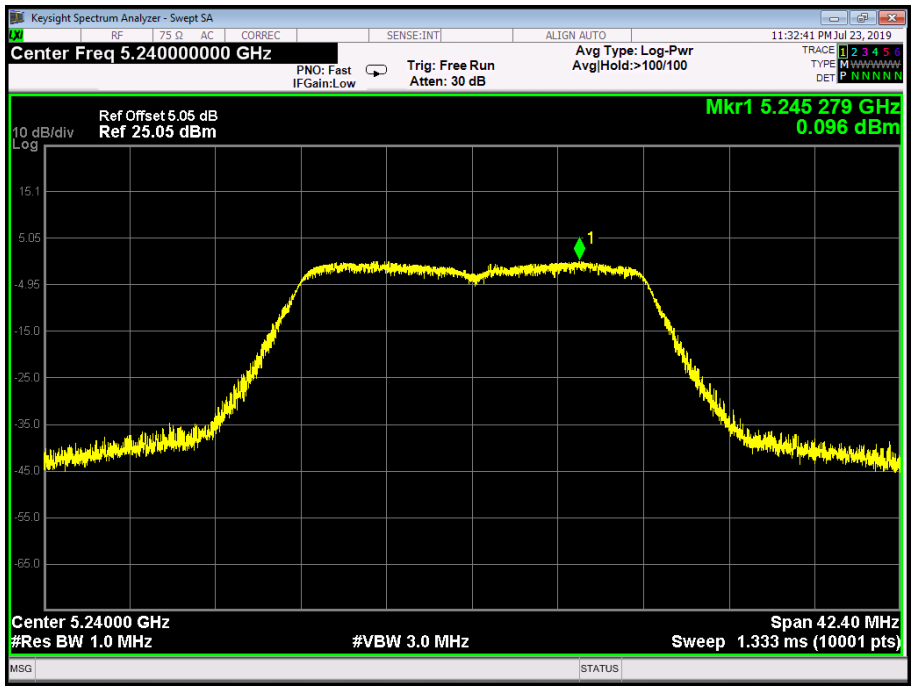
802.11 ac(20) 5180 MHz

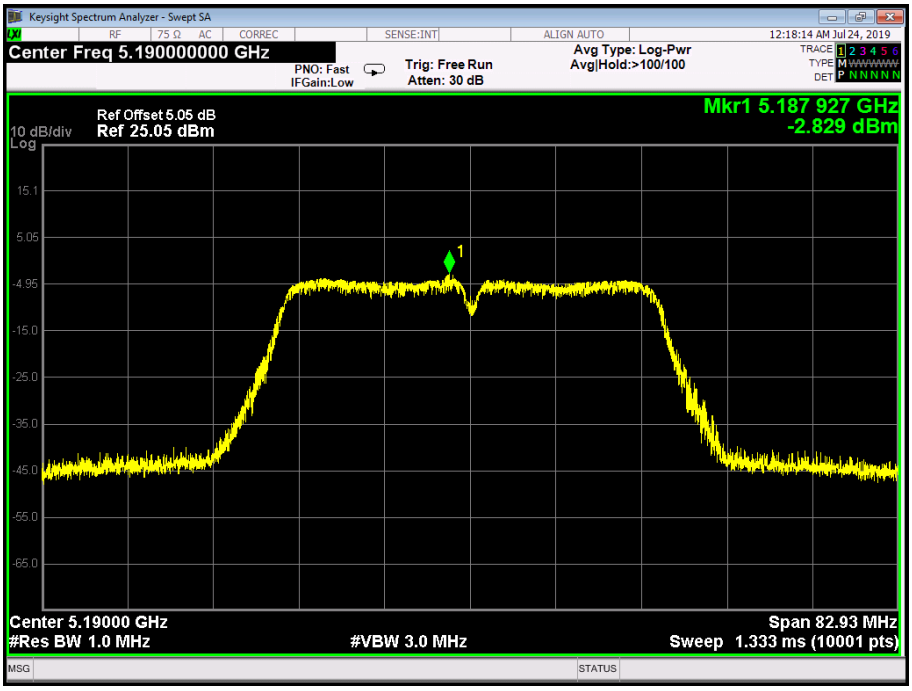


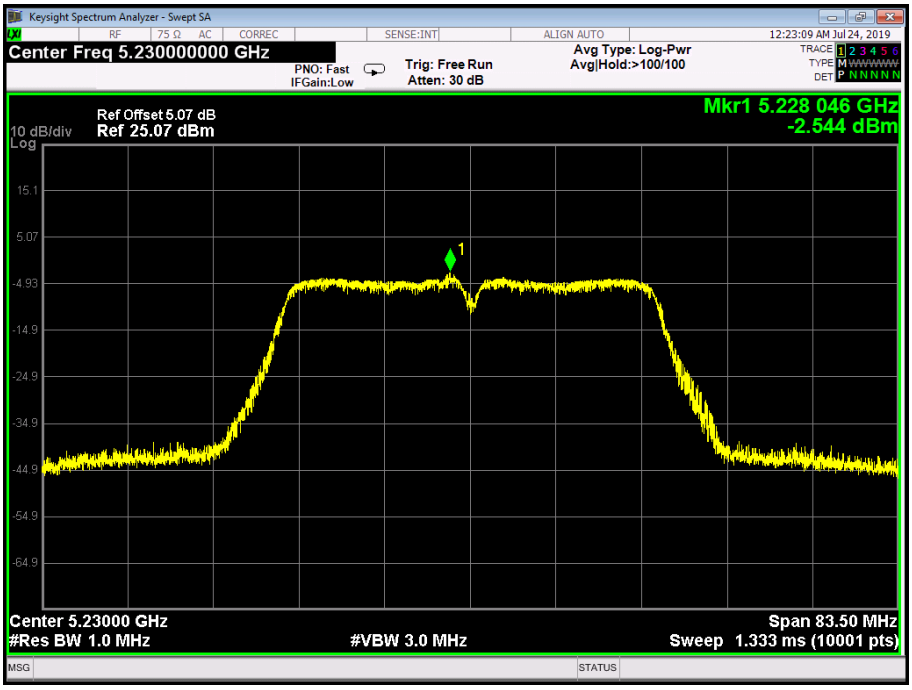
802.11 ac(20) 5200 MHz

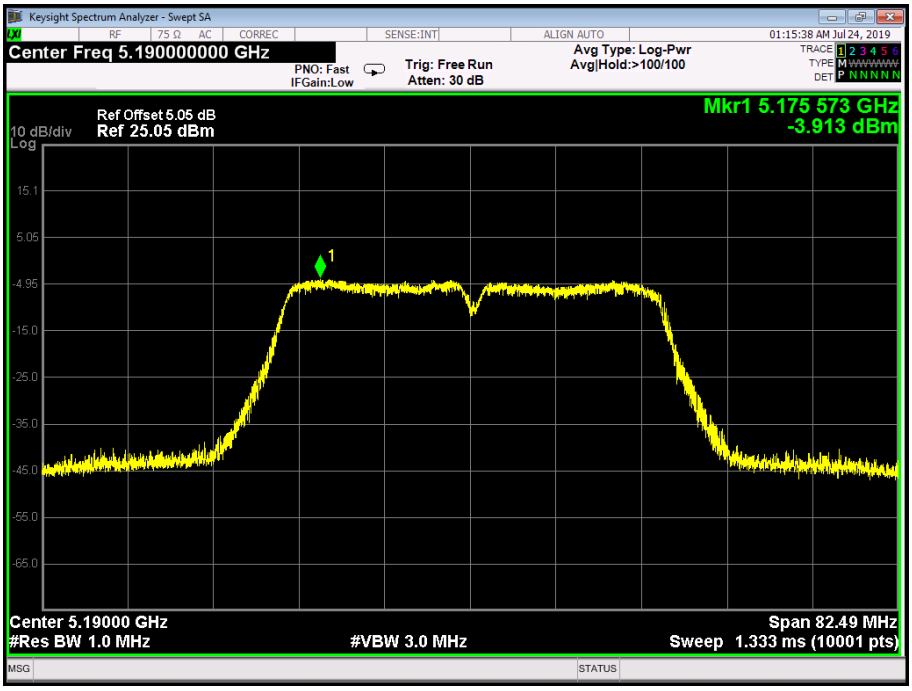


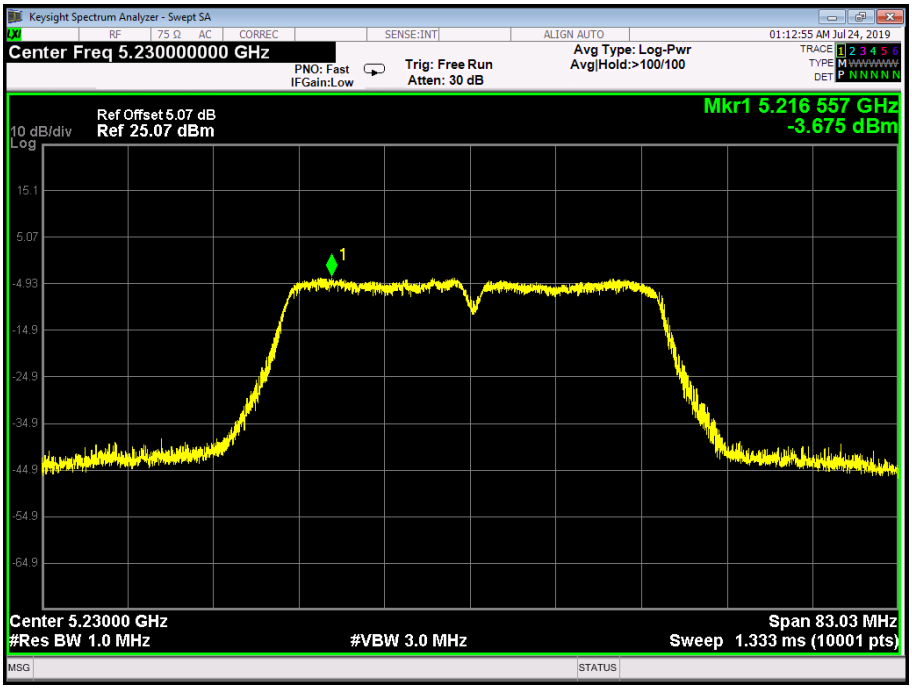
802.11 ac(20) 5240 MHz


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
11:32:41 PM Jul 23, 2019
Ref Offset 5.05 dB
10 dB/div
Log
Ref 25.05 dBm
Mkr1 5.245 279 GHz
0.096 dBm
15.1
5.05
-4.95
-15.0
-25.0
-35.0
-45.0
-55.0
-65.0
Center 5.24000 GHz
#Res BW 1.0 MHz
#VBW 3.0 MHz
Span 42.40 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

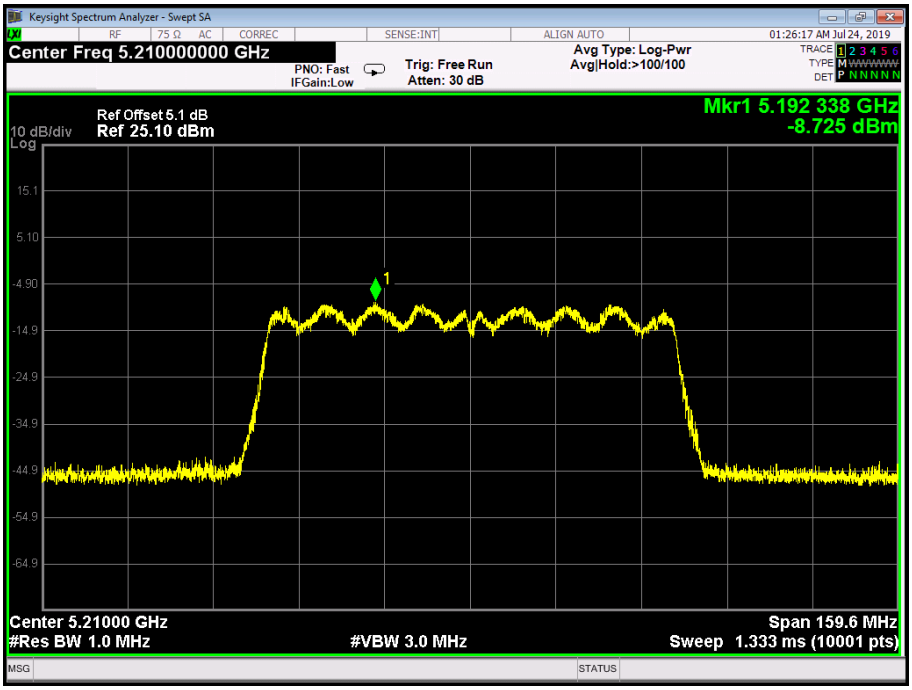
802.11 n(40) 5190 MHz


802.11 n(40) 5230 MHz


802.11 ac(40) 5190 MHz


802.11 ac(40) 5230 MHz


802.11 ac(80) 5210 MHz



Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		

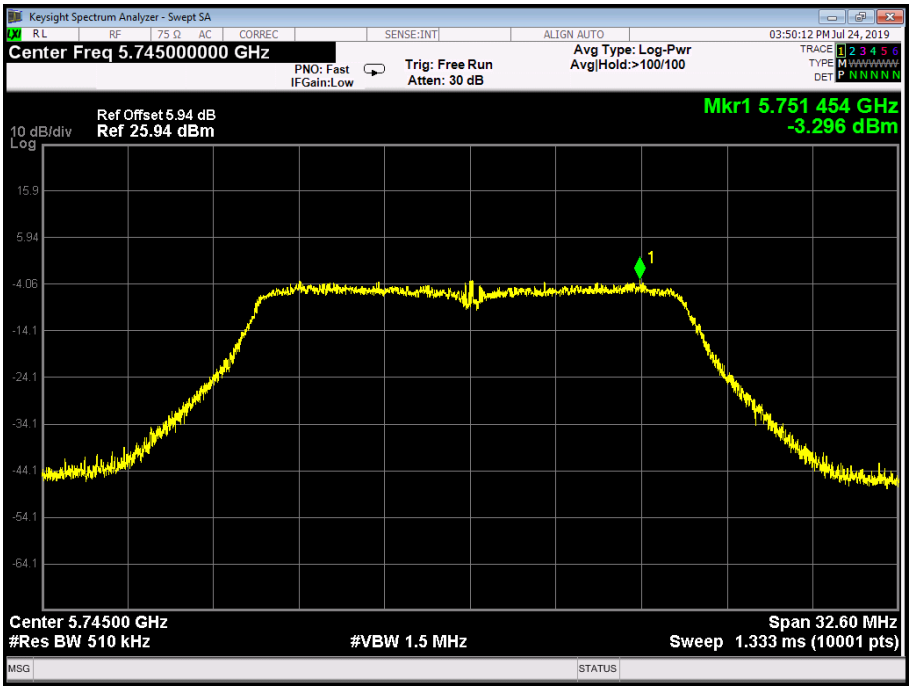
U-NII-3

Test Mode	Frequency (MHz)	Test Data	Limit (dBm/500kHz)
		Power Density (dBm/500kHz)	
802.11a	5745	-3.296	30
	5785	-2.634	
	5825	-2.464	
802.11n (HT20)	5745	-3.027	
	5785	-2.961	
	5825	-2.971	
802.11ac (HT20)	5745	-3.489	
	5785	-3.385	
	5825	-3.277	
802.11n (HT40)	5755	-7.171	
	5795	-7.429	
802.11ac(40)	5755	-7.252	
	5795	-7.426	
802.11ac(80)	5775	-10.413	

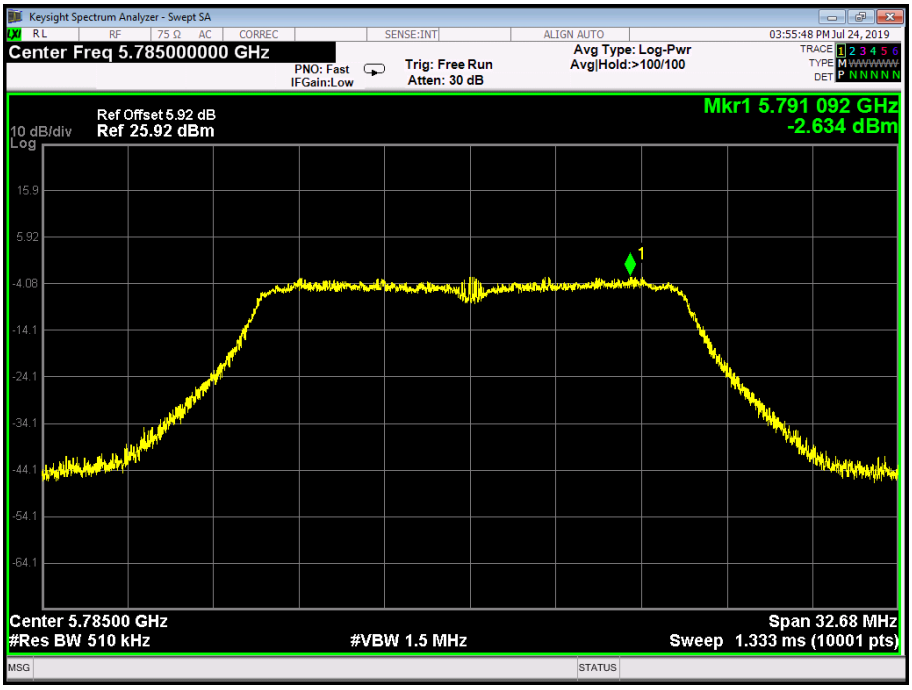
Result: PASS

Test plots please refer to below pages:

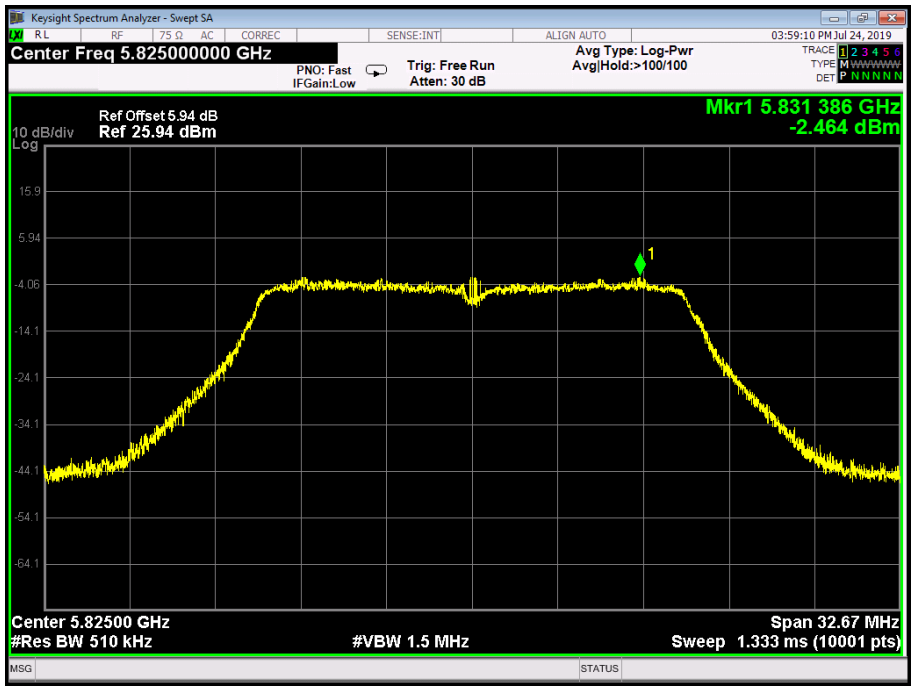
802.11 a 5745 MHz

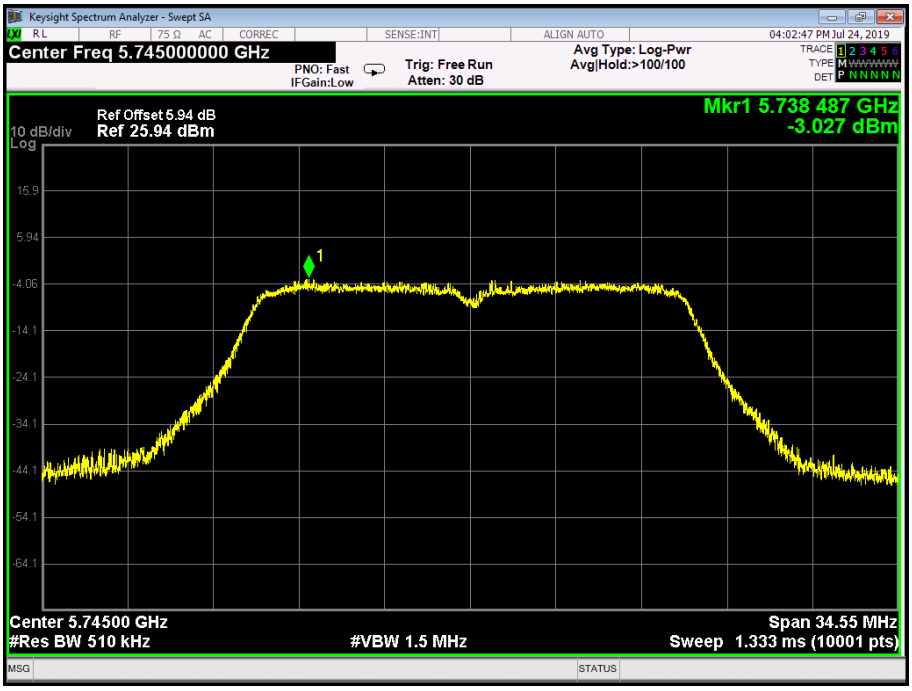
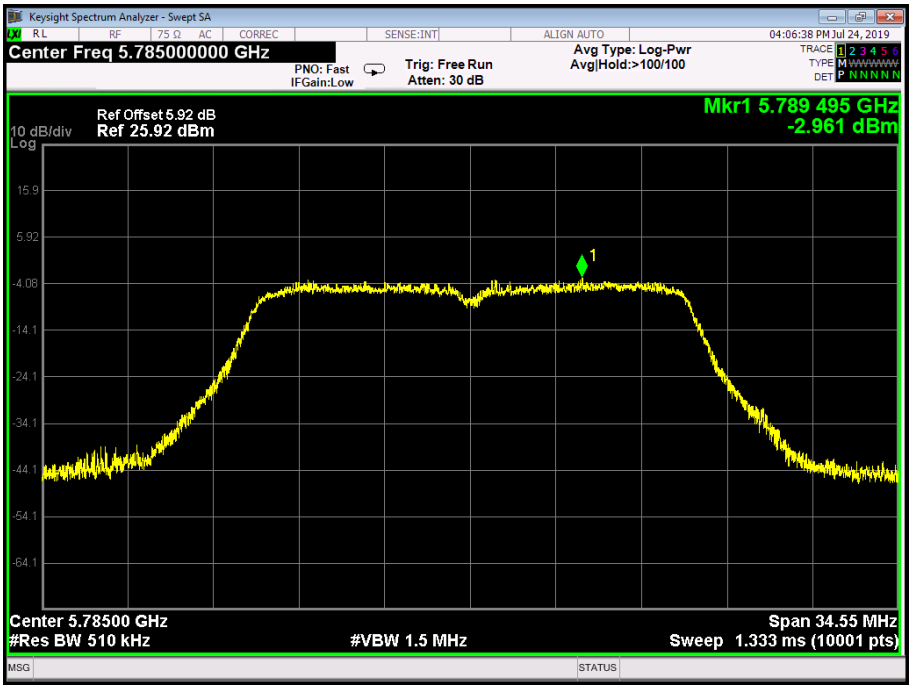


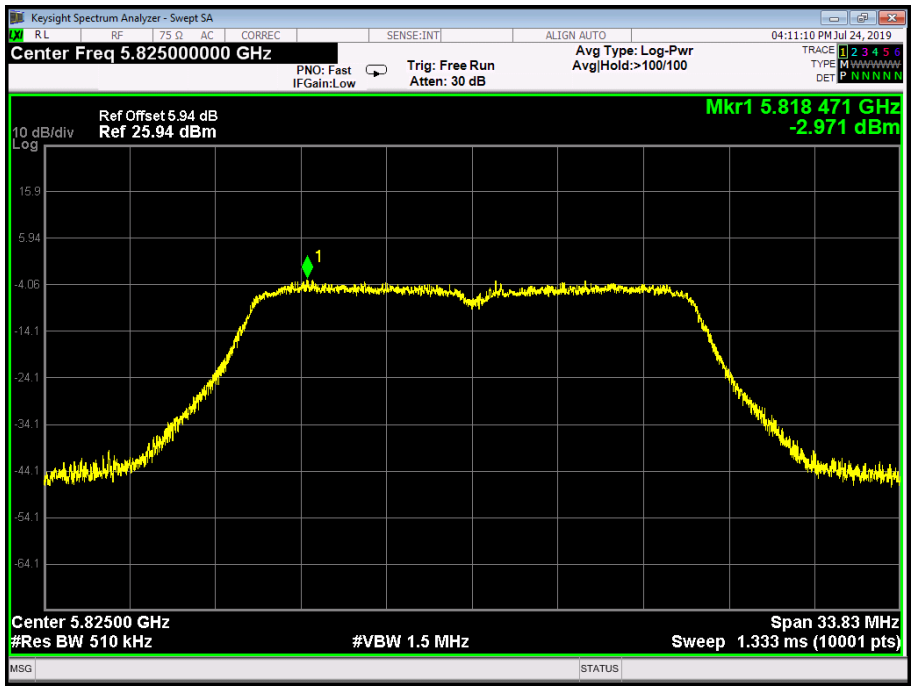
802.11 a 5785 MHz

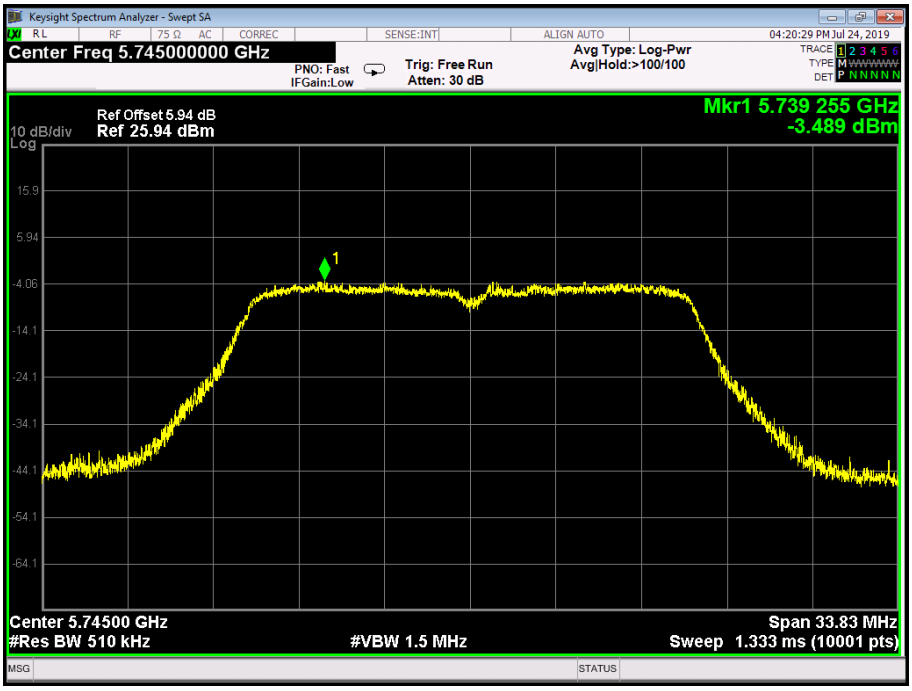
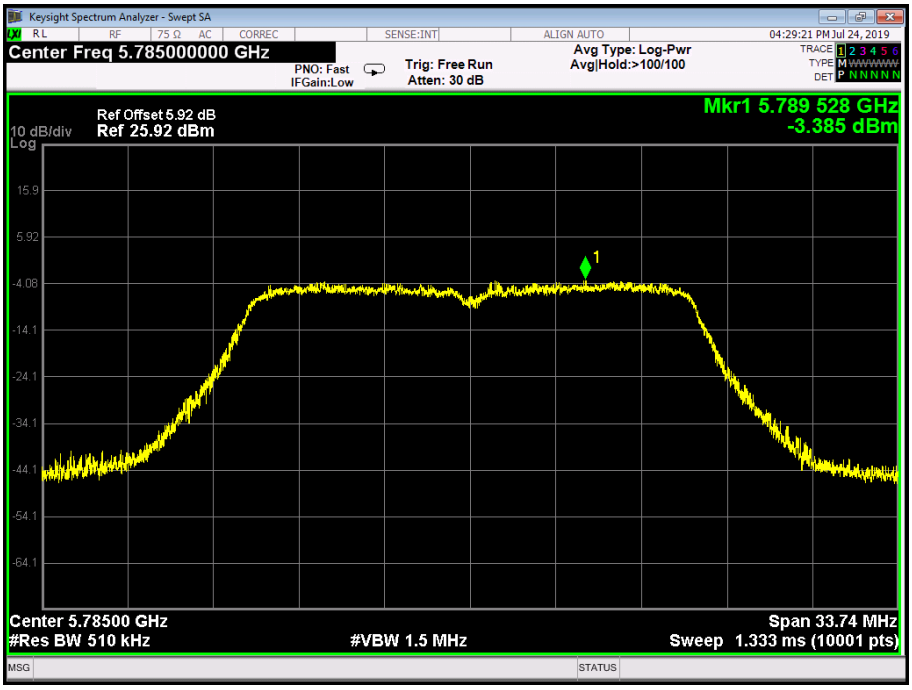


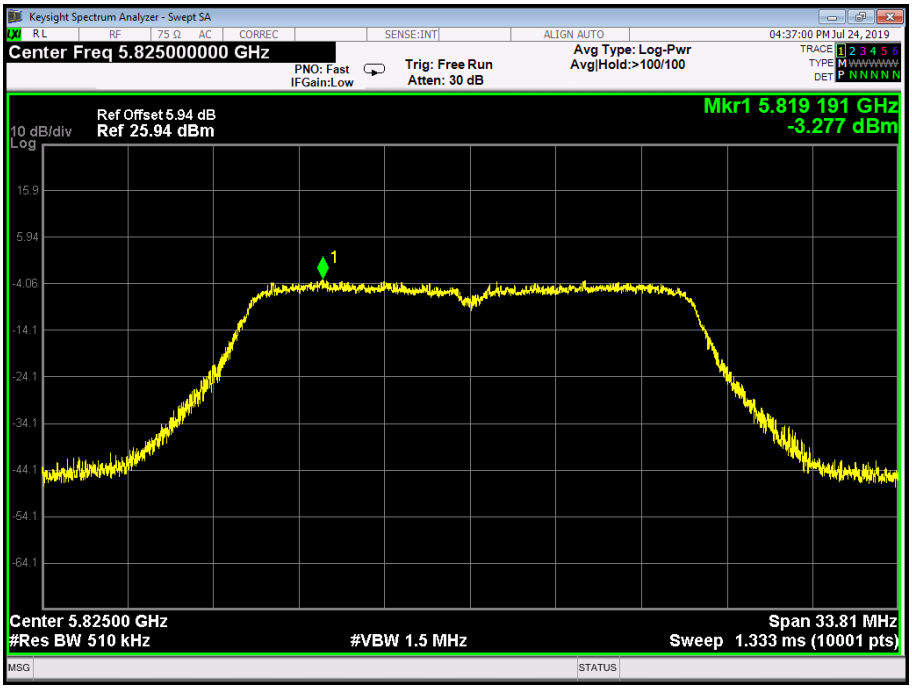
802.11 a 5825 MHz

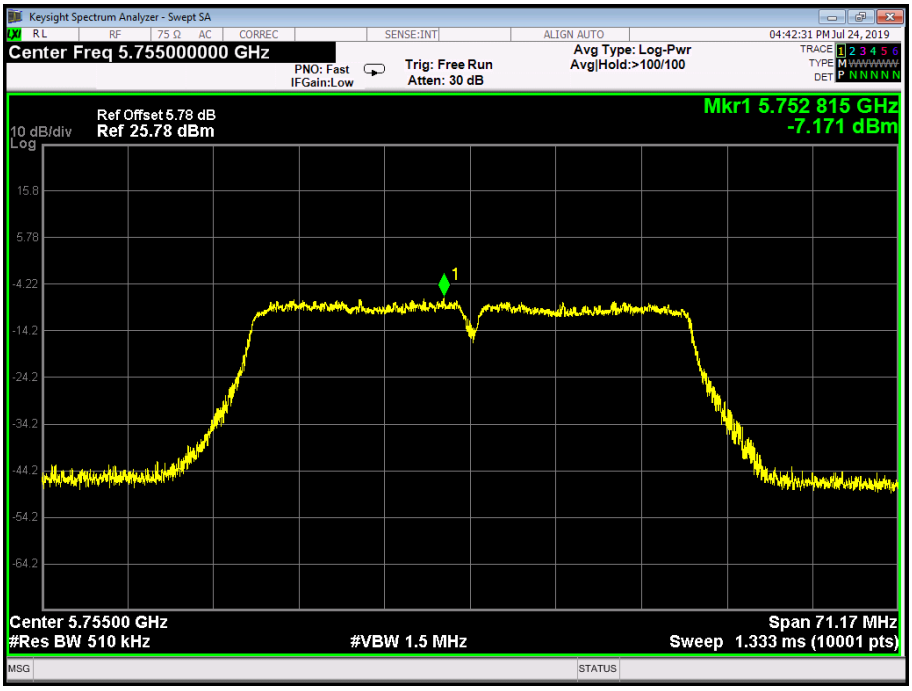

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
03:59:10 PM Jul 24, 2019
Ref Offset 5.94 dB
10 dB/div
Log
Ref 25.94 dBm
Mkr1 5.831 386 GHz
-2.464 dBm
15.9
5.94
-4.06
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 32.67 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

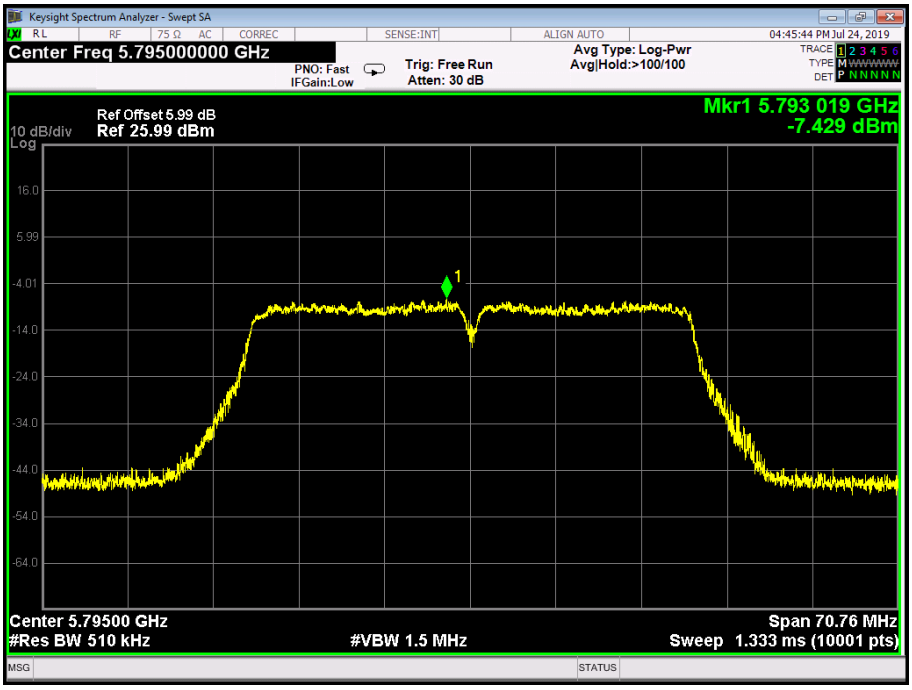
802.11 n(20) 5745 MHz

802.11 n(20) 5785 MHz

802.11 n(20) 5825 MHz

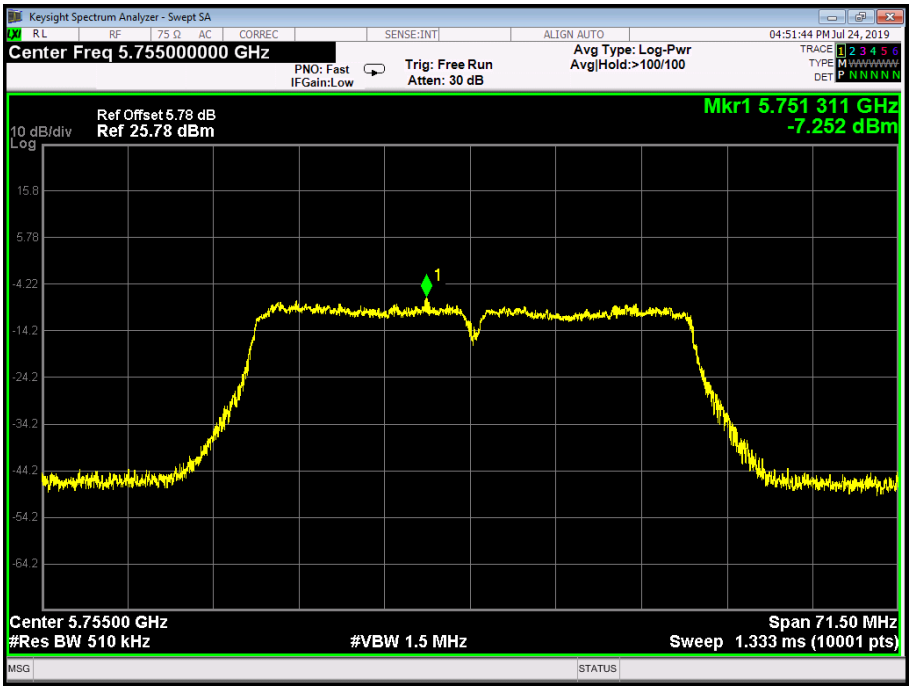

Keysight Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
04:11:10 PM Jul 24, 2019
Ref Offset 5.94 dB
10 dB/div
Log
Ref 25.94 dBm
Mkr1 5.818 471 GHz
-2.971 dBm
15.9
5.94
-4.06
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 33.83 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

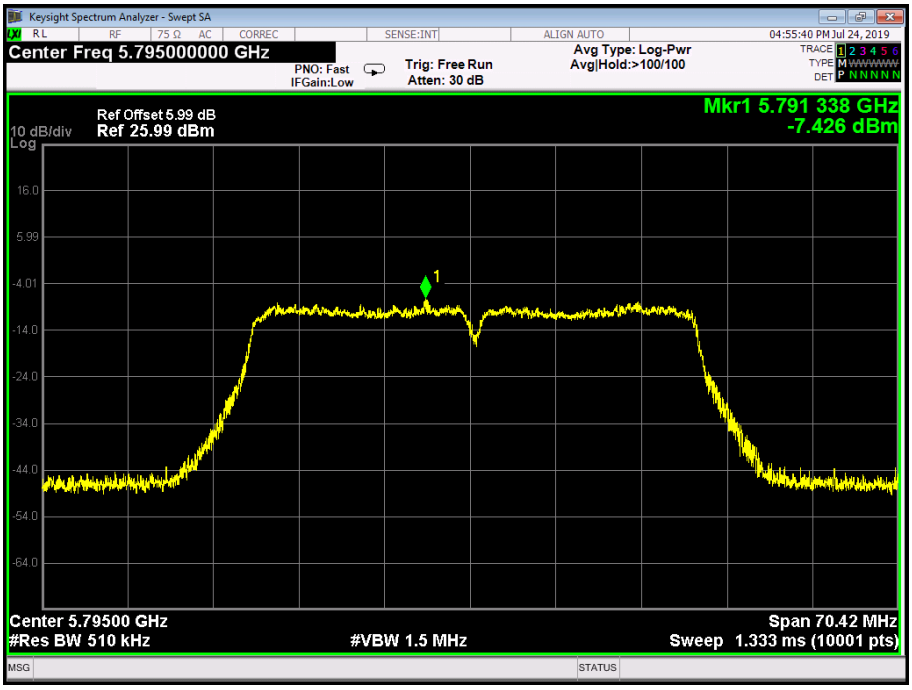
802.11 ac(20) 5745 MHz

802.11 ac(20) 5785 MHz

802.11 ac(20) 5825 MHz


Keysight Spectrum Analyzer - Swept SA
RL
RF
75 Ω AC
CORREC
SENSE:INT
ALIGN AUTO
04:37:00 PM Jul 24, 2019
Center Freq 5.825000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
TRACE 1 2 3 4 5 6
TYPE M WWWWW
DET P N N N N N
Ref Offset 5.94 dB
10 dB/div
Log
Ref 25.94 dBm
Mkr1 5.819 191 GHz
-3.277 dBm
15.9
5.94
-4.06
-14.1
-24.1
-34.1
-44.1
-54.1
-64.1
Center 5.82500 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 33.81 MHz
Sweep 1.333 ms (10001 pts)
MSG
STATUS

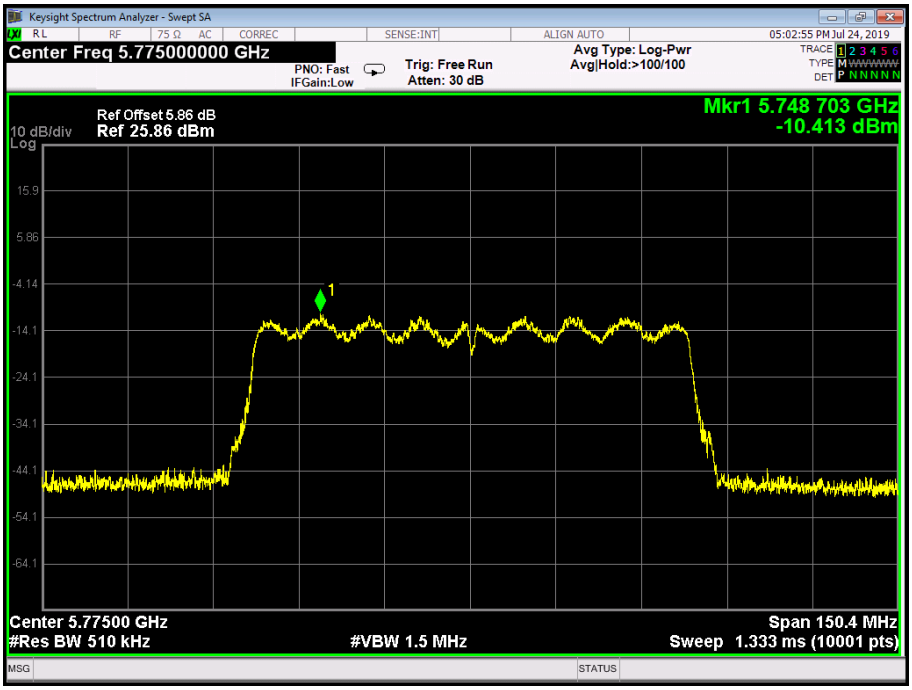
802.11 n(40) 5755 MHz


802.11 n(40) 5795 MHz


802.11 ac(40) 5755 MHz


802.11 ac(40) 5795 MHz


802.11 ac(80) 5775 MHz



Attachment G-- Frequency Stability Measurement Test Data

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 low channel

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 low channel

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