4. Peak Transmit Output

4.1. Test Equipment

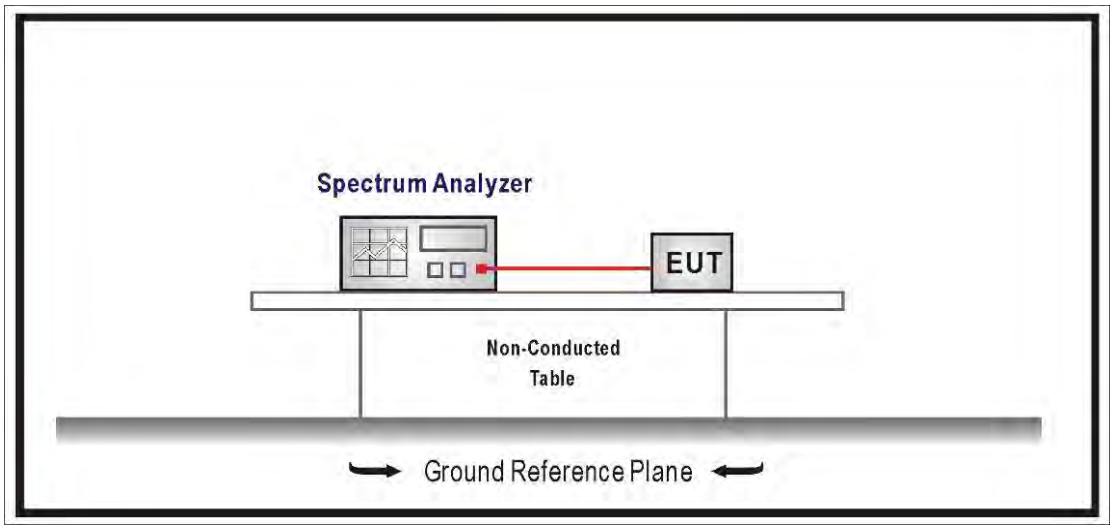
The following test equipments are used during the radiated emission tests:

Peak Transmit Output / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

Note: All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup



4.3. Limits

1. For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

2. For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. The maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
3. For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

4. For the band 5.725-5.850 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1W. If transmitting antenna of directional gain greater than 6 dBi are used, the peak transmit power shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

4.4. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of 789033 D02 V01R02 for compliance to FCC 47CFR Subpart E requirements. The Method SA-1 of the Maximum conducted output power was used.

Set RBW=1MHz, VBW=3MHz with RMS detector and trace average 100 traces in power averaging mode. Set span to encompass the entire emission bandwidth (EBW) of the signal. Compute power by integrating the spectrum across the 26 dB EBW of the signal.

4.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

4.6. Test Result

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

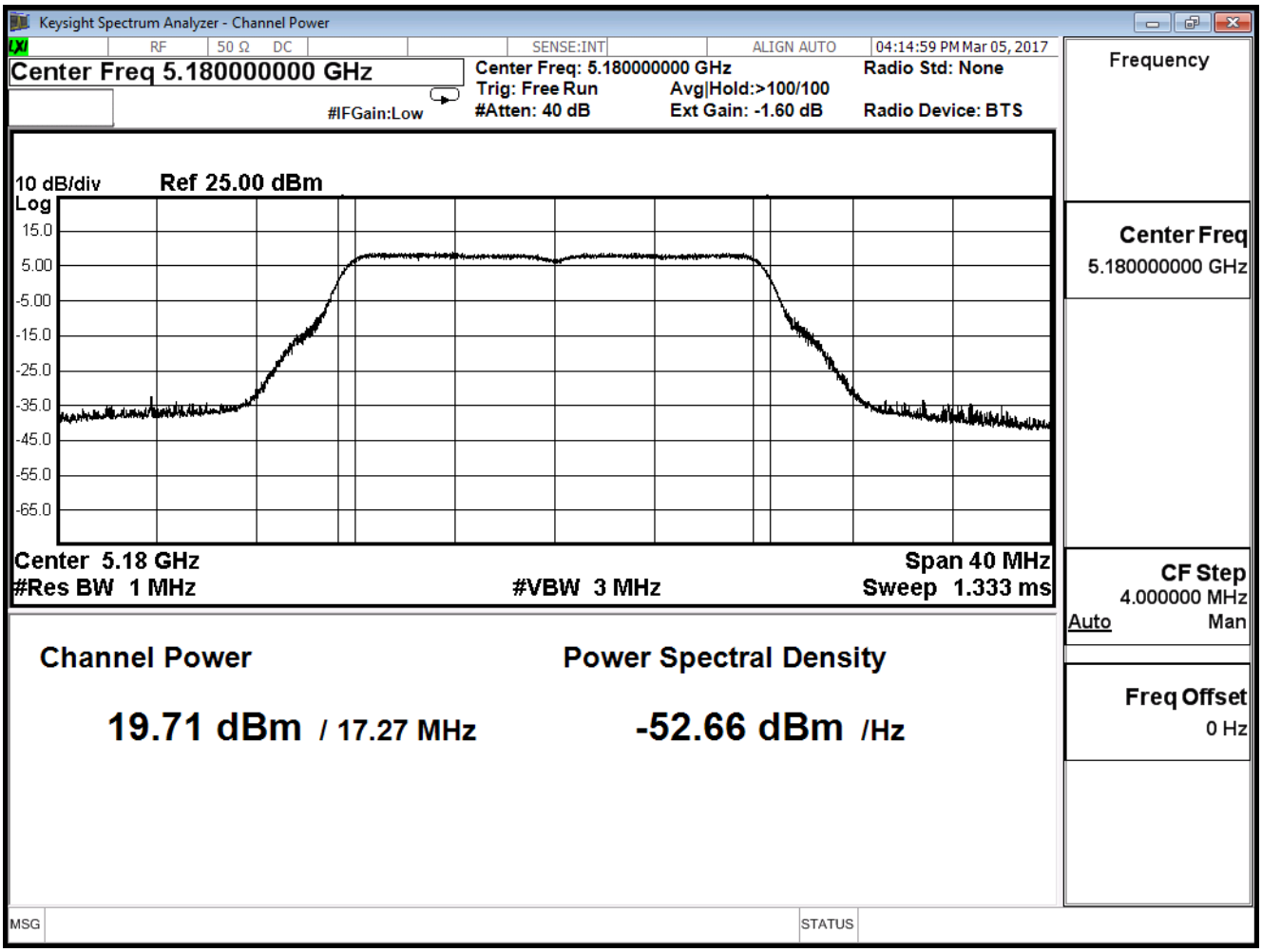
802.11a (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.710	≤30
44	5220	21.540	≤30
48	5240	21.810	≤30

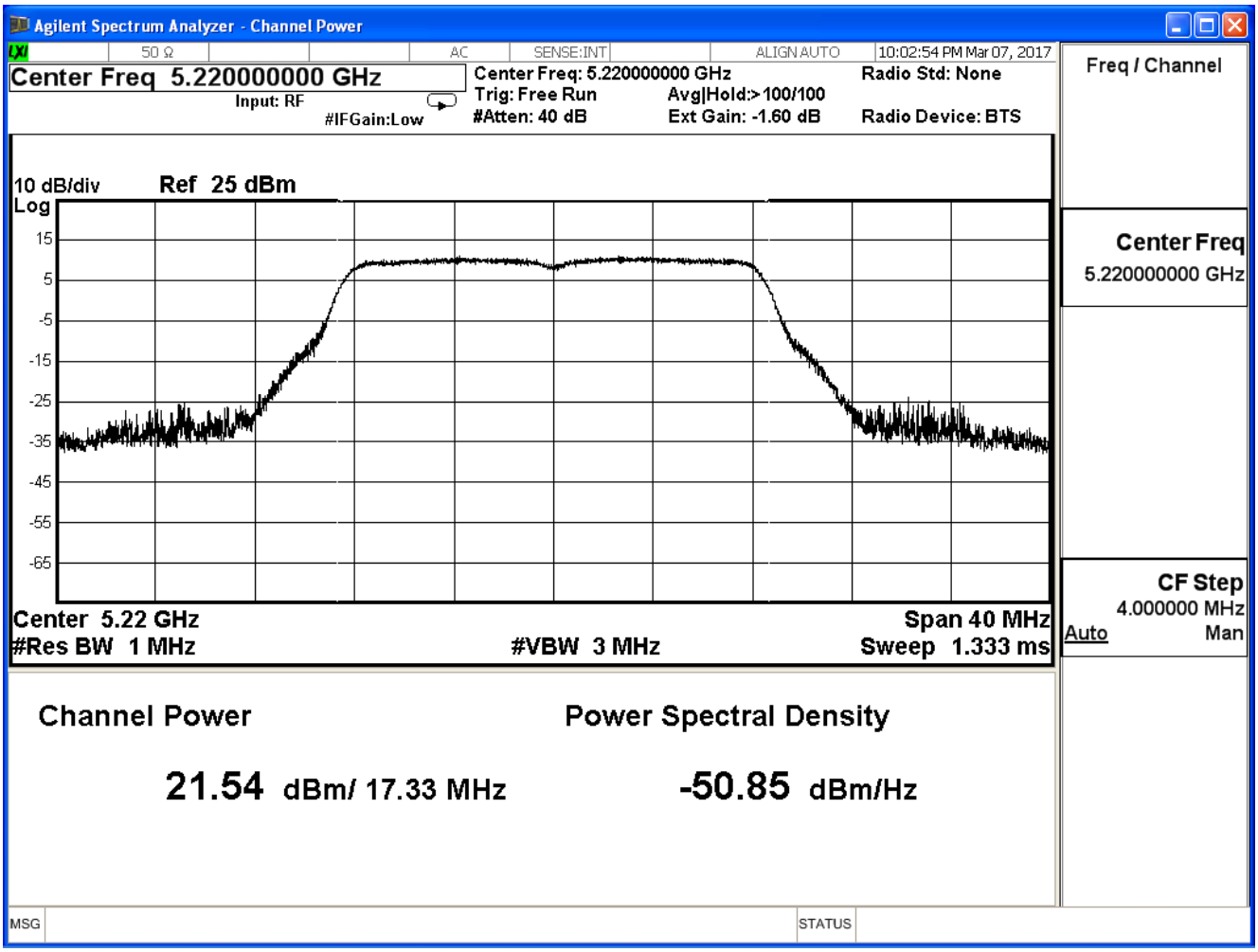
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.710	--	--	--	--	--	--	≤30dBm
44	5220	21.540	21.500	21.480	21.400	21.320	21.280	21.200	
48	5240	21.810	--	--	--	--	--	--	

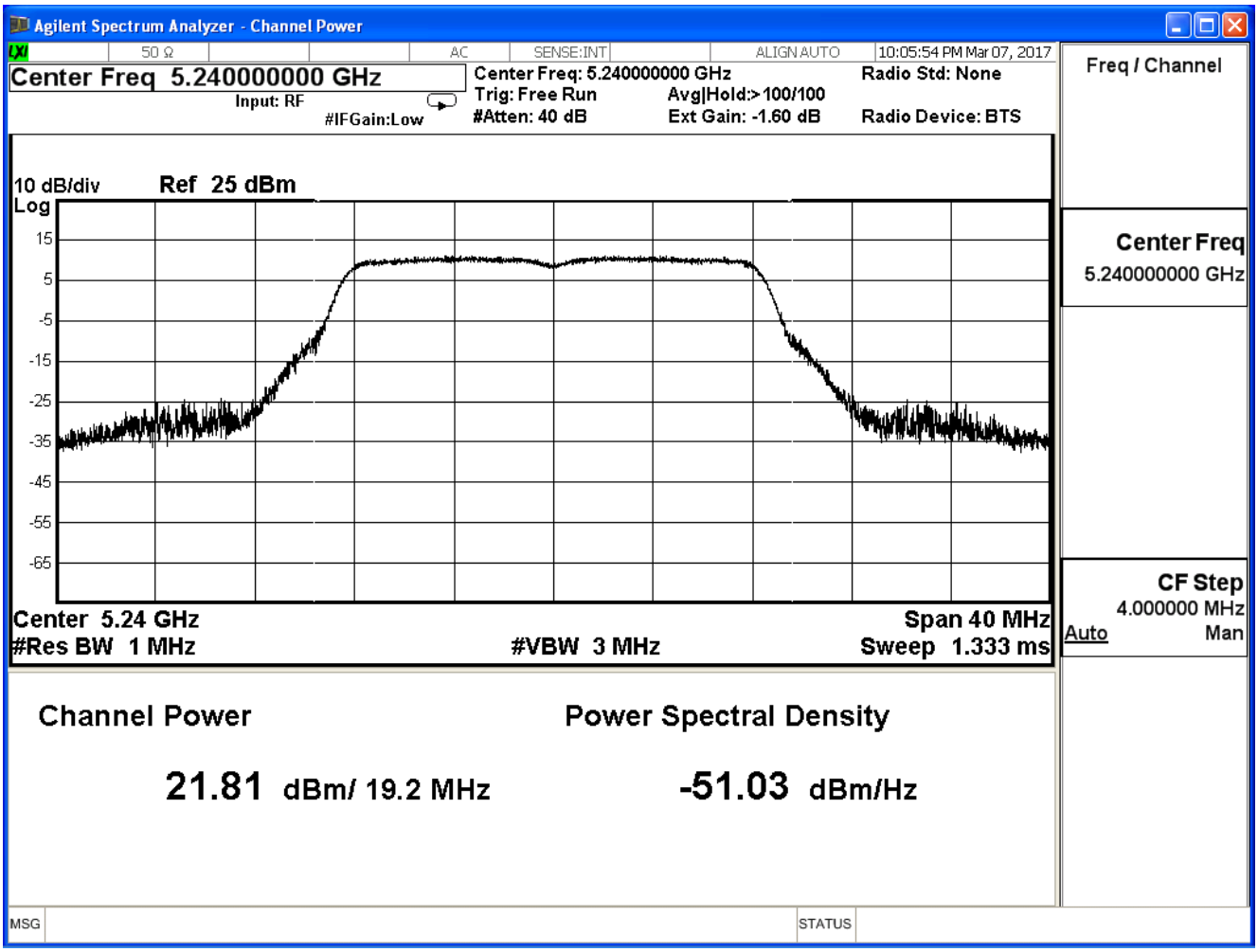
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

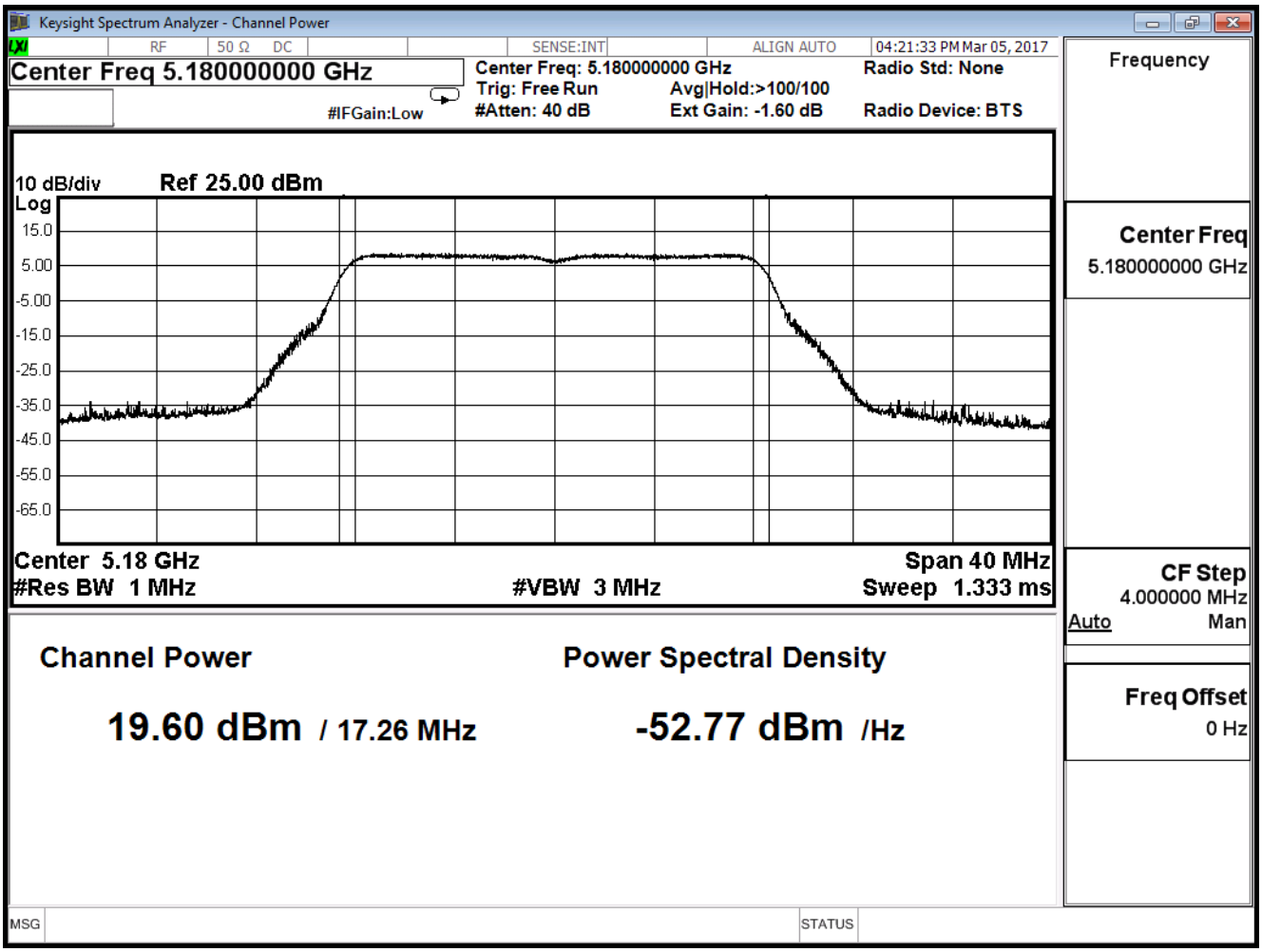
802.11a (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.600	≤30
44	5220	21.580	≤30
48	5240	21.830	≤30

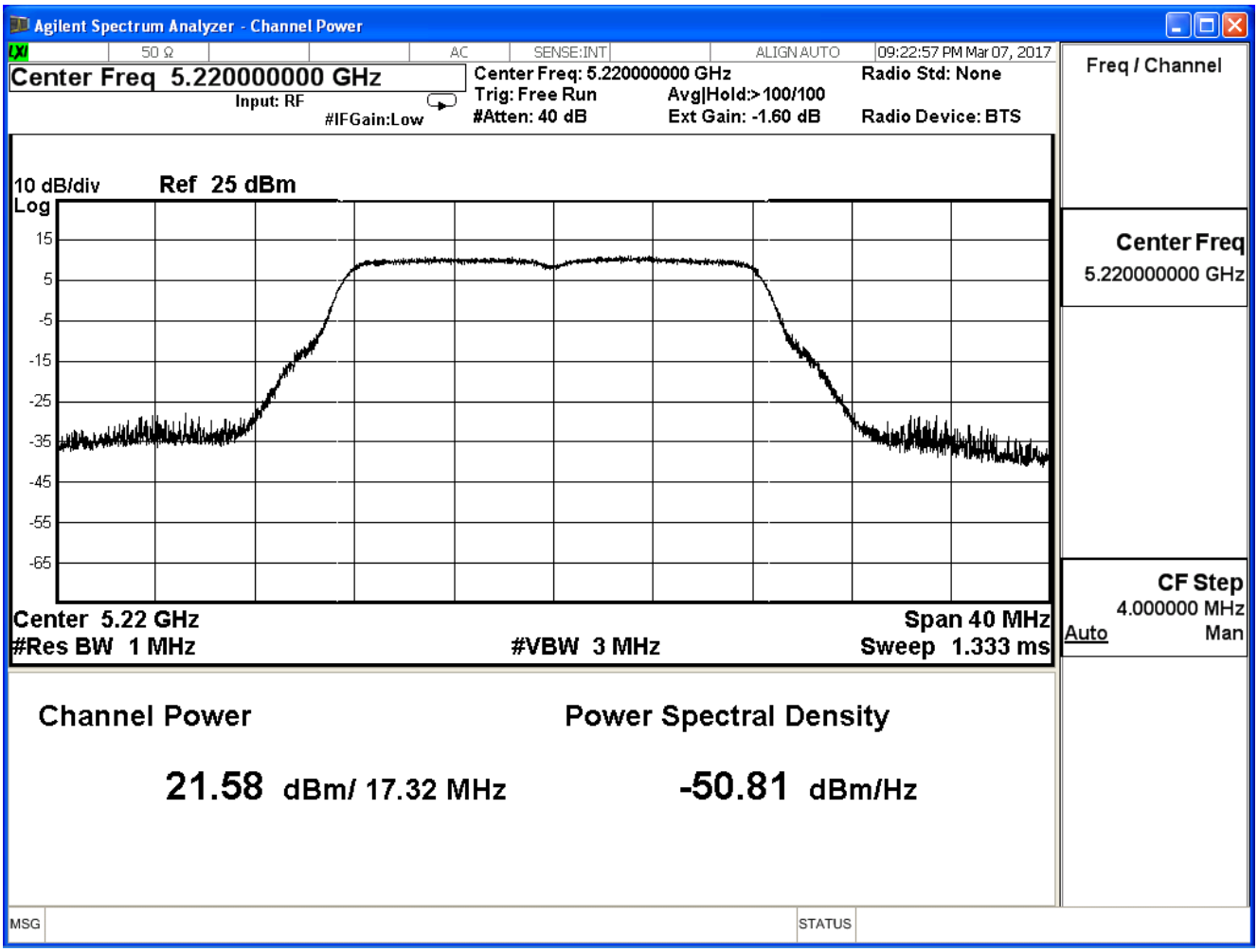
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.600	--	--	--	--	--	--	≤30dBm
44	5220	21.580	21.500	21.380	21.300	21.210	21.180	21.100	
48	5240	21.830	--	--	--	--	--	--	

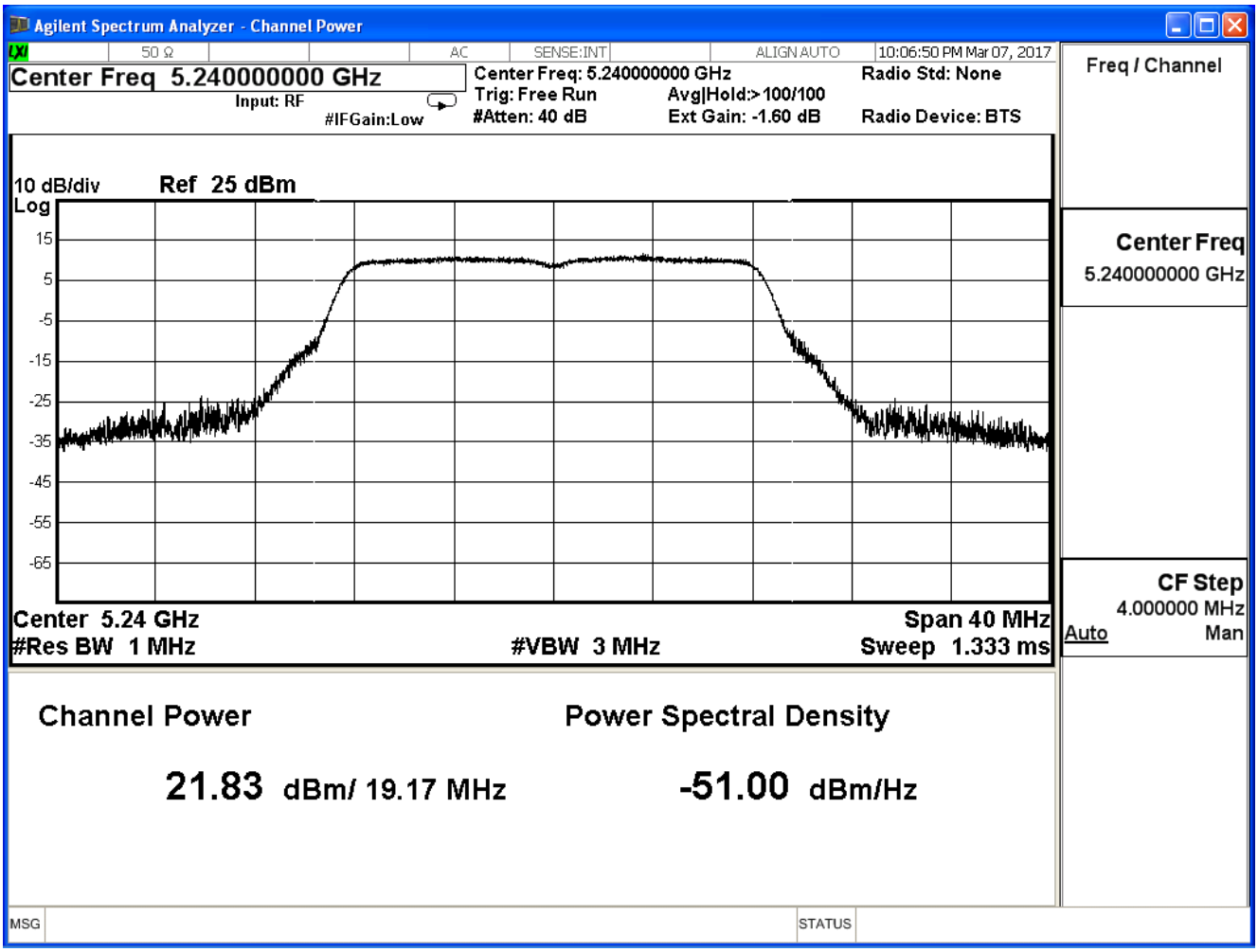
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

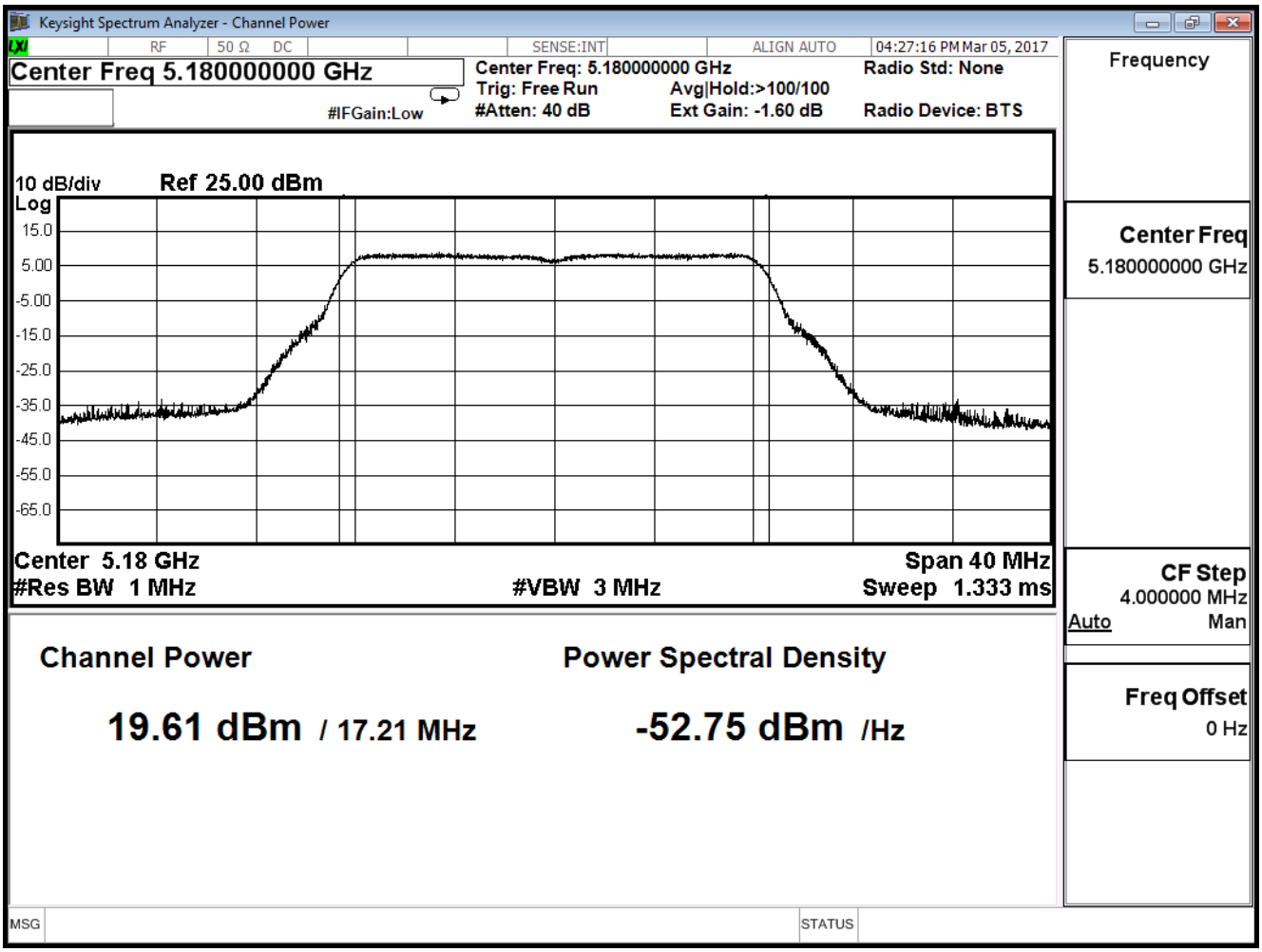
802.11a (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.610	≤30
44	5220	21.520	≤30
48	5240	21.800	≤30

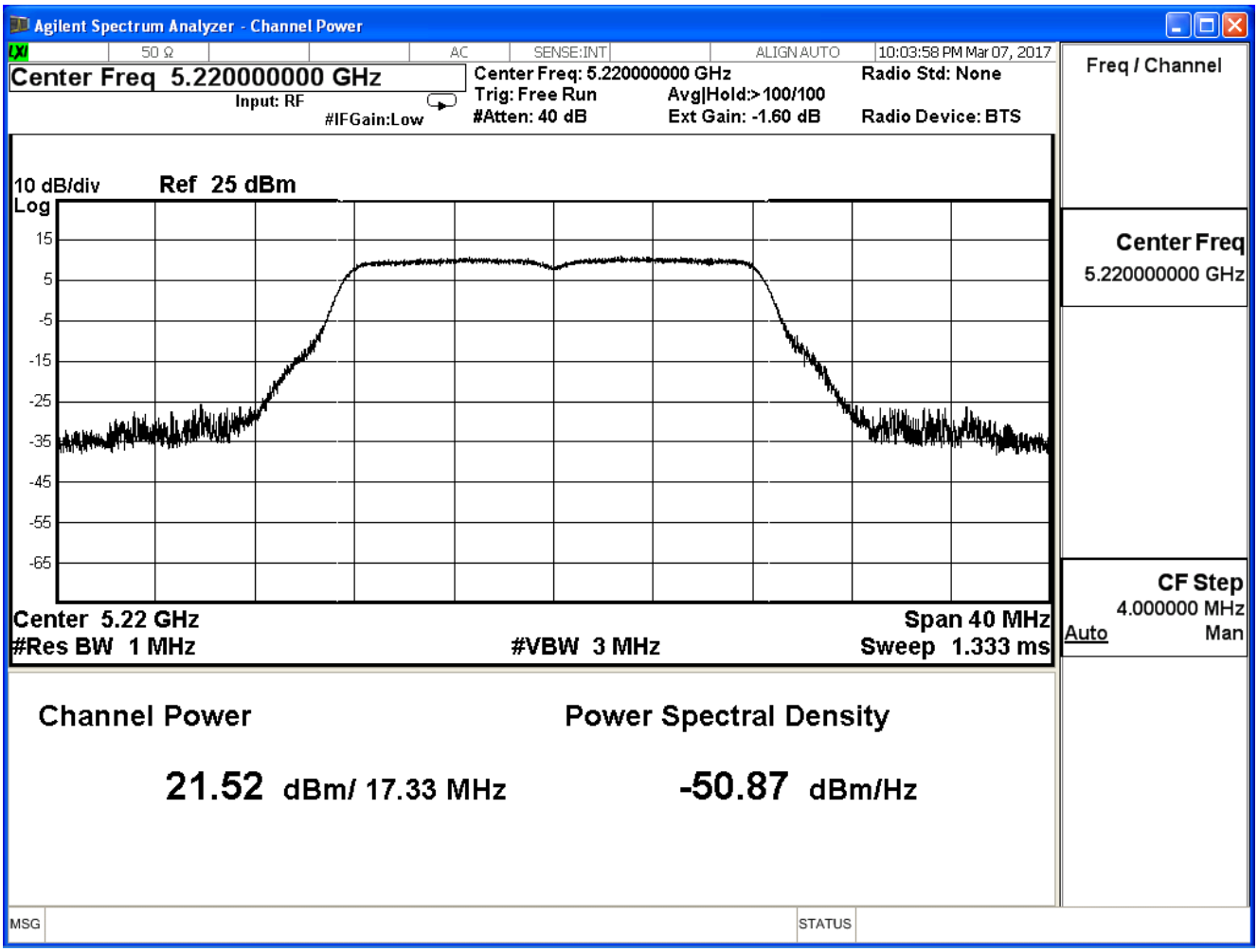
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.610	--	--	--	--	--	--	≤30dBm
44	5220	21.520	21.440	21.320	21.280	21.200	21.170	21.110	
48	5240	21.800	--	--	--	--	--	--	

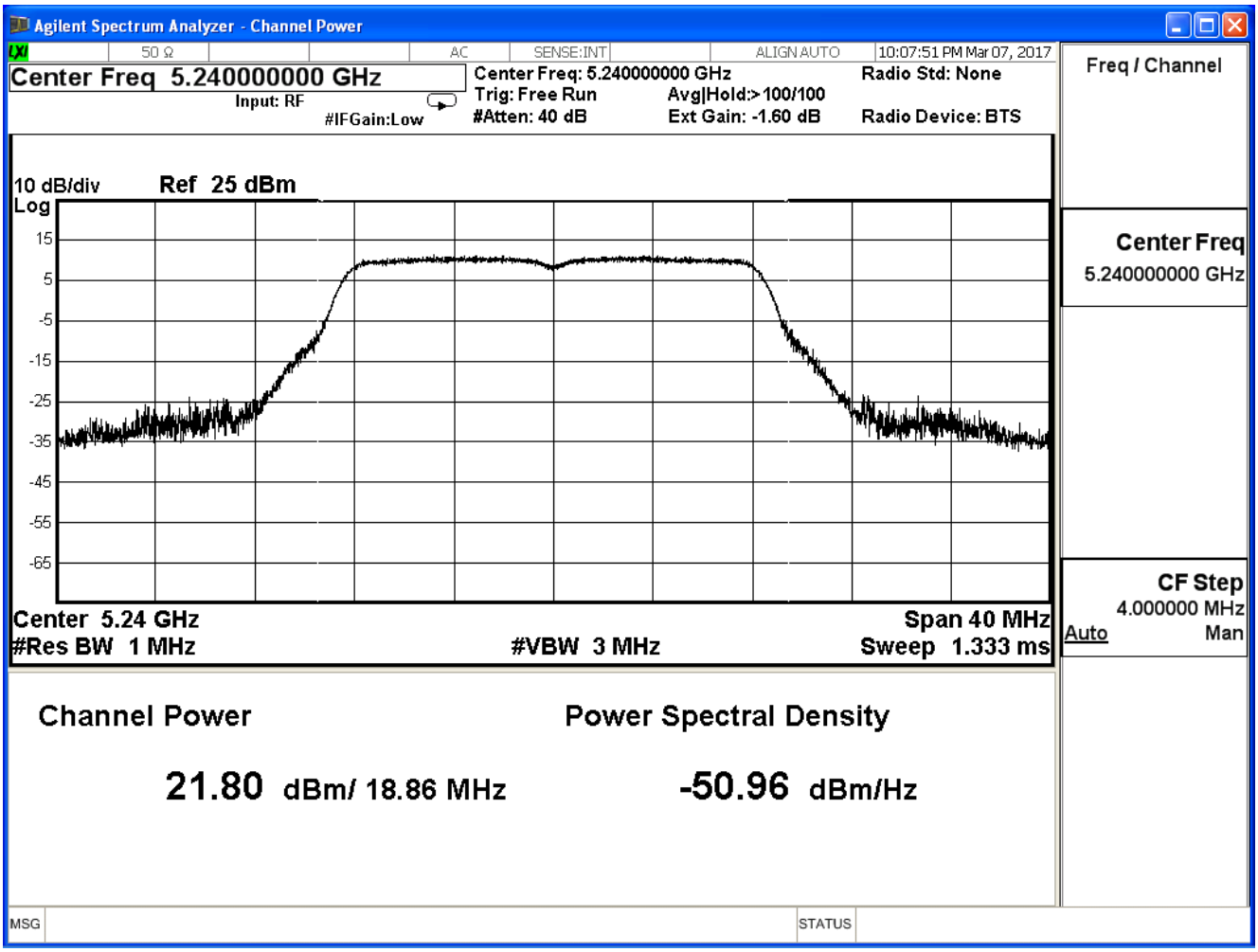
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

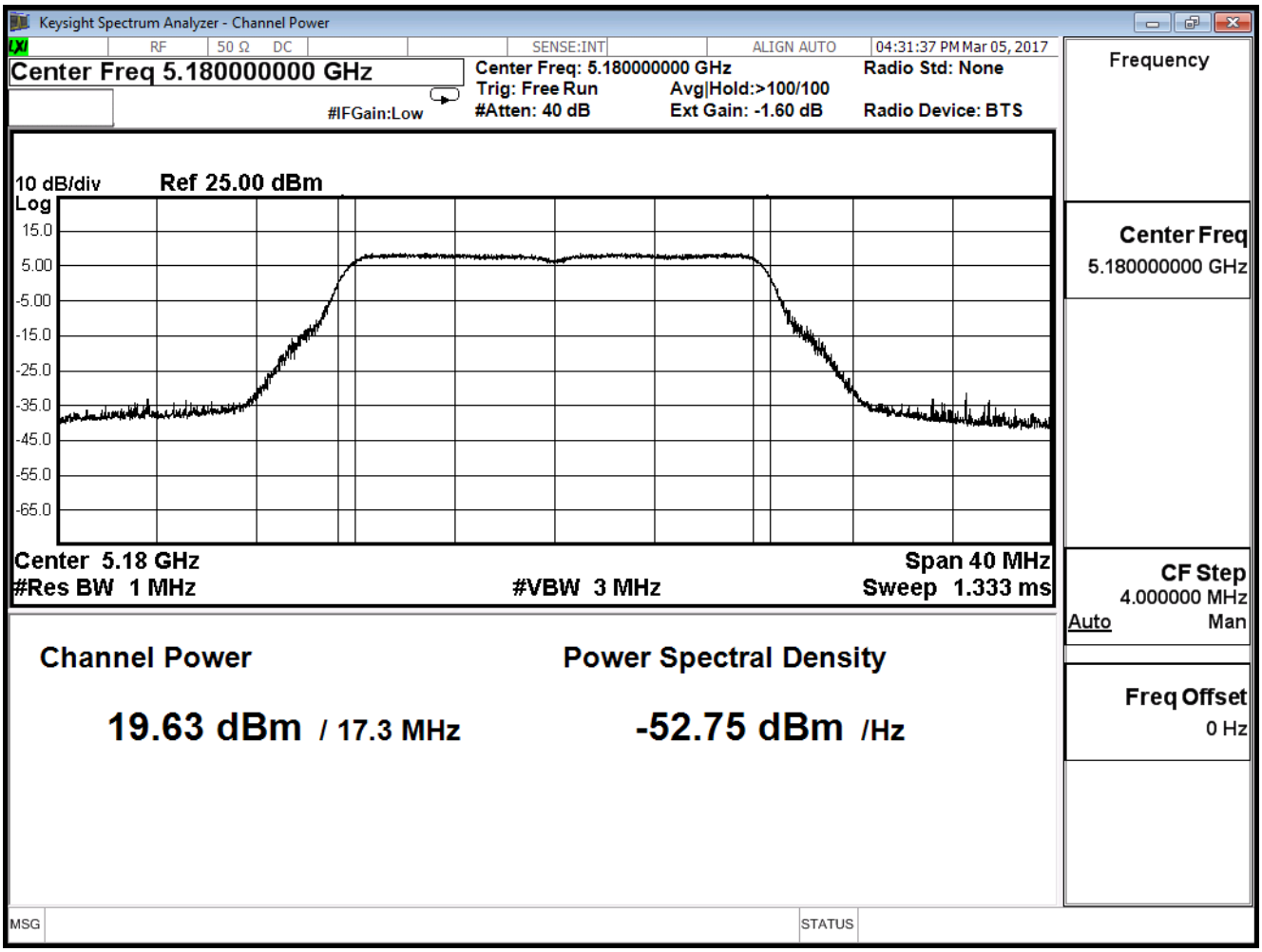
802.11a (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.630	≤30
44	5220	21.570	≤30
48	5240	21.850	≤30

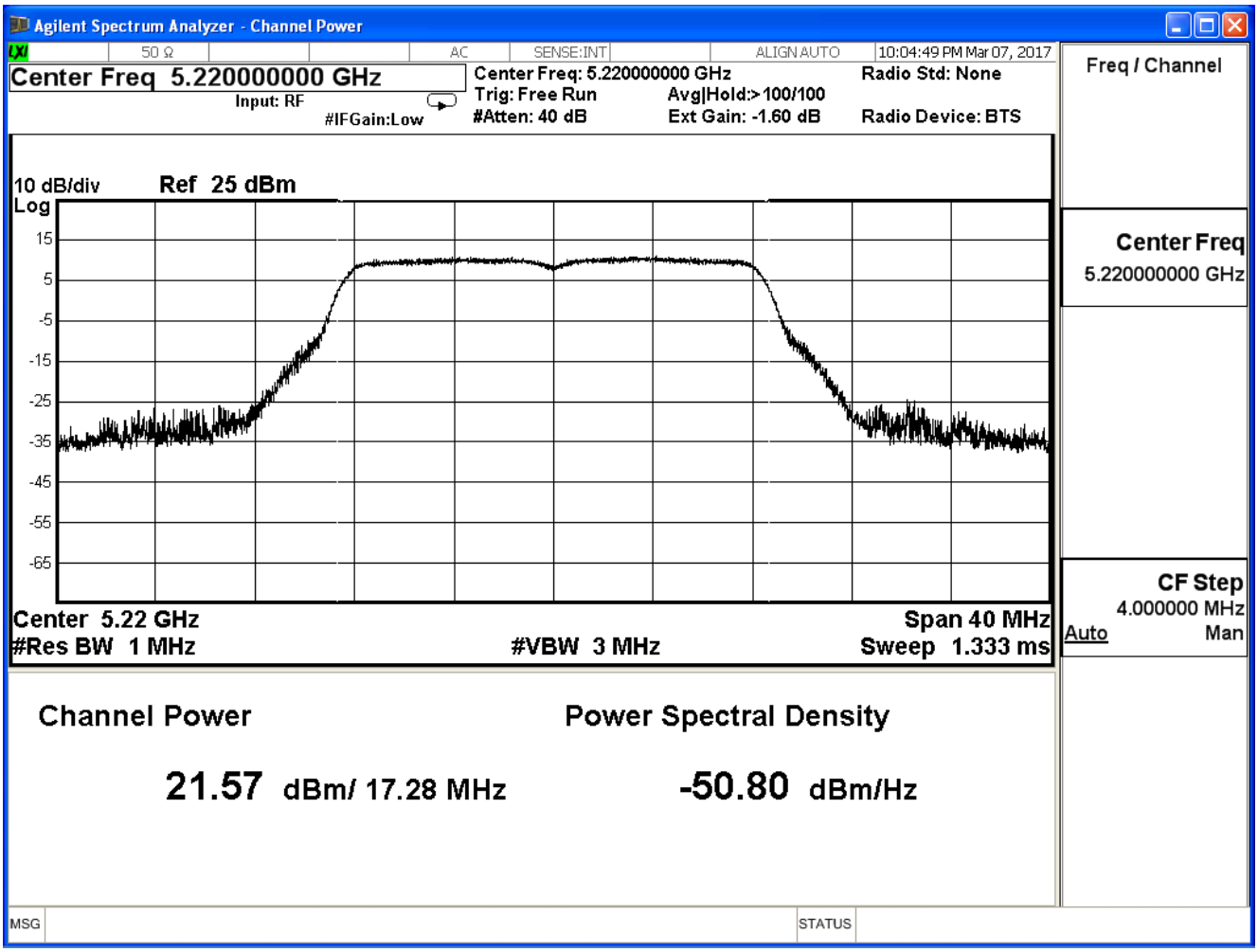
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
36	5180	19.630	--	--	--	--	--	--	≤30dBm
44	5220	21.570	21.500	21.420	21.320	21.270	21.680	21.600	
48	5240	21.850	--	--	--	--	--	--	

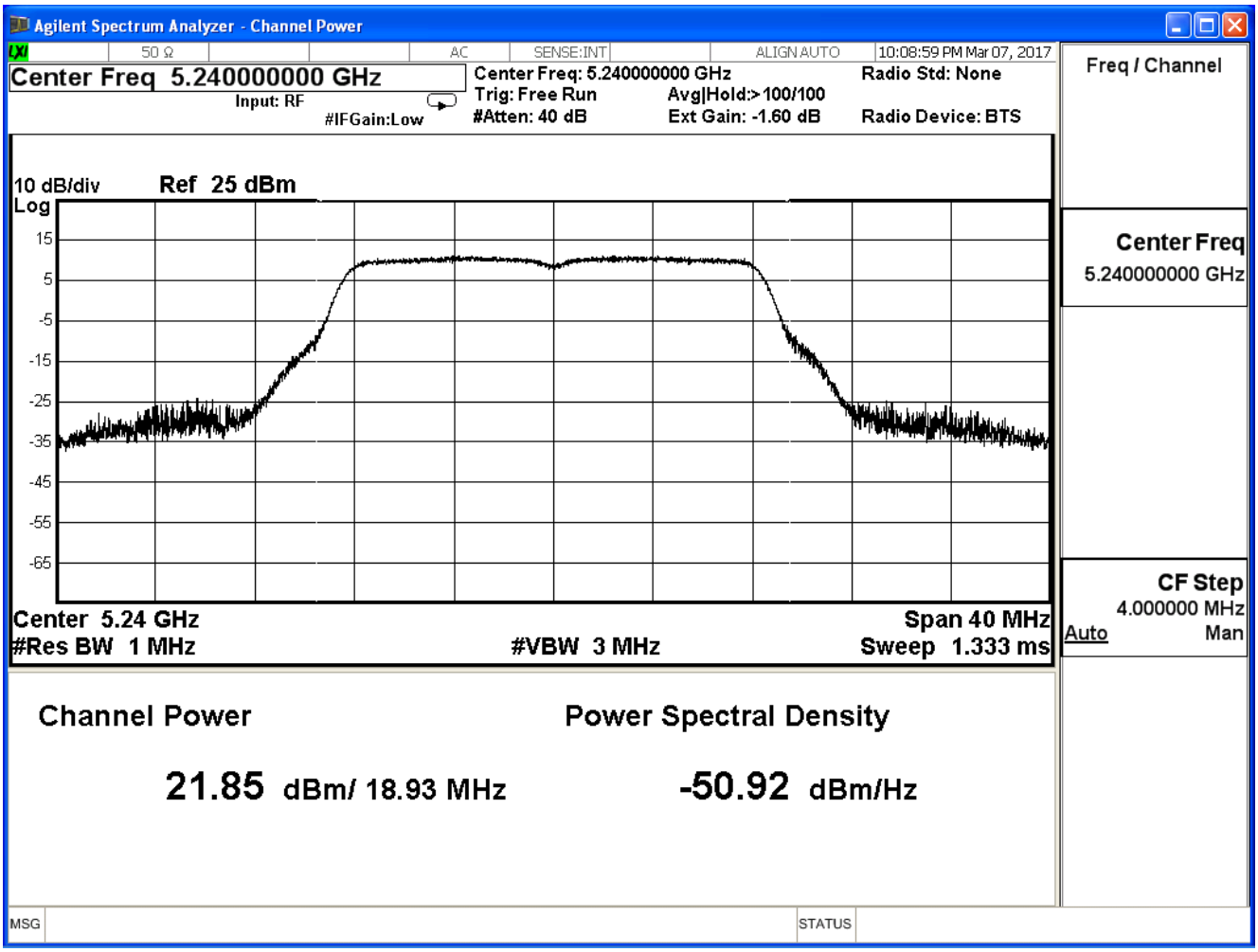
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

802.11a (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	25.658	≤30
44	5220	27.573	≤30
48	5240	27.843	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

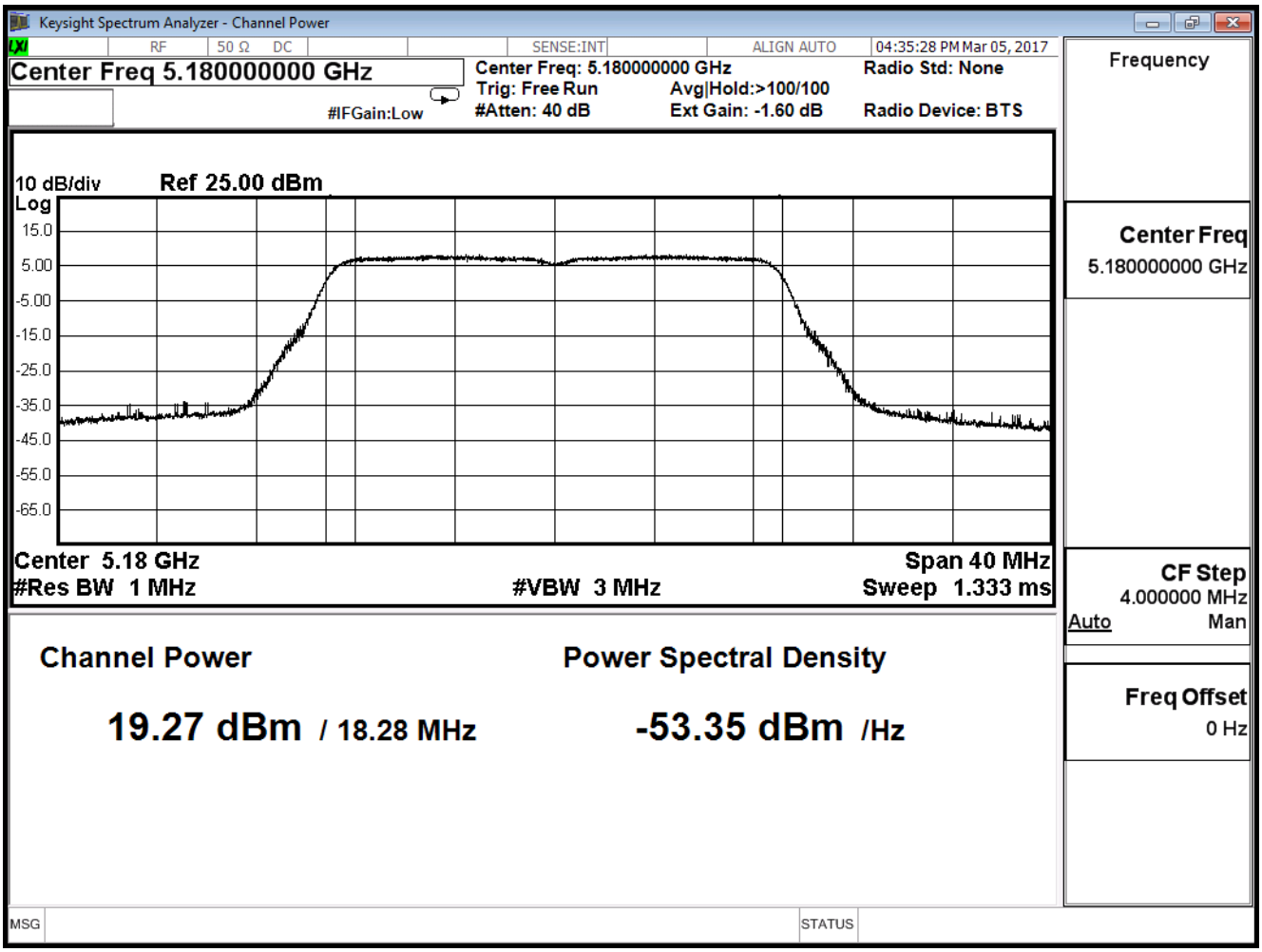
IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.270	≤30
44	5220	21.730	≤30
48	5240	22.020	≤30

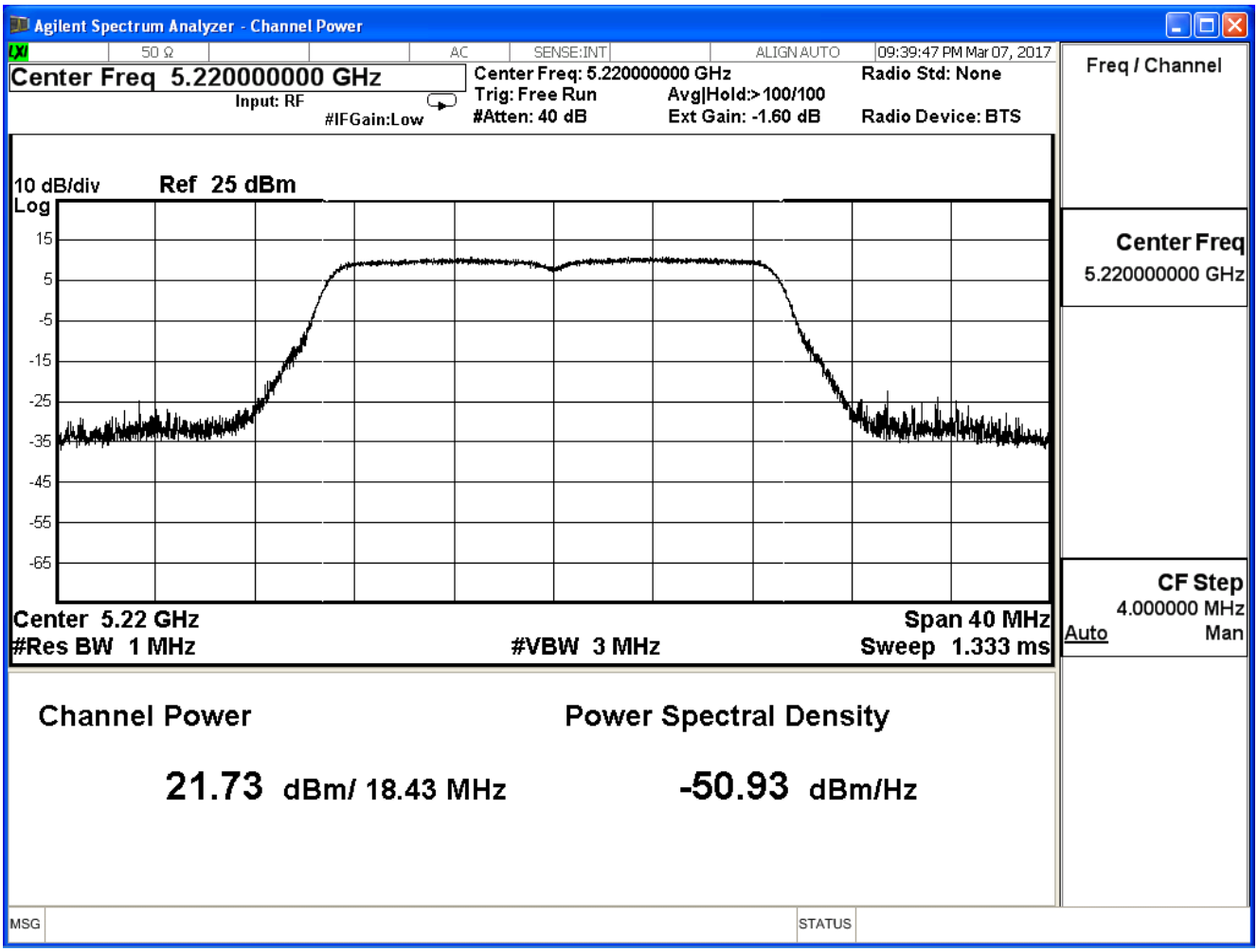
The worst emission of data rate is MCS24.

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
36	5180	19.270	--	--	--	--	--	--	--	≤30dBm
44	5220	21.730	21.680	21.600	21.550	21.500	21.420	21.330	21.280	
48	5240	22.020	--	--	--	--	--	--	--	

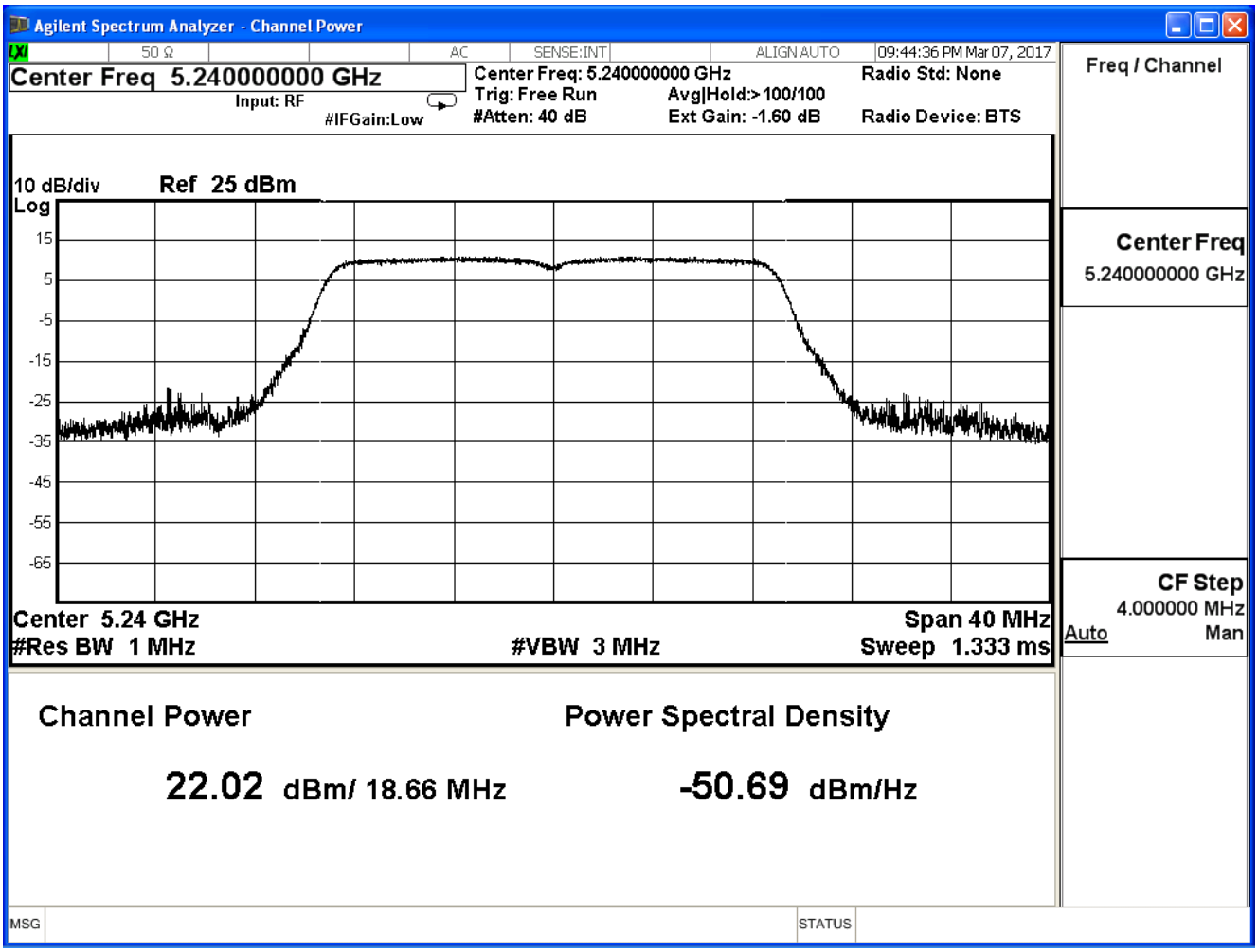
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

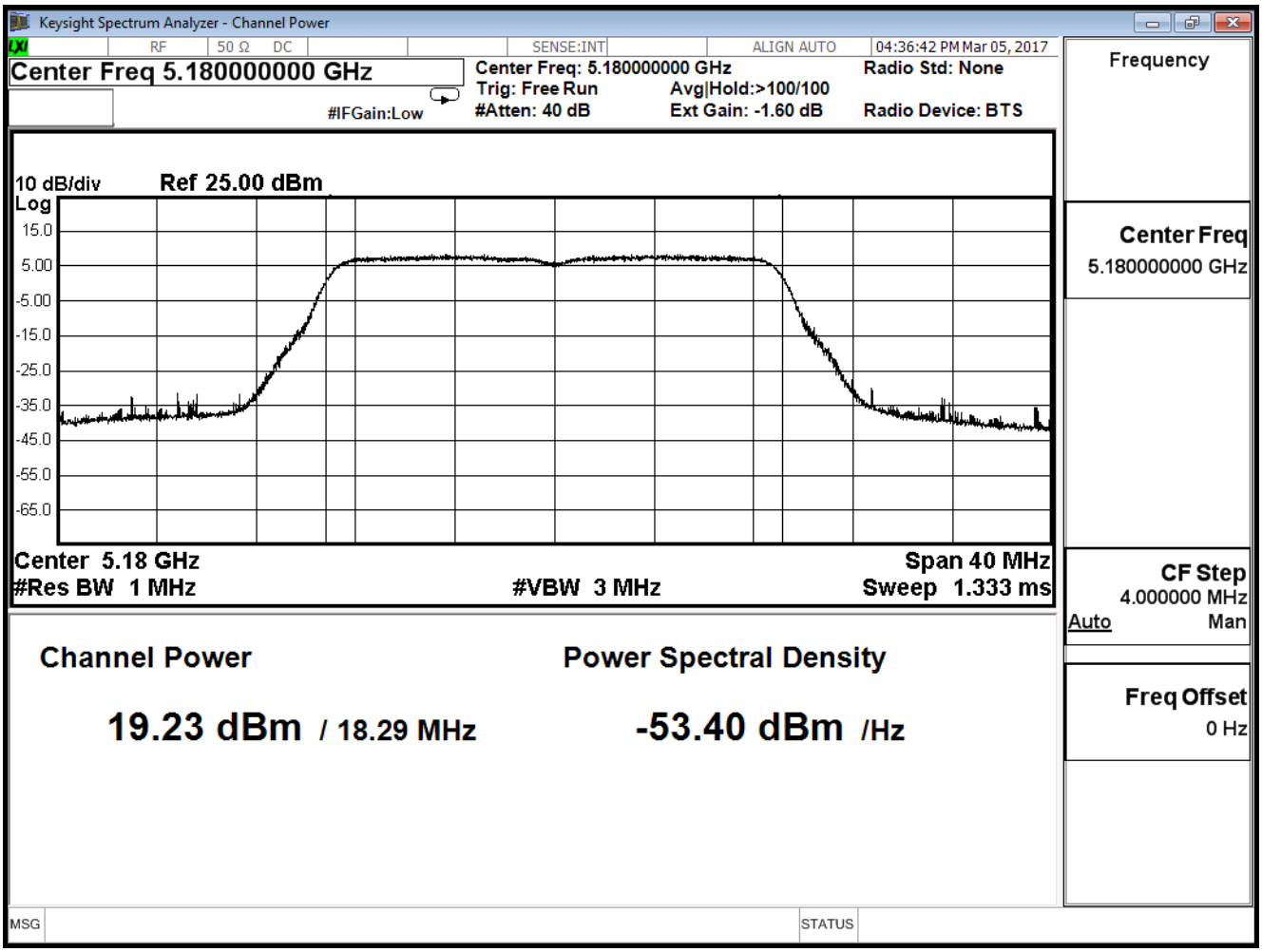
IEEE 802.11n(20MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.230	≤30
44	5220	21.680	≤30
48	5240	22.050	≤30

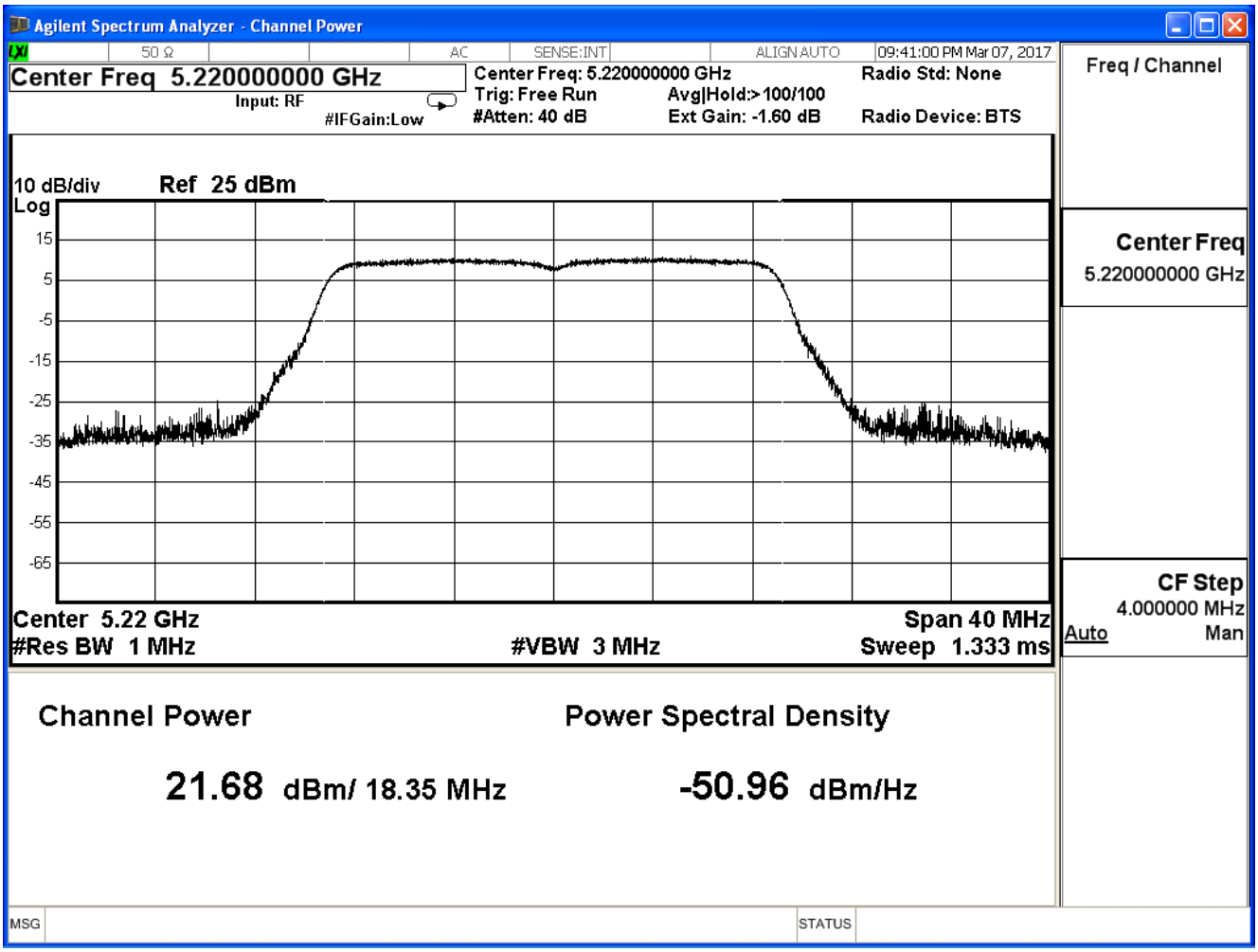
The worst emission of data rate is MCS24.

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
36	5180	19.230	--	--	--	--	--	--	--	≤30dBm
44	5220	21.680	21.600	21.520	21.440	21.370	21.300	21.220	21.160	
48	5240	22.050	--	--	--	--	--	--	--	

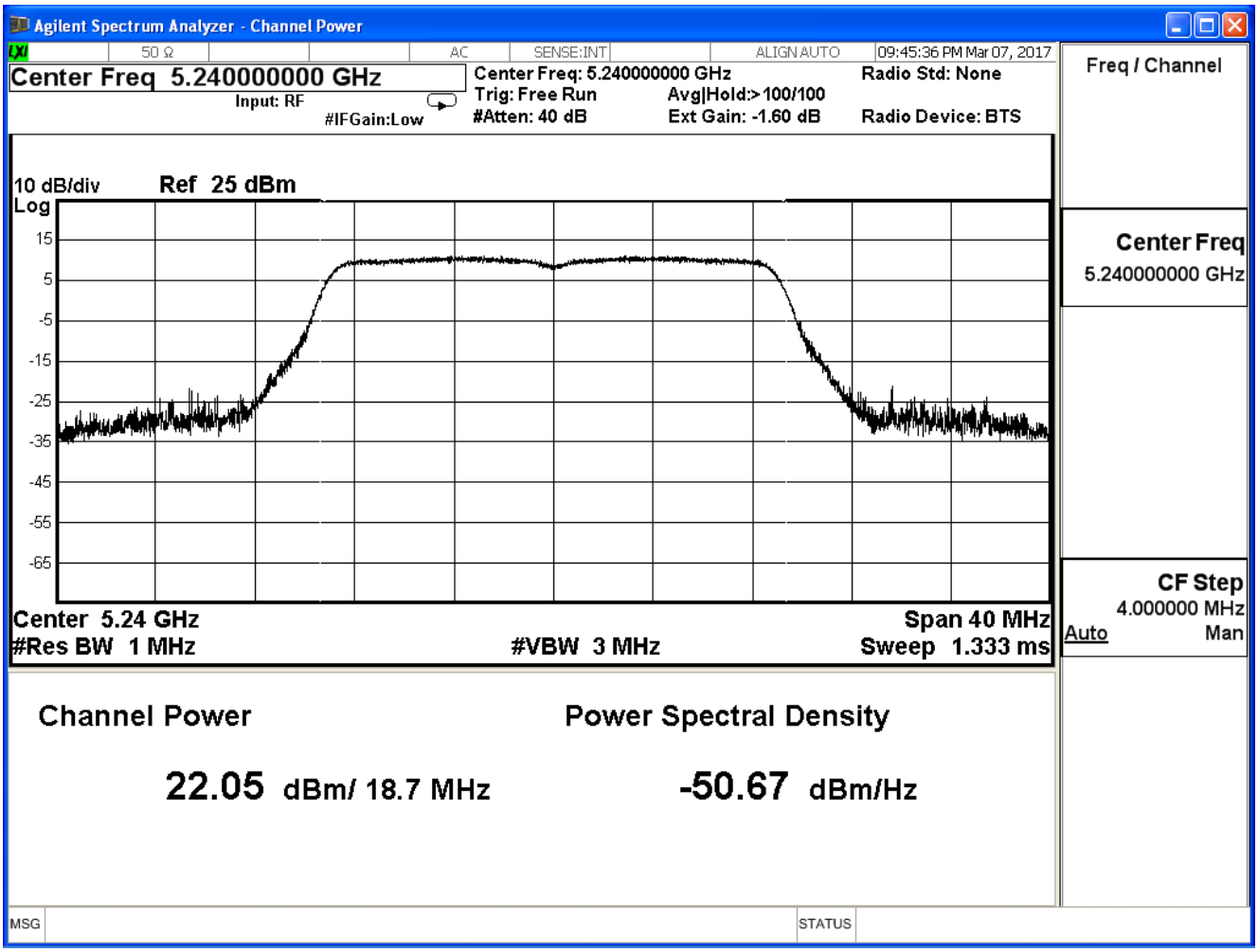
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

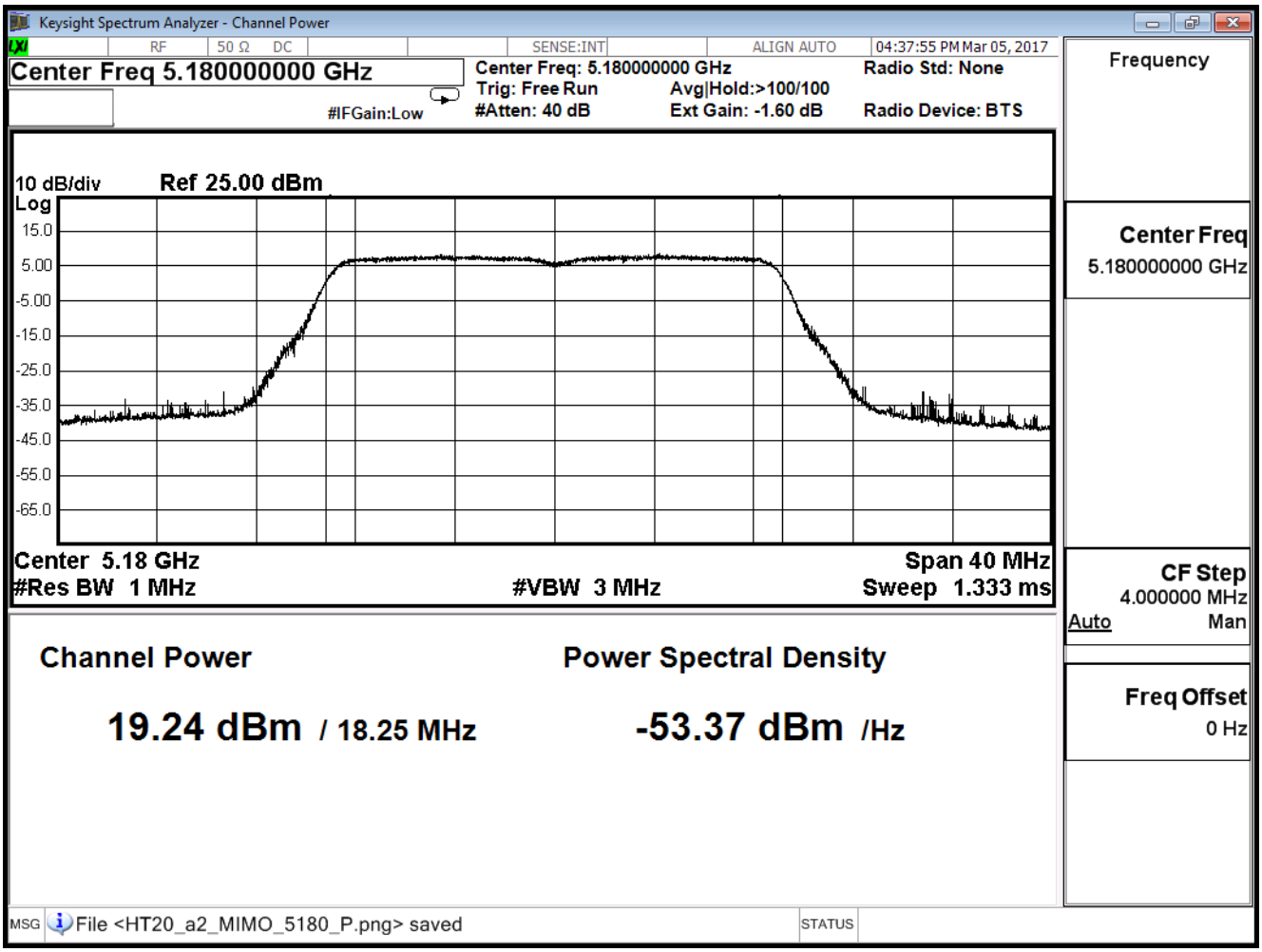
IEEE 802.11n(20MHz)(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.240	≤30
44	5220	21.720	≤30
48	5240	22.040	≤30

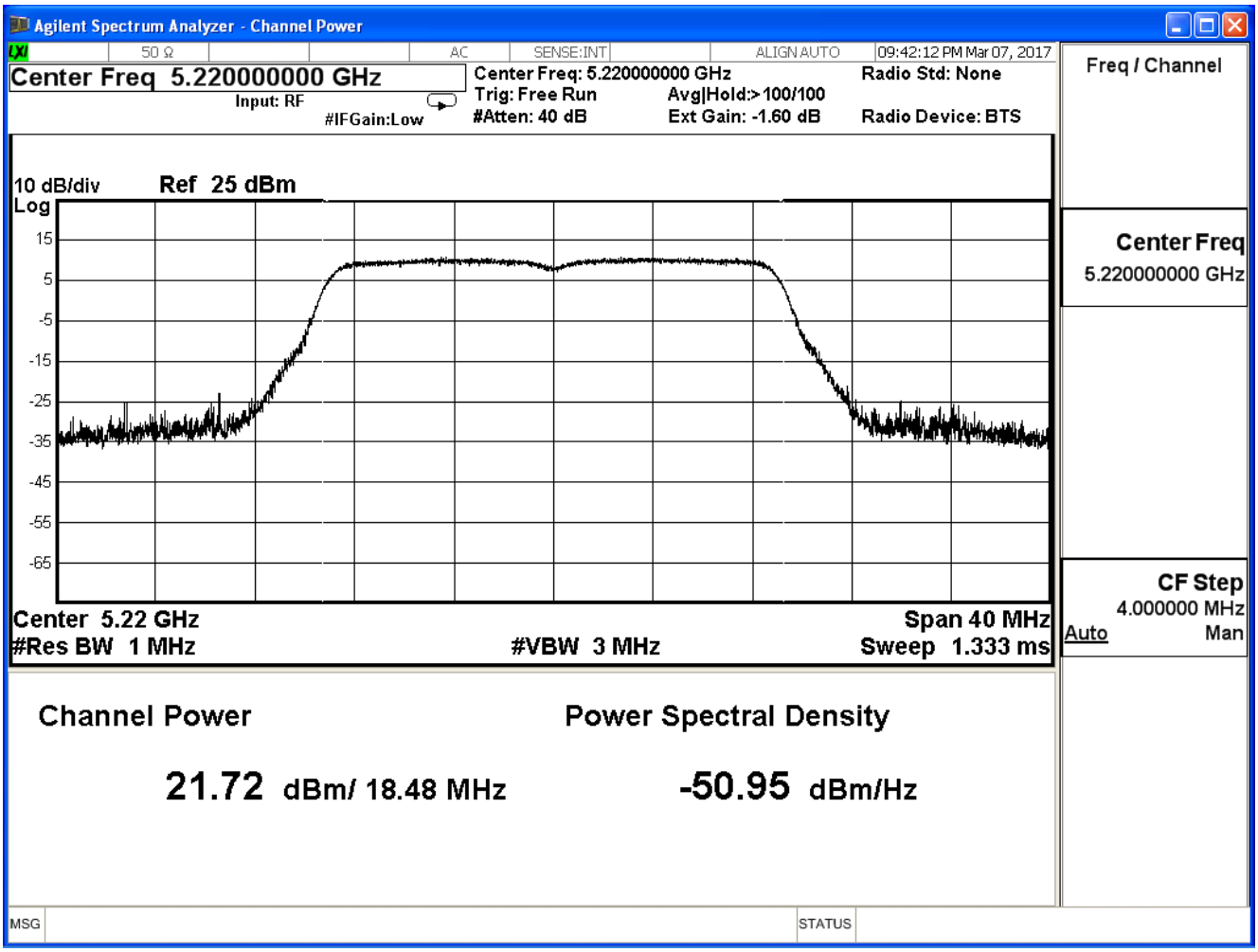
The worst emission of data rate is MCS24.

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
36	5180	19.240	--	--	--	--	--	--	--	≤30dBm
44	5220	21.720	21.660	21.600	21.550	21.480	21.420	21.330	21.240	
48	5240	22.040	--	--	--	--	--	--	--	

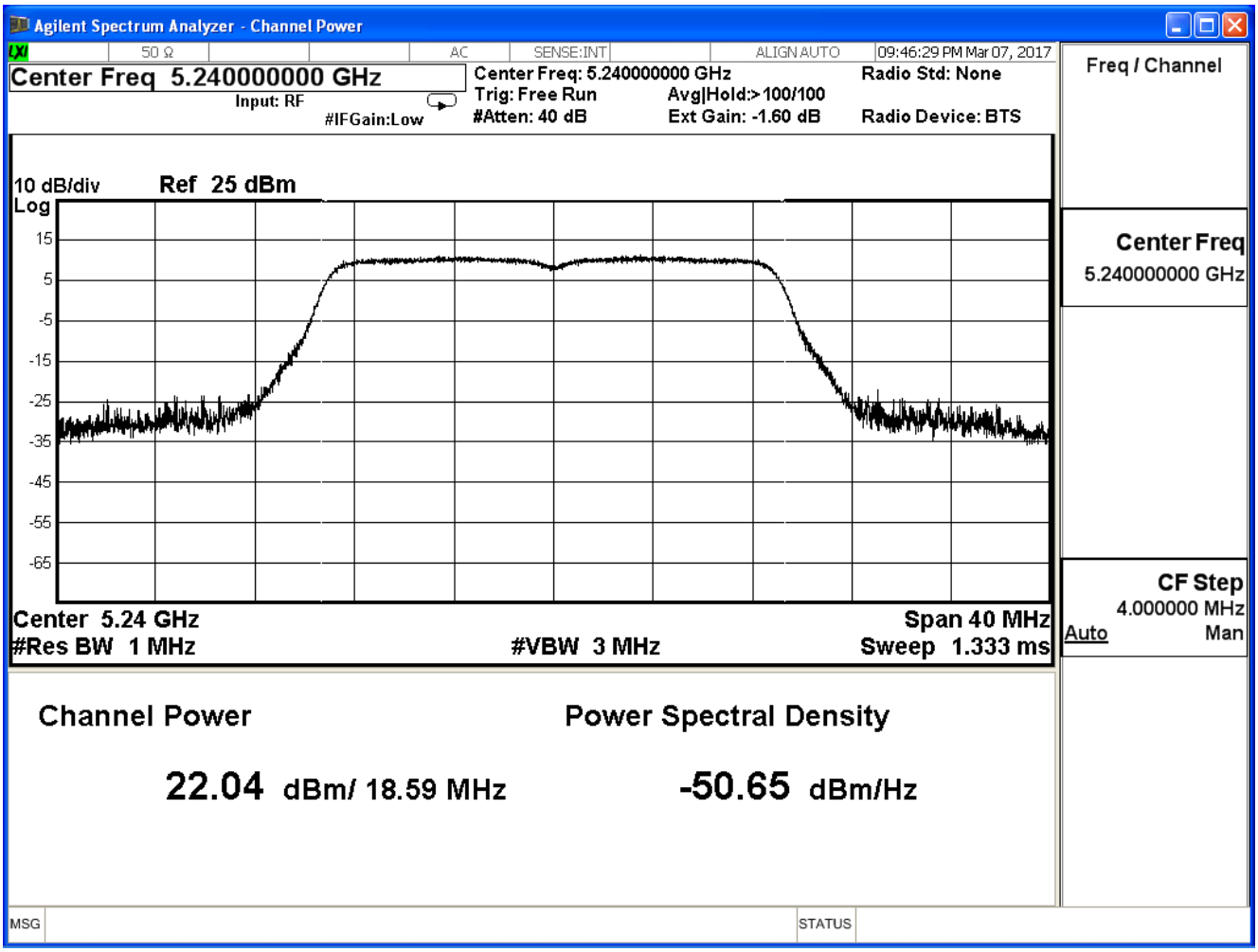
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

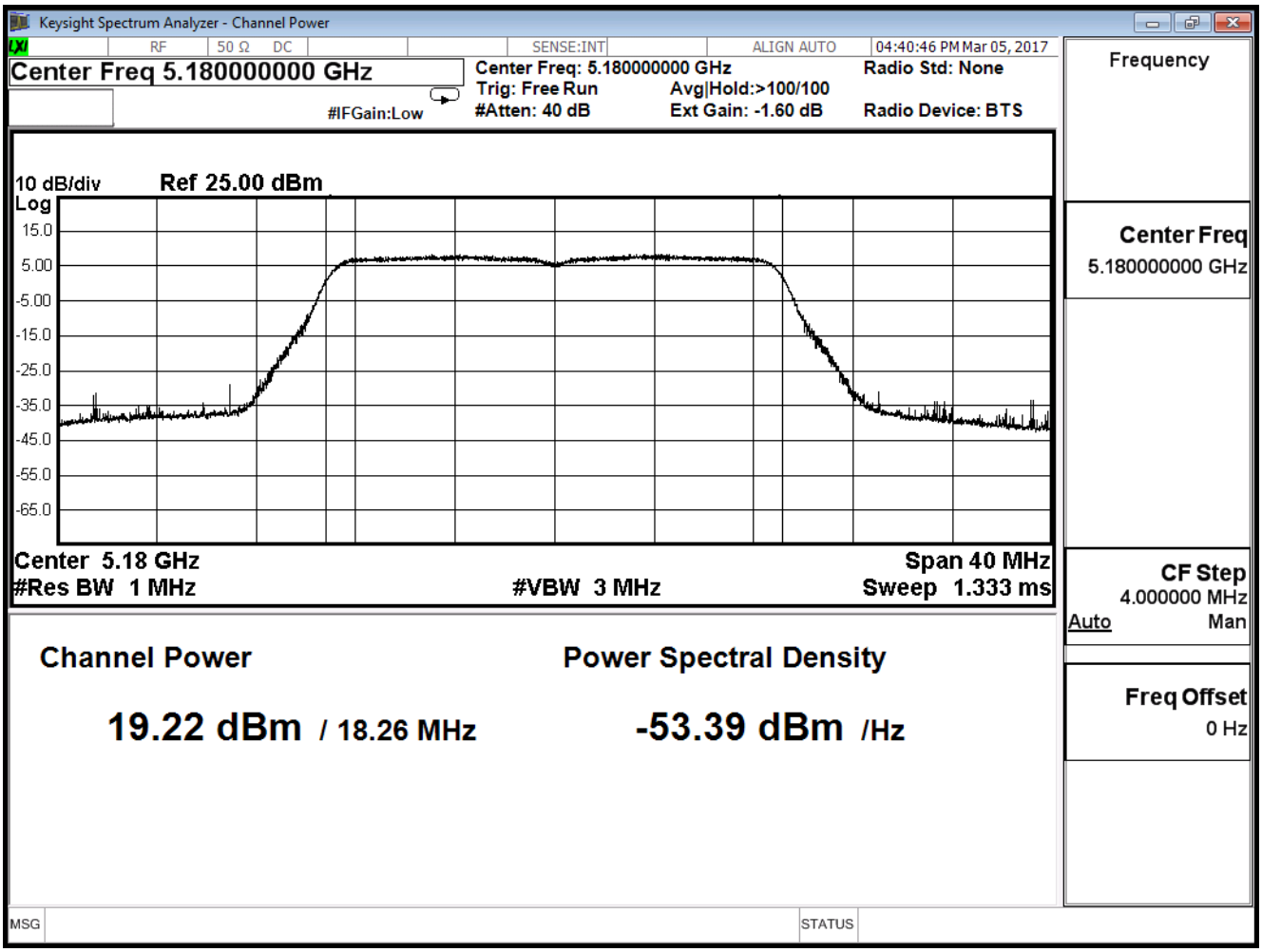
IEEE 802.11n(20MHz)(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	19.220	≤30
44	5220	21.750	≤30
48	5240	22.010	≤30

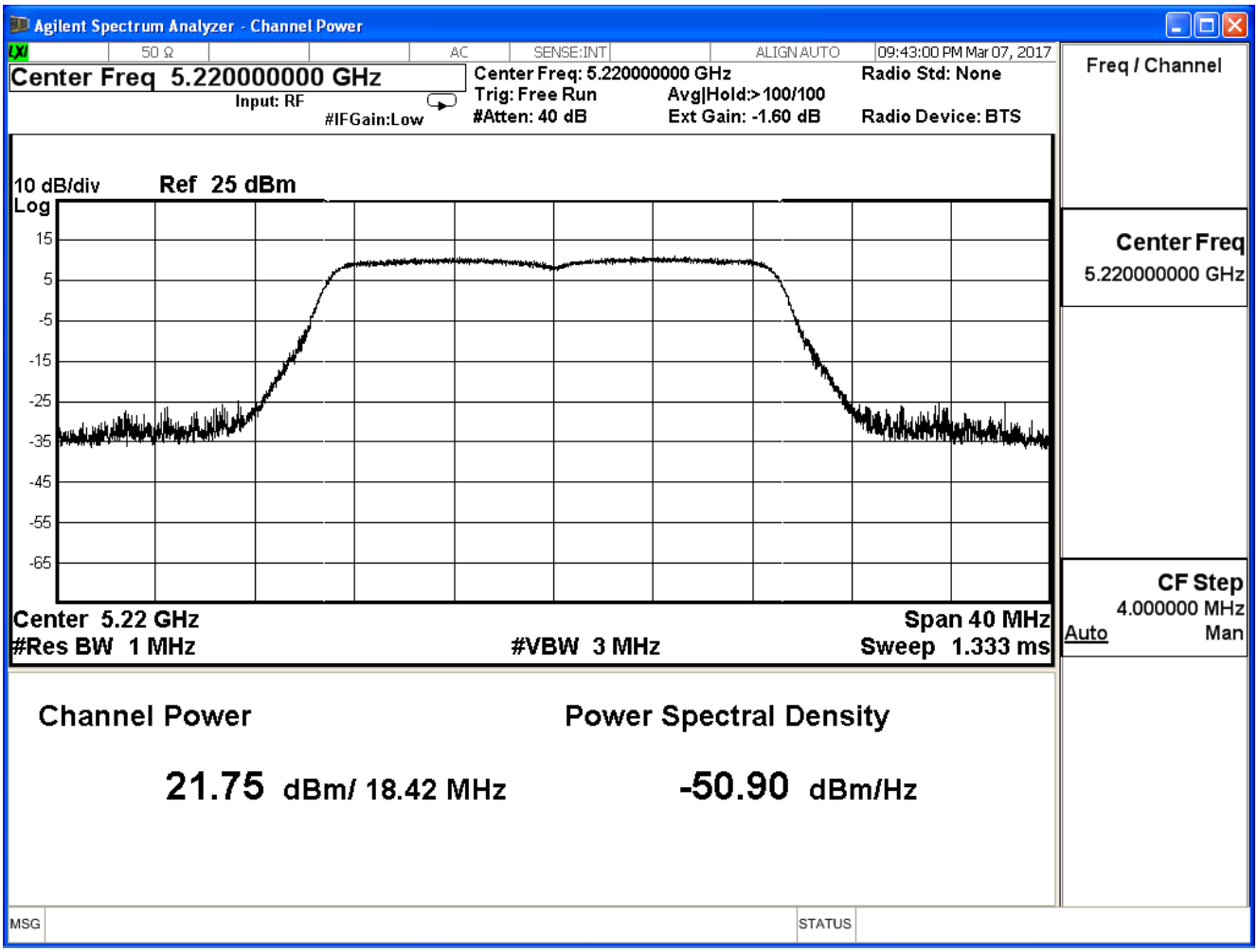
The worst emission of data rate is MCS24.

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
36	5180	19.220	--	--	--	--	--	--	--	≤30dBm
44	5220	21.750	21.700	21.660	21.610	21.540	21.440	21.320	21.260	
48	5240	22.010	--	--	--	--	--	--	--	

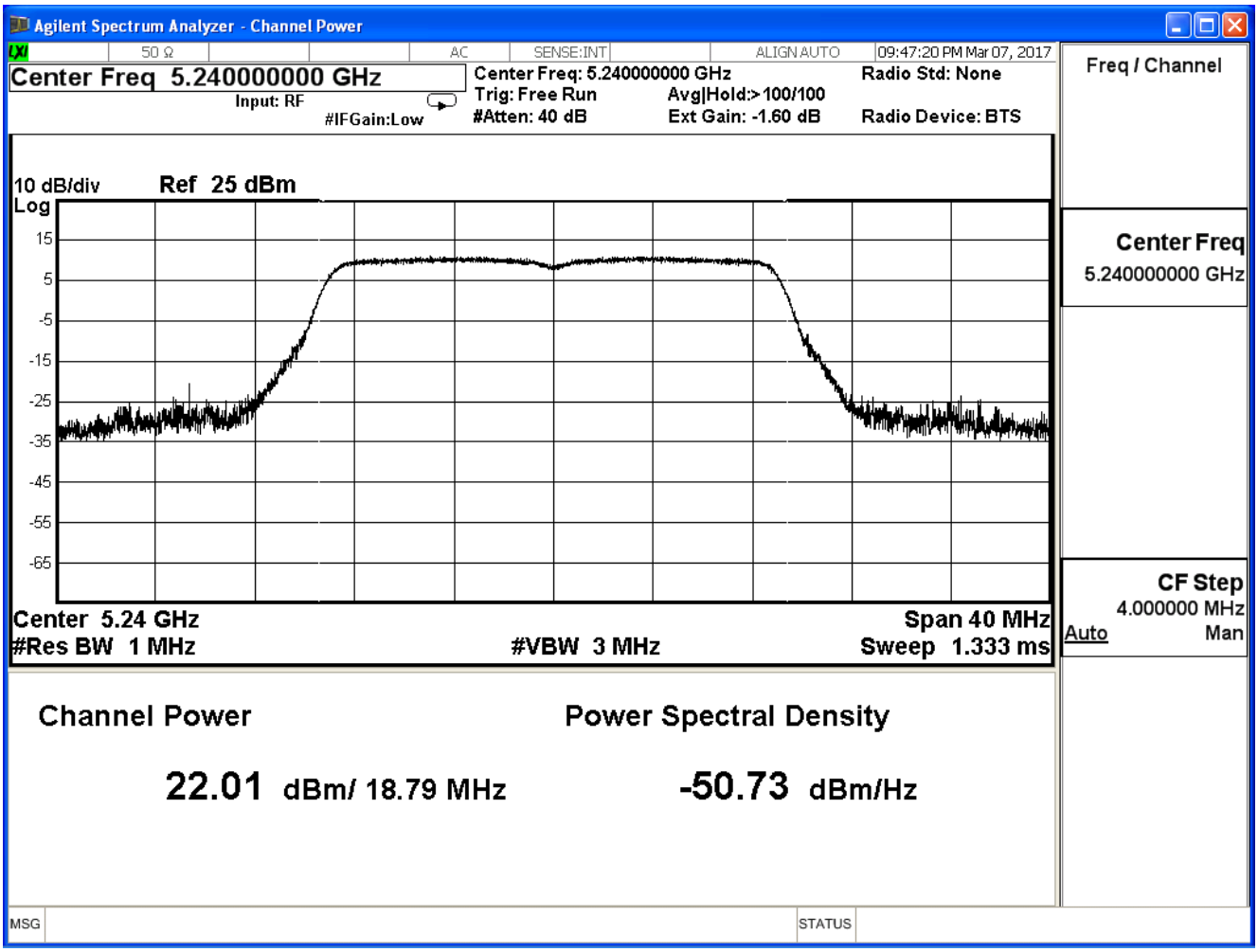
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	25.261	≤30
44	5220	27.741	≤30
48	5240	28.051	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

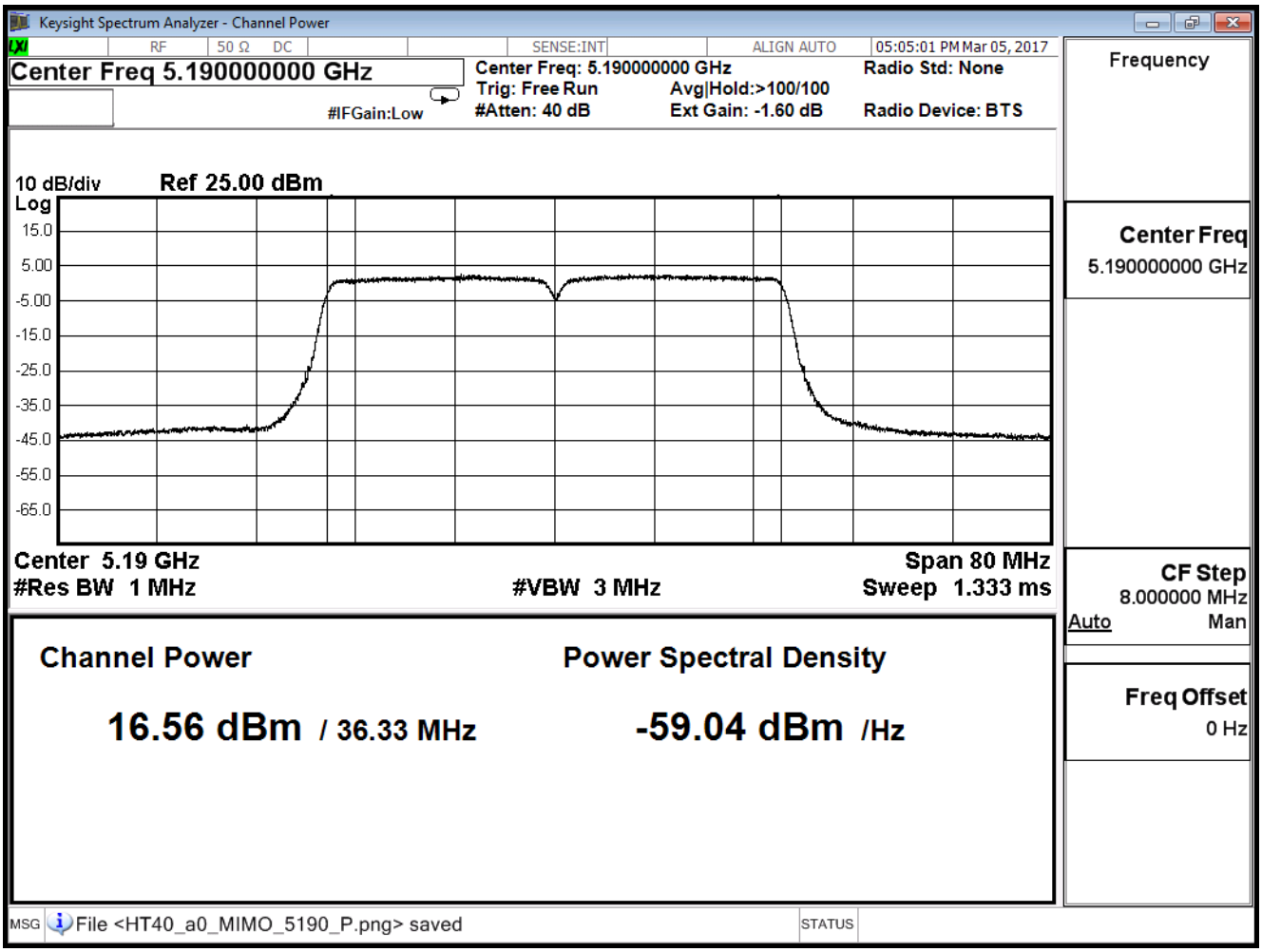
IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	16.560	≤30
46	5230	22.160	≤30

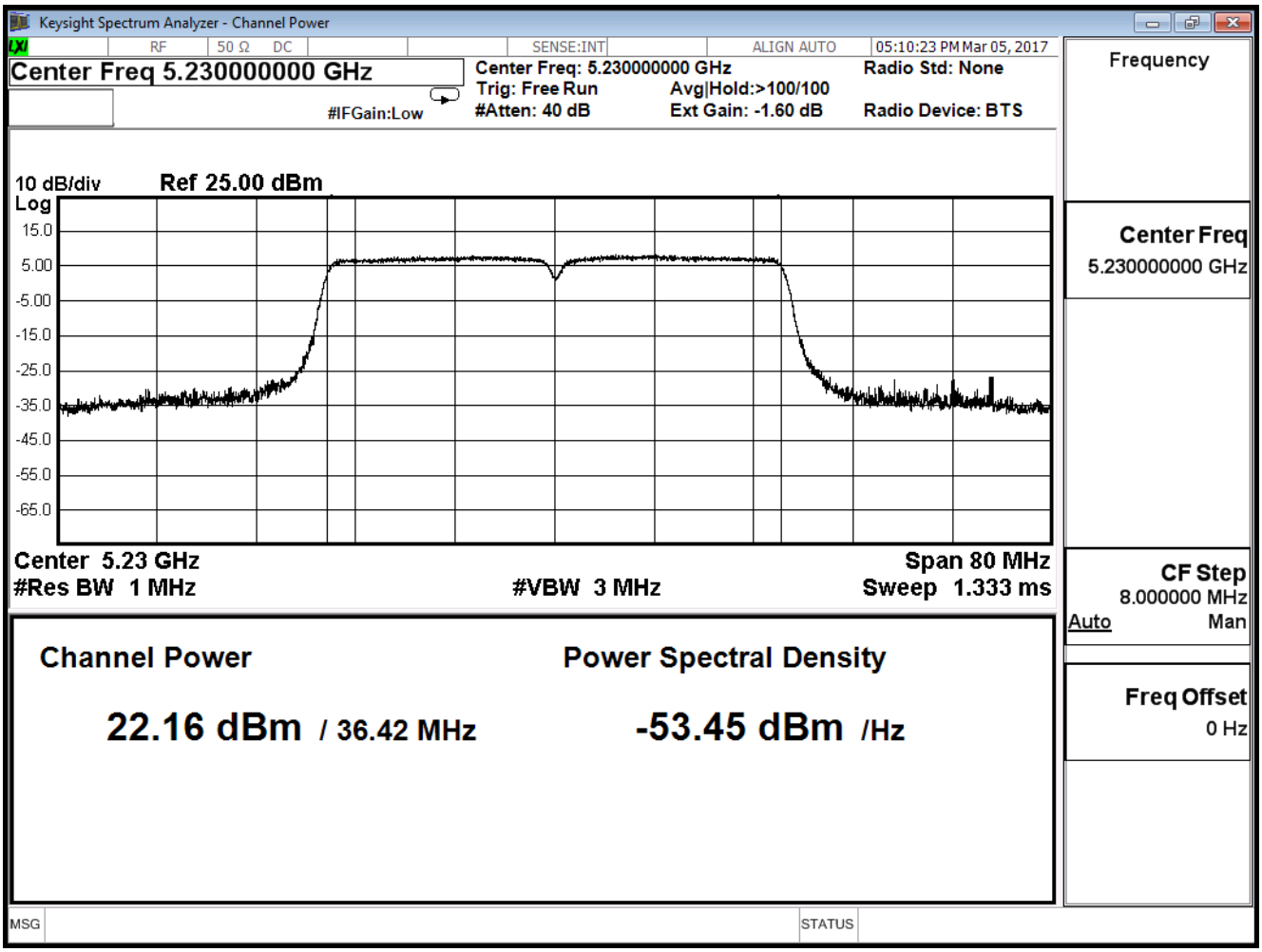
The worst emission of data rate is MCS 24

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
38	5190	16.560	--	--	--	--	--	--	--	≤30dBm
46	5230	22.160	22.020	21.900	21.810	21.620	21.530	21.410	21.220	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

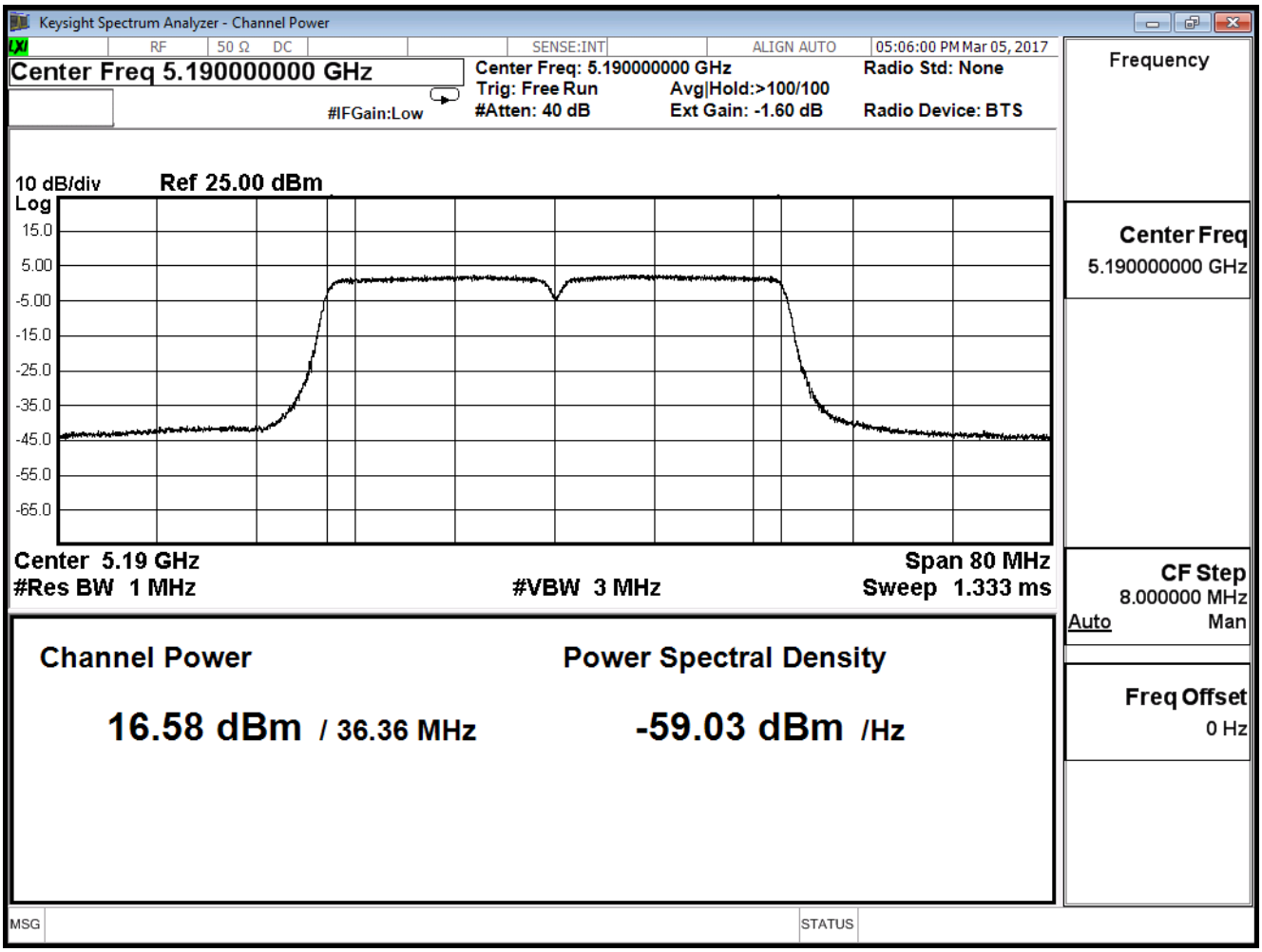
IEEE 802.11n(40MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	16.580	≤30
46	5230	22.210	≤30

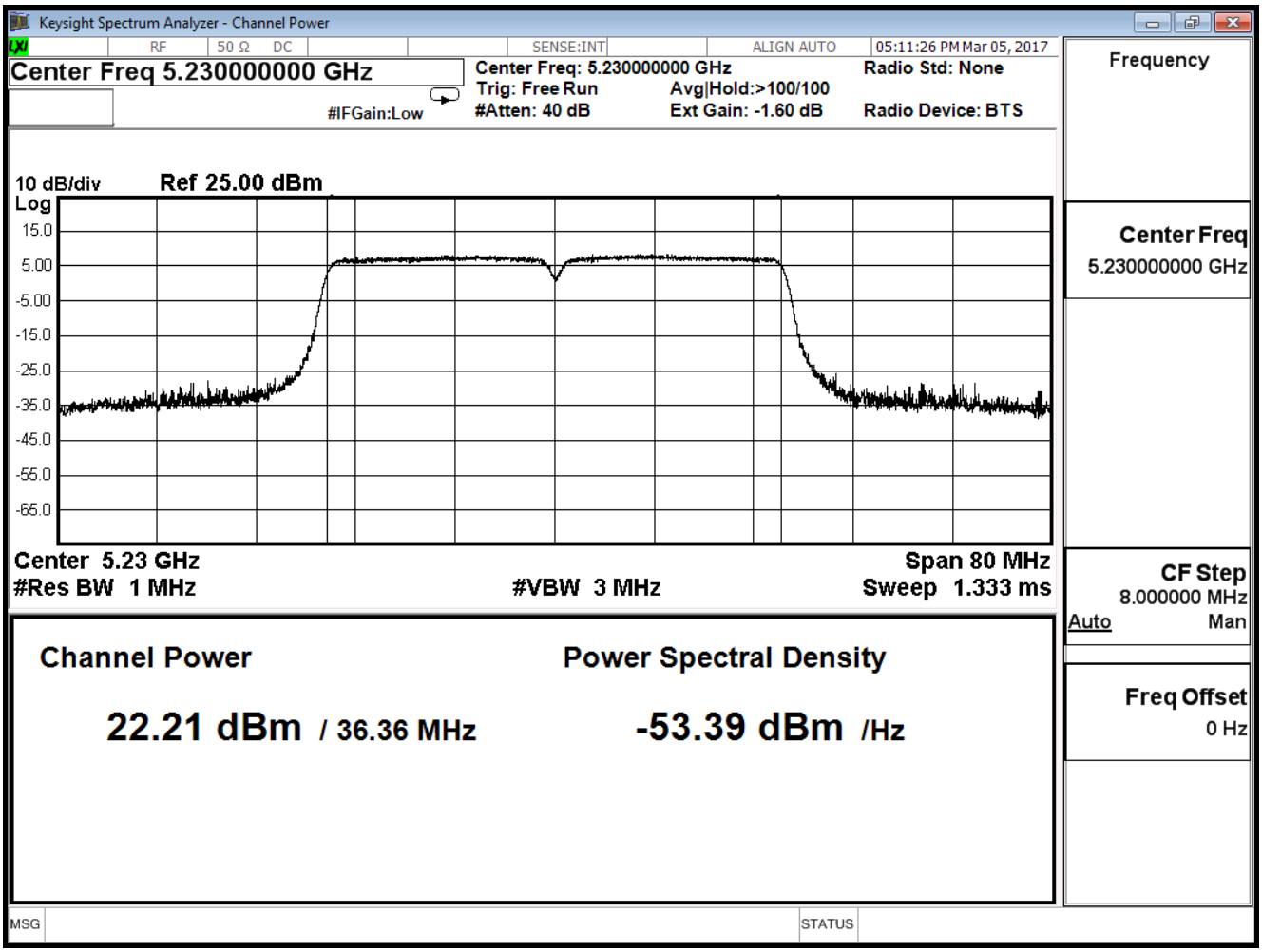
The worst emission of data rate is MCS 24

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
38	5190	16.580	--	--	--	--	--	--	--	≤30dBm
46	5230	22.210	21.120	21.020	21.920	20.810	20.660	20.430	20.120	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

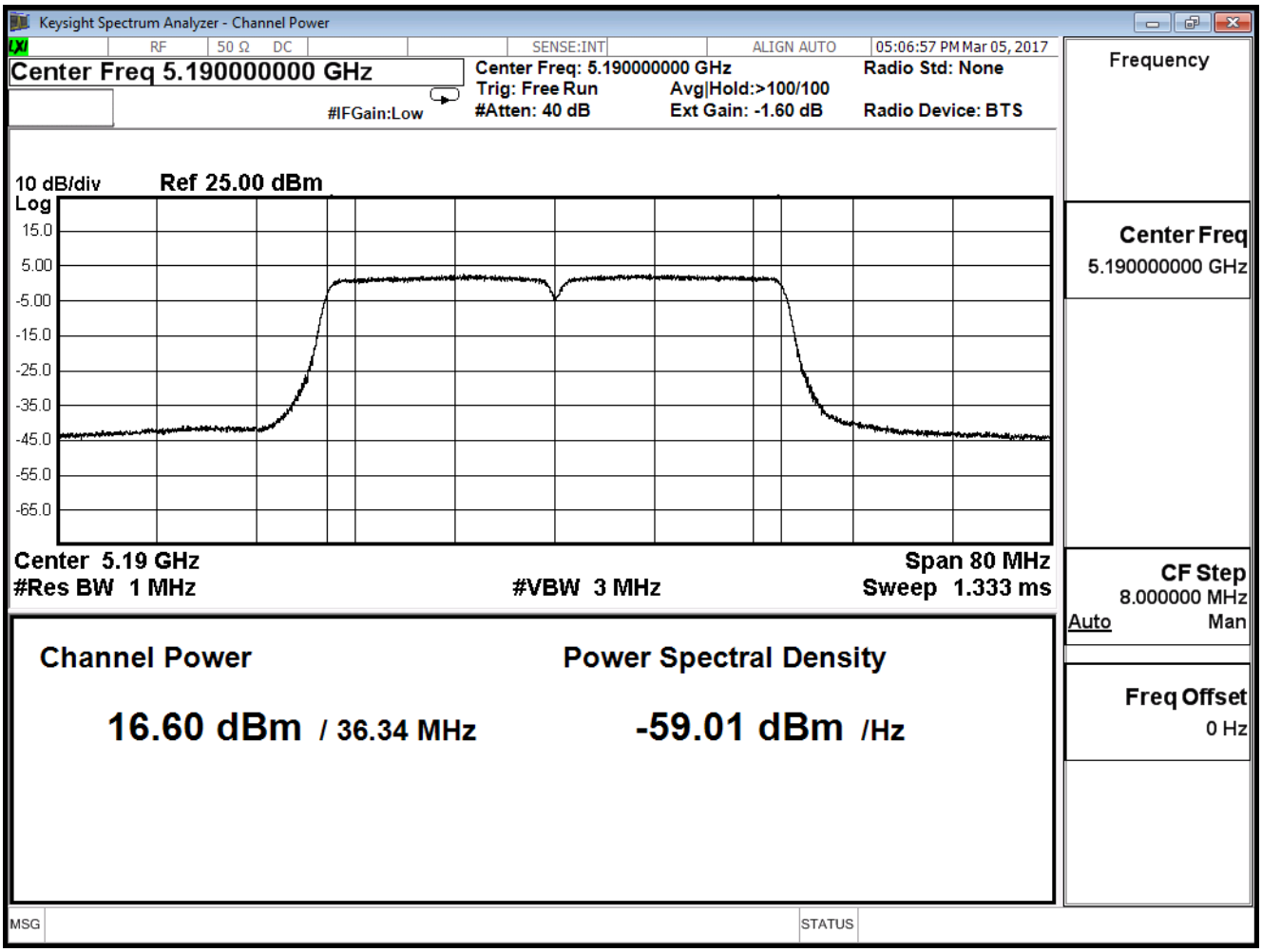
IEEE 802.11n(40MHz)(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	16.600	≤30
46	5230	22.140	≤30

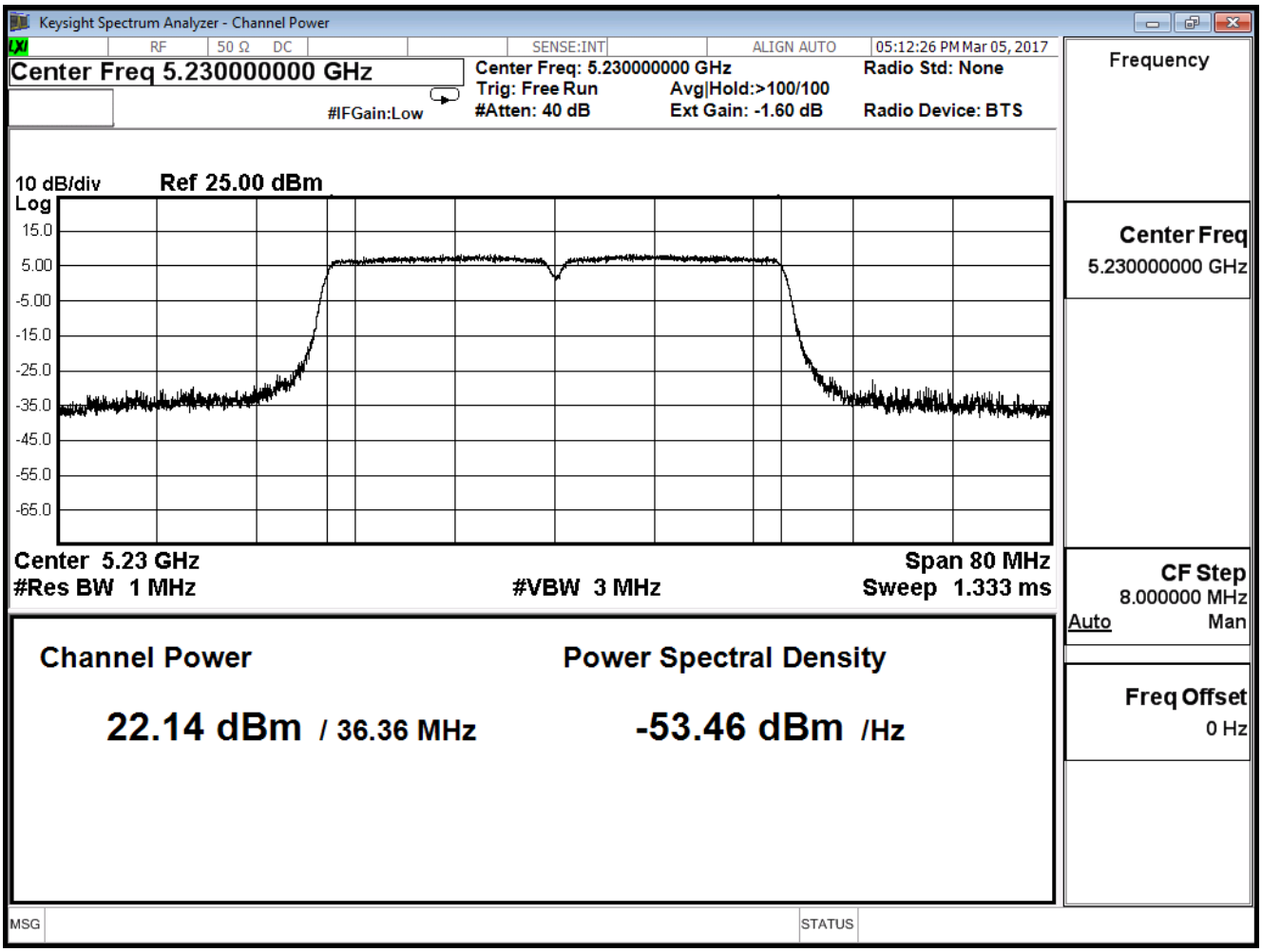
The worst emission of data rate is MCS 24

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
38	5190	16.600	--	--	--	--	--	--	--	≤30dBm
46	5230	22.140	22.010	21.910	21.800	21.660	21.430	21.210	21.030	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

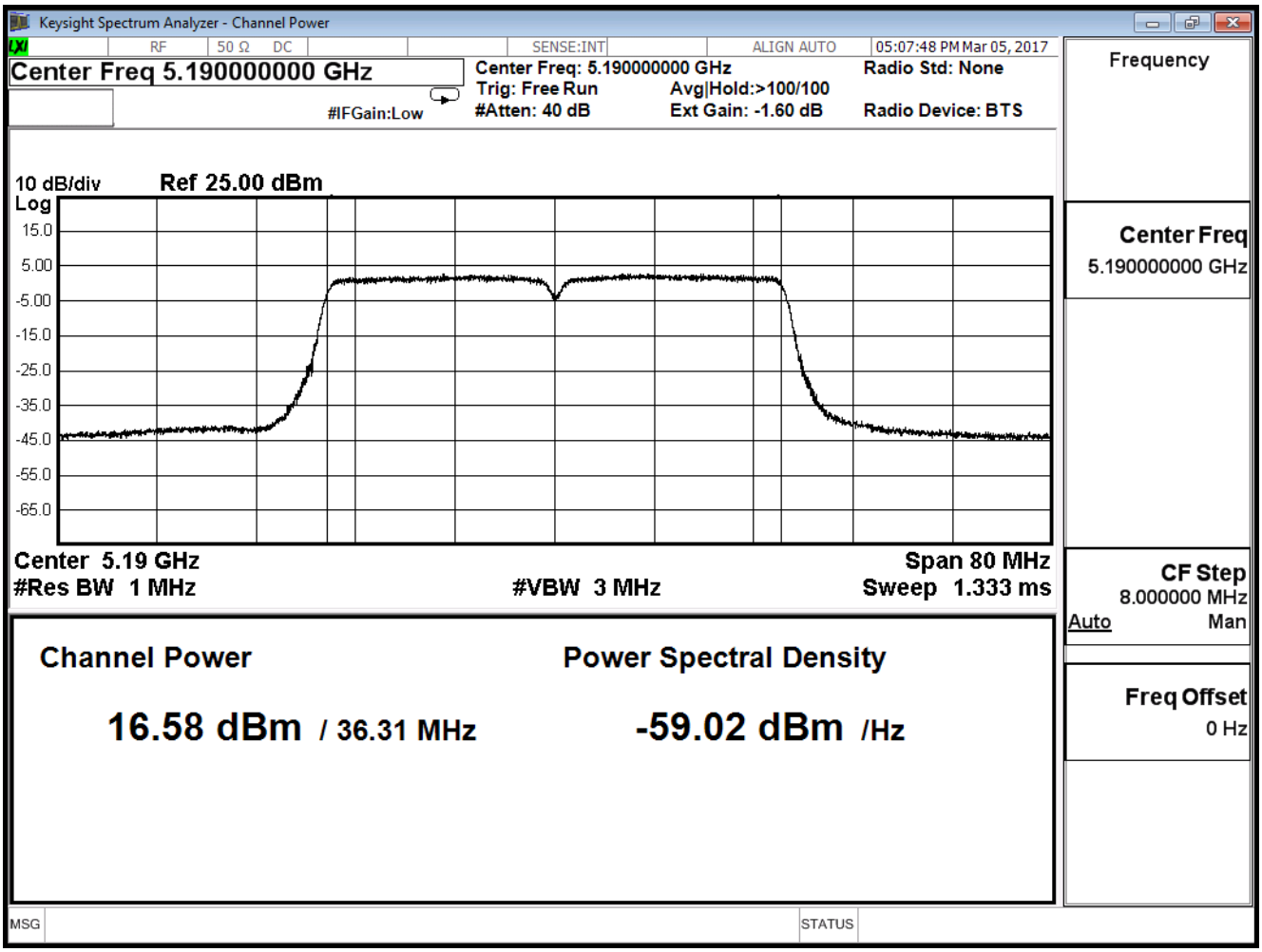
IEEE 802.11n(40MHz)(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	16.580	≤30
46	5230	22.130	≤30

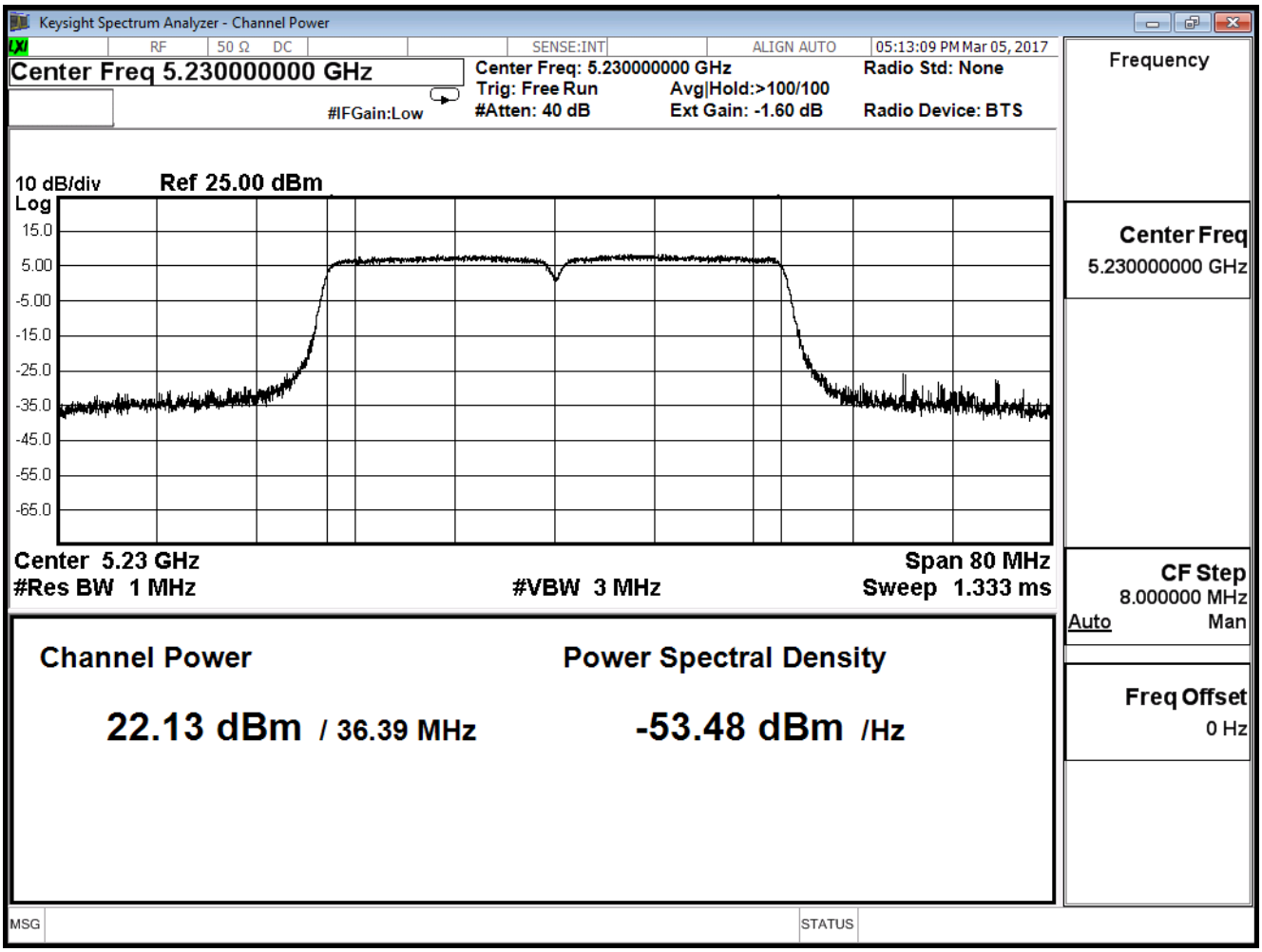
The worst emission of data rate is MCS 24

Channel	Frequency	MCS Index								Required
No	(MHz)	24	25	26	27	28	29	30	31	Limit
38	5190	16.580	--	--	--	--	--	--	--	≤30dBm
46	5230	22.130	22.010	21.900	21.710	21.530	21.320	21.210	21.080	

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	22.601	≤30
46	5230	28.181	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

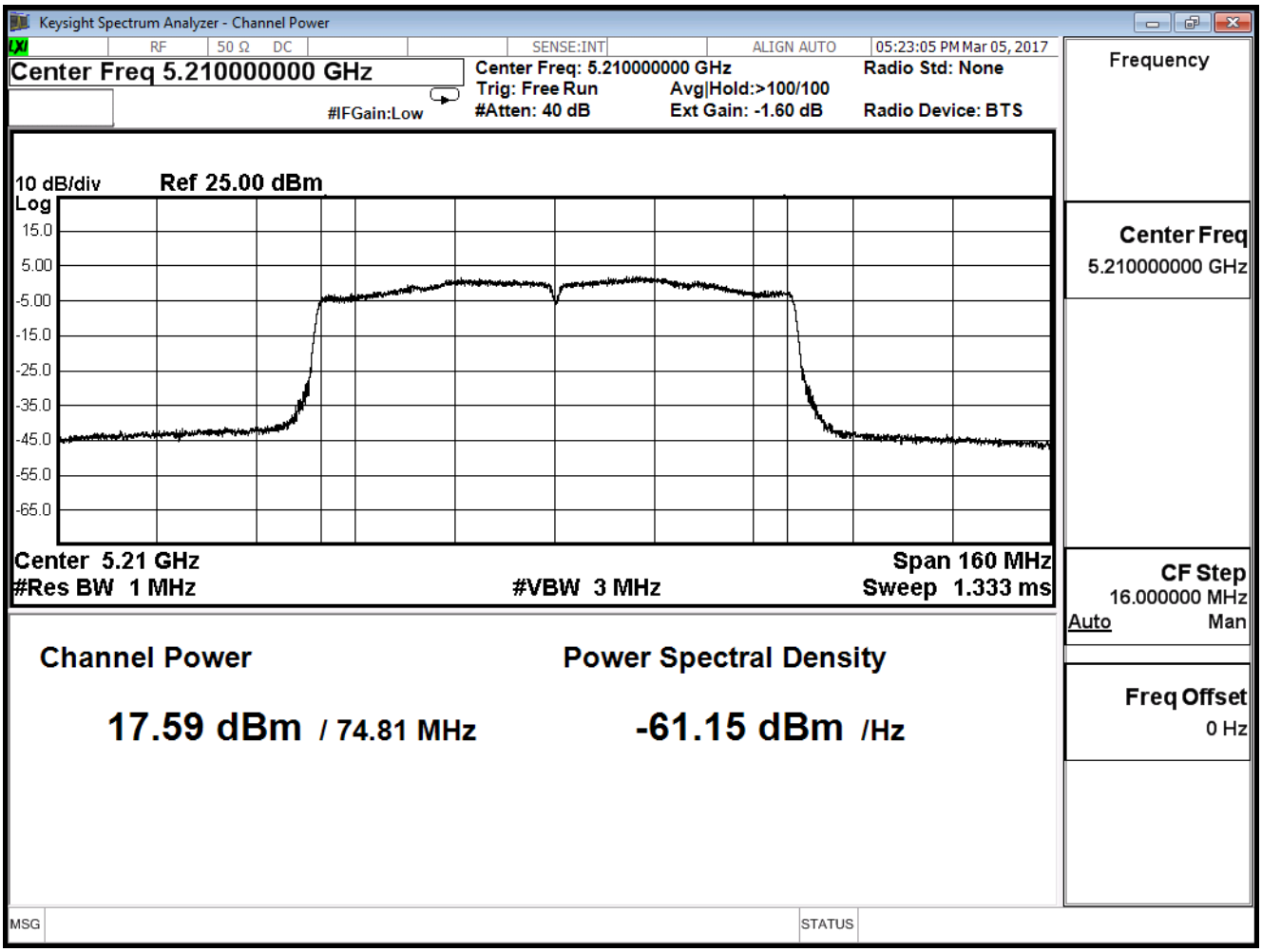
IEEE 802.11ac(80MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.590	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
42	5210	17.590	17.320	17.180	17.020	16.890	16.70	16.500	16.330	16.080	15.920	≤30dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

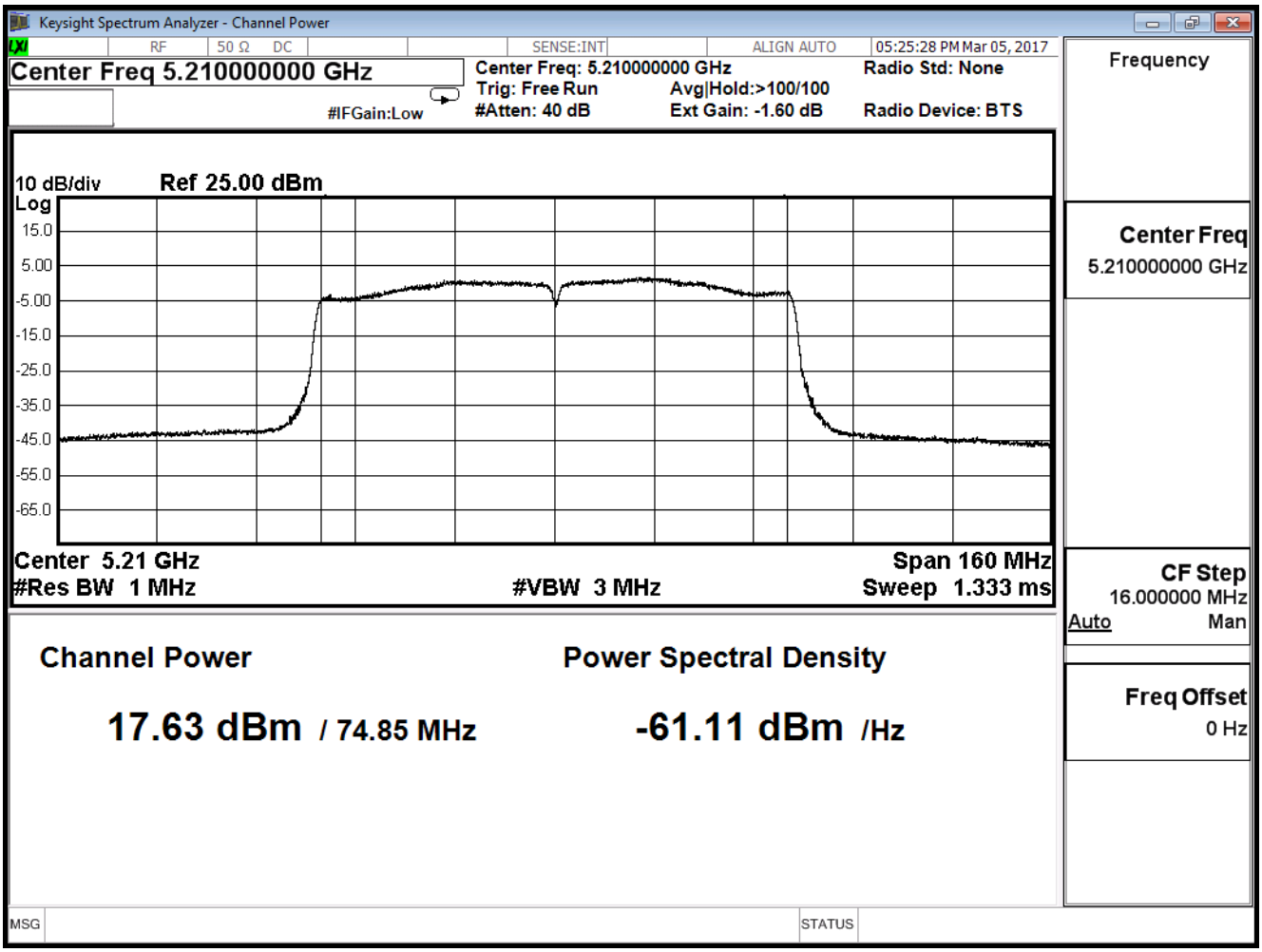
IEEE 802.11ac(80MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.630	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
42	5210	17.630	17.430	17.180	17.020	16.930	16.720	16.580	16.320	16.110	15.920	≤30dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

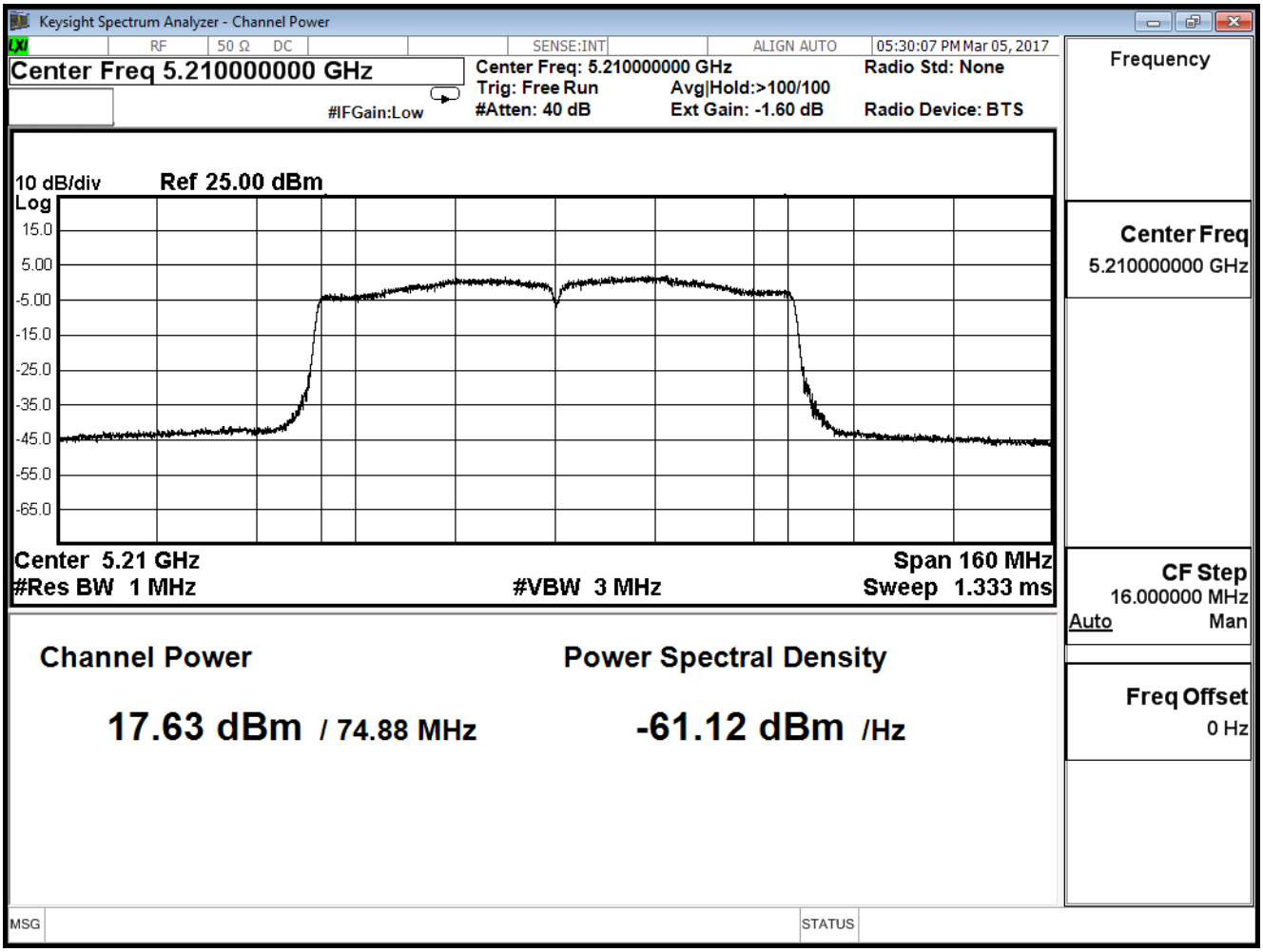
IEEE 802.11ac(80MHz) (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.630	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
42	5210	17.630	17.510	17.330	17.100	16.920	16.820	16.530	16.230	16.080	15.820	≤30dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

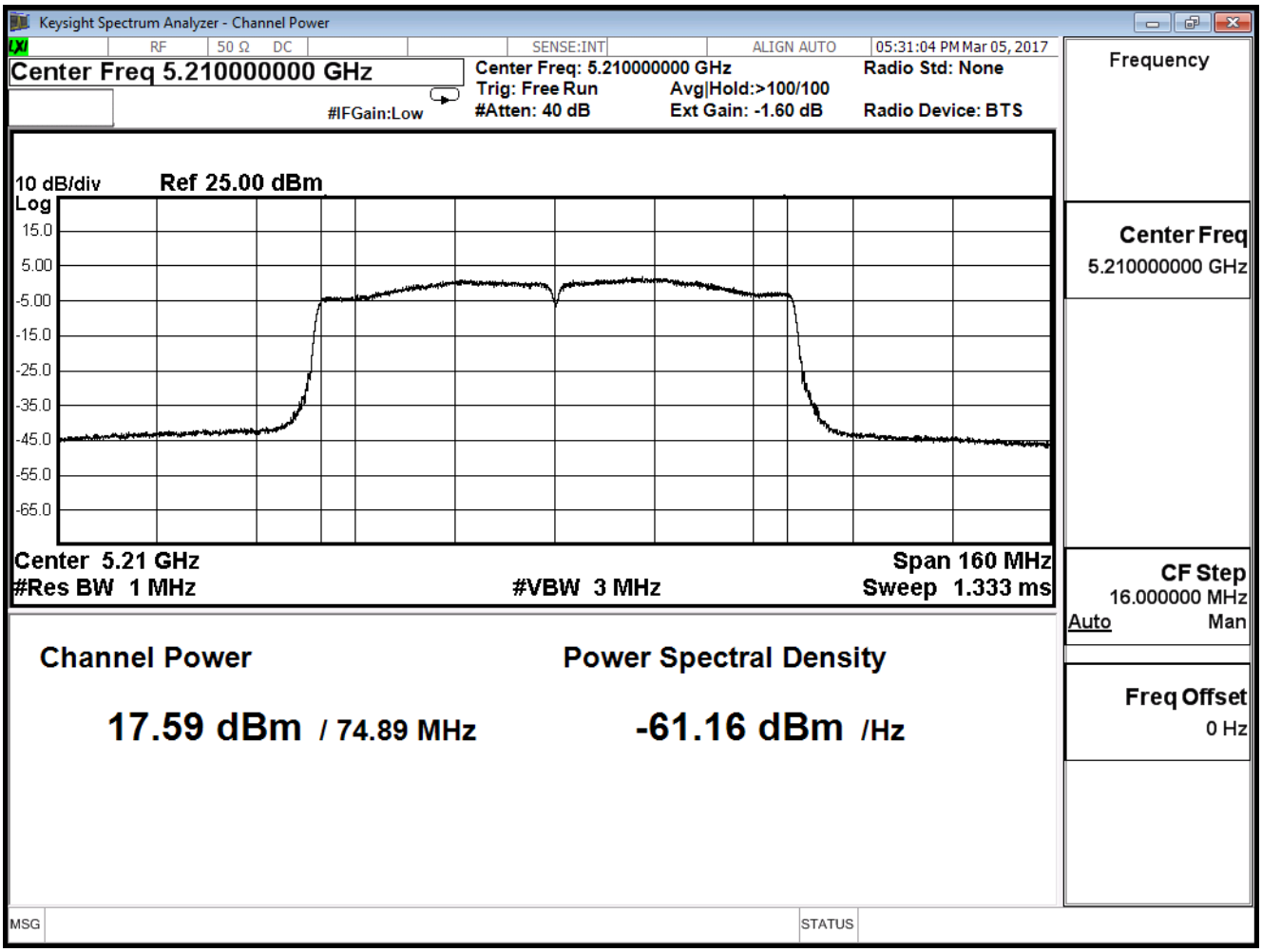
IEEE 802.11ac(80MHz) (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	17.590	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
42	5210	17.590	17.220	17.030	16.890	16.660	16.320	16.180	15.990	15.780	15.580	≤30dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	23.631	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.550	≤29.66
44	5220	21.730	≤29.66
48	5240	22.020	≤29.66

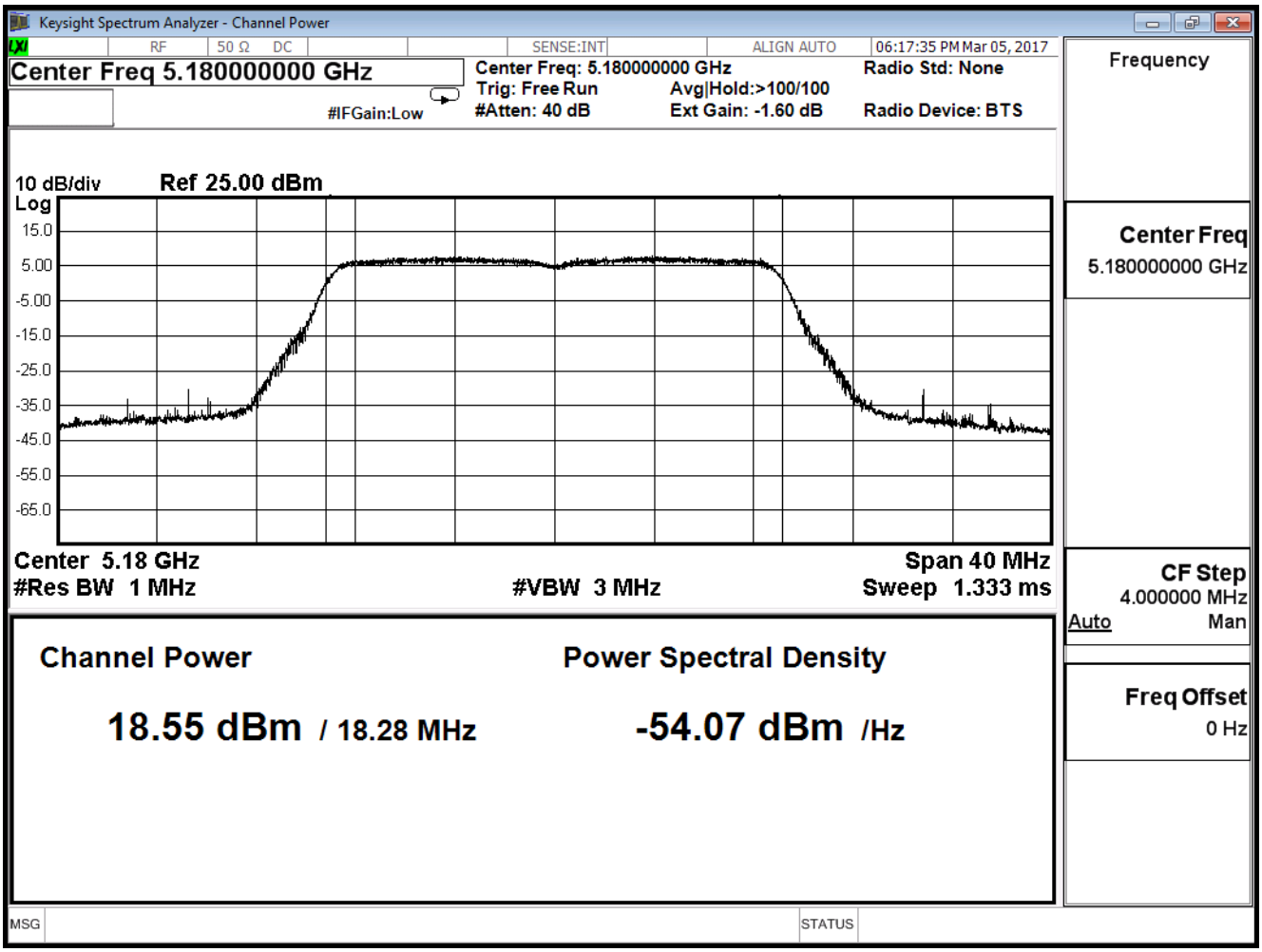
The worst emission of data rate is MCS 0

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
36	5180	18.550	--	--	--	--	--	--	--	≤29.66
44	5220	21.730	21.620	21.550	21.500	21.420	21.330	21.240	21.130	
48	5240	22.020	--	--	--	--	--	--	--	

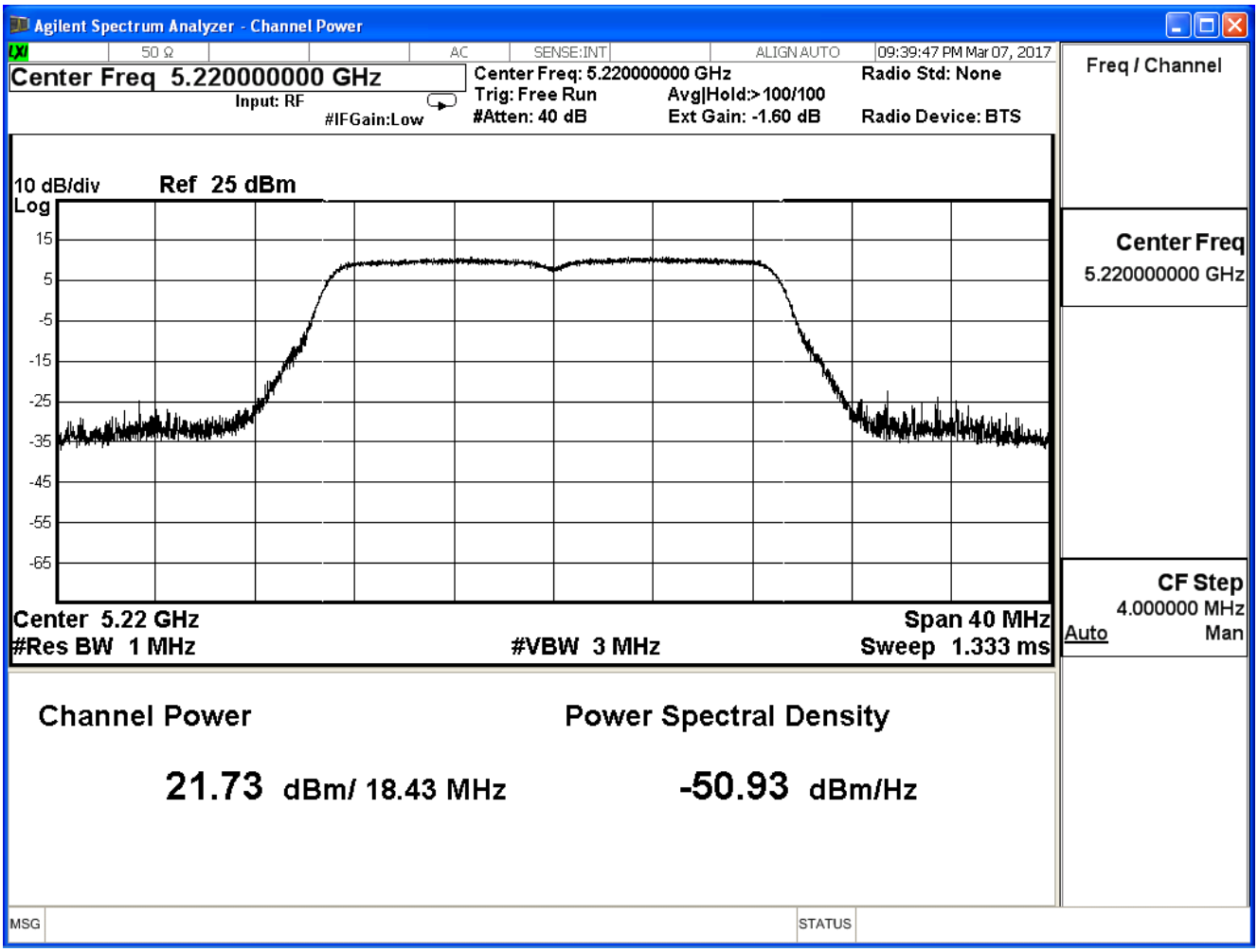
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

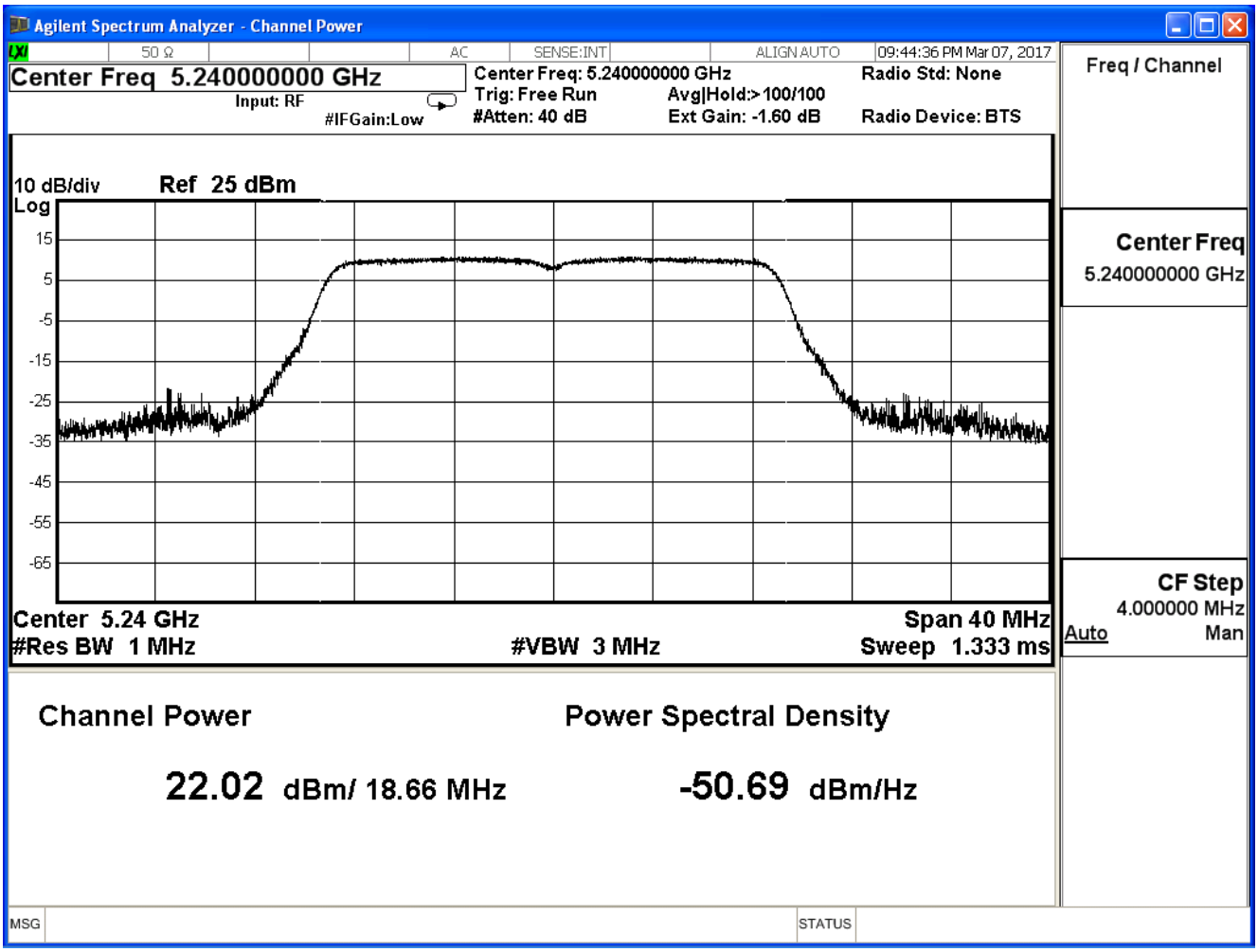
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.520	≤29.66
44	5220	21.680	≤29.66
48	5240	22.050	≤29.66

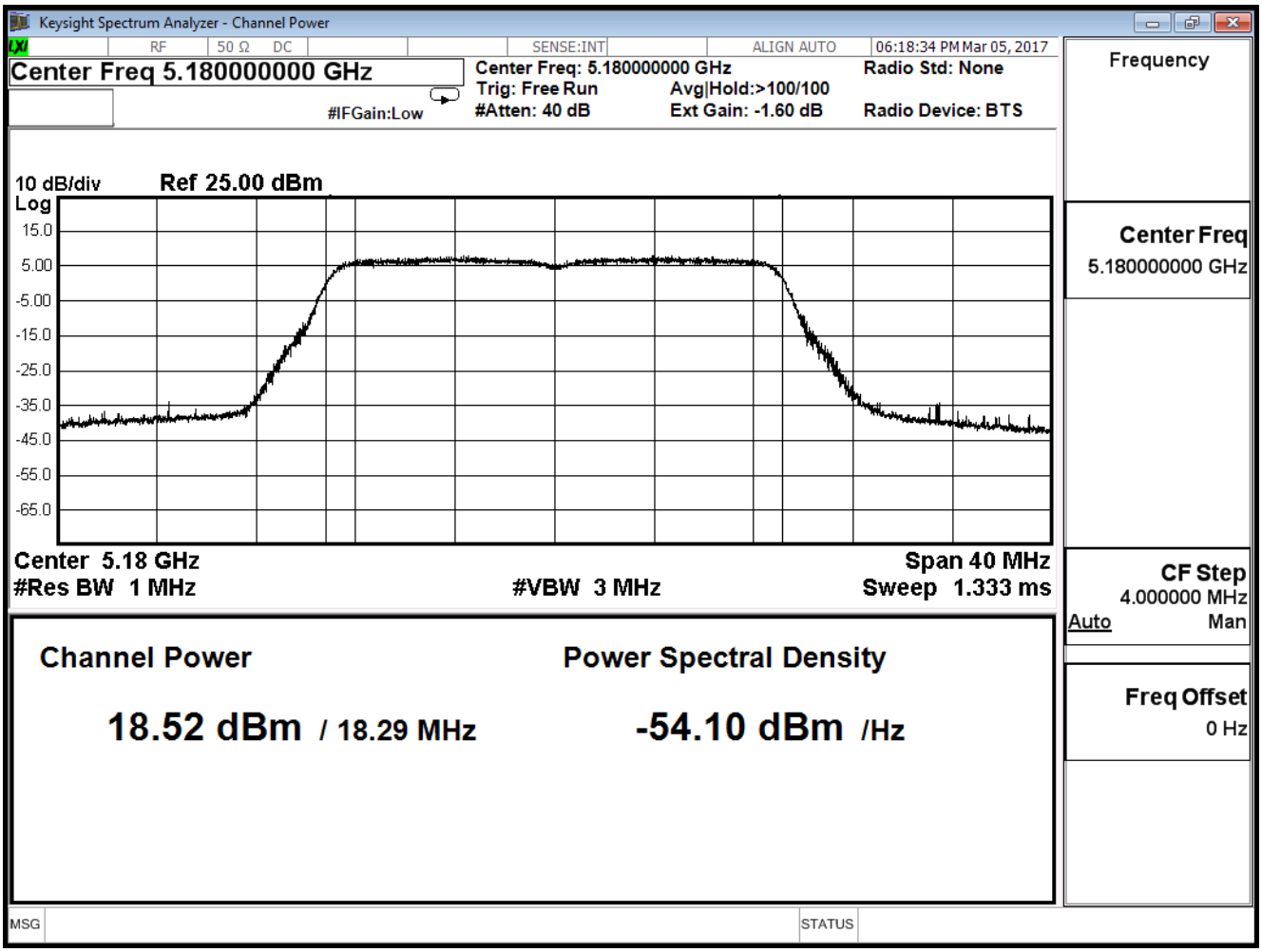
The worst emission of data rate is MCS 0

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
36	5180	18.520	--	--	--	--	--	--	--	≤29.66
44	5220	21.680	21.600	21.510	21.390	21.300	21.220	21.110	21.030	
48	5240	22.050	--	--	--	--	--	--	--	

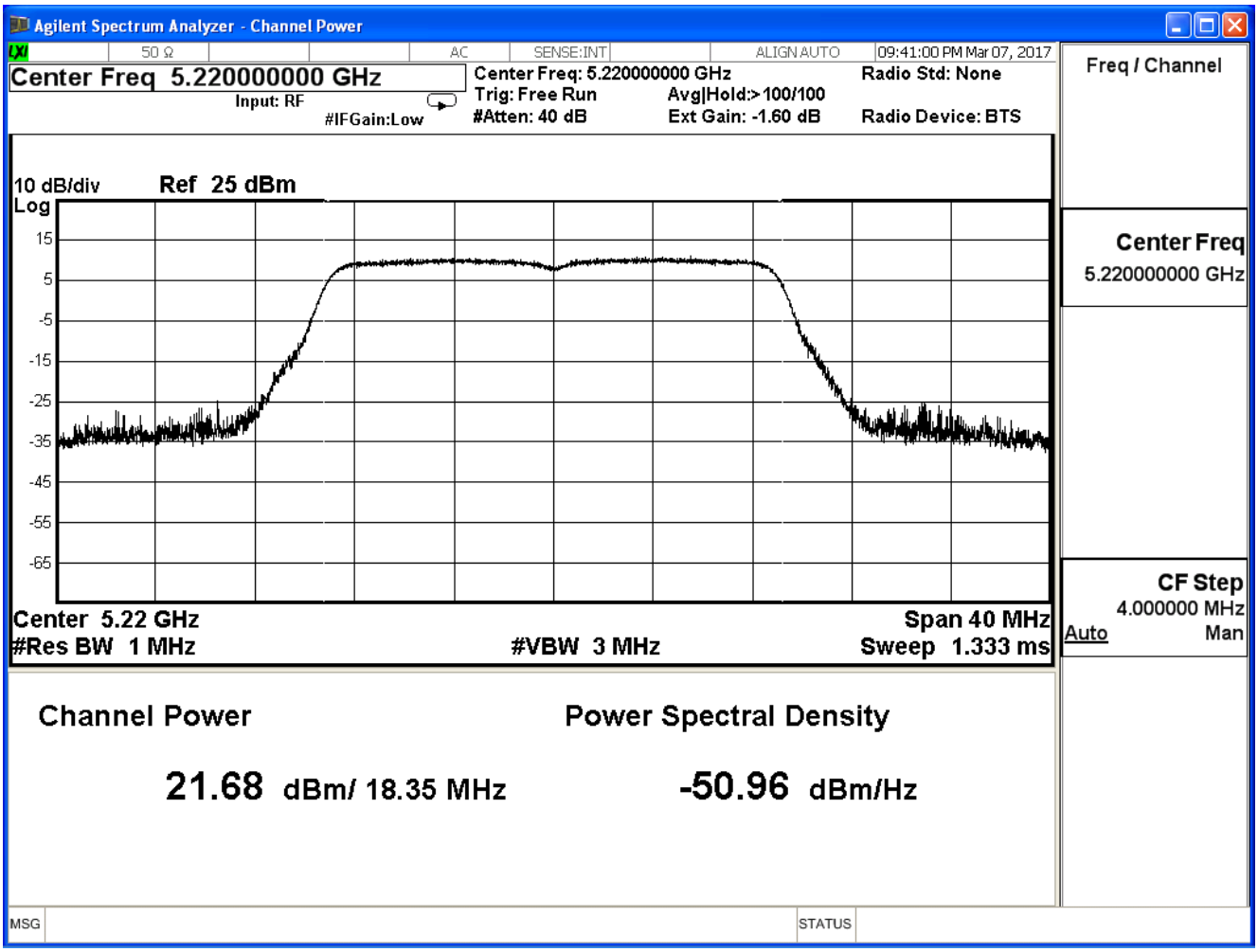
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

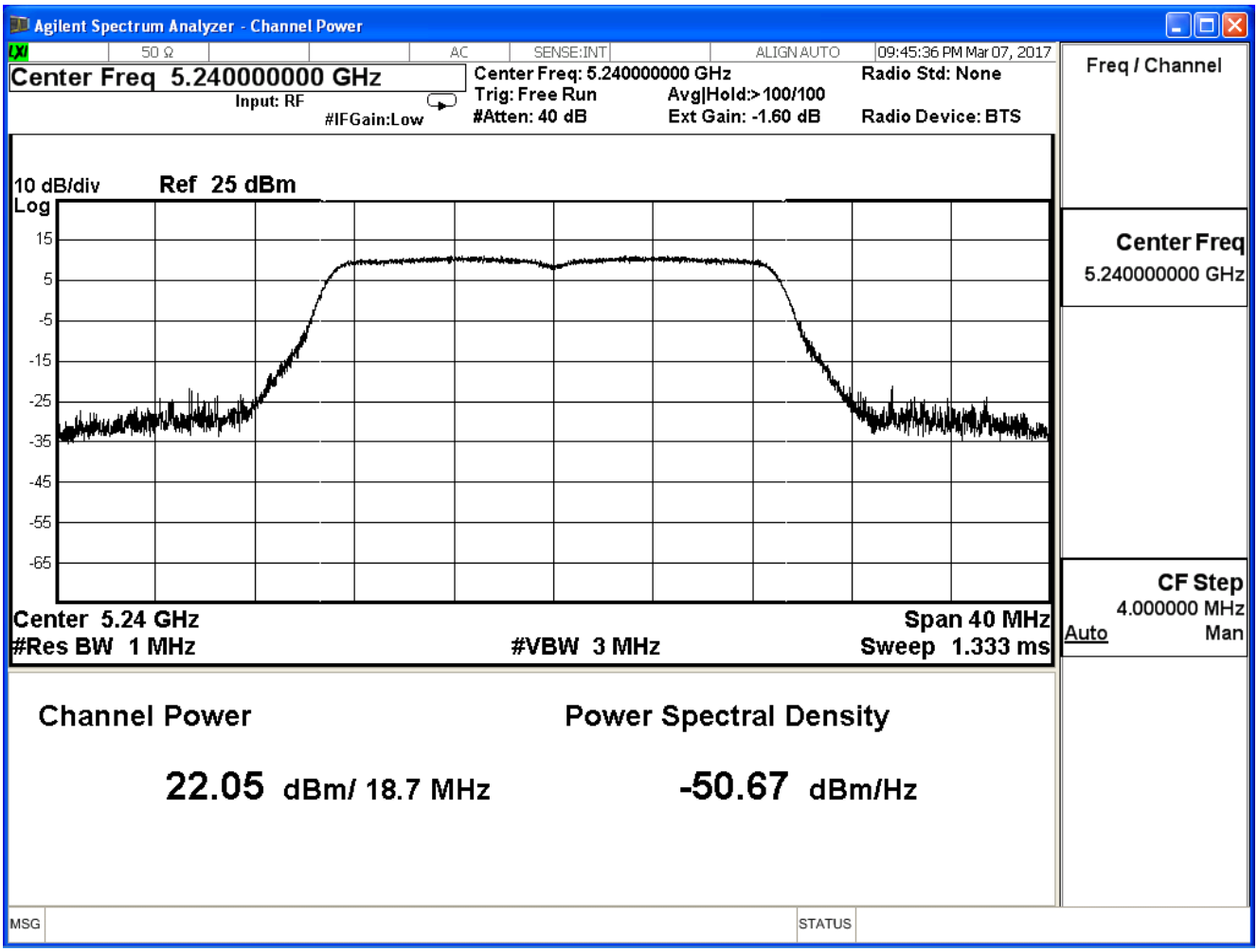
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.570	≤29.66
44	5220	21.720	≤29.66
48	5240	22.040	≤29.66

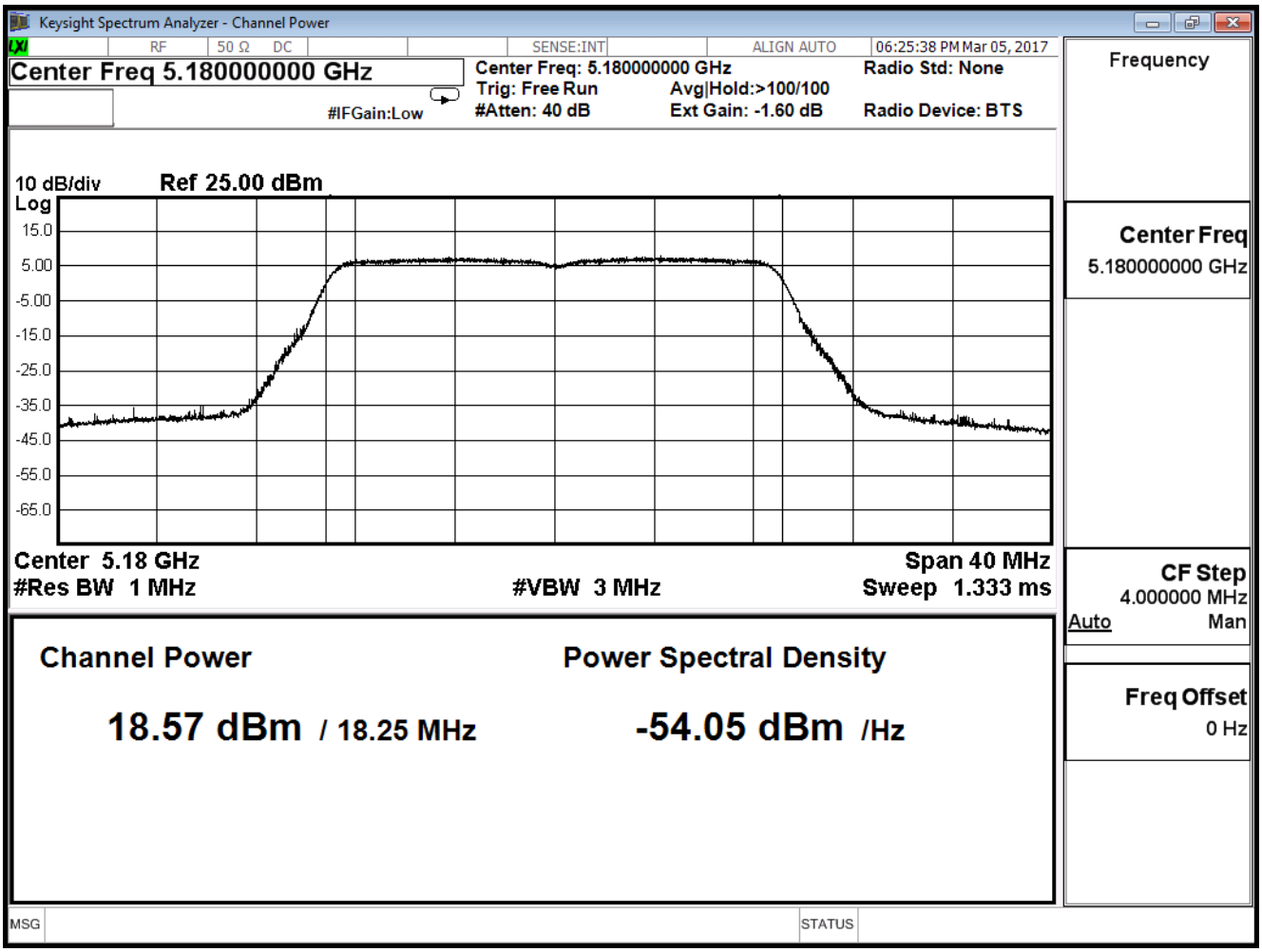
The worst emission of data rate is MCS 0

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
36	5180	18.570	--	--	--	--	--	--	--	≤29.66
44	5220	21.720	21.600	21.550	21.420	21.330	21.20	21.040	20.920	
48	5240	22.040	--	--	--	--	--	--	--	

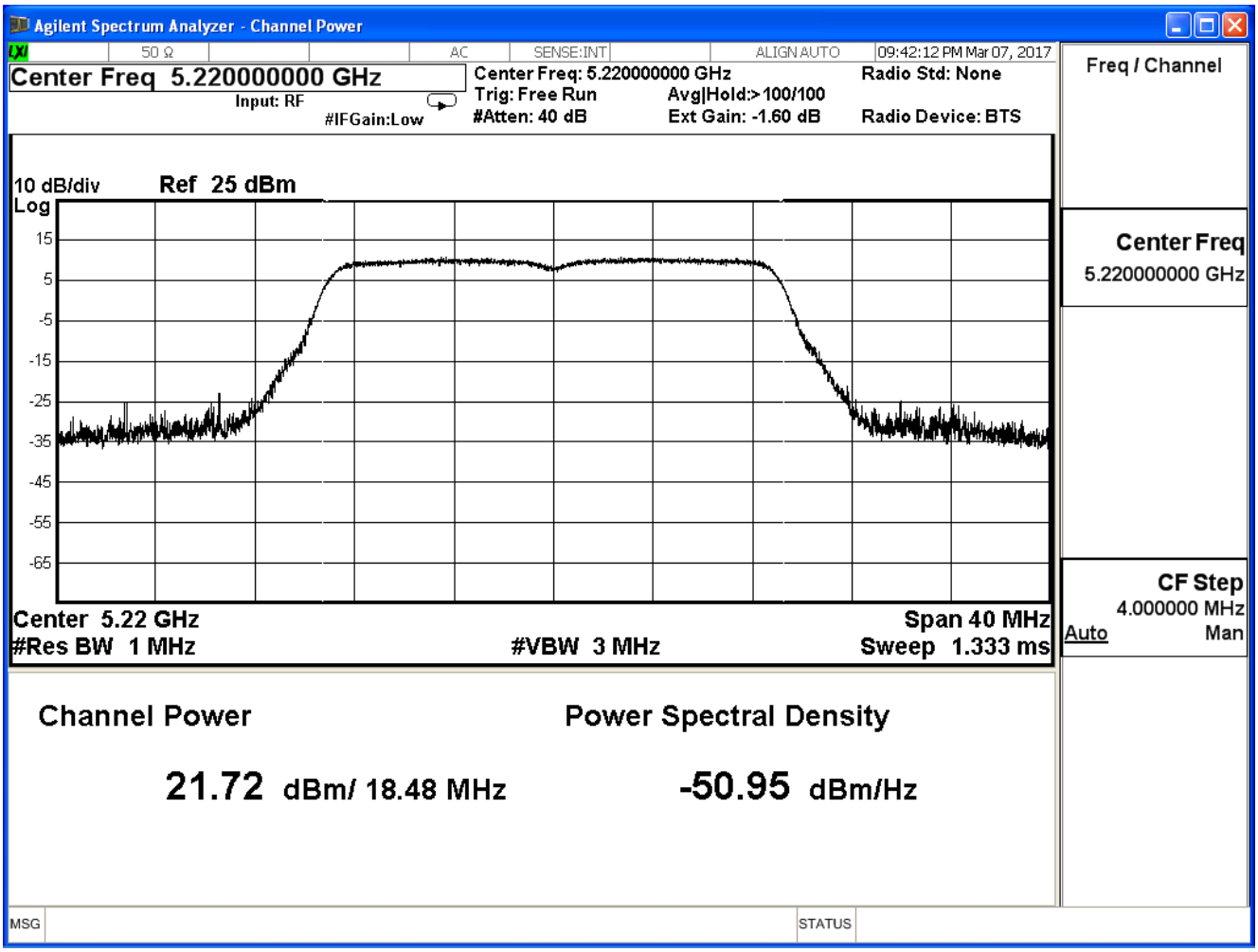
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

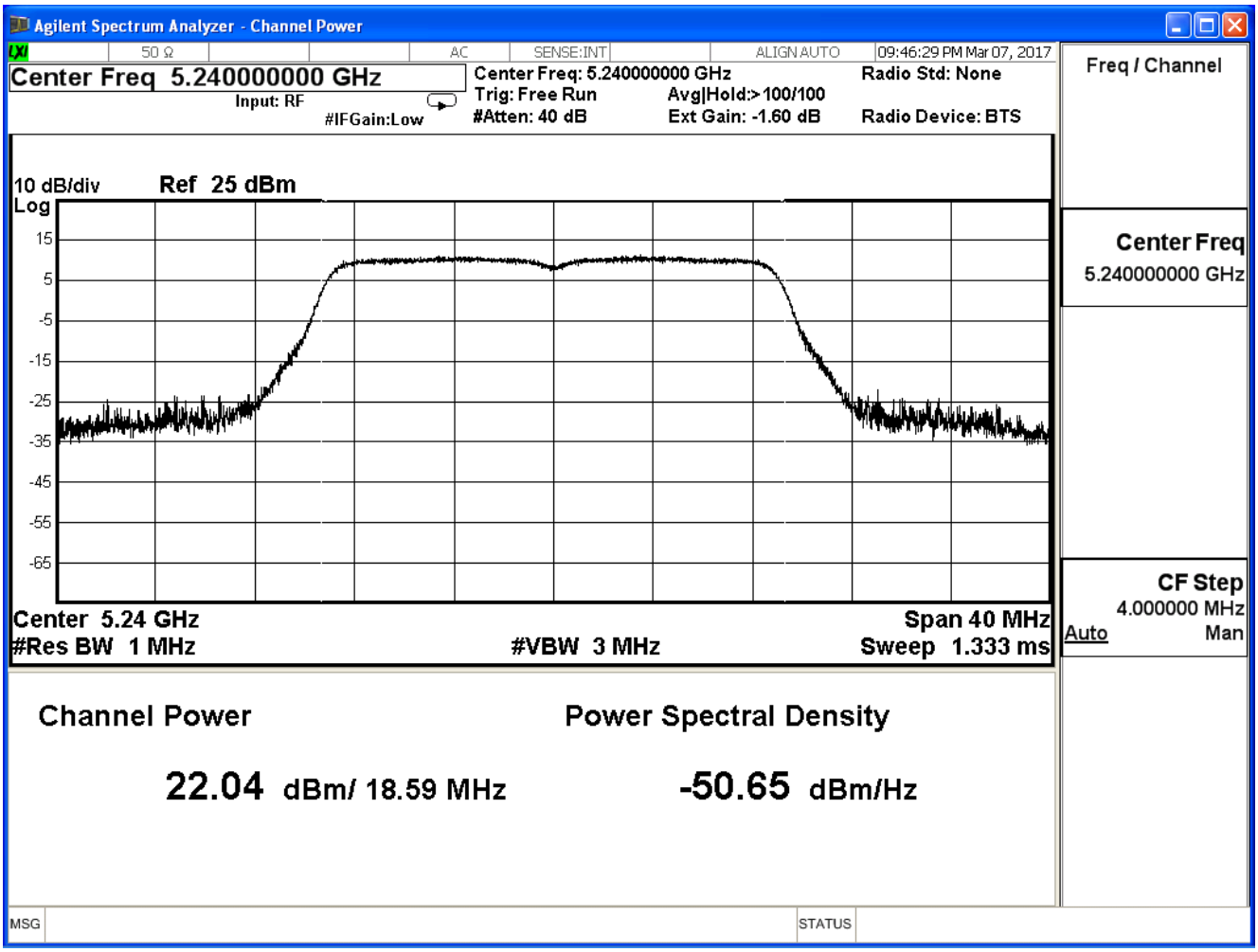
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	18.580	≤29.66
44	5220	21.750	≤29.66
48	5240	22.010	≤29.66

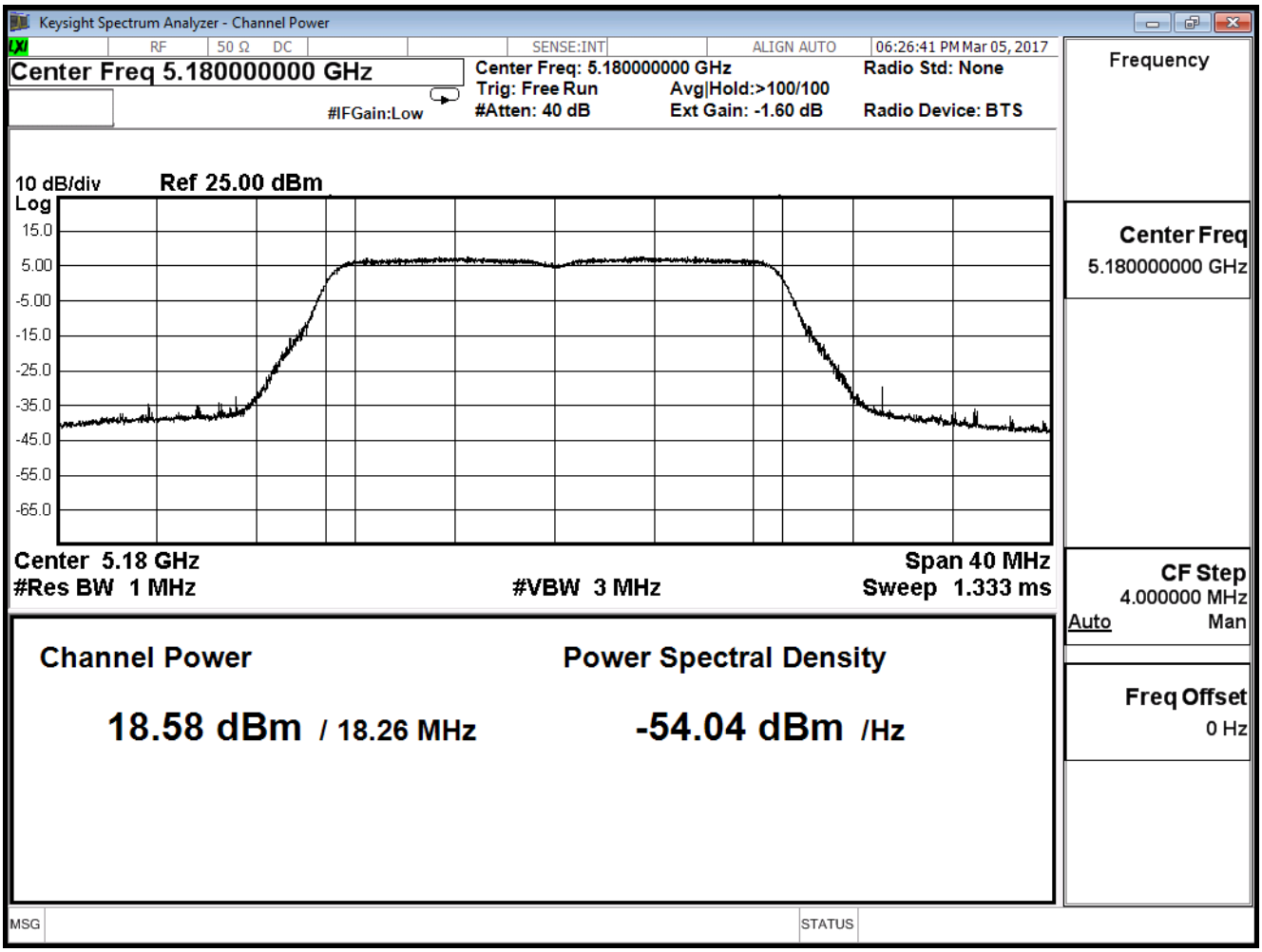
The worst emission of data rate is MCS 0

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
36	5180	18.580	--	--	--	--	--	--	--	≤29.66
44	5220	21.750	21.620	21.580	21.500	21.440	21.320	21.190	21.010	
48	5240	22.010	--	--	--	--	--	--	--	

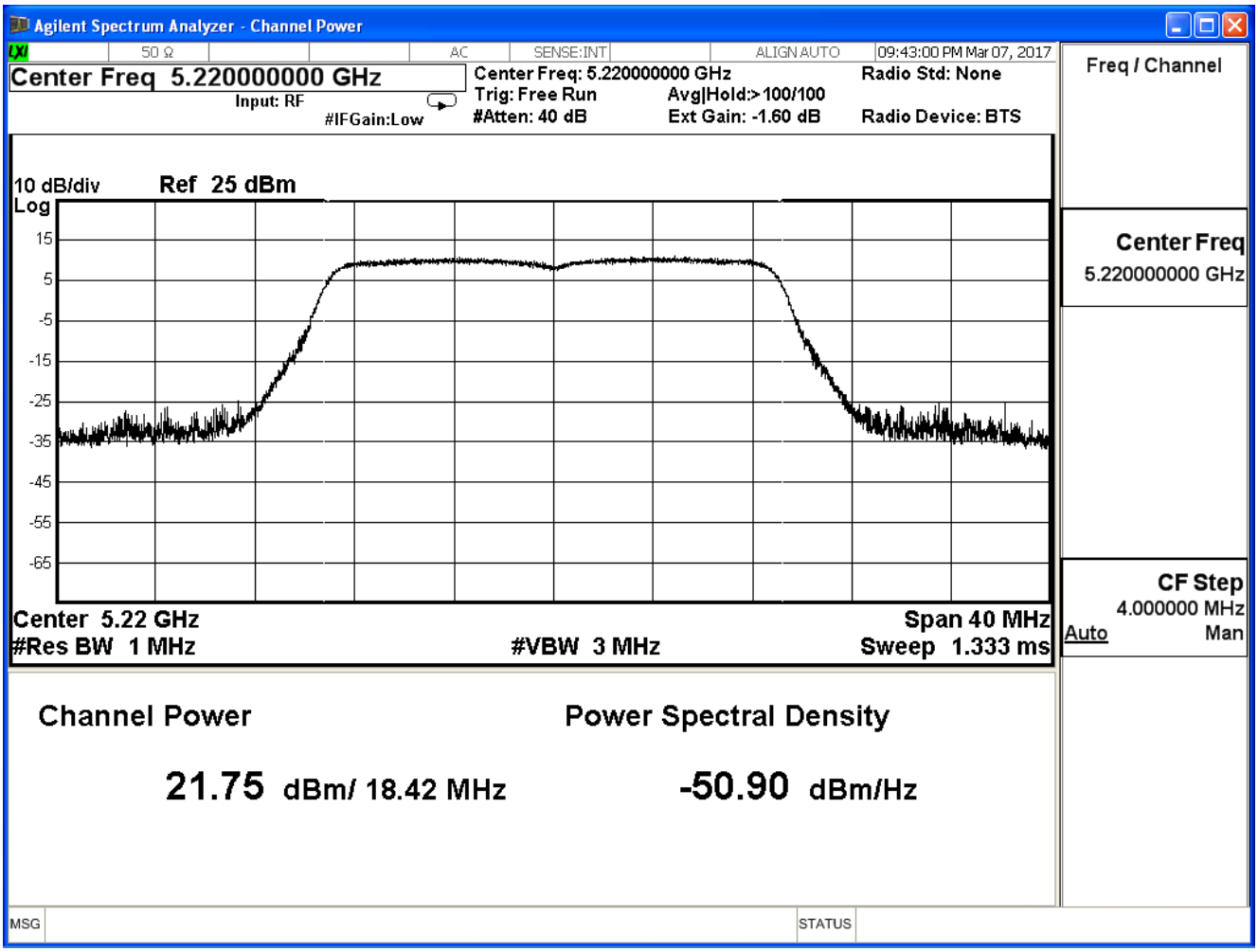
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

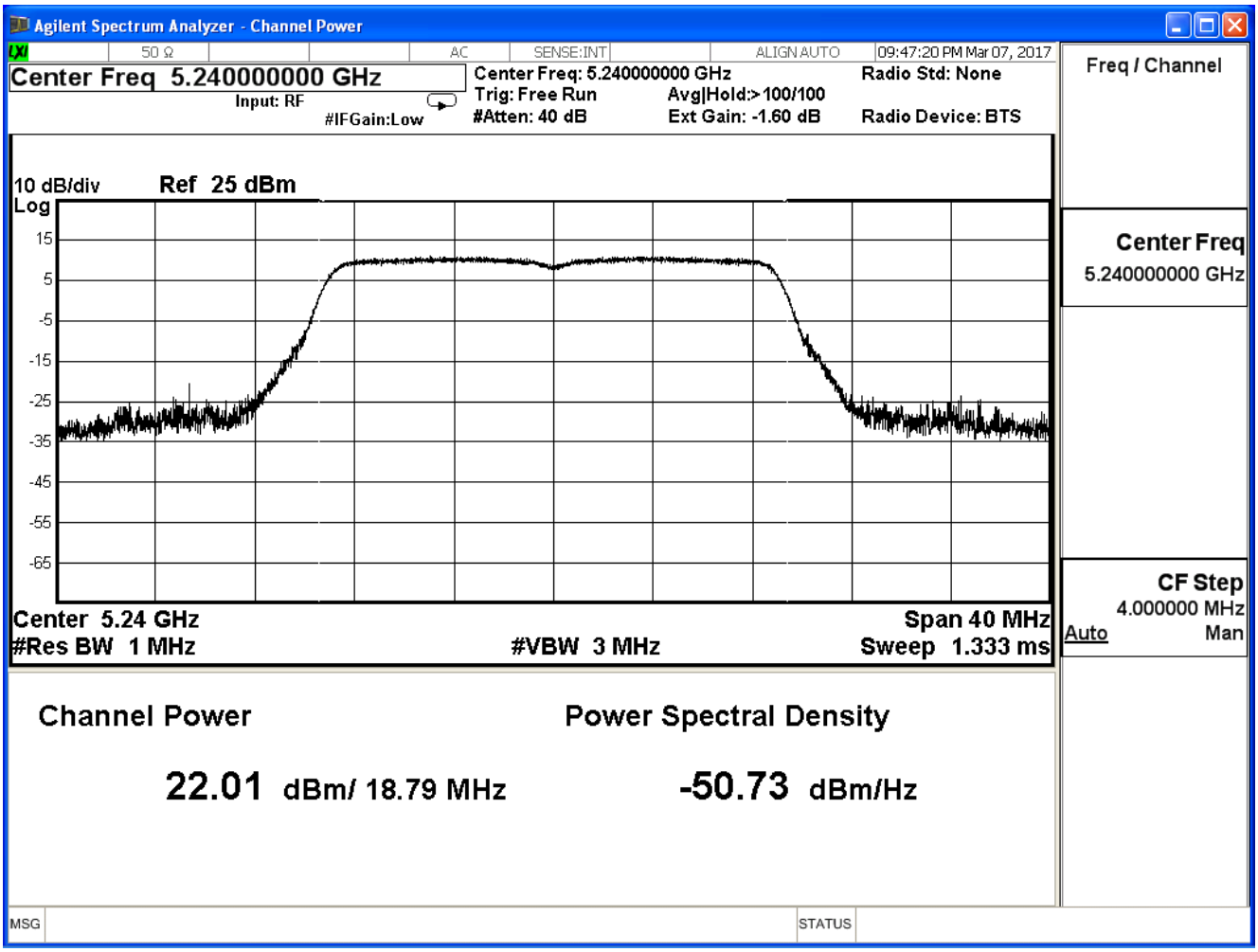
Peak transmit Power - Channel 36



Peak transmit Power - Channel 44



Peak transmit Power - Channel 48



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(20MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
36	5180	24.576	≤29.66
44	5220	27.741	≤29.66
48	5240	28.051	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	14.880	≤29.66
46	5230	20.730	≤29.66

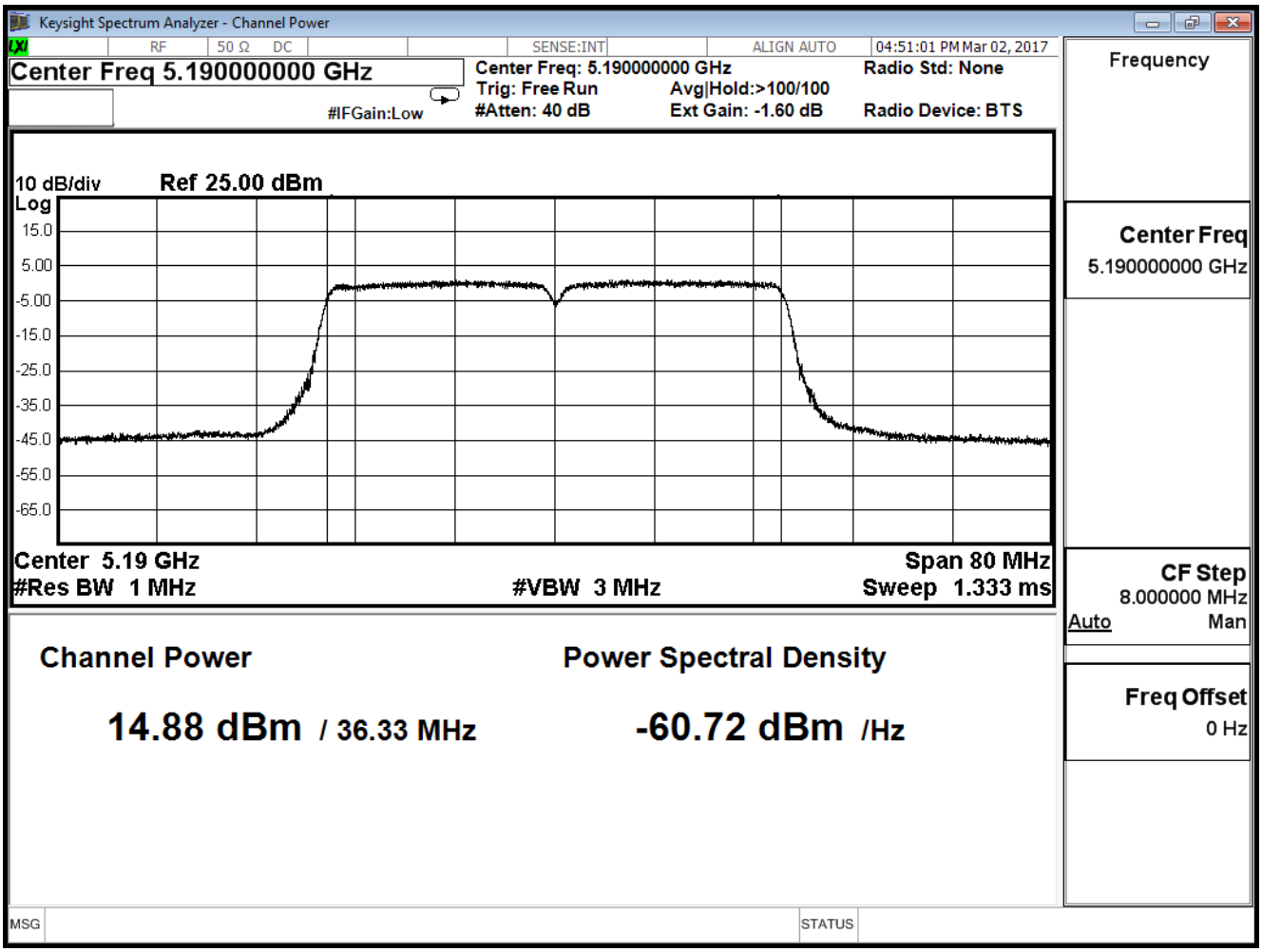
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
38	5190	14.880	--	--	--	--	--	--	--	≤29.66
46	5230	20.730	20.620	20.550	20.320	20.180	21.010	20.910	20.790	

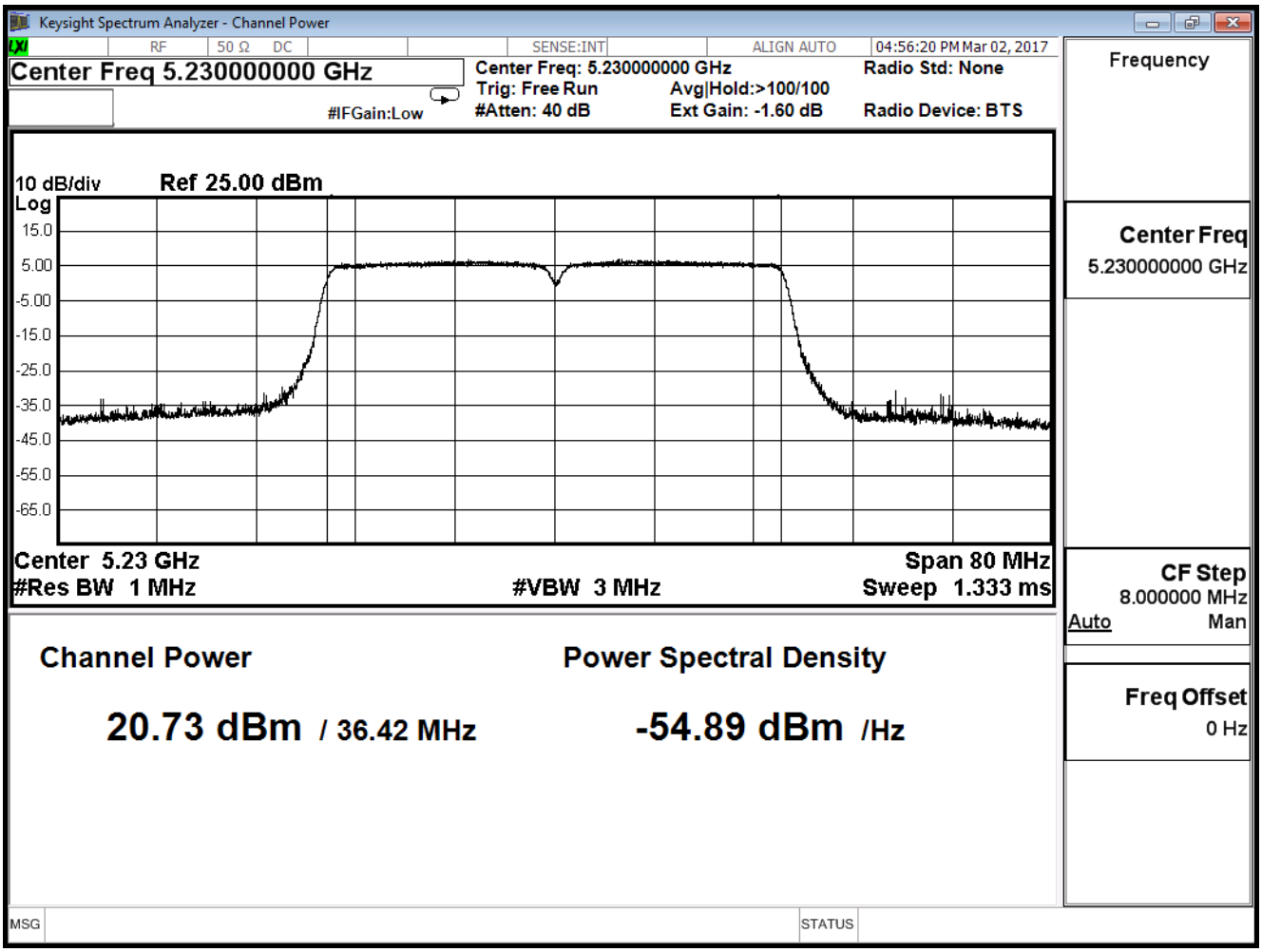
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	14.970	≤29.66
46	5230	20.690	≤29.66

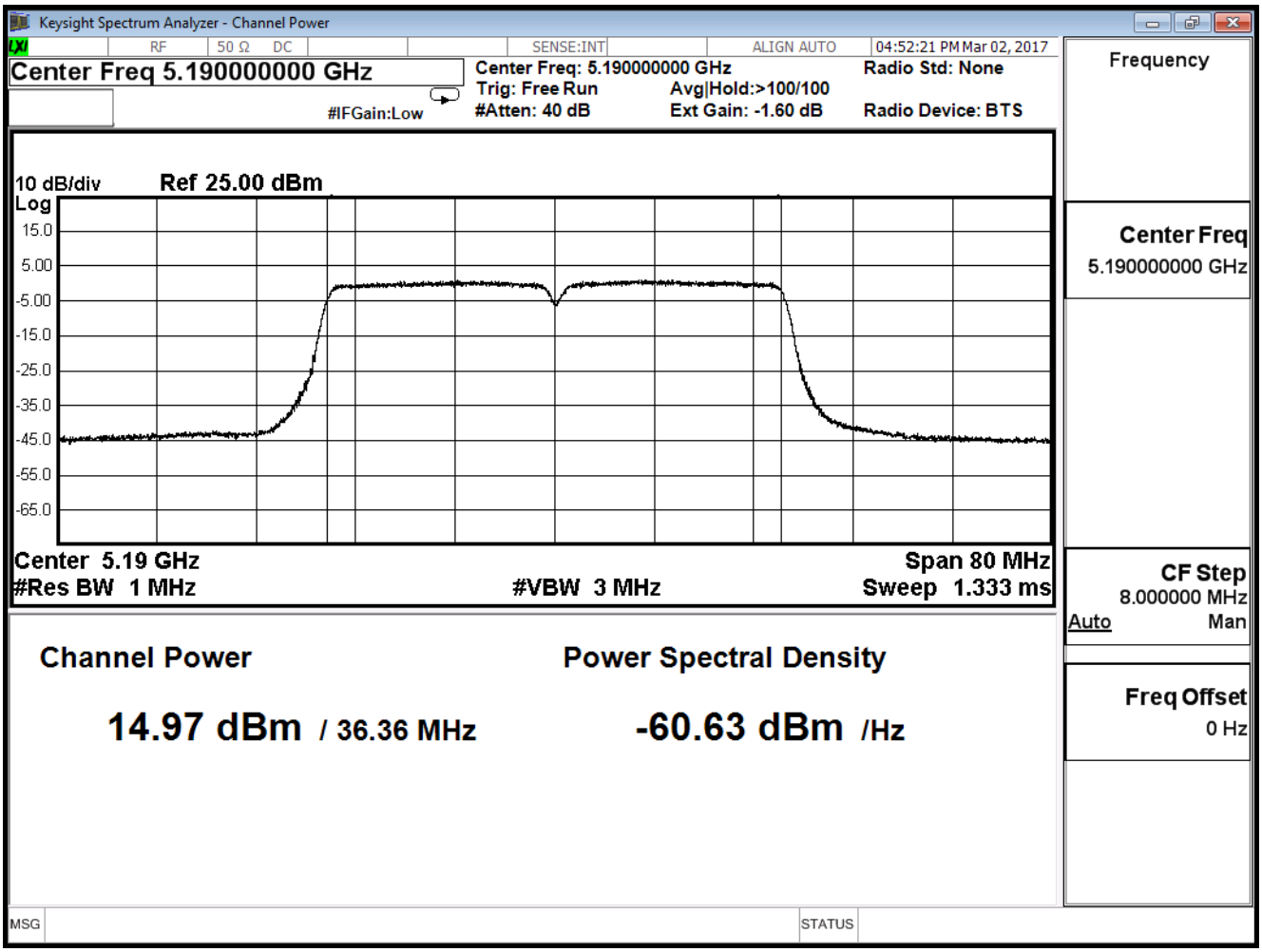
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
38	5190	14.970	--	--	--	--	--	--	--	≤29.66
46	5230	20.690	20.550	20.420	20.220	20.110	20.010	19.890	19.770	

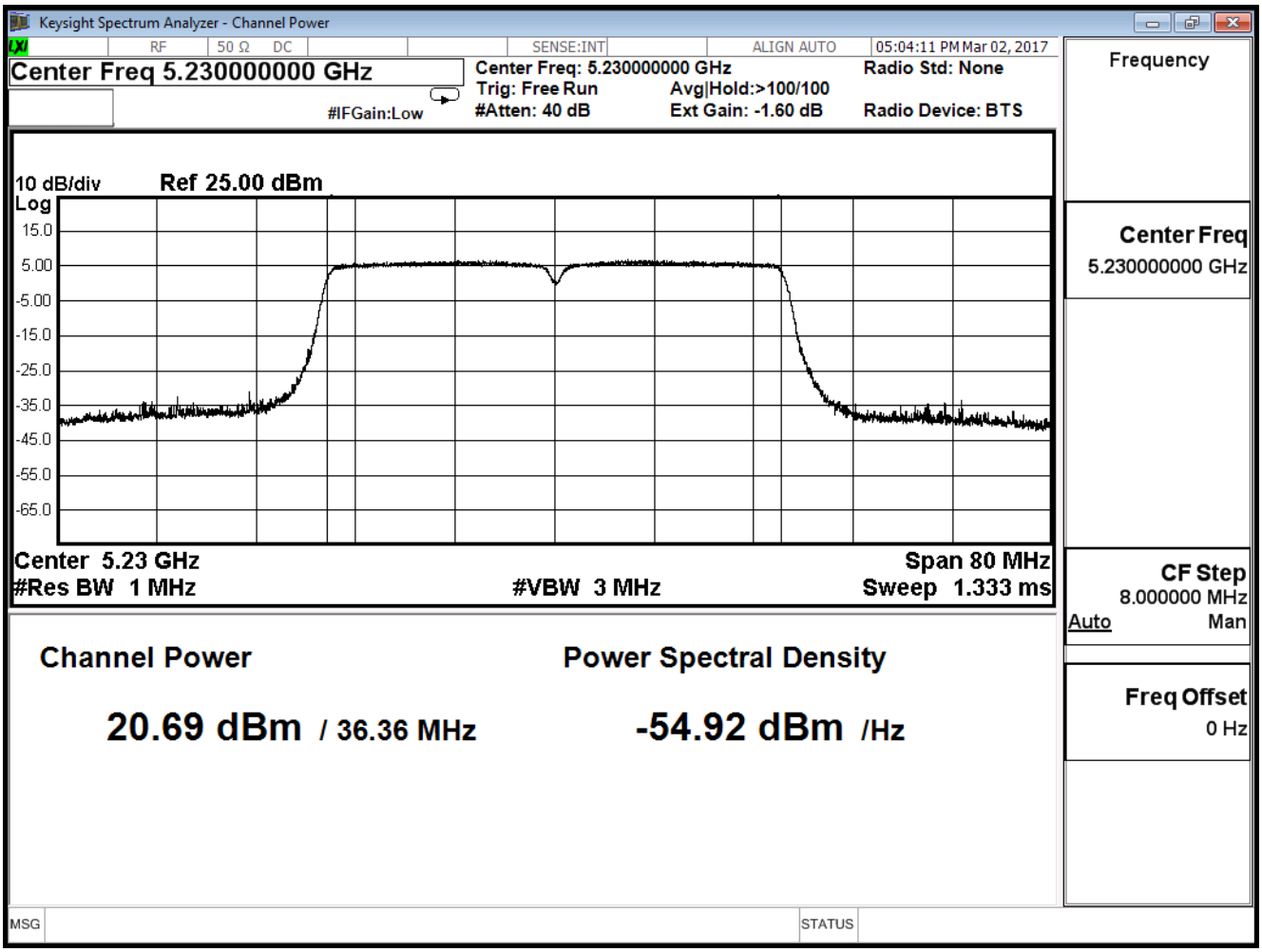
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	14.920	≤29.66
46	5230	20.670	≤29.66

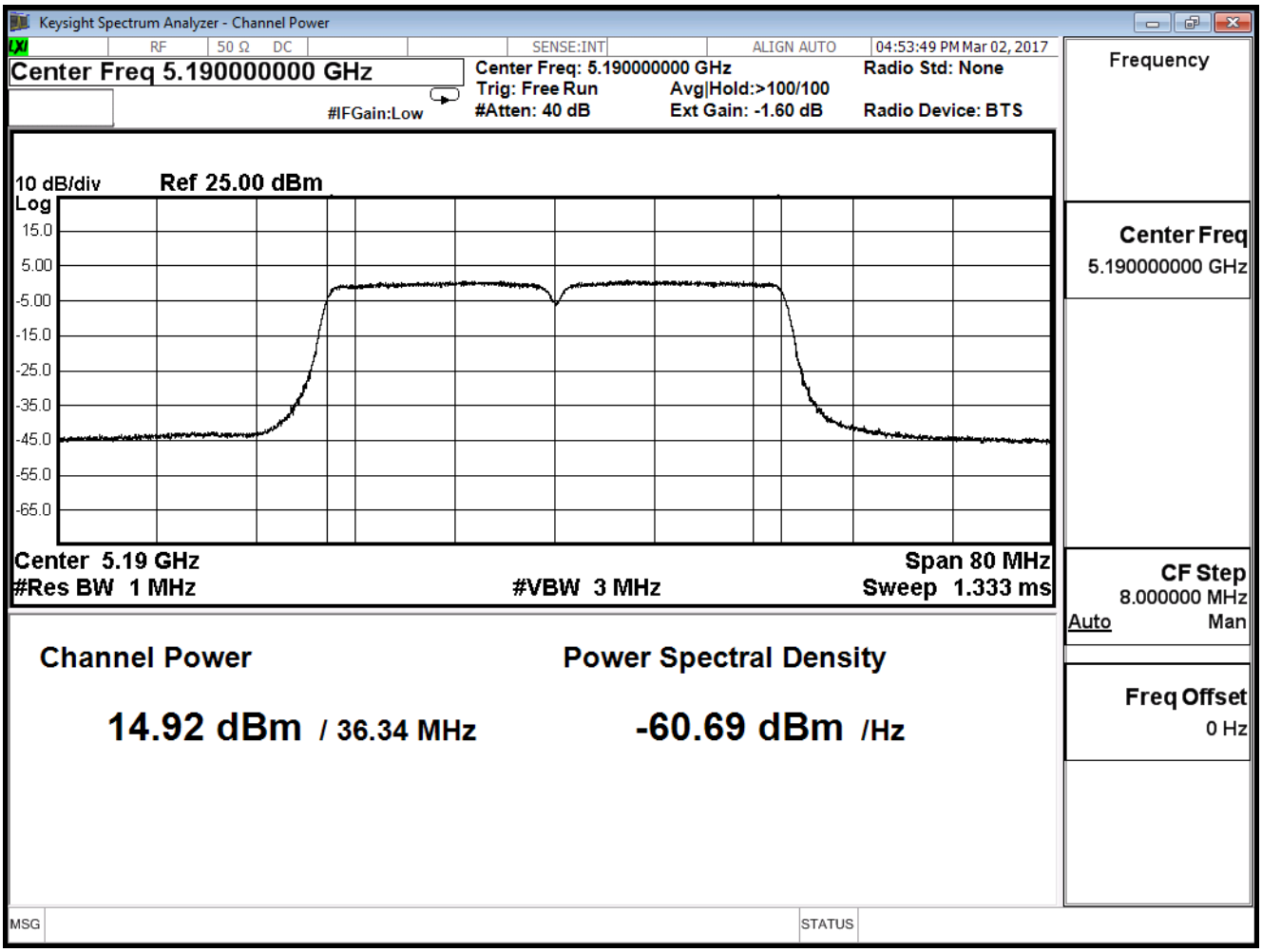
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
38	5190	14.920	--	--	--	--	--	--	--	≤29.66
46	5230	20.670	20.550	20.440	20.130	20.020	19.890	19.720	19.660	

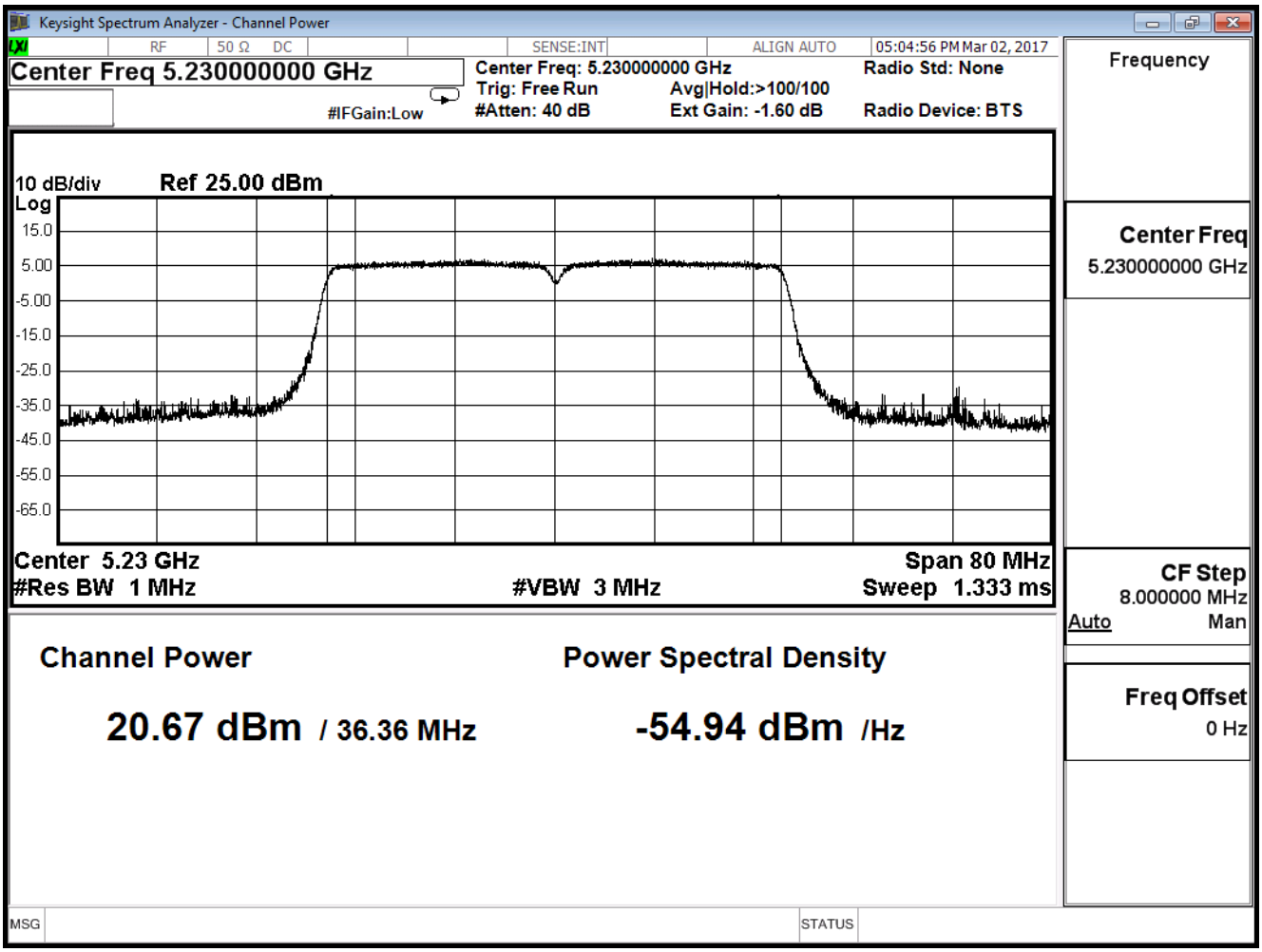
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	14.900	≤29.66
46	5230	20.660	≤29.66

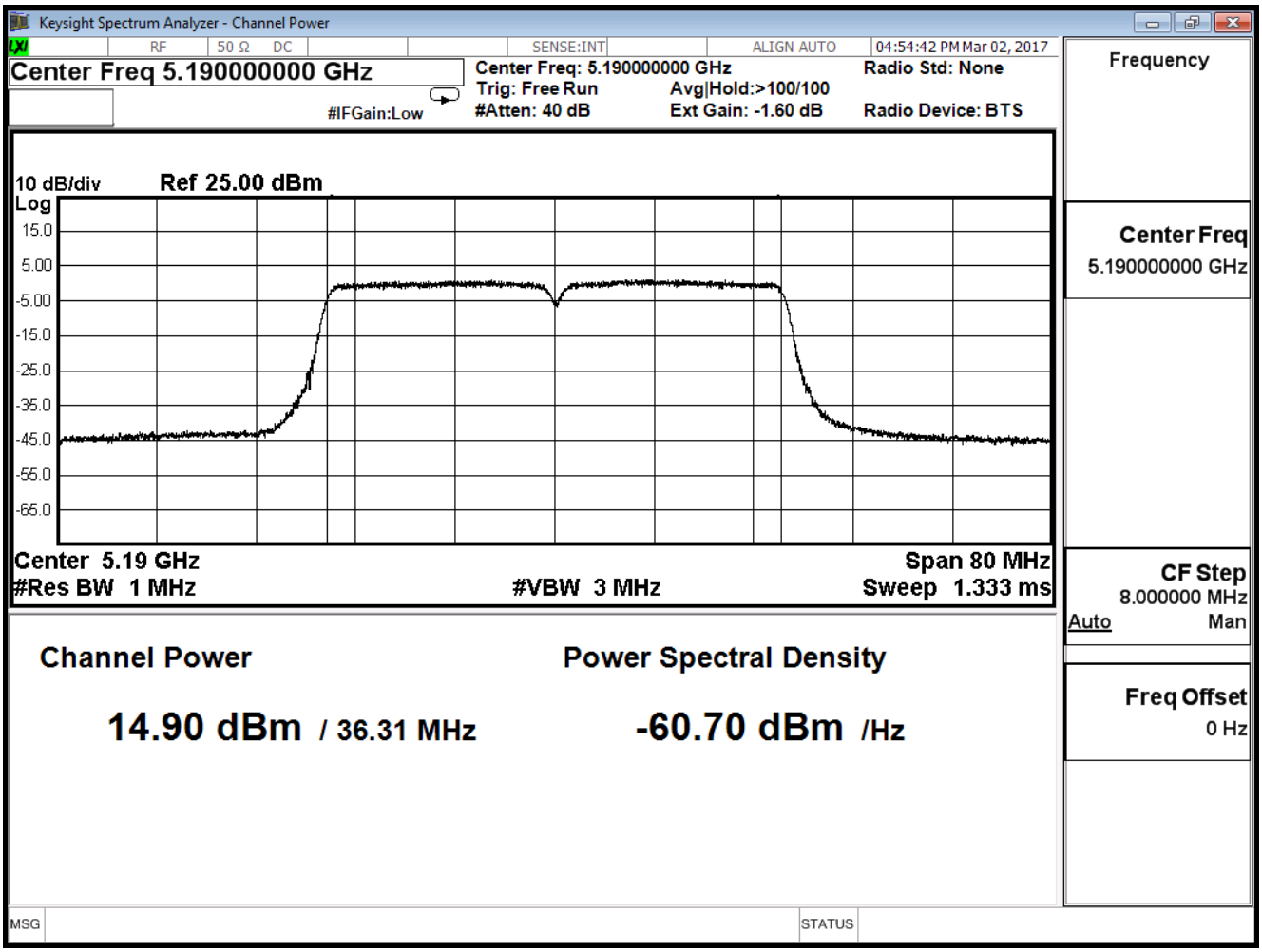
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit (dBm)
		0	1	2	3	4	5	6	7	
38	5190	14.900	--	--	--	--	--	--	--	≤29.66
46	5230	20.660	20.600	20.440	20.320	20.110	20.020	19.900	19.770	

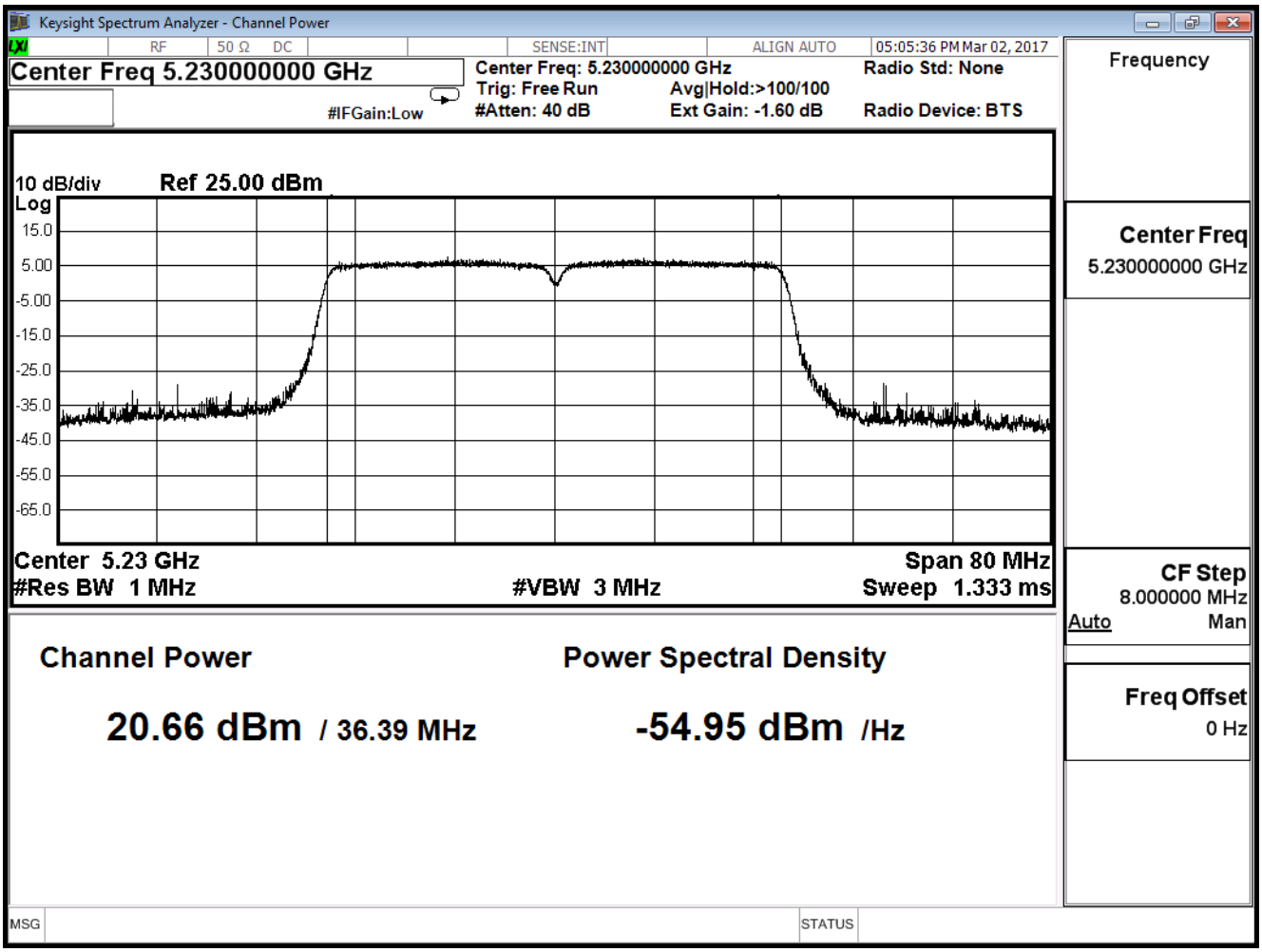
Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11n(40MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
38	5190	20.938	≤29.66
46	5230	26.708	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	15.070	≤29.66

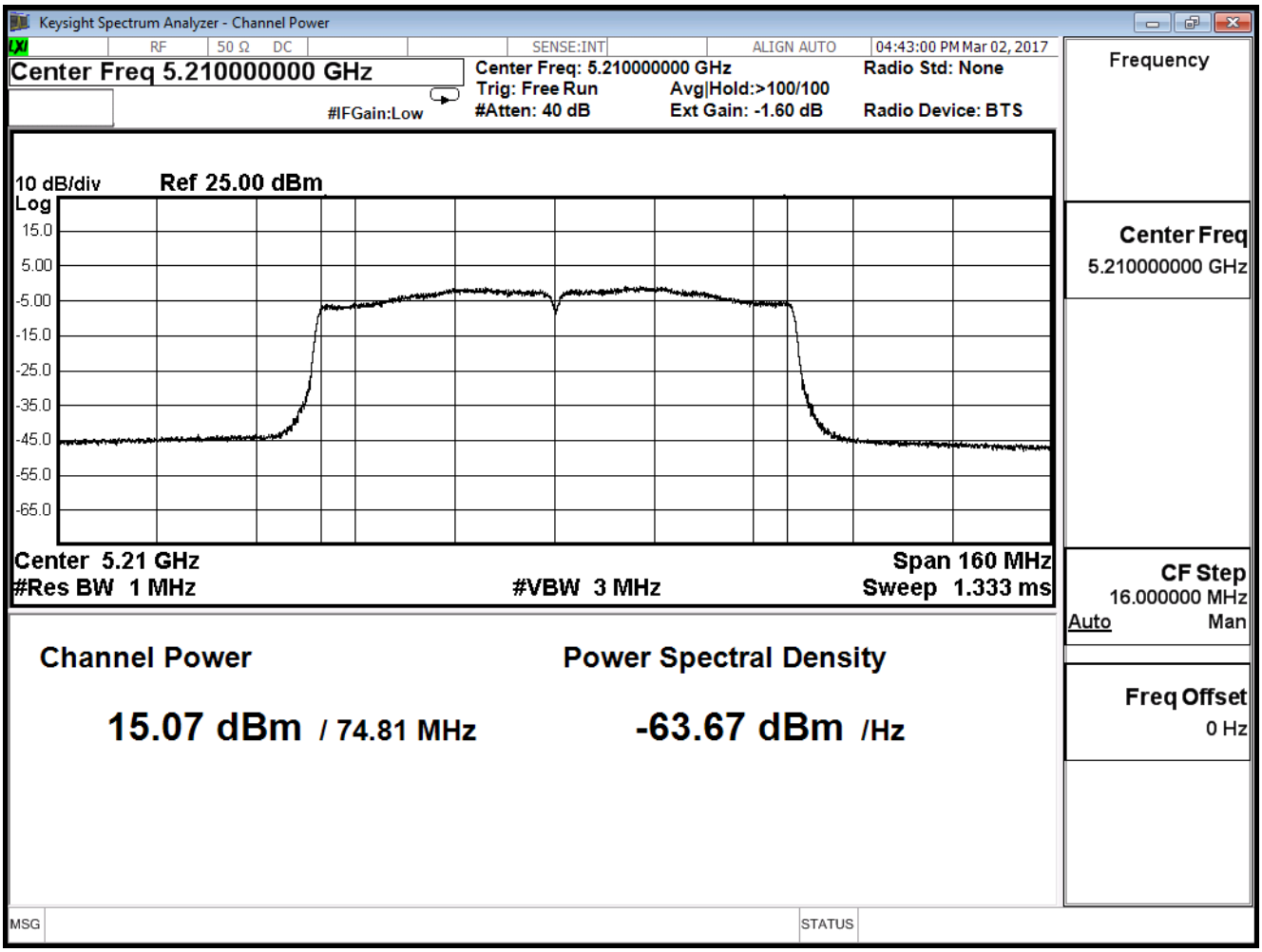
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)
		0	1	2	3	4	5	6	7	8	9	
42	5210	15.070	14.920	14.720	14.550	14.320	14.110	14.000	13.880	13.710	13.550	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	15.110	≤29.66

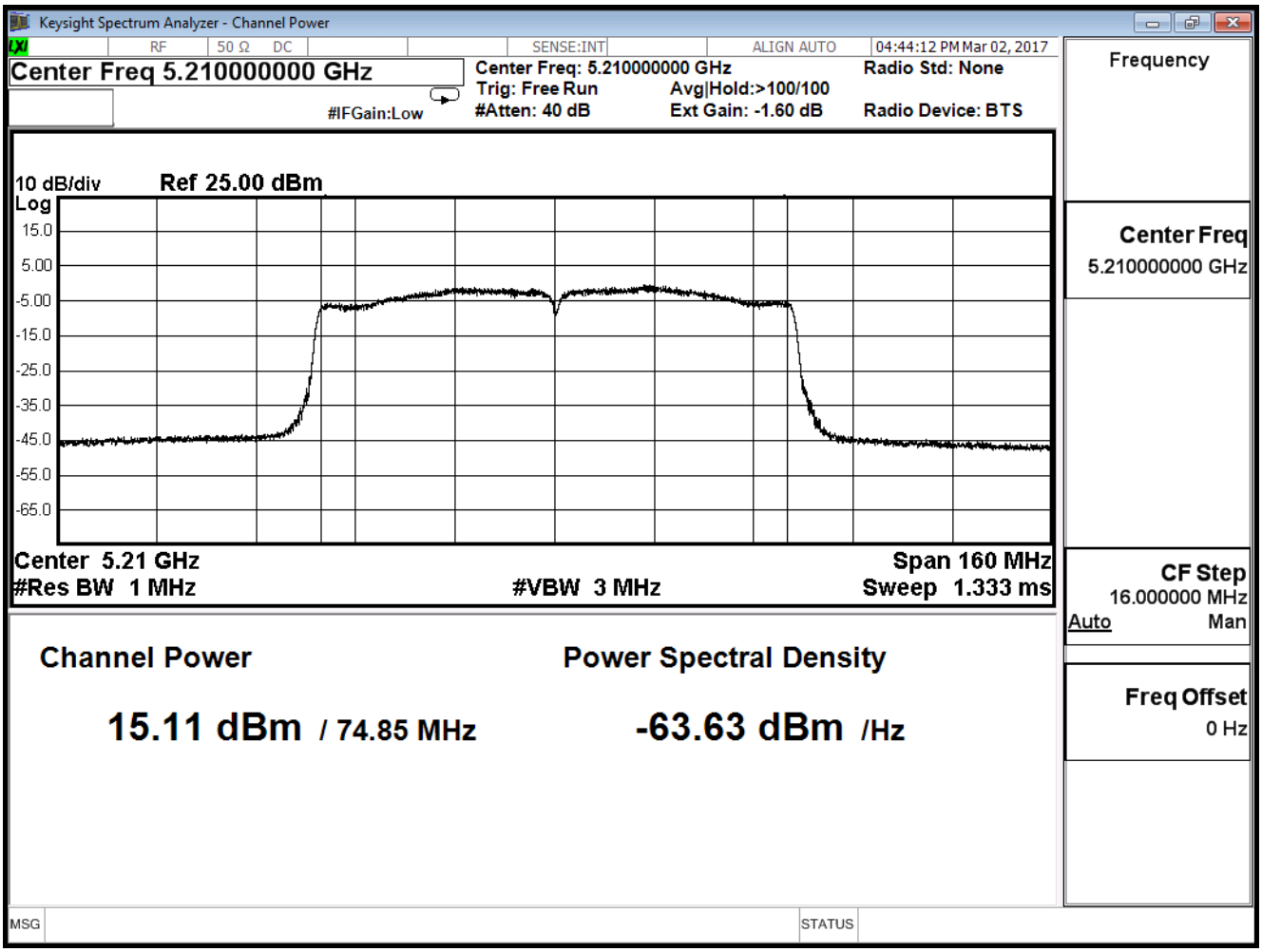
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)
		0	1	2	3	4	5	6	7	8	9	
42	5210	15.110	15.020	14.890	14.680	14.320	14.110	14.020	13.900	13.680	13.550	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	15.150	≤29.66

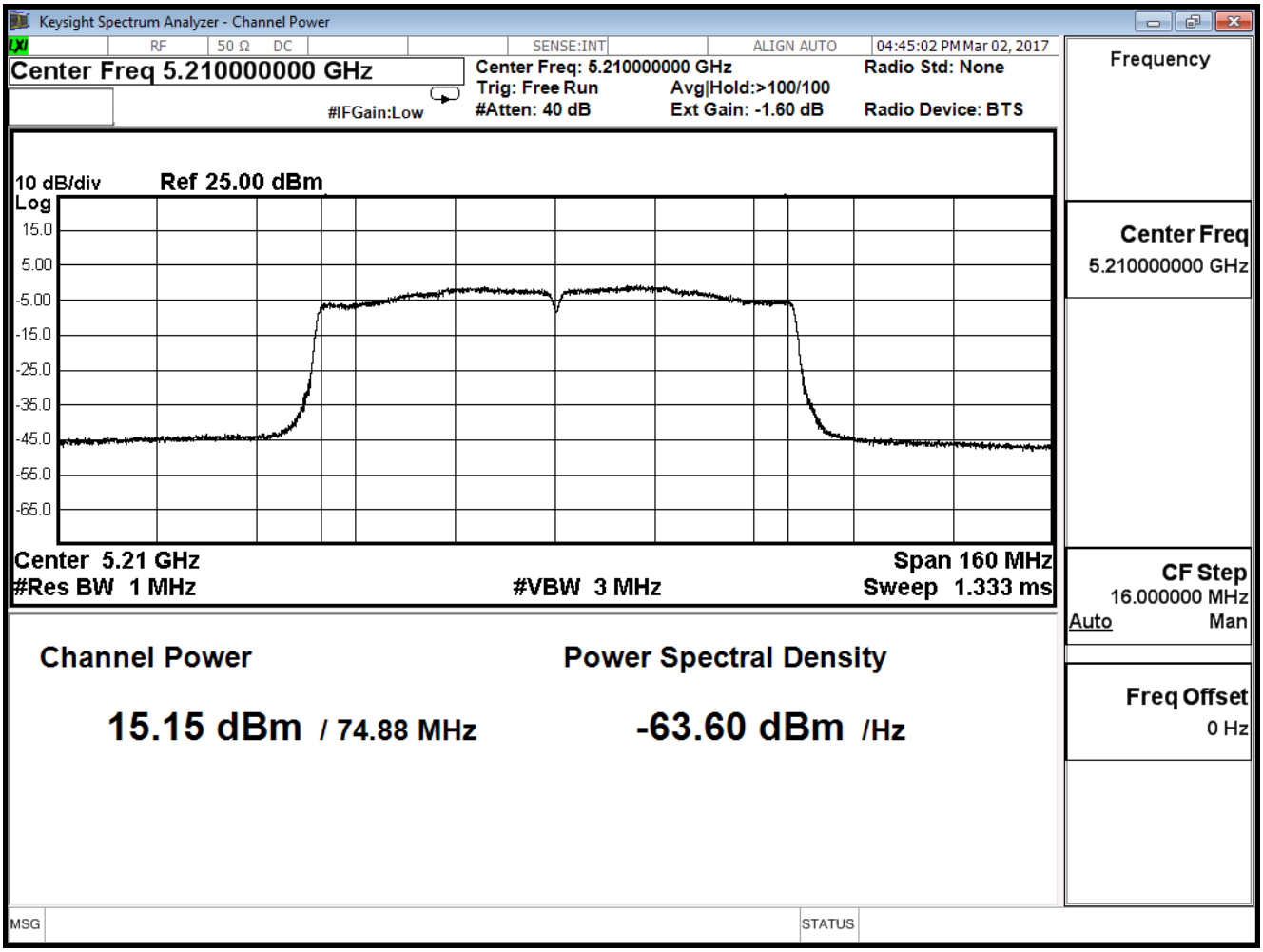
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)
		0	1	2	3	4	5	6	7	8	9	
42	5210	15.150	15.010	14.890	14.700	14.510	14.330	14.080	13.920	13.770	13.550	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz) (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	15.190	≤29.66

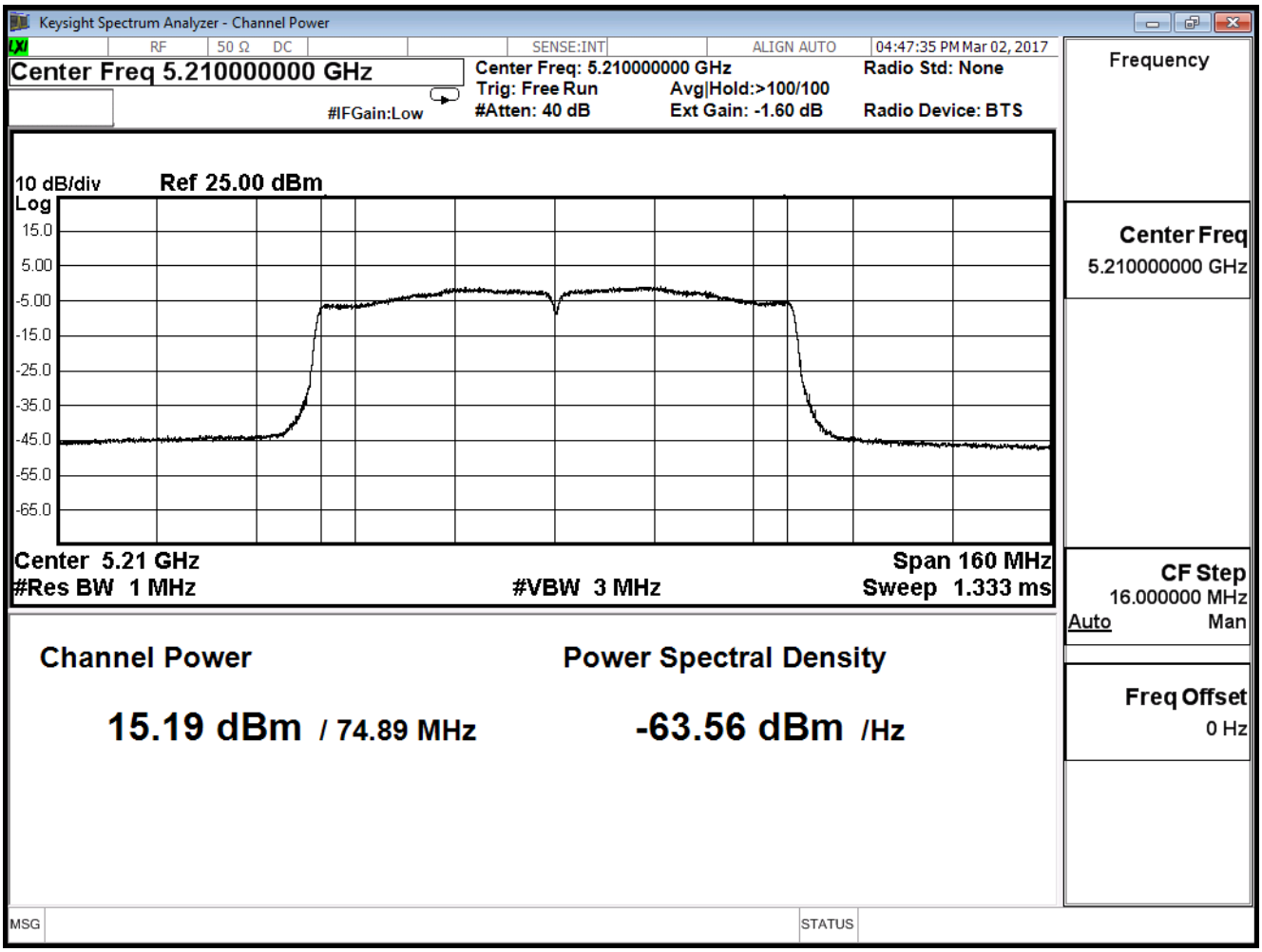
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit (dBm)
		0	1	2	3	4	5	6	7	8	9	
42	5210	15.190	15.000	14.900	14.770	14.580	14.320	14.180	14.000	13.920	13.760	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Peak transmit Power - Channel 42



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
42	5210	21.151	≤29.66

Directional gain=10log(ANT N)+Gain=4.77+1.57=6.34

Limit =30dBm-(6.34dBi-6dBi)=29.66dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/01	Test Site	SR10-H

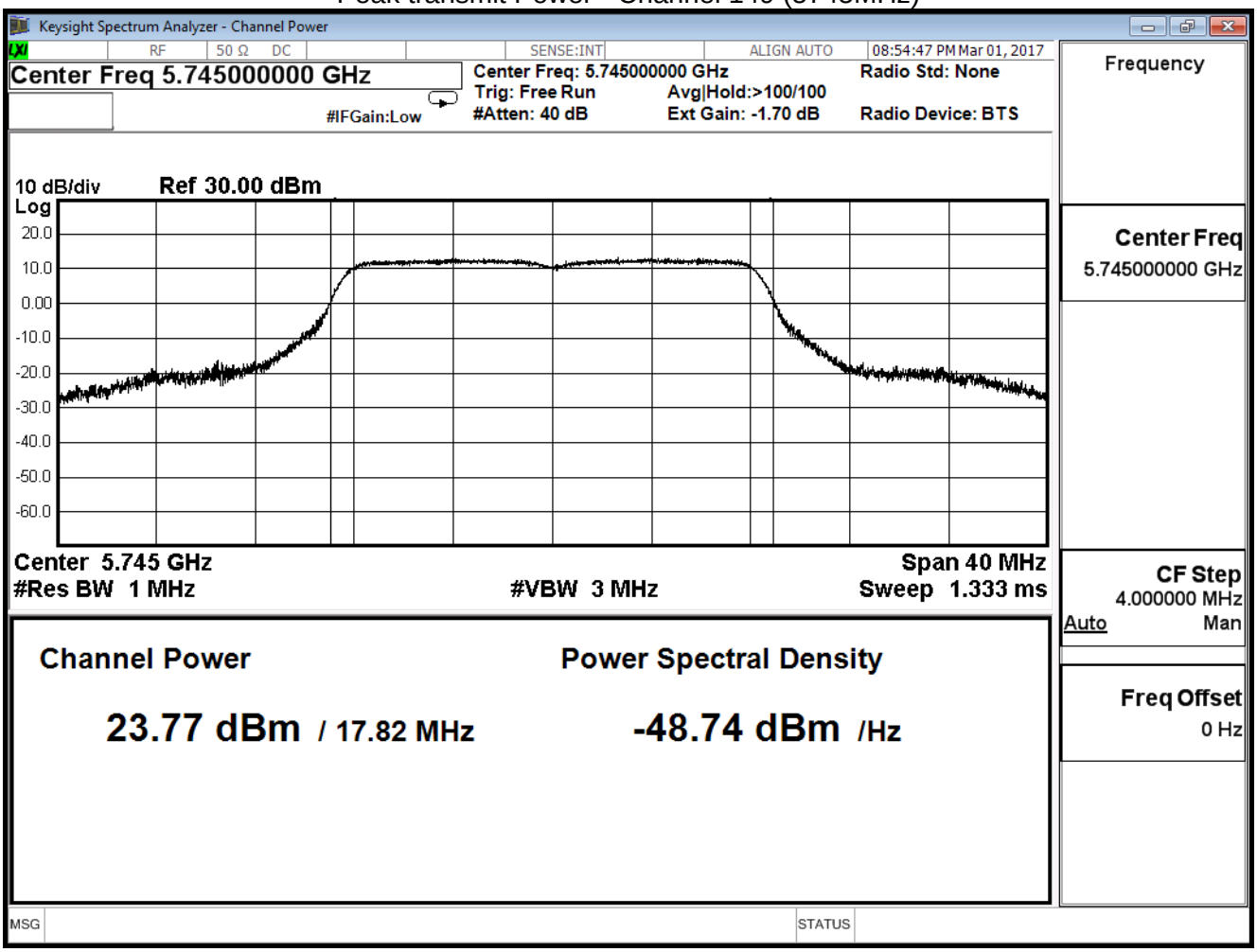
IEEE 802.11a (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.770	≤30
157	5785	23.910	≤30
165	5825	23.970	≤30

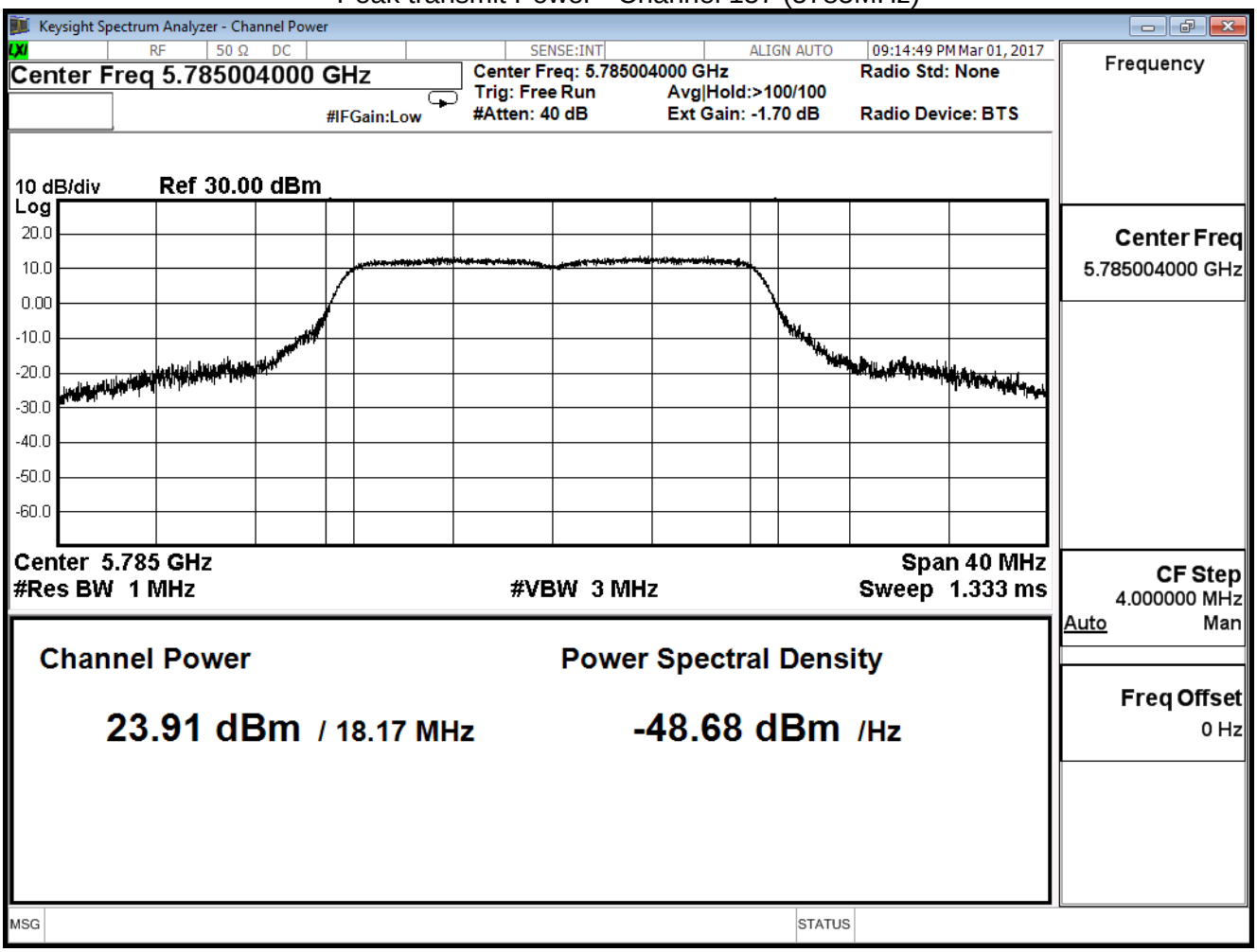
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.770	--	--	--	--	--	--	≤30dBm
157	5785	23.910	23.880	23.800	23.7630	23.720	23.680	23.620	
165	5825	23.970	--	--	--	--	--	--	

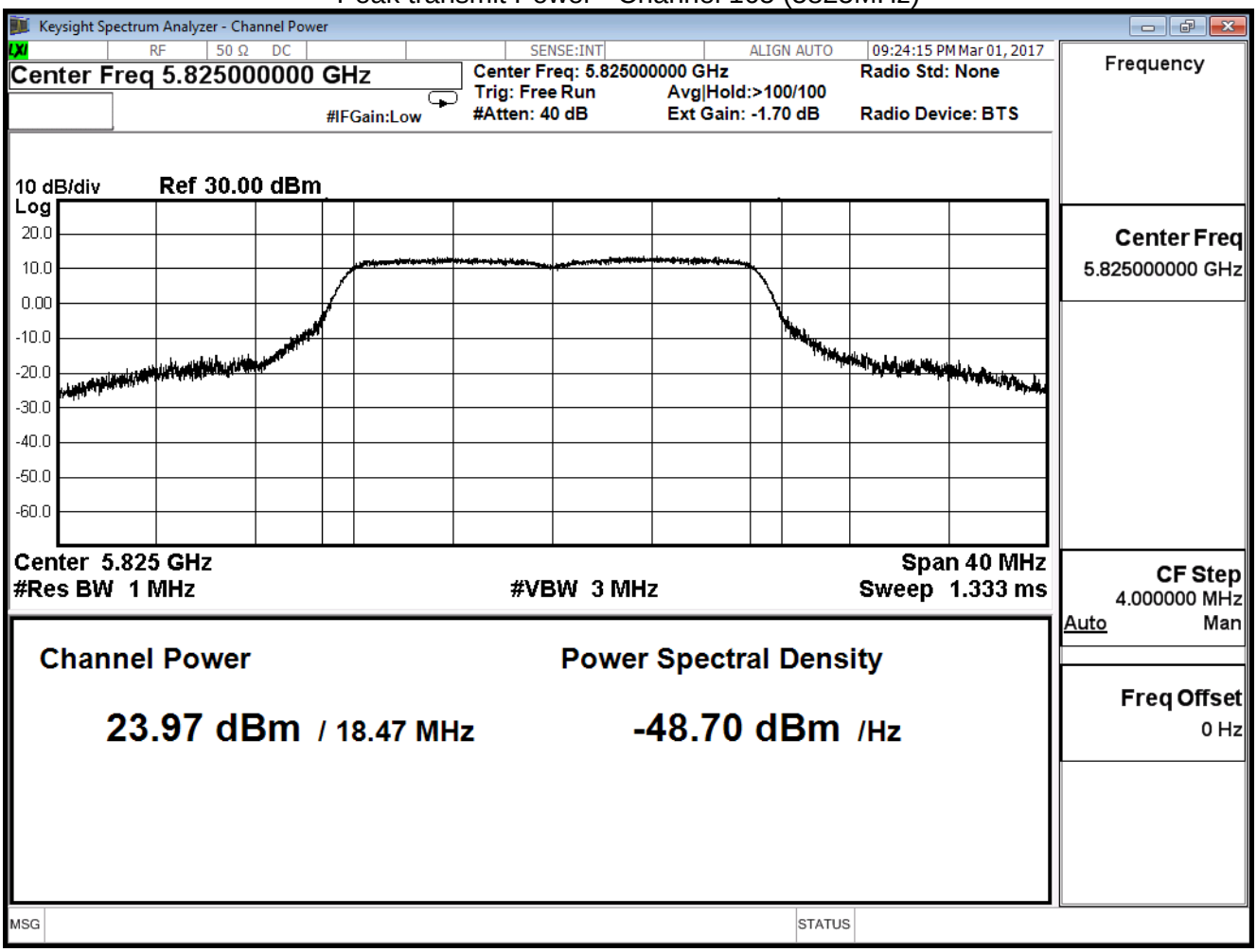
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/01	Test Site	SR10-H

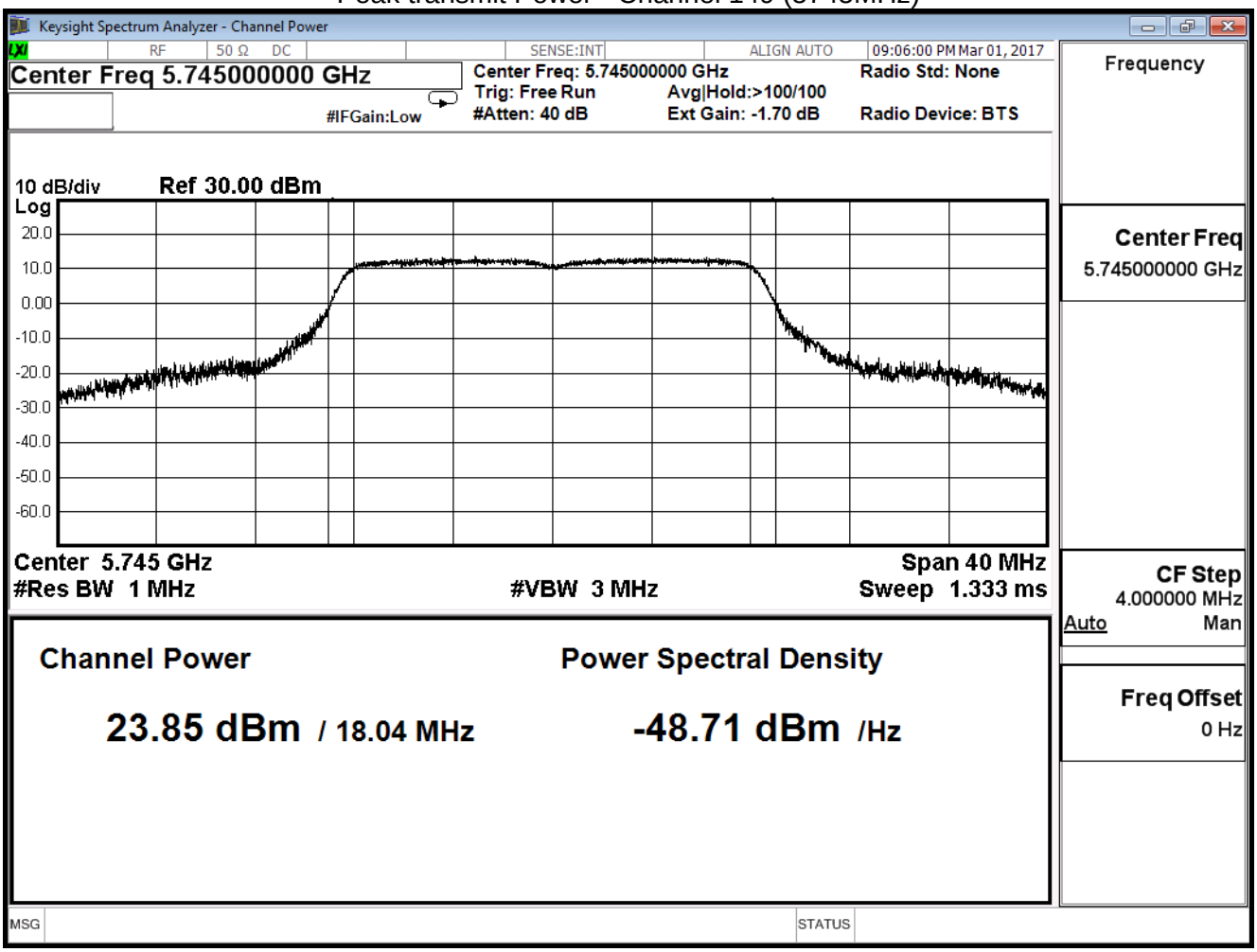
IEEE 802.11a (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.850	≤30
157	5785	23.880	≤30
165	5825	23.980	≤30

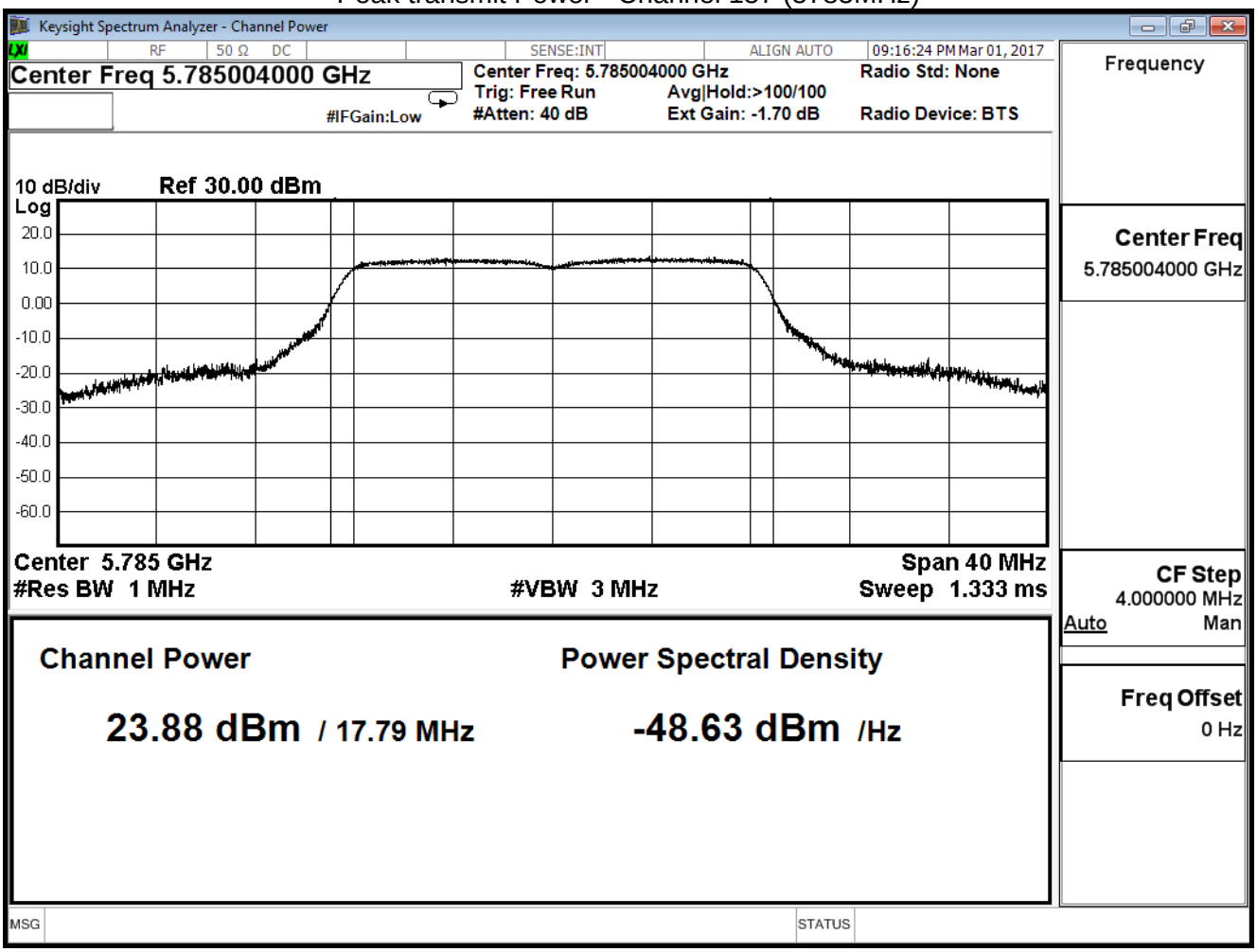
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.850	--	--	--	--	--	--	≤30dBm
157	5785	23.880	23.820	23.800	22.770	22.720	22.680	22.550	
165	5825	23.980	--	--	--	--	--	--	

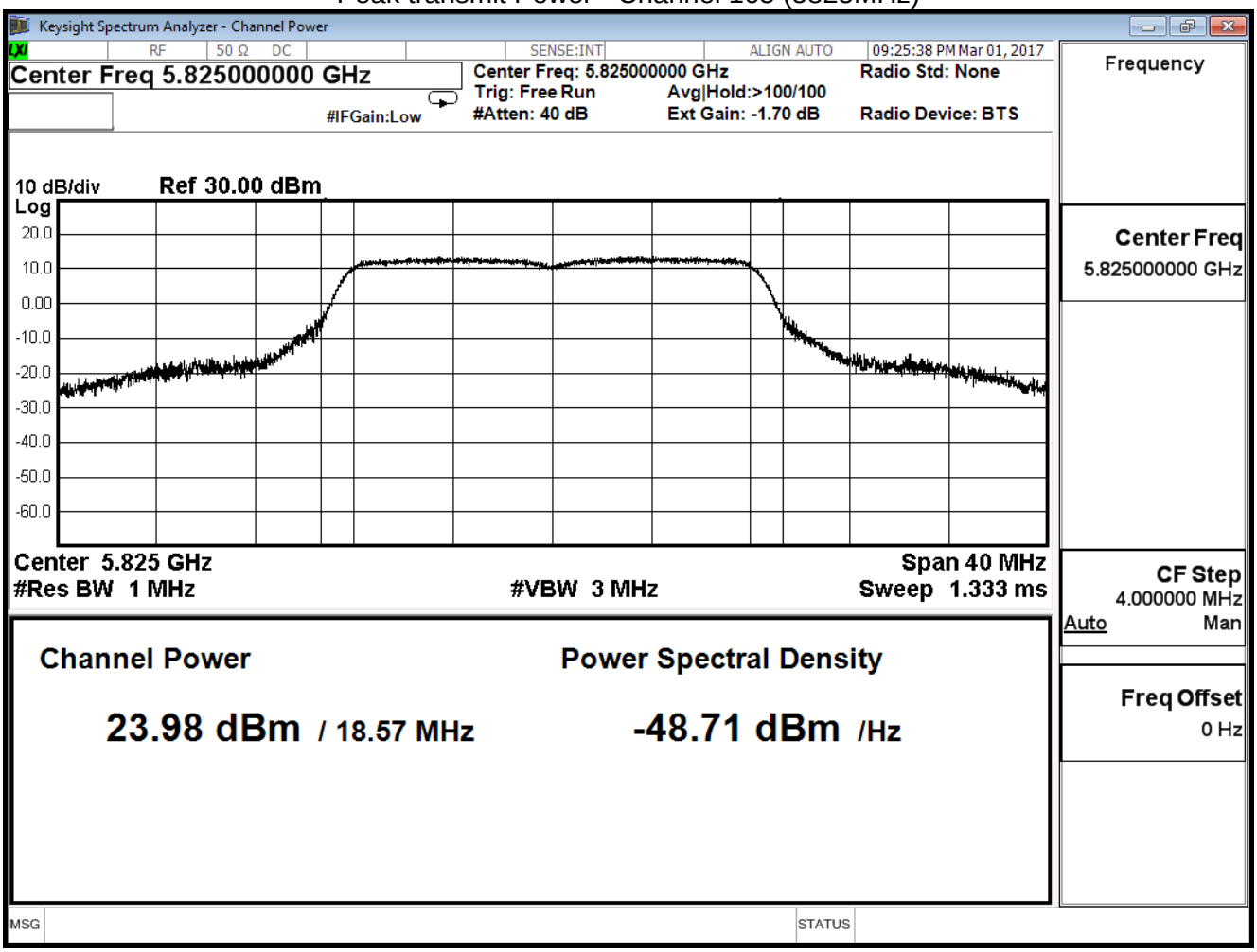
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/01	Test Site	SR10-H

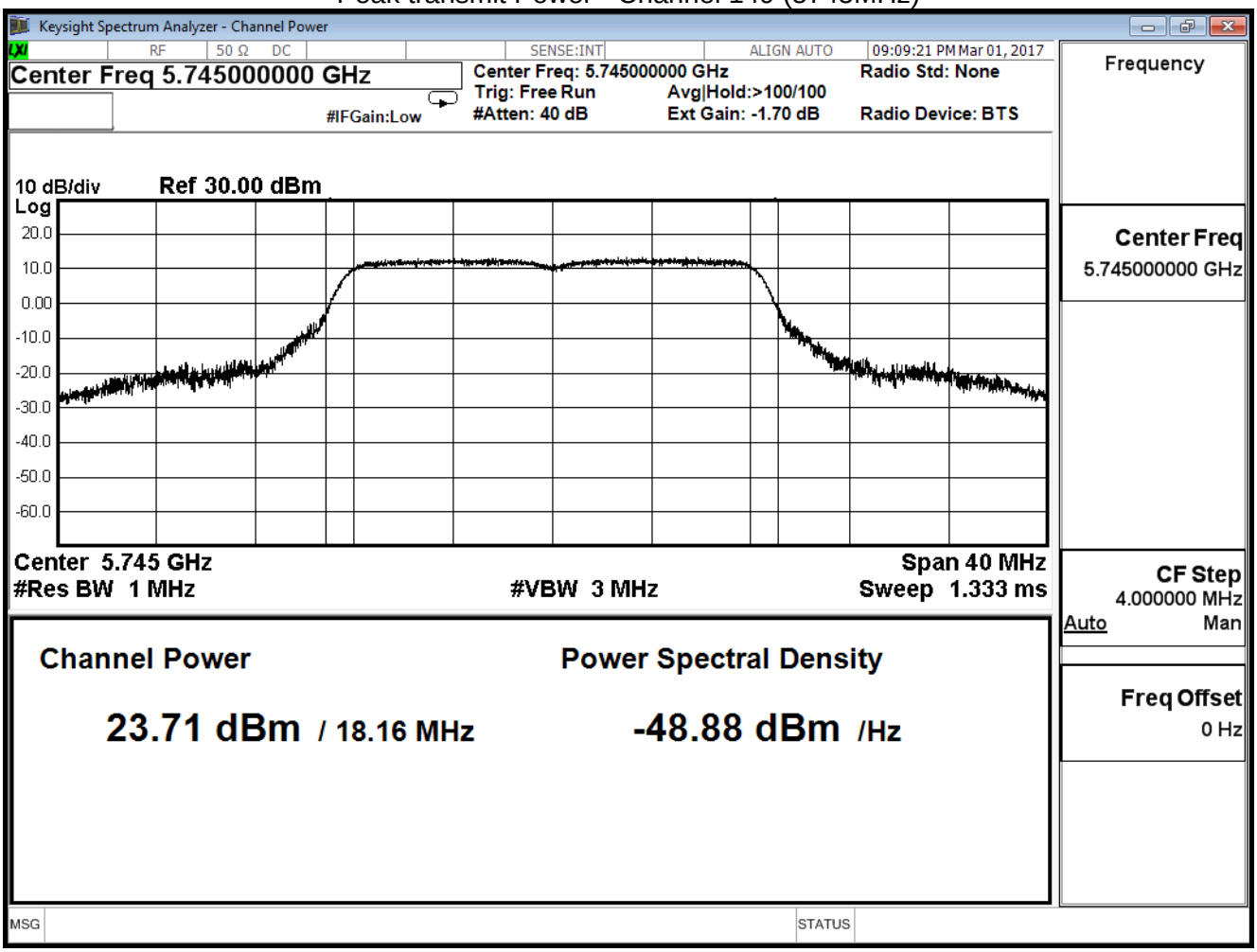
IEEE 802.11a (ANT2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.710	≤30
157	5785	23.860	≤30
165	5825	23.910	≤30

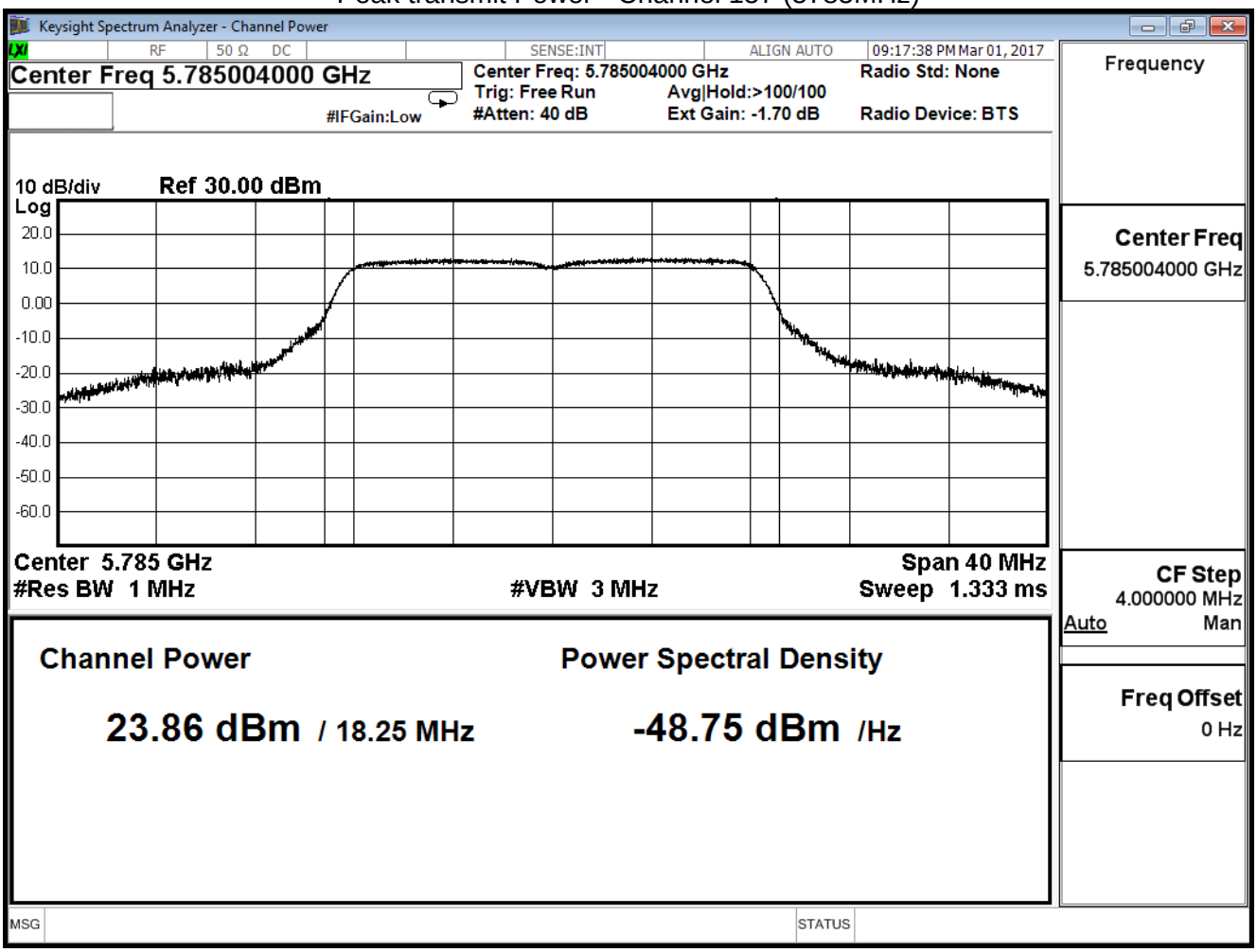
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.710	--	--	--	--	--	--	≤30dBm
157	5785	23.860	23.820	23.780	23.720	23.680	23.620	23.550	
165	5825	23.910	--	--	--	--	--	--	

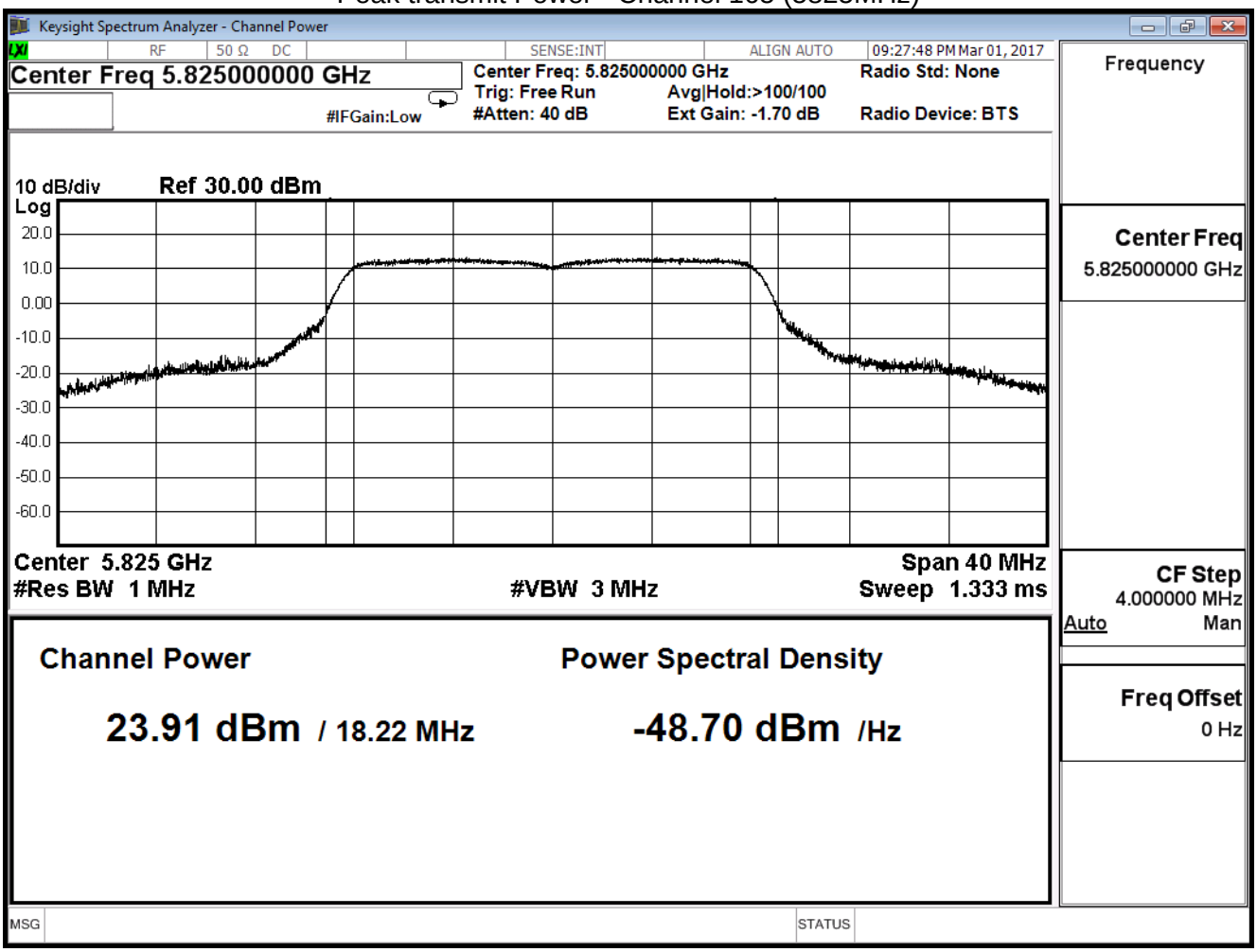
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/01	Test Site	SR10-H

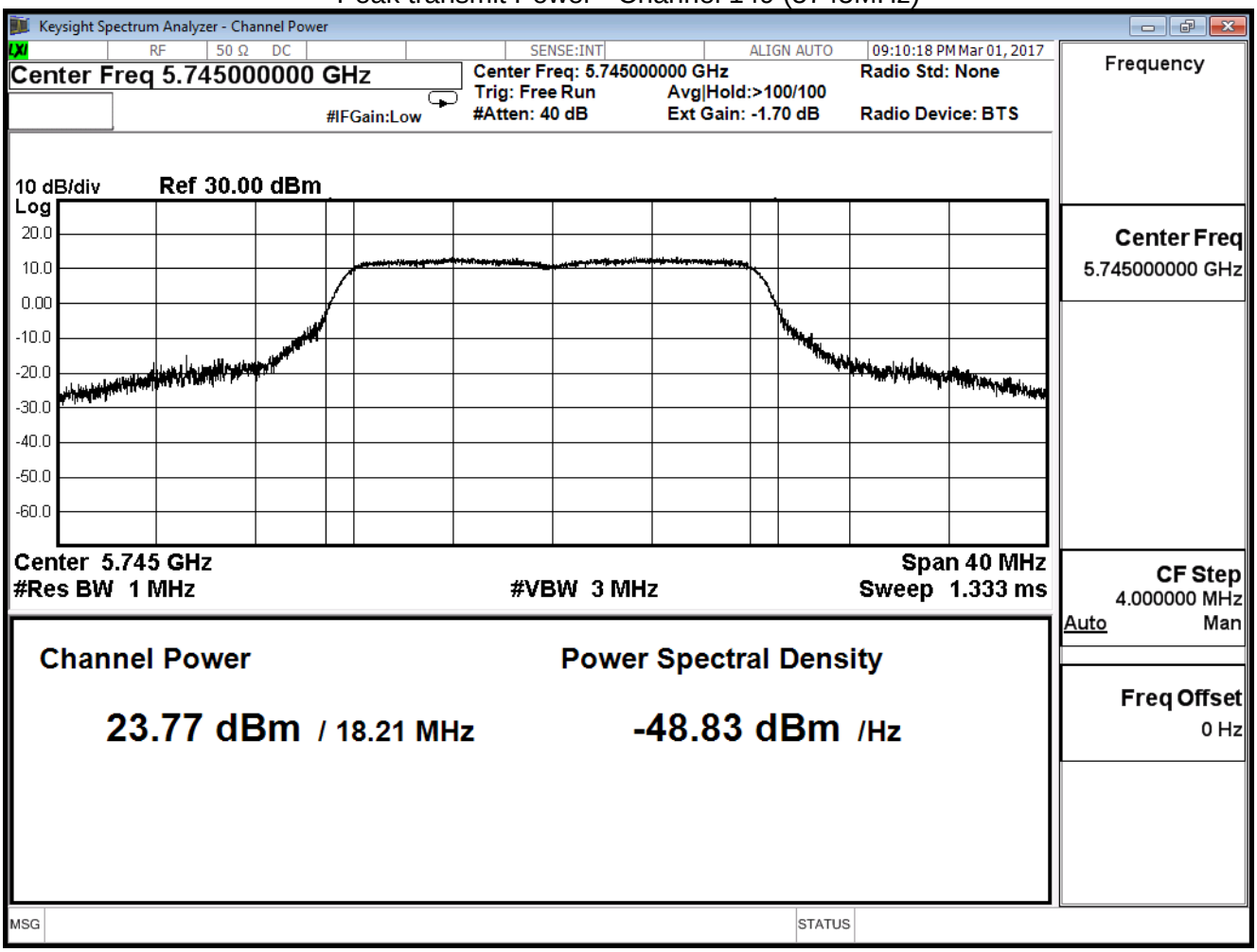
IEEE 802.11a (ANT3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.770	≤30
157	5785	23.810	≤30
165	5825	23.970	≤30

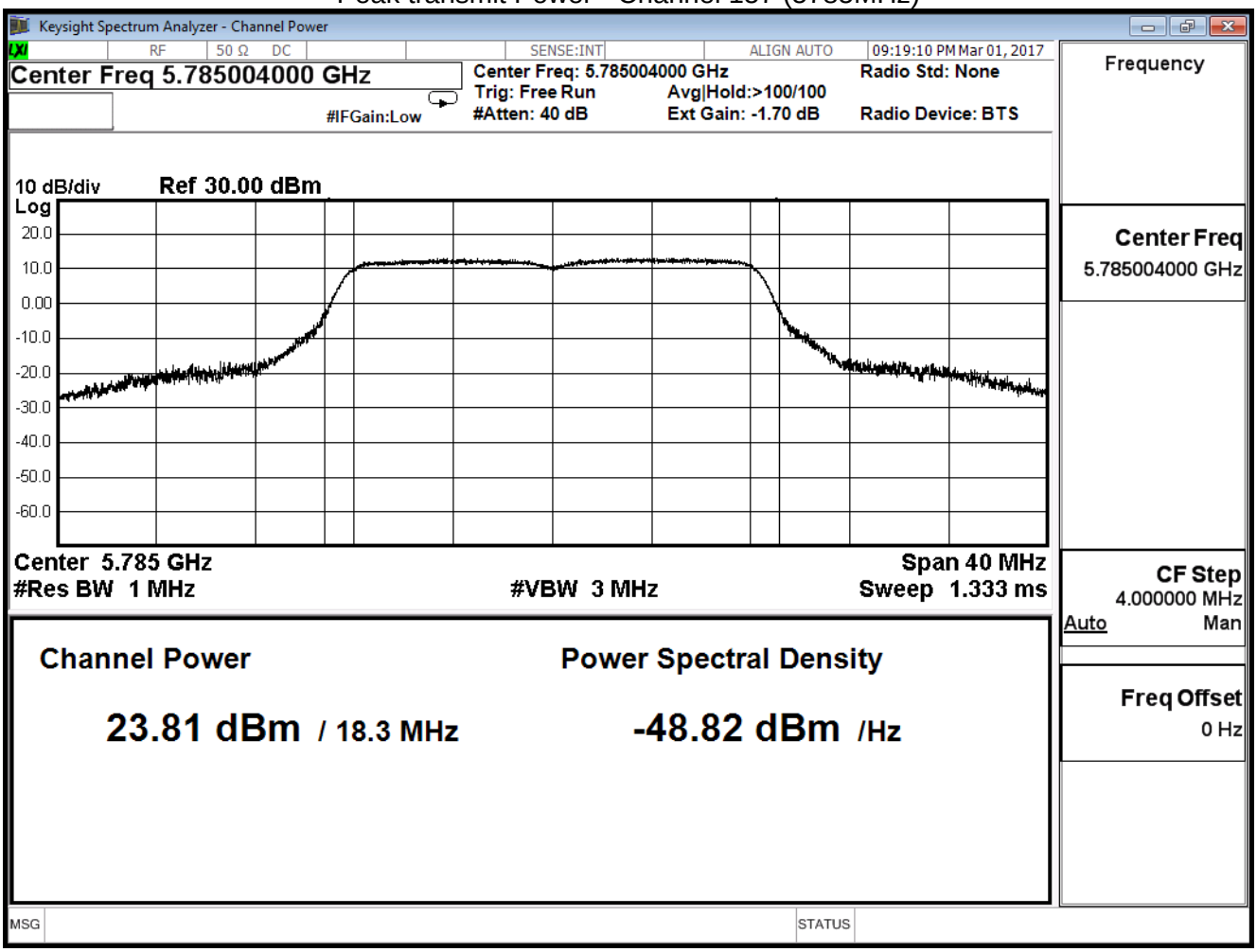
The worst emission of data rate is 6 Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	23.770	--	--	--	--	--	--	≤30dBm
157	5785	23.810	23.770	23.750	23.700	23.660	23.600	23.540	
165	5825	23.970	--	--	--	--	--	--	

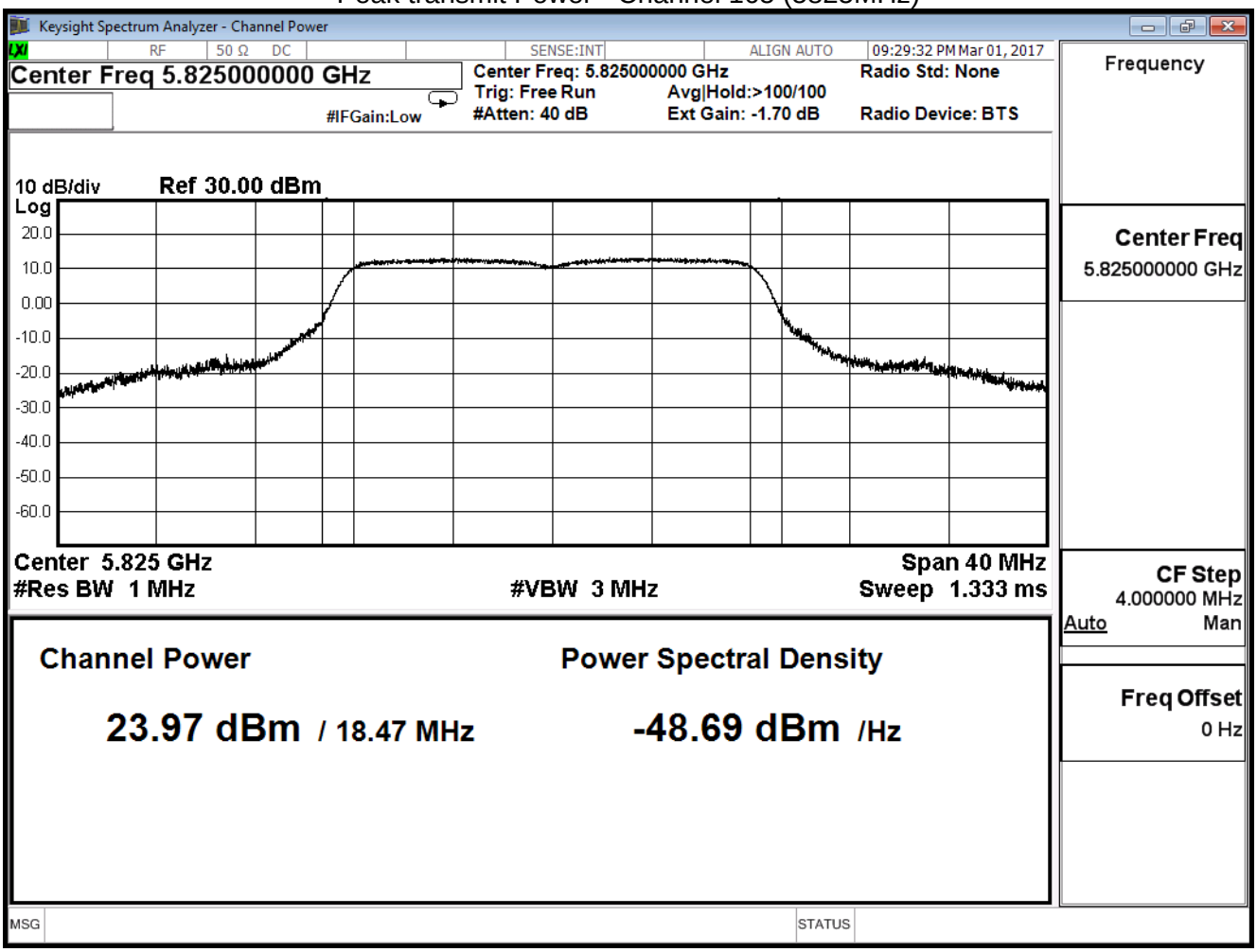
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/01	Test Site	SR10-H

IEEE 802.11a (ANT +1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	29.796	≤30
157	5785	29.886	≤30
165	5825	29.978	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

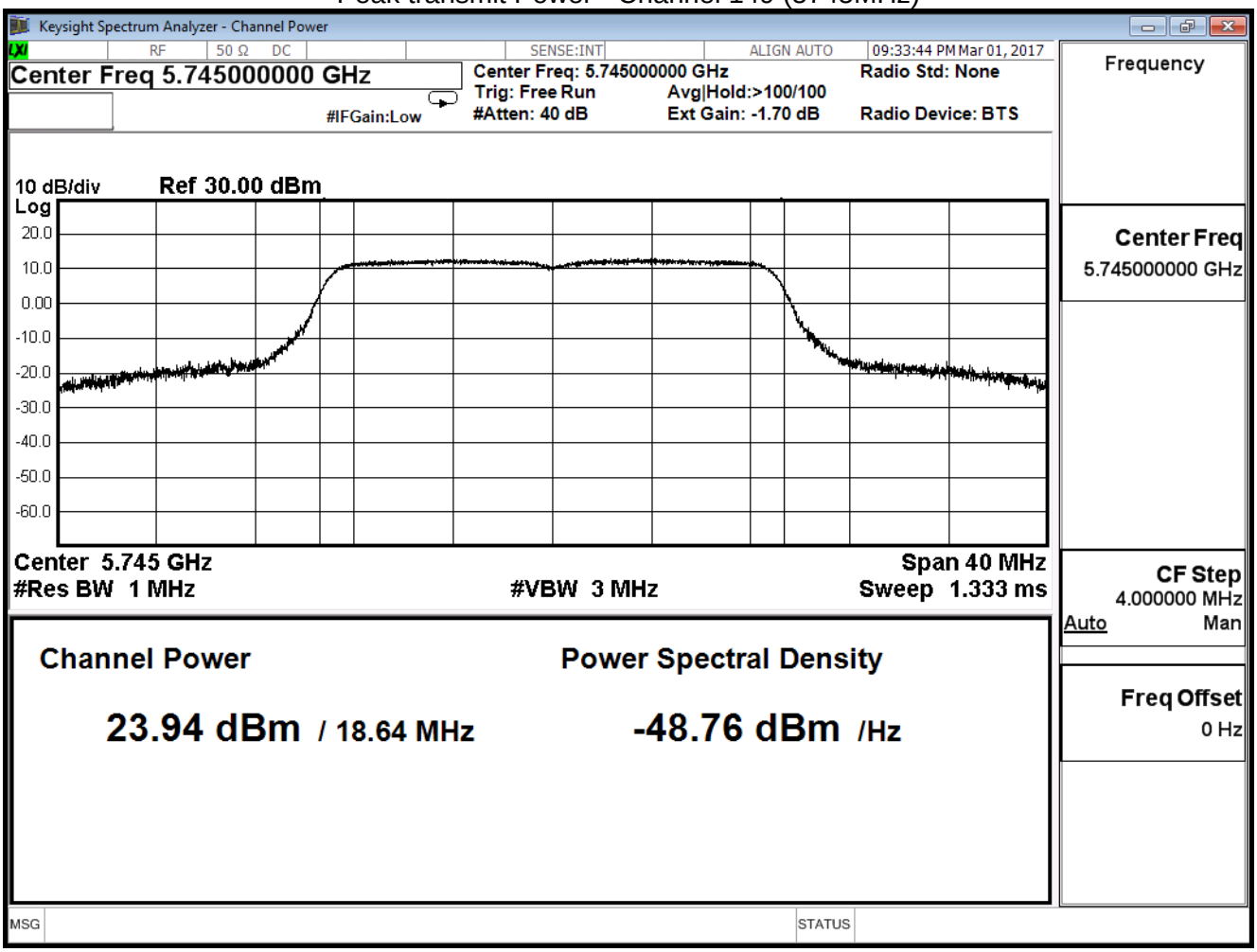
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.940	≤30
157	5785	23.900	≤30
165	5825	23.900	≤30

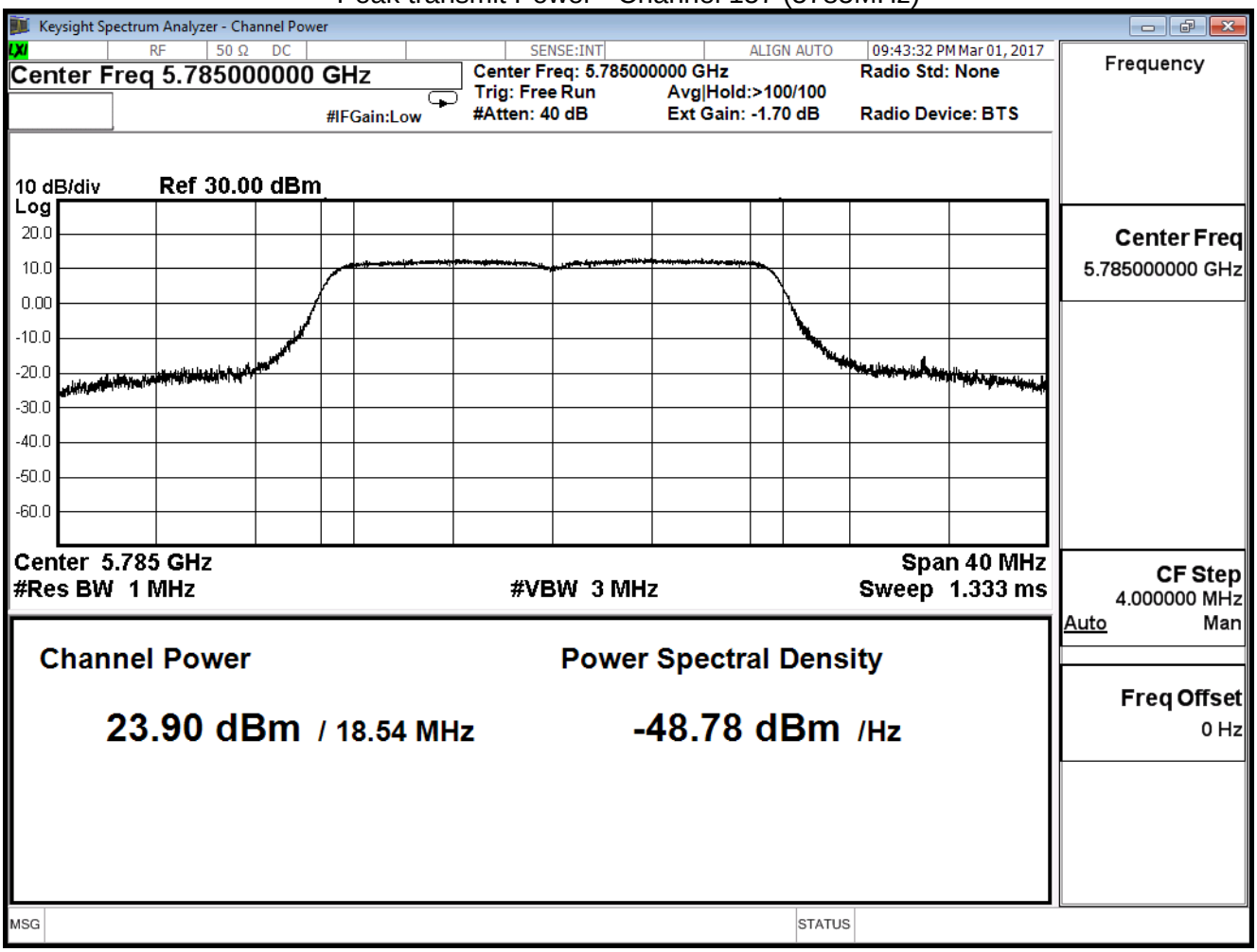
The worst emission of data rate is MCS 24

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
149	5745	23.940	--	--	--	--	--	--	--	≤30dBm
157	5785	23.900	23.860	23.800	23.610	23.500	23.320	23.100	23.000	
165	5825	23.900	--	--	--	--	--	--	--	

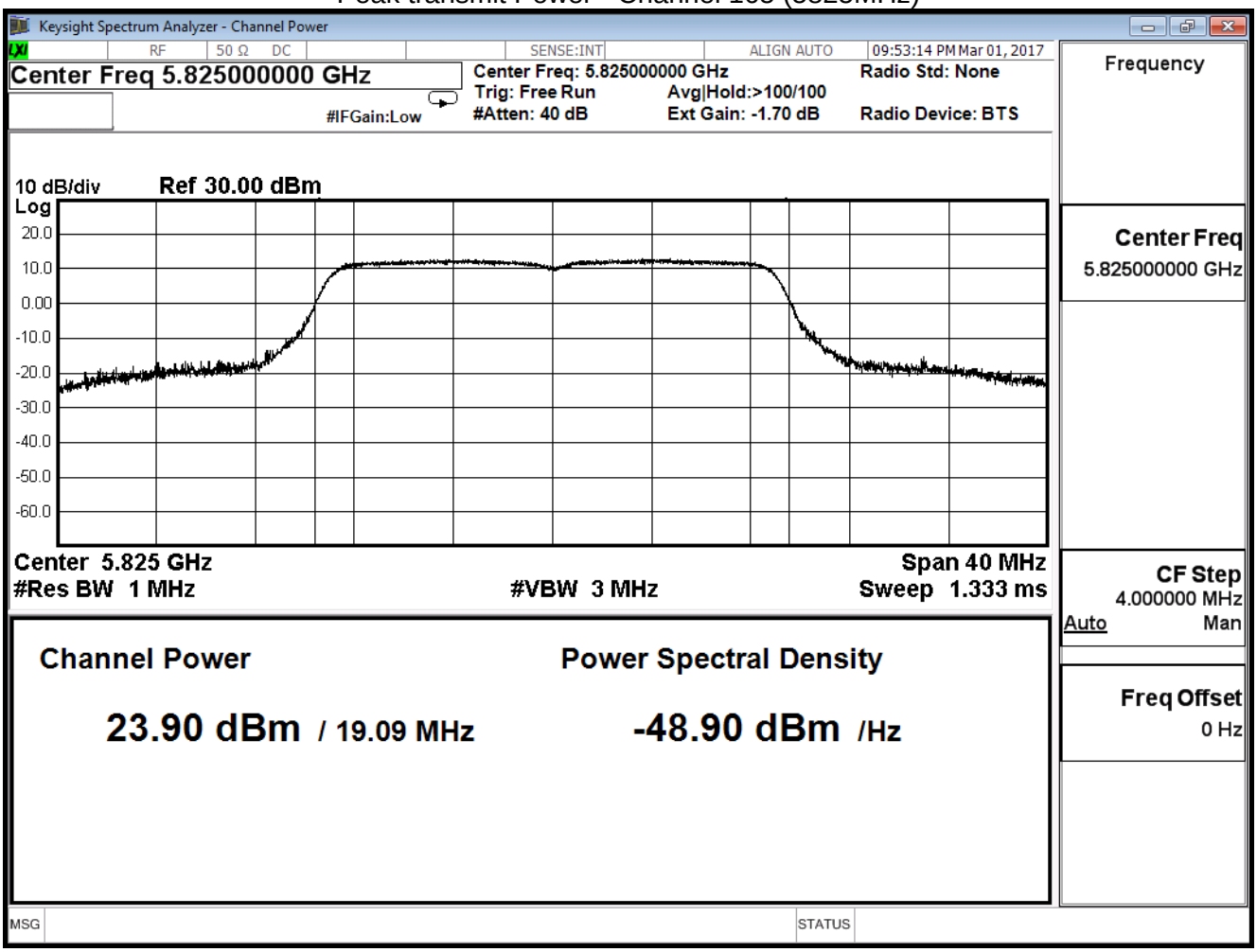
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

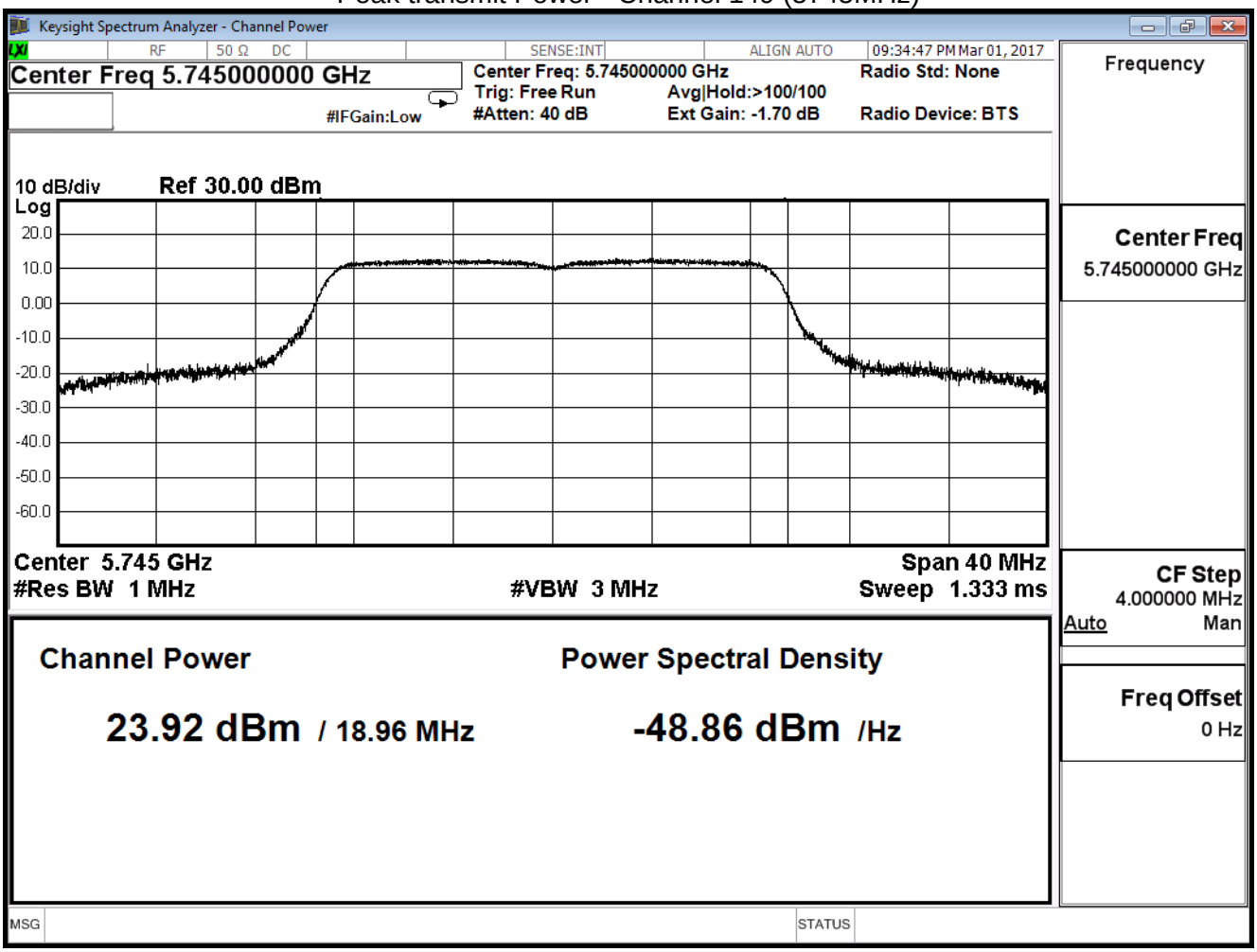
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.920	≤30
157	5785	23.990	≤30
165	5825	23.960	≤30

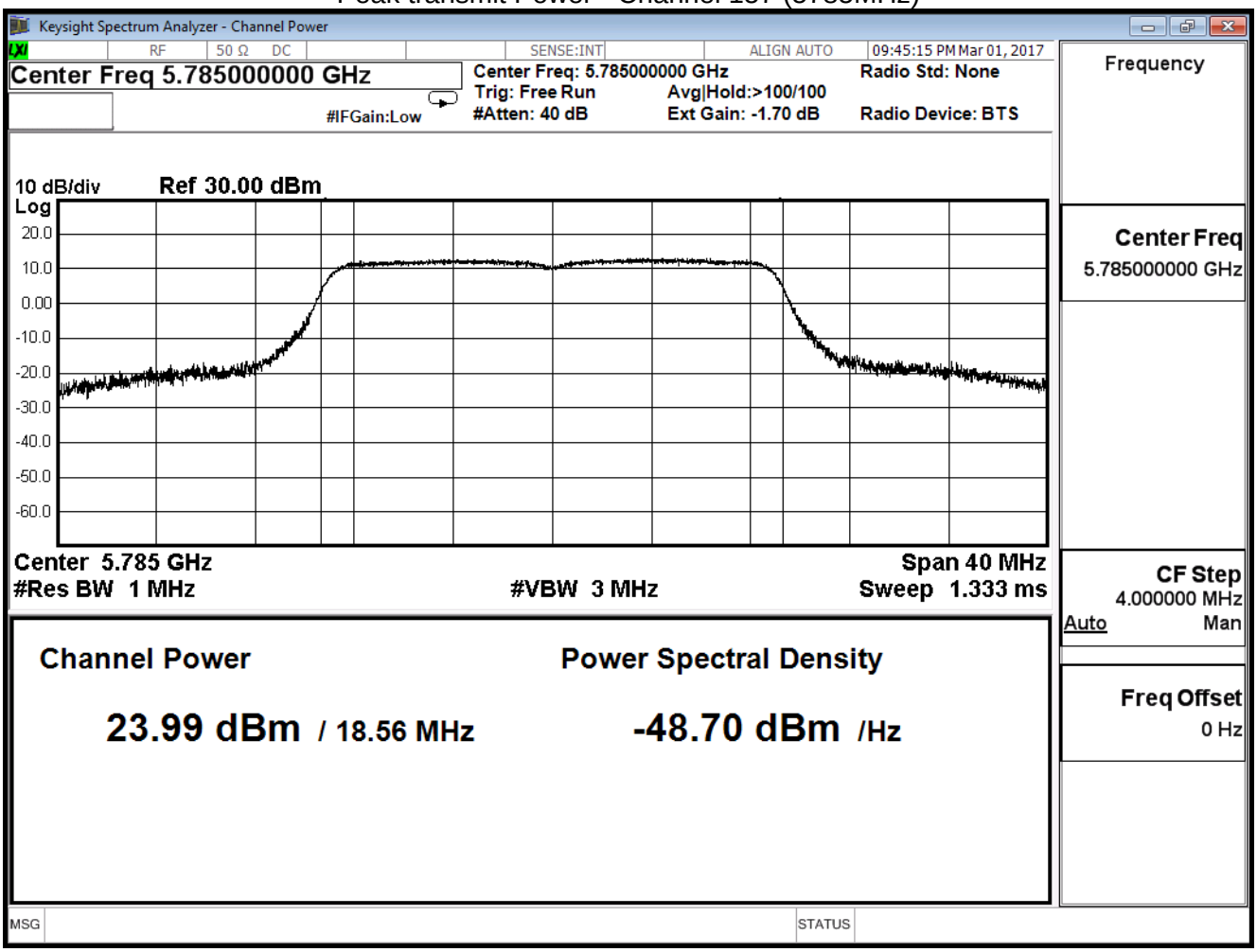
The worst emission of data rate is MCS 24

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
149	5745	23.920	--	--	--	--	--	--	--	≤30dBm
157	5785	23.990	23.910	23.710	23.580	23.500	23.410	23.320	23.190	
165	5825	23.960	--	--	--	--	--	--	--	

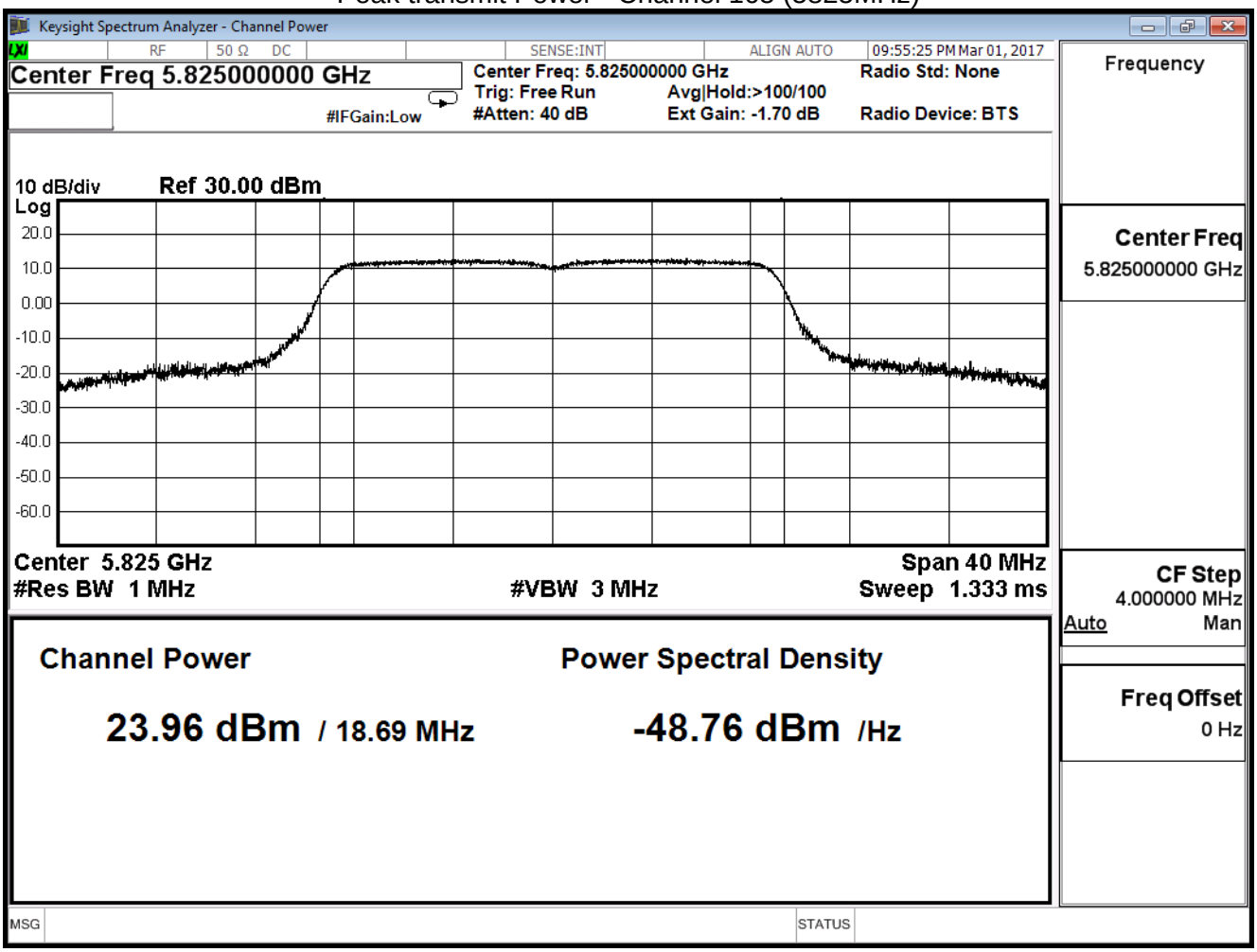
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

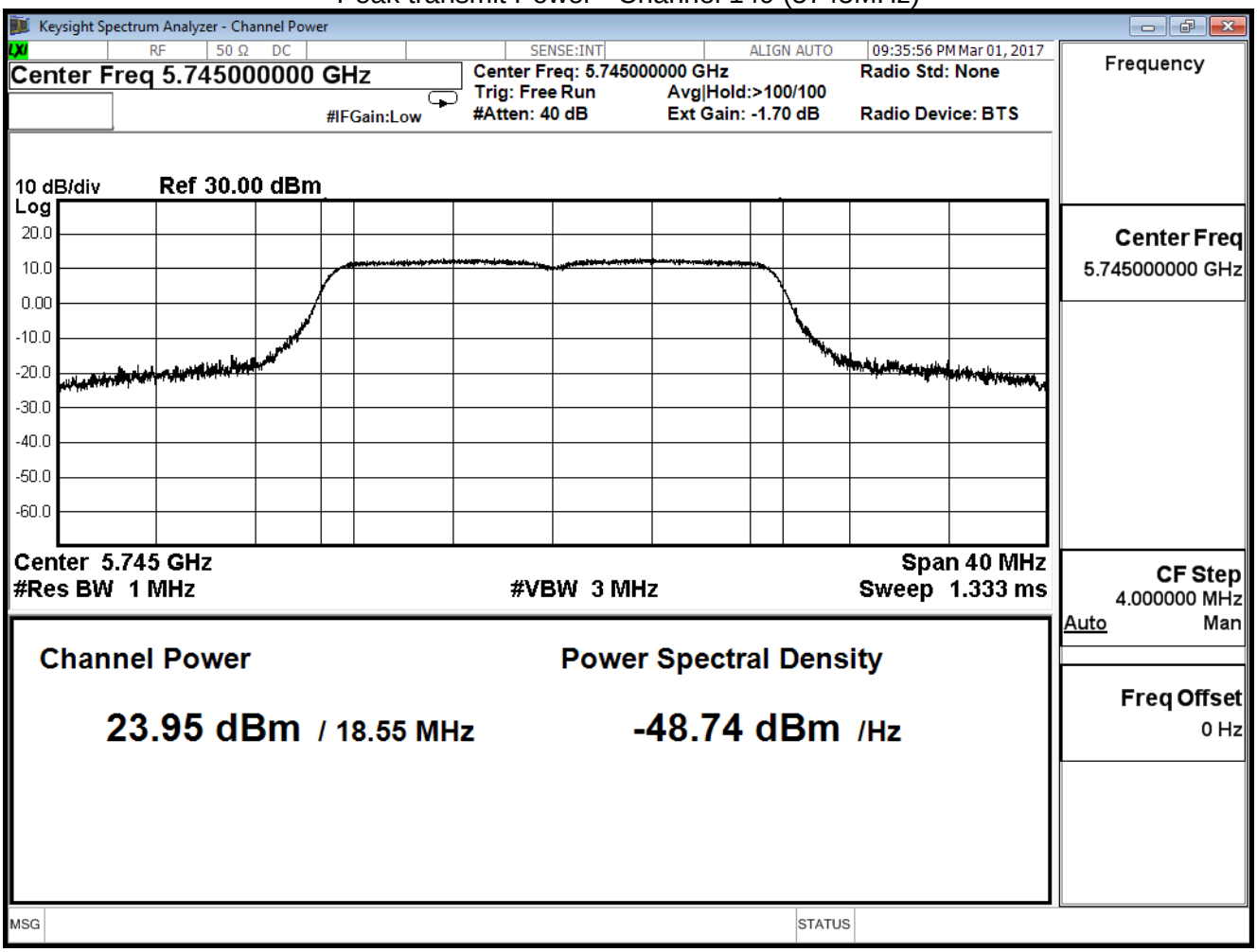
IEEE 802.11n 20MHz (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.950	≤30
157	5785	23.920	≤30
165	5825	23.970	≤30

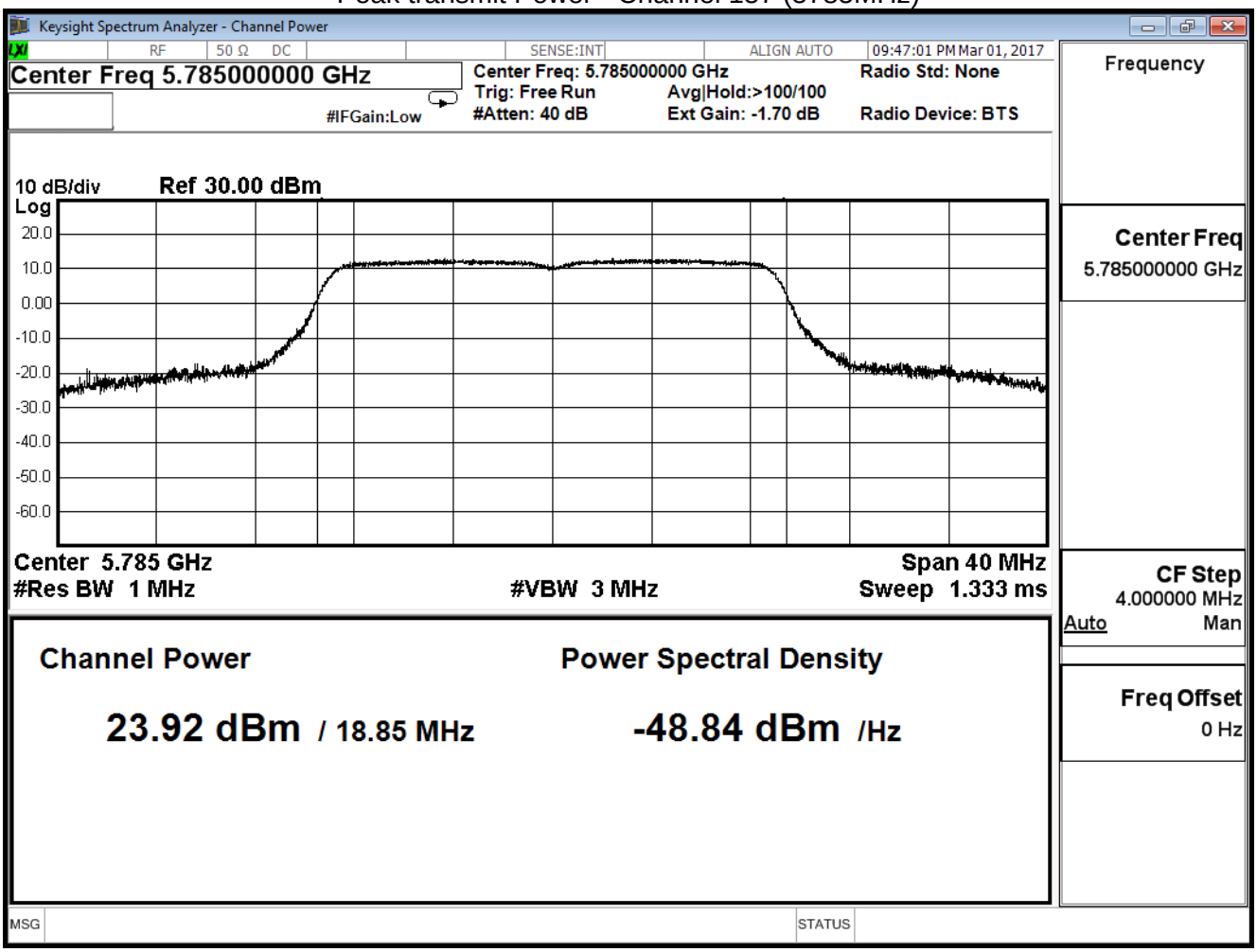
The worst emission of data rate is MCS 24

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
149	5745	23.950	--	--	--	--	--	--	--	≤30dBm
157	5785	23.920	23.850	23.760	23.610	23.500	23.400	23.310	23.010	
165	5825	23.970	--	--	--	--	--	--	--	

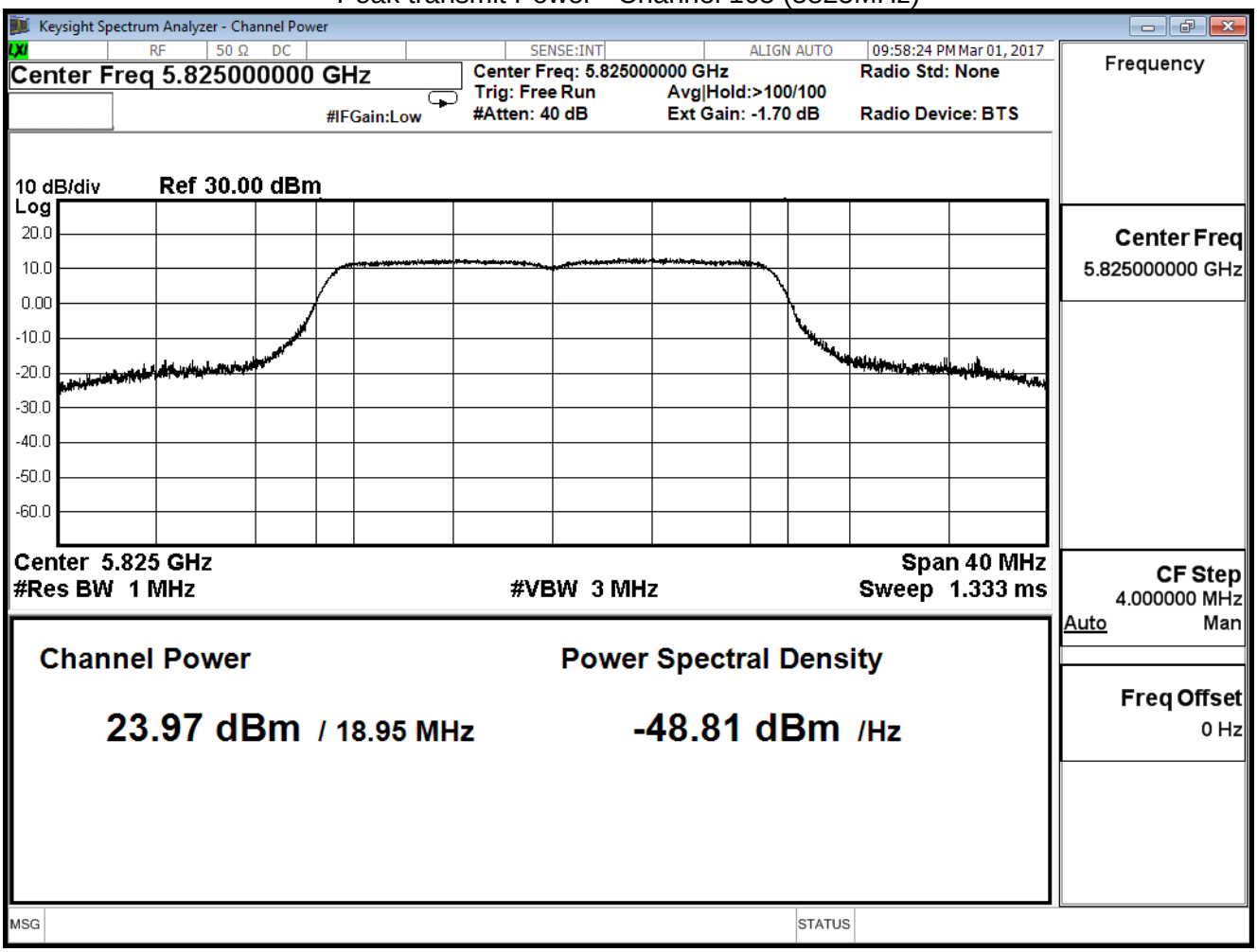
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

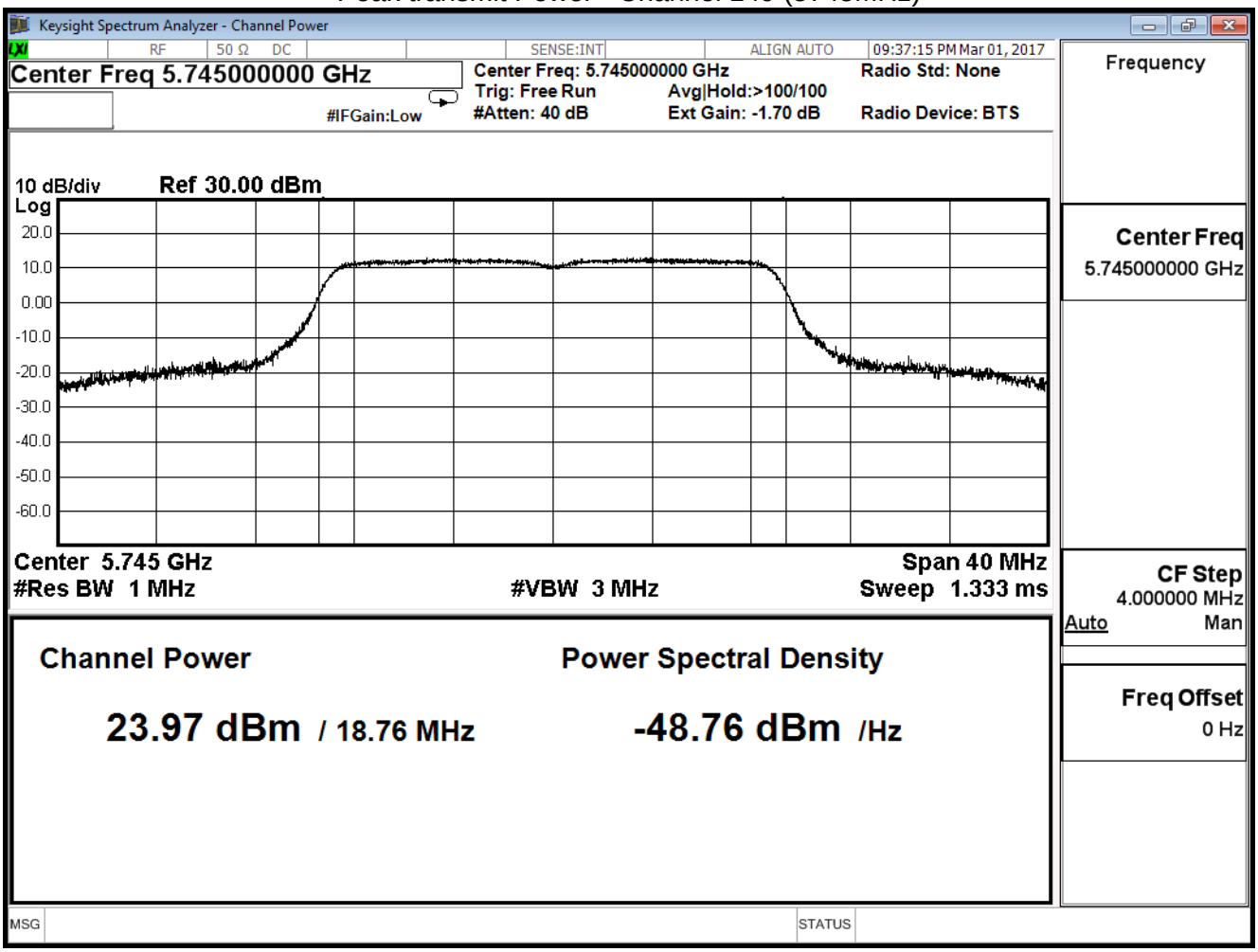
IEEE 802.11n 20MHz (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.970	≤30
157	5785	23.810	≤30
165	5825	23.950	≤30

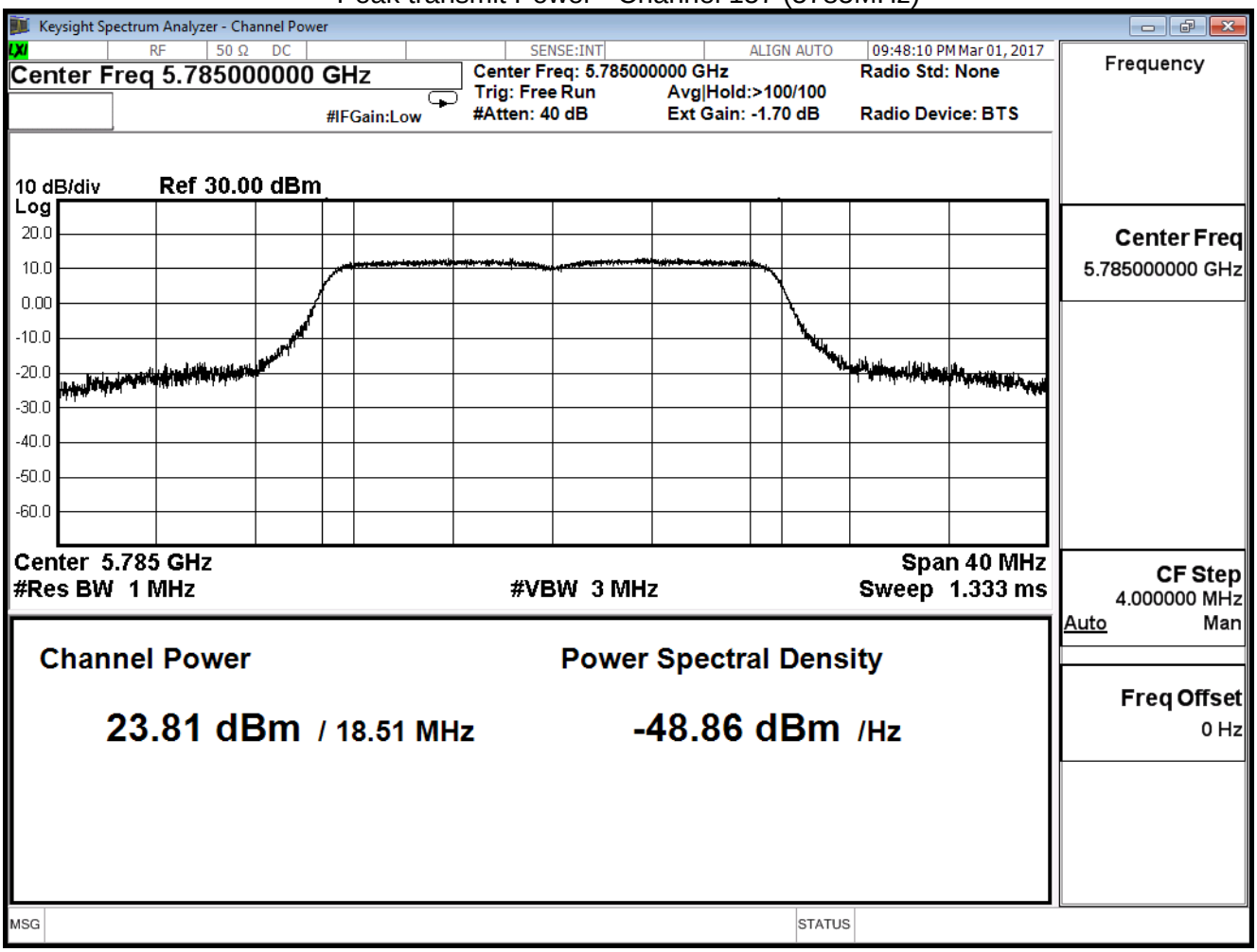
The worst emission of data rate is MCS 24

Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
149	5745	23.970	--	--	--	--	--	--	--	≤30dBm
157	5785	23.810	23.770	23.610	23.510	23.320	23.100	23.010	22.900	
165	5825	23.950	--	--	--	--	--	--	--	

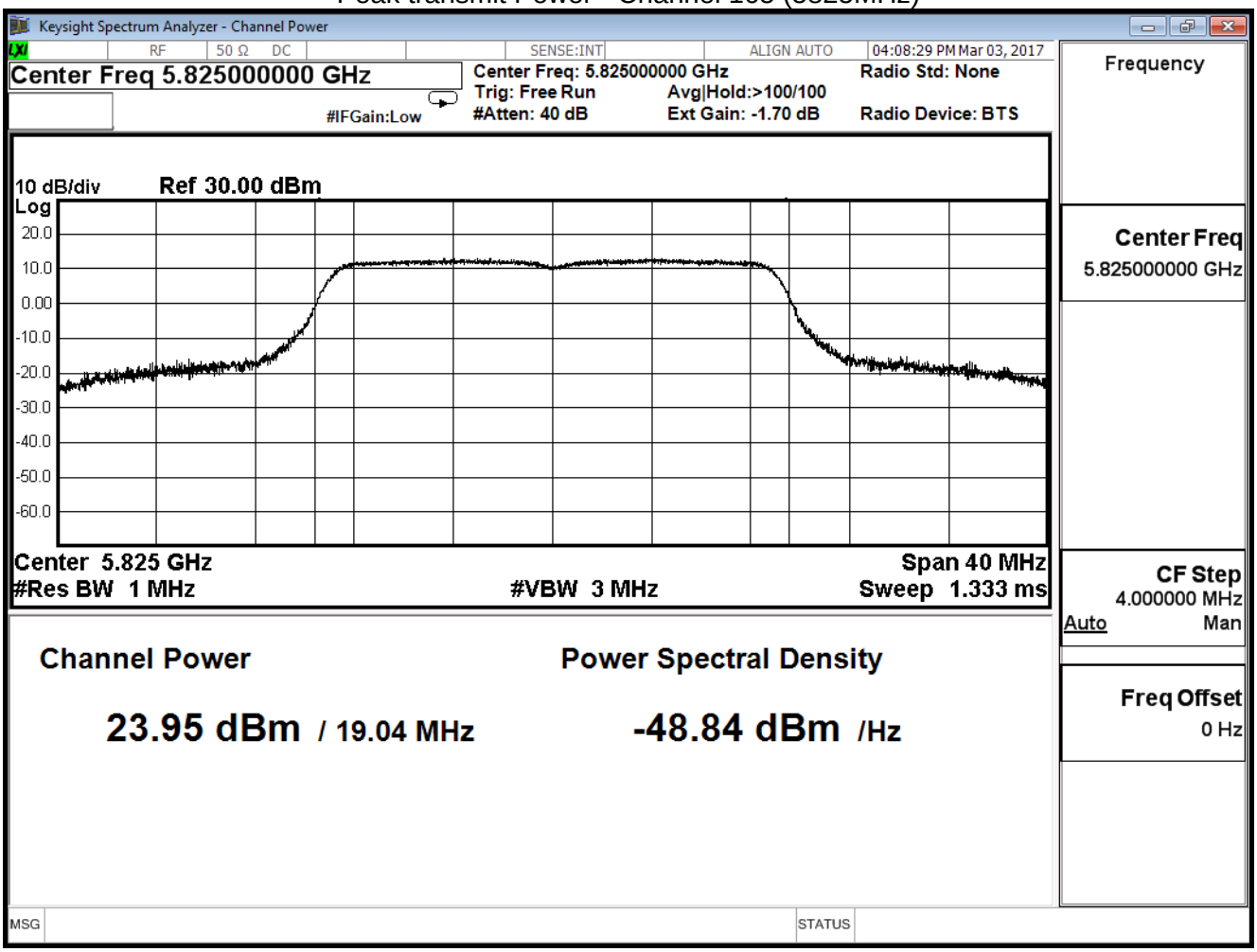
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

IEEE 802.11n 20MHz (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	29.966	≤30
157	5785	29.926	≤30
165	5825	29.966	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

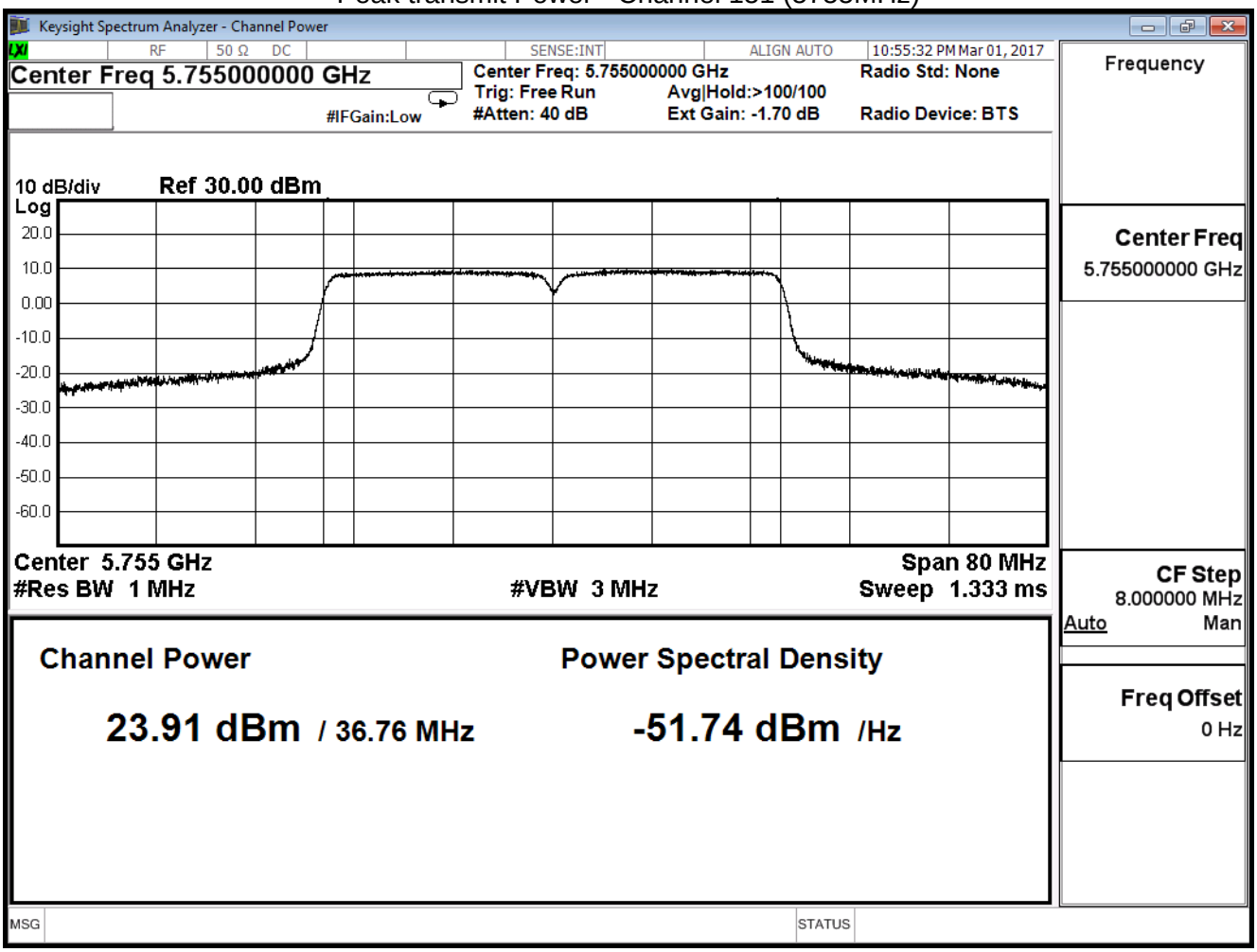
IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.910	≤30
159	5795	23.920	≤30

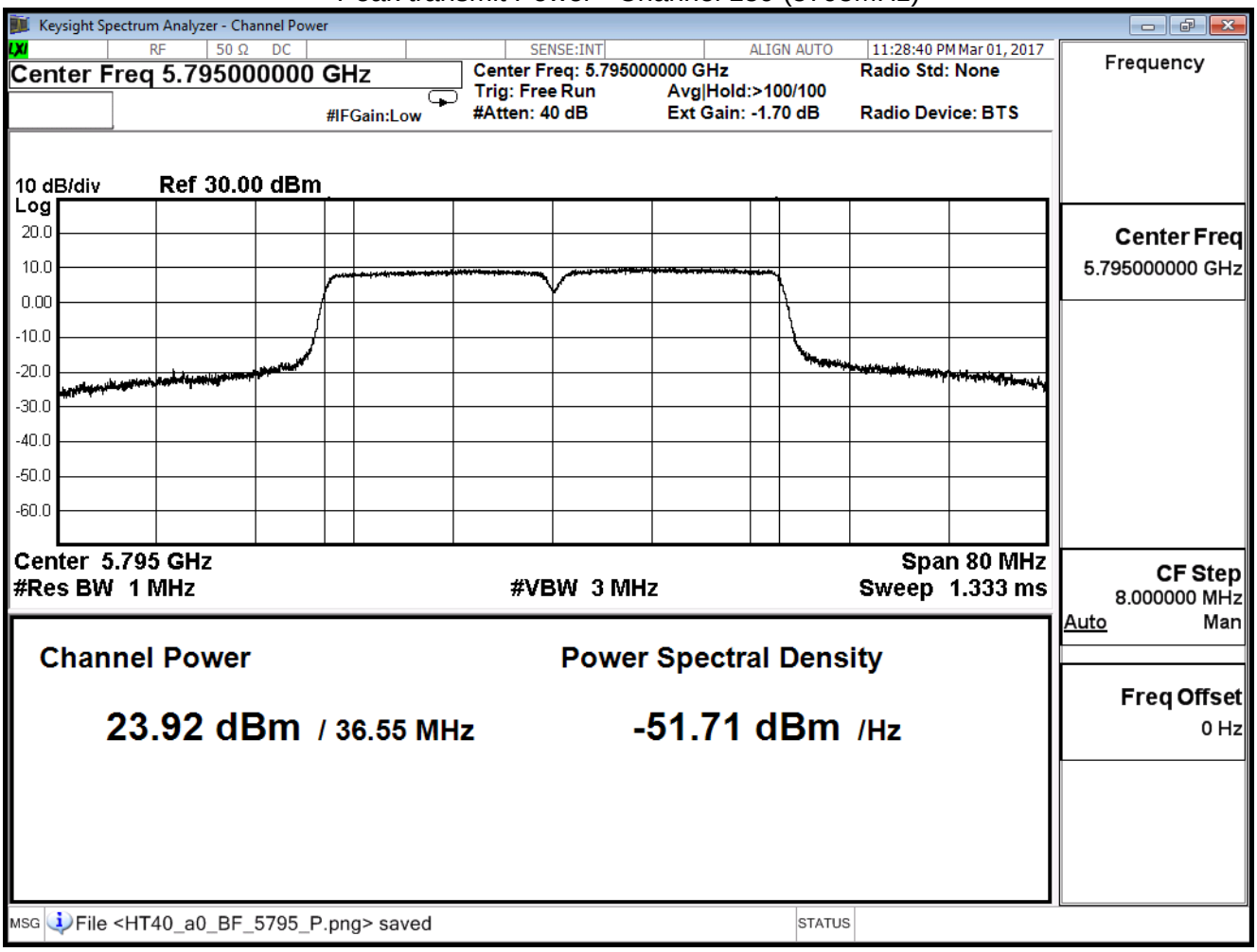
The worst emission of data rate is MCS 24

Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
151	5755	23.910	--	--	--	--	--	--	--	≤30dBm
159	5795	23.920	23.860	23.760	23.510	23.410	23.220	23.080	22.900	

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

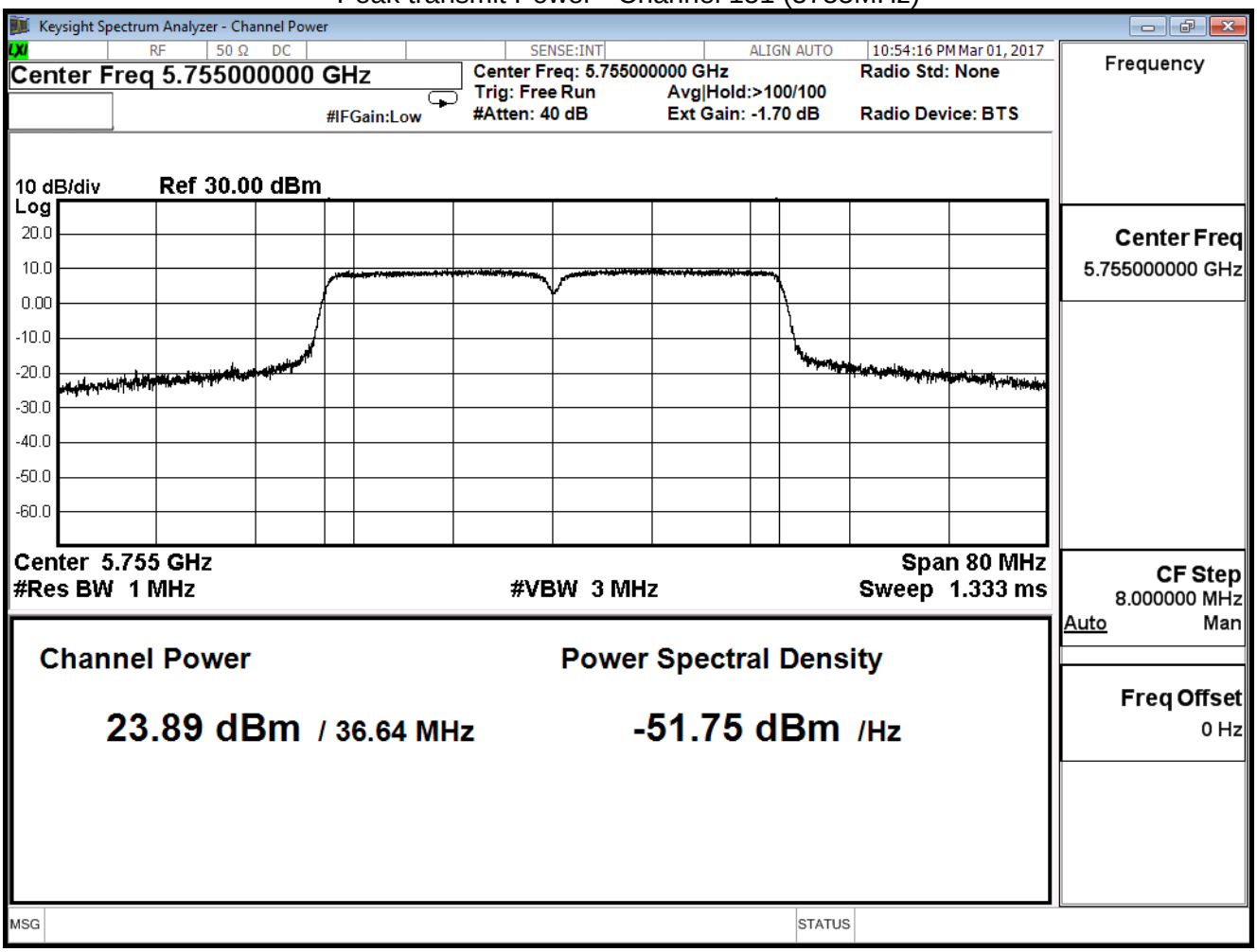
IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.890	≤30
159	5795	23.900	≤30

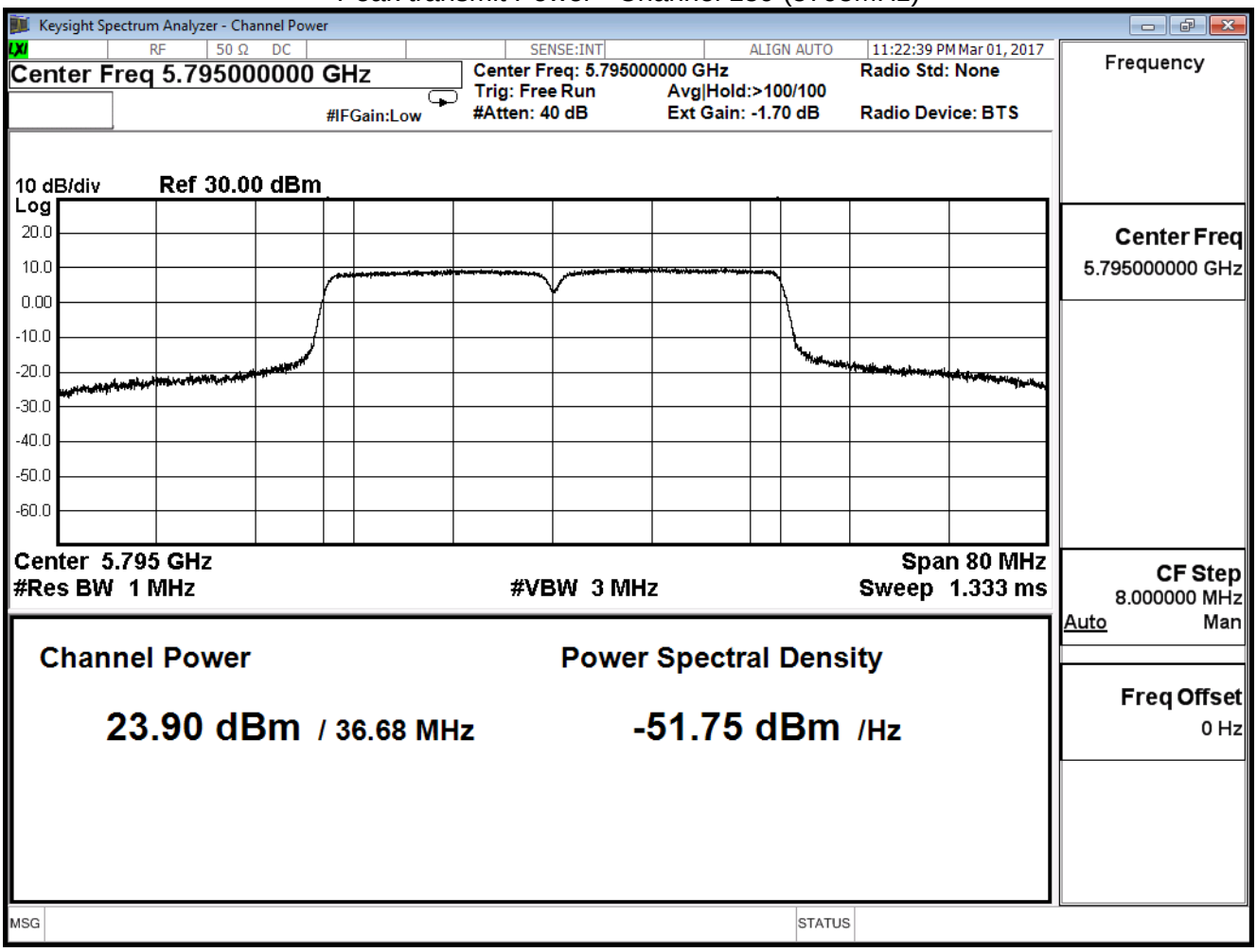
The worst emission of data rate is MCS 24

Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
151	5755	23.890	--	--	--	--	--	--	--	≤30dBm
159	5795	23.900	23.720	23.660	23.580	23.480	23.400	23.280	23.110	

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

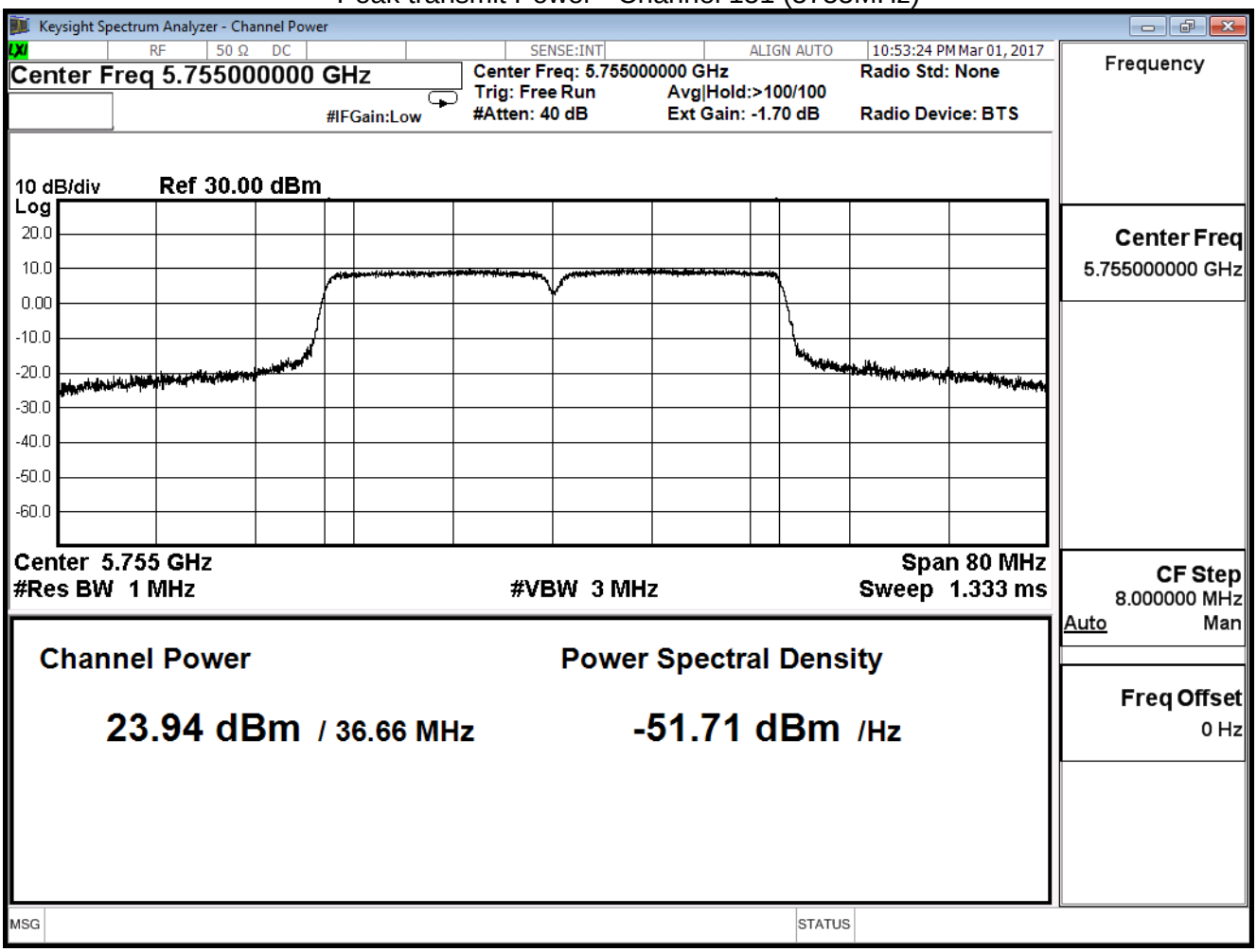
IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.940	≤30
159	5795	23.890	≤30

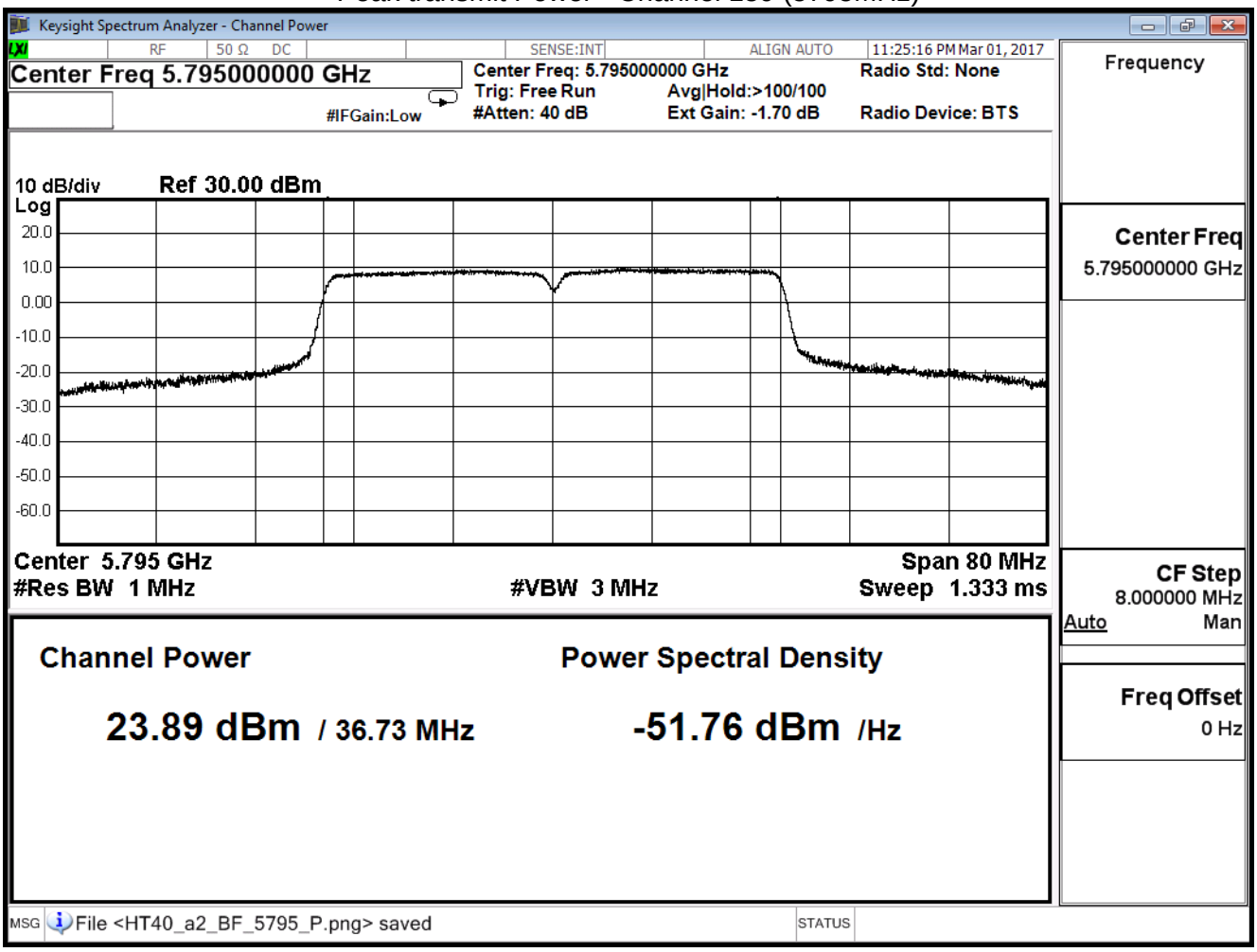
The worst emission of data rate is MCS 24

Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
151	5755	23.940	--	--	--	--	--	--	--	≤30dBm
159	5795	23.890	23.800	23.710	23.580	23.410	23.210	23.080	22.900	

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

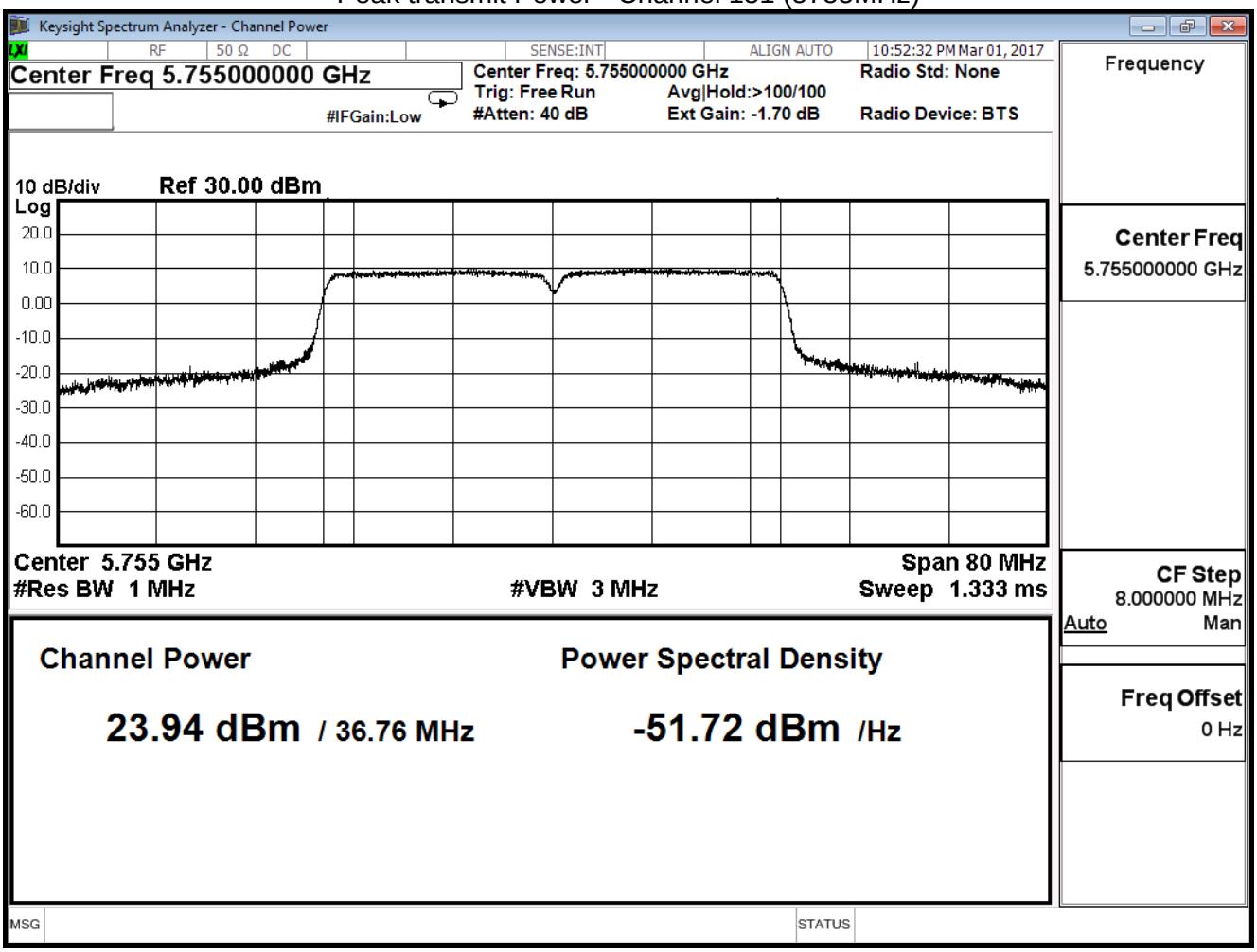
IEEE802.11n 40MHz(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.940	≤30
159	5795	23.910	≤30

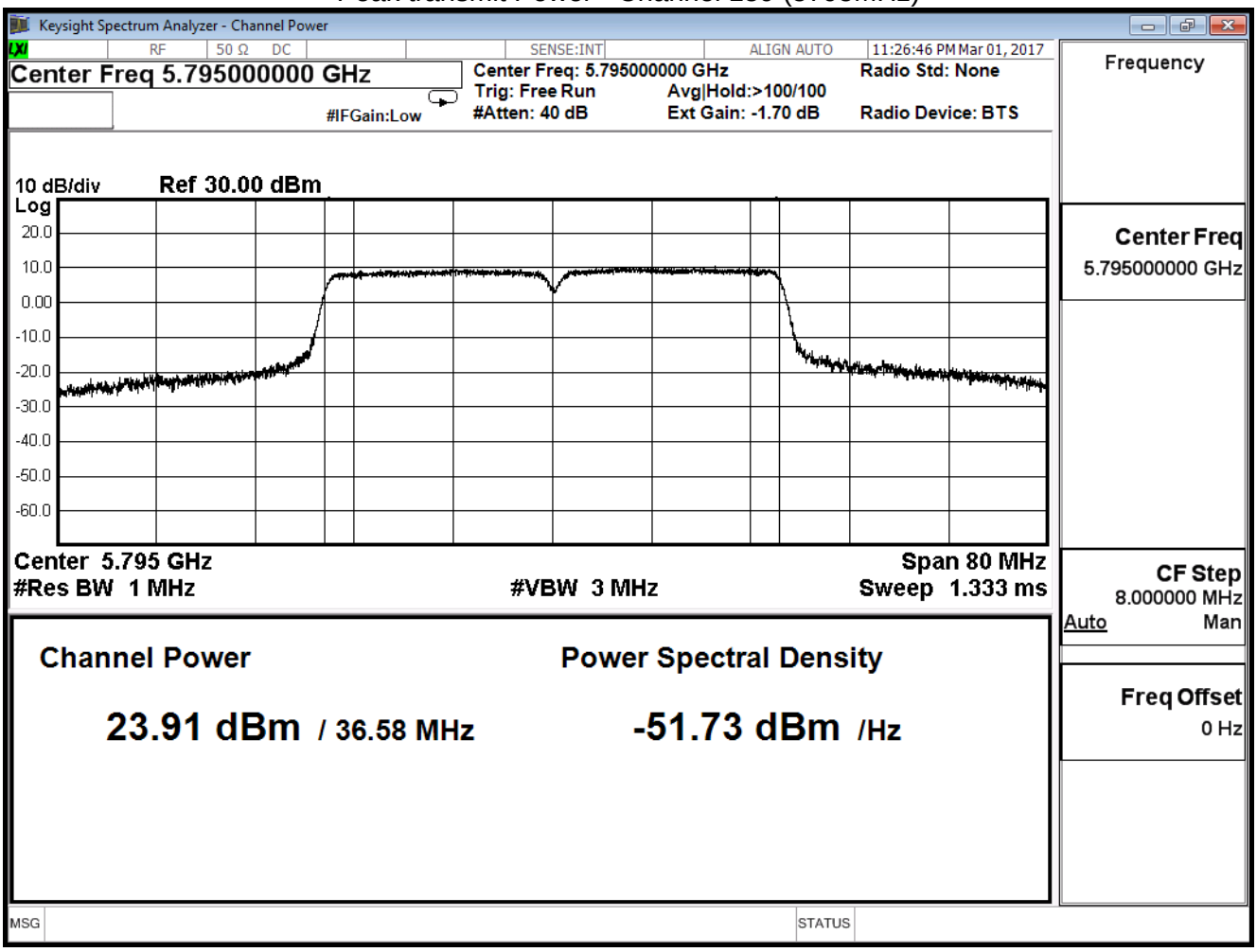
The worst emission of data rate is MCS 24

Channel No	Frequency (MHz)	MCS Index								Required Limit
		24	25	26	27	28	29	30	31	
151	5755	23.940	--	--	--	--	--	--	--	≤30dBm
159	5795	23.910	23.800	23.680	23.420	23.180	23.010	22.90	22.760	

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/01	Test Site	SR10-H

IEEE802.11n 40MHz(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	29.941	≤30
159	5795	29.926	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

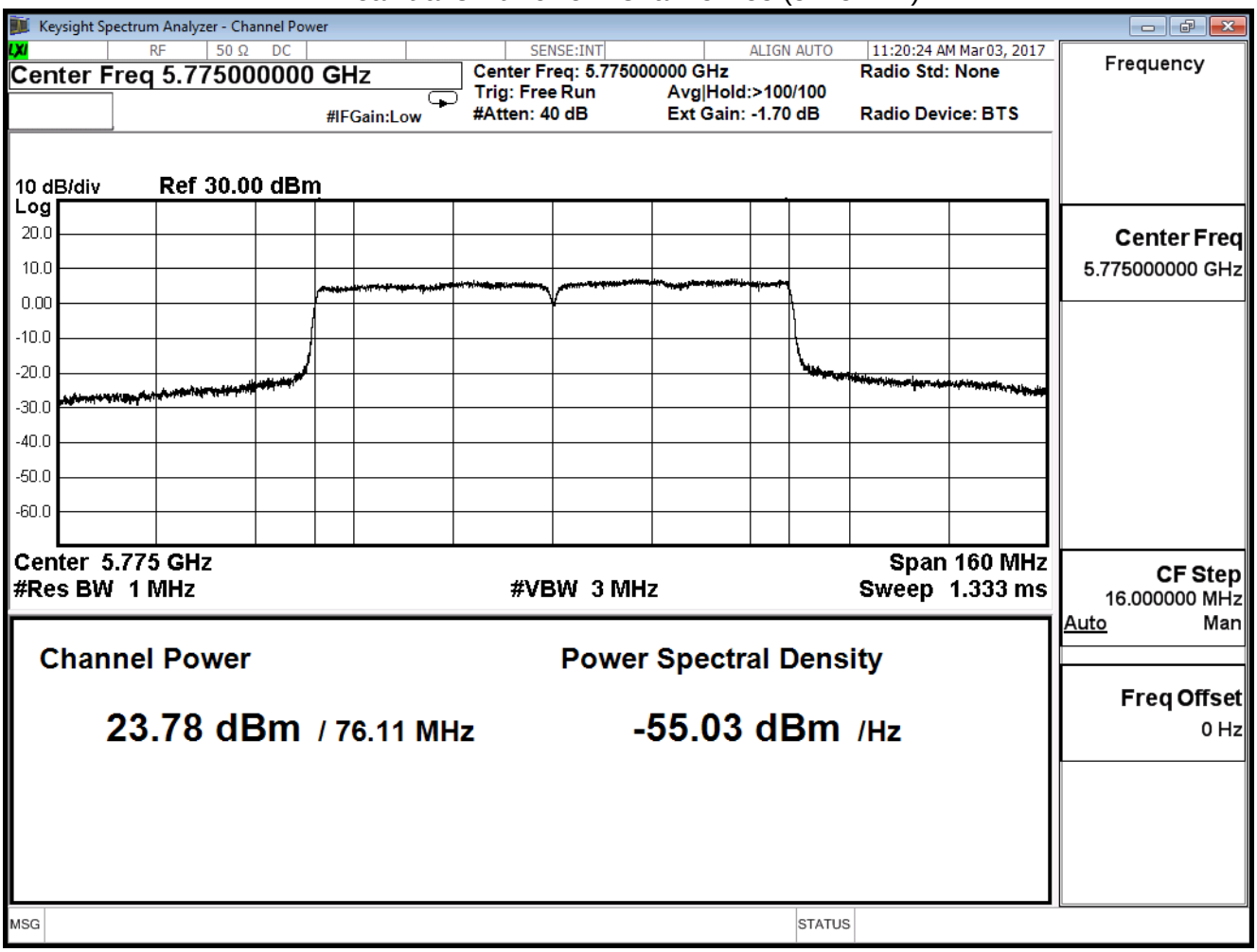
IEEE802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.780	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.780	23.620	23.420	23.110	22.900	22.680	22.410	22.200	21.920	21.680	≤30dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

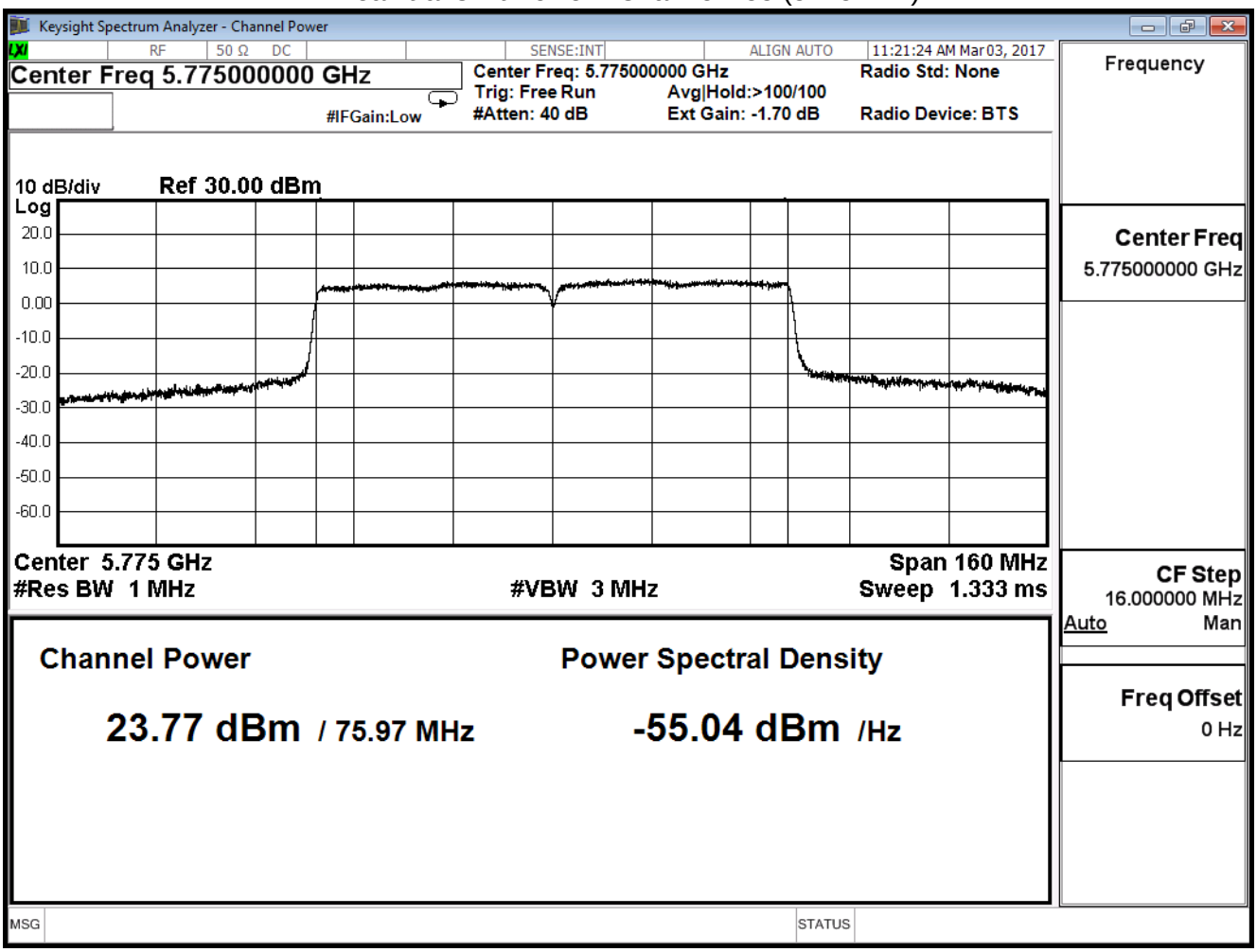
IEEE802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.770	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.770	23.620	23.410	23.080	22.900	22.760	22.550	22.320	22.180	22.000	≤30dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

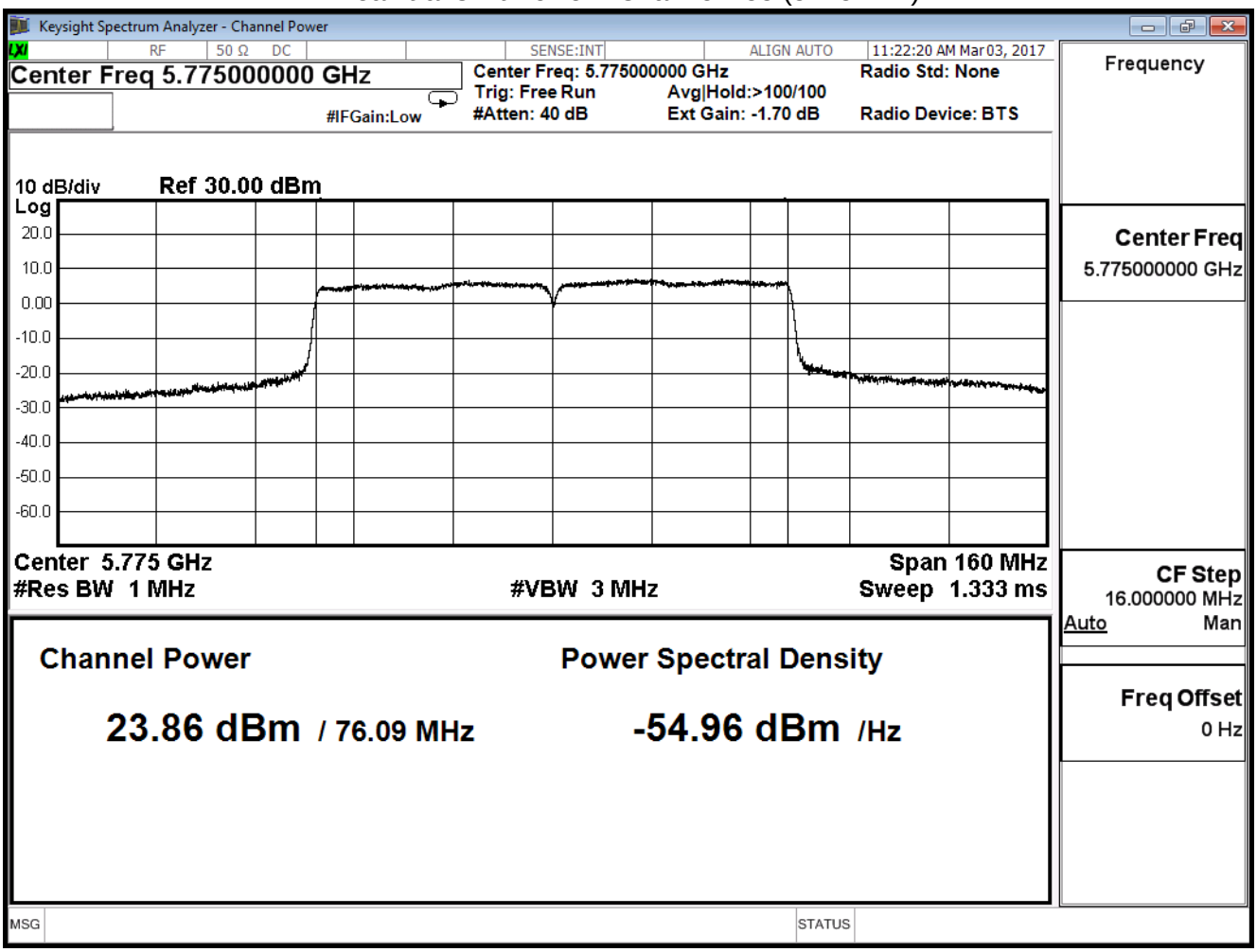
IEEE802.11ac 80MHz (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.860	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.860	23.710	23.580	23.440	23.020	22.890	22.760	22.620	22.510	22.440	≤30dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

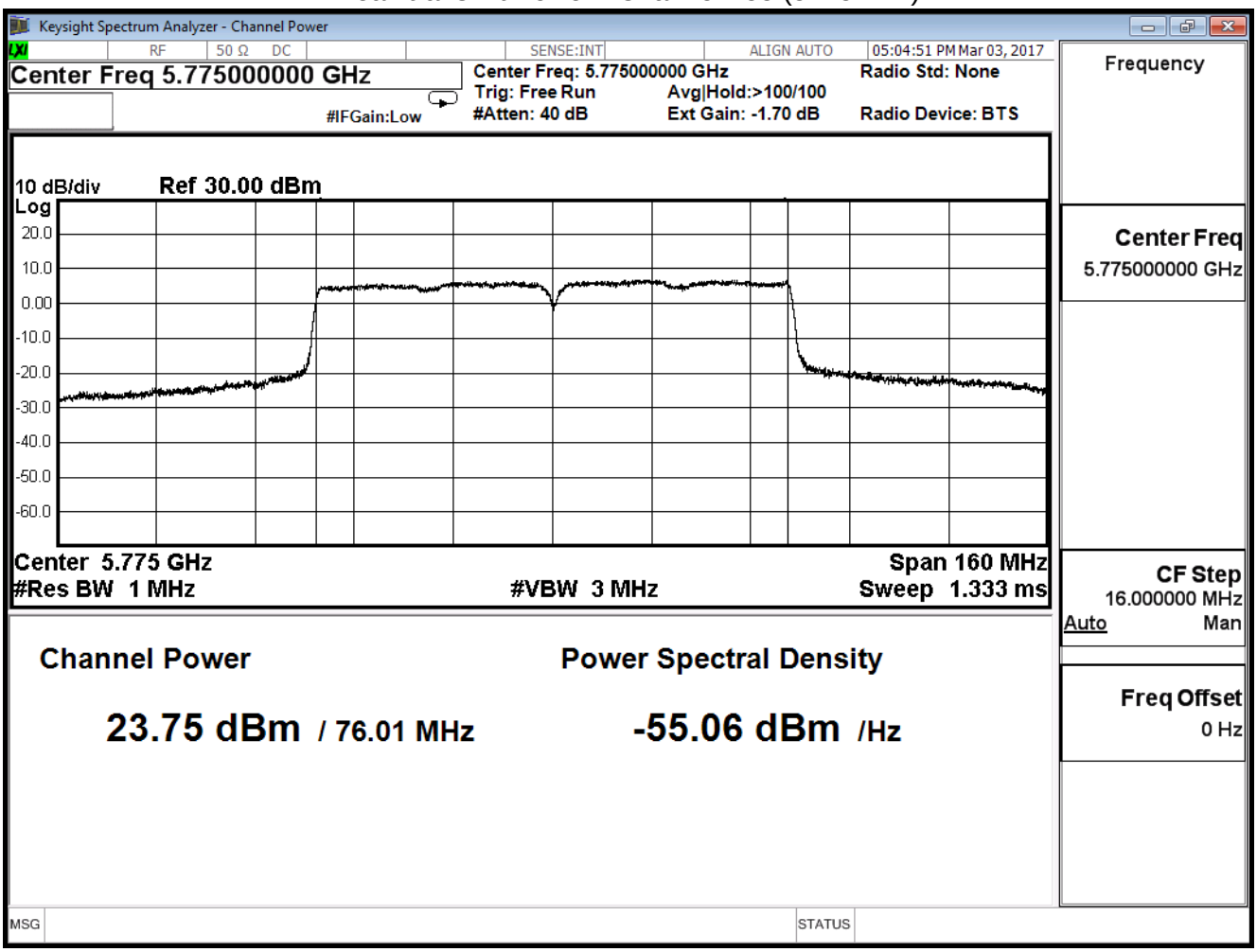
IEEE802.11ac 80MHz (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.750	≤30

The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.750	23.7000	23.320	23.110	23.020	22.900	22.800	22.620	22.410	22.120	≤30dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11ac 80MHz (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	29.811	≤30

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n 20MHz (ANT 0)

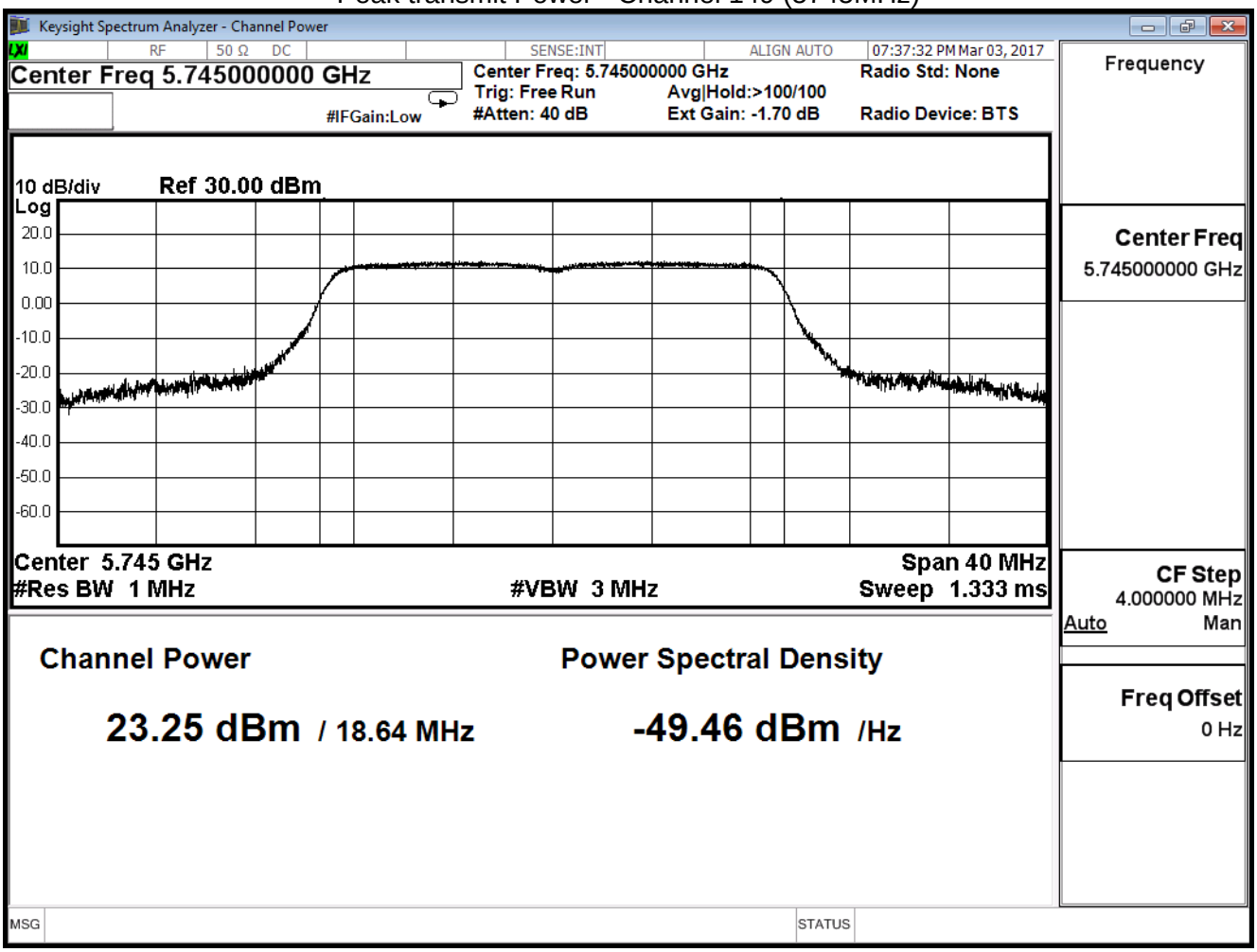
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.250	≤29.38
157	5785	23.260	≤29.38
165	5825	23.320	≤29.38

The worst emission of data rate is MCS 0

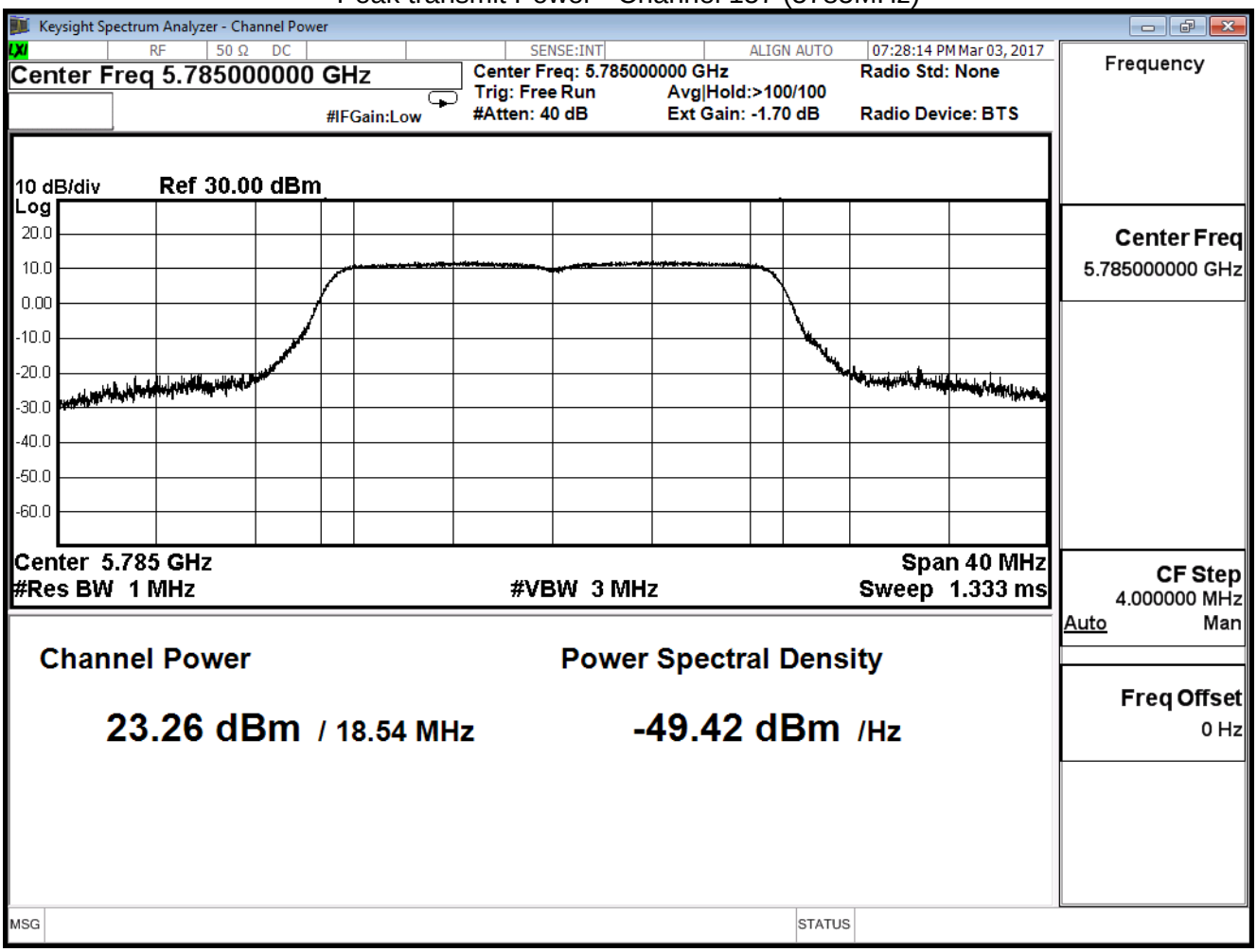
Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
149	5745	23.250	--	--	--	--	--	--	--	≤29.38dBm
157	5785	23.260	23.200	23.110	23.010	22.900	23.770	23.620	23.550	
165	5825	23.320	--	--	--	--	--	--	--	

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62
Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

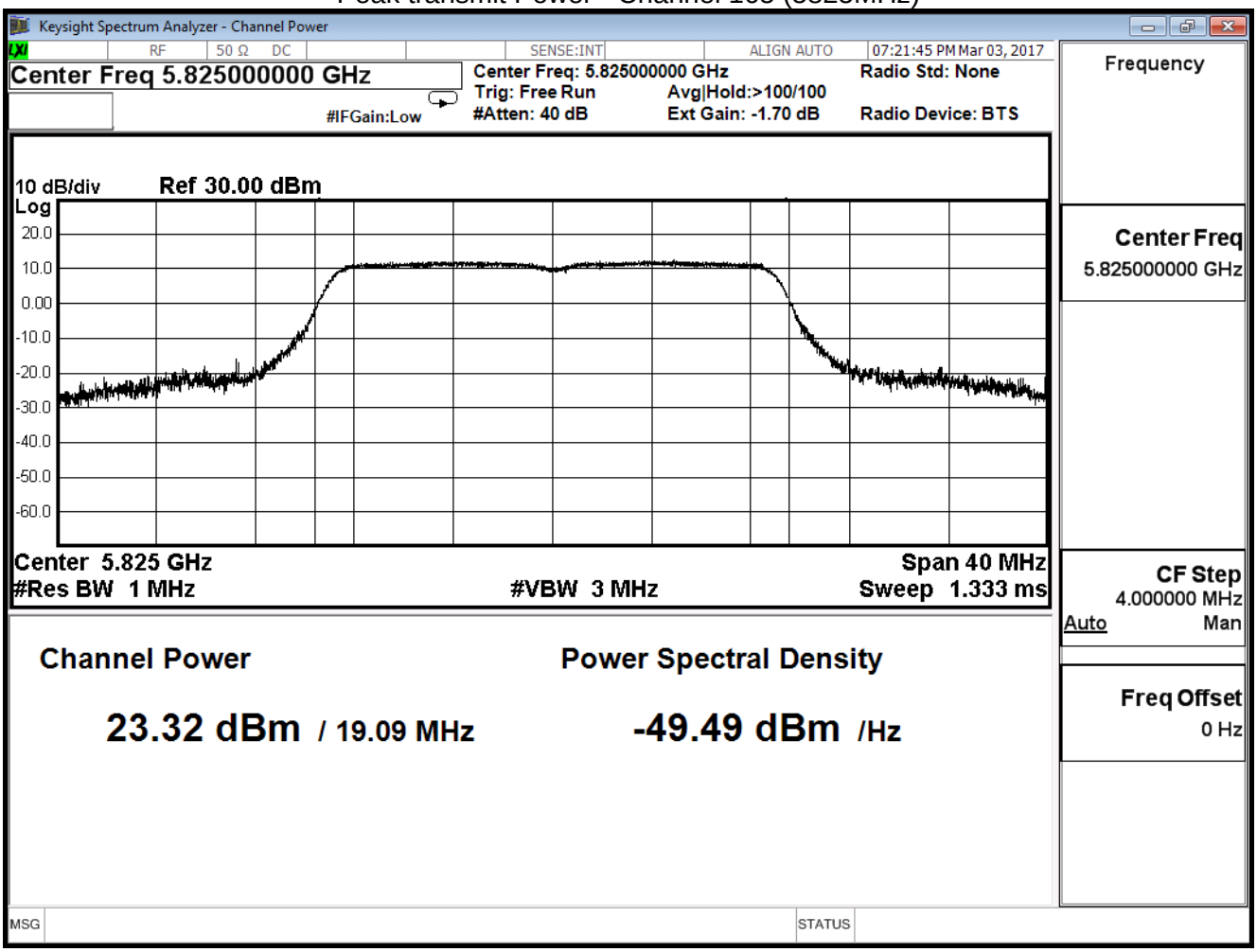
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n 20MHz (ANT 1)

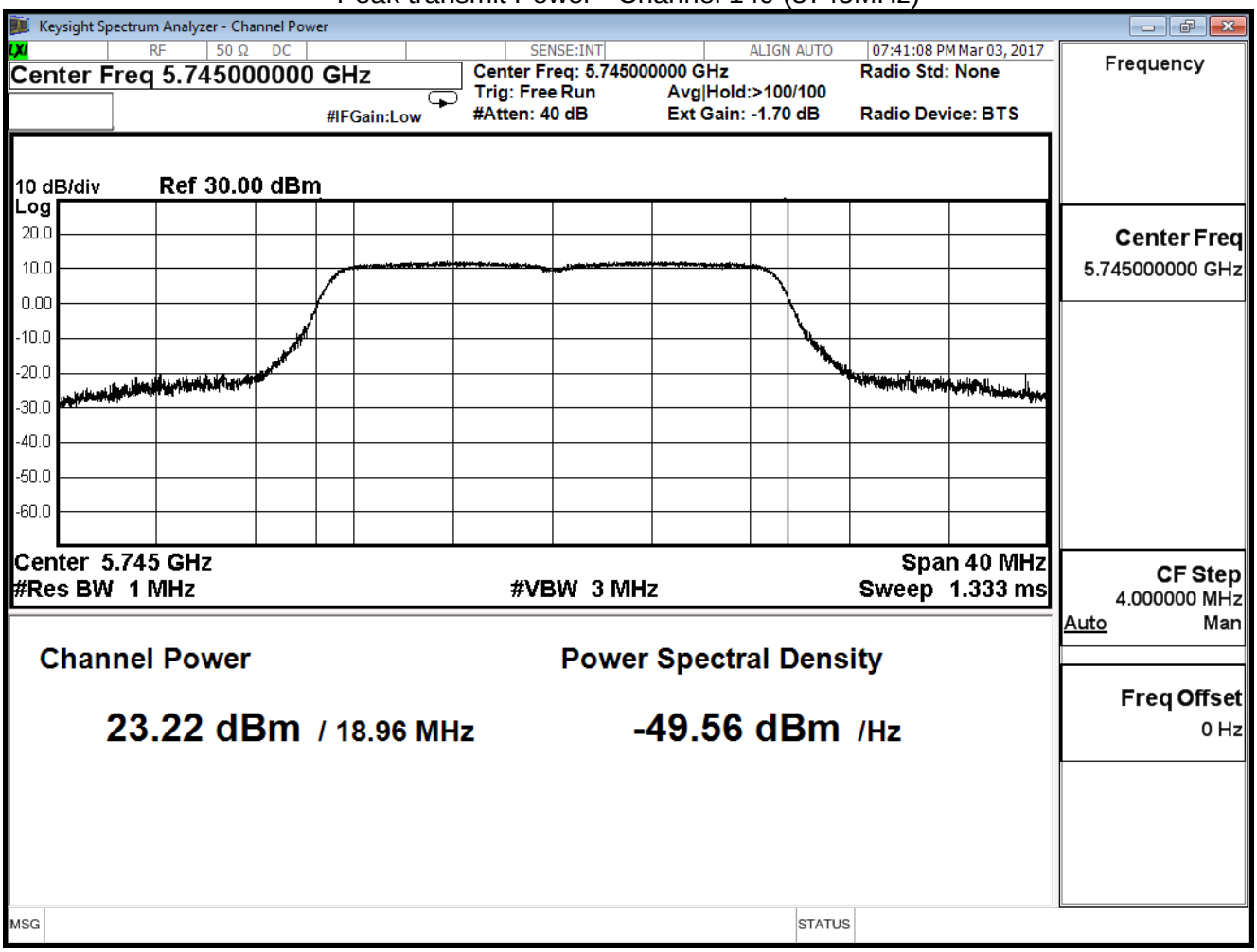
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.220	≤29.38
157	5785	23.260	≤29.38
165	5825	23.300	≤29.38

The worst emission of data rate is MCS 0

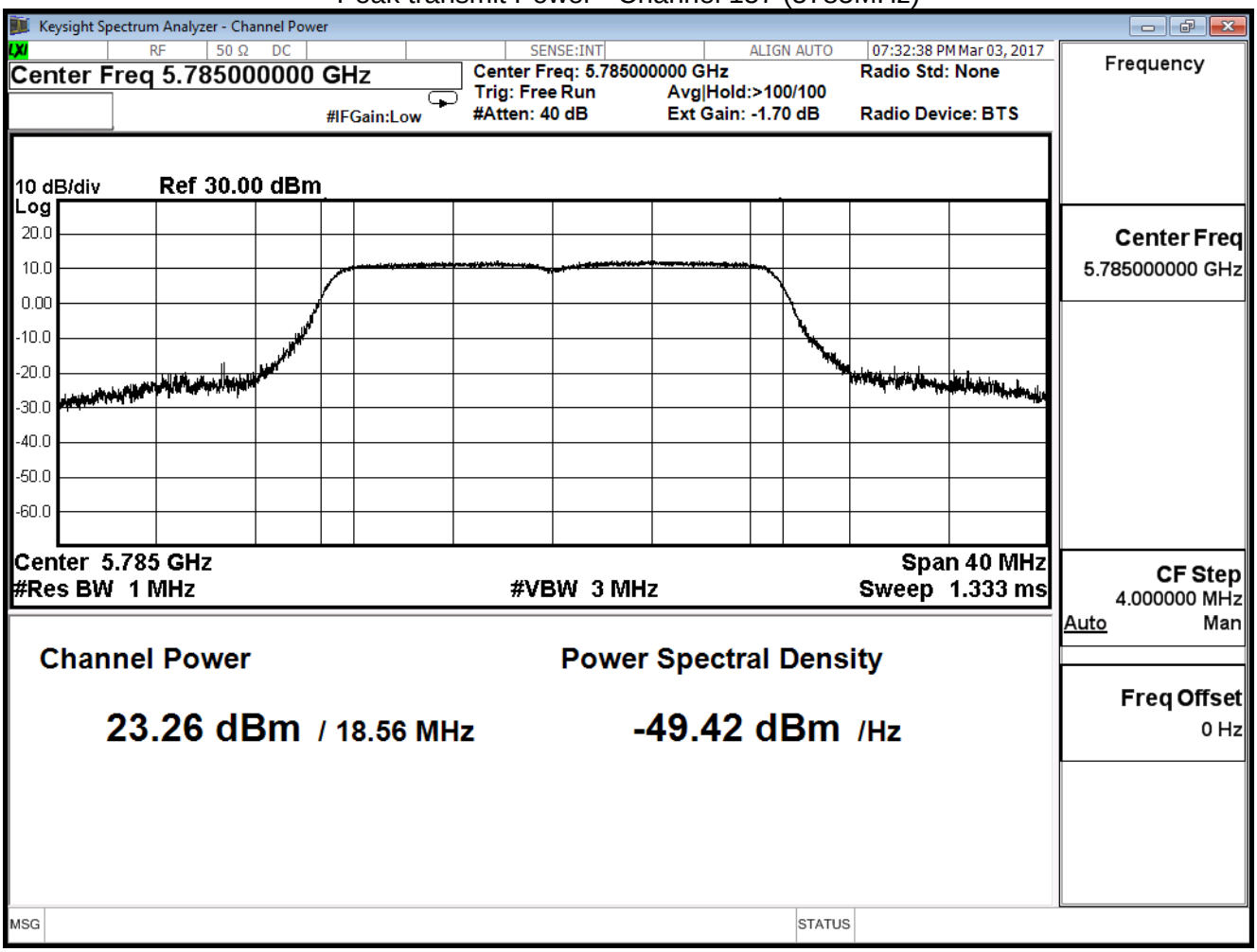
Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
149	5745	23.220	--	--	--	--	--	--	--	≤29.38dBm
157	5785	23.260	23.200	23.110	23.020	22.930	22.810	22.730	22.660	
165	5825	23.300	--	--	--	--	--	--	--	

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62
Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

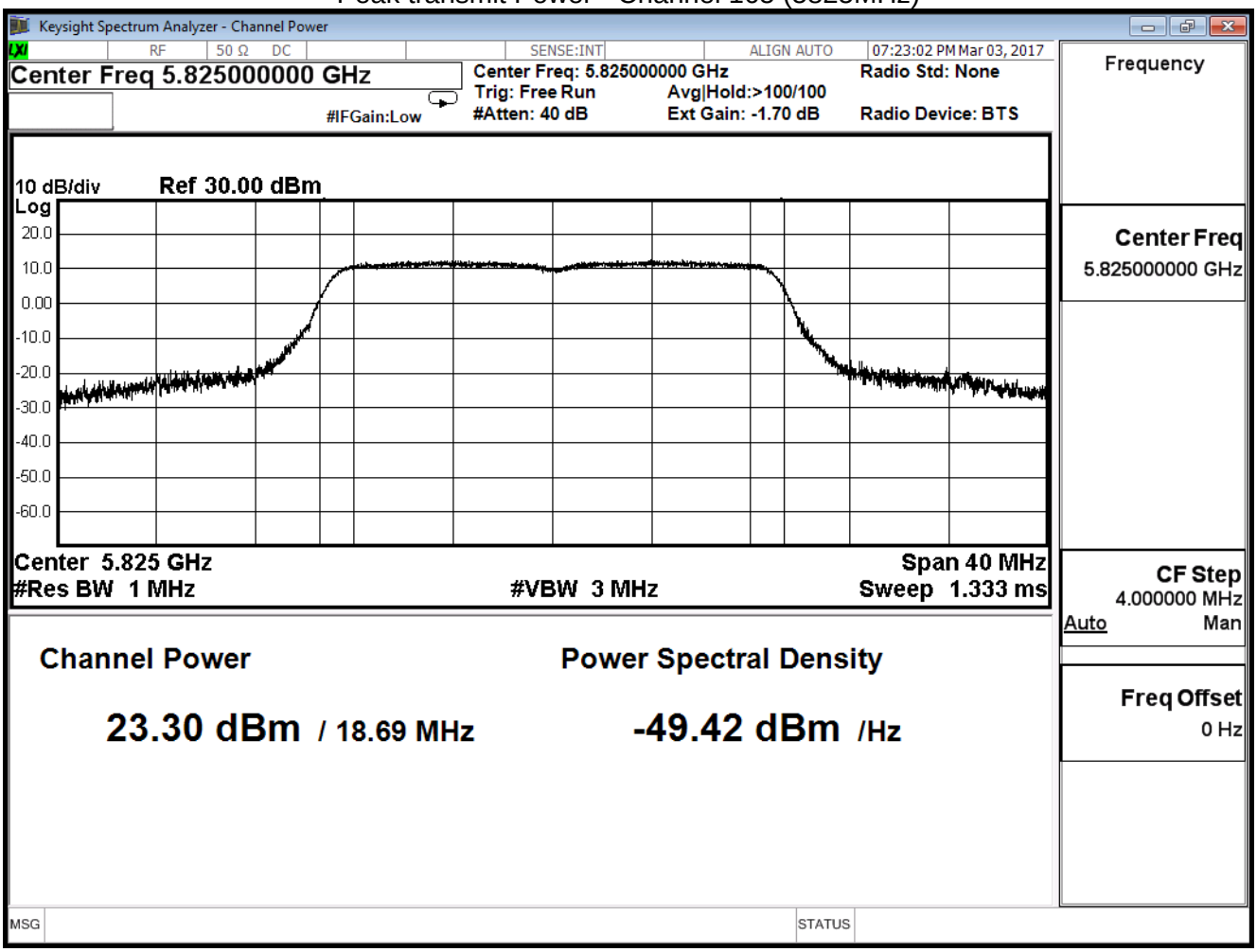
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n 20MHz (ANT 2)

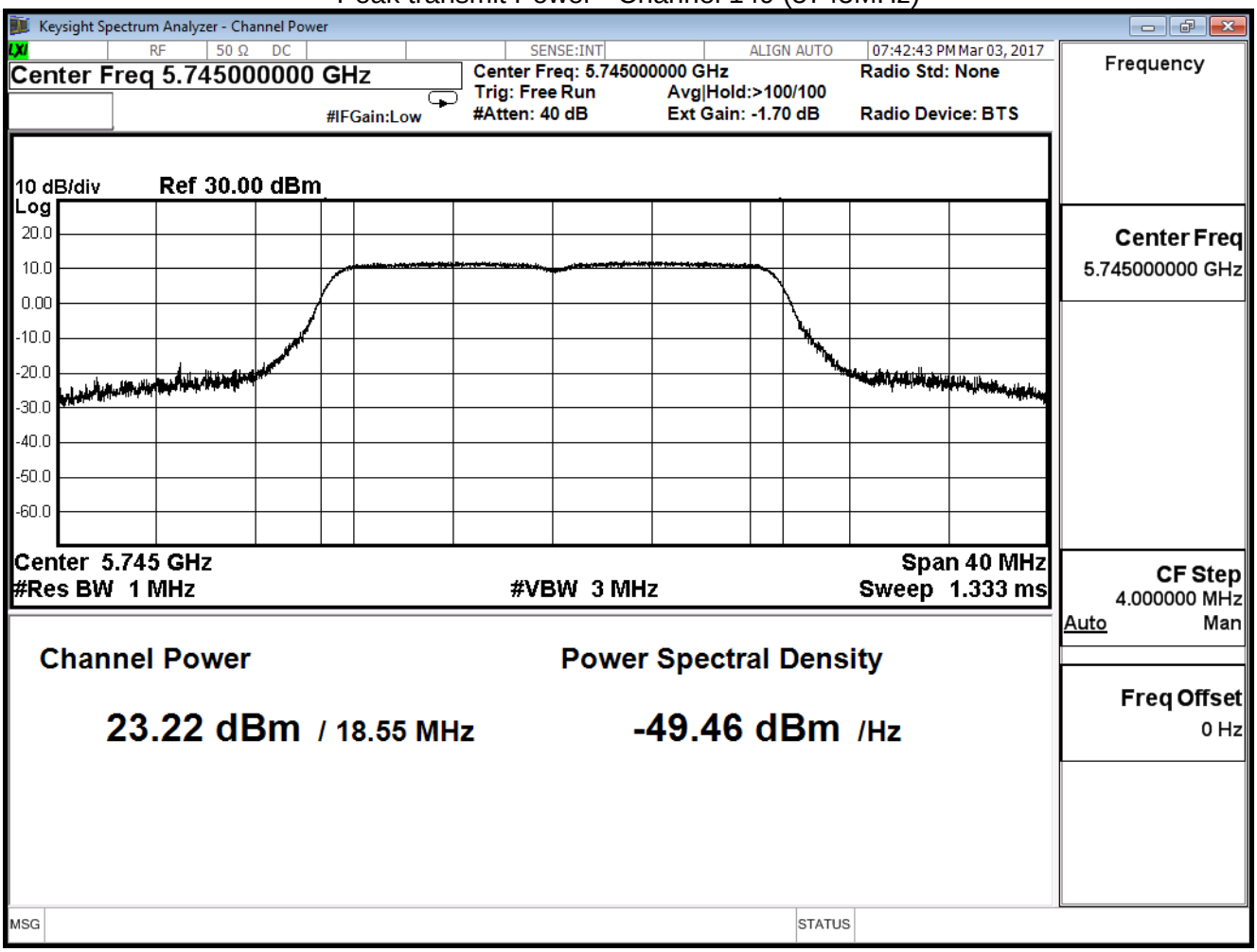
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.220	≤29.38
157	5785	23.230	≤29.38
165	5825	23.350	≤29.38

The worst emission of data rate is MCS 0

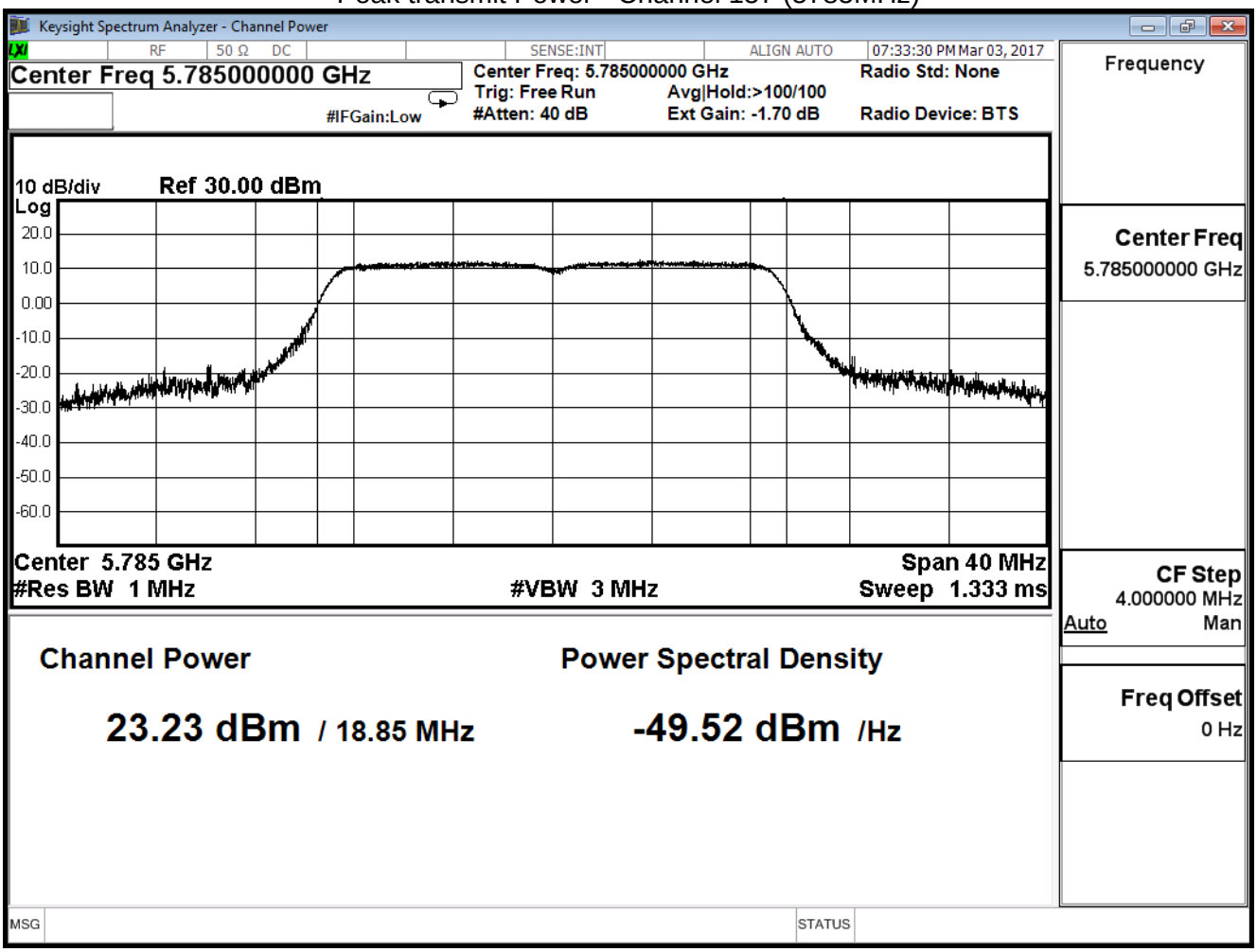
Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
149	5745	23.220	--	--	--	--	--	--	--	≤29.38dBm
157	5785	23.230	23.200	23.110	23.010	22.910	22.860	22.720	22.550	
165	5825	23.350	--	--	--	--	--	--	--	

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62
Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

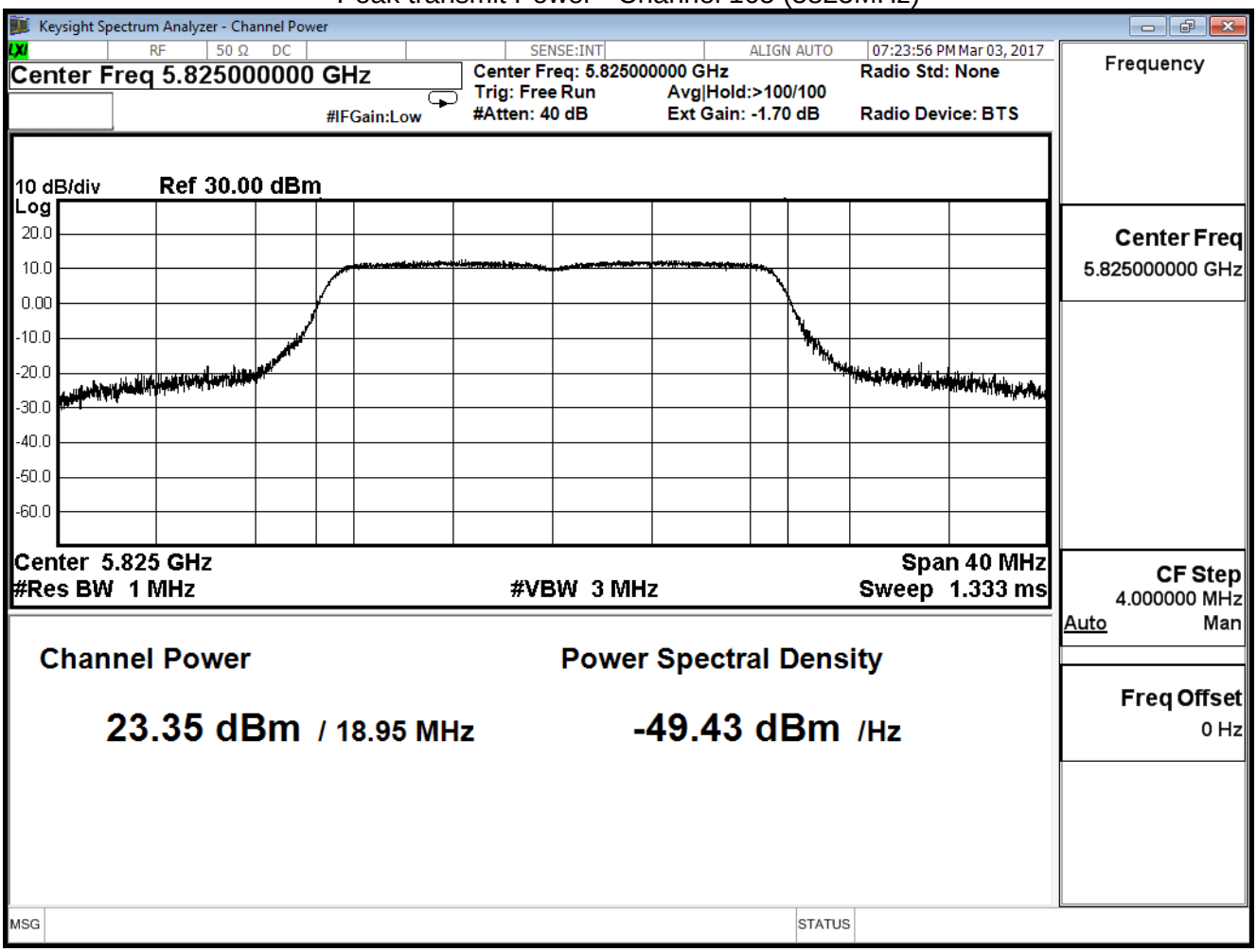
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n 20MHz (ANT 3)

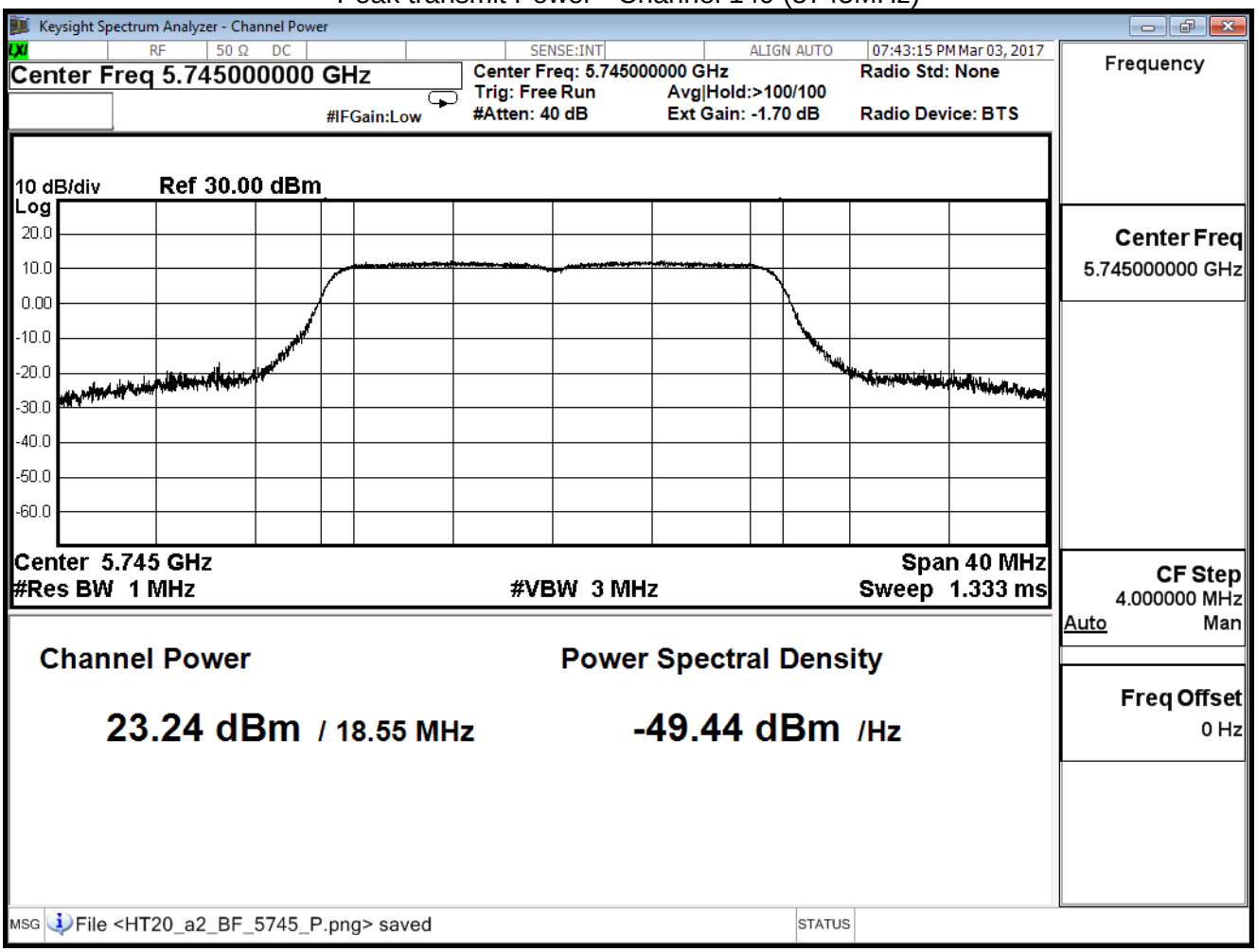
Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	23.240	≤29.38
157	5785	23.300	≤29.38
165	5825	23.320	≤29.38

The worst emission of data rate is MCS 0

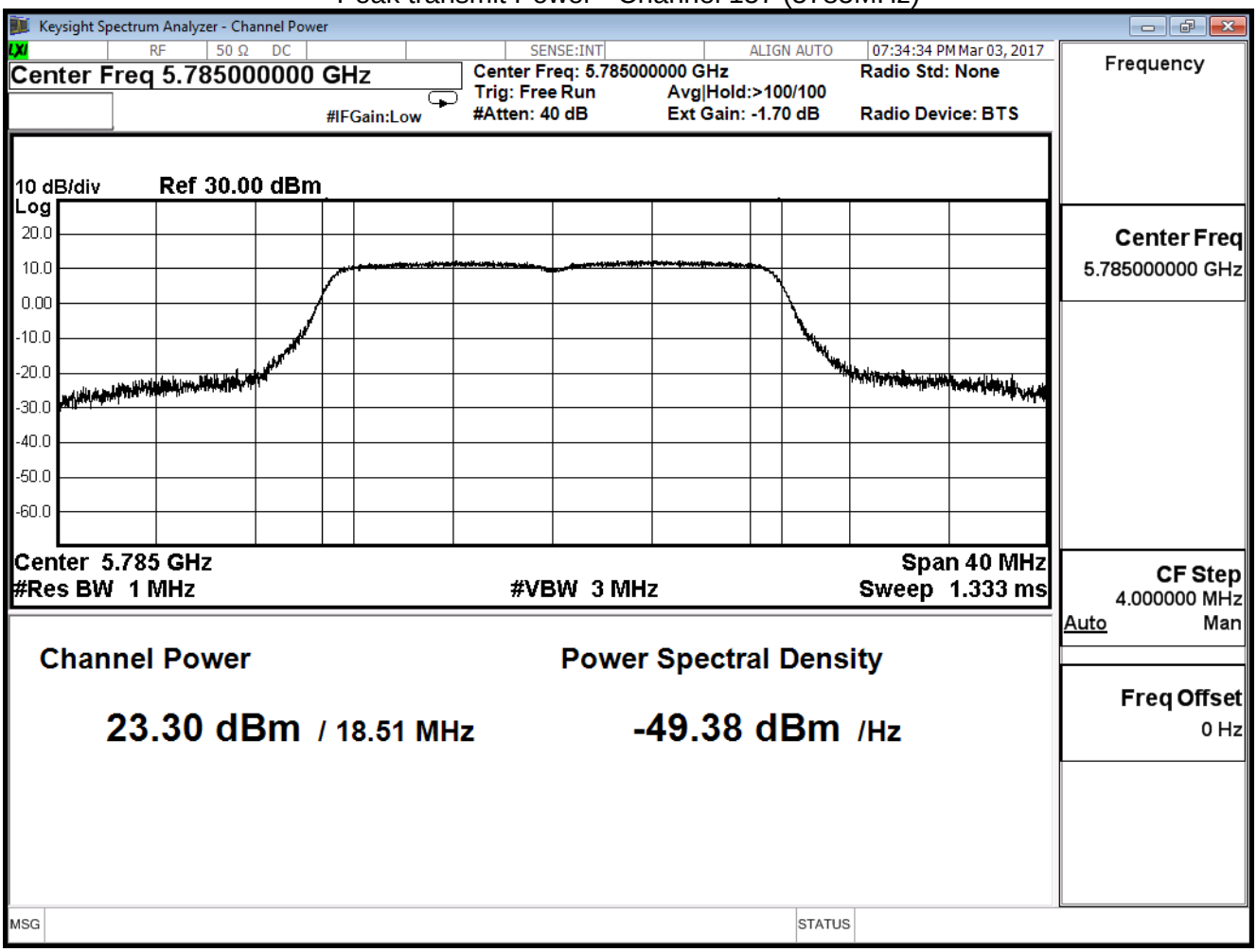
Peak Power Output (dBm)										
Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
149	5745	23.240	--	--	--	--	--	--	--	≤29.38dBm
157	5785	23.300	23.110	23.020	22.910	22.800	22.730	22.660	22.580	
165	5825	23.320	--	--	--	--	--	--	--	

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62
Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

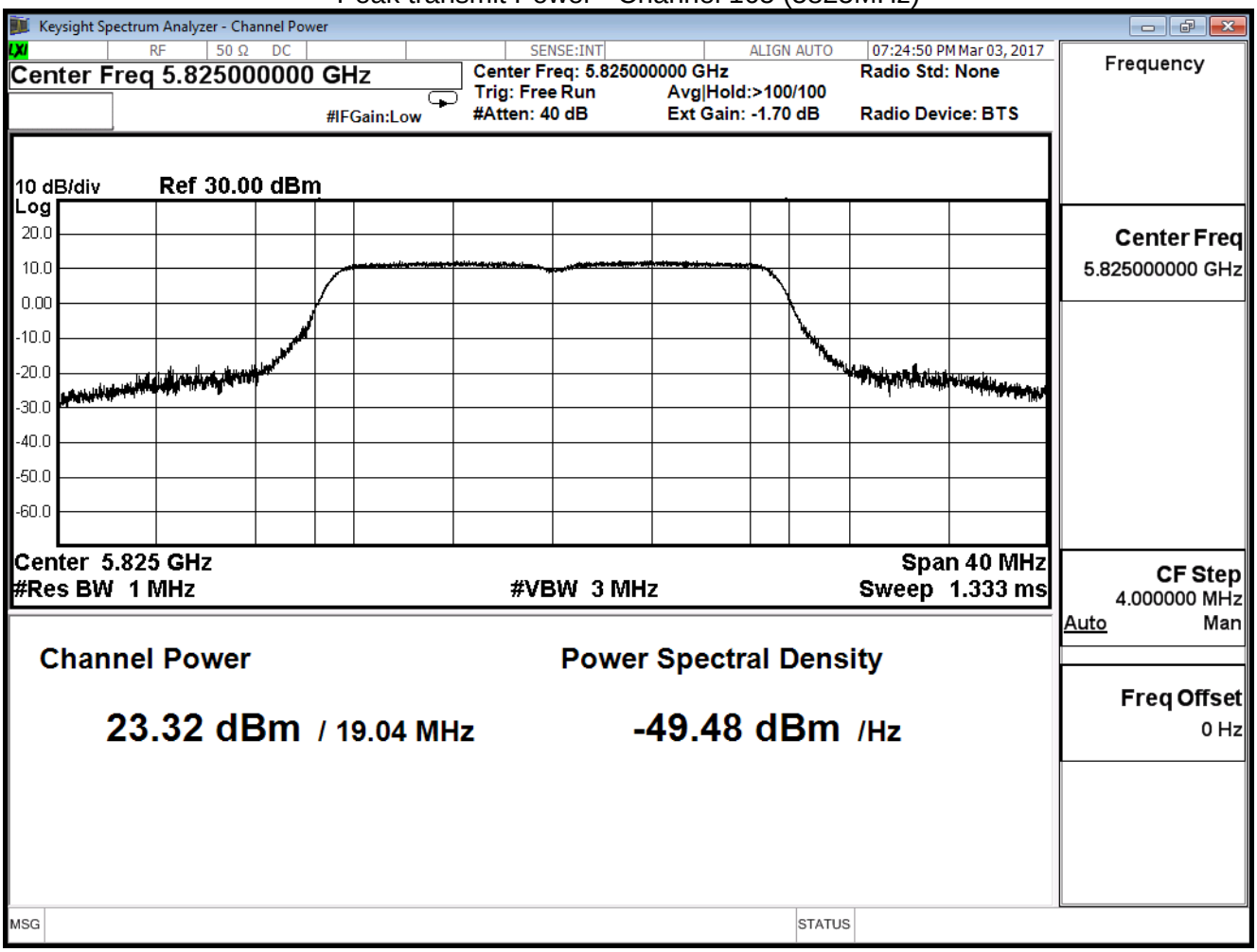
Peak transmit Power - Channel 149 (5745MHz)



Peak transmit Power - Channel 157 (5785MHz)



Peak transmit Power - Channel 165 (5825MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE 802.11n 20MHz (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
149	5745	29.253	≤29.38
157	5785	29.283	≤29.38
165	5825	29.343	≤29.38

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62
Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.300	≤29.38
159	5795	23.350	≤29.38

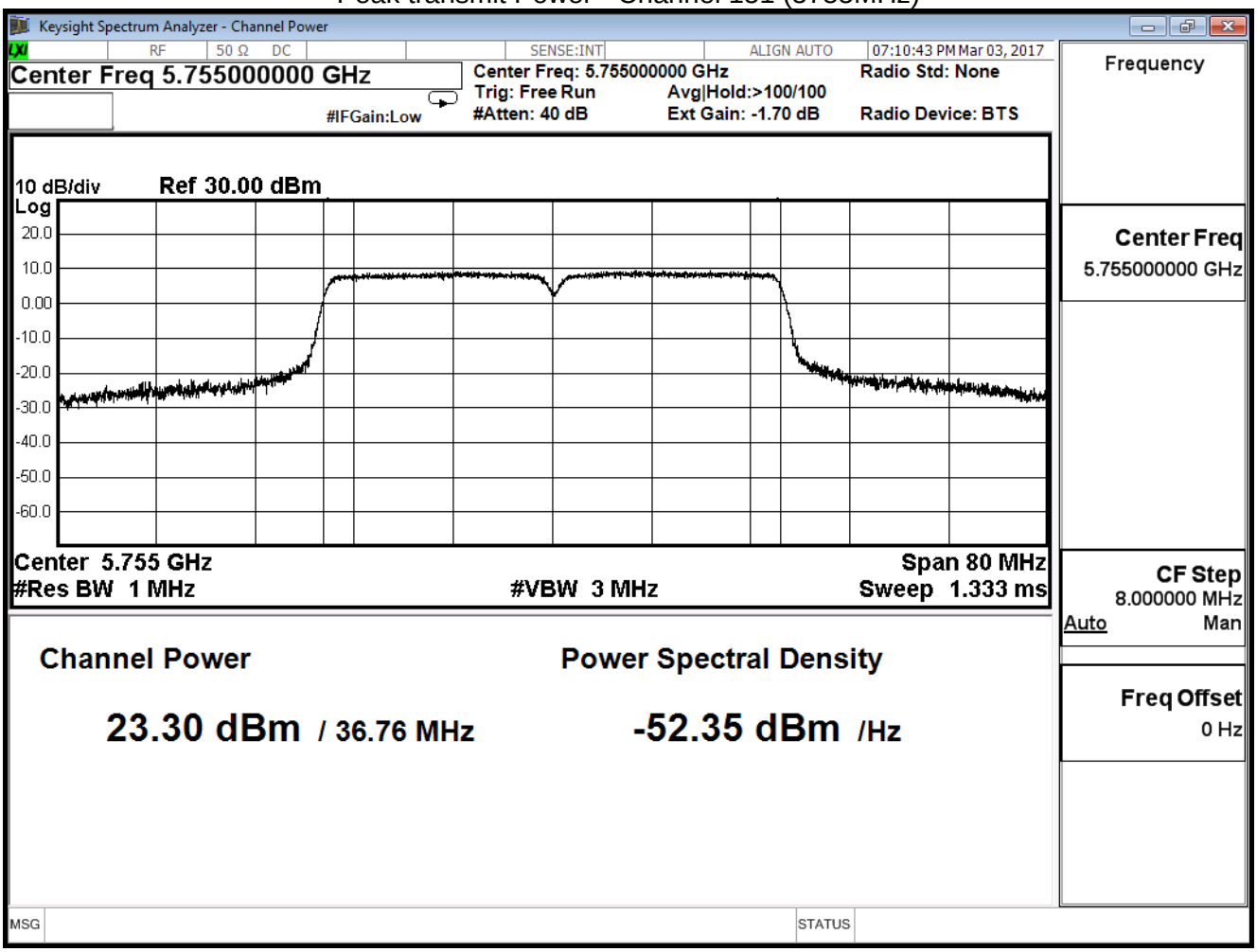
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
151	5755	23.300	--	--	--	--	--	--	--	≤29.38dBm
159	5795	23.350	23.300	23.180	23.010	22.900	22.760	22.550	22.380	

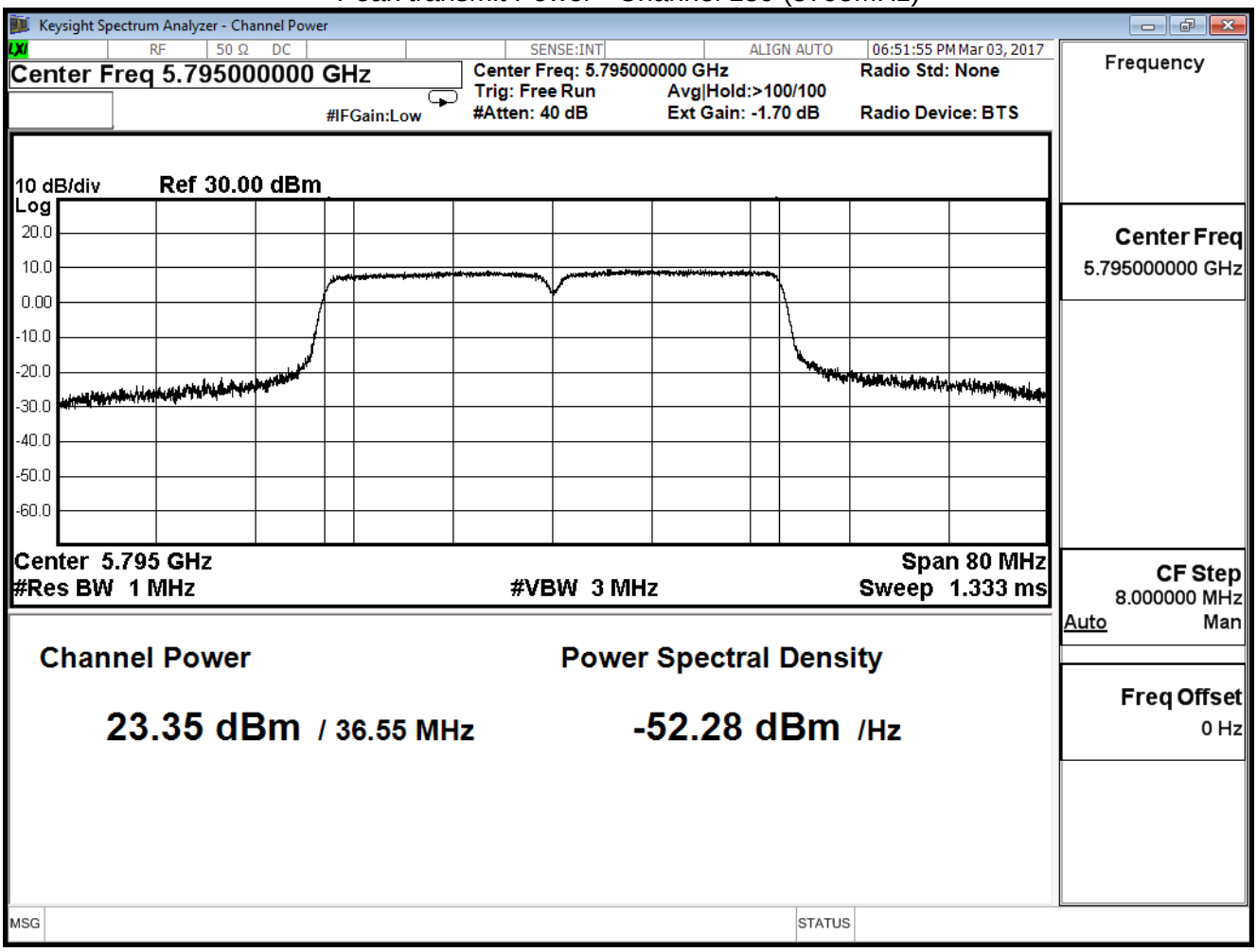
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.280	≤29.38
159	5795	23.360	≤29.38

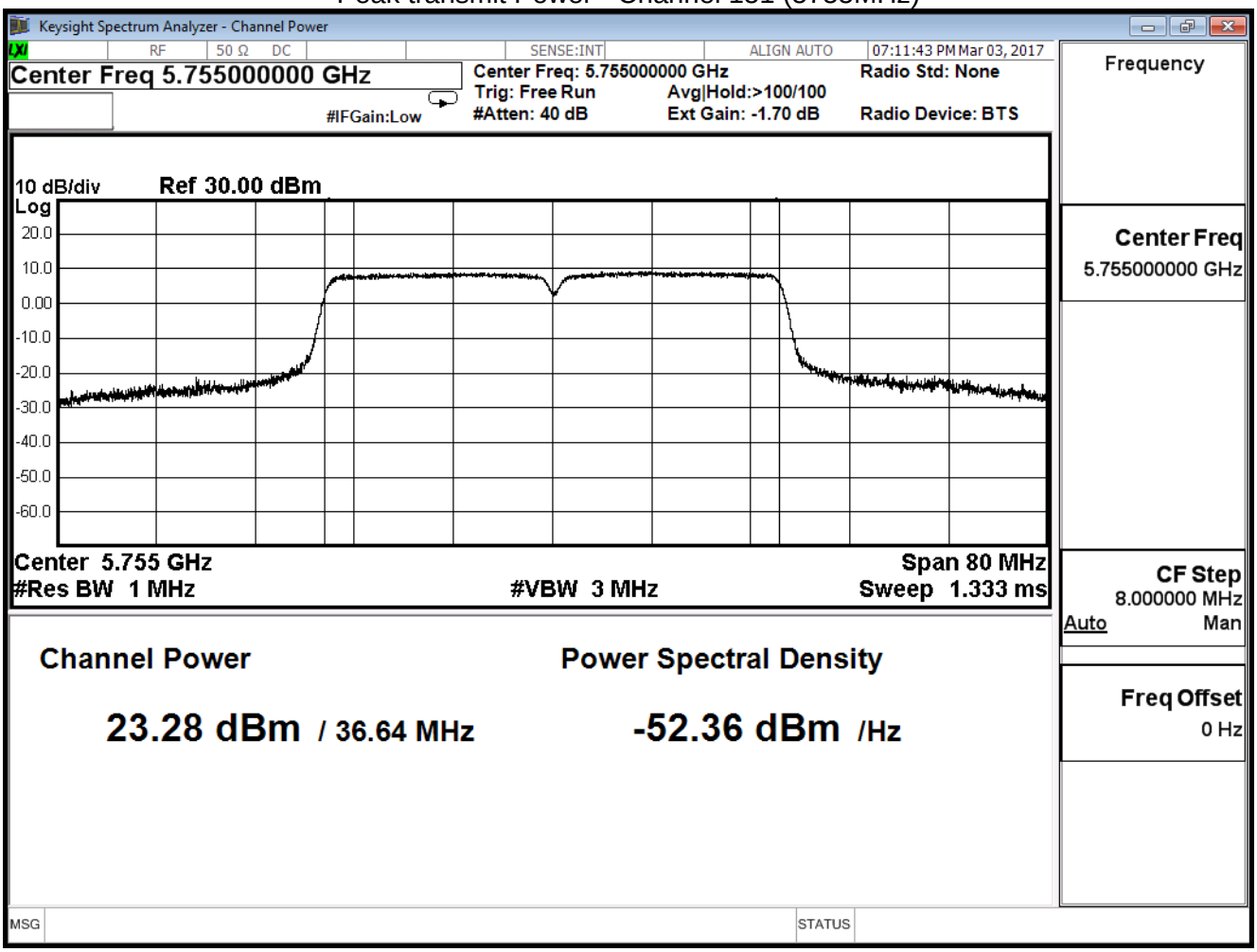
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
151	5755	23.280	--	--	--	--	--	--	--	≤29.38dBm
159	5795	23.360	22.300	22.110	22.050	21.900	21.780	21.650	21.550	

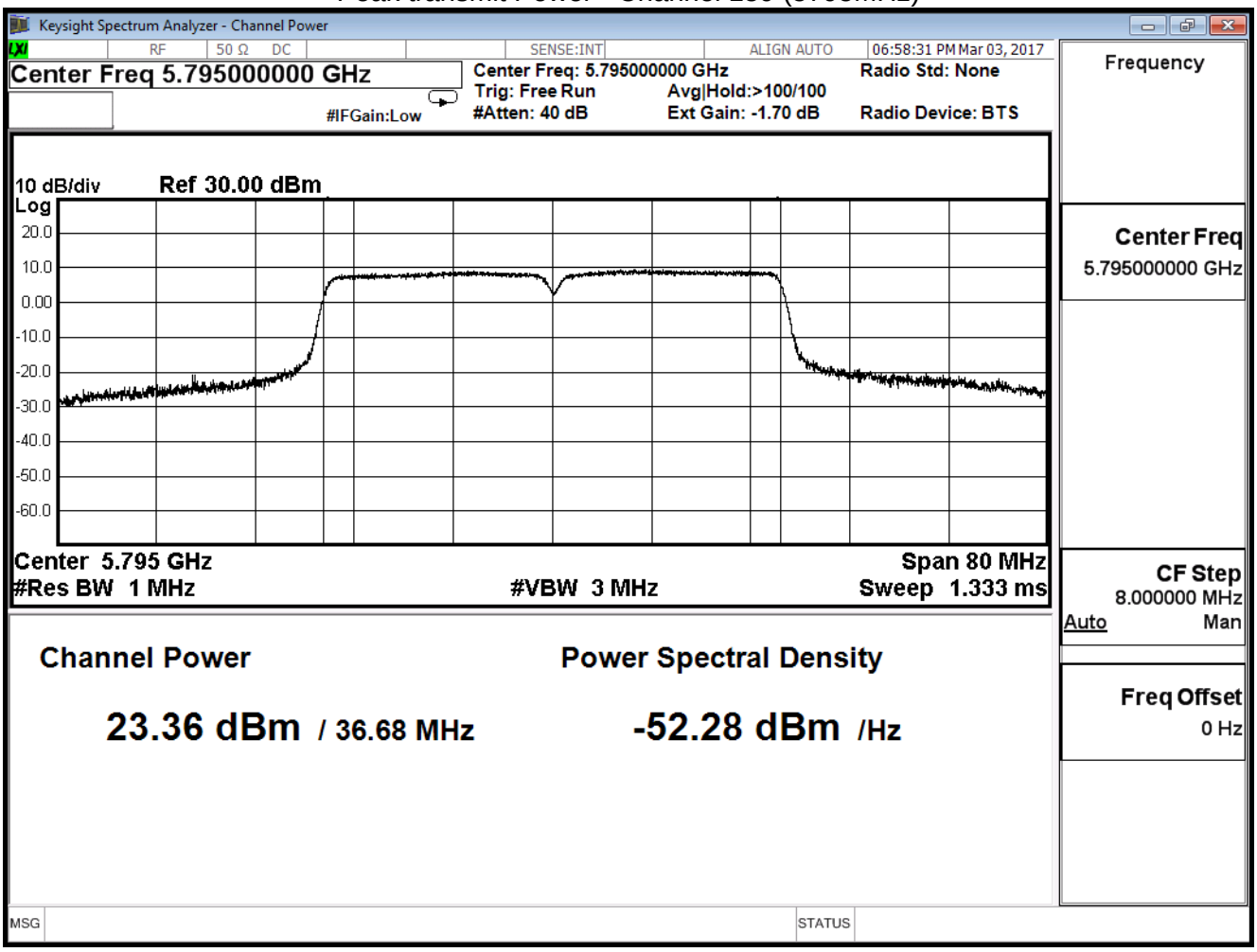
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11n 40MHz(ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.250	≤29.38
159	5795	23.310	≤29.38

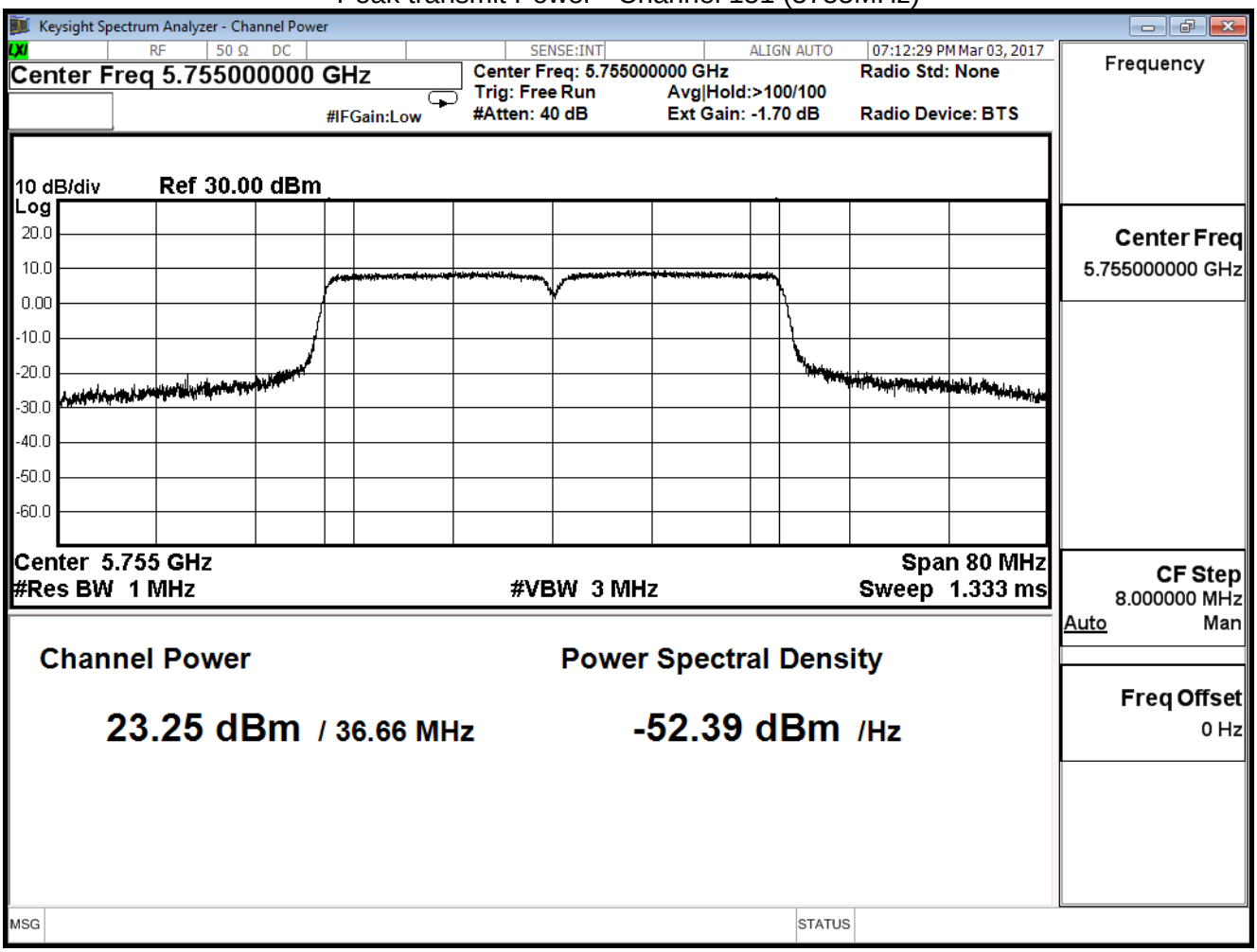
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
151	5755	23.250	--	--	--	--	--	--	--	≤29.38dBm
159	5795	23.310	23.110	23.050	22.920	22.760	22.620	22.550	22.330	

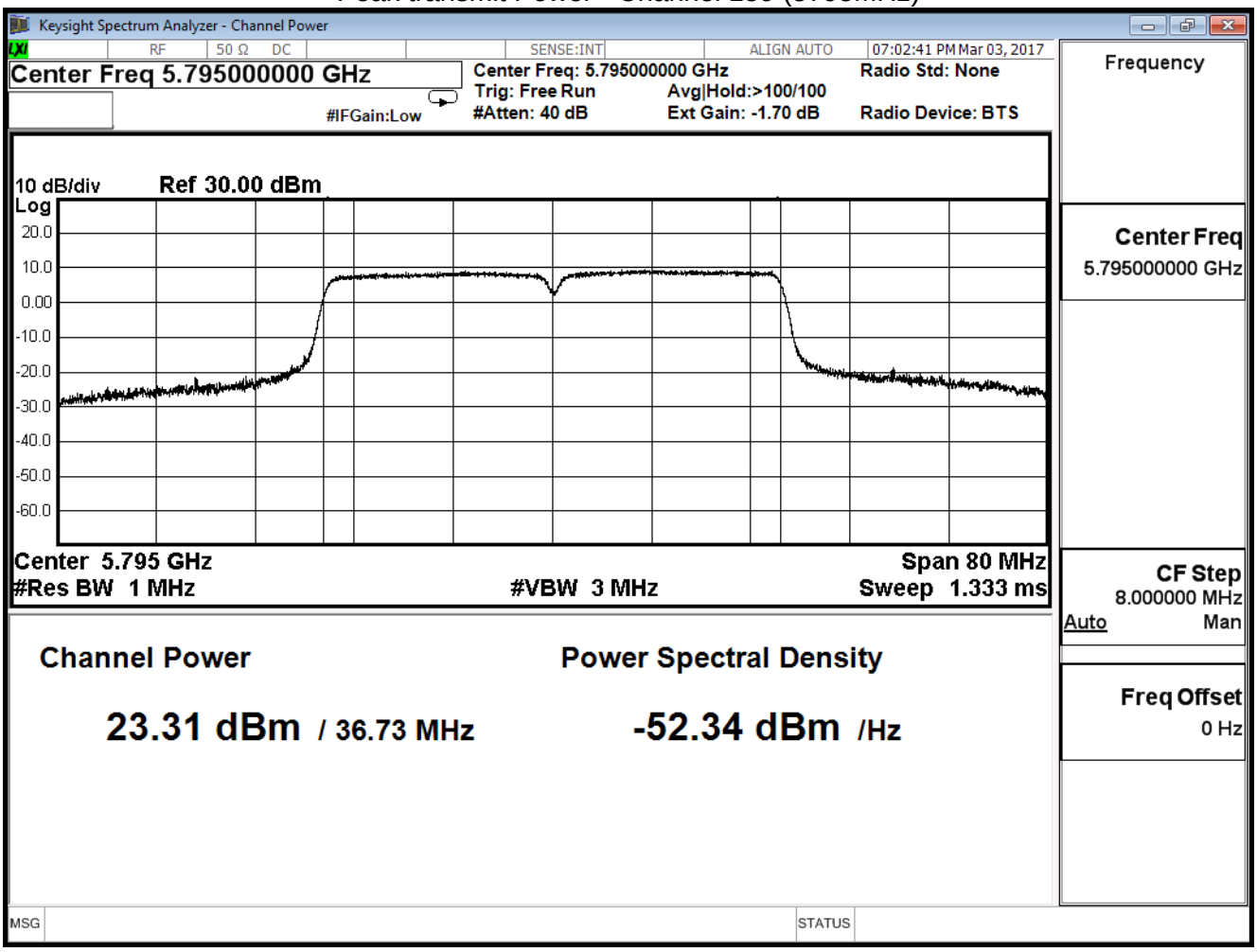
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11n 40MHz(ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	23.220	≤29.38
159	5795	23.320	≤29.38

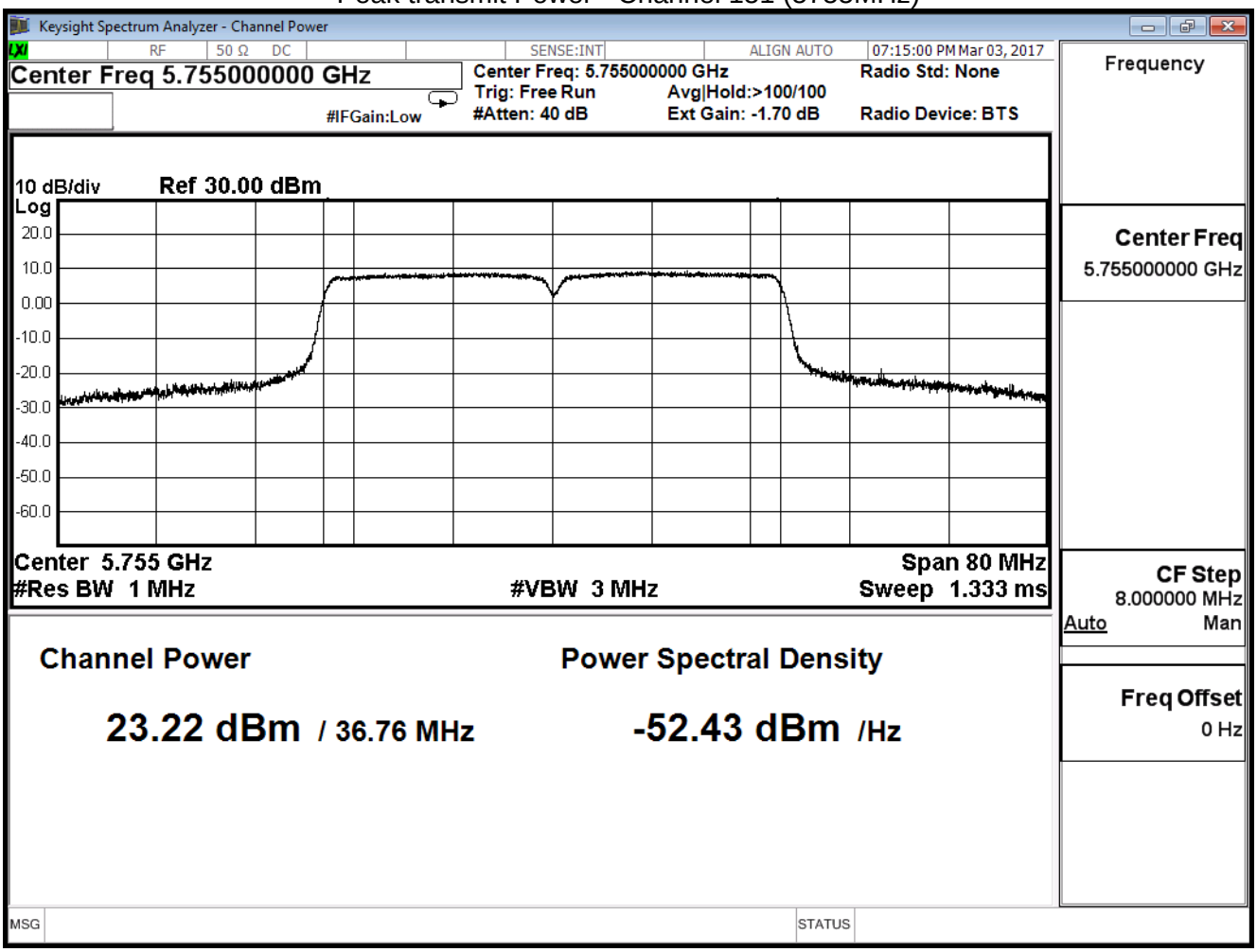
The worst emission of data rate is MCS 0

Channel No	Frequency (MHz)	MCS Index								Required Limit
		0	1	2	3	4	5	6	7	
151	5755	23.220	--	--	--	--	--	--	--	≤29.38dBm
159	5795	23.320	23.110	23.000	22.900	22.760	22.620	22.550	22.310	

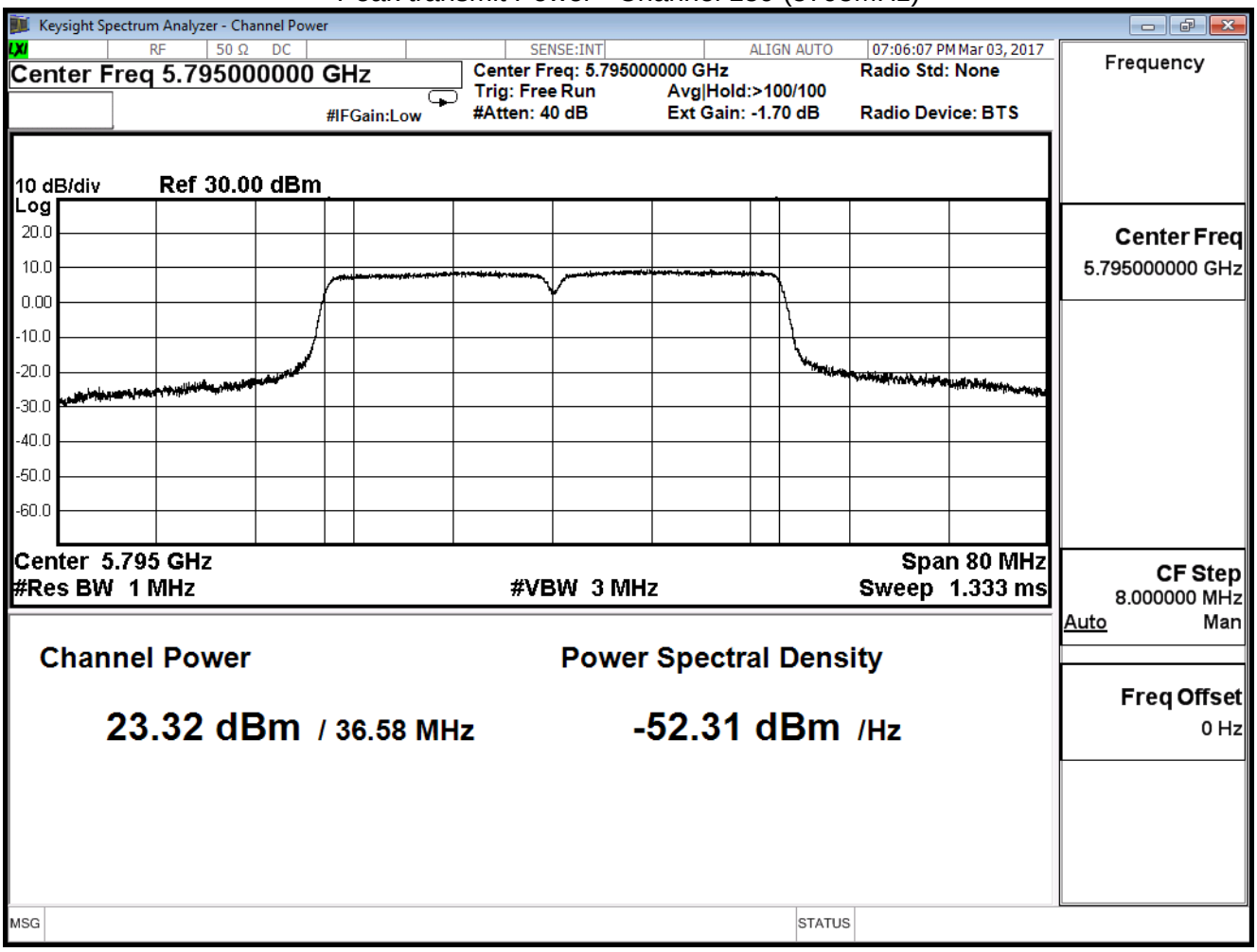
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 151 (5755MHz)



Peak transmit Power - Channel 159 (5795MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11n 40MHz(ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
151	5755	29.283	≤29.38
159	5795	29.356	≤29.38

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.320	≤29.38

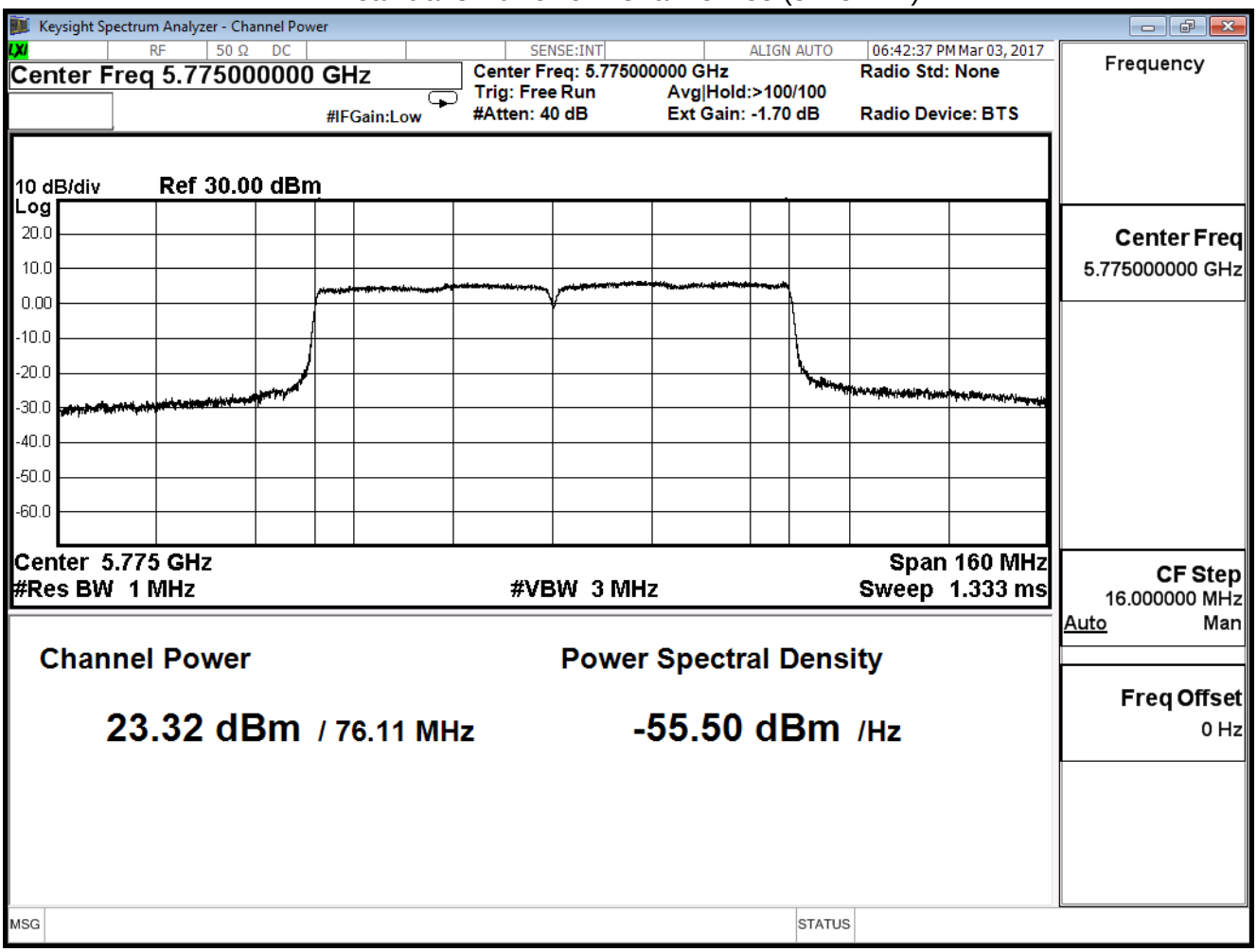
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.320	23.110	23.010	22.870	22.660	22.510	22.380	22.210	22.010	21.920	≤29.38dBm

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.280	≤29.38

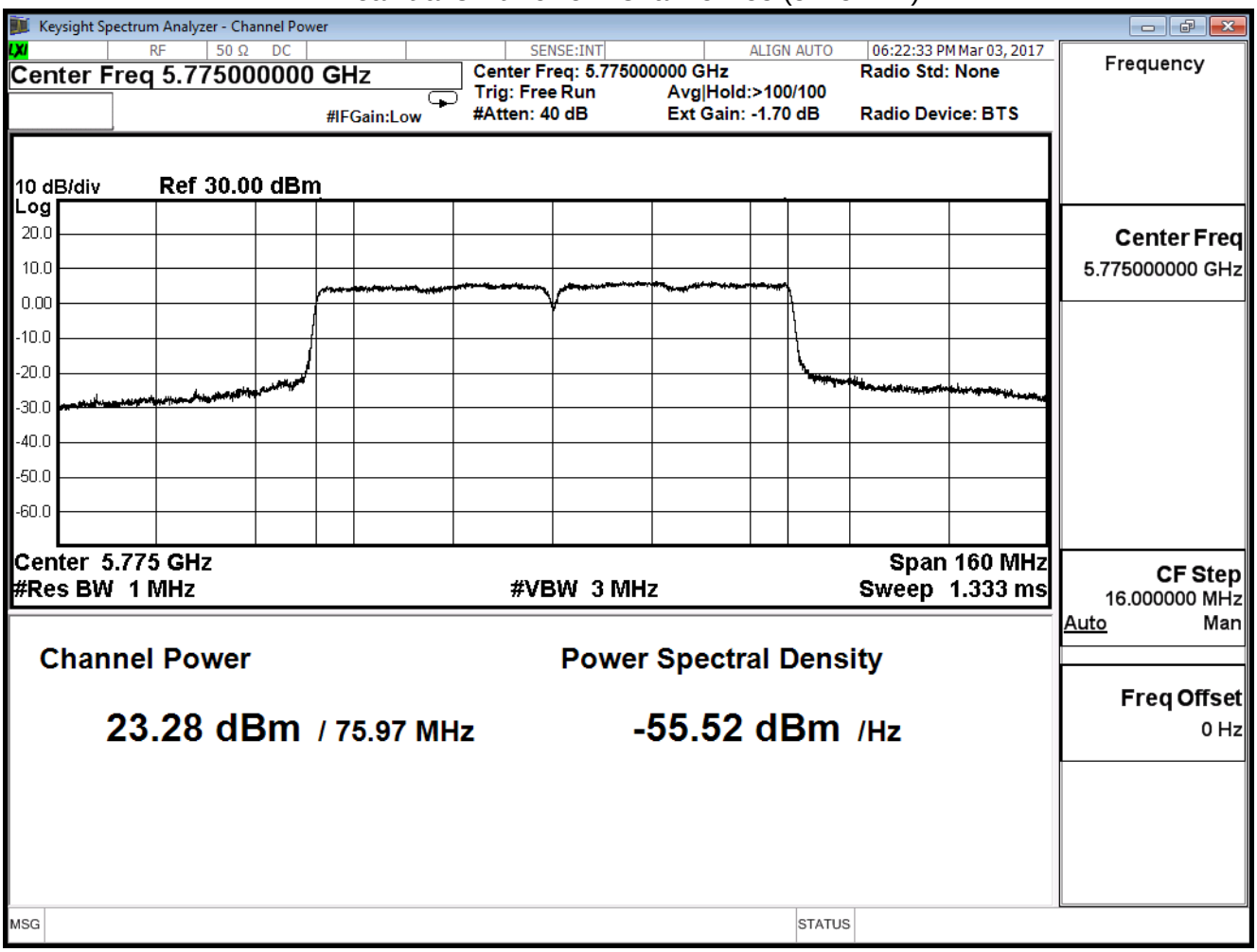
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.280	23.110	23.000	22.880	22.550	22.310	22.110	22.000	21.860	21.700	≤29.38dBm

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11ac 80MHz (ANT 2)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.310	≤29.38

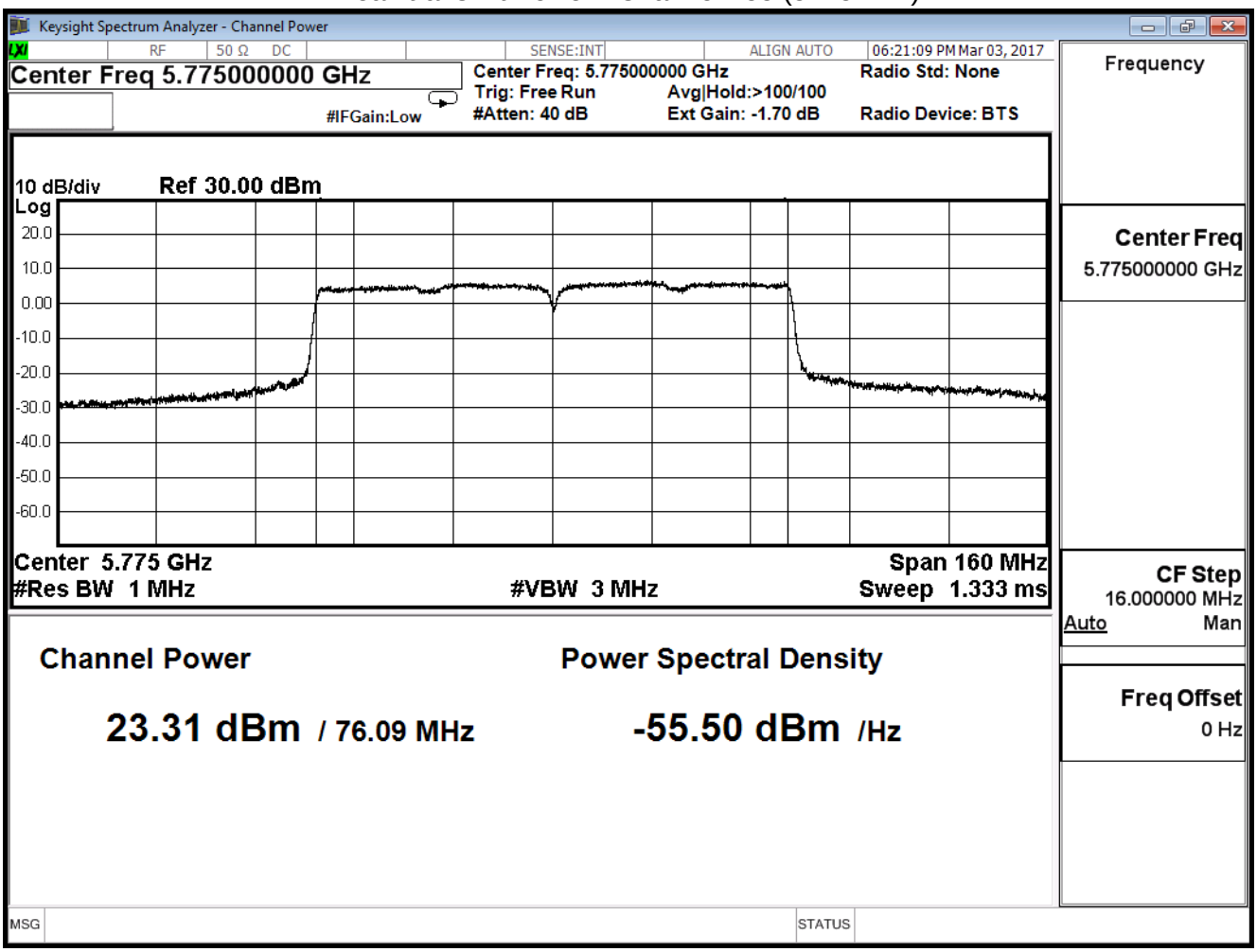
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	23.310	23.080	23.000	22.880	22.710	22.580	22.430	22.180	22.010	21.850	≤29.38dBm

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11ac 80MHz (ANT 3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	23.290	≤29.38

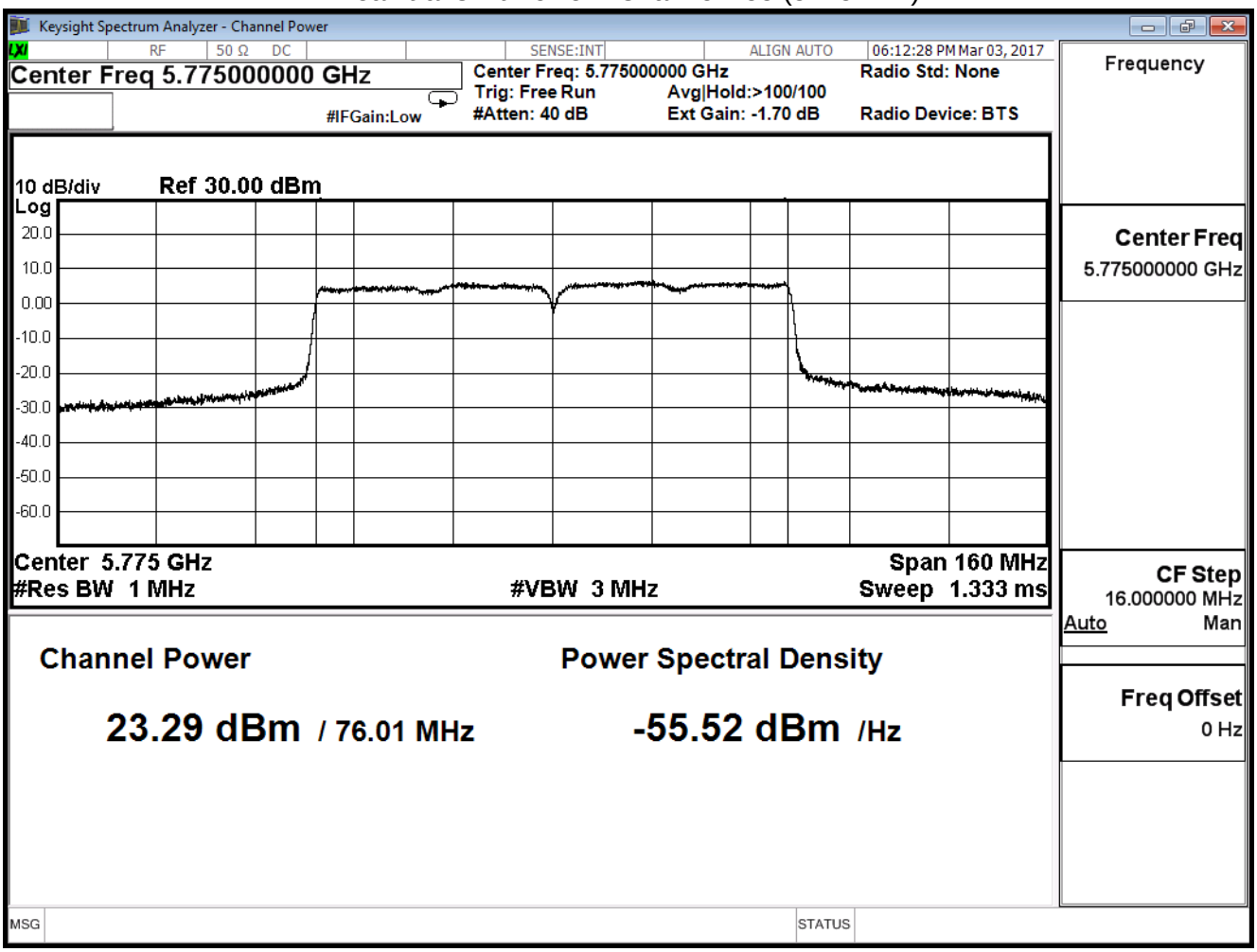
The worst emission of data rate is MCS0

Channel No	Frequency (MHz)	MCS Index										Required Limit
		0	1	2	3	4	5	6	7	8	9	
155	5775	22.290	23.110	23.010	22.880	22.710	22.580	22.110	21.870	21.660	21.210	≤29.38dBm

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

Peak transmit Power - Channel 155 (5775MHz)



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Transmit Output		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/03	Test Site	SR10-H

IEEE802.11ac 80MHz (ANT 0+1+2+3)

Channel No.	Frequency (MHz)	Output Power (dBm)	Required Limit (dBm)
155	5775	29.321	≤29.38

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

5. Peak Power Spectrum Density

5.1. Test Equipment

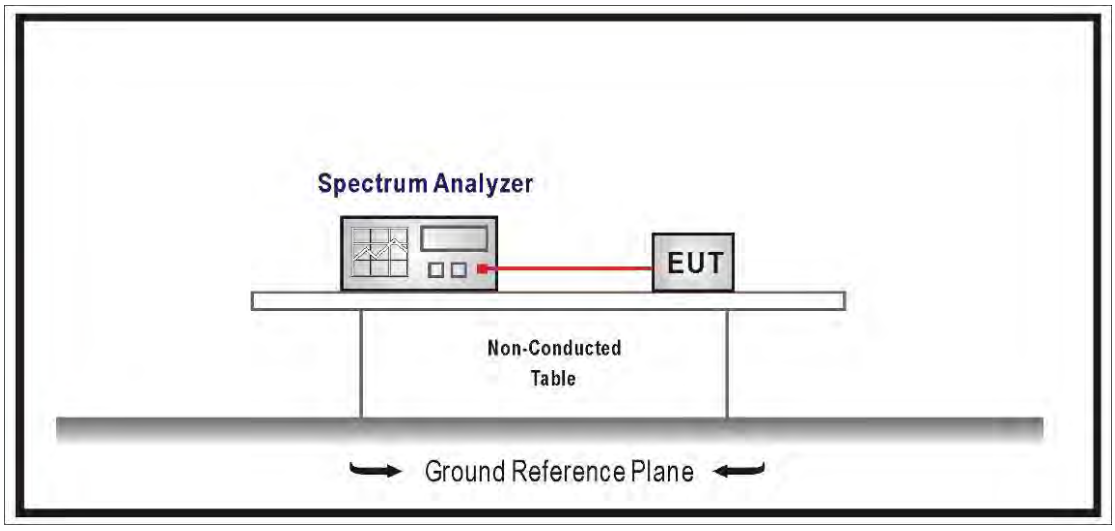
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR10-H

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A	US47140172	2017/08/08

Note: All equipments that need to calibrate are with calibration period of 1 year.

5.2. Test Setup



5.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi..

5.4. Test Procedure

The EUT was setup to ANSI C63.10: 2013; tested to U-NII test procedure of KDB 789033.D02 V01r03 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

5.5. Uncertainty

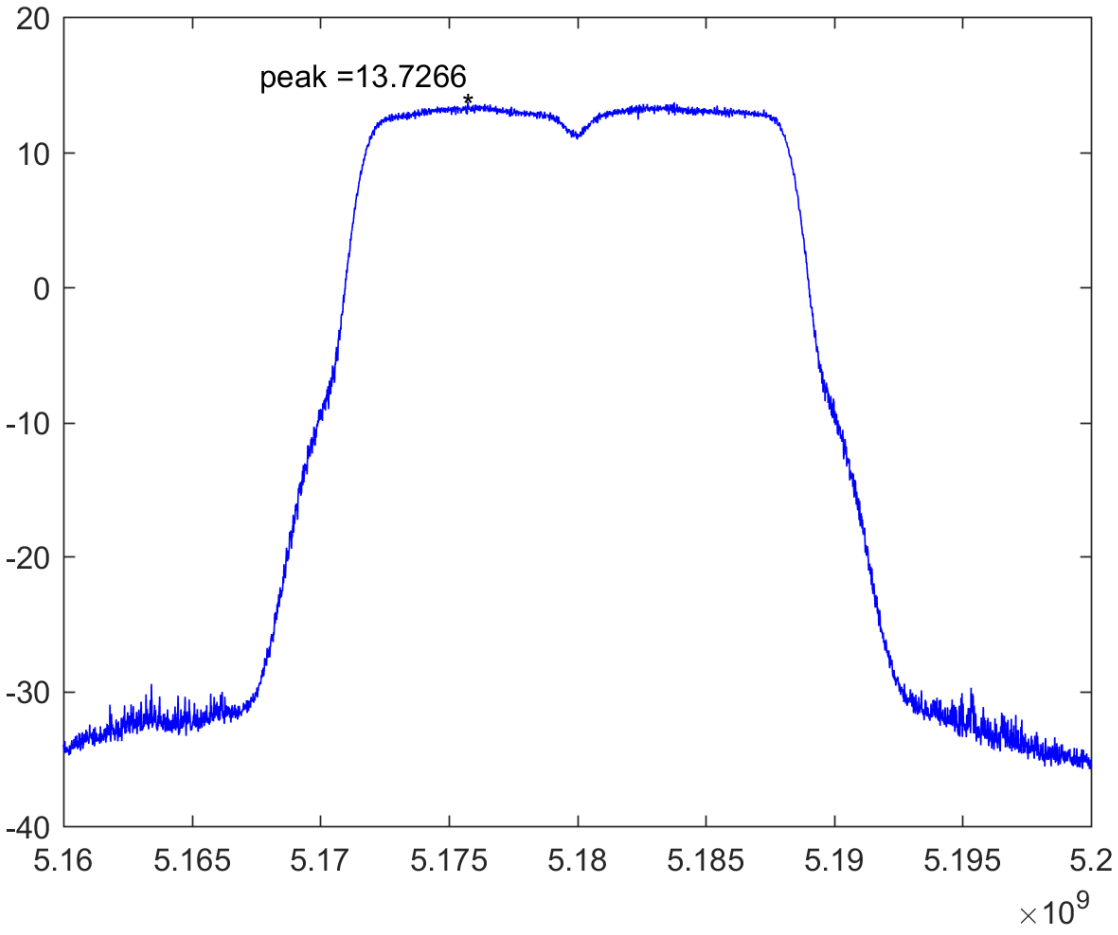
The measurement uncertainty is defined as ± 1.27 dB

5.6. Test Result

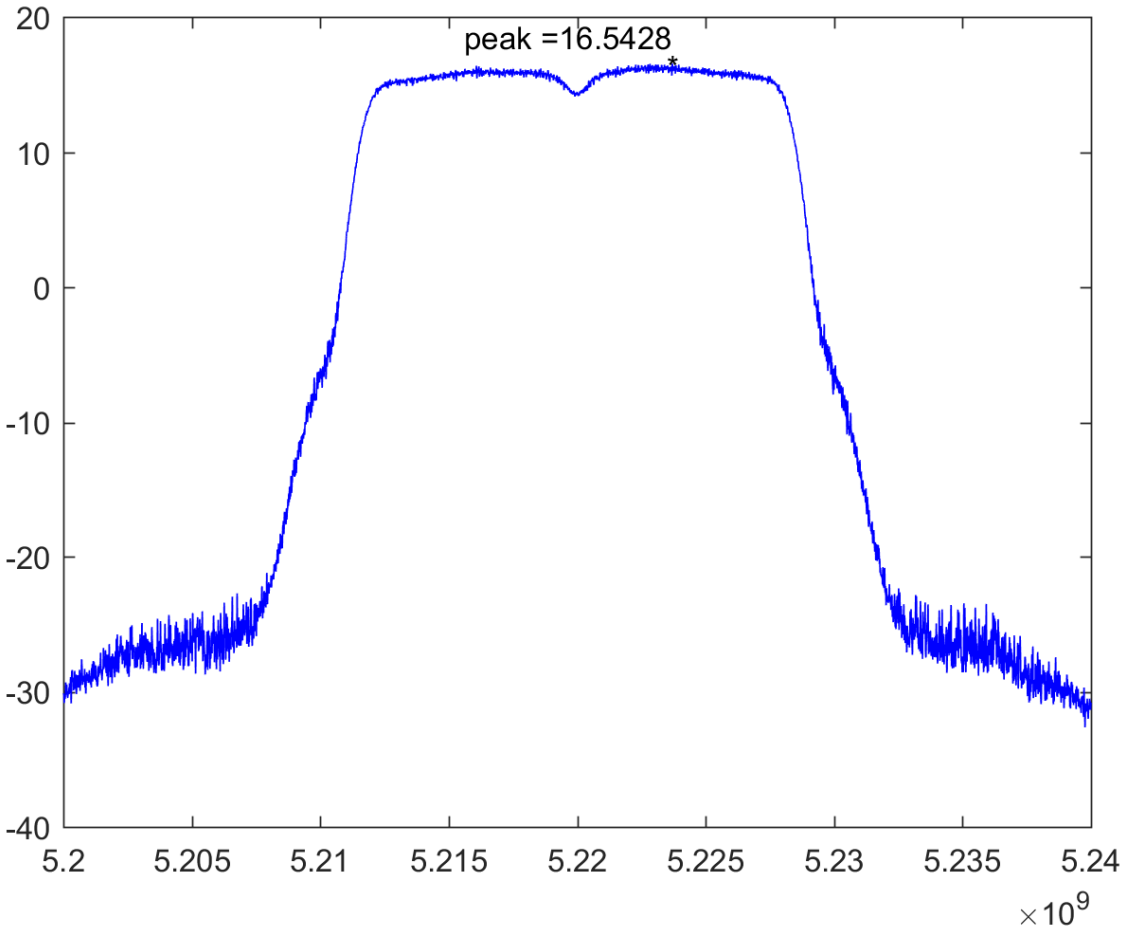
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11a (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	13.727	≦16.679	Pass
44	5220	16.543	≦16.679	Pass
48	5240	16.664	≦16.679	Pass

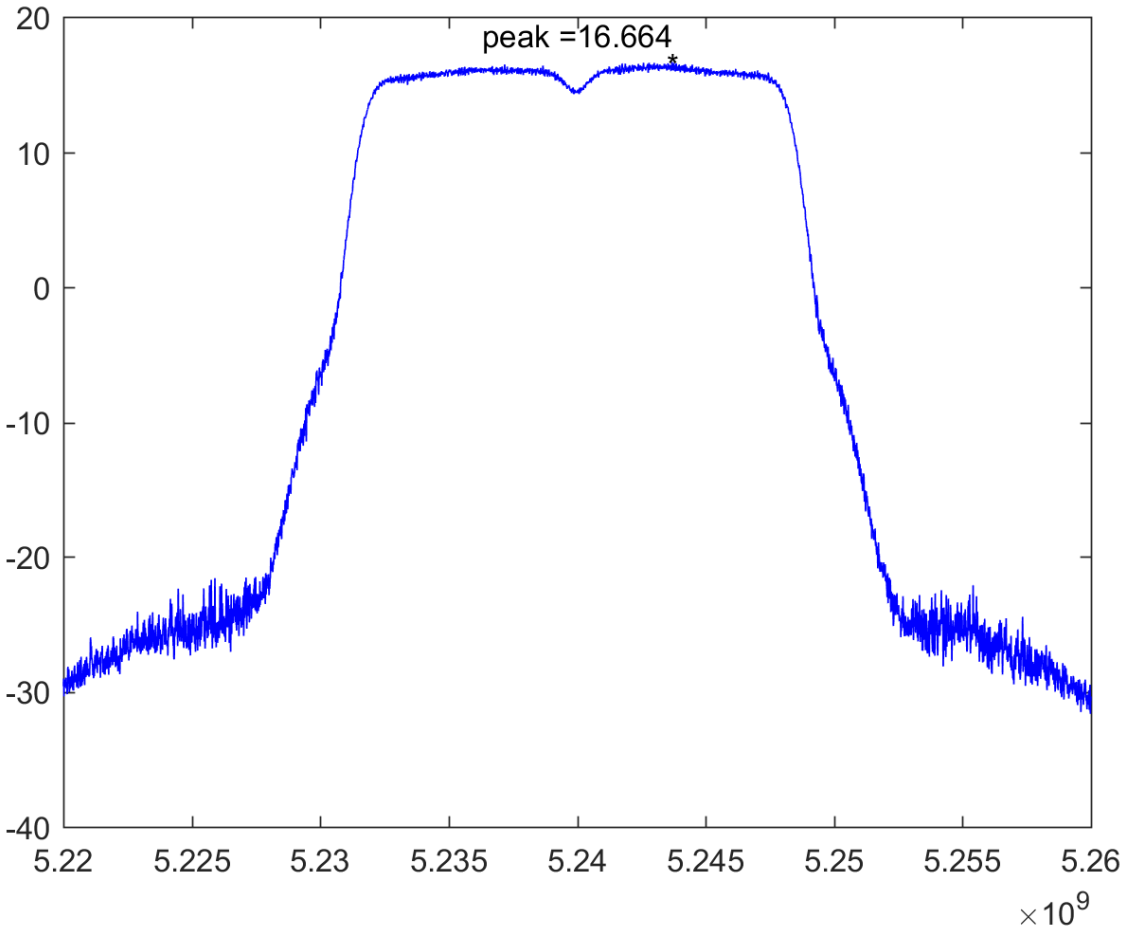
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

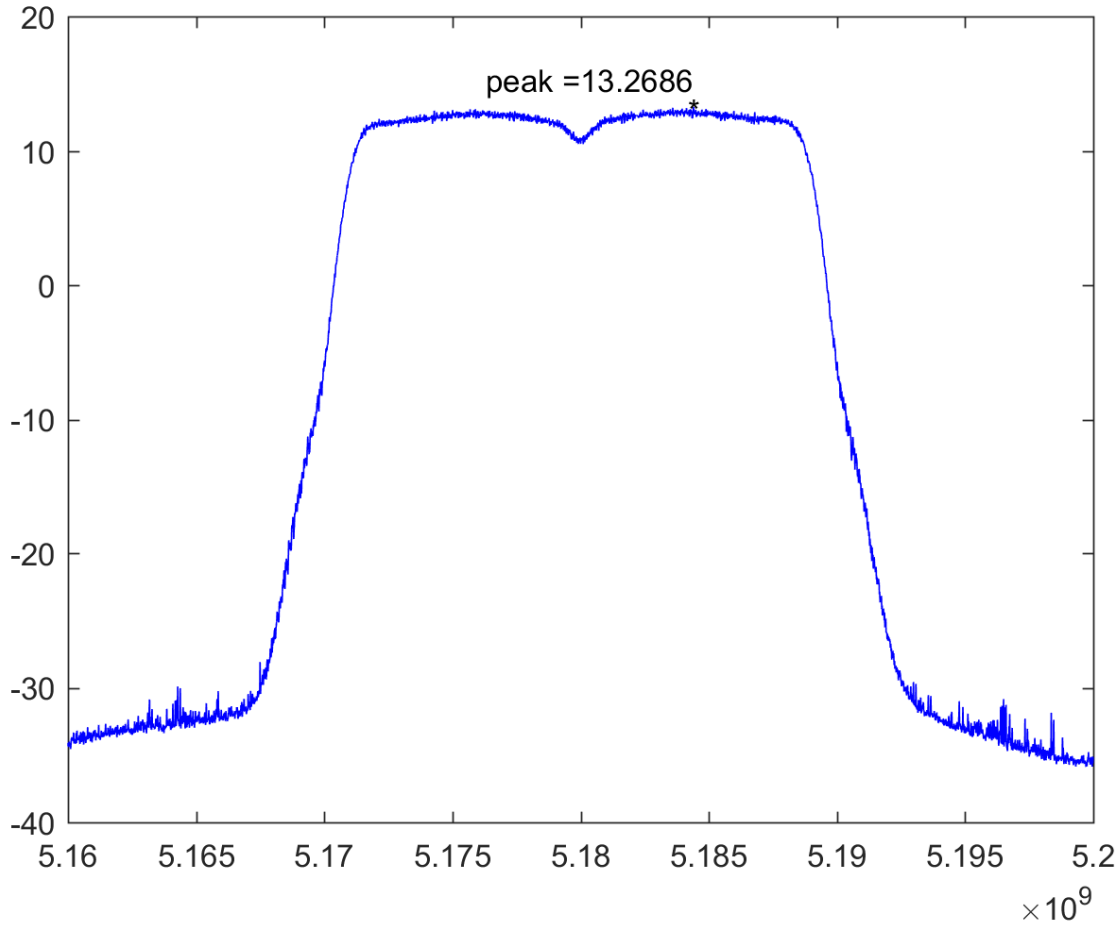


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

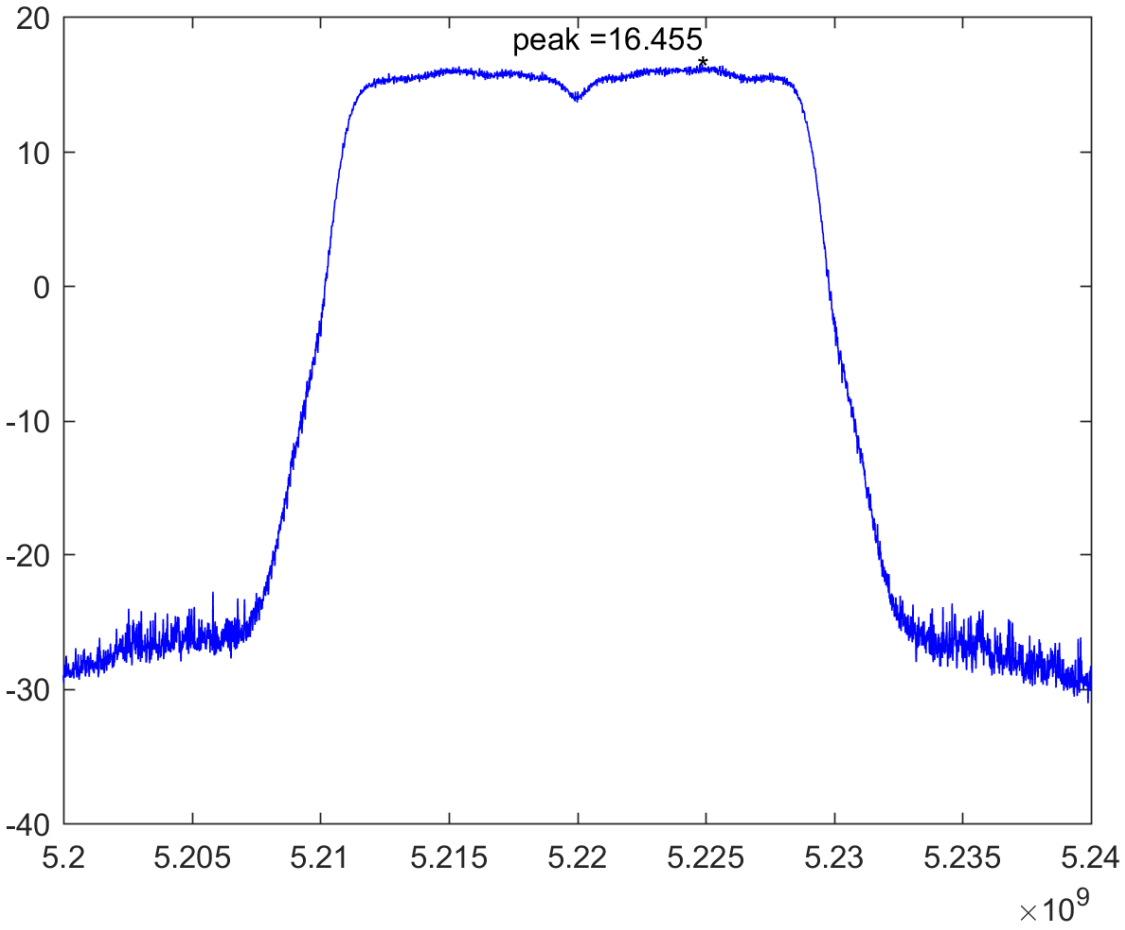
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	13.269	≦15.24	Pass
44	5220	16.455	≦15.24	Pass
48	5240	16.611	≦15.24	Pass

Array Gain: = 7.76 dBi
Limit=17-(7.76dBi-6dBi)=15.24dBi

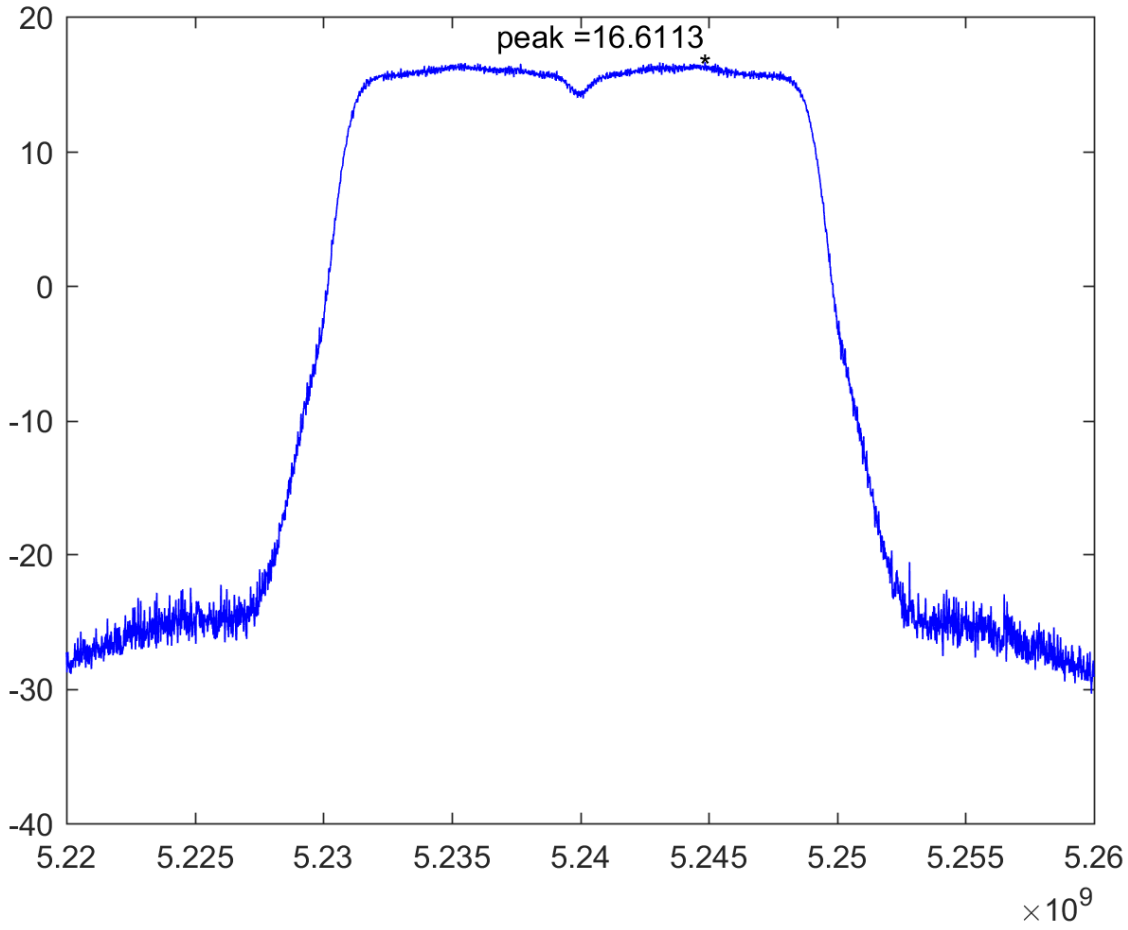
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

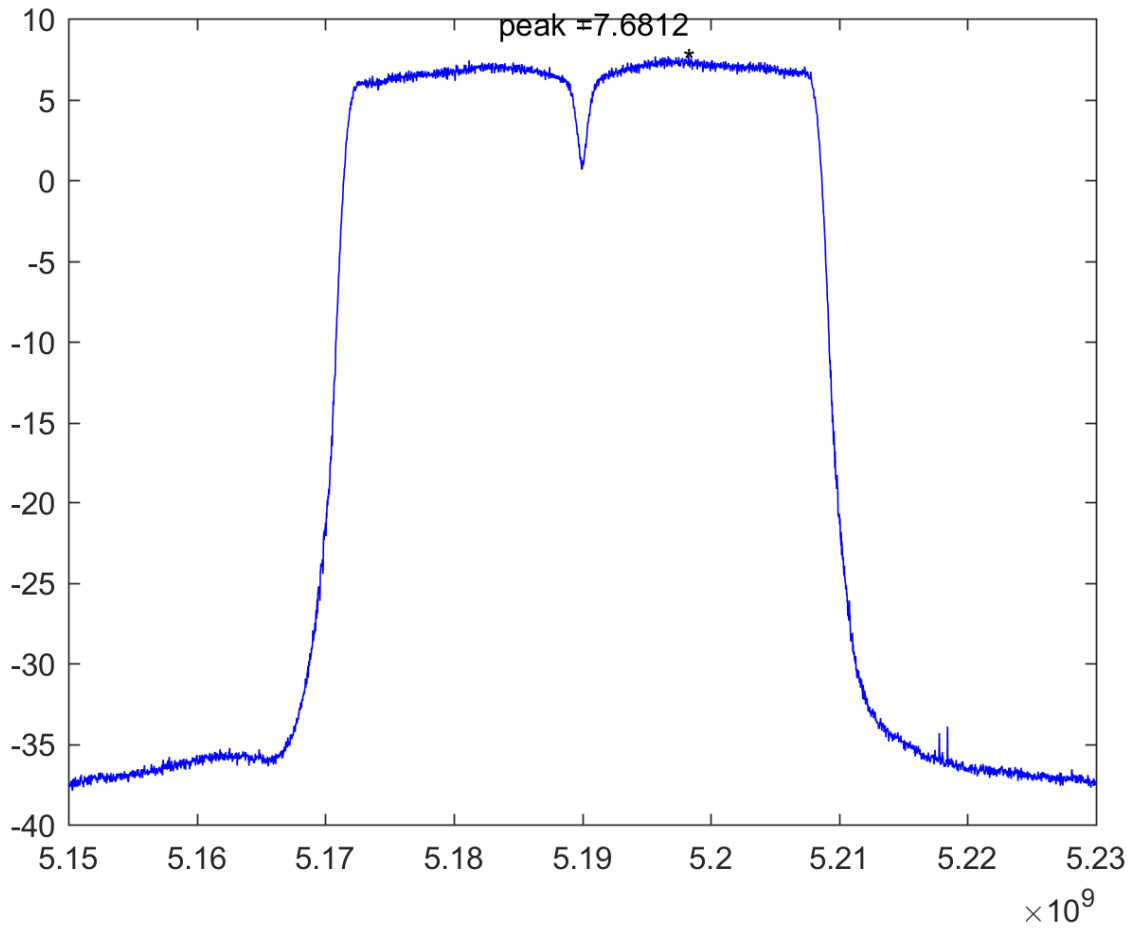


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

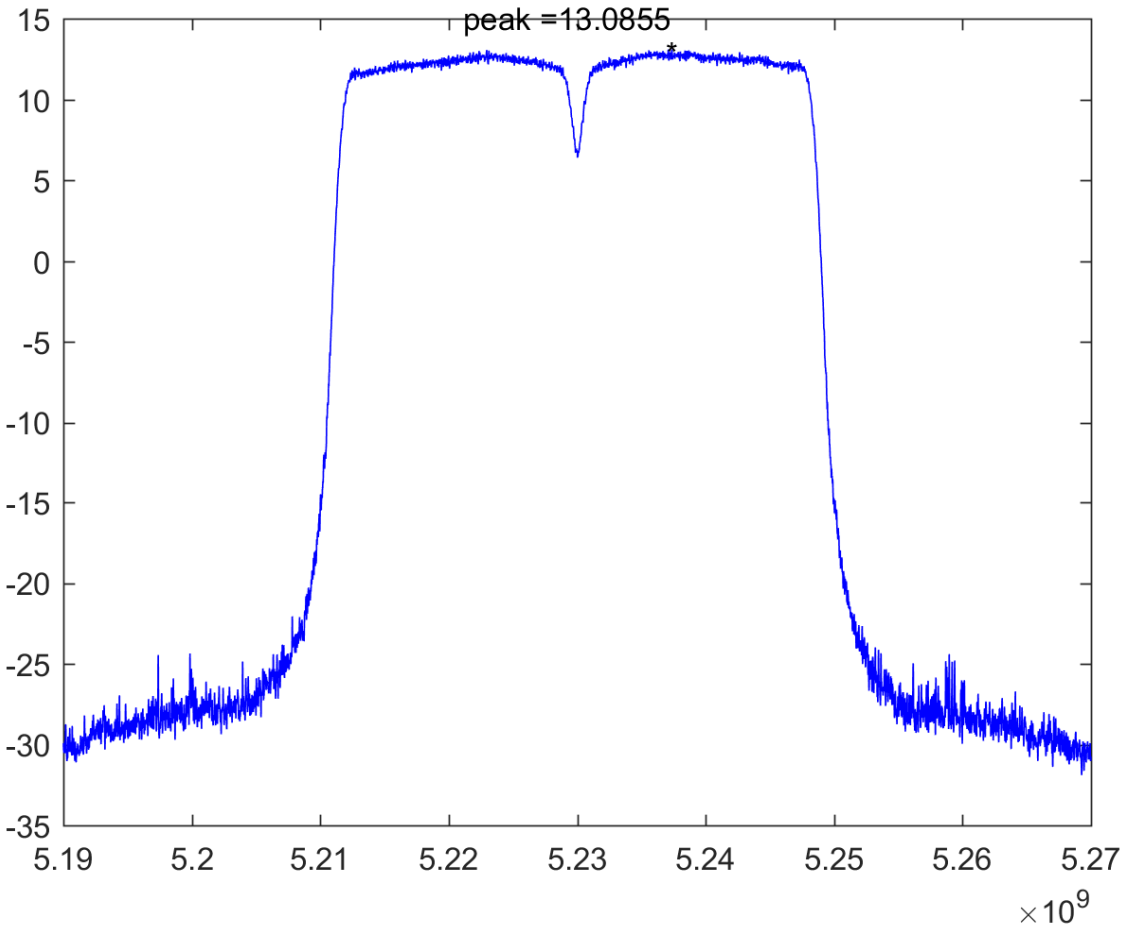
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	7.681	≦15.24	Pass
46	5230	13.086	≦15.24	Pass

Array Gain: = 7.76 dBi
Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46

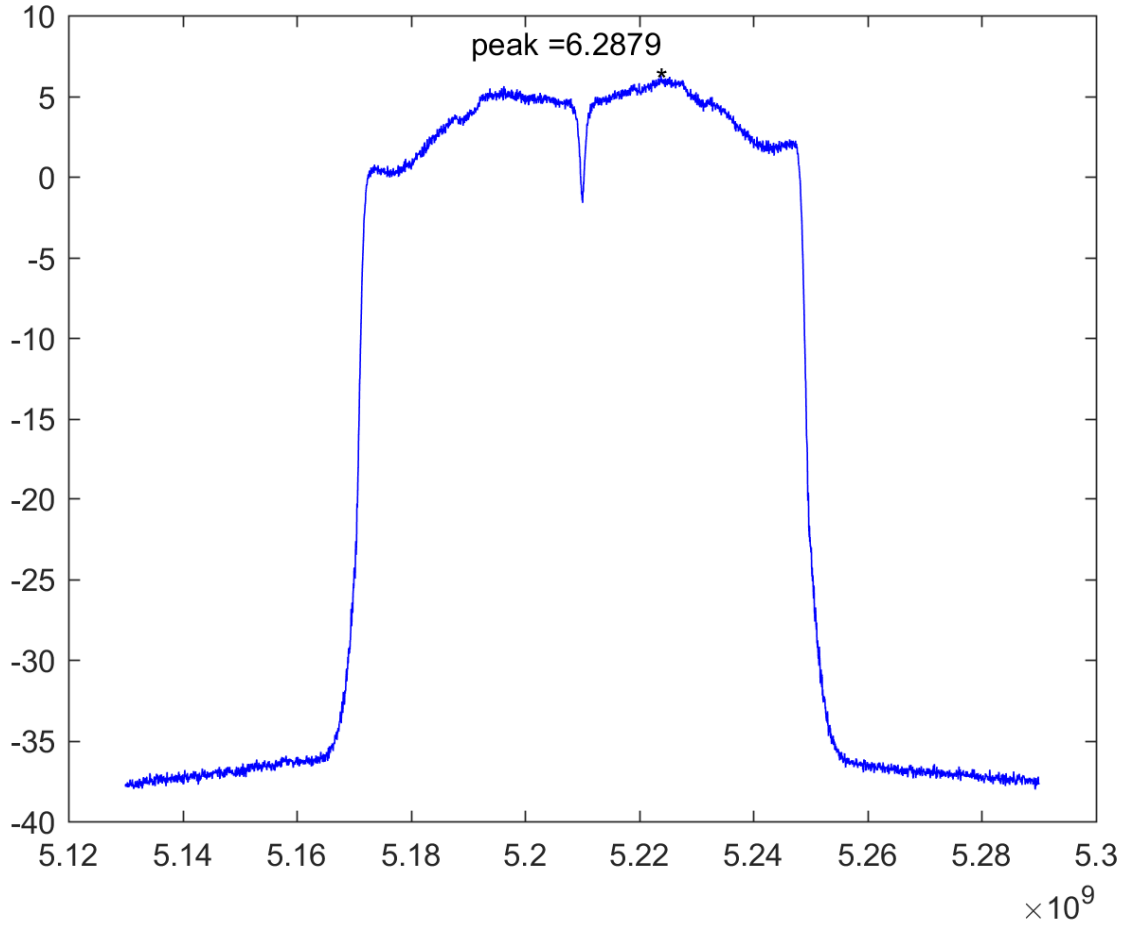


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx_ADP: AD890326010-2LF_ MIMO Mode (802.11 n20/40)		
Date of Test	2017/03/05	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	6.288	≦15.24	Pass

Array Gain: = 7.76 dBi
Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 42

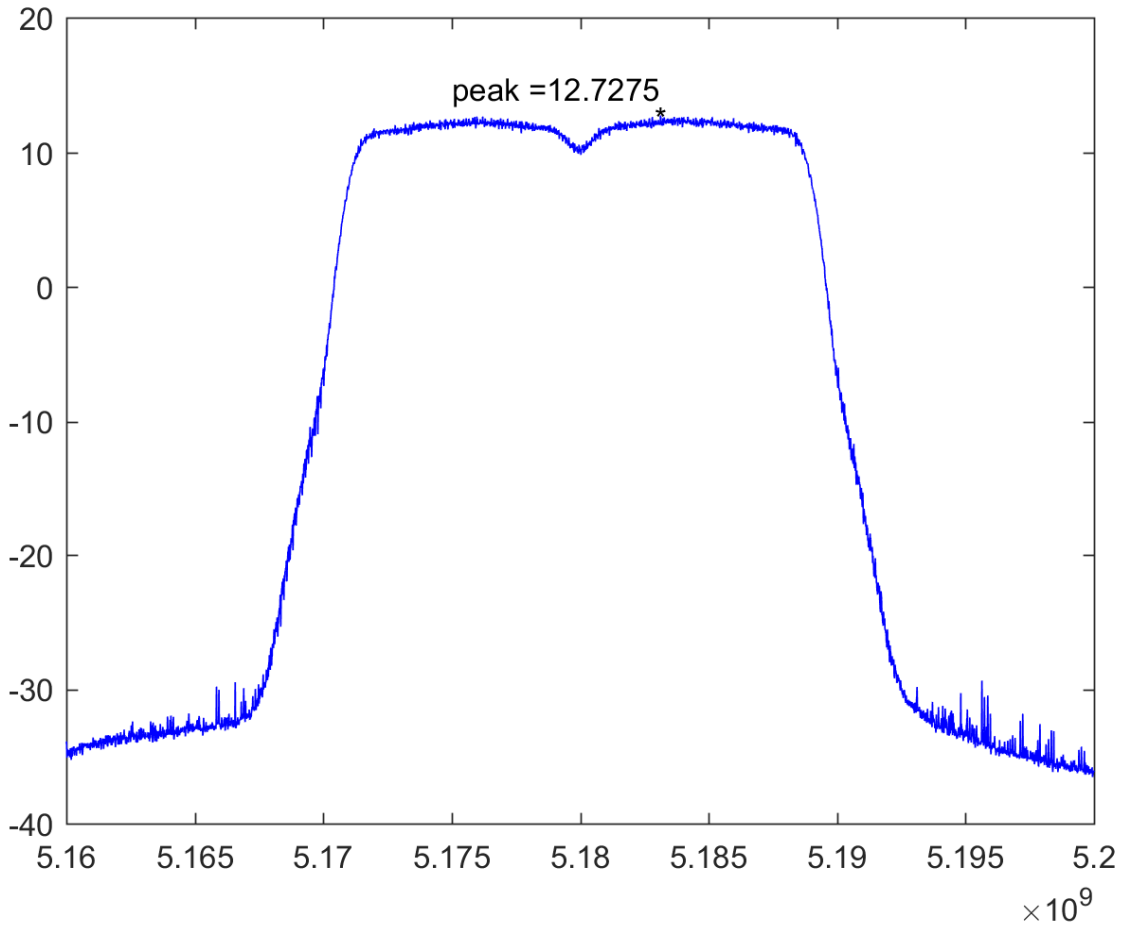


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

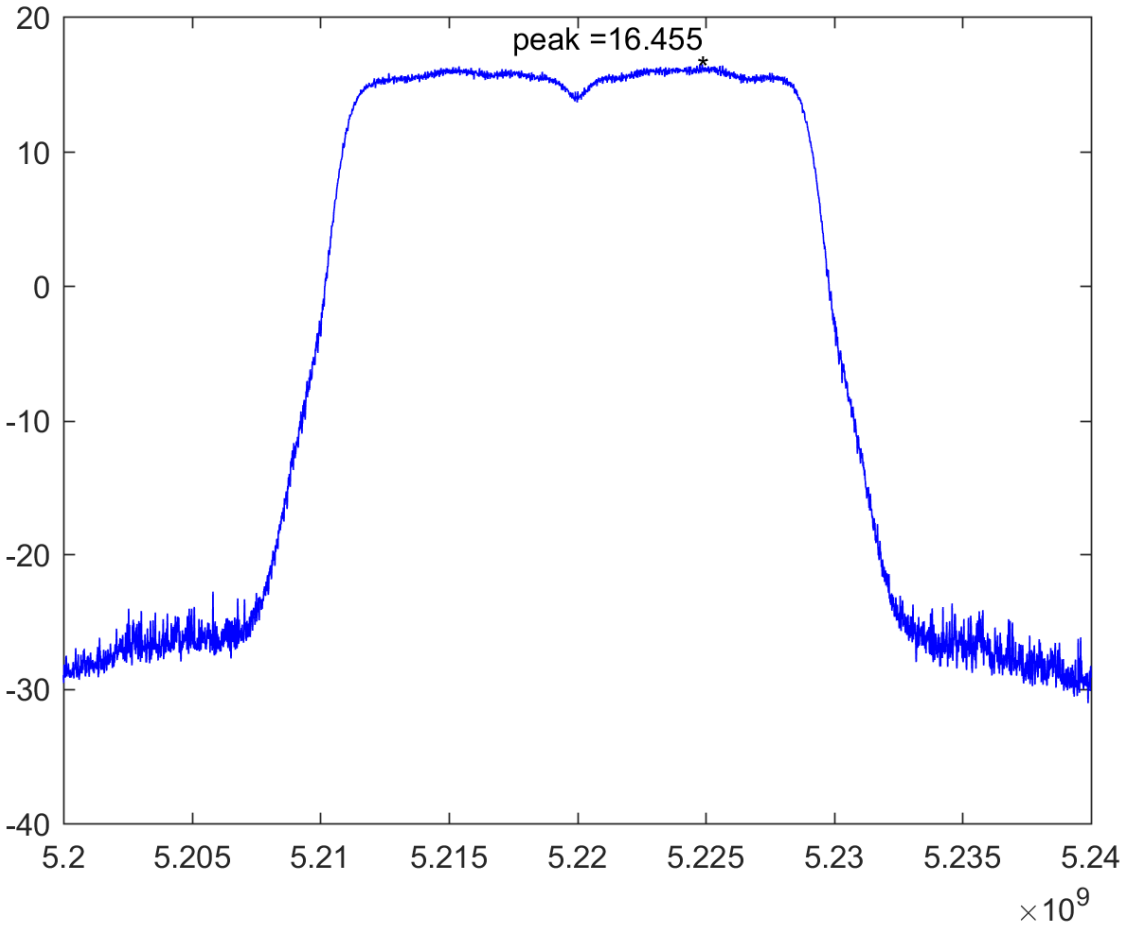
IEEE 802.11n(20MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
36	5180	12.728	≦15.24	Pass
44	5220	16.455	≦15.24	Pass
48	5240	16.611	≦15.24	Pass

Array Gain: = 7.76 dBi
Limit=17-(7.76dBi-6dBi)=15.24dBi

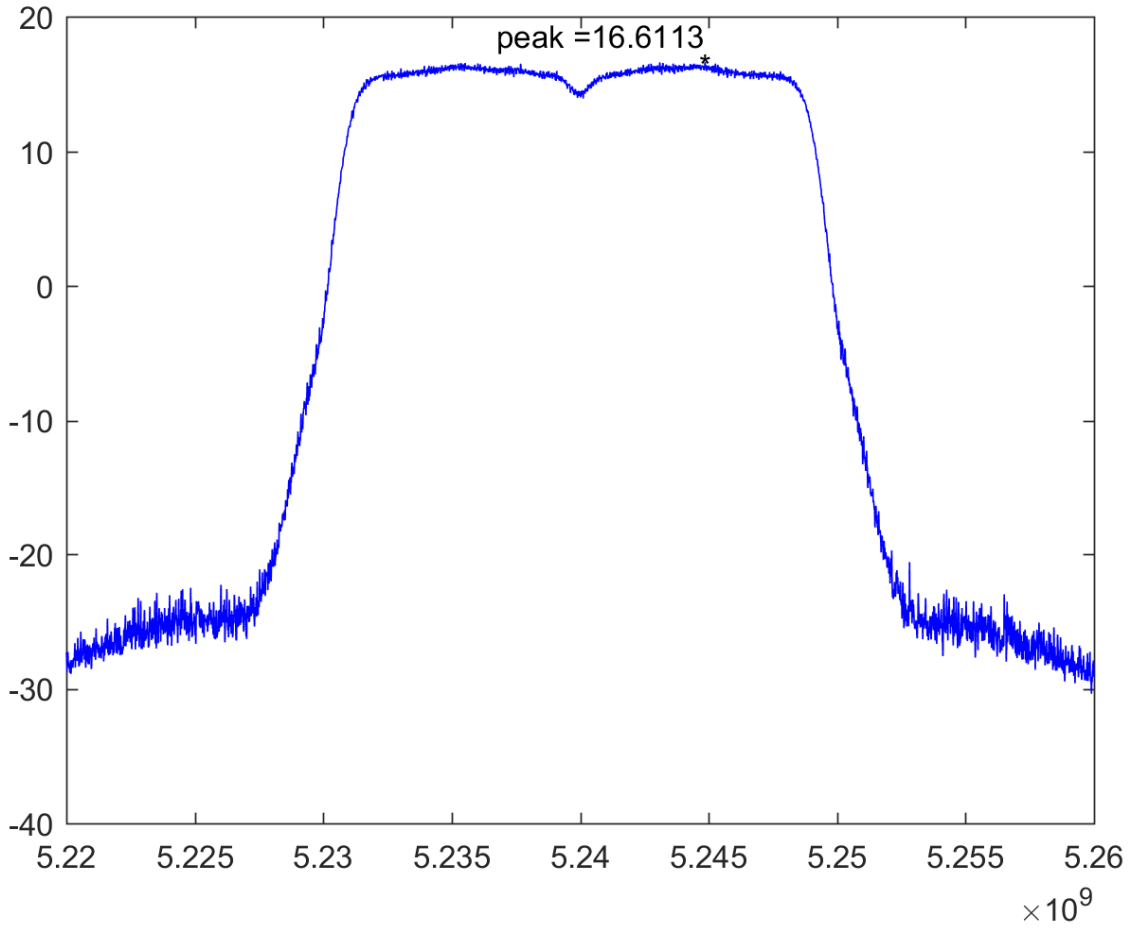
Peak Power Spectral Density – Channel 36



Peak Power Spectral Density – Channel 44



Peak Power Spectral Density – Channel 48

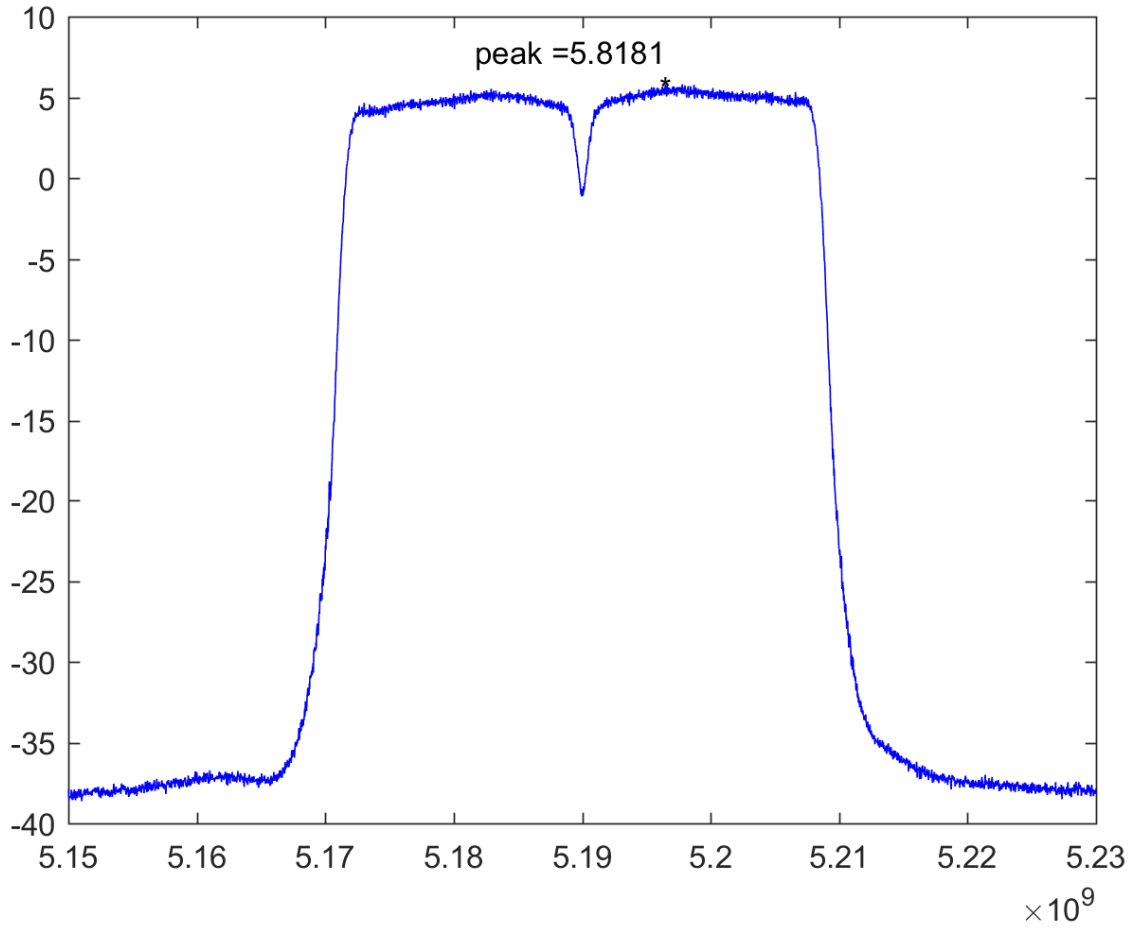


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

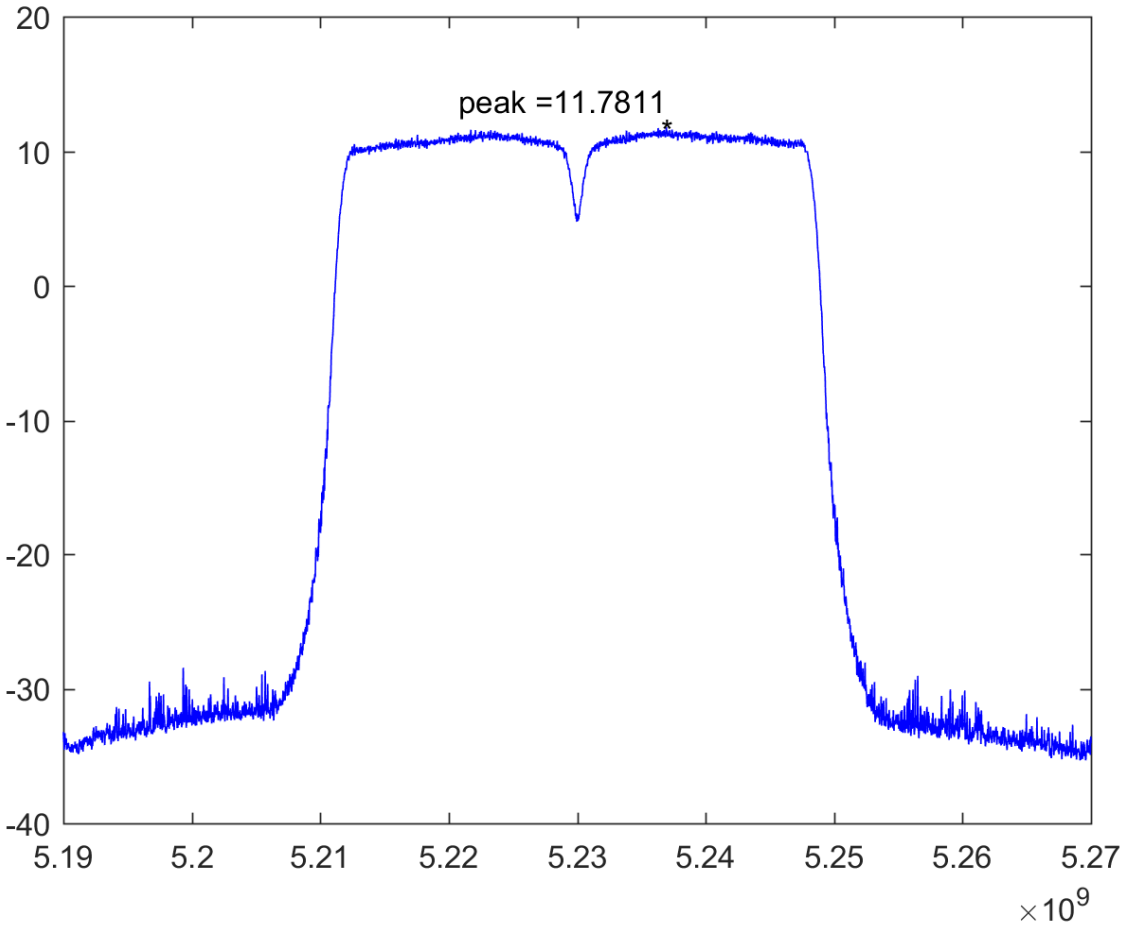
IEEE 802.11n(40MHz) (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
38	5190	5.818	≦15.24	Pass
46	5230	11.781	≦15.24	Pass

Array Gain: = 7.76 dBi
Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 38



Peak transmit Power - Channel 46

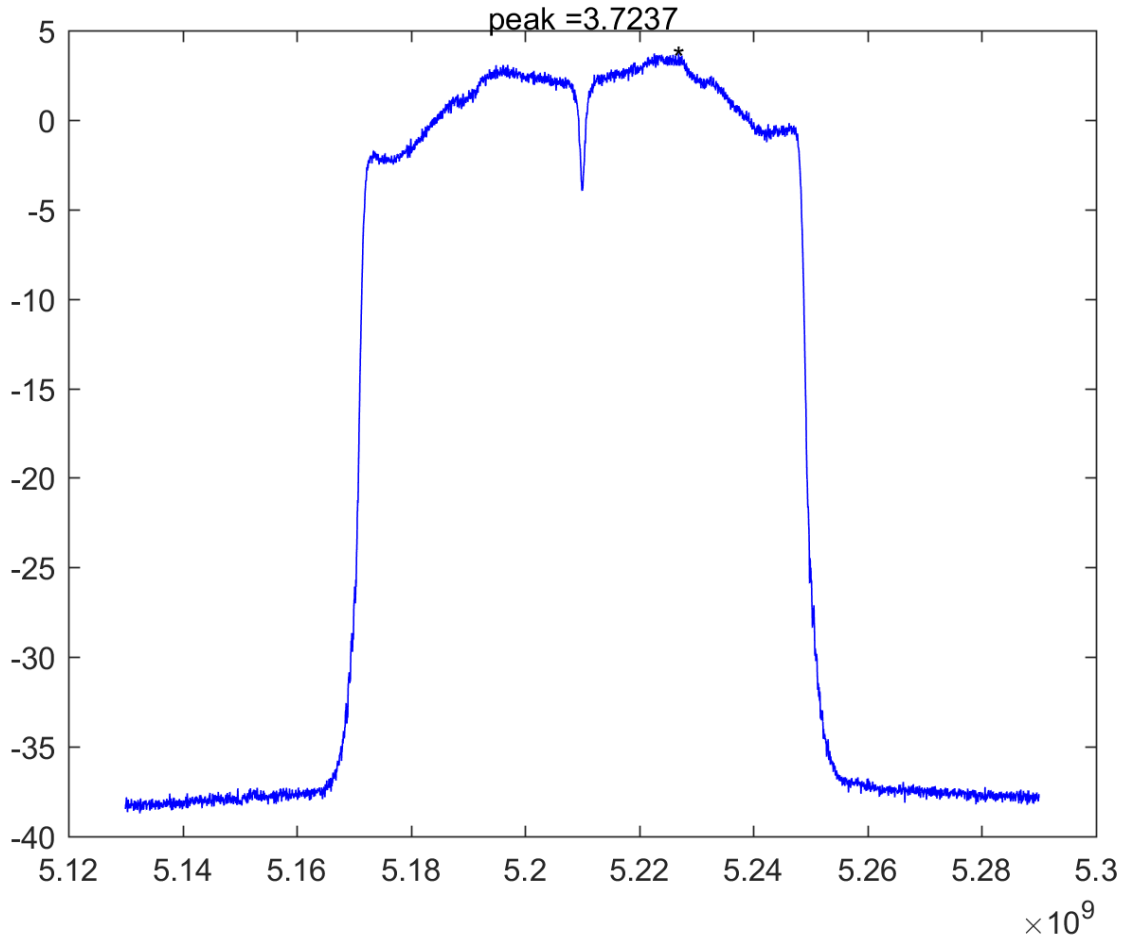


Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 3: Tx_ADP: AD890326010-2LF_ Beamforming Mode (802.11 n20/40)		
Date of Test	2017/03/02	Test Site	SR10-H

IEEE 802.11ac(80MHz)(ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
42	5210	3.724	≦15.24	Pass

Array Gain: = 7.76 dBi
Limit=17-(7.76dBi-6dBi)=15.24dBi

Peak transmit Power - Channel 42



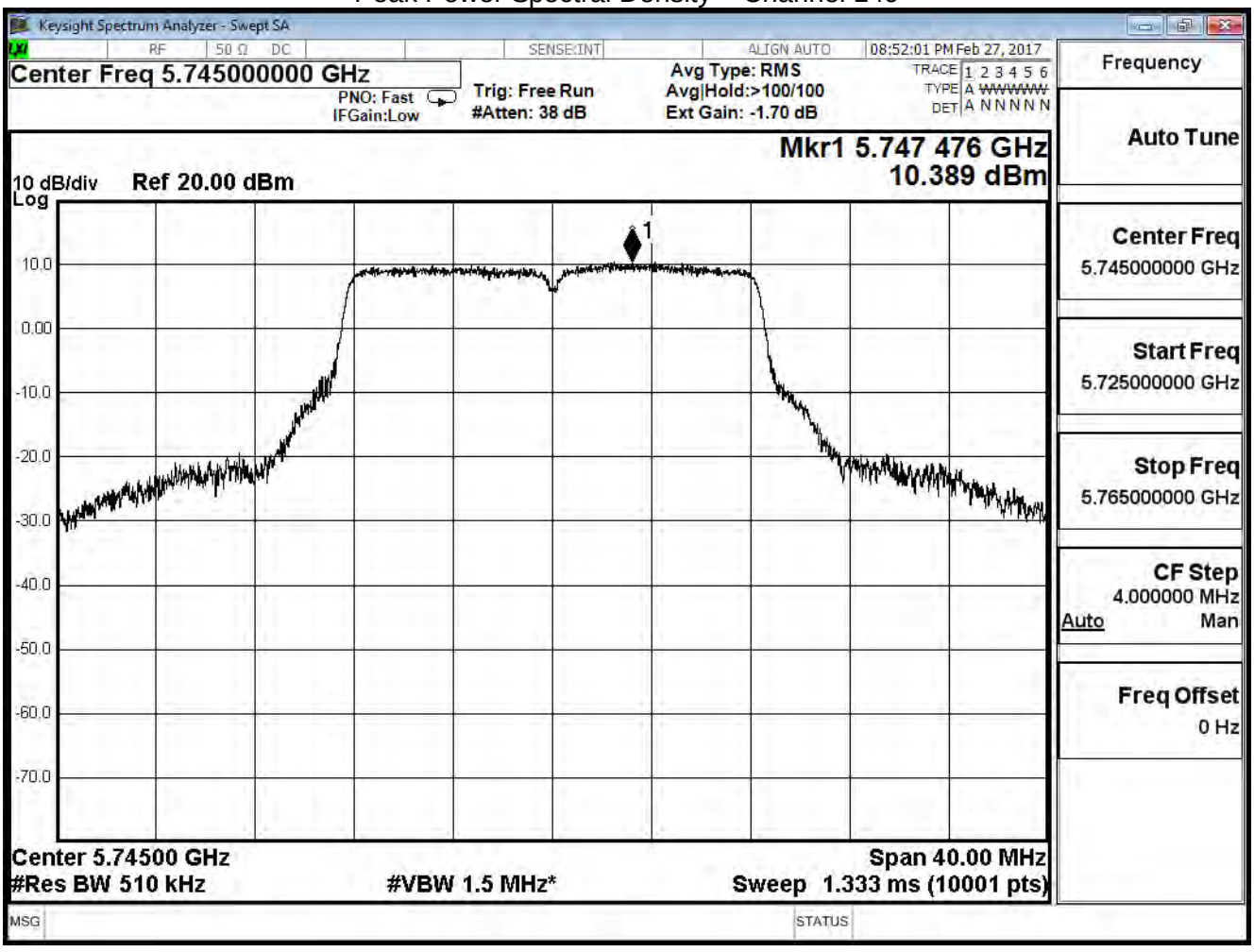
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	10.389	≤29.38	Pass
157	5785	10.455	≤29.38	Pass
165	5825	10.138	≤29.38	Pass

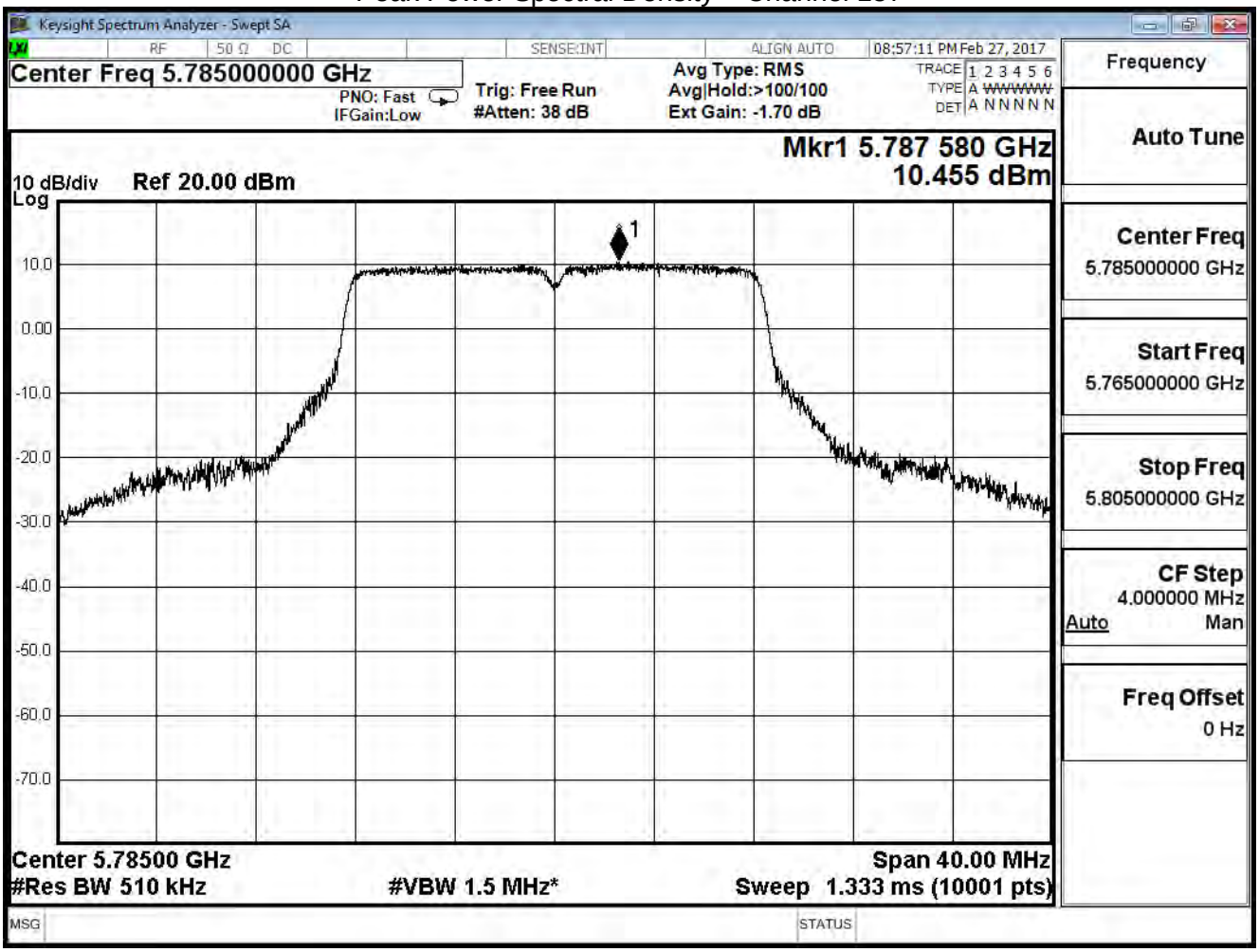
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

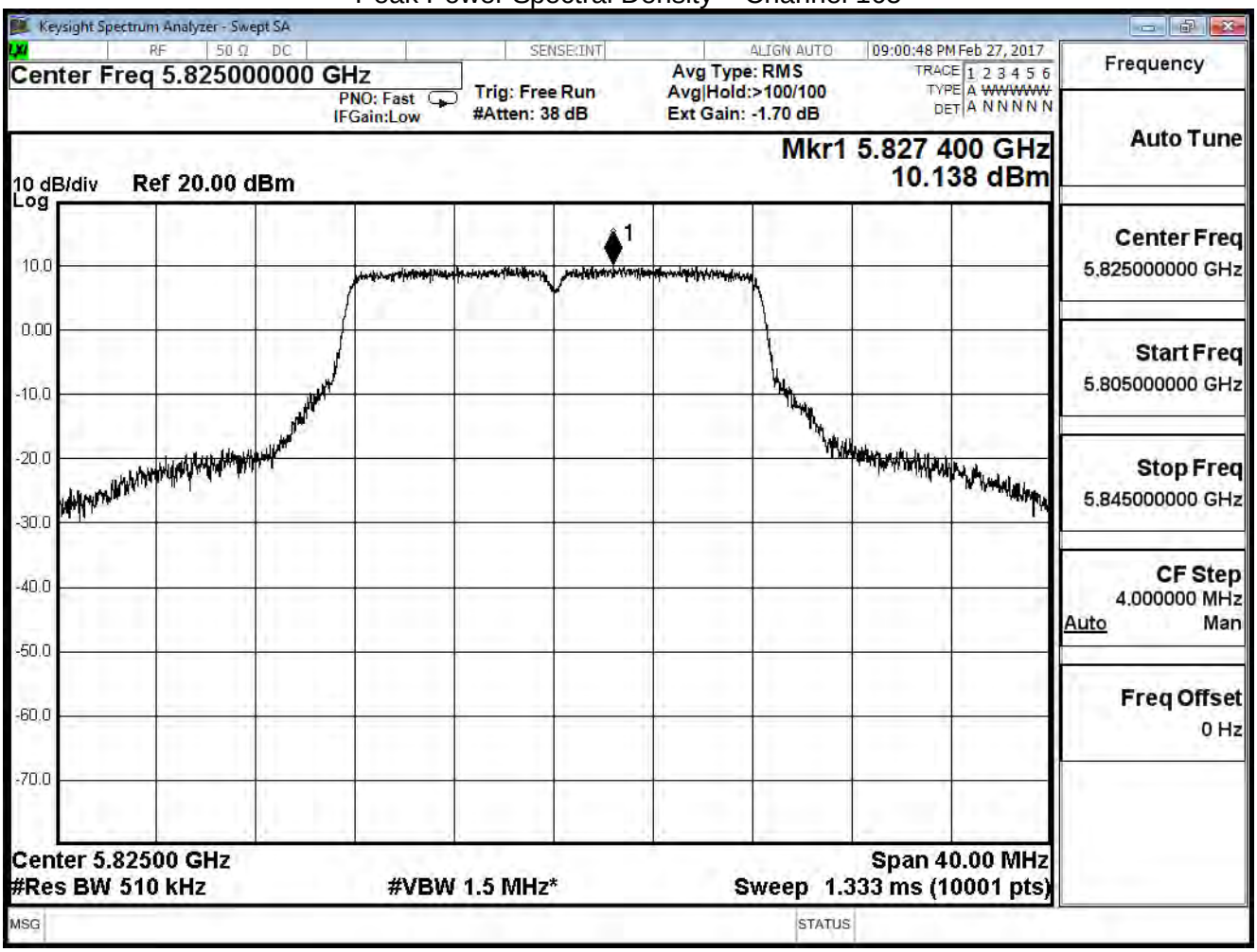
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



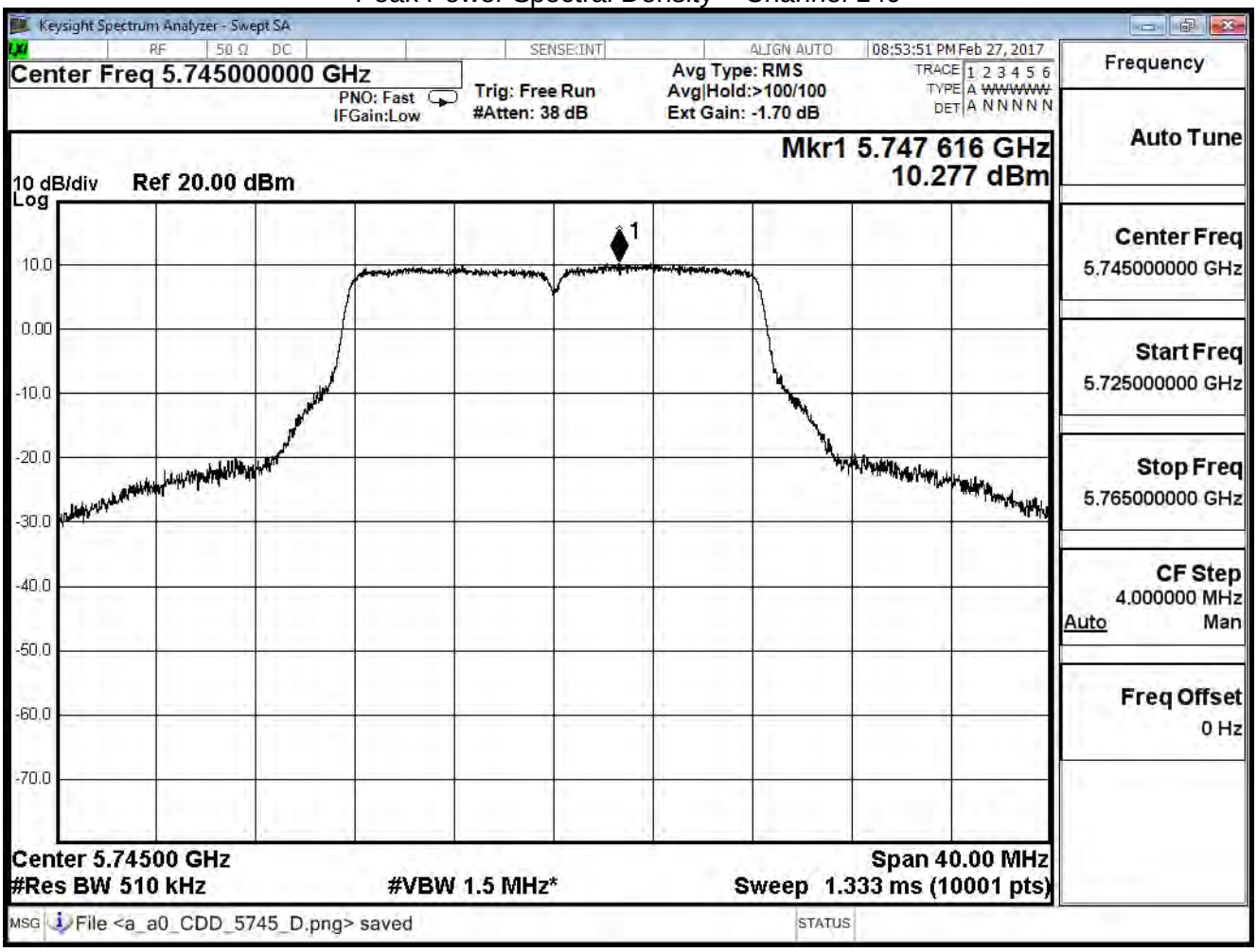
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
149	5745	10.277	≤29.38	Pass
157	5785	10.185	≤29.38	Pass
165	5825	10.139	≤29.38	Pass

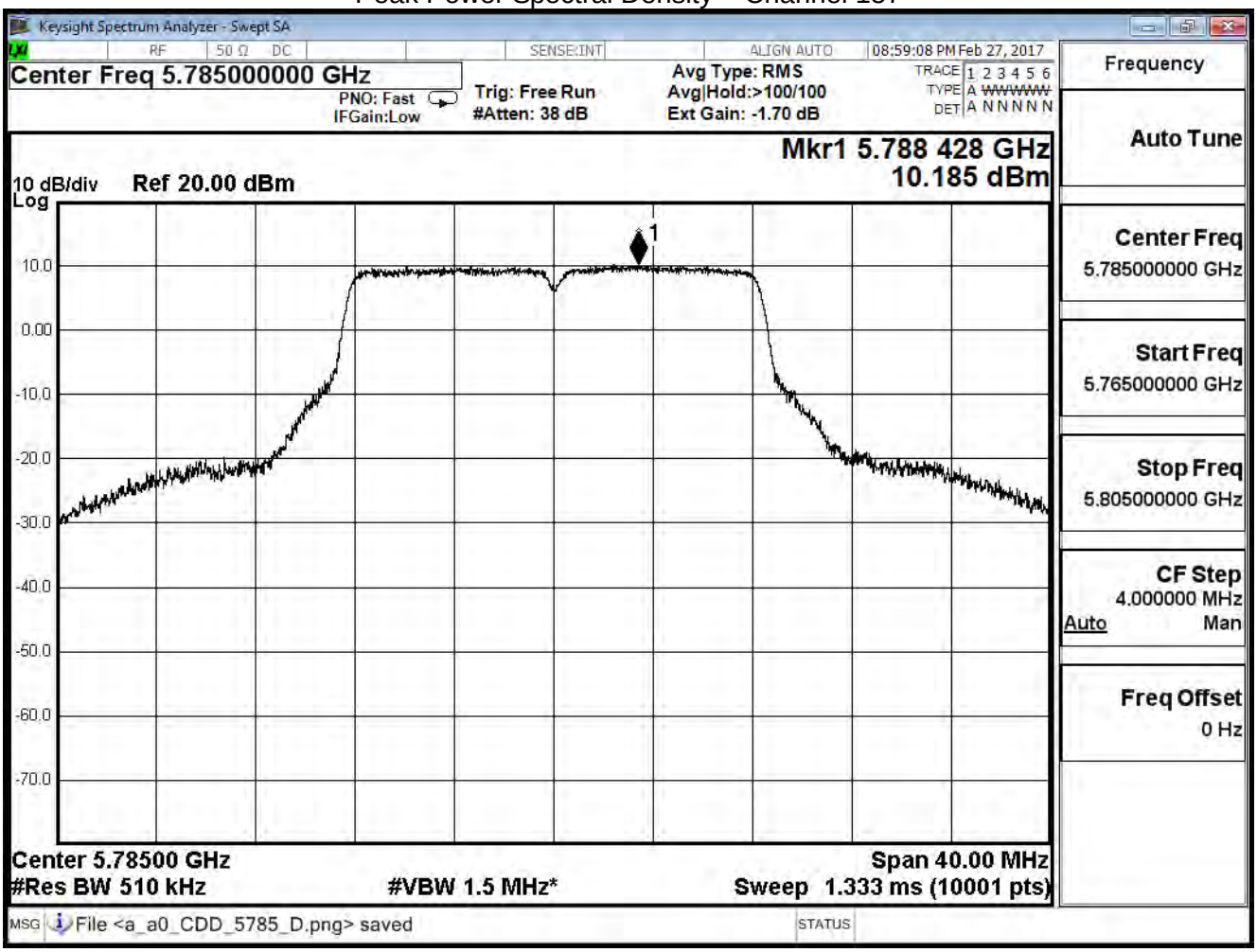
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

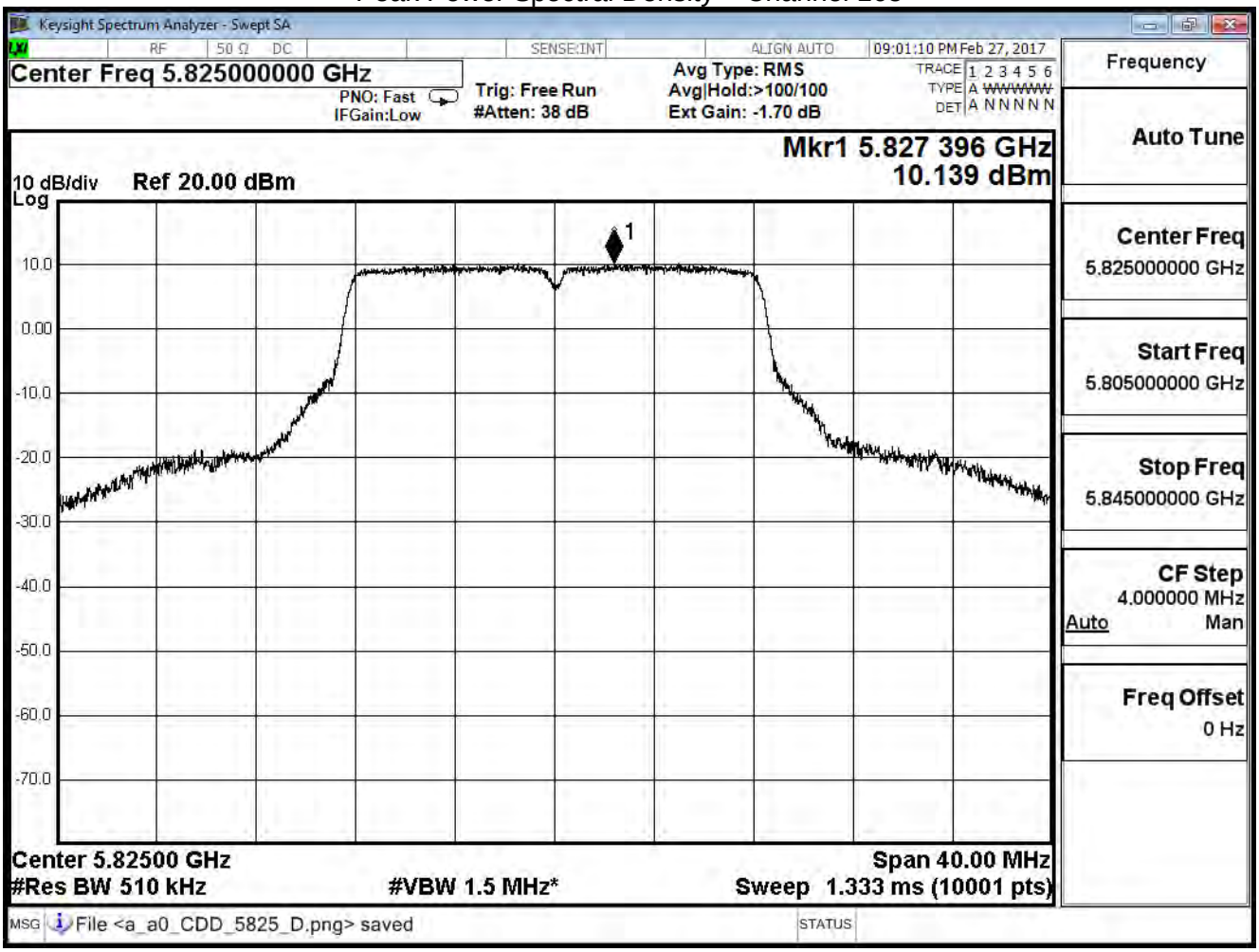
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



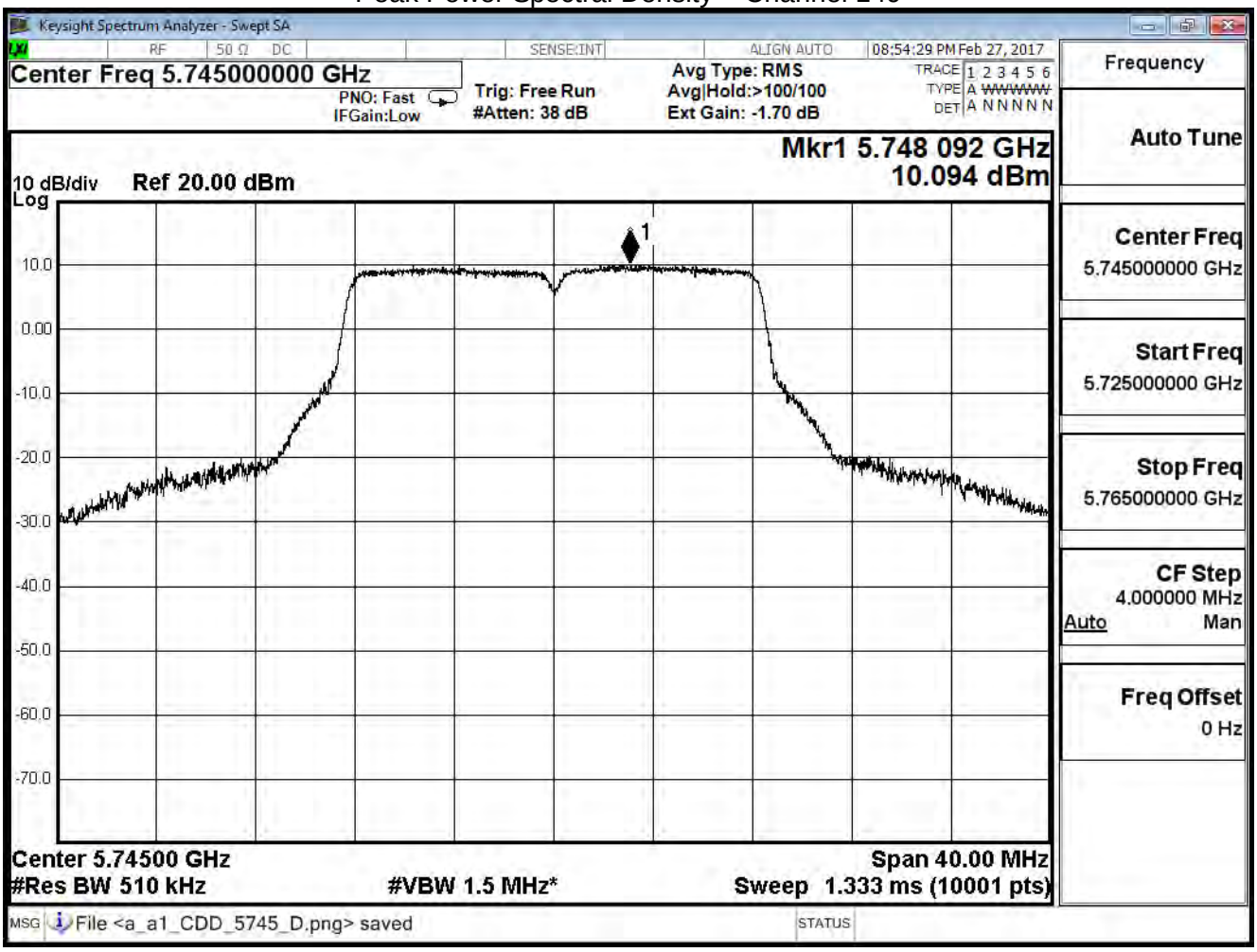
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	10.094	≤29.38	Pass
157	5785	10.225	≤29.38	Pass
165	5825	10.141	≤29.38	Pass

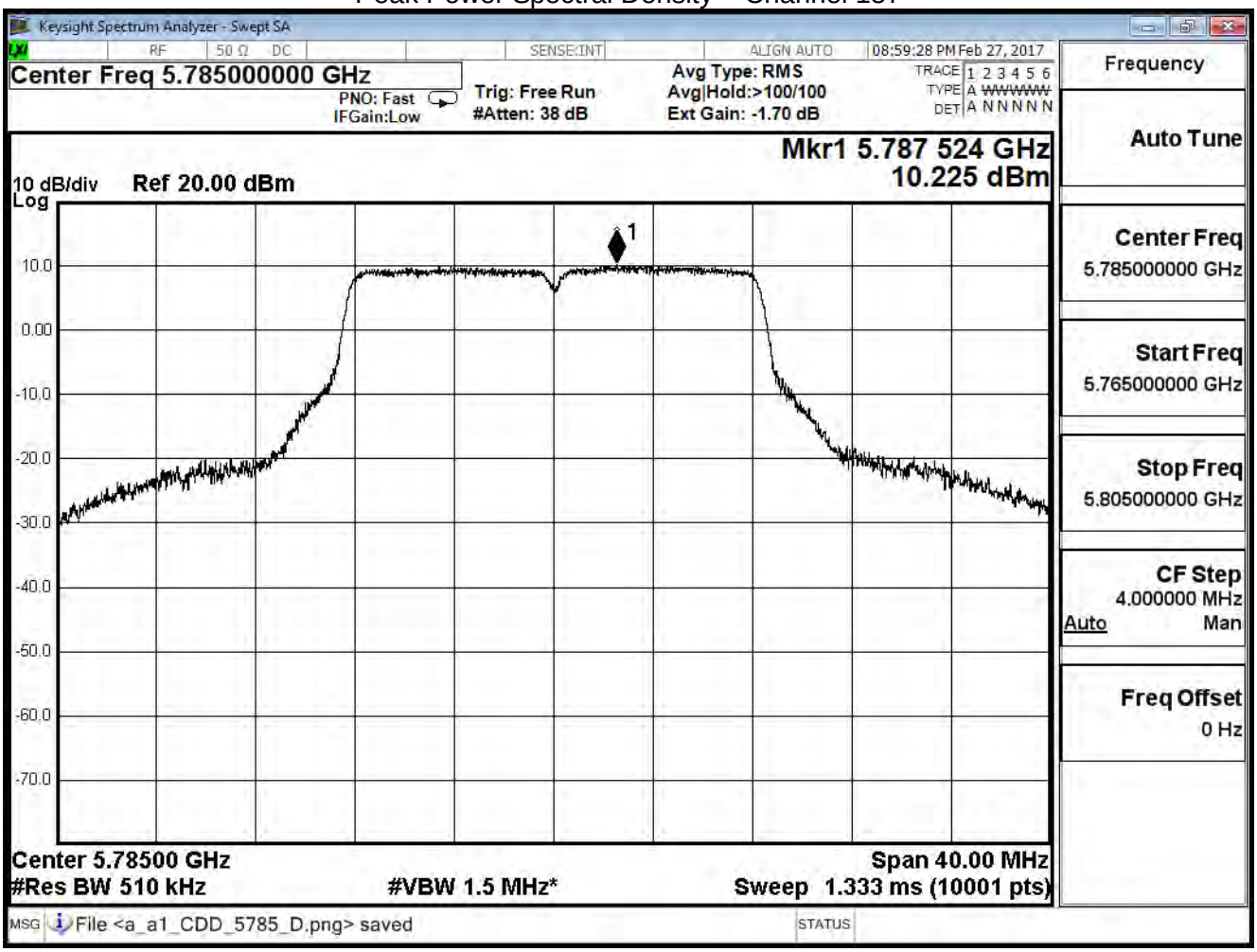
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

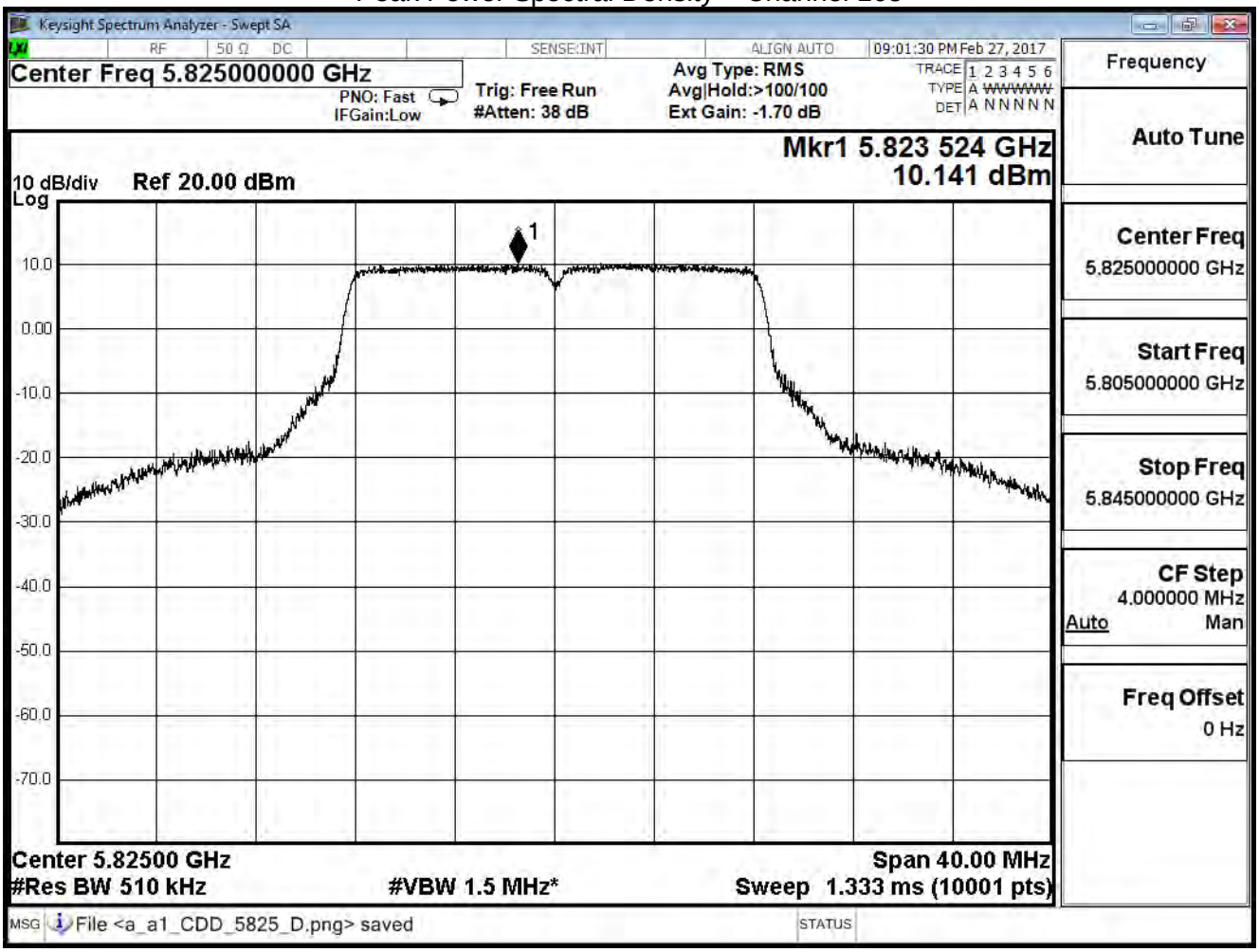
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



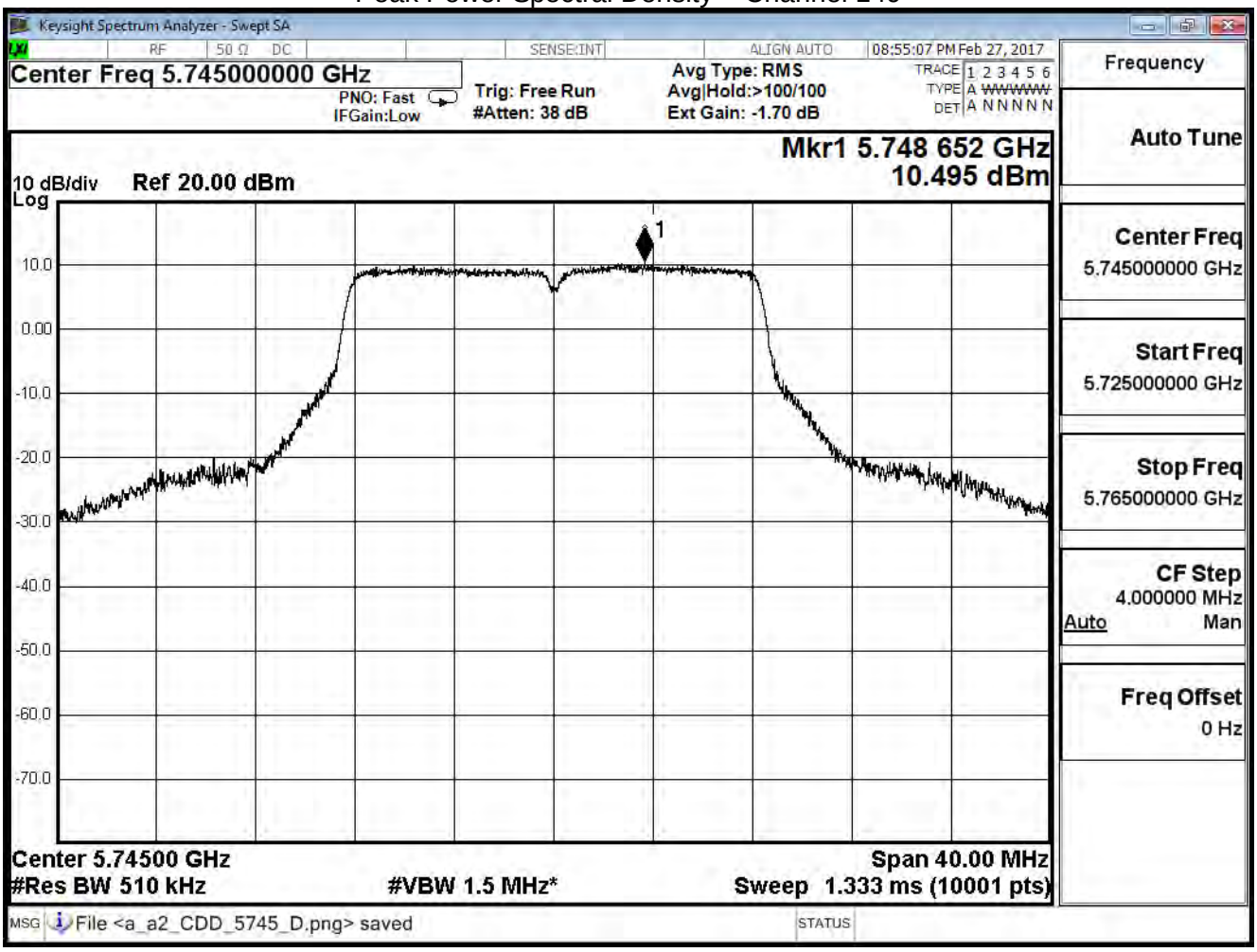
Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	10.495	≤29.38	Pass
157	5785	10.133	≤29.38	Pass
165	5825	10.162	≤29.38	Pass

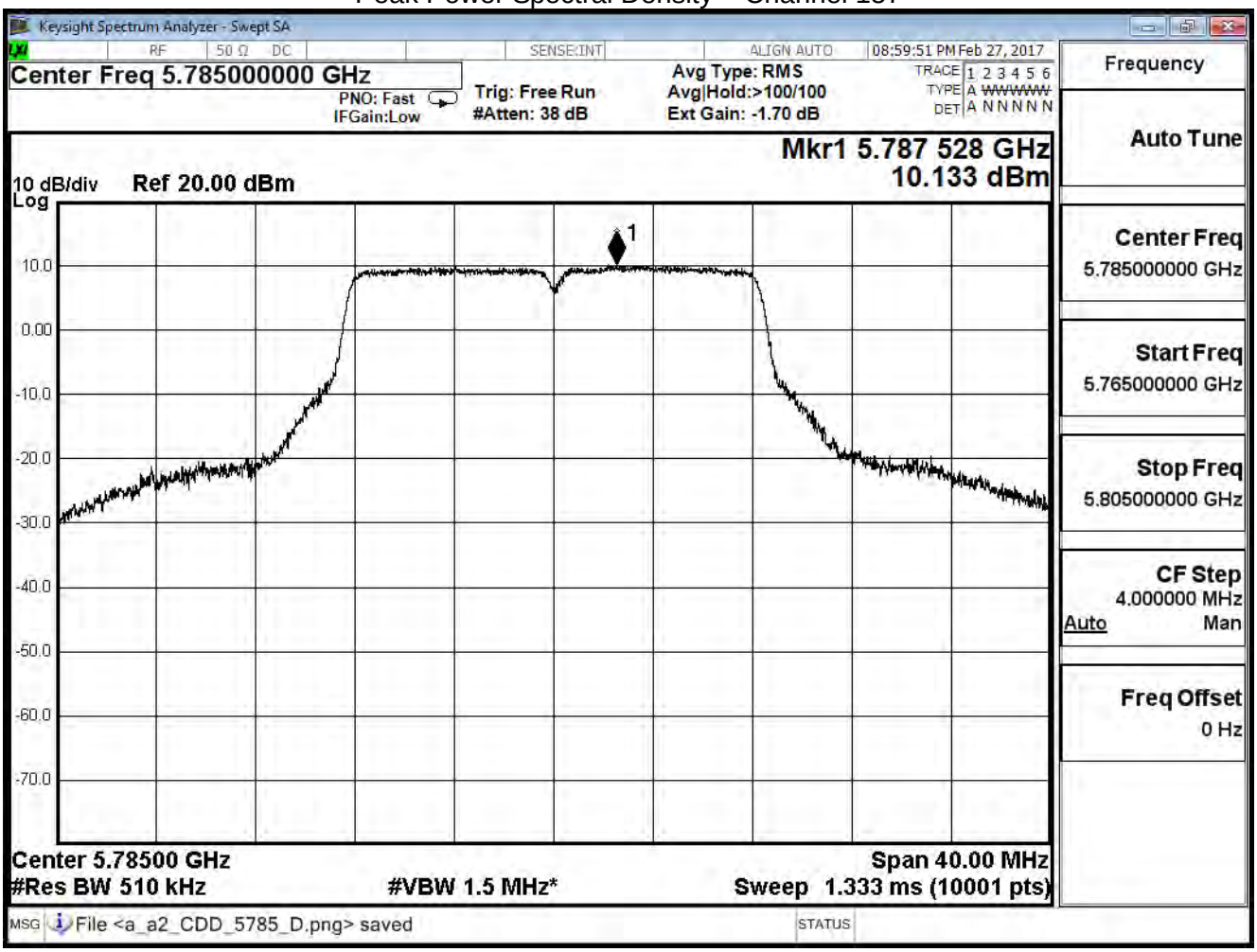
Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm

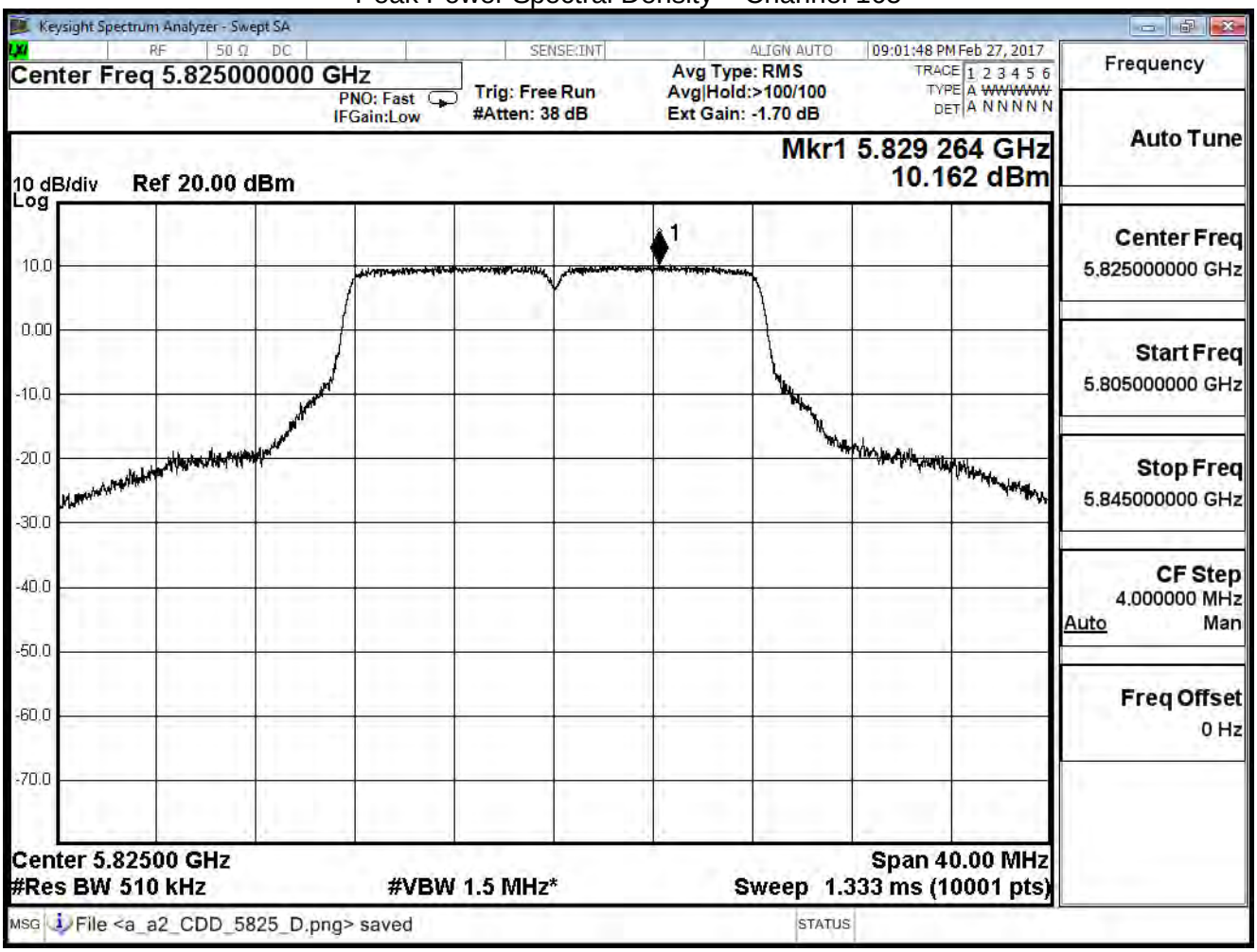
Peak Power Spectral Density – Channel 149



Peak Power Spectral Density – Channel 157



Peak Power Spectral Density – Channel 165



Product	Wireless-AC2900 Dual Band Gigabit Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx_ADP: AD890326010-2LF_ CDD Mode (802.11 a)		
Date of Test	2017/02/27	Test Site	SR10-H

IEEE 802.11a (ANT 0+1+2+3)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	16.337	≤29.38	Pass
157	5785	16.272	≤29.38	Pass
165	5825	16.166	≤29.38	Pass

Directional gain=10log(ANT N)+Gain=4.77+1.85=6.62

Limit =30dBm-(6.62dBi-6dBi)=29.38dBm