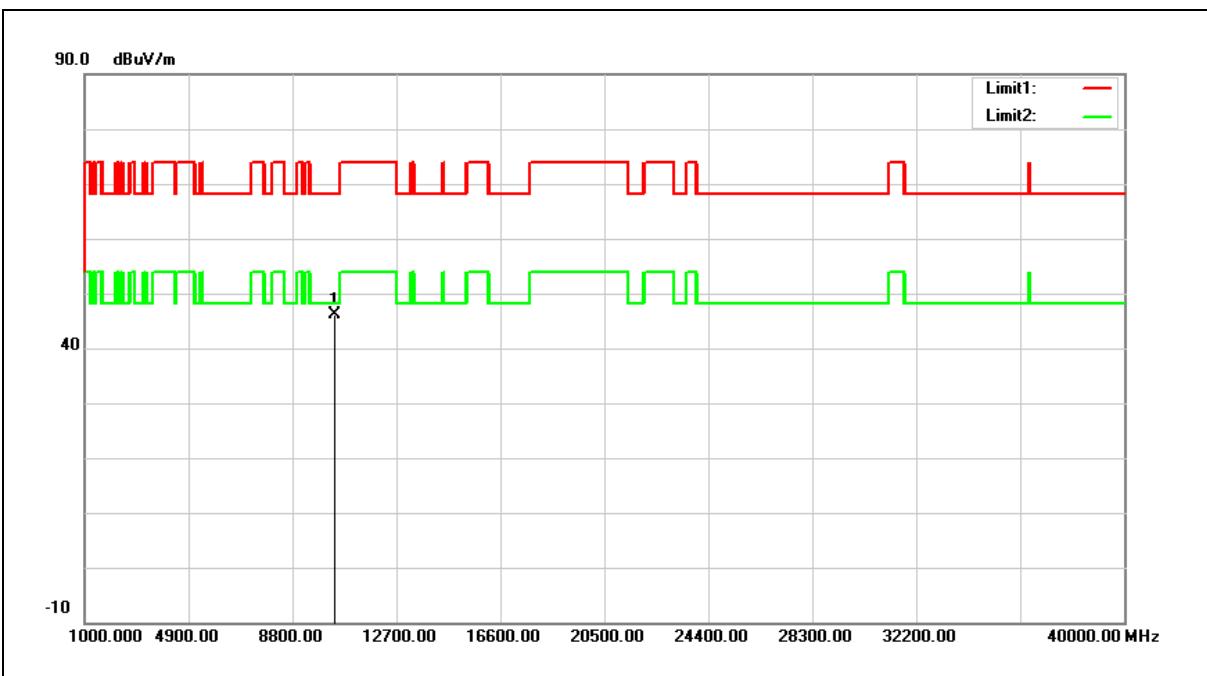


Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5180MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



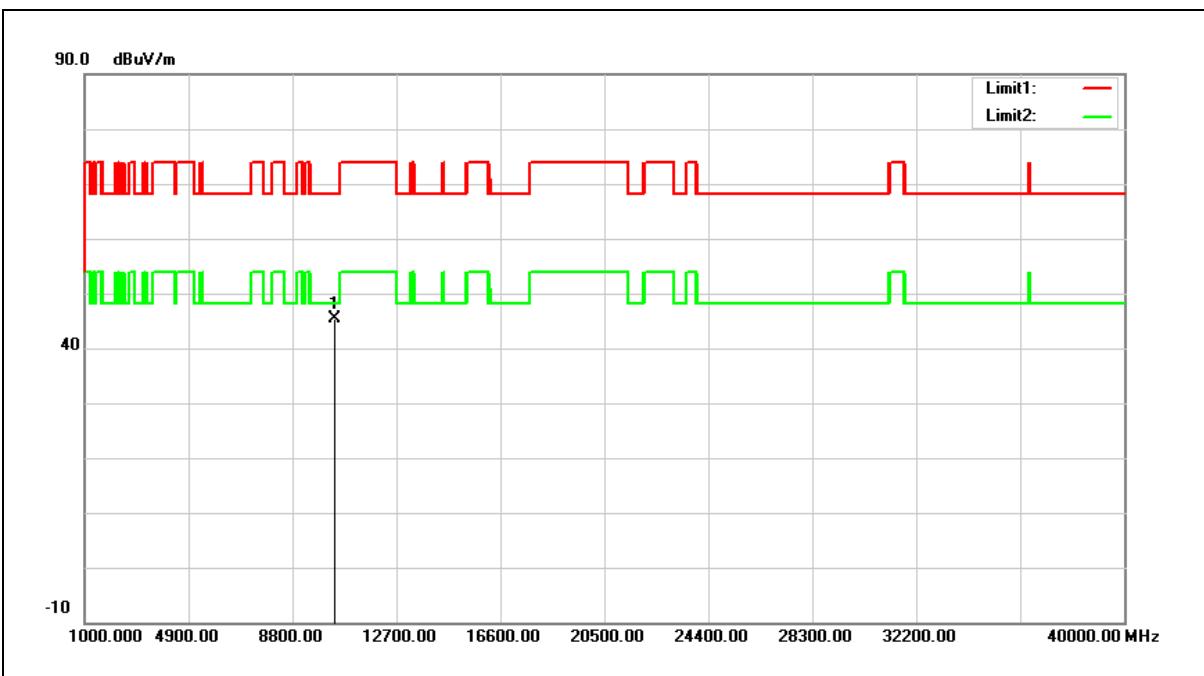
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10360.000	30.12	16.09	46.21	68.20	-21.99	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



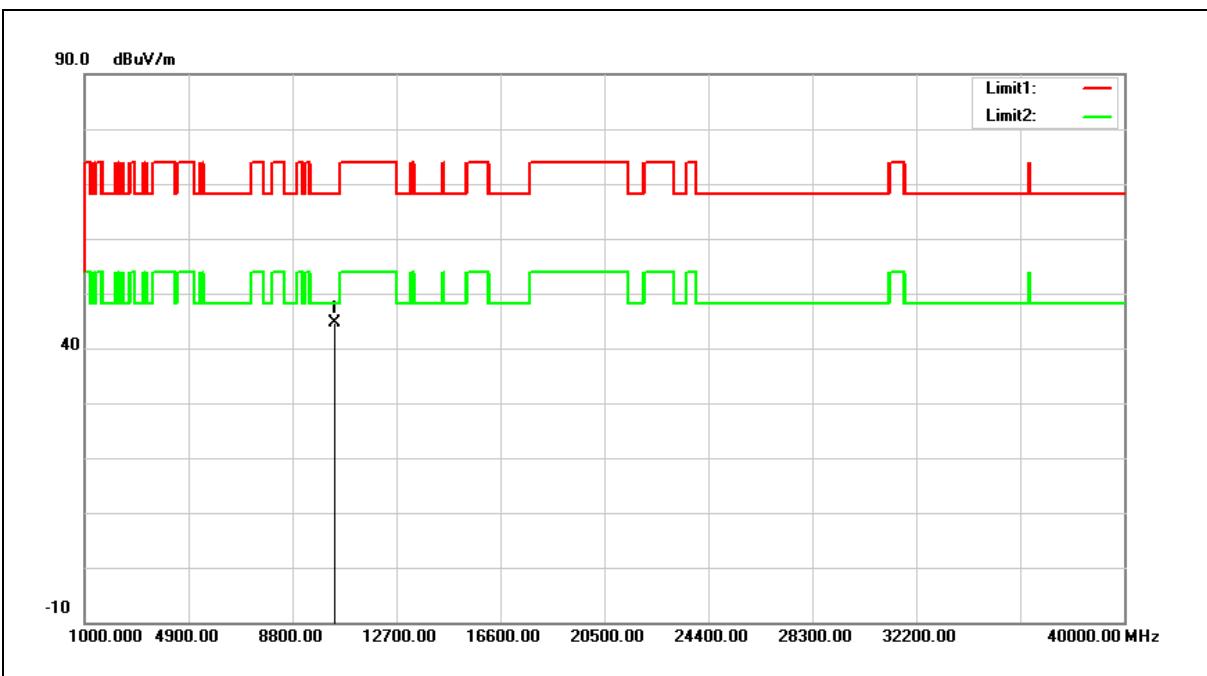
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	29.11	16.22	45.33	68.20	-22.87	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



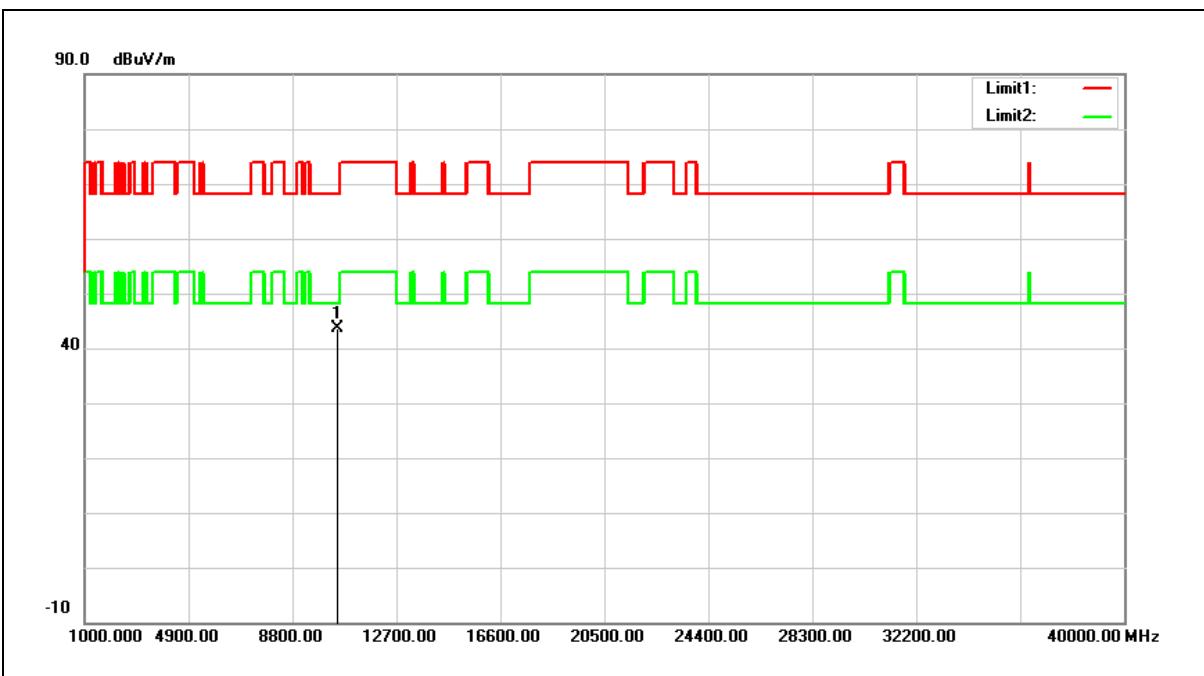
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10400.000	28.48	16.22	44.70	68.20	-23.50	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



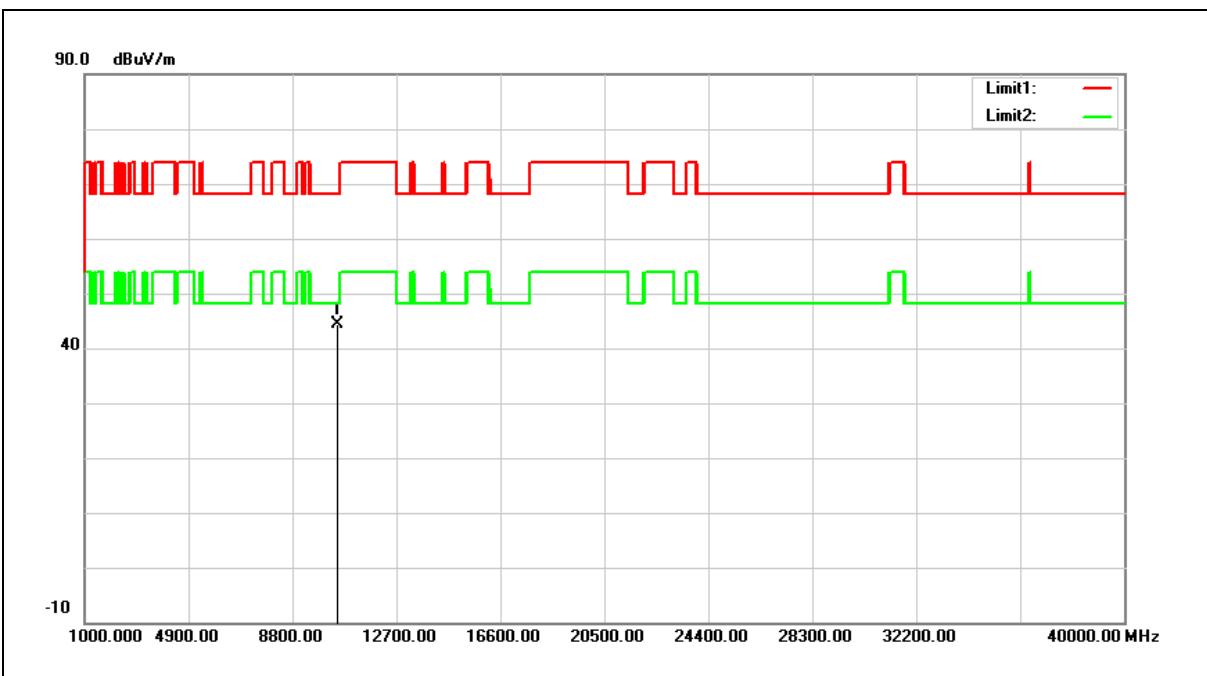
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	27.04	16.47	43.51	68.20	-24.69	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



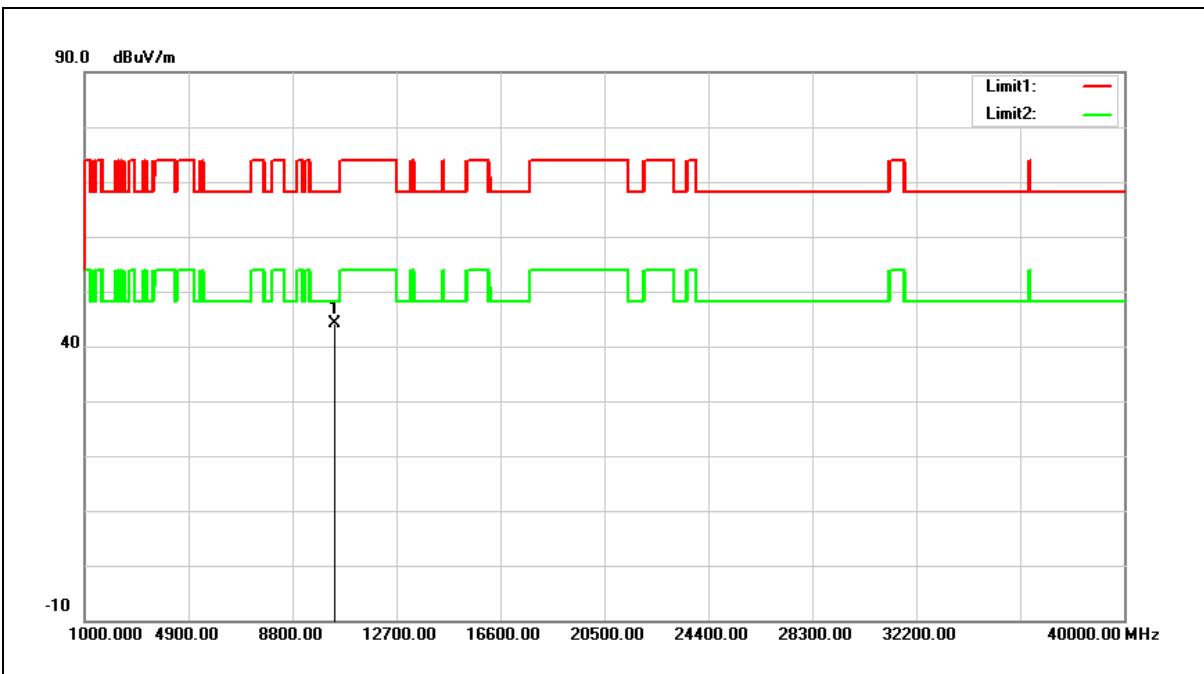
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10480.000	27.85	16.47	44.32	68.20	-23.88	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5190MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



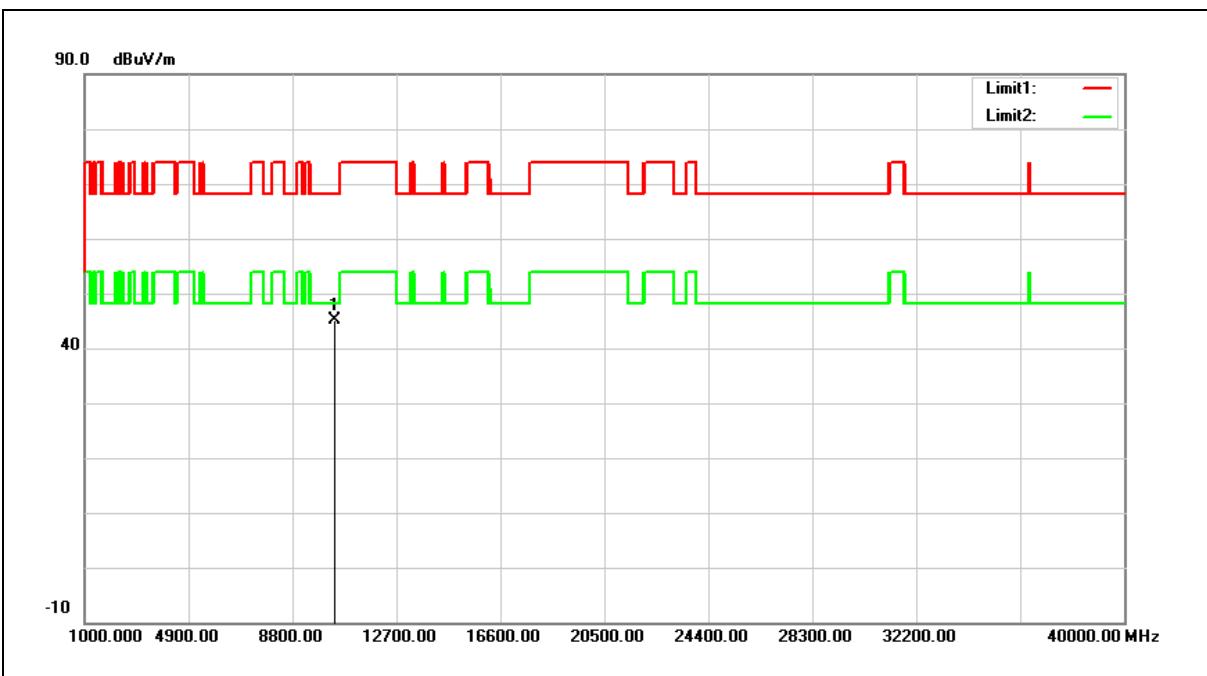
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	27.90	16.15	44.05	68.20	-24.15	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5190MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



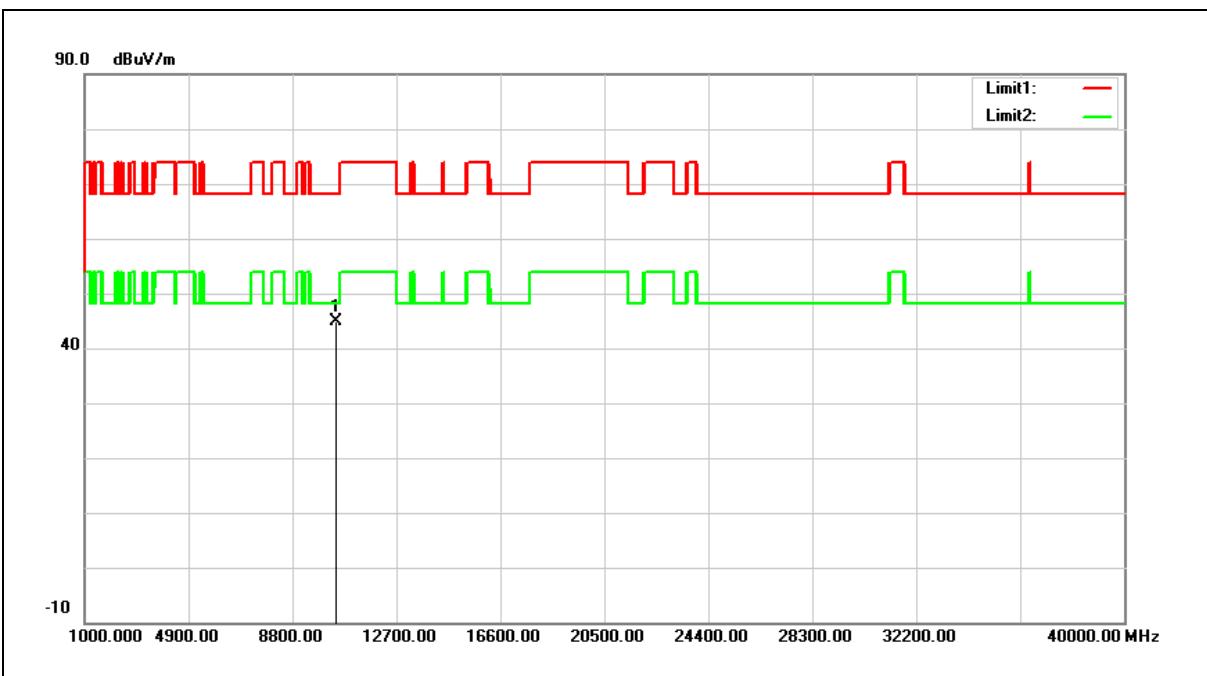
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10380.000	28.91	16.15	45.06	68.20	-23.14	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5230MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



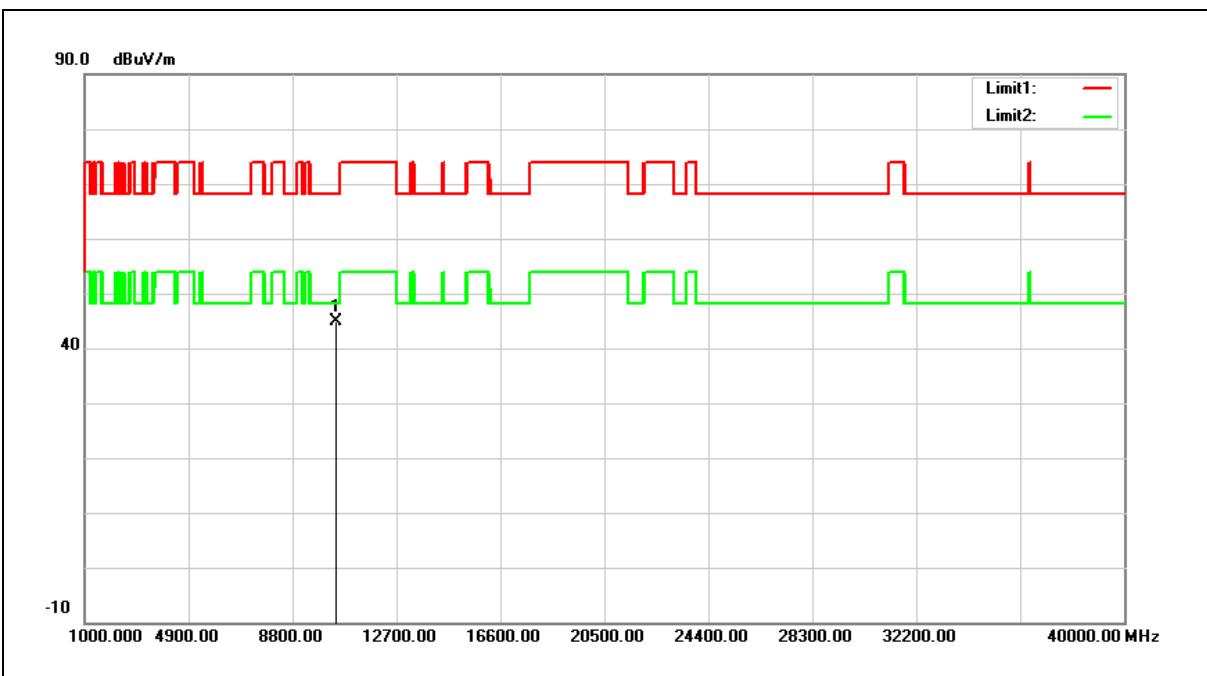
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	28.55	16.41	44.96	68.20	-23.24	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5230MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



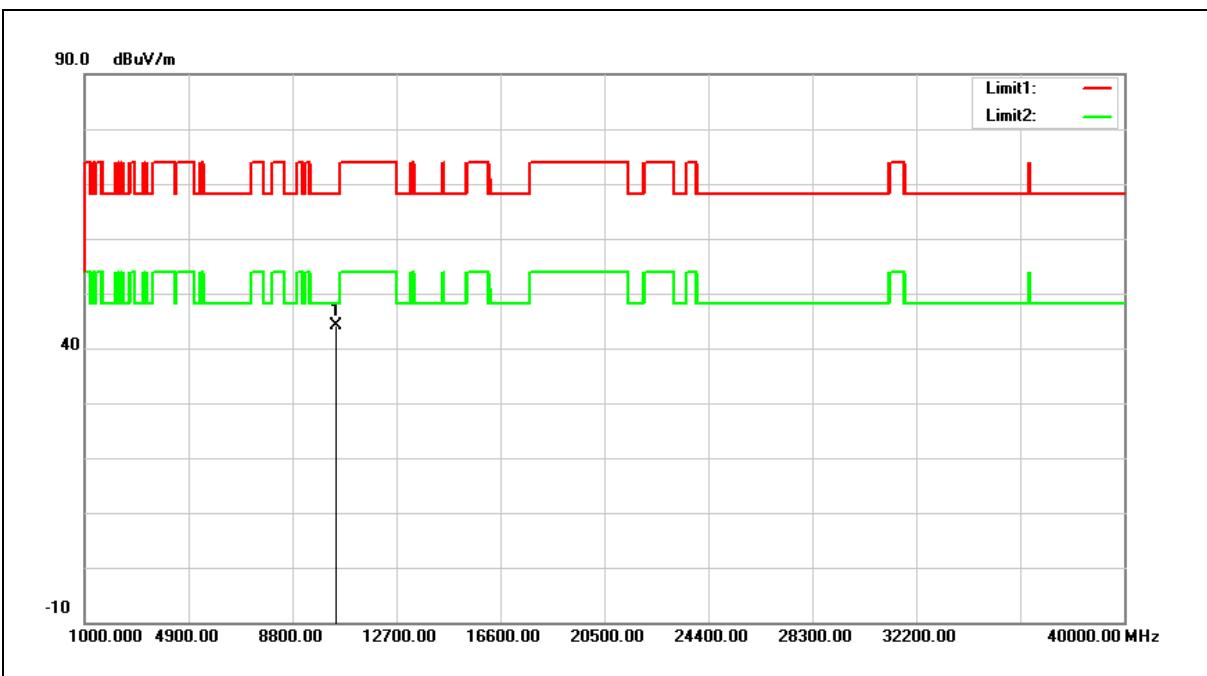
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10460.000	28.39	16.41	44.80	68.20	-23.40	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5210MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		



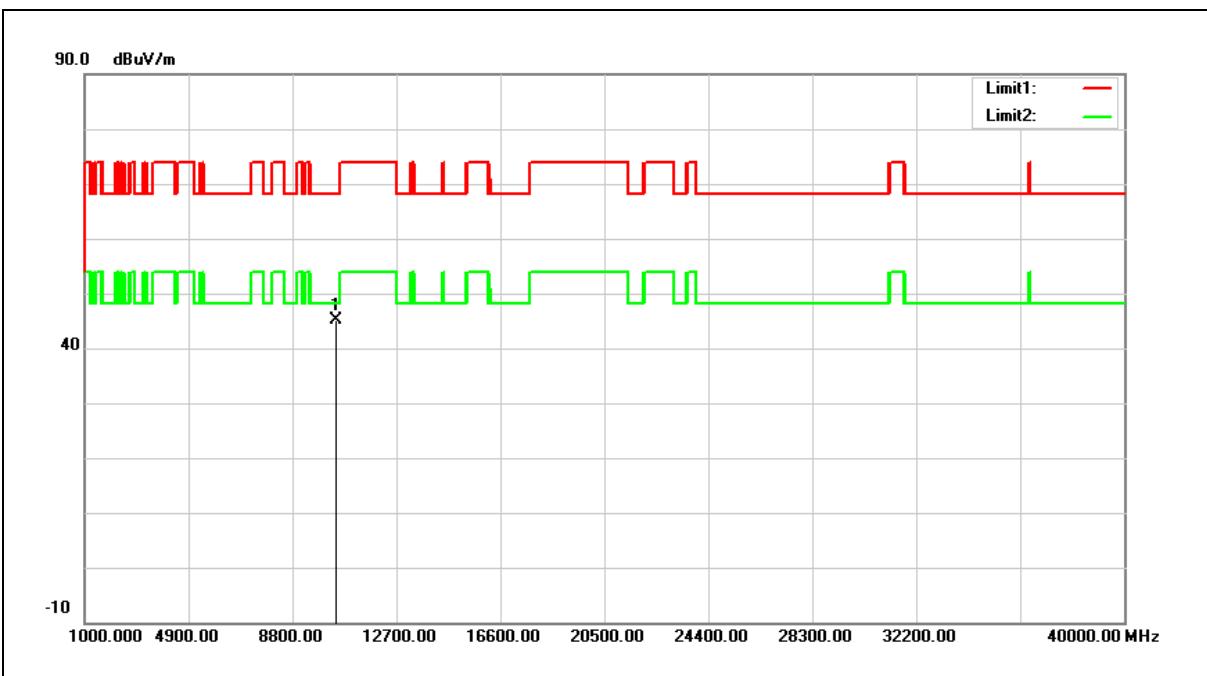
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	27.77	16.28	44.05	68.20	-24.15	peak

Note: 1. Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2. Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Harmonic	Power:	AC 120V/60Hz
Frequency:	5210MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



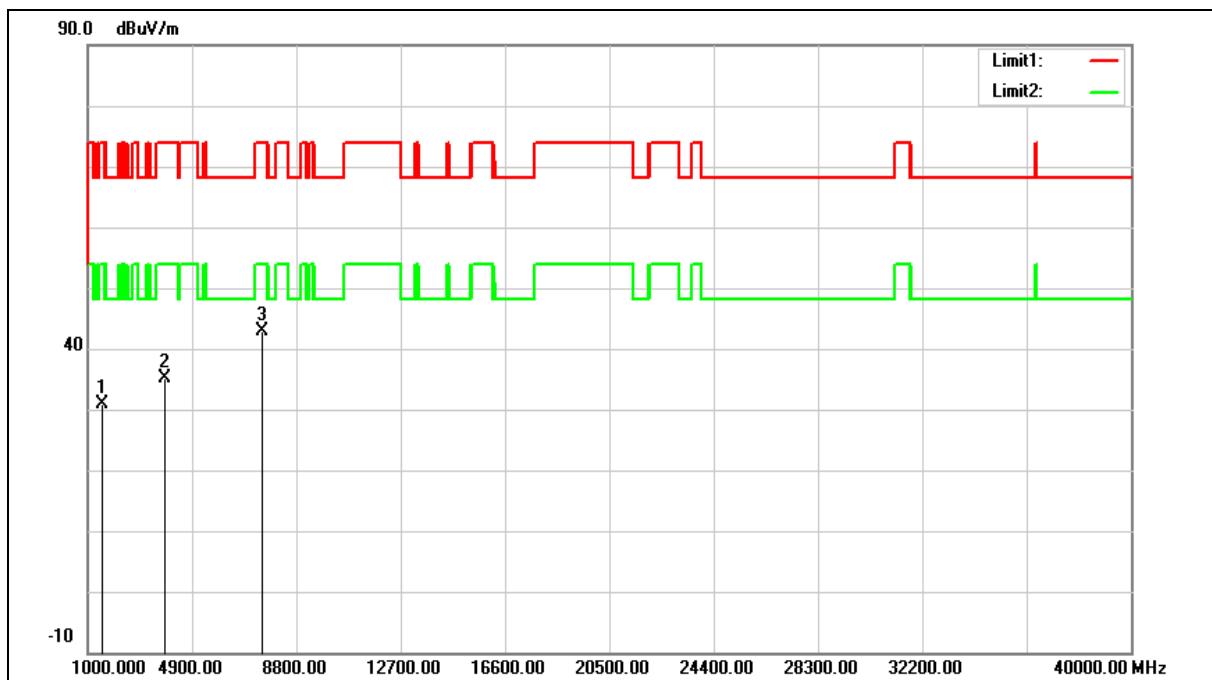
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	10420.000	28.84	16.28	45.12	68.20	-23.08	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Transmitter Unwanted Emissions	Power:	AC 120V/60Hz
Test Mode:	Simultaneous Transmitting (DTS+NII)	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Ant.Polar.:	Horizontal		



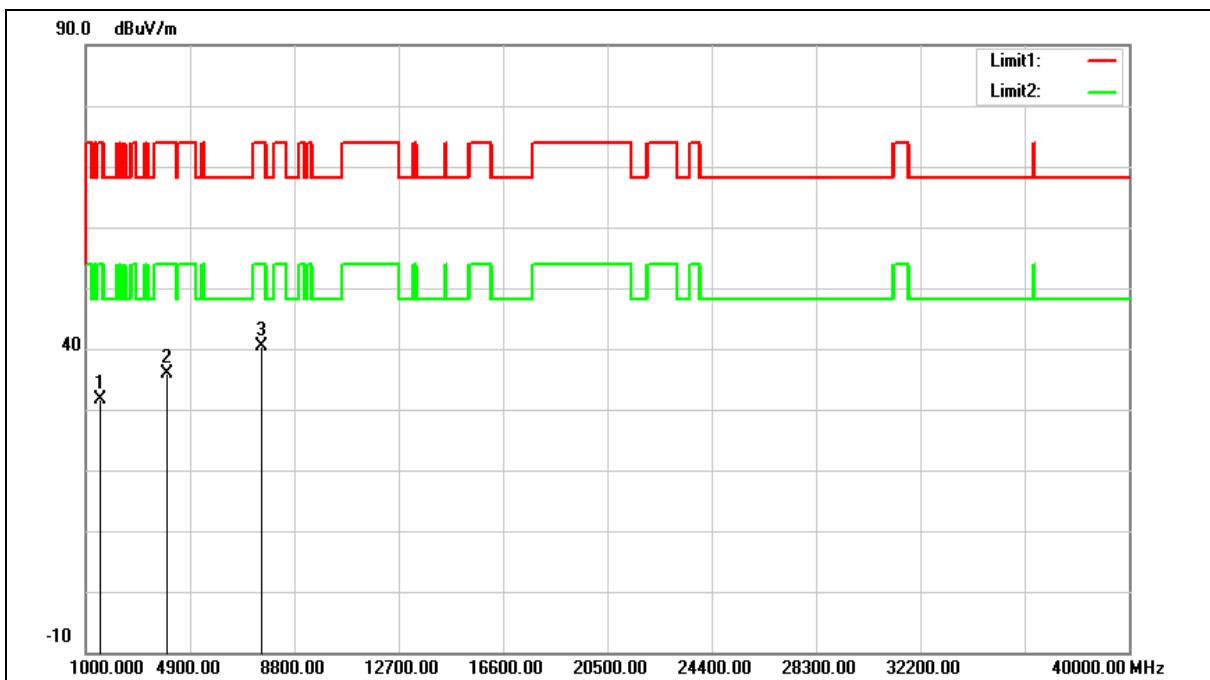
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1527.000	36.48	-5.51	30.97	74.00	-43.03	peak
2	3890.000	32.82	2.26	35.08	74.00	-38.92	peak
3	7477.000	30.95	11.89	42.84	74.00	-31.16	peak

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Transmitter Unwanted Emissions	Power:	AC 120V/60Hz
Test Mode:	Simultaneous Transmitting (DTS+NII)	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
		Date:	06/07/2017
Ant.Polar.:	Vertical		



No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	1561.000	37.01	-5.35	31.66	74.00	-42.34	peak
2	4026.000	33.13	2.67	35.80	74.00	-38.20	peak
3	7562.000	28.32	12.04	40.36	74.00	-33.64	peak

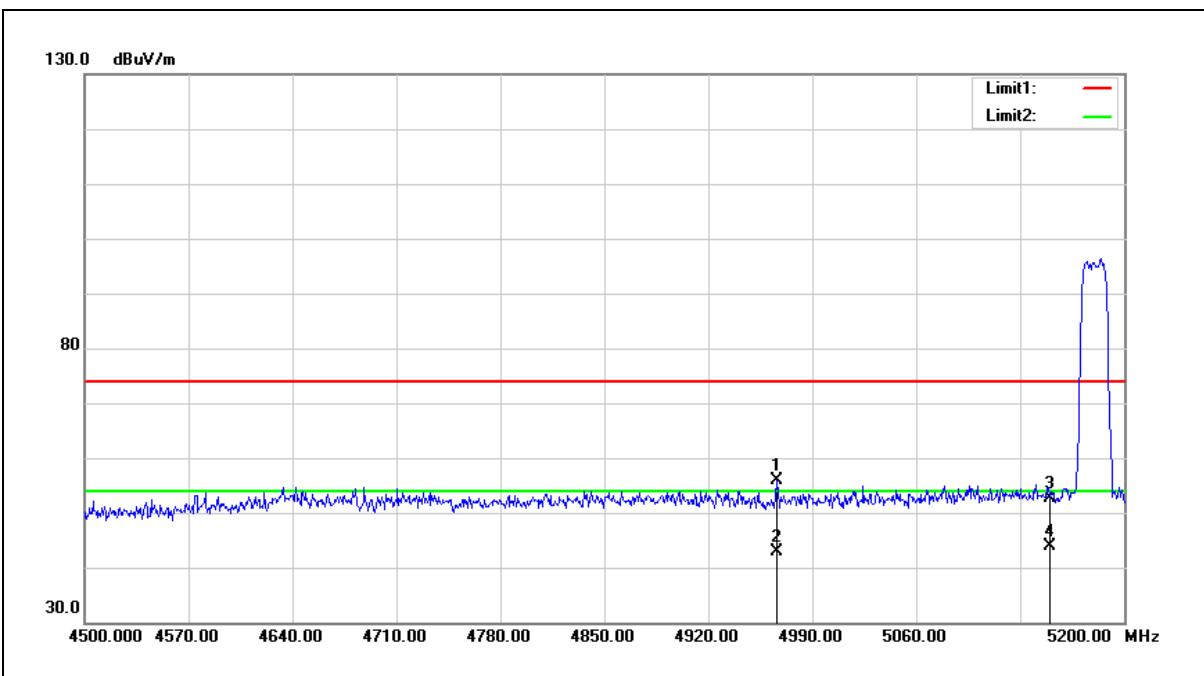
Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Band Edge

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5180MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		



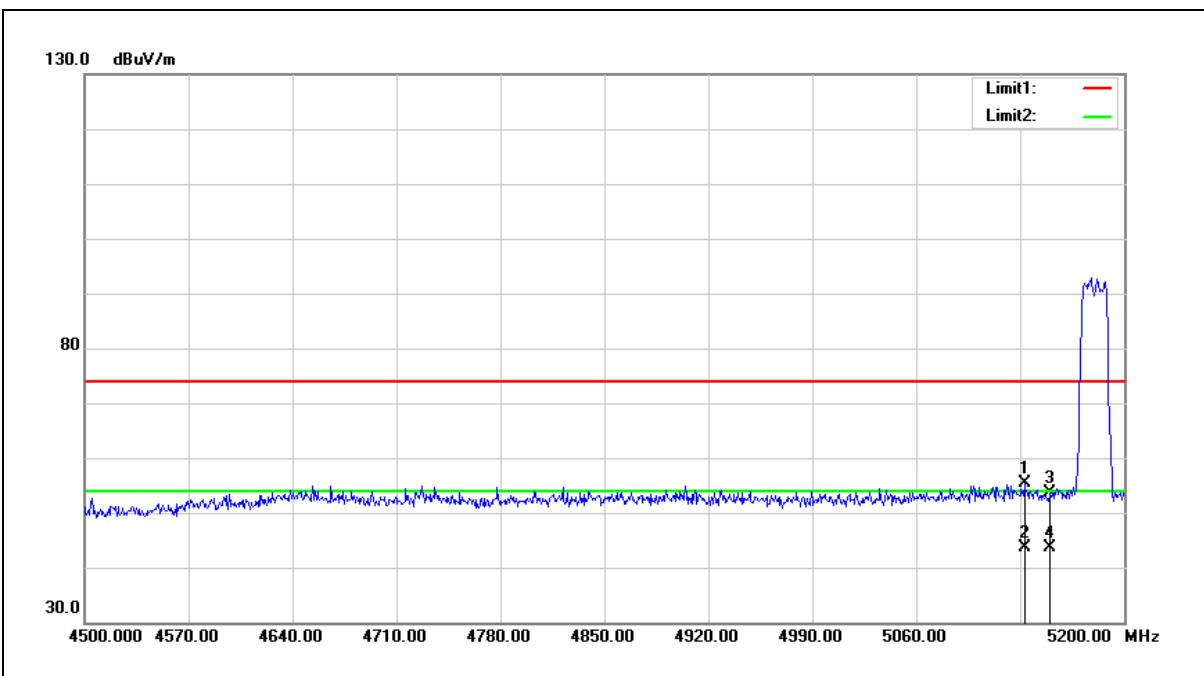
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4966.200	50.47	5.44	55.91	74.00	-18.09	peak
2	4966.200	37.36	5.44	42.80	54.00	-11.20	Avg
3	5150.000	46.82	5.78	52.60	74.00	-21.40	peak
4	5150.000	37.99	5.78	43.77	54.00	-10.23	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5180MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



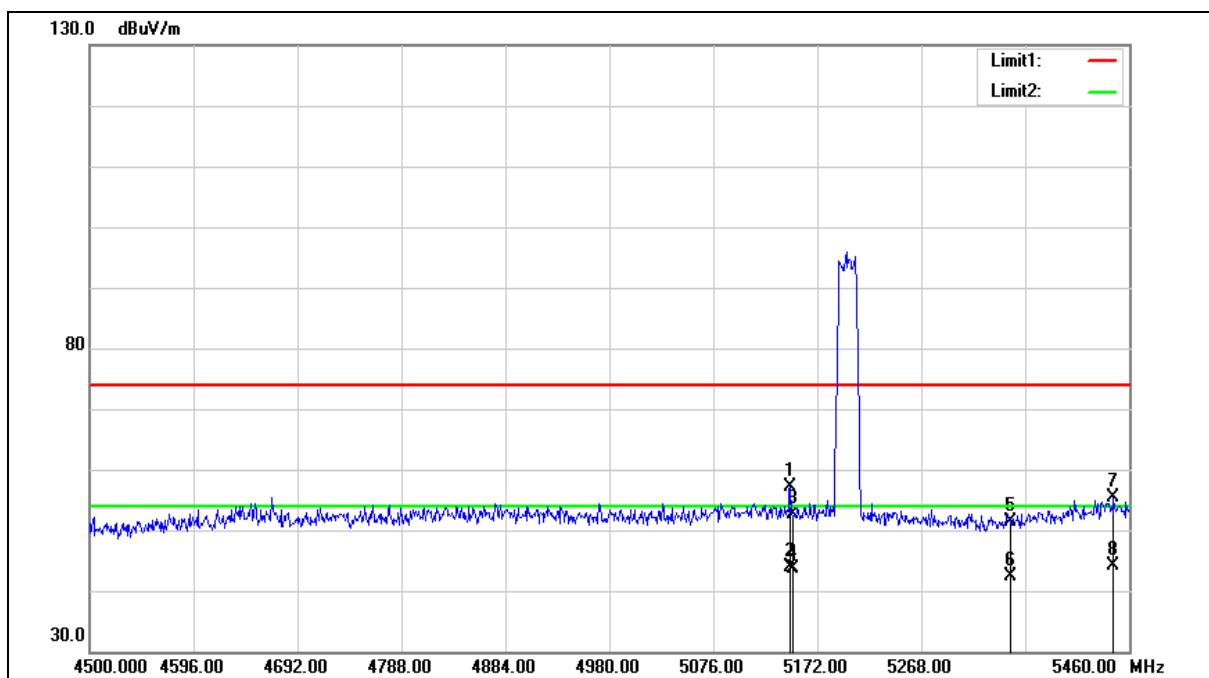
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5132.800	49.52	5.75	55.27	74.00	-18.73	peak
2	5132.800	37.99	5.75	43.74	54.00	-10.26	Avg
3	5150.000	47.76	5.78	53.54	74.00	-20.46	peak
4	5150.000	37.91	5.78	43.69	54.00	-10.31	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

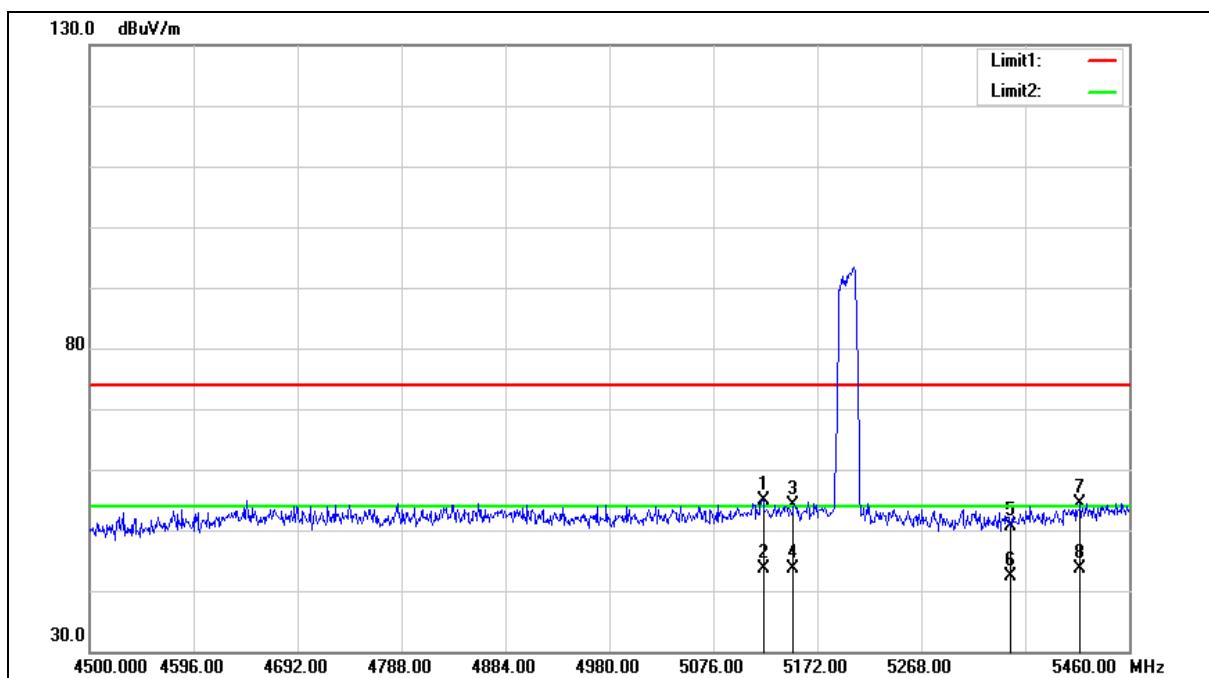
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5147.040	51.29	5.77	57.06	74.00	-16.94	peak
2	5147.040	38.00	5.77	43.77	54.00	-10.23	AVG
3	5150.000	46.84	5.78	52.62	74.00	-21.38	peak
4	5150.000	37.97	5.78	43.75	54.00	-10.25	AVG
5	5350.000	45.28	6.07	51.35	74.00	-22.65	peak
6	5350.000	36.26	6.07	42.33	54.00	-11.67	AVG
7	5445.600	49.07	6.21	55.28	74.00	-18.72	peak
8	5445.600	37.80	6.21	44.01	54.00	-9.99	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

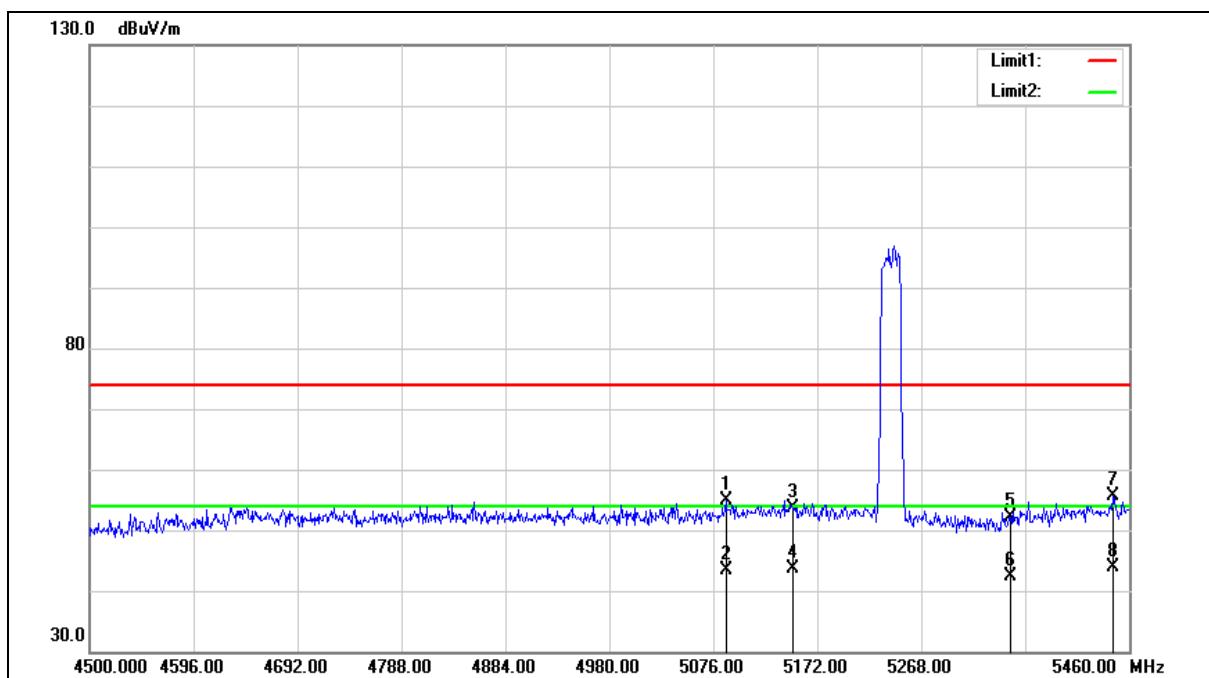
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5122.080	49.10	5.73	54.83	74.00	-19.17	peak
2	5122.080	37.90	5.73	43.63	54.00	-10.37	AVG
3	5150.000	48.29	5.78	54.07	74.00	-19.93	peak
4	5150.000	37.91	5.78	43.69	54.00	-10.31	AVG
5	5350.000	44.63	6.07	50.70	74.00	-23.30	peak
6	5350.000	36.24	6.07	42.31	54.00	-11.69	AVG
7	5414.880	48.13	6.17	54.30	74.00	-19.70	peak
8	5414.880	37.51	6.17	43.68	54.00	-10.32	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Horizontal		

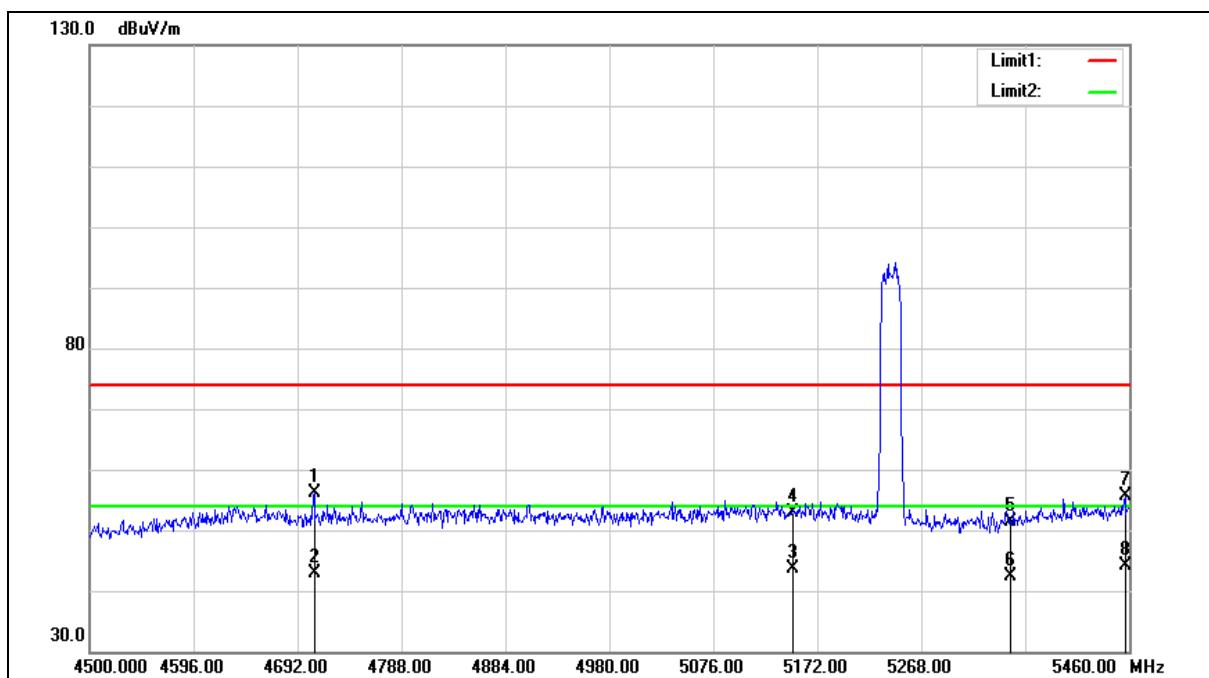
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5087.520	49.19	5.67	54.86	74.00	-19.14	peak
2	5087.520	37.74	5.67	43.41	54.00	-10.59	AVG
3	5150.000	47.77	5.78	53.55	74.00	-20.45	peak
4	5150.000	37.95	5.78	43.73	54.00	-10.27	AVG
5	5350.000	46.16	6.07	52.23	74.00	-21.77	peak
6	5350.000	36.23	6.07	42.30	54.00	-11.70	AVG
7	5444.640	49.49	6.21	55.70	74.00	-18.30	peak
8	5444.640	37.79	6.21	44.00	54.00	-10.00	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 2		
Ant.Polar.:	Vertical		

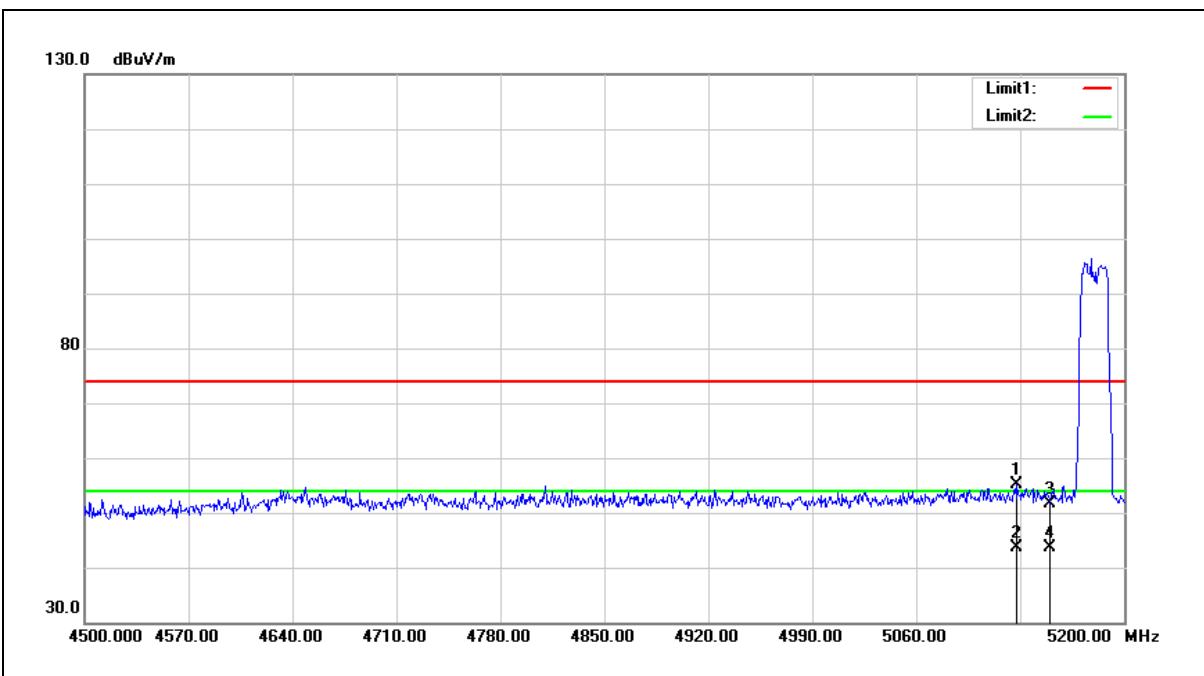
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4707.360	51.42	4.63	56.05	74.00	-17.95	peak
2	4707.360	38.27	4.63	42.90	54.00	-11.10	AVG
3	5150.000	37.88	5.78	43.66	54.00	-10.34	AVG
4	5150.000	47.14	5.78	52.92	74.00	-21.08	RMS
5	5350.000	45.38	6.07	51.45	74.00	-22.55	peak
6	5350.000	36.28	6.07	42.35	54.00	-11.65	AVG
7	5456.160	49.42	6.22	55.64	74.00	-18.36	peak
8	5456.160	37.87	6.22	44.09	54.00	-9.91	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5180MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



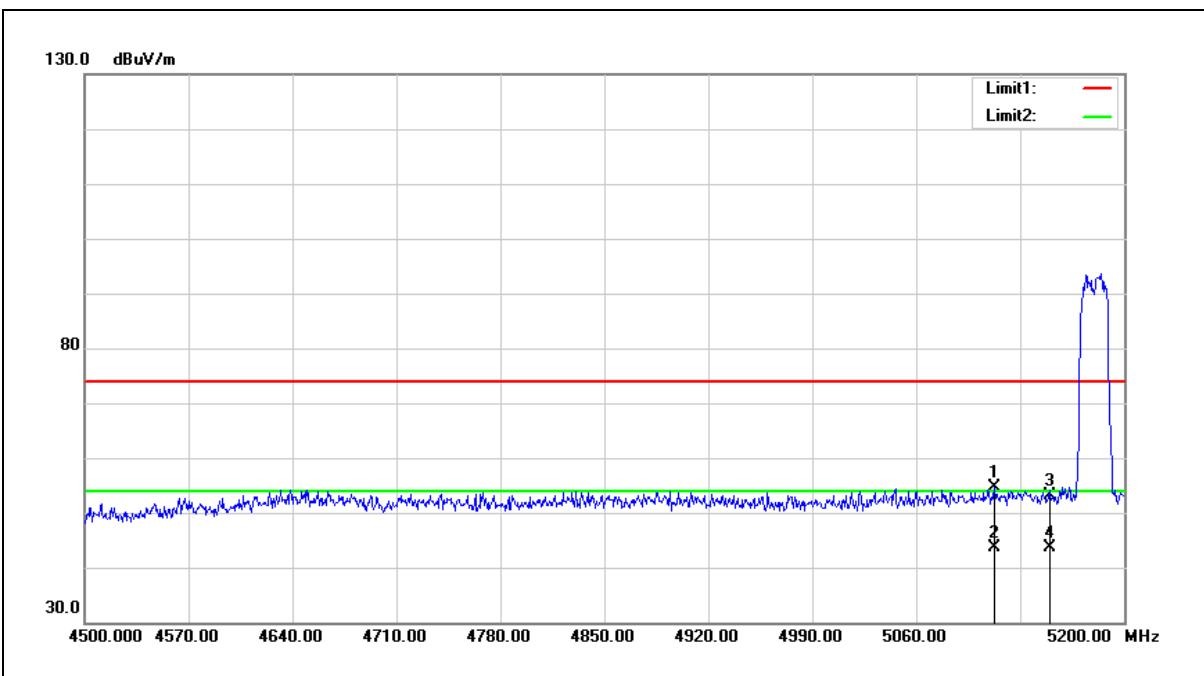
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5127.900	49.33	5.75	55.08	74.00	-18.92	peak
2	5127.900	37.99	5.75	43.74	54.00	-10.26	Avg
3	5150.000	45.88	5.78	51.66	74.00	-22.34	peak
4	5150.000	37.94	5.78	43.72	54.00	-10.28	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5180MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



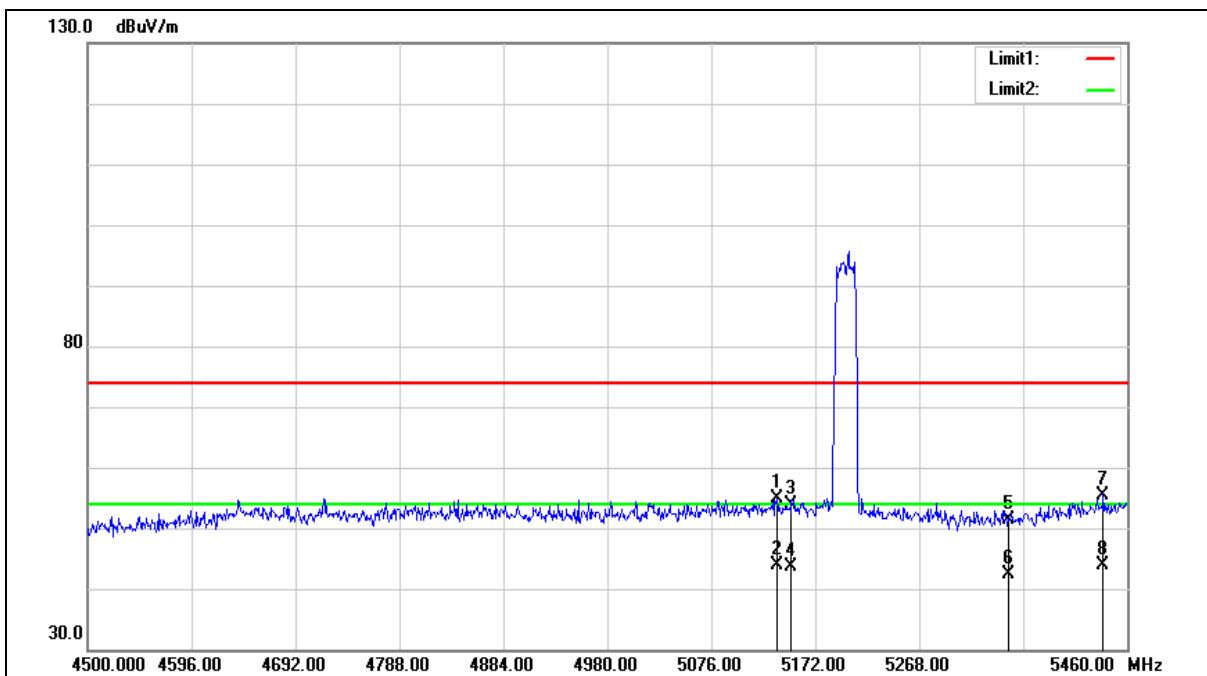
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5112.500	48.89	5.72	54.61	74.00	-19.39	peak
2	5112.500	37.90	5.72	43.62	54.00	-10.38	Avg
3	5150.000	47.27	5.78	53.05	74.00	-20.95	peak
4	5150.000	37.90	5.78	43.68	54.00	-10.32	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

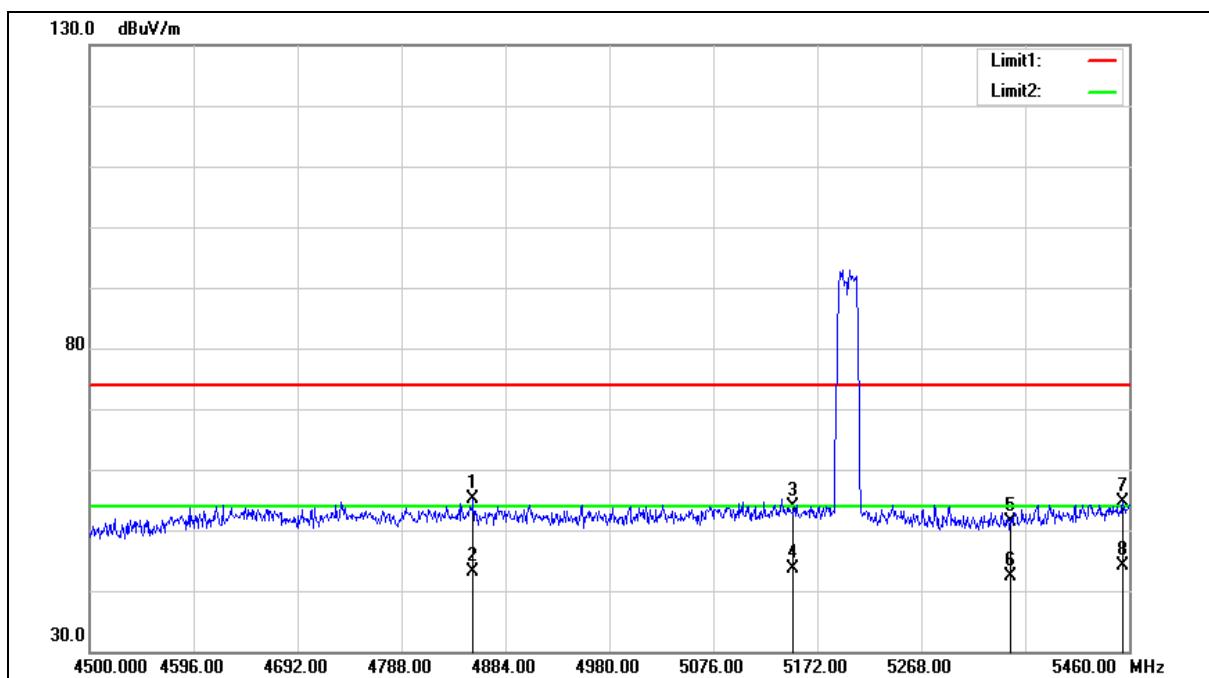
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5136.480	49.13	5.75	54.88	74.00	-19.12	peak
2	5136.480	38.08	5.75	43.83	54.00	-10.17	AVG
3	5150.000	48.17	5.78	53.95	74.00	-20.05	peak
4	5150.000	37.91	5.78	43.69	54.00	-10.31	AVG
5	5350.000	45.26	6.07	51.33	74.00	-22.67	peak
6	5350.000	36.22	6.07	42.29	54.00	-11.71	AVG
7	5437.920	49.30	6.20	55.50	74.00	-18.50	peak
8	5437.920	37.77	6.20	43.97	54.00	-10.03	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		





Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5200MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

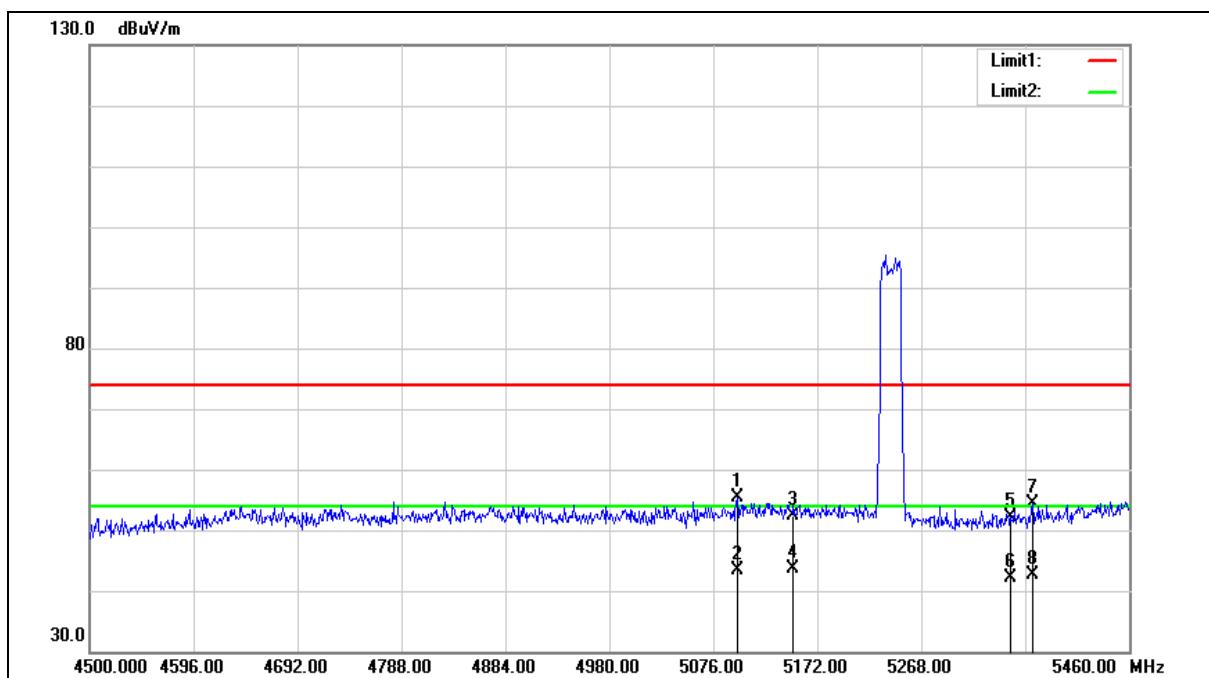
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4854.240	50.05	5.09	55.14	74.00	-18.86	peak
2	4854.240	37.96	5.09	43.05	54.00	-10.95	AVG
3	5150.000	48.09	5.78	53.87	74.00	-20.13	peak
4	5150.000	37.88	5.78	43.66	54.00	-10.34	AVG
5	5350.000	45.25	6.07	51.32	74.00	-22.68	peak
6	5350.000	36.24	6.07	42.31	54.00	-11.69	AVG
7	5454.240	48.37	6.22	54.59	74.00	-19.41	peak
8	5454.240	37.88	6.22	44.10	54.00	-9.90	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Horizontal		

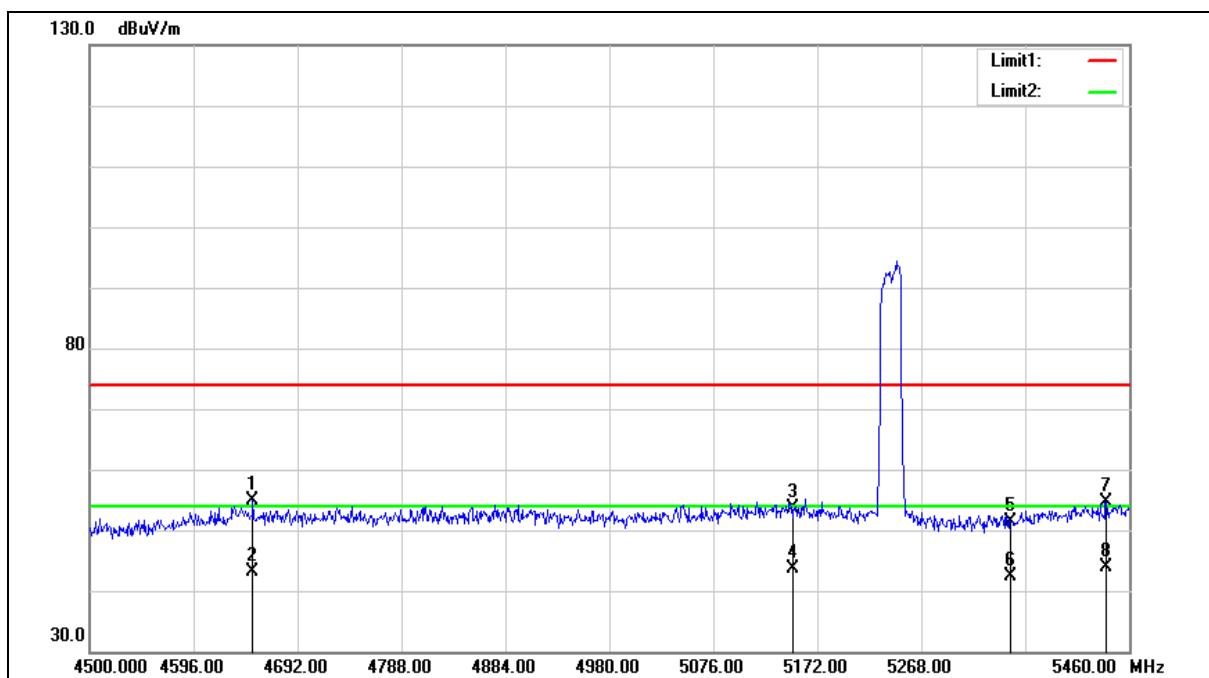
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5098.080	49.76	5.69	55.45	74.00	-18.55	peak
2	5098.080	37.80	5.69	43.49	54.00	-10.51	AVG
3	5150.000	46.71	5.78	52.49	74.00	-21.51	peak
4	5150.000	37.93	5.78	43.71	54.00	-10.29	AVG
5	5350.000	46.14	6.07	52.21	74.00	-21.79	peak
6	5350.000	35.98	6.07	42.05	54.00	-11.95	AVG
7	5370.720	48.39	6.10	54.49	74.00	-19.51	peak
8	5370.720	36.50	6.10	42.60	54.00	-11.40	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5240MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 3		
Ant.Polar.:	Vertical		

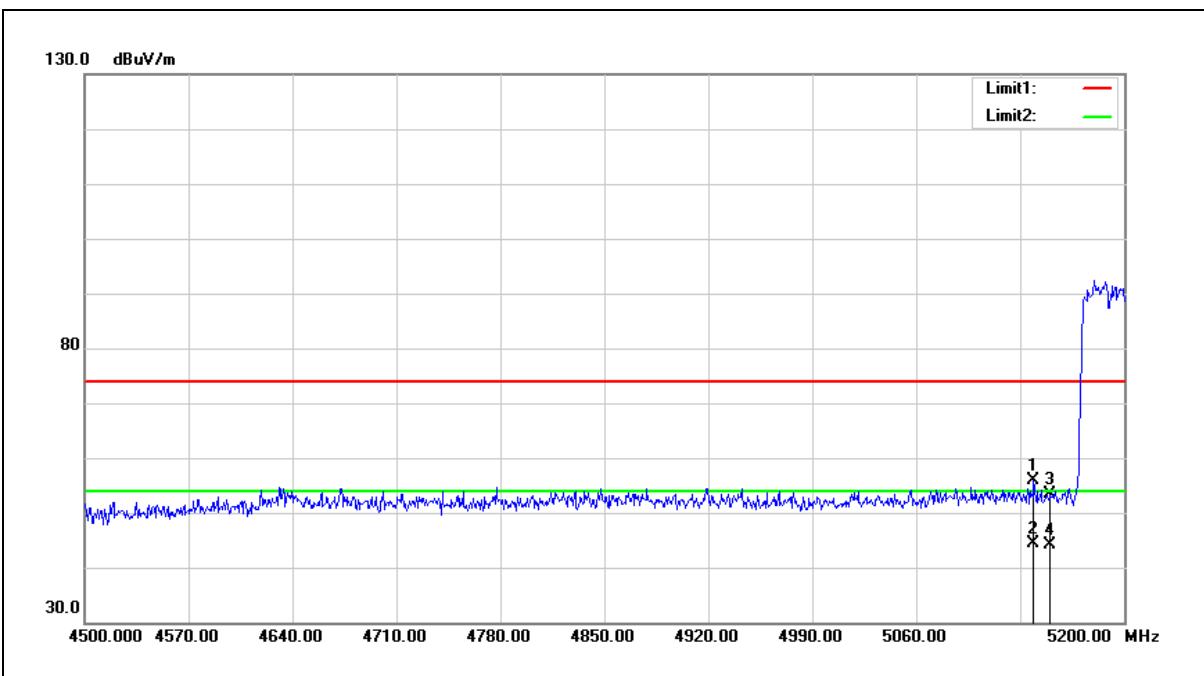
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4650.720	50.34	4.45	54.79	74.00	-19.21	peak
2	4650.720	38.77	4.45	43.22	54.00	-10.78	AVG
3	5150.000	47.76	5.78	53.54	74.00	-20.46	peak
4	5150.000	37.87	5.78	43.65	54.00	-10.35	AVG
5	5350.000	45.26	6.07	51.33	74.00	-22.67	peak
6	5350.000	36.24	6.07	42.31	54.00	-11.69	AVG
7	5438.880	48.50	6.20	54.70	74.00	-19.30	peak
8	5438.880	37.79	6.20	43.99	54.00	-10.01	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5190MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



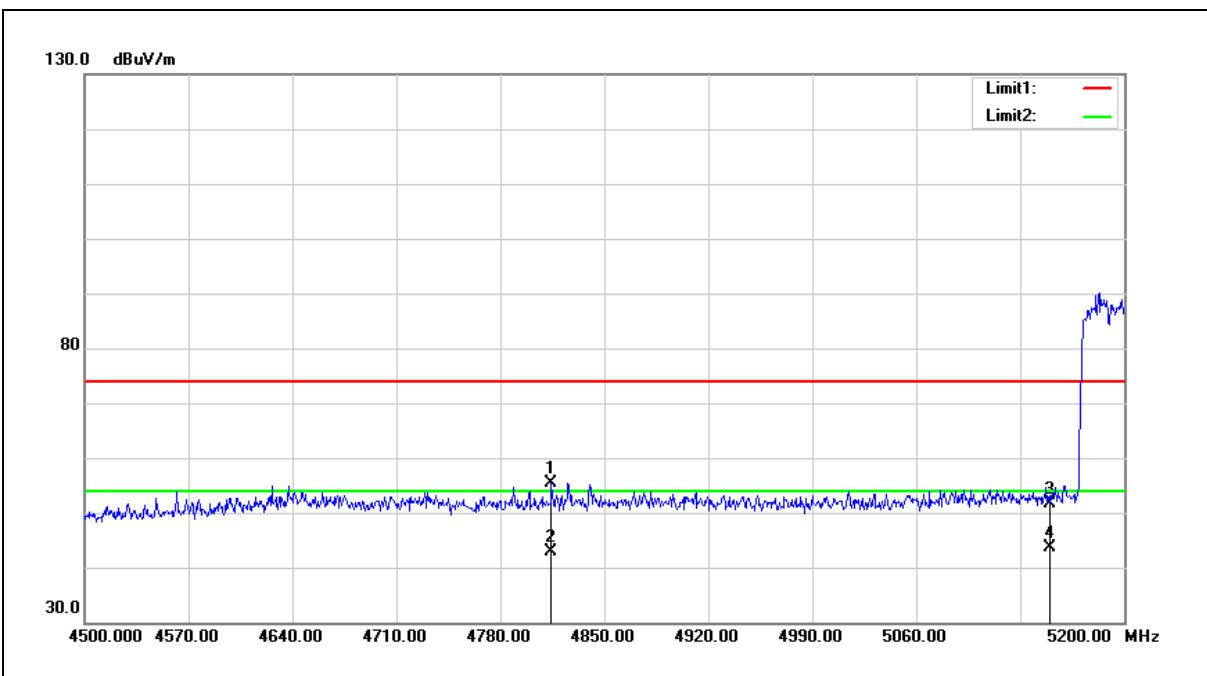
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5139.100	50.09	5.76	55.85	74.00	-18.15	peak
2	5139.100	38.68	5.76	44.44	54.00	-9.56	Avg
3	5150.000	47.67	5.78	53.45	74.00	-20.55	peak
4	5150.000	38.35	5.78	44.13	54.00	-9.87	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5190MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



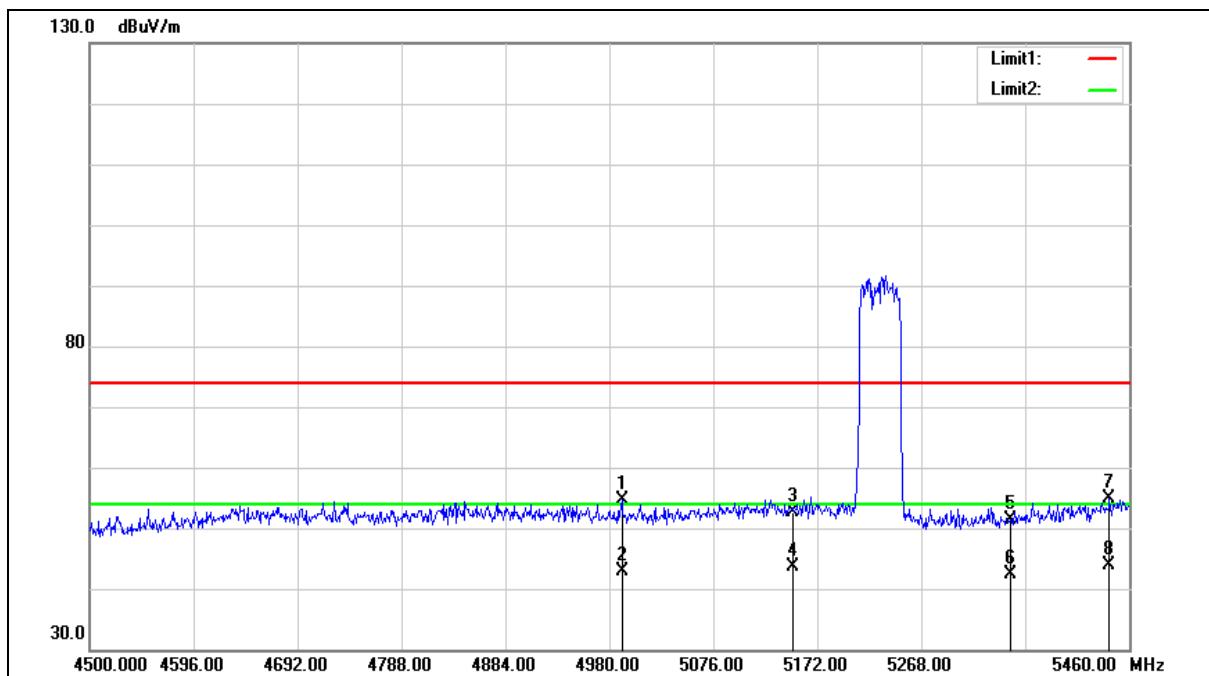
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4814.300	50.36	4.97	55.33	74.00	-18.67	peak
2	4814.300	37.99	4.97	42.96	54.00	-11.04	Avg
3	5150.000	45.86	5.78	51.64	74.00	-22.36	peak
4	5150.000	37.87	5.78	43.65	54.00	-10.35	Avg

Note: 1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correct factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5230MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5230MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Horizontal		

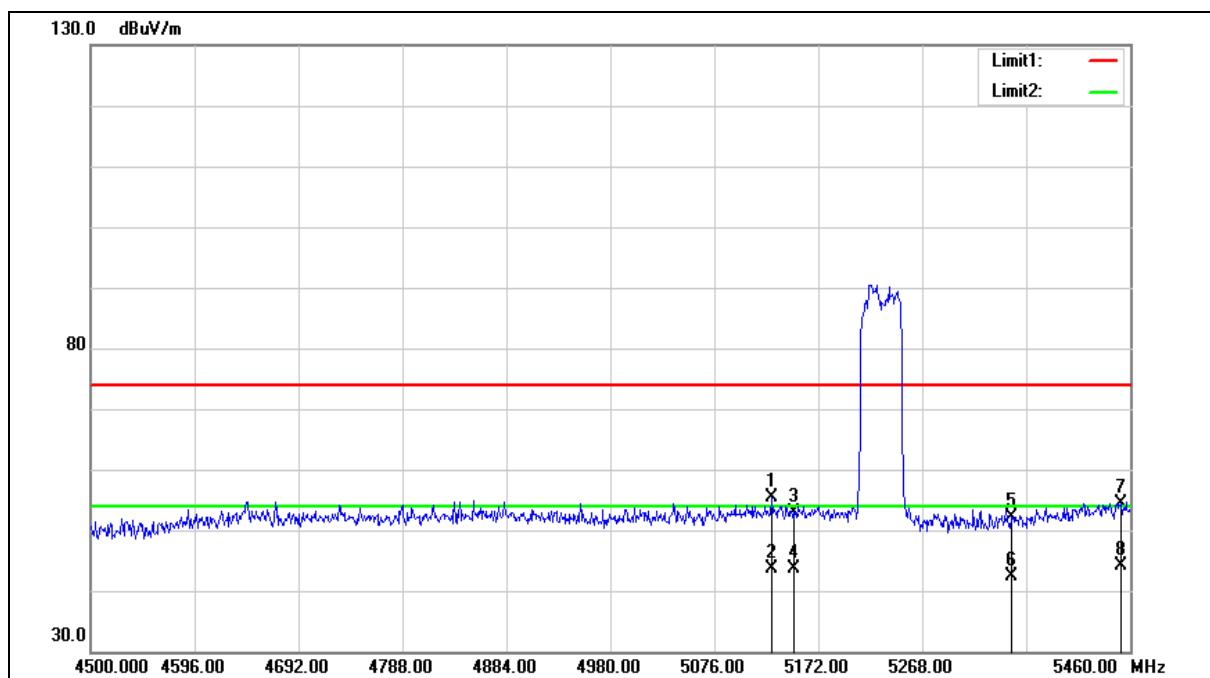
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4991.520	49.21	5.52	54.73	74.00	-19.27	peak
2	4991.520	37.31	5.52	42.83	54.00	-11.17	AVG
3	5150.000	46.84	5.78	52.62	74.00	-21.38	peak
4	5150.000	37.91	5.78	43.69	54.00	-10.31	AVG
5	5350.000	45.32	6.07	51.39	74.00	-22.61	peak
6	5350.000	36.23	6.07	42.30	54.00	-11.70	AVG
7	5441.760	48.59	6.21	54.80	74.00	-19.20	peak
8	5441.760	37.78	6.21	43.99	54.00	-10.01	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5230MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5230MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 4		
Ant.Polar.:	Vertical		

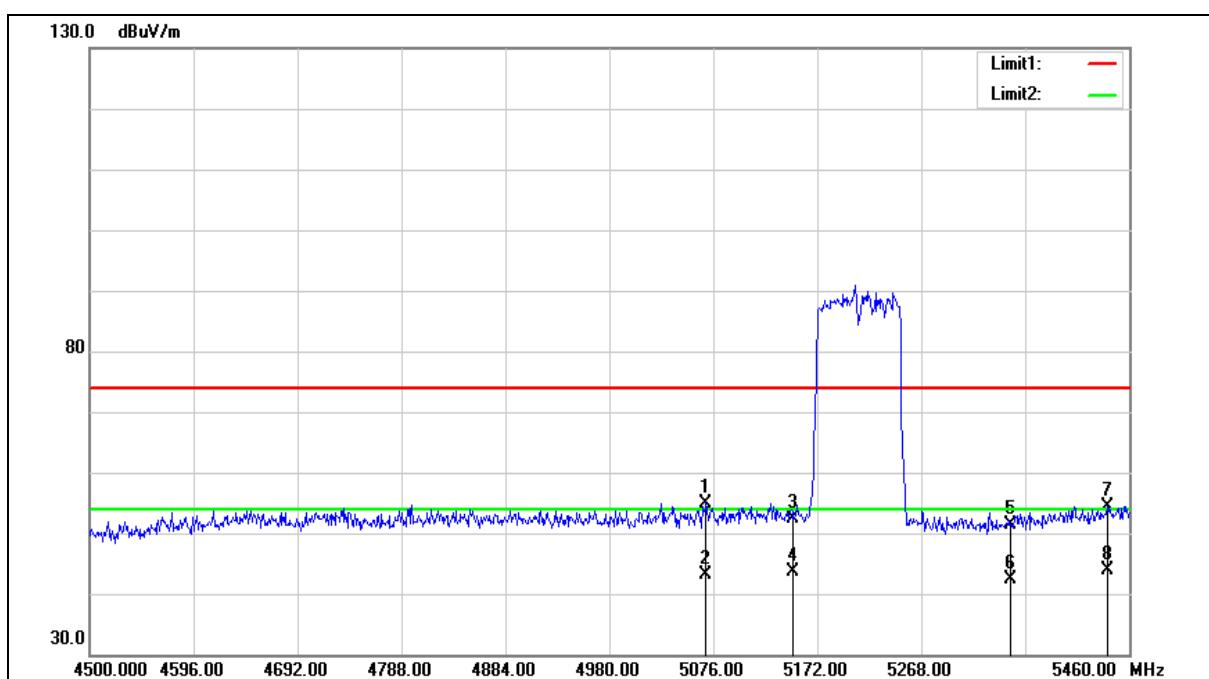
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5128.800	49.70	5.75	55.45	74.00	-18.55	peak
2	5128.800	37.92	5.75	43.67	54.00	-10.33	AVG
3	5150.000	46.99	5.78	52.77	74.00	-21.23	peak
4	5150.000	37.91	5.78	43.69	54.00	-10.31	AVG
5	5350.000	46.07	6.07	52.14	74.00	-21.86	peak
6	5350.000	36.23	6.07	42.30	54.00	-11.70	AVG
7	5451.360	48.17	6.22	54.39	74.00	-19.61	peak
8	5451.360	37.89	6.22	44.11	54.00	-9.89	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5210MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		





Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5210MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Horizontal		

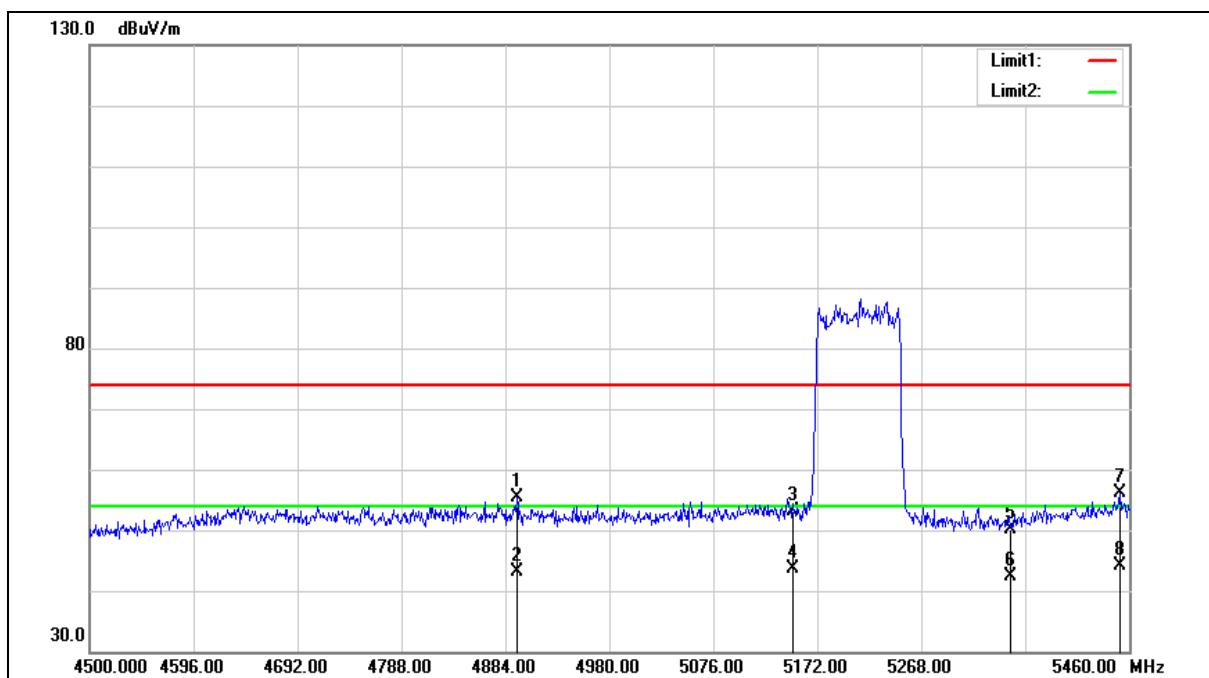
No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	5069.280	49.35	5.65	55.00	74.00	-19.00	peak
2	5069.280	37.56	5.65	43.21	54.00	-10.79	AVG
3	5150.000	46.59	5.78	52.37	74.00	-21.63	peak
4	5150.000	37.97	5.78	43.75	54.00	-10.25	AVG
5	5350.000	45.24	6.07	51.31	74.00	-22.69	peak
6	5350.000	36.20	6.07	42.27	54.00	-11.73	AVG
7	5439.840	48.24	6.20	54.44	74.00	-19.56	peak
8	5439.840	37.75	6.20	43.95	54.00	-10.05	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5210MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		



Standard:	FCC Part 15.407	Test Distance:	3m
Test item:	Band edge	Power:	AC 120V/60Hz
Frequency:	5210MHz	Temp.(°C)/Hum.(%RH):	26(°C)/60%RH
Mode:	Mode 5		
Ant.Polar.:	Vertical		

No.	Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	4894.560	50.16	5.22	55.38	74.00	-18.62	peak
2	4894.560	37.79	5.22	43.01	54.00	-10.99	AVG
3	5150.000	47.23	5.78	53.01	74.00	-20.99	peak
4	5150.000	37.94	5.78	43.72	54.00	-10.28	AVG
5	5350.000	44.18	6.07	50.25	74.00	-23.75	peak
6	5350.000	36.22	6.07	42.29	54.00	-11.71	AVG
7	5451.360	49.97	6.22	56.19	74.00	-17.81	peak
8	5451.360	37.88	6.22	44.10	54.00	-9.90	AVG

Note:1.Result (dBuV/m) = Correct Factor (dB/m) + Reading(dBuV).

2.Correction factor (dB/m) = Antenna Factor (dB/m) + Cable loss (dB) – Pre-Amplifier gain (dB).

3. When the peak results are less than average limit, so not need to evaluate the average.

5.3. Maximum Conducted Output Power & Additional Rule For Outdoor Operation Measurement

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 2: IEEE 802.11a Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180	6M	10.64	0.012	10.75	0.012	13.71	0.023	≤ 28.98	
5200		10.66	0.012	10.91	0.012	13.80	0.024		
5220		10.47	0.011	10.67	0.012	13.58	0.023		
5240		10.68	0.012	10.67	0.012	13.69	0.023		
5180	54M	10.35	0.011	10.52	0.011	13.45	0.022	≤ 28.98	
5200		10.41	0.011	10.61	0.012	13.52	0.022		
5220		10.22	0.011	10.40	0.011	13.32	0.021		
5240		10.42	0.011	10.38	0.011	13.41	0.022		

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180	13M	10.42	0.011	10.67	0.012	13.56	0.023	≤ 28.98	
5200		10.65	0.012	10.75	0.012	13.71	0.023		
5220		10.52	0.011	10.56	0.011	13.55	0.023		
5240		10.65	0.012	10.55	0.011	13.61	0.023		
5180	173.4M	10.15	0.010	10.39	0.011	13.28	0.021	≤ 28.98	
5200		10.42	0.011	10.51	0.011	13.48	0.022		
5220		10.30	0.011	10.30	0.011	13.31	0.021		
5240		10.38	0.011	10.25	0.011	13.33	0.022		

Note: The relevant measured result has the offset with cable loss already.

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 4: IEEE 802.11ac 40MHz Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5190	27M	10.89	0.012	10.98	0.013	13.95	0.025	≤ 28.98	
5230		10.54	0.011	10.74	0.012	13.65	0.023		
5190	400M	10.57	0.011	10.71	0.012	13.65	0.023	≤ 28.98	
5230		10.26	0.011	10.47	0.011	13.38	0.022		

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 5: IEEE 802.11ac 80MHz Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5210	58.6M	10.91	0.012	10.94	0.012	13.94	0.025	≤ 28.98	
5210	866.6M	10.65	0.012	10.71	0.012	13.69	0.023	≤ 28.98	

Note: The relevant measured result has the offset with cable loss already.

Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 2: IEEE 802.11a Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain	Max_EIRP		FCC Limit (dBm)	
		Max. Output Power (dBm)		(dBi)	(dBm)		
5180	6M	13.71	7.02	20.73	0.118	< 21	
5200		13.80	7.02	20.82	0.121		
5220		13.58	7.02	20.60	0.115		
5240		13.69	7.02	20.71	0.118		
5180	54M	13.45	7.02	20.47	0.111	< 21	
5200		13.52	7.02	20.54	0.113		
5220		13.32	7.02	20.34	0.108		
5240		13.41	7.02	20.43	0.110		

Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain	Max_EIRP		FCC Limit (dBm)	
		Max. Output Power (dBm)		(dBi)	(dBm)		
5180	13M	13.56	7.02	20.58	0.114	< 21	
5200		13.71	7.02	20.73	0.118		
5220		13.55	7.02	20.57	0.114		
5240		13.61	7.02	20.63	0.116		
5180	173.4M	13.28	7.02	20.30	0.107	< 21	
5200		13.48	7.02	20.50	0.112		
5220		13.31	7.02	20.33	0.108		
5240		13.33	7.02	20.35	0.108		

Note: The relevant measured result has the offset with cable loss already.



Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 4: IEEE 802.11ac 40MHz Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain		Max_EIRP		FCC Limit (dBm)
		Max. Output Power			(dBm)	(W)	
5190		13.95	(dBm)	7.02	20.97	0.125	
5230	27M	13.65	(dBm)	7.02	20.67	0.117	< 21
5190		13.65	(dBm)	7.02	20.67	0.117	< 21
5230	400M	13.38	(dBm)	7.02	20.40	0.110	

Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 5: IEEE 802.11ac 80MHz Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain		Max_EIRP		FCC Limit (dBm)
		Max. Output Power			(dBm)	(W)	
5210	58.6M	13.94	(dBm)	7.02	20.96	0.125	< 21
5210	866.6M	13.69	(dBm)	7.02	20.71	0.118	< 21

Note: The relevant measured result has the offset with cable loss already.

Beamforming on

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 2: IEEE 802.11a Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180	6M	7.56	0.006	7.68	0.006	10.63	0.012	≤ 28.98	
5200		7.33	0.005	7.36	0.005	10.36	0.011		
5220		7.23	0.005	7.17	0.005	10.21	0.010		
5240		7.23	0.005	7.34	0.005	10.30	0.011		
5180	54M	7.32	0.005	7.48	0.006	10.41	0.011	≤ 28.98	
5200		7.08	0.005	7.17	0.005	10.14	0.010		
5220		6.98	0.005	6.88	0.005	9.94	0.010		
5240		6.90	0.005	7.11	0.005	10.02	0.010		

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5180	13M	7.26	0.005	7.12	0.005	10.20	0.010	≤ 28.98	
5200		7.25	0.005	7.34	0.005	10.31	0.011		
5220		7.21	0.005	7.04	0.005	10.14	0.010		
5240		7.22	0.005	7.30	0.005	10.27	0.011		
5180	173.4M	6.98	0.005	6.88	0.005	9.94	0.010	≤ 28.98	
5200		7.00	0.005	7.12	0.005	10.07	0.010		
5220		6.92	0.005	6.82	0.005	9.88	0.010		
5240		7.00	0.005	7.11	0.005	10.07	0.010		

Note: The relevant measured result has the offset with cable loss already.

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 4: IEEE 802.11ac 40MHz Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5190	27M	7.80	0.006	7.85	0.006	10.84	0.012	≤ 28.64	
5230		7.17	0.005	7.12	0.005	10.16	0.010		
5190	400M	7.55	0.006	7.62	0.006	10.60	0.011	≤ 28.64	
5230		6.92	0.005	6.93	0.005	9.94	0.010		

Test Item		Maximum Conducted Output Power							
Test Mode		Mode 5: IEEE 802.11ac 80MHz Continuous TX mode							
Frequency (MHz)	Data Rate	ANT-0		ANT-1		ANT-0+1		FCC Limit (dBm)	
		Max. Output Power							
		(dBm)	(W)	(dBm)	(W)	(dBm)	(W)		
5210	58.6M	7.39	0.005	7.44	0.006	10.43	0.011	≤ 28.64	
5210	866.6M	7.11	0.005	7.20	0.005	10.17	0.010	≤ 28.64	

Note: The relevant measured result has the offset with cable loss already.

Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 2: IEEE 802.11a Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain	Max_EIRP		FCC Limit (dBm)	
		Max. Output Power (dBm)		(dBi)	(dBm)		
5180	6M	10.63	7.02	17.65	0.058	< 21	
5200		10.36	7.02	17.38	0.055		
5220		10.21	7.02	17.23	0.053		
5240		10.30	7.02	17.32	0.054		
5180	54M	10.41	7.02	17.43	0.055	< 21	
5200		10.14	7.02	17.16	0.052		
5220		9.94	7.02	16.96	0.050		
5240		10.02	7.02	17.04	0.051		

Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 3: IEEE 802.11ac 20MHz Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain	Max_EIRP		FCC Limit (dBm)	
		Max. Output Power (dBm)		(dBi)	(dBm)		
5180	13M	10.20	7.02	17.22	0.053	< 21	
5200		10.31	7.02	17.33	0.054		
5220		10.14	7.02	17.16	0.052		
5240		10.27	7.02	17.29	0.054		
5180	173.4M	9.94	7.02	16.96	0.050	< 21	
5200		10.07	7.02	17.09	0.051		
5220		9.88	7.02	16.90	0.049		
5240		10.07	7.02	17.09	0.051		

Note: The relevant measured result has the offset with cable loss already.



Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 4: IEEE 802.11ac 40MHz Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain		Max_EIRP		FCC Limit (dBm)
		Max. Output Power			(dBm)	(W)	
5190		10.84	7.02	17.86	0.061	< 21	
5230	27M	10.16	7.02	17.18	0.052		
5190		10.60	7.02	17.62	0.058	< 21	
5230		9.94	7.02	16.96	0.050		

Test Item		Max_EIRP at any elevation angle > 30° from horizon					
Test Mode		Mode 5: IEEE 802.11ac 80MHz Continuous TX mode					
Frequency (MHz)	Data Rate	ANT-0+1	Directional Gain		Max_EIRP		FCC Limit (dBm)
		Max. Output Power			(dBm)	(W)	
5210	58.6M	10.43	7.02	17.45	0.056	< 21	
5210	866.6M	10.17	7.02	17.19	0.052	< 21	

Note: The relevant measured result has the offset with cable loss already.

5.4. 26dB RF Bandwidth Measurement & 99 % Occupied Bandwidth Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	19.280	16.417	16.458	16.417
5200	19.520	16.437	15.457	16.437
5240	19.320	16.421	15.441	16.421

Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	20.210	20.320	17.628	17.653
5200	20.320	20.290	17.641	17.631
5240	20.660	20.480	17.625	17.638

Test Mode	Mode 4: IEEE 802.11ac 40MHz Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	40.260	39.970	36.084	36.051
5230	40.290	40.310	36.131	36.115

Test Mode	Mode 5: IEEE 802.11ac 80MHz Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5210	83.860	82.630	75.777	75.662

Note: The 99% occupied bandwidth not crossed 5250MHz.

Beamforming on

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	19.620	18.950	16.453	16.412
5200	19.480	19.240	16.455	16.439
5240	19.340	19.120	16.467	16.436

Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	20.110	20.160	17.627	17.626
5200	20.110	20.380	17.619	17.645
5240	20.380	20.330	17.625	17.636

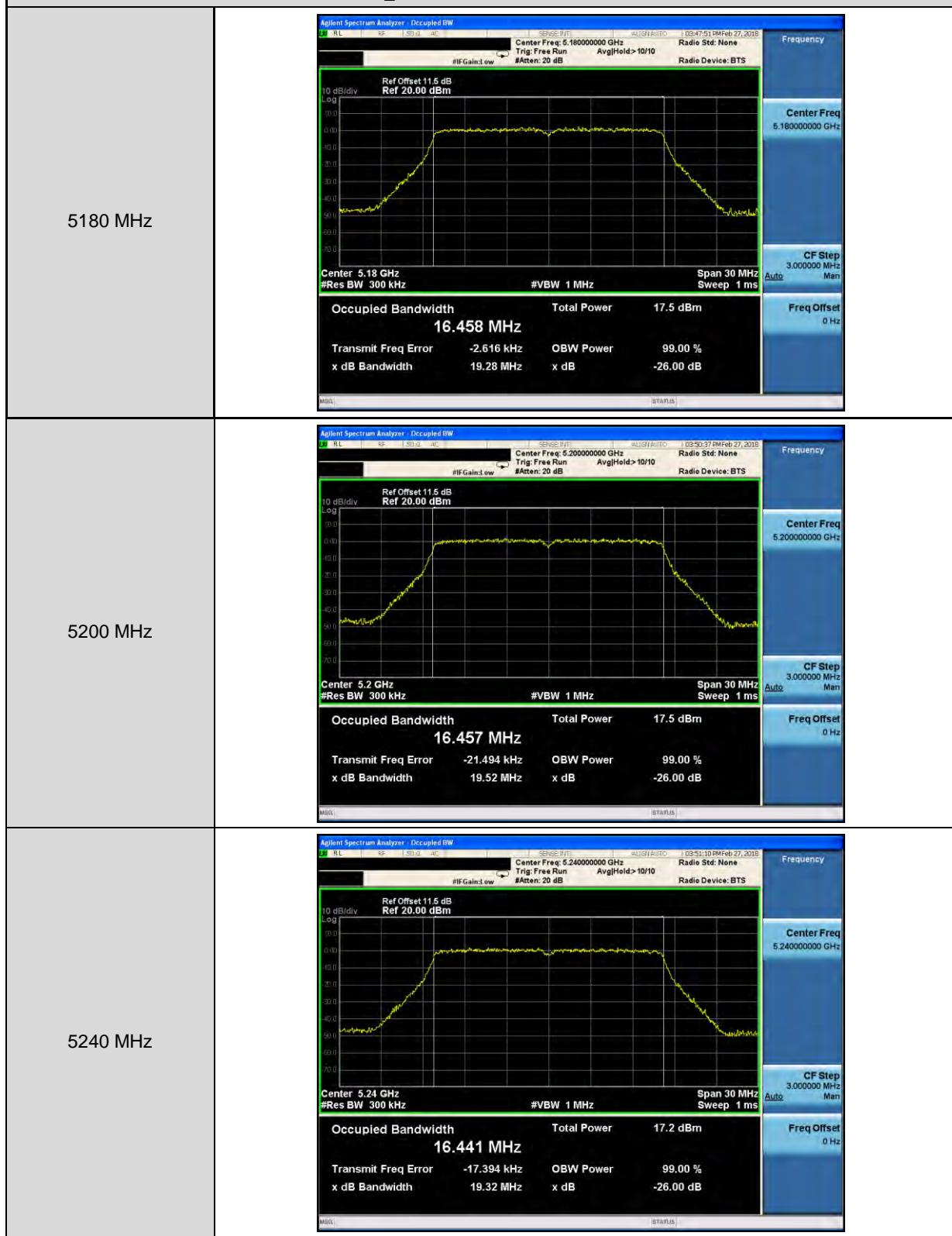
Test Mode	Mode 4: IEEE 802.11ac 40MHz Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	40.160	40.040	36.068	35.995
5230	40.050	40.240	36.005	36.080

Test Mode	Mode 5: IEEE 802.11ac 80MHz Continuous TX mode			
Frequency (MHz)	ANT-0	ANT-1	ANT-0	ANT-1
	26dB Bandwidth (MHz)	26dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5210	82.840	83.390	75.663	75.705

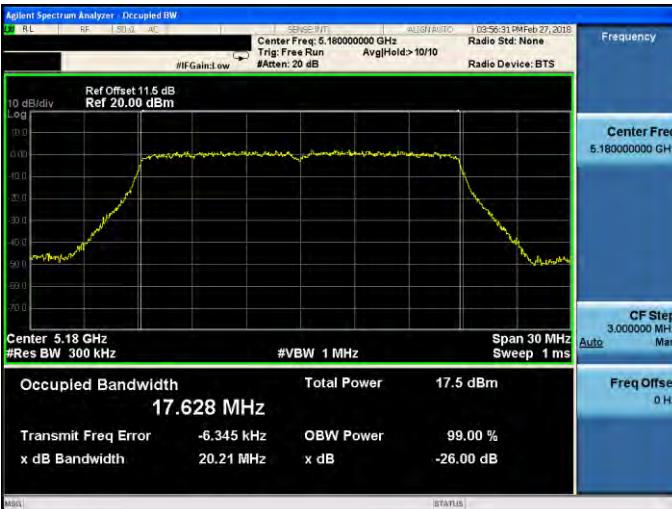
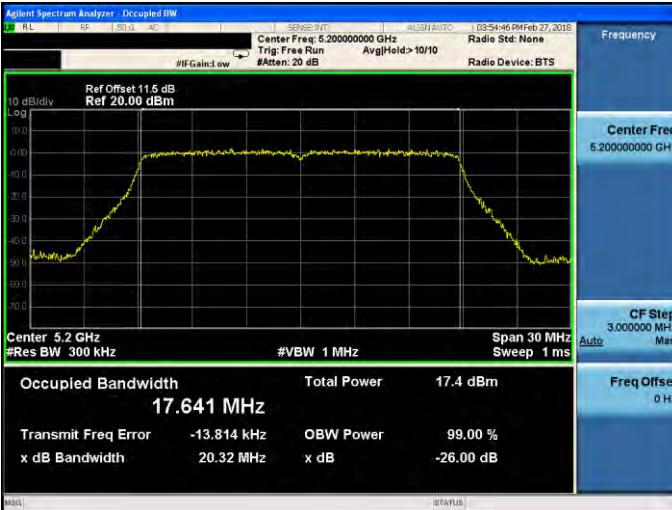
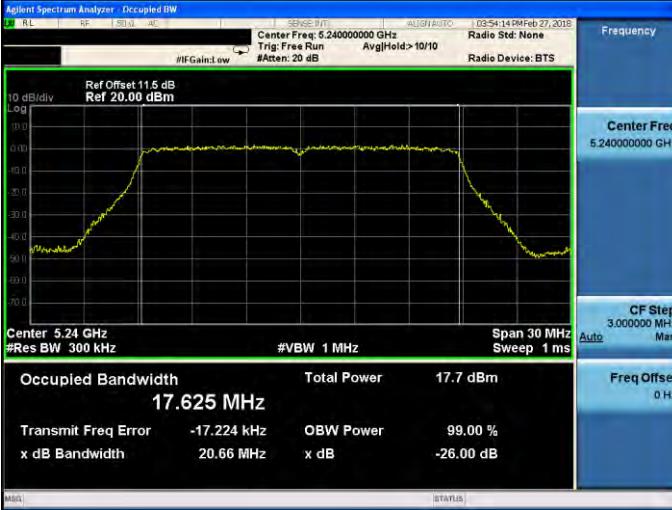
Note: The 99% occupied bandwidth not crossed 5250MHz.

■ Test Graphs

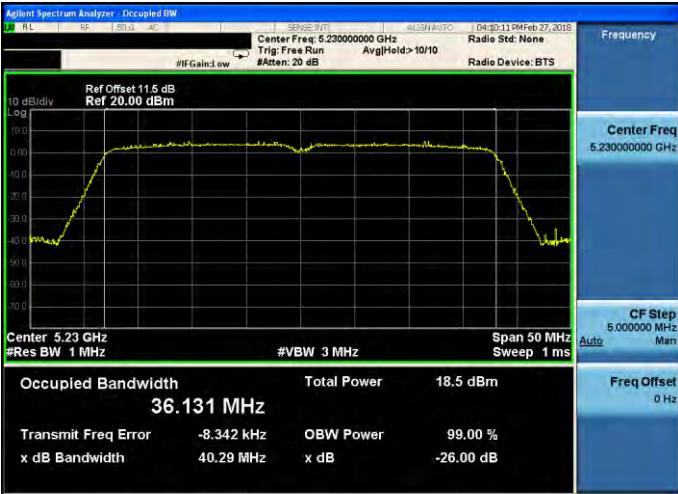
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0



Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-0

5180 MHz	 <p>Occupied Bandwidth 17.628 MHz Transmit Freq Error -6.345 kHz x dB Bandwidth 20.21 MHz</p> <p>Total Power 17.5 dBm OBW Power 99.00 % x dB -26.00 dB</p>
5200 MHz	 <p>Occupied Bandwidth 17.641 MHz Transmit Freq Error -13.814 kHz x dB Bandwidth 20.32 MHz</p> <p>Total Power 17.4 dBm OBW Power 99.00 % x dB -26.00 dB</p>
5240 MHz	 <p>Occupied Bandwidth 17.625 MHz Transmit Freq Error -17.224 kHz x dB Bandwidth 20.66 MHz</p> <p>Total Power 17.7 dBm OBW Power 99.00 % x dB -26.00 dB</p>

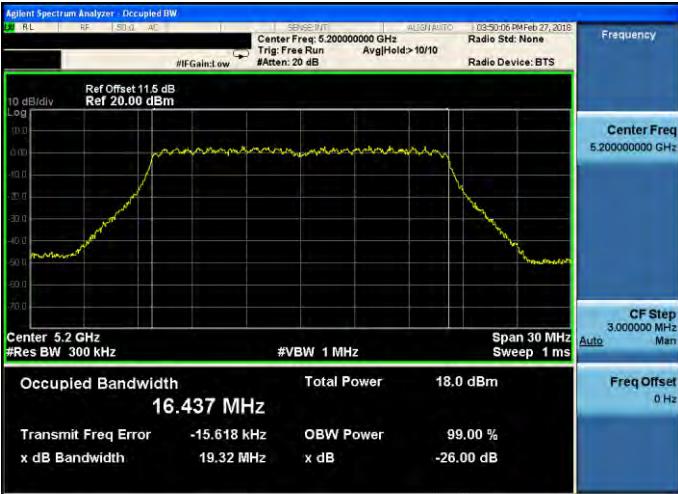
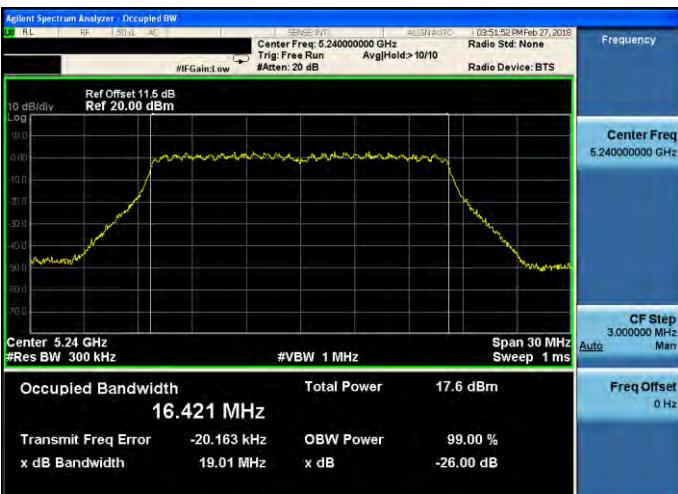
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0

5190 MHz	 <p>Occupied Bandwidth 36.084 MHz Transmit Freq Error 12.737 kHz x dB Bandwidth 40.26 MHz</p> <p>Total Power 18.8 dBm OBW Power 99.00 % x dB -26.00 dB</p>
5230 MHz	 <p>Occupied Bandwidth 36.131 MHz Transmit Freq Error -8.342 kHz x dB Bandwidth 40.29 MHz</p> <p>Total Power 18.5 dBm OBW Power 99.00 % x dB -26.00 dB</p>

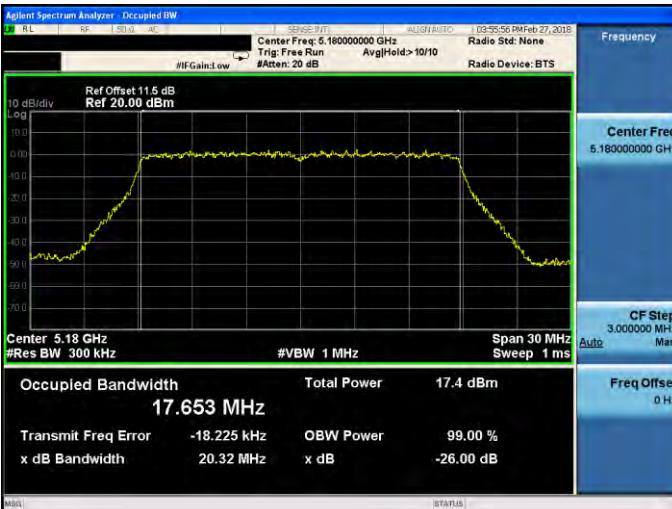
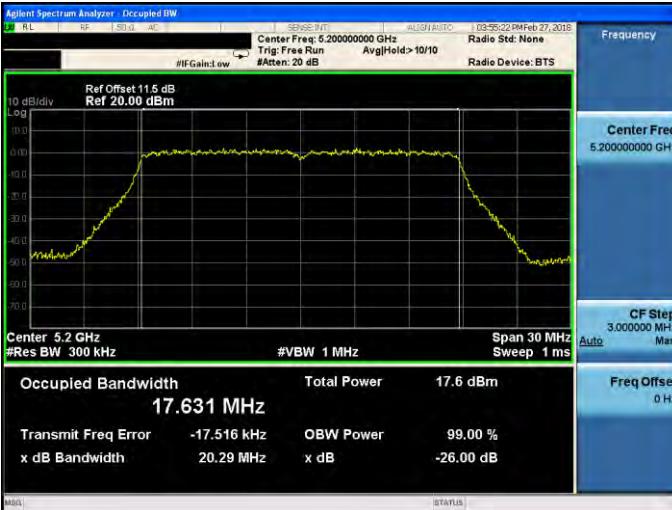
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-0

5210 MHz	 <p>Occupied Bandwidth 75.777 MHz Transmit Freq Error 43.780 kHz x dB Bandwidth 83.86 MHz</p> <p>Total Power 19.2 dBm OBW Power 99.00 % x dB -26.00 dB</p>
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Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1

5180 MHz	 <p>Occupied Bandwidth 16.417 MHz Transmit Freq Error -6.722 kHz x dB Bandwidth 19.16 MHz</p> <p>Total Power 18.1 dBm OBW Power 99.00 % x dB -26.00 dB</p>
5200 MHz	 <p>Occupied Bandwidth 16.437 MHz Transmit Freq Error -15.618 kHz x dB Bandwidth 19.32 MHz</p> <p>Total Power 18.0 dBm OBW Power 99.00 % x dB -26.00 dB</p>
5240 MHz	 <p>Occupied Bandwidth 16.421 MHz Transmit Freq Error -20.163 kHz x dB Bandwidth 19.01 MHz</p> <p>Total Power 17.6 dBm OBW Power 99.00 % x dB -26.00 dB</p>

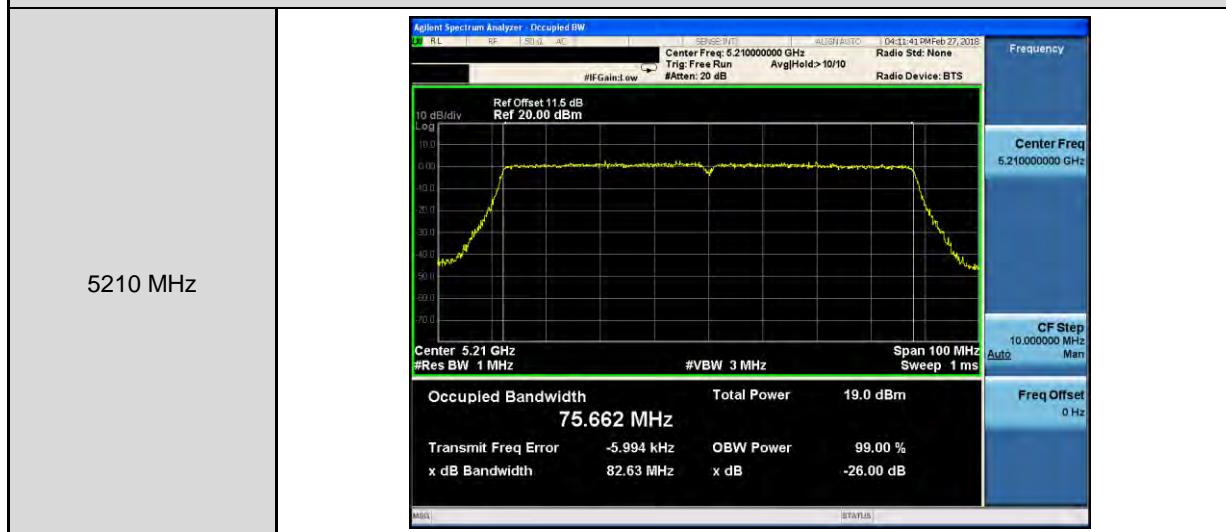
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-1

5180 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz SENSE: WFM ALIGN:AUTO D3:55:56 PM Feb 27, 2018 #IFGain:Low Trig:Free Run AvgHold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.000000 MHz Man</p> <p>Frequency: Center Freq 5.180000000 GHz</p> <p>Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.653 MHz Total Power: 17.4 dBm</p> <p>Transmit Freq Error: -18.225 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.32 MHz x dB: -26.00 dB</p> <p>MENU STATUS</p>
5200 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz SENSE: WFM ALIGN:AUTO D3:55:22 PM Feb 27, 2018 #IFGain:Low Trig:Free Run AvgHold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.000000 MHz Man</p> <p>Frequency: Center Freq 5.200000000 GHz</p> <p>Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.631 MHz Total Power: 17.6 dBm</p> <p>Transmit Freq Error: -17.516 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.29 MHz x dB: -26.00 dB</p> <p>MENU STATUS</p>
5240 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz SENSE: WFM ALIGN:AUTO D3:55:15 PM Feb 27, 2018 #IFGain:Low Trig:Free Run AvgHold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.000000 MHz Man</p> <p>Frequency: Center Freq 5.240000000 GHz</p> <p>Span 30 MHz Sweep 1 ms</p> <p>Occupied Bandwidth: 17.638 MHz Total Power: 17.4 dBm</p> <p>Transmit Freq Error: -23.841 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.48 MHz x dB: -26.00 dB</p> <p>MENU STATUS</p>

Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-1

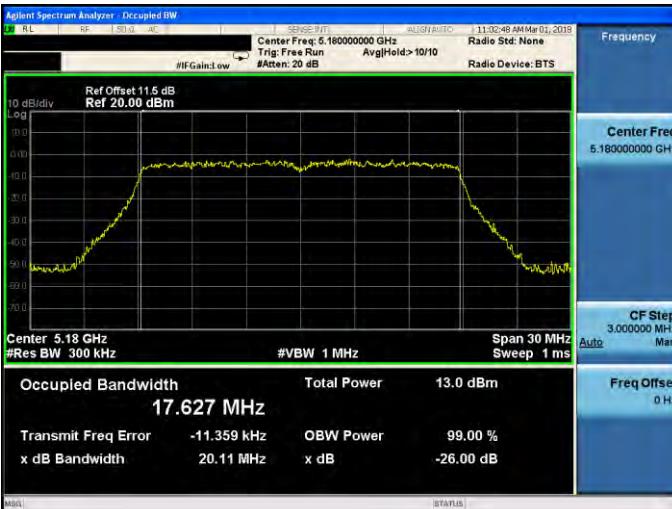


Beamforming on

Mode 2: IEEE 802.11a Continuous TX mode_ ANT-0

5180 MHz	 <p>Occupied Bandwidth 16.453 MHz</p> <table border="1"> <tr> <td>Transmit Freq Error</td> <td>-2.543 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.62 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>	Transmit Freq Error	-2.543 kHz	OBW Power	99.00 %	x dB Bandwidth	19.62 MHz	x dB	-26.00 dB	
Transmit Freq Error	-2.543 kHz	OBW Power	99.00 %							
x dB Bandwidth	19.62 MHz	x dB	-26.00 dB							
5200 MHz	 <p>Occupied Bandwidth 16.455 MHz</p> <table border="1"> <tr> <td>Transmit Freq Error</td> <td>-16.131 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.48 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>	Transmit Freq Error	-16.131 kHz	OBW Power	99.00 %	x dB Bandwidth	19.48 MHz	x dB	-26.00 dB	
Transmit Freq Error	-16.131 kHz	OBW Power	99.00 %							
x dB Bandwidth	19.48 MHz	x dB	-26.00 dB							
5240 MHz	 <p>Occupied Bandwidth 16.467 MHz</p> <table border="1"> <tr> <td>Transmit Freq Error</td> <td>-21.497 kHz</td> <td>OBW Power</td> <td>99.00 %</td> </tr> <tr> <td>x dB Bandwidth</td> <td>19.34 MHz</td> <td>x dB</td> <td>-26.00 dB</td> </tr> </table>	Transmit Freq Error	-21.497 kHz	OBW Power	99.00 %	x dB Bandwidth	19.34 MHz	x dB	-26.00 dB	
Transmit Freq Error	-21.497 kHz	OBW Power	99.00 %							
x dB Bandwidth	19.34 MHz	x dB	-26.00 dB							

Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-0

5180 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz SENSE: WFM ALIGN/AUTO: 11:34:48 AM Mar 01, 2018 #IFGain:Low Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 5.18 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <table border="1"> <tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.0 dBm</td></tr> <tr><td colspan="3">17.627 MHz</td></tr> <tr><td>Transmit Freq Error</td><td>-11.359 kHz</td><td>OBW Power</td><td>99.00 %</td></tr> <tr><td>x dB Bandwidth</td><td>20.11 MHz</td><td>x dB</td><td>-26.00 dB</td></tr> </table>	Occupied Bandwidth	Total Power	13.0 dBm	17.627 MHz			Transmit Freq Error	-11.359 kHz	OBW Power	99.00 %	x dB Bandwidth	20.11 MHz	x dB	-26.00 dB
Occupied Bandwidth	Total Power	13.0 dBm													
17.627 MHz															
Transmit Freq Error	-11.359 kHz	OBW Power	99.00 %												
x dB Bandwidth	20.11 MHz	x dB	-26.00 dB												
5200 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz SENSE: WFM ALIGN/AUTO: 11:34:22 AM Mar 01, 2018 #IFGain:Low Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 5.2 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <table border="1"> <tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.5 dBm</td></tr> <tr><td colspan="3">17.619 MHz</td></tr> <tr><td>Transmit Freq Error</td><td>-16.871 kHz</td><td>OBW Power</td><td>99.00 %</td></tr> <tr><td>x dB Bandwidth</td><td>20.11 MHz</td><td>x dB</td><td>-26.00 dB</td></tr> </table>	Occupied Bandwidth	Total Power	13.5 dBm	17.619 MHz			Transmit Freq Error	-16.871 kHz	OBW Power	99.00 %	x dB Bandwidth	20.11 MHz	x dB	-26.00 dB
Occupied Bandwidth	Total Power	13.5 dBm													
17.619 MHz															
Transmit Freq Error	-16.871 kHz	OBW Power	99.00 %												
x dB Bandwidth	20.11 MHz	x dB	-26.00 dB												
5240 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz SENSE: WFM ALIGN/AUTO: 11:34:51 AM Mar 01, 2018 #IFGain:Low Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>10 dB/div Log</p> <p>Center 5.24 GHz #Res BW: 300 kHz #VBW: 1 MHz Span: 30 MHz Sweep: 1 ms</p> <table border="1"> <tr><td>Occupied Bandwidth</td><td>Total Power</td><td>13.1 dBm</td></tr> <tr><td colspan="3">17.625 MHz</td></tr> <tr><td>Transmit Freq Error</td><td>-16.385 kHz</td><td>OBW Power</td><td>99.00 %</td></tr> <tr><td>x dB Bandwidth</td><td>20.38 MHz</td><td>x dB</td><td>-26.00 dB</td></tr> </table>	Occupied Bandwidth	Total Power	13.1 dBm	17.625 MHz			Transmit Freq Error	-16.385 kHz	OBW Power	99.00 %	x dB Bandwidth	20.38 MHz	x dB	-26.00 dB
Occupied Bandwidth	Total Power	13.1 dBm													
17.625 MHz															
Transmit Freq Error	-16.385 kHz	OBW Power	99.00 %												
x dB Bandwidth	20.38 MHz	x dB	-26.00 dB												

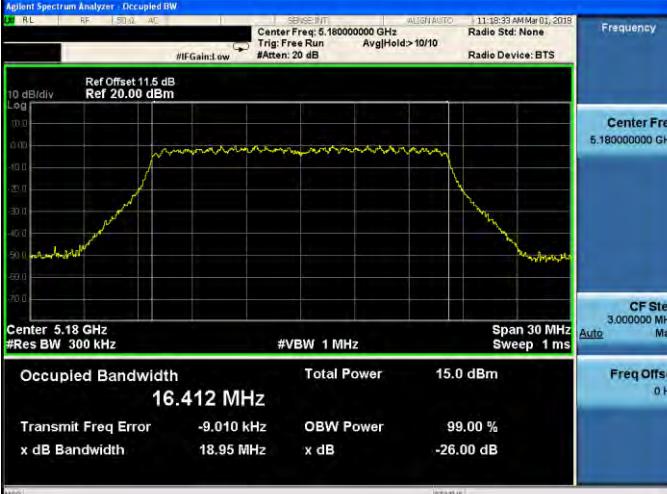
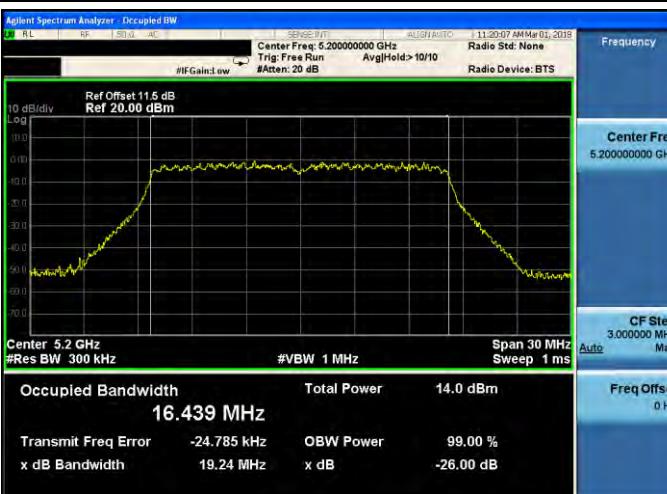
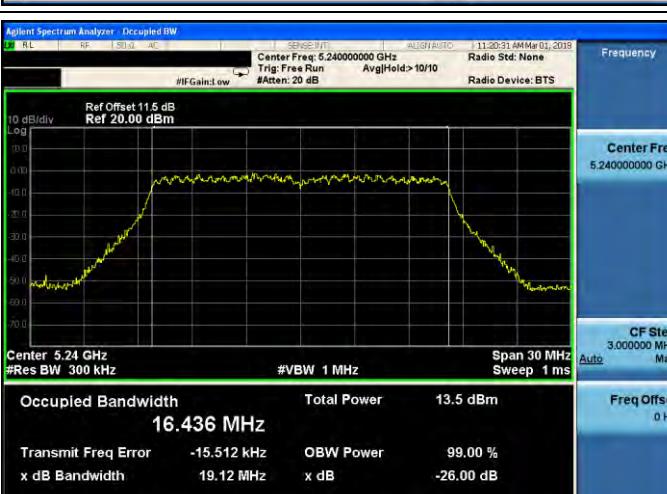
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0



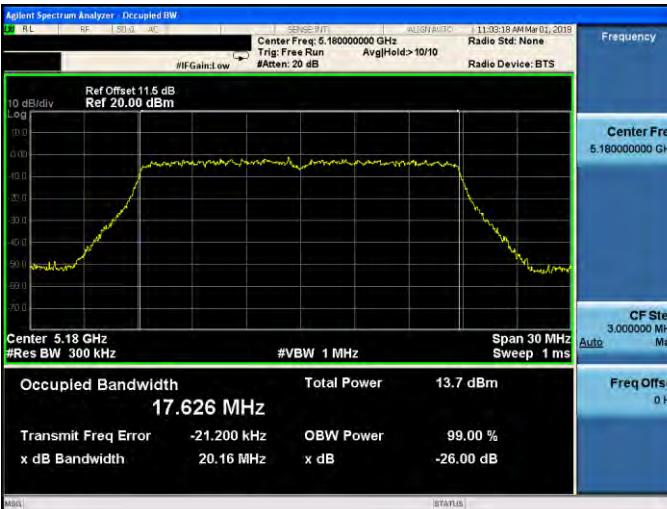
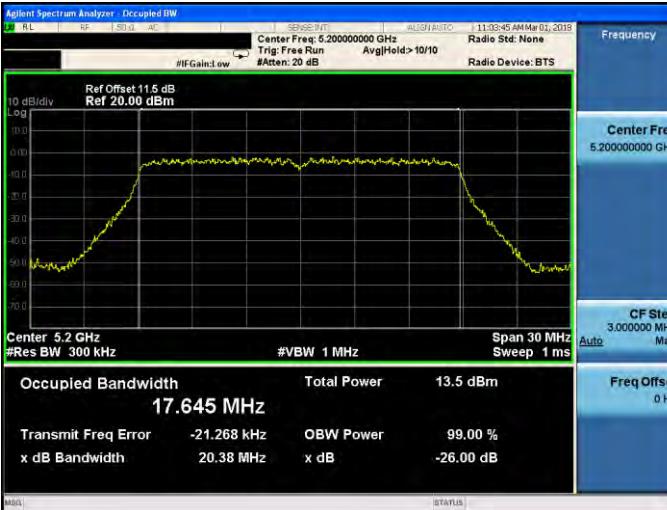
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-0



Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1

5180 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz SENSE: WFM ALIGN/AUTO: 11:18:33 AM Mar 01, 2018 Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.00000 MHz Man</p> <p>Frequency: 5.180000000 GHz</p> <p>Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.412 MHz Total Power: 15.0 dBm</p> <p>Transmit Freq Error: -9.010 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 18.95 MHz x dB: -26.00 dB</p> <p>MENU STATUS</p>
5200 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz SENSE: WFM ALIGN/AUTO: 11:20:07 AM Mar 01, 2018 Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.00000 MHz Man</p> <p>Frequency: 5.200000000 GHz</p> <p>Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.439 MHz Total Power: 14.0 dBm</p> <p>Transmit Freq Error: -24.785 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.24 MHz x dB: -26.00 dB</p> <p>MENU STATUS</p>
5240 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz SENSE: WFM ALIGN/AUTO: 11:20:31 AM Mar 01, 2018 Trig: Free Run Avg/Hold>10/10 Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.00000 MHz Man</p> <p>Frequency: 5.240000000 GHz</p> <p>Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 16.436 MHz Total Power: 13.5 dBm</p> <p>Transmit Freq Error: -15.512 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 19.12 MHz x dB: -26.00 dB</p> <p>MENU STATUS</p>

Mode 3: IEEE 802.11ac 20MHz Continuous TX mode_ ANT-1

5180 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.180000000 GHz Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.00000 MHz Man</p> <p>Frequency: 5.180000000 GHz</p> <p>Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.626 MHz</p> <p>Total Power: 13.7 dBm</p> <p>Transmit Freq Error: -21.200 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.16 MHz x dB: -26.00 dB</p> <p>Ref Offset: 0.0 Hz</p>
5200 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.200000000 GHz Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.00000 MHz Man</p> <p>Frequency: 5.200000000 GHz</p> <p>Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.645 MHz</p> <p>Total Power: 13.5 dBm</p> <p>Transmit Freq Error: -21.268 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.38 MHz x dB: -26.00 dB</p> <p>Ref Offset: 0.0 Hz</p>
5240 MHz	 <p>Agilent Spectrum Analyzer - Occupied BW</p> <p>Center Freq: 5.240000000 GHz Radio Std: None Radio Device: BTS</p> <p>Ref Offset: 11.5 dB Ref: 20.00 dBm</p> <p>CF Step: 3.00000 MHz Man</p> <p>Frequency: 5.240000000 GHz</p> <p>Span: 30 MHz Sweep: 1 ms</p> <p>Occupied Bandwidth: 17.636 MHz</p> <p>Total Power: 13.5 dBm</p> <p>Transmit Freq Error: -20.028 kHz OBW Power: 99.00 %</p> <p>x dB Bandwidth: 20.33 MHz x dB: -26.00 dB</p> <p>Ref Offset: 0.0 Hz</p>

Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1

5190 MHz	 <p>Occupied Bandwidth Total Power 35.995 MHz Transmit Freq Error OBW Power x dB Bandwidth 40.04 MHz x dB 99.00 % x dB -26.00 dB</p>
5230 MHz	 <p>Occupied Bandwidth Total Power 36.080 MHz Transmit Freq Error OBW Power x dB Bandwidth 40.24 MHz x dB 99.00 % x dB -26.00 dB</p>

Mode 5: IEEE 802.11ac 80MHz Continuous TX mode_ ANT-1

5210 MHz	 <p>Occupied Bandwidth Total Power 75.705 MHz Transmit Freq Error OBW Power x dB Bandwidth 83.39 MHz x dB 99.00 % x dB -26.00 dB</p>
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5.5. Maximum Power Spectral Density Measurement

Test Mode	Mode 2: IEEE 802.11a Continuous TX mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	0.058	0.105	0.163	< 15.98	
5200	0.204	0.105	0.309		
5240	-0.147	0.105	-0.042		
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	0.100	0.105	0.205	< 15.98	
5200	0.190	0.105	0.295		
5240	0.136	0.105	0.241		
Frequency (MHz)	ANT-0+1				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
5180	3.195			< 15.98	
5200	3.312				
5240	3.112				

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-0.226	0.026	-0.200	< 15.98	
5200	-0.383	0.026	-0.357		
5240	-0.784	0.026	-0.758		
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	0.103	0.026	0.129	< 15.98	
5200	0.157	0.026	0.183		
5240	-0.682	0.026	-0.656		
Frequency (MHz)	ANT-0+1				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
5180	2.978			< 15.98	
5200	2.932				
5240	2.304				

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Test Mode	Mode 4: IEEE 802.11ac 40MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-2.924	0.071	-2.853	< 15.98
5230	-3.457	0.071	-3.386	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-2.551	0.071	-2.480	< 15.98
5230	-3.141	0.071	-3.070	
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5190	0.347			< 15.98
5230	-0.215			

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Test Mode	Mode 5: IEEE 802.11ac 80MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-6.291	0.185	-6.106	< 15.98
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-5.954	0.185	-5.769	< 15.98
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	2.924			< 15.98

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Beamforming on					
Test Mode	Mode 2: IEEE 802.11a Continuous TX mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
	5180	-2.978	0.105	-2.873	
	5200	-3.457	0.105	-3.352	
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
	5180	-2.935	0.105	-2.830	
	5200	-3.379	0.105	-3.274	
Frequency (MHz)	ANT-0+1				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
	5180	0.159		< 15.98	
	5200	-0.302			
	5240	-0.633			

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Test Mode	Mode 3: IEEE 802.11ac 20MHz Continuous TX mode				
Frequency (MHz)	ANT-0				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-3.905	0.026	-3.879	< 15.98	
5200	-4.070	0.026	-4.044		
5240	-4.336	0.026	-4.310		
Frequency (MHz)	ANT-1				
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)	
5180	-3.645	0.026	-3.619	< 15.98	
5200	-3.773	0.026	-3.747		
5240	-3.915	0.026	-3.889		
Frequency (MHz)	ANT-0+1				
	Calculated (dBm/MHz)			Limit (dBm/MHz)	
5180	-0.737			< 15.98	
5200	-0.883				
5240	-1.084				

Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Test Mode	Mode 4: IEEE 802.11ac 40MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-5.489	0.071	-5.418	< 15.98
5230	-6.844	0.071	-6.773	
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5190	-5.809	0.071	-5.738	< 15.98
5230	-6.840	0.071	-6.769	
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5190	-2.565			< 15.98
5230	-3.761			

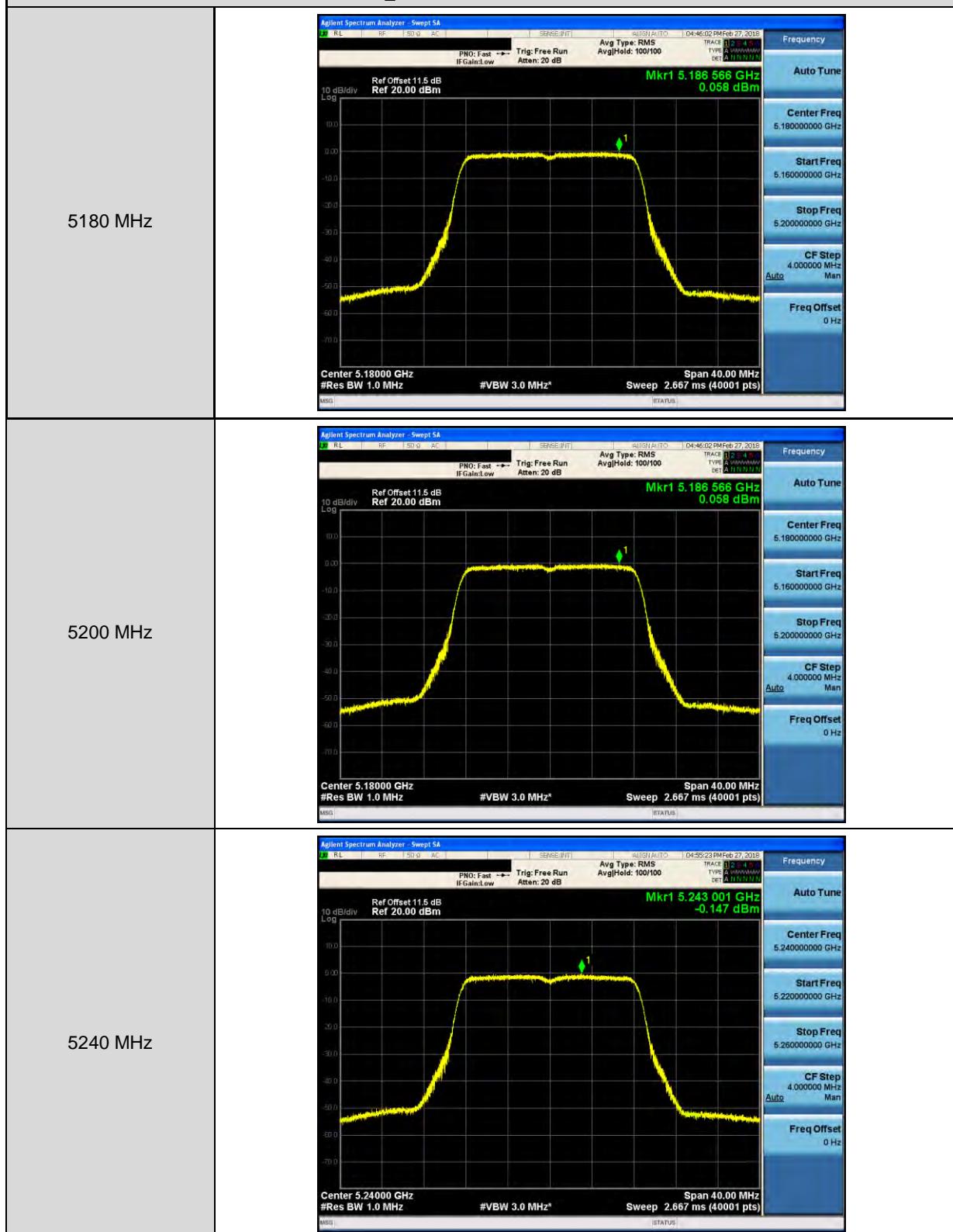
Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

Test Mode	Mode 5: IEEE 802.11ac 80MHz Continuous TX mode			
Frequency (MHz)	ANT-0			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.781	0.185	-9.596	< 15.98
Frequency (MHz)	ANT-1			
	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Limit (dBm/MHz)
5210	-9.845	0.185	-9.660	< 15.98
Frequency (MHz)	ANT-0+1			
	Calculated (dBm/MHz)			Limit (dBm/MHz)
5210	-6.618			< 15.98

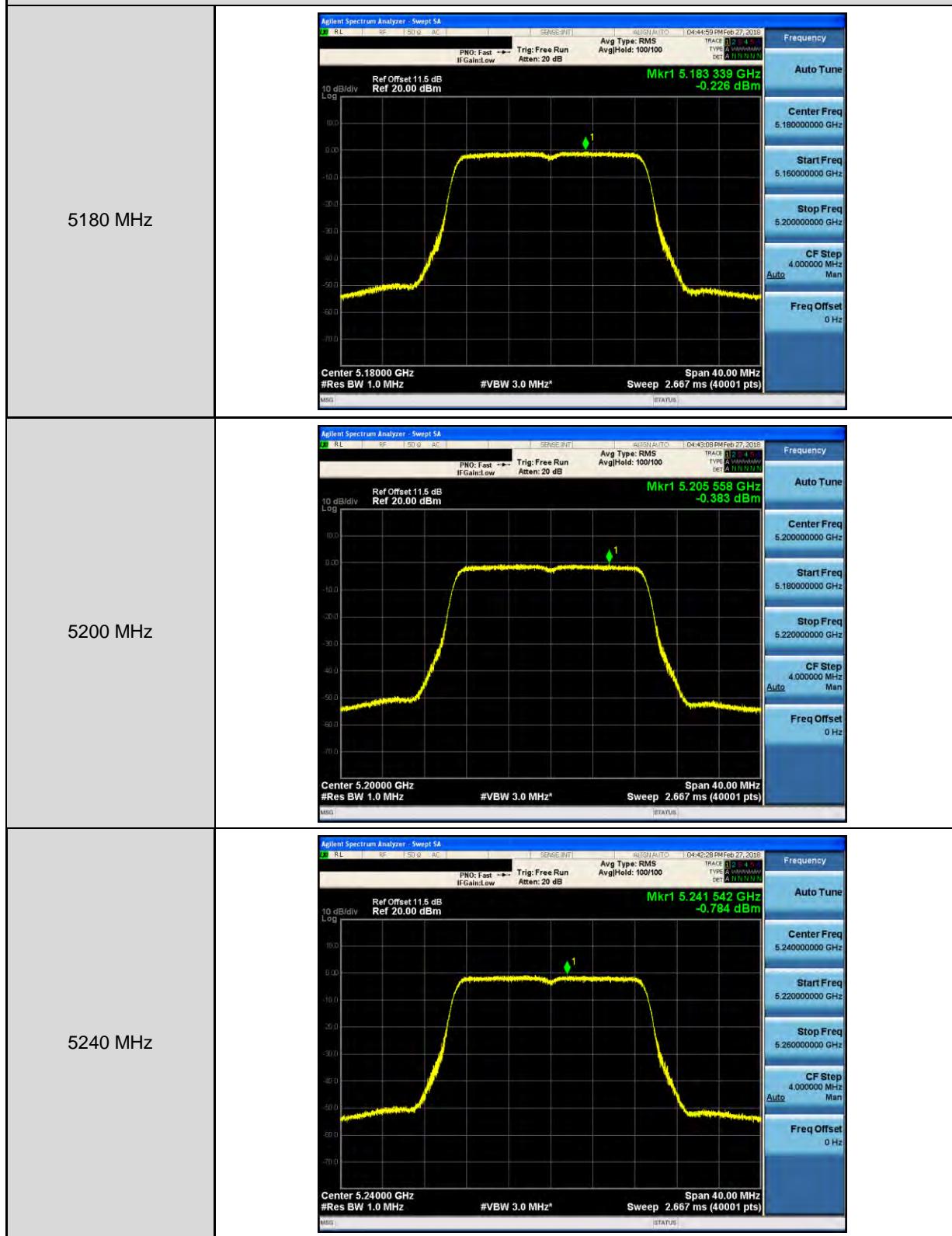
Note: Method SA-2, Power density = measured result + $10\log(1/\text{duty cycle})$ + Conversion ratio = measured result + duty factor.

■ Test Graphs

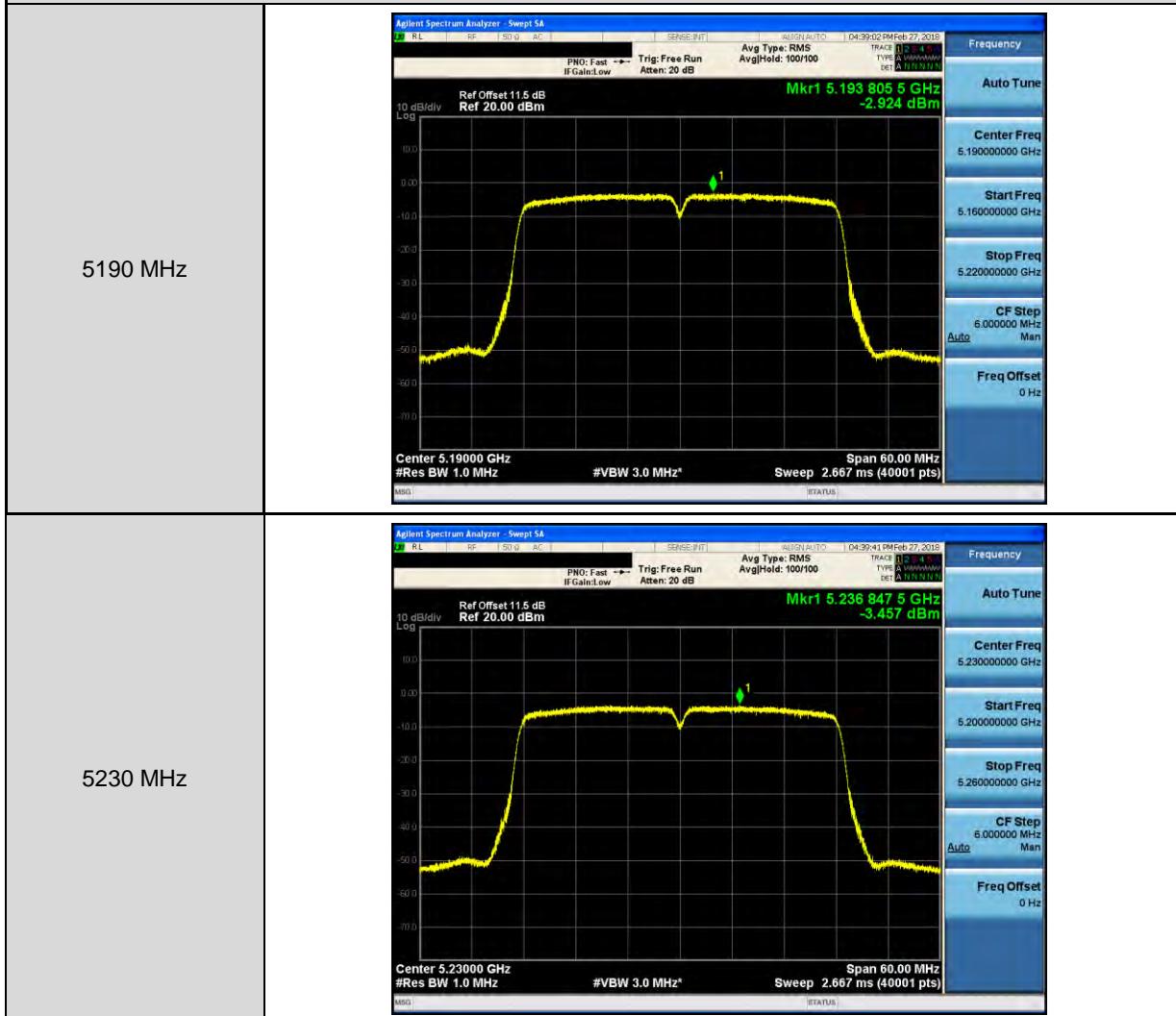
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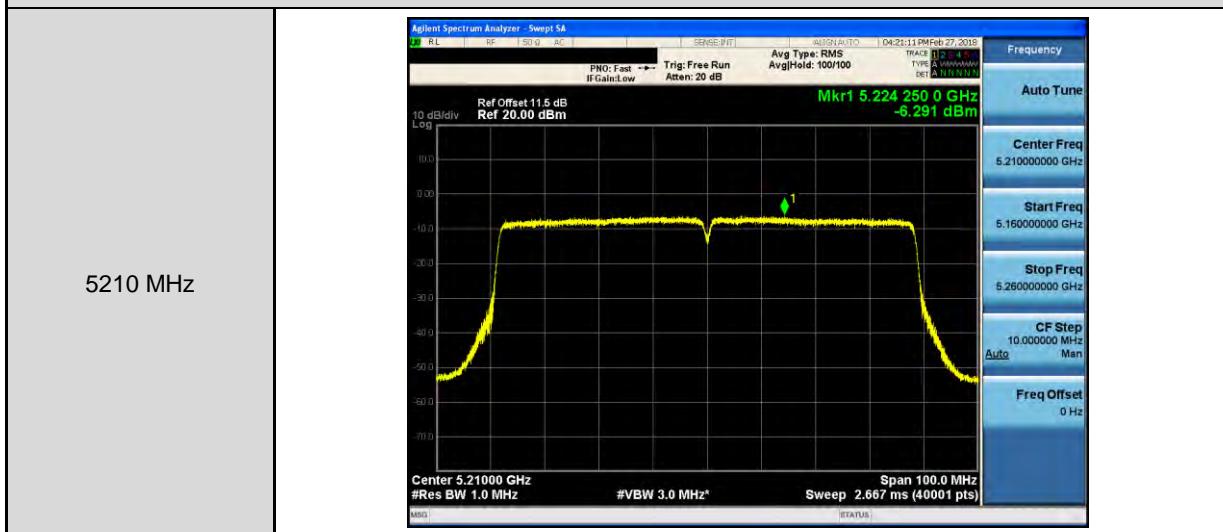
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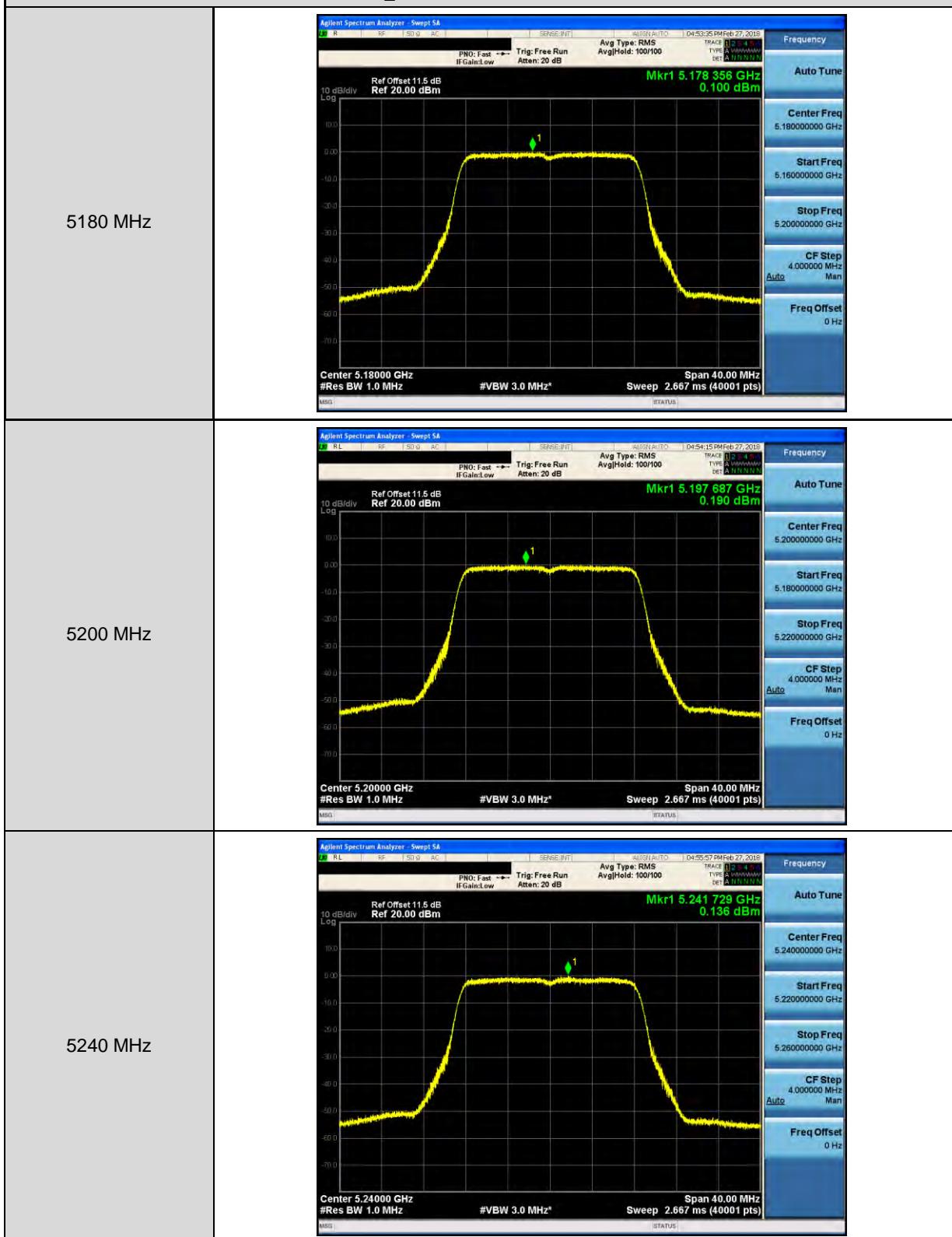
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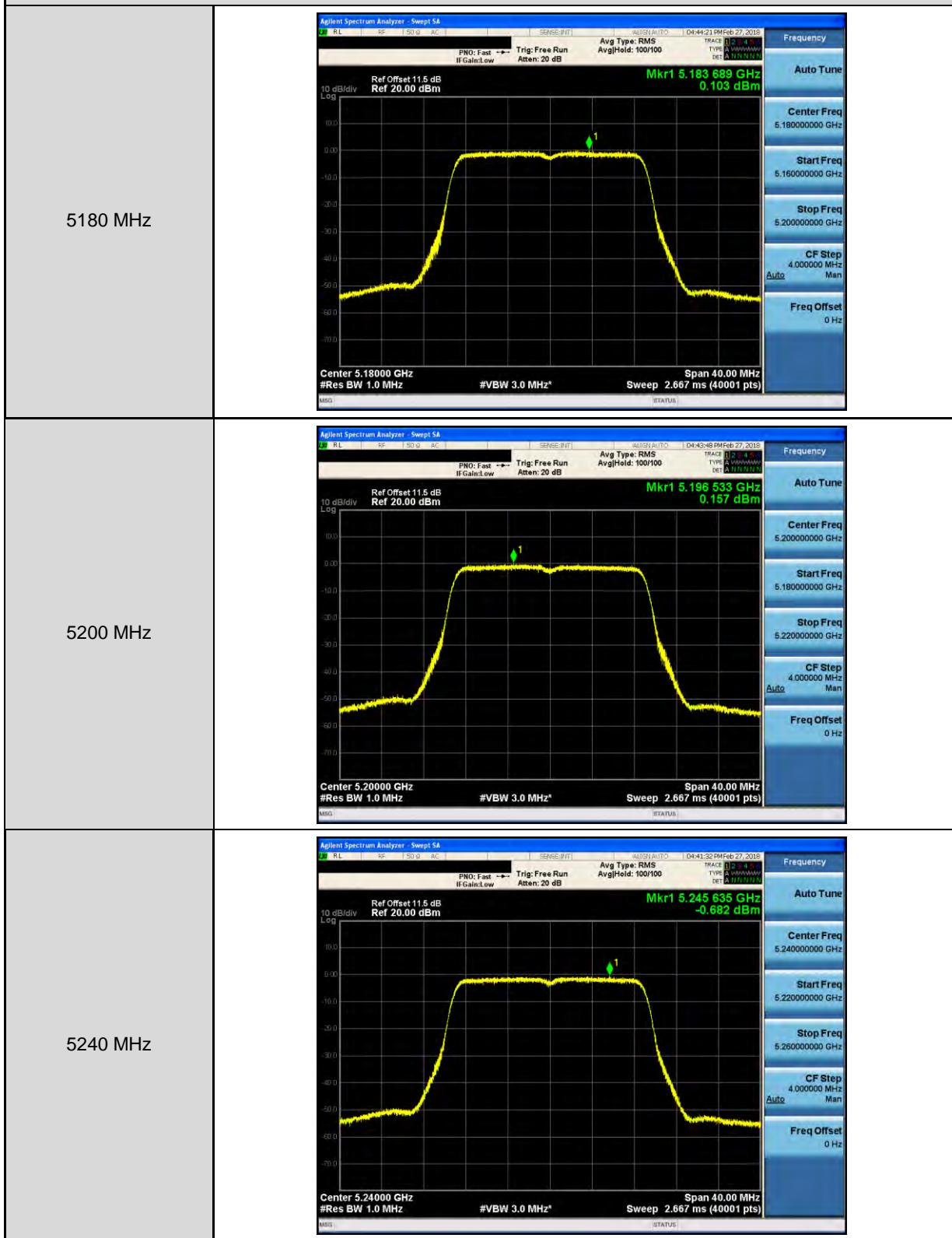
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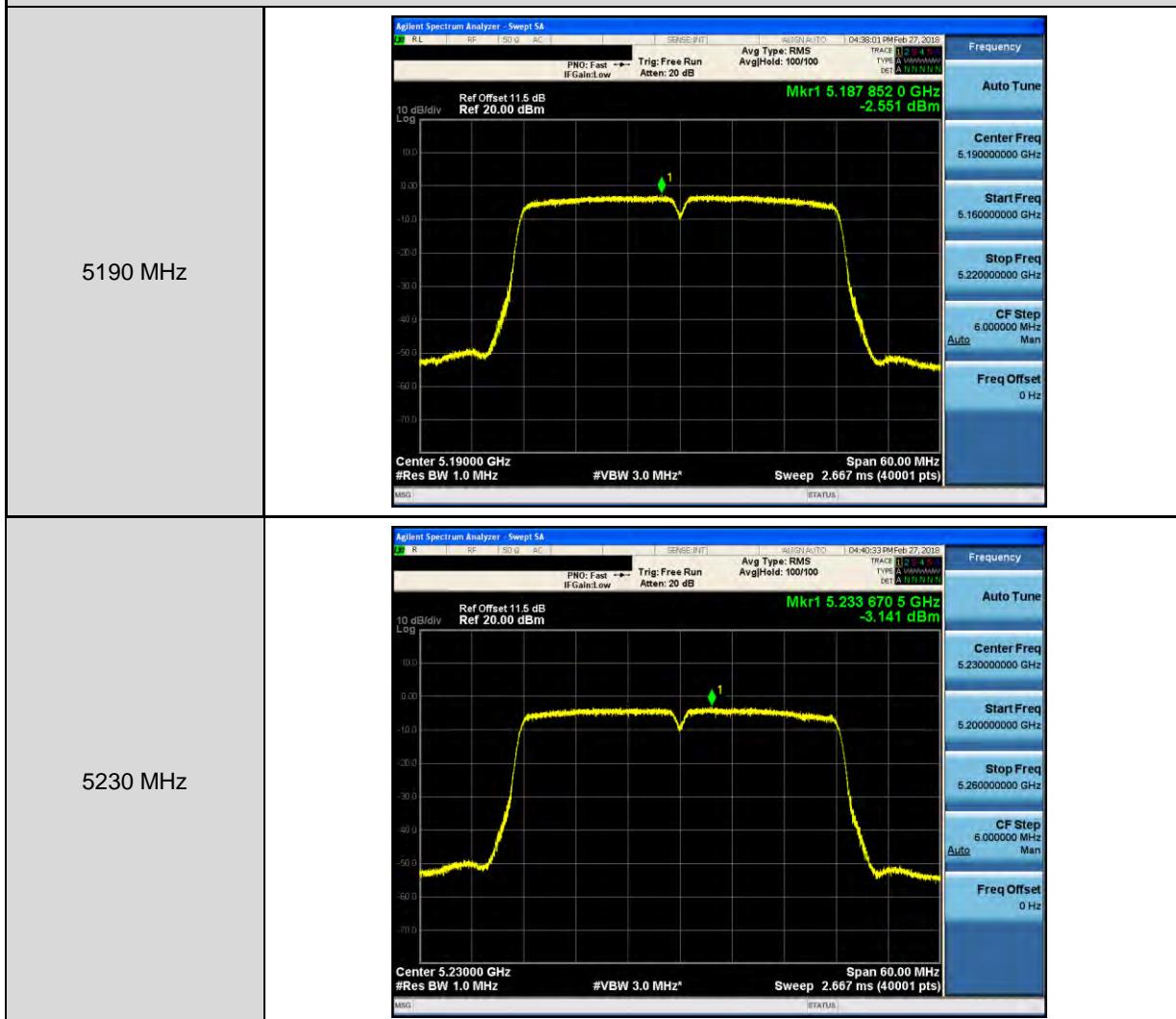
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1



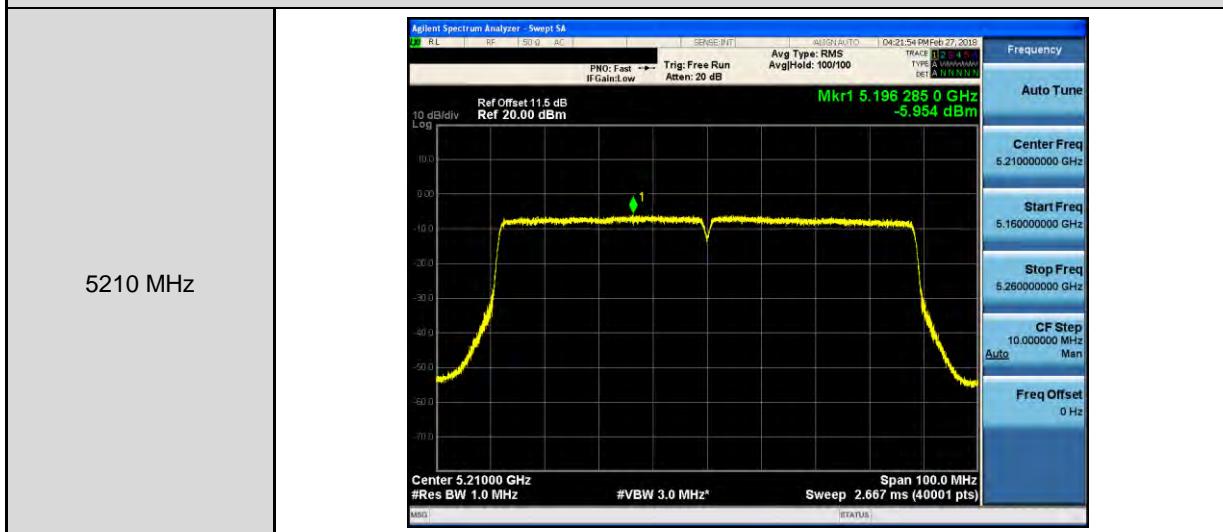
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-1



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1

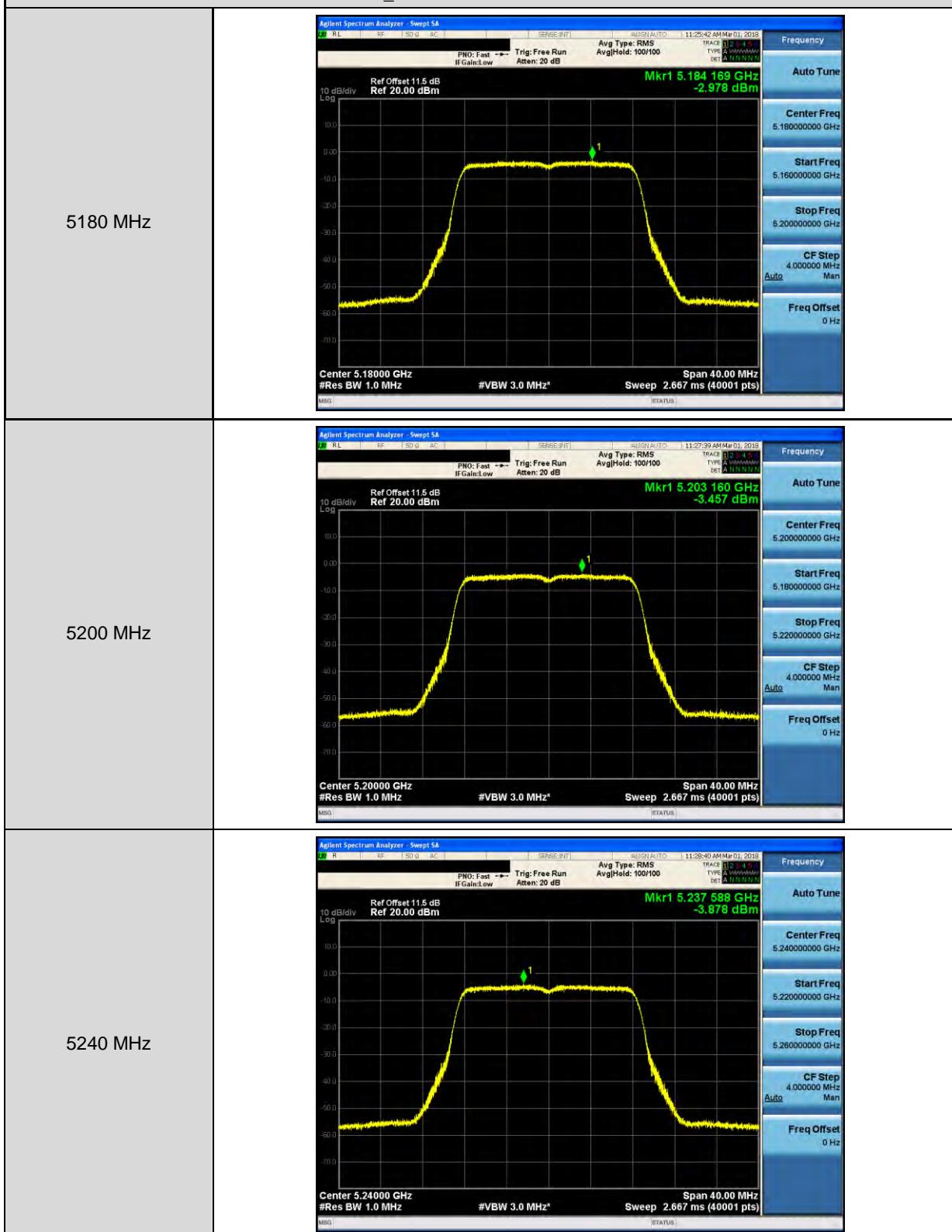


Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-1

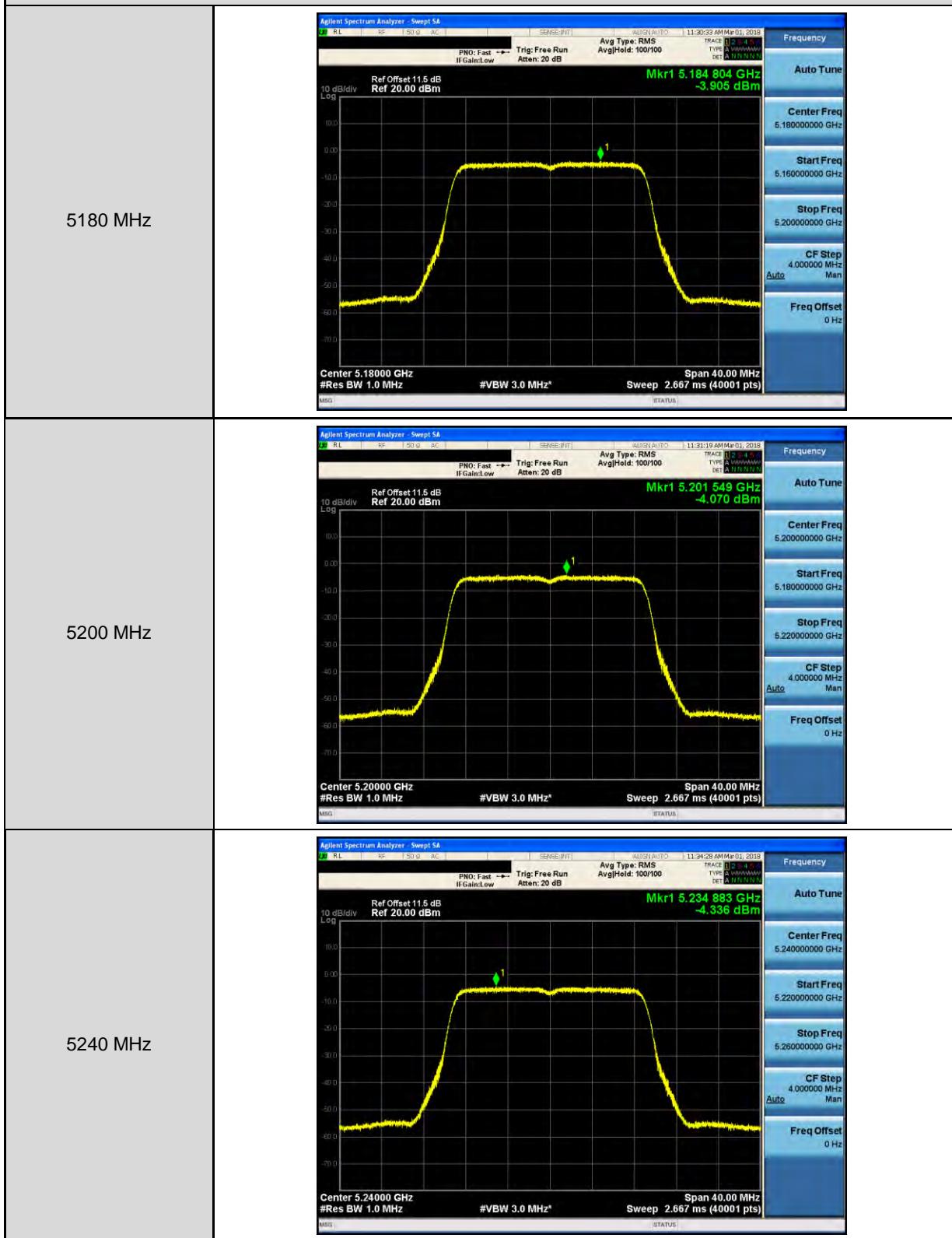


Beamforming on

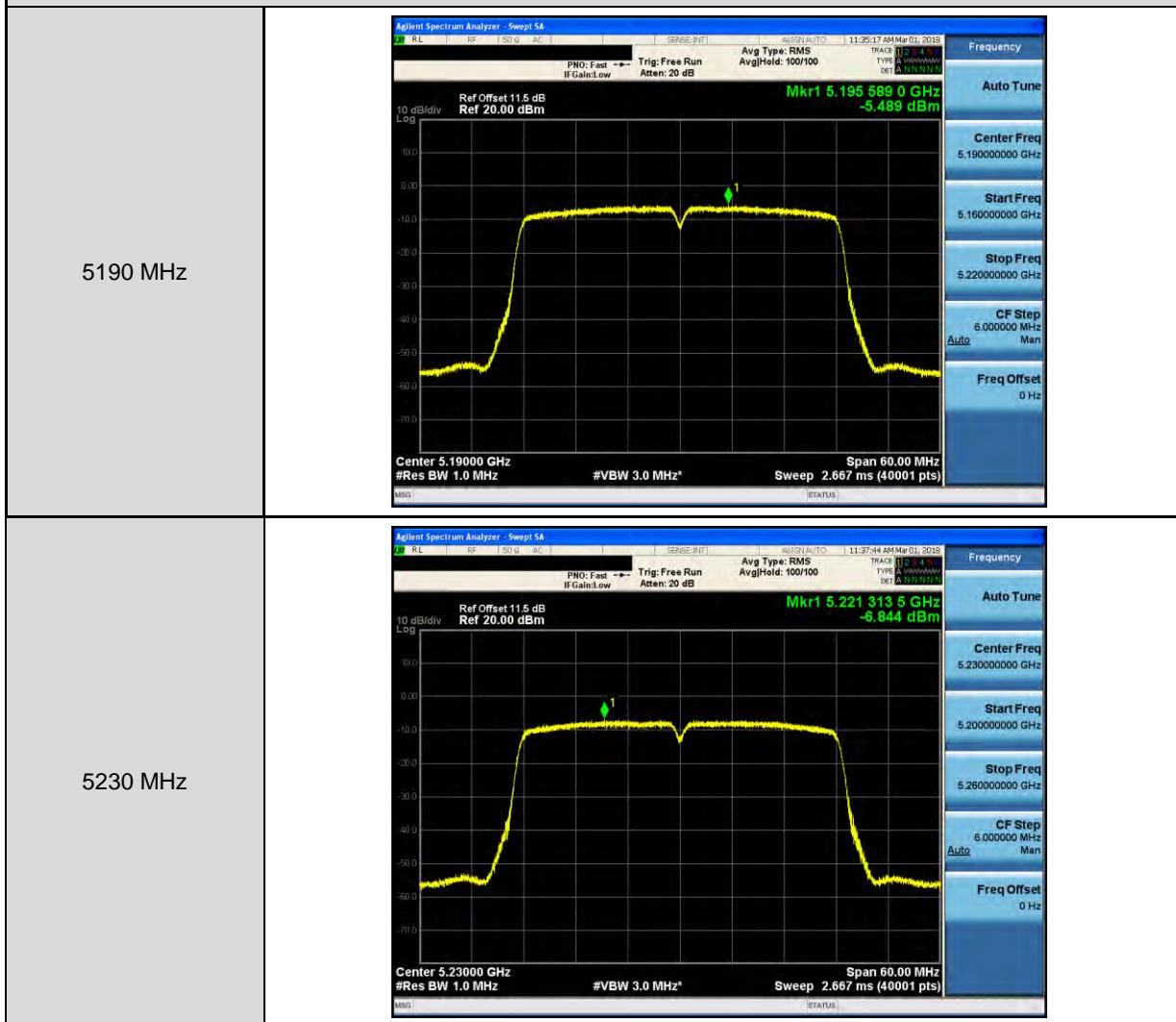
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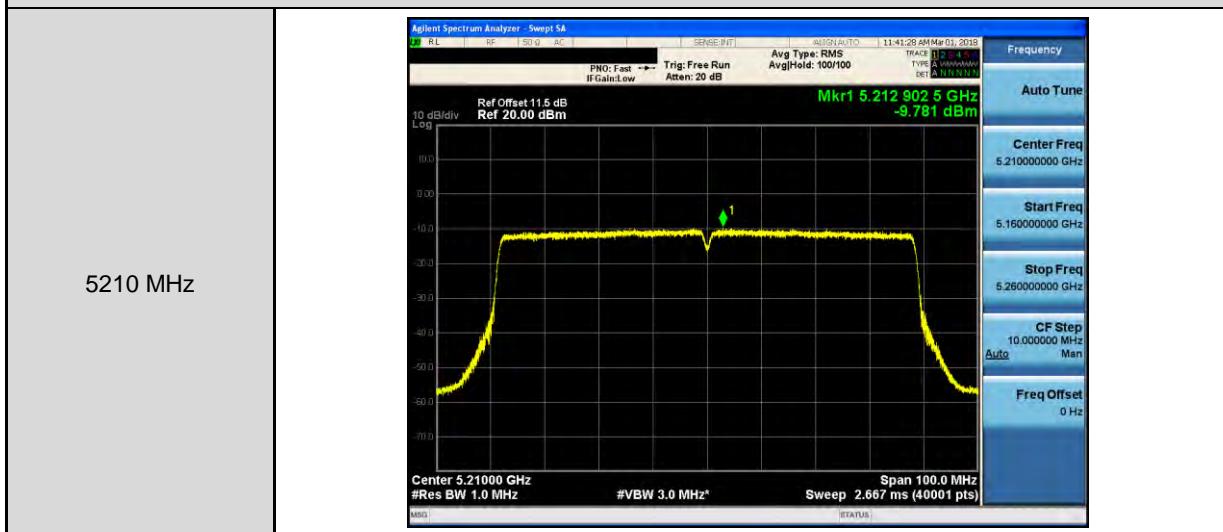
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-0



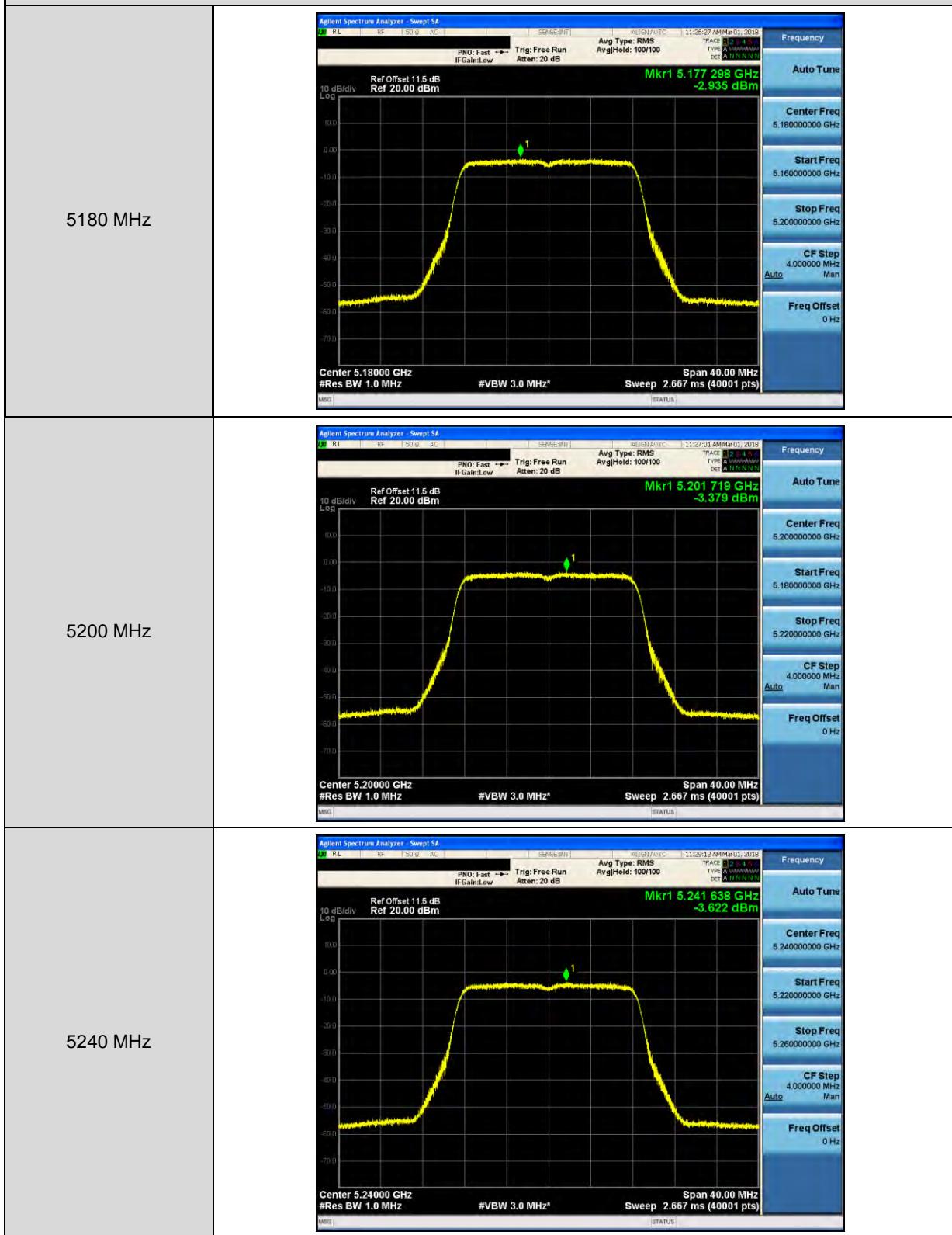
Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-0



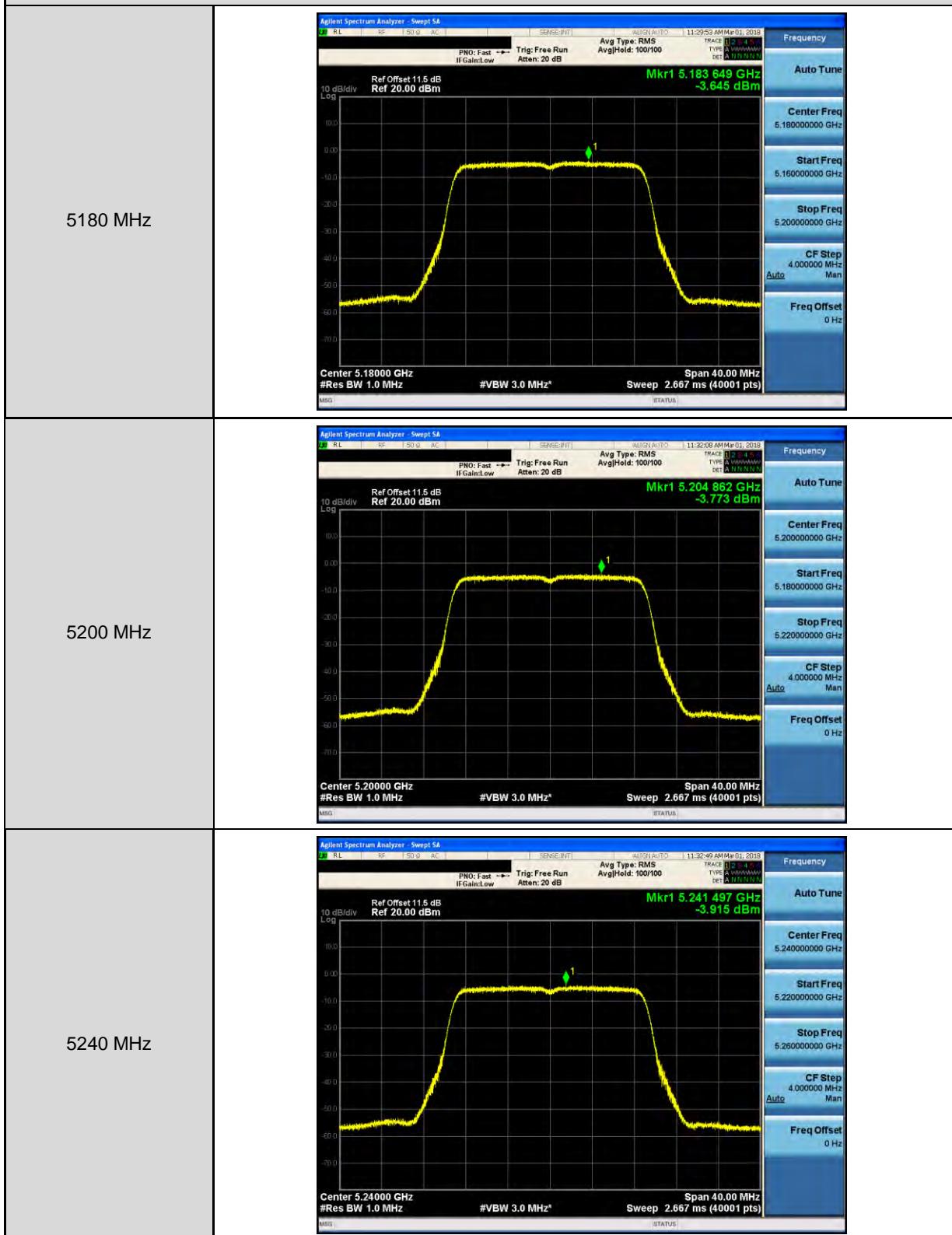
Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-0



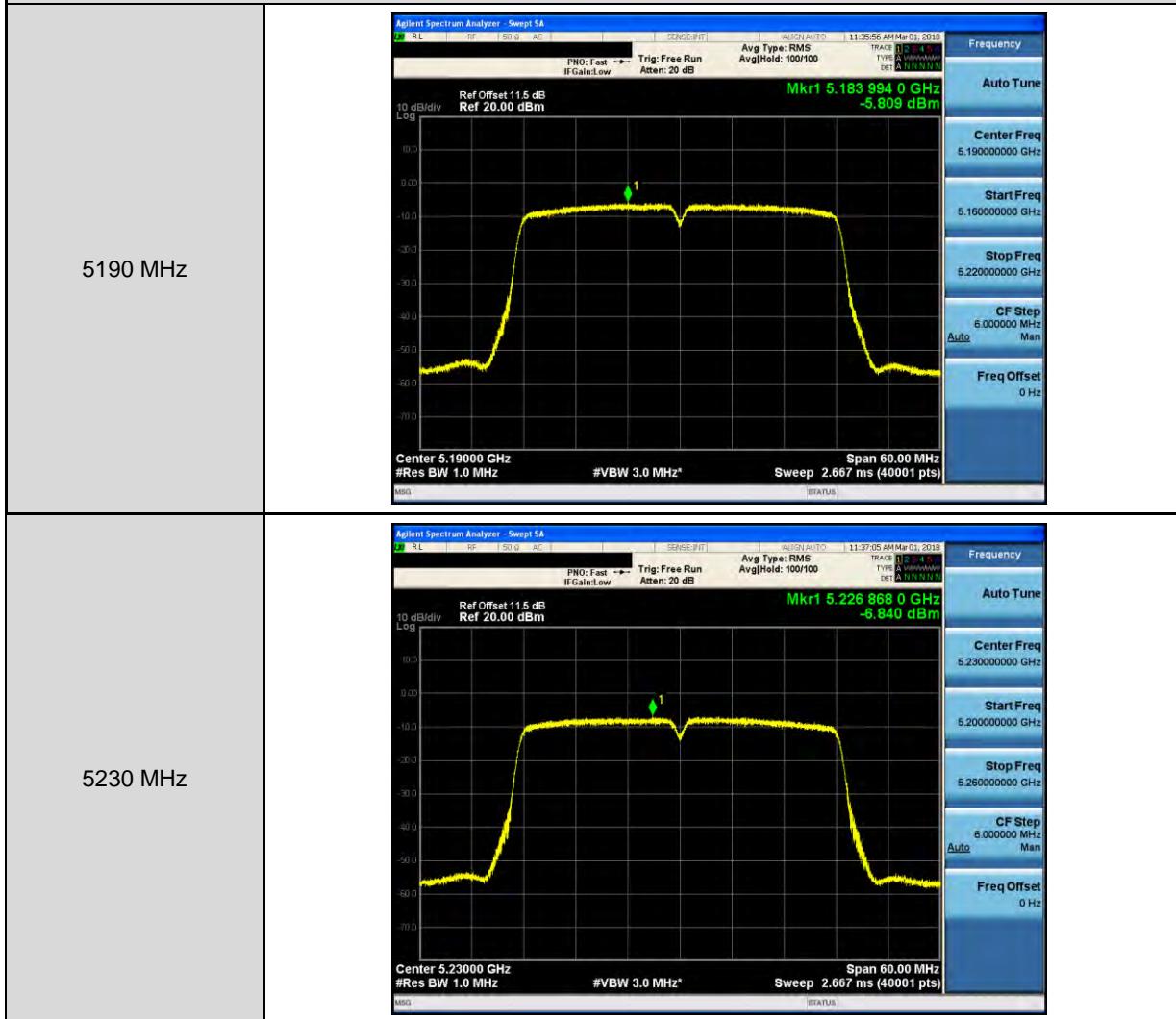
Mode 2: IEEE 802.11a Continuous TX mode_ ANT-1



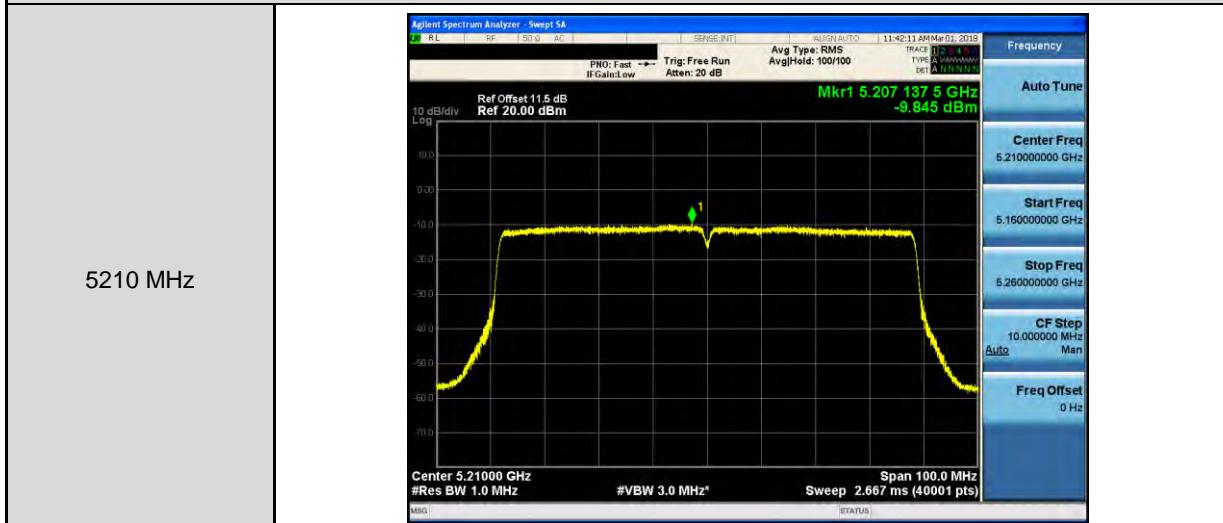
Mode 3: IEEE 802.11ac 20MHz Continuous TX mode _ ANT-1



Mode 4: IEEE 802.11ac 40MHz Continuous TX mode_ ANT-1



Mode 5: IEEE 802.11ac 80MHz Continuous TX mode _ ANT-1



5.6. Frequency Stability Measurement

Temperature Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	0	120	5199.9743	-25700	-4.942	Pass
	10		5199.9768	-23200	-4.462	Pass
	20		5199.9772	-22800	-4.385	Pass
	30		5199.9777	-22300	-4.288	Pass
	40		5199.9782	-21800	-4.192	Pass
	50		5199.9786	-21400	-4.115	Pass

Voltage Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	20	138.00	5199.977	-23000	-4.423	Pass
		120.00	5199.9772	-22800	-4.385	Pass
		102.00	5199.9777	-22300	-4.288	Pass

Note: The manufacturer's frequency stability specification is better than 20ppm.

Beamforming on

Temperature Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	0	120	5199.9743	-25700	-4.942	Pass
	10		5199.9768	-23200	-4.462	Pass
	20		5199.9772	-22800	-4.385	Pass
	30		5199.9777	-22300	-4.288	Pass
	40		5199.9782	-21800	-4.192	Pass
	50		5199.9786	-21400	-4.115	Pass

Voltage Variations

Frequency	Temp. (°C)	Voltage (Vac)	Measured Freq. (MHz)	Delta Freq. (Hz)	Tolerance (ppm)	Result (Pass/Fail)
5200 MHz	20	138.00	5199.977	-23000	-4.423	Pass
		120.00	5199.9772	-22800	-4.385	Pass
		102.00	5199.9777	-22300	-4.288	Pass

Note: The manufacturer's frequency stability specification is better than 20ppm.

5.7. Automatically discontinue transmission

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving.

5.8. Antenna Requirement

■ Antenna Connector Construction

See section 2 – antenna information.

■ Directional Gain Calculated

Directional Gain = $10 \times \log\{[10^{(G1/20)} + 10^{(G2/20)} + \dots + 10^{(Gn/20)}]^2 / N_{ANT}\} = 7.02 \text{ dBi} > 6 \text{ dBi}$

Operate Freq. Band		Directional Gain (dBi)
IEEE 802.11a	U-NII Band I	7.02
IEEE 802.11ac 20MHz	U-NII Band I	7.02
IEEE 802.11ac 40MHz	U-NII Band I	7.02
IEEE 802.11ac 80MHz	U-NII Band I	7.02