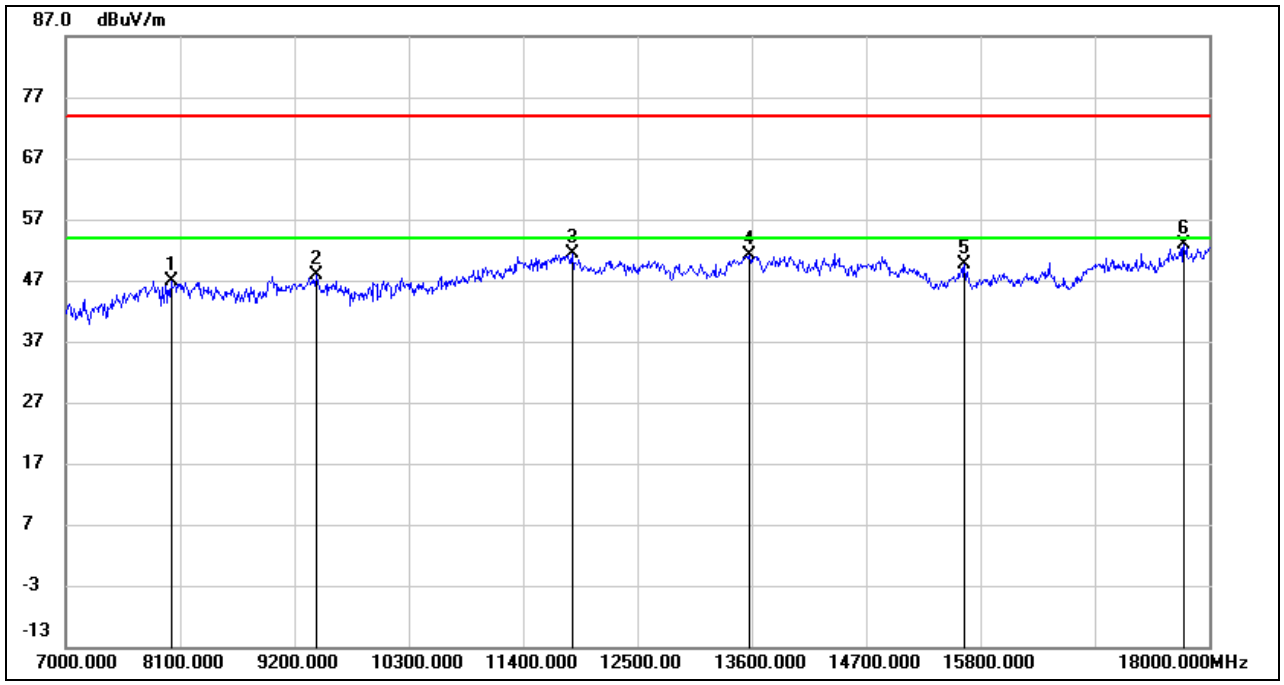
STRADDLE CHANNEL 144

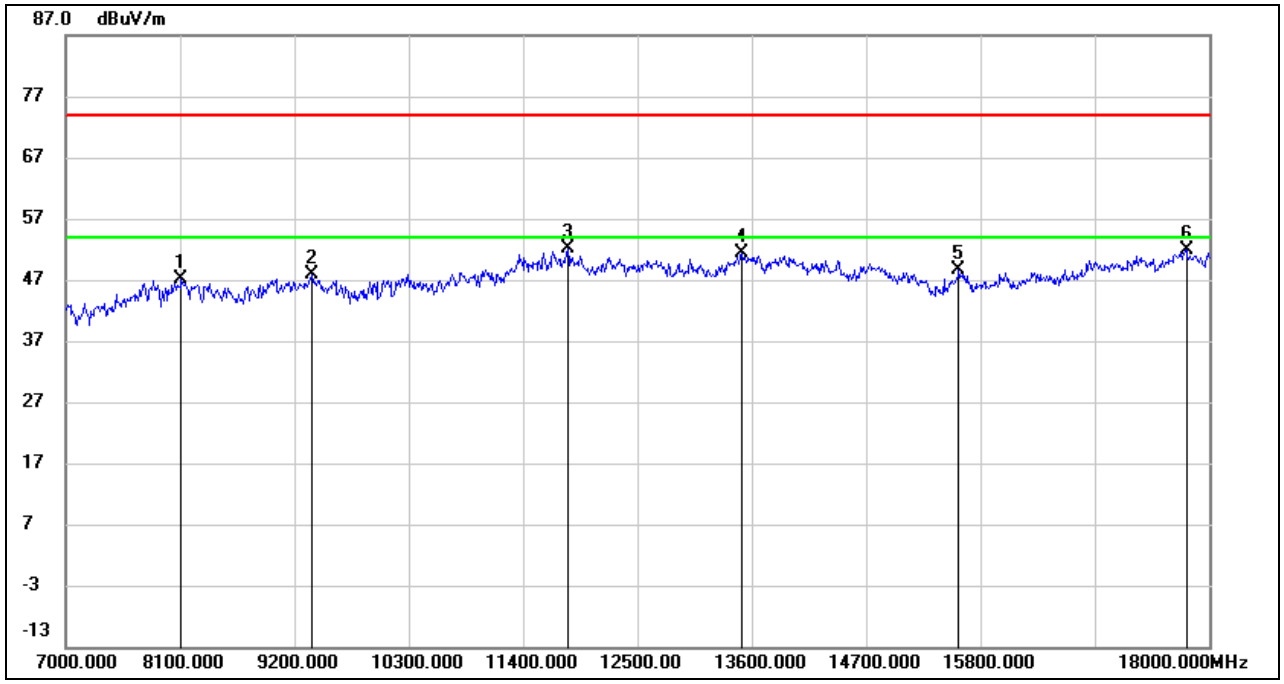
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8012.000	38.68	8.22	46.90	74.00	-27.10	peak
2	9409.000	37.04	10.76	47.80	74.00	-26.20	peak
3	11873.000	34.09	17.17	51.26	74.00	-22.74	peak
4	13578.000	31.93	19.08	51.01	74.00	-22.99	peak
5	15646.000	33.93	15.63	49.56	74.00	-24.44	peak
6	17758.000	29.03	23.83	52.86	74.00	-21.14	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)

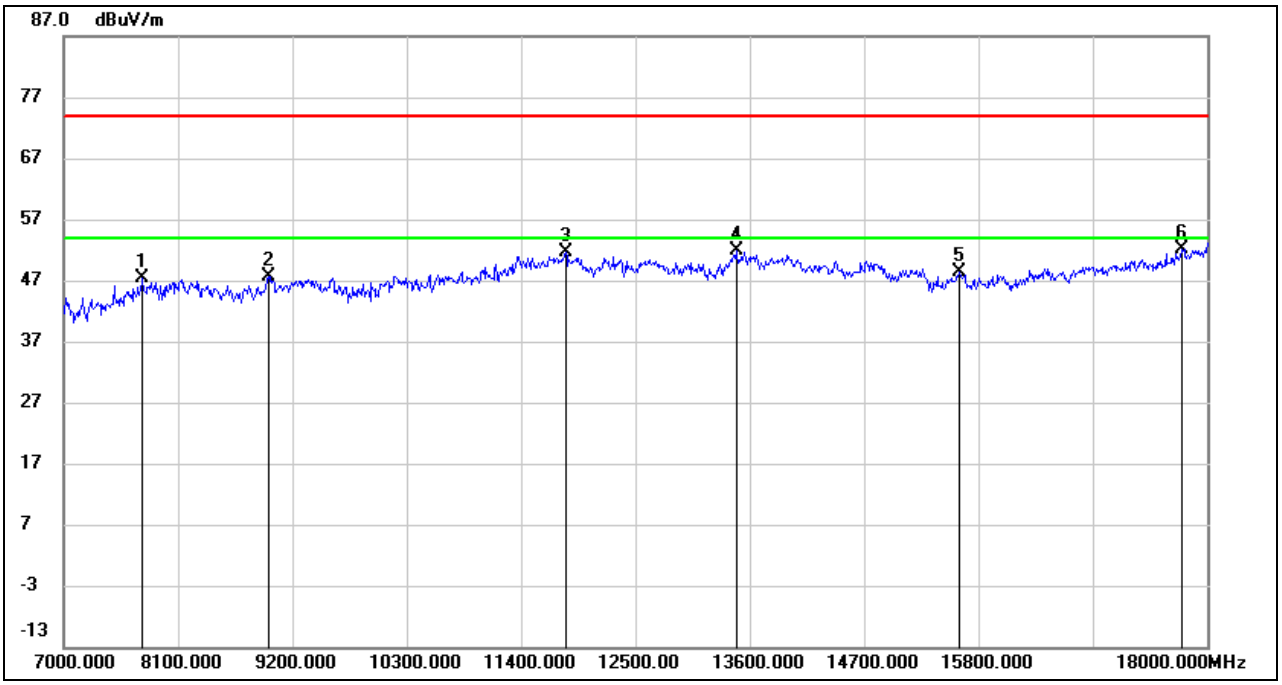


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	37.52	9.52	47.04	74.00	-26.96	peak
2	9365.000	37.43	10.56	47.99	74.00	-26.01	peak
3	11829.000	35.15	17.05	52.20	74.00	-21.80	peak
4	13501.000	32.21	19.22	51.43	74.00	-22.57	peak
5	15591.000	33.16	15.59	48.75	74.00	-25.25	peak
6	17780.000	27.95	24.02	51.97	74.00	-22.03	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND

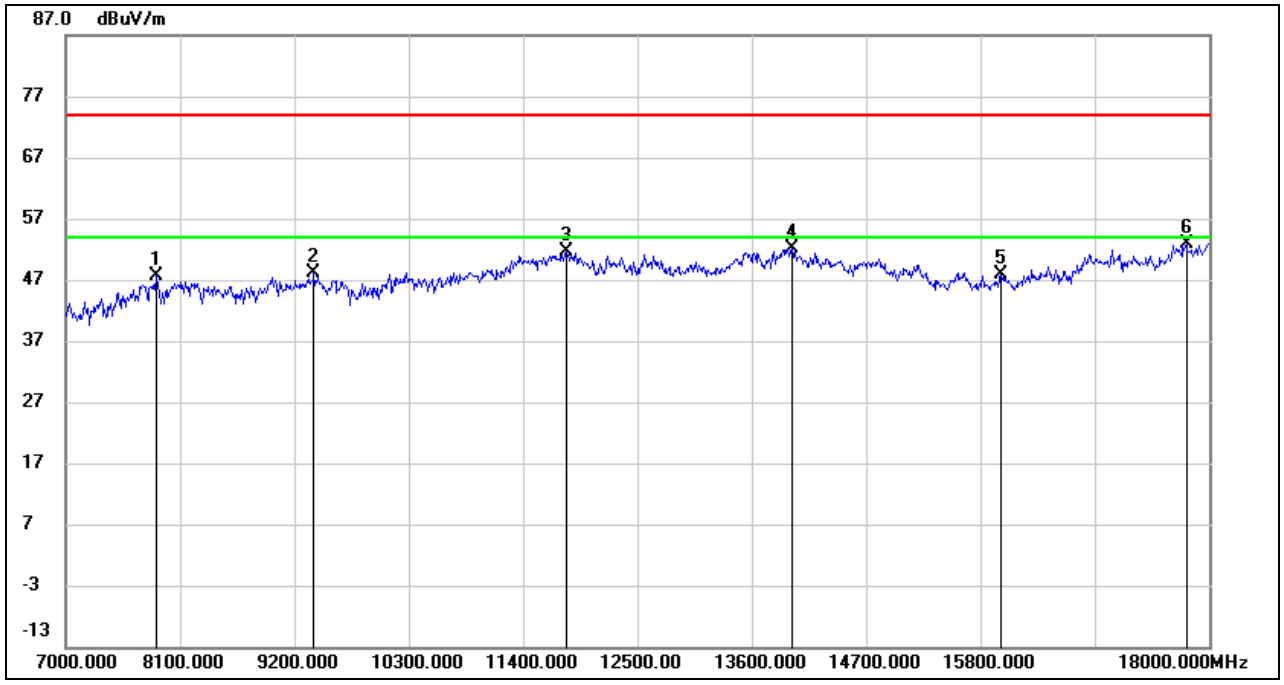
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7759.000	39.06	8.34	47.40	74.00	-26.60	peak
2	8969.000	37.46	10.17	47.63	74.00	-26.37	peak
3	11829.000	34.62	17.05	51.67	74.00	-22.33	peak
4	13468.000	32.75	19.12	51.87	74.00	-22.13	peak
5	15613.000	32.85	15.64	48.49	74.00	-25.51	peak
6	17758.000	28.41	23.83	52.24	74.00	-21.76	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

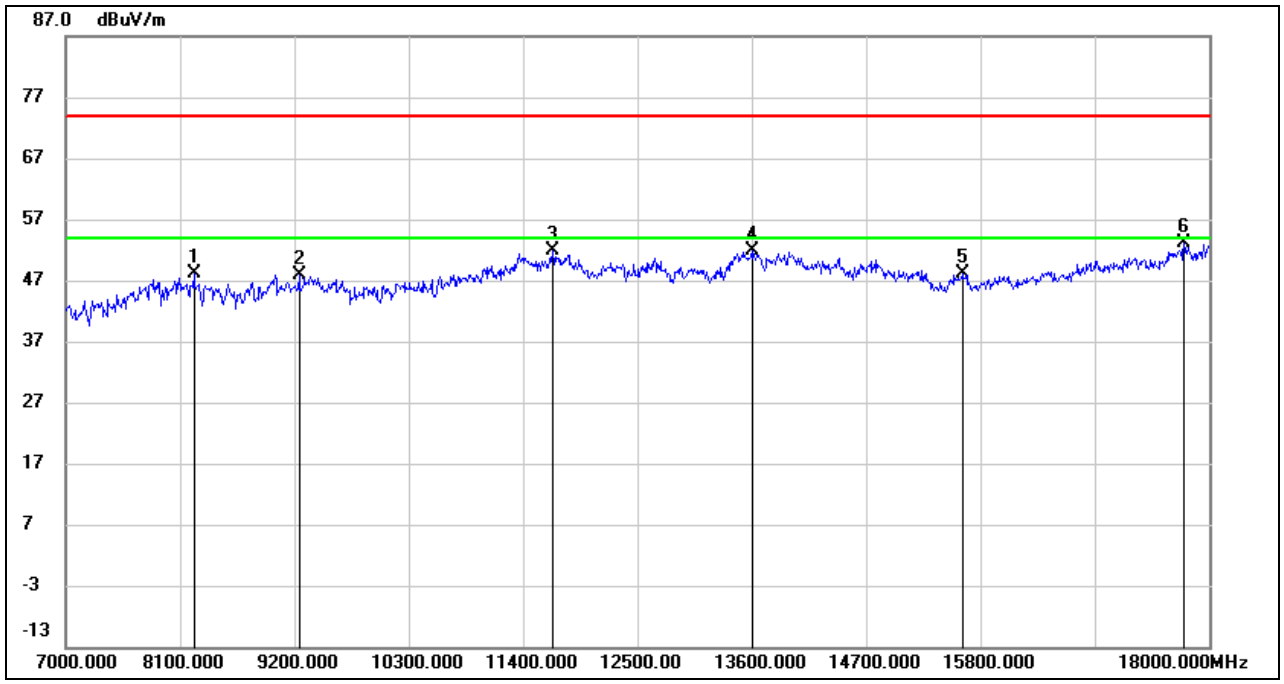
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7869.000	39.29	8.39	47.68	74.00	-26.32	peak
2	9387.000	37.34	10.70	48.04	74.00	-25.96	peak
3	11818.000	34.61	17.02	51.63	74.00	-22.37	peak
4	13985.000	32.84	19.36	52.20	74.00	-21.80	peak
5	15998.000	32.19	15.72	47.91	74.00	-26.09	peak
6	17780.000	28.74	24.02	52.76	74.00	-21.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

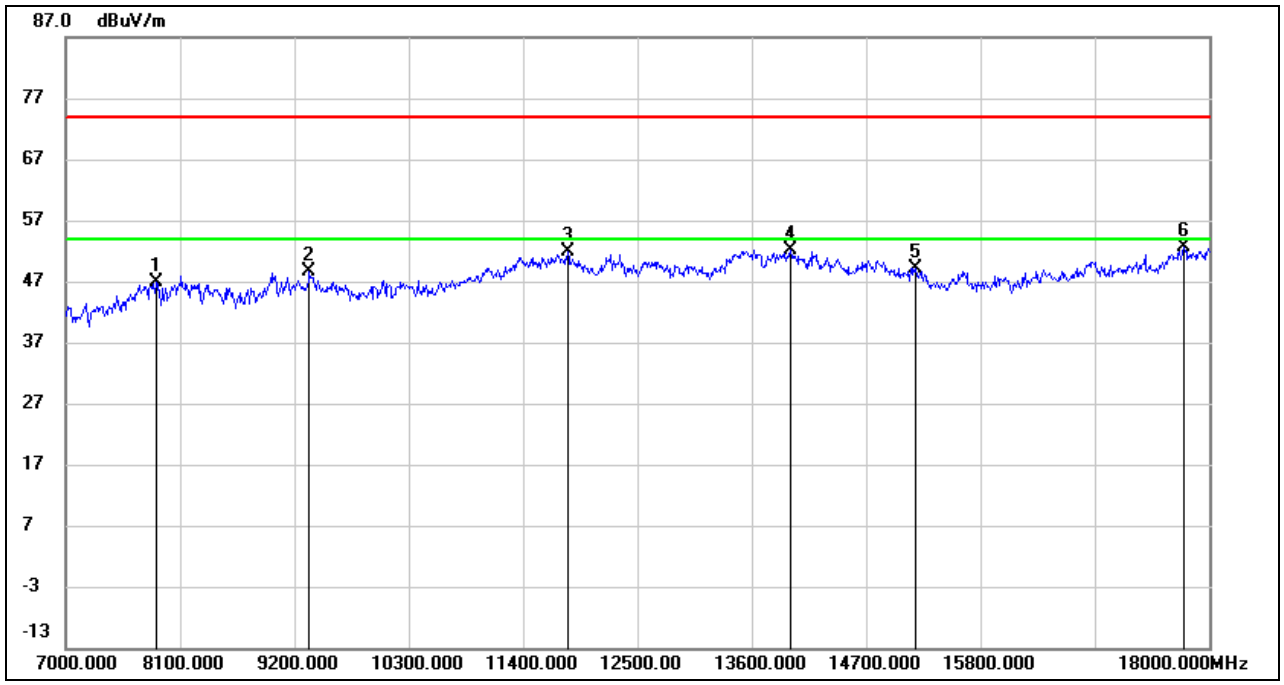
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	39.00	9.13	48.13	74.00	-25.87	peak
2	9244.000	38.14	9.81	47.95	74.00	-26.05	peak
3	11686.000	34.91	17.03	51.94	74.00	-22.06	peak
4	13600.000	32.72	19.04	51.76	74.00	-22.24	peak
5	15624.000	32.45	15.64	48.09	74.00	-25.91	peak
6	17758.000	29.34	23.83	53.17	74.00	-20.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

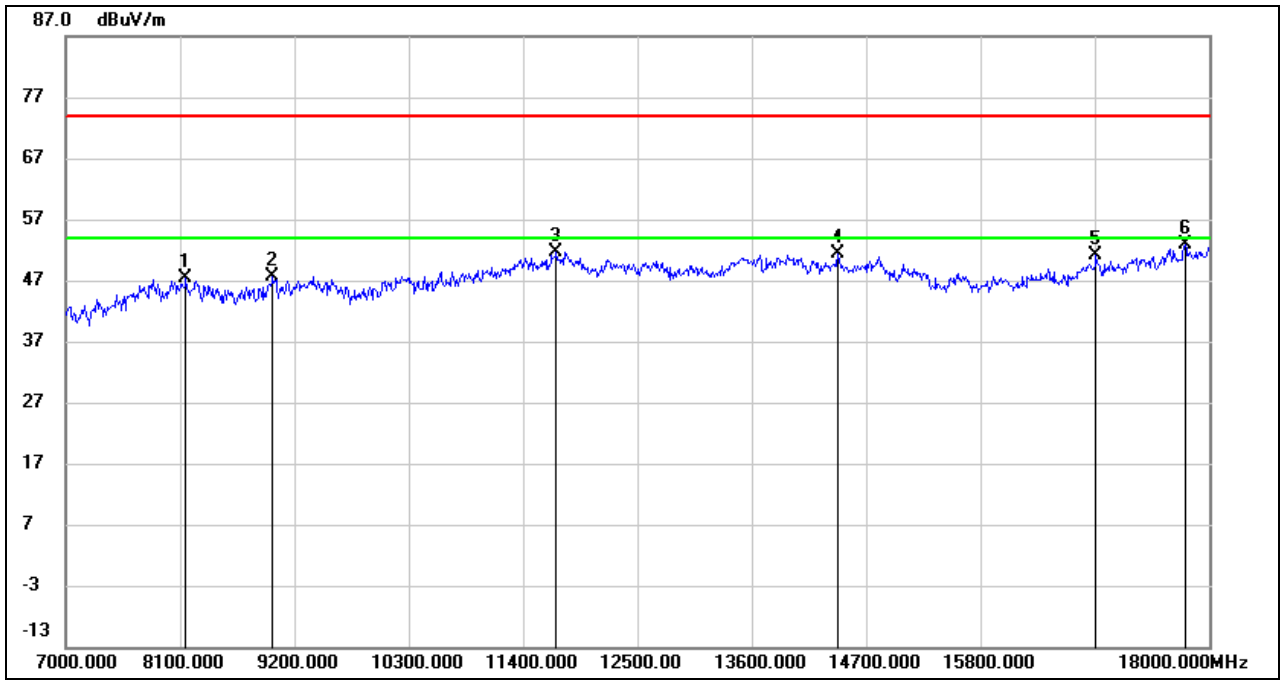
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7869.000	38.57	8.39	46.96	74.00	-27.04	peak
2	9343.000	38.30	10.42	48.72	74.00	-25.28	peak
3	11829.000	34.74	17.05	51.79	74.00	-22.21	peak
4	13974.000	32.88	19.34	52.22	74.00	-21.78	peak
5	15173.000	33.41	15.66	49.07	74.00	-24.93	peak
6	17758.000	28.74	23.83	52.57	74.00	-21.43	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

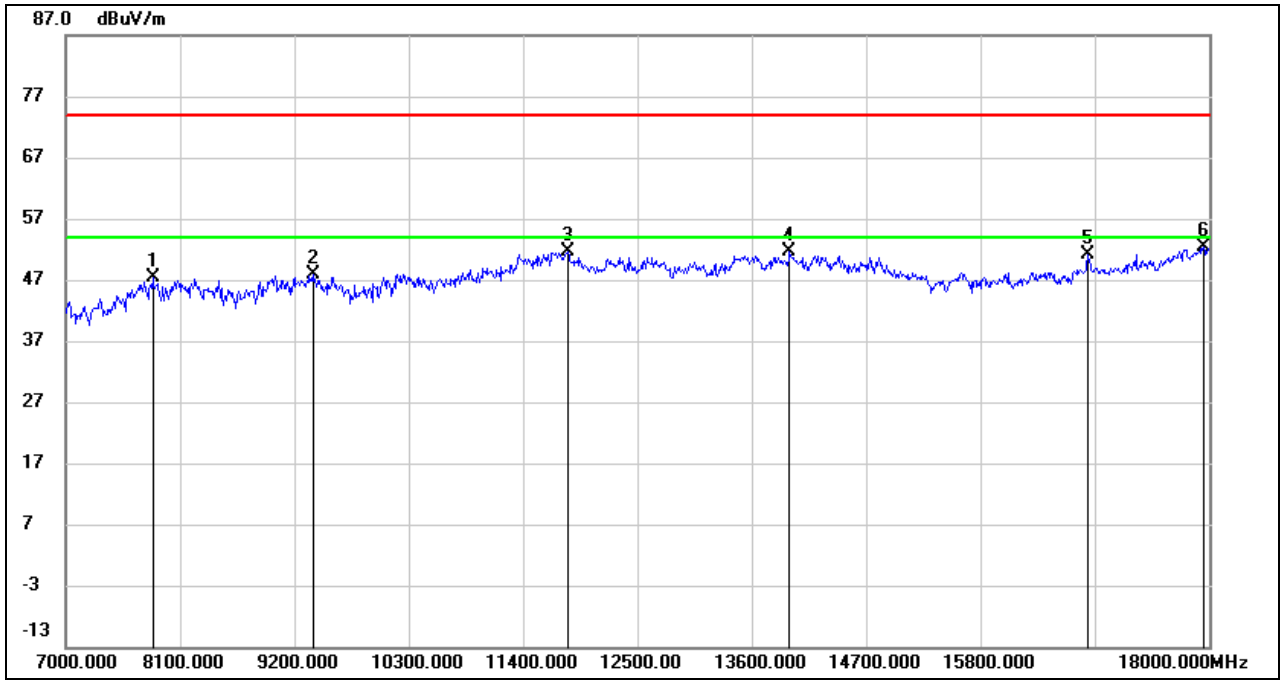
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8155.000	37.93	9.35	47.28	74.00	-26.72	peak
2	8991.000	37.09	10.60	47.69	74.00	-26.31	peak
3	11719.000	34.52	17.09	51.61	74.00	-22.39	peak
4	14425.000	33.64	17.85	51.49	74.00	-22.51	peak
5	16911.000	31.47	19.71	51.18	74.00	-22.82	peak
6	17769.000	29.03	23.92	52.95	74.00	-21.05	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



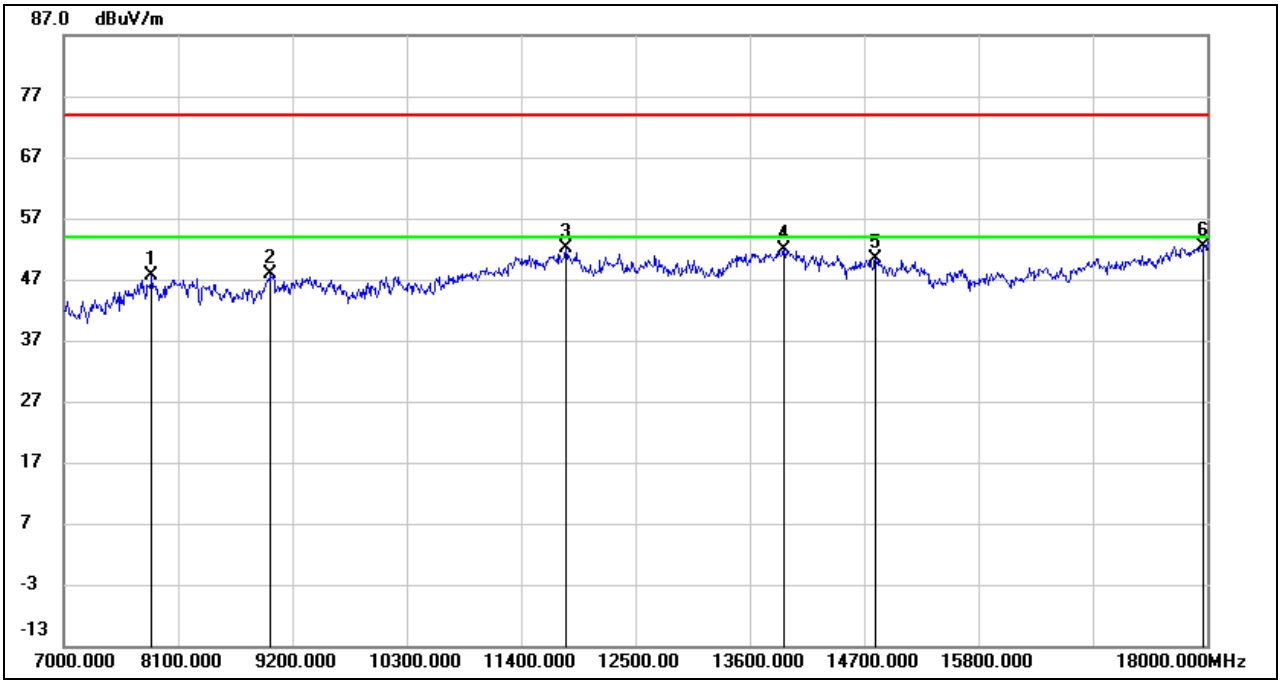
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.72	8.54	47.26	74.00	-26.74	peak
2	9376.000	37.20	10.64	47.84	74.00	-26.16	peak
3	11829.000	34.53	17.05	51.58	74.00	-22.42	peak
4	13963.000	32.37	19.33	51.70	74.00	-22.30	peak
5	16834.000	31.99	19.07	51.06	74.00	-22.94	peak
6	17945.000	27.78	24.61	52.39	74.00	-21.61	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.3.3. 802.11n HT40 MIMO MODE

UNII-1 BAND

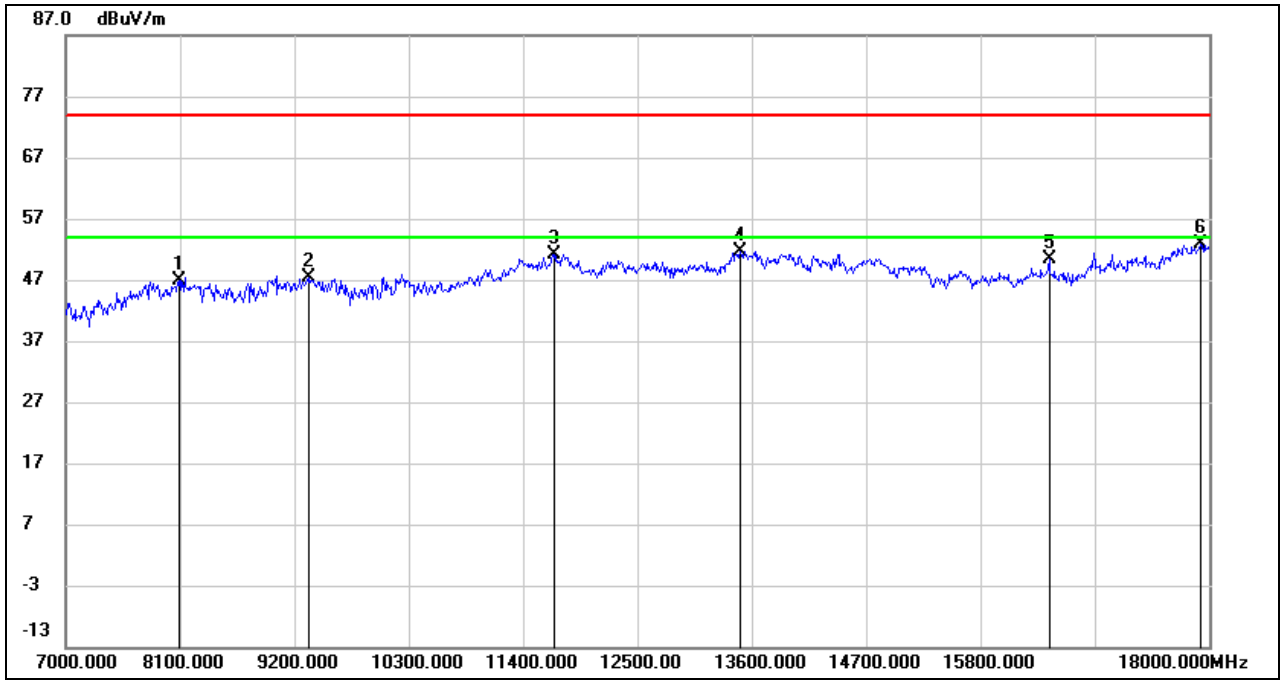
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7847.000	39.17	8.49	47.66	74.00	-26.34	peak
2	8991.000	37.38	10.60	47.98	74.00	-26.02	peak
3	11829.000	34.97	17.05	52.02	74.00	-21.98	peak
4	13930.000	32.61	19.31	51.92	74.00	-22.08	peak
5	14810.000	32.97	17.46	50.43	74.00	-23.57	peak
6	17967.000	27.66	24.75	52.41	74.00	-21.59	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

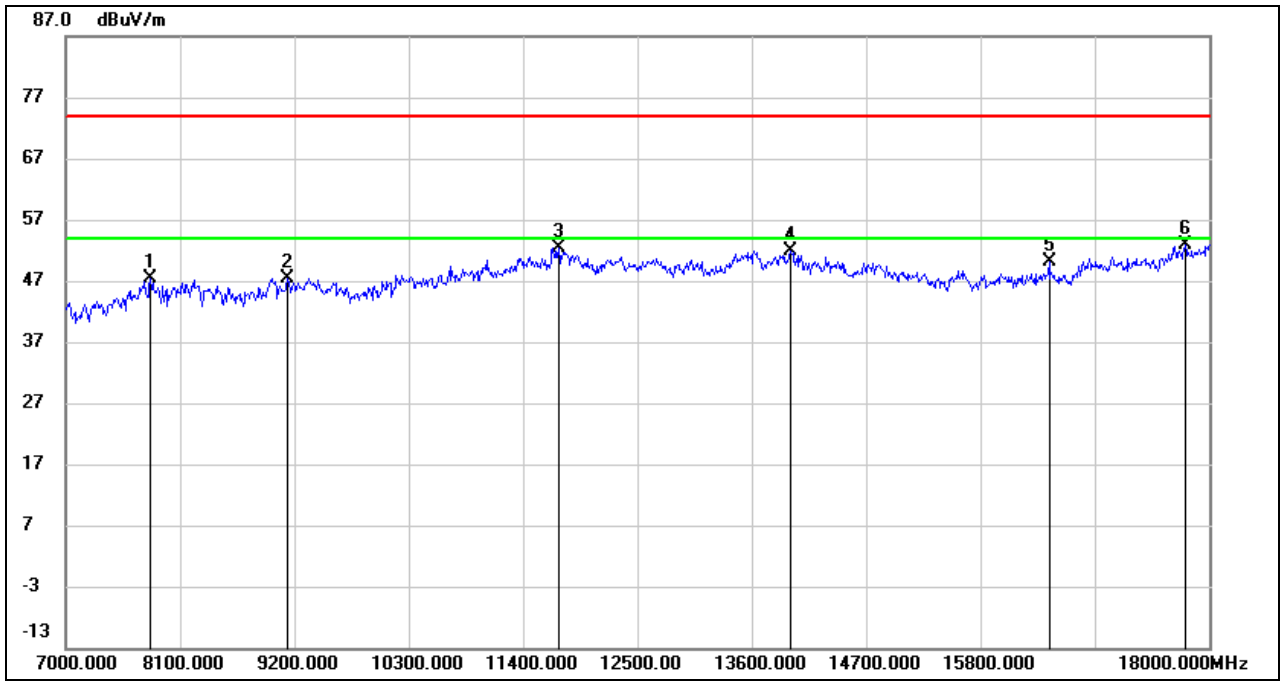
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8089.000	37.53	9.39	46.92	74.00	-27.08	peak
2	9343.000	36.91	10.42	47.33	74.00	-26.67	peak
3	11697.000	34.11	17.10	51.21	74.00	-22.79	peak
4	13490.000	32.55	19.19	51.74	74.00	-22.26	peak
5	16460.000	33.12	17.26	50.38	74.00	-23.62	peak
6	17923.000	28.34	24.46	52.80	74.00	-21.20	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

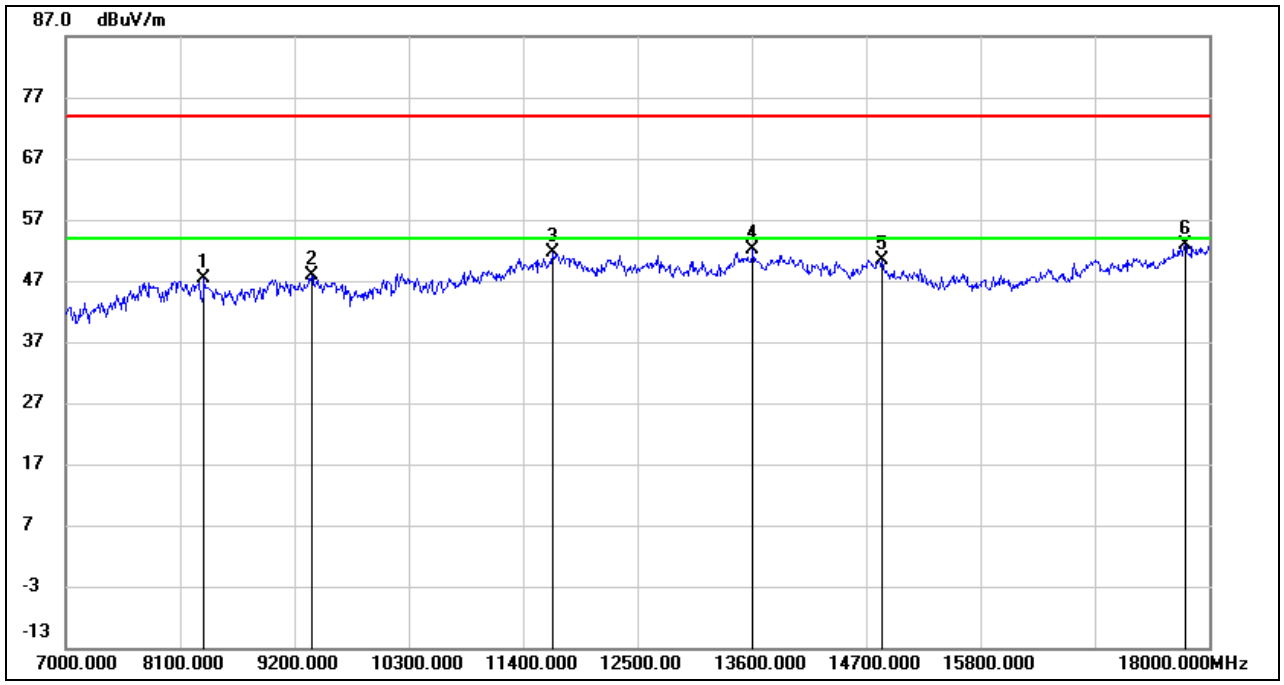
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	38.84	8.64	47.48	74.00	-26.52	peak
2	9134.000	37.79	9.66	47.45	74.00	-26.55	peak
3	11741.000	35.26	17.05	52.31	74.00	-21.69	peak
4	13974.000	32.56	19.34	51.90	74.00	-22.10	peak
5	16460.000	32.97	17.26	50.23	74.00	-23.77	peak
6	17769.000	28.94	23.92	52.86	74.00	-21.14	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

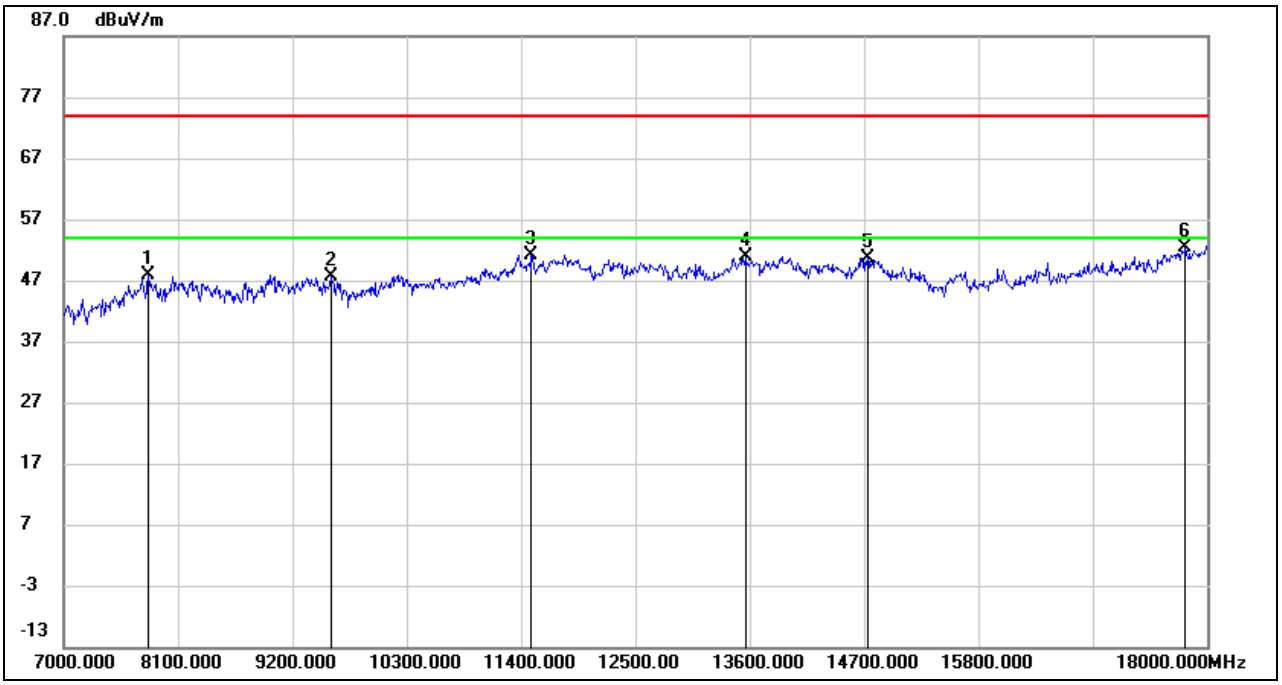


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8331.000	38.42	8.92	47.34	74.00	-26.66	peak
2	9365.000	37.44	10.56	48.00	74.00	-26.00	peak
3	11686.000	34.50	17.03	51.53	74.00	-22.47	peak
4	13611.000	33.04	19.09	52.13	74.00	-21.87	peak
5	14854.000	33.39	17.07	50.46	74.00	-23.54	peak
6	17769.000	29.06	23.92	52.98	74.00	-21.02	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2A BAND

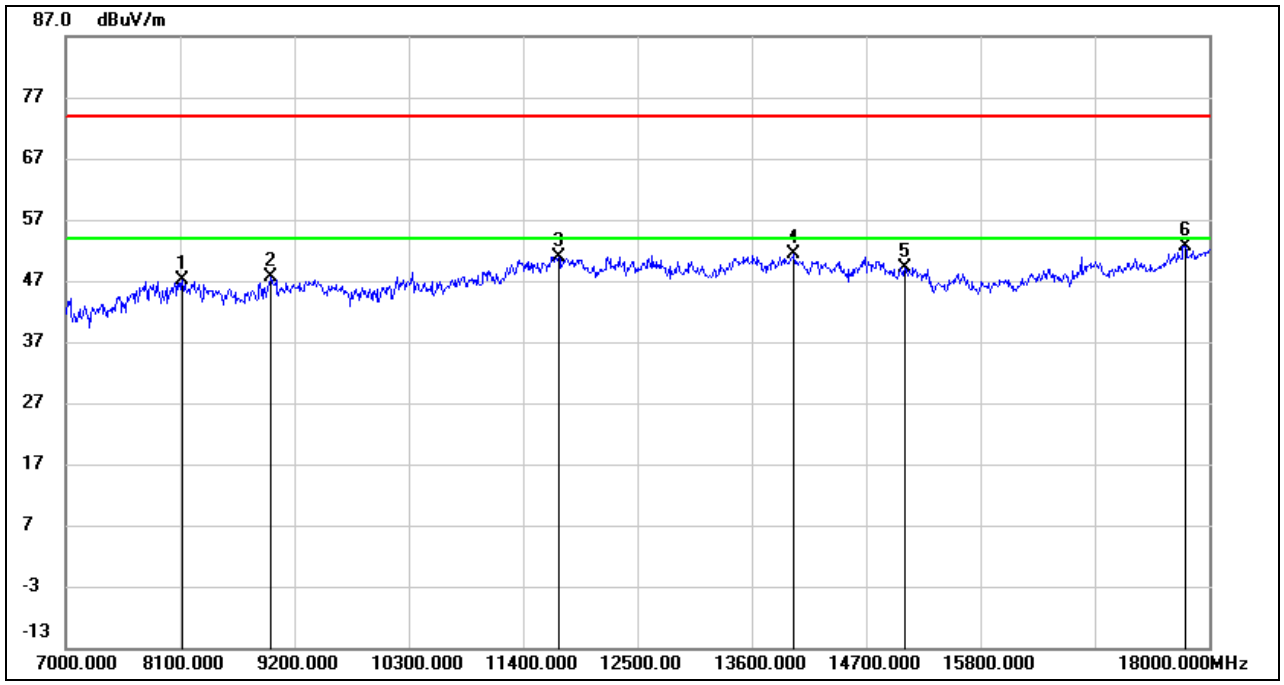
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	39.15	8.64	47.79	74.00	-26.21	peak
2	9574.000	36.76	10.90	47.66	74.00	-26.34	peak
3	11499.000	34.57	16.45	51.02	74.00	-22.98	peak
4	13556.000	31.79	19.11	50.90	74.00	-23.10	peak
5	14733.000	33.20	17.50	50.70	74.00	-23.30	peak
6	17791.000	28.18	24.12	52.30	74.00	-21.70	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

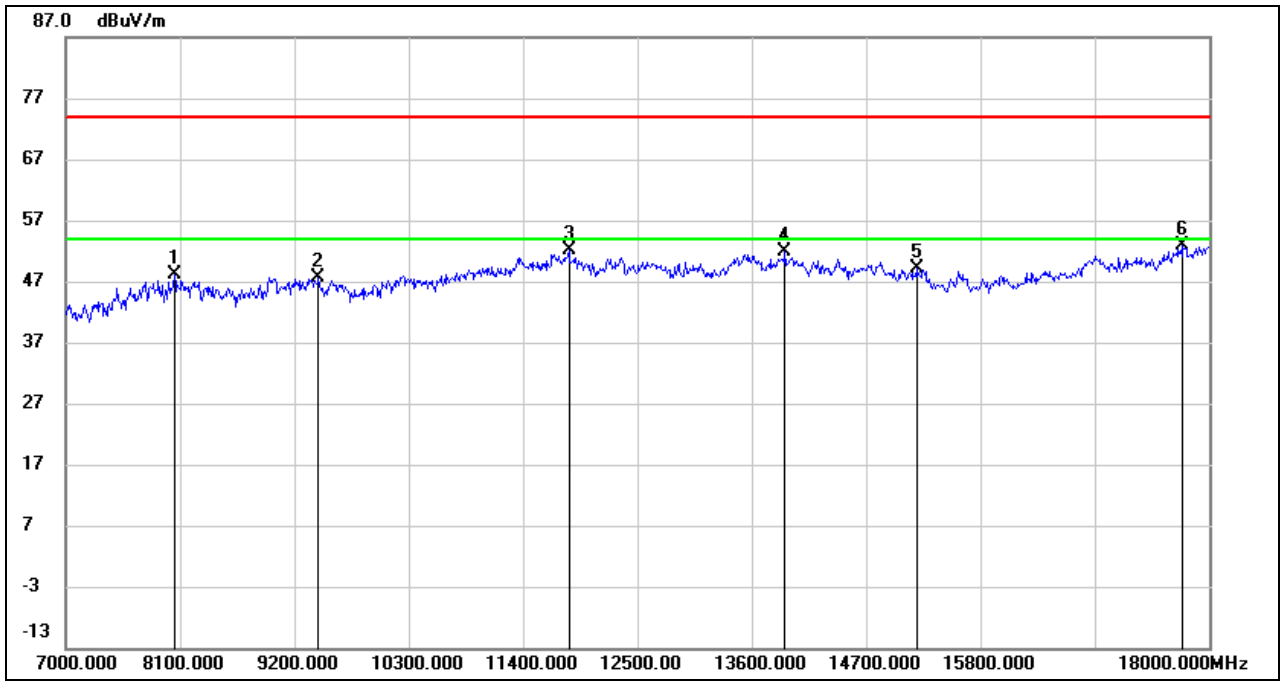
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	37.60	9.47	47.07	74.00	-26.93	peak
2	8969.000	37.34	10.17	47.51	74.00	-26.49	peak
3	11741.000	33.90	17.05	50.95	74.00	-23.05	peak
4	14007.000	31.93	19.34	51.27	74.00	-22.73	peak
5	15074.000	32.81	16.31	49.12	74.00	-24.88	peak
6	17769.000	28.79	23.92	52.71	74.00	-21.29	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

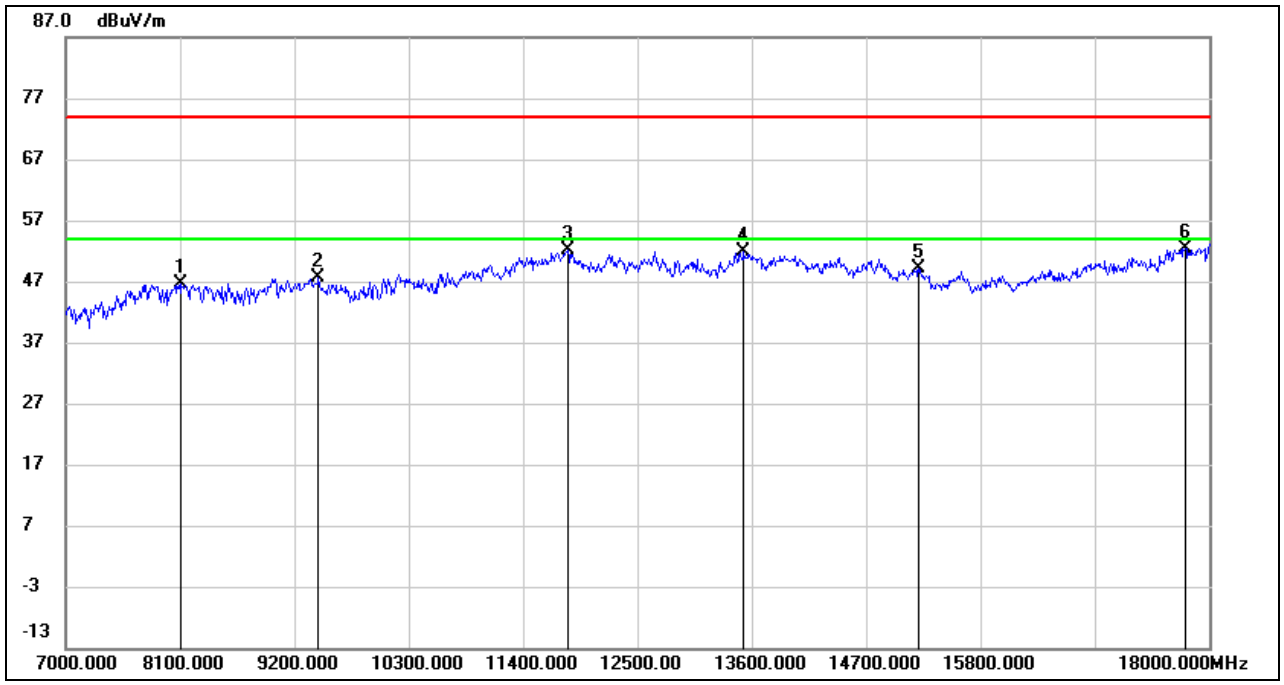
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8045.000	39.32	8.72	48.04	74.00	-25.96	peak
2	9431.000	36.96	10.68	47.64	74.00	-26.36	peak
3	11840.000	34.93	17.08	52.01	74.00	-21.99	peak
4	13919.000	32.48	19.30	51.78	74.00	-22.22	peak
5	15184.000	33.59	15.59	49.18	74.00	-24.82	peak
6	17747.000	29.02	23.74	52.76	74.00	-21.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

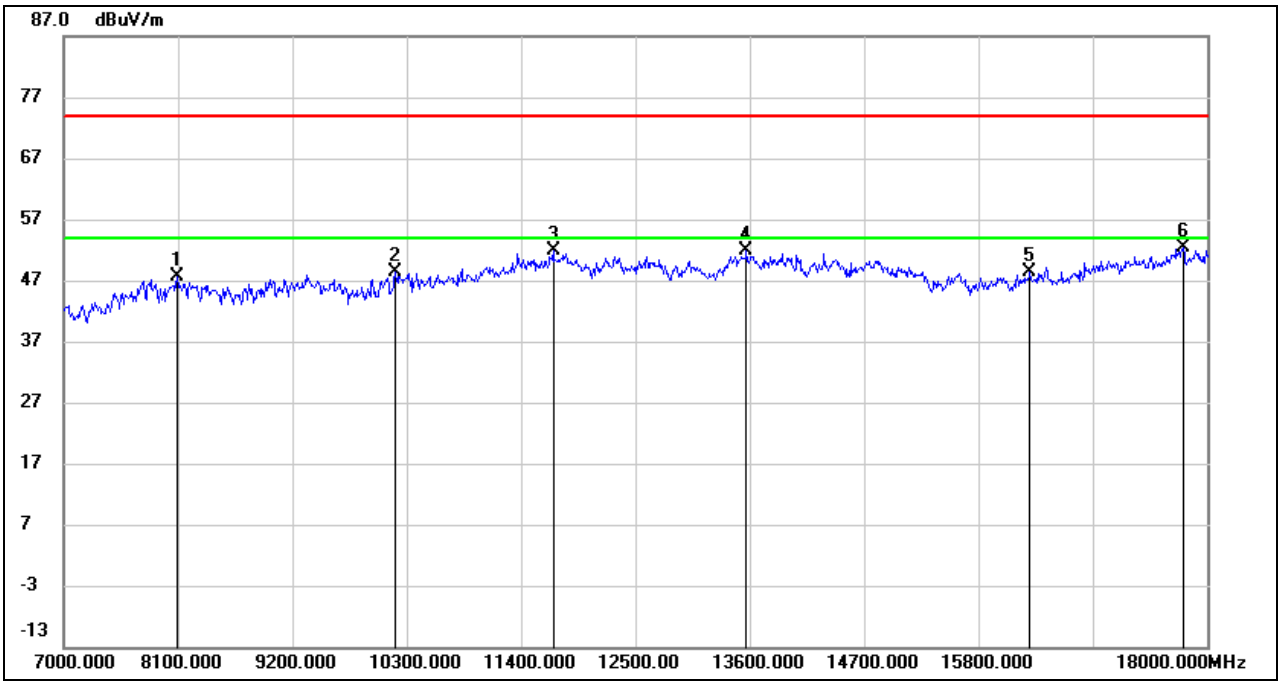


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	36.99	9.52	46.51	74.00	-27.49	peak
2	9431.000	36.89	10.68	47.57	74.00	-26.43	peak
3	11829.000	35.19	17.05	52.24	74.00	-21.76	peak
4	13523.000	32.76	19.18	51.94	74.00	-22.06	peak
5	15206.000	33.67	15.49	49.16	74.00	-24.84	peak
6	17769.000	28.54	23.92	52.46	74.00	-21.54	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2C BAND

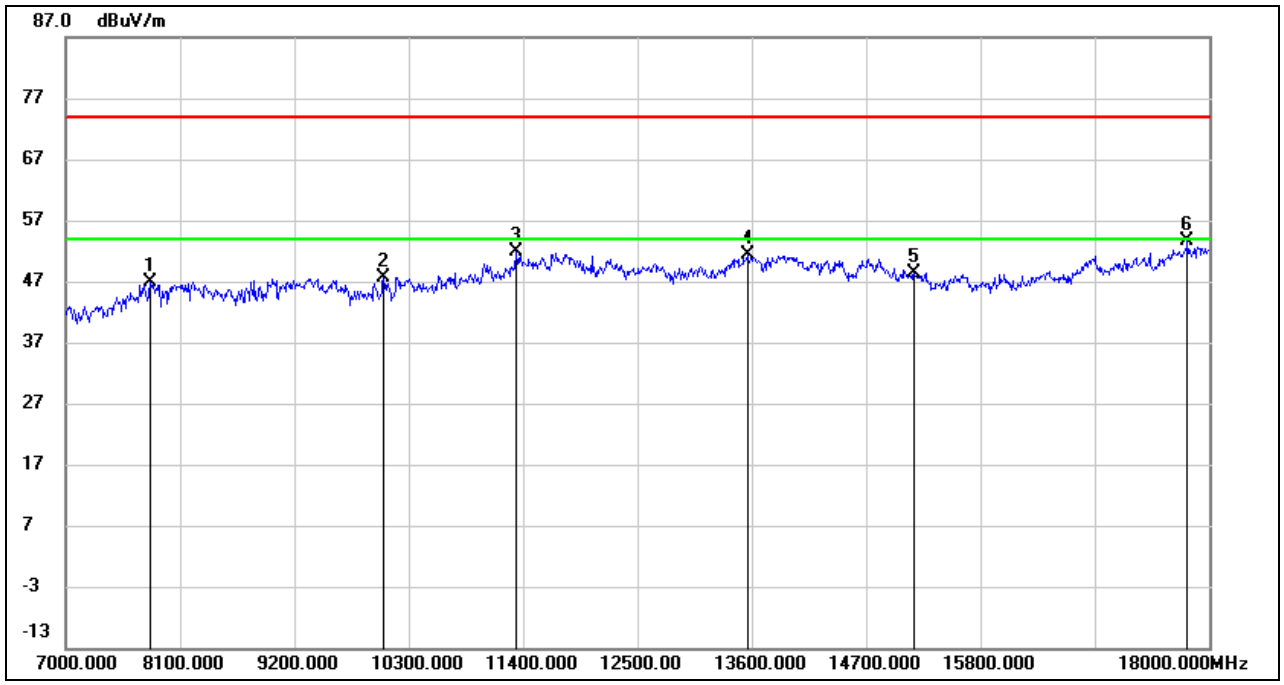
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8089.000	38.36	9.39	47.75	74.00	-26.25	peak
2	10190.000	36.33	12.02	48.35	74.00	-25.65	peak
3	11708.000	34.67	17.10	51.77	74.00	-22.23	peak
4	13567.000	32.76	19.10	51.86	74.00	-22.14	peak
5	16295.000	31.45	17.05	48.50	74.00	-25.50	peak
6	17769.000	28.36	23.92	52.28	74.00	-21.72	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

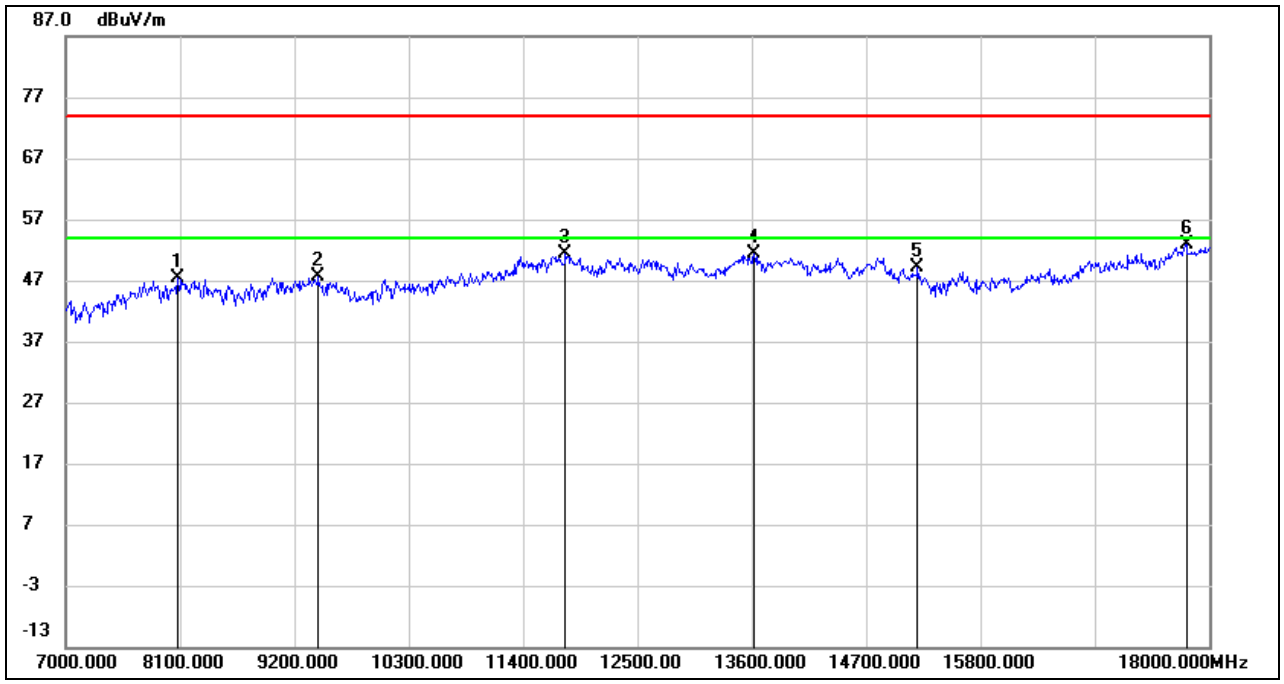
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	38.31	8.64	46.95	74.00	-27.05	peak
2	10058.000	36.01	11.62	47.63	74.00	-26.37	peak
3	11334.000	36.14	15.65	51.79	74.00	-22.21	peak
4	13556.000	32.32	19.11	51.43	74.00	-22.57	peak
5	15162.000	32.71	15.74	48.45	74.00	-25.55	peak
6	17791.000	29.51	24.12	53.63	74.00	-20.37	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

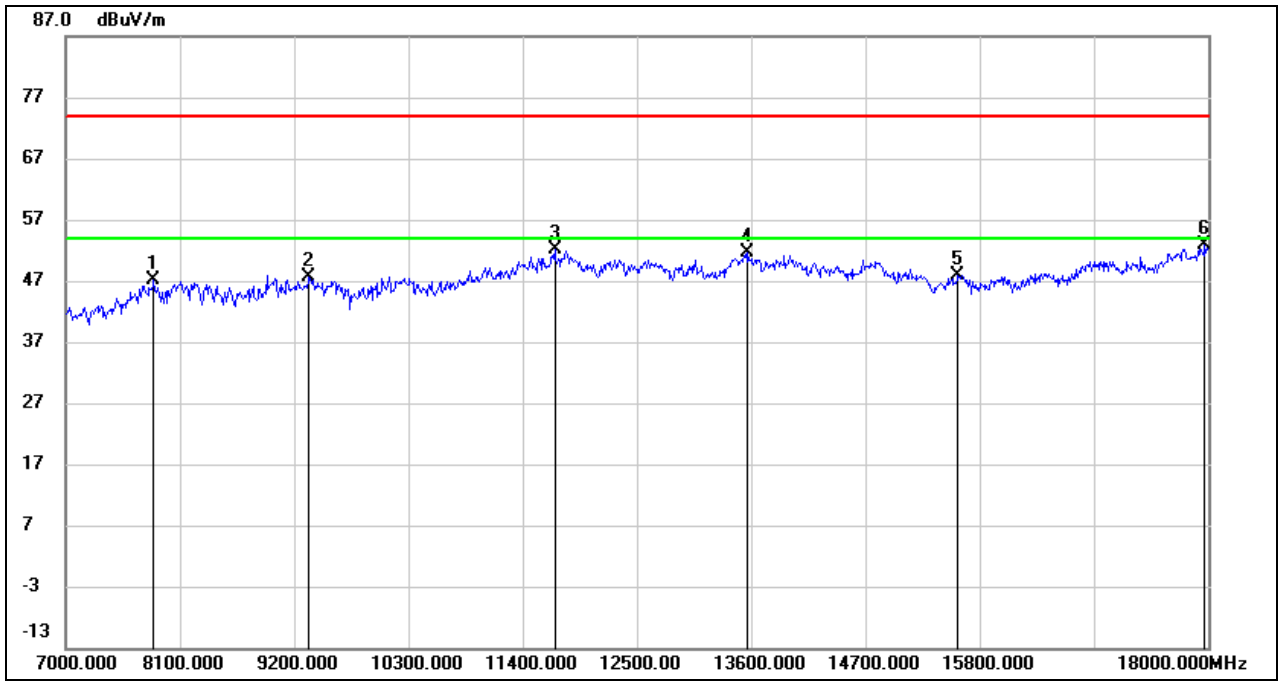
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8078.000	38.21	9.22	47.43	74.00	-26.57	peak
2	9431.000	37.07	10.68	47.75	74.00	-26.25	peak
3	11807.000	34.48	17.01	51.49	74.00	-22.51	peak
4	13622.000	32.14	19.13	51.27	74.00	-22.73	peak
5	15195.000	33.72	15.51	49.23	74.00	-24.77	peak
6	17780.000	28.82	24.02	52.84	74.00	-21.16	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

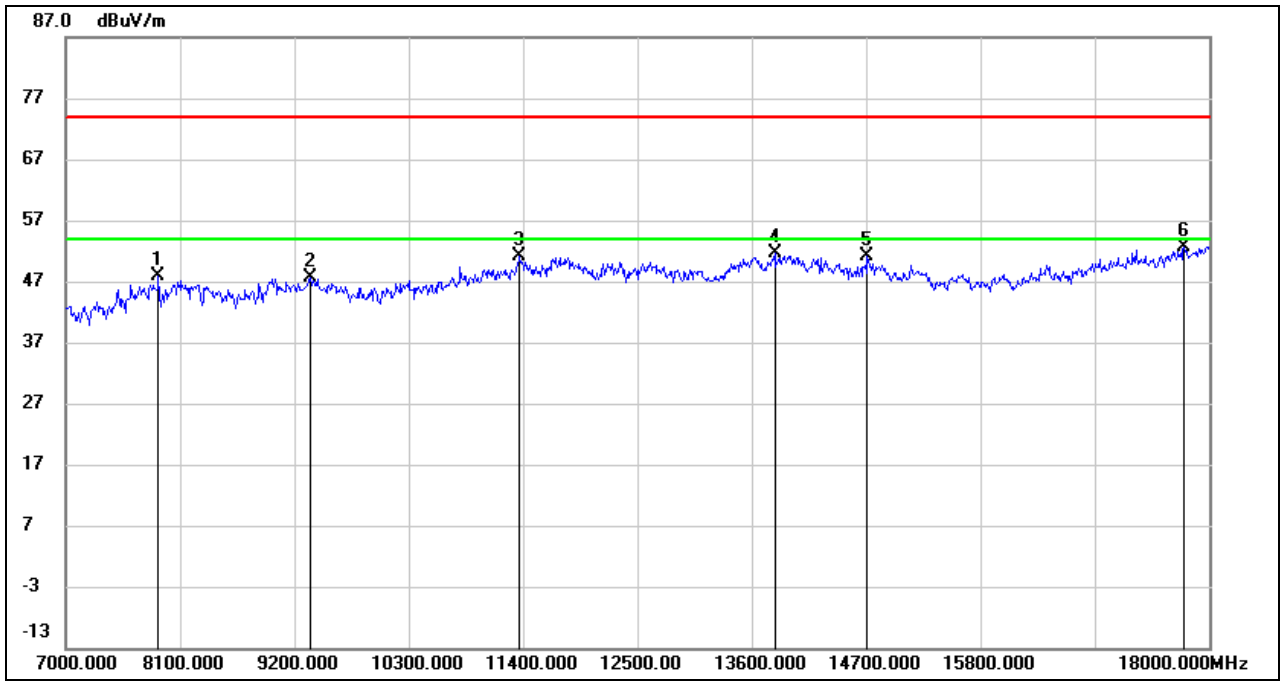
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7847.000	38.67	8.49	47.16	74.00	-26.84	peak
2	9343.000	37.12	10.42	47.54	74.00	-26.46	peak
3	11708.000	34.97	17.10	52.07	74.00	-21.93	peak
4	13567.000	32.56	19.10	51.66	74.00	-22.34	peak
5	15591.000	32.34	15.59	47.93	74.00	-26.07	peak
6	17967.000	28.10	24.75	52.85	74.00	-21.15	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

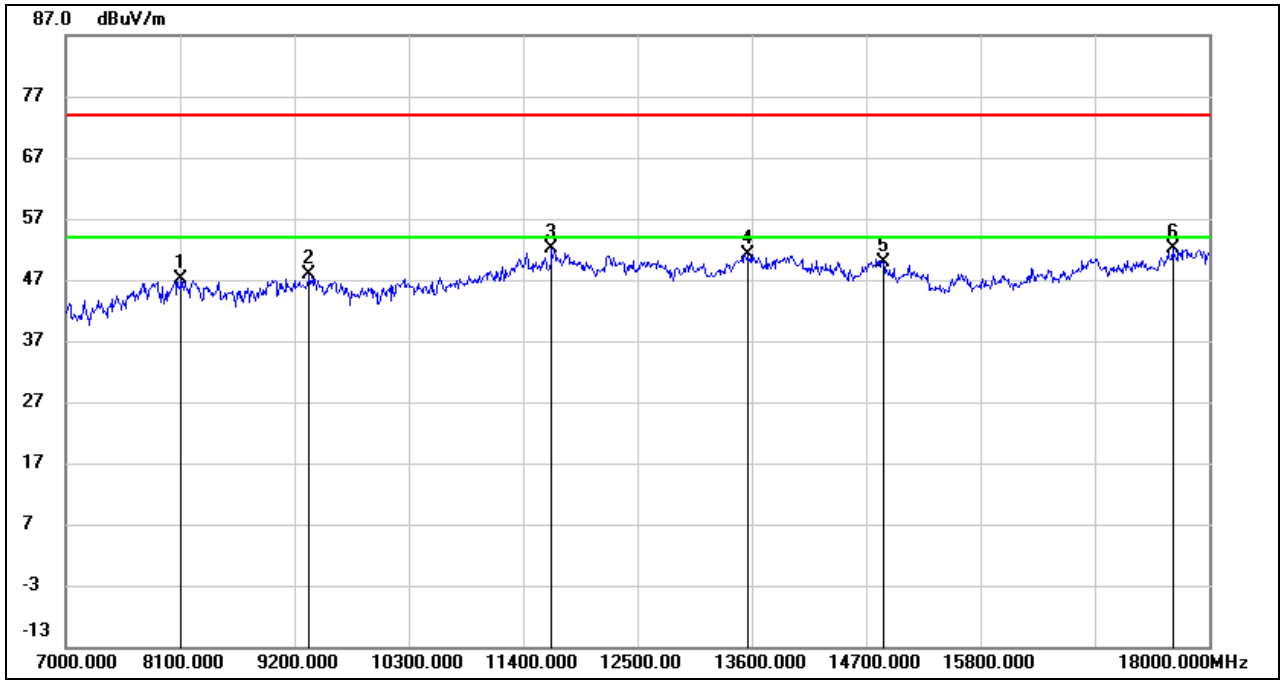
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7891.000	39.49	8.27	47.76	74.00	-26.24	peak
2	9354.000	37.07	10.49	47.56	74.00	-26.44	peak
3	11367.000	35.11	16.01	51.12	74.00	-22.88	peak
4	13820.000	32.27	19.39	51.66	74.00	-22.34	peak
5	14711.000	33.70	17.48	51.18	74.00	-22.82	peak
6	17758.000	28.73	23.83	52.56	74.00	-21.44	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

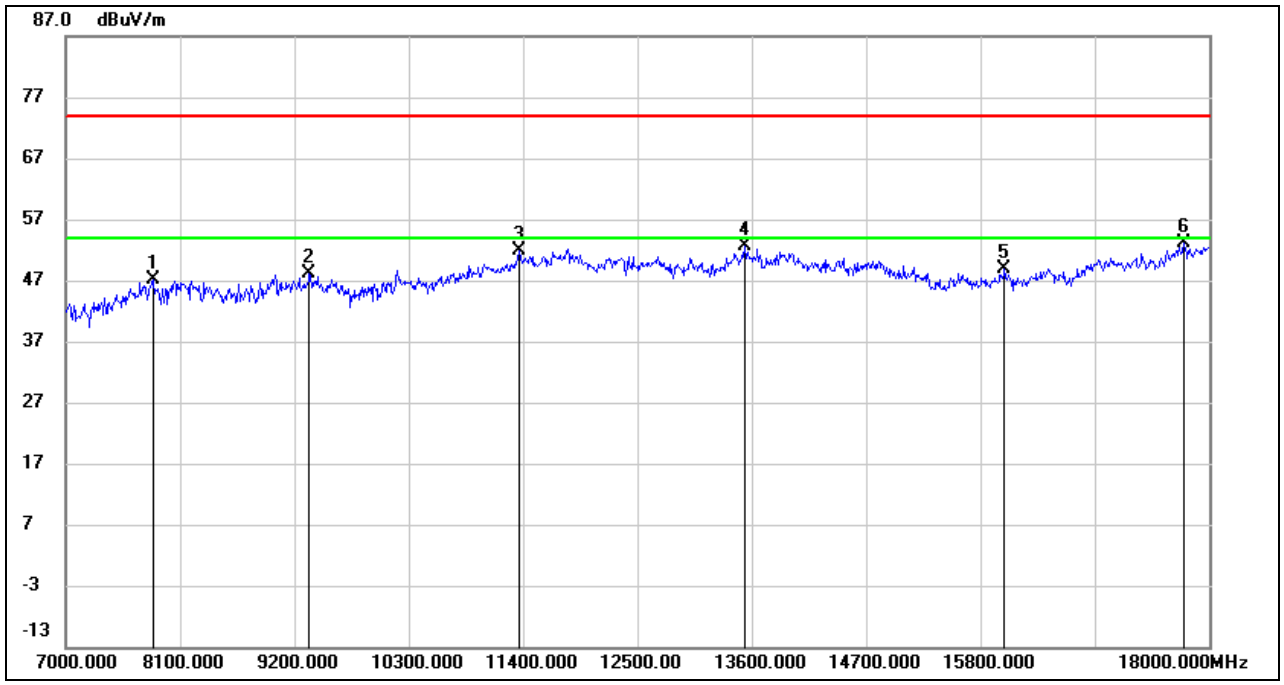


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	37.68	9.52	47.20	74.00	-26.80	peak
2	9343.000	37.51	10.42	47.93	74.00	-26.07	peak
3	11675.000	35.11	16.95	52.06	74.00	-21.94	peak
4	13567.000	32.10	19.10	51.20	74.00	-22.80	peak
5	14865.000	32.97	16.97	49.94	74.00	-24.06	peak
6	17648.000	29.27	22.80	52.07	74.00	-21.93	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 142

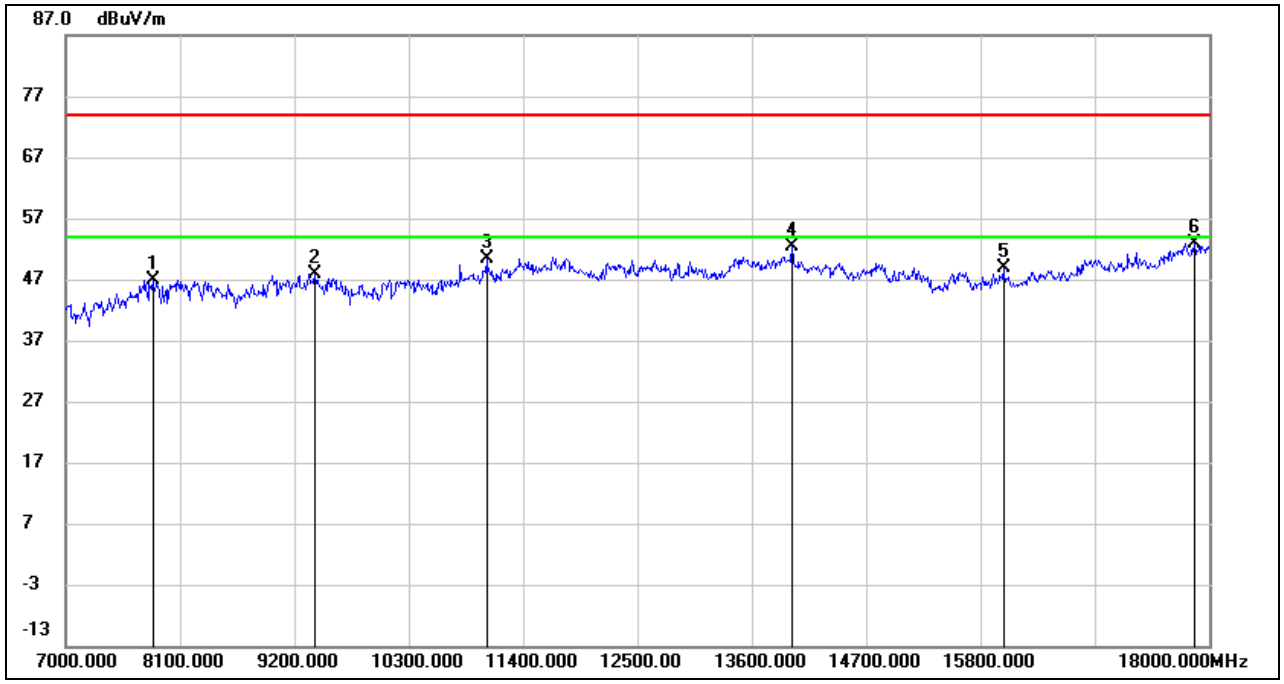
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.52	8.54	47.06	74.00	-26.94	peak
2	9343.000	37.70	10.42	48.12	74.00	-25.88	peak
3	11356.000	36.07	15.90	51.97	74.00	-22.03	peak
4	13534.000	33.39	19.16	52.55	74.00	-21.45	peak
5	16031.000	33.22	15.73	48.95	74.00	-25.05	peak
6	17758.000	29.22	23.83	53.05	74.00	-20.95	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)

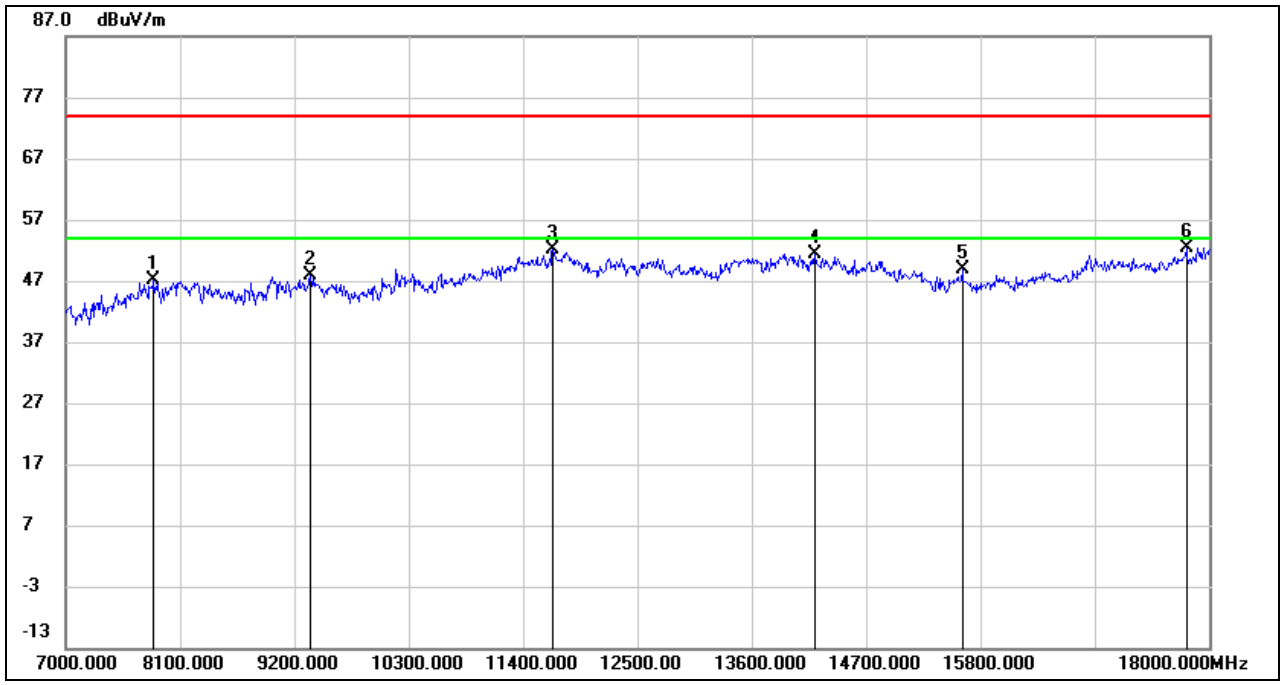


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.40	8.54	46.94	74.00	-27.06	peak
2	9398.000	37.14	10.78	47.92	74.00	-26.08	peak
3	11048.000	35.93	14.52	50.45	74.00	-23.55	peak
4	13985.000	33.04	19.36	52.40	74.00	-21.60	peak
5	16020.000	33.19	15.72	48.91	74.00	-25.09	peak
6	17857.000	28.67	24.26	52.93	74.00	-21.07	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND

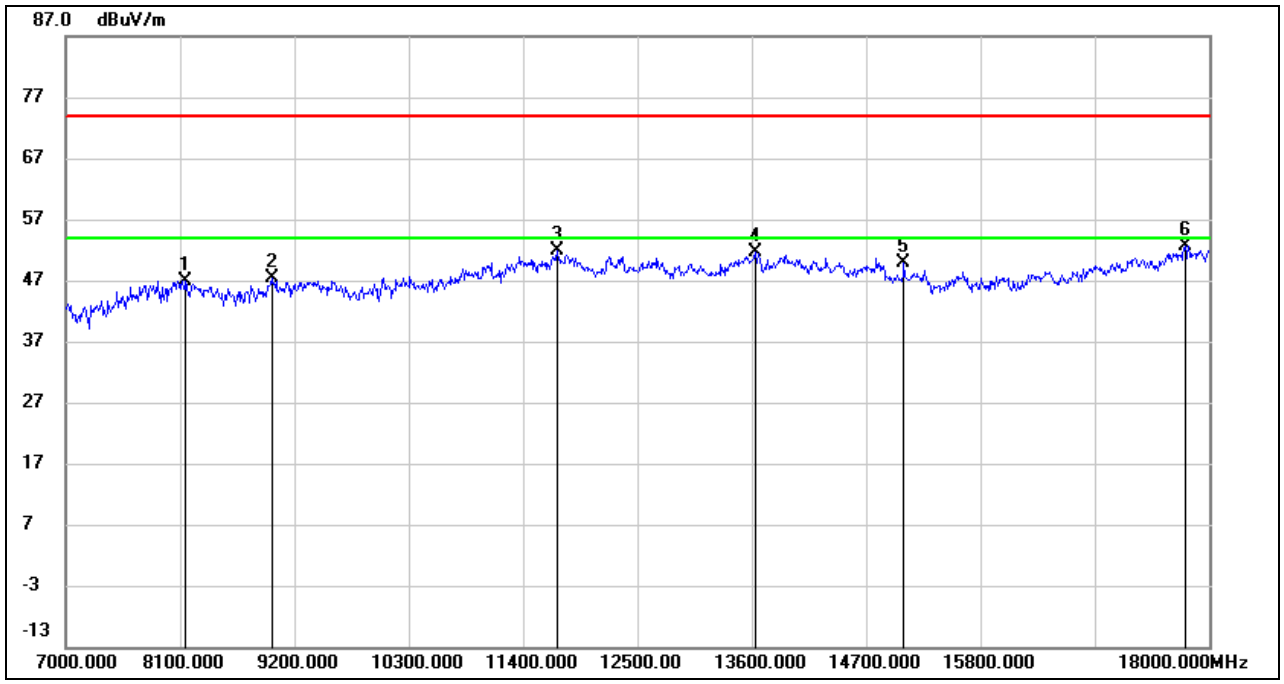
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7847.000	38.67	8.49	47.16	74.00	-26.84	peak
2	9354.000	37.46	10.49	47.95	74.00	-26.05	peak
3	11686.000	35.05	17.03	52.08	74.00	-21.92	peak
4	14205.000	32.36	18.93	51.29	74.00	-22.71	peak
5	15624.000	33.30	15.64	48.94	74.00	-25.06	peak
6	17780.000	28.29	24.02	52.31	74.00	-21.69	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

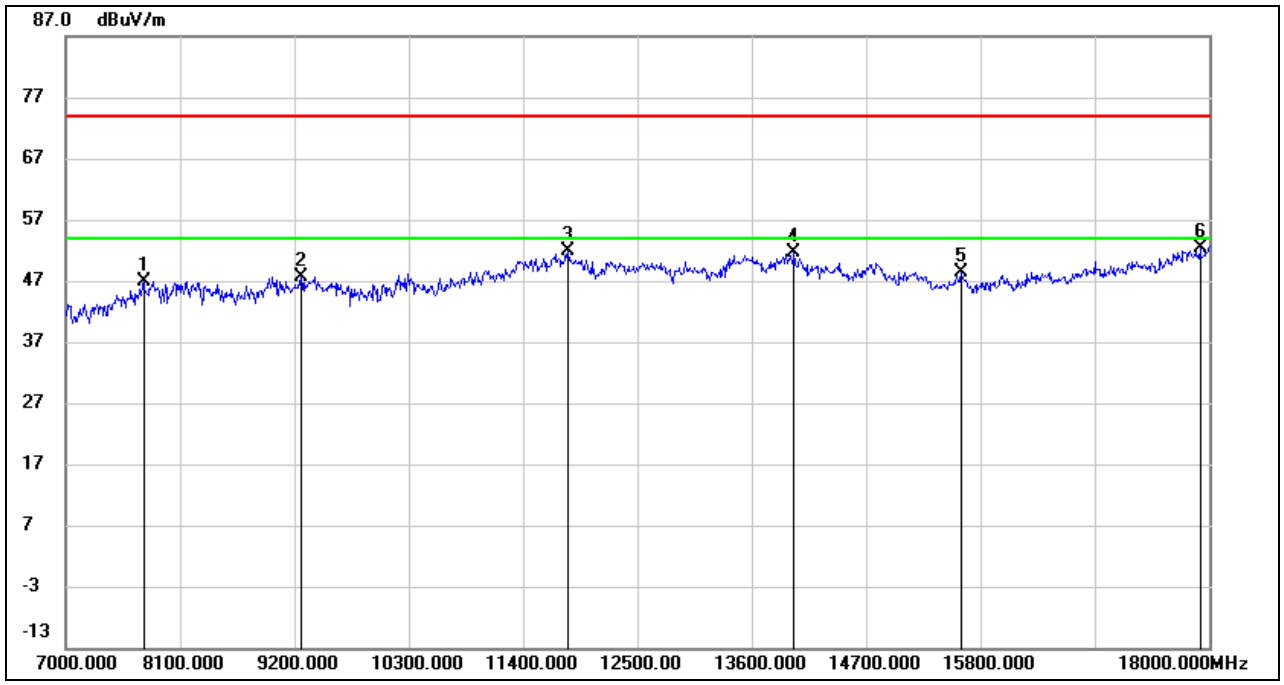
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8155.000	37.63	9.35	46.98	74.00	-27.02	peak
2	8980.000	37.05	10.39	47.44	74.00	-26.56	peak
3	11730.000	34.74	17.07	51.81	74.00	-22.19	peak
4	13633.000	32.40	19.19	51.59	74.00	-22.41	peak
5	15063.000	33.62	16.37	49.99	74.00	-24.01	peak
6	17769.000	28.80	23.92	52.72	74.00	-21.28	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

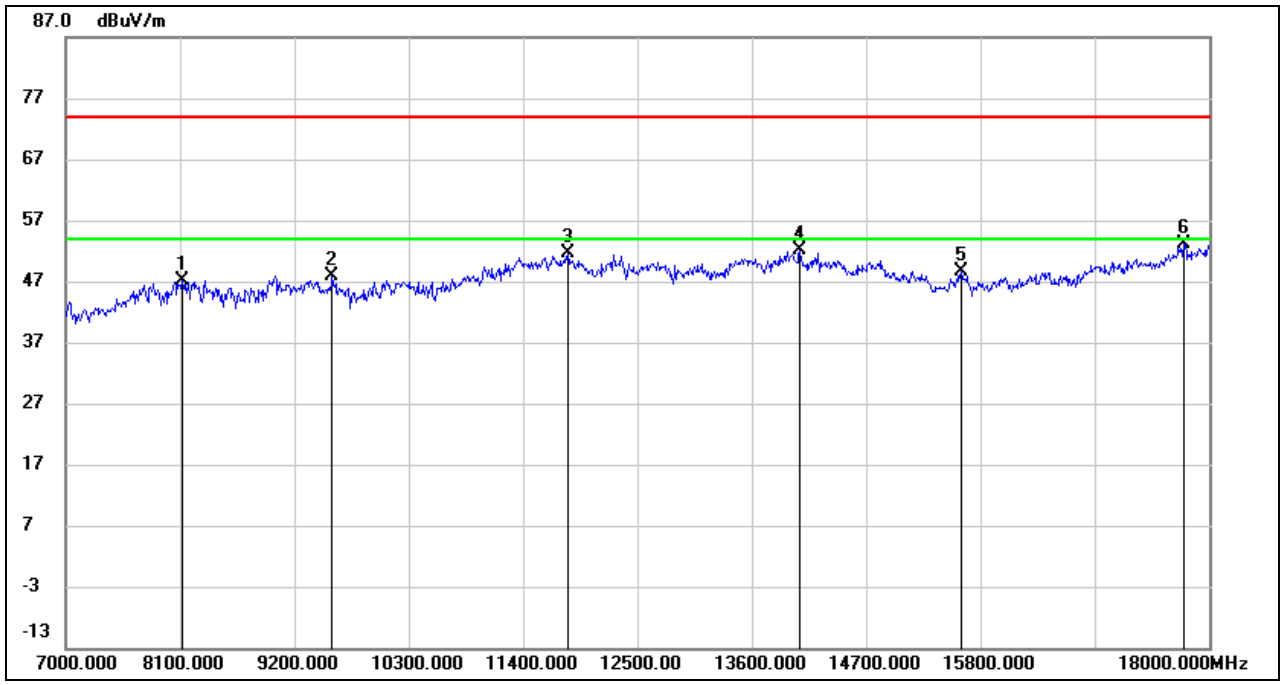
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7748.000	38.65	8.23	46.88	74.00	-27.12	peak
2	9266.000	37.74	9.95	47.69	74.00	-26.31	peak
3	11829.000	34.78	17.05	51.83	74.00	-22.17	peak
4	14007.000	32.26	19.34	51.60	74.00	-22.40	peak
5	15613.000	32.85	15.64	48.49	74.00	-25.51	peak
6	17912.000	27.88	24.39	52.27	74.00	-21.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



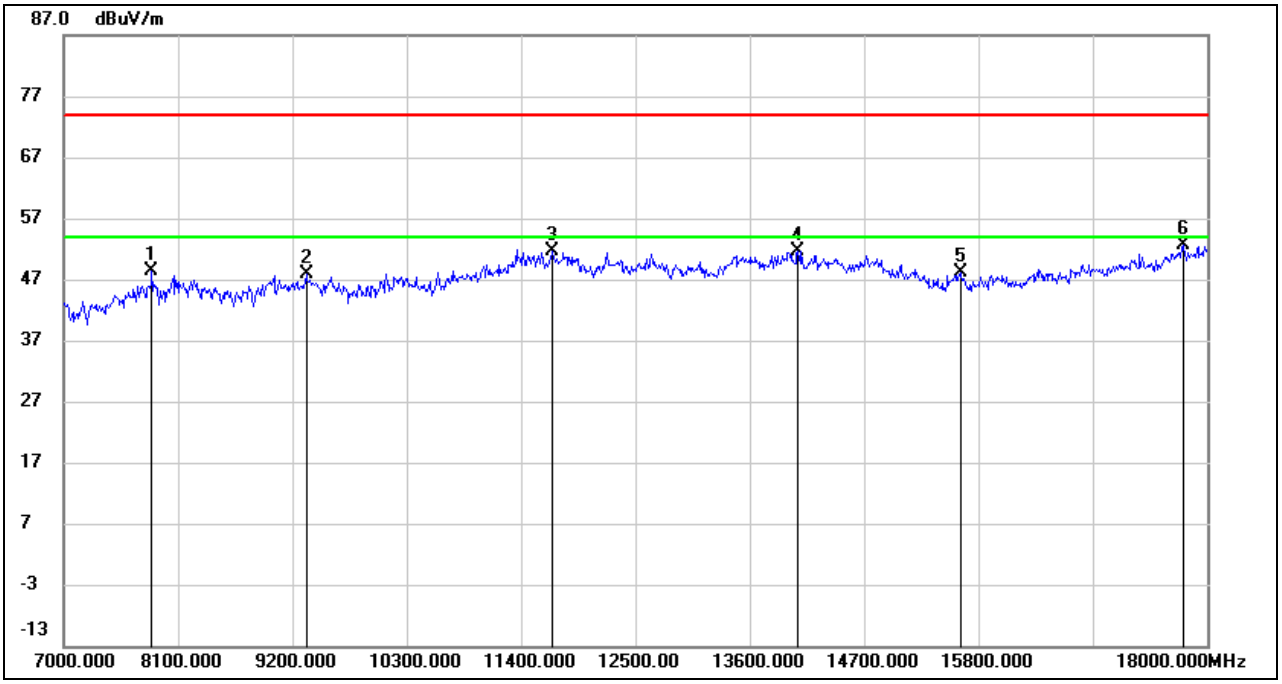
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	37.74	9.47	47.21	74.00	-26.79	peak
2	9563.000	37.03	10.82	47.85	74.00	-26.15	peak
3	11829.000	34.68	17.05	51.73	74.00	-22.27	peak
4	14062.000	33.01	19.07	52.08	74.00	-21.92	peak
5	15613.000	32.89	15.64	48.53	74.00	-25.47	peak
6	17758.000	29.33	23.83	53.16	74.00	-20.84	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.3.4. 802.11ac VHT80 MIMO MODE

UNII-1 BAND

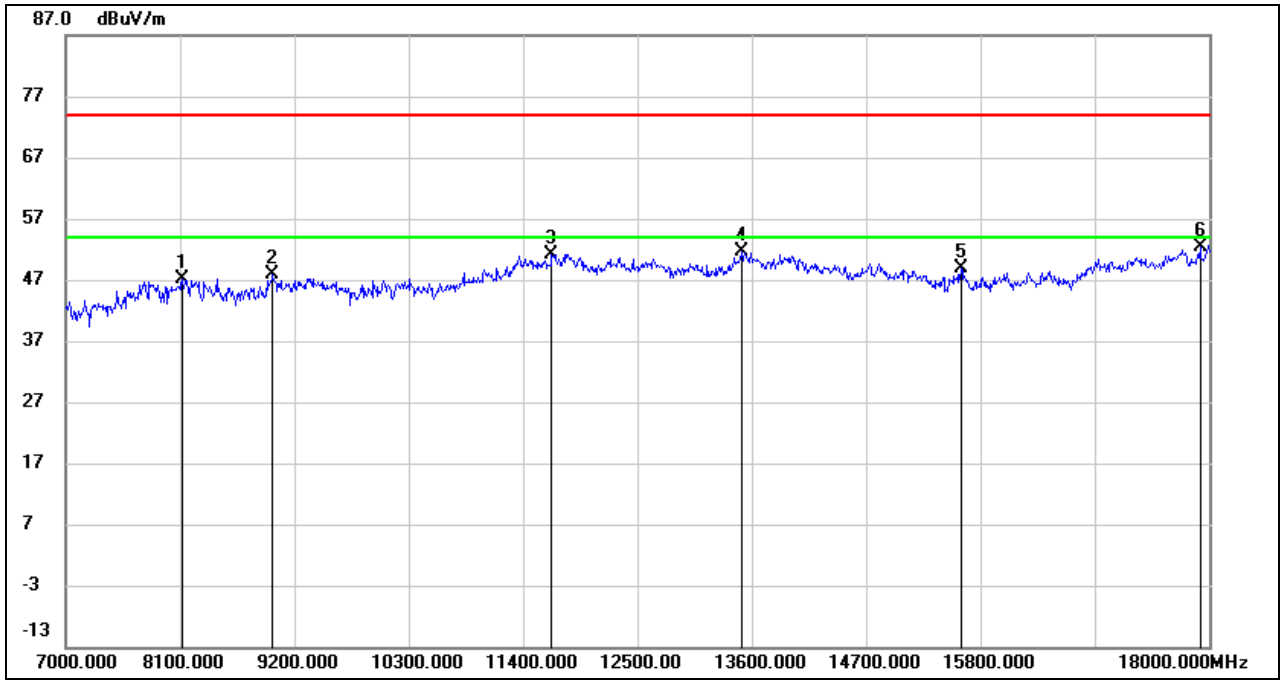
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7847.000	39.98	8.49	48.47	74.00	-25.53	peak
2	9332.000	37.51	10.35	47.86	74.00	-26.14	peak
3	11697.000	34.59	17.10	51.69	74.00	-22.31	peak
4	14062.000	32.55	19.07	51.62	74.00	-22.38	peak
5	15624.000	32.59	15.64	48.23	74.00	-25.77	peak
6	17769.000	28.71	23.92	52.63	74.00	-21.37	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

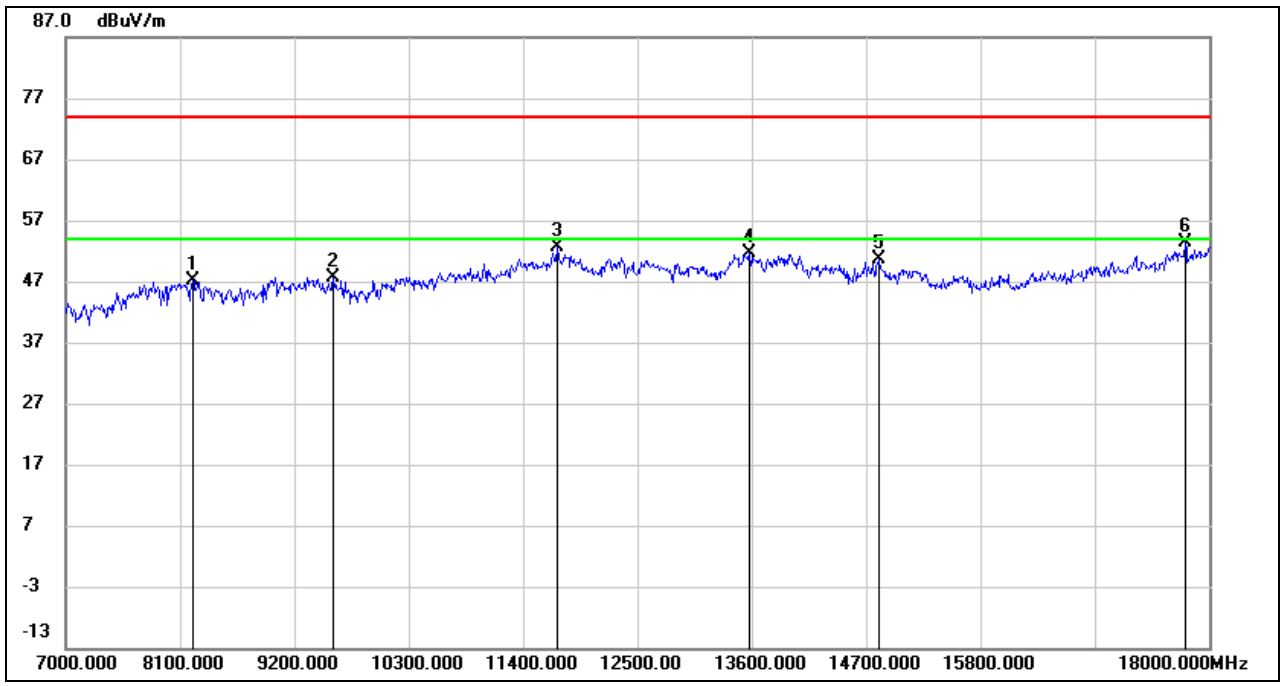


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	37.71	9.47	47.18	74.00	-26.82	peak
2	8991.000	37.16	10.60	47.76	74.00	-26.24	peak
3	11675.000	34.24	16.95	51.19	74.00	-22.81	peak
4	13501.000	32.35	19.22	51.57	74.00	-22.43	peak
5	15613.000	33.12	15.64	48.76	74.00	-25.24	peak
6	17912.000	27.94	24.39	52.33	74.00	-21.67	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-2A BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	37.97	9.14	47.11	74.00	-26.89	peak
2	9574.000	36.80	10.90	47.70	74.00	-26.30	peak
3	11730.000	35.63	17.07	52.70	74.00	-21.30	peak
4	13578.000	32.65	19.08	51.73	74.00	-22.27	peak
5	14821.000	33.32	17.36	50.68	74.00	-23.32	peak
6	17769.000	29.43	23.92	53.35	74.00	-20.65	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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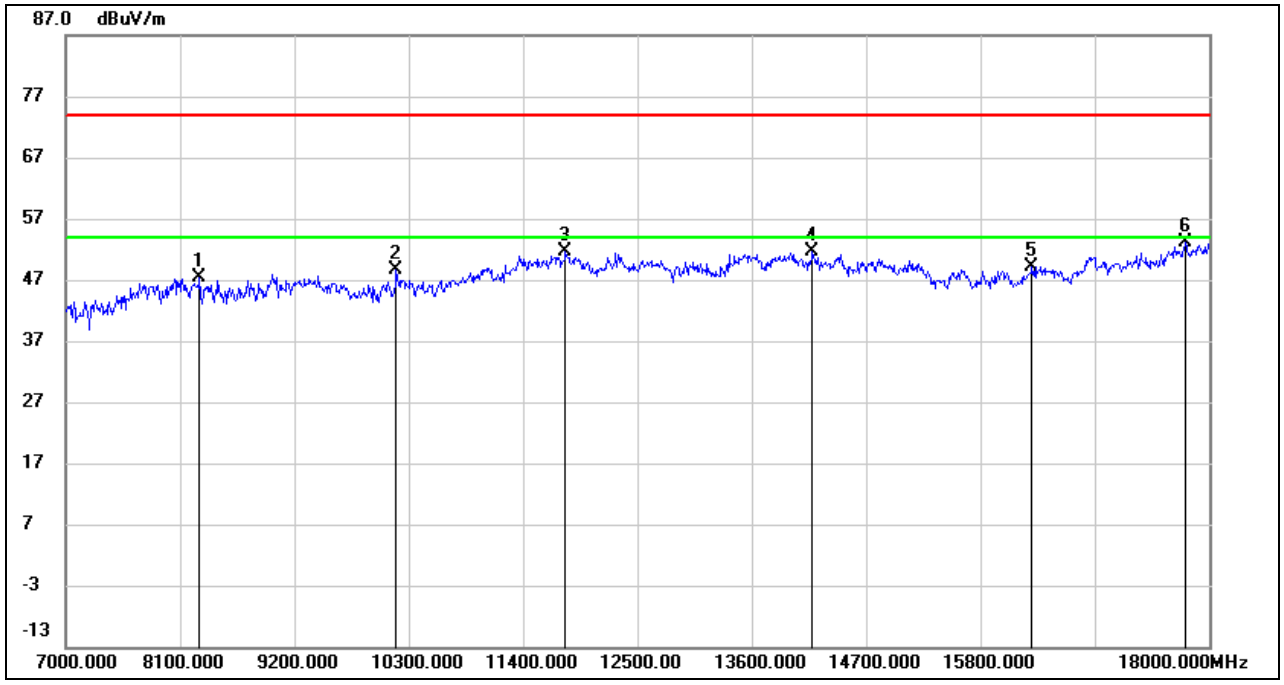
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8287.000	38.24	9.05	47.29	74.00	-26.71	peak
2	10179.000	36.66	11.97	48.63	74.00	-25.37	peak
3	11807.000	34.72	17.01	51.73	74.00	-22.27	peak
4	14183.000	32.72	18.92	51.64	74.00	-22.36	peak
5	16295.000	32.12	17.05	49.17	74.00	-24.83	peak
6	17769.000	29.33	23.92	53.25	74.00	-20.75	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

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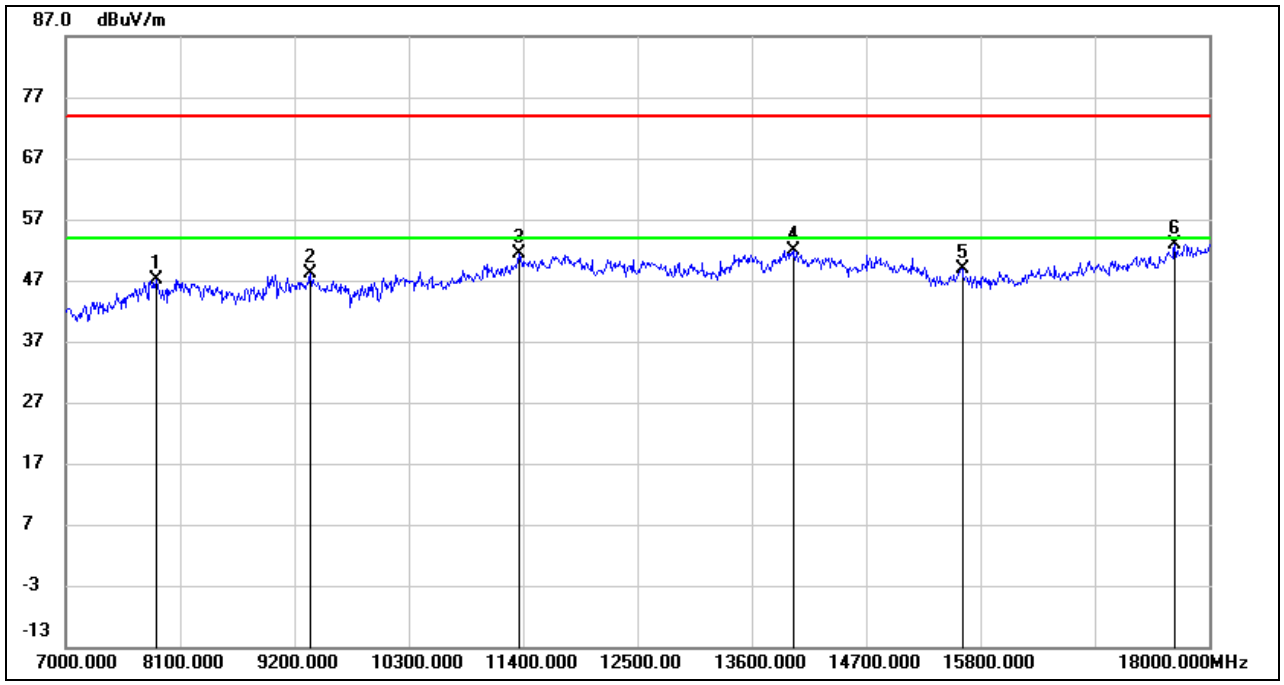
UNII-2C BAND

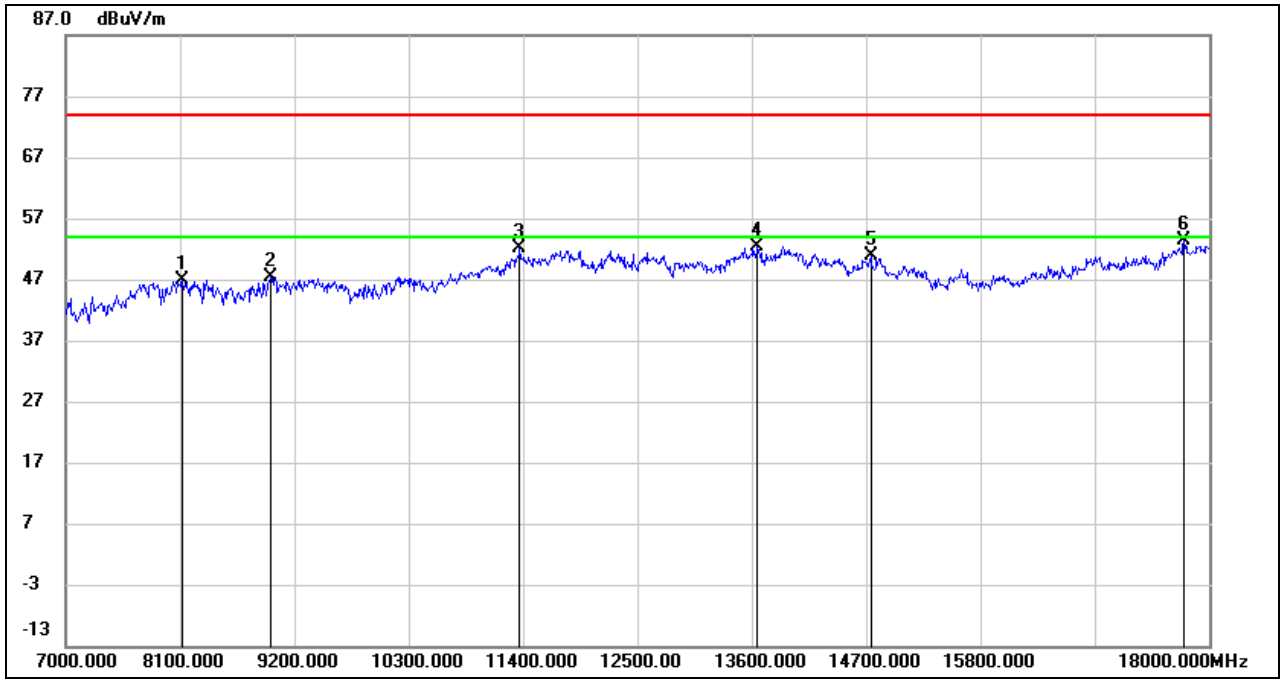
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7869.000	38.73	8.39	47.12	74.00	-26.88	peak
2	9354.000	37.57	10.49	48.06	74.00	-25.94	peak
3	11356.000	35.56	15.90	51.46	74.00	-22.54	peak
4	14007.000	32.56	19.34	51.90	74.00	-22.10	peak
5	15624.000	33.21	15.64	48.85	74.00	-25.15	peak
6	17670.000	29.94	23.02	52.96	74.00	-21.04	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

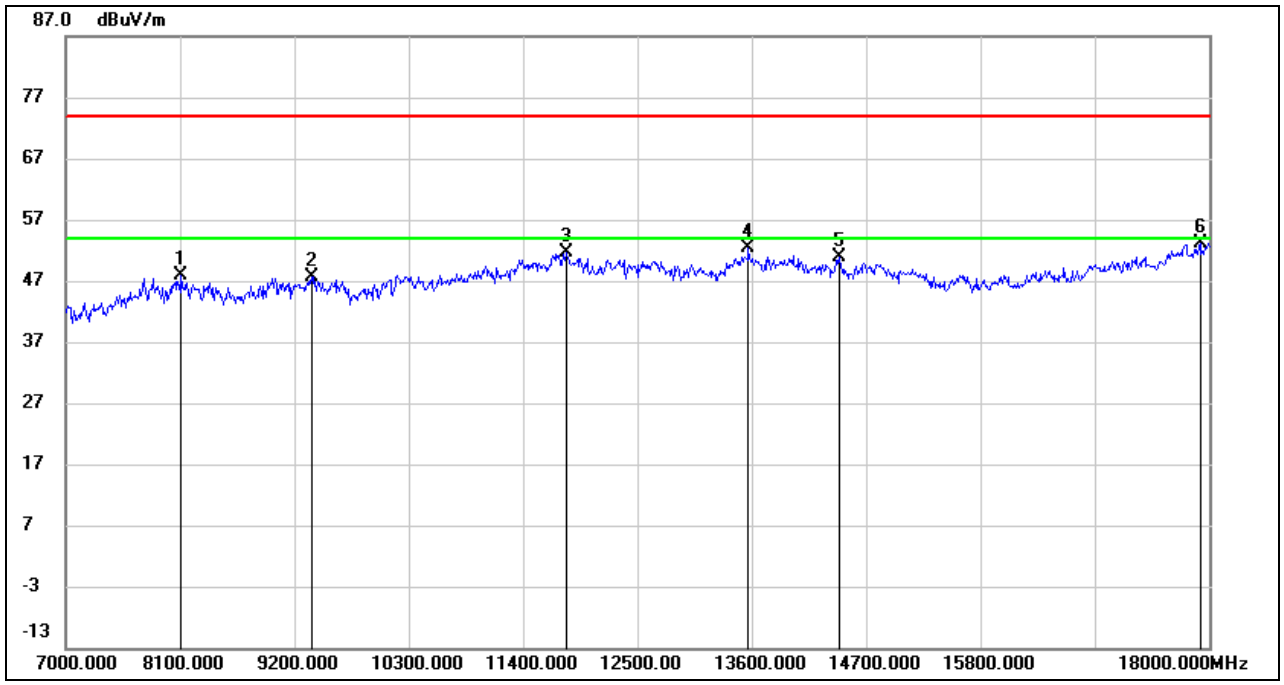
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8122.000	37.38	9.47	46.85	74.00	-27.15	peak
2	8969.000	37.18	10.17	47.35	74.00	-26.65	peak
3	11367.000	36.11	16.01	52.12	74.00	-21.88	peak
4	13655.000	33.15	19.29	52.44	74.00	-21.56	peak
5	14744.000	33.31	17.50	50.81	74.00	-23.19	peak
6	17758.000	29.58	23.83	53.41	74.00	-20.59	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	38.41	9.52	47.93	74.00	-26.07	peak
2	9365.000	37.12	10.56	47.68	74.00	-26.32	peak
3	11818.000	34.54	17.02	51.56	74.00	-22.44	peak
4	13567.000	33.34	19.10	52.44	74.00	-21.56	peak
5	14436.000	33.02	17.81	50.83	74.00	-23.17	peak
6	17912.000	28.78	24.39	53.17	74.00	-20.83	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.
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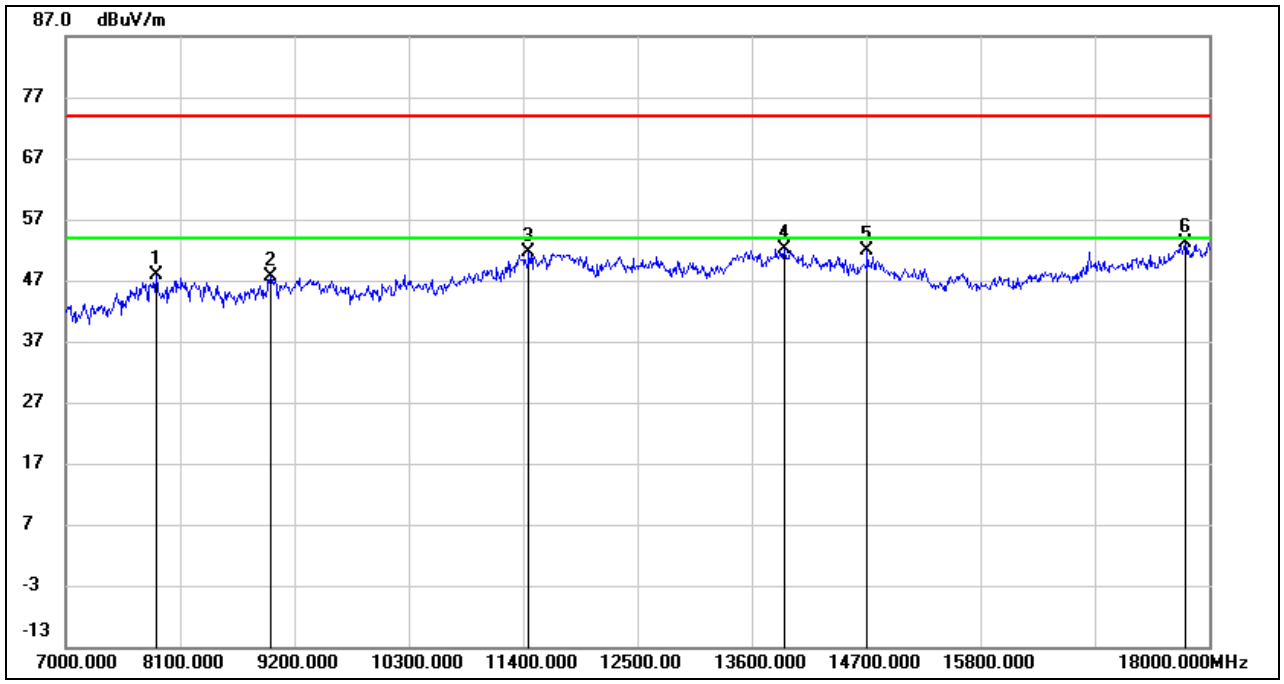
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

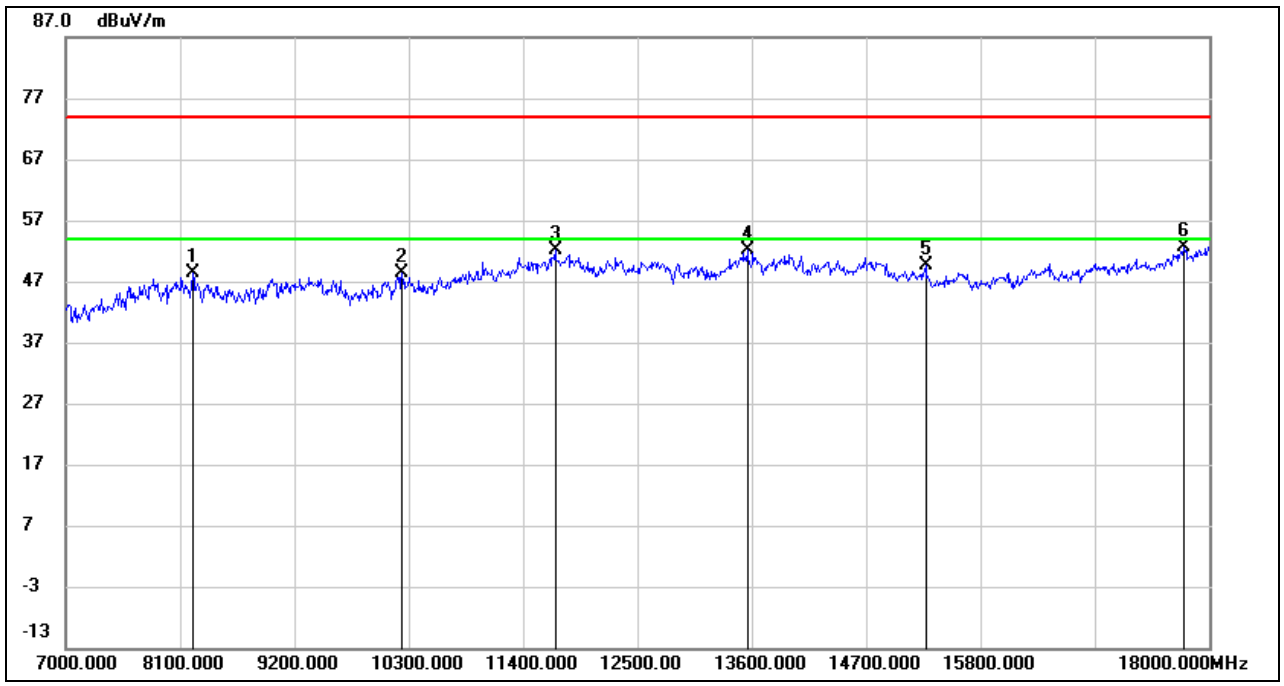


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7869.000	39.37	8.39	47.76	74.00	-26.24	peak
2	8969.000	37.50	10.17	47.67	74.00	-26.33	peak
3	11455.000	35.22	16.41	51.63	74.00	-22.37	peak
4	13908.000	32.72	19.30	52.02	74.00	-21.98	peak
5	14711.000	34.42	17.48	51.90	74.00	-22.10	peak
6	17769.000	29.19	23.92	53.11	74.00	-20.89	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

STRADDLE CHANNEL 138

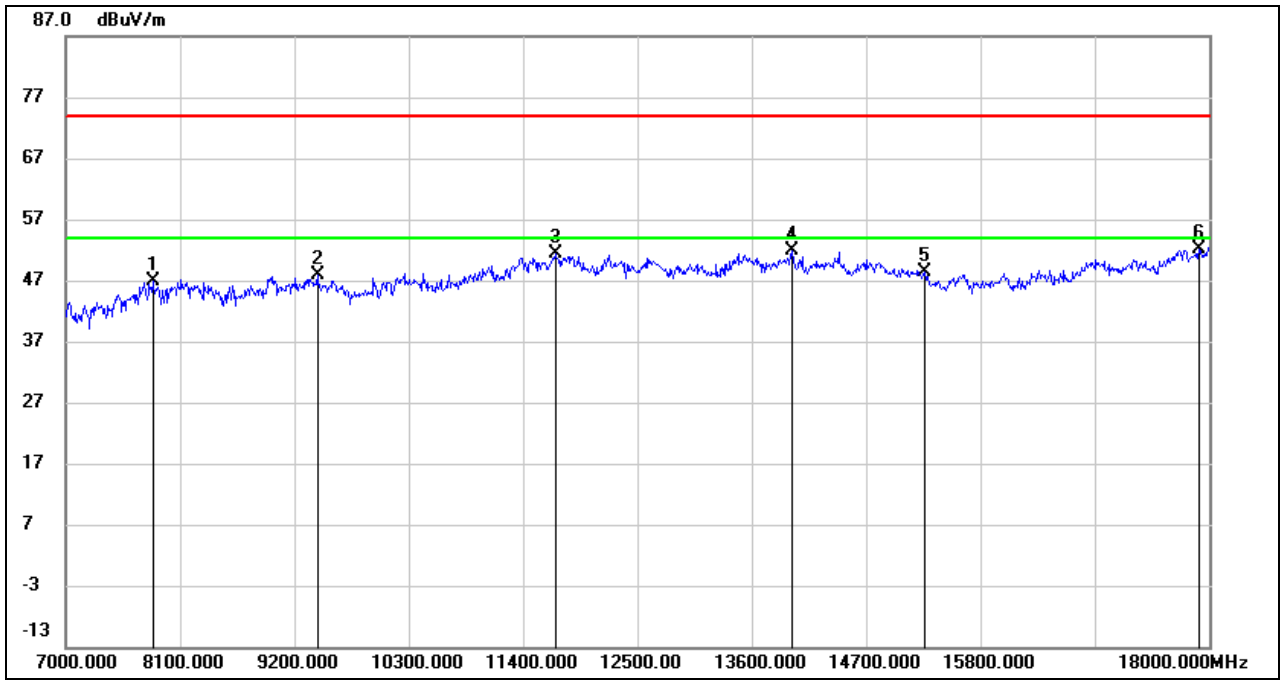
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	39.21	9.14	48.35	74.00	-25.65	peak
2	10234.000	36.27	12.16	48.43	74.00	-25.57	peak
3	11708.000	34.95	17.10	52.05	74.00	-21.95	peak
4	13556.000	32.92	19.11	52.03	74.00	-21.97	peak
5	15272.000	34.17	15.52	49.69	74.00	-24.31	peak
6	17758.000	28.69	23.83	52.52	74.00	-21.48	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

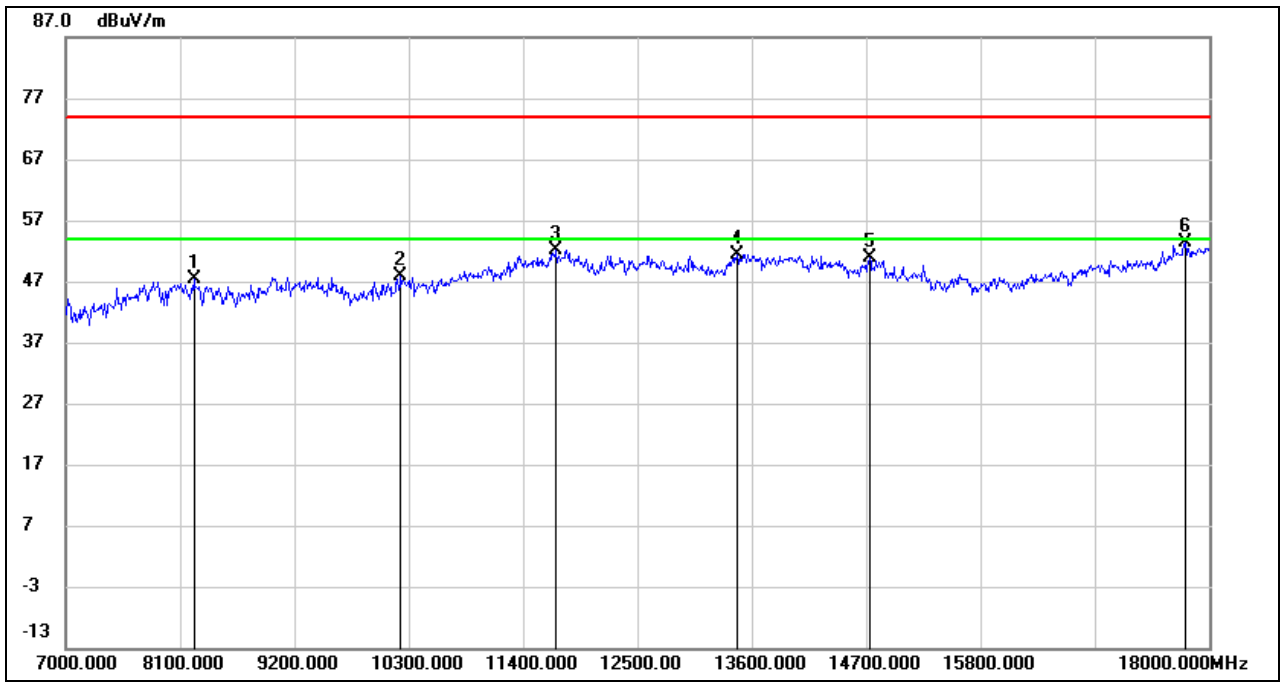


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.24	8.54	46.78	74.00	-27.22	peak
2	9420.000	37.14	10.71	47.85	74.00	-26.15	peak
3	11708.000	34.23	17.10	51.33	74.00	-22.67	peak
4	13985.000	32.46	19.36	51.82	74.00	-22.18	peak
5	15261.000	32.82	15.51	48.33	74.00	-25.67	peak
6	17901.000	27.83	24.32	52.15	74.00	-21.85	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

UNII-3 BAND

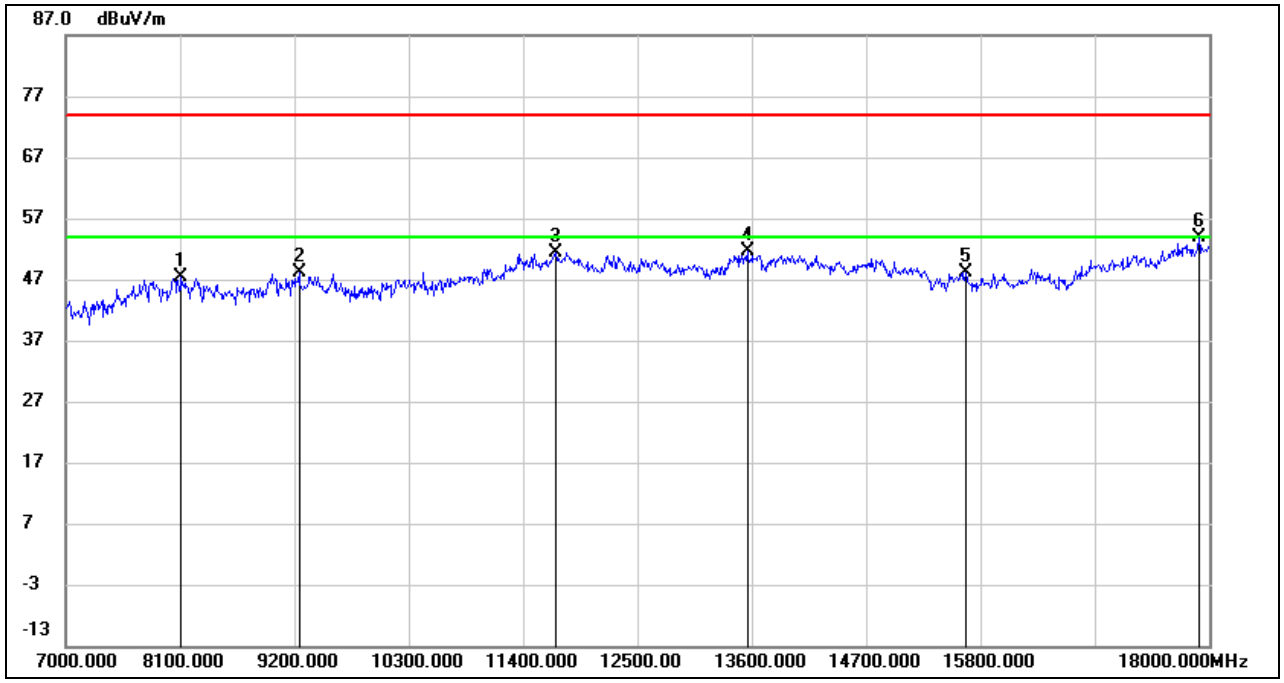
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	38.23	9.13	47.36	74.00	-26.64	peak
2	10223.000	35.66	12.11	47.77	74.00	-26.23	peak
3	11719.000	35.12	17.09	52.21	74.00	-21.79	peak
4	13457.000	32.38	19.10	51.48	74.00	-22.52	peak
5	14733.000	33.39	17.50	50.89	74.00	-23.11	peak
6	17769.000	29.35	23.92	53.27	74.00	-20.73	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



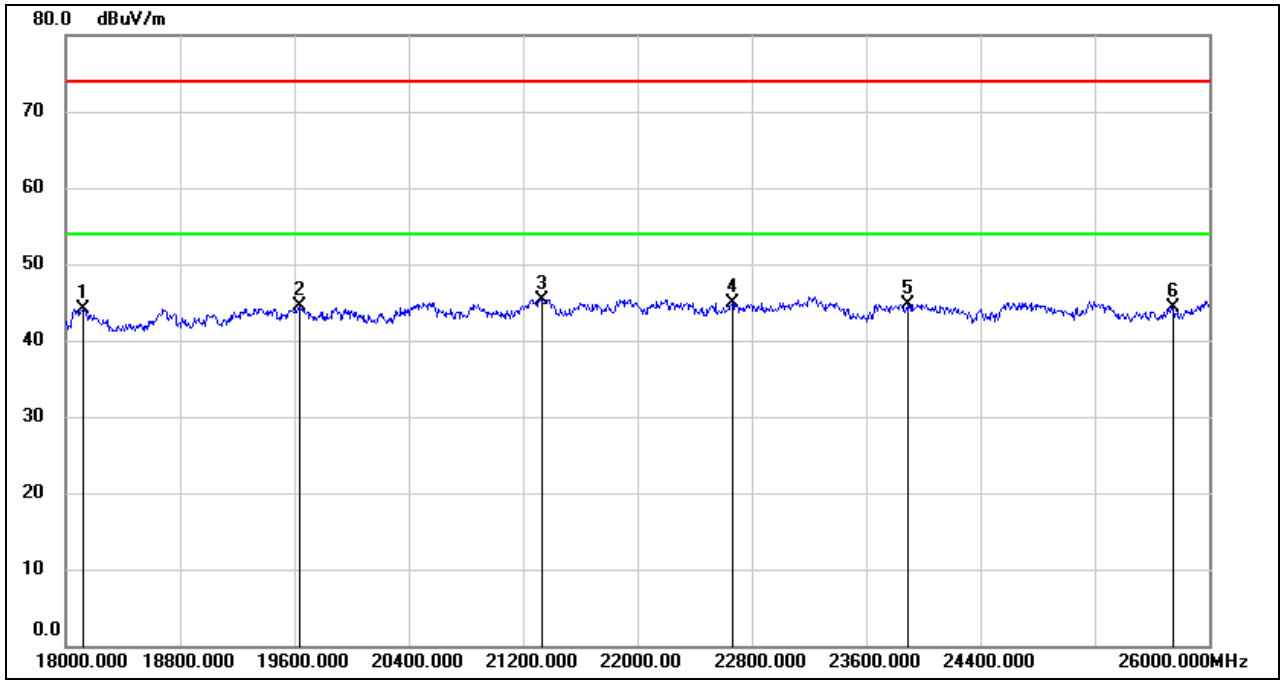
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	37.76	9.52	47.28	74.00	-26.72	peak
2	9244.000	38.28	9.81	48.09	74.00	-25.91	peak
3	11719.000	34.29	17.09	51.38	74.00	-22.62	peak
4	13556.000	32.43	19.11	51.54	74.00	-22.46	peak
5	15657.000	32.46	15.62	48.08	74.00	-25.92	peak
6	17901.000	29.44	24.32	53.76	74.00	-20.24	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.
5. For the transmitting duration, please refer to clause 7.1.
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

8.4. SPURIOUS EMISSIONS (18 GHz ~ 26 GHz)

8.4.1. 802.11n HT40 MODE

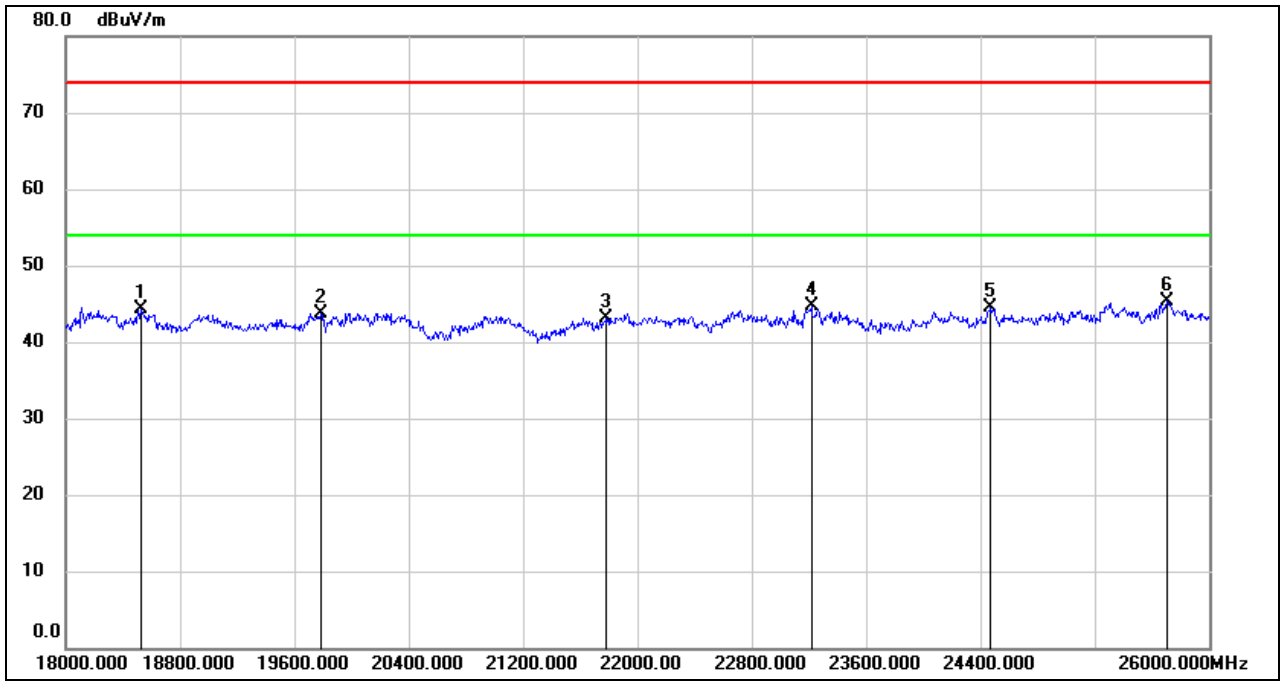
SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18120.000	49.59	-5.46	44.13	74.00	-29.87	peak
2	19640.000	49.79	-5.38	44.41	74.00	-29.59	peak
3	21336.000	50.12	-4.74	45.38	74.00	-28.62	peak
4	22664.000	48.63	-3.76	44.87	74.00	-29.13	peak
5	23896.000	47.61	-2.93	44.68	74.00	-29.32	peak
6	25744.000	45.00	-0.64	44.36	74.00	-29.64	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18528.000	49.61	-5.26	44.35	74.00	-29.65	peak
2	19784.000	49.07	-5.28	43.79	74.00	-30.21	peak
3	21784.000	47.40	-4.34	43.06	74.00	-30.94	peak
4	23216.000	48.01	-3.38	44.63	74.00	-29.37	peak
5	24472.000	46.87	-2.38	44.49	74.00	-29.51	peak
6	25704.000	46.04	-0.83	45.21	74.00	-28.79	peak

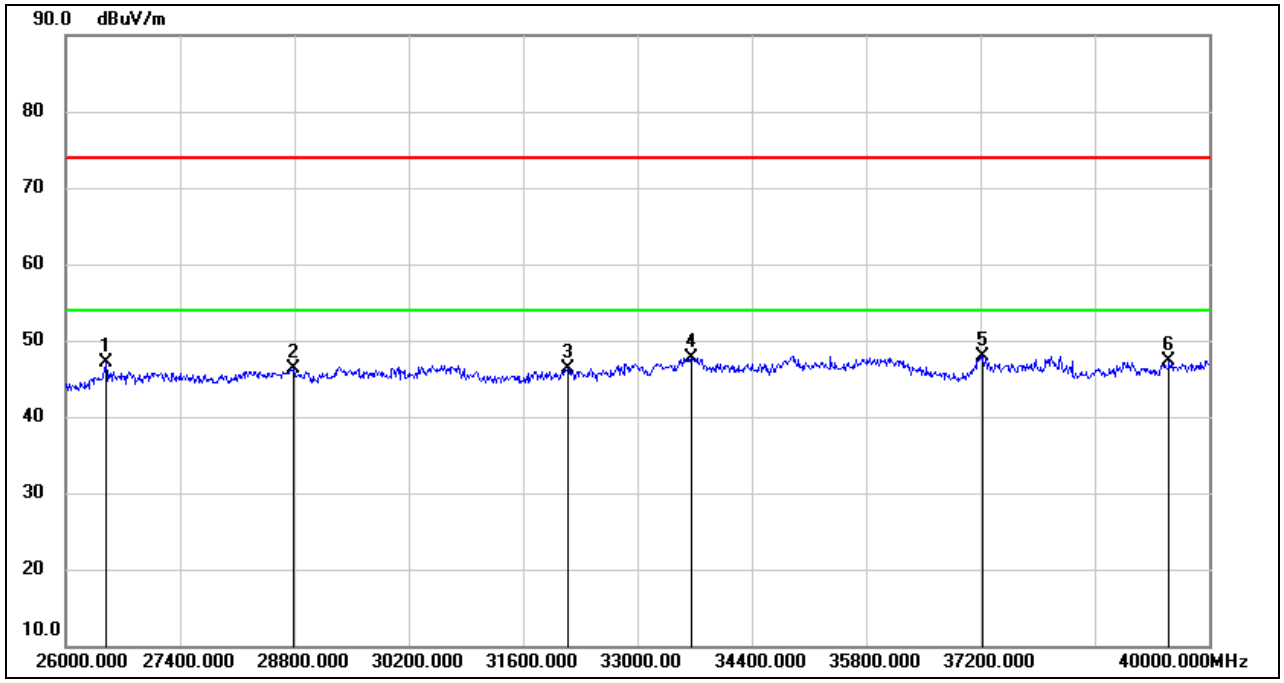
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.5. SPURIOUS EMISSIONS (26 GHz ~ 40 GHz)

8.5.1. 802.11n HT40 MODE

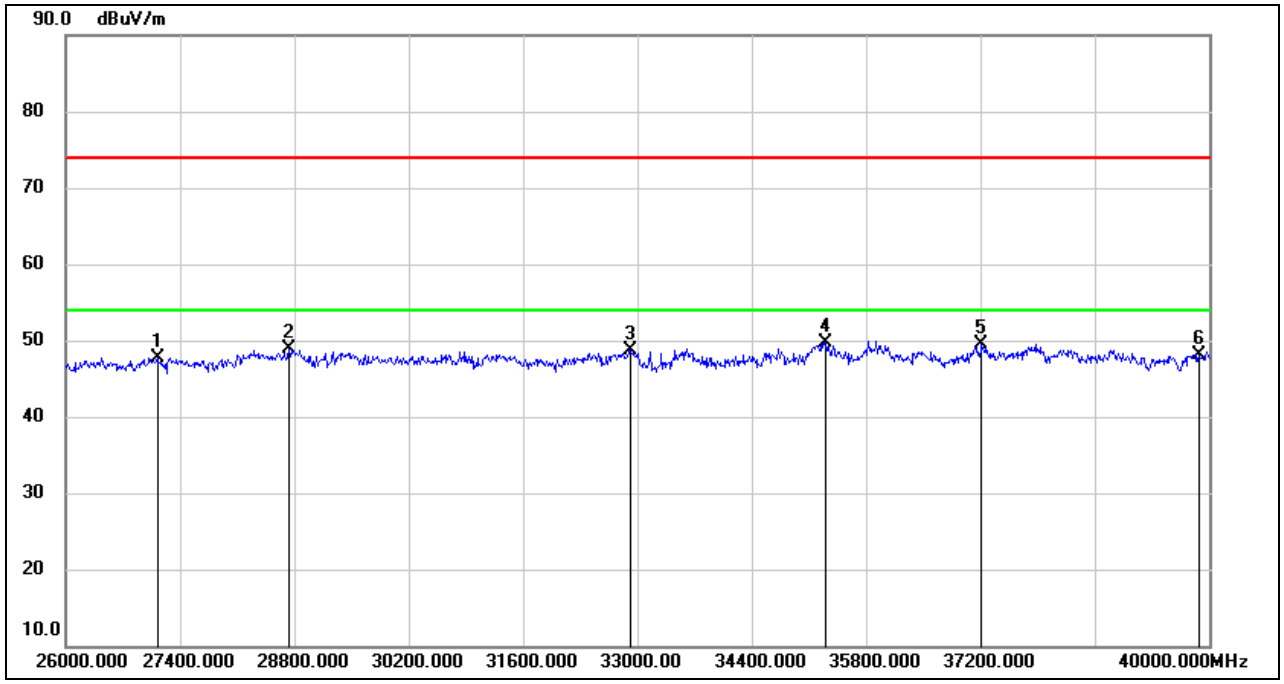
SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	26490.000	51.79	-4.74	47.05	74.00	-26.95	peak
2	28786.000	46.99	-0.64	46.35	74.00	-27.65	peak
3	32146.000	47.92	-1.58	46.34	74.00	-27.66	peak
4	33658.000	47.28	0.41	47.69	74.00	-26.31	peak
5	37228.000	44.73	3.14	47.87	74.00	-26.13	peak
6	39510.000	42.20	5.04	47.24	74.00	-26.76	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	27120.000	51.64	-3.99	47.65	74.00	-26.35	peak
2	28730.000	49.51	-0.69	48.82	74.00	-25.18	peak
3	32916.000	49.58	-0.86	48.72	74.00	-25.28	peak
4	35310.000	47.04	2.62	49.66	74.00	-24.34	peak
5	37214.000	46.30	3.15	49.45	74.00	-24.55	peak
6	39874.000	43.15	4.98	48.13	74.00	-25.87	peak

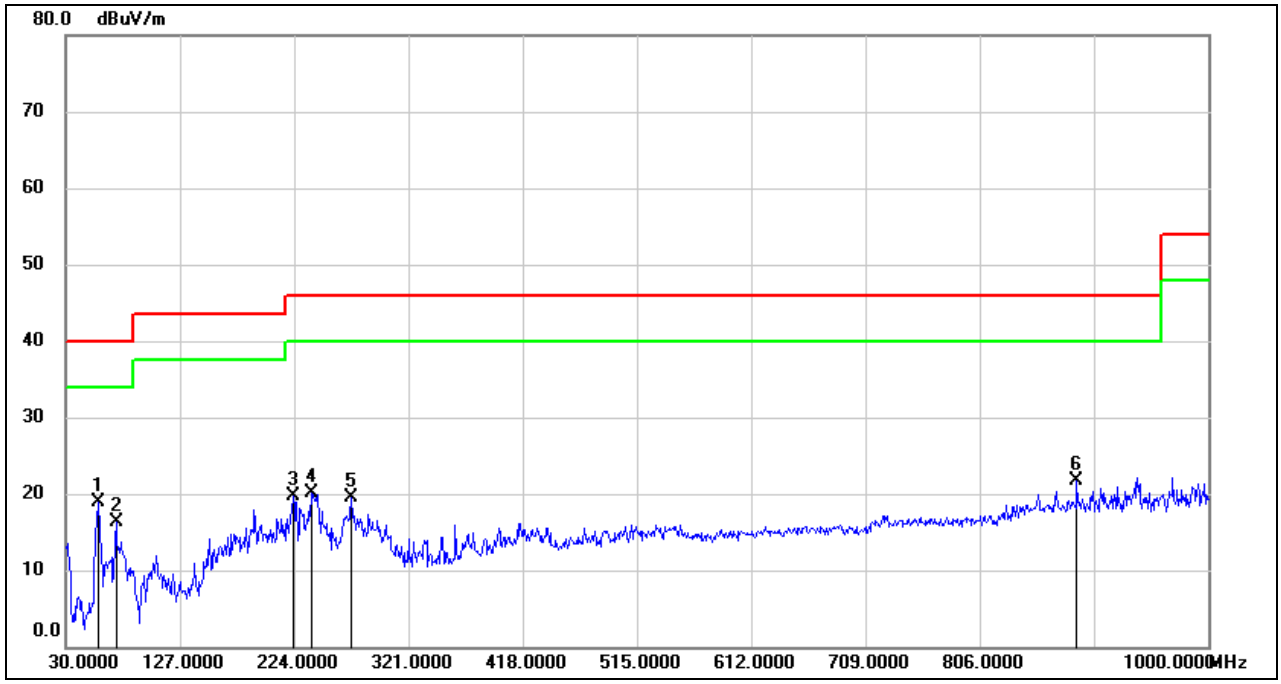
Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Peak: Peak detector.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.6. SPURIOUS EMISSIONS (30 MHz ~ 1 GHz)

8.6.1. 802.11n HT40 MODE

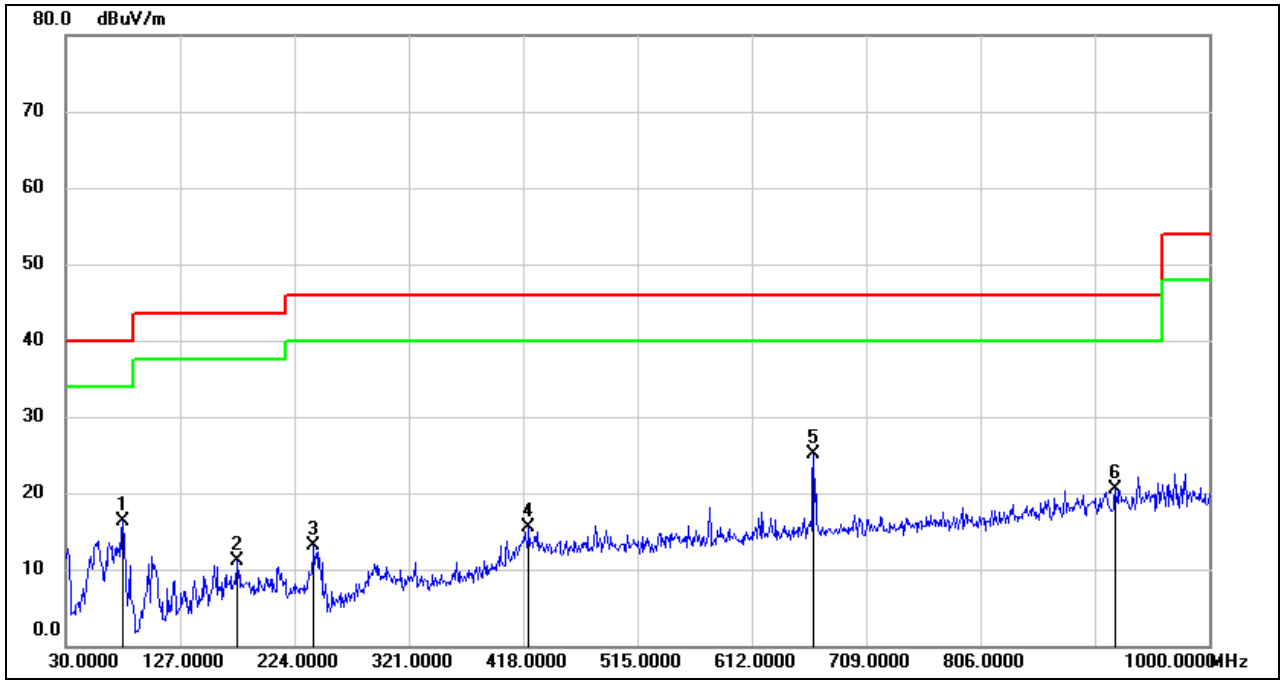
SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	58.1300	39.43	-20.55	18.88	40.00	-21.12	QP
2	72.6800	36.97	-20.76	16.21	40.00	-23.79	QP
3	223.0300	38.03	-18.33	19.70	46.00	-26.30	QP
4	238.5500	39.12	-19.10	20.02	46.00	-25.98	QP
5	272.5000	36.90	-17.48	19.42	46.00	-26.58	QP
6	888.4500	26.92	-5.29	21.63	46.00	-24.37	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	78.5000	37.57	-21.23	16.34	40.00	-23.66	QP
2	175.5000	28.22	-17.07	11.15	43.50	-32.35	QP
3	240.4900	32.33	-19.17	13.16	46.00	-32.84	QP
4	422.8500	28.35	-12.91	15.44	46.00	-30.56	QP
5	664.3800	33.82	-8.66	25.16	46.00	-20.84	QP
6	920.4600	25.30	-4.76	20.54	46.00	-25.46	QP

Note: 1. Result Level = Read Level + Correct Factor.
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

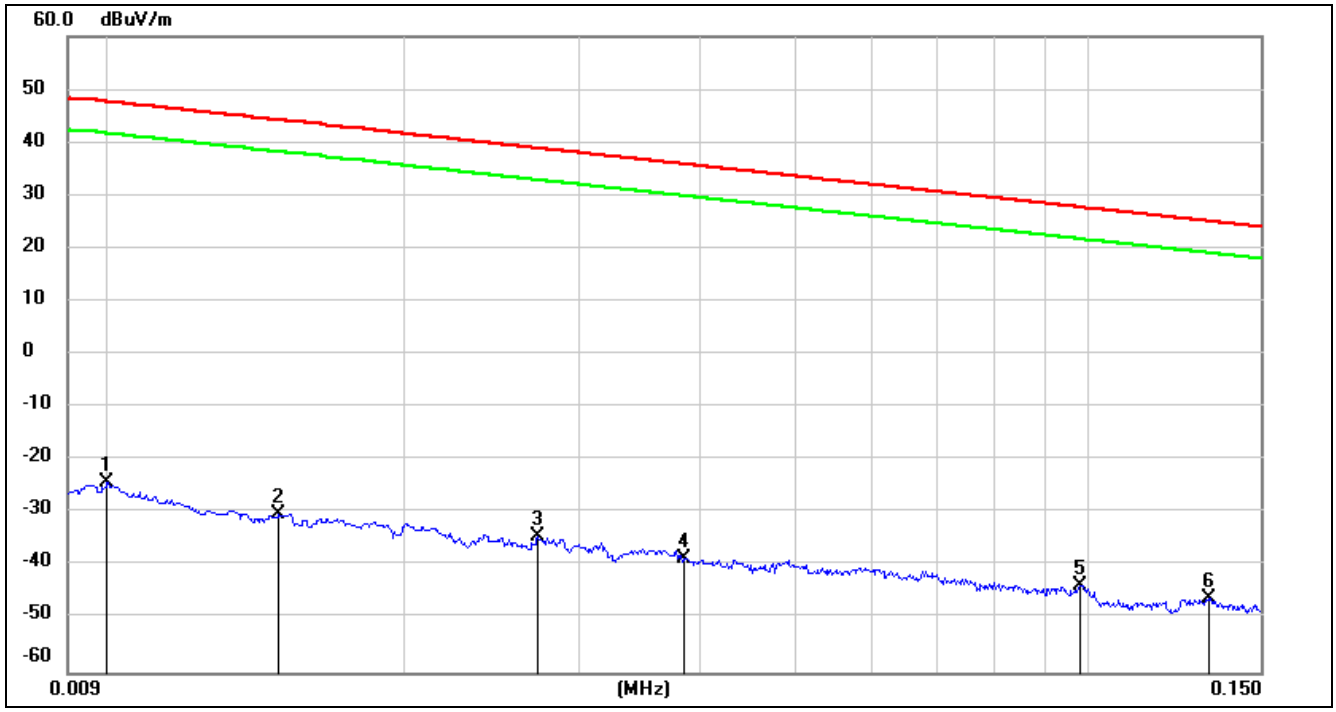
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.7. SPURIOUS EMISSIONS BELOW 30 MHz

8.7.1. 802.11n HT40 MODE

SPURIOUS EMISSIONS (UNII-2A BAND HIGH CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

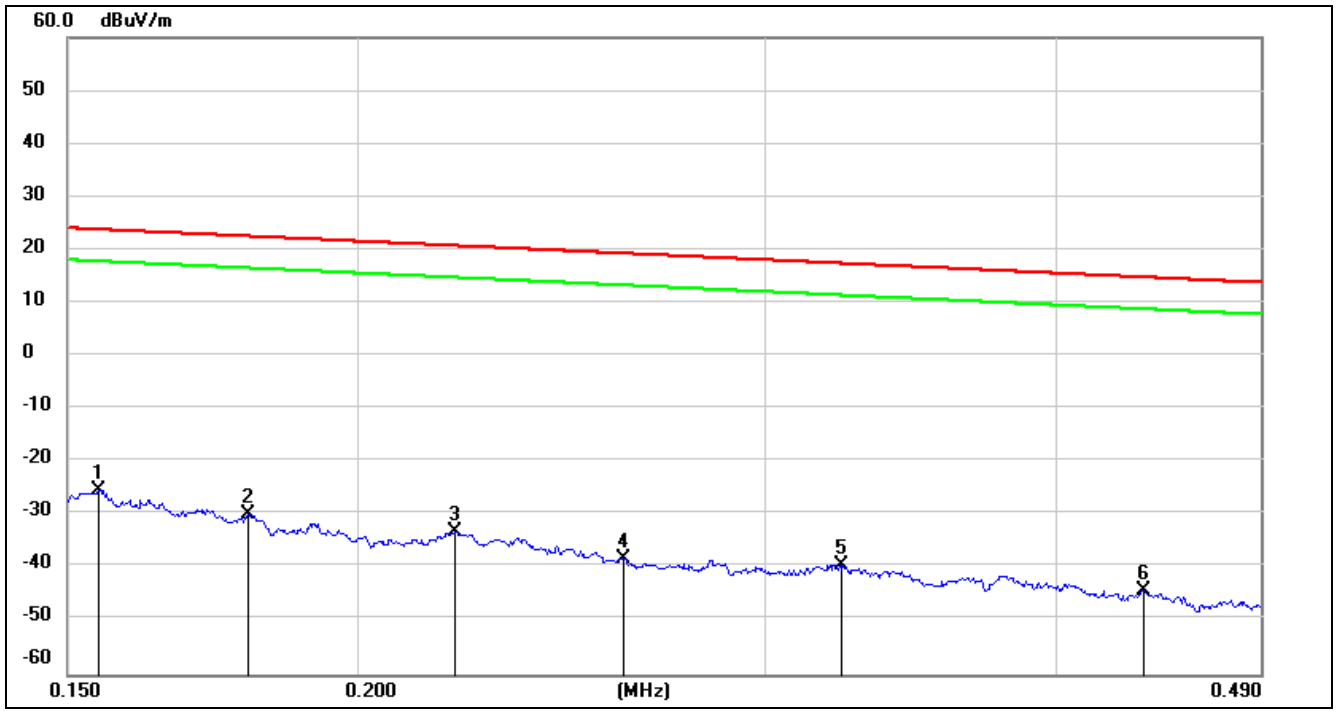
9 kHz~ 150 kHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.0100	77.22	-101.40	-24.18	47.6	-75.68	-3.90	-71.78	peak
2	0.0148	71.14	-101.37	-30.23	44.2	-81.73	-7.30	-74.43	peak
3	0.0273	66.99	-101.38	-34.39	38.88	-85.89	-12.62	-73.27	peak
4	0.0386	62.96	-101.43	-38.47	35.87	-89.97	-15.63	-74.34	peak
5	0.0981	58.27	-101.78	-43.51	27.77	-95.01	-23.73	-71.28	peak
6	0.1324	55.67	-101.69	-46.02	25.17	-97.52	-26.33	-71.19	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. dBuA/m = dBuV/m – 20log10(120π) = dBuV/m -51.5.

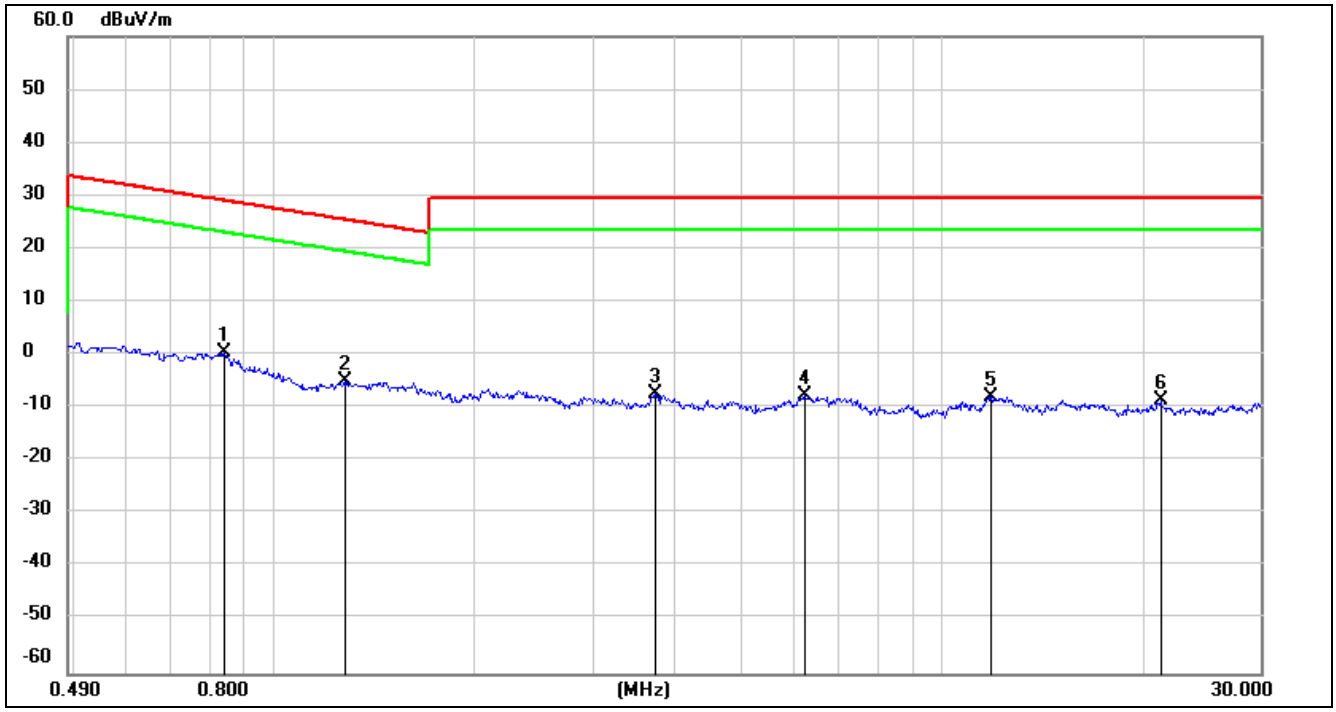
150 kHz ~ 490 kHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.1547	76.31	-101.65	-25.34	23.81	-76.84	-27.69	-49.15	peak
2	0.1794	71.77	-101.68	-29.91	22.53	-81.41	-28.97	-52.44	peak
3	0.2204	68.66	-101.75	-33.09	20.74	-84.59	-30.76	-53.83	peak
4	0.2605	63.64	-101.81	-38.17	19.28	-89.67	-32.22	-57.45	peak
5	0.3234	62.48	-101.88	-39.4	17.41	-90.90	-34.09	-56.81	peak
6	0.4364	57.86	-101.99	-44.13	14.8	-95.63	-36.70	-58.93	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. dBuA/m = dBuV/m – 20log10(120π) = dBuV/m -51.5.

490 kHz ~ 30 MHz



No.	Frequency	Reading	Correct	FCC Result	FCC Limit	ISED Result	ISED Limit	Margin	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dBuA/m)	(dBuA/m)	(dB)	
1	0.8400	62.71	-62.17	0.54	29.12	-50.96	-22.38	-28.58	peak
2	1.2721	57.24	-62.15	-4.91	25.52	-56.41	-25.98	-30.43	peak
3	3.7100	54.20	-61.41	-7.21	29.54	-58.71	-21.96	-36.75	peak
4	6.2445	53.63	-61.32	-7.69	29.54	-59.19	-21.96	-37.23	peak
5	11.8513	53.06	-60.88	-7.82	29.54	-59.32	-21.96	-37.36	peak
6	21.2942	52.15	-60.74	-8.59	29.54	-60.09	-21.96	-38.13	peak

Note: 1. Measurement = Reading Level + Correct Factor.
2. If Peak Result complies with AV and QP limit, AV and QP Result are deemed to comply with AV limit.
3. All 3 polarizations (Horizontal, Face-on and Face-off) of the loop antenna had been tested, but only the worst data recorded in the report.
4. dBuA/m = dBuV/m – 20log10(120π) = dBuV/m -51.5.

Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

9. AC POWER LINE CONDUCTED EMISSIONS

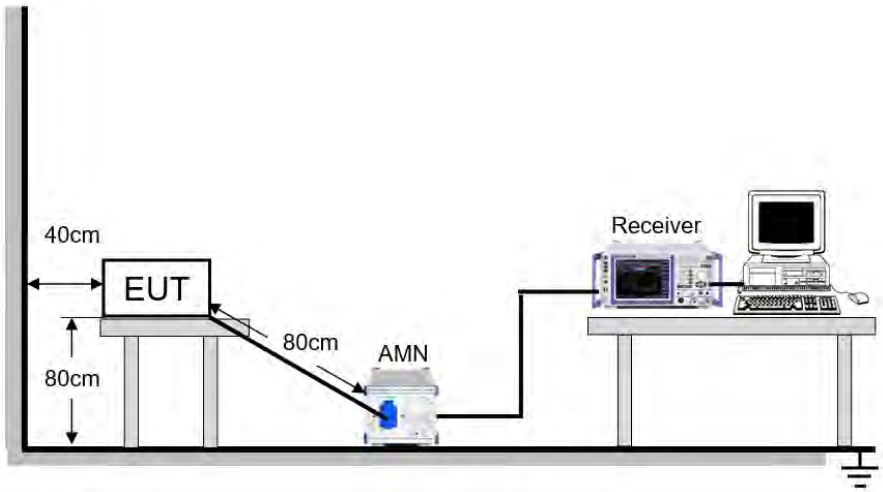
LIMITS

Please refer to CFR 47 FCC §15.207 (a) and ISED RSS-Gen Clause 8.8

FREQUENCY (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

TEST SETUP AND PROCEDURE

Refer to ANSI C63.10-2013 clause 6.2.



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10-2013.Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

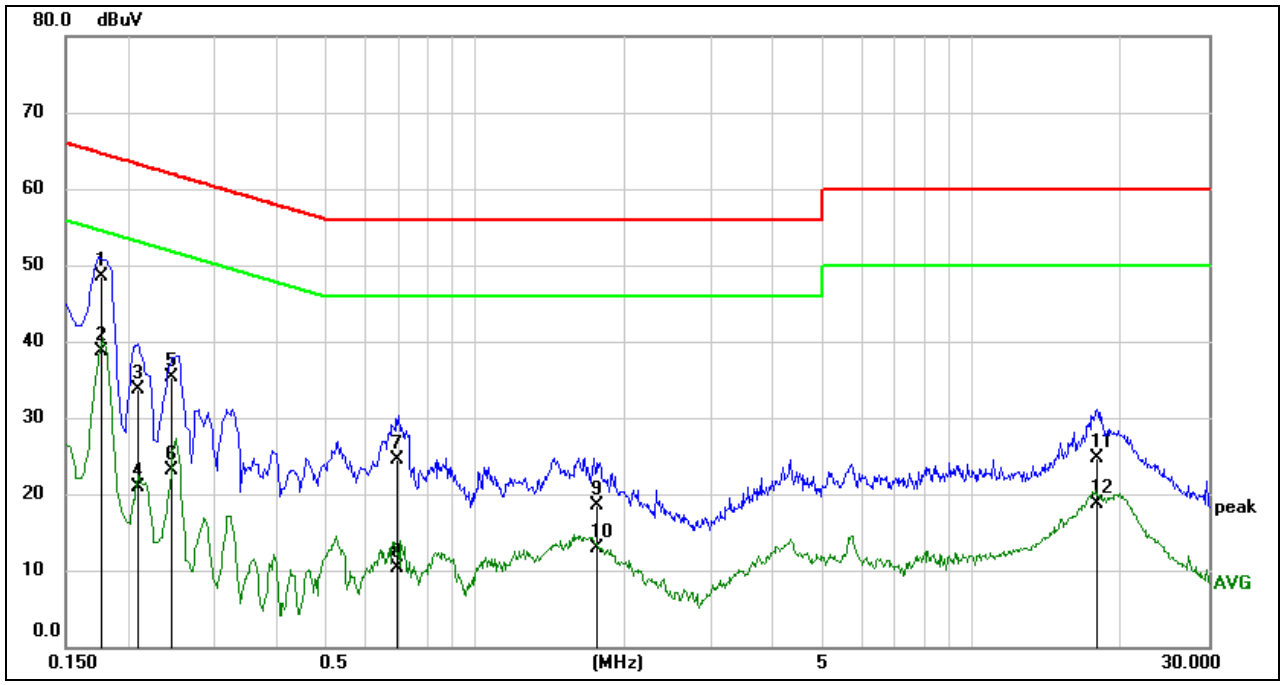
TEST ENVIRONMENT

Temperature	27.6 °C	Relative Humidity	64.8 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz

RESULTS

9.1.1. 802.11n HT40 MODE

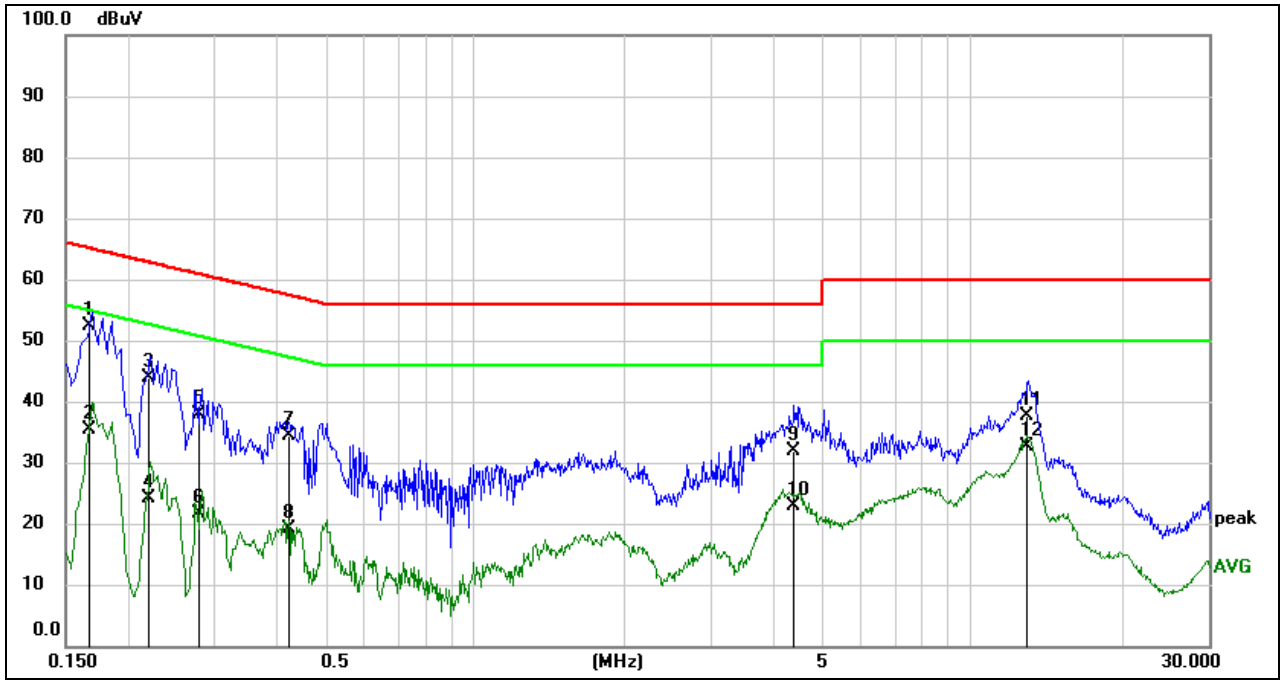
LINE L RESULTS (UNII-2A BAND HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1768	48.94	-0.50	48.44	64.63	-16.19	QP
2	0.1768	39.29	-0.50	38.79	54.63	-15.84	AVG
3	0.2101	34.13	-0.50	33.63	63.20	-29.57	QP
4	0.2101	21.37	-0.50	20.87	53.20	-32.33	AVG
5	0.2458	35.80	-0.50	35.30	61.90	-26.60	QP
6	0.2458	23.54	-0.50	23.04	51.90	-28.86	AVG
7	0.6980	24.87	-0.45	24.42	56.00	-31.58	QP
8	0.6980	10.78	-0.45	10.33	46.00	-35.67	AVG
9	1.7493	18.87	-0.40	18.47	56.00	-37.53	QP
10	1.7493	13.31	-0.40	12.91	46.00	-33.09	AVG
11	17.8107	25.64	-0.91	24.73	60.00	-35.27	QP
12	17.8107	19.57	-0.91	18.66	50.00	-31.34	AVG

Note: 1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

LINE N RESULTS (UNII-2A BAND HIGH CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1661	42.74	9.59	52.33	65.15	-12.82	QP
2	0.1661	25.79	9.59	35.38	55.15	-19.77	AVG
3	0.2188	34.21	9.59	43.80	62.86	-19.06	QP
4	0.2188	14.56	9.59	24.15	52.86	-28.71	AVG
5	0.2785	28.26	9.59	37.85	60.86	-23.01	QP
6	0.2785	11.99	9.59	21.58	50.86	-29.28	AVG
7	0.4204	24.68	9.60	34.28	57.44	-23.16	QP
8	0.4204	9.47	9.60	19.07	47.44	-28.37	AVG
9	4.3910	22.37	9.60	31.97	56.00	-24.03	QP
10	4.3910	13.31	9.60	22.91	46.00	-23.09	AVG
11	12.9407	28.01	9.66	37.67	60.00	-22.33	QP
12	12.9407	22.97	9.66	32.63	50.00	-17.37	AVG

Note: 1. Result = Reading + Correct Factor.
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 200 Hz (9 kHz ~ 150 kHz), 9 kHz (150 kHz ~ 30 MHz).
4. Step size: 80 Hz (0.009 MHz ~ 0.15 MHz), 4 kHz (0.15 MHz ~ 30 MHz), Scan time: auto.

Note: All the modes had been tested, but only the worst data was recorded in the report.

10. FREQUENCY STABILITY

LIMITS

The frequency of the carrier signal shall be maintained within band of operation.

TEST PROCEDURE

1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -10 °C ~ 70 °C (declared by customer).

2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

3. The primary supply voltage is varied from 85 % to 115 % of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

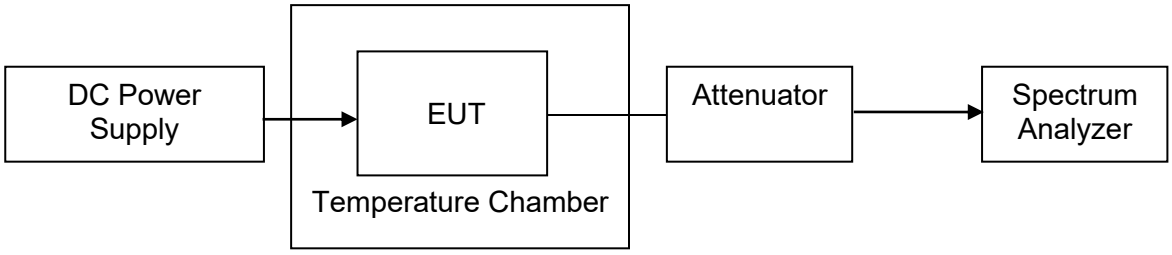
Connect the EUT to the spectrum analyser and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	10 kHz
VBW	≥3 × RBW
Span	Encompass the entire emissions bandwidth (EBW) of the signal
Trace	Max hold
Sweep time	Auto

4. While maintaining a constant temperature inside the environmental chamber, turn the EUT on and record the operating frequency at startup, and at 2 minutes, 5minutes, and 10 minutes after the EUT is energized.

5. Allow the trace to stabilize, find the peak value of the power envelope and record the frequency, then calculated the frequency drift.

TEST SETUP



TEST ENVIRONMENT

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	20 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T_N (Normal Temperature): 25.1 °C	T_L (Low Temperature): -10 °C
		T_H (High Temperature): 70 °C
Supply Voltage	V_N (Normal Voltage): DC 3.3 V	V_L (Low Voltage): DC 2.97 V
		V_H (High Voltage): DC 3.63 V

RESULTS

Please refer to Appendix H.

11. DYNAMIC FREQUENCY SELECTION

APPLICABILITY OF DFS REQUIREMENTS

A U-NII network will employ a DFS function to detect signals from radar systems and to avoid co-channel operation with these systems. This applies to the 5250-5350 MHz and/or 5470-5725 MHz bands.
Within the context of the operation of the DFS function, a U-NII device will operate in either Master Mode or Client Mode. U-NII devices operating in Client Mode can only operate in a network controlled by a U-NII device operating in Master Mode.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	☐ Master	☒ Client Without Radar Detection	☐ Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode	
	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
DFS Detection Threshold	Yes	Not required
Channel Closing Transmission Time	Yes	Yes
Channel Move Time	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required

Additional requirements for devices with multiple bandwidth modes	☐ Master Device or Client with Radar Detection	☒ Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note: Frequencies selected for statistical performance check should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

LIMITS

(1) DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices With Radar Detection

Maximum Transmit Power	Value (See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.	

(2) DFS Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-NII 99% transmission power bandwidth. See Note 3.
Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required facilitating a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions. Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.	

PARAMETERS OF RADAR TEST WAVEFORMS

This section provides the parameters for required test waveforms, minimum percentage of successful detections, and the minimum number of trials that must be used for determining DFS conformance. Step intervals of 0.1 microsecond for Pulse Width, 1 microsecond for PRI, 1 MHz for chirp width and 1 for the number of pulses will be utilized for the random determination of specific test waveforms.

Table 5 Short Pulse Radar Test Waveforms

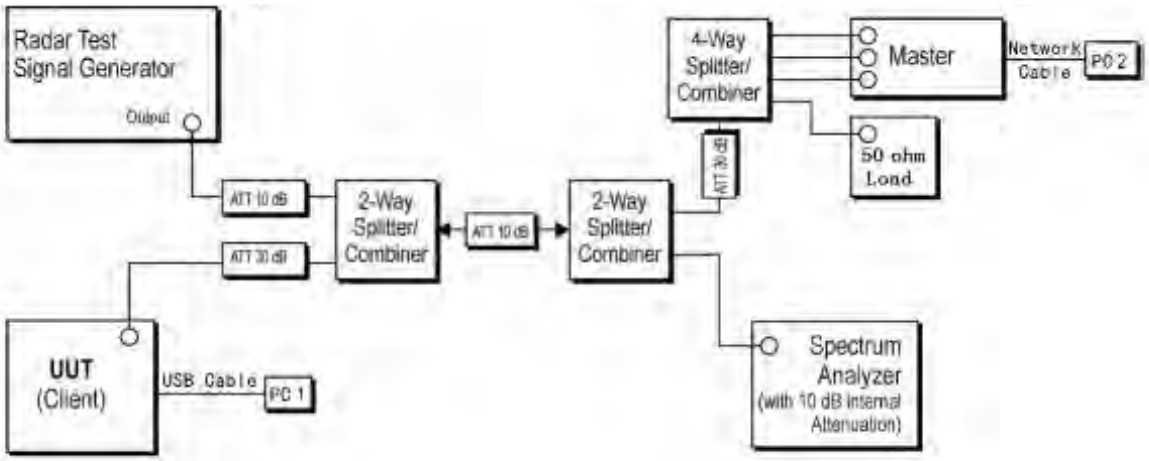
Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A	Roundup $\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot 10^6}{PRI_{\mu sec}}\right)\right\}$	60%	30
		Test B			
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.
Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a
Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms. If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. Test aggregate is average of the percentage of successful detections of short pulse radar types 1-4.

TEST SETUP

Setup for Client with injection at the Master



TEST ENVIRONMENT

Temperature	26.2 °C	Relative Humidity	55.8 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 3.3 V

RESULTS

Please refer to Appendix E & F & G.

12. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)
The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Complies

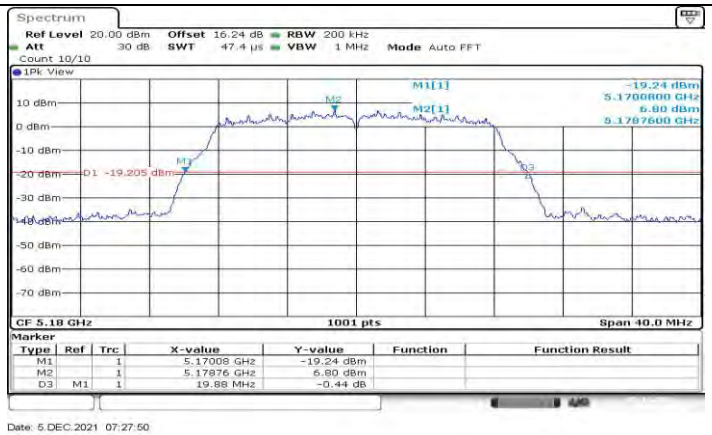
12.1. Appendix A1: Emission Bandwidth

12.1.1. Test Result

Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	19.880	5170.080	5189.960	PASS
	Ant2	5180	19.880	5170.120	5190.000	PASS
	Ant1	5200	19.960	5190.000	5209.960	PASS
	Ant2	5200	19.840	5190.080	5209.920	PASS
	Ant1	5240	19.800	5230.120	5249.920	PASS
	Ant2	5240	20.000	5229.960	5249.960	PASS
	Ant1	5260	19.960	5250.000	5269.960	PASS
	Ant2	5260	20.040	5250.040	5270.080	PASS
	Ant1	5280	19.960	5270.120	5290.080	PASS
	Ant2	5280	20.400	5269.800	5290.200	PASS
	Ant1	5320	19.800	5310.120	5329.920	PASS
	Ant2	5320	20.080	5309.960	5330.040	PASS
	Ant1	5500	19.840	5490.080	5509.920	PASS
	Ant2	5500	19.800	5490.080	5509.880	PASS
	Ant1	5580	19.840	5570.080	5589.920	PASS
	Ant2	5580	19.800	5570.080	5589.880	PASS
	Ant1	5700	19.800	5690.120	5709.920	PASS
	Ant2	5700	19.920	5690.120	5710.040	PASS
	Ant1	5720	19.800	5710.160	5729.960	PASS
	Ant2	5720	20.120	5710.000	5730.120	PASS
	Ant1	5720_UNII-2C	14.84	5710.160	5725	PASS
	Ant2	5720_UNII-2C	15	5710.000	5725	PASS
	Ant1	5720_UNII-3	4.96	5725	5729.960	PASS
	Ant2	5720_UNII-3	5.12	5725	5730.120	PASS
	Ant1	5745	19.920	5734.960	5754.880	PASS
	Ant2	5745	20.240	5734.720	5754.960	PASS
	Ant1	5785	19.960	5775.040	5795.000	PASS
	Ant2	5785	20.040	5775.080	5795.120	PASS
	Ant1	5825	19.840	5815.040	5834.880	PASS
	Ant2	5825	20.120	5815.040	5835.160	PASS
11N20MIMO	Ant1	5180	20.240	5169.880	5190.120	PASS
	Ant2	5180	20.120	5169.840	5189.960	PASS
	Ant1	5200	20.160	5189.960	5210.120	PASS
	Ant2	5200	20.120	5189.920	5210.040	PASS
	Ant1	5240	19.960	5229.960	5249.920	PASS
	Ant2	5240	20.000	5230.040	5250.040	PASS
	Ant1	5260	20.080	5250.000	5270.080	PASS
	Ant2	5260	20.280	5249.840	5270.120	PASS
	Ant1	5280	20.040	5269.960	5290.000	PASS
	Ant2	5280	20.360	5269.800	5290.160	PASS
	Ant1	5320	20.120	5309.960	5330.080	PASS
	Ant2	5320	20.240	5309.840	5330.080	PASS
	Ant1	5500	20.040	5489.960	5510.000	PASS
	Ant2	5500	20.160	5489.920	5510.080	PASS
	Ant1	5580	19.960	5569.960	5589.920	PASS
	Ant2	5580	20.240	5569.800	5590.040	PASS
	Ant1	5700	20.040	5689.960	5710.000	PASS
	Ant2	5700	20.160	5689.840	5710.000	PASS
	Ant1	5720	20.120	5709.880	5730.000	PASS
	Ant2	5720	20.240	5709.840	5730.080	PASS
	Ant1	5720_UNII-2C	15.12	5709.880	5725	PASS
	Ant2	5720_UNII-2C	15.16	5709.840	5725	PASS
	Ant1	5720_UNII-3	5	5725	5730.000	PASS
	Ant2	5720_UNII-3	5.08	5725	5730.080	PASS
	Ant1	5745	20.040	5734.960	5755.000	PASS

	Ant2	5745	20.240	5734.880	5755.120	PASS
	Ant1	5785	20.160	5774.920	5795.080	PASS
	Ant2	5785	20.160	5774.880	5795.040	PASS
	Ant1	5825	20.000	5814.960	5834.960	PASS
	Ant2	5825	20.200	5814.880	5835.080	PASS
11N40MIMO	Ant1	5190	40.960	5169.680	5210.640	PASS
	Ant2	5190	40.560	5169.760	5210.320	PASS
	Ant1	5230	41.520	5209.200	5250.720	PASS
	Ant2	5230	40.480	5209.760	5250.240	PASS
	Ant1	5270	40.880	5249.600	5290.480	PASS
	Ant2	5270	40.240	5249.920	5290.160	PASS
	Ant1	5310	40.720	5289.680	5330.400	PASS
	Ant2	5310	40.240	5289.840	5330.080	PASS
	Ant1	5510	41.200	5489.440	5530.640	PASS
	Ant2	5510	40.560	5489.840	5530.400	PASS
	Ant1	5550	41.200	5529.360	5570.560	PASS
	Ant2	5550	40.400	5529.840	5570.240	PASS
	Ant1	5670	41.200	5649.520	5690.720	PASS
	Ant2	5670	41.280	5649.520	5690.800	PASS
	Ant1	5710	40.960	5689.520	5730.480	PASS
	Ant2	5710	40.320	5689.760	5730.080	PASS
	Ant1	5710_UNII-2C	35.48	5689.520	5725	PASS
	Ant2	5710_UNII-2C	35.24	5689.760	5725	PASS
	Ant1	5710_UNII-3	5.48	5725	5730.480	PASS
	Ant2	5710_UNII-3	5.08	5725	5730.080	PASS
	Ant1	5755	41.360	5734.280	5775.640	PASS
	Ant2	5755	40.400	5734.840	5775.240	PASS
	Ant1	5795	41.440	5774.360	5815.800	PASS
	Ant2	5795	40.560	5774.840	5815.400	PASS
11AC80MIMO	Ant1	5210	81.920	5169.200	5251.120	PASS
	Ant2	5210	80.800	5169.520	5250.320	PASS
	Ant1	5290	82.080	5249.200	5331.280	PASS
	Ant2	5290	80.800	5249.680	5330.480	PASS
	Ant1	5530	81.760	5489.200	5570.960	PASS
	Ant2	5530	80.960	5489.520	5570.480	PASS
	Ant1	5610	82.080	5569.040	5651.120	PASS
	Ant2	5610	80.640	5569.680	5650.320	PASS
	Ant1	5690	81.920	5649.200	5731.120	PASS
	Ant2	5690	81.120	5649.360	5730.480	PASS
	Ant1	5690_UNII-2C	75.8	5649.200	5725	PASS
	Ant2	5690_UNII-2C	75.64	5649.360	5725	PASS
	Ant1	5690_UNII-3	6.12	5725	5731.120	PASS
	Ant2	5690_UNII-3	5.48	5725	5730.480	PASS
	Ant1	5775	82.240	5734.040	5816.280	PASS
	Ant2	5775	81.280	5734.360	5815.640	PASS

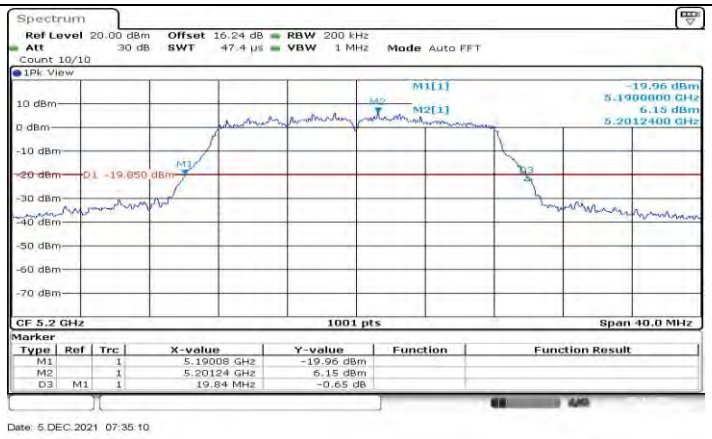
12.1.2. Test Graphs



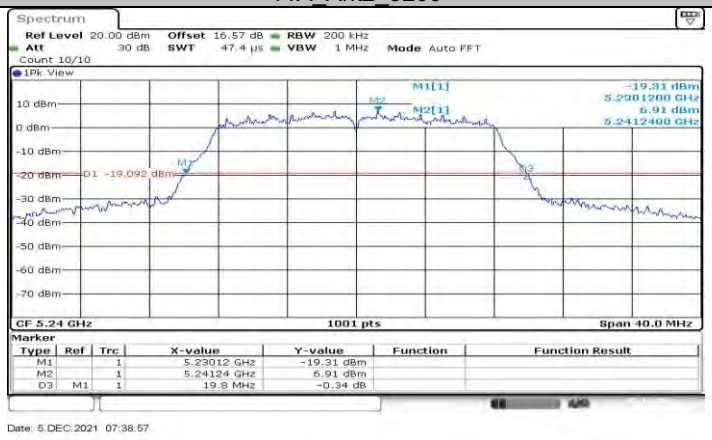
11A_Ant1_5180

11A_Ant2_5180

11A_Ant1_5200



11A_Ant2_5200



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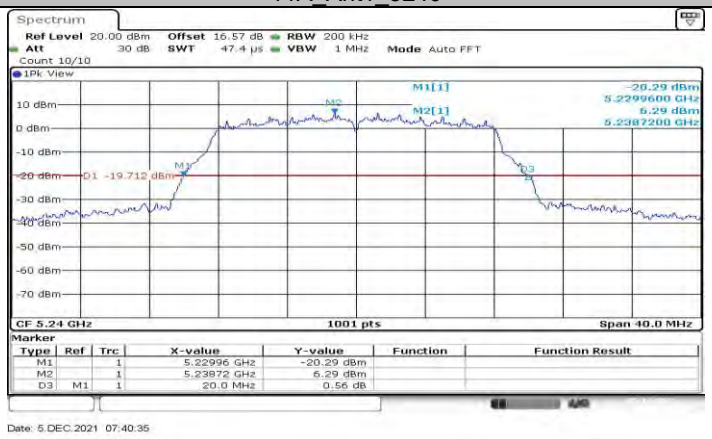
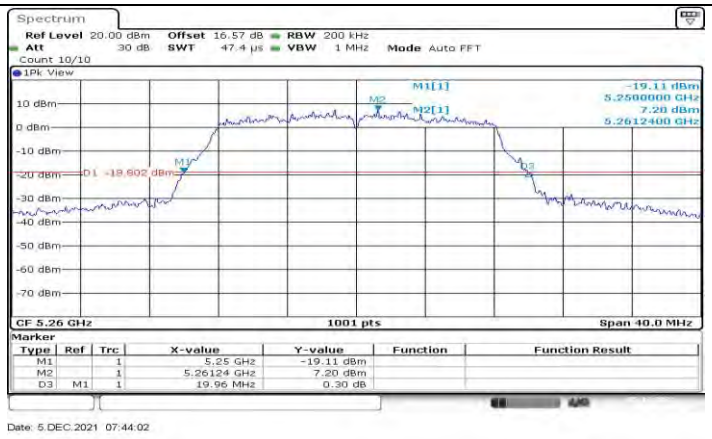
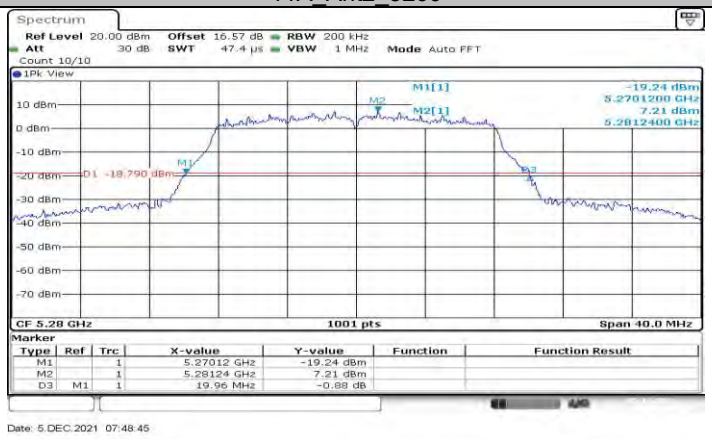


11A_Ant2_5240

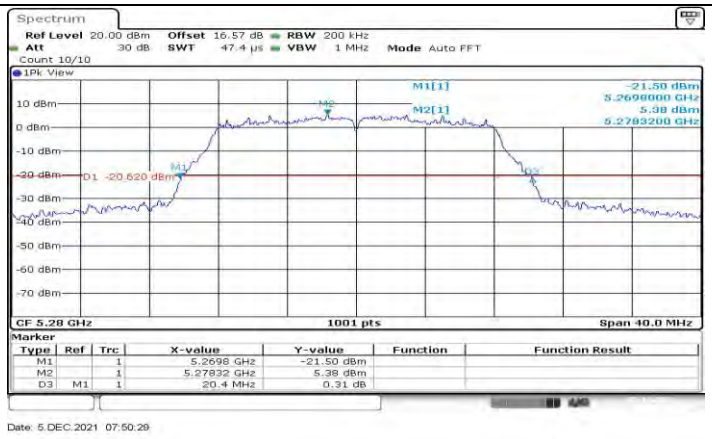


11A_Ant1_5260

11A_Ant2_5260



11A_Ant1_5280



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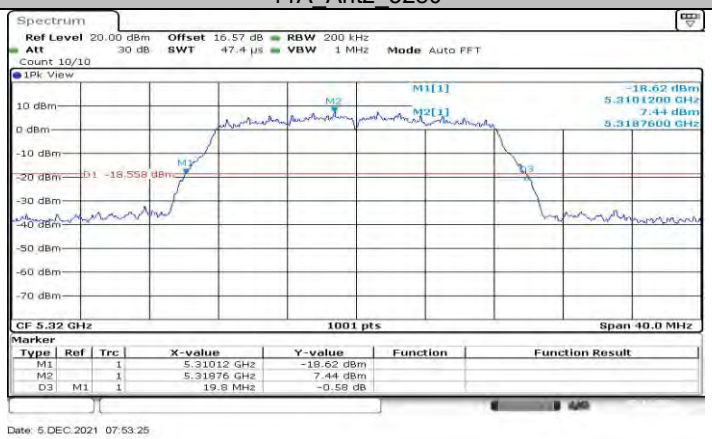

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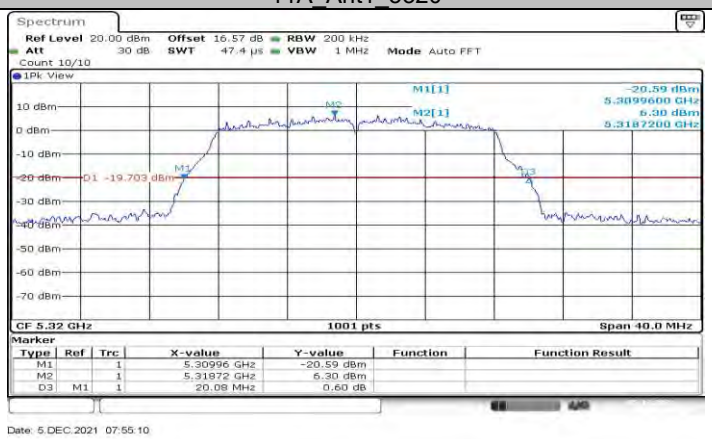
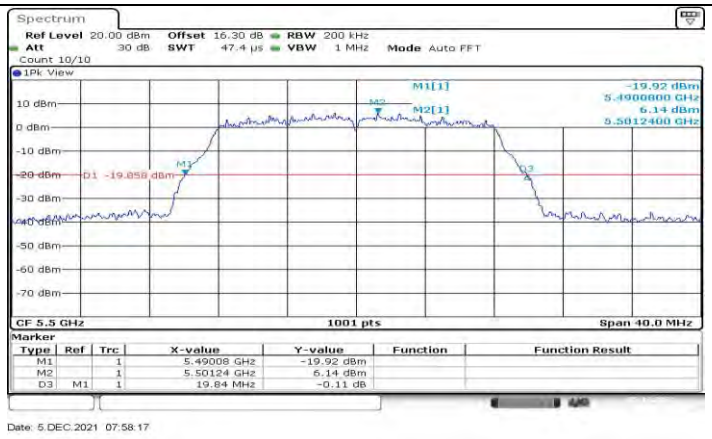


11A_Ant2_5320



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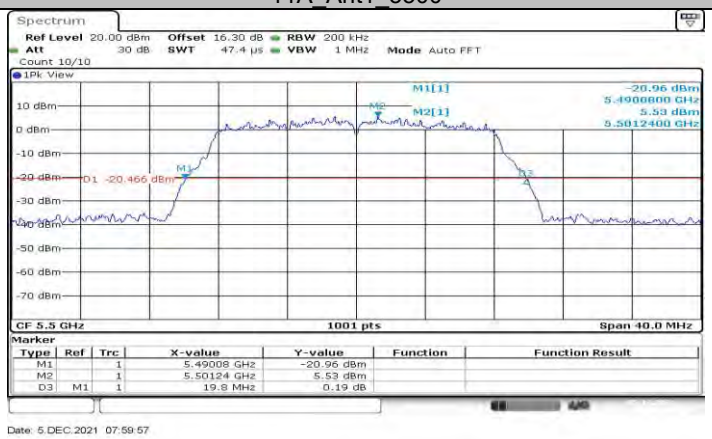

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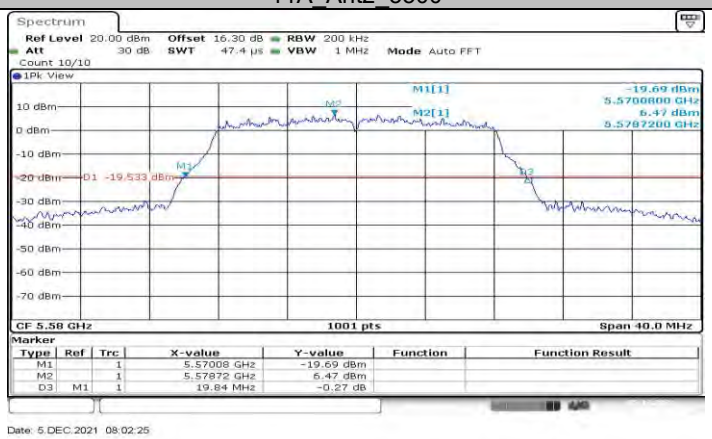

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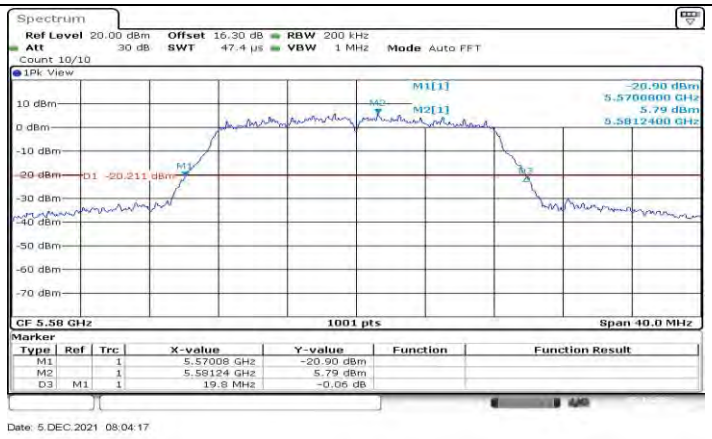
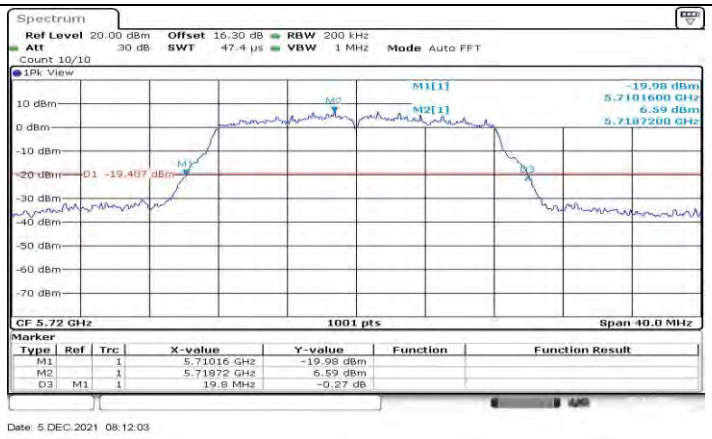


11A_Ant2_5580

11A_Ant1_5700

11A_Ant2_5700



11A_Ant1_5720

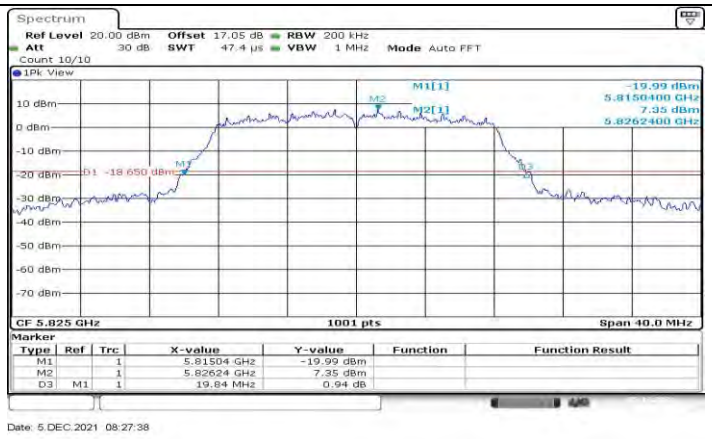
11A_Ant2_5720

11A_Ant1_5745

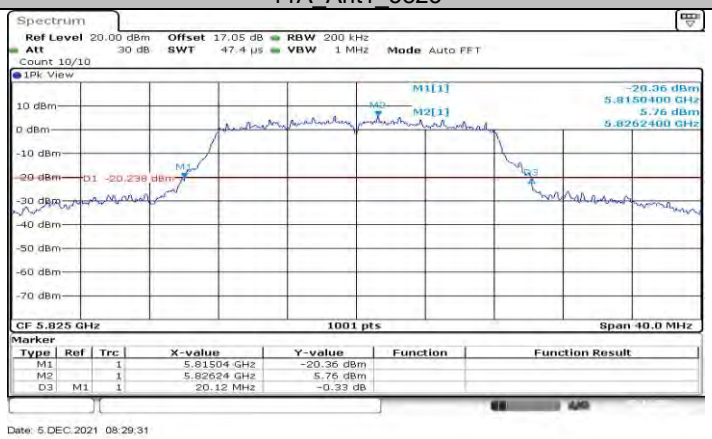
11A_Ant2_5745

11A_Ant1_5785

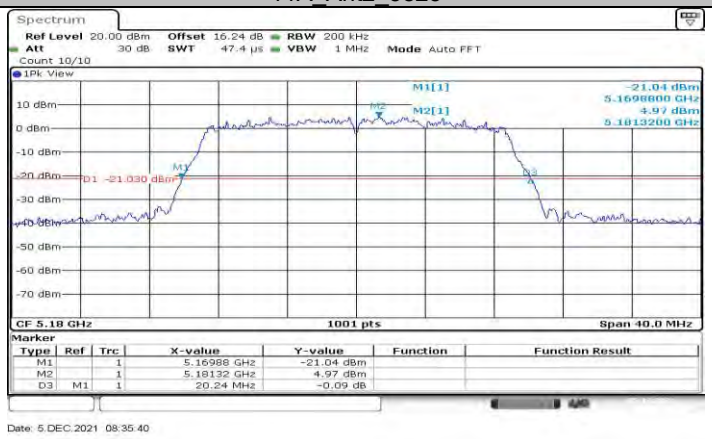
11A_Ant2_5785



11A_Ant1_5825



11A_Ant2_5825



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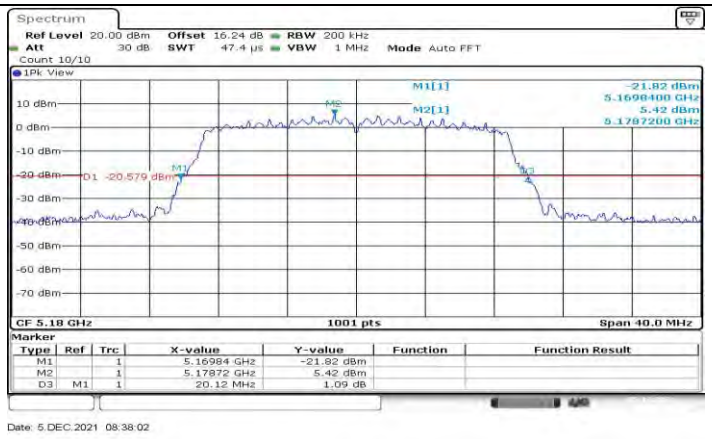
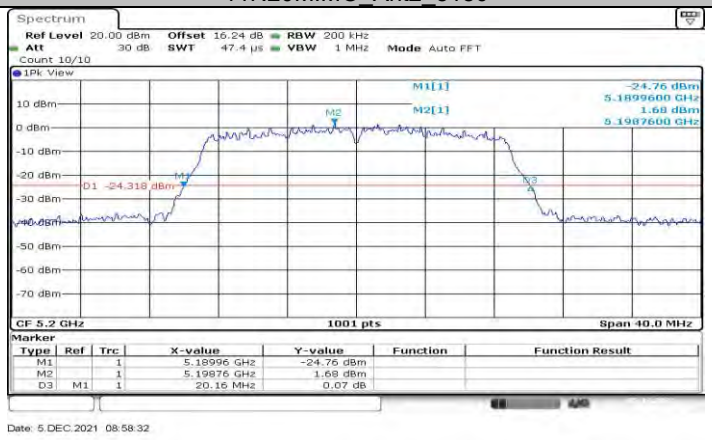


11N20MIMO_Ant2_5180



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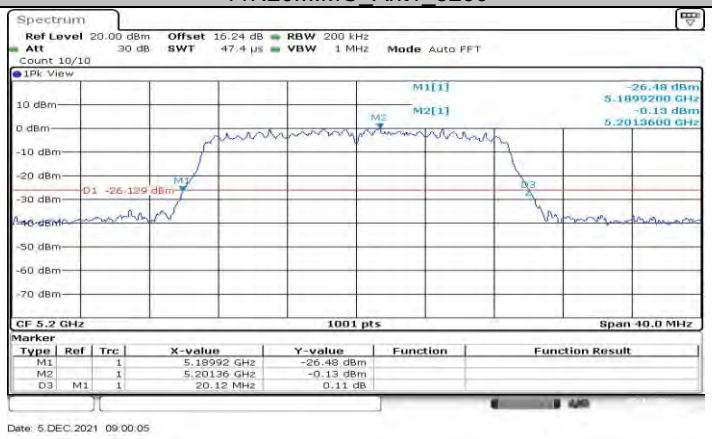

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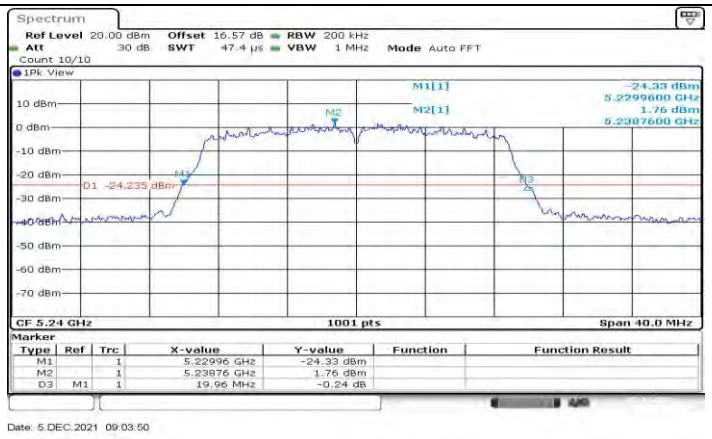

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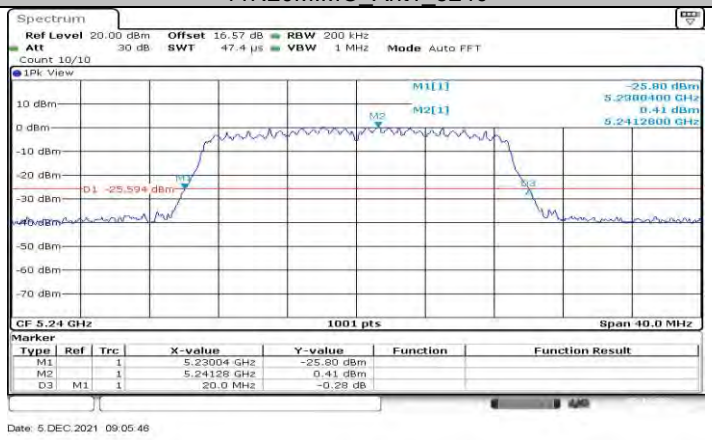
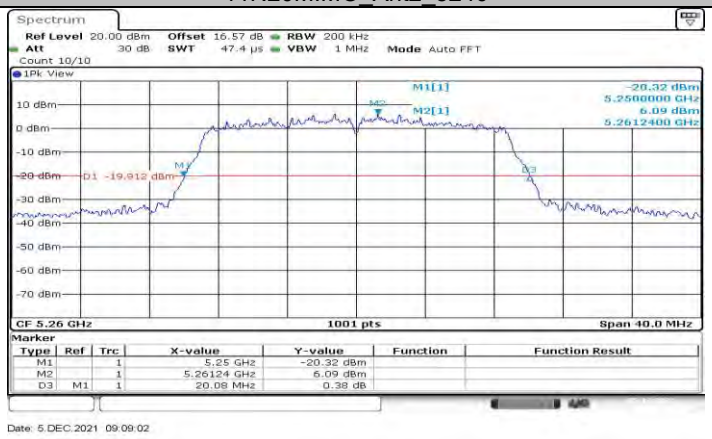


11N20MIMO_Ant2_5240



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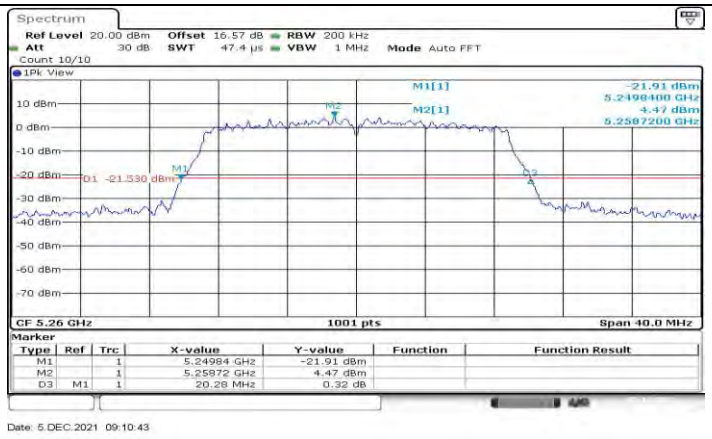

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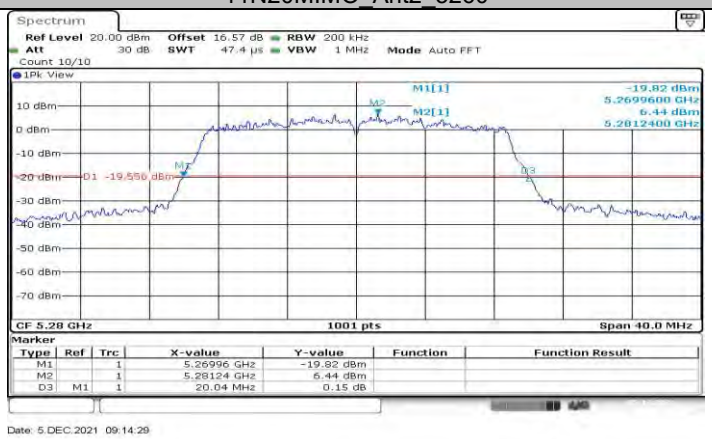

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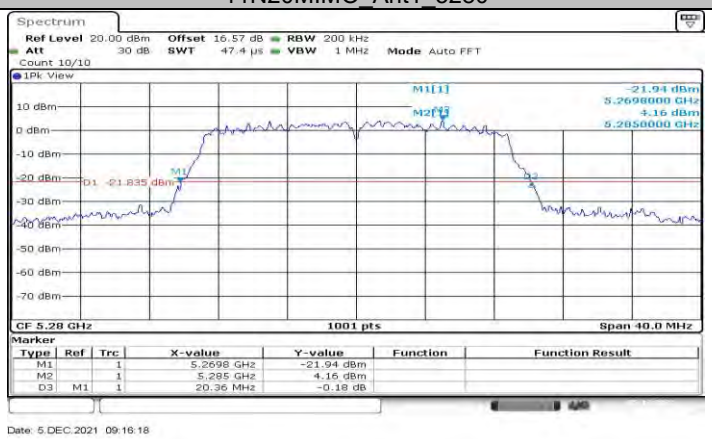

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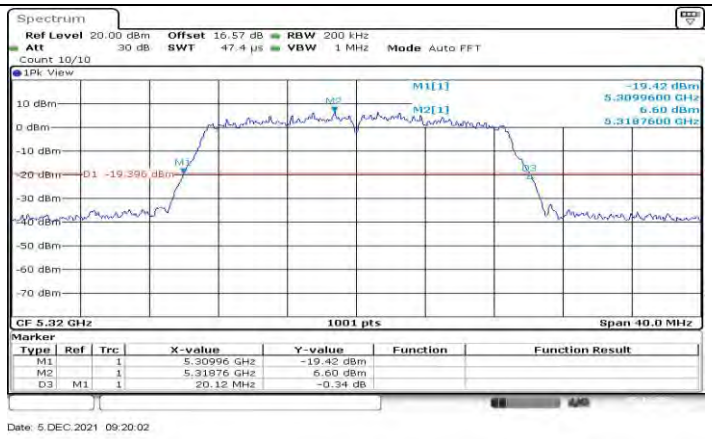

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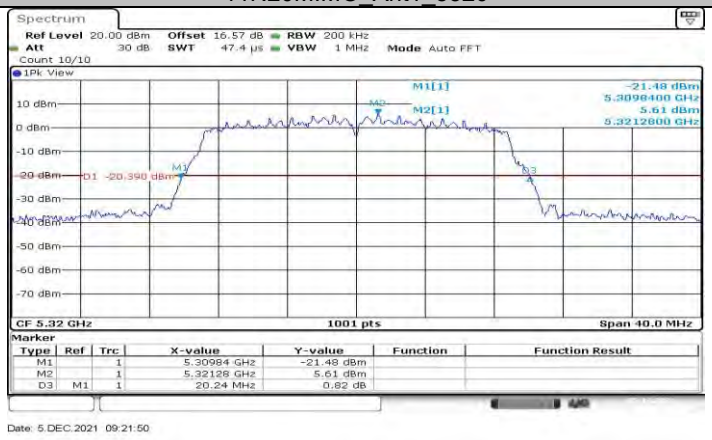

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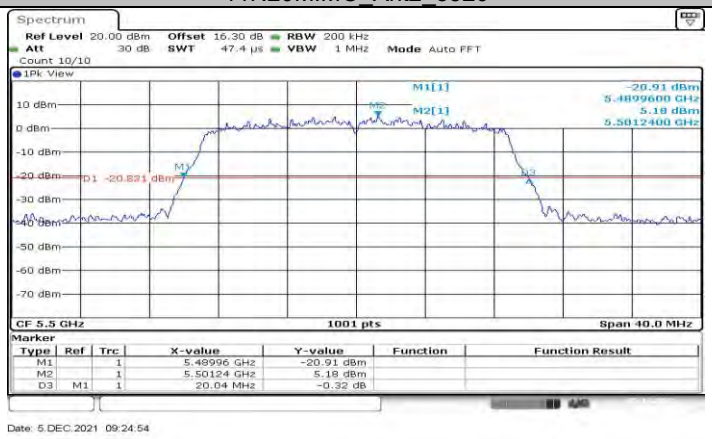

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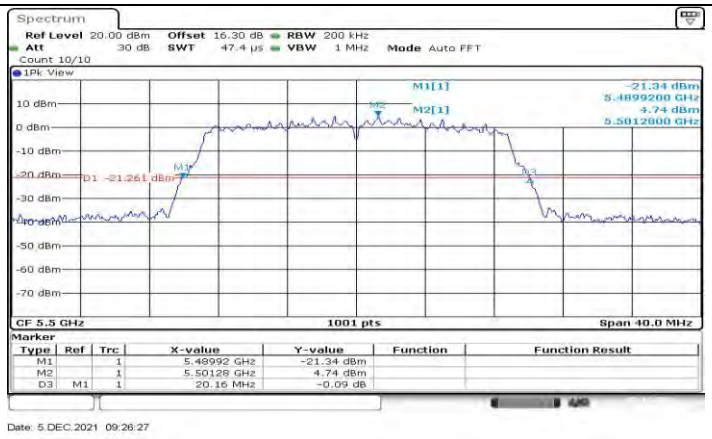

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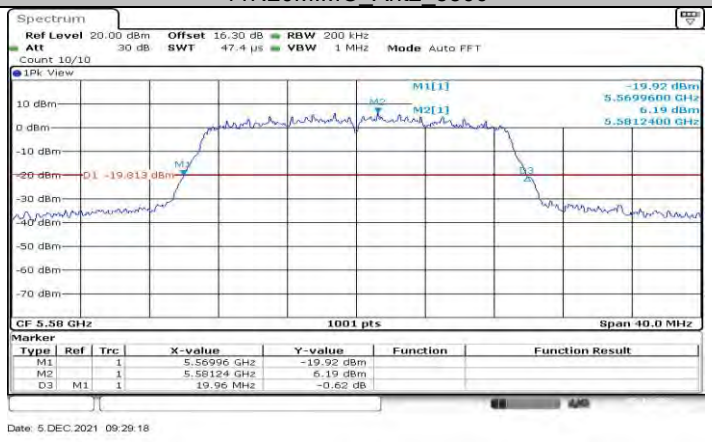

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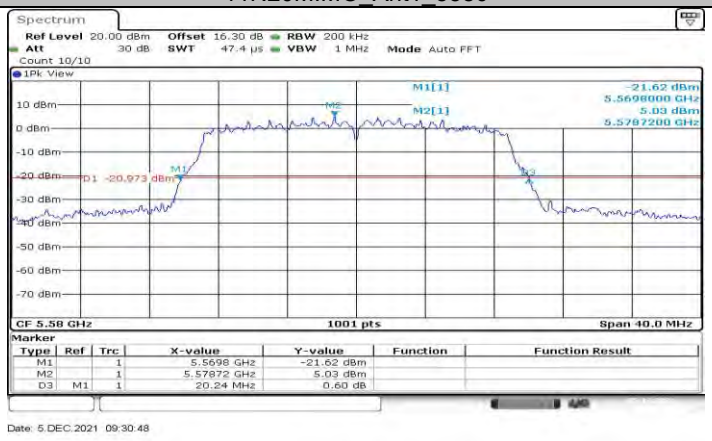

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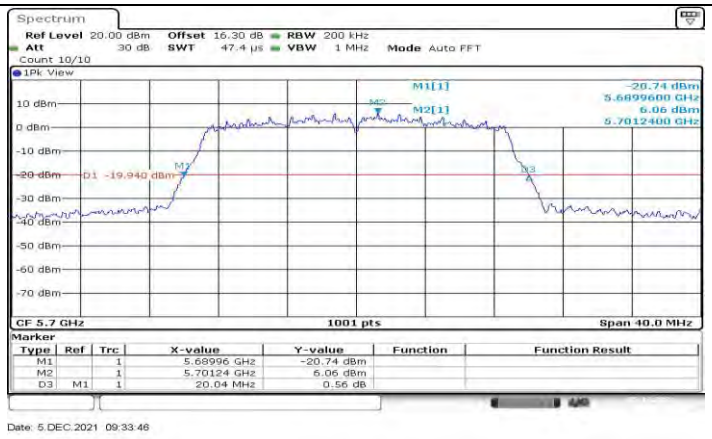

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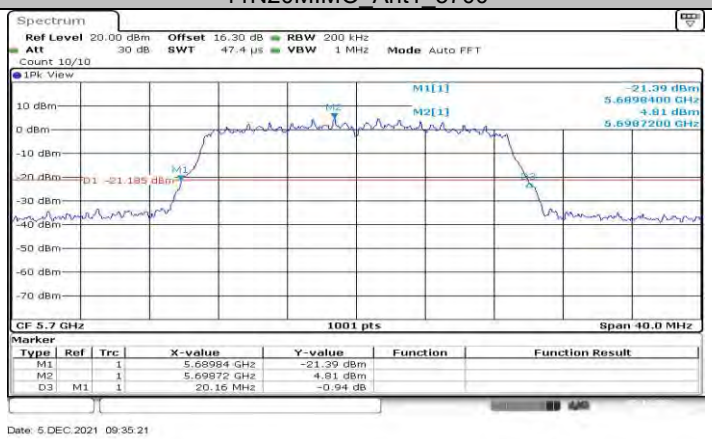

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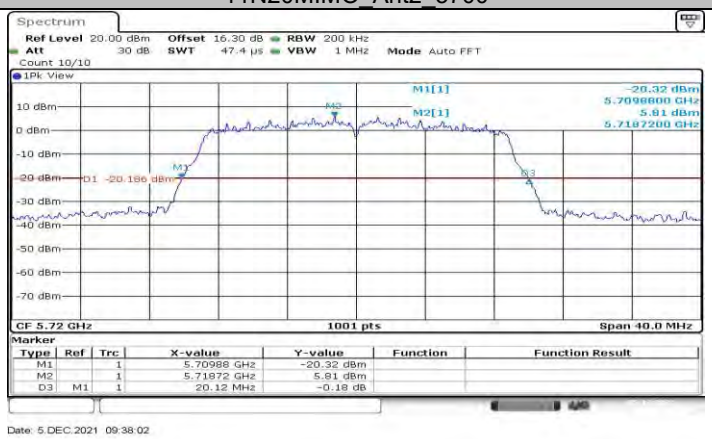
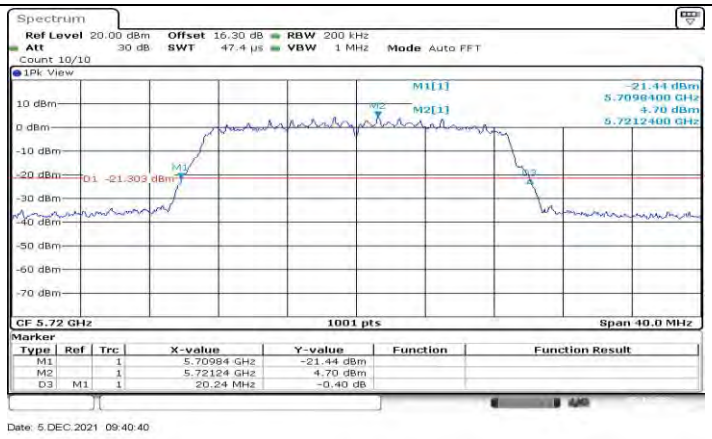
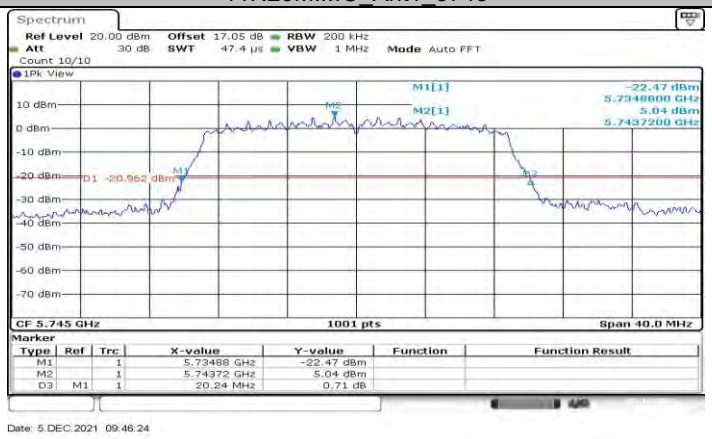


11N20MIMO_Ant1_5720



11N20MIMO_Ant2_5720

11N20MIMO_Ant1_5745



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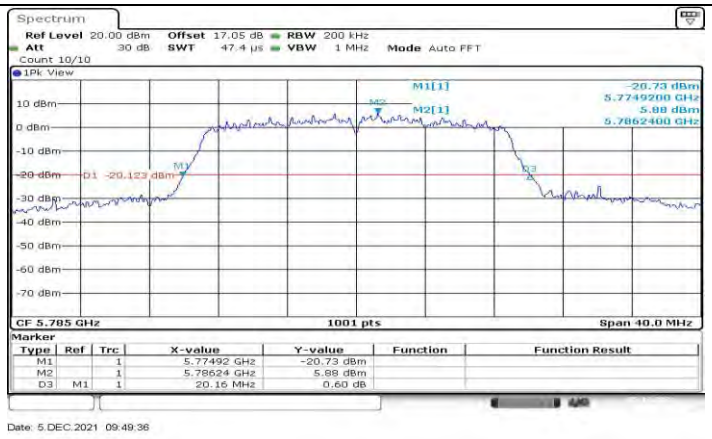

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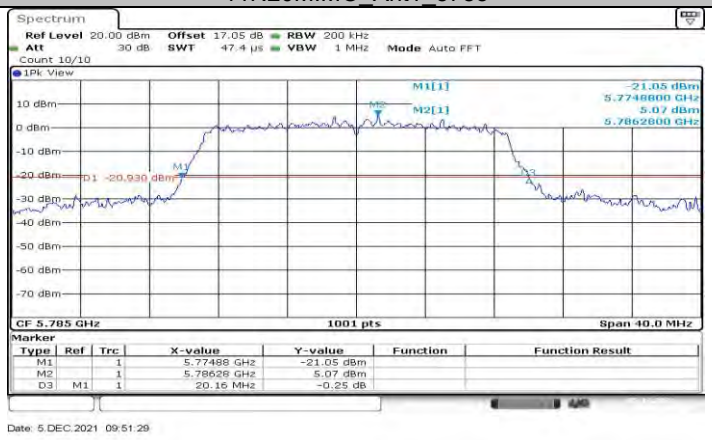

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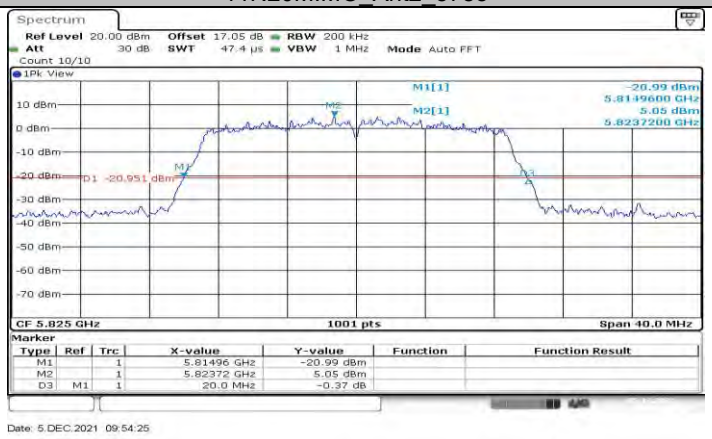
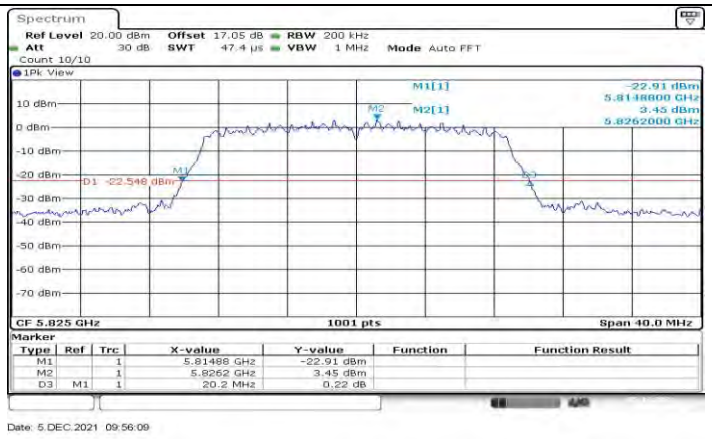
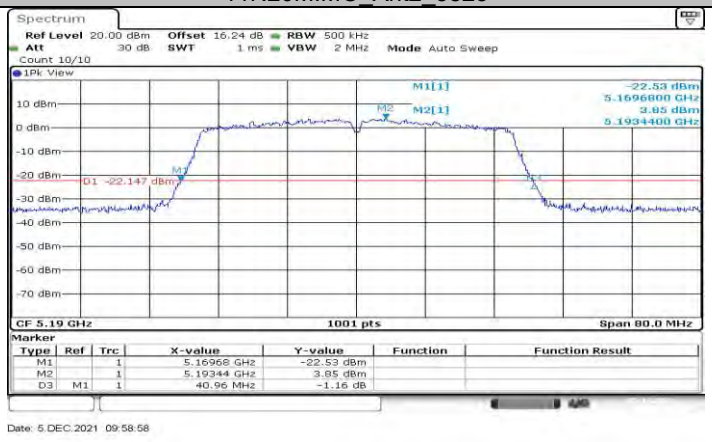


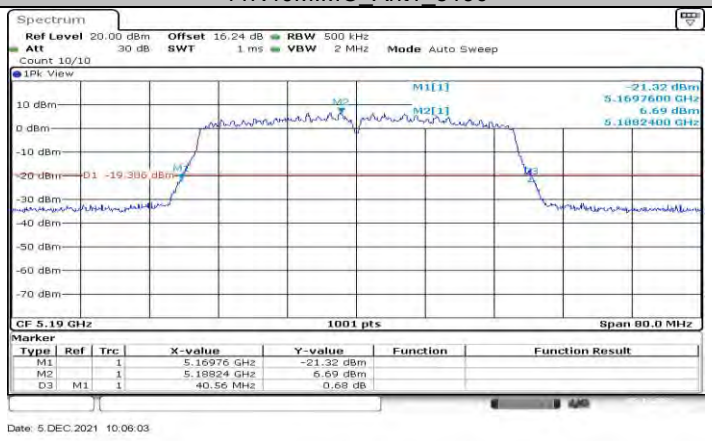
11N20MIMO_Ant1_5825



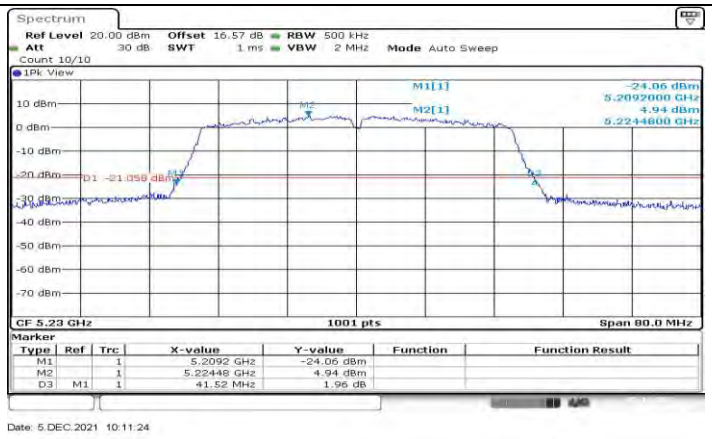
11N20MIMO_Ant2_5825



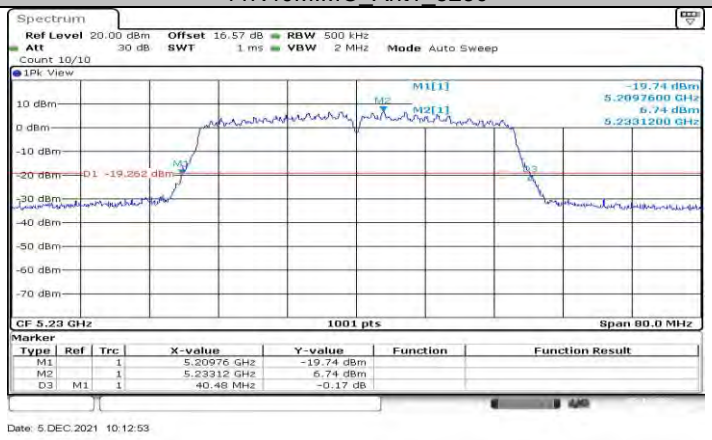
11N40MIMO_Ant1_5190



11N40MIMO_Ant2_5190



11N40MIMO_Ant1_5230



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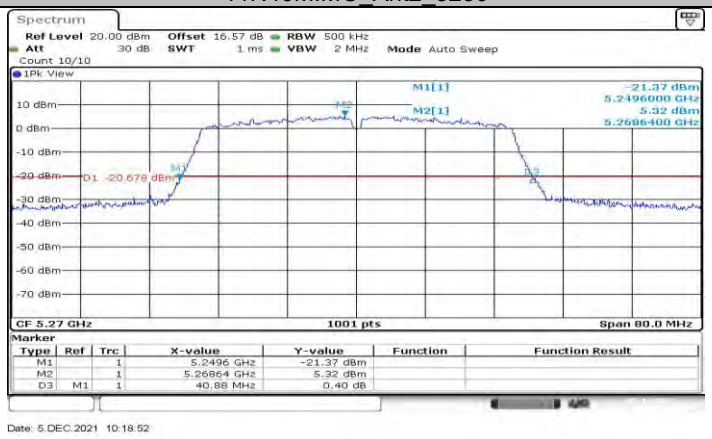
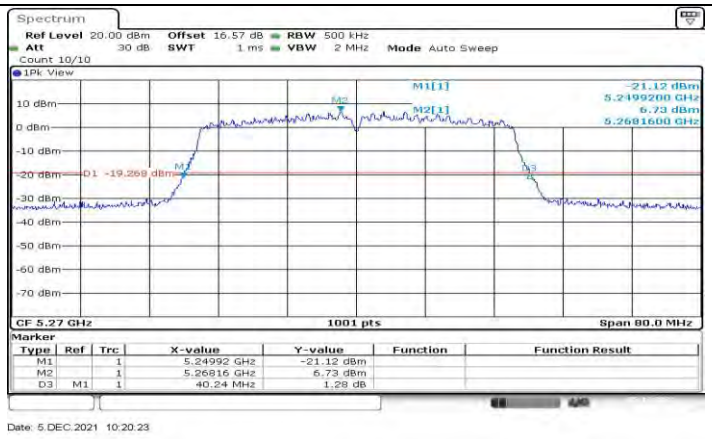
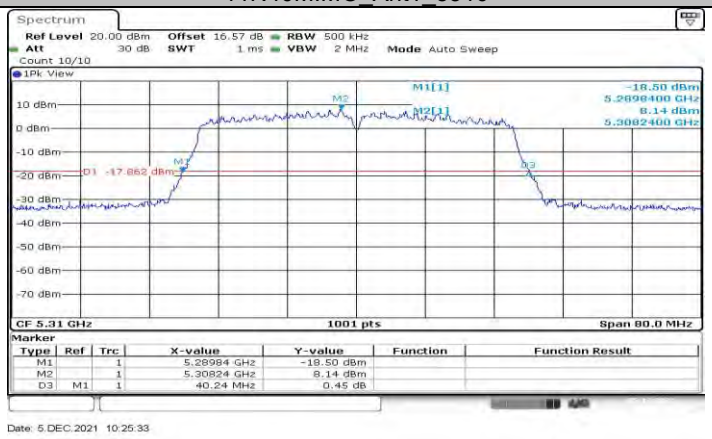


11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270

11N40MIMO_Ant1_5310



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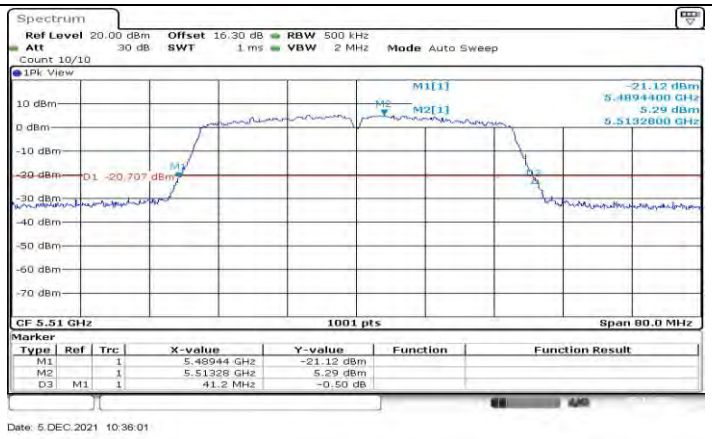
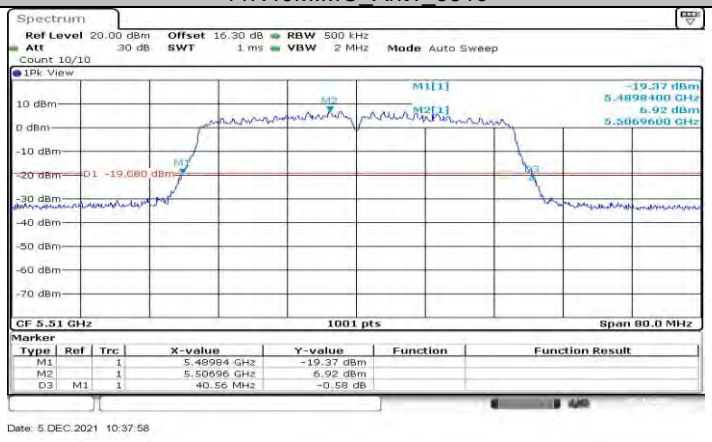


11N40MIMO_Ant1_5510



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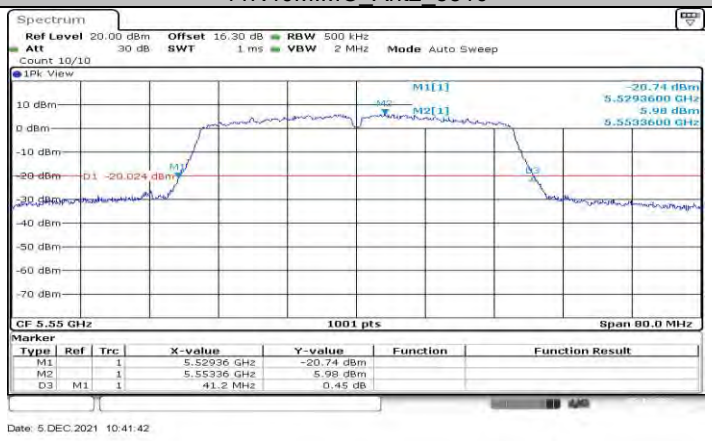
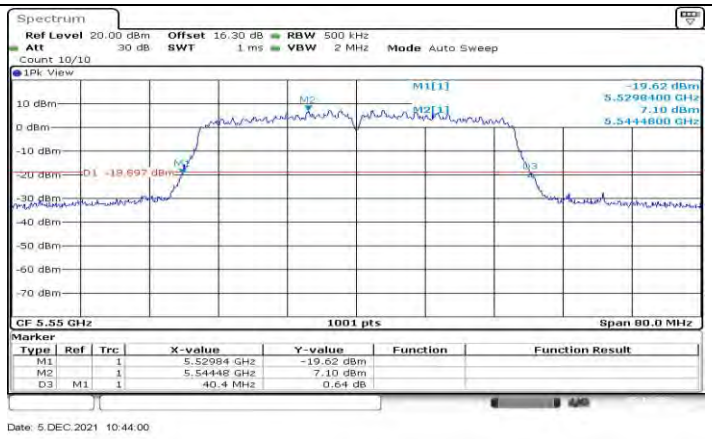


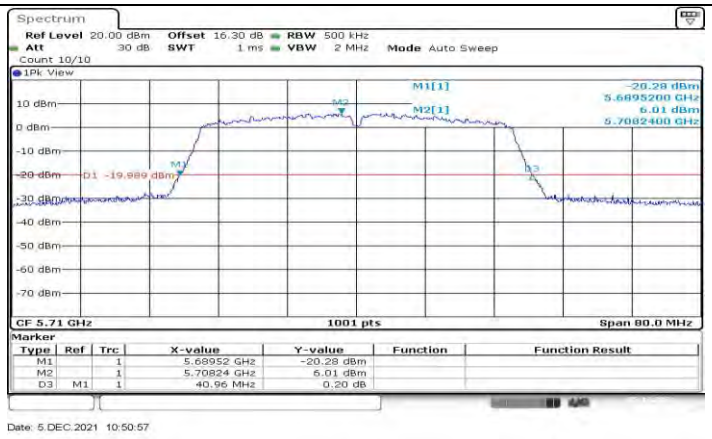
11N40MIMO_Ant1_5550



11N40MIMO_Ant2_5550

11N40MIMO_Ant1_5670

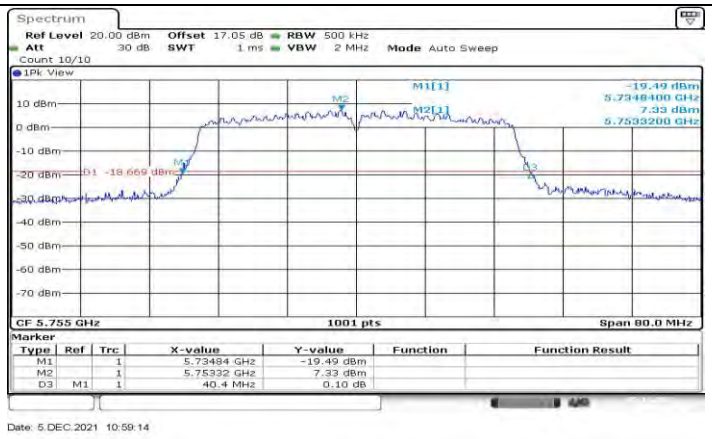
11N40MIMO_Ant2_5670



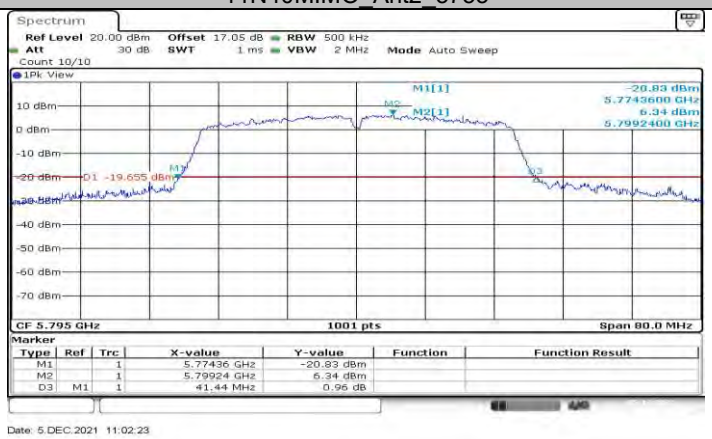
11N40MIMO_Ant1_5710

11N40MIMO_Ant2_5710

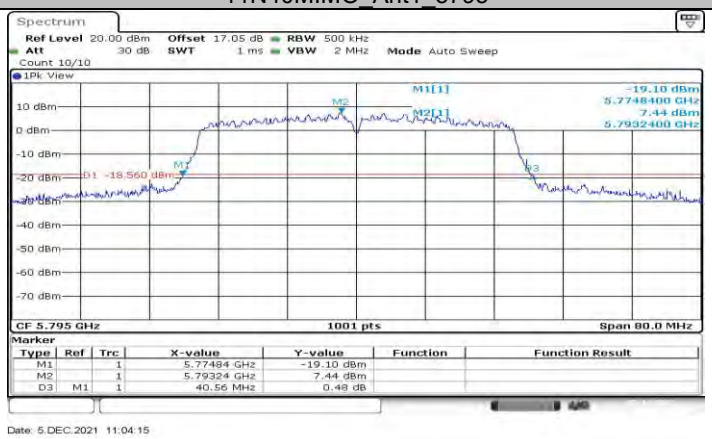
11N40MIMO_Ant1_5755



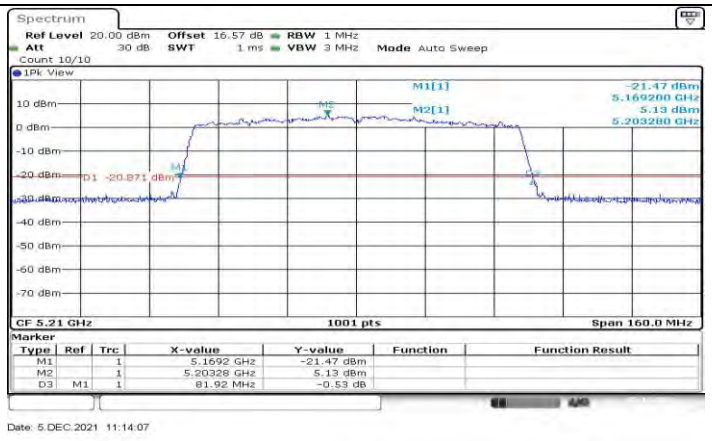
11N40MIMO_Ant2_5755



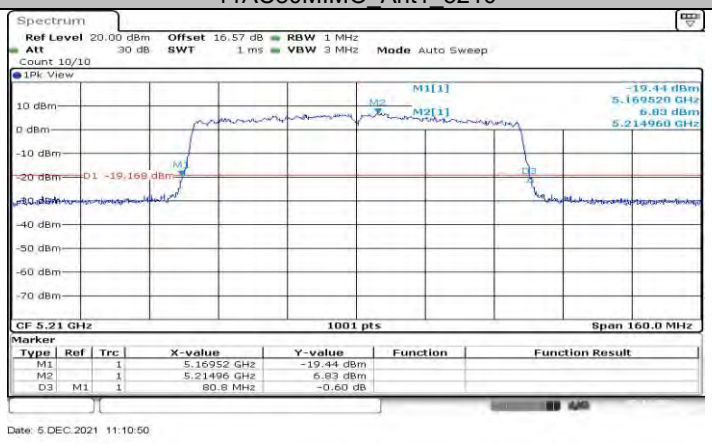
11N40MIMO_Ant1_5795



11N40MIMO_Ant2_5795

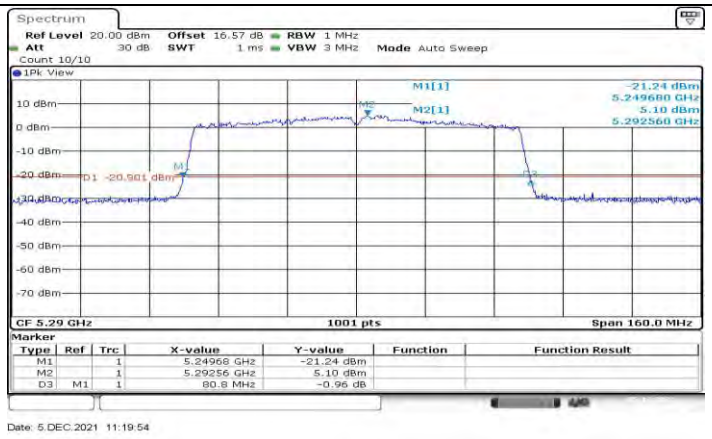


11AC80MIMO_Ant1_5210

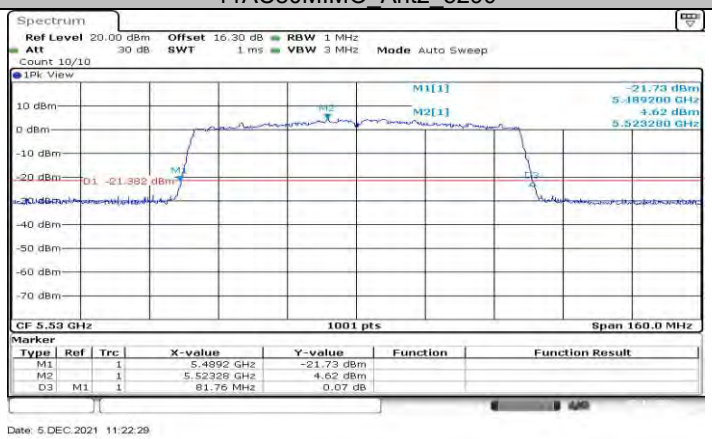


11AC80MIMO_Ant2_5210

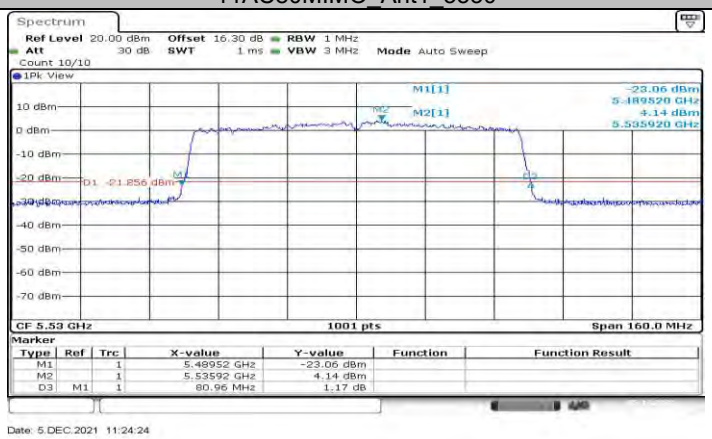
11AC80MIMO_Ant1_5290



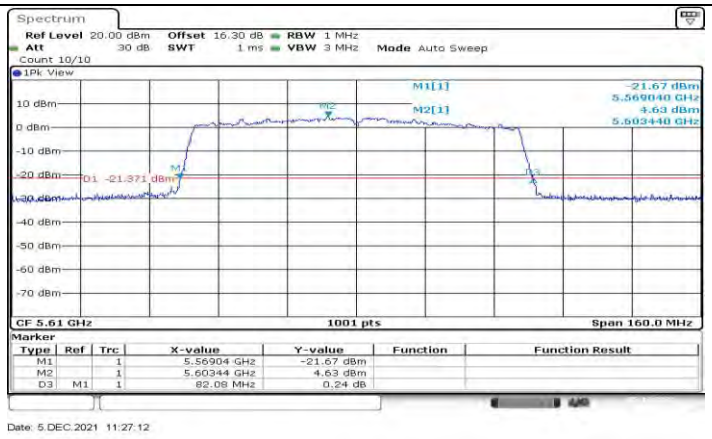
11AC80MIMO_Ant2_5290



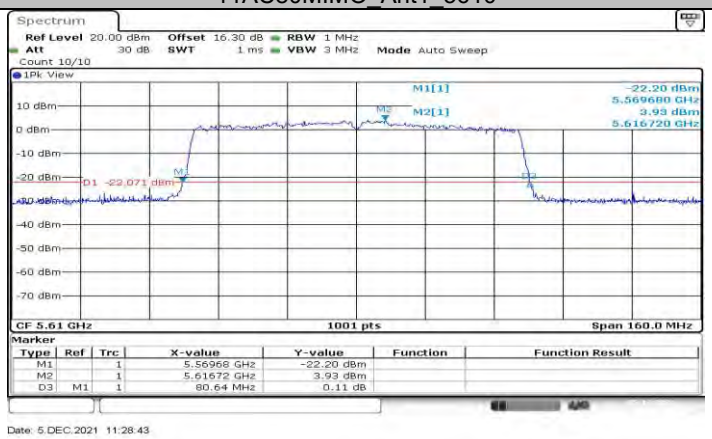
11AC80MIMO_Ant1_5530



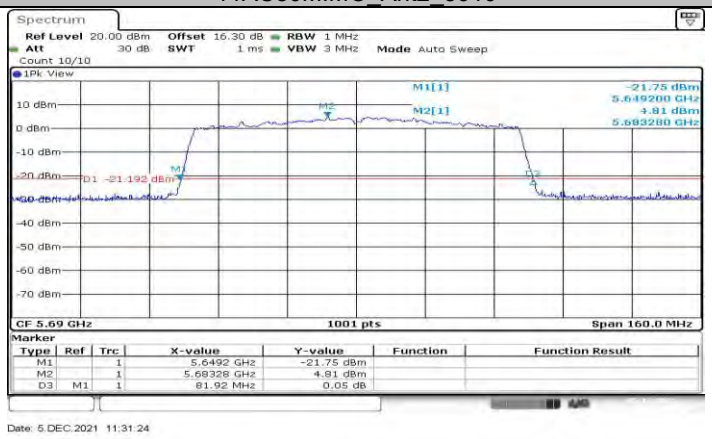
11AC80MIMO_Ant2_5530



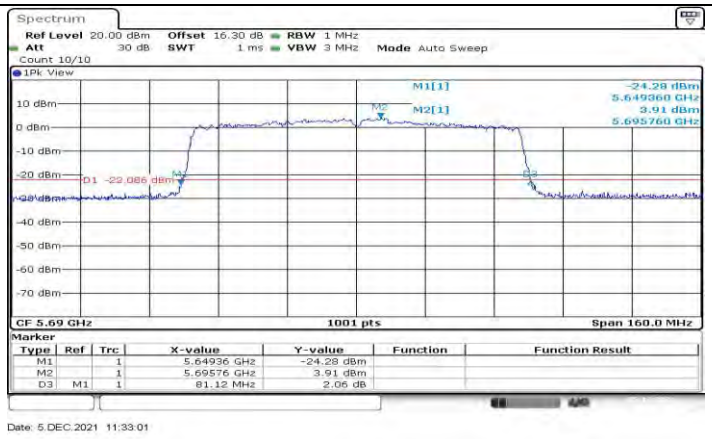
11AC80MIMO_Ant1_5610



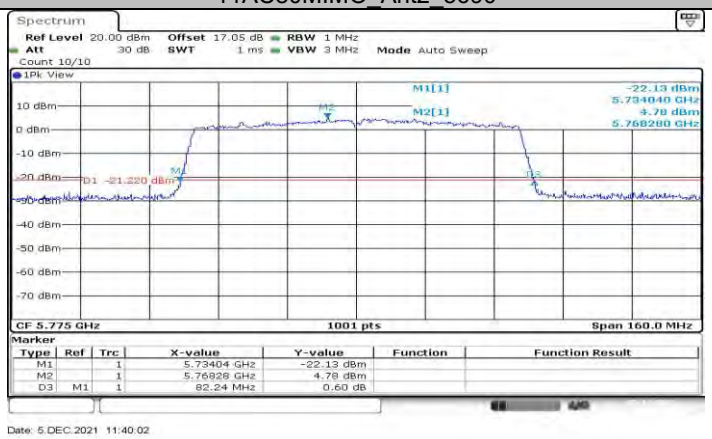
11AC80MIMO_Ant2_5610



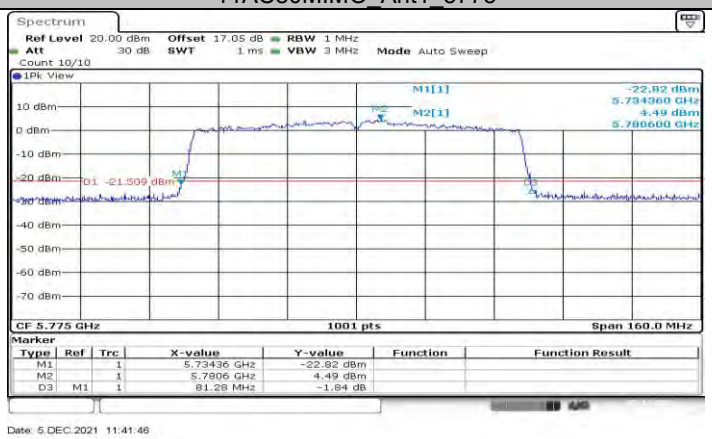
11AC80MIMO_Ant1_5690



11AC80MIMO_Ant2_5690



11AC80MIMO_Ant1_5775



11AC80MIMO_Ant2_5775

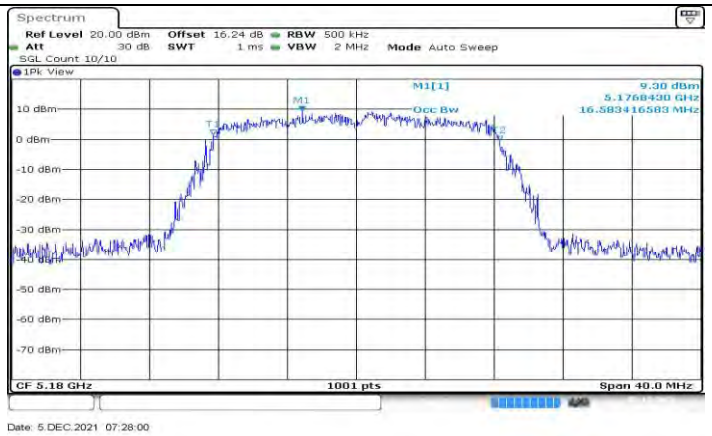
12.2. Appendix A2: Occupied channel bandwidth

12.2.1. Test Result

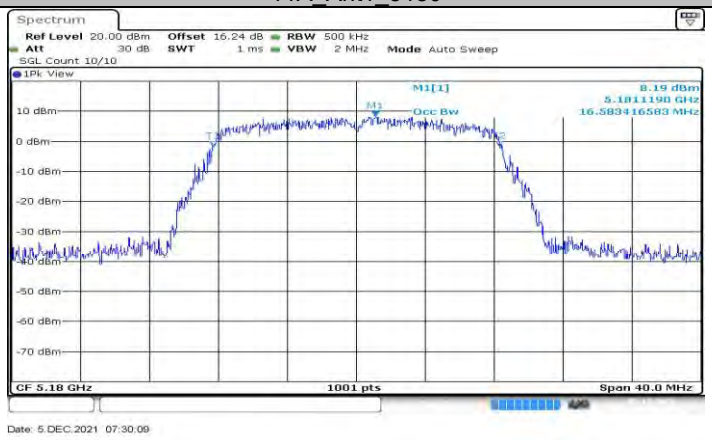
Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	16.583	5171.688	5188.272	PASS
	Ant2	5180	16.583	5171.728	5188.312	PASS
	Ant1	5200	16.623	5191.688	5208.312	PASS
	Ant2	5200	16.663	5191.648	5208.312	PASS
	Ant1	5240	16.623	5231.688	5248.312	PASS
	Ant2	5240	16.663	5231.648	5248.312	PASS
	Ant1	5260	16.583	5251.728	5268.312	PASS
	Ant2	5260	16.583	5251.728	5268.312	PASS
	Ant1	5280	16.703	5271.648	5288.352	PASS
	Ant2	5280	16.663	5271.728	5288.392	PASS
	Ant1	5320	16.623	5311.648	5328.272	PASS
	Ant2	5320	16.583	5311.728	5328.312	PASS
	Ant1	5500	16.663	5491.688	5508.352	PASS
	Ant2	5500	16.663	5491.608	5508.272	PASS
	Ant1	5580	16.663	5571.688	5588.352	PASS
	Ant2	5580	16.623	5571.728	5588.352	PASS
	Ant1	5700	16.583	5691.728	5708.312	PASS
	Ant2	5700	16.623	5691.688	5708.312	PASS
	Ant1	5720	16.623	5711.648	5728.272	PASS
	Ant2	5720	16.583	5711.688	5728.272	PASS
	Ant1	5720_UNII-2C	13.352	5711.648	5725	PASS
	Ant2	5720_UNII-2C	13.312	5711.688	5725	PASS
	Ant1	5720_UNII-3	3.272	5725	5728.272	PASS
	Ant2	5720_UNII-3	3.272	5725	5728.272	PASS
	Ant1	5745	16.663	5736.648	5753.312	PASS
	Ant2	5745	16.703	5736.688	5753.392	PASS
	Ant1	5785	16.663	5776.688	5793.352	PASS
	Ant2	5785	16.623	5776.768	5793.392	PASS
	Ant1	5825	16.663	5816.648	5833.312	PASS
	Ant2	5825	16.663	5816.728	5833.392	PASS
11N20MIMO	Ant1	5180	17.662	5171.129	5188.791	PASS
	Ant2	5180	17.622	5171.249	5188.871	PASS
	Ant1	5200	17.662	5191.129	5208.791	PASS
	Ant2	5200	17.502	5191.249	5208.751	PASS
	Ant1	5240	17.662	5231.169	5248.831	PASS
	Ant2	5240	17.582	5231.209	5248.791	PASS
	Ant1	5260	17.742	5251.169	5268.911	PASS
	Ant2	5260	17.662	5251.209	5268.871	PASS
	Ant1	5280	17.662	5271.169	5288.831	PASS
	Ant2	5280	17.542	5271.249	5288.791	PASS
	Ant1	5320	17.662	5311.129	5328.791	PASS
	Ant2	5320	17.662	5311.169	5328.831	PASS
	Ant1	5500	17.662	5491.169	5508.831	PASS
	Ant2	5500	17.622	5491.169	5508.791	PASS
	Ant1	5580	17.622	5571.169	5588.791	PASS
	Ant2	5580	17.582	5571.209	5588.791	PASS
	Ant1	5700	17.662	5691.209	5708.871	PASS
	Ant2	5700	17.622	5691.209	5708.831	PASS
	Ant1	5720	17.622	5711.169	5728.791	PASS
	Ant2	5720	17.582	5711.209	5728.791	PASS
	Ant1	5720_UNII-2C	13.831	5711.169	5725	PASS
	Ant2	5720_UNII-2C	13.791	5711.209	5725	PASS

	Ant1	5720_UNII-3	3.791	5725	5728.791	PASS
	Ant2	5720_UNII-3	3.791	5725	5728.791	PASS
	Ant1	5745	17.782	5736.129	5753.911	PASS
	Ant2	5745	17.582	5736.209	5753.791	PASS
	Ant1	5785	17.702	5776.169	5793.871	PASS
	Ant2	5785	17.702	5776.129	5793.831	PASS
	Ant1	5825	17.702	5816.129	5833.831	PASS
	Ant2	5825	17.622	5816.129	5833.751	PASS
11N40MIMO	Ant1	5190	36.124	5171.938	5208.062	PASS
	Ant2	5190	36.044	5172.018	5208.062	PASS
	Ant1	5230	36.204	5211.858	5248.062	PASS
	Ant2	5230	36.124	5211.938	5248.062	PASS
	Ant1	5270	36.204	5251.938	5288.142	PASS
	Ant2	5270	36.364	5251.858	5288.222	PASS
	Ant1	5310	36.204	5291.938	5328.142	PASS
	Ant2	5310	36.204	5291.858	5328.062	PASS
	Ant1	5510	36.204	5491.938	5528.142	PASS
	Ant2	5510	36.124	5491.938	5528.062	PASS
	Ant1	5550	36.124	5532.018	5568.142	PASS
	Ant2	5550	36.124	5531.938	5568.062	PASS
	Ant1	5670	36.204	5651.938	5688.142	PASS
	Ant2	5670	36.444	5651.698	5688.142	PASS
	Ant1	5710	36.124	5692.018	5728.142	PASS
	Ant2	5710	36.124	5691.938	5728.062	PASS
	Ant1	5710_UNII-2C	32.982	5692.018	5725	PASS
	Ant2	5710_UNII-2C	33.062	5691.938	5725	PASS
	Ant1	5710_UNII-3	3.142	5725	5728.142	PASS
	Ant2	5710_UNII-3	3.062	5725	5728.062	PASS
	Ant1	5755	36.204	5736.938	5773.142	PASS
	Ant2	5755	36.204	5736.938	5773.142	PASS
	Ant1	5795	36.124	5777.018	5813.142	PASS
	Ant2	5795	36.044	5777.018	5813.062	PASS
11AC80MIMO	Ant1	5210	75.764	5172.278	5248.042	PASS
	Ant2	5210	75.125	5172.438	5247.562	PASS
	Ant1	5290	75.445	5252.278	5327.722	PASS
	Ant2	5290	75.445	5252.438	5327.882	PASS
	Ant1	5530	75.764	5492.278	5568.042	PASS
	Ant2	5530	75.445	5492.438	5567.882	PASS
	Ant1	5610	75.445	5572.278	5647.722	PASS
	Ant2	5610	75.764	5572.118	5647.882	PASS
	Ant1	5690	75.445	5652.438	5727.882	PASS
	Ant2	5690	75.445	5652.438	5727.882	PASS
	Ant1	5690_UNII-2C	72.562	5652.438	5725	PASS
	Ant2	5690_UNII-2C	72.562	5652.438	5725	PASS
	Ant1	5690_UNII-3	2.882	5725	5727.882	PASS
	Ant2	5690_UNII-3	2.882	5725	5727.882	PASS
	Ant1	5775	75.764	5737.278	5813.042	PASS
	Ant2	5775	75.924	5737.118	5813.042	PASS

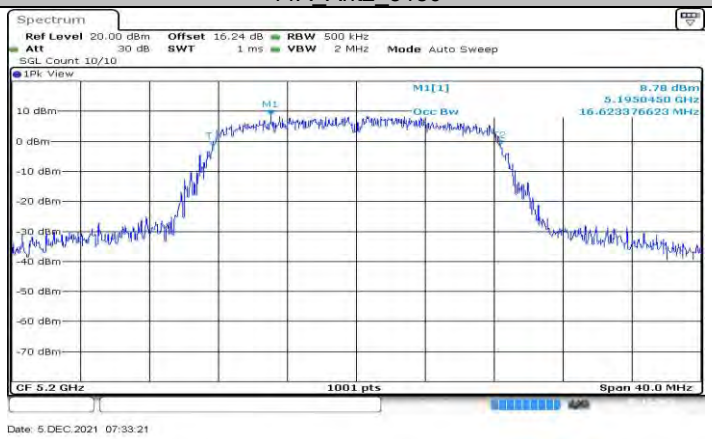
12.2.2. Test Graphs



11A_Ant1_5180



11A_Ant2_5180



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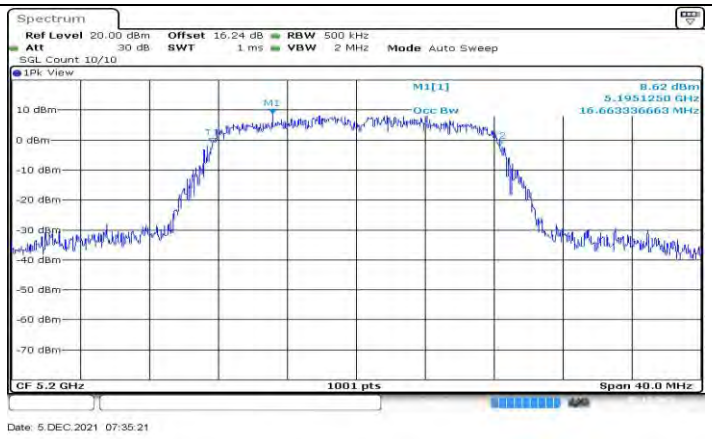

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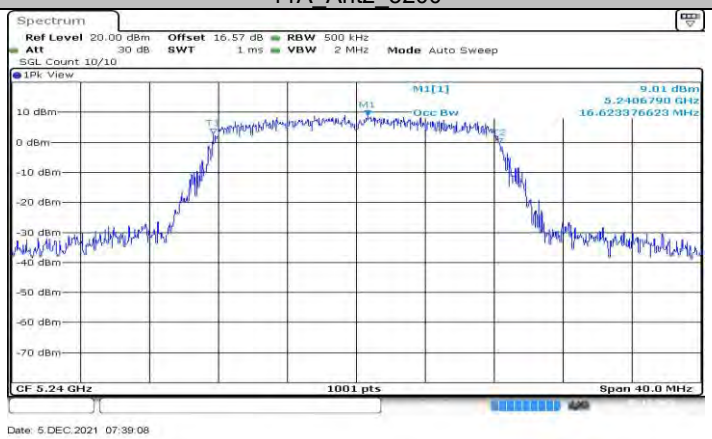
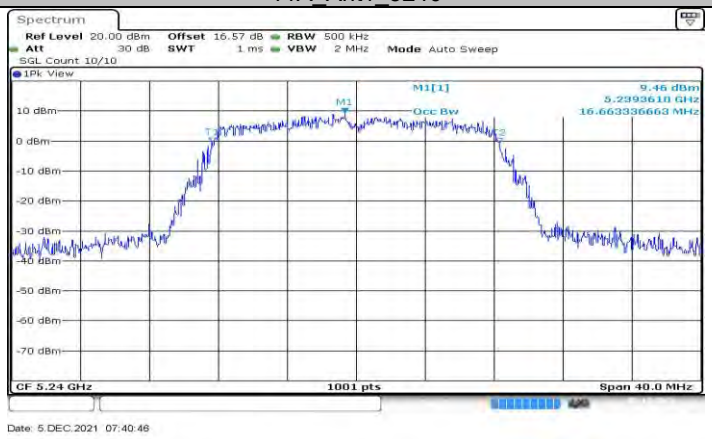
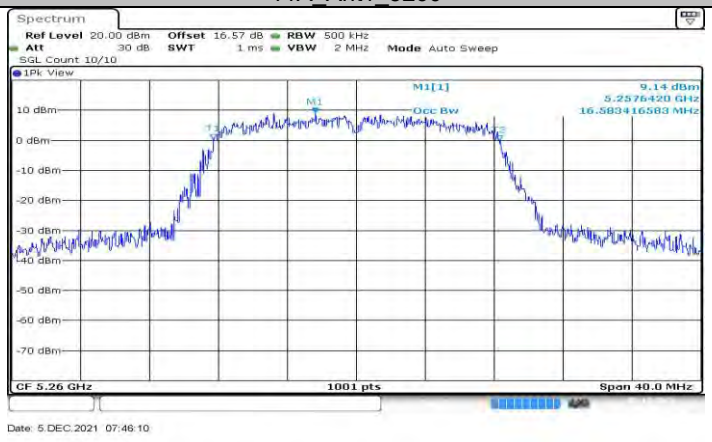


11A_Ant1_5240



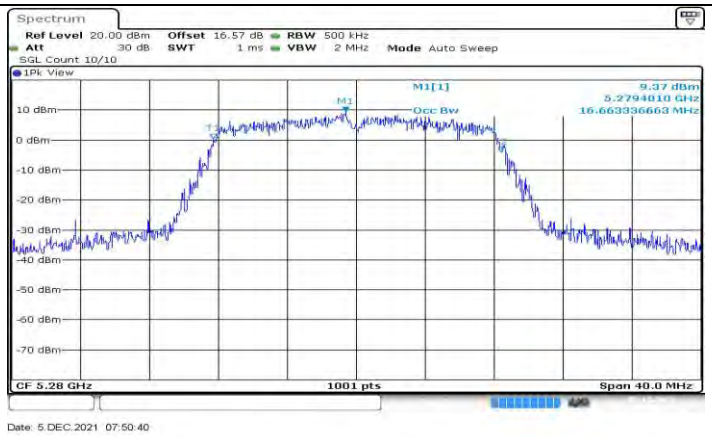
11A_Ant2_5240

11A_Ant1_5260

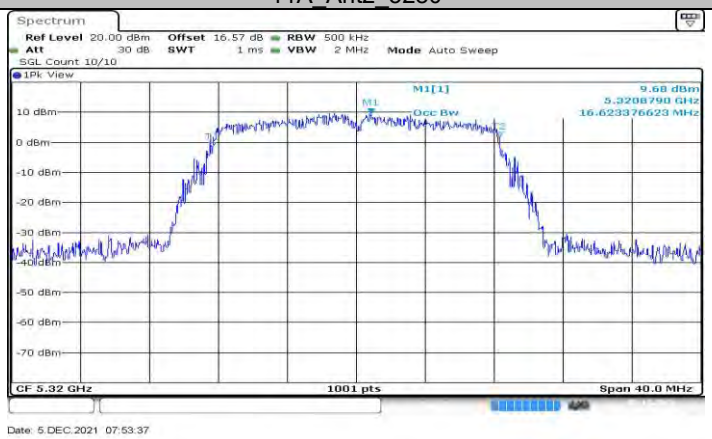


11A_Ant2_5260

11A_Ant1_5280

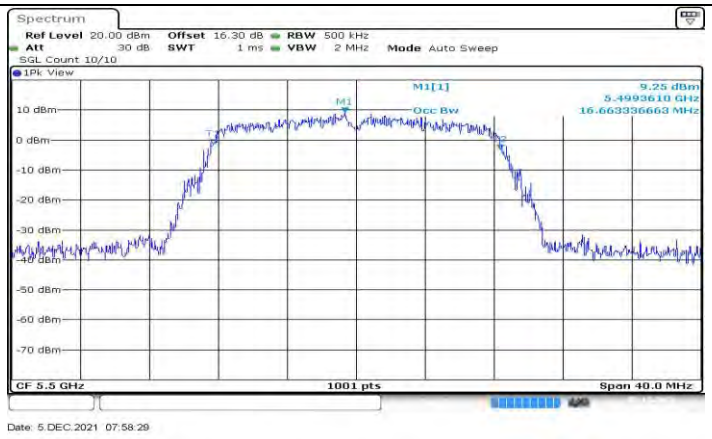


11A_Ant2_5280



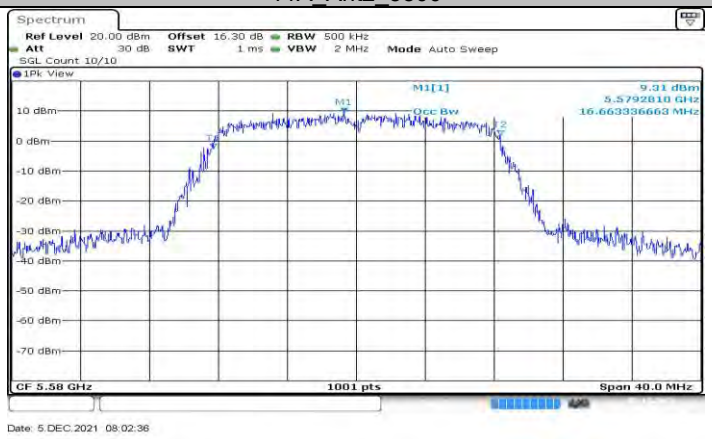
11A_Ant1_5320

11A_Ant2_5320



11A_Ant1_5500

11A_Ant2_5500



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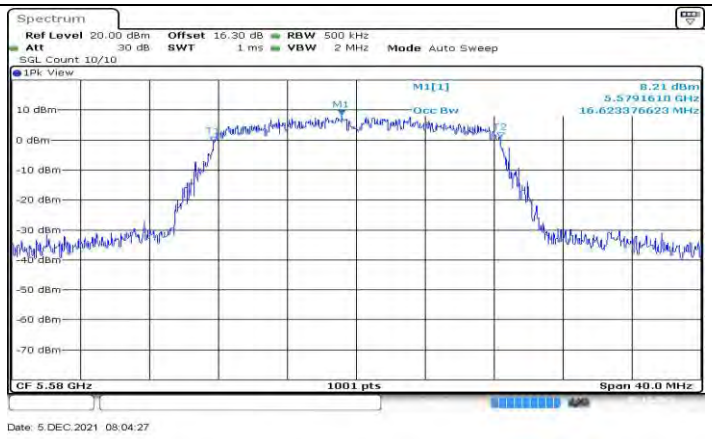

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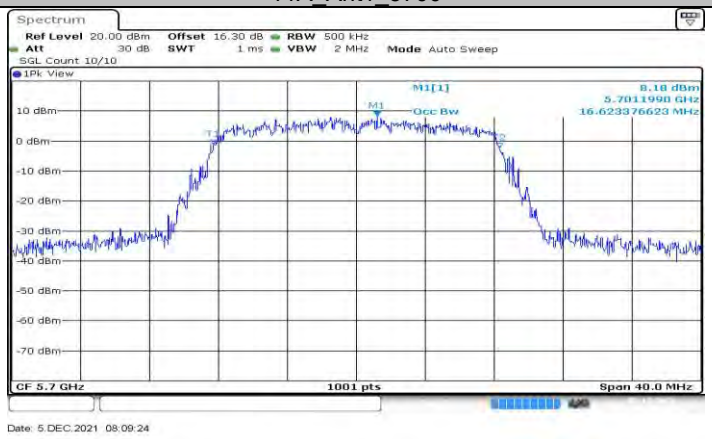

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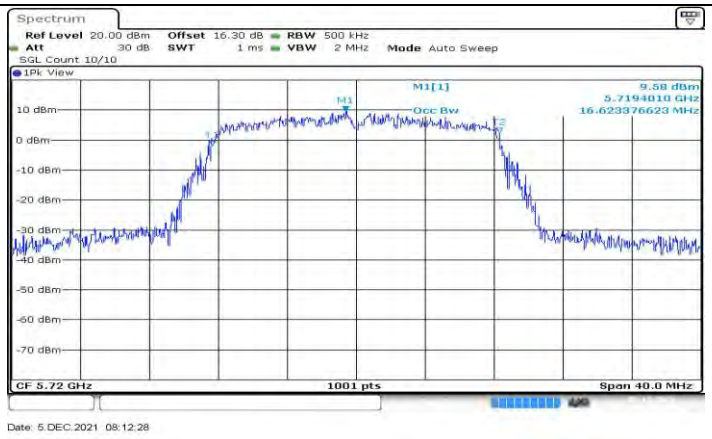

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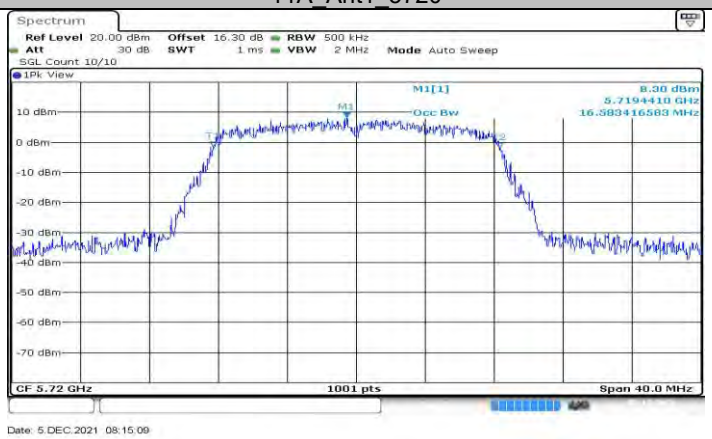

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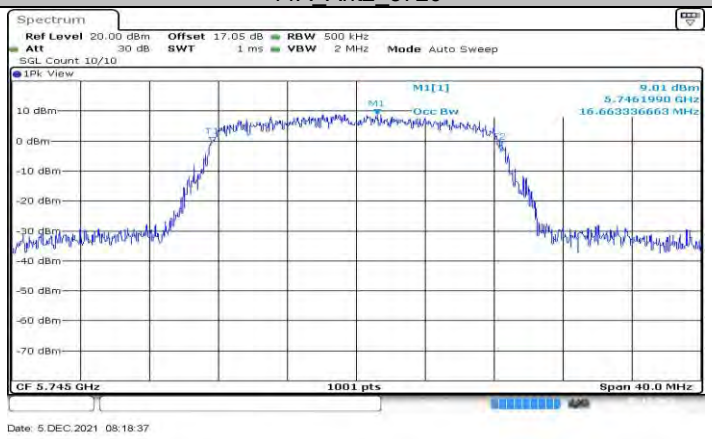

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