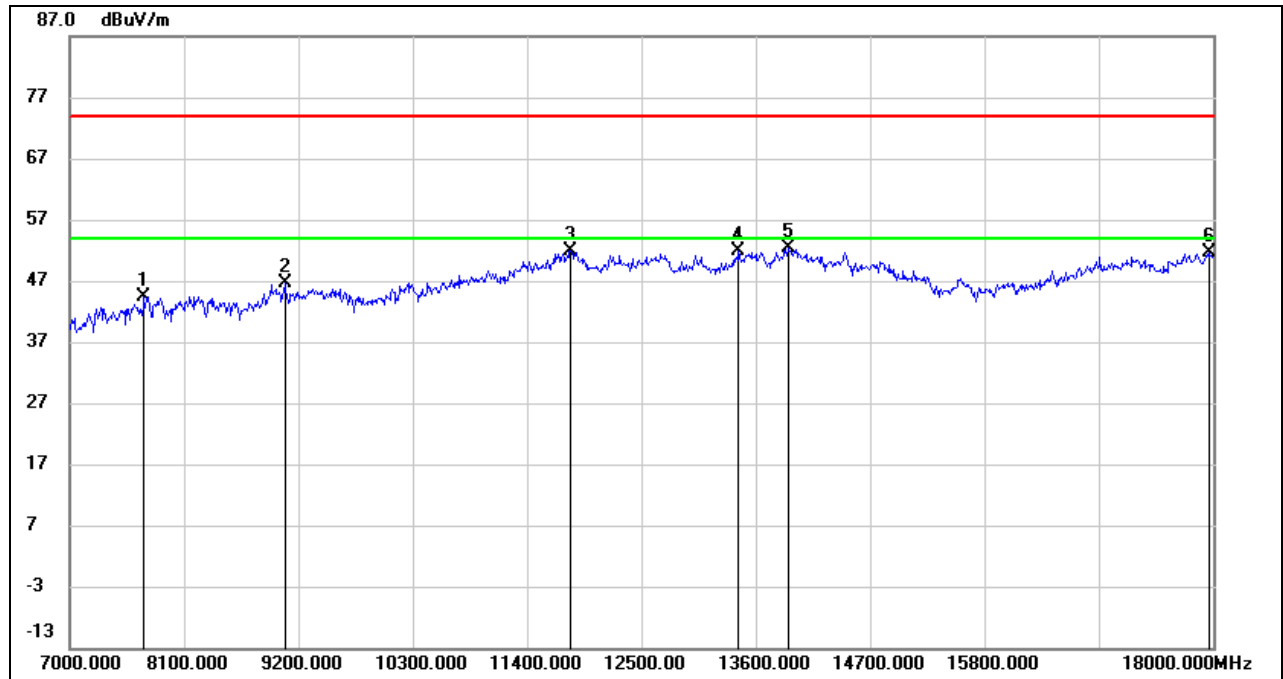


HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)

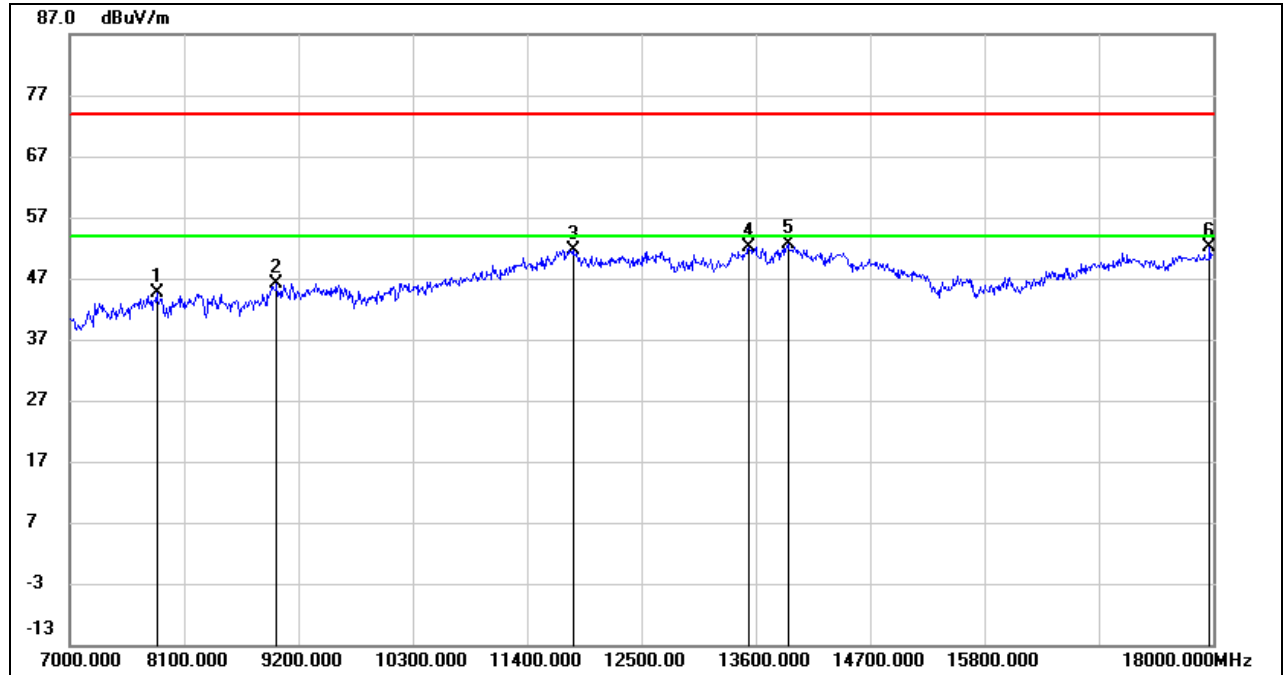


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7715.000	38.63	5.81	44.44	74.00	-29.56	peak
2	9068.000	37.42	9.16	46.58	74.00	-27.42	peak
3	11818.000	34.68	17.20	51.88	74.00	-22.12	peak
4	13435.000	32.43	19.33	51.76	74.00	-22.24	peak
5	13908.000	31.83	20.58	52.41	74.00	-21.59	peak
6	17967.000	28.06	23.59	51.65	74.00	-22.35	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)

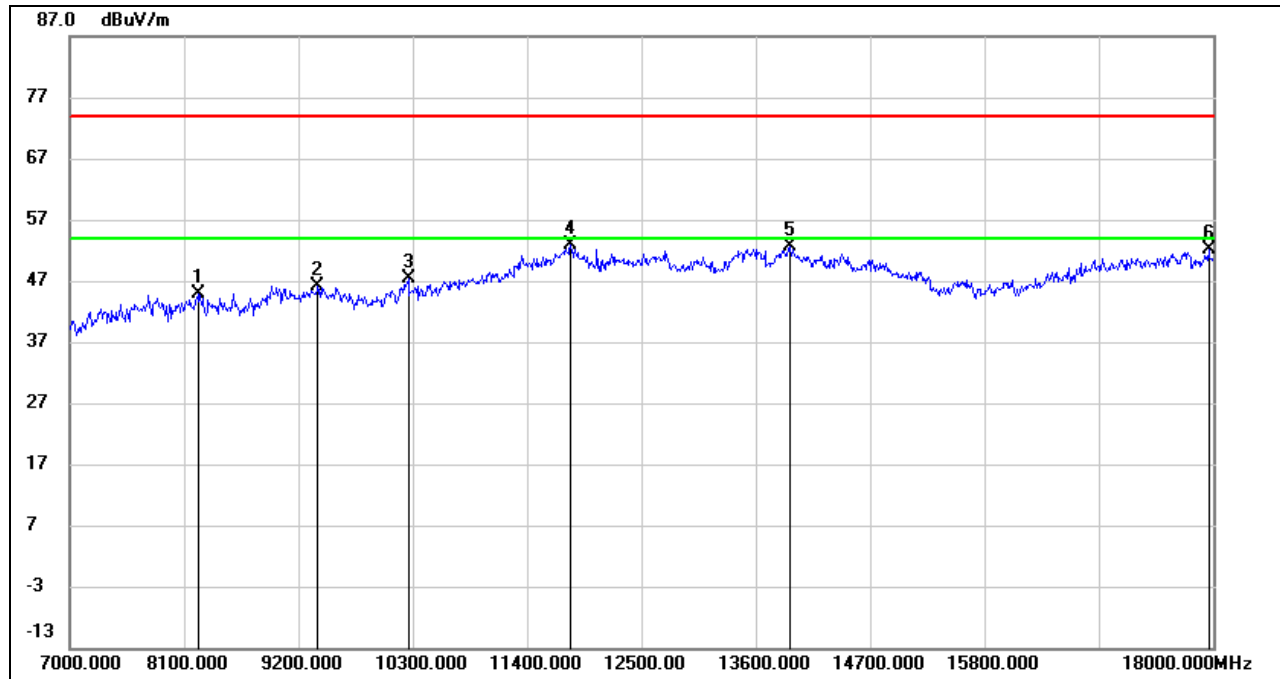


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.59	5.95	44.54	74.00	-29.46	peak
2	8991.000	36.80	9.42	46.22	74.00	-27.78	peak
3	11840.000	34.42	17.20	51.62	74.00	-22.38	peak
4	13534.000	32.45	19.63	52.08	74.00	-21.92	peak
5	13908.000	32.11	20.58	52.69	74.00	-21.31	peak
6	17967.000	28.51	23.59	52.10	74.00	-21.90	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: $VBW=1/T_{on}$, where: T_{on} 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.



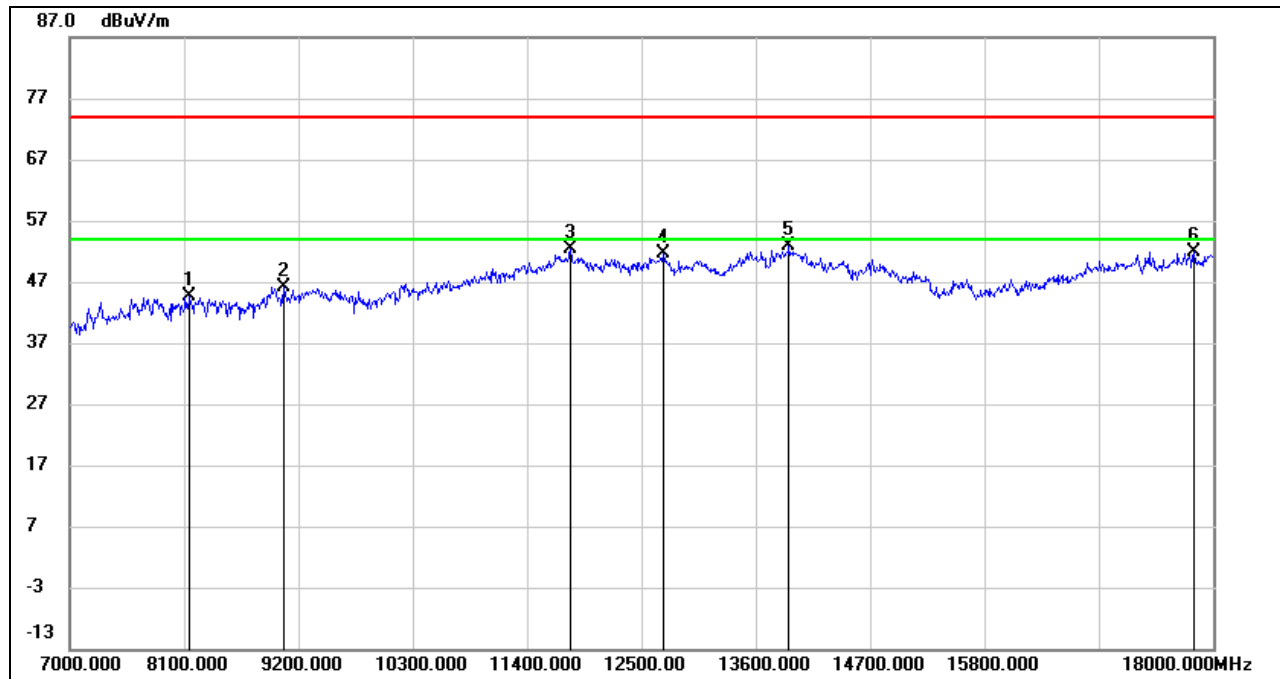
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	37.64	7.14	44.78	74.00	-29.22	peak
2	9387.000	36.64	9.60	46.24	74.00	-27.76	peak
3	10256.000	36.31	11.07	47.38	74.00	-26.62	peak
4	11818.000	35.78	17.20	52.98	74.00	-21.02	peak
5	13930.000	32.09	20.59	52.68	74.00	-21.32	peak
6	17956.000	28.63	23.57	52.20	74.00	-21.80	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)

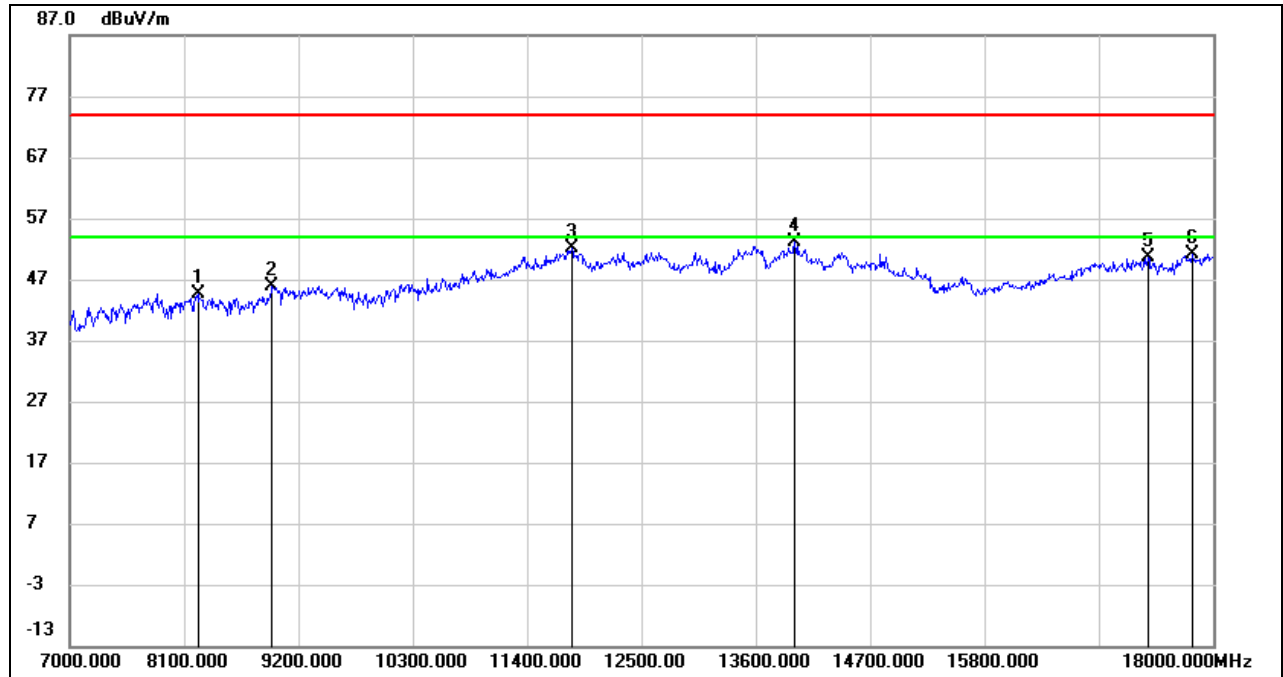


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8155.000	37.92	6.81	44.73	74.00	-29.27	peak
2	9057.000	36.90	9.22	46.12	74.00	-27.88	peak
3	11818.000	35.18	17.20	52.38	74.00	-21.62	peak
4	12709.000	34.54	17.07	51.61	74.00	-22.39	peak
5	13919.000	32.29	20.58	52.87	74.00	-21.13	peak
6	17813.000	28.70	23.23	51.93	74.00	-22.07	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: $VBW=1/T_{on}$, where: T_{on} 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)



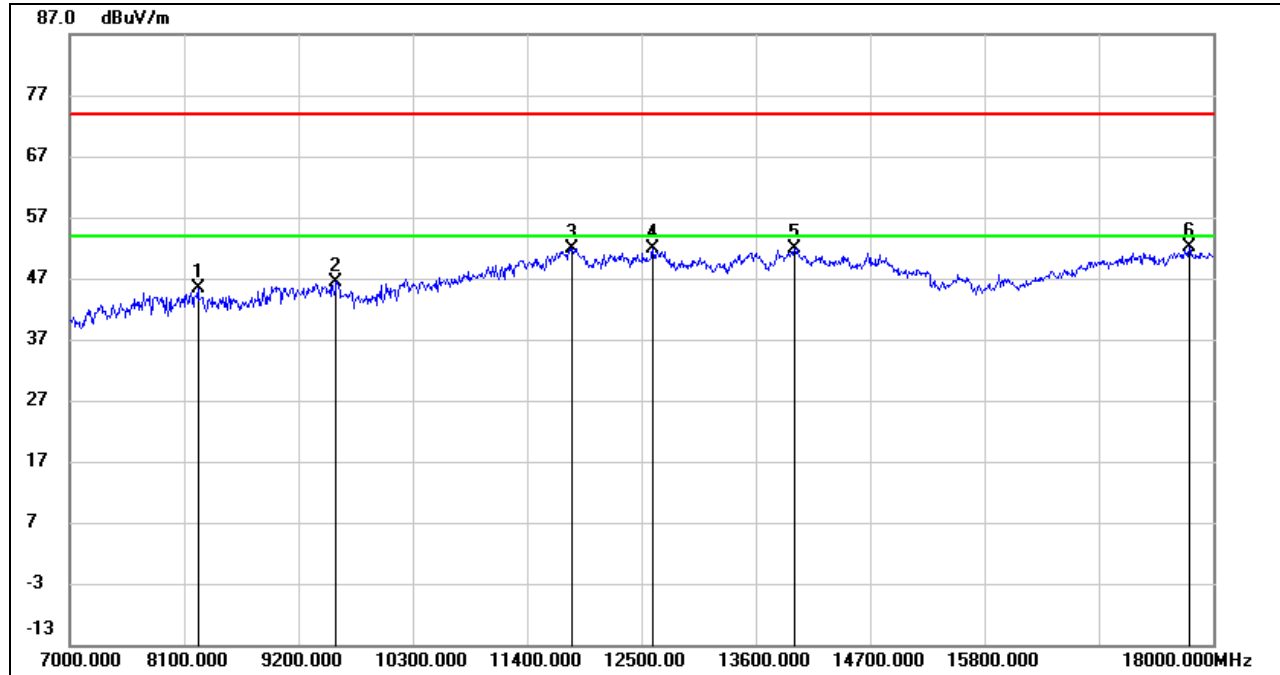
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	37.42	7.14	44.56	74.00	-29.44	peak
2	8947.000	37.05	8.89	45.94	74.00	-28.06	peak
3	11829.000	34.94	17.20	52.14	74.00	-21.86	peak
4	13974.000	32.53	20.63	53.16	74.00	-20.84	peak
5	17373.000	30.34	20.19	50.53	74.00	-23.47	peak
6	17802.000	27.85	23.19	51.04	74.00	-22.96	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)

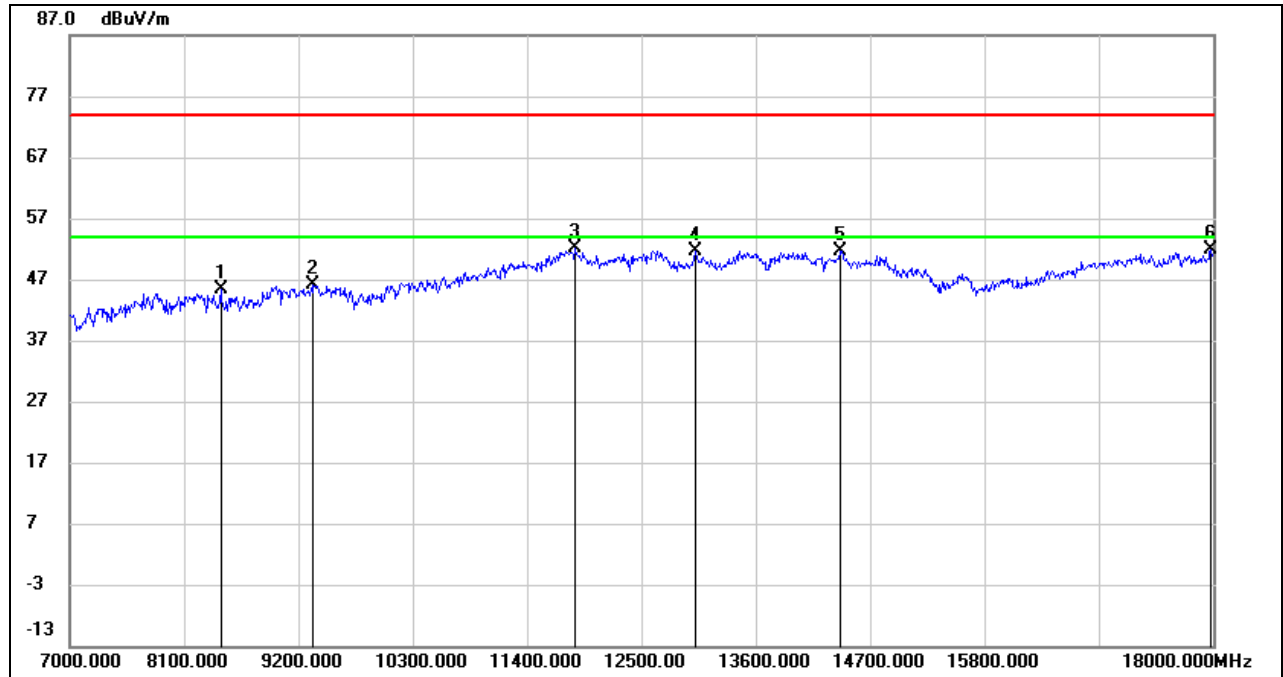


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	38.33	7.14	45.47	74.00	-28.53	peak
2	9563.000	36.43	10.05	46.48	74.00	-27.52	peak
3	11829.000	34.79	17.20	51.99	74.00	-22.01	peak
4	12610.000	34.93	16.83	51.76	74.00	-22.24	peak
5	13974.000	31.36	20.63	51.99	74.00	-22.01	peak
6	17769.000	29.27	22.86	52.13	74.00	-21.87	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.
 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)

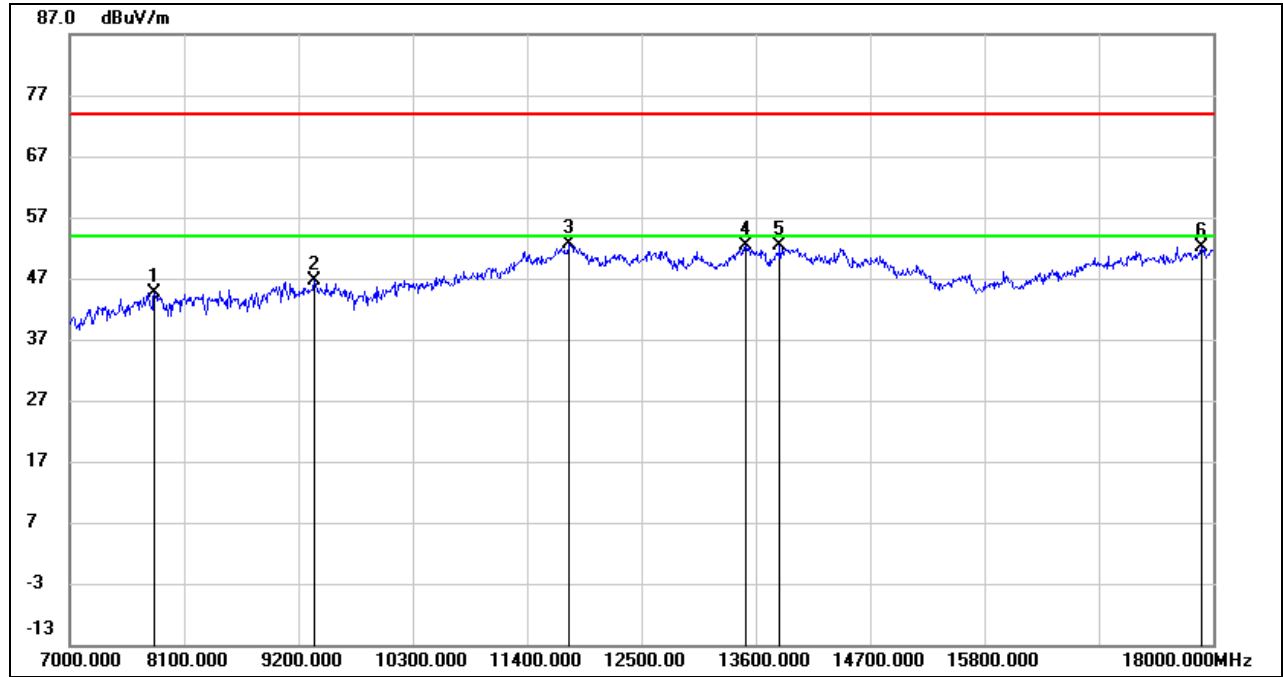


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8452.000	38.81	6.66	45.47	74.00	-28.53	peak
2	9343.000	36.77	9.32	46.09	74.00	-27.91	peak
3	11862.000	34.84	17.19	52.03	74.00	-21.97	peak
4	13017.000	34.43	17.22	51.65	74.00	-22.35	peak
5	14414.000	32.81	18.86	51.67	74.00	-22.33	peak
6	17978.000	28.26	23.63	51.89	74.00	-22.11	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.



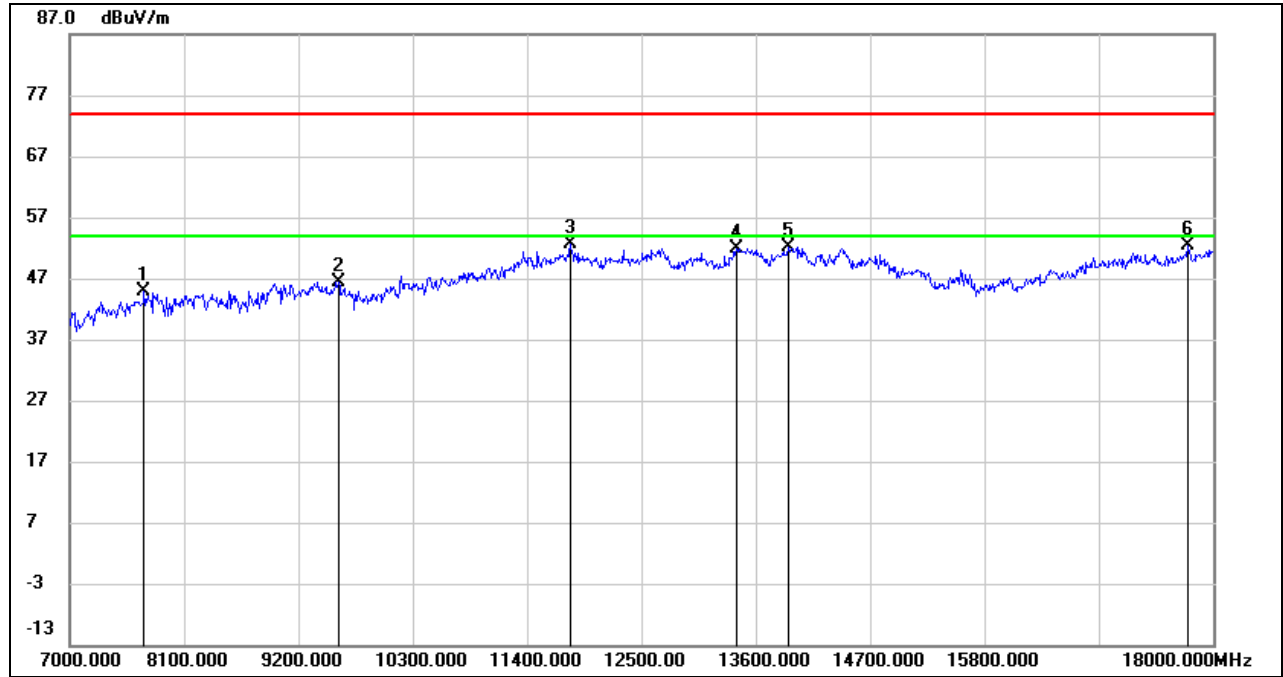
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	38.54	6.03	44.57	74.00	-29.43	peak
2	9354.000	37.36	9.39	46.75	74.00	-27.25	peak
3	11807.000	35.42	17.22	52.64	74.00	-21.36	peak
4	13501.000	32.81	19.58	52.39	74.00	-21.61	peak
5	13831.000	31.91	20.53	52.44	74.00	-21.56	peak
6	17890.000	28.68	23.41	52.09	74.00	-21.91	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: $VBW=1/T_{on}$, where: T_{on} 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)

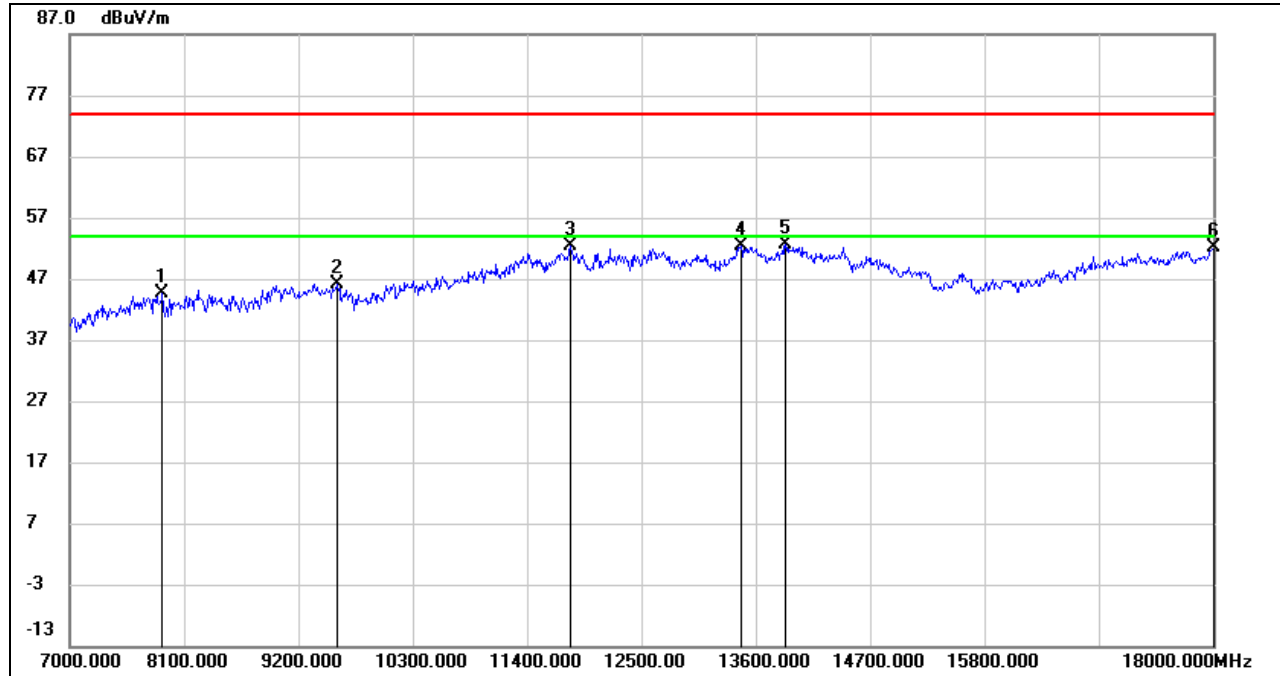


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7715.000	39.08	5.81	44.89	74.00	-29.11	peak
2	9585.000	36.31	10.11	46.42	74.00	-27.58	peak
3	11818.000	35.49	17.20	52.69	74.00	-21.31	peak
4	13413.000	32.74	19.25	51.99	74.00	-22.01	peak
5	13908.000	31.64	20.58	52.22	74.00	-21.78	peak
6	17758.000	29.63	22.75	52.38	74.00	-21.62	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)

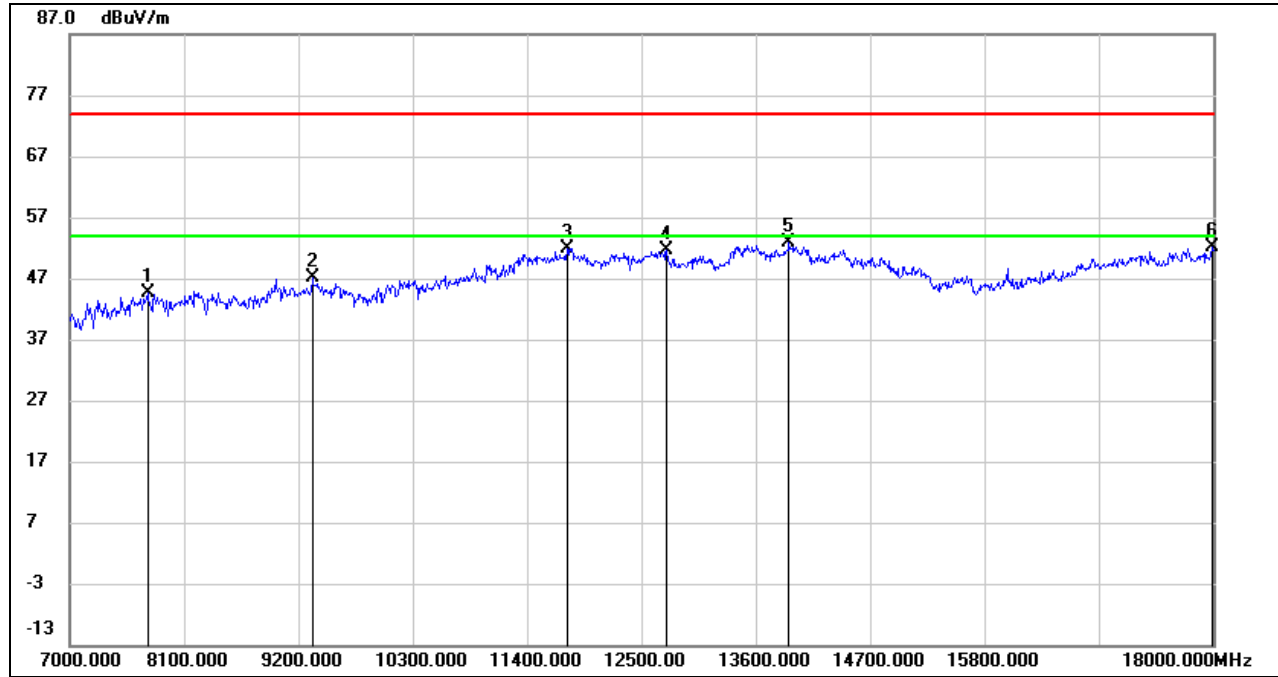


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7891.000	38.78	5.74	44.52	74.00	-29.48	peak
2	9574.000	35.97	10.07	46.04	74.00	-27.96	peak
3	11818.000	35.16	17.20	52.36	74.00	-21.64	peak
4	13457.000	33.05	19.42	52.47	74.00	-21.53	peak
5	13886.000	31.98	20.56	52.54	74.00	-21.46	peak
6	18000.000	28.50	23.68	52.18	74.00	-21.82	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.



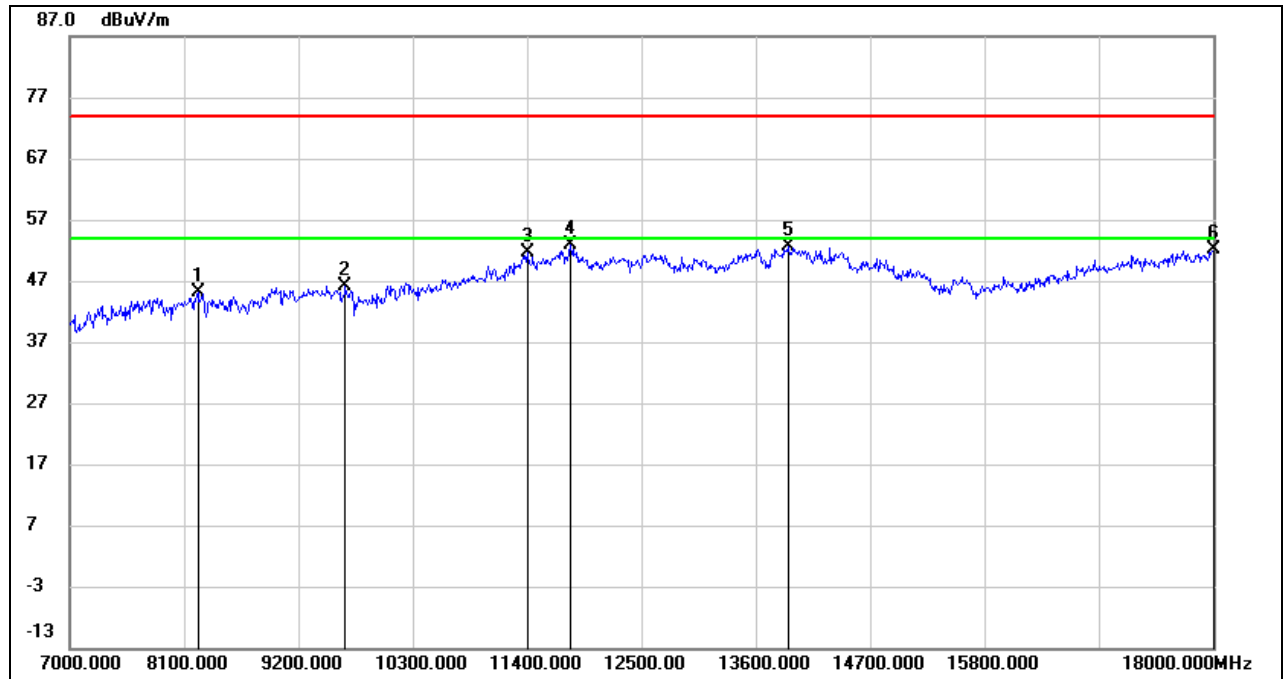
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7748.000	38.79	5.92	44.71	74.00	-29.29	peak
2	9332.000	37.88	9.25	47.13	74.00	-26.87	peak
3	11785.000	34.77	17.12	51.89	74.00	-22.11	peak
4	12742.000	34.59	17.15	51.74	74.00	-22.26	peak
5	13919.000	32.20	20.58	52.78	74.00	-21.22	peak
6	17989.000	28.48	23.65	52.13	74.00	-21.87	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.
 4. AVG: $VBW=1/T_{on}$, where: T_{on} 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.

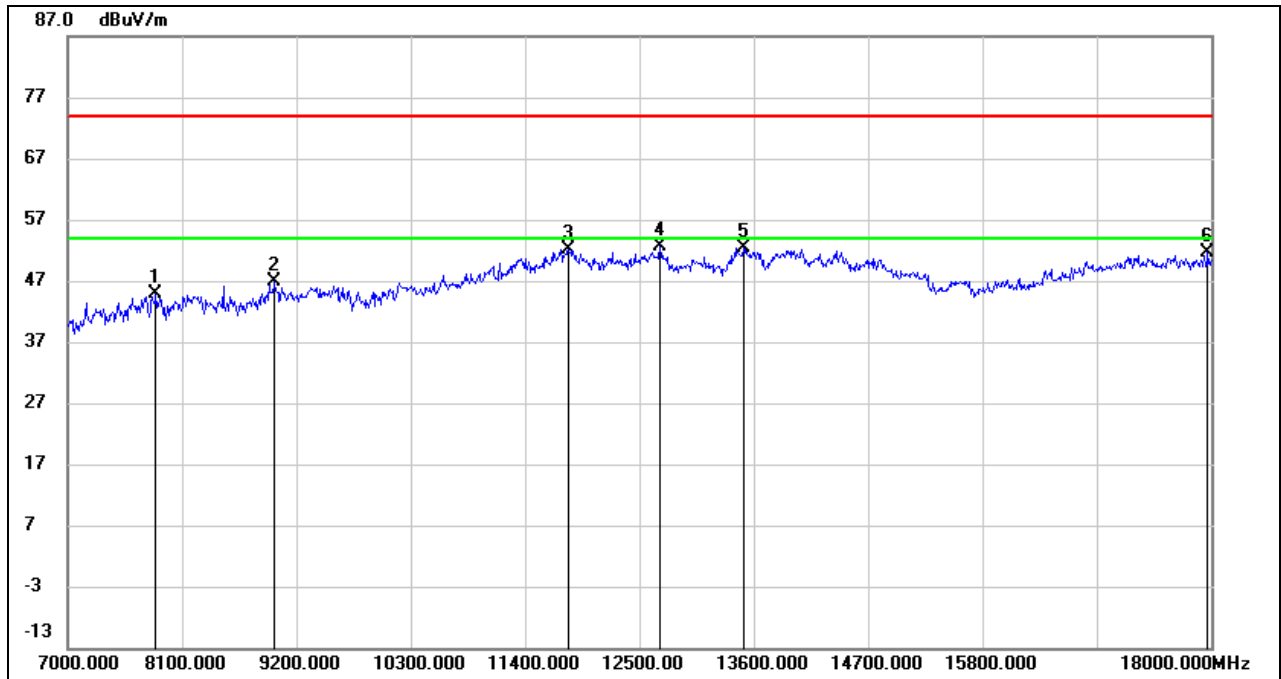
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	38.03	7.14	45.17	74.00	-28.83	peak
2	9651.000	36.14	10.09	46.23	74.00	-27.77	peak
3	11400.000	36.23	15.28	51.51	74.00	-22.49	peak
4	11818.000	35.79	17.20	52.99	74.00	-21.01	peak
5	13908.000	31.99	20.58	52.57	74.00	-21.43	peak
6	18000.000	28.35	23.68	52.03	74.00	-21.97	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)

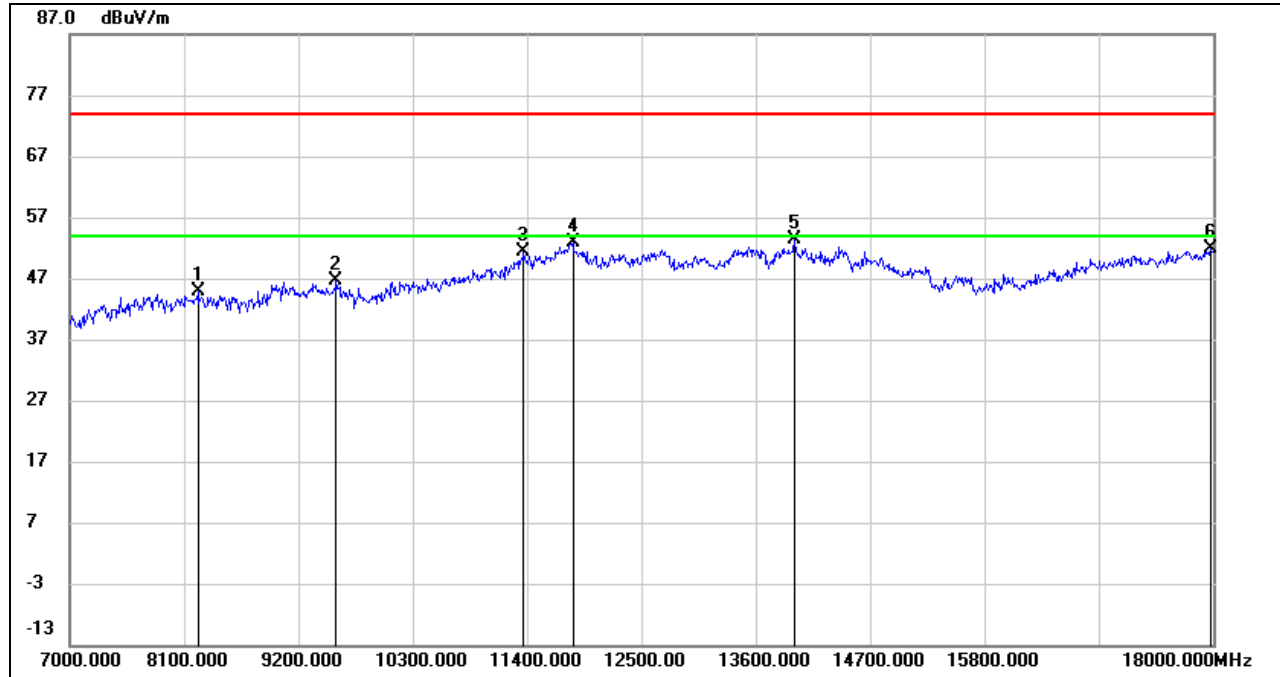


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7847.000	38.95	5.91	44.86	74.00	-29.14	peak
2	8991.000	37.35	9.42	46.77	74.00	-27.23	peak
3	11818.000	35.00	17.20	52.20	74.00	-21.80	peak
4	12698.000	35.67	17.05	52.72	74.00	-21.28	peak
5	13501.000	32.83	19.58	52.41	74.00	-21.59	peak
6	17967.000	27.97	23.59	51.56	74.00	-22.44	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.

UNII-2C BAND

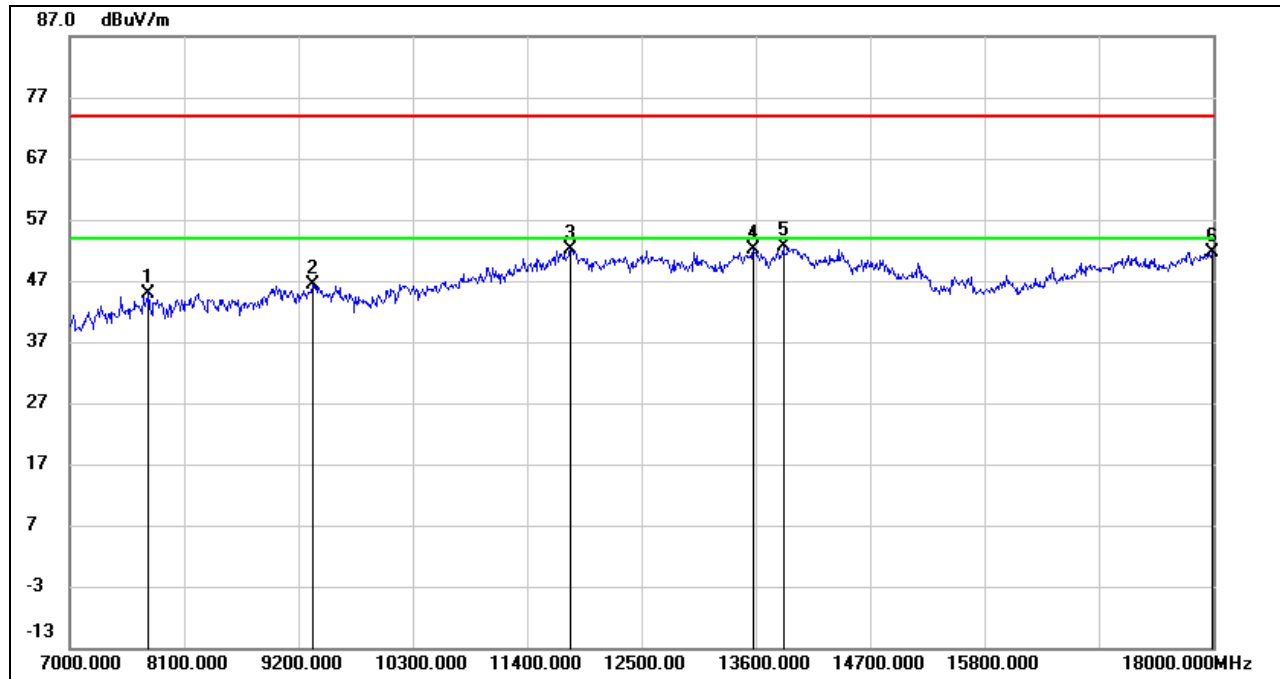
HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	37.72	7.14	44.86	74.00	-29.14	peak
2	9563.000	36.49	10.05	46.54	74.00	-27.46	peak
3	11367.000	36.19	15.08	51.27	74.00	-22.73	peak
4	11840.000	35.63	17.20	52.83	74.00	-21.17	peak
5	13974.000	32.69	20.63	53.32	74.00	-20.68	peak
6	17978.000	28.36	23.63	51.99	74.00	-22.01	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)

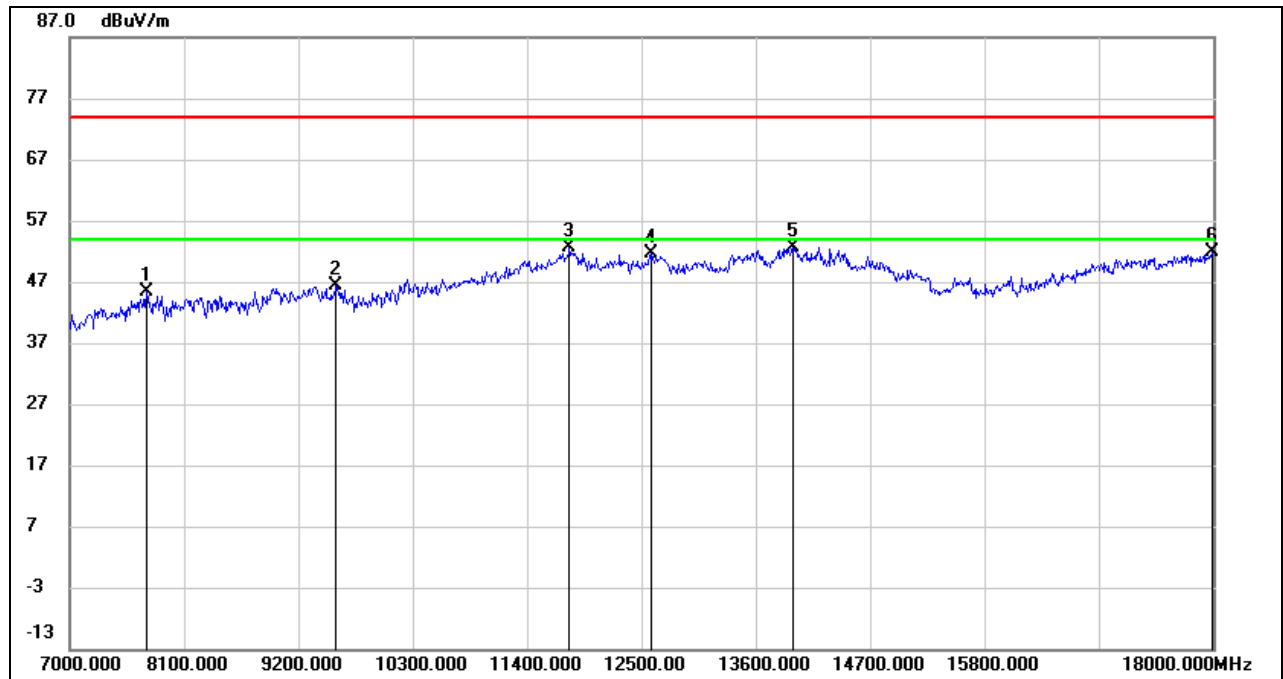


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7759.000	39.05	5.95	45.00	74.00	-29.00	peak
2	9332.000	37.07	9.25	46.32	74.00	-27.68	peak
3	11818.000	34.99	17.20	52.19	74.00	-21.81	peak
4	13578.000	32.32	19.69	52.01	74.00	-21.99	peak
5	13864.000	32.01	20.54	52.55	74.00	-21.45	peak
6	17989.000	28.09	23.65	51.74	74.00	-22.26	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.



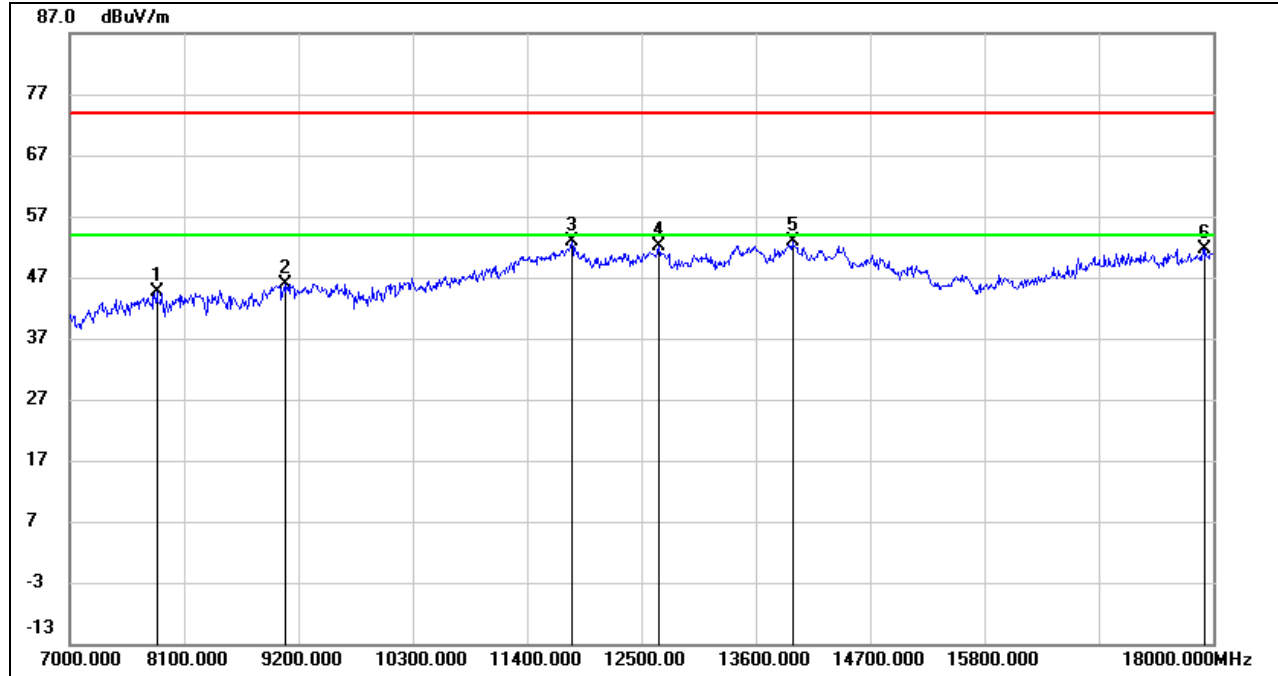
HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7737.000	39.49	5.88	45.37	74.00	-28.63	peak
2	9563.000	36.28	10.05	46.33	74.00	-27.67	peak
3	11807.000	35.51	17.22	52.73	74.00	-21.27	peak
4	12588.000	34.85	16.81	51.66	74.00	-22.34	peak
5	13952.000	31.90	20.61	52.51	74.00	-21.49	peak
6	17989.000	28.15	23.65	51.80	74.00	-22.20	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 (MID CHANNEL, VERTICAL)

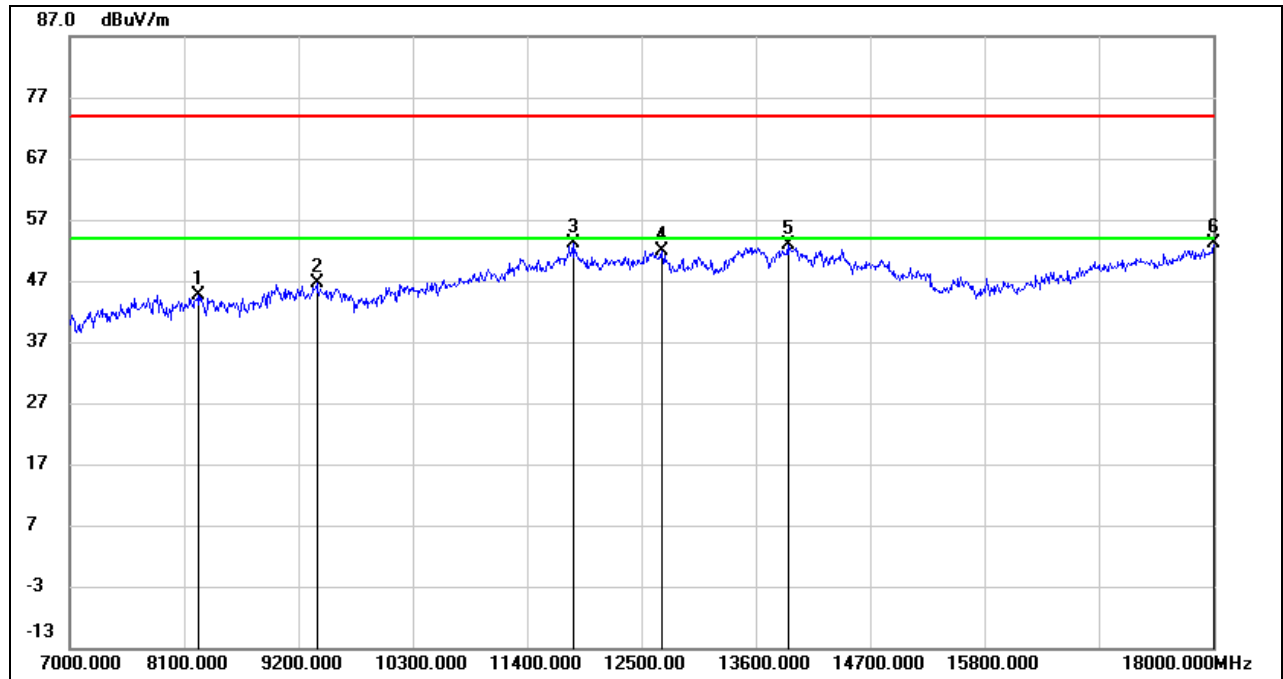


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.71	5.95	44.66	74.00	-29.34	peak
2	9079.000	36.75	9.10	45.85	74.00	-28.15	peak
3	11829.000	35.58	17.20	52.78	74.00	-21.22	peak
4	12665.000	35.04	16.97	52.01	74.00	-21.99	peak
5	13952.000	32.19	20.61	52.80	74.00	-21.20	peak
6	17912.000	28.19	23.46	51.65	74.00	-22.35	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)

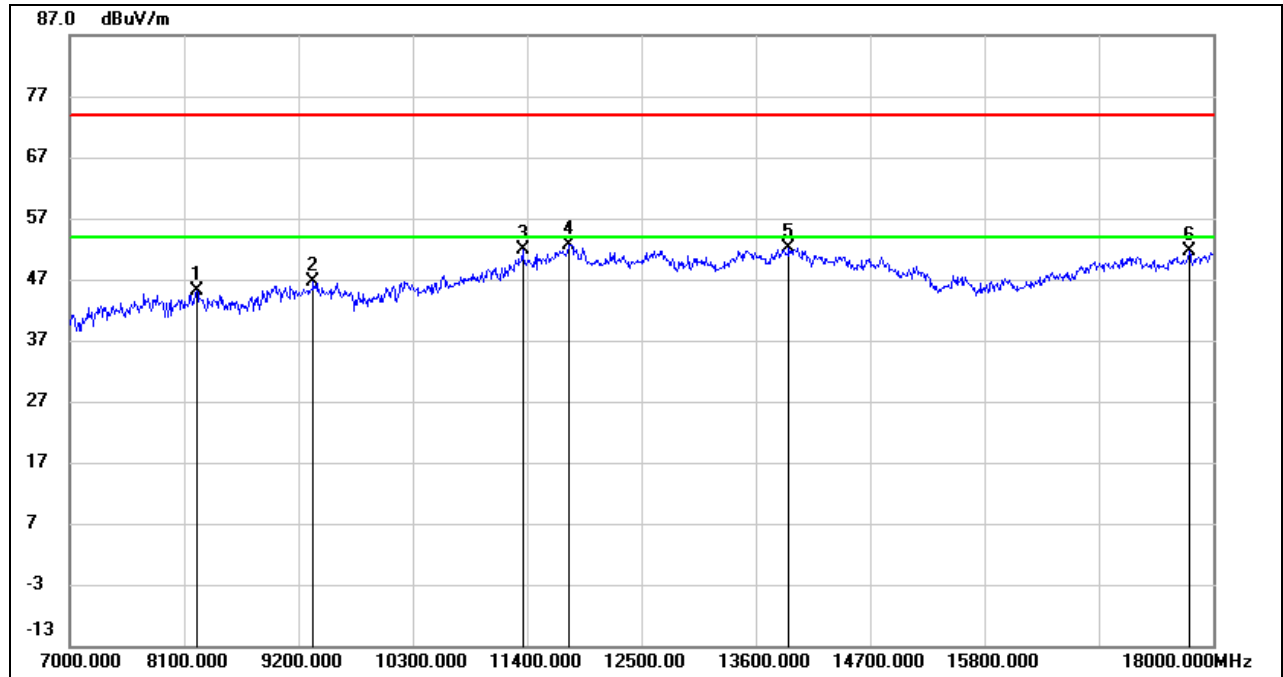


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8232.000	37.43	7.14	44.57	74.00	-29.43	peak
2	9376.000	37.04	9.53	46.57	74.00	-27.43	peak
3	11840.000	36.01	17.20	53.21	74.00	-20.79	peak
4	12698.000	34.90	17.05	51.95	74.00	-22.05	peak
5	13908.000	32.31	20.58	52.89	74.00	-21.11	peak
6	18000.000	29.34	23.68	53.02	74.00	-20.98	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)

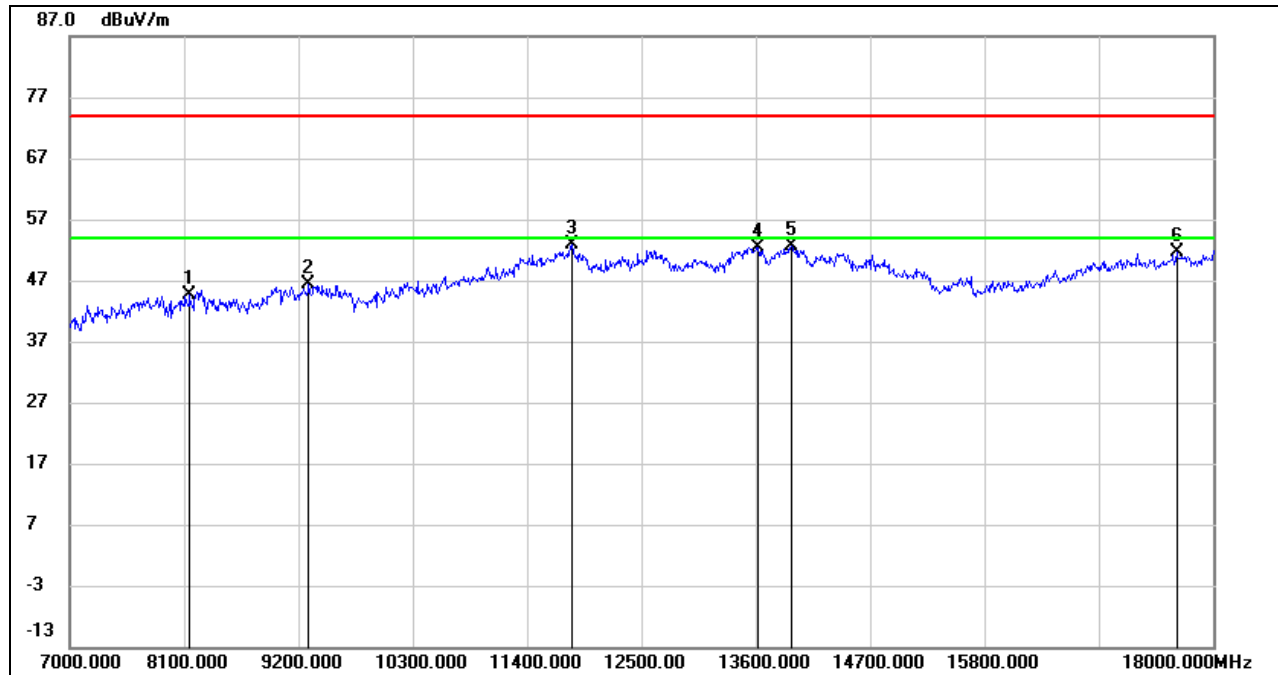


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	37.88	7.16	45.04	74.00	-28.96	peak
2	9343.000	37.28	9.32	46.60	74.00	-27.40	peak
3	11356.000	36.75	15.04	51.79	74.00	-22.21	peak
4	11807.000	35.44	17.22	52.66	74.00	-21.34	peak
5	13919.000	31.67	20.58	52.25	74.00	-21.75	peak
6	17769.000	28.66	22.86	51.52	74.00	-22.48	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.

STRADDLE CHANNEL 142

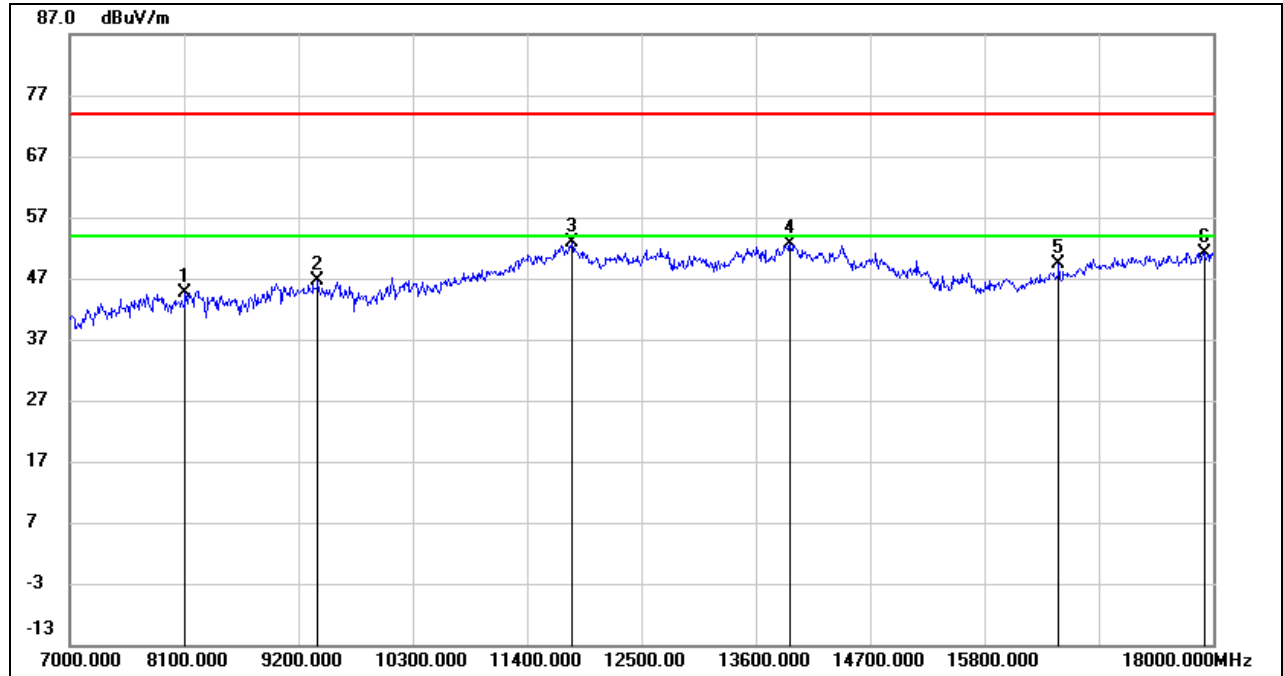
HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8155.000	37.75	6.81	44.56	74.00	-29.44	peak
2	9299.000	37.24	9.05	46.29	74.00	-27.71	peak
3	11829.000	35.69	17.20	52.89	74.00	-21.11	peak
4	13622.000	32.50	19.81	52.31	74.00	-21.69	peak
5	13941.000	32.01	20.60	52.61	74.00	-21.39	peak
6	17648.000	30.09	21.62	51.71	74.00	-22.29	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 (VERTICAL)



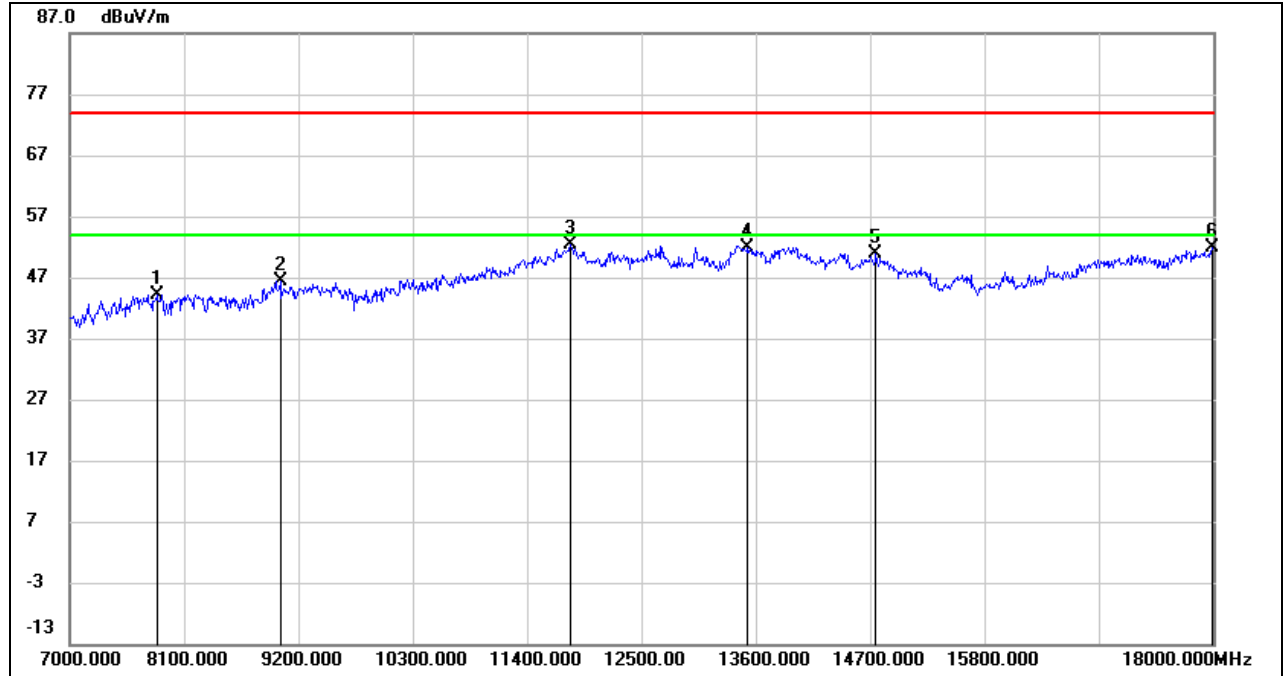
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8111.000	38.25	6.40	44.65	74.00	-29.35	peak
2	9387.000	37.10	9.60	46.70	74.00	-27.30	peak
3	11829.000	35.58	17.20	52.78	74.00	-21.22	peak
4	13930.000	32.06	20.59	52.65	74.00	-21.35	peak
5	16515.000	32.03	17.44	49.47	74.00	-24.53	peak
6	17912.000	27.79	23.46	51.25	74.00	-22.75	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.



UNII-3 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

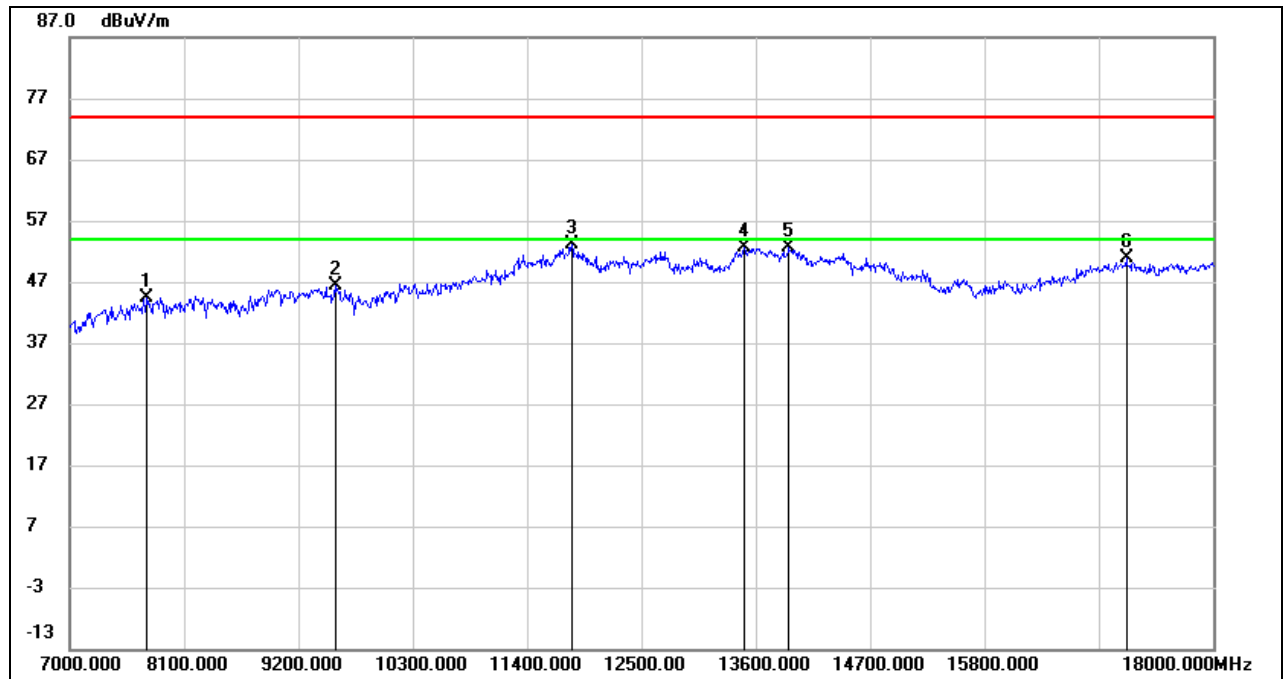


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.24	5.95	44.19	74.00	-29.81	peak
2	9024.000	36.99	9.39	46.38	74.00	-27.62	peak
3	11818.000	35.20	17.20	52.40	74.00	-21.60	peak
4	13523.000	32.33	19.62	51.95	74.00	-22.05	peak
5	14755.000	33.59	17.37	50.96	74.00	-23.04	peak
6	17989.000	28.26	23.65	51.91	74.00	-22.09	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)

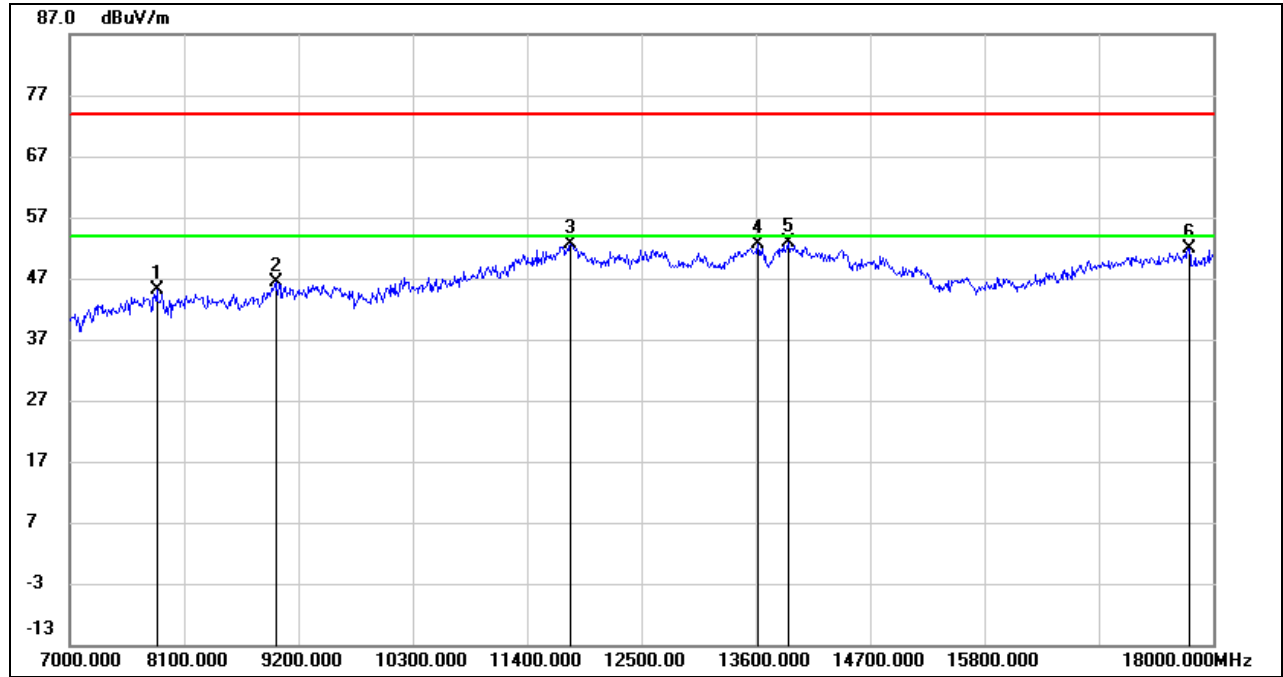


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7737.000	38.60	5.88	44.48	74.00	-29.52	peak
2	9552.000	36.39	10.03	46.42	74.00	-27.58	peak
3	11829.000	35.85	17.20	53.05	74.00	-20.95	peak
4	13490.000	32.97	19.55	52.52	74.00	-21.48	peak
5	13919.000	31.98	20.58	52.56	74.00	-21.44	peak
6	17164.000	30.85	19.93	50.78	74.00	-23.22	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.



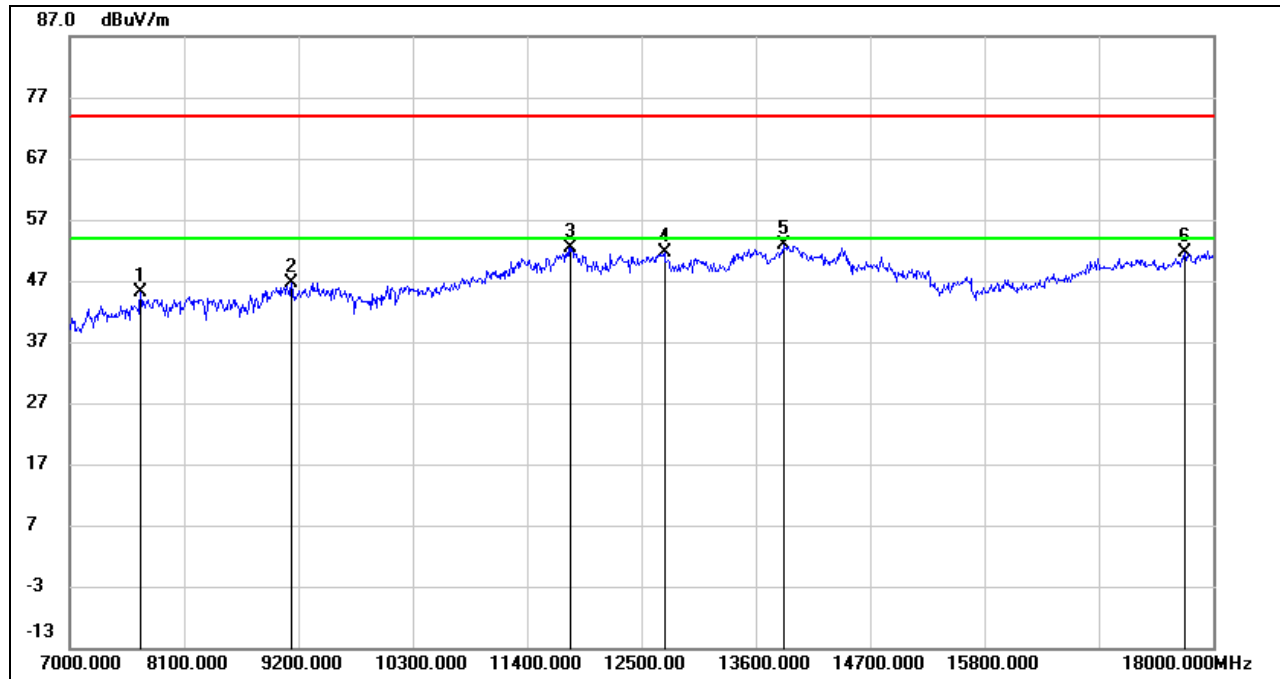
HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	39.14	5.95	45.09	74.00	-28.91	peak
2	8980.000	37.08	9.29	46.37	74.00	-27.63	peak
3	11818.000	35.37	17.20	52.57	74.00	-21.43	peak
4	13622.000	32.81	19.81	52.62	74.00	-21.38	peak
5	13919.000	32.33	20.58	52.91	74.00	-21.09	peak
6	17769.000	29.06	22.86	51.92	74.00	-22.08	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)



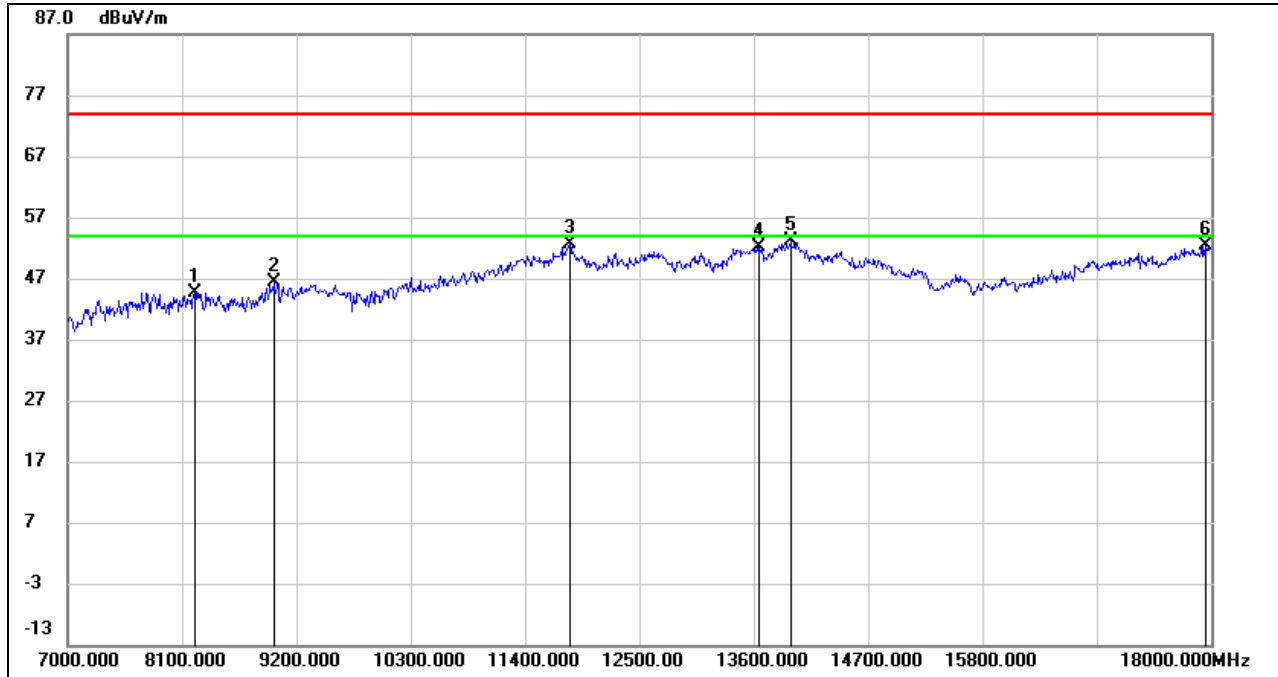
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7682.000	39.40	5.70	45.10	74.00	-28.90	peak
2	9134.000	37.82	8.78	46.60	74.00	-27.40	peak
3	11818.000	35.28	17.20	52.48	74.00	-21.52	peak
4	12720.000	34.60	17.09	51.69	74.00	-22.31	peak
5	13864.000	32.24	20.54	52.78	74.00	-21.22	peak
6	17725.000	29.23	22.41	51.64	74.00	-22.36	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)

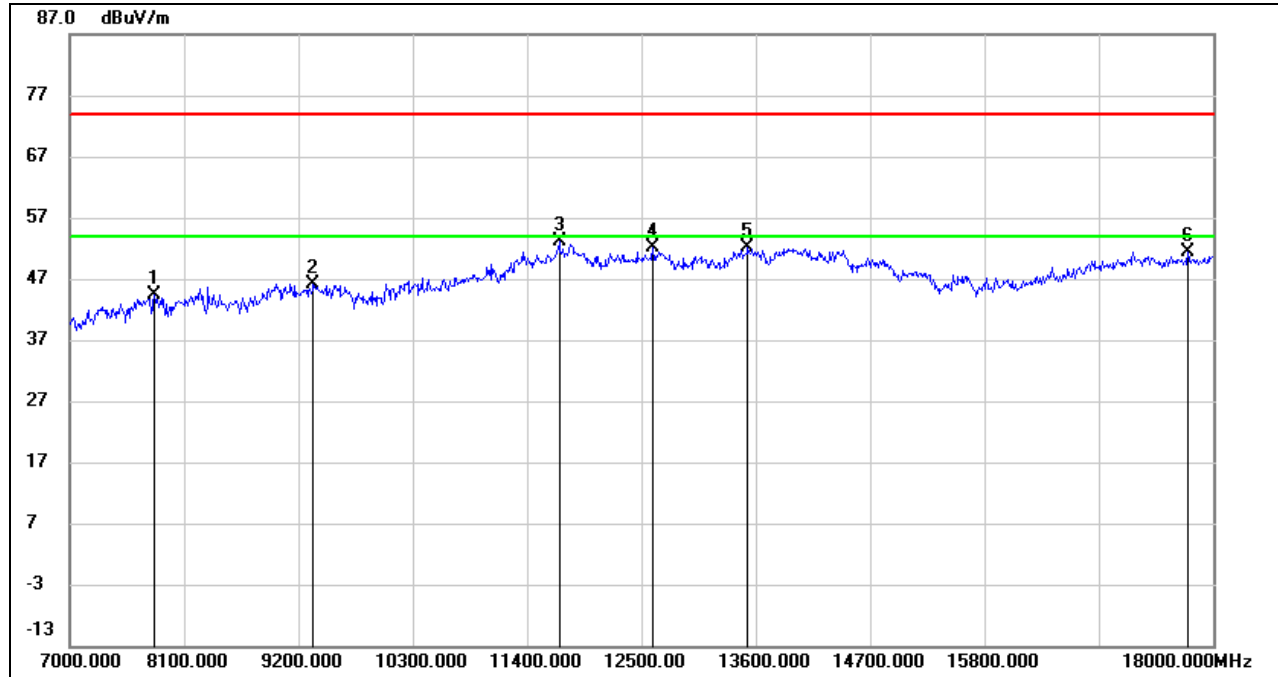


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8221.000	37.59	7.16	44.75	74.00	-29.25	peak
2	8980.000	37.00	9.29	46.29	74.00	-27.71	peak
3	11829.000	35.52	17.20	52.72	74.00	-21.28	peak
4	13655.000	32.17	19.94	52.11	74.00	-21.89	peak
5	13952.000	32.42	20.61	53.03	74.00	-20.97	peak
6	17945.000	28.85	23.55	52.40	74.00	-21.60	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)



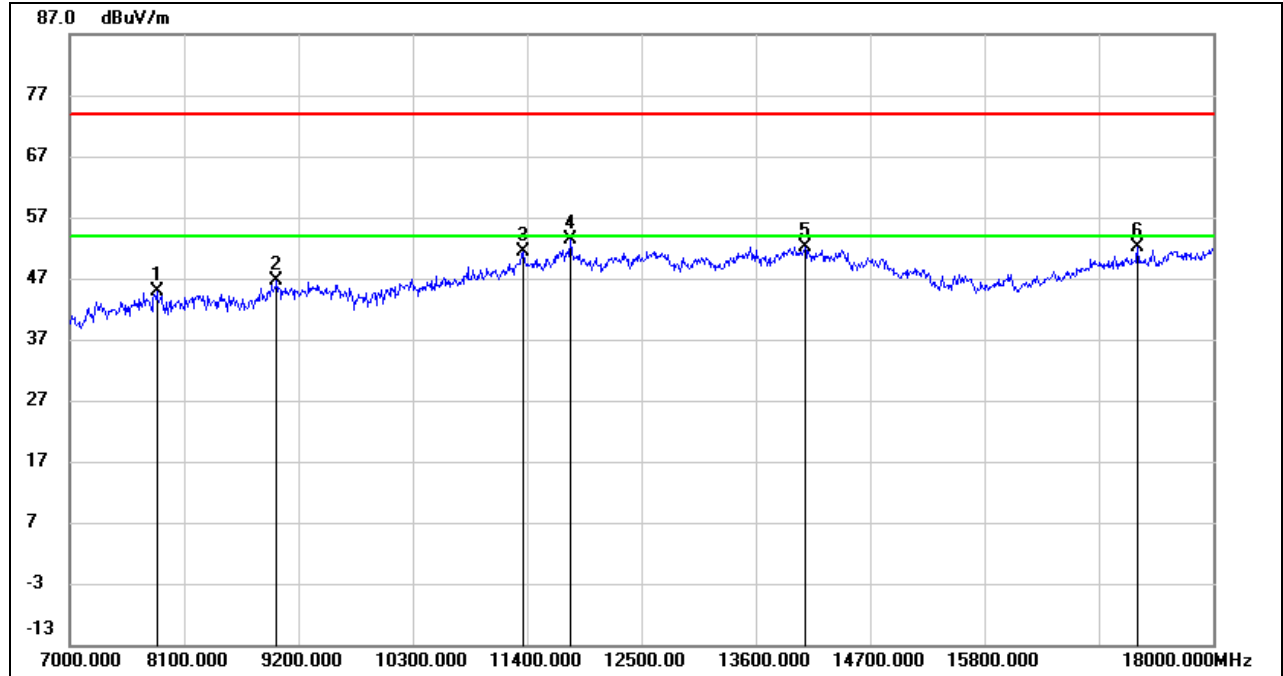
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	38.28	6.03	44.31	74.00	-29.69	peak
2	9343.000	36.87	9.32	46.19	74.00	-27.81	peak
3	11708.000	36.58	16.64	53.22	74.00	-20.78	peak
4	12610.000	35.39	16.83	52.22	74.00	-21.78	peak
5	13523.000	32.53	19.62	52.15	74.00	-21.85	peak
6	17758.000	28.63	22.75	51.38	74.00	-22.62	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: $VBW=1/T_{on}$, where: T_{on} 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)

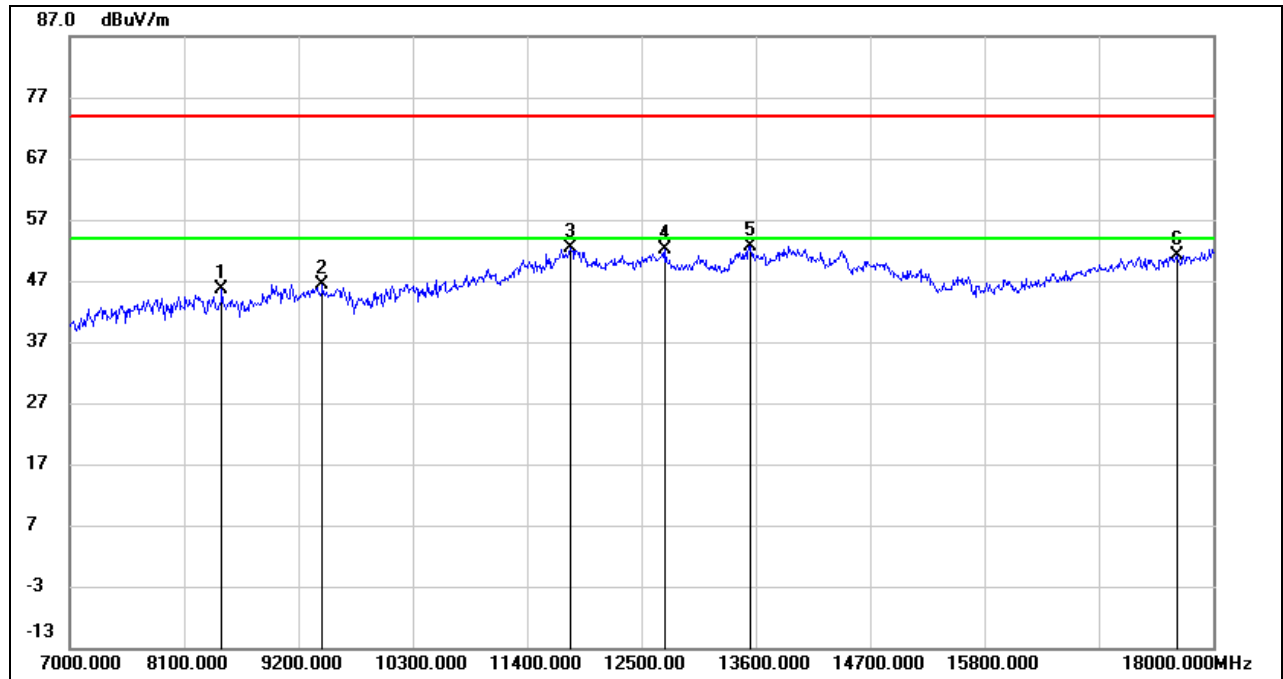


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7836.000	38.90	5.95	44.85	74.00	-29.15	peak
2	8991.000	37.25	9.42	46.67	74.00	-27.33	peak
3	11356.000	36.24	15.04	51.28	74.00	-22.72	peak
4	11818.000	36.18	17.20	53.38	74.00	-20.62	peak
5	14073.000	31.92	20.28	52.20	74.00	-21.80	peak
6	17274.000	31.91	20.17	52.08	74.00	-21.92	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)



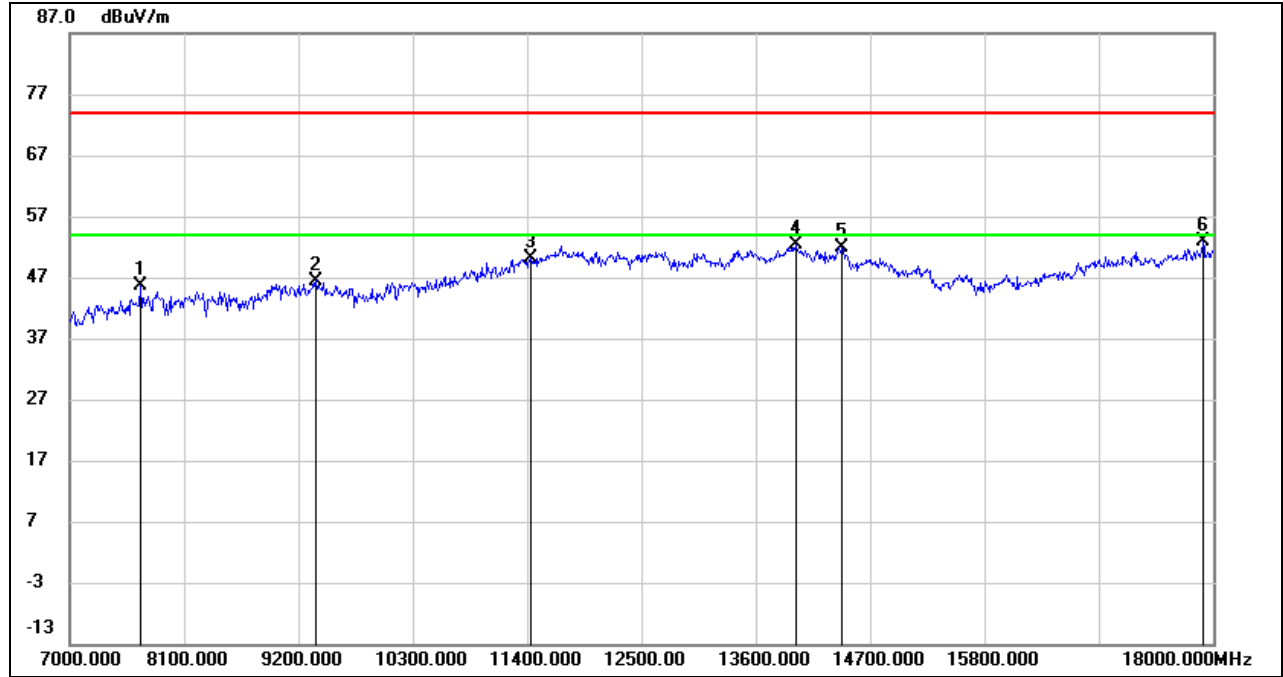
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8463.000	39.08	6.65	45.73	74.00	-28.27	peak
2	9431.000	36.69	9.76	46.45	74.00	-27.55	peak
3	11818.000	35.14	17.20	52.34	74.00	-21.66	peak
4	12731.000	34.88	17.13	52.01	74.00	-21.99	peak
5	13545.000	33.10	19.64	52.74	74.00	-21.26	peak
6	17648.000	29.58	21.62	51.20	74.00	-22.80	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)

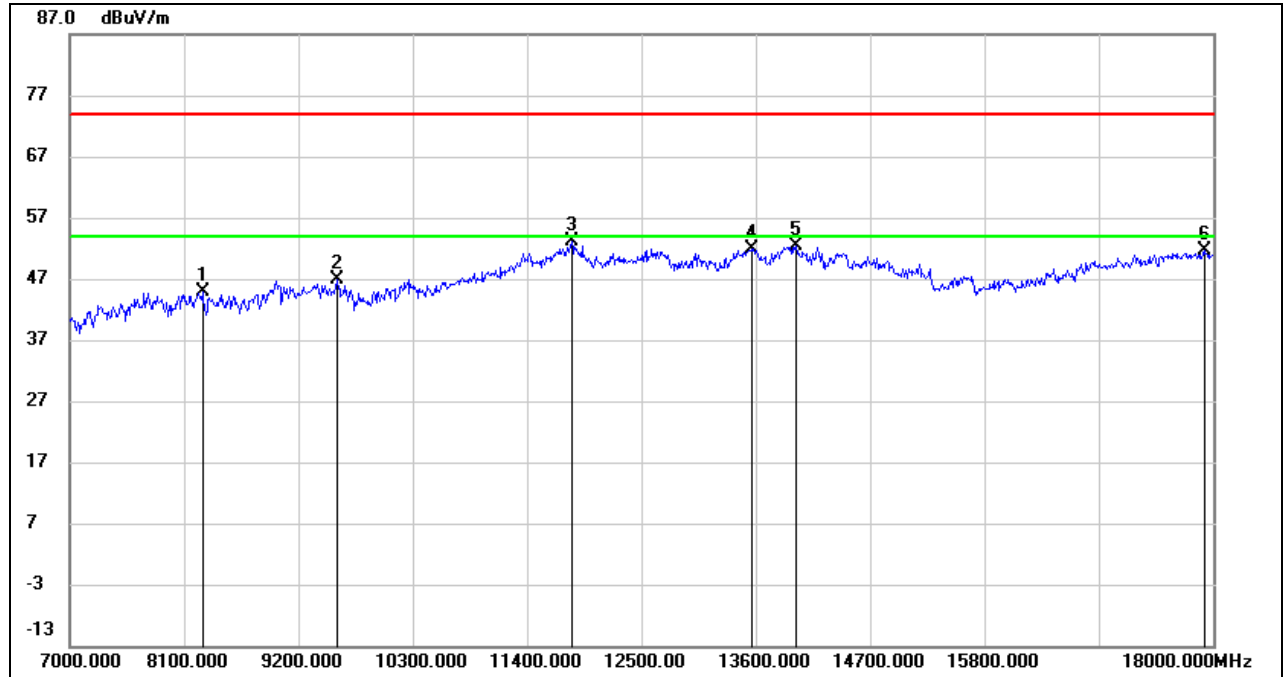


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7682.000	39.85	5.70	45.55	74.00	-28.45	peak
2	9365.000	37.04	9.46	46.50	74.00	-27.50	peak
3	11433.000	34.59	15.43	50.02	74.00	-23.98	peak
4	13985.000	31.87	20.63	52.50	74.00	-21.50	peak
5	14425.000	33.11	18.79	51.90	74.00	-22.10	peak
6	17901.000	29.36	23.44	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 (LOW CHANNEL, VERTICAL)

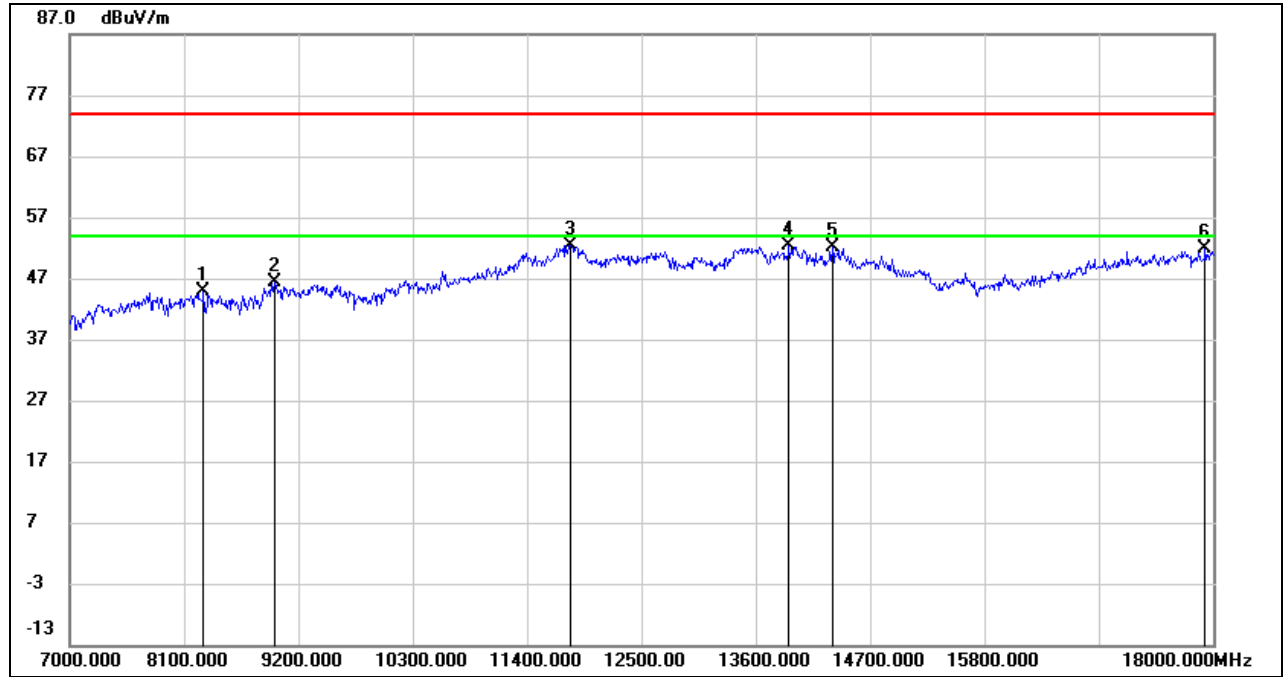


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8276.000	37.82	7.00	44.82	74.00	-29.18	peak
2	9574.000	36.83	10.07	46.90	74.00	-27.10	peak
3	11829.000	35.96	17.20	53.16	74.00	-20.84	peak
4	13567.000	32.32	19.67	51.99	74.00	-22.01	peak
5	13985.000	31.66	20.63	52.29	74.00	-21.71	peak
6	17912.000	28.15	23.46	51.61	74.00	-22.39	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)

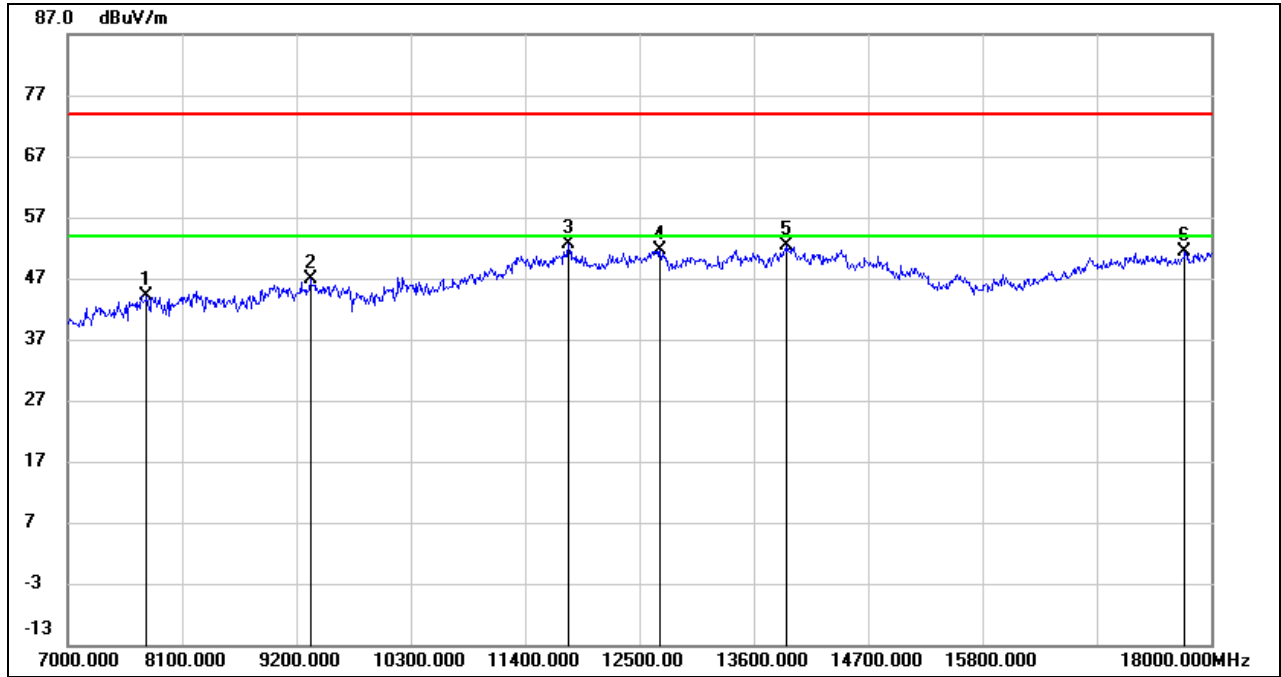


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8287.000	37.79	6.98	44.77	74.00	-29.23	peak
2	8969.000	37.15	9.16	46.31	74.00	-27.69	peak
3	11818.000	35.18	17.20	52.38	74.00	-21.62	peak
4	13919.000	31.83	20.58	52.41	74.00	-21.59	peak
5	14337.000	32.96	19.17	52.13	74.00	-21.87	peak
6	17923.000	28.29	23.50	51.79	74.00	-22.21	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: $VBW=1/T_{on}$, where: T_{on} 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)

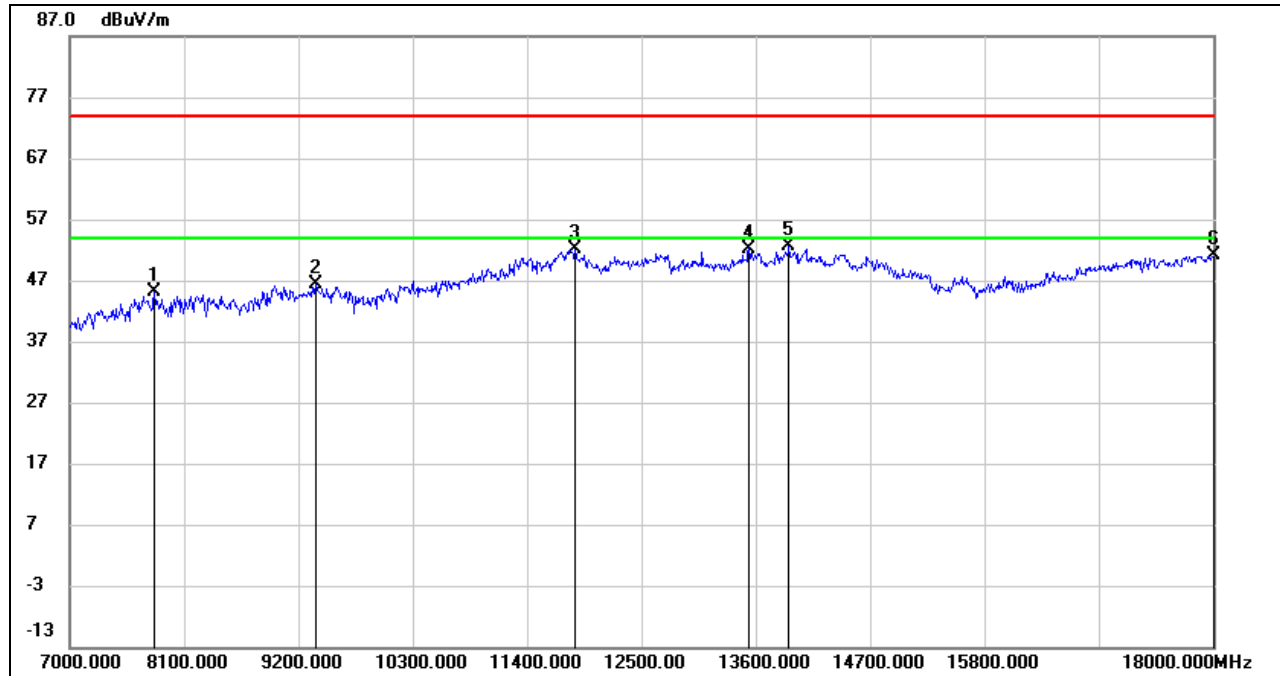


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7759.000	38.29	5.95	44.24	74.00	-29.76	peak
2	9332.000	37.61	9.25	46.86	74.00	-27.14	peak
3	11818.000	35.40	17.20	52.60	74.00	-21.40	peak
4	12698.000	34.64	17.05	51.69	74.00	-22.31	peak
5	13919.000	31.80	20.58	52.38	74.00	-21.62	peak
6	17747.000	28.71	22.64	51.35	74.00	-22.65	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. AVG: $VBW=1/T_{on}$, where: T_{on} 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)

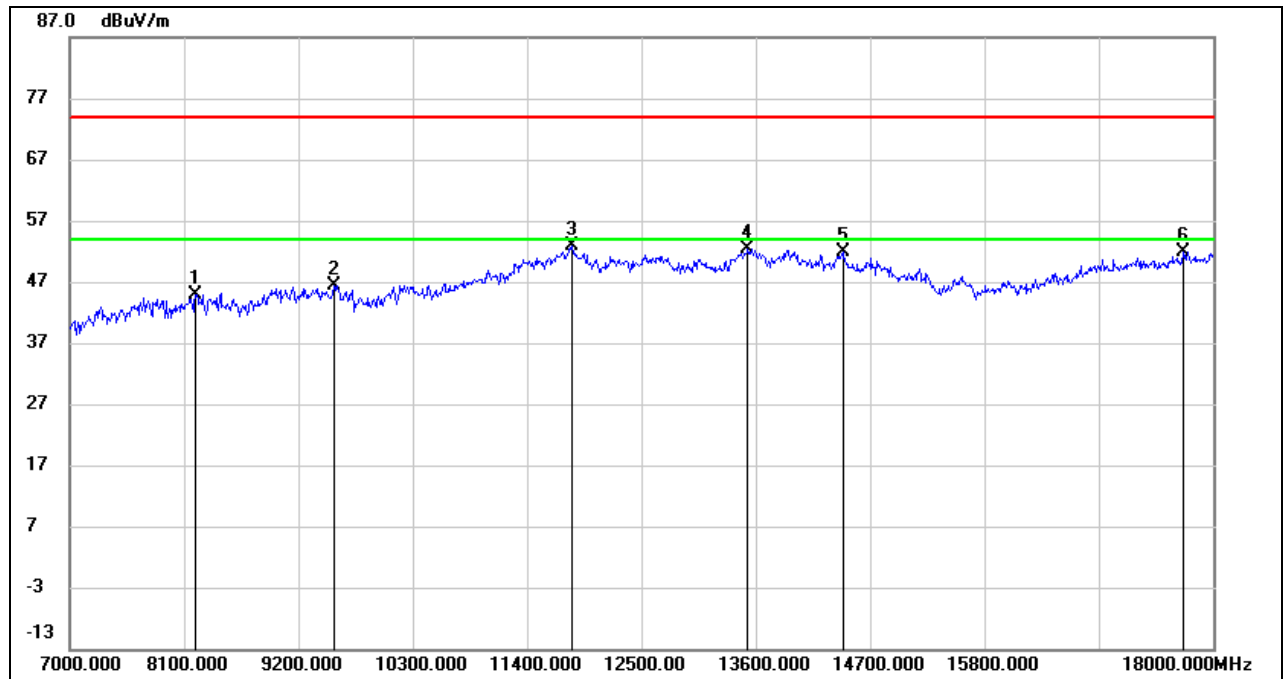


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7814.000	39.19	6.03	45.22	74.00	-28.78	peak
2	9365.000	36.99	9.46	46.45	74.00	-27.55	peak
3	11862.000	34.87	17.19	52.06	74.00	-21.94	peak
4	13534.000	32.62	19.63	52.25	74.00	-21.75	peak
5	13919.000	32.12	20.58	52.70	74.00	-21.30	peak
6	18000.000	27.52	23.68	51.20	74.00	-22.80	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: $VBW=1/T_{on}$, where: T_{on} 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)



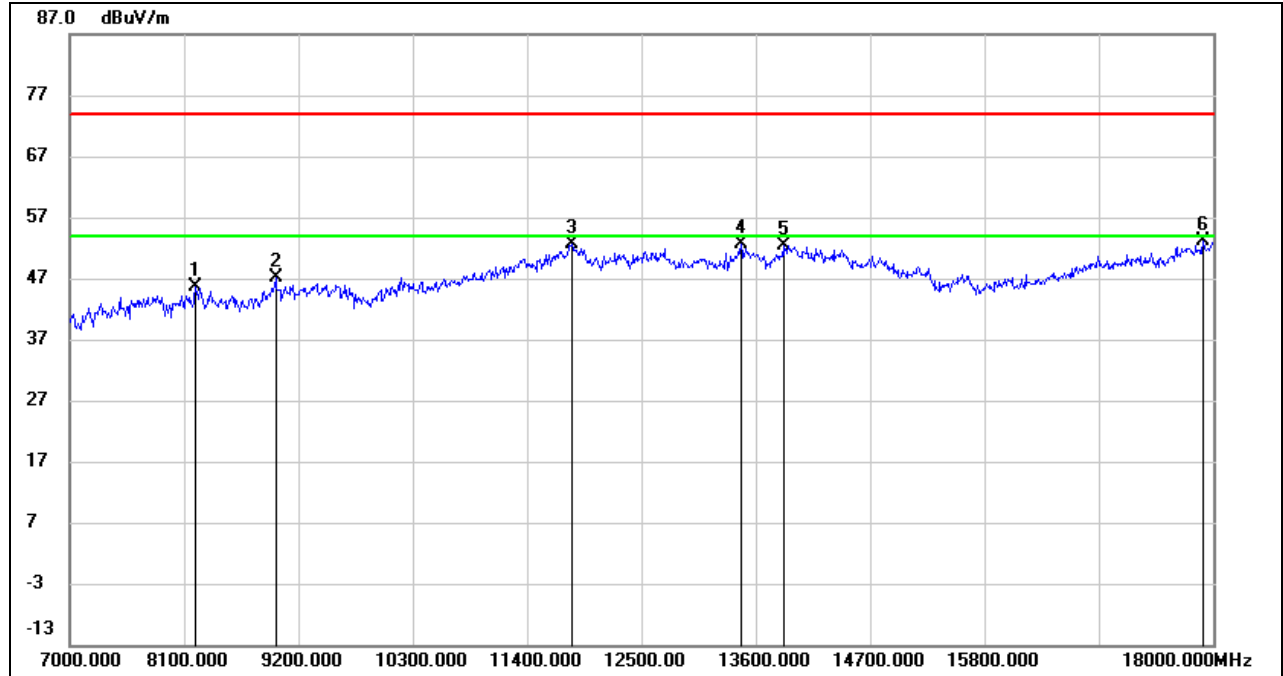
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8210.000	37.72	7.20	44.92	74.00	-29.08	peak
2	9541.000	36.40	10.01	46.41	74.00	-27.59	peak
3	11829.000	35.68	17.20	52.88	74.00	-21.12	peak
4	13523.000	32.72	19.62	52.34	74.00	-21.66	peak
5	14436.000	33.15	18.74	51.89	74.00	-22.11	peak
6	17714.000	29.66	22.29	51.95	74.00	-22.05	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.



UNII-3 BAND

HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

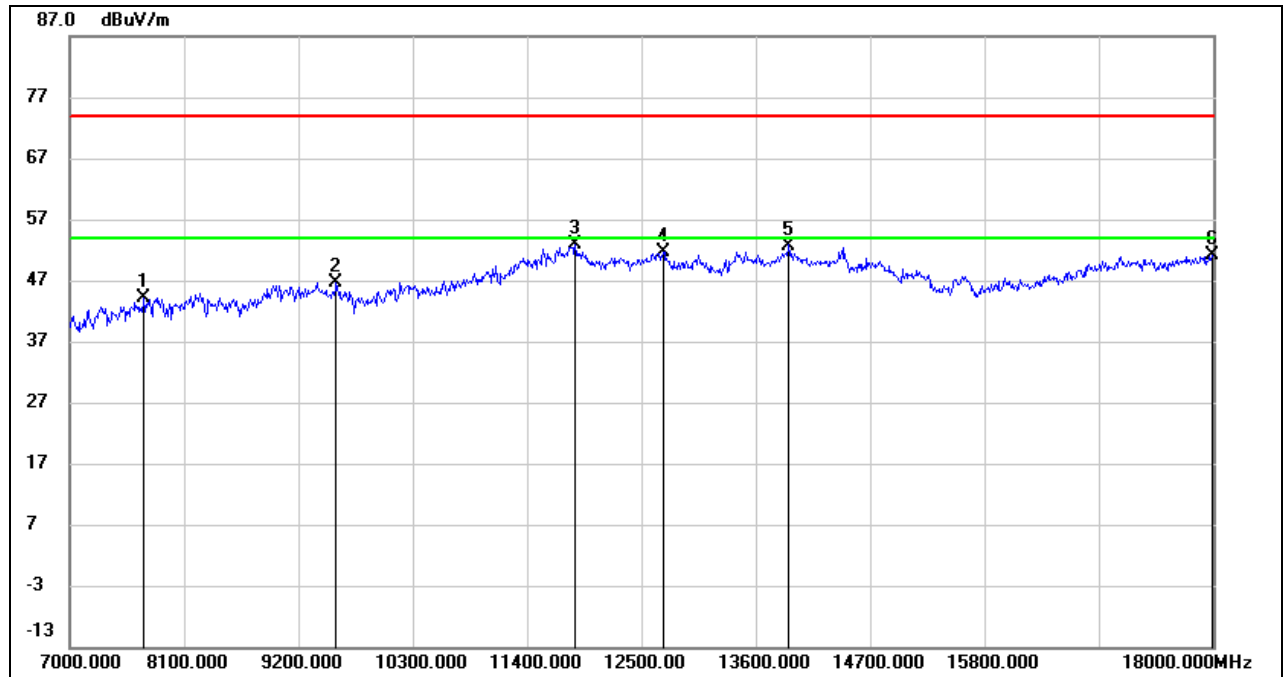


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	8210.000	38.46	7.20	45.66	74.00	-28.34	peak
2	8980.000	37.94	9.29	47.23	74.00	-26.77	peak
3	11829.000	35.40	17.20	52.60	74.00	-21.40	peak
4	13457.000	33.15	19.42	52.57	74.00	-21.43	peak
5	13864.000	31.91	20.54	52.45	74.00	-21.55	peak
6	17901.000	29.61	23.44	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. 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)



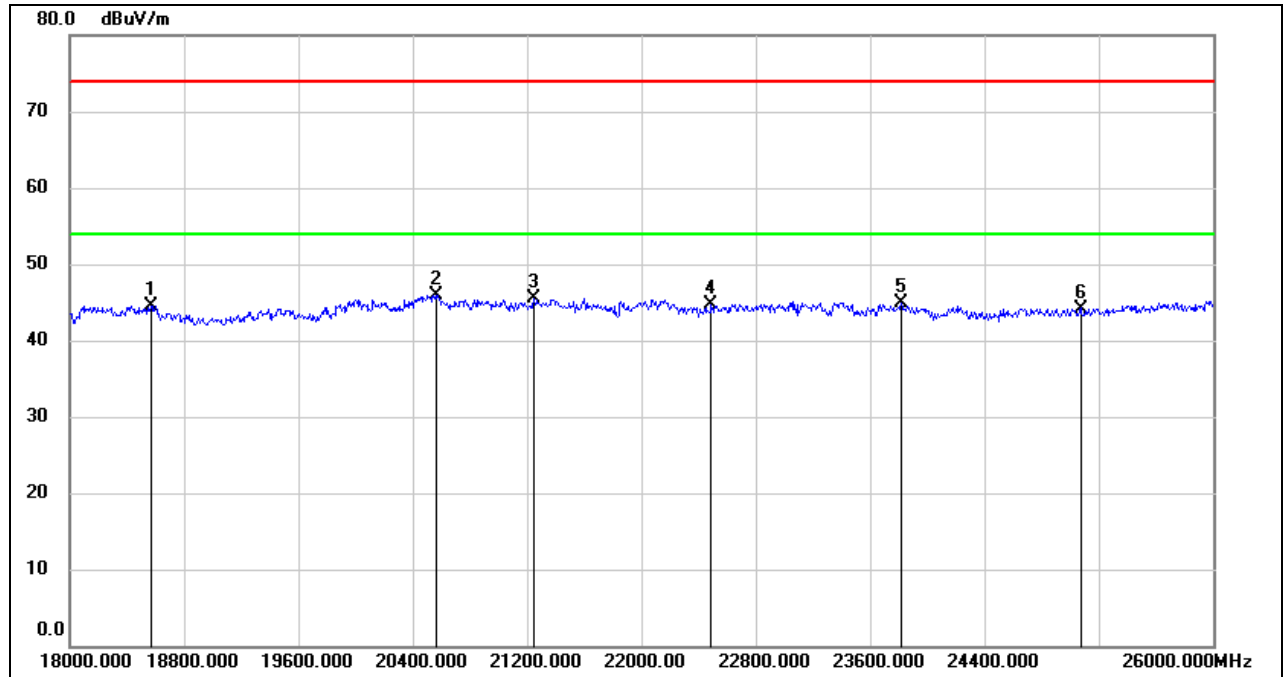
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	7715.000	38.27	5.81	44.08	74.00	-29.92	peak
2	9563.000	36.64	10.05	46.69	74.00	-27.31	peak
3	11862.000	35.66	17.19	52.85	74.00	-21.15	peak
4	12709.000	34.50	17.07	51.57	74.00	-22.43	peak
5	13919.000	32.17	20.58	52.75	74.00	-21.25	peak
6	17989.000	27.39	23.65	51.04	74.00	-22.96	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: $VBW=1/T_{on}$, where: T_{on} 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 HT20 MODE

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)

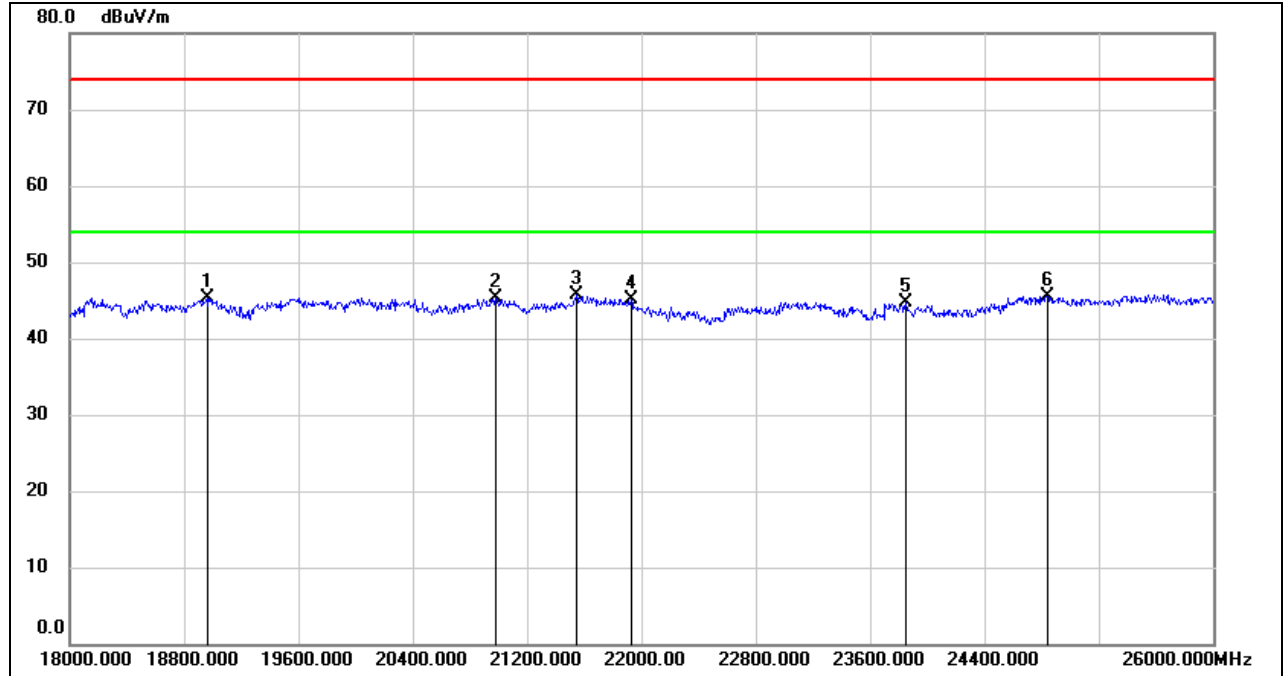


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18568.000	49.80	-5.30	44.50	74.00	-29.50	peak
2	20560.000	51.23	-5.30	45.93	74.00	-28.07	peak
3	21248.000	50.29	-4.77	45.52	74.00	-28.48	peak
4	22488.000	48.58	-3.90	44.68	74.00	-29.32	peak
5	23816.000	47.89	-3.08	44.81	74.00	-29.19	peak
6	25072.000	46.17	-1.97	44.20	74.00	-29.80	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-3 BAND MID CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	18960.000	50.51	-5.25	45.26	74.00	-28.74	peak
2	20976.000	50.14	-4.91	45.23	74.00	-28.77	peak
3	21544.000	50.26	-4.63	45.63	74.00	-28.37	peak
4	21928.000	49.55	-4.43	45.12	74.00	-28.88	peak
5	23848.000	47.68	-3.03	44.65	74.00	-29.35	peak
6	24840.000	47.70	-2.24	45.46	74.00	-28.54	peak

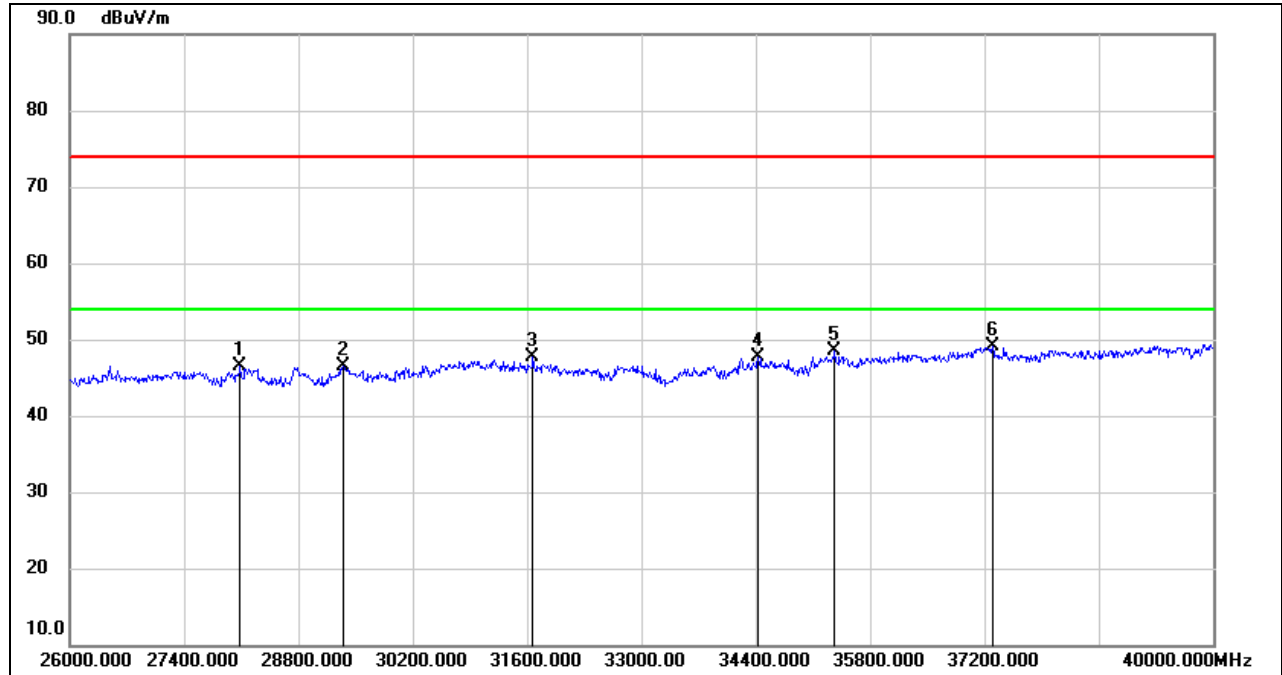
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

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 HT20 MODE

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)

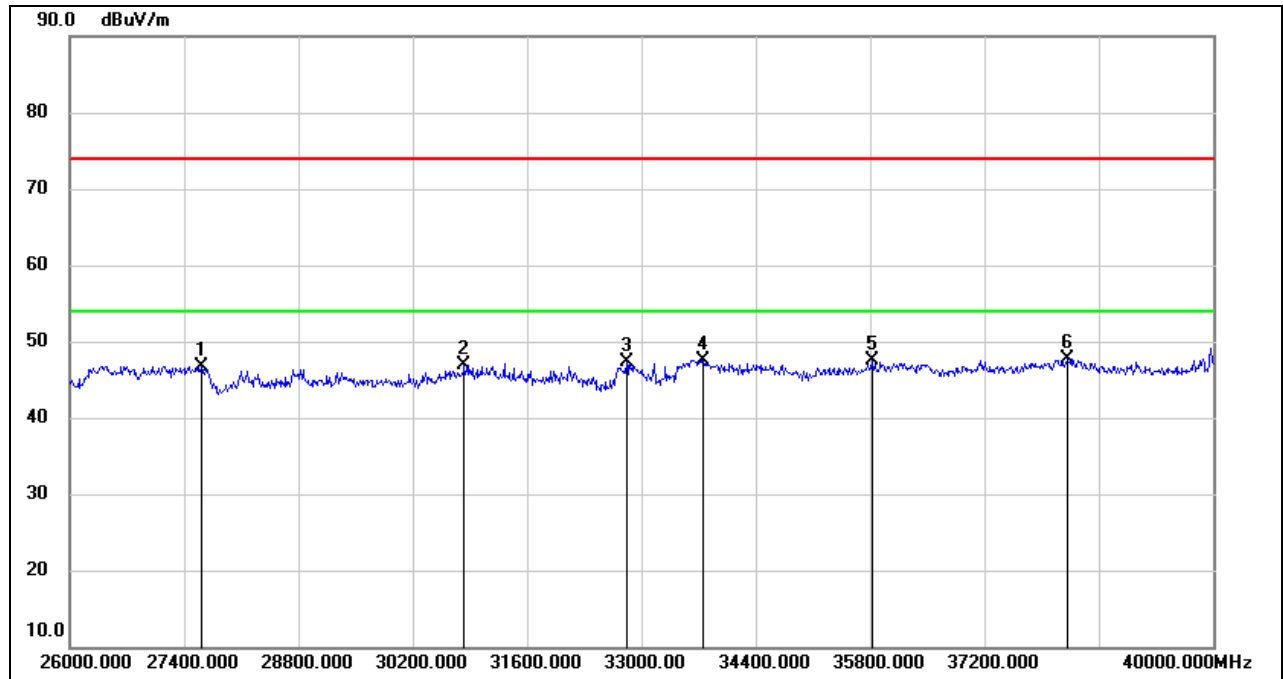


No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	28086.000	49.91	-3.49	46.42	74.00	-27.58	peak
2	29346.000	47.38	-0.91	46.47	74.00	-27.53	peak
3	31670.000	48.86	-1.21	47.65	74.00	-26.35	peak
4	34428.000	46.70	0.99	47.69	74.00	-26.31	peak
5	35366.000	45.90	2.59	48.49	74.00	-25.51	peak
6	37298.000	45.92	3.15	49.07	74.00	-24.93	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.



SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	27610.000	50.12	-3.47	46.65	74.00	-27.35	peak
2	30830.000	48.02	-1.03	46.99	74.00	-27.01	peak
3	32818.000	48.31	-1.08	47.23	74.00	-26.77	peak
4	33756.000	47.24	0.33	47.57	74.00	-26.43	peak
5	35828.000	43.75	3.67	47.42	74.00	-26.58	peak
6	38208.000	43.93	3.76	47.69	74.00	-26.31	peak

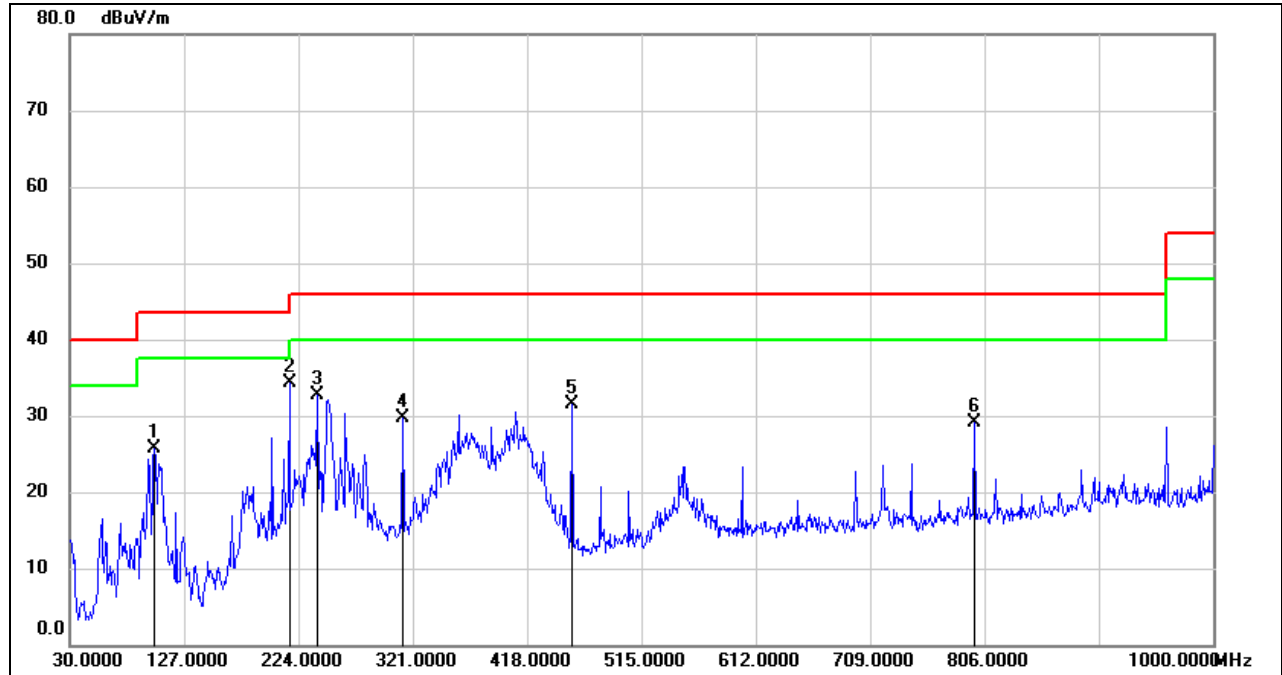
- Note: 1. Measurement = Reading Level + Correct Factor.
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
 3. Peak: Peak detector.

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 HT20 MODE

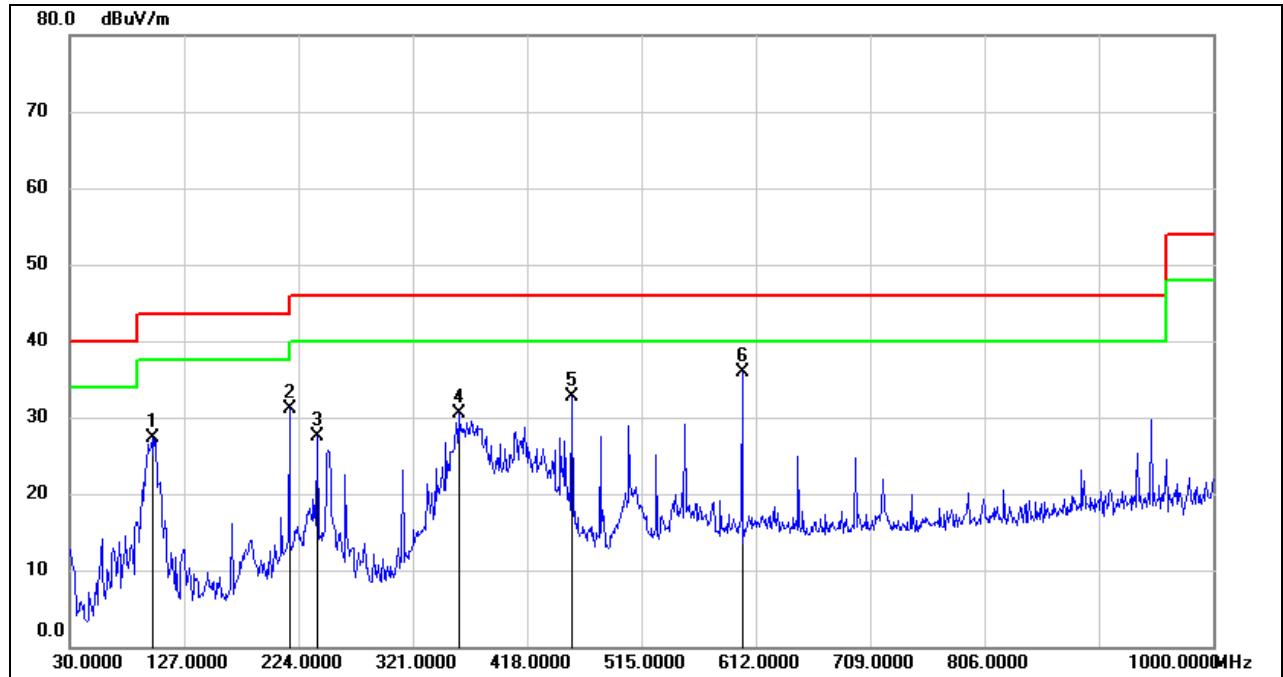
SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, HORIZONTAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	101.7800	46.67	-21.00	25.67	43.50	-17.83	QP
2	216.2400	52.18	-17.84	34.34	46.00	-11.66	QP
3	240.4900	51.86	-19.17	32.69	46.00	-13.31	QP
4	312.2700	44.64	-15.01	29.63	46.00	-16.37	QP
5	455.8300	43.83	-12.27	31.56	46.00	-14.44	QP
6	797.2700	36.52	-7.35	29.17	46.00	-16.83	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-3 BAND MID CHANNEL, VERTICAL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	99.8399	48.42	-21.15	27.27	43.50	-16.23	QP
2	216.2400	48.93	-17.84	31.09	46.00	-14.91	QP
3	239.5200	46.70	-19.16	27.54	46.00	-18.46	QP
4	359.8000	44.59	-14.10	30.49	46.00	-15.51	QP
5	455.8300	45.03	-12.27	32.76	46.00	-13.24	QP
6	600.3600	45.50	-9.54	35.96	46.00	-10.04	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

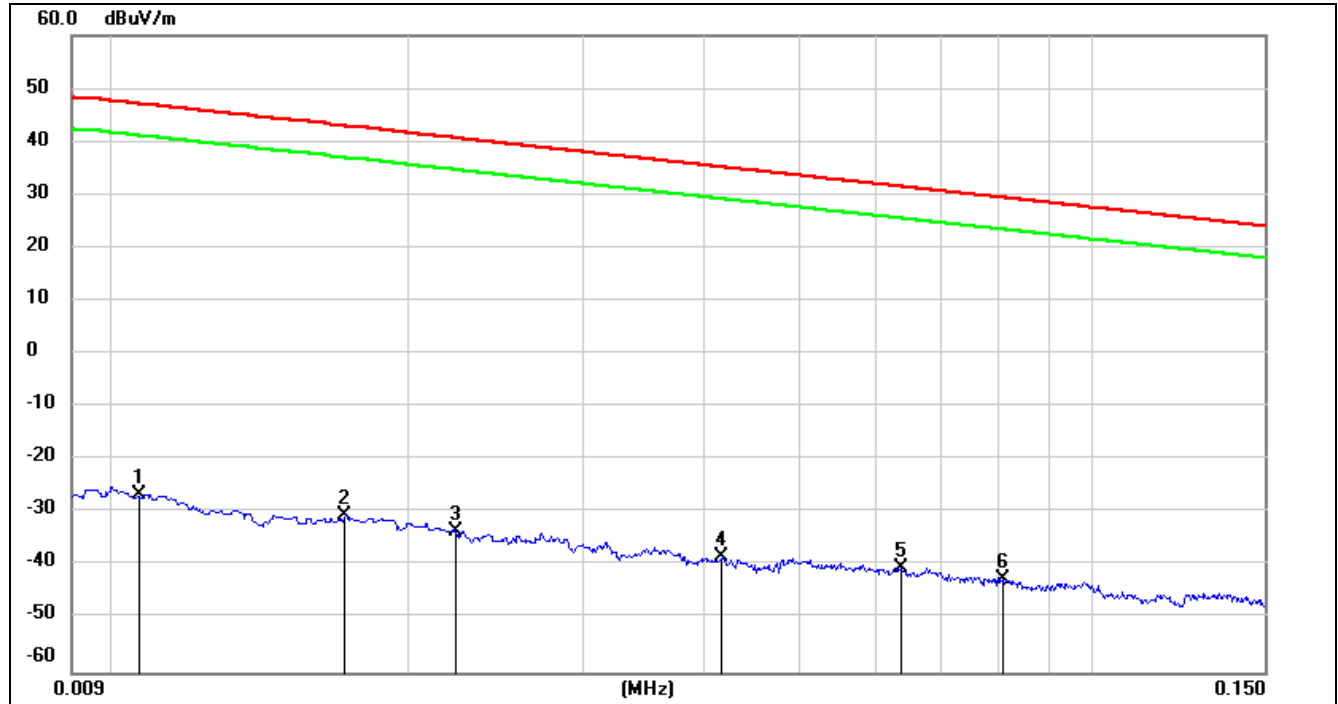
Note: All the modes and antennas had been tested, but only the worst data was recorded in the report.

8.7. SPURIOUS EMISSIONS BELOW 30 MHz

8.7.1. 802.11n HT20 MODE

SPURIOUS EMISSIONS (UNII-3 BAND MID CHANNEL, LOOP ANTENNA FACE ON TO THE EUT, WORST-CASE CONFIGURATION)

9 kHz~ 150 kHz



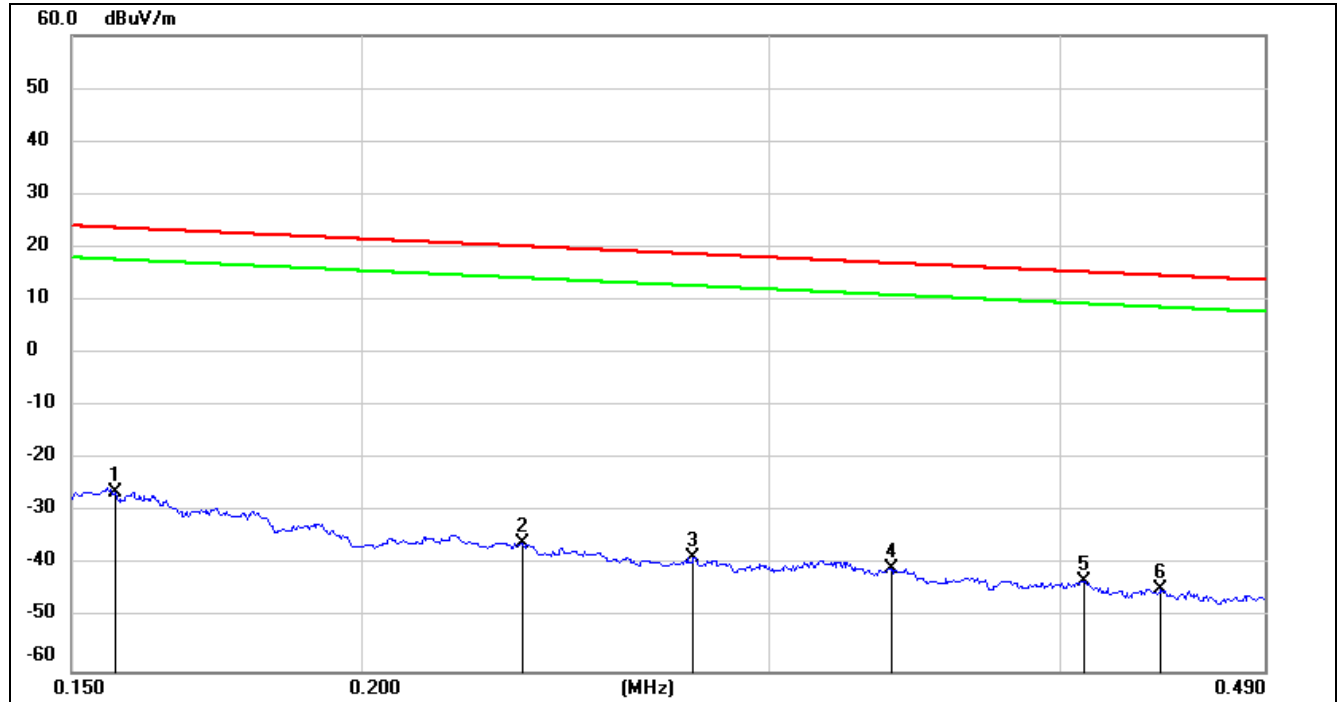
No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.0106	74.88	-101.39	-26.51	47.09	-73.60	peak
2	0.0171	70.88	-101.36	-30.48	42.94	-73.42	peak
3	0.0223	67.79	-101.35	-33.56	40.63	-74.19	peak
4	0.0417	63.08	-101.44	-38.36	35.2	-73.56	peak
5	0.0636	61.31	-101.54	-40.23	31.53	-71.76	peak
6	0.0806	59.18	-101.63	-42.45	29.47	-71.92	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.

150 kHz ~ 490 kHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.1567	75.45	-101.65	-26.2	23.7	-49.90	peak
2	0.2346	65.85	-101.77	-35.92	20.19	-56.11	peak
3	0.2782	63.29	-101.83	-38.54	18.71	-57.25	peak
4	0.3382	61.23	-101.90	-40.67	17.02	-57.69	peak
5	0.4097	59.02	-101.97	-42.95	15.35	-58.30	peak
6	0.4420	57.33	-102.01	-44.68	14.69	-59.37	peak

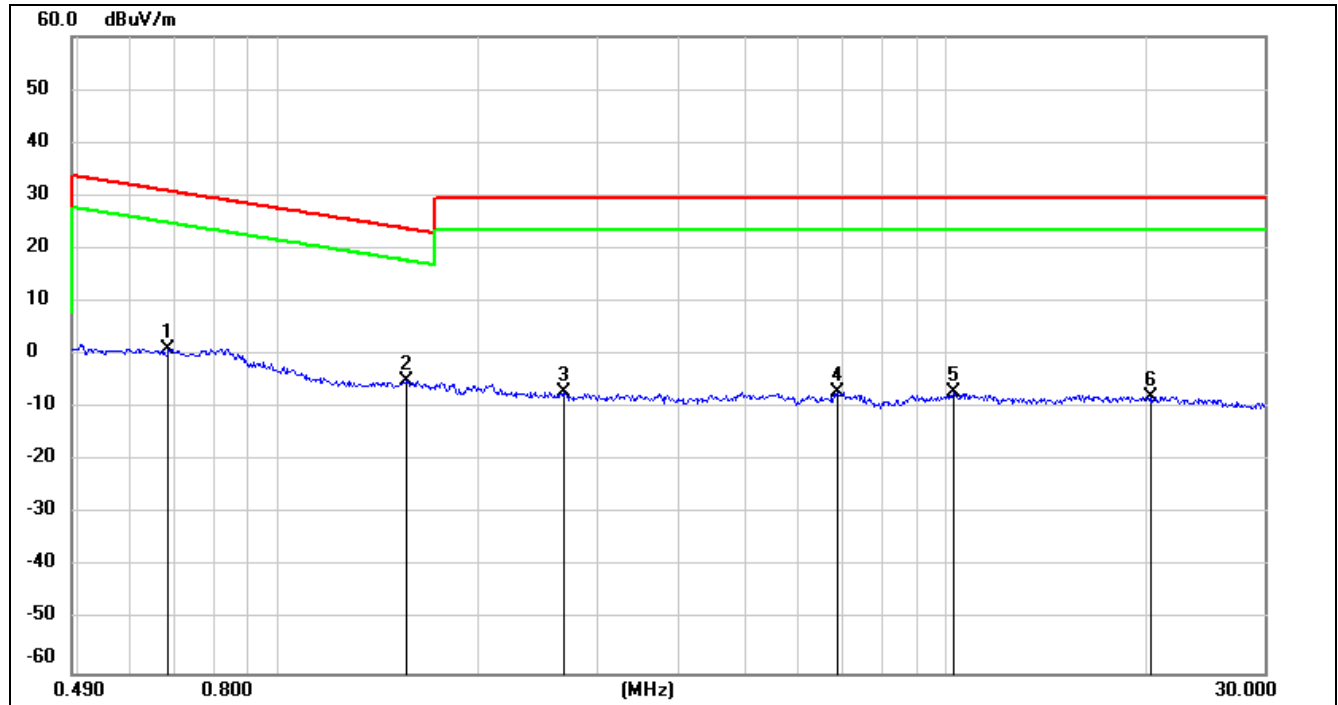
Note: 1. Measurement = Reading Level + Correct Factor.

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.



490 kHz ~ 30 MHz



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	FCC Result (dBuV/m)	FCC Limit (dBuV/m)	Margin (dB)	Remark
1	0.6834	63.21	-62.11	1.1	30.91	-29.81	peak
2	1.5564	57.18	-62.02	-4.84	23.76	-28.60	peak
3	2.6737	54.64	-61.65	-7.01	29.54	-36.55	peak
4	6.8936	54.09	-61.22	-7.13	29.54	-36.67	peak
5	10.2576	53.64	-60.81	-7.17	29.54	-36.71	peak
6	20.3501	52.84	-60.80	-7.96	29.54	-37.50	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.

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

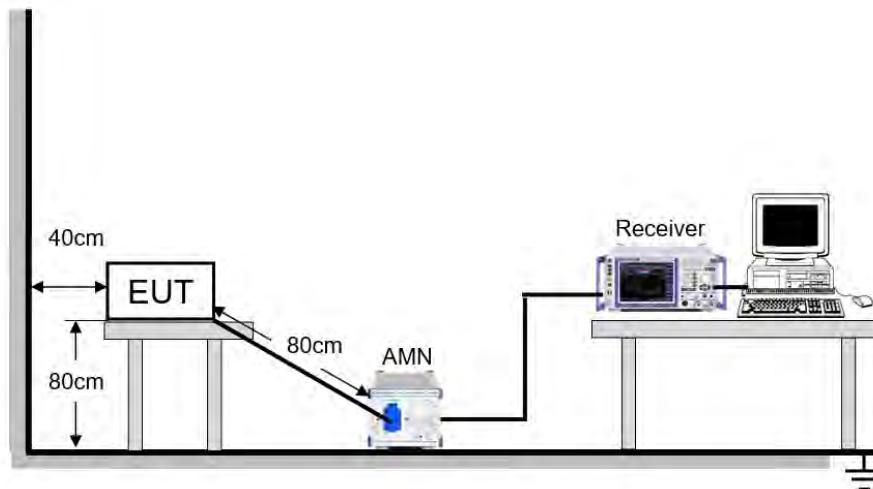
LIMITS

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

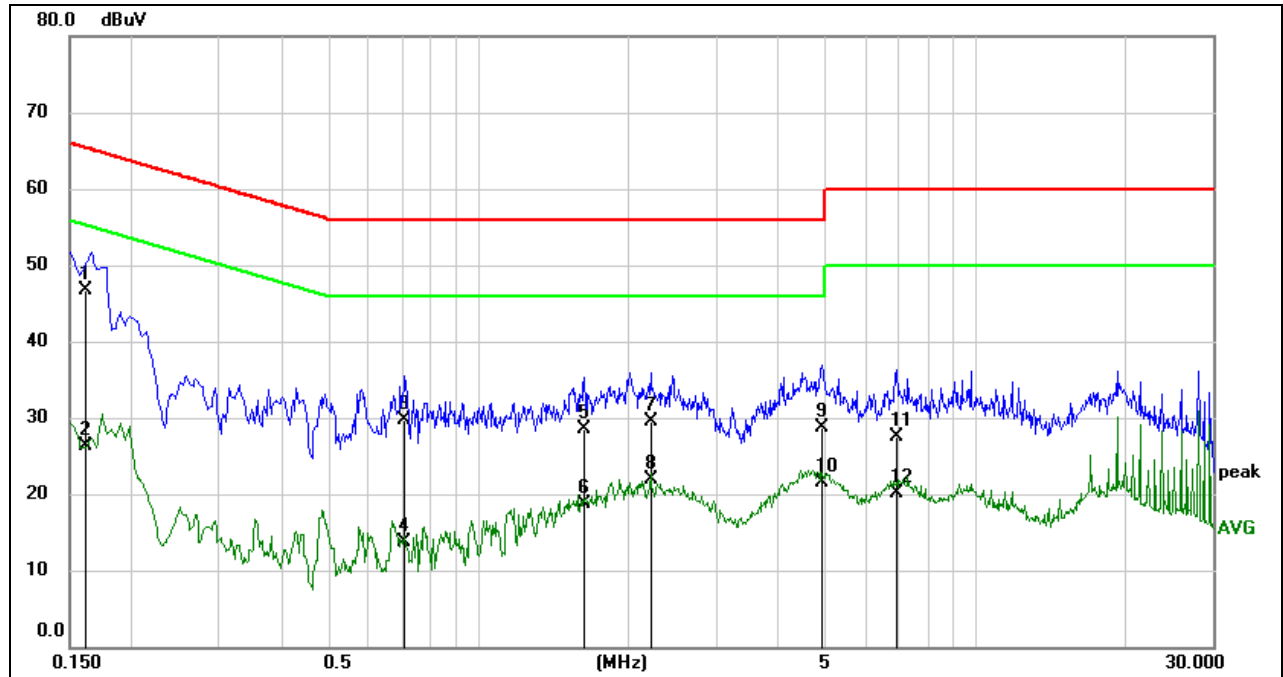
Temperature	23.5 °C	Relative Humidity	61.2 %
Atmosphere Pressure	101 kPa	Test Voltage	AC 120 V, 60 Hz



RESULTS

9.1.1. 802.11n HT20 MODE

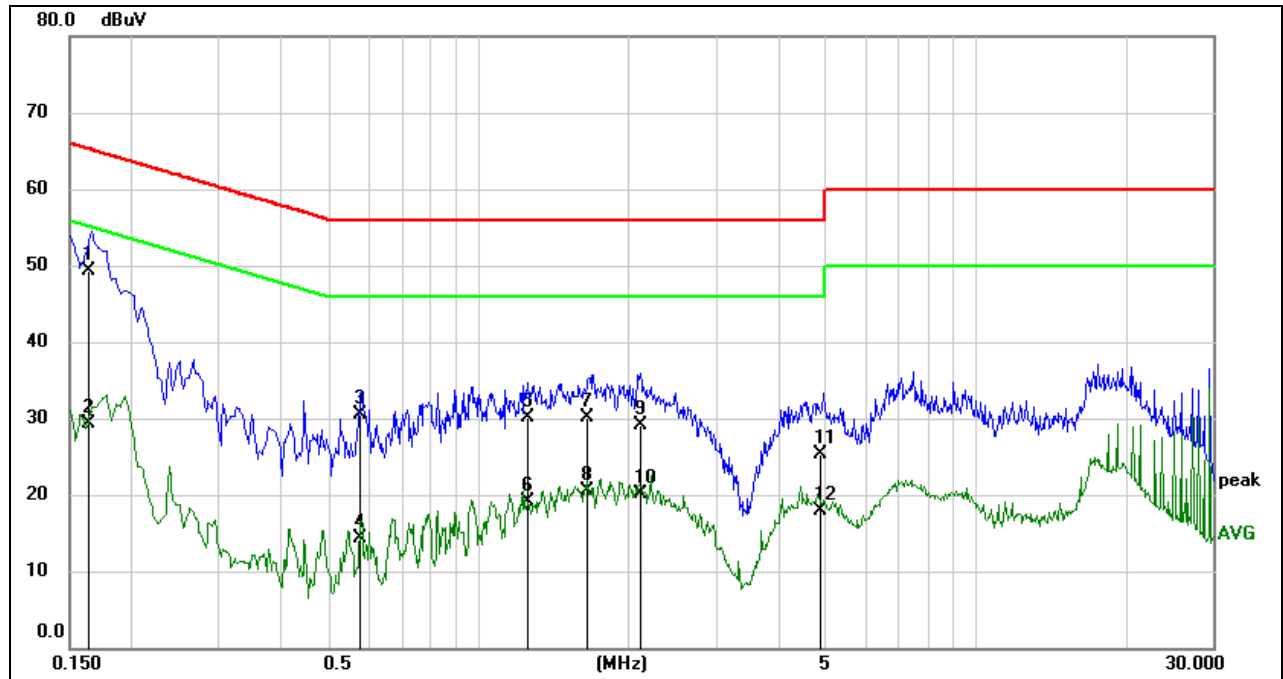
LINE L RESULTS (UNII-3 BAND MID CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1619	37.16	9.59	46.75	65.37	-18.62	QP
2	0.1619	16.66	9.59	26.25	55.37	-29.12	AVG
3	0.7058	20.07	9.60	29.67	56.00	-26.33	QP
4	0.7058	4.01	9.60	13.61	46.00	-32.39	AVG
5	1.6417	18.85	9.62	28.47	56.00	-27.53	QP
6	1.6417	9.08	9.62	18.70	46.00	-27.30	AVG
7	2.2241	19.95	9.63	29.58	56.00	-26.42	QP
8	2.2241	12.22	9.63	21.85	46.00	-24.15	AVG
9	4.9155	19.00	9.62	28.62	56.00	-27.38	QP
10	4.9155	11.95	9.62	21.57	46.00	-24.43	AVG
11	6.9197	17.90	9.63	27.53	60.00	-32.47	QP
12	6.9197	10.46	9.63	20.09	50.00	-29.91	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 MID CHANNEL, WORST-CASE CONFIGURATION)



No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Remark
1	0.1628	39.76	9.52	49.28	65.32	-16.04	QP
2	0.1628	19.73	9.52	29.25	55.32	-26.07	AVG
3	0.5778	20.96	9.50	30.46	56.00	-25.54	QP
4	0.5778	4.90	9.50	14.40	46.00	-31.60	AVG
5	1.2584	20.63	9.54	30.17	56.00	-25.83	QP
6	1.2584	9.50	9.54	19.04	46.00	-26.96	AVG
7	1.6421	20.46	9.58	30.04	56.00	-25.96	QP
8	1.6421	10.97	9.58	20.55	46.00	-25.45	AVG
9	2.1204	19.53	9.63	29.16	56.00	-26.84	QP
10	2.1204	10.50	9.63	20.13	46.00	-25.87	AVG
11	4.8662	15.83	9.44	25.27	56.00	-30.73	QP
12	4.8662	8.45	9.44	17.89	46.00	-28.11	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

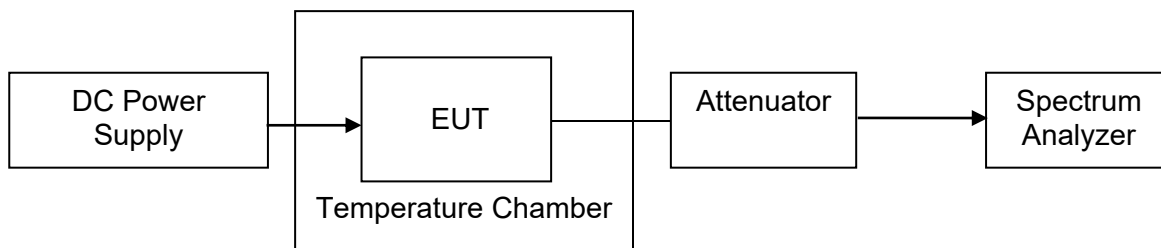
1. The EUT was placed inside an environmental chamber as the temperature in the chamber was varied between -10 °C ~ 70 °C (declared by customer).
2. The temperature was incremented by 10 °C intervals and the unit allowed to stabilize at each temperature before each measurement. The center frequency of 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	$\geq 3 \times \text{RBW}$
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): 25.3 °C	T _L (Low Temperature): -10 °C
		T _H (High Temperature): 70 °C
Supply Voltage	V _N (Normal Voltage): DC 5 V	V _L (Low Voltage): DC 4.5 V
		V _H (High Voltage): DC 5.5 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		
	<input type="checkbox"/> Master	<input checked="" type="checkbox"/> Client Without Radar Detection	<input type="checkbox"/> 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	
	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> 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	<input type="checkbox"/> Master Device or Client with Radar Detection	<input checked="" type="checkbox"/> 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 \geq 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.

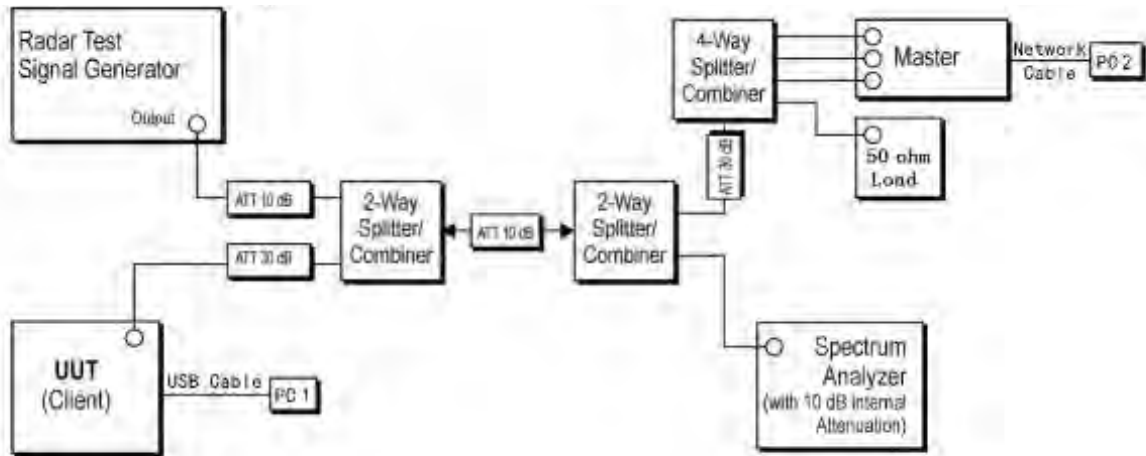
Table 5 Short Pulse Radar Test Waveforms

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 $\left\{ \begin{matrix} \frac{1}{360} \\ \frac{19 \cdot 10^9}{PRI_{\mu sec}} \end{matrix} \right\}$	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
<p>Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.</p> <p>Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a.</p> <p>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.</p>					

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	25.5 °C	Relative Humidity	53 %
Atmosphere Pressure	101 kPa	Test Voltage	DC 5 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**

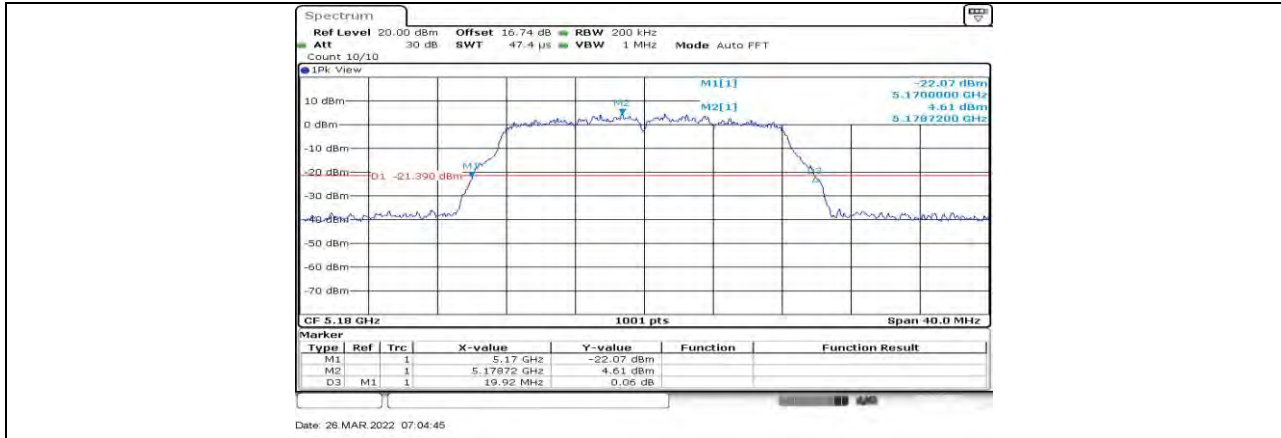
Test Mode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	19.92	5170.00	5189.92	PASS
	Ant2	5180	20.00	5169.88	5189.88	PASS
	Ant1	5200	20.12	5189.88	5210.00	PASS
	Ant2	5200	20.00	5189.88	5209.88	PASS
	Ant1	5240	19.84	5230.00	5249.84	PASS
	Ant2	5240	19.96	5229.96	5249.92	PASS
	Ant1	5260	20.16	5249.92	5270.08	PASS
	Ant2	5260	20.12	5249.88	5270.00	PASS
	Ant1	5280	19.96	5270.04	5290.00	PASS
	Ant2	5280	19.84	5270.04	5289.88	PASS
	Ant1	5320	20.00	5309.96	5329.96	PASS
	Ant2	5320	19.96	5309.96	5329.92	PASS
	Ant1	5500	19.96	5489.88	5509.84	PASS
	Ant2	5500	19.96	5489.96	5509.92	PASS
	Ant1	5580	20.24	5569.84	5590.08	PASS
	Ant2	5580	20.16	5569.84	5590.00	PASS
	Ant1	5700	20.16	5689.88	5710.04	PASS
	Ant2	5700	20.04	5689.96	5710.00	PASS
	Ant1	5720	20.00	5709.92	5729.92	PASS
	Ant2	5720	19.92	5710.00	5729.92	PASS
	Ant1	5720 UNII-2C	15.08	5709.92	5725	PASS
	Ant2	5720 UNII-2C	15	5710.00	5725	PASS
	Ant1	5720 UNII-3	4.92	5725	5729.92	PASS
	Ant2	5720 UNII-3	4.92	5725	5729.92	PASS
	Ant1	5745	20.00	5734.88	5754.88	PASS
	Ant2	5745	19.96	5734.92	5754.88	PASS
	Ant1	5785	20.00	5774.96	5794.96	PASS
	Ant2	5785	20.20	5774.68	5794.88	PASS
	Ant1	5825	19.92	5814.96	5834.88	PASS
	Ant2	5825	20.16	5814.76	5834.92	PASS
11N20MIMO	Ant1	5180	20.12	5169.96	5190.08	PASS
	Ant2	5180	20.16	5169.88	5190.04	PASS
	Ant1	5200	20.24	5189.88	5210.12	PASS
	Ant2	5200	20.20	5189.84	5210.04	PASS
	Ant1	5240	20.24	5229.84	5250.08	PASS
	Ant2	5240	20.16	5229.92	5250.08	PASS
	Ant1	5260	20.28	5249.80	5270.08	PASS
	Ant2	5260	20.32	5249.84	5270.16	PASS
	Ant1	5280	20.40	5269.92	5290.32	PASS
	Ant2	5280	20.32	5269.80	5290.12	PASS
	Ant1	5320	20.16	5309.80	5329.96	PASS
	Ant2	5320	19.92	5310.04	5329.96	PASS
	Ant1	5500	20.20	5489.96	5510.16	PASS
	Ant2	5500	20.32	5489.88	5510.20	PASS
	Ant1	5580	20.24	5569.88	5590.12	PASS
	Ant2	5580	20.28	5569.80	5590.08	PASS
	Ant1	5700	20.12	5689.92	5710.04	PASS
	Ant2	5700	20.28	5689.84	5710.12	PASS
	Ant1	5720	20.20	5709.92	5730.12	PASS
	Ant2	5720	20.32	5709.88	5730.20	PASS
	Ant1	5720 UNII-2C	15.08	5709.92	5725	PASS
	Ant2	5720 UNII-2C	15.12	5709.88	5725	PASS
	Ant1	5720 UNII-3	5.12	5725	5730.12	PASS
	Ant2	5720 UNII-3	5.2	5725	5730.20	PASS
	Ant1	5745	20.32	5734.80	5755.12	PASS



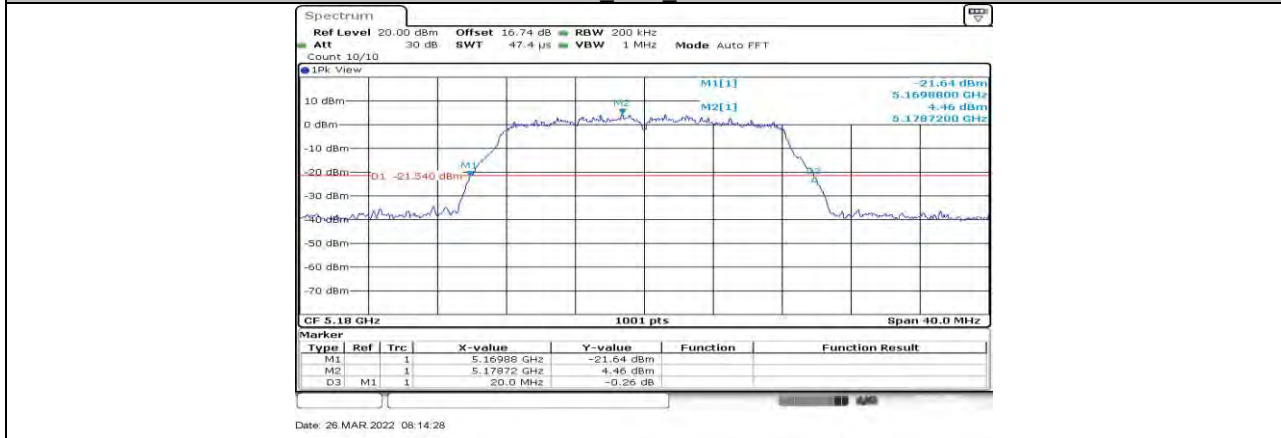
	Ant2	5745	20.20	5734.88	5755.08	PASS
	Ant1	5785	20.16	5774.96	5795.12	PASS
	Ant2	5785	20.40	5774.92	5795.32	PASS
	Ant1	5825	20.28	5814.96	5835.24	PASS
	Ant2	5825	20.08	5814.92	5835.00	PASS
11N40MIMO	Ant1	5190	41.04	5169.44	5210.48	PASS
	Ant2	5190	40.56	5169.76	5210.32	PASS
	Ant1	5230	41.28	5209.36	5250.64	PASS
	Ant2	5230	40.96	5209.68	5250.64	PASS
	Ant1	5270	41.52	5249.04	5290.56	PASS
	Ant2	5270	40.64	5249.68	5290.32	PASS
	Ant1	5310	41.20	5289.44	5330.64	PASS
	Ant2	5310	40.48	5289.68	5330.16	PASS
	Ant1	5510	40.96	5489.68	5530.64	PASS
	Ant2	5510	40.80	5489.60	5530.40	PASS
	Ant1	5590	41.36	5569.28	5610.64	PASS
	Ant2	5590	40.40	5569.76	5610.16	PASS
	Ant1	5670	41.44	5649.44	5690.88	PASS
	Ant2	5670	41.36	5649.36	5690.72	PASS
	Ant1	5710	40.96	5689.52	5730.48	PASS
	Ant2	5710	40.80	5689.44	5730.24	PASS
	Ant1	5710 UNII-2C	35.48	5689.52	5725	PASS
	Ant2	5710 UNII-2C	35.56	5689.44	5725	PASS
	Ant1	5710 UNII-3	5.48	5725	5730.48	PASS
	Ant2	5710 UNII-3	5.24	5725	5730.24	PASS
	Ant1	5755	41.36	5734.20	5775.56	PASS
	Ant2	5755	41.28	5734.36	5775.64	PASS
	Ant1	5795	41.28	5774.52	5815.80	PASS
	Ant2	5795	40.72	5774.68	5815.40	PASS
11AC80MIMO	Ant1	5210	81.60	5169.04	5250.64	PASS
	Ant2	5210	81.12	5169.52	5250.64	PASS
	Ant1	5290	81.92	5249.36	5331.28	PASS
	Ant2	5290	81.12	5249.68	5330.80	PASS
	Ant1	5530	81.44	5489.36	5570.80	PASS
	Ant2	5530	81.12	5489.68	5570.80	PASS
	Ant1	5610	81.92	5569.20	5651.12	PASS
	Ant2	5610	81.28	5569.36	5650.64	PASS
	Ant1	5690	81.60	5649.36	5730.96	PASS
	Ant2	5690	81.44	5649.20	5730.64	PASS
	Ant1	5690 UNII-2C	75.64	5649.36	5725	PASS
	Ant2	5690 UNII-2C	75.8	5649.20	5725	PASS
	Ant1	5690 UNII-3	5.96	5725	5730.96	PASS
	Ant2	5690 UNII-3	5.64	5725	5730.64	PASS
	Ant1	5775	82.08	5733.88	5815.96	PASS
	Ant2	5775	81.44	5734.36	5815.80	PASS



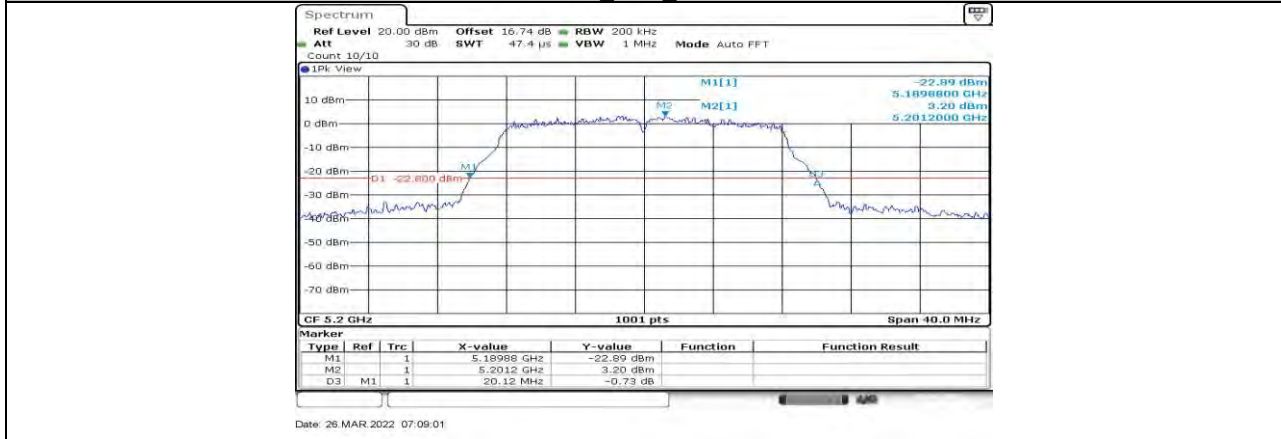
12.1.2. Test Graphs



11A Ant1 5180



11A Ant2 5180



11A Ant1 5200



11A Ant2 5200



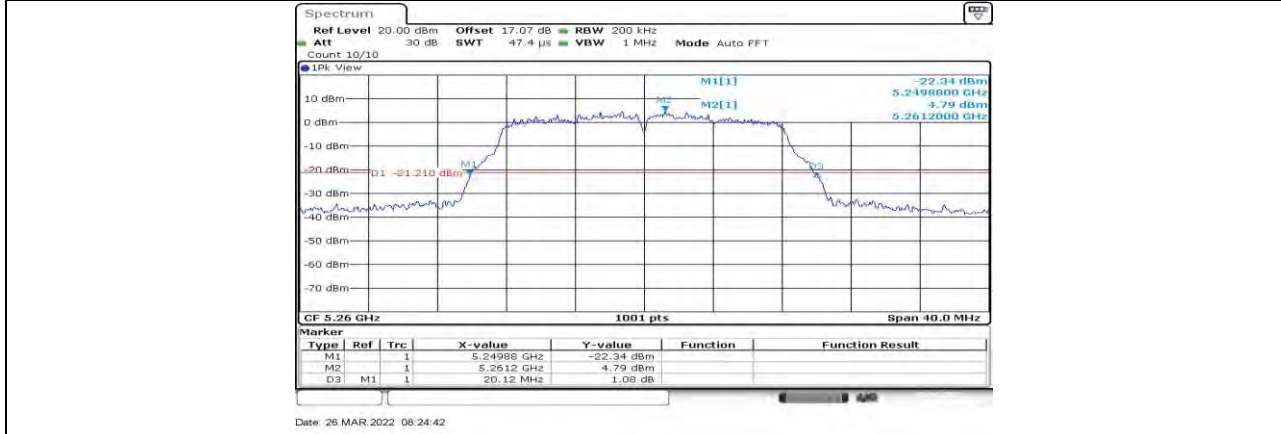
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11A Ant2 5240



11A Ant1 5260



11A Ant2 5260

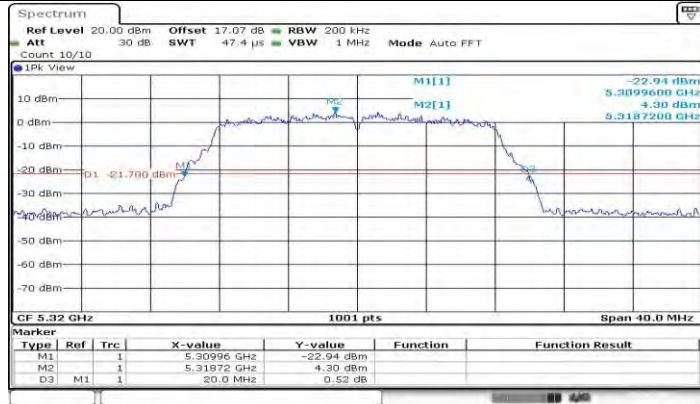


11A Ant1 5280



Date: 26 MAR 2022 08:27:37

11A Ant2 5280



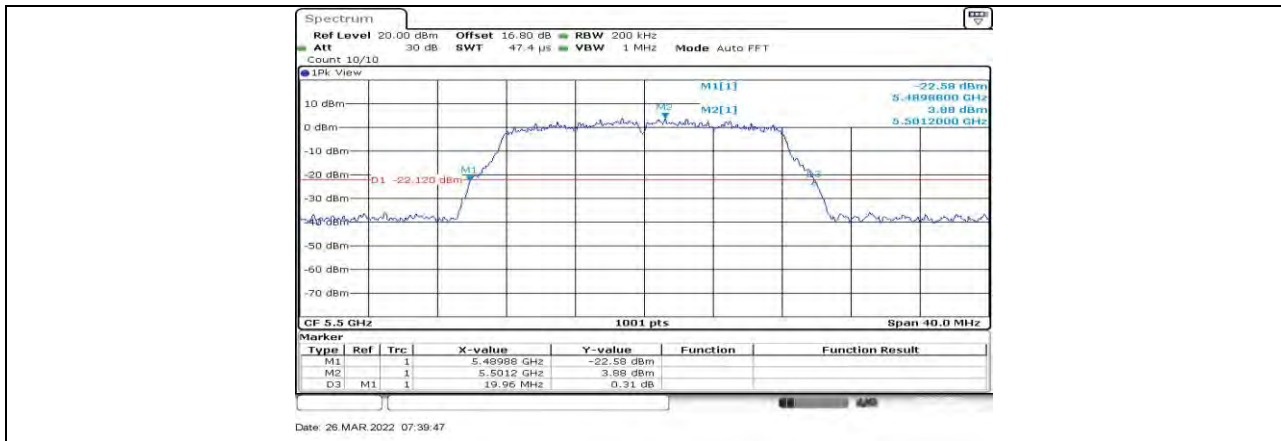
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11A Ant1 5320



Date: 26 MAR 2022 08:30:40

11A Ant2 5320



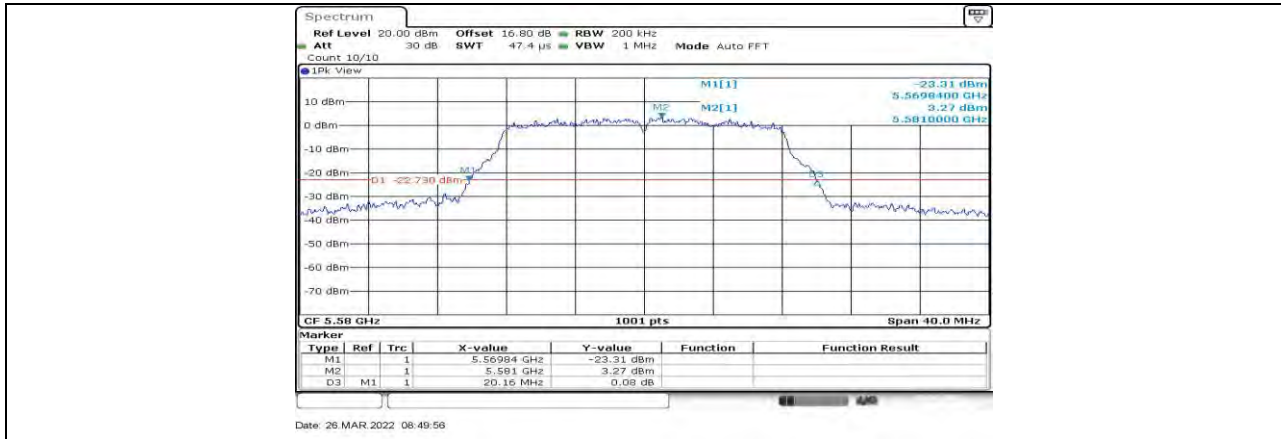
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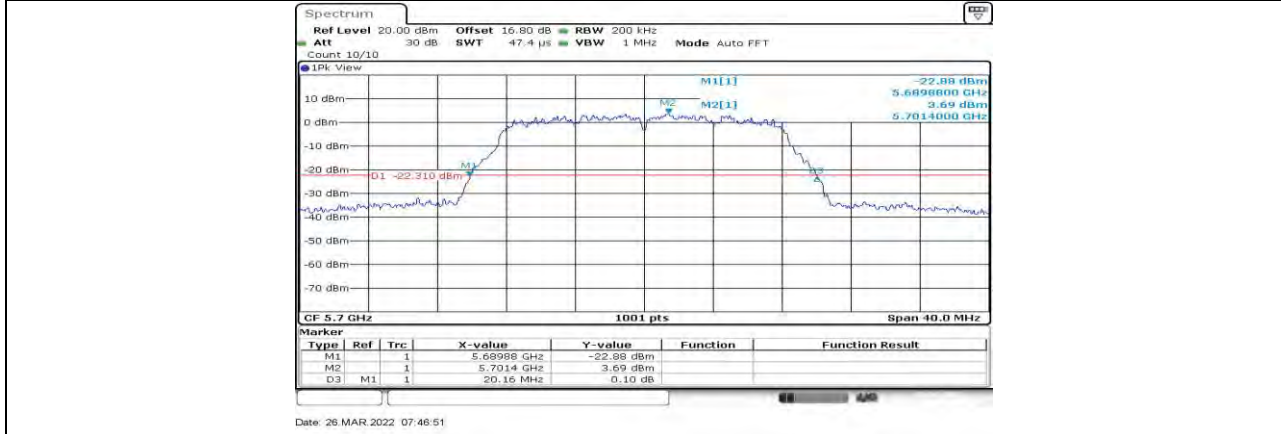
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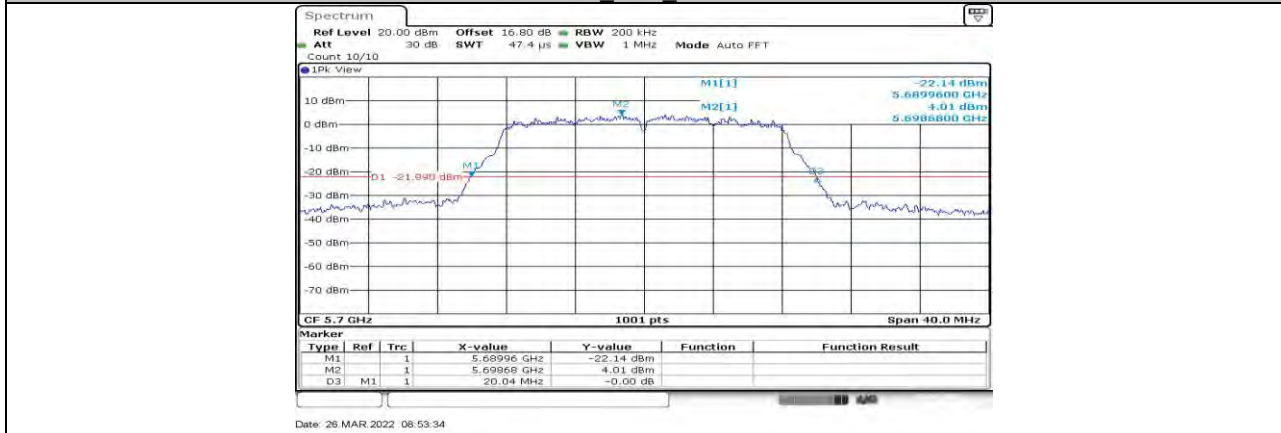
11A Ant1 5580



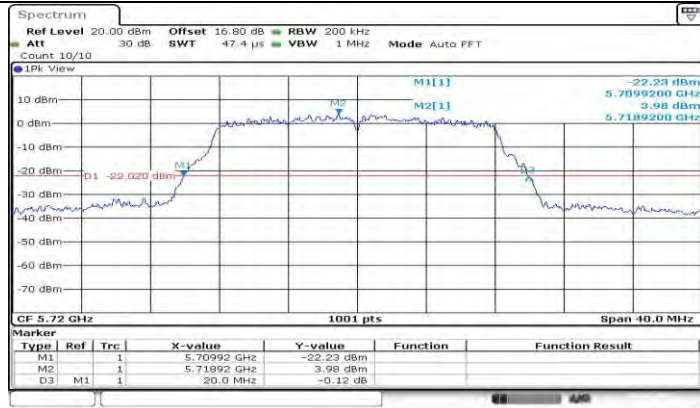
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11A Ant1 5700

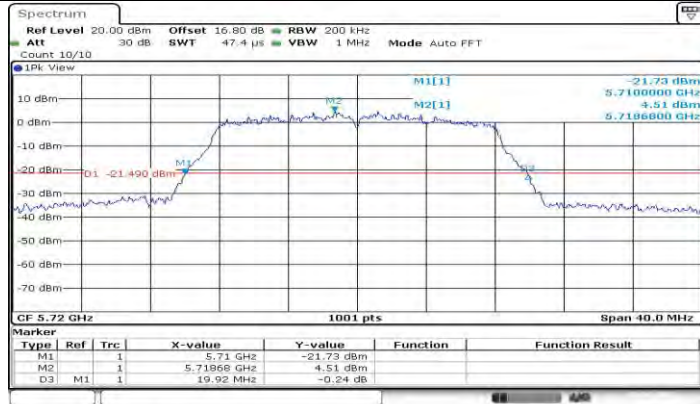


11A Ant2 5700



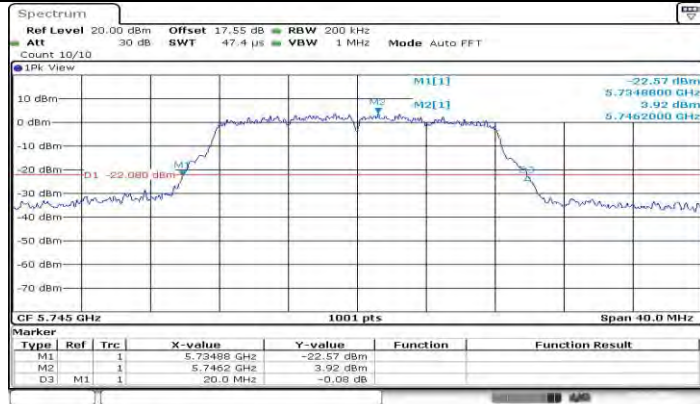
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11A Ant1 5720



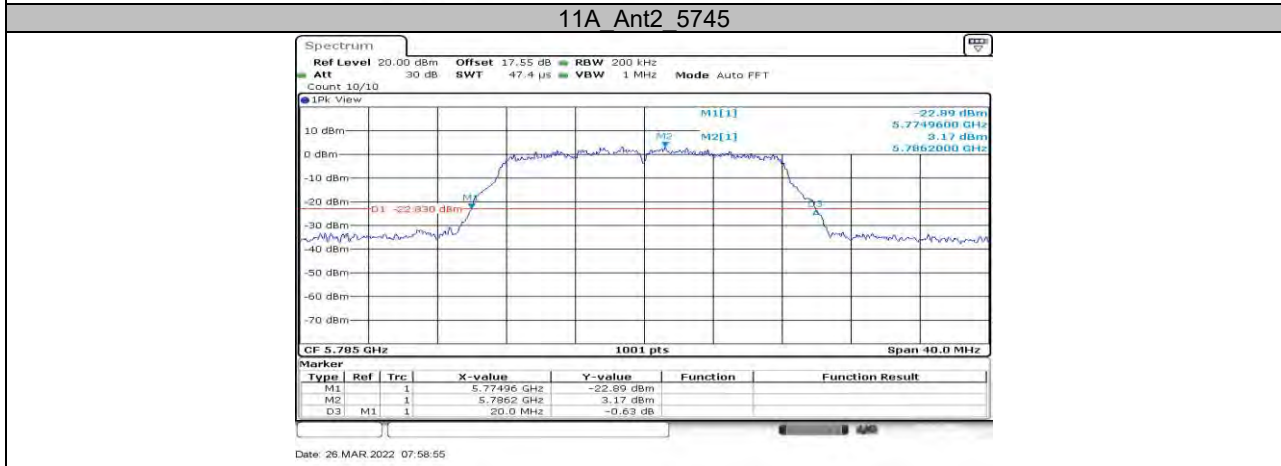
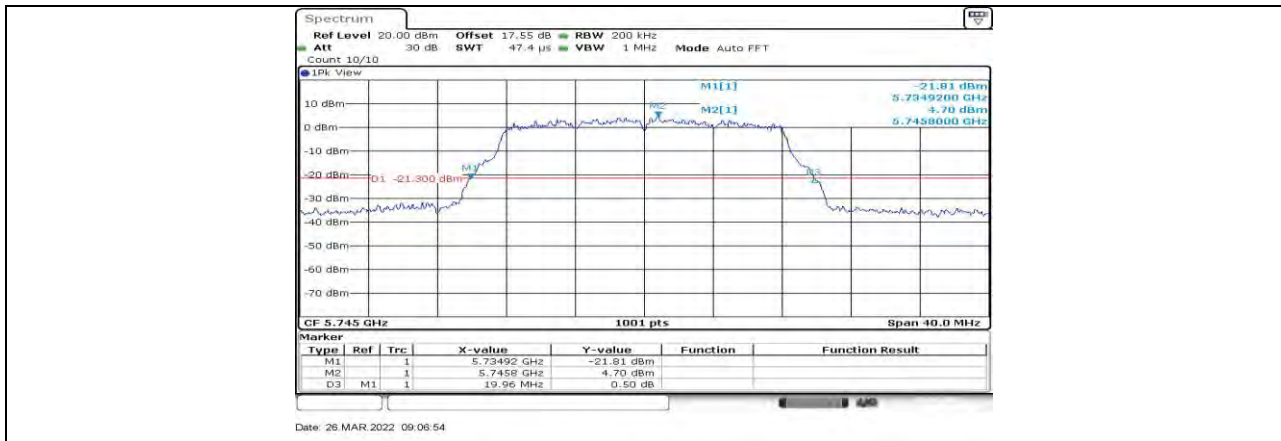
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11A Ant2 5720

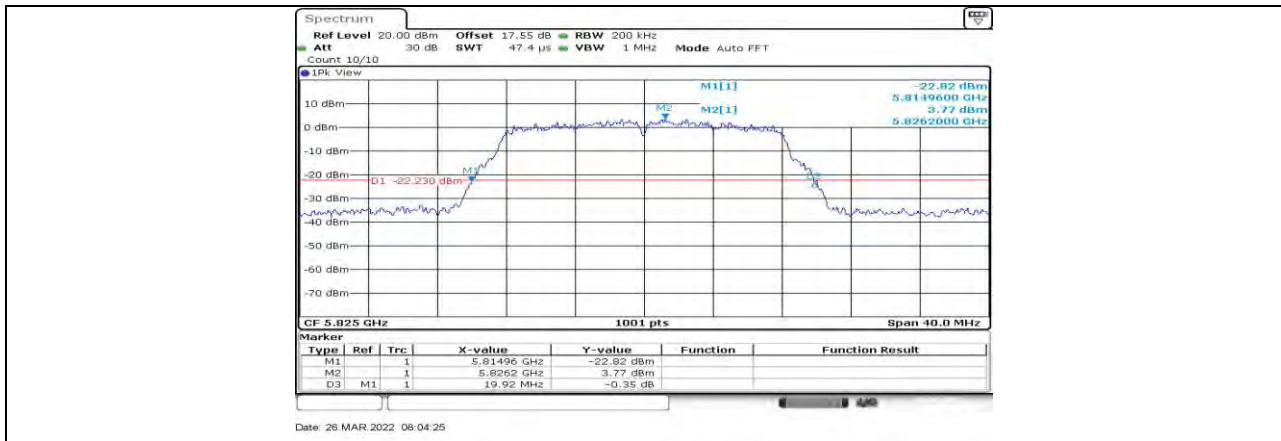


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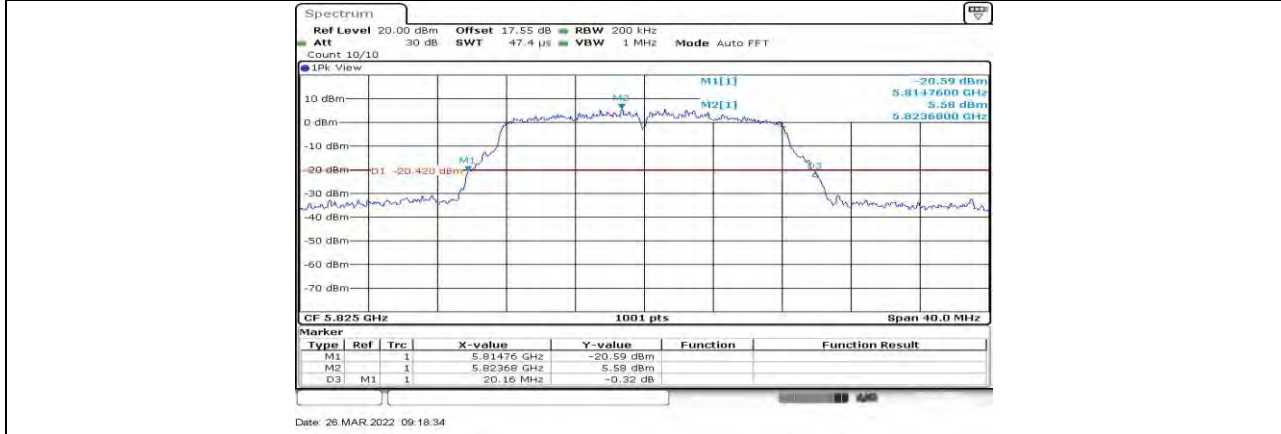
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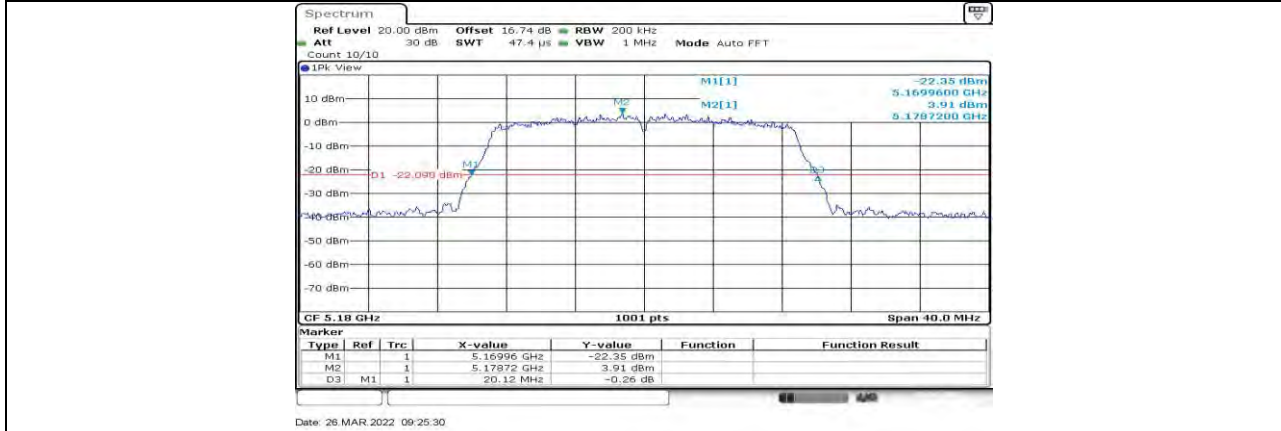
11A Ant2 5785



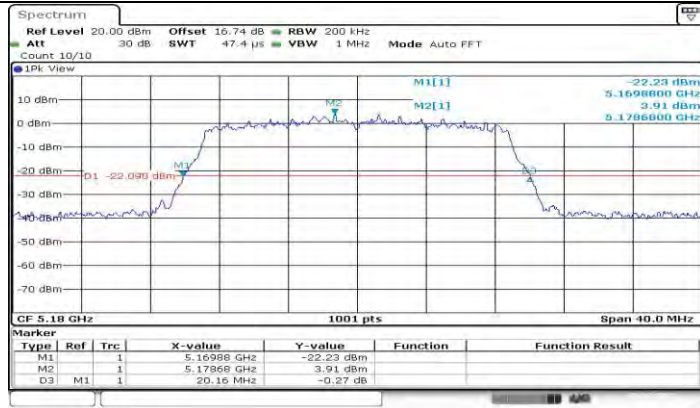
11A Ant1 5825



11A Ant2 5825

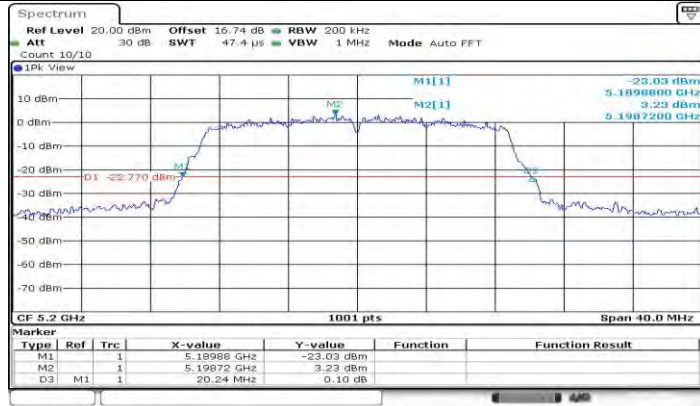


11N20MIMO Ant1 5180



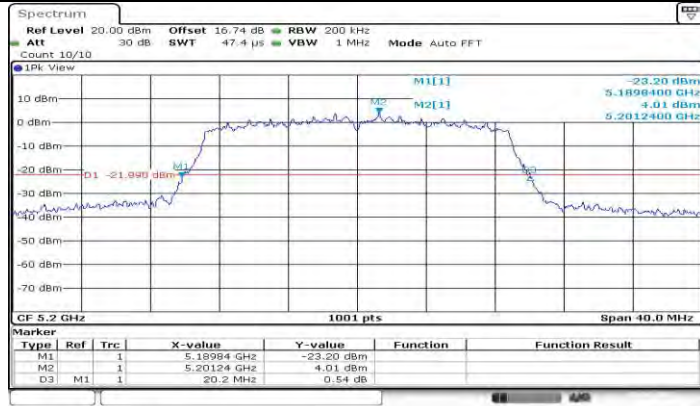
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11N20MIMO Ant2 5180



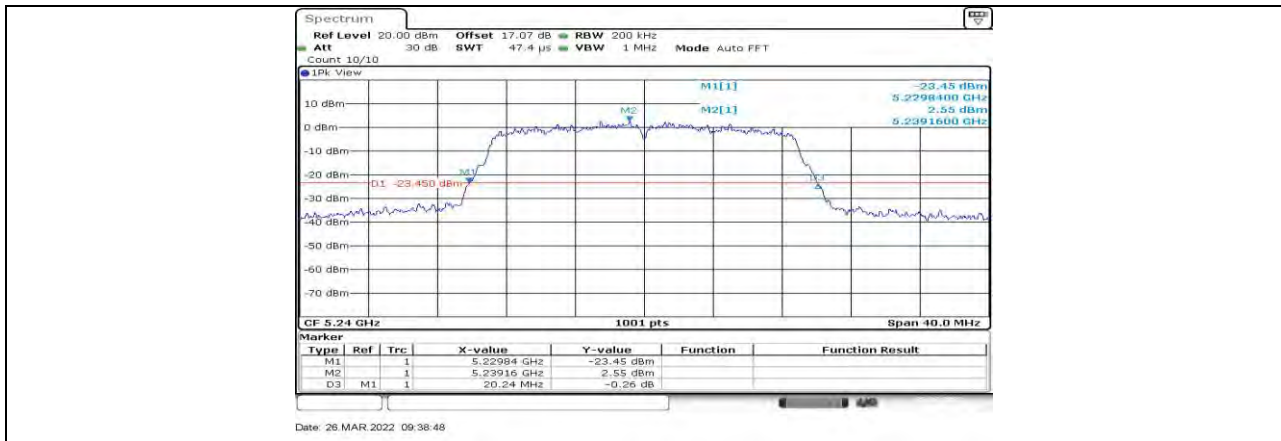
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11N20MIMO Ant1 5200



Date: 26.MAR.2022 09:32:43

11N20MIMO Ant2 5200



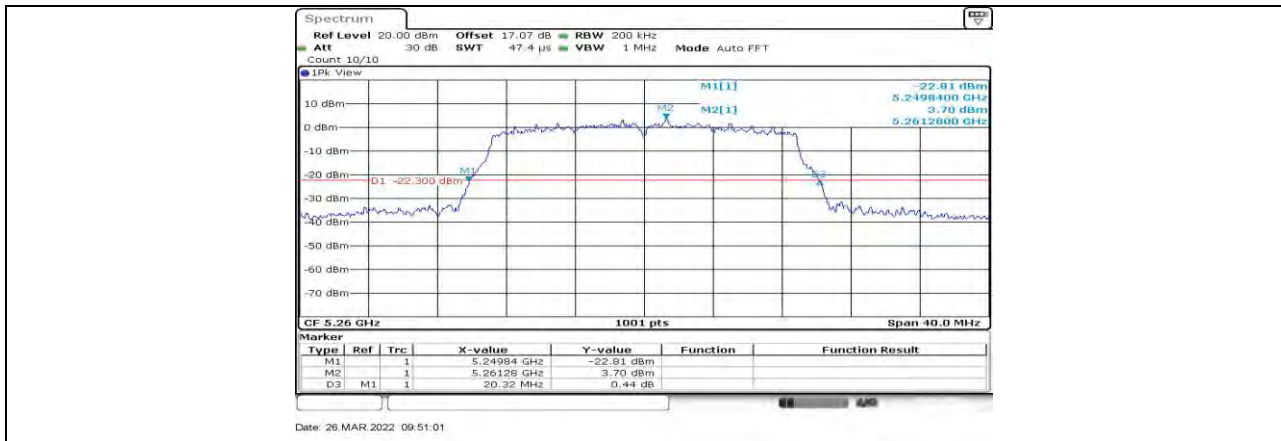
11N20MIMO Ant1 5240



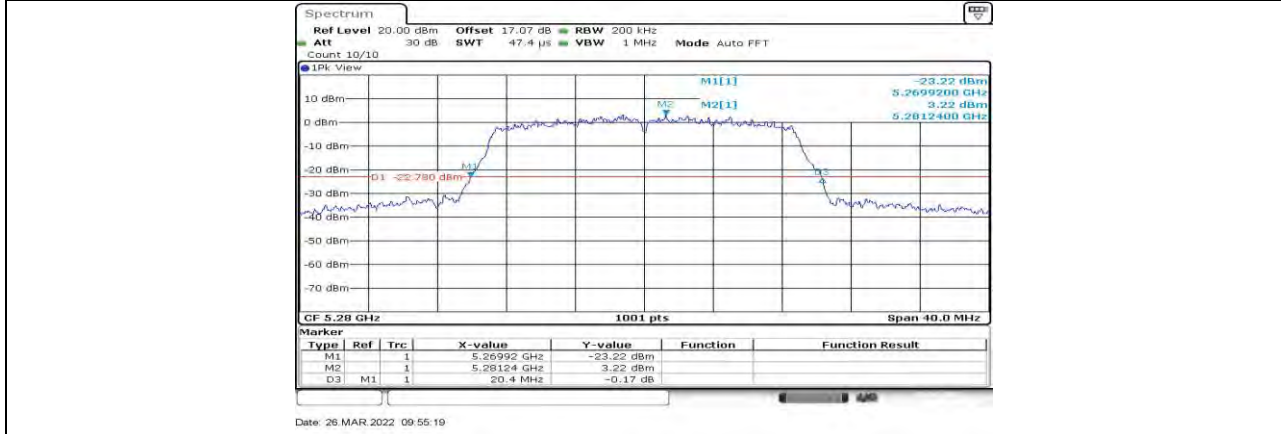
11N20MIMO Ant2 5240



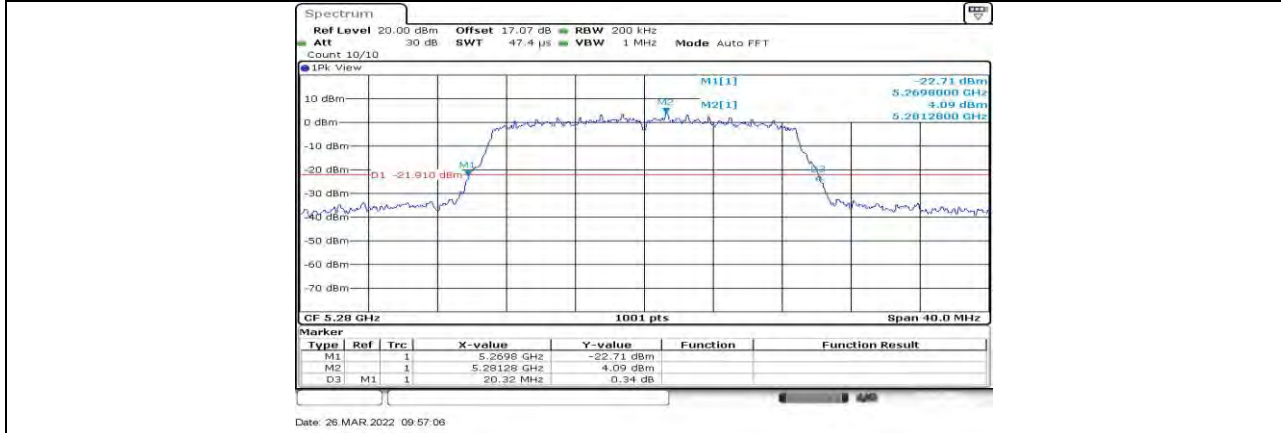
11N20MIMO Ant1 5260



11N20MIMO Ant2 5260



11N20MIMO Ant1 5280



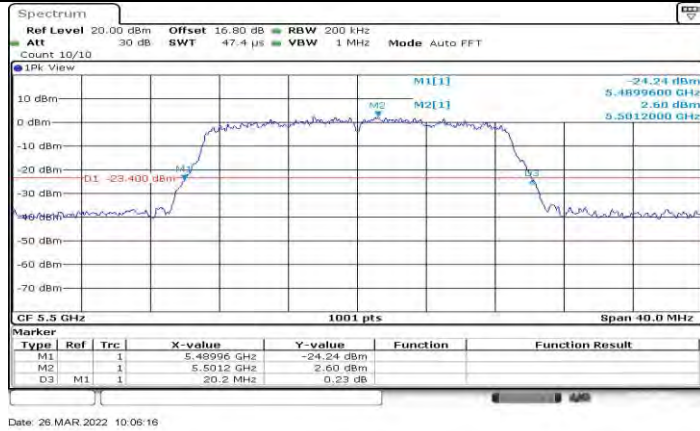
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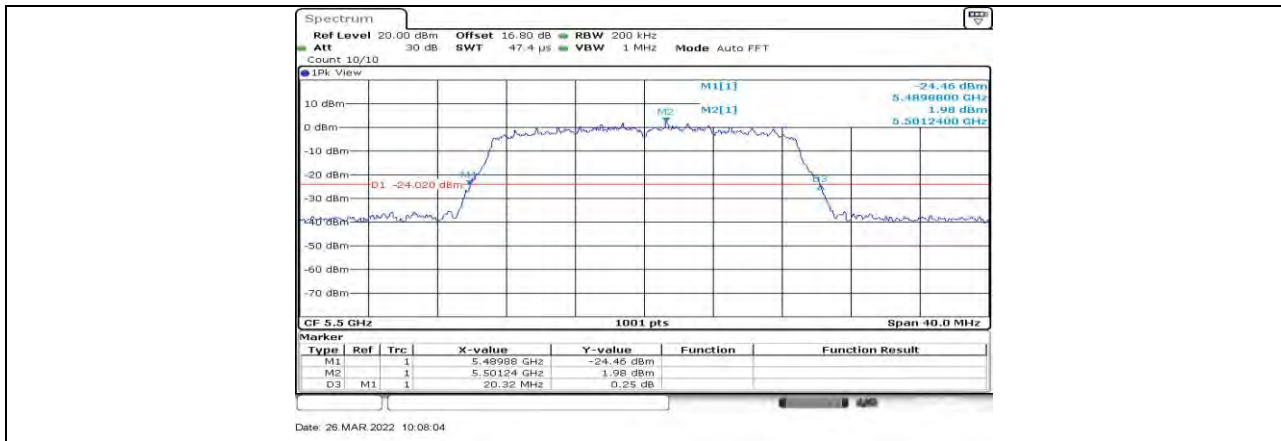
11N20MIMO Ant1 5320



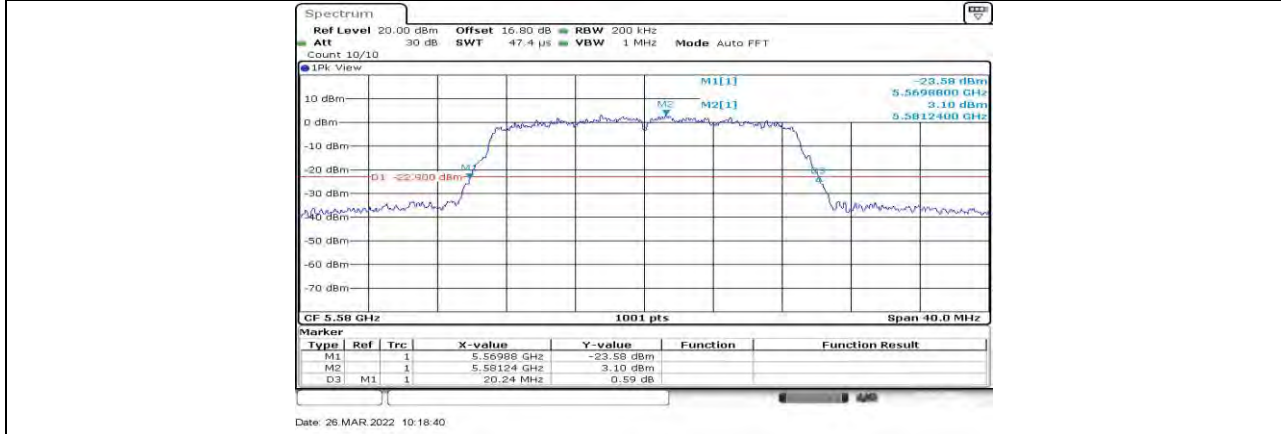
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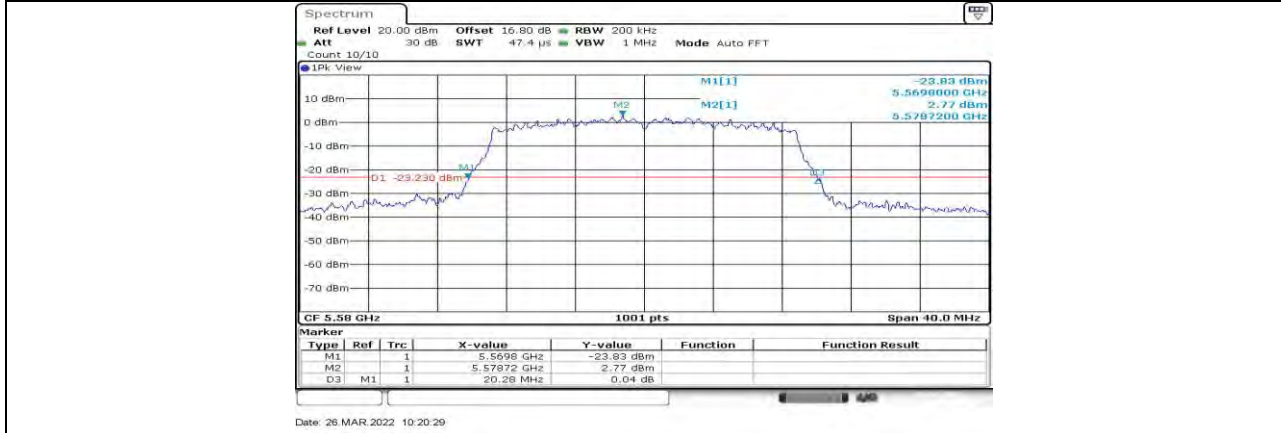
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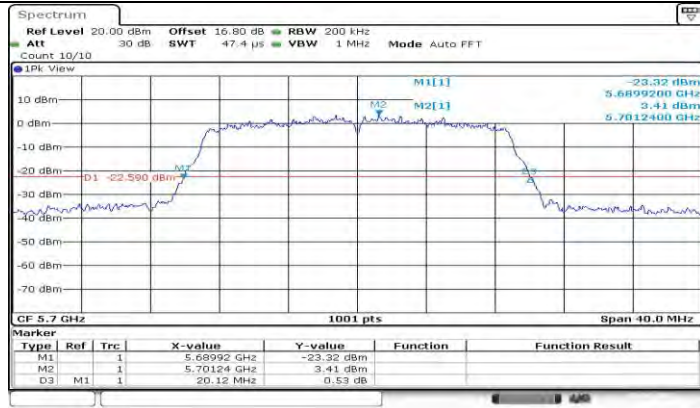
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11N20MIMO Ant1 5580



11N20MIMO Ant2 5580



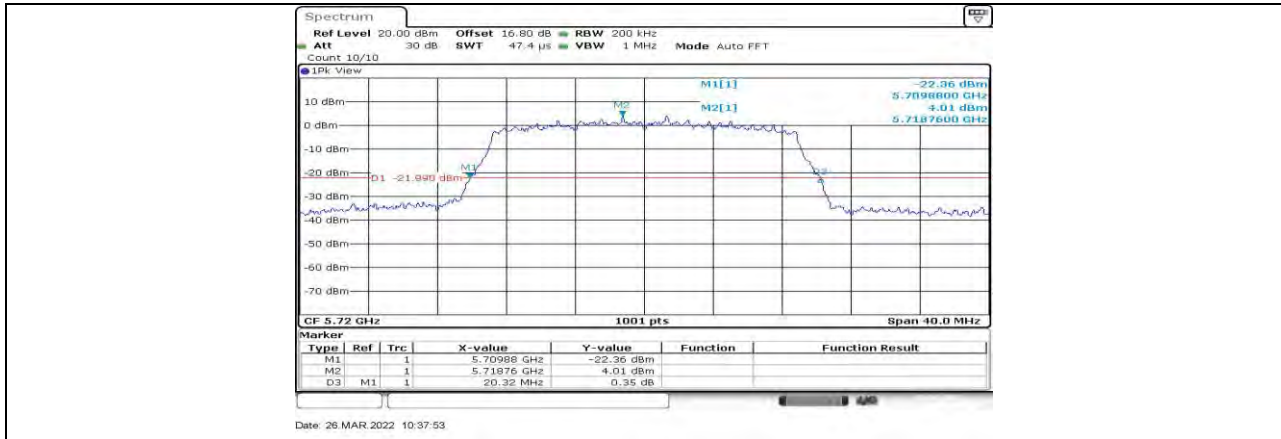
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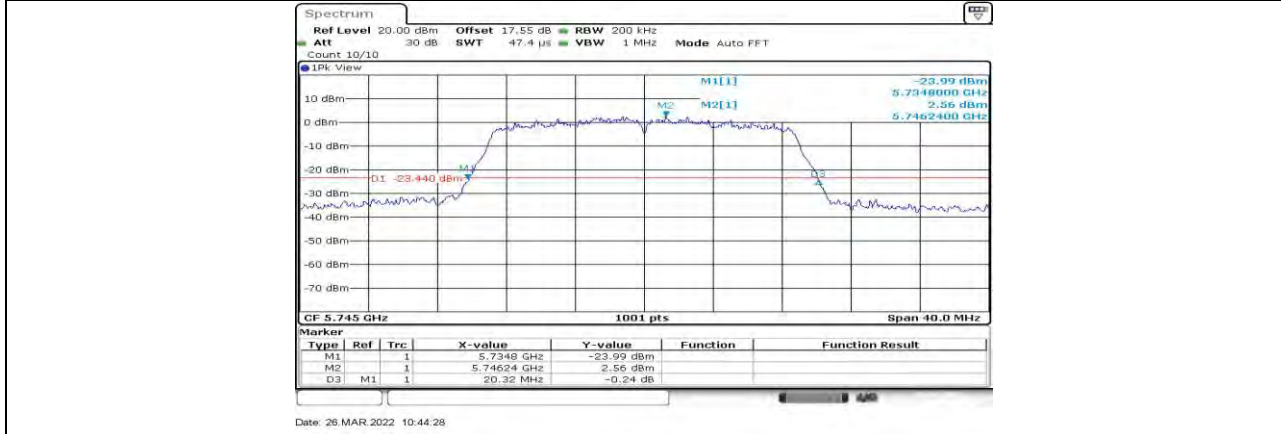
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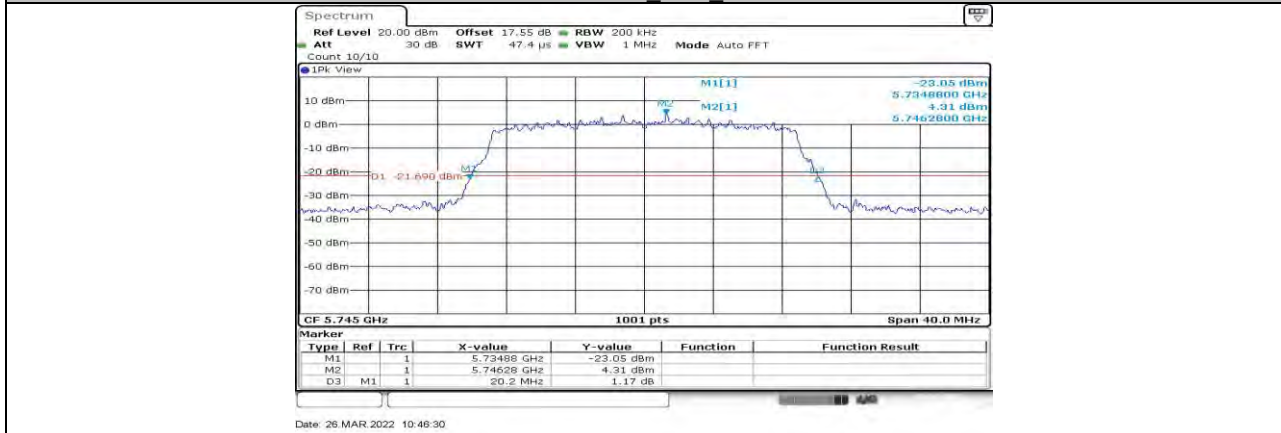
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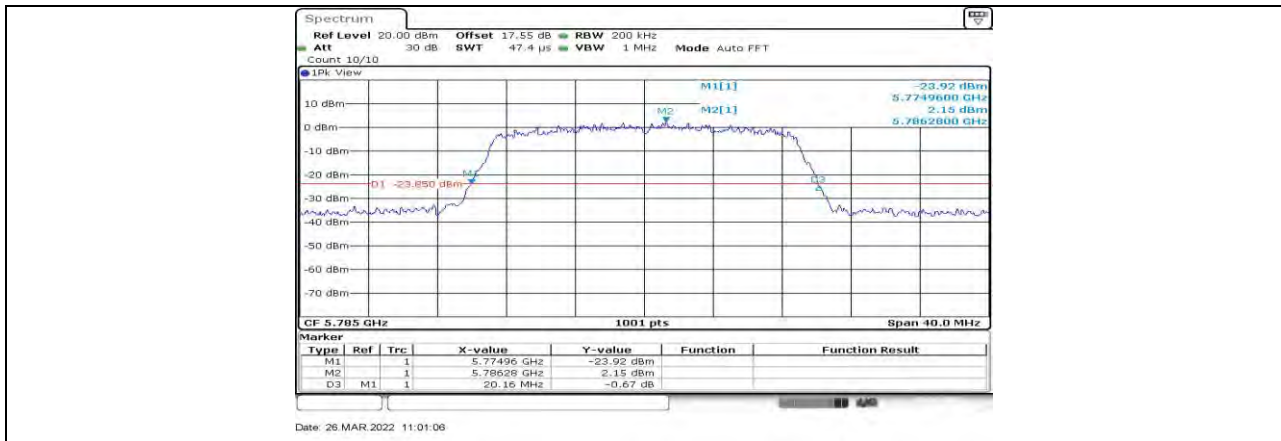
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11N20MIMO Ant1 5745



11N20MIMO Ant2 5745



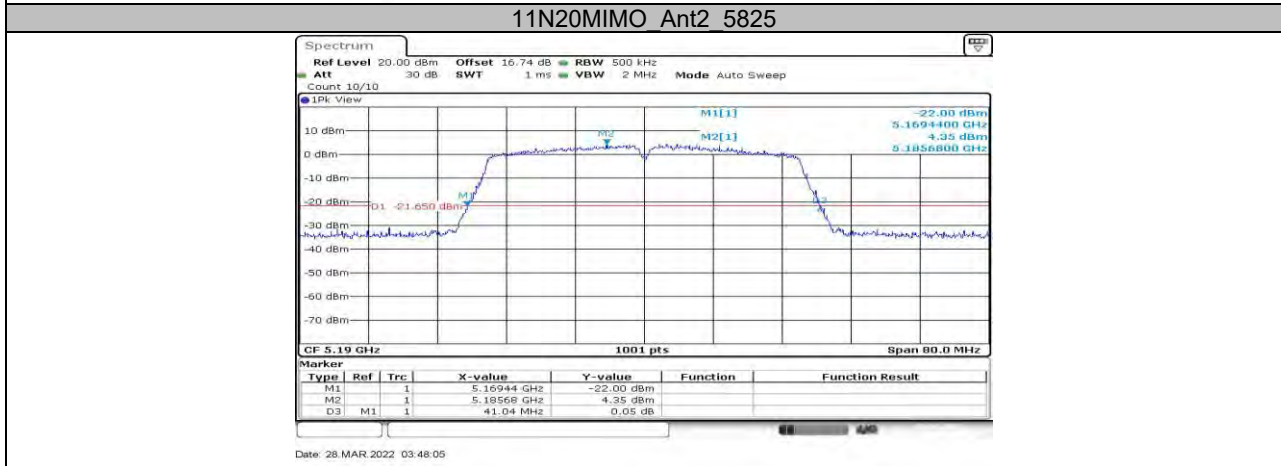
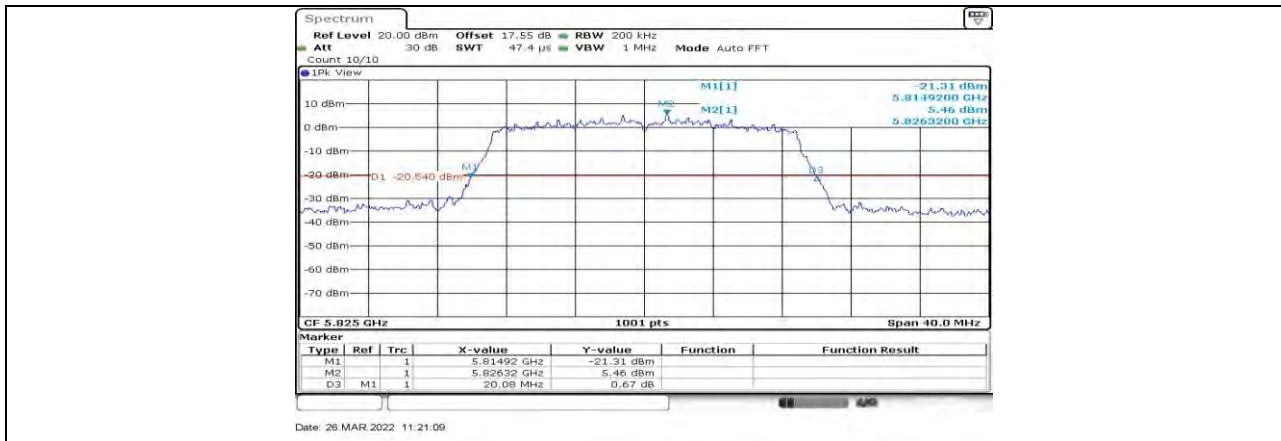
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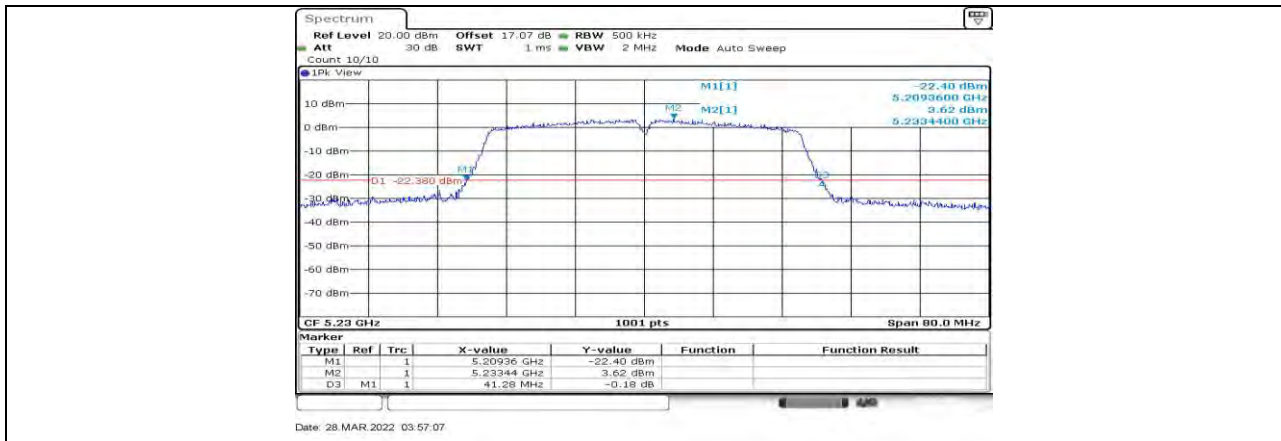


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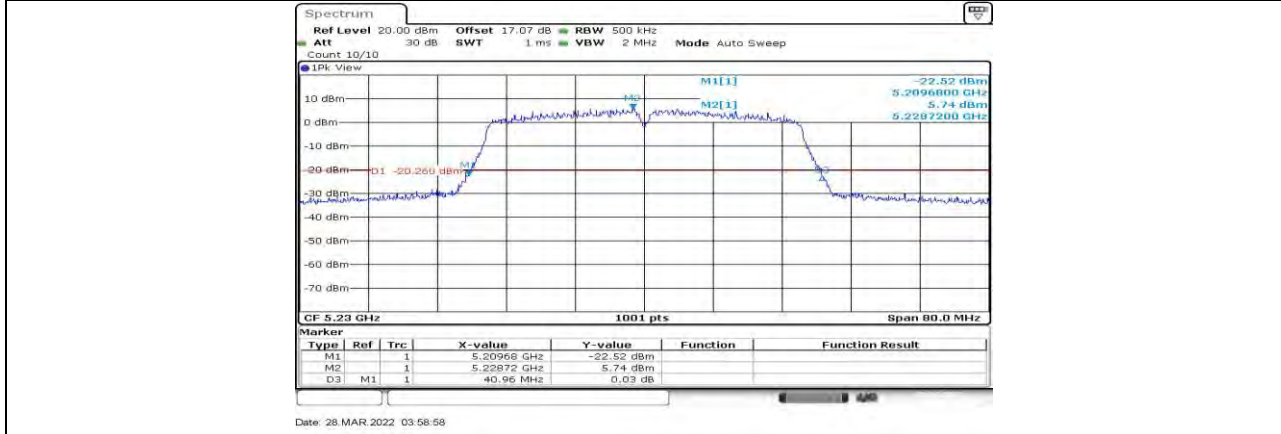


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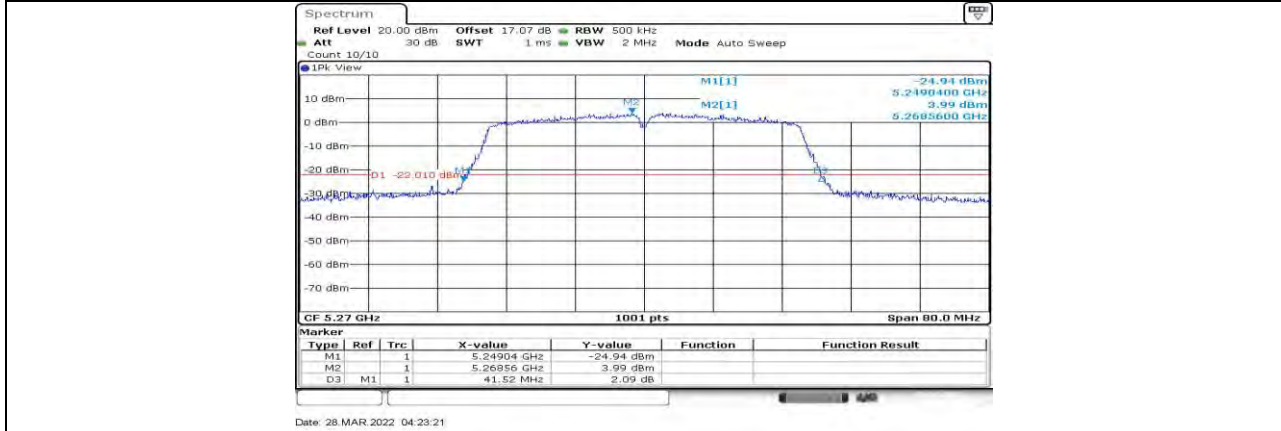




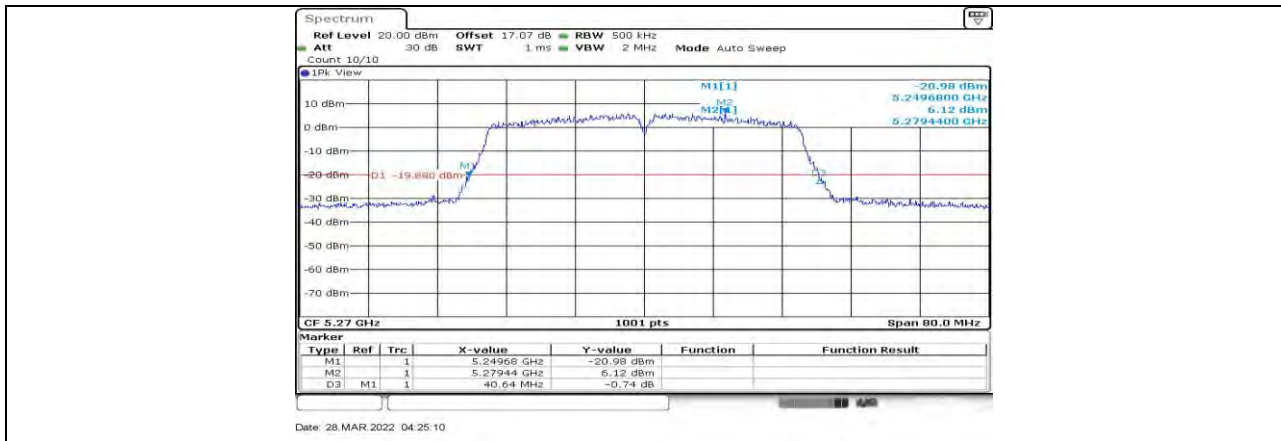
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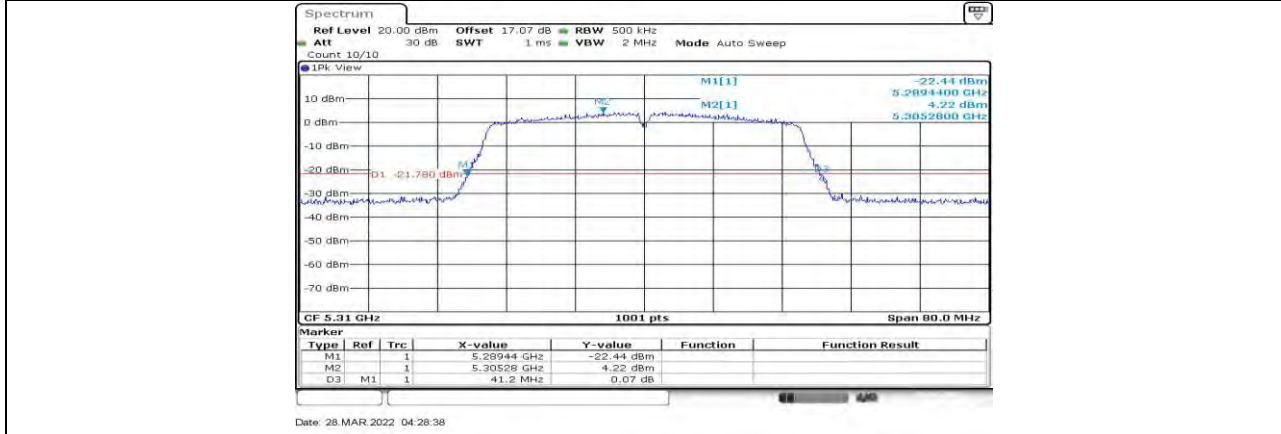
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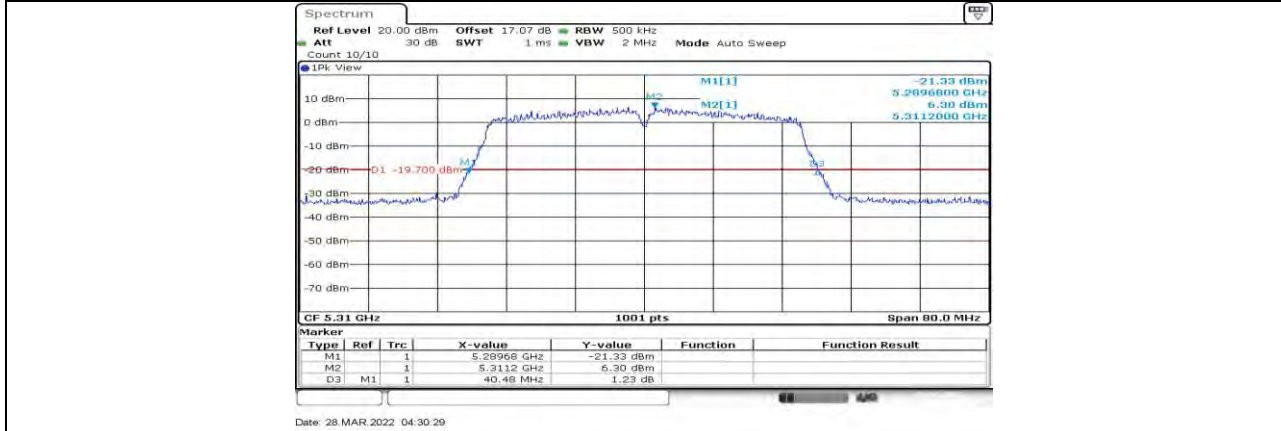
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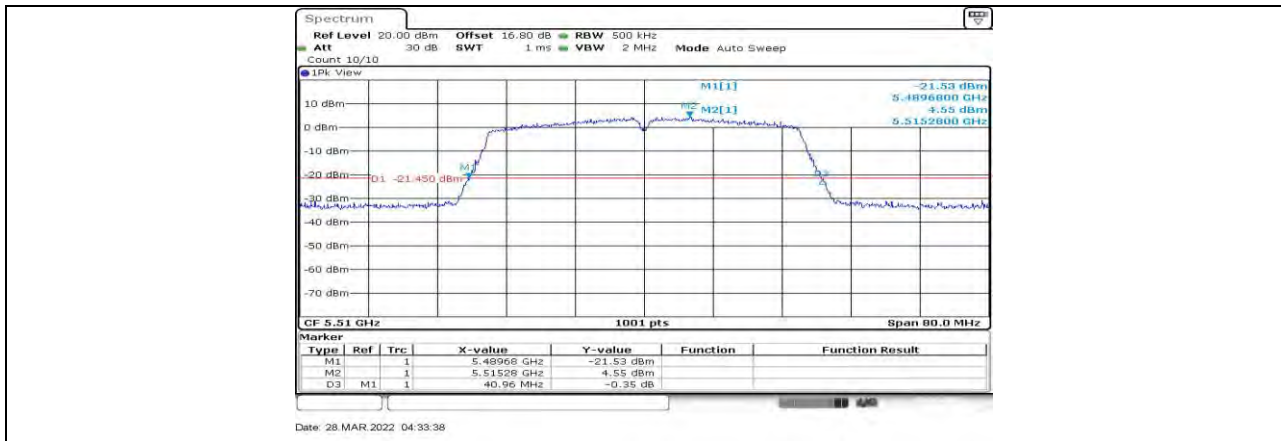
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11N40MIMO Ant1 5310



11N40MIMO Ant2 5310



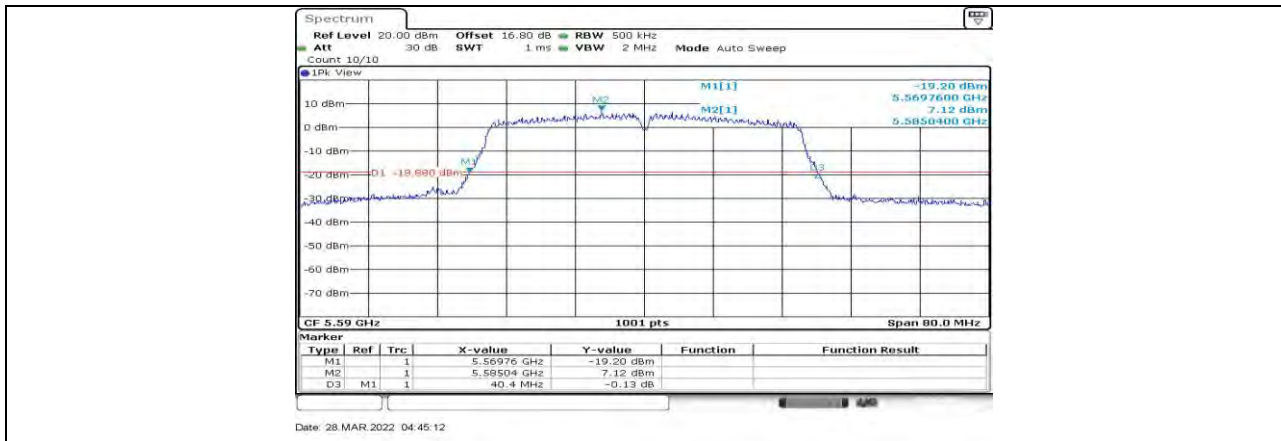
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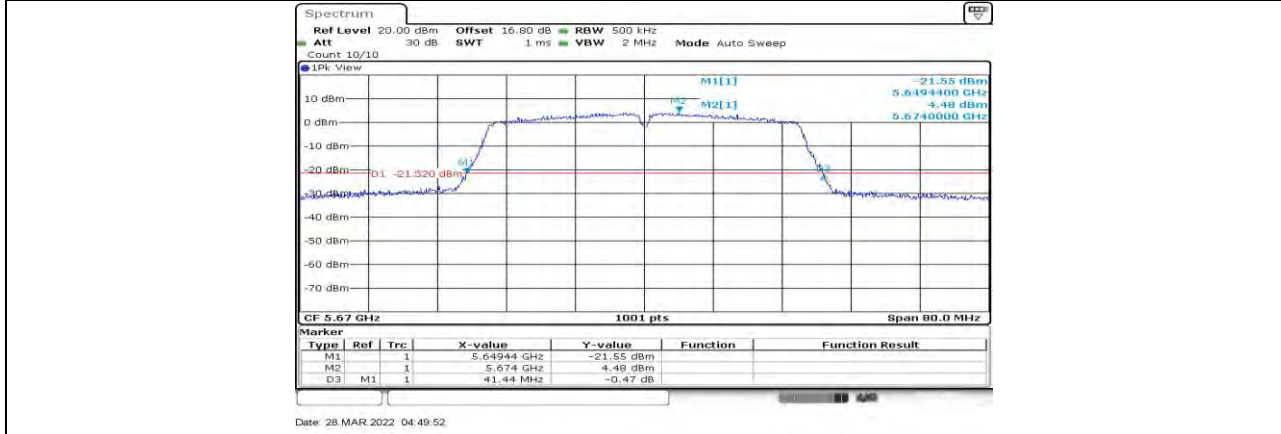
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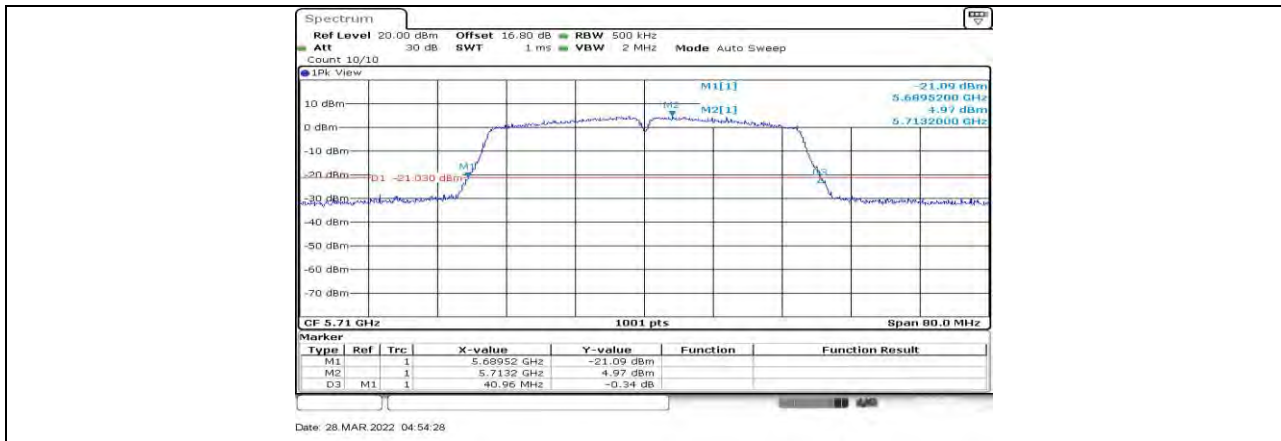
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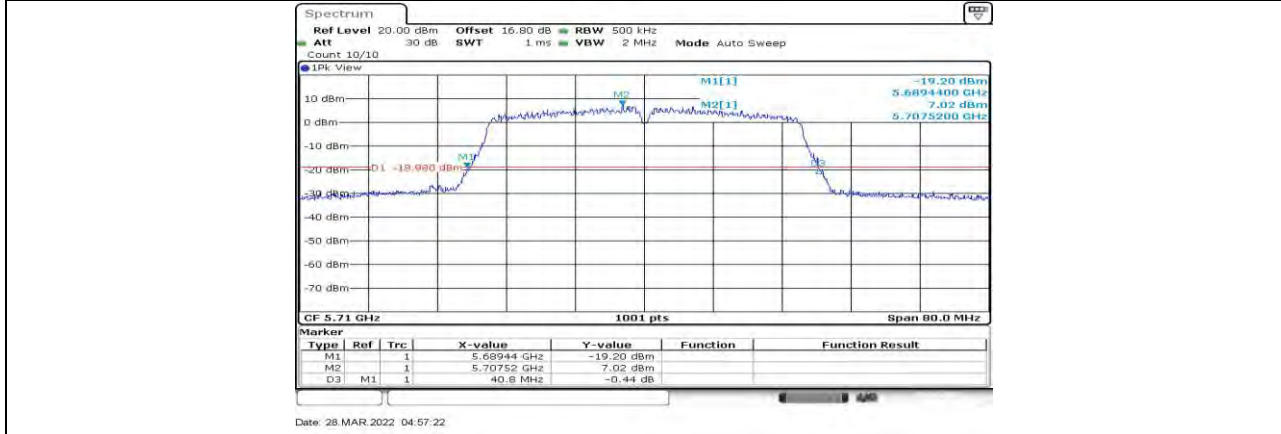
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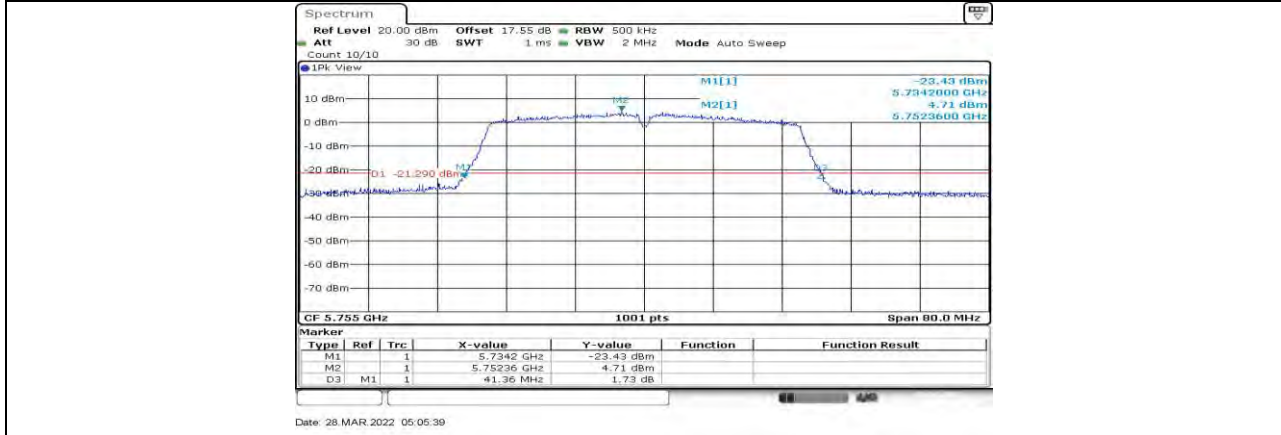
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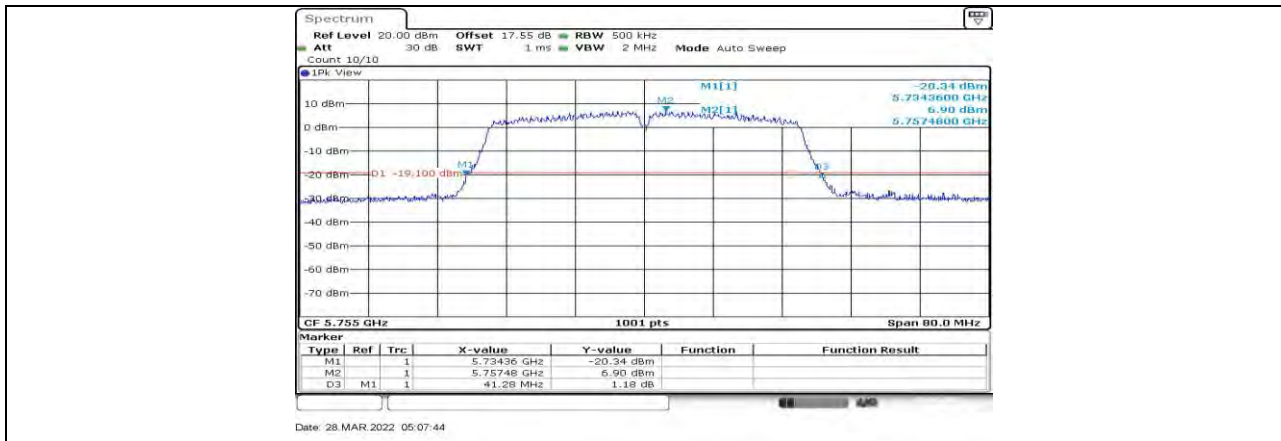
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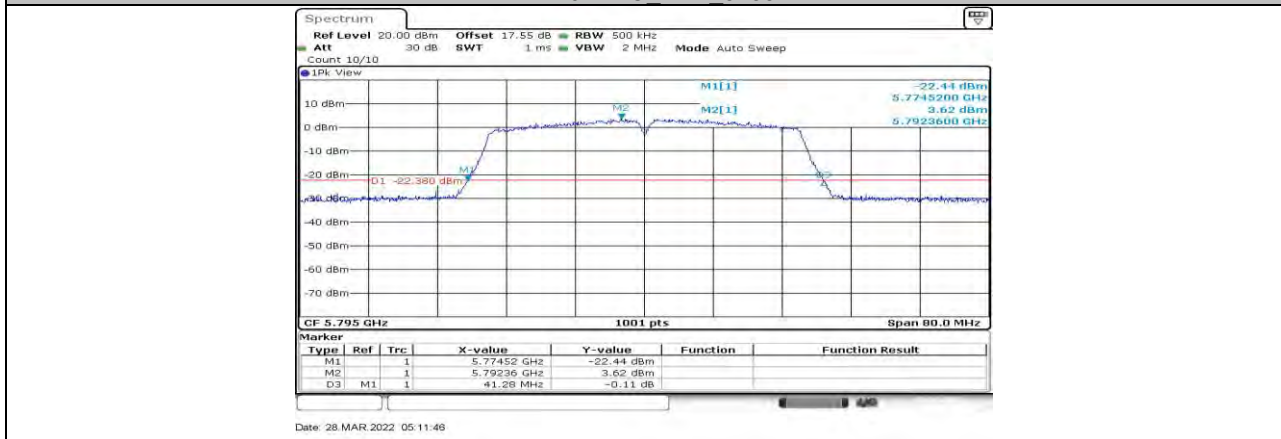
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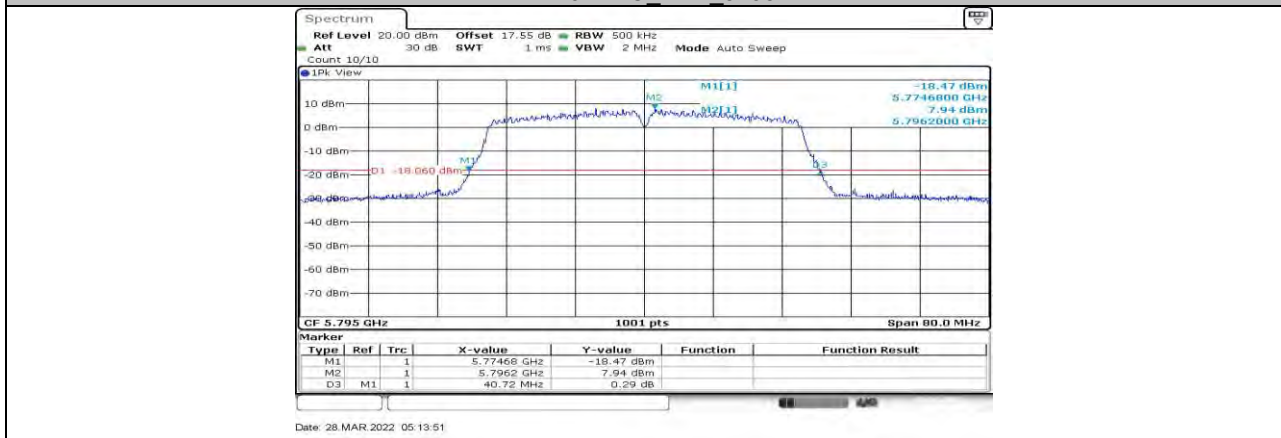
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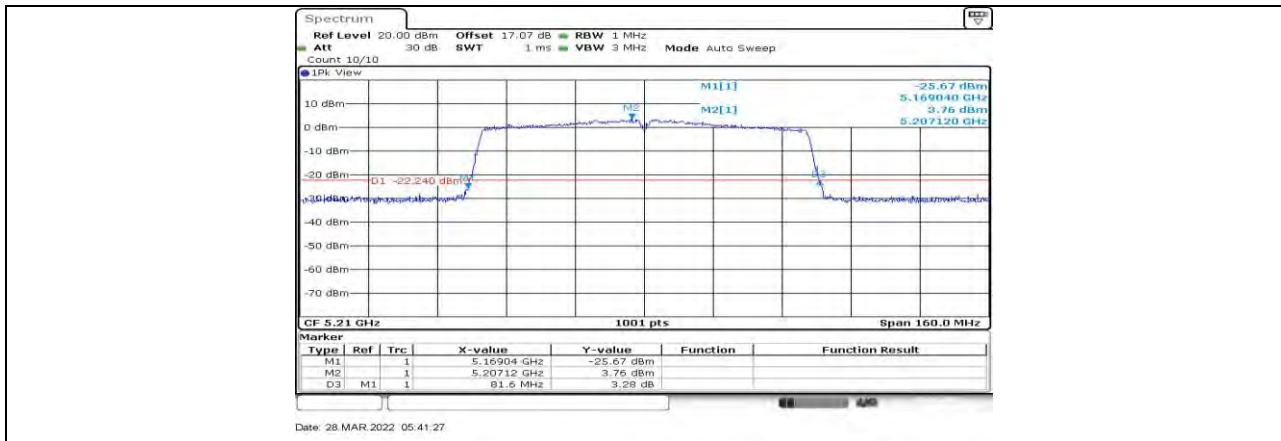
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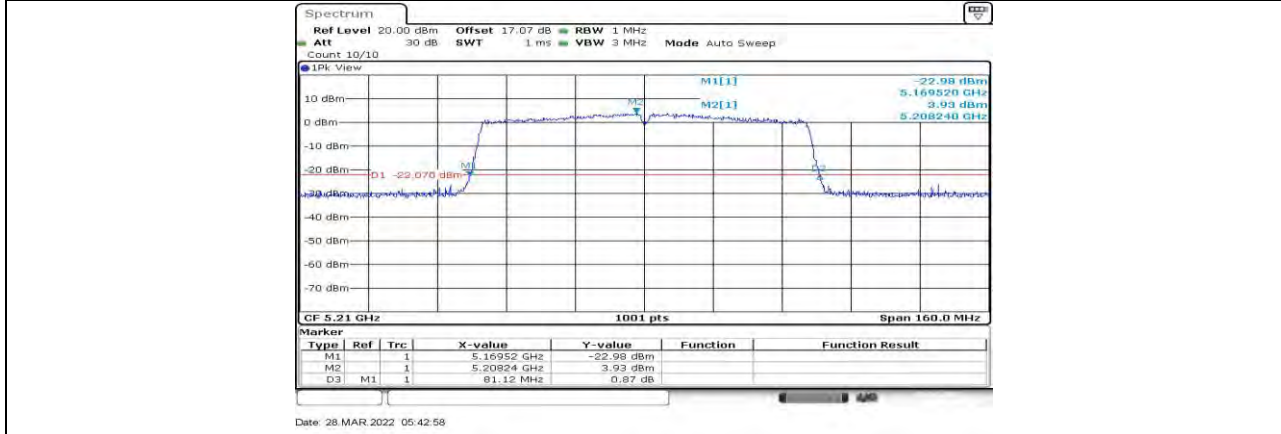
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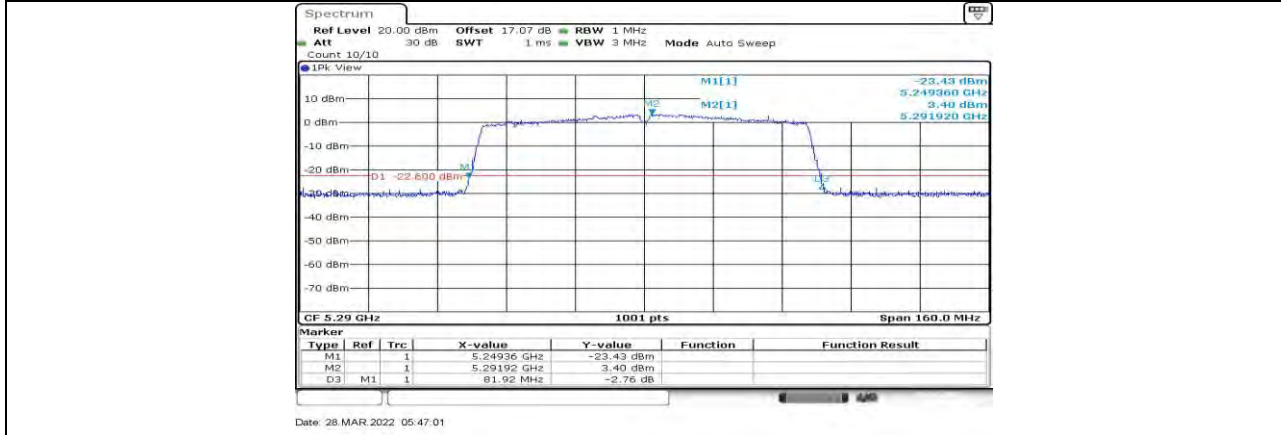
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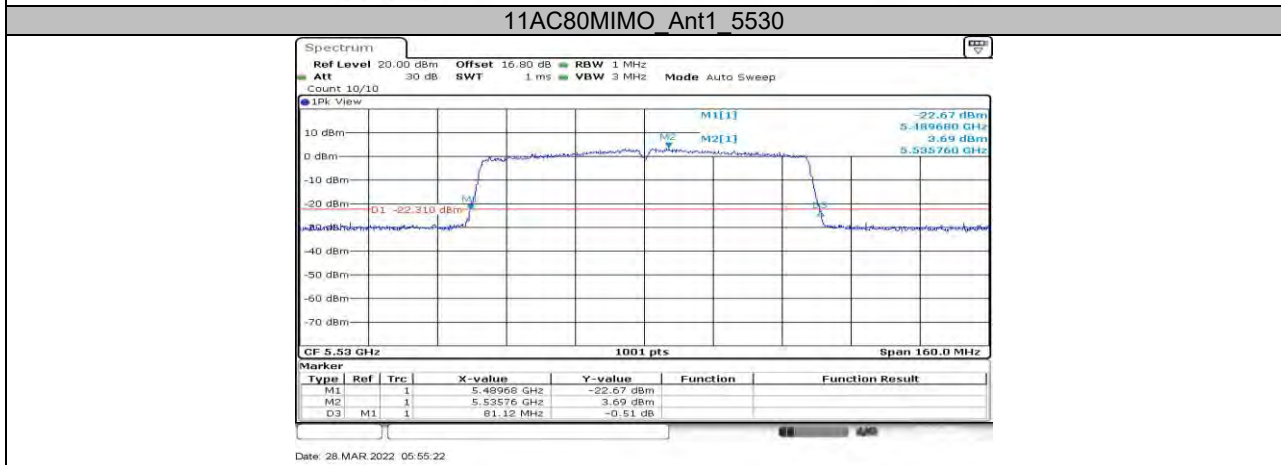
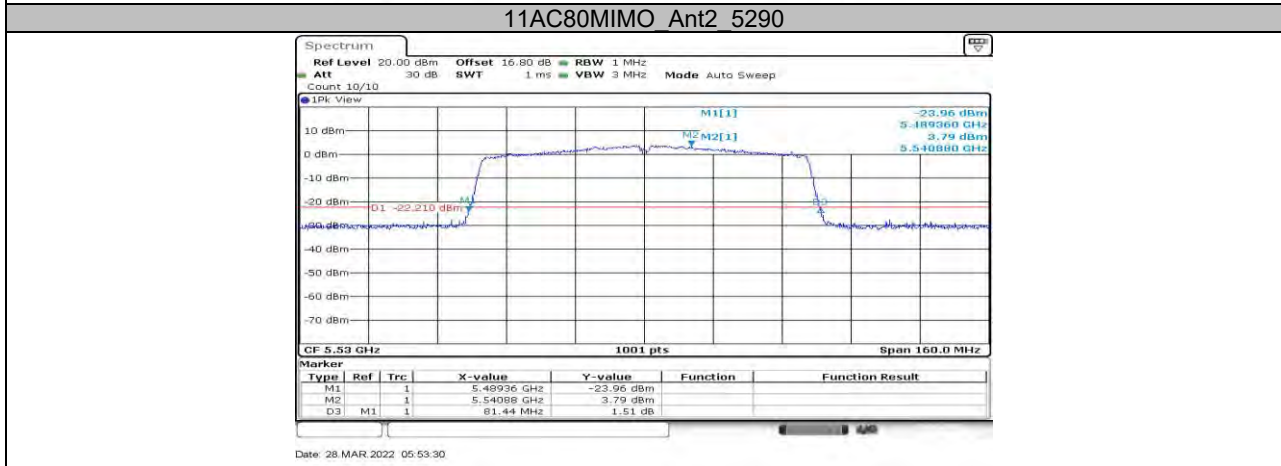
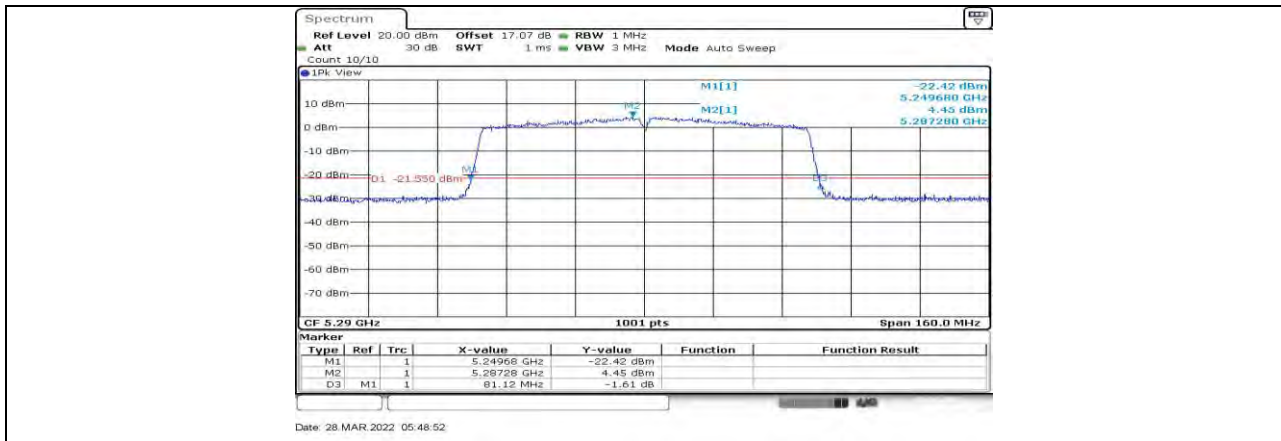
11AC80MIMO Ant1 5210

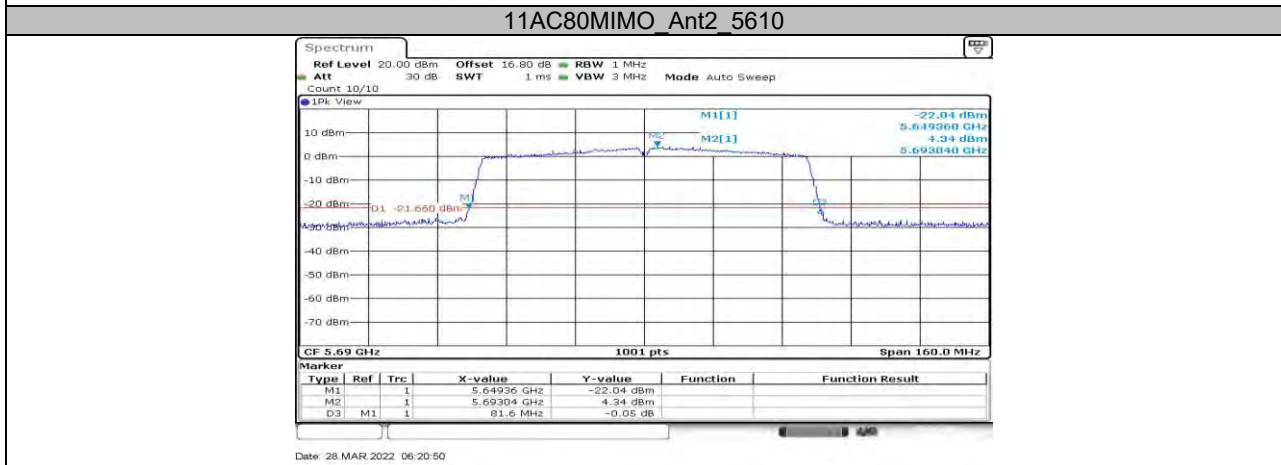
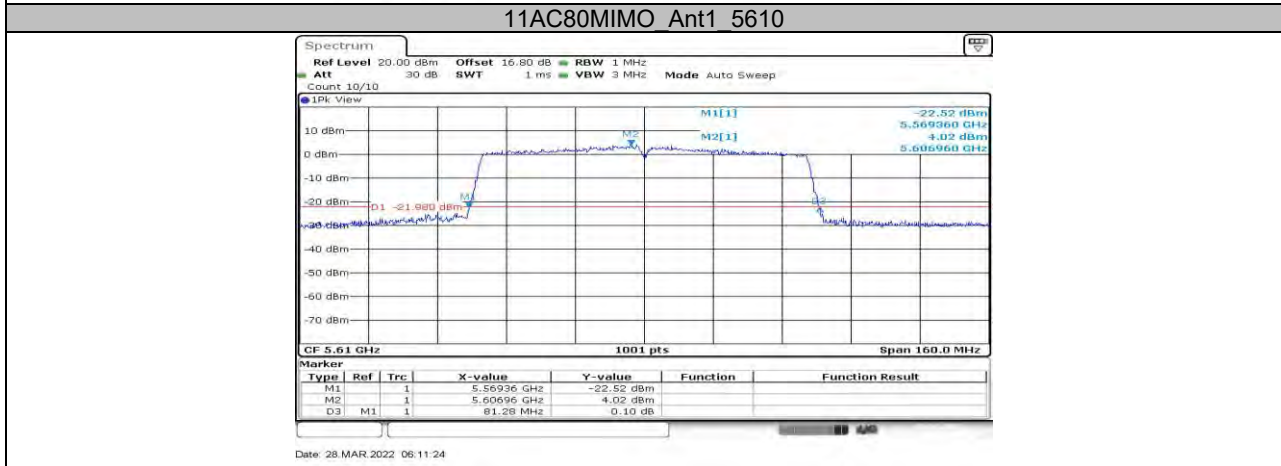
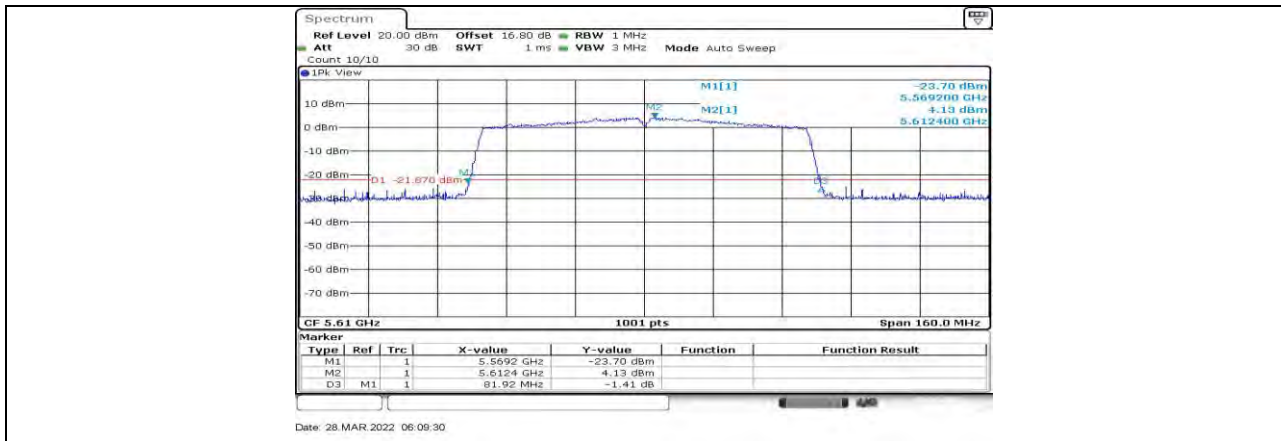


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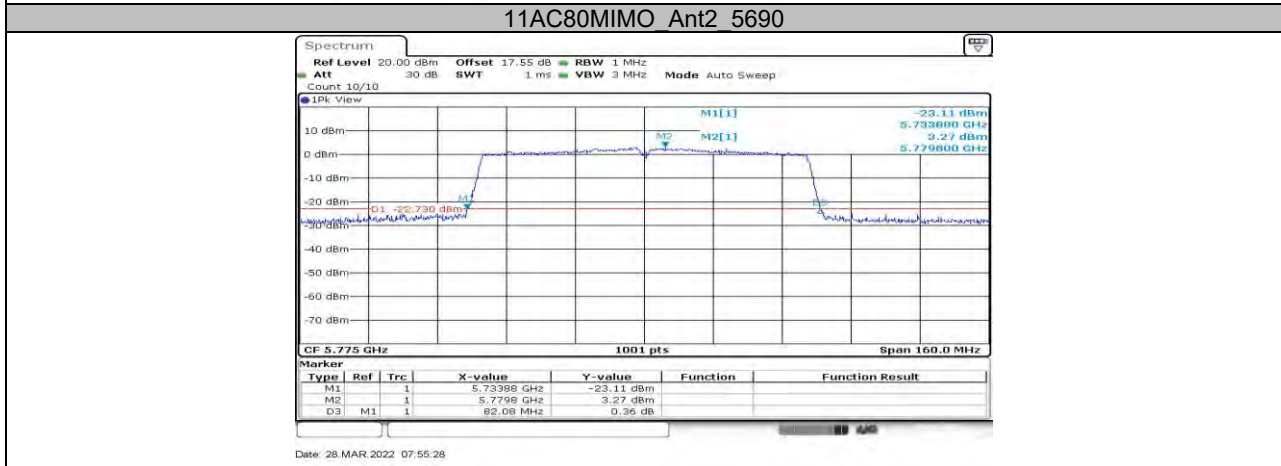
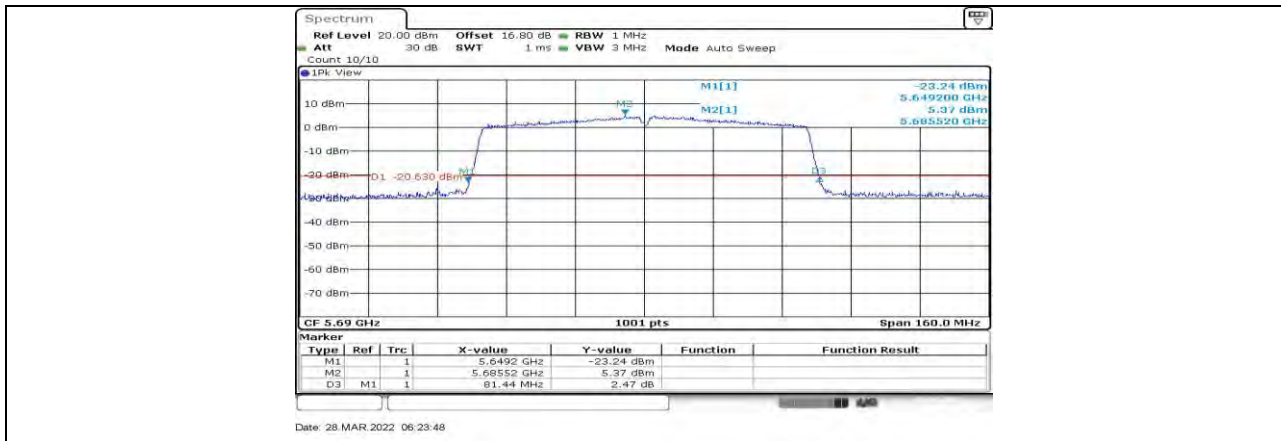


11AC80MIMO Ant1 5290





11AC80MIMO Ant1 5690



11AC80MIMO Ant2 5775

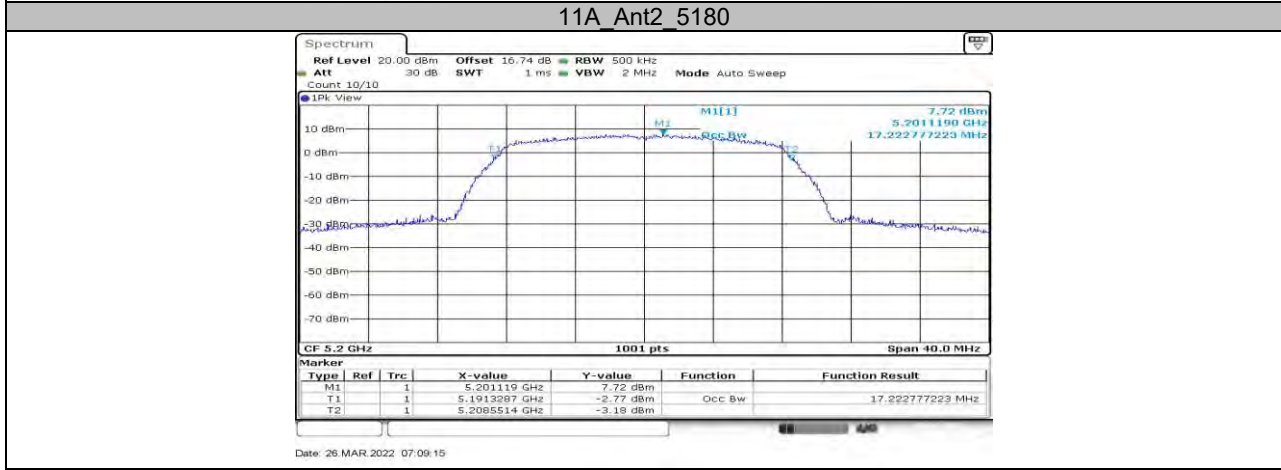
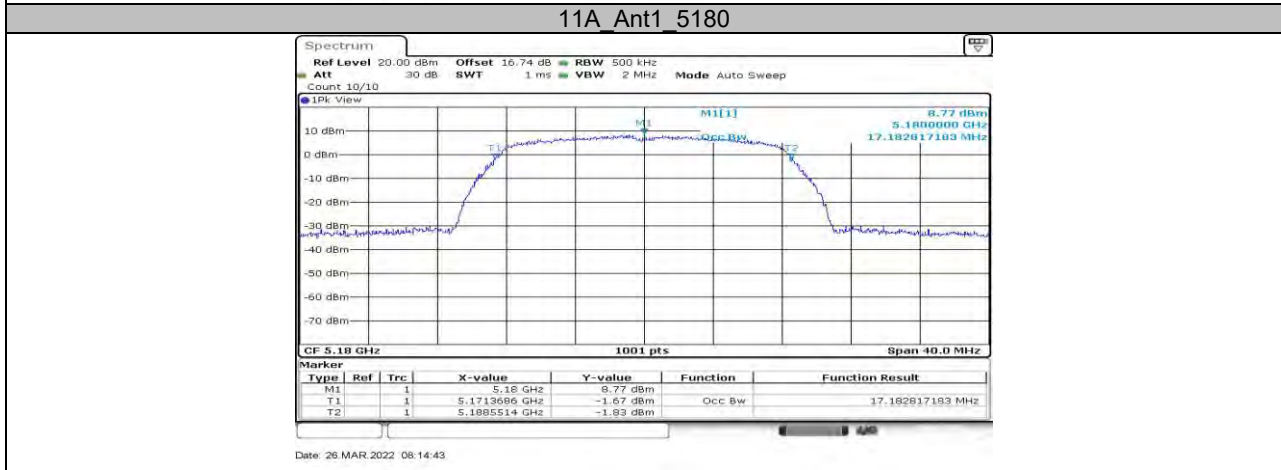
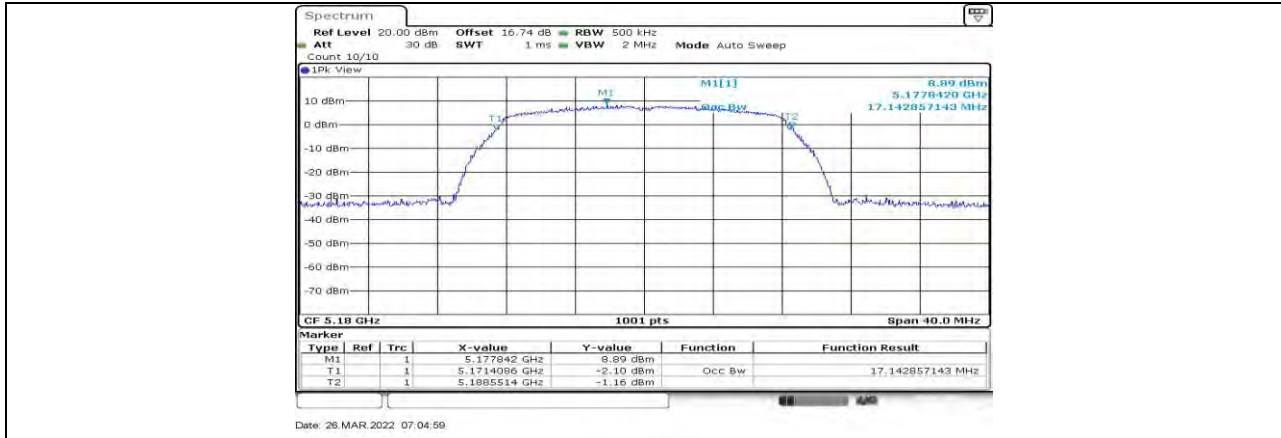
**12.2. Appendix A2: Occupied channel bandwidth****12.2.1. Test Result**

Test Mode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Verdict
11A	Ant1	5180	17.143	5171.409	5188.551	PASS
	Ant2	5180	17.183	5171.369	5188.551	PASS
	Ant1	5200	17.223	5191.329	5208.551	PASS
	Ant2	5200	17.263	5191.329	5208.591	PASS
	Ant1	5240	17.263	5231.329	5248.591	PASS
	Ant2	5240	17.183	5231.369	5248.551	PASS
	Ant1	5260	17.303	5251.329	5268.631	PASS
	Ant2	5260	17.263	5251.369	5268.631	PASS
	Ant1	5280	17.263	5271.369	5288.631	PASS
	Ant2	5280	17.223	5271.369	5288.591	PASS
	Ant1	5320	17.183	5311.369	5328.551	PASS
	Ant2	5320	17.263	5311.329	5328.591	PASS
	Ant1	5500	17.223	5491.409	5508.631	PASS
	Ant2	5500	17.263	5491.369	5508.631	PASS
	Ant1	5580	17.263	5571.329	5588.591	PASS
	Ant2	5580	17.303	5571.289	5588.591	PASS
	Ant1	5700	17.223	5691.369	5708.591	PASS
	Ant2	5700	17.223	5691.329	5708.551	PASS
	Ant1	5720	17.223	5711.329	5728.551	PASS
	Ant2	5720	17.223	5711.329	5728.551	PASS
	Ant1	5720 UNII-2C	13.671	5711.329	5725	PASS
	Ant2	5720 UNII-2C	13.671	5711.329	5725	PASS
	Ant1	5720 UNII-3	3.551	5725	5728.551	PASS
	Ant2	5720 UNII-3	3.551	5725	5728.551	PASS
	Ant1	5745	17.263	5736.289	5753.551	PASS
	Ant2	5745	17.223	5736.369	5753.591	PASS
	Ant1	5785	17.303	5776.329	5793.631	PASS
	Ant2	5785	17.223	5776.369	5793.591	PASS
Ant1	5825	17.223	5816.369	5833.591	PASS	
Ant2	5825	17.183	5816.369	5833.551	PASS	
11N20MIMO	Ant1	5180	18.022	5170.969	5188.991	PASS
	Ant2	5180	17.782	5171.089	5188.871	PASS
	Ant1	5200	18.062	5190.969	5209.031	PASS
	Ant2	5200	17.822	5191.089	5208.911	PASS
	Ant1	5240	18.062	5230.969	5249.031	PASS
	Ant2	5240	17.782	5231.129	5248.911	PASS
	Ant1	5260	18.102	5250.969	5269.071	PASS
	Ant2	5260	17.782	5251.129	5268.911	PASS
	Ant1	5280	18.102	5271.009	5289.111	PASS
	Ant2	5280	17.782	5271.129	5288.911	PASS
	Ant1	5320	18.062	5310.969	5329.031	PASS
	Ant2	5320	17.782	5311.129	5328.911	PASS
	Ant1	5500	18.062	5491.049	5509.111	PASS
	Ant2	5500	17.822	5491.129	5508.951	PASS
	Ant1	5580	18.022	5571.009	5589.031	PASS
	Ant2	5580	17.782	5571.129	5588.911	PASS
	Ant1	5700	18.062	5691.009	5709.071	PASS
	Ant2	5700	17.822	5691.129	5708.951	PASS
	Ant1	5720	18.102	5710.969	5729.071	PASS
	Ant2	5720	17.782	5711.129	5728.911	PASS
Ant1	5720 UNII-2C	14.031	5710.969	5725	PASS	
Ant2	5720 UNII-2C	13.871	5711.129	5725	PASS	



	Ant1	5720 UNII-3	4.071	5725	5729.071	PASS
	Ant2	5720 UNII-3	3.911	5725	5728.911	PASS
	Ant1	5745	18.062	5735.969	5754.031	PASS
	Ant2	5745	17.822	5736.129	5753.951	PASS
	Ant1	5785	18.102	5775.969	5794.071	PASS
	Ant2	5785	17.822	5776.129	5793.951	PASS
	Ant1	5825	18.062	5816.009	5834.071	PASS
	Ant2	5825	17.782	5816.169	5833.951	PASS
11N40MIMO	Ant1	5190	36.284	5171.858	5208.142	PASS
	Ant2	5190	36.364	5171.858	5208.222	PASS
	Ant1	5230	36.603	5211.698	5248.302	PASS
	Ant2	5230	36.284	5211.938	5248.222	PASS
	Ant1	5270	36.523	5251.778	5288.302	PASS
	Ant2	5270	36.364	5251.858	5288.222	PASS
	Ant1	5310	36.284	5291.858	5328.142	PASS
	Ant2	5310	36.284	5291.938	5328.222	PASS
	Ant1	5510	36.444	5491.938	5528.382	PASS
	Ant2	5510	36.444	5491.858	5528.302	PASS
	Ant1	5590	36.603	5571.778	5608.382	PASS
	Ant2	5590	36.364	5571.778	5608.142	PASS
	Ant1	5670	36.603	5651.698	5688.302	PASS
	Ant2	5670	36.364	5651.938	5688.302	PASS
	Ant1	5710	36.523	5691.778	5728.302	PASS
	Ant2	5710	36.444	5691.858	5728.302	PASS
	Ant1	5710 UNII-2C	33.222	5691.778	5725	PASS
	Ant2	5710 UNII-2C	33.142	5691.858	5725	PASS
	Ant1	5710 UNII-3	3.302	5725	5728.302	PASS
	Ant2	5710 UNII-3	3.302	5725	5728.302	PASS
11AC80MIMO	Ant1	5755	36.683	5736.618	5773.302	PASS
	Ant2	5755	36.523	5736.858	5773.382	PASS
	Ant1	5795	36.603	5776.858	5813.462	PASS
	Ant2	5795	36.444	5776.858	5813.302	PASS
	Ant1	5210	75.445	5172.278	5247.722	PASS
	Ant2	5210	75.445	5172.278	5247.722	PASS
	Ant1	5290	75.445	5252.438	5327.882	PASS
	Ant2	5290	75.604	5252.278	5327.882	PASS
	Ant1	5530	75.285	5492.438	5567.722	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	75.604	5652.278	5727.882	PASS
	Ant2	5690	75.285	5652.438	5727.722	PASS
	Ant1	5690 UNII-2C	72.722	5652.278	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	2.722	5725	5727.722	PASS	
Ant1	5775	75.924	5737.118	5813.042	PASS	
Ant2	5775	75.604	5737.278	5812.882	PASS	

12.2.2. Test Graphs





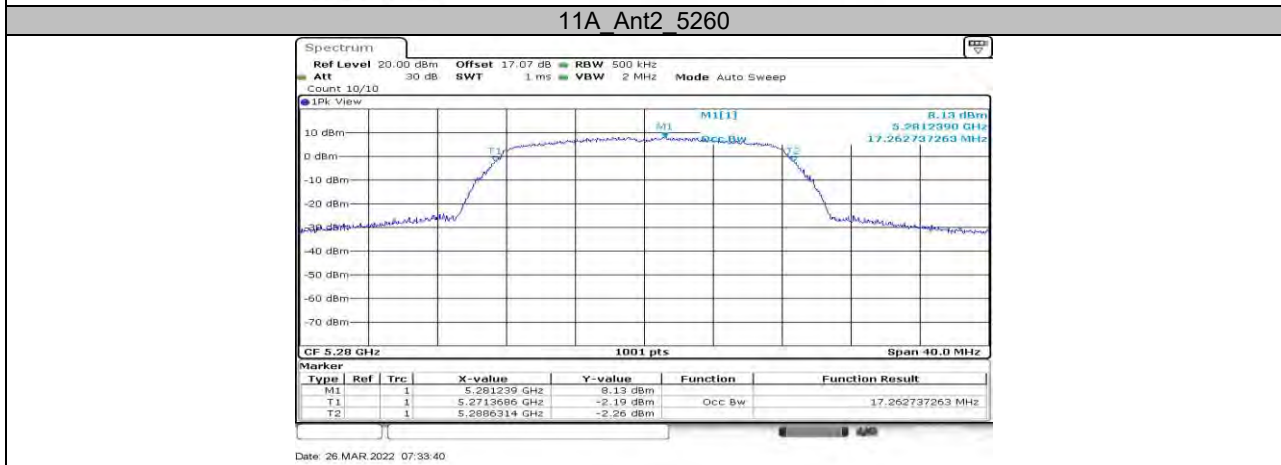
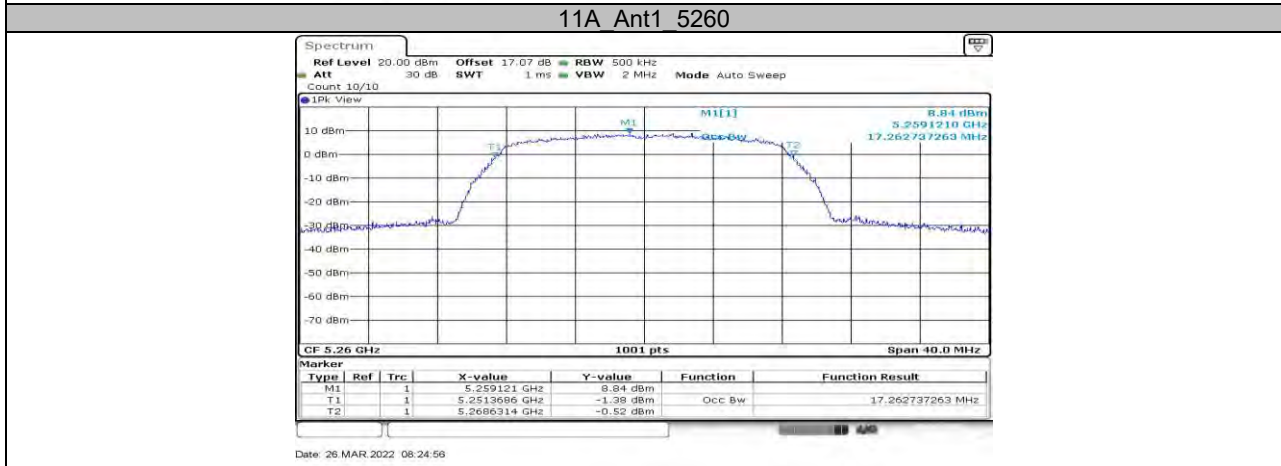
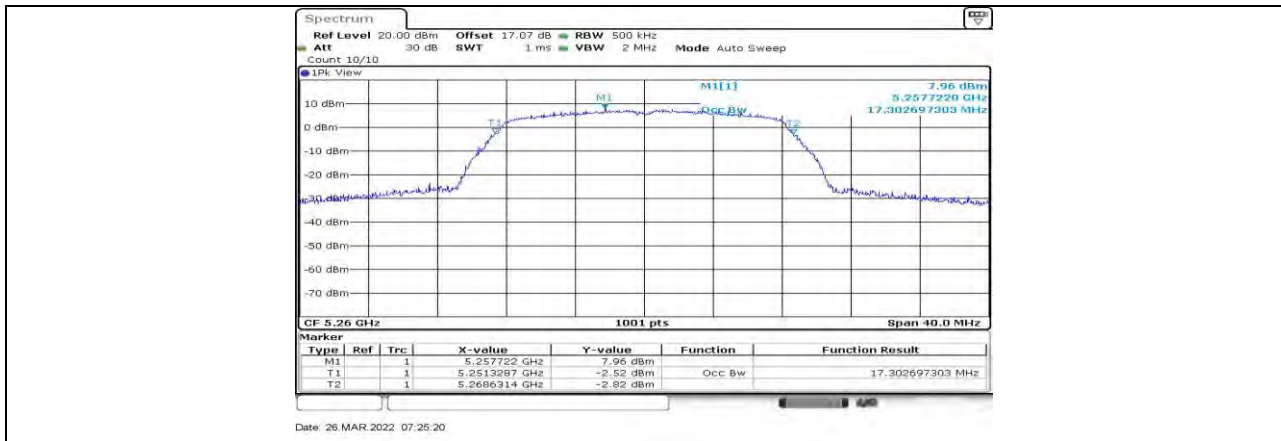
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11A Ant1 5240

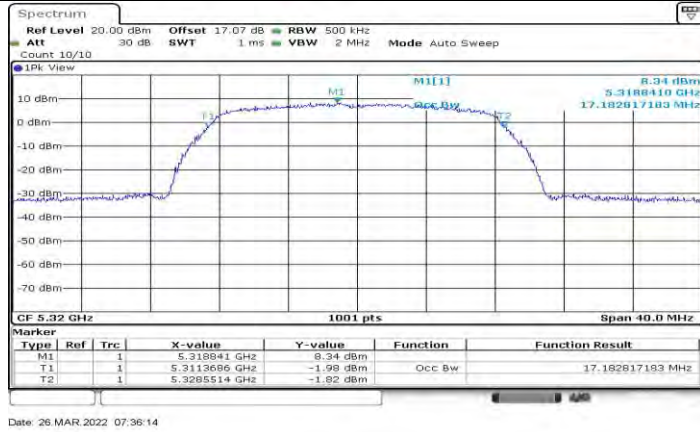


11A Ant2 5240

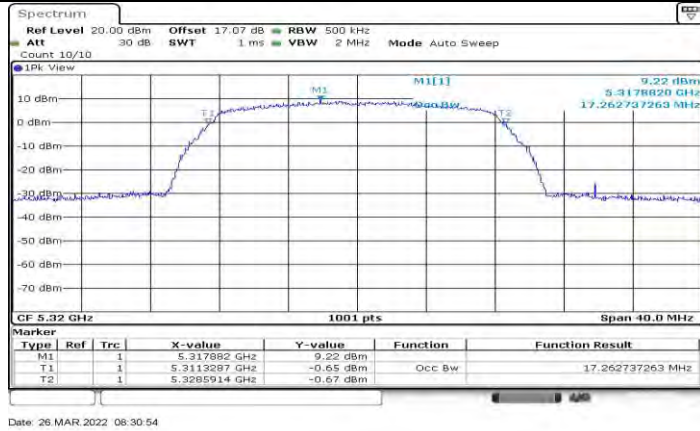




11A Ant2 5280



11A Ant1 5320



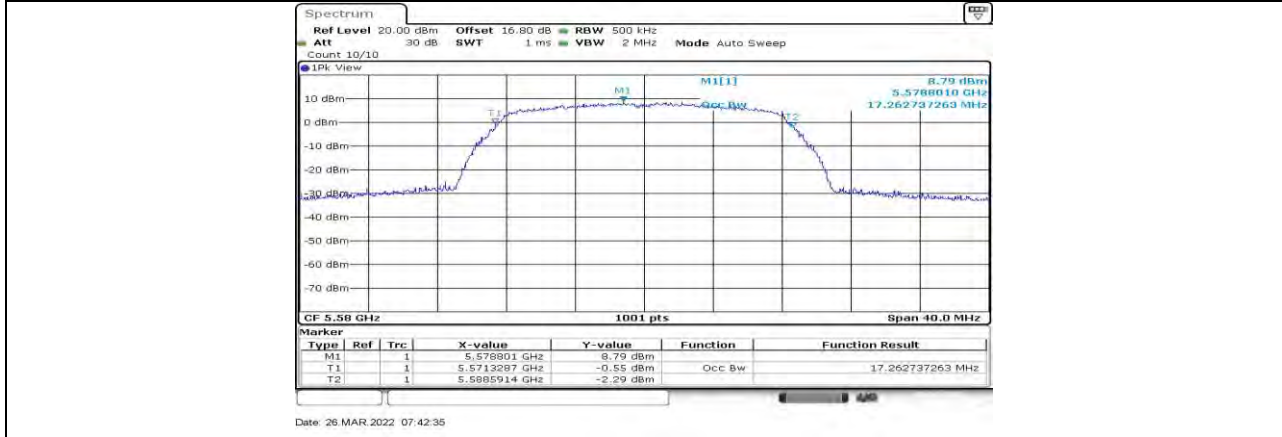
11A Ant2 5320



11A Ant1 5500



11A Ant2 5500



11A Ant1 5580



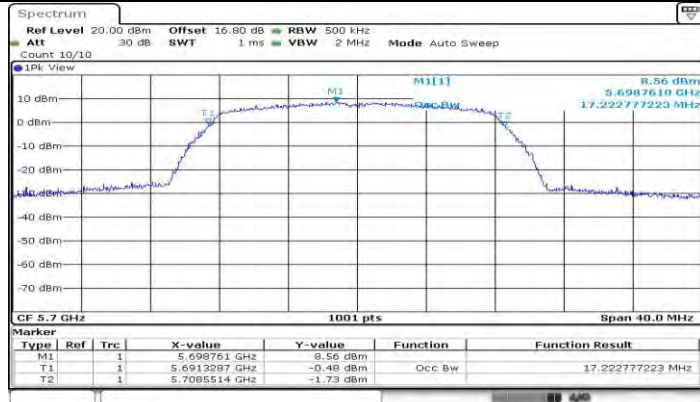
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11A Ant2 5580



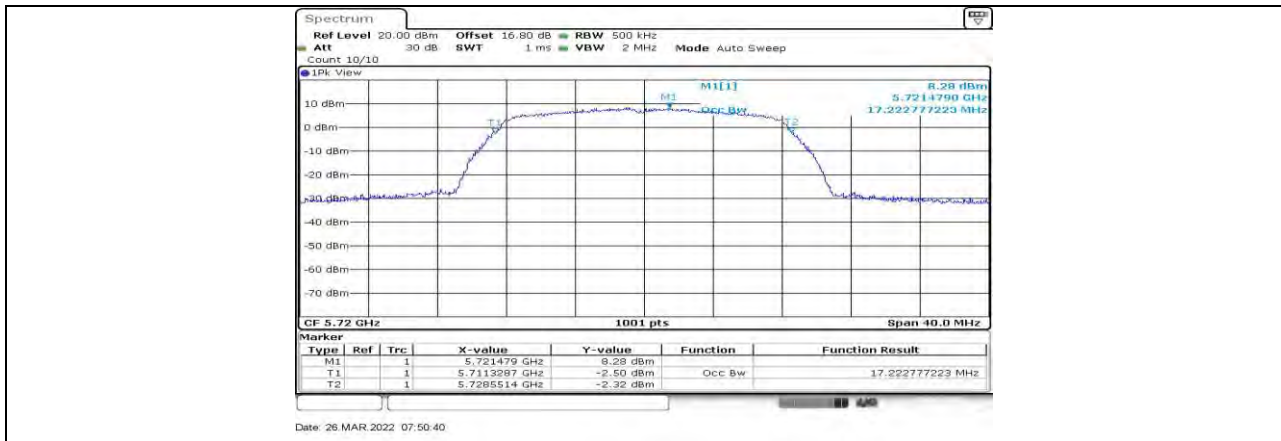
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11A Ant1 5700



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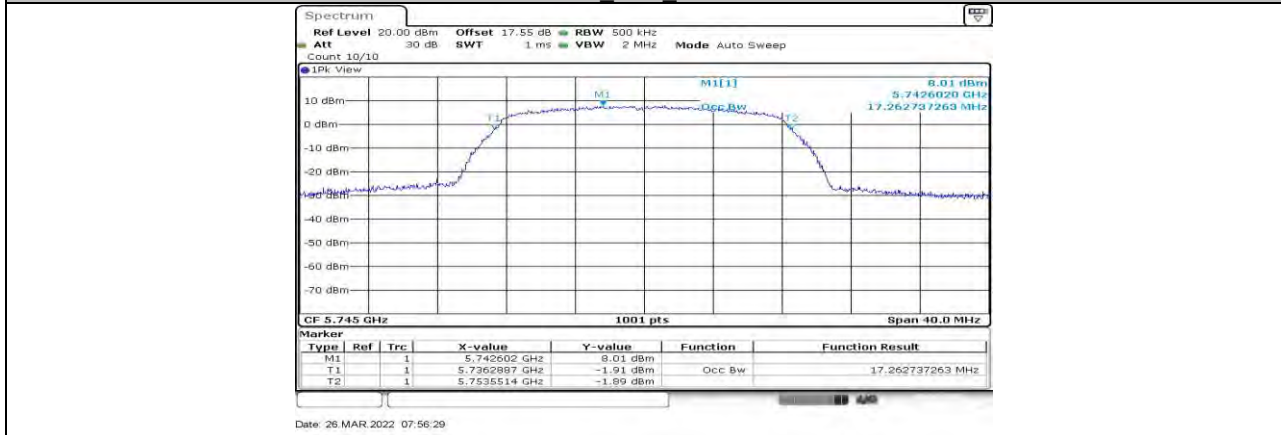
11A Ant2 5700



11A Ant1 5720



11A Ant2 5720



11A Ant1 5745



Date: 26 MAR 2022 09:07:21

11A Ant2 5745



Date: 26 MAR 2022 08:02:03

11A Ant1 5785



Date: 26 MAR 2022 09:15:34

11A Ant2 5785



11A Ant1 5825



11A Ant2 5825



11N20MIMO Ant1 5180