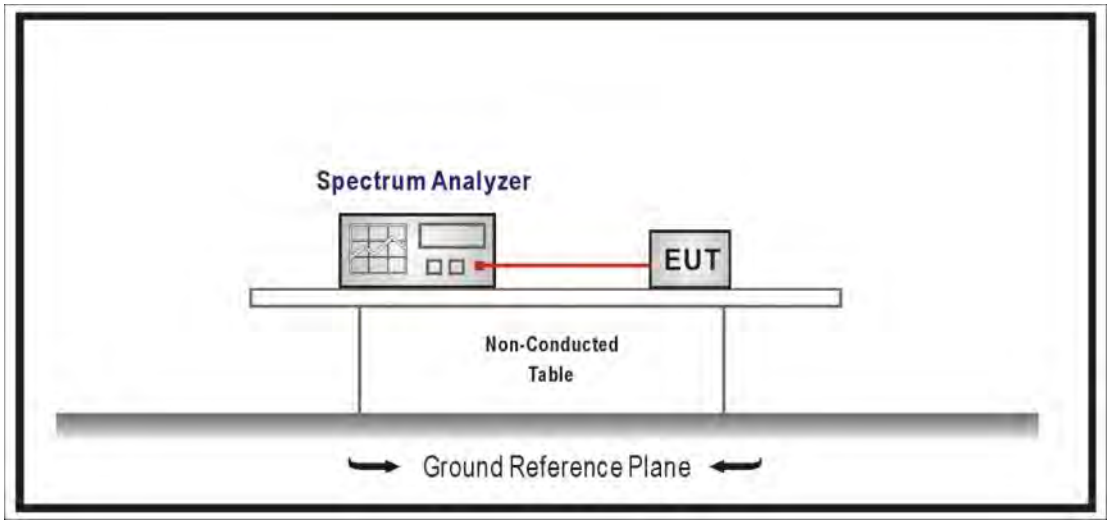
5. RF antenna conducted test

5.1. Test Setup

RF Antenna Conducted Measurement:



5.2. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.3. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure section 11.2 of KDB558074 V05 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.4. Test Specification

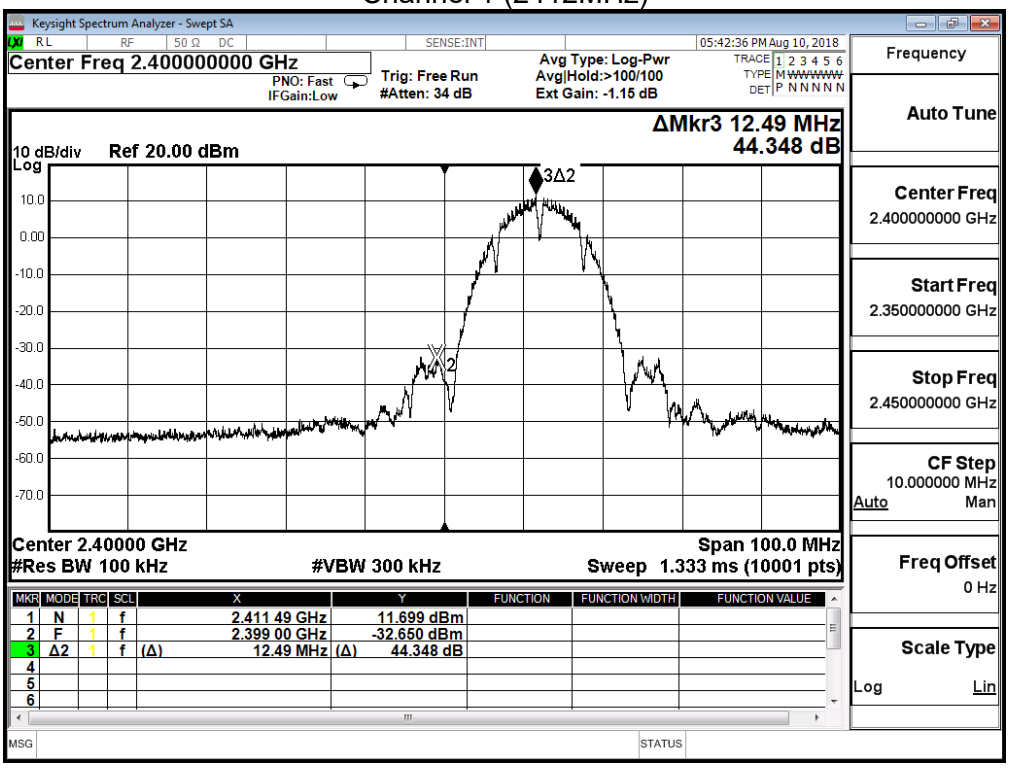
According to FCC Part 15 Subpart C Paragraph 15.247: 2017

5.5. Test Result

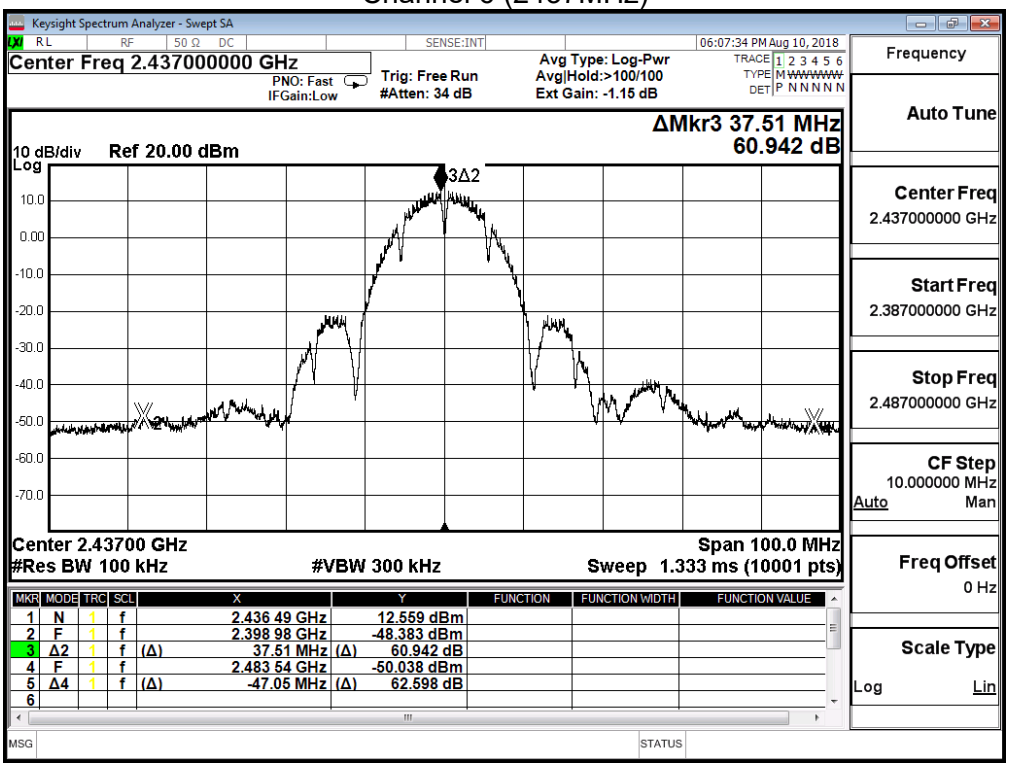
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.348	≧30	Pass
6	2437	60.942	≧30	Pass
11	2462	54.956	≧30	Pass

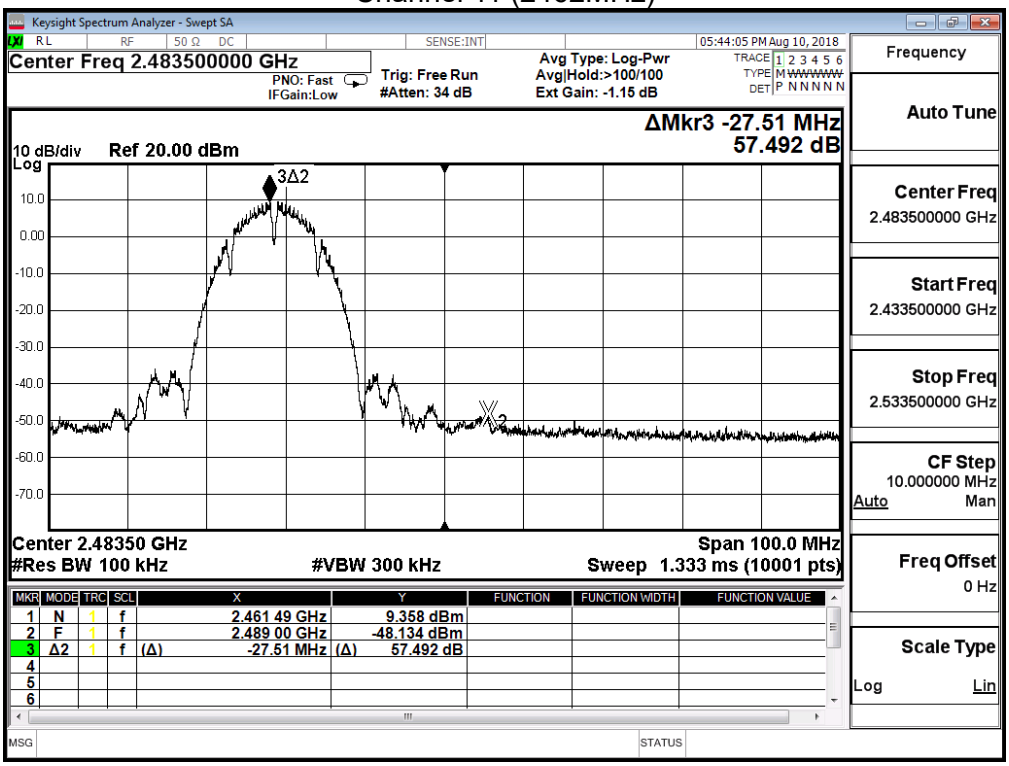
Channel 1 (2412MHz)



Channel 6 (2437MHz)



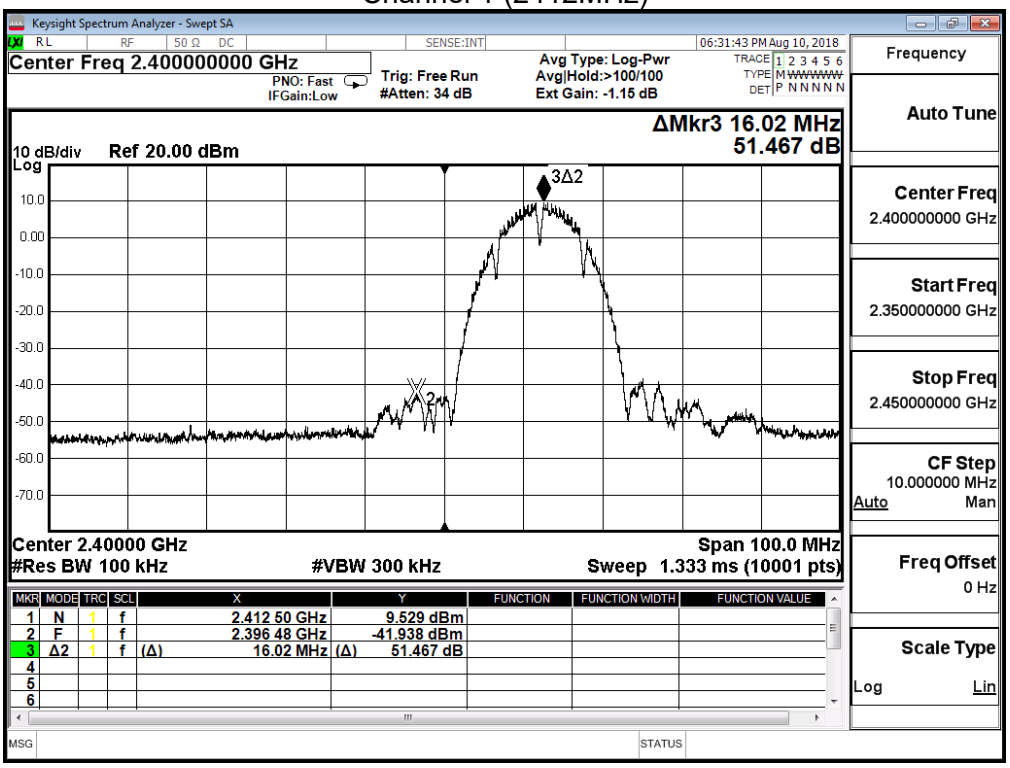
Channel 11 (2462MHz)



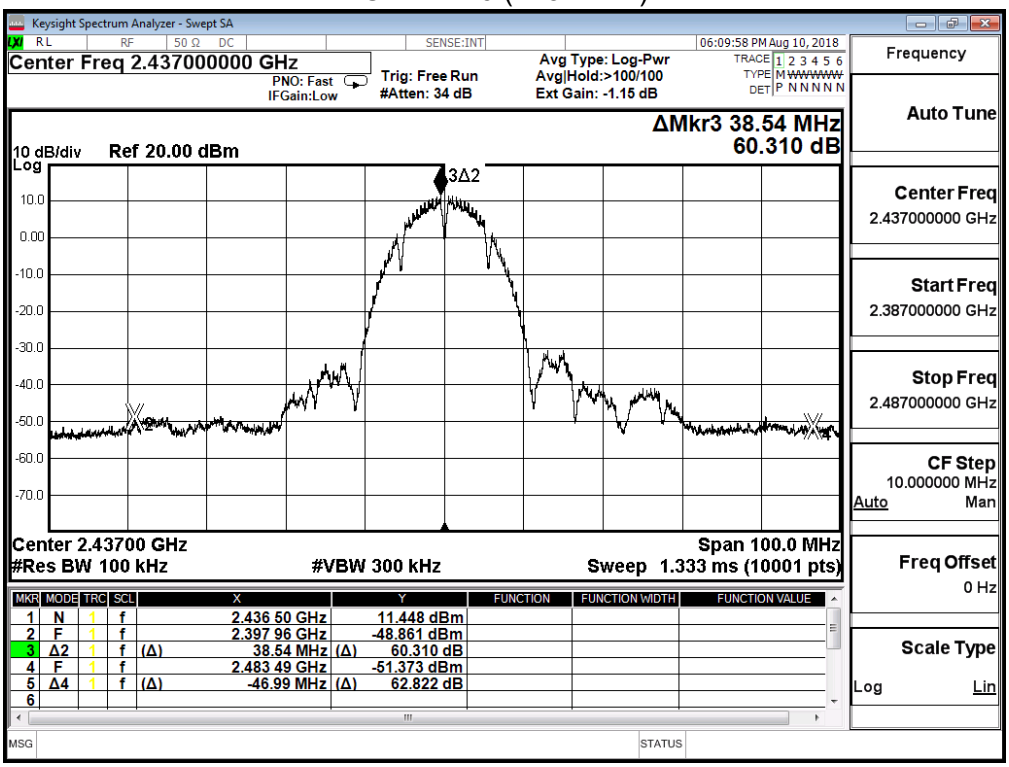
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	51.467	≧30	Pass
6	2437	60.310	≧30	Pass
11	2462	55.427	≧30	Pass

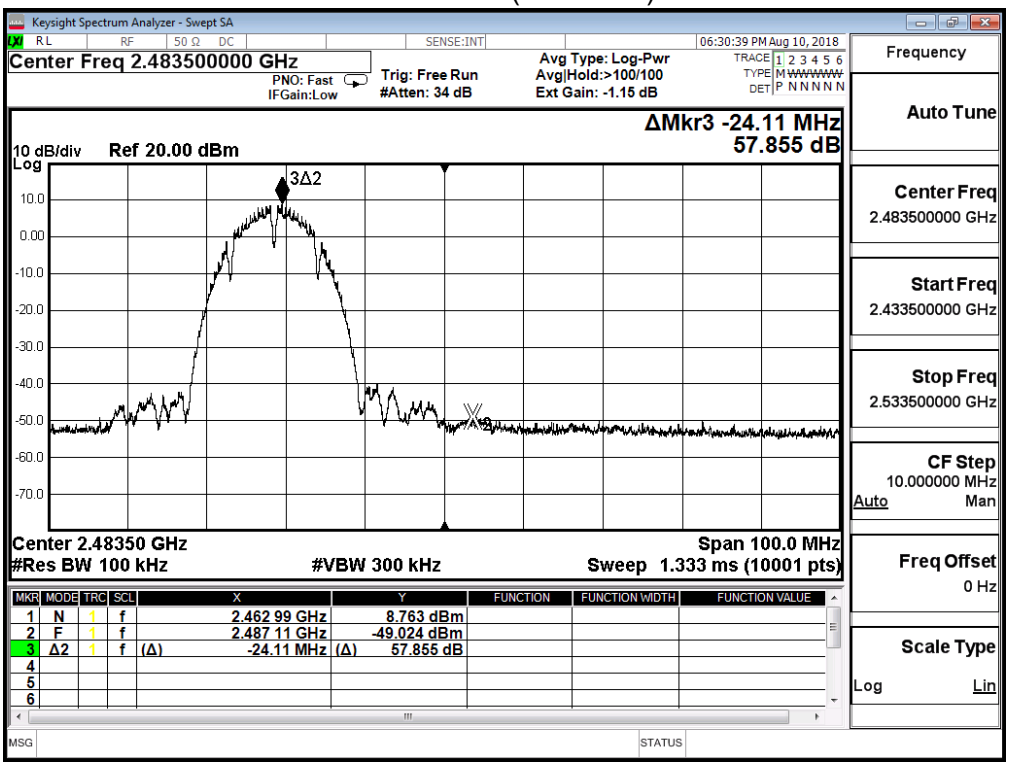
Channel 1 (2412MHz)



Channel 6 (2437MHz)



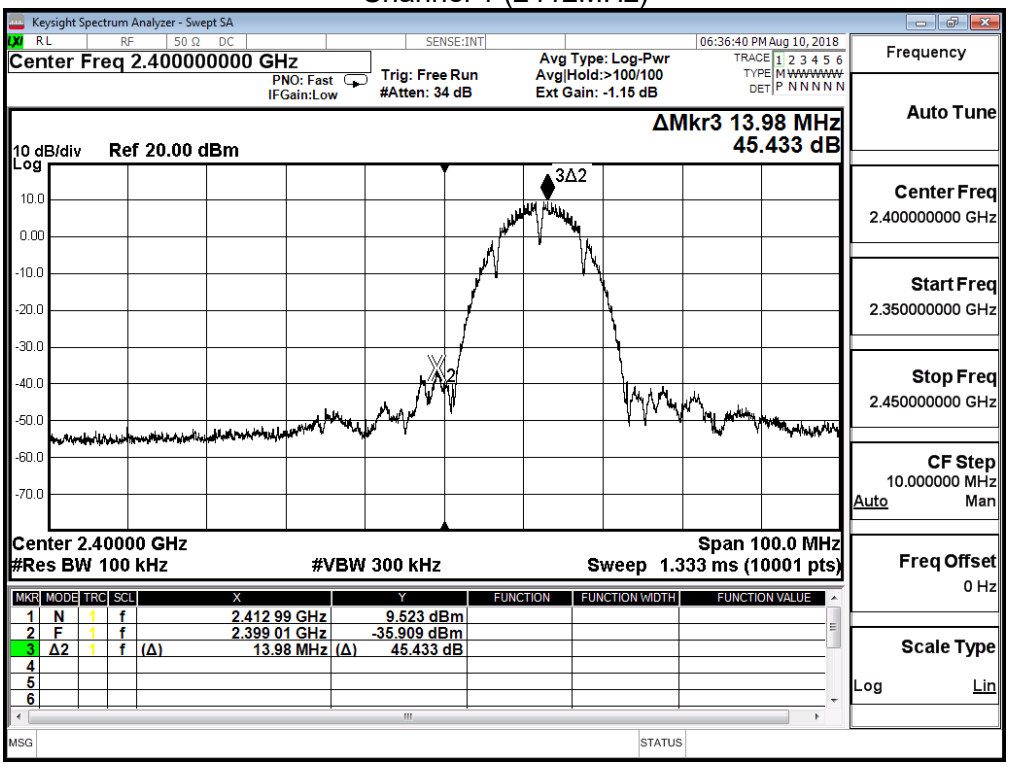
Channel 11 (2462MHz)



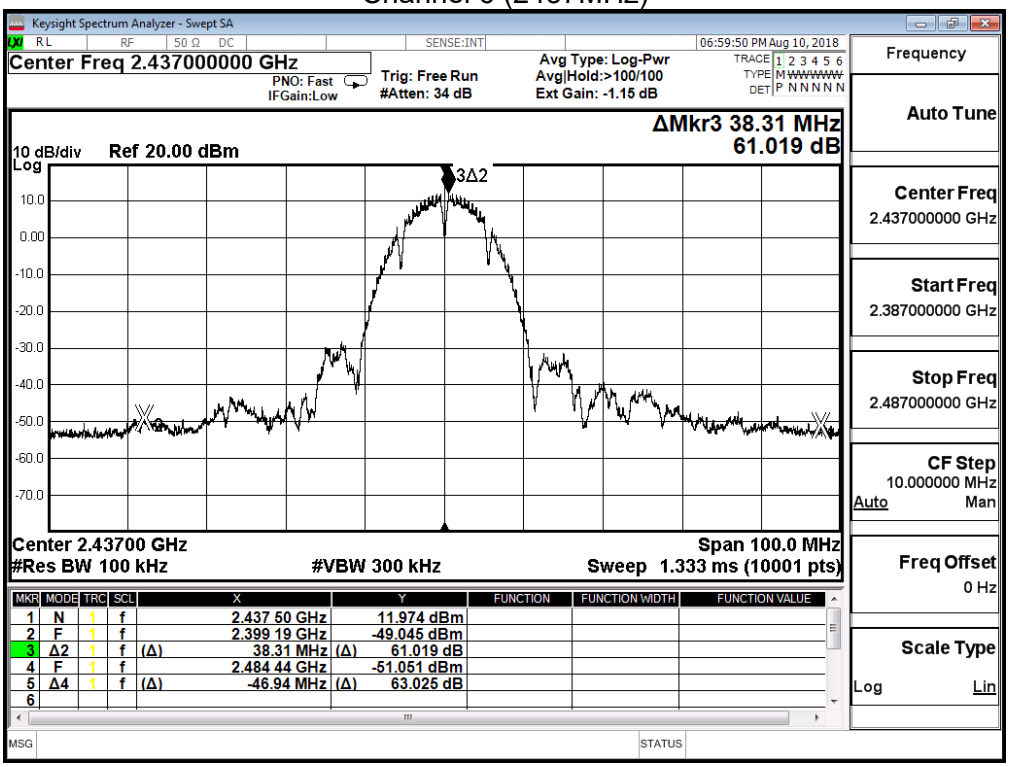
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11b (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	45.433	≧30	Pass
6	2437	61.019	≧30	Pass
11	2462	56.987	≧30	Pass

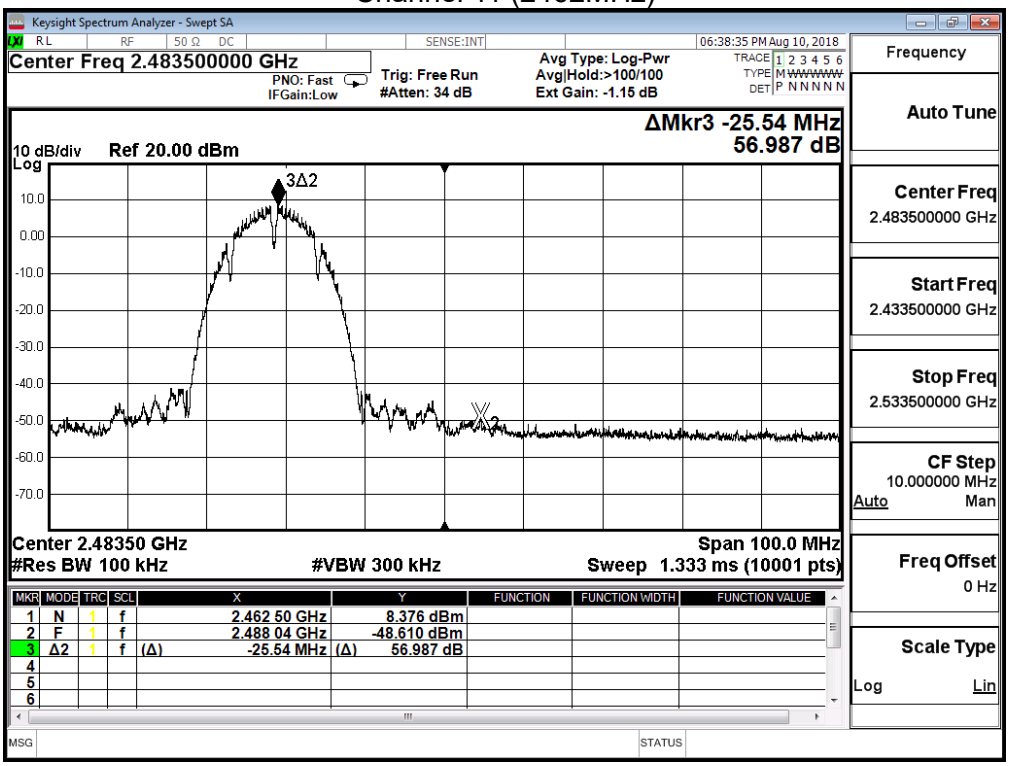
Channel 1 (2412MHz)



Channel 6 (2437MHz)



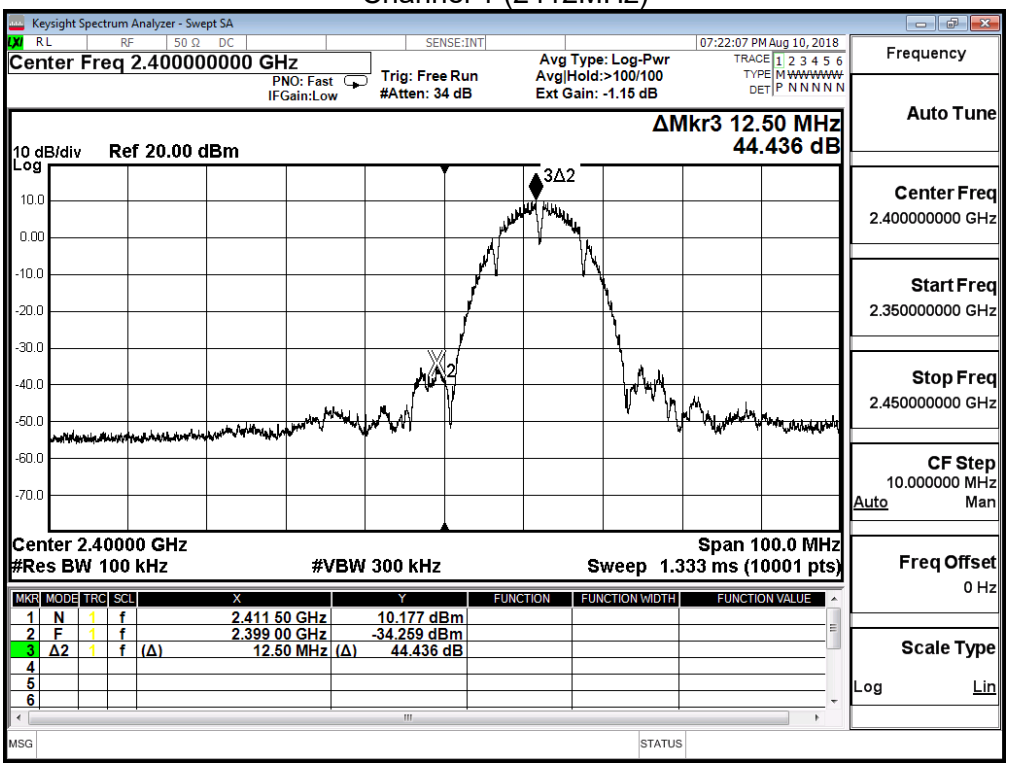
Channel 11 (2462MHz)



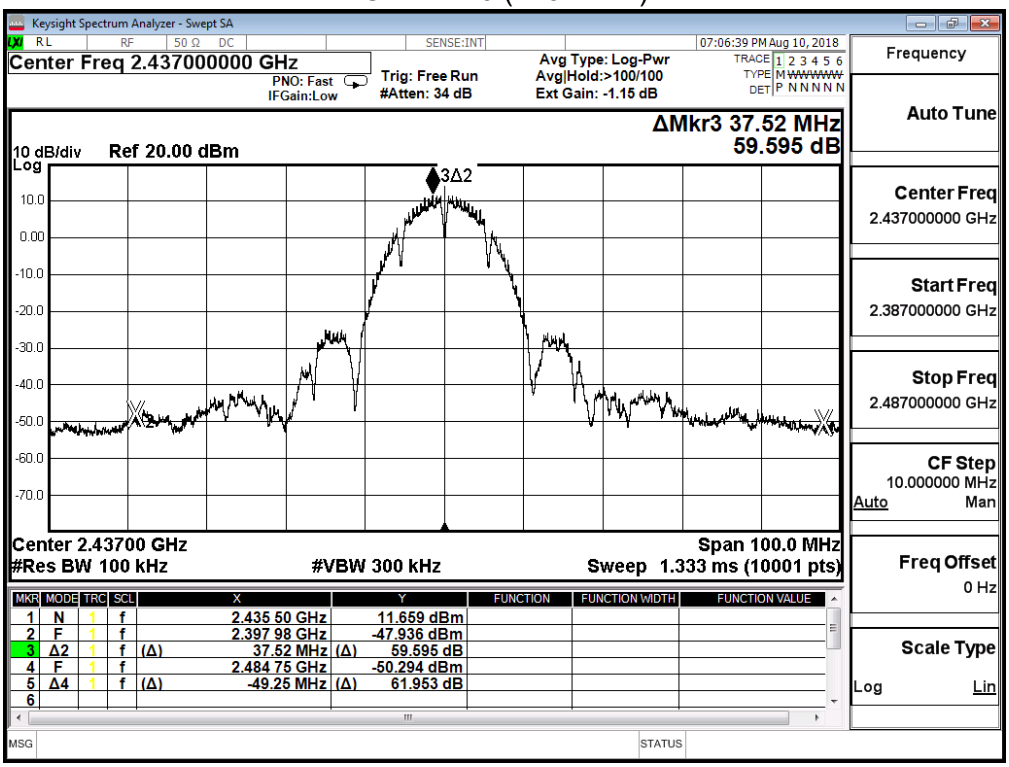
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11b (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.436	≧30	Pass
6	2437	59.595	≧30	Pass
11	2462	55.417	≧30	Pass

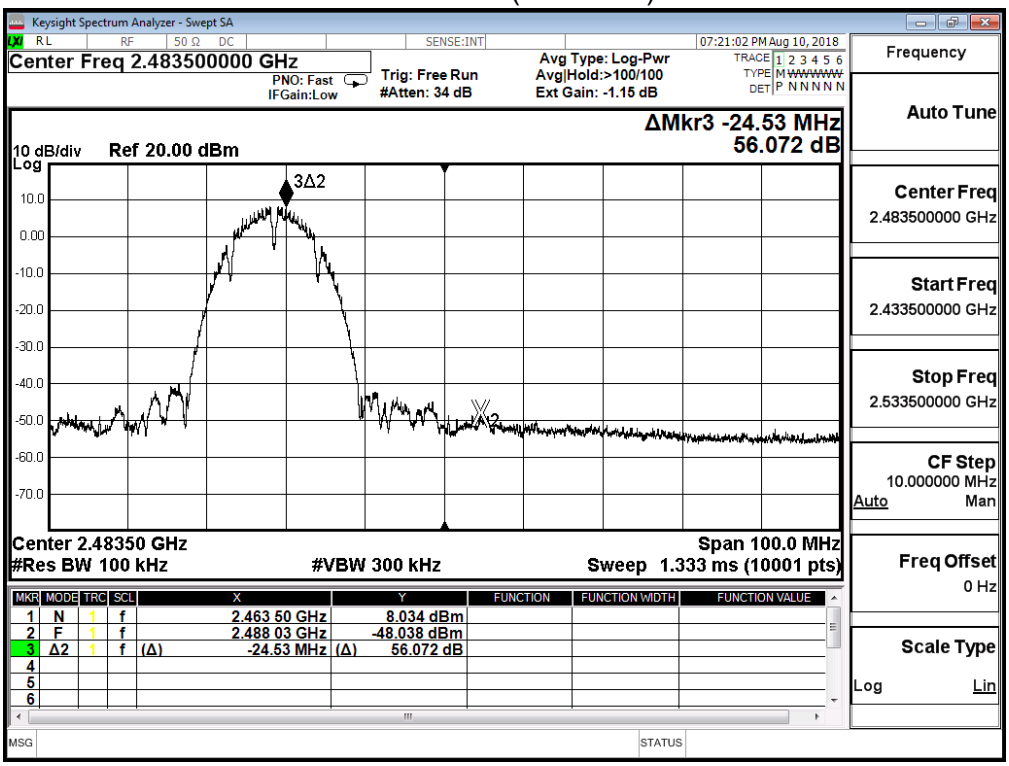
Channel 1 (2412MHz)



Channel 6 (2437MHz)



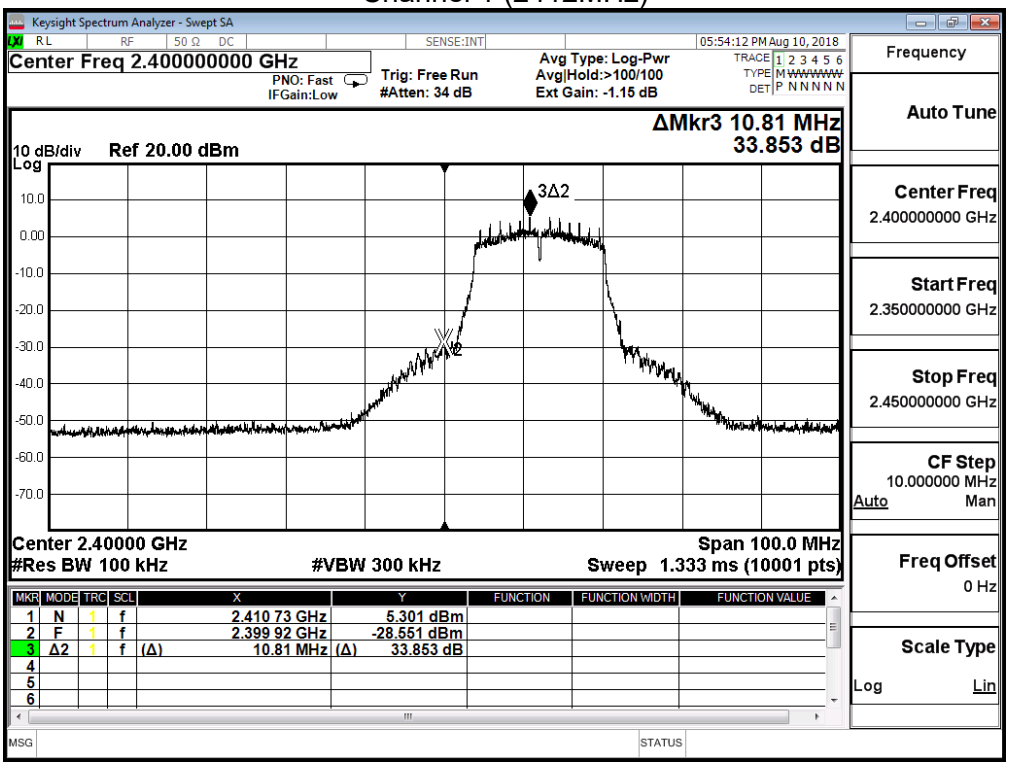
Channel 11 (2462MHz)



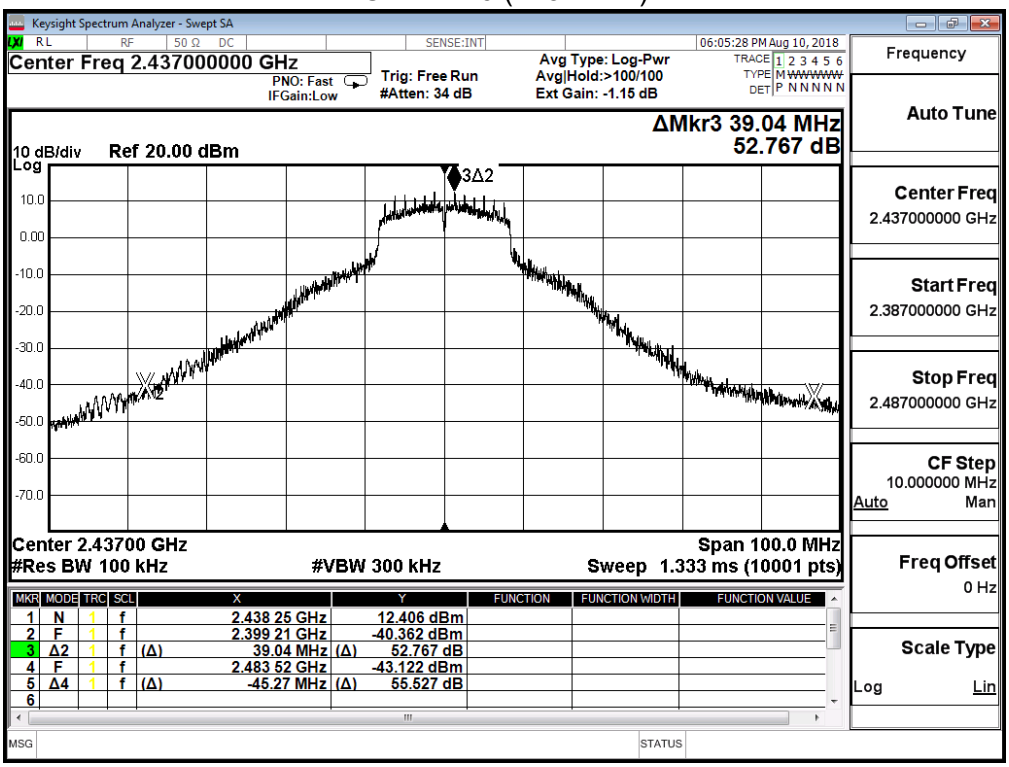
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11g (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.853	≧30	Pass
6	2437	52.767	≧30	Pass
11	2462	50.082	≧30	Pass

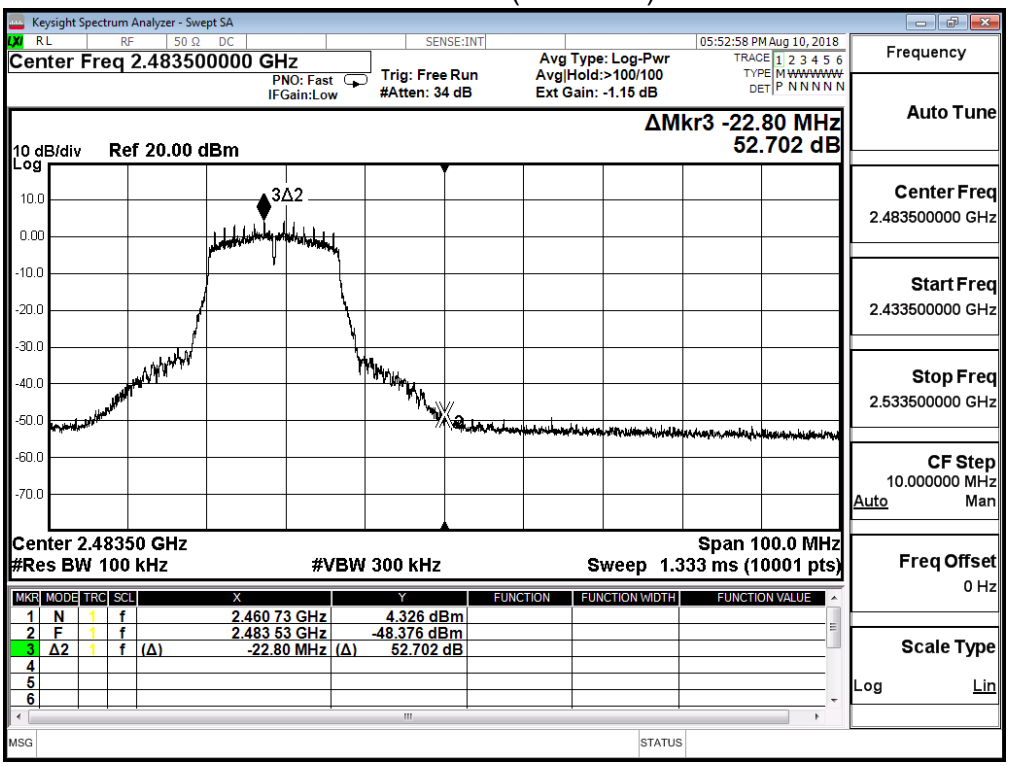
Channel 1 (2412MHz)



Channel 6 (2437MHz)



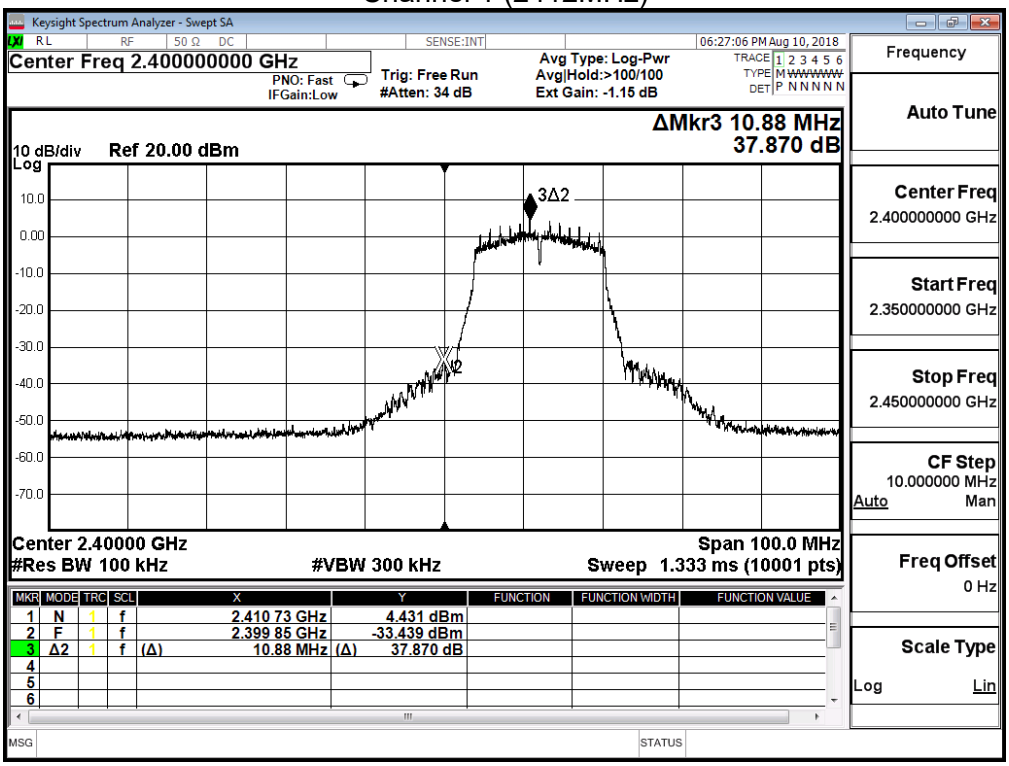
Channel 11 (2462MHz)



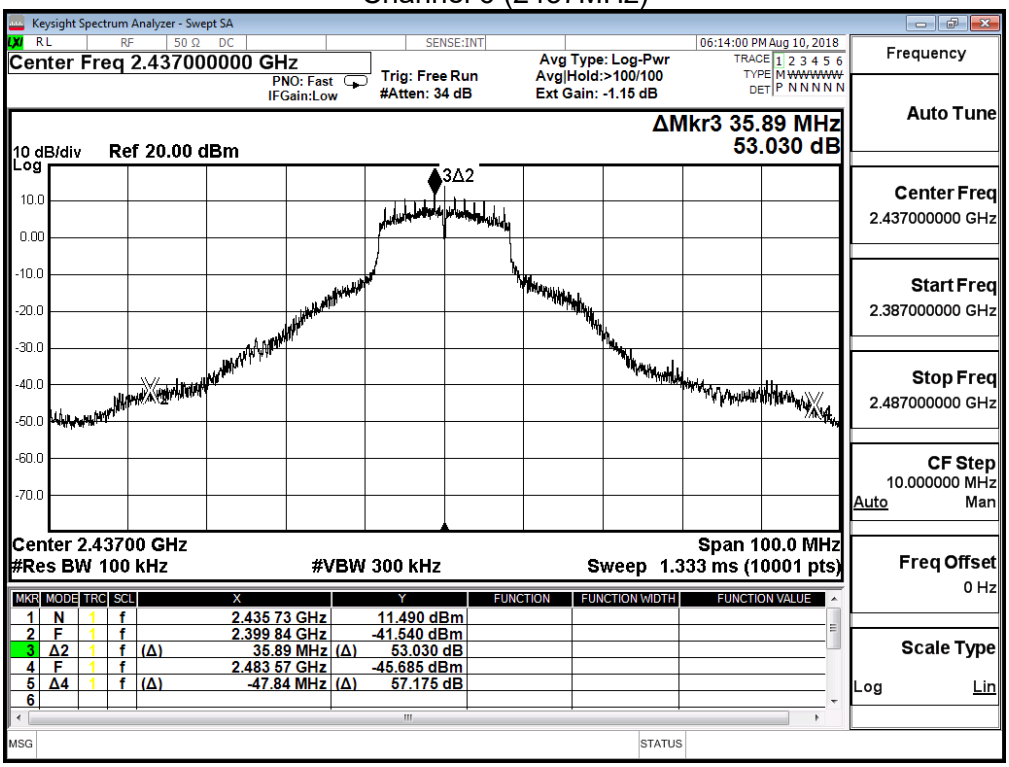
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11g (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.870	≧30	Pass
6	2437	53.030	≧30	Pass
11	2462	50.554	≧30	Pass

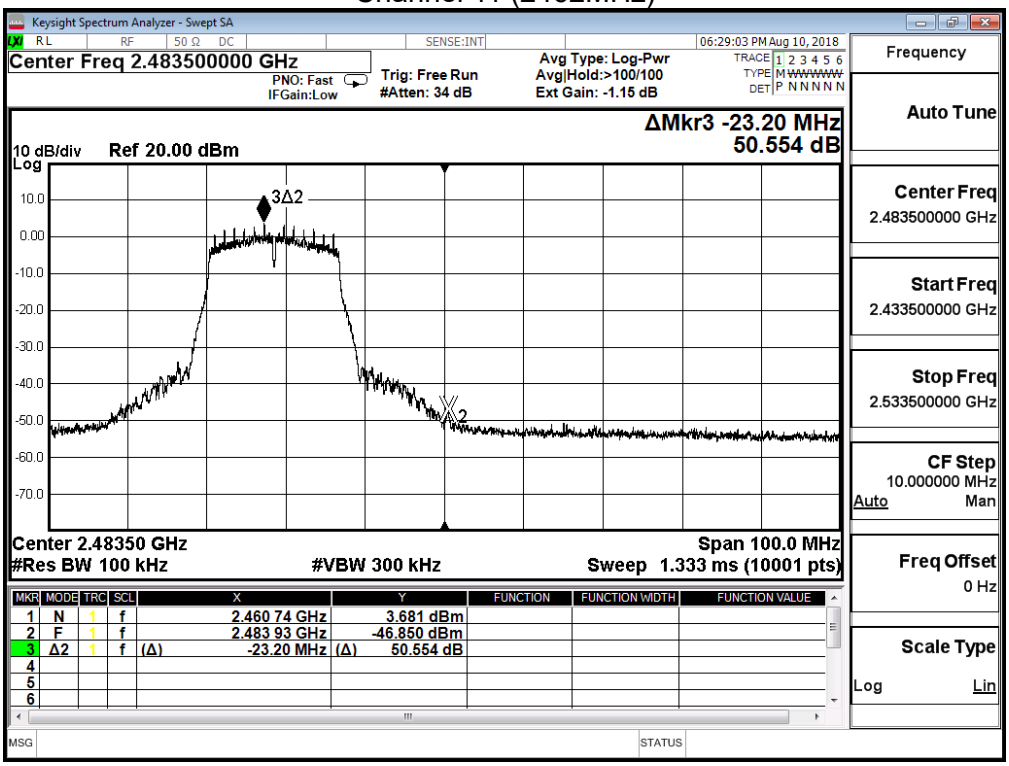
Channel 1 (2412MHz)



Channel 6 (2437MHz)



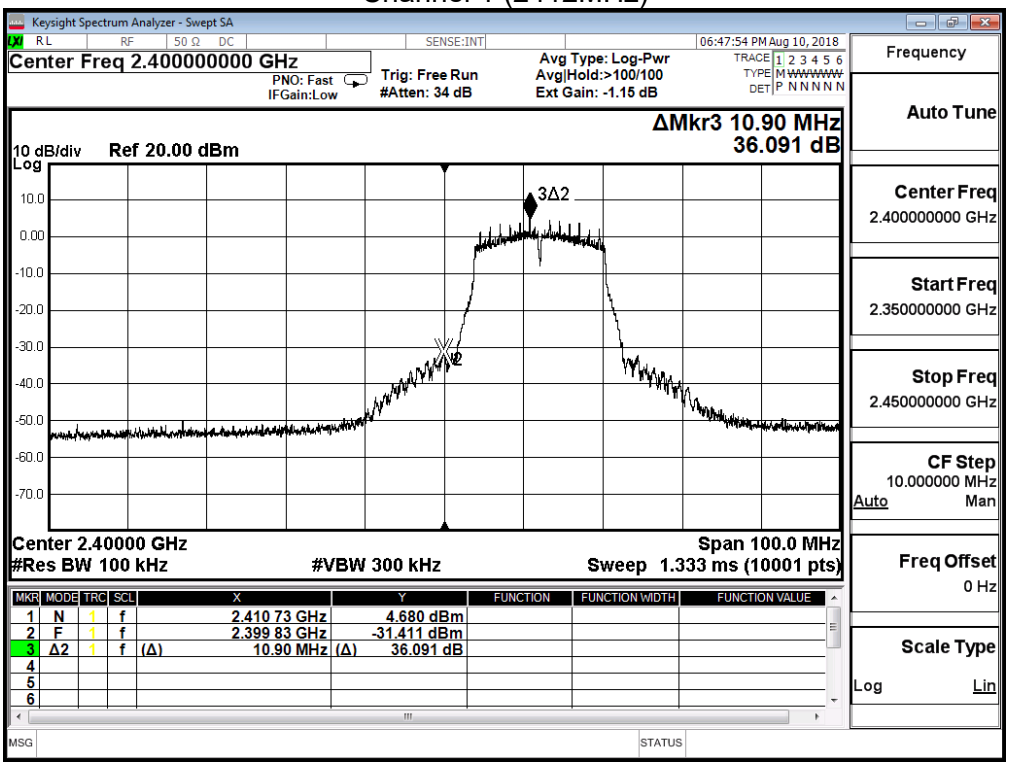
Channel 11 (2462MHz)



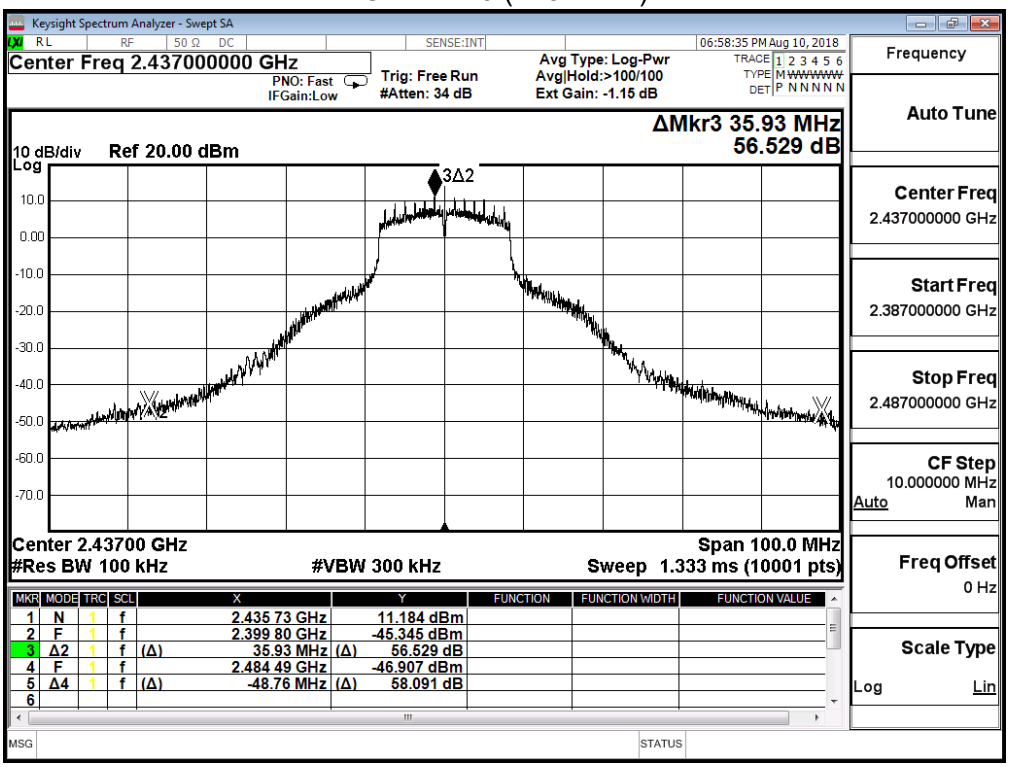
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11g (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.091	≧30	Pass
6	2437	56.529	≧30	Pass
11	2462	51.250	≧30	Pass

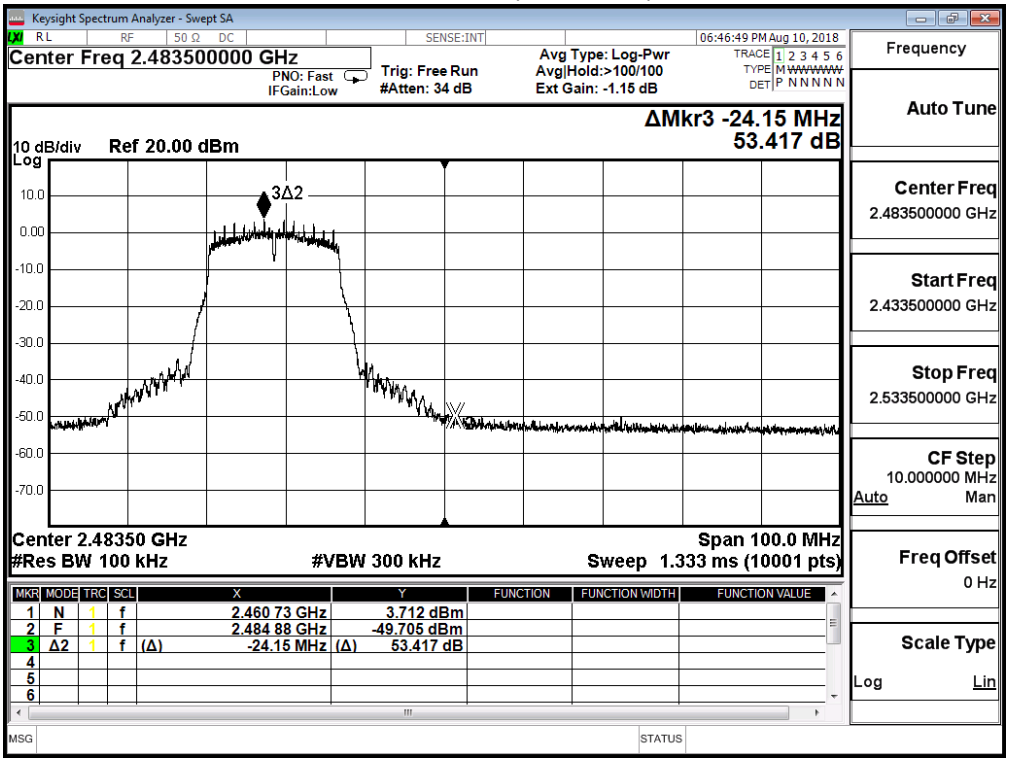
Channel 1 (2412MHz)



Channel 6 (2437MHz)



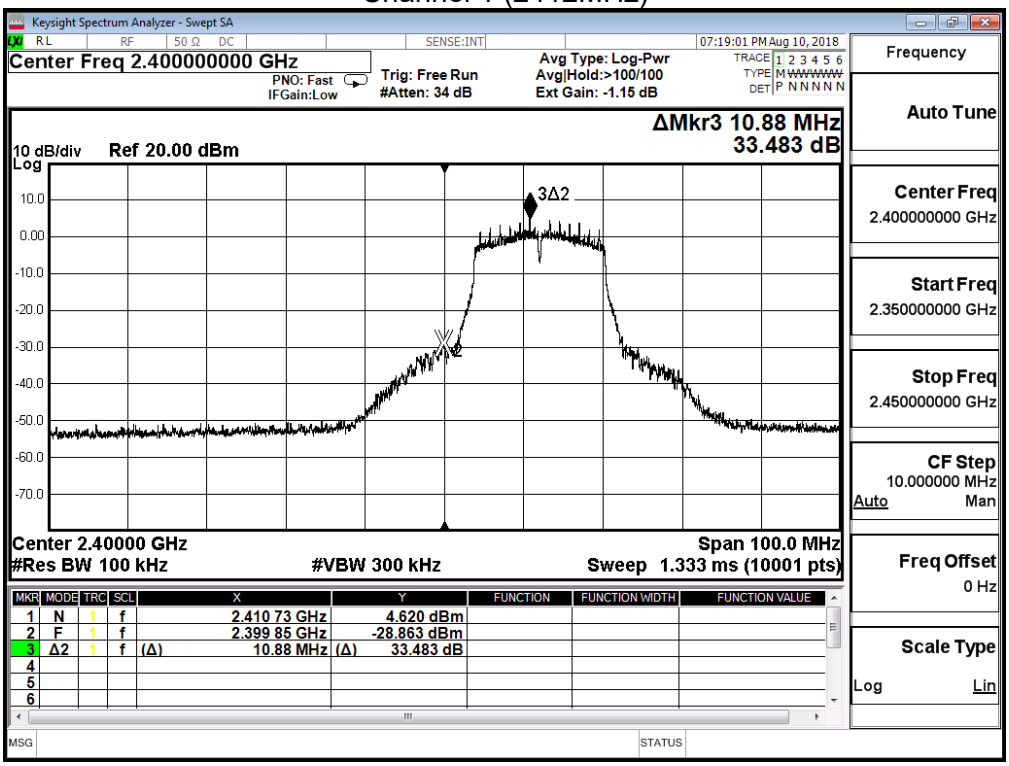
Channel 11 (2462MHz)



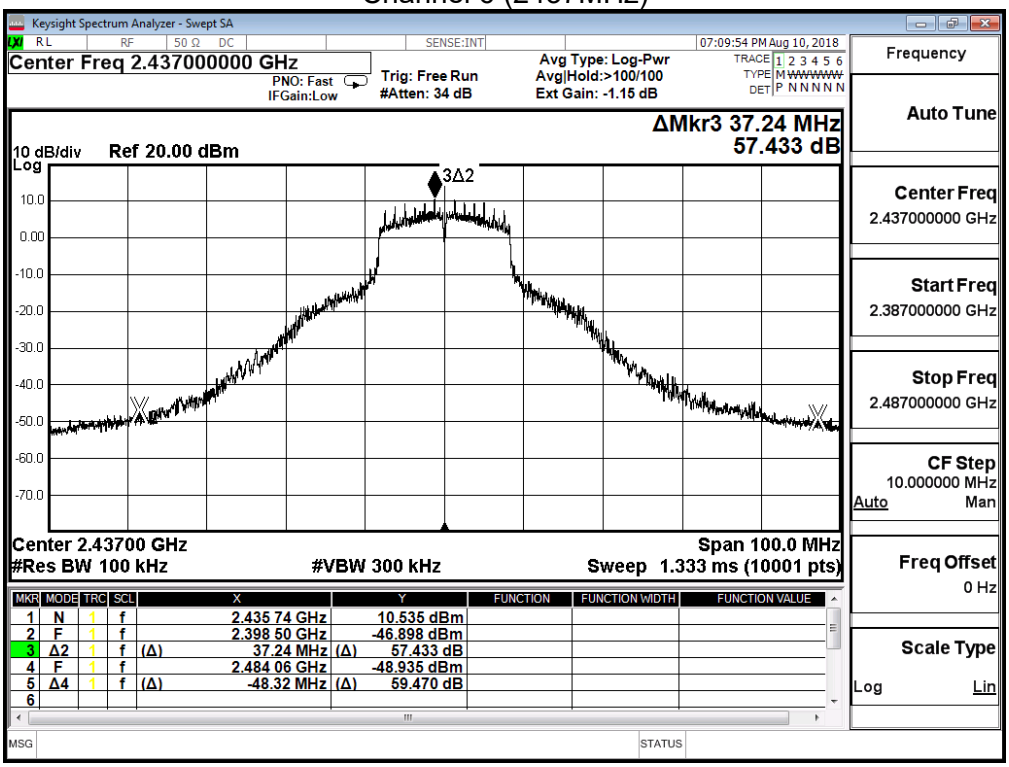
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11g (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.483	≧30	Pass
6	2437	57.433	≧30	Pass
11	2462	50.223	≧30	Pass

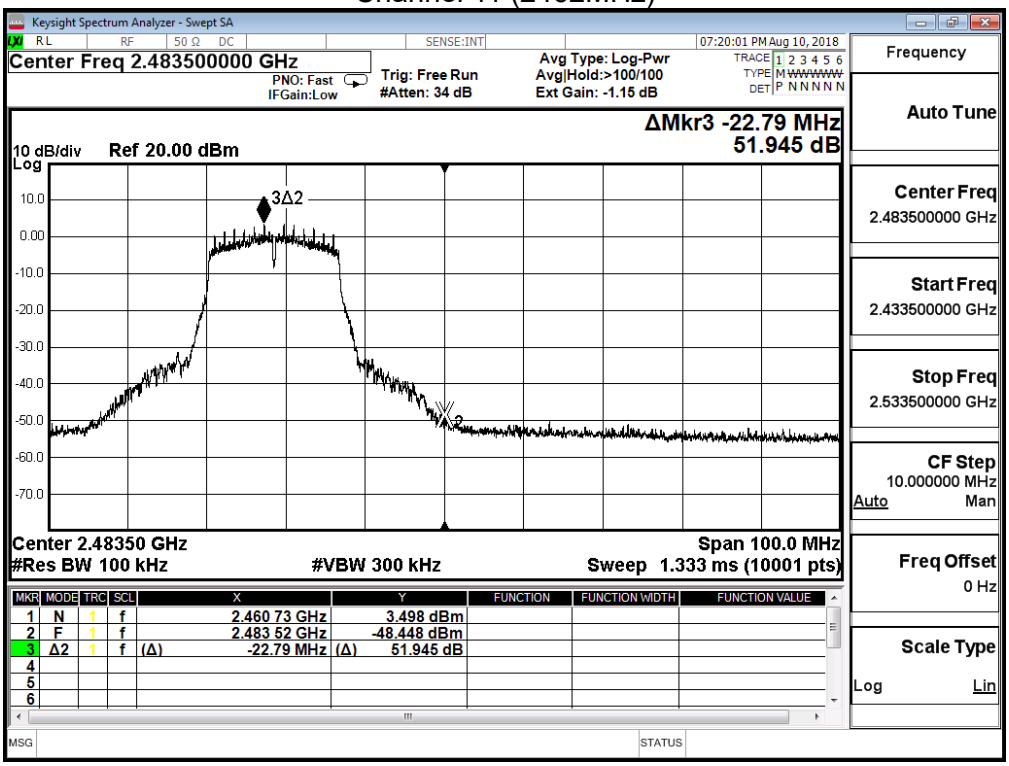
Channel 1 (2412MHz)



Channel 6 (2437MHz)



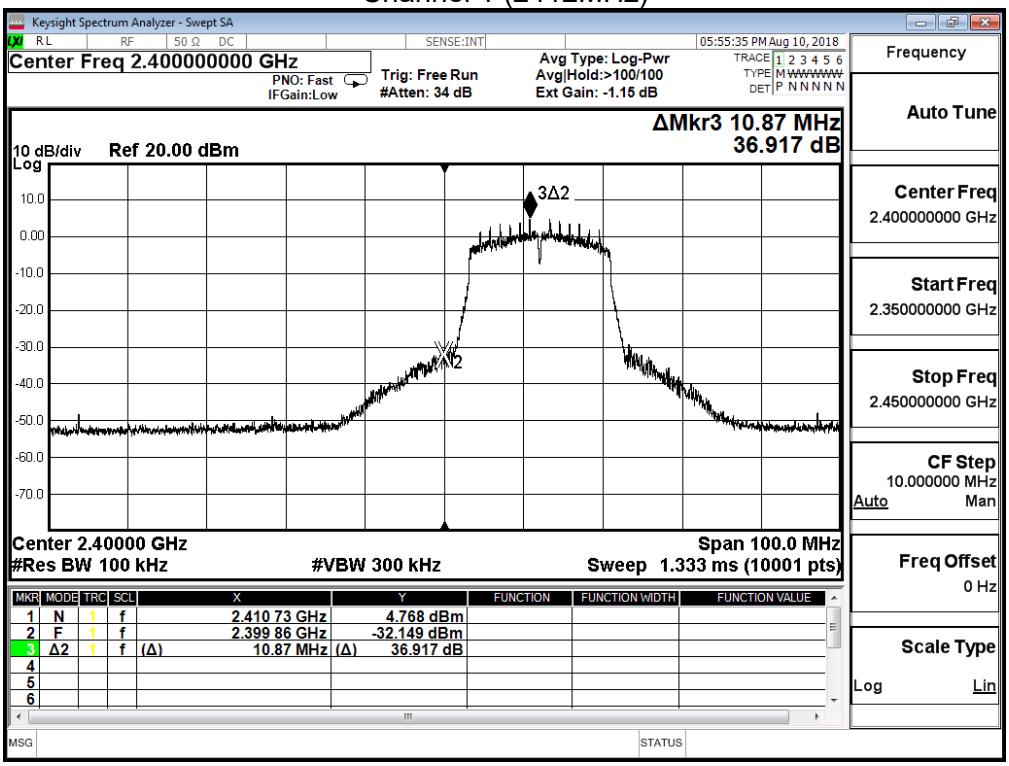
Channel 11 (2462MHz)



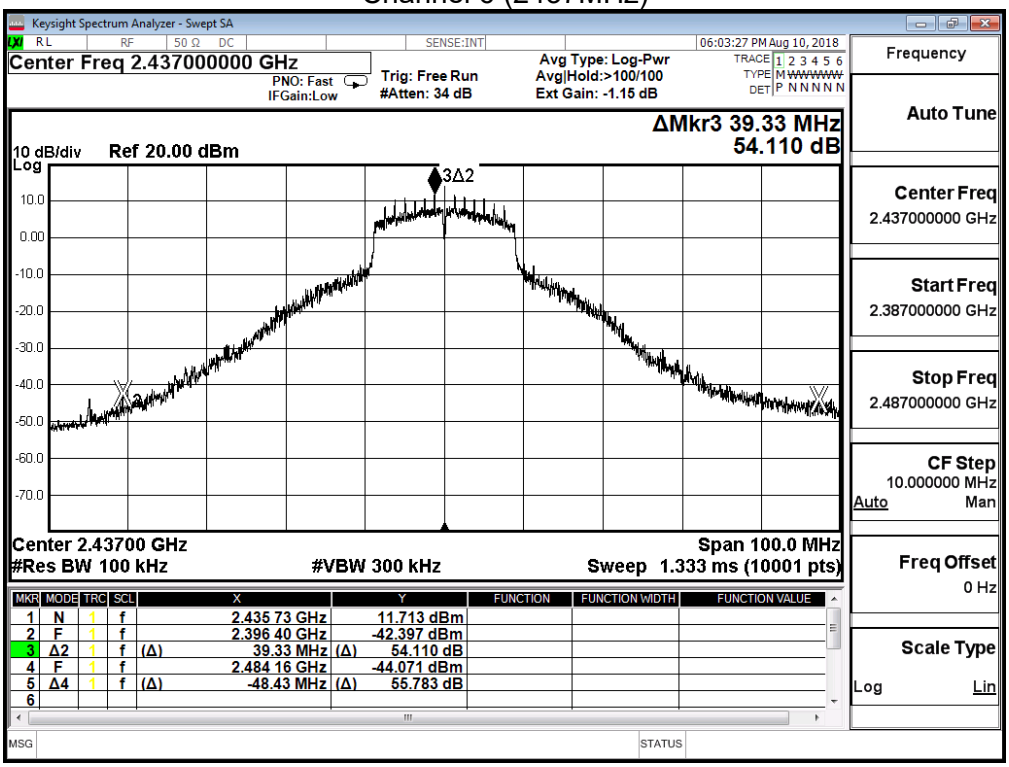
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.917	≧30	Pass
6	2437	54.110	≧30	Pass
11	2462	51.997	≧30	Pass

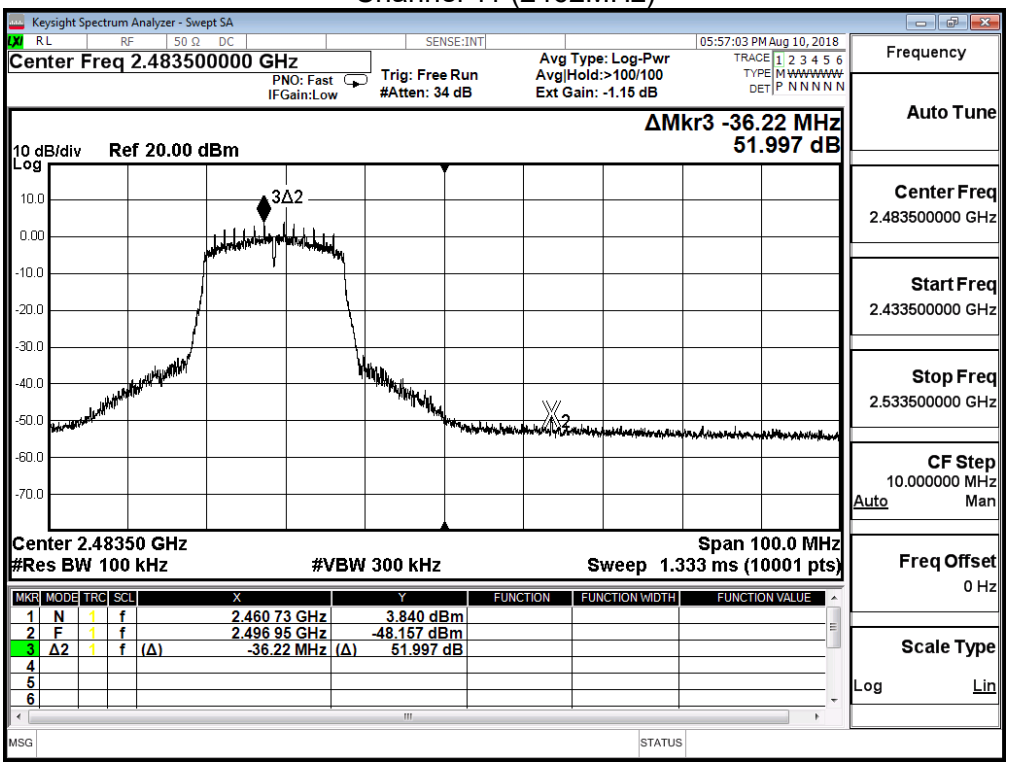
Channel 1 (2412MHz)



Channel 6 (2437MHz)



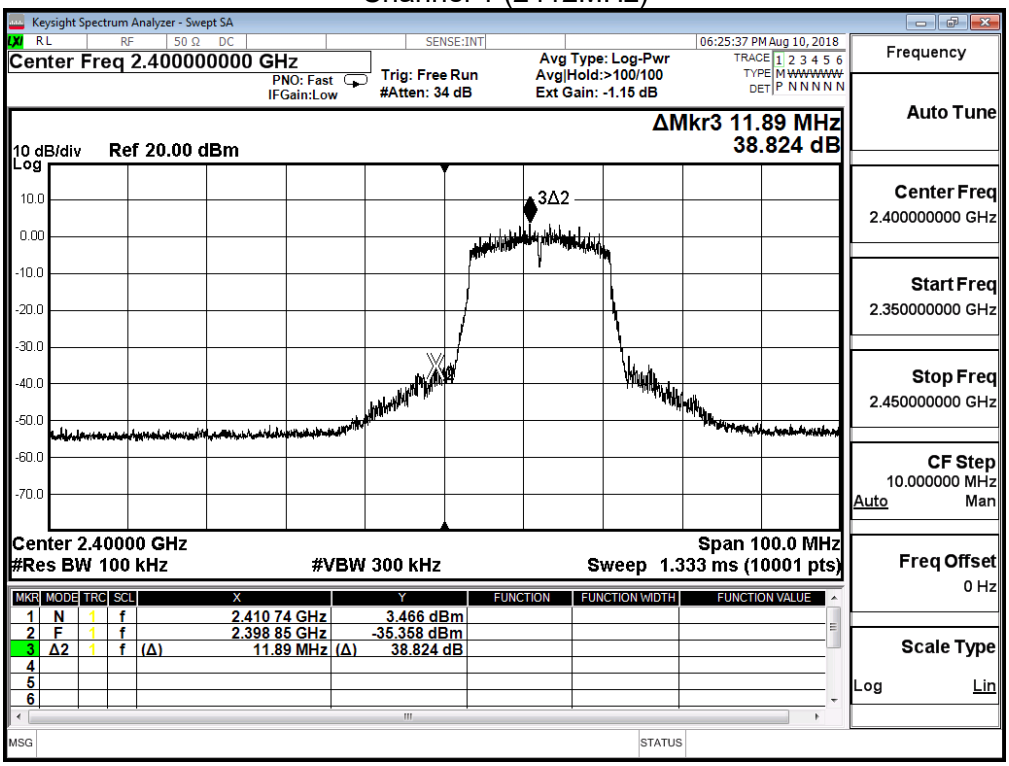
Channel 11 (2462MHz)



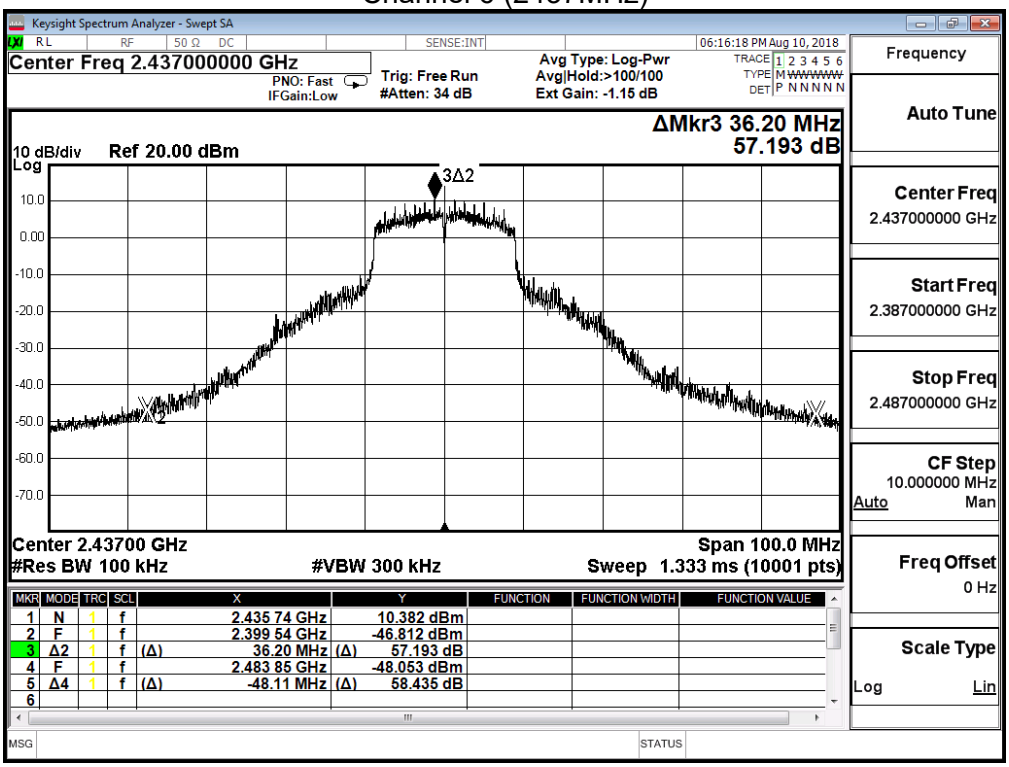
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.824	≧30	Pass
6	2437	57.193	≧30	Pass
11	2462	51.158	≧30	Pass

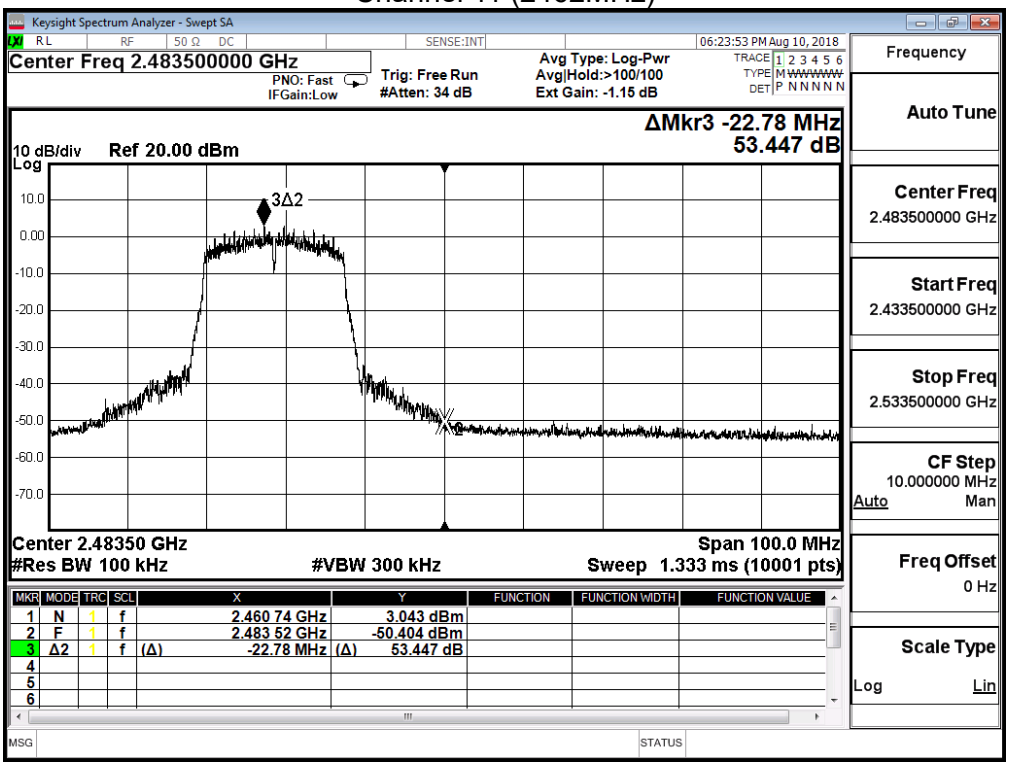
Channel 1 (2412MHz)



Channel 6 (2437MHz)



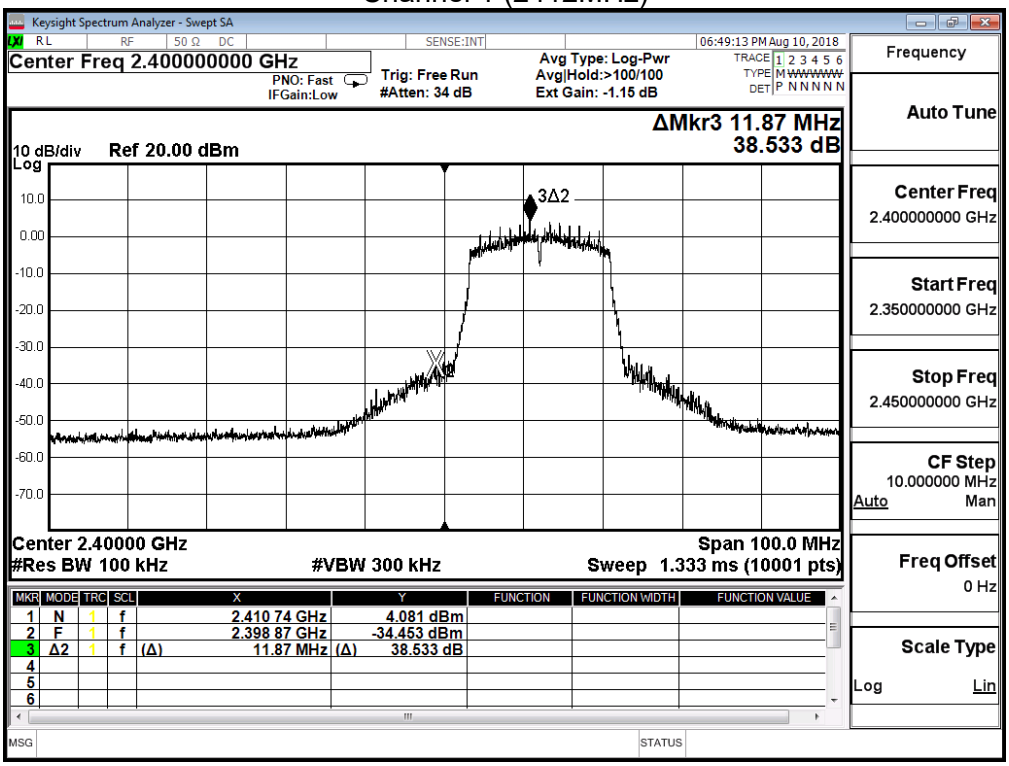
Channel 11 (2462MHz)



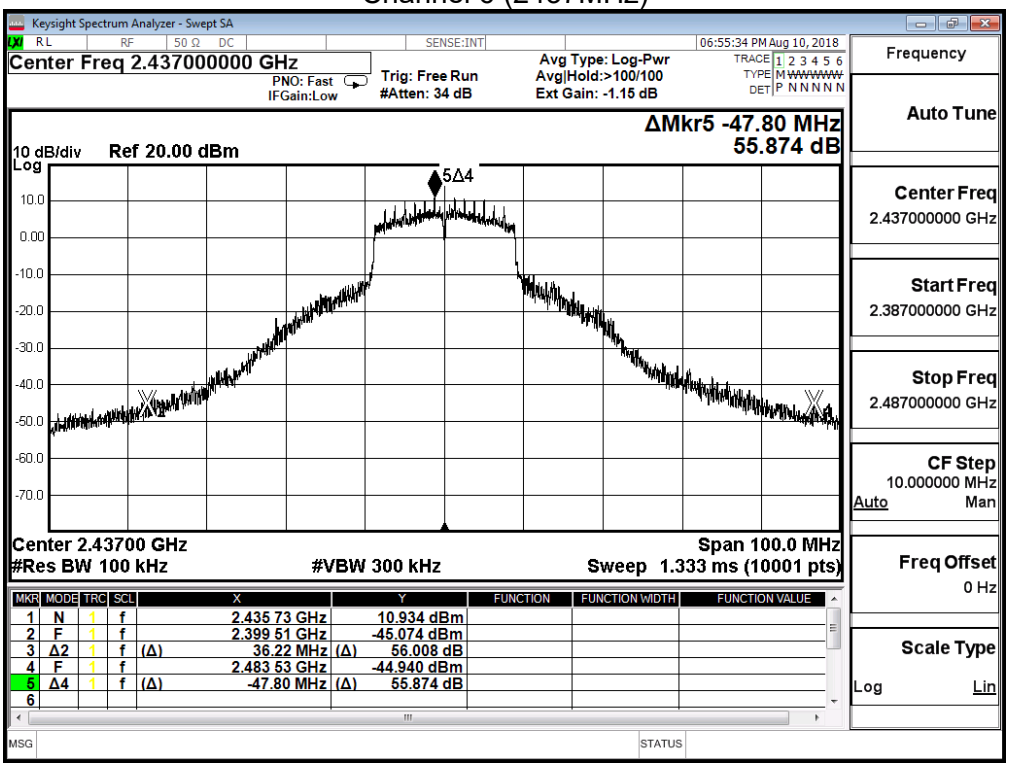
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	38.533	≧30	Pass
6	2437	55.874	≧30	Pass
11	2462	51.571	≧30	Pass

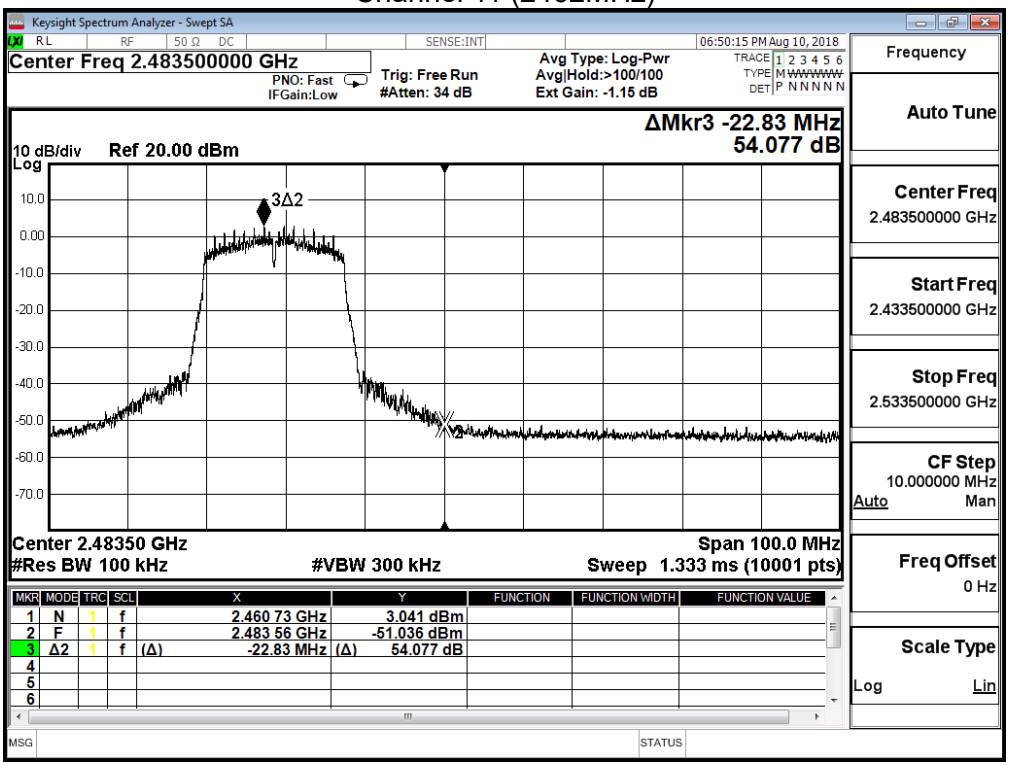
Channel 1 (2412MHz)



Channel 6 (2437MHz)



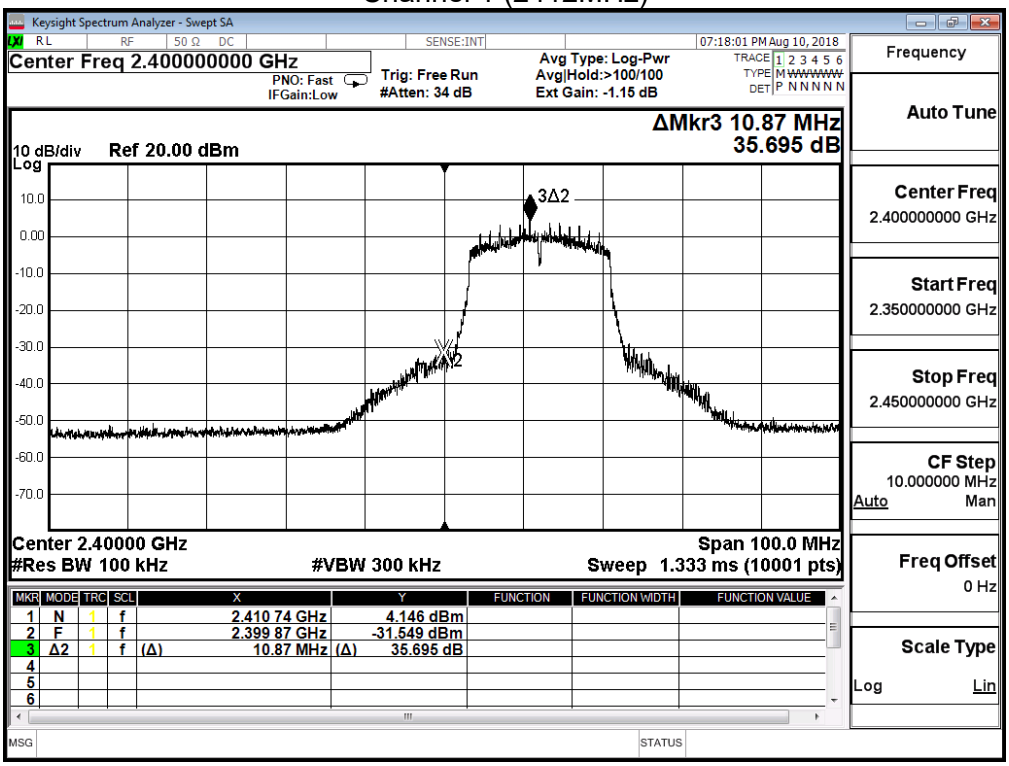
Channel 11 (2462MHz)



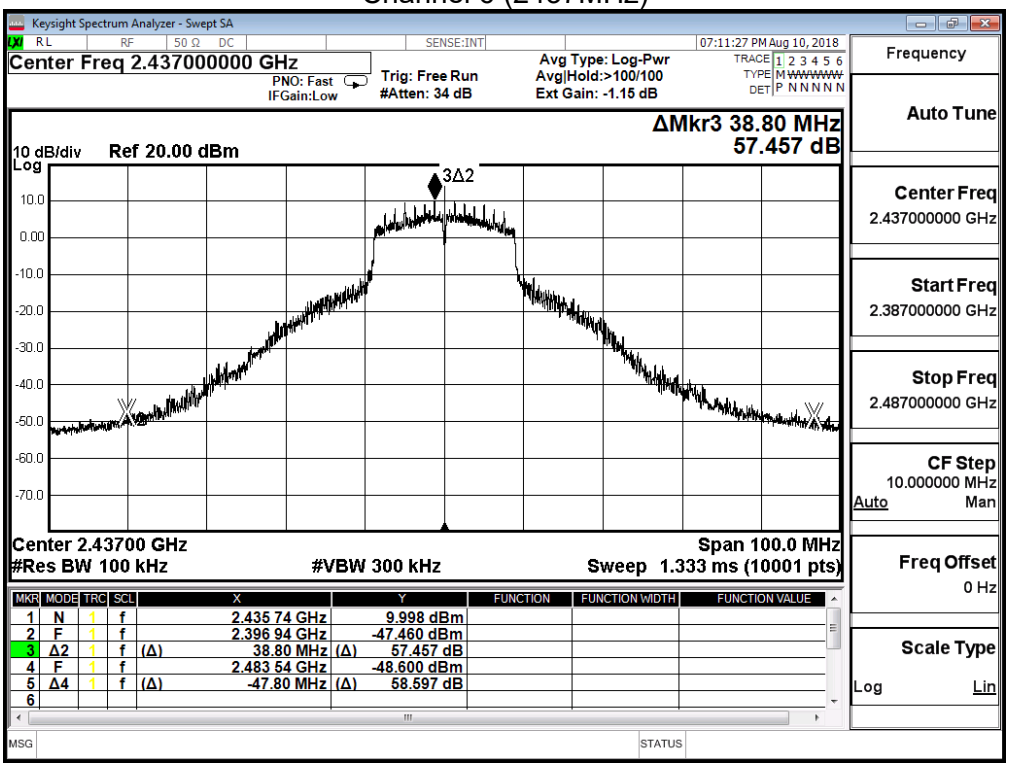
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 20M (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	35.695	≧30	Pass
6	2437	57.457	≧30	Pass
11	2462	51.343	≧30	Pass

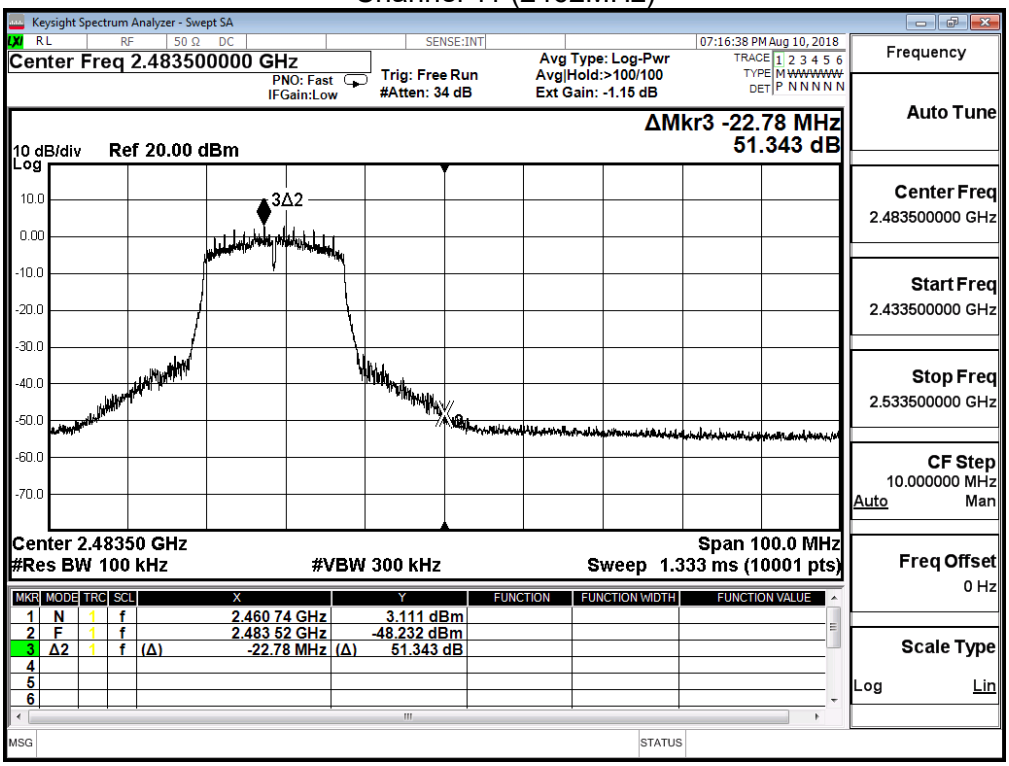
Channel 1 (2412MHz)



Channel 6 (2437MHz)



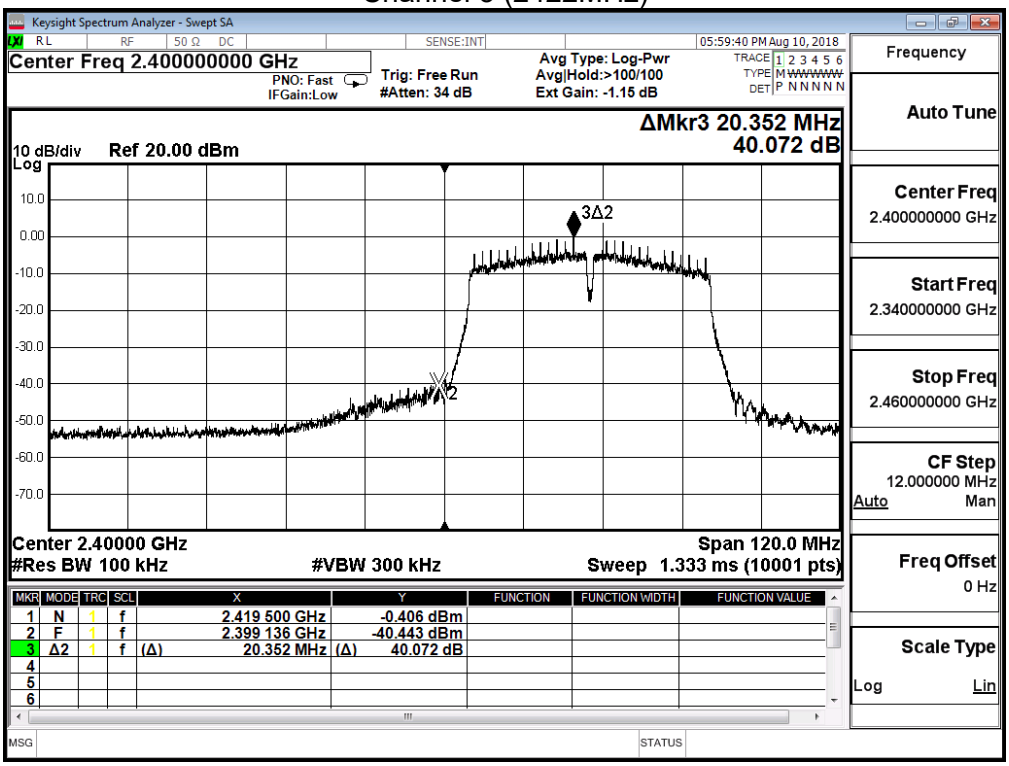
Channel 11 (2462MHz)



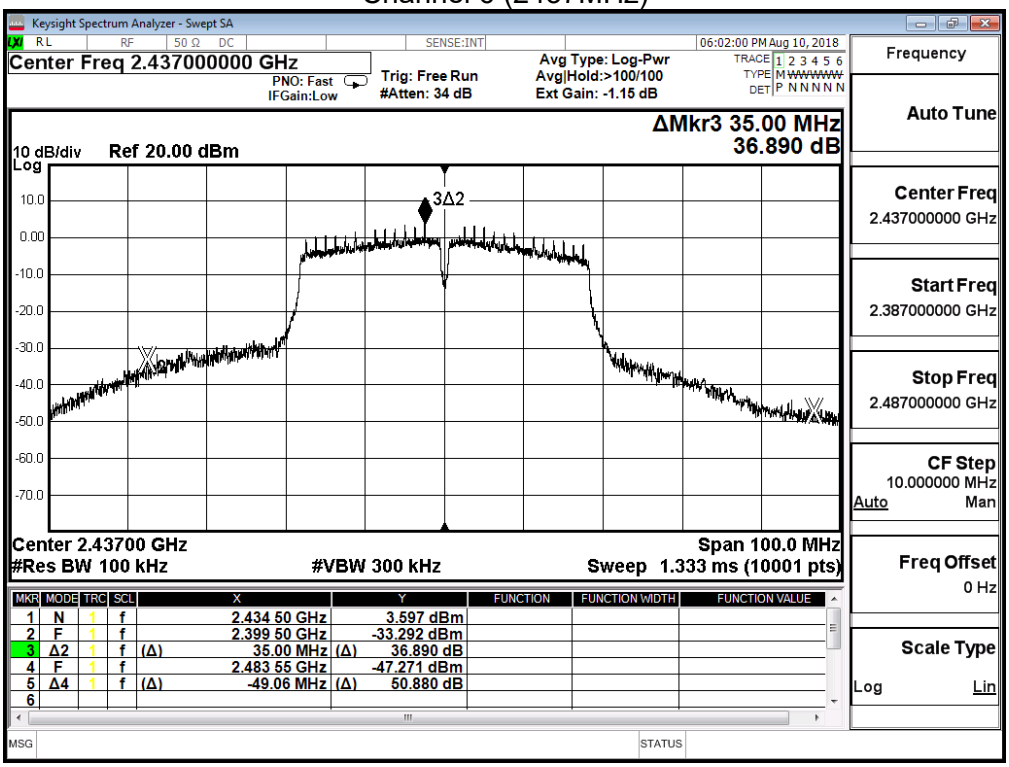
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.072	≧30	Pass
6	2437	36.890	≧30	Pass
9	2452	44.660	≧30	Pass

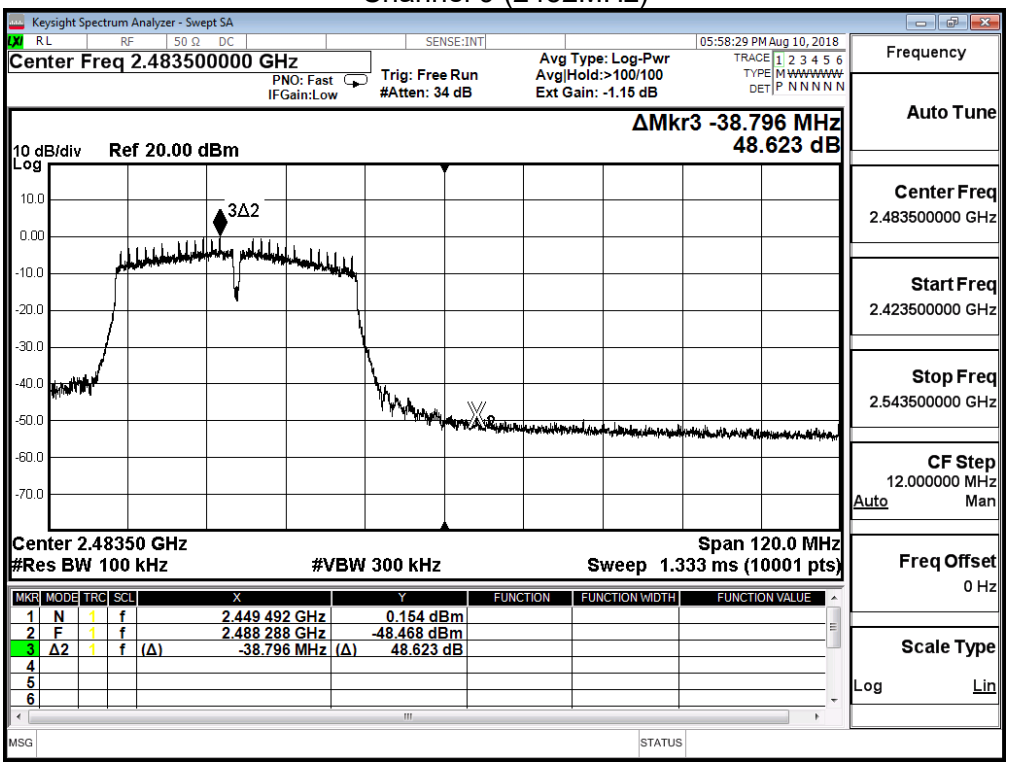
Channel 3 (2422MHz)



Channel 6 (2437MHz)



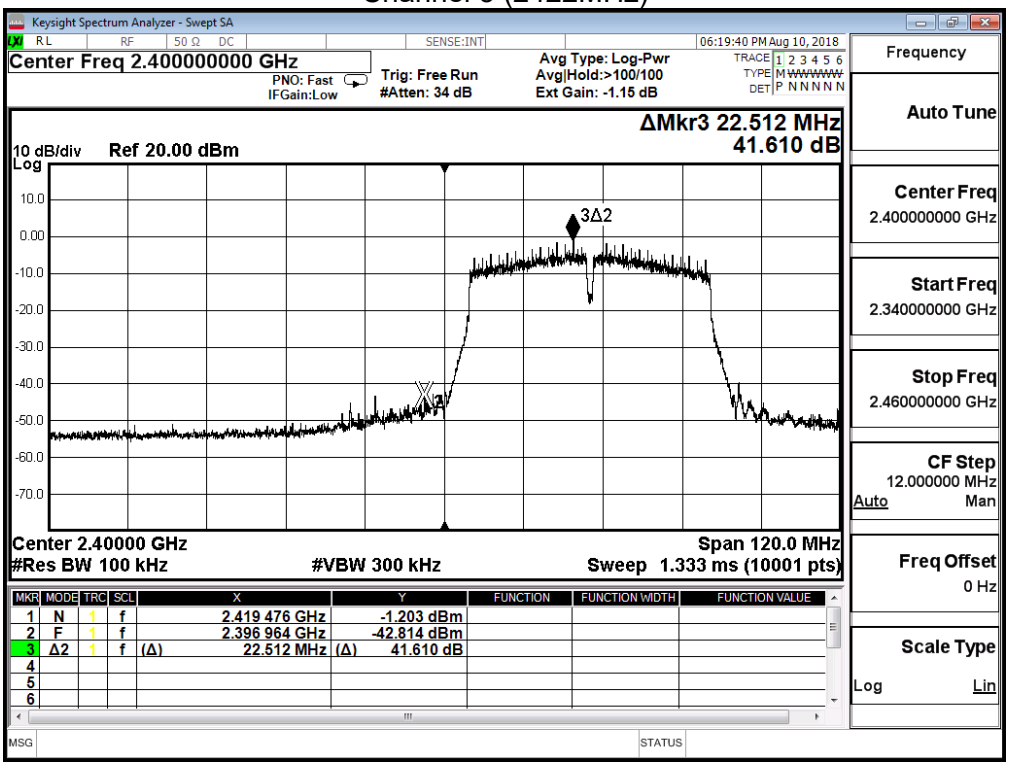
Channel 9 (2452MHz)



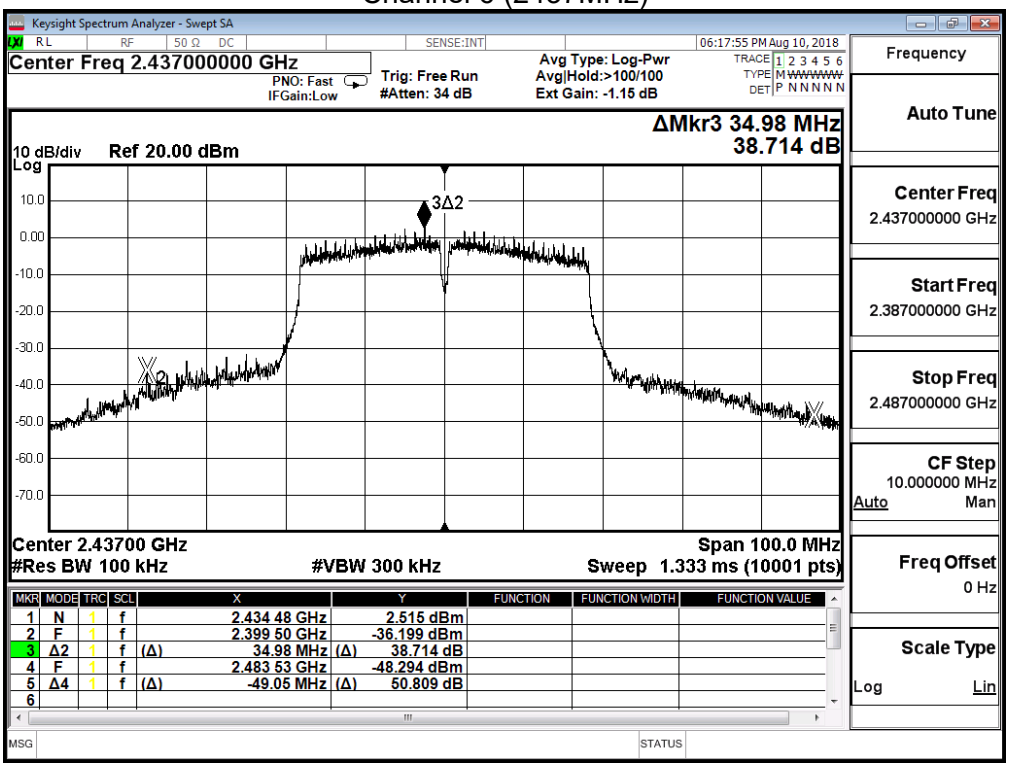
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	41.610	≧30	Pass
6	2437	38.714	≧30	Pass
9	2452	46.130	≧30	Pass

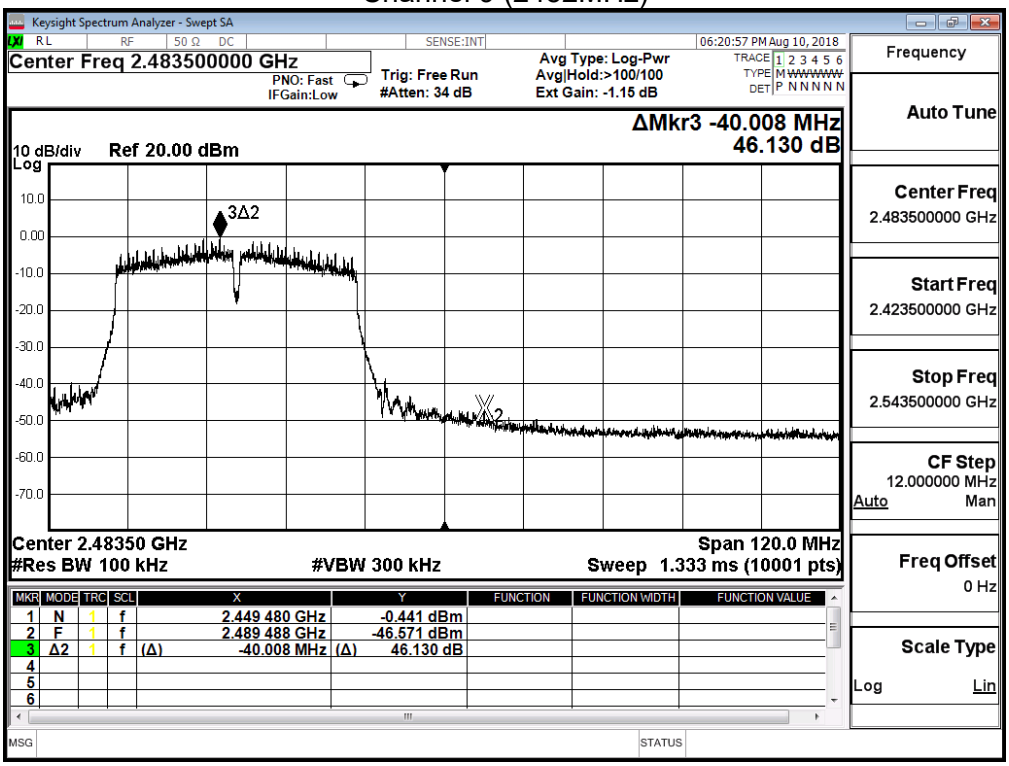
Channel 3 (2422MHz)



Channel 6 (2437MHz)



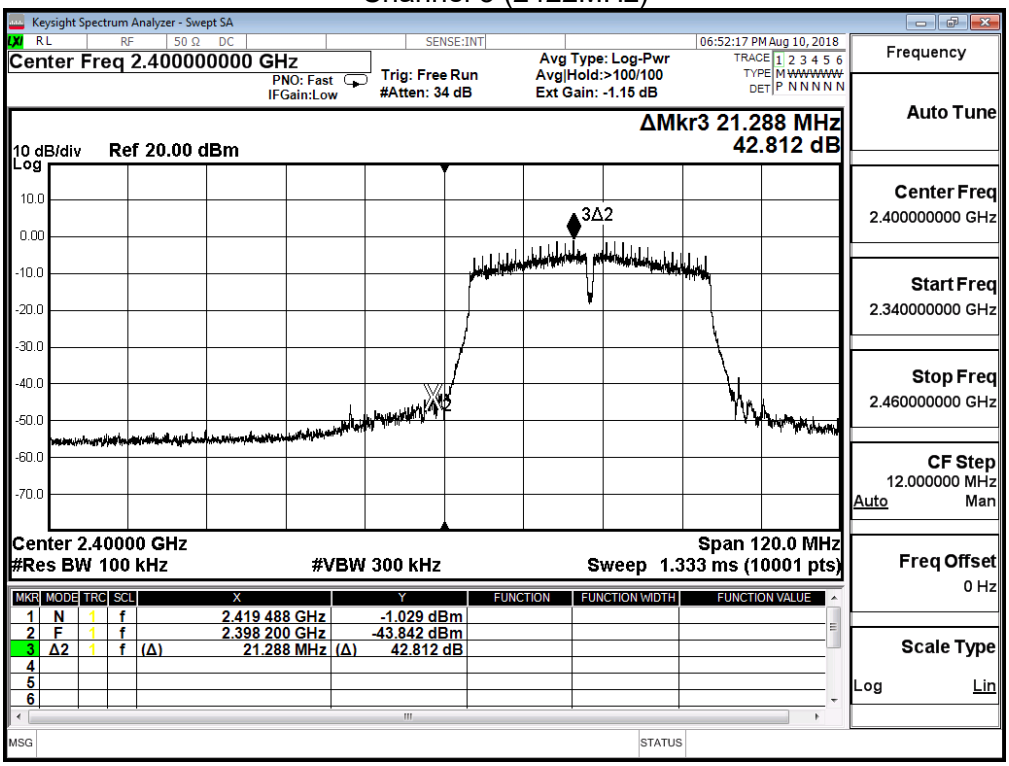
Channel 9 (2452MHz)



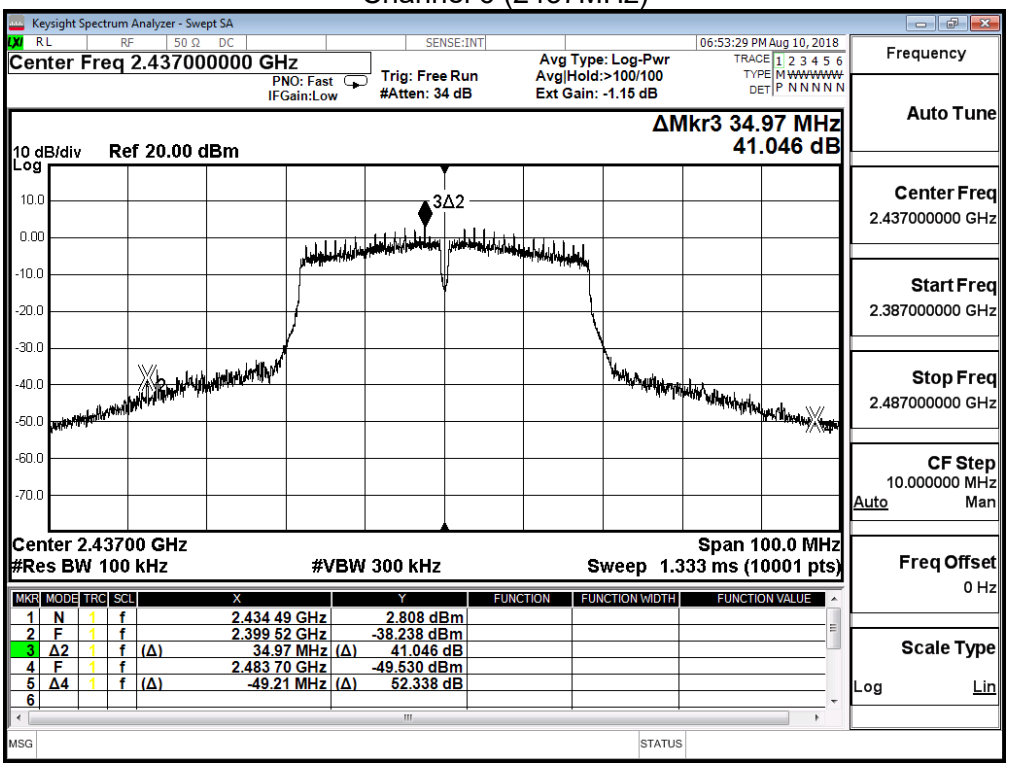
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	42.812	≧30	Pass
6	2437	41.046	≧30	Pass
9	2452	47.451	≧30	Pass

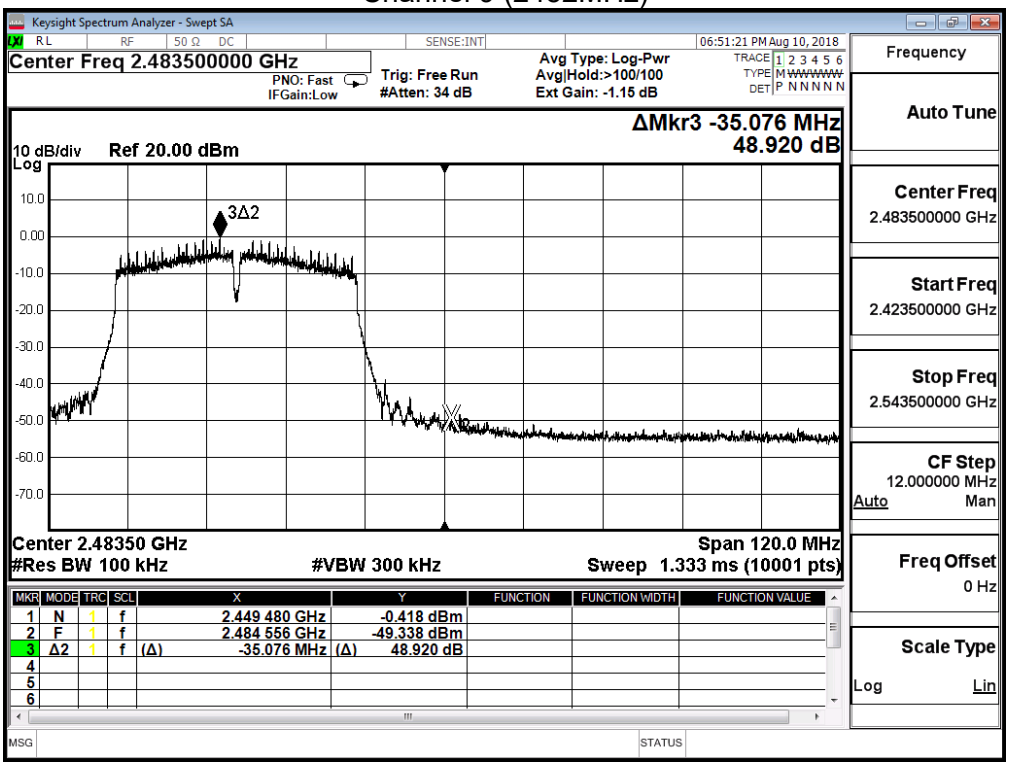
Channel 3 (2422MHz)



Channel 6 (2437MHz)



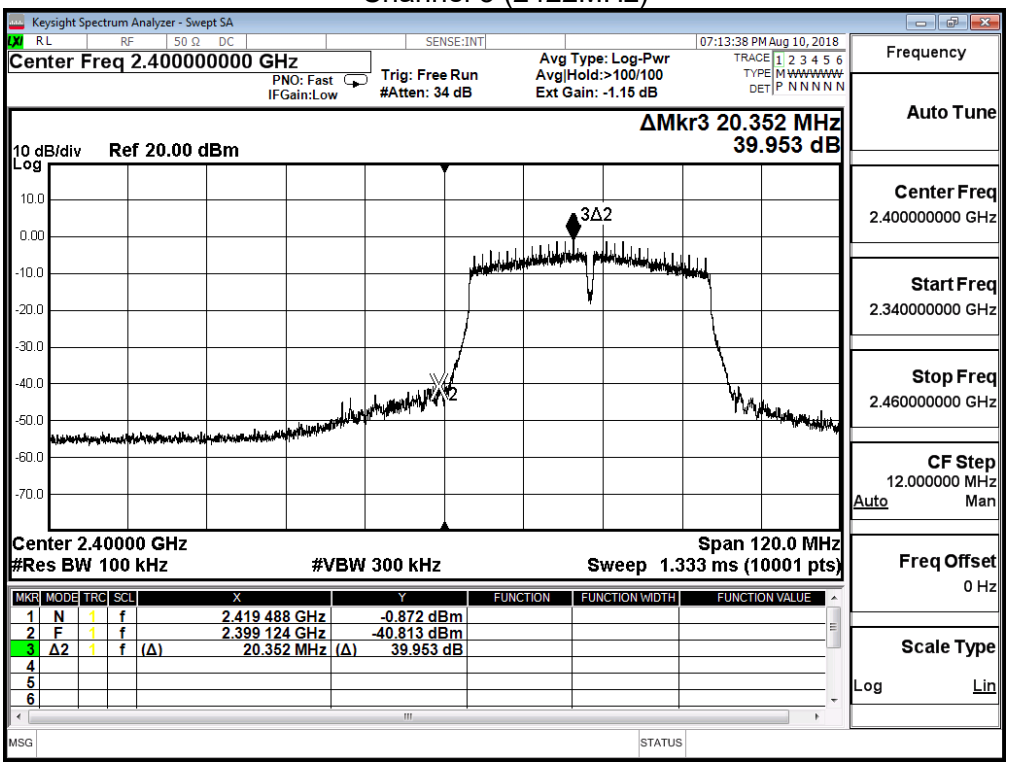
Channel 9 (2452MHz)



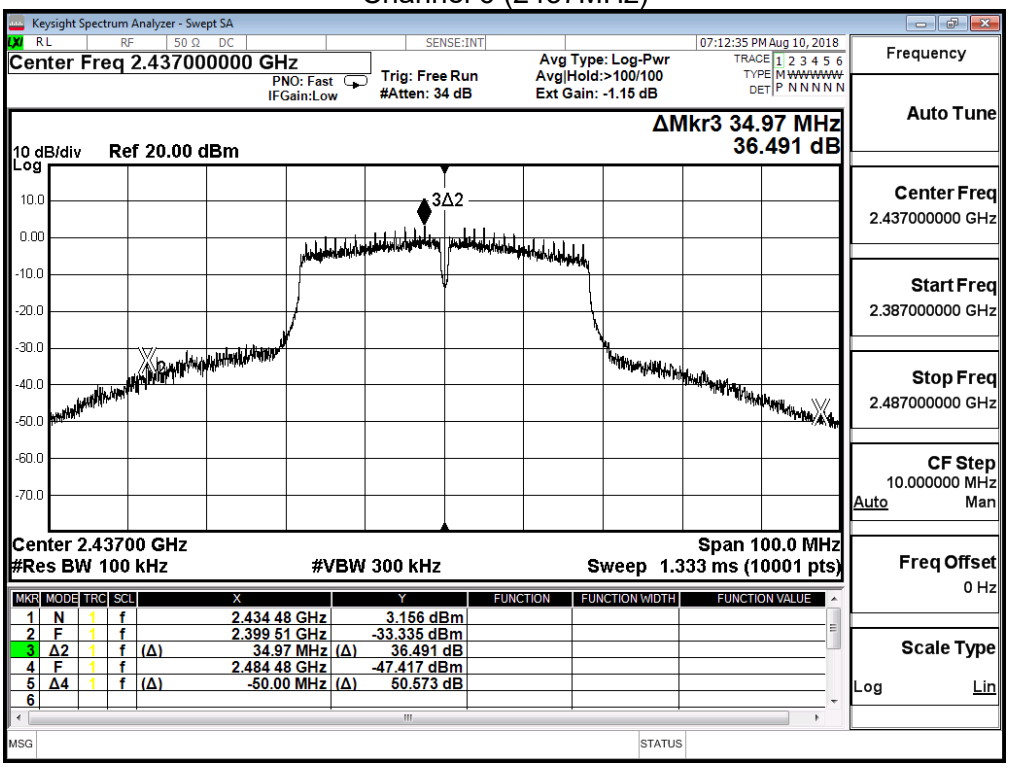
Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

IEEE 802.11n 40M (ANT 3)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	39.953	≧30	Pass
6	2437	36.491	≧30	Pass
9	2452	46.324	≧30	Pass

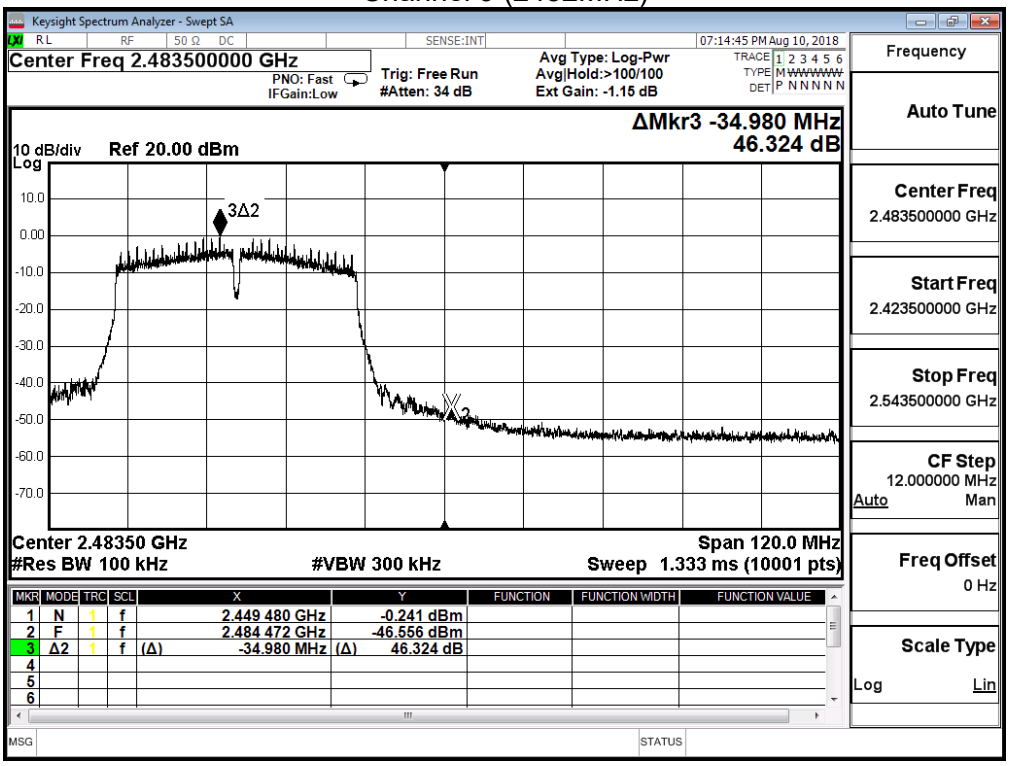
Channel 3 (2422MHz)



Channel 6 (2437MHz)

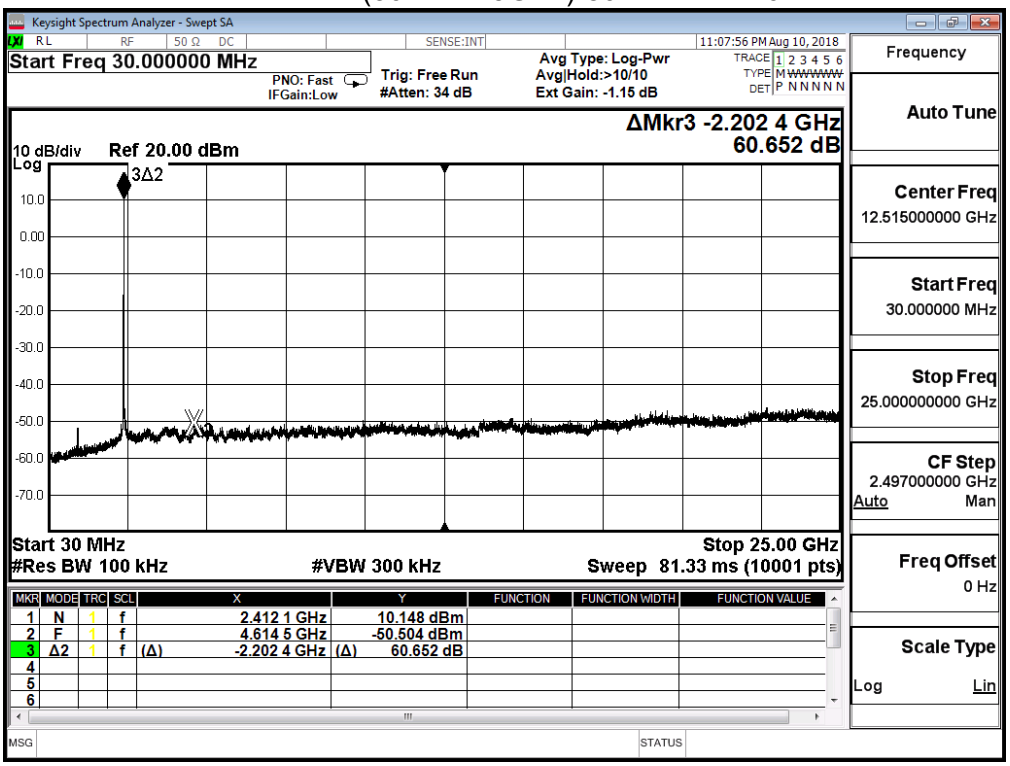


Channel 9 (2452MHz)

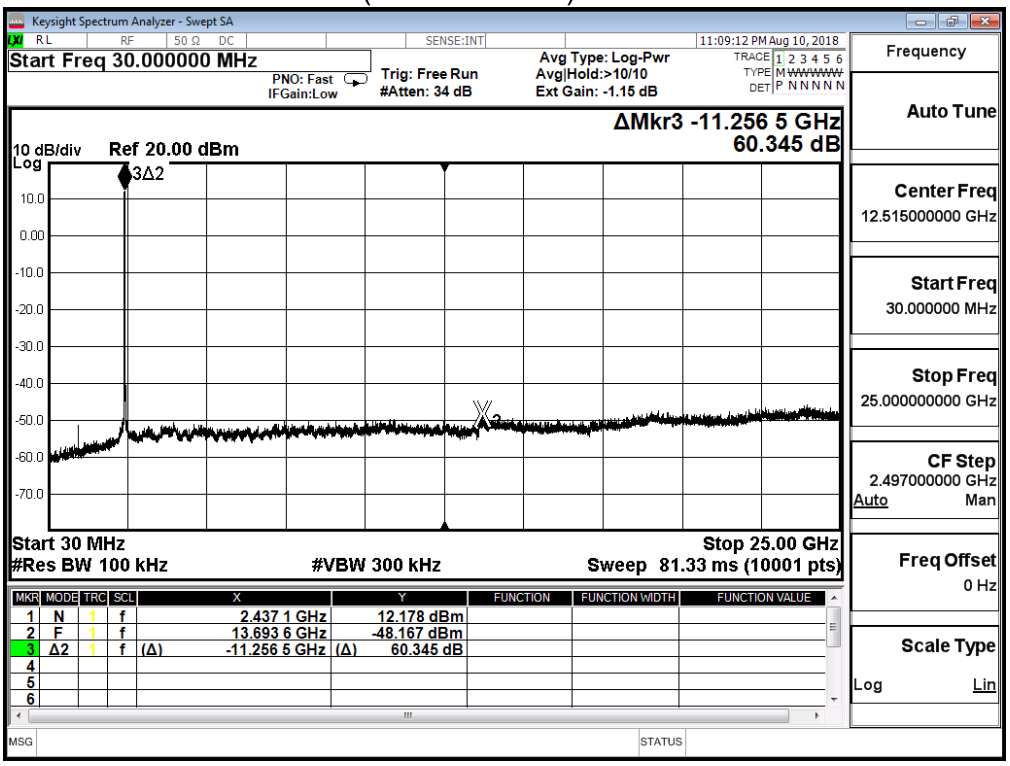


Product	Wireless-AC2400 Dual Band Gigabit Router Wireless-AC2600 Dual Band Gigabit Router		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit Mode_CDD_WA-30P12FU		
Date of Test	2018/08/10	Test Site	SR10-H

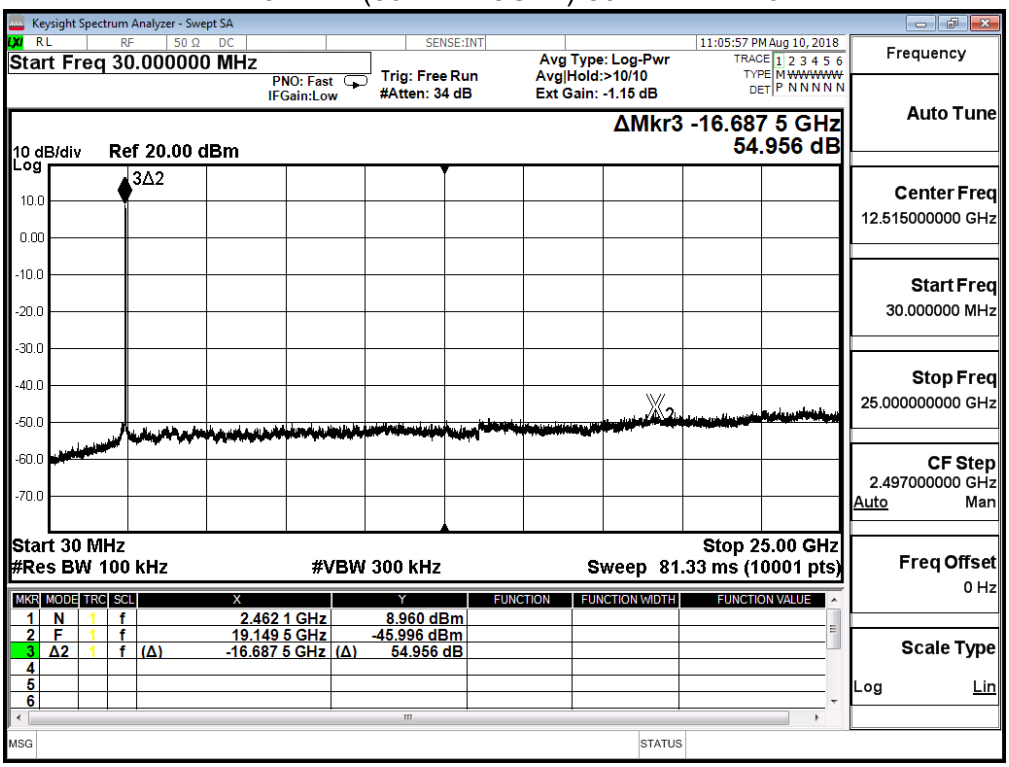
2412MHz (30MHz-25GHz)-802.11b-ANT 0



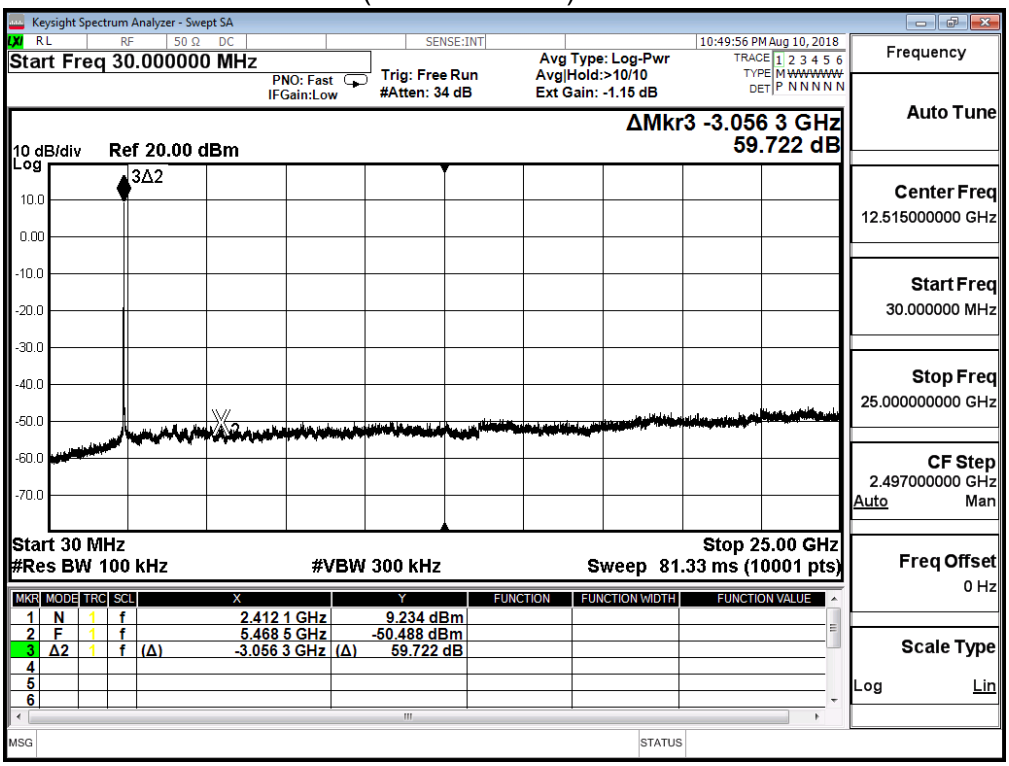
2437MHz (30MHz-25GHz)-802.11b-ANT 0



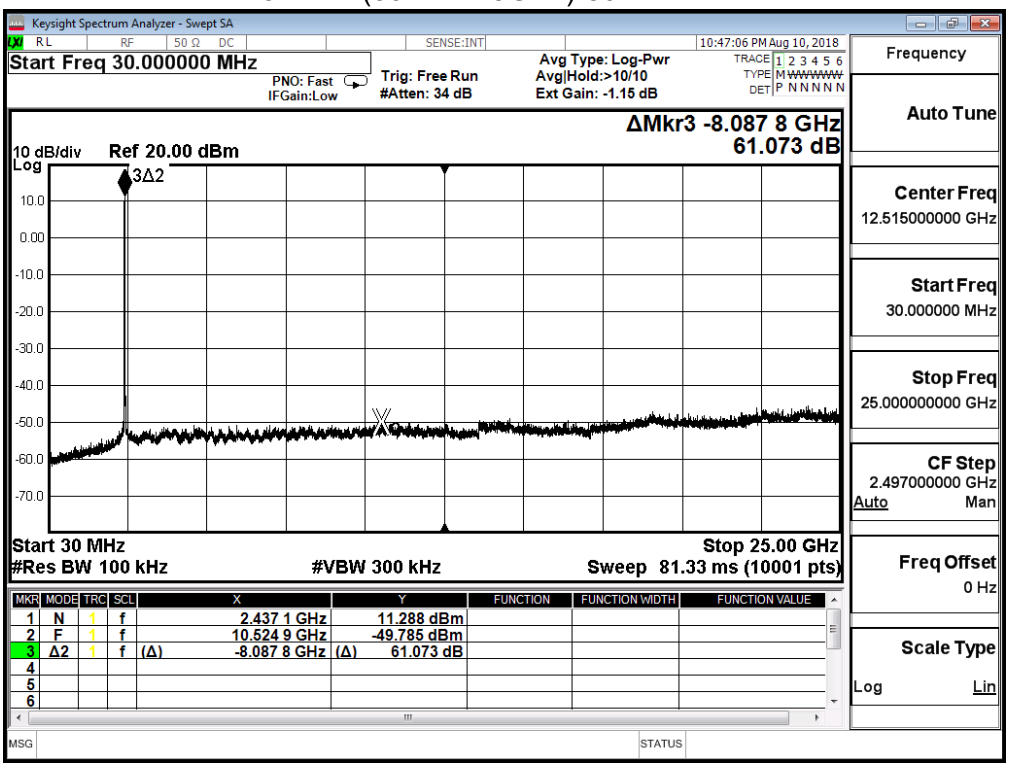
2462MHz (30MHz-25GHz)-802.11b-ANT 0



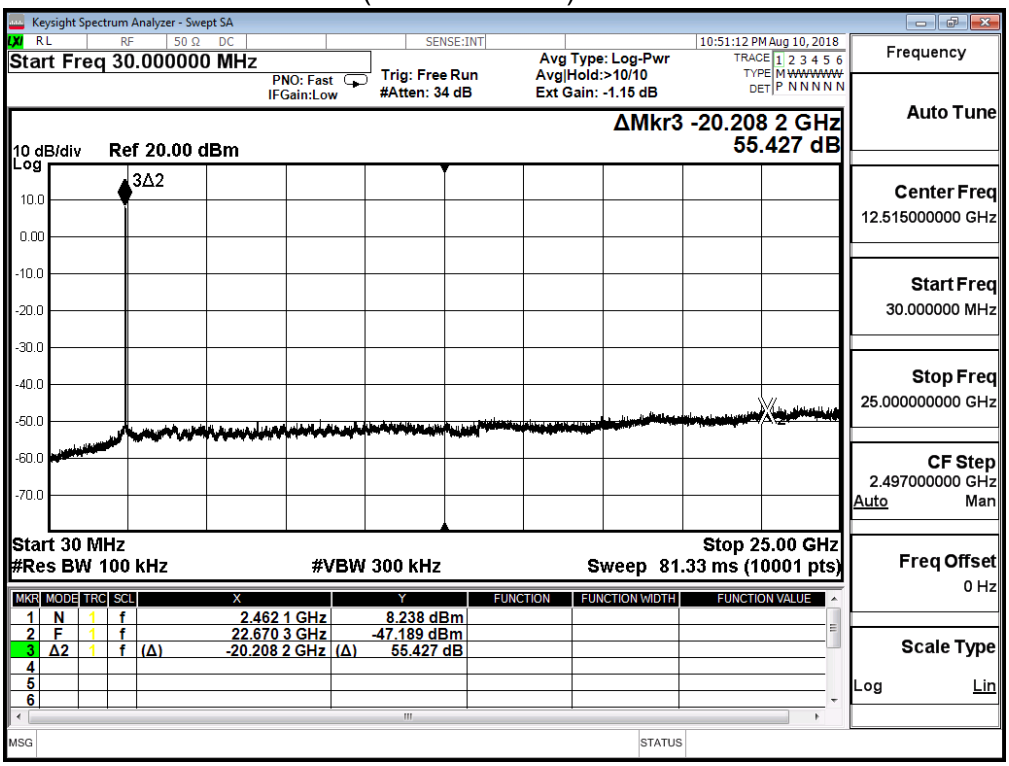
2412MHz (30MHz-25GHz)-802.11b-ANT 1



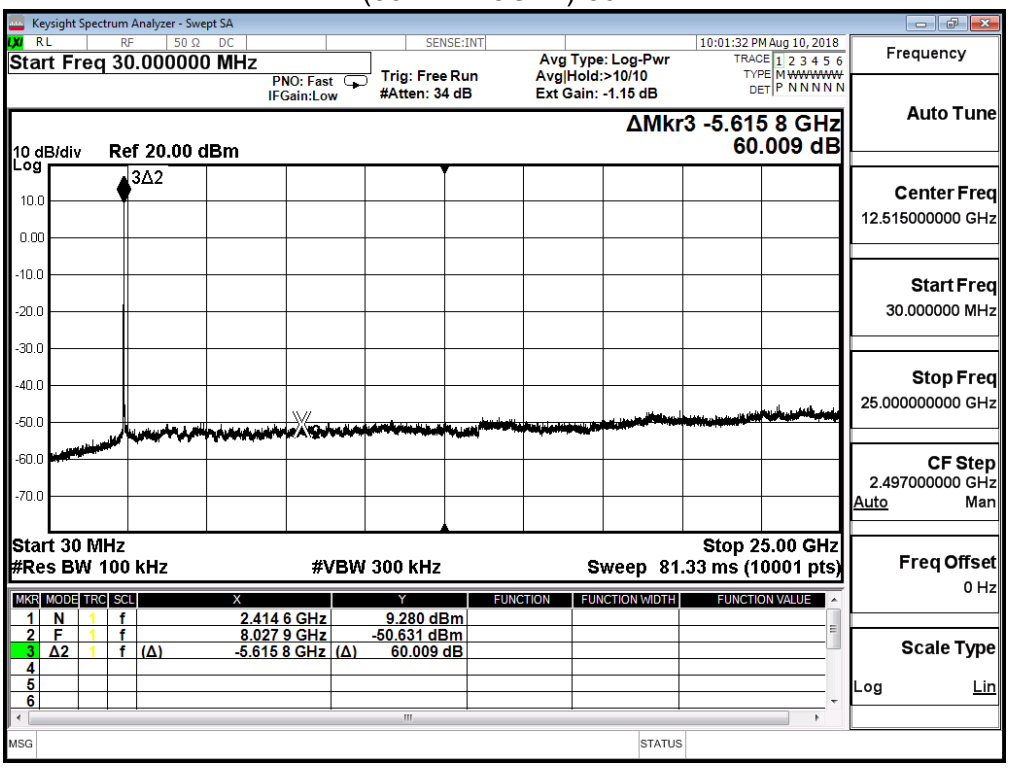
2437MHz (30MHz-25GHz)-802.11b-ANT 1



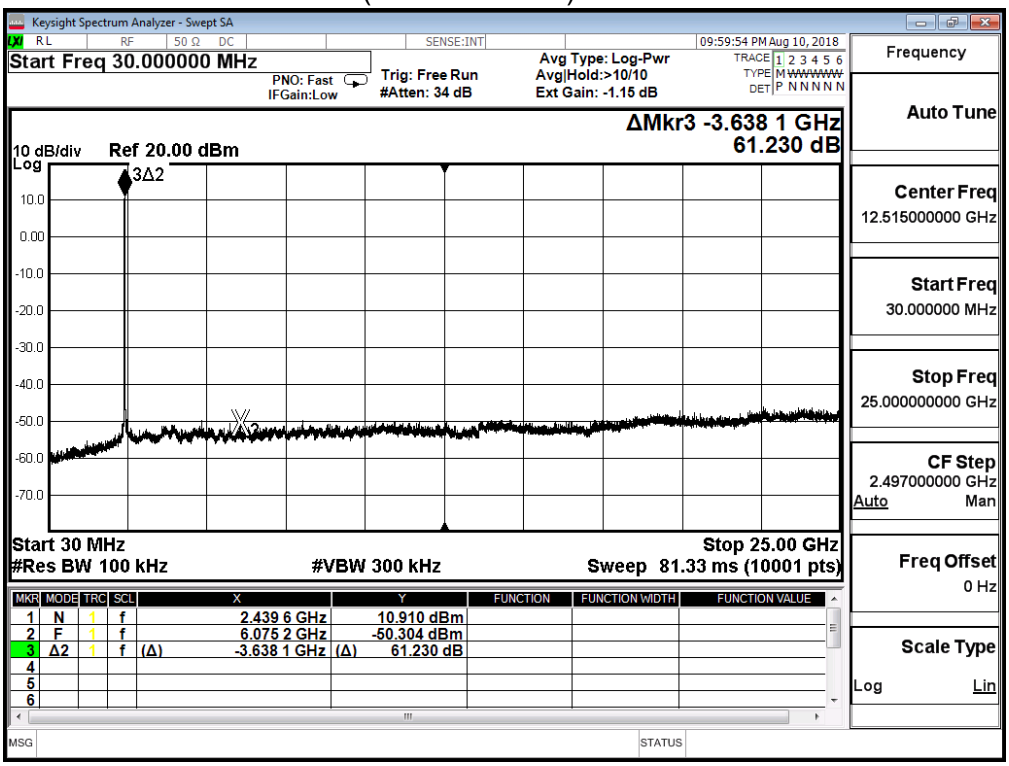
2462MHz (30MHz-25GHz)-802.11b-ANT 1



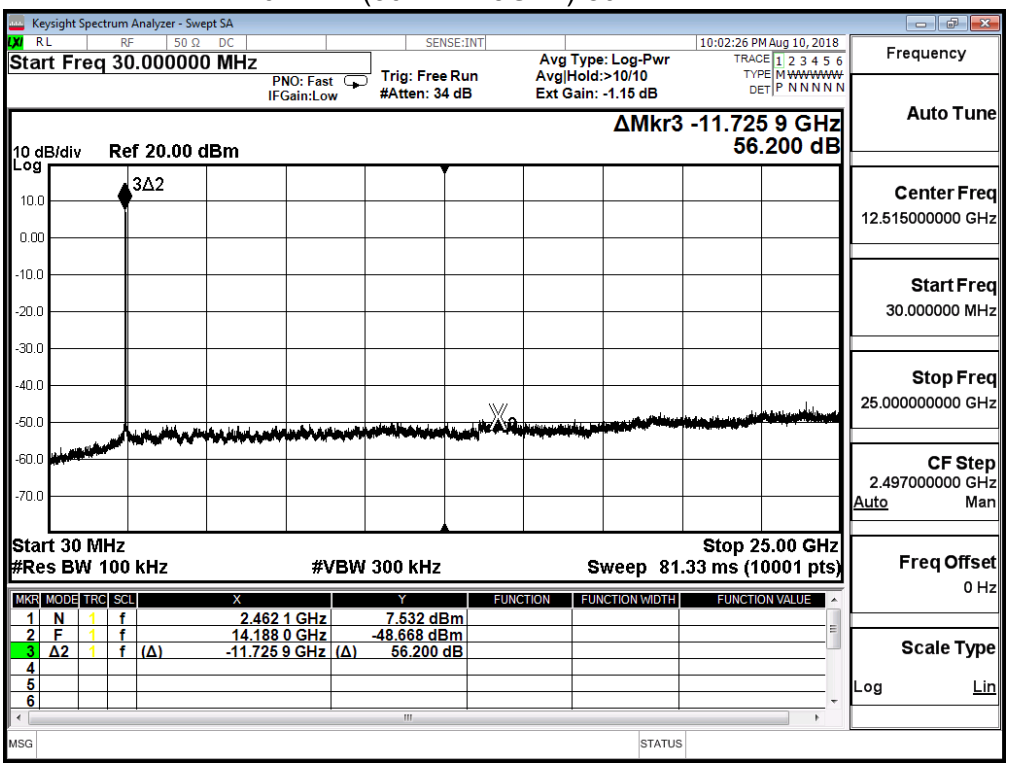
2412MHz (30MHz-25GHz)-802.11b-ANT 2



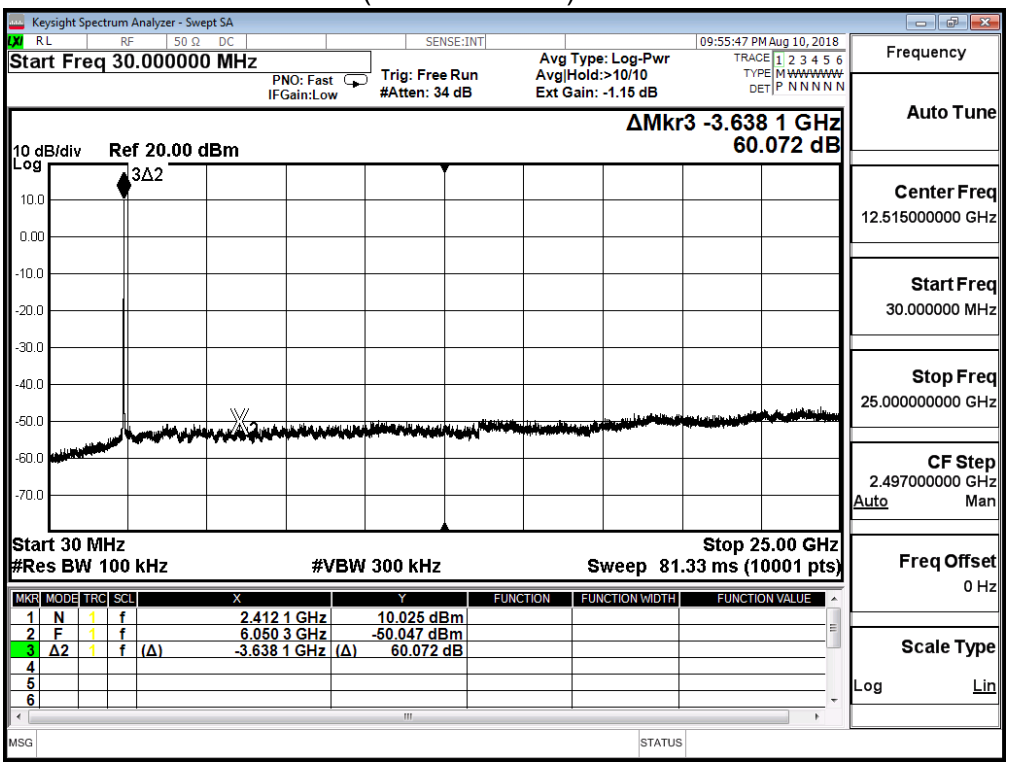
2437MHz (30MHz-25GHz)-802.11b-ANT 2



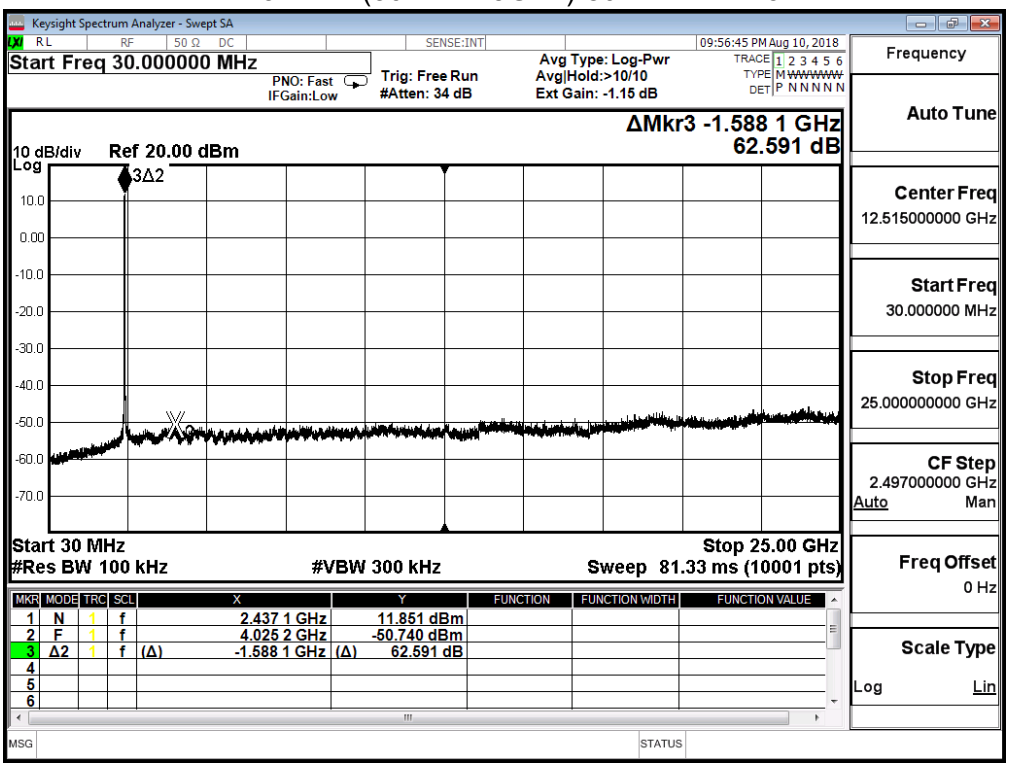
2462MHz (30MHz-25GHz)-802.11b-ANT 2



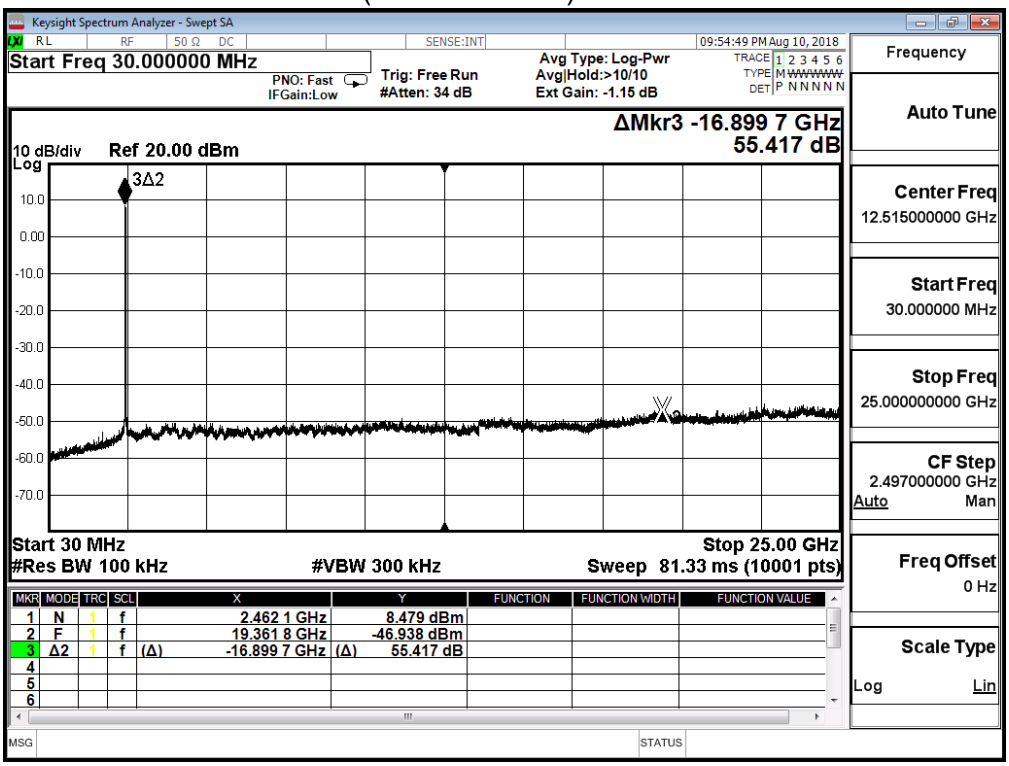
2412MHz (30MHz-25GHz)-802.11b-ANT 3



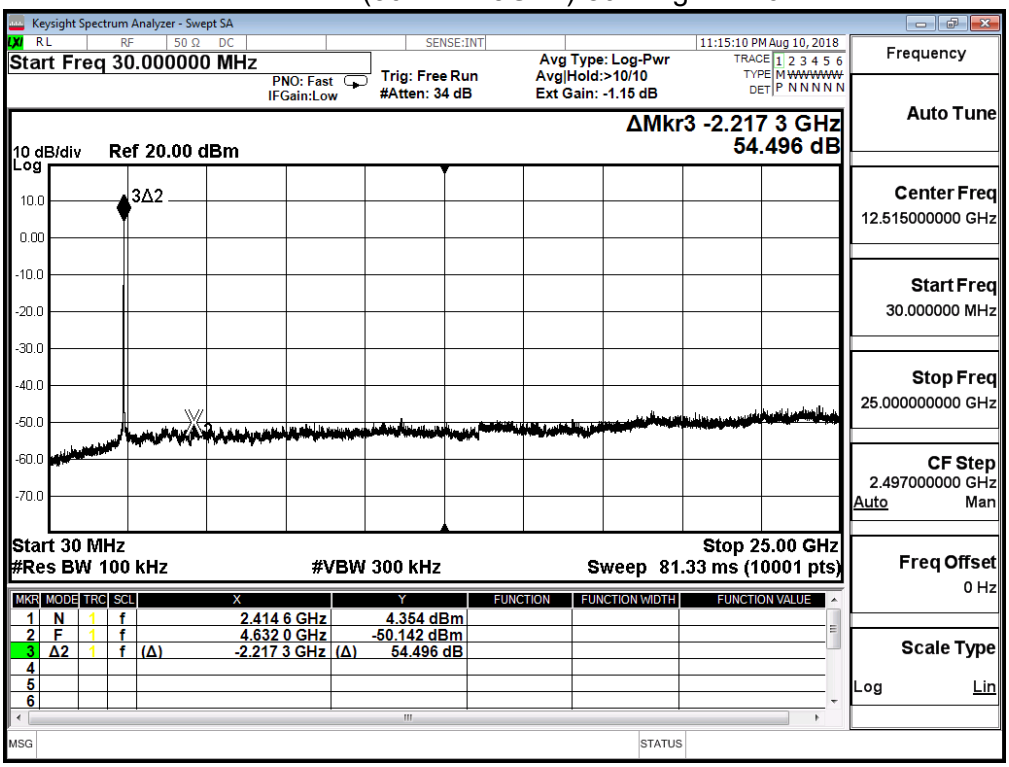
2437MHz (30MHz-25GHz)-802.11b-ANT 3



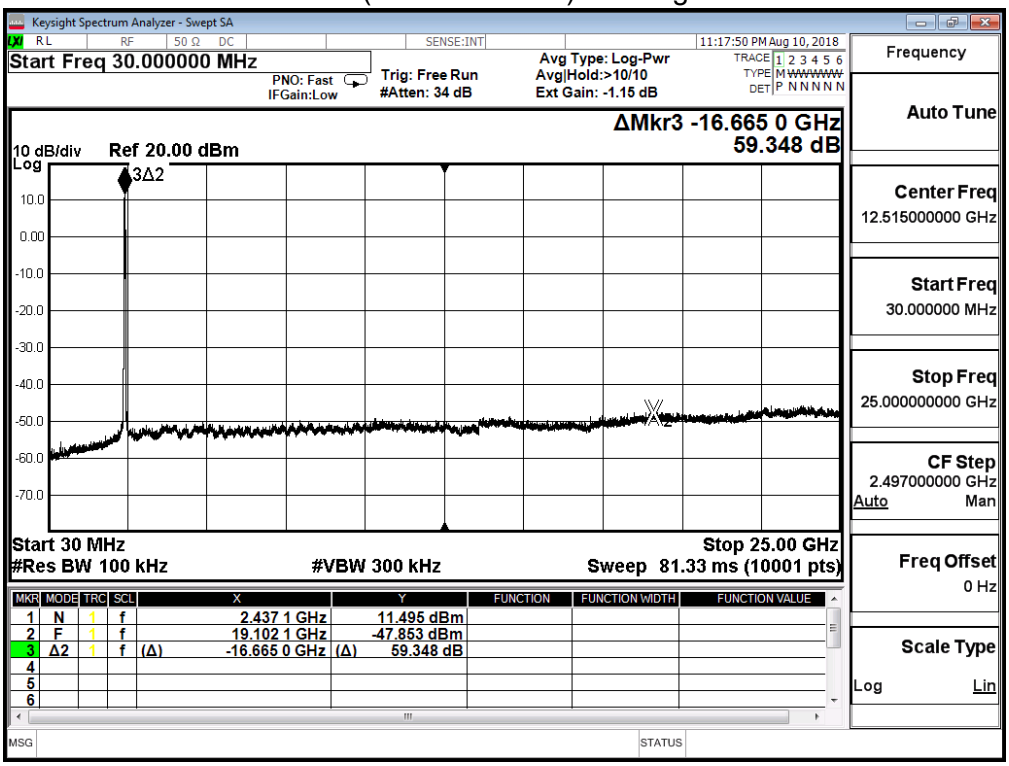
2462MHz (30MHz-25GHz)-802.11b-ANT 3



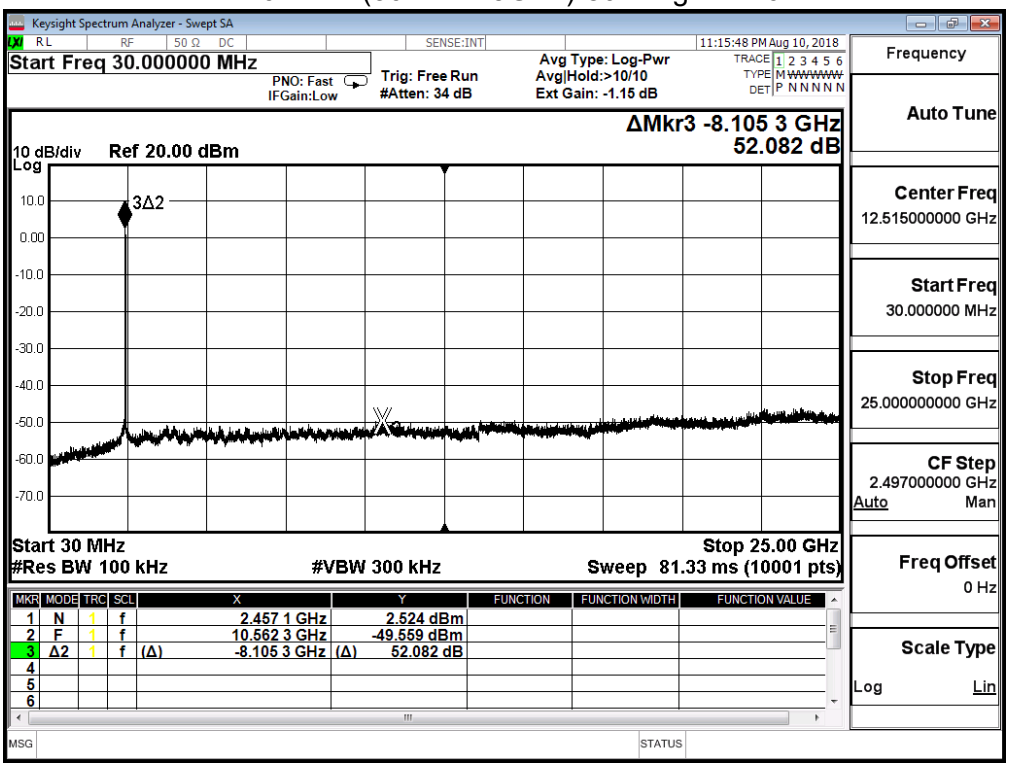
2412MHz (30MHz-25GHz)-802.11g-ANT 0



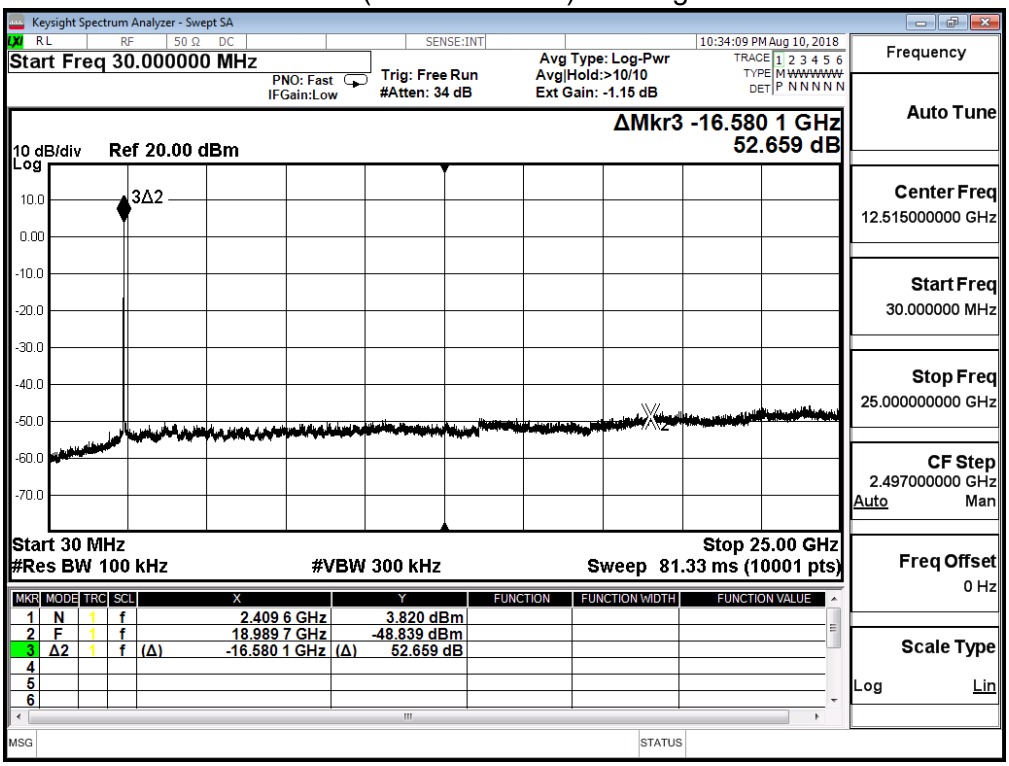
2437MHz (30MHz-25GHz)-802.11g-ANT 0



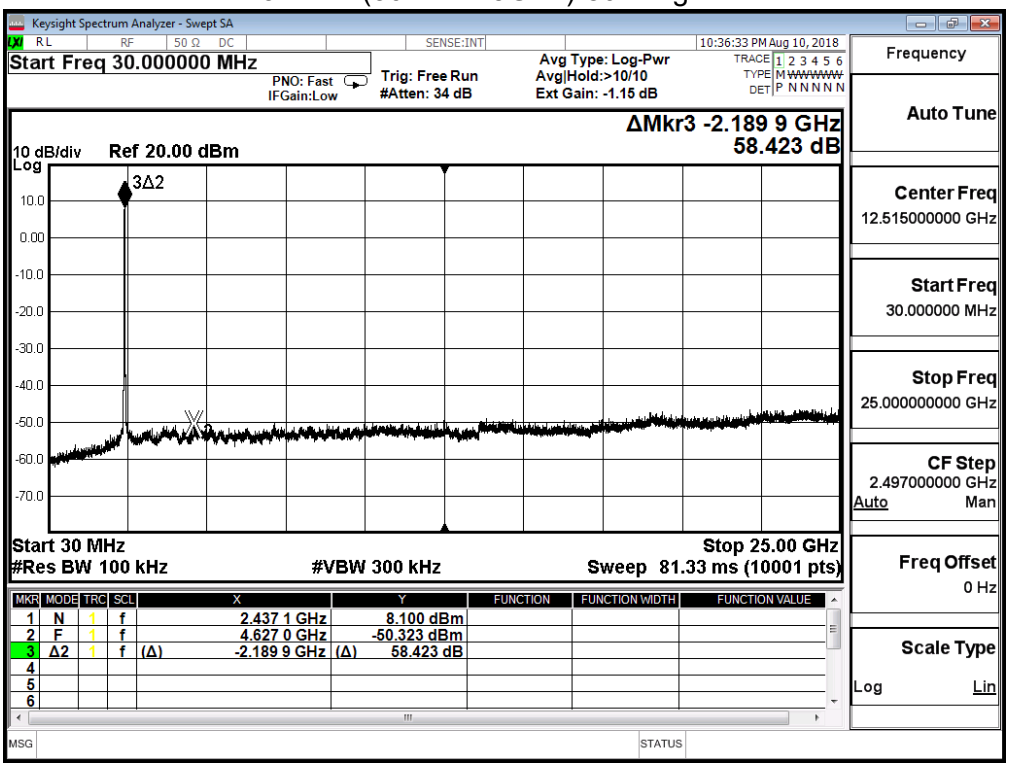
2462MHz (30MHz-25GHz)-802.11g-ANT 0



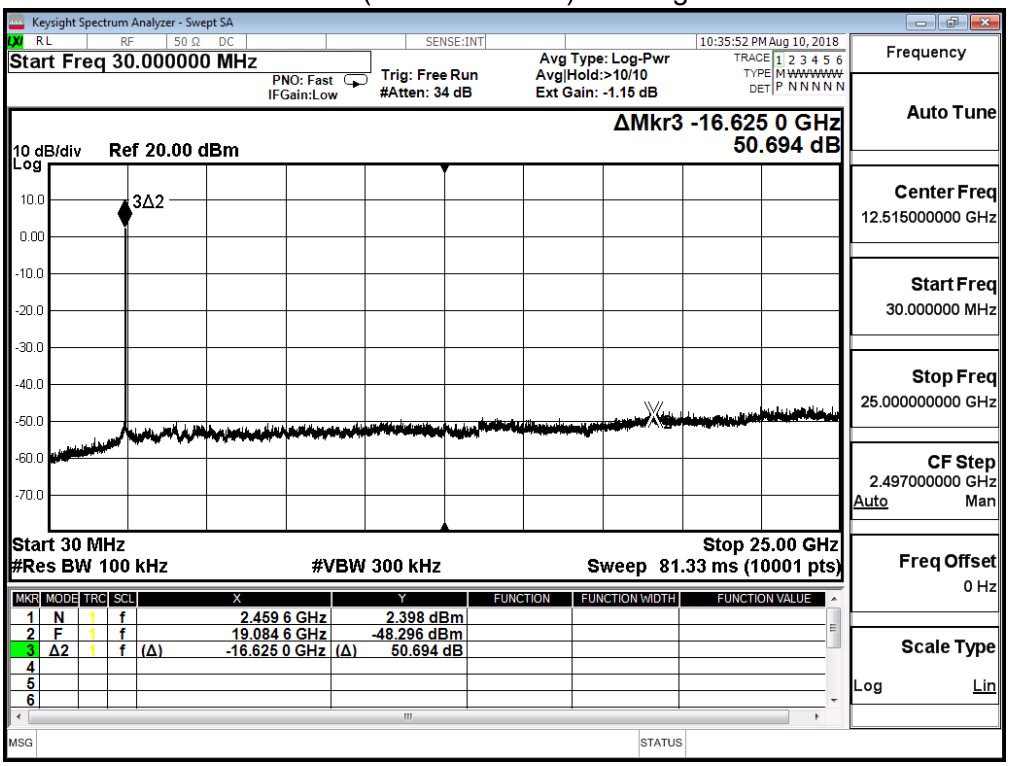
2412MHz (30MHz-25GHz)-802.11g-ANT 1



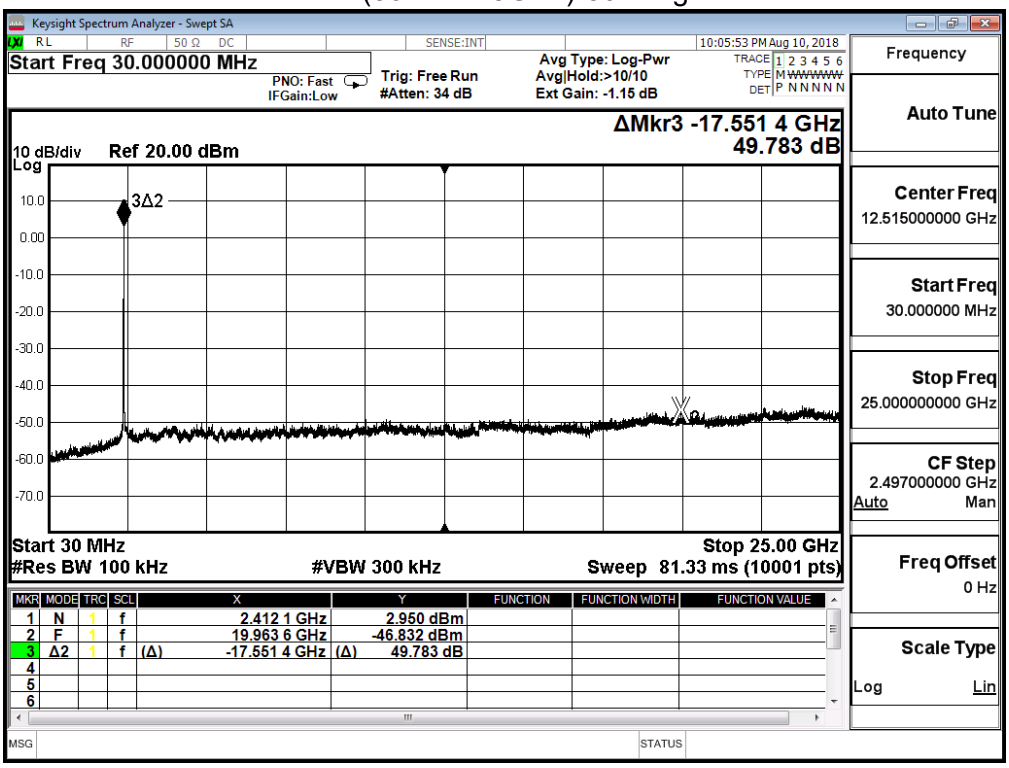
2437MHz (30MHz-25GHz)-802.11g-ANT 1



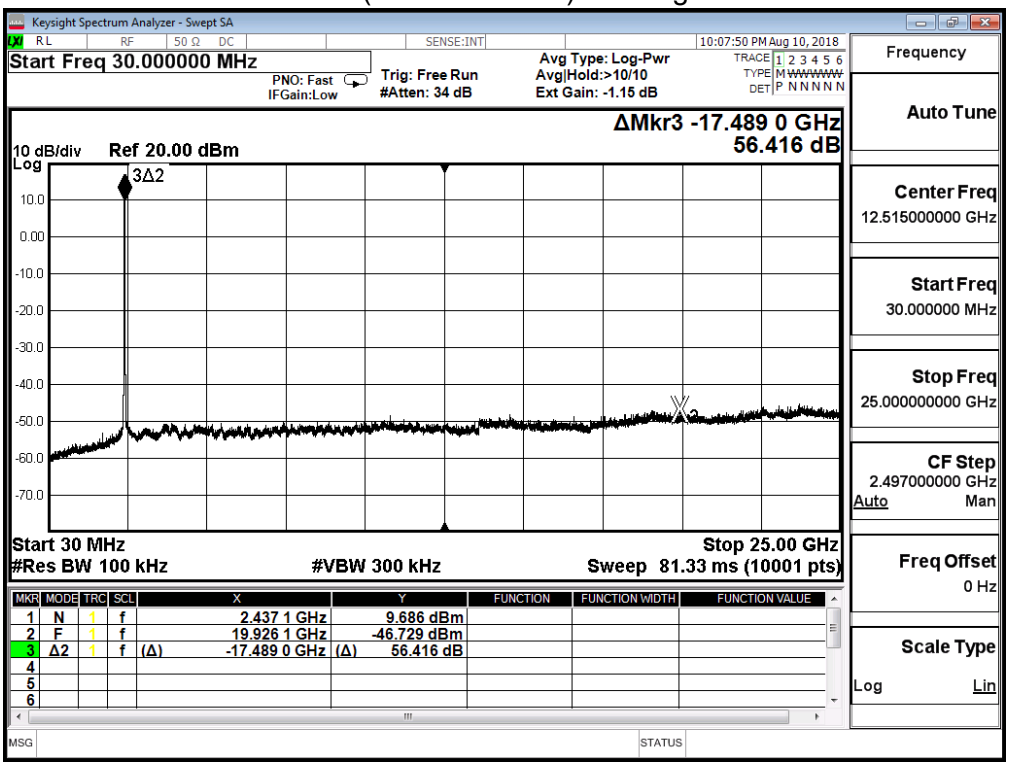
2462MHz (30MHz-25GHz)-802.11g-ANT 1



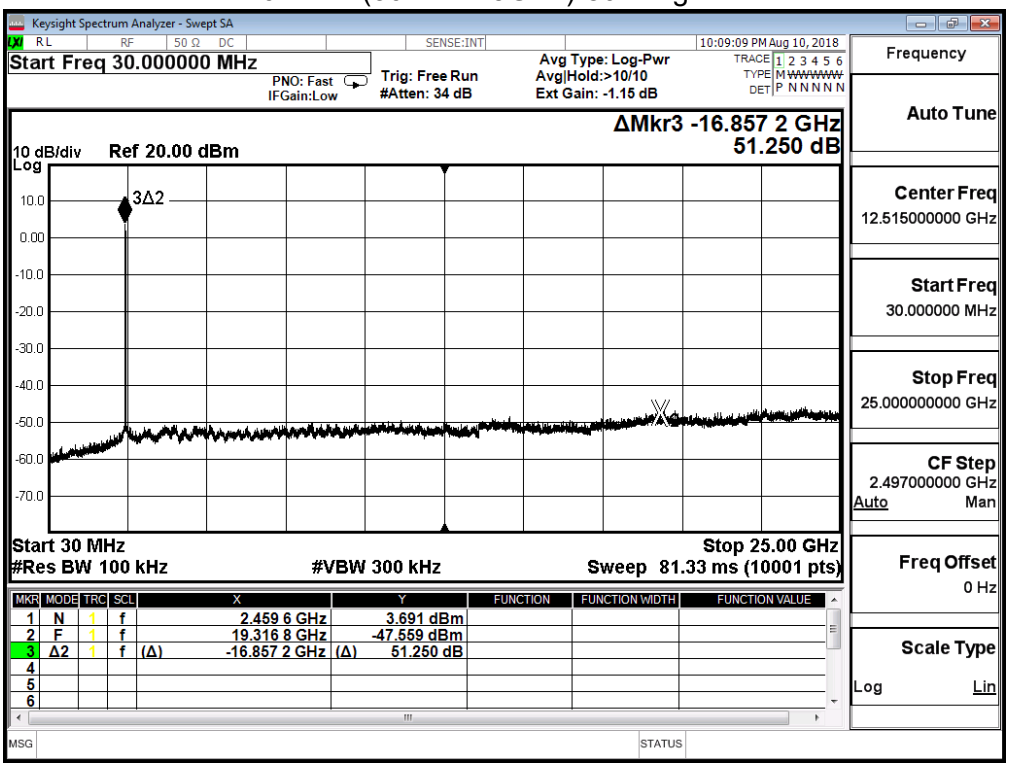
2412MHz (30MHz-25GHz)-802.11g-ANT 2



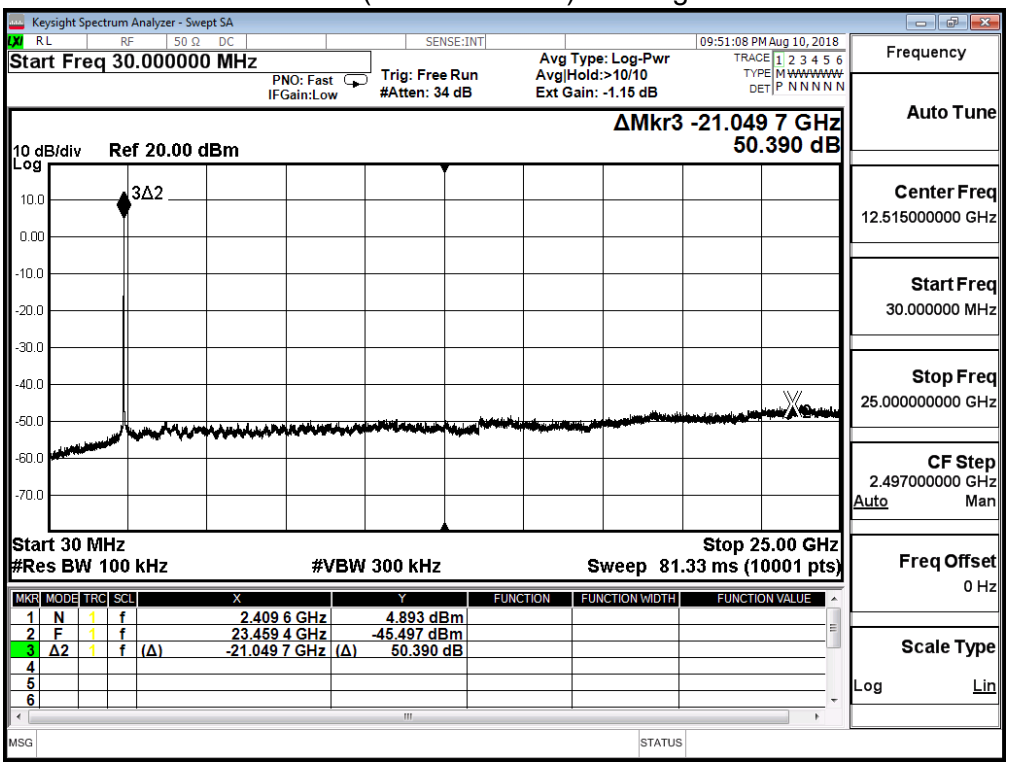
2437MHz (30MHz-25GHz)-802.11g-ANT 2



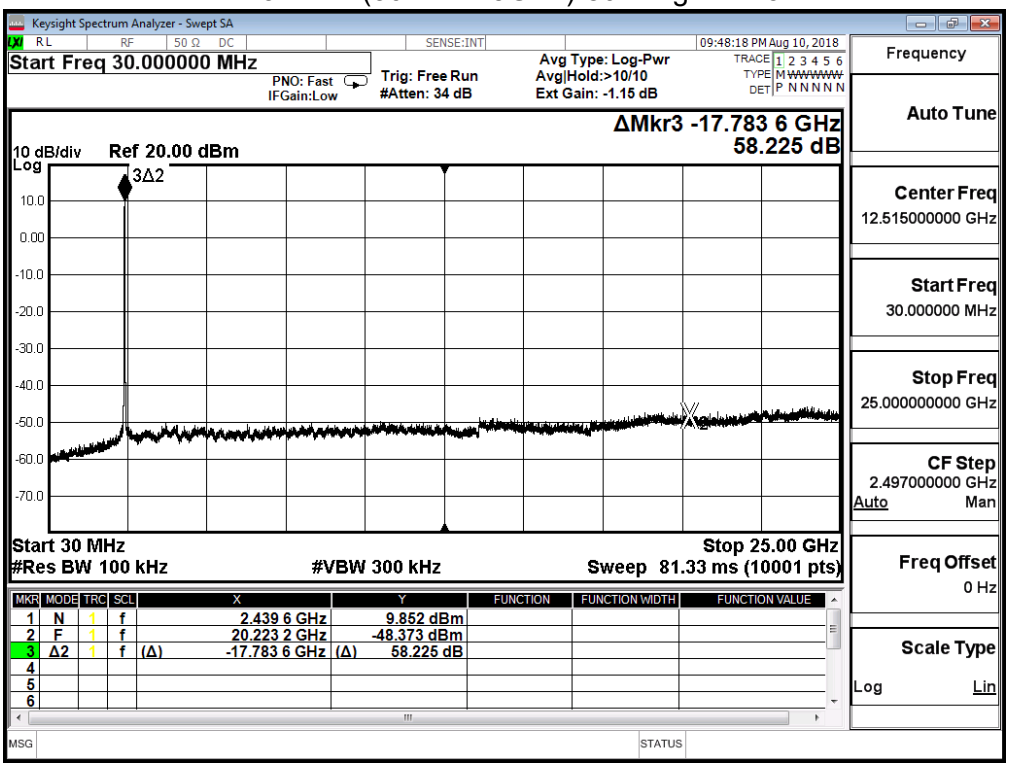
2462MHz (30MHz-25GHz)-802.11g-ANT 2



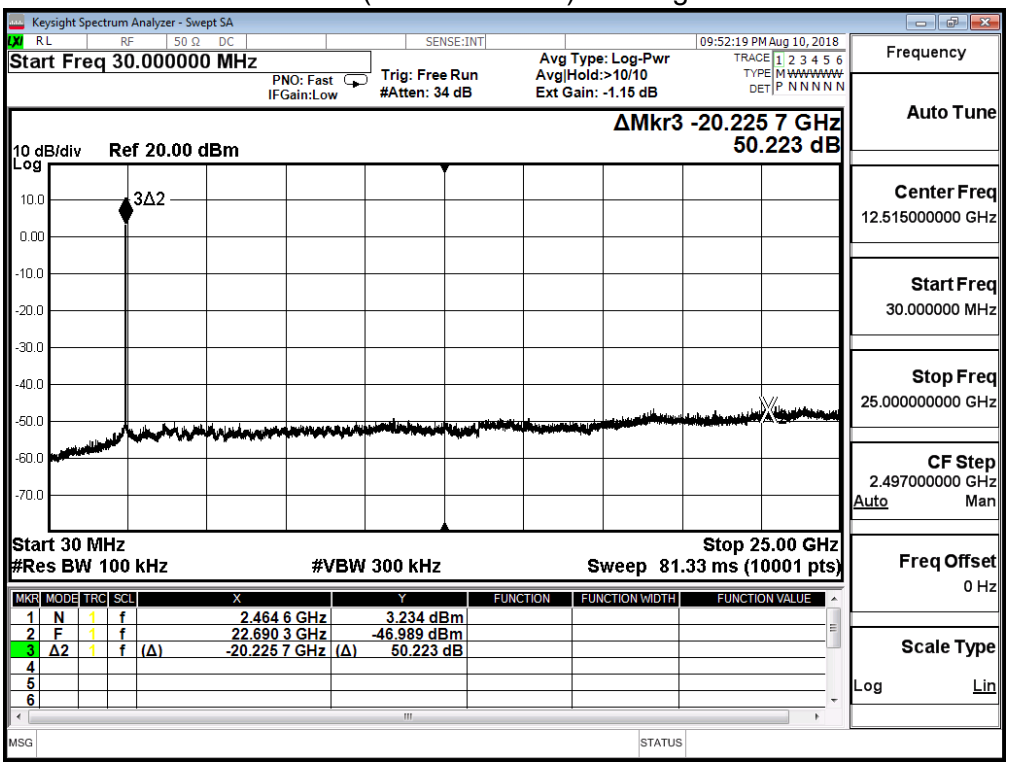
2412MHz (30MHz-25GHz)-802.11g-ANT 3



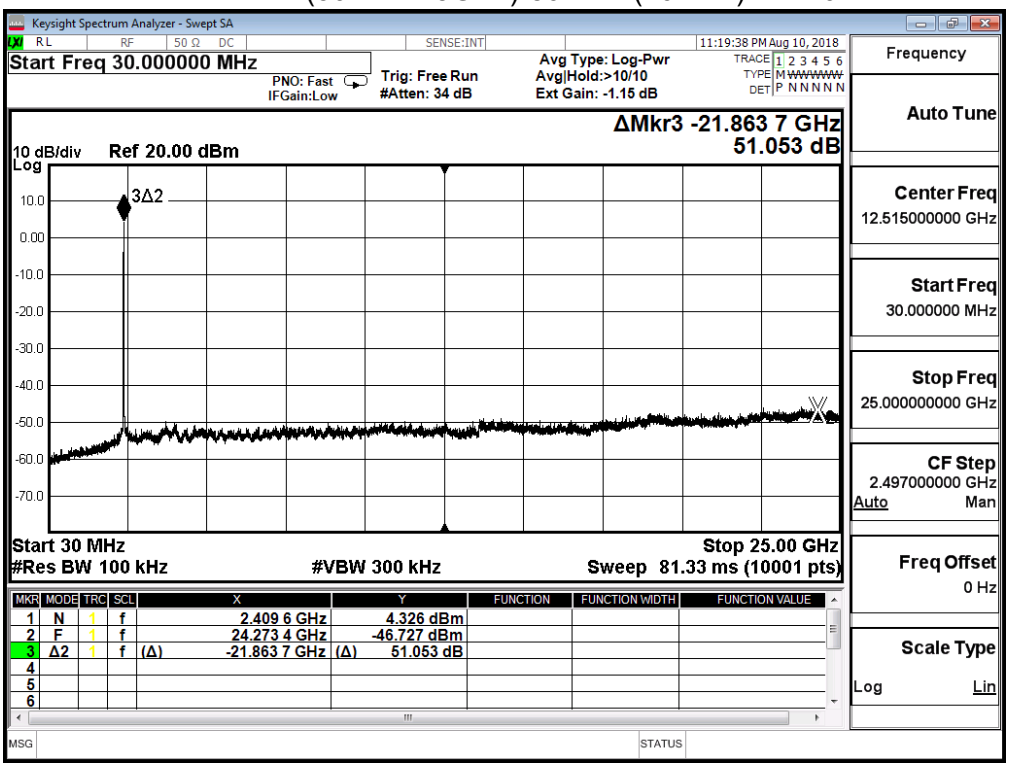
2437MHz (30MHz-25GHz)-802.11g-ANT 3



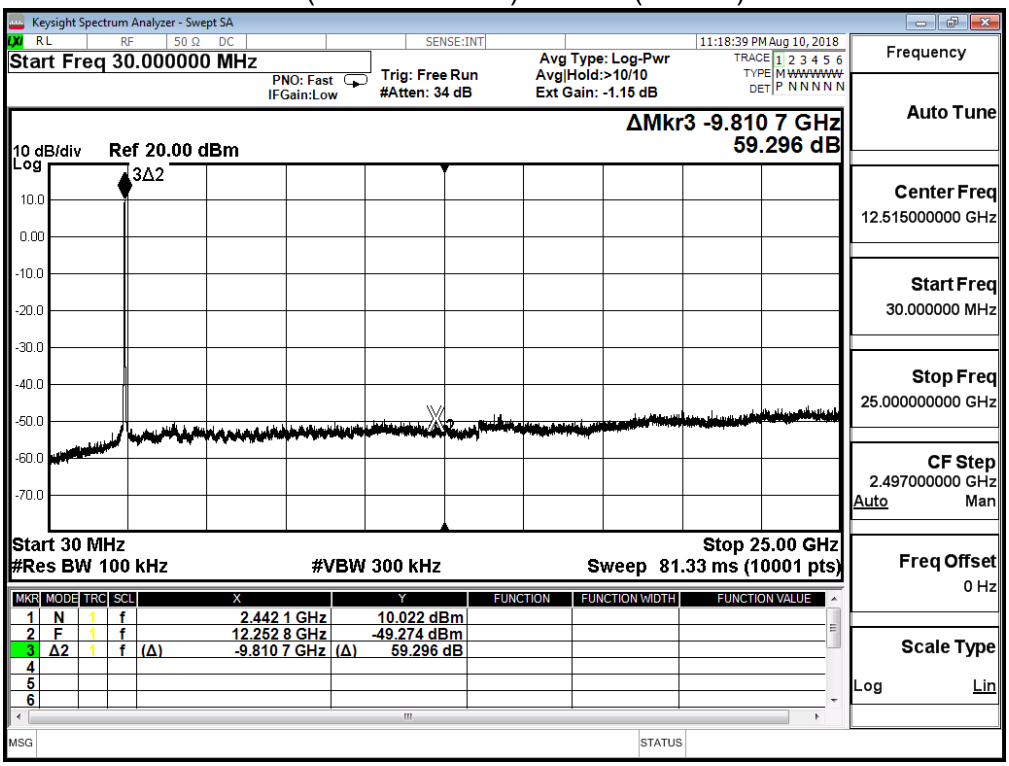
2462MHz (30MHz-25GHz)-802.11g-ANT 3



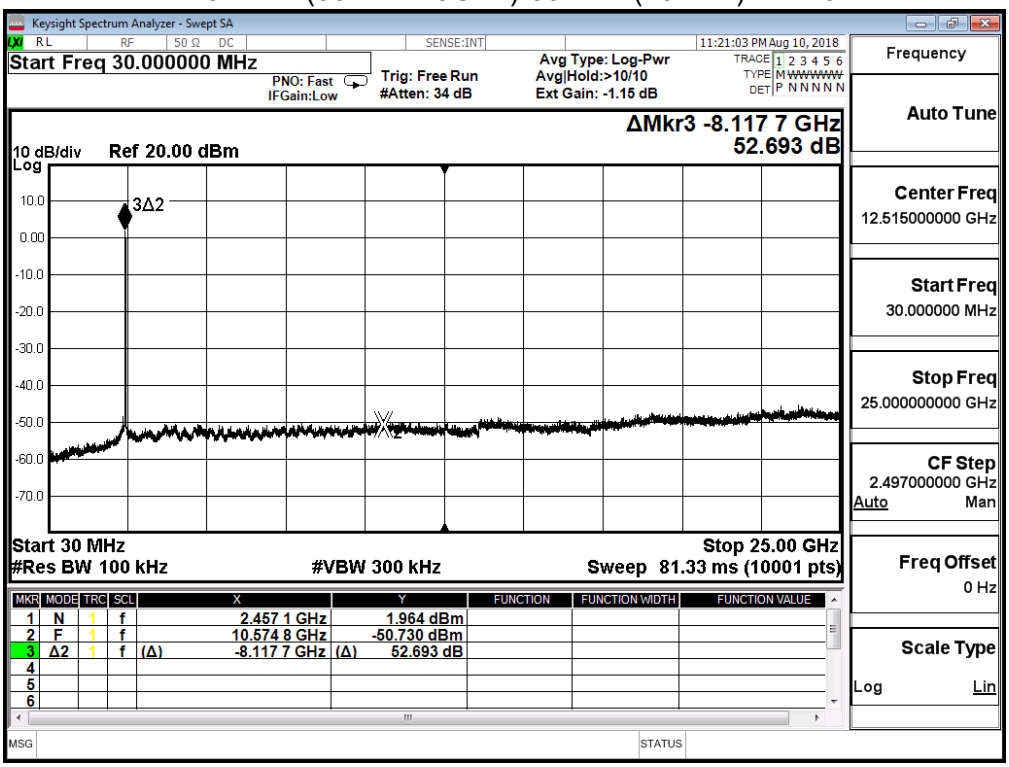
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



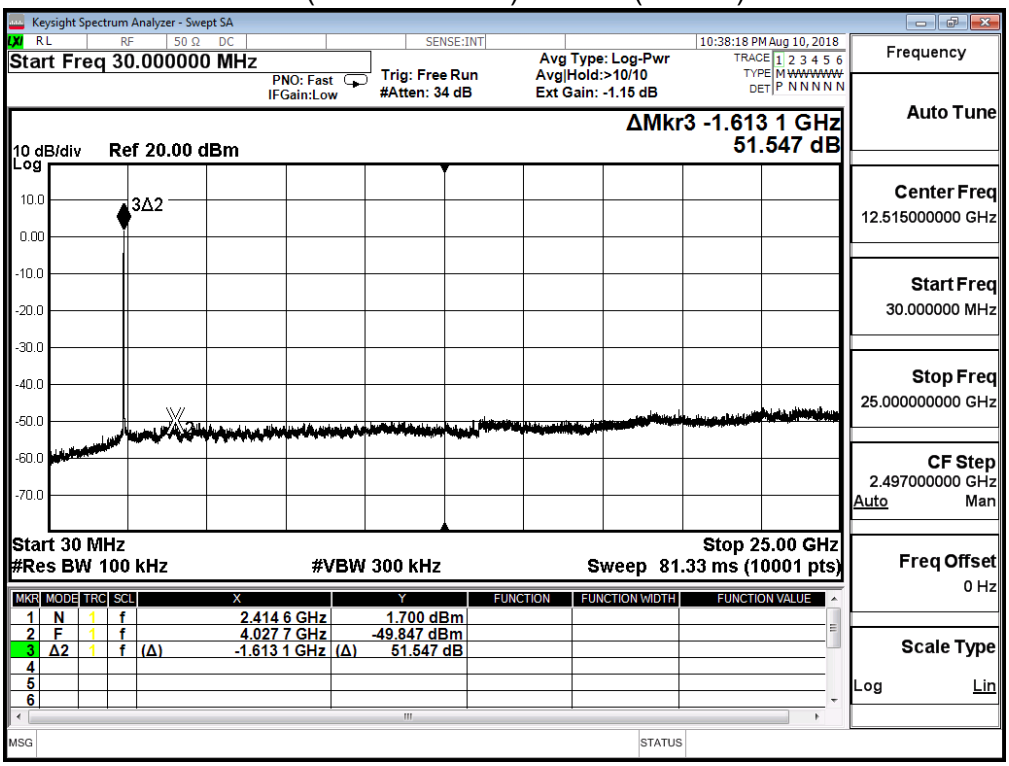
2437MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



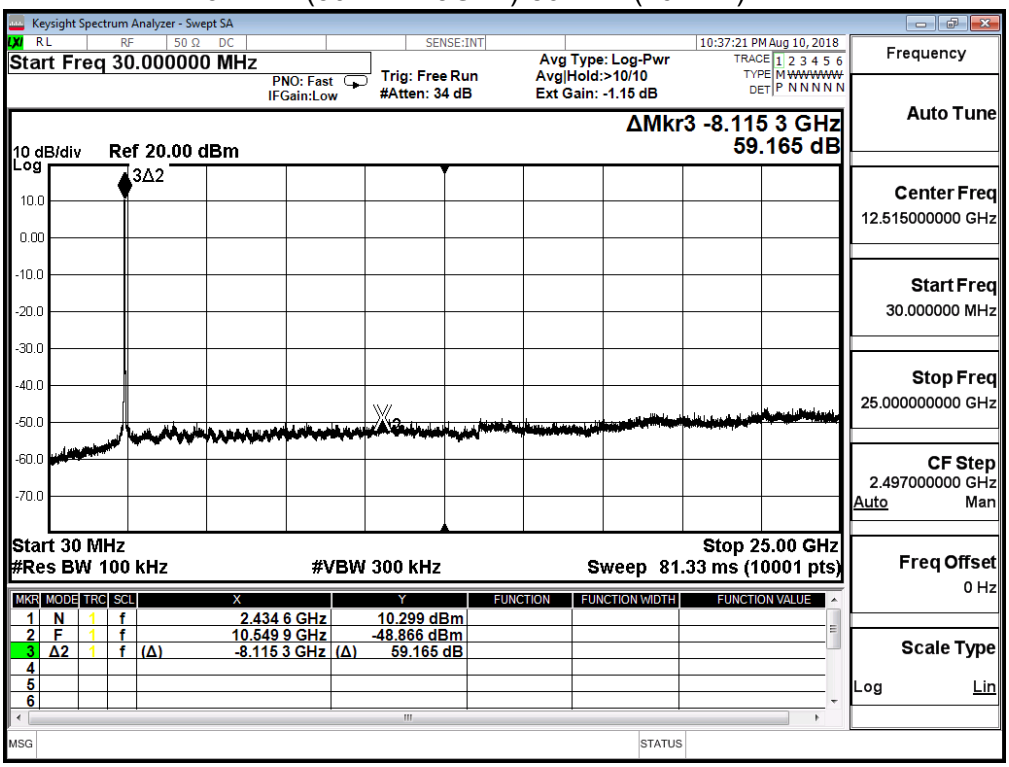
2462MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



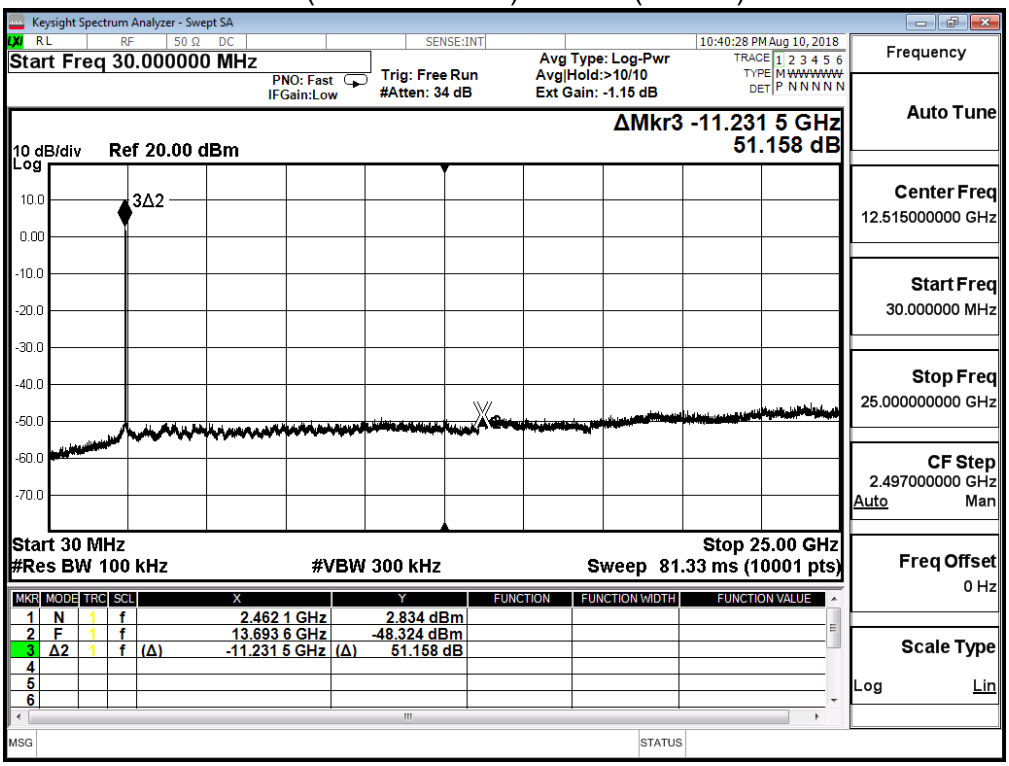
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



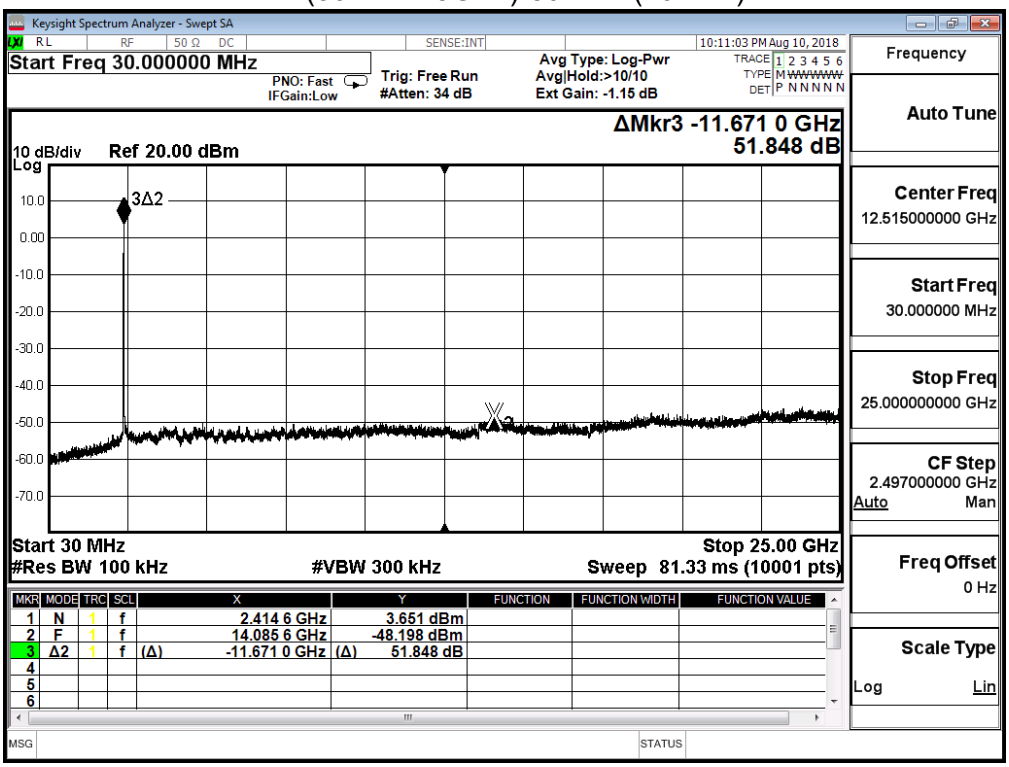
2437MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



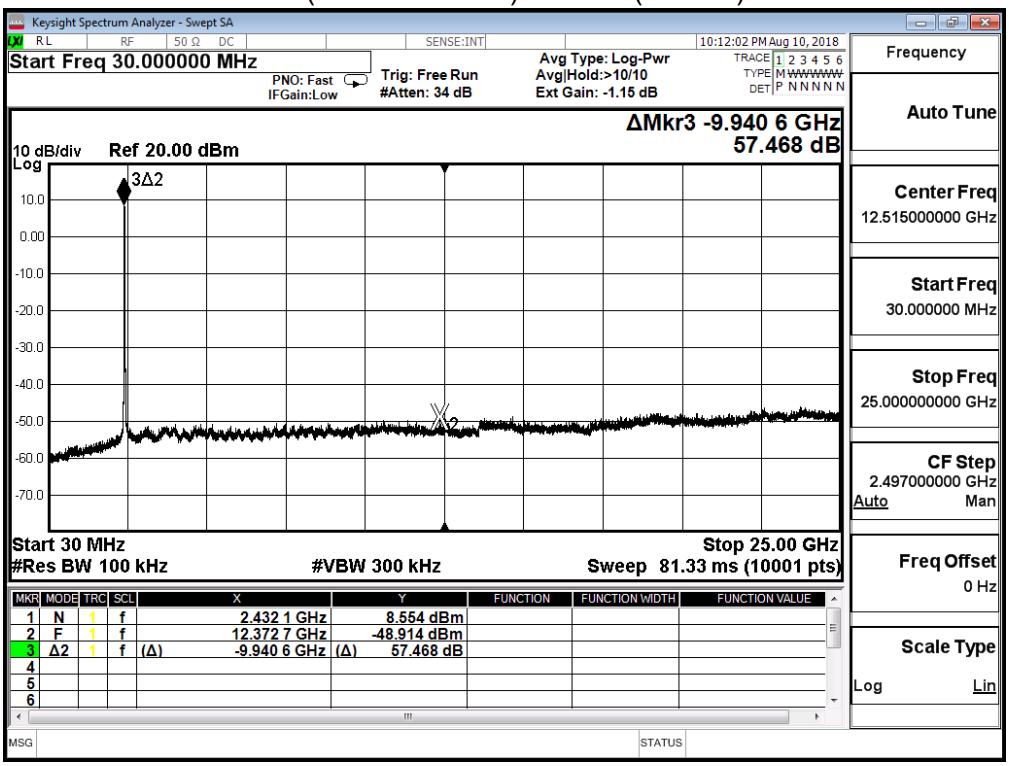
2462MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



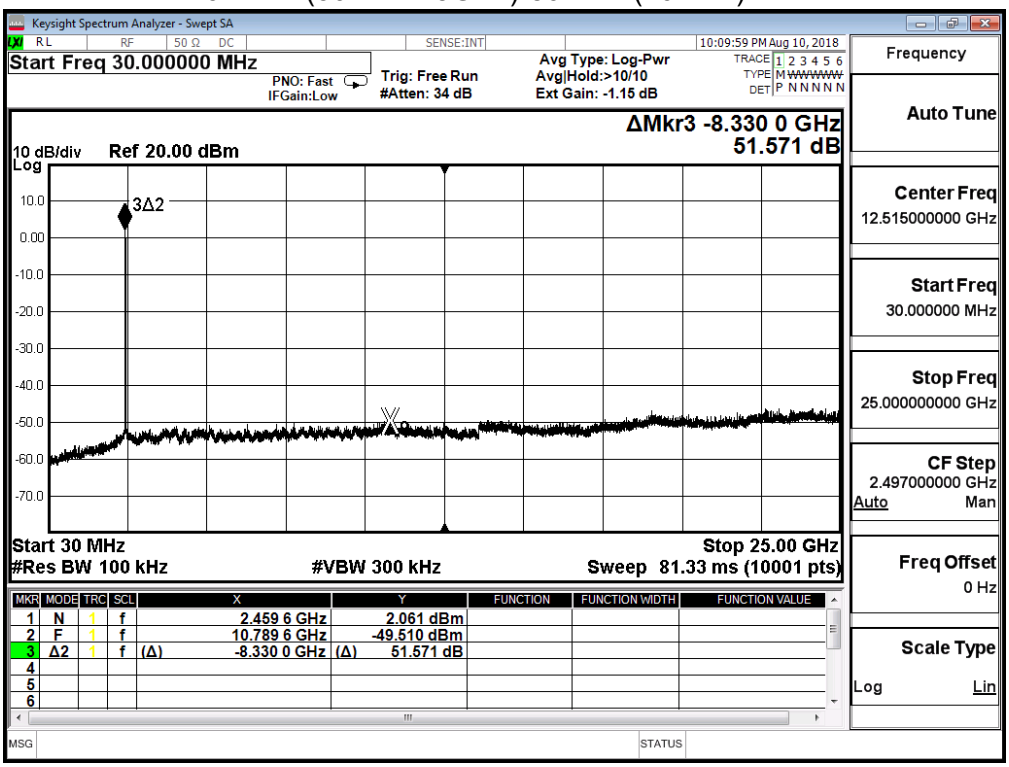
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 2



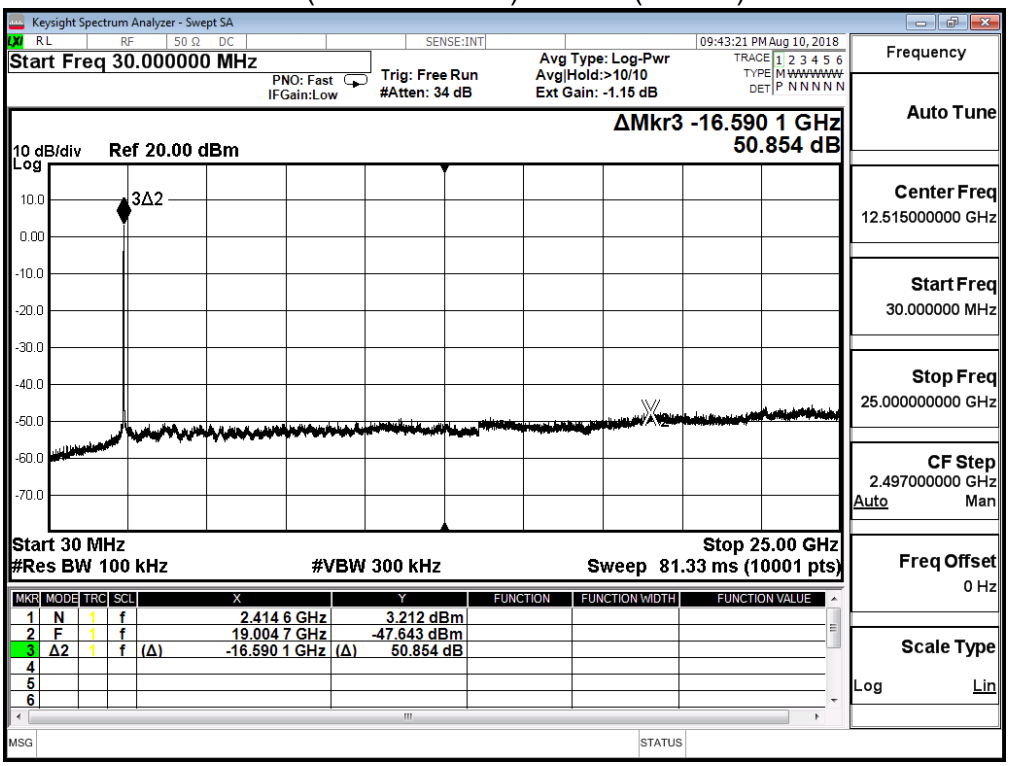
2437MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 2



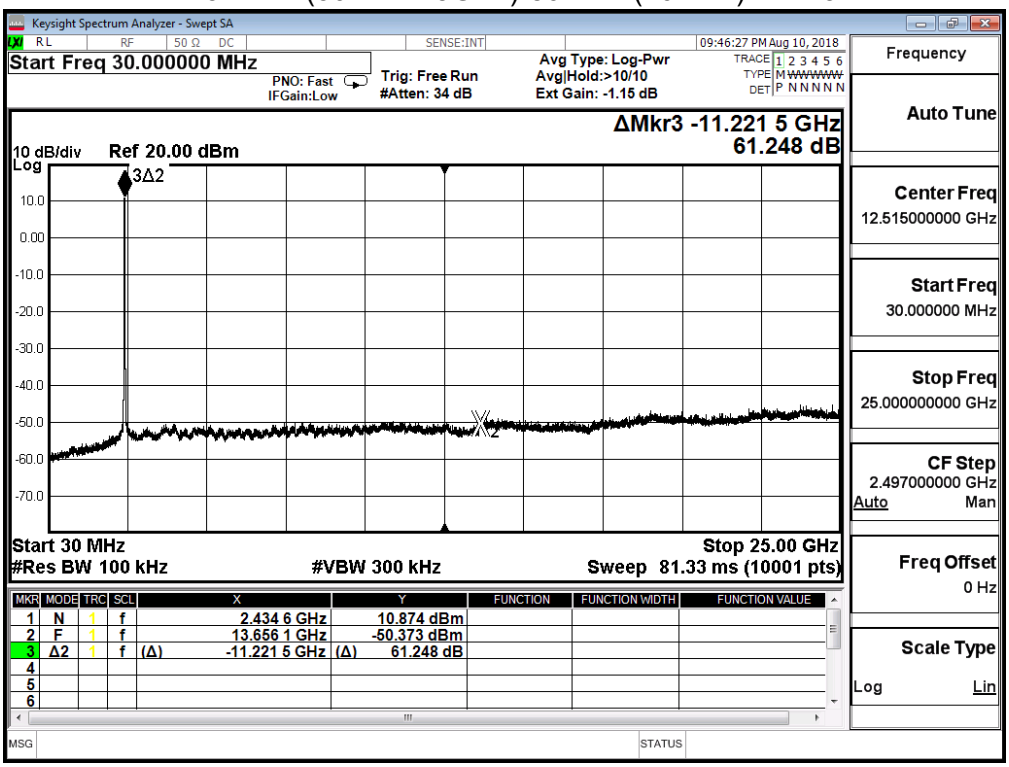
2462MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 2



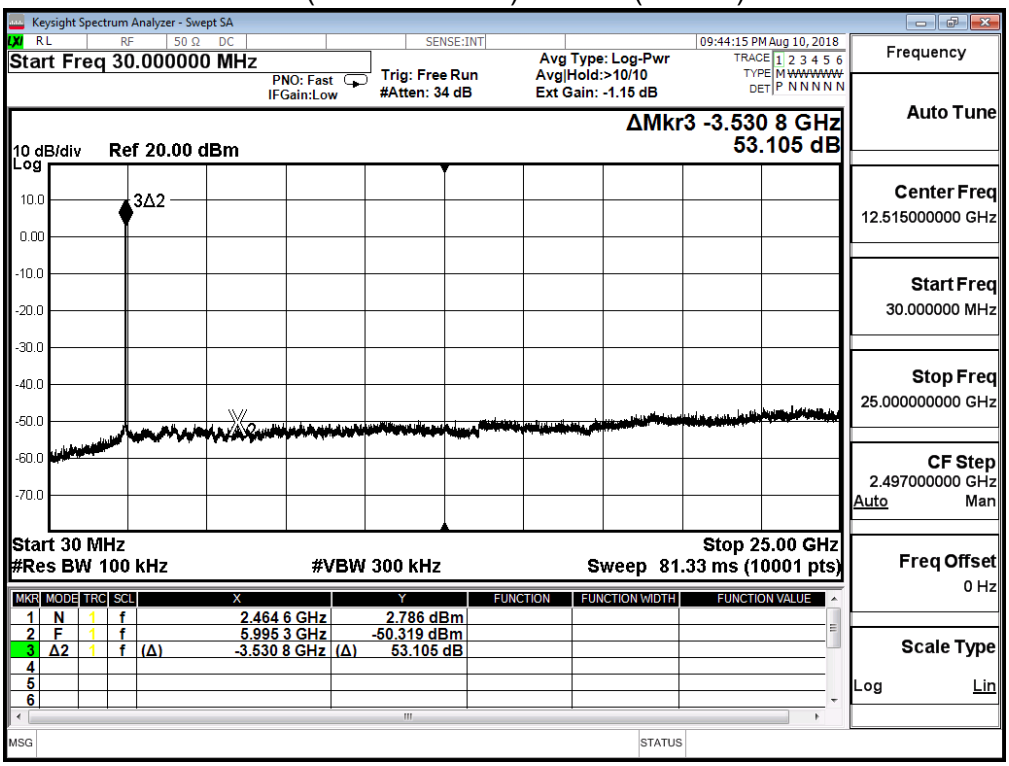
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 3



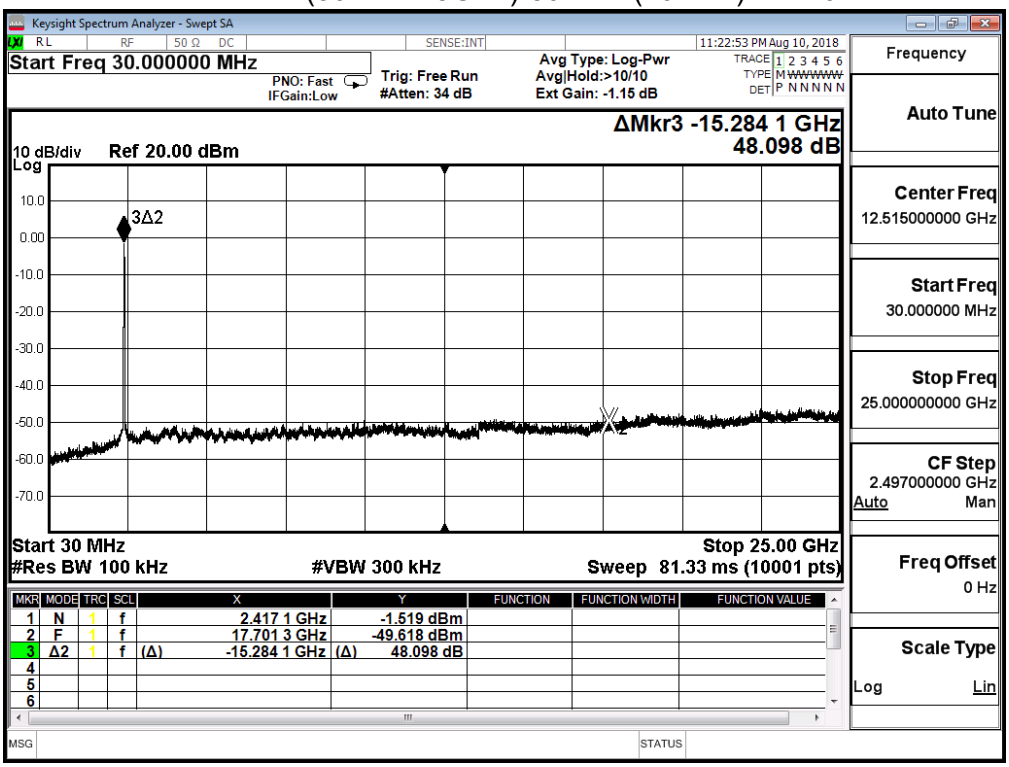
2437MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 3



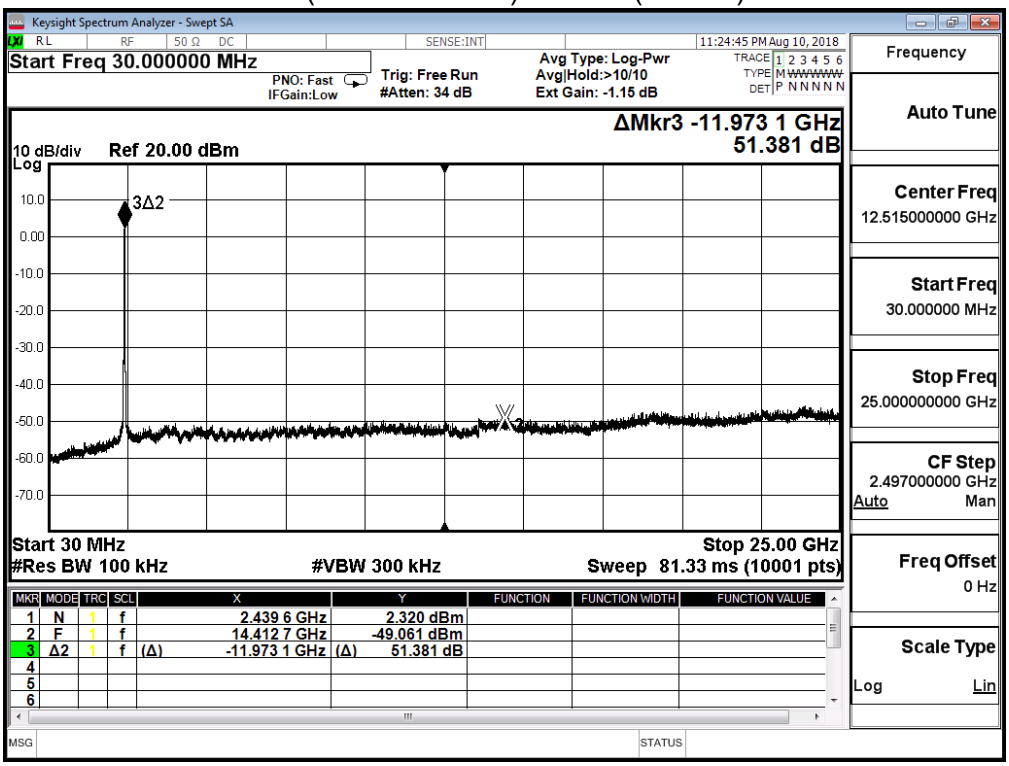
2462MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 3



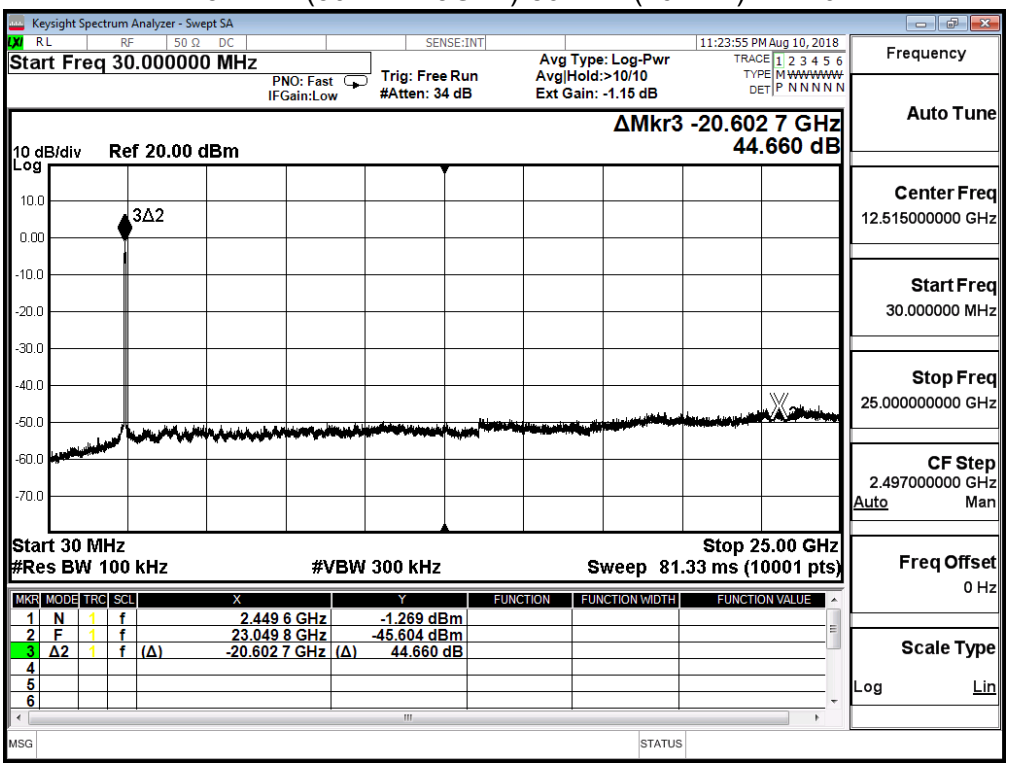
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



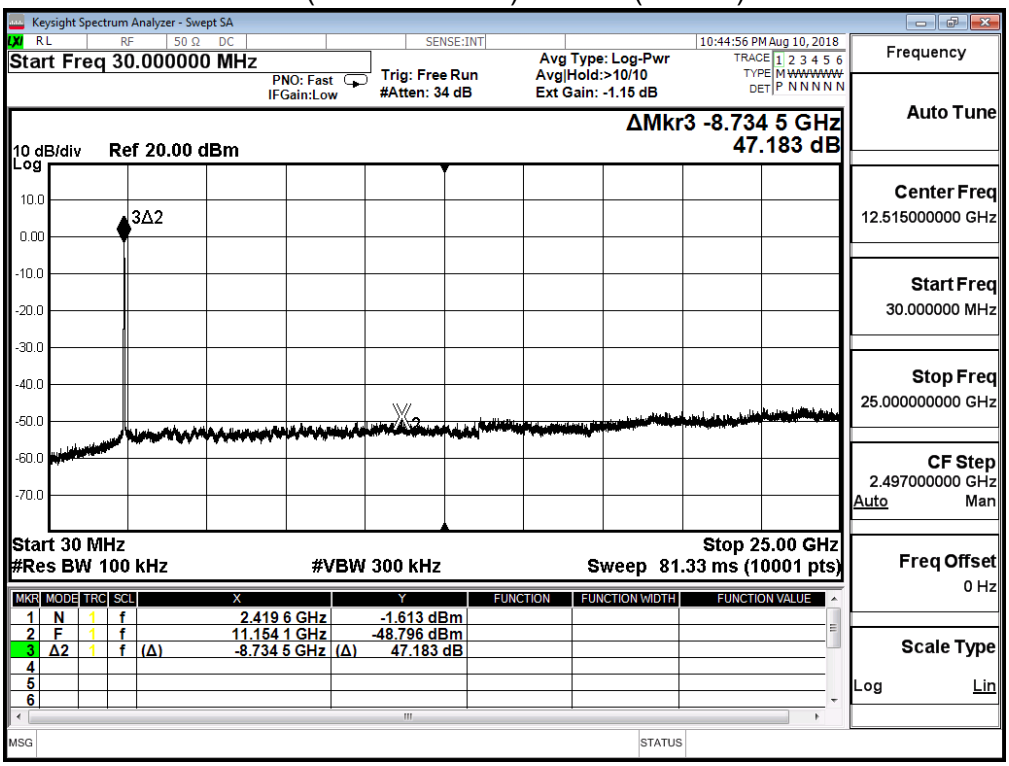
2437MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



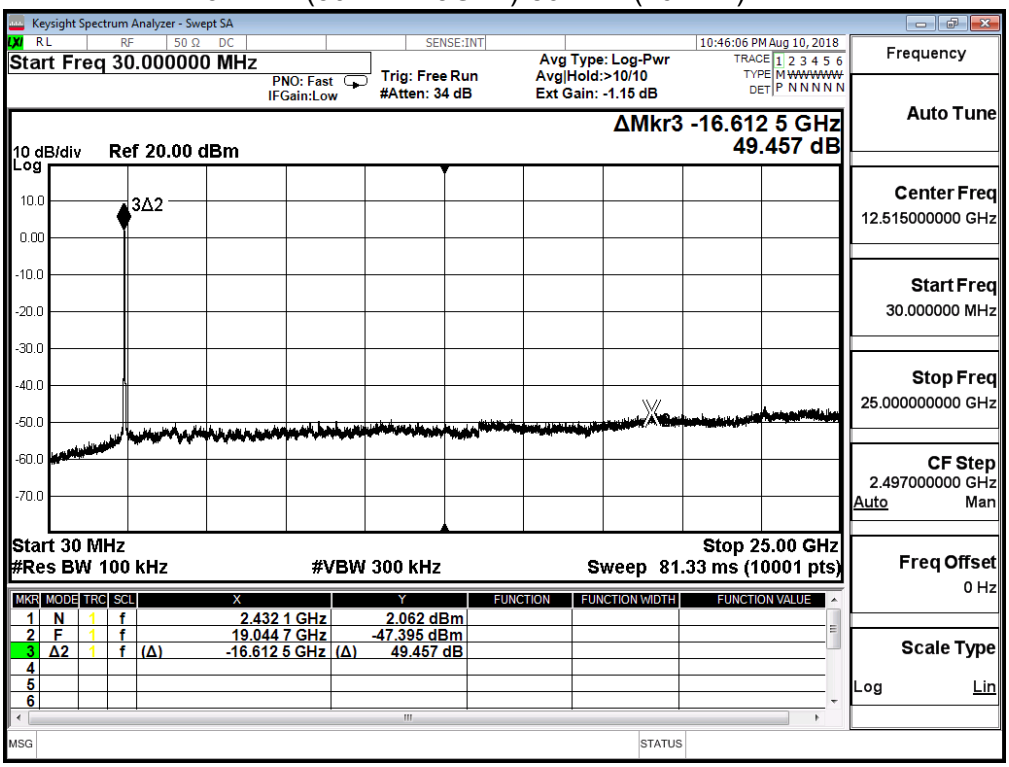
2452MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



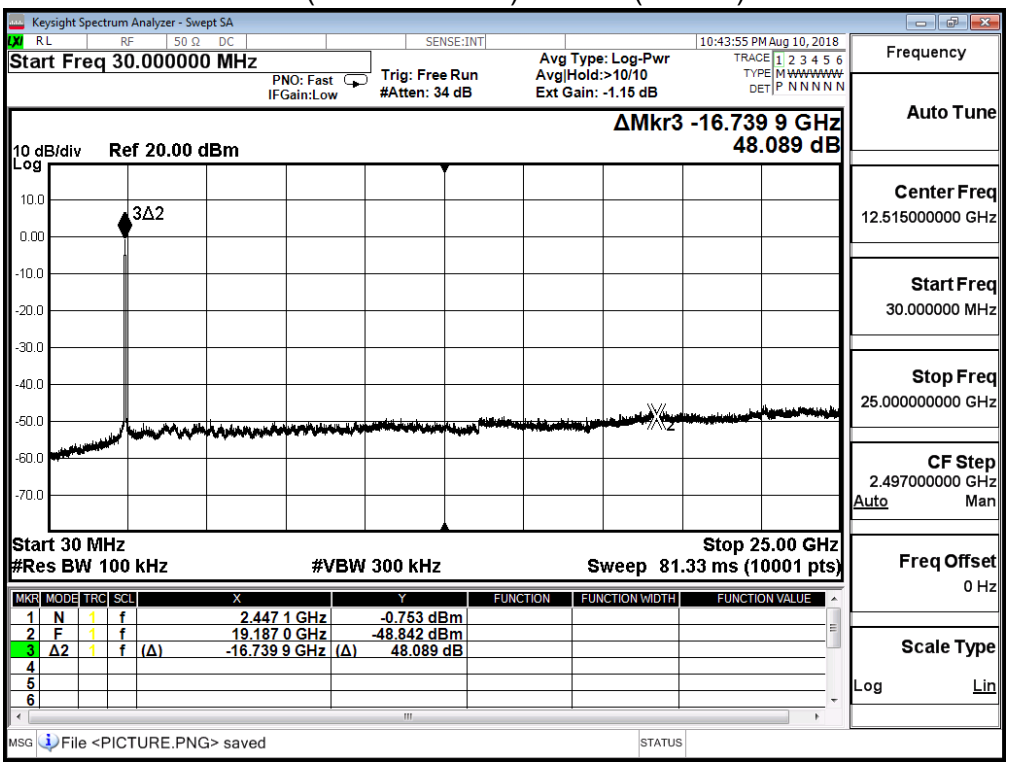
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1



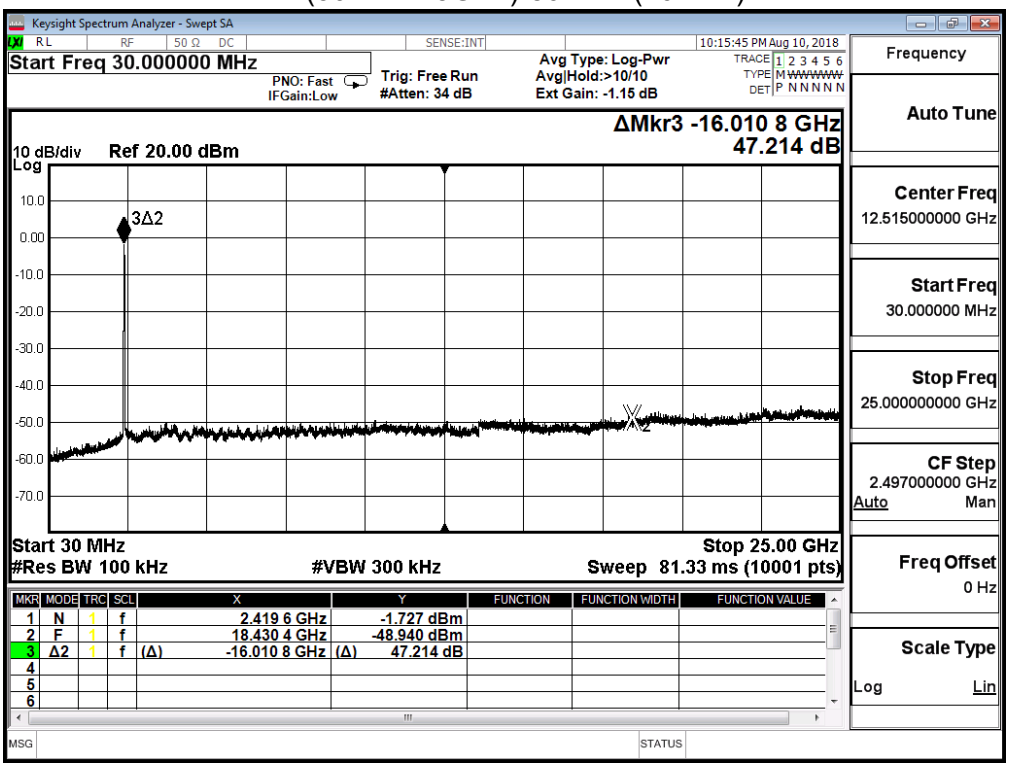
2437MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1



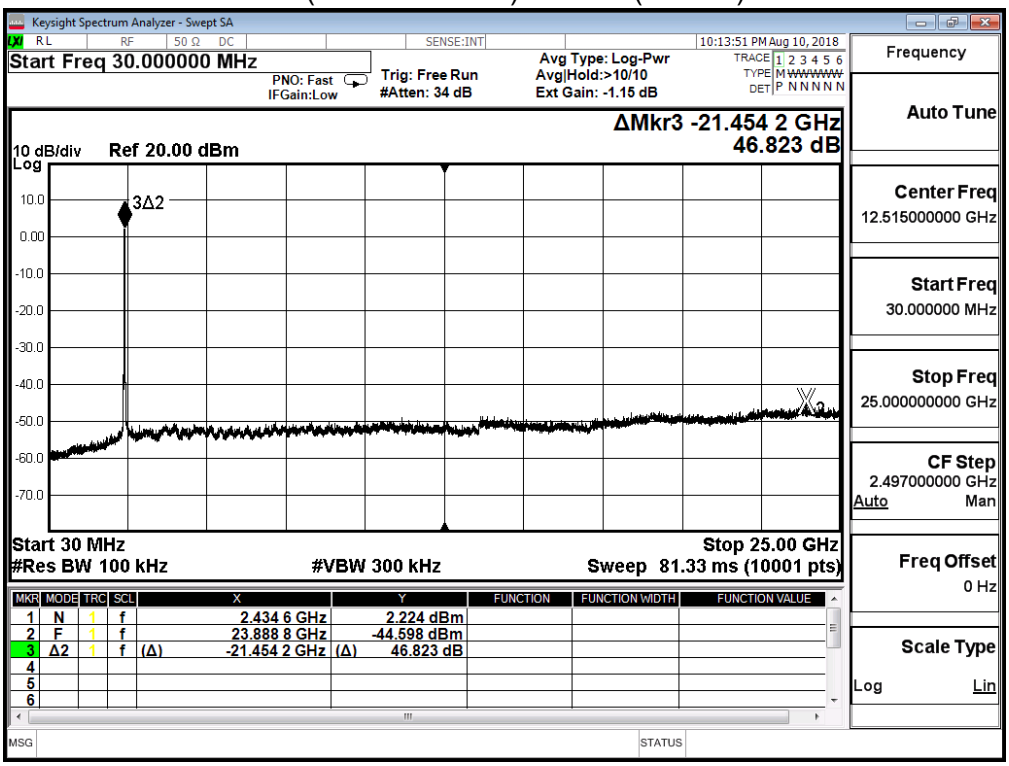
2452MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 1



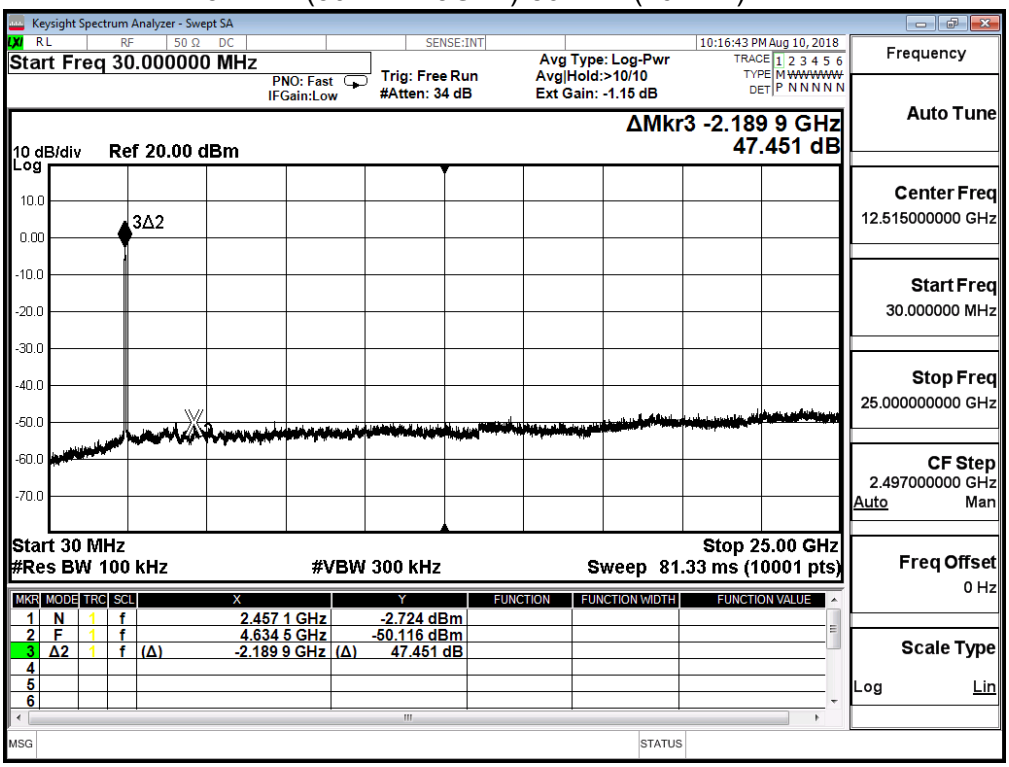
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 2



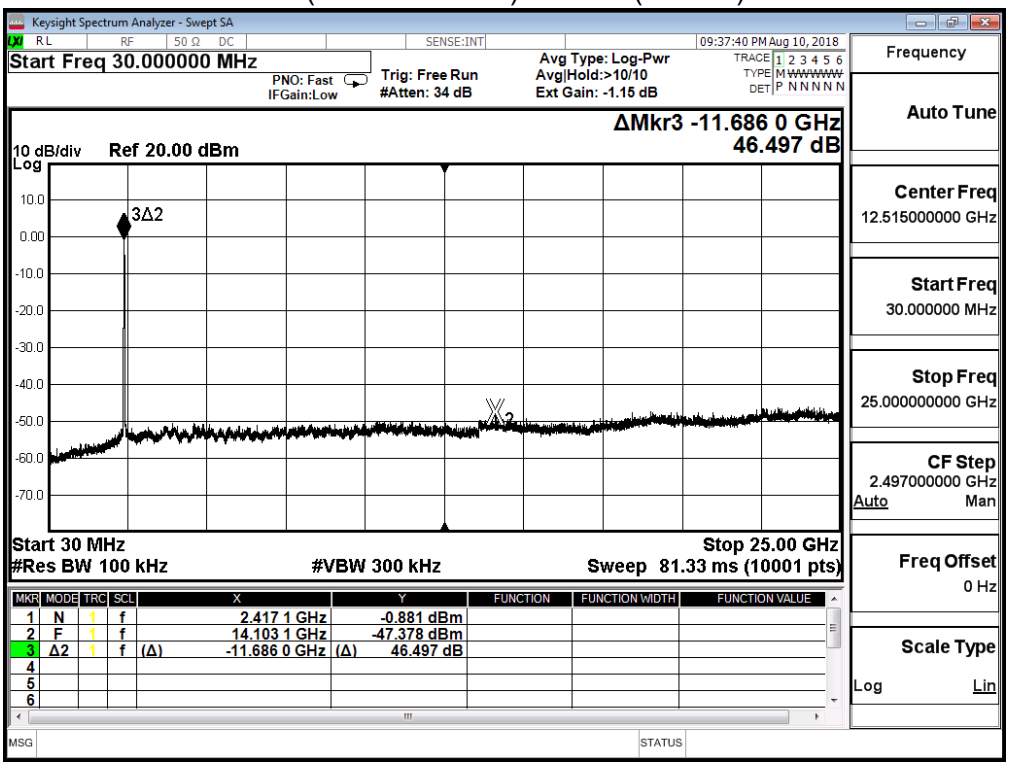
2437MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 2



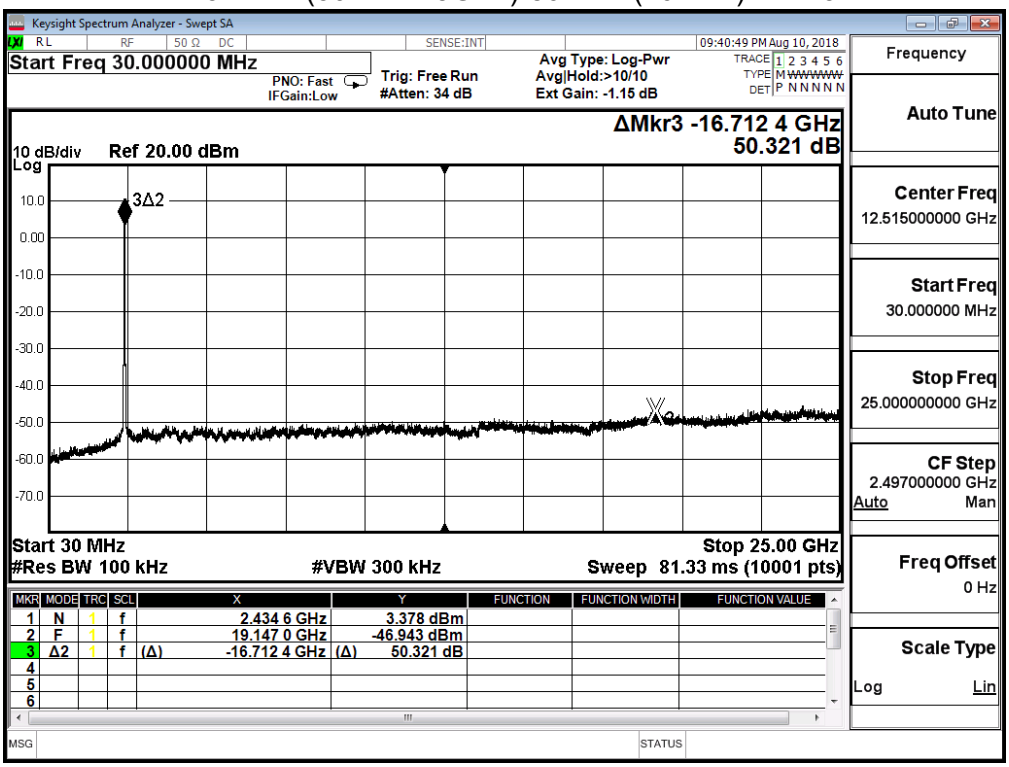
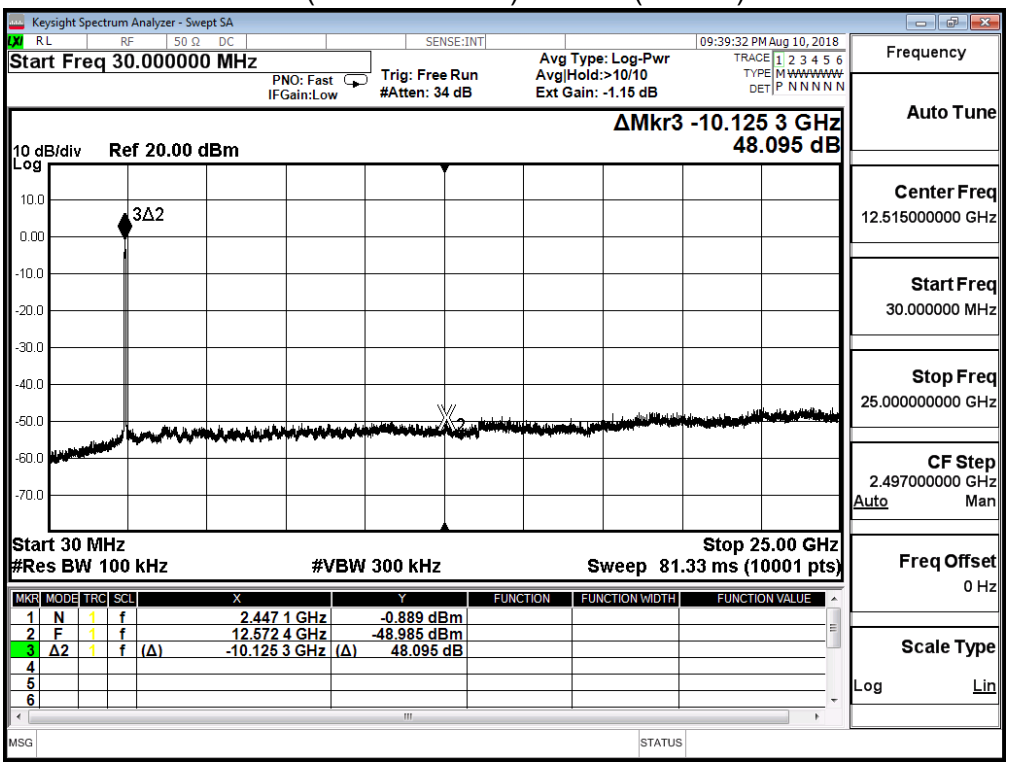
2452MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 2



2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 3



2437MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 3



2452MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 3