



802.11g-2412MHz Chain 0



802.11g-2412MHz Chain 1



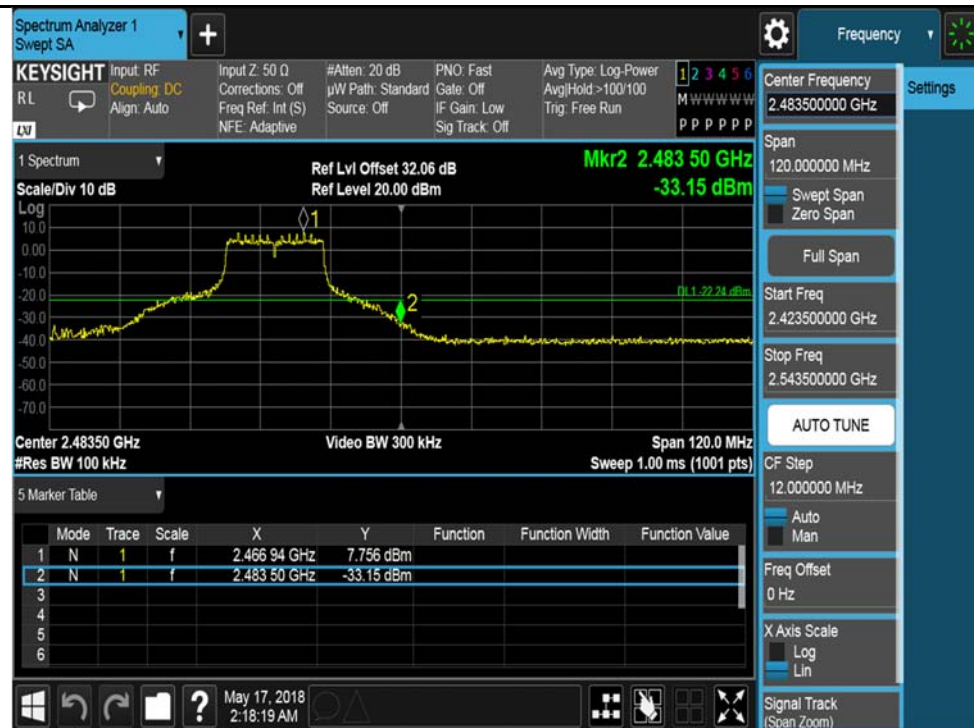
802.11g-2412MHz Chain 2



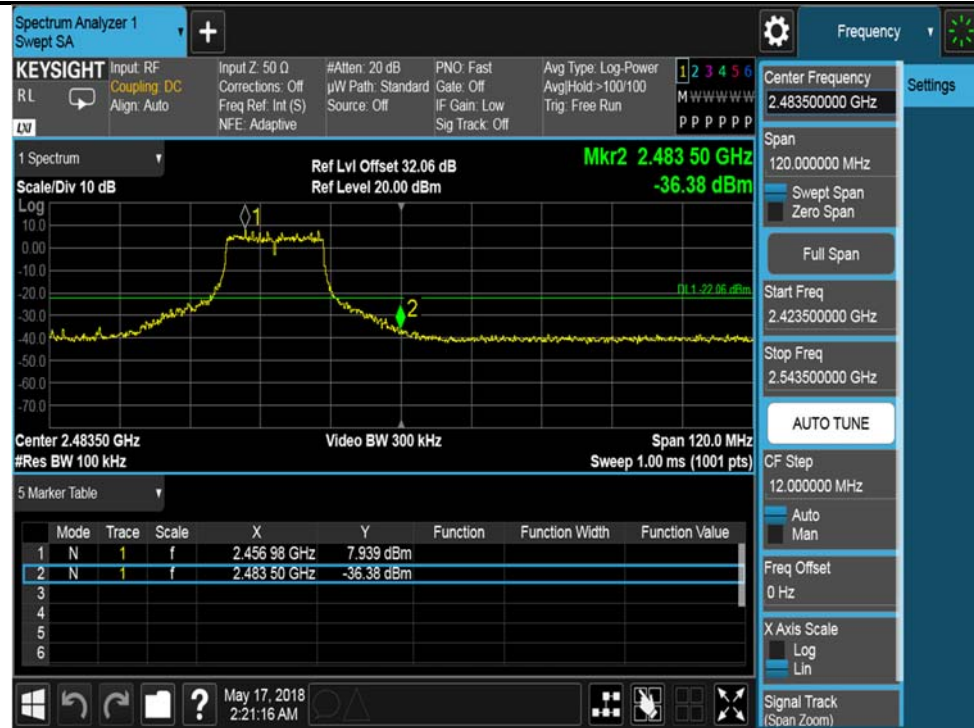
802.11g-2412MHz Chain 3



802.11g-2462MHz Chain 0



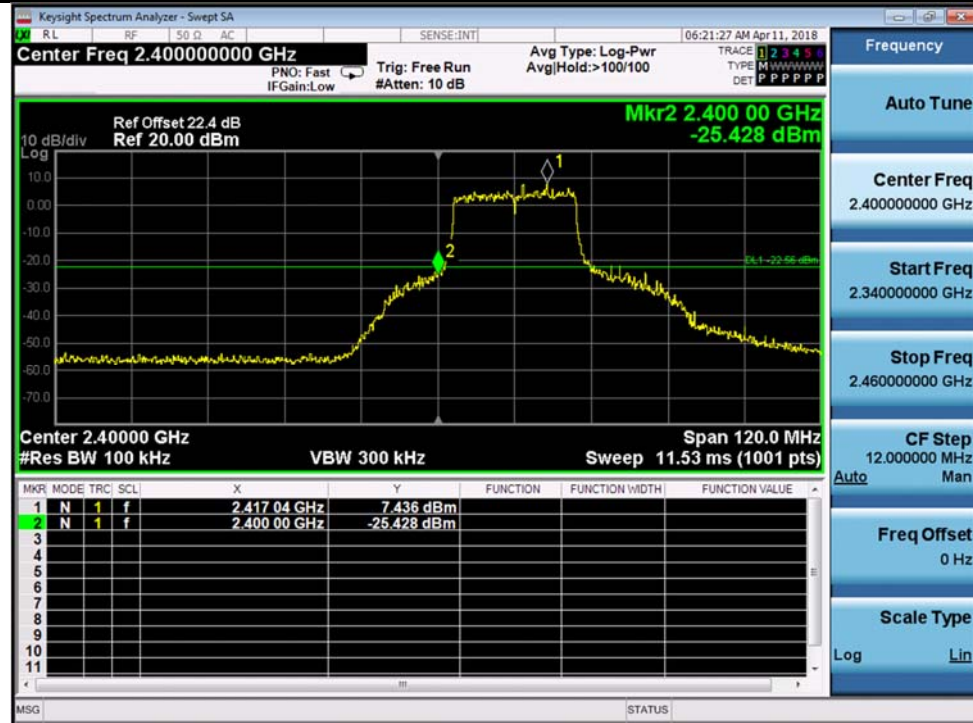
802.11g-2462MHz Chain 1



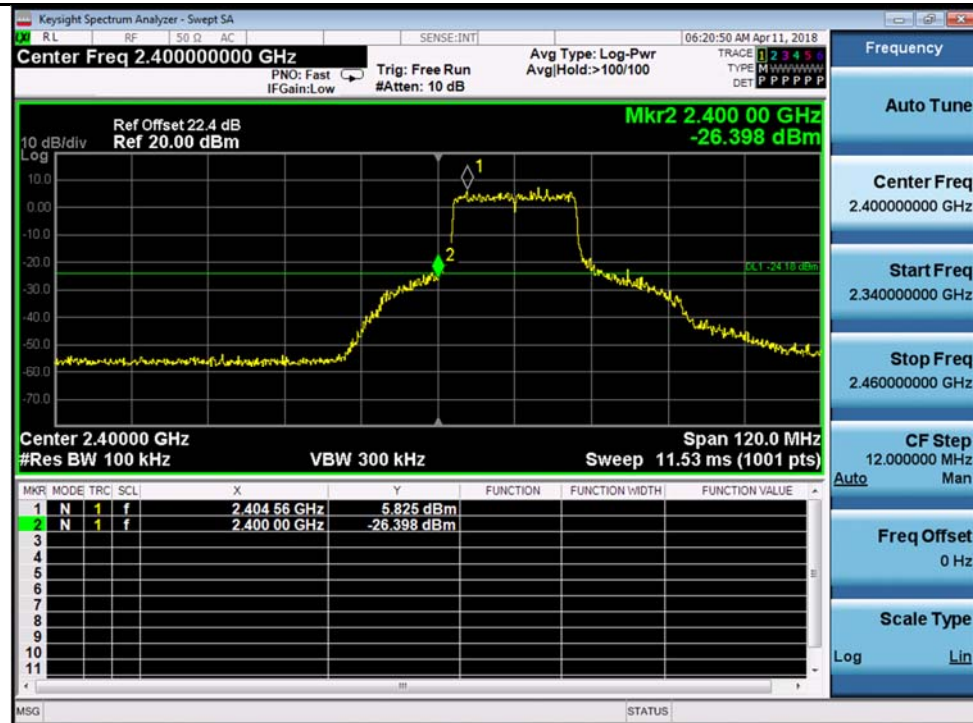
802.11g-2462MHz Chain 2



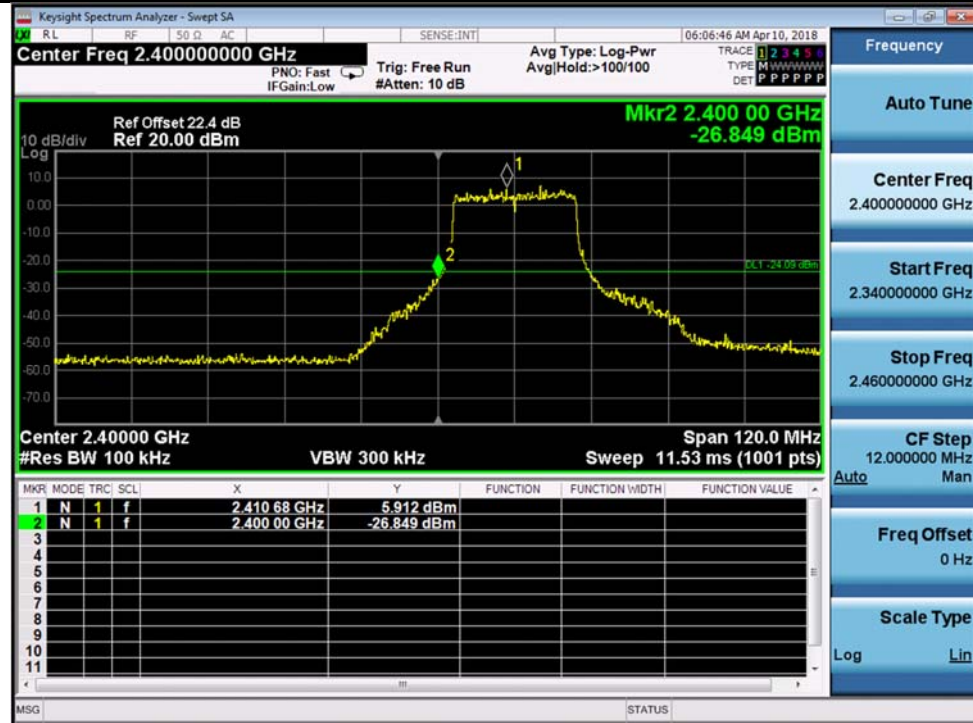
802.11g-2462MHz Chain 3



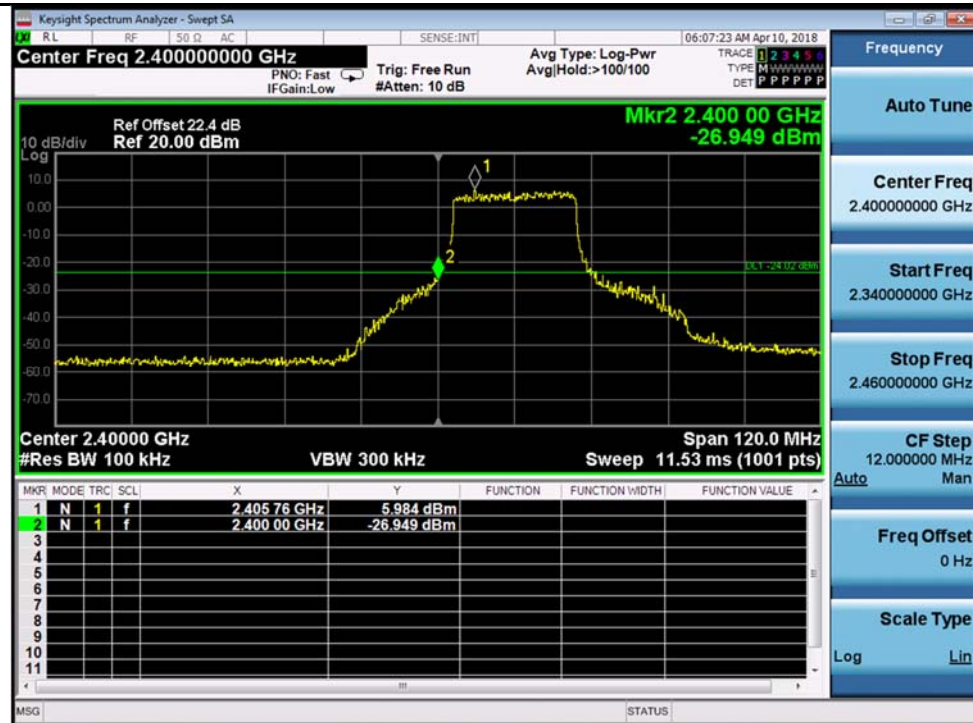
802.11ax20-2412MHz Chain 0



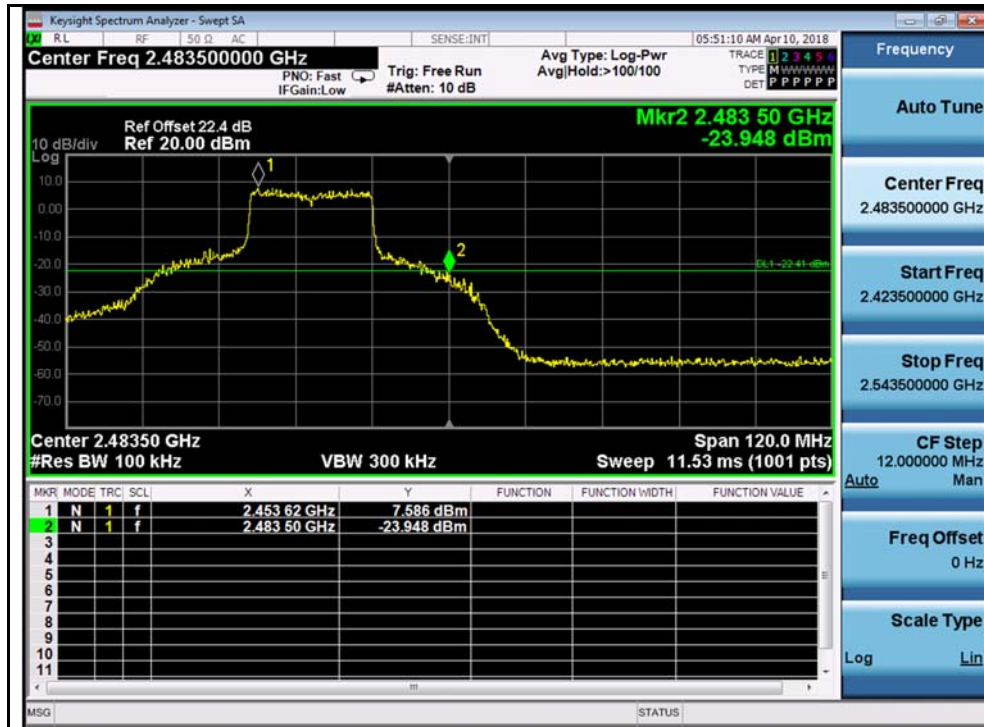
802.11ax20-2412MHz Chain 1



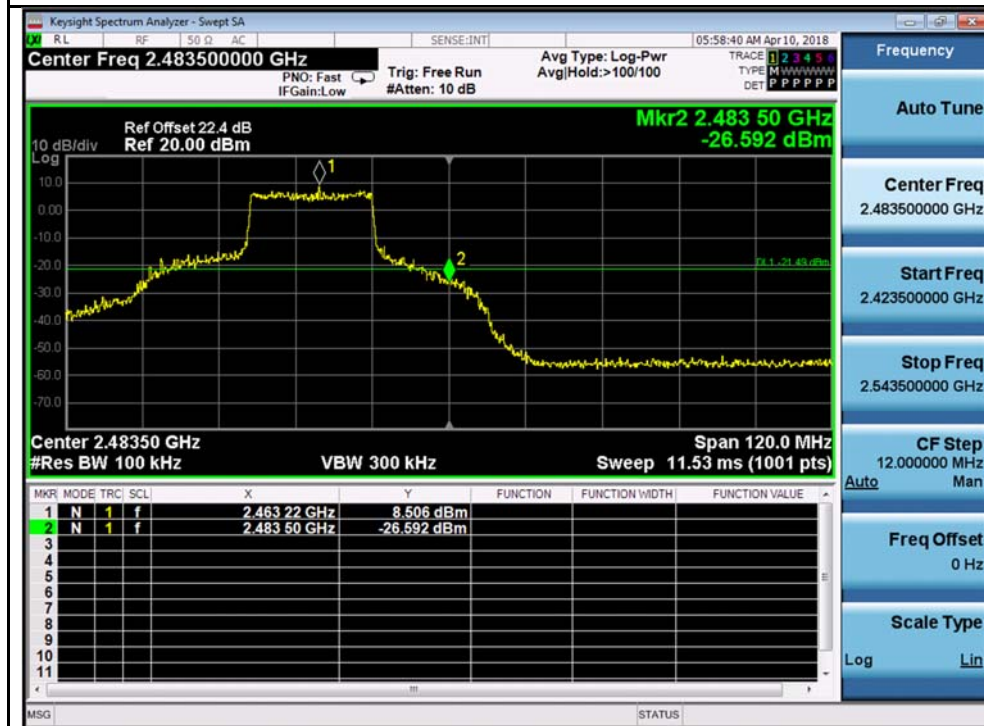
802.11ax20-2412MHz Chain 2



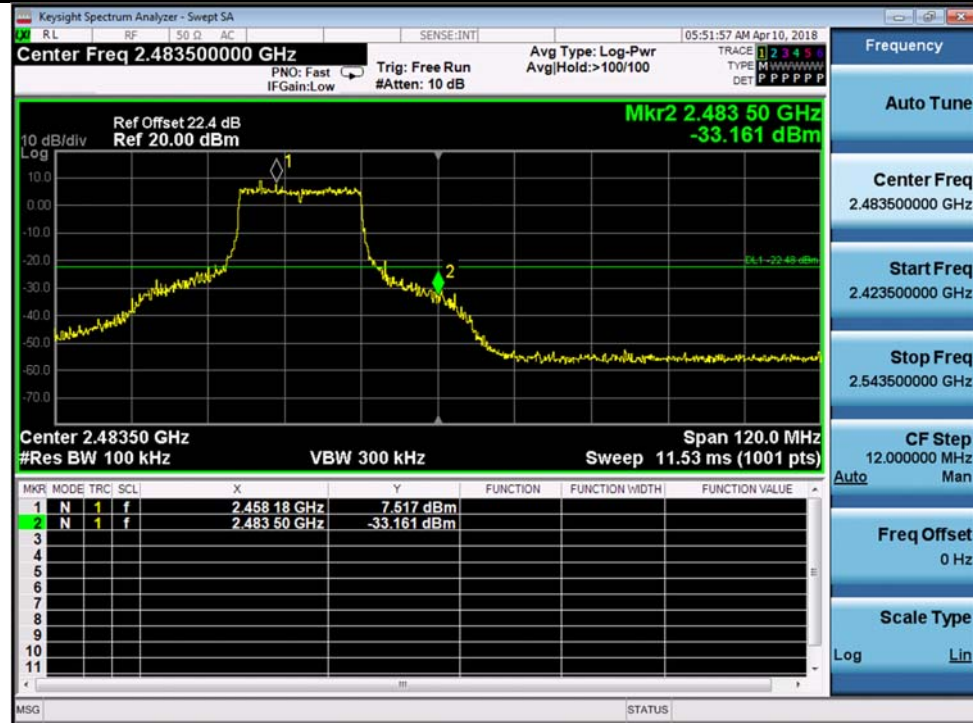
802.11ax20-2412MHz Chain 3



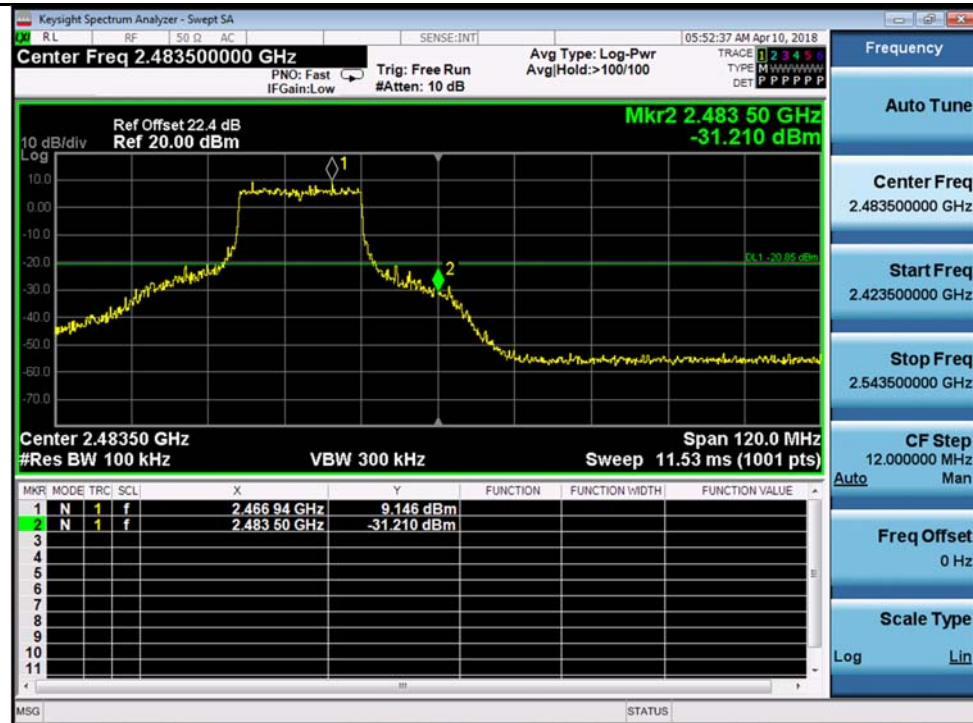
802.11ax20-2462MHz Chain 0



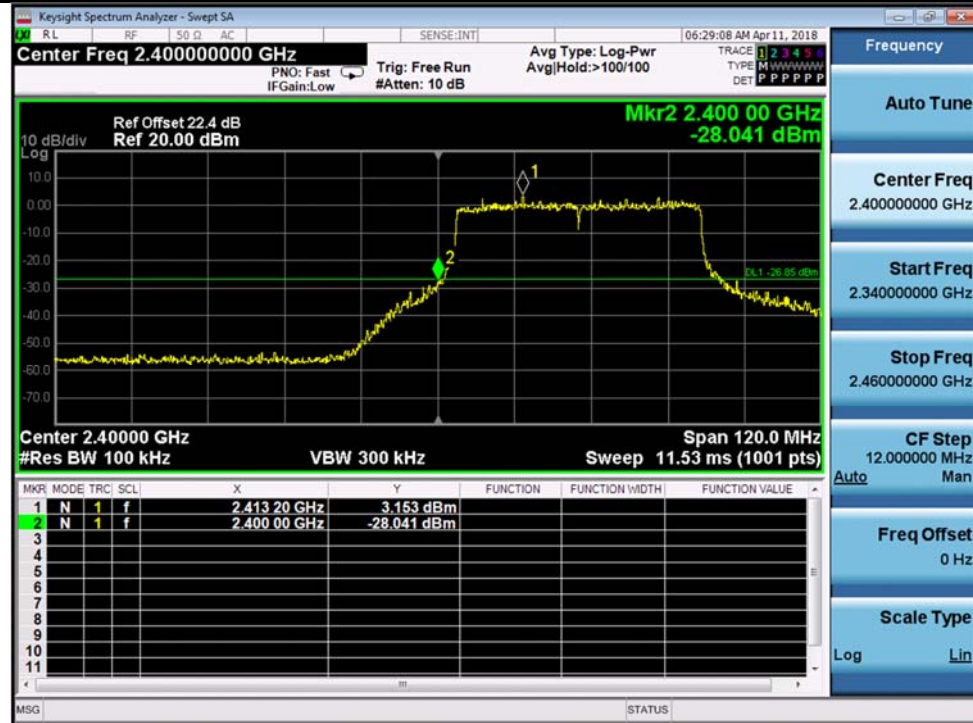
802.11ax20-2462MHz Chain 1



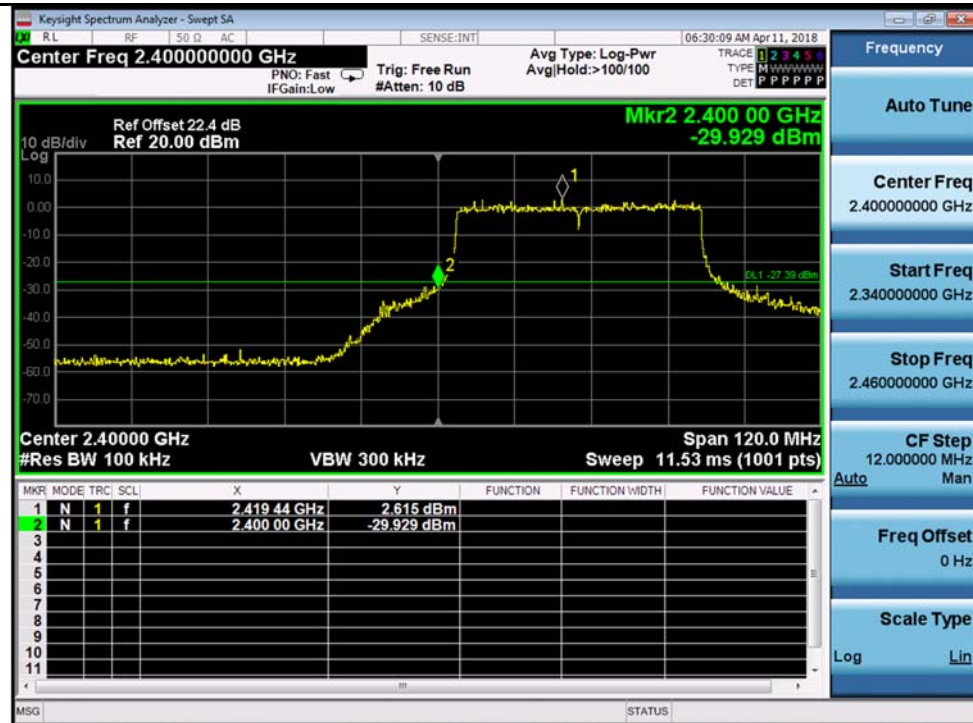
802.11ax20-2462MHz Chain 2



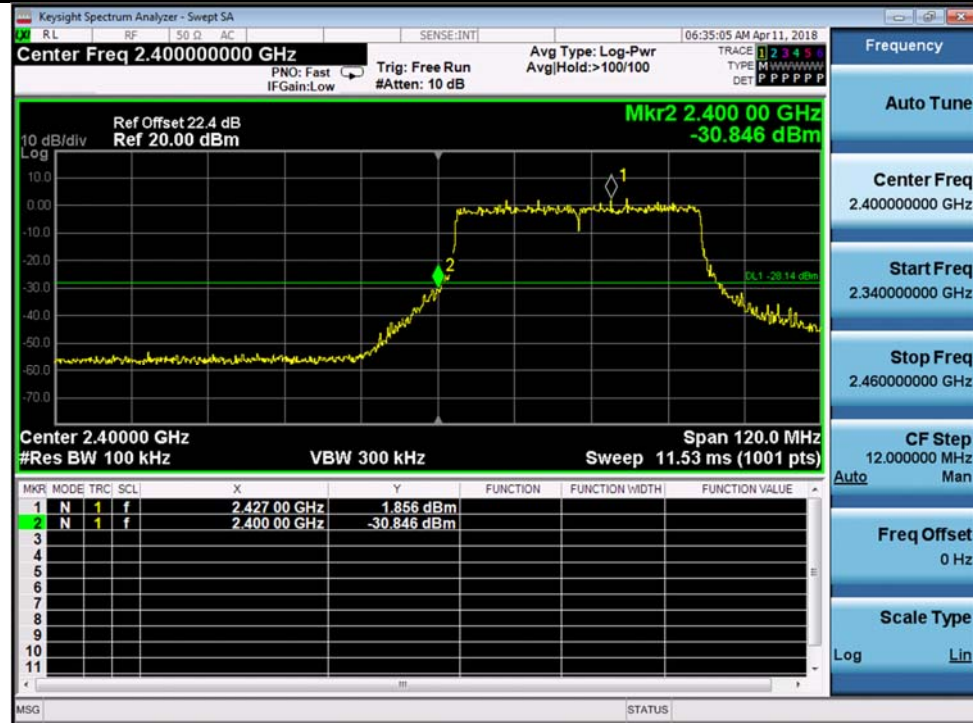
802.11ax20-2462MHz Chain 3



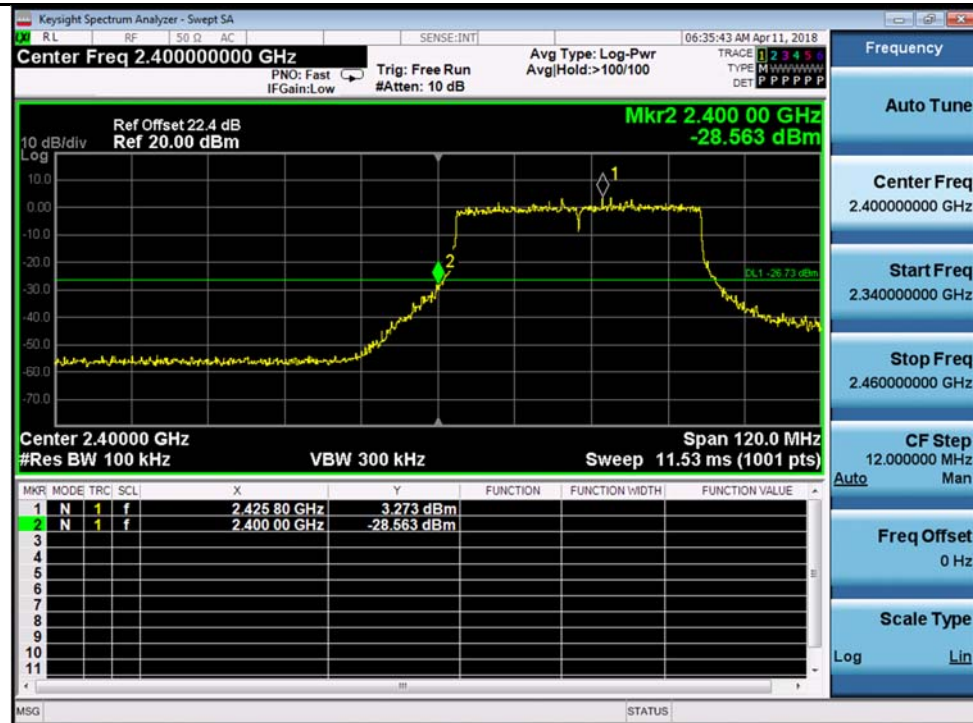
802.11ax40-2422MHz Chain 0



802.11ax40-2422MHz Chain 1



802.11ax40-2422MHz Chain 2



802.11ax40-2422MHz Chain 3



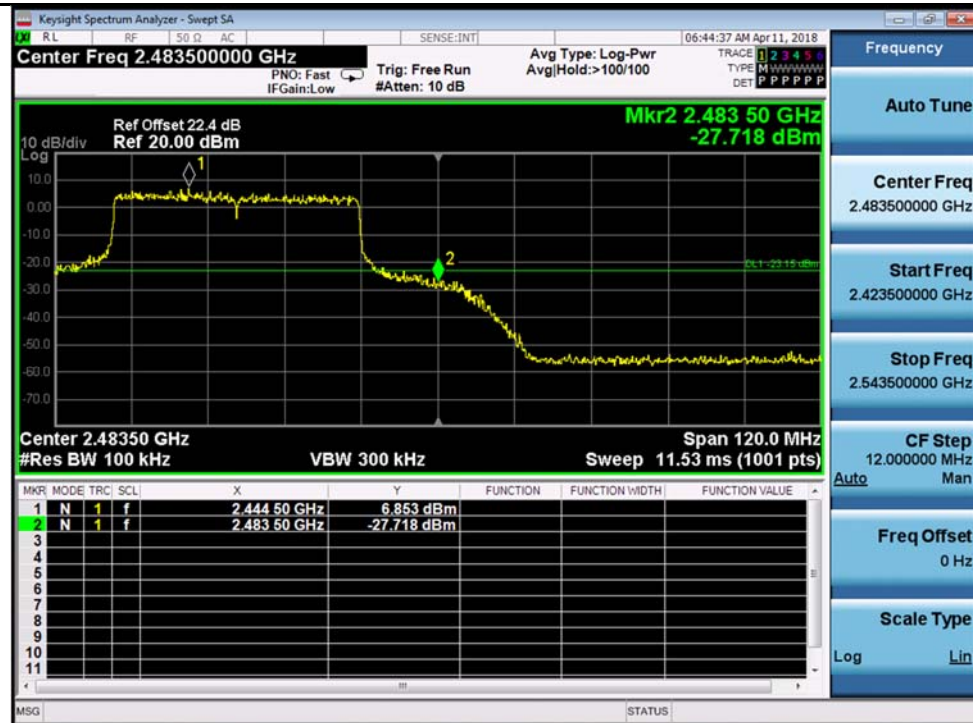
802.11ax40-2452MHz Chain 0



802.11ax40-2452MHz Chain 1



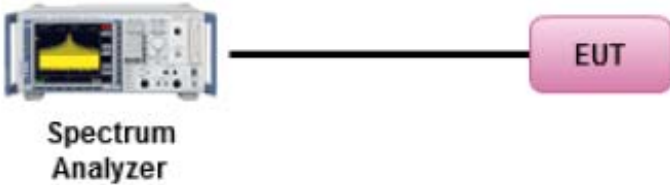
802.11ax40-2452MHz Chain 2



802.11ax40-2452MHz Chain 3

10.6 Peak Spectral Density

Requirement(s):

Spec	Item	Requirement	Applicable
§ 15.247(e) RSS247 (5.2.2)	e)	DSSS: $\leq 8\text{dBm}/3\text{KHz}$	☒
	f)	DSSS in hybrid sys with FH turned off: $\leq 8\text{dBm}/3\text{KHz}$	☐
Test Setup			
Test Procedure	558074 D01 DTS Meas Guidance v04, 10.2 Method PKPSD (peak PSD) <u>Peak spectral density measurement procedure</u> - Set analyzer center frequency to DTS channel center frequency. - Set the span to 1.5 times the DTS bandwidth. - Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$. - Set the VBW $\geq 3 \times \text{RBW}$. - Detector = Peak - Sweep time = auto couple. - Trace mode = Max Hold - Allow trace to fully stabilize. - Use the peak marker function to determine the maximum amplitude level within the RBW. - If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.		
Test Date	05/17/2018 – 06/20/2018	Environmental condition	Temperature 22°C Relative Humidity 46% Atmospheric Pressure 1020mbar
Remark	Per KDB 662911 D01 Multiple Transmitter Output v02r01, the direction gain for horizontal polarization and vertical polarization is calculated separately. For 2.4GHz band, peak antenna gain = 2.5 dBi, directional gain = 5.5 dB. Highest of total directional gain is 5.5 dBi. The power limit and PSD limit will be reduced by amount of 0 dB.		
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

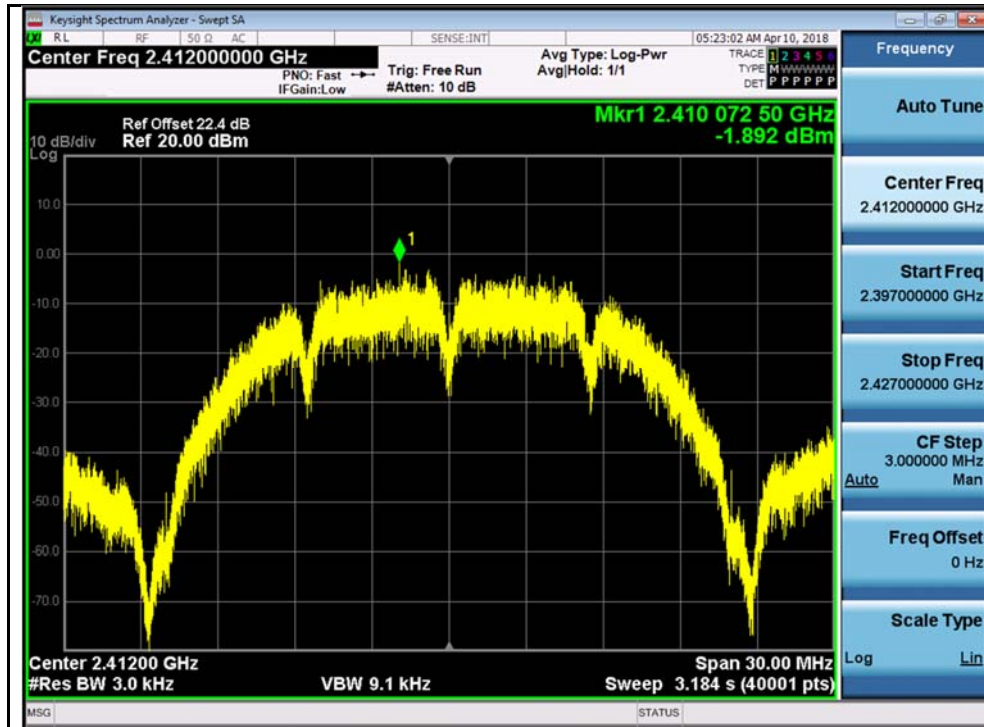
Test Plot ☒ Yes (See below) ☐ N/A

Test was done by Chen Ge at RF test site.

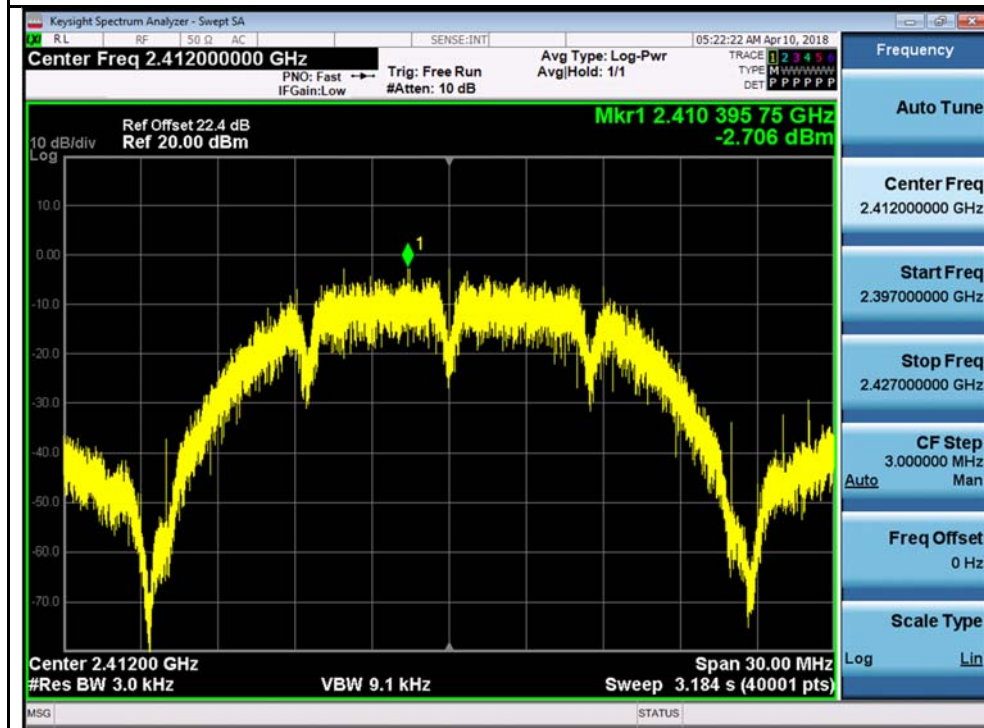
PSD measurement results

Type	Test mode	Freq (MHz)	CH	Conducted PSD (dBm/3KHz)					Limit (dBm/3KHz)	Result
				Chain1	Chain2	Chain3	Chain4	Total		
PSD	802.11b	2412	Low	-1.89	-2.71	-1.61	-3.19	3.72	≤8	Pass
		2437	Mid	-2.34	-2.57	8.28	-1.80	9.31	≤8	Pass
		2462	High	0.70	-1.05	-1.63	-1.81	5.19	≤8	Pass
	802.11g	2412	Low	-8.56	-7.79	-7.69	-8.38	-2.07	≤8	Pass
		2437	Mid	-4.00	-4.83	-4.10	-3.23	2.02	≤8	Pass
		2462	High	-5.87	-6.76	-6.47	-5.98	-0.23	≤8	Pass
	802.11n-20M	2412	Low	-7.25	-7.36	-8.50	-5.64	-1.04	≤8	Pass
		2437	Mid	-3.92	-3.08	-3.76	3.03	5.22	≤8	Pass
		2462	High	-5.88	3.98	-4.51	-5.08	5.35	≤8	Pass
	802.11n-40M	2422	Low	-10.50	5.37	-14.44	4.12	7.89	≤8	Pass
		2437	Mid	-11.60	-12.24	-11.95	-11.19	-5.70	≤8	Pass
		2452	High	-7.16	4.26	-0.78	-5.80	5.97	≤8	Pass

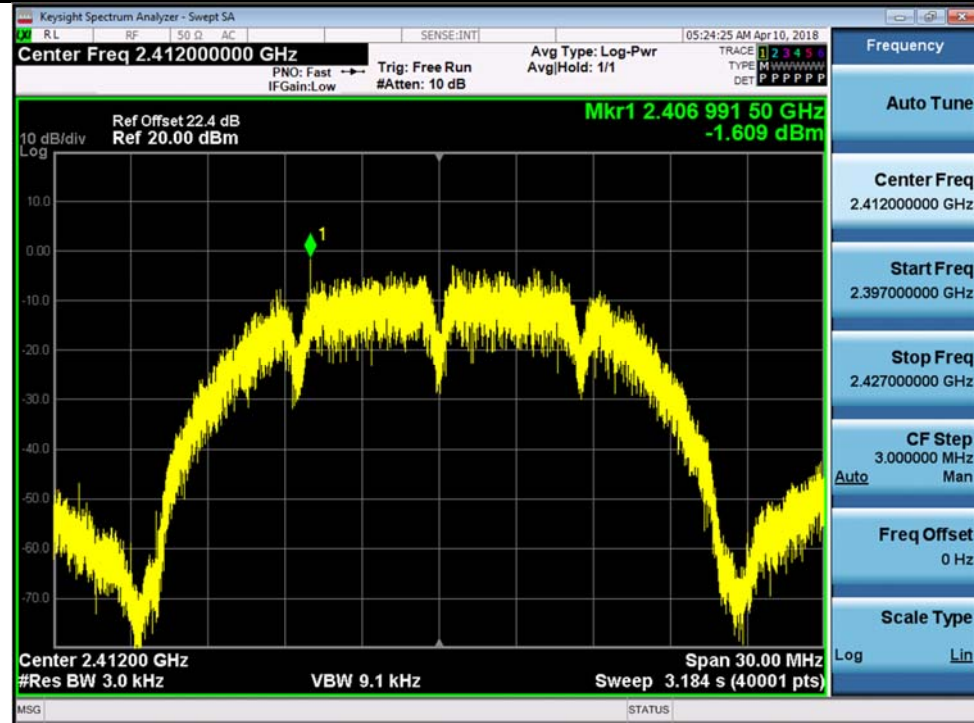
Test Plots:



802.11b-2412MHz Chain 0



802.11b-2412MHz Chain 1



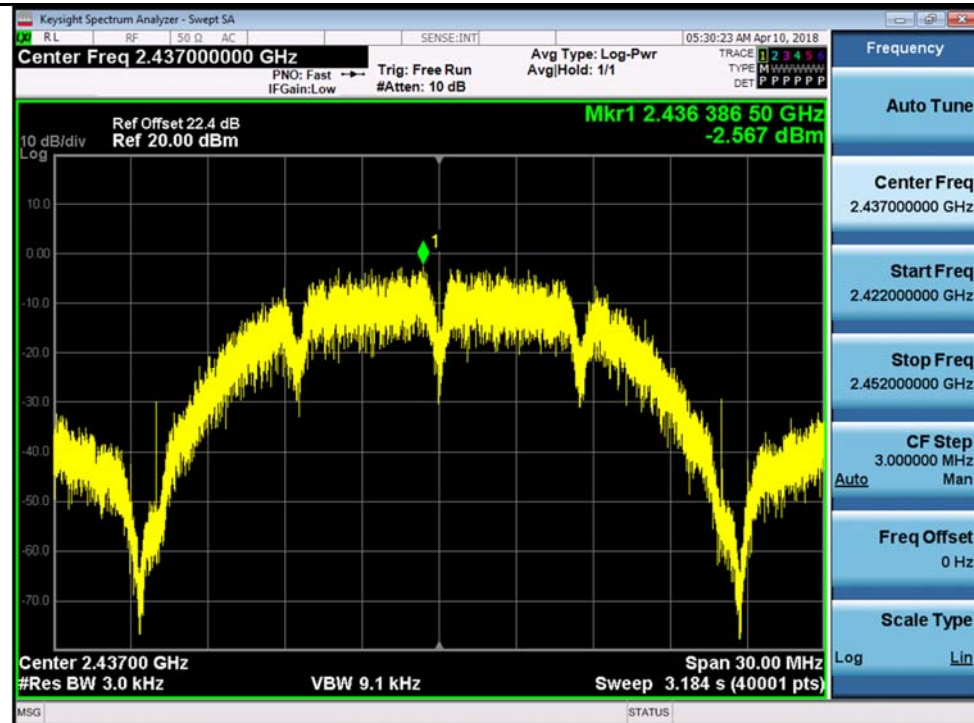
802.11b-2412MHz Chain 2



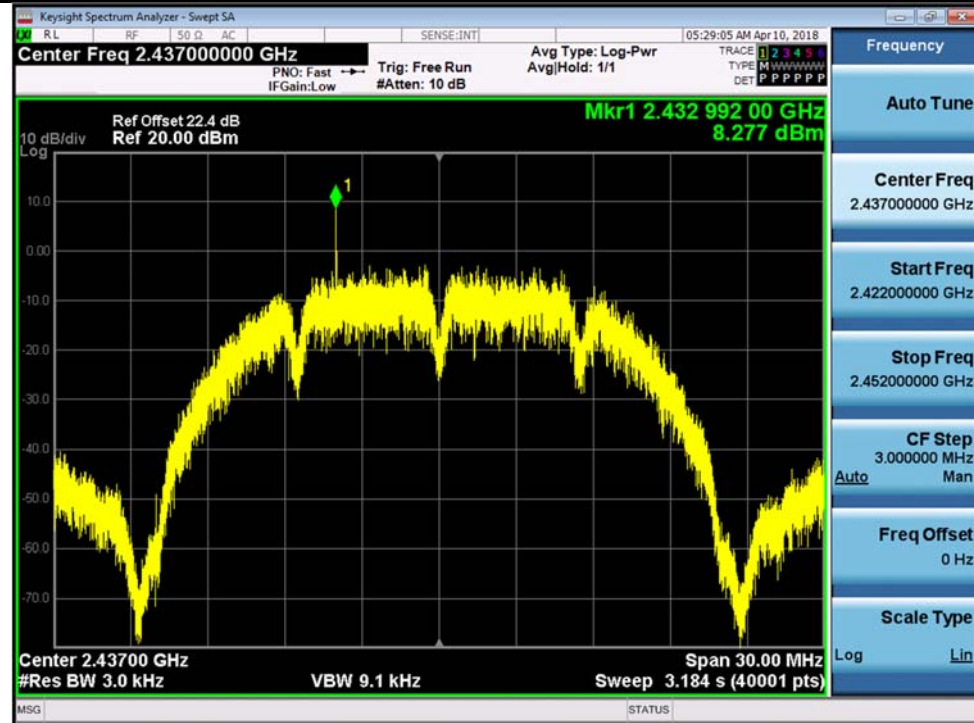
802.11b-2412MHz Chain 3



802.11b-2437MHz Chain 0



802.11b-2437MHz Chain 1



802.11b-2437MHz Chain 2



802.11b-2437MHz Chain 3



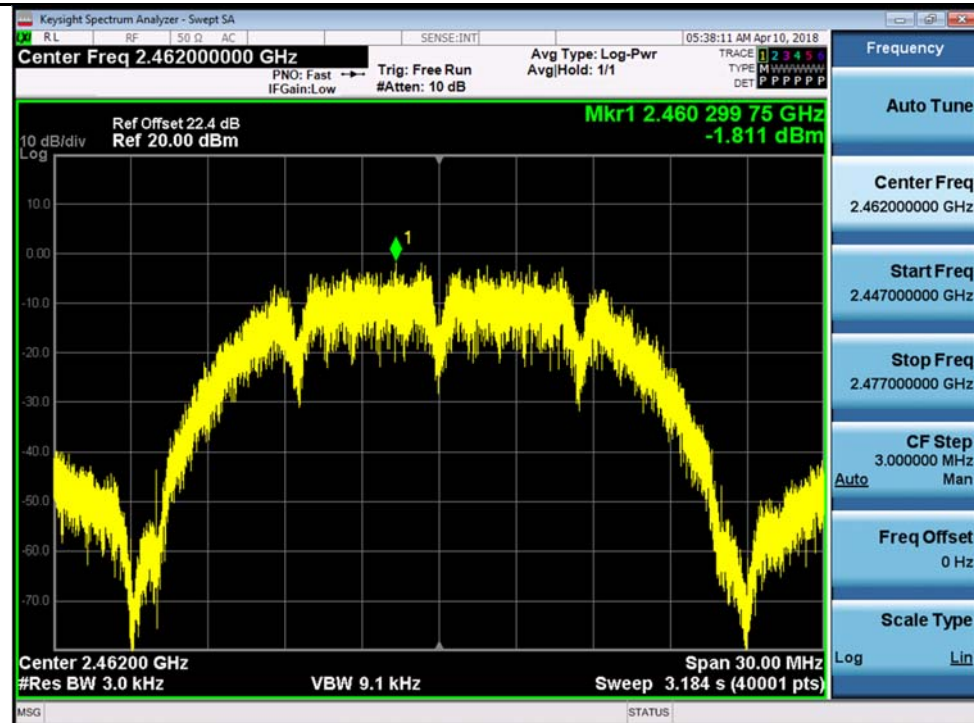
802.11b-2462MHz Chain 0



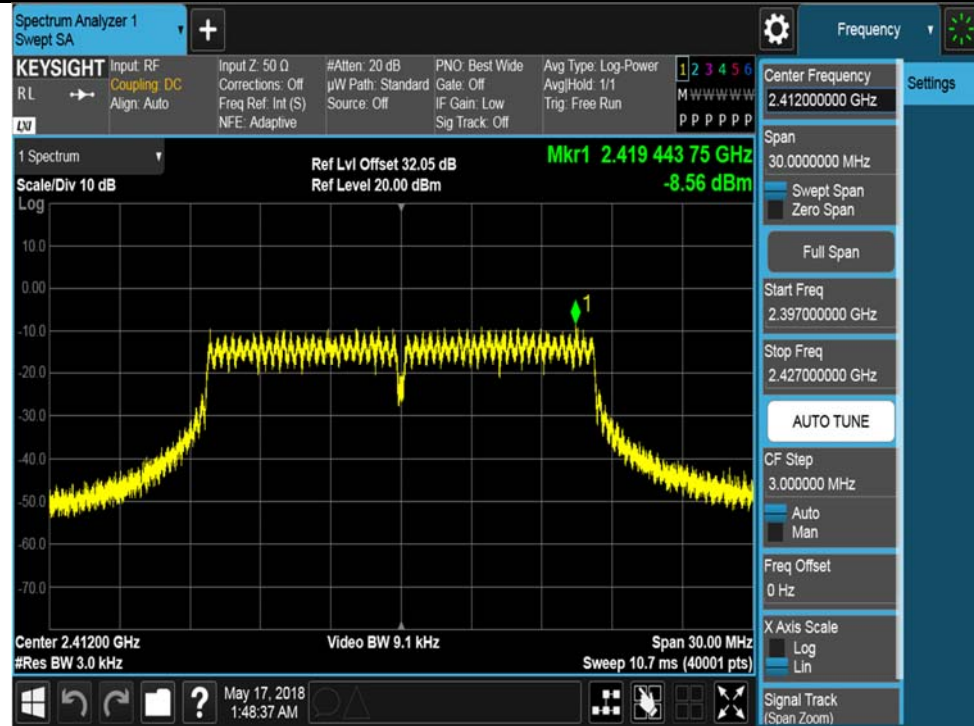
802.11b-2462MHz Chain 1



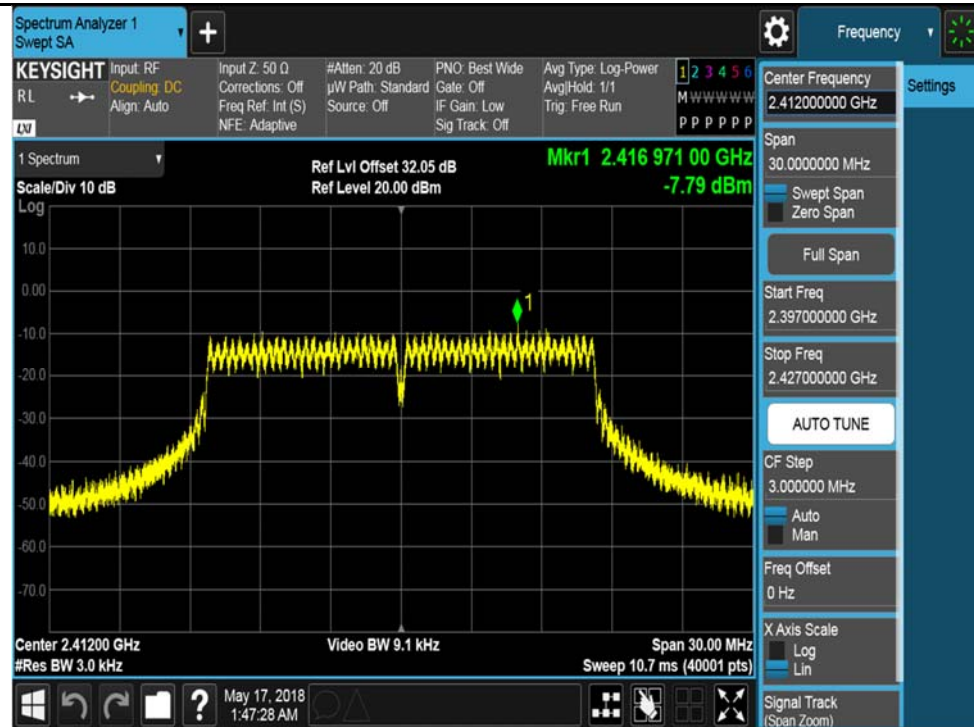
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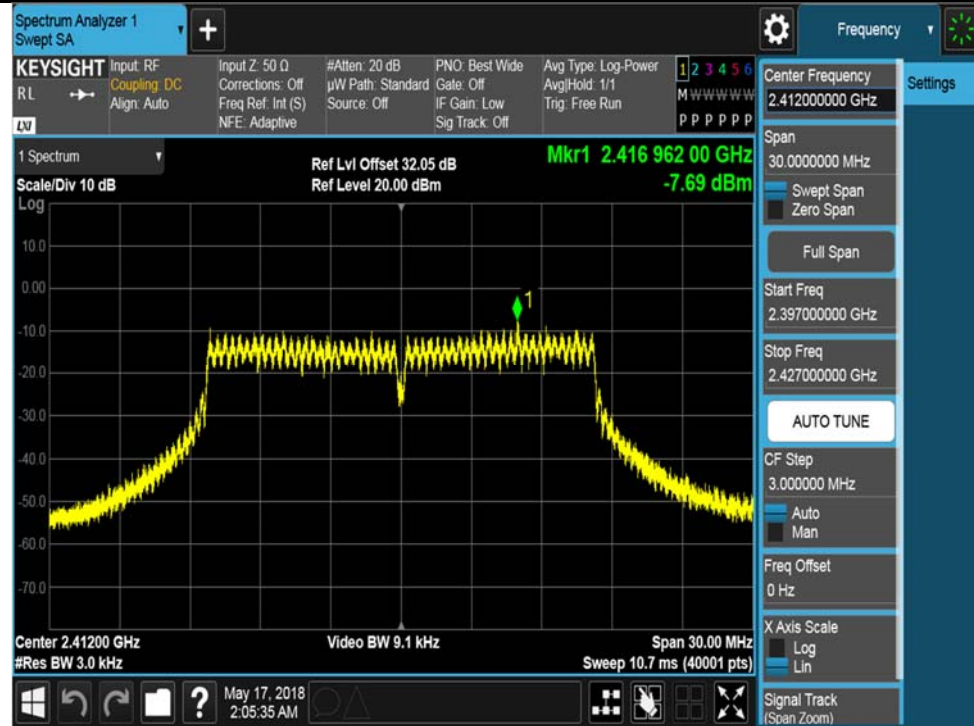
802.11b-2462MHz Chain 3



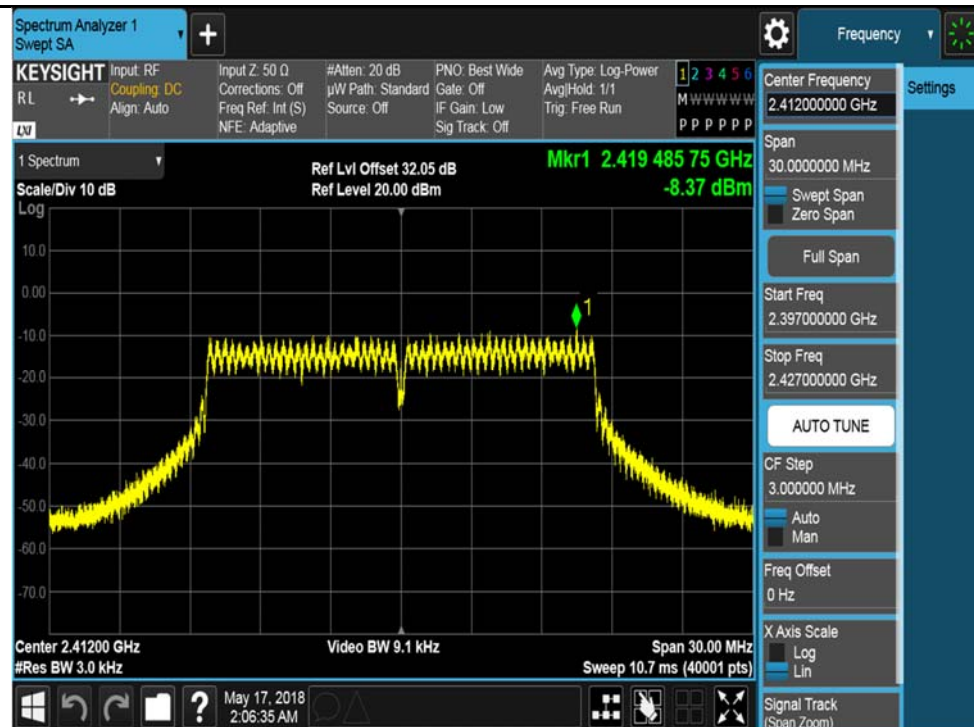
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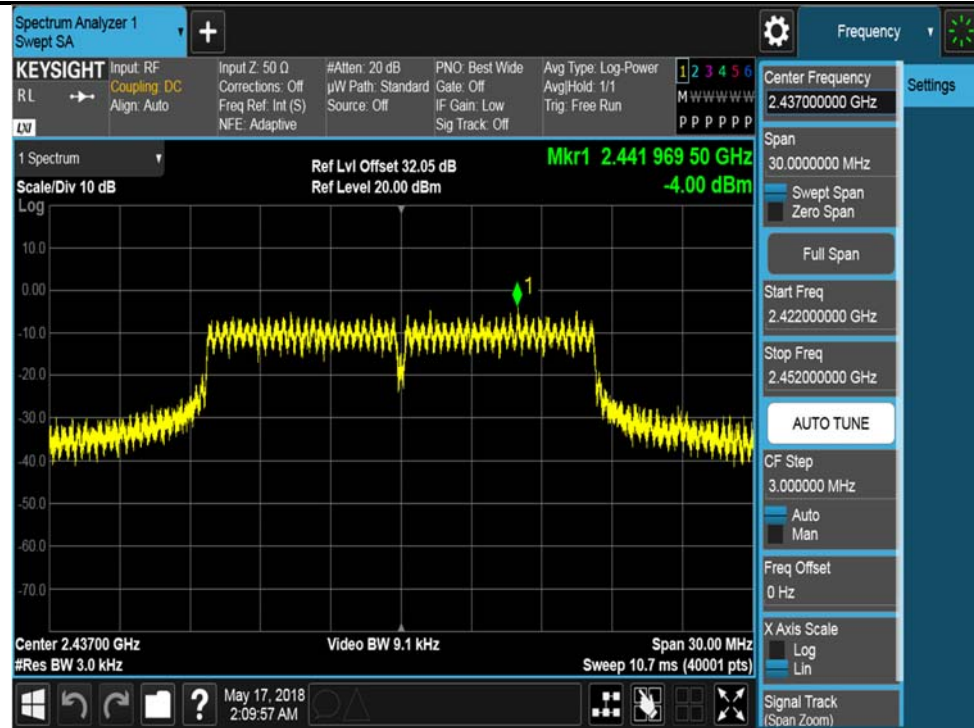
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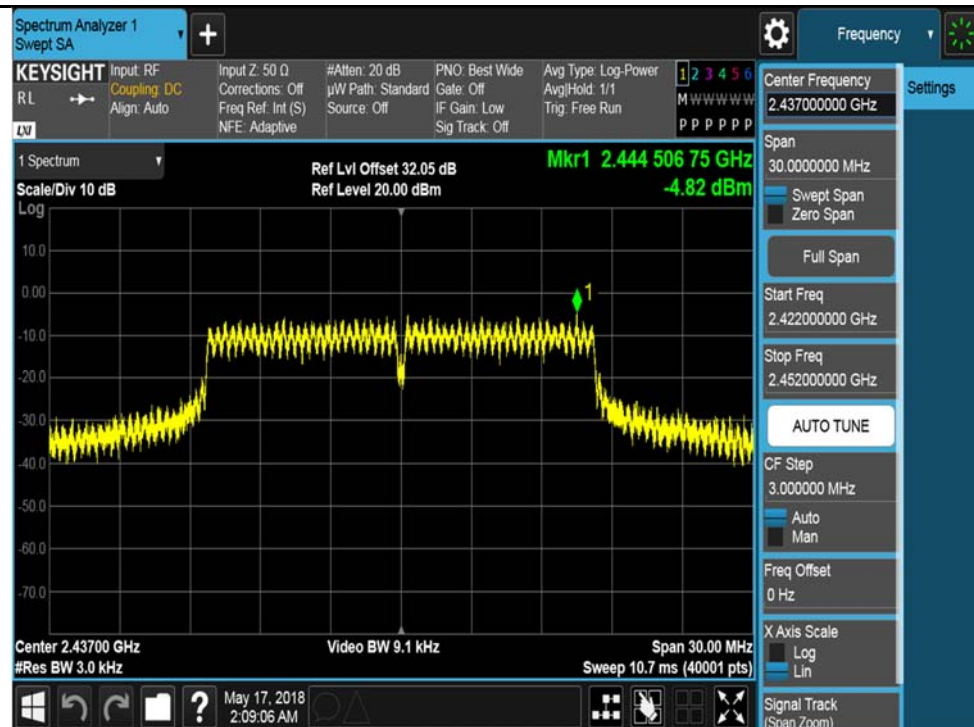
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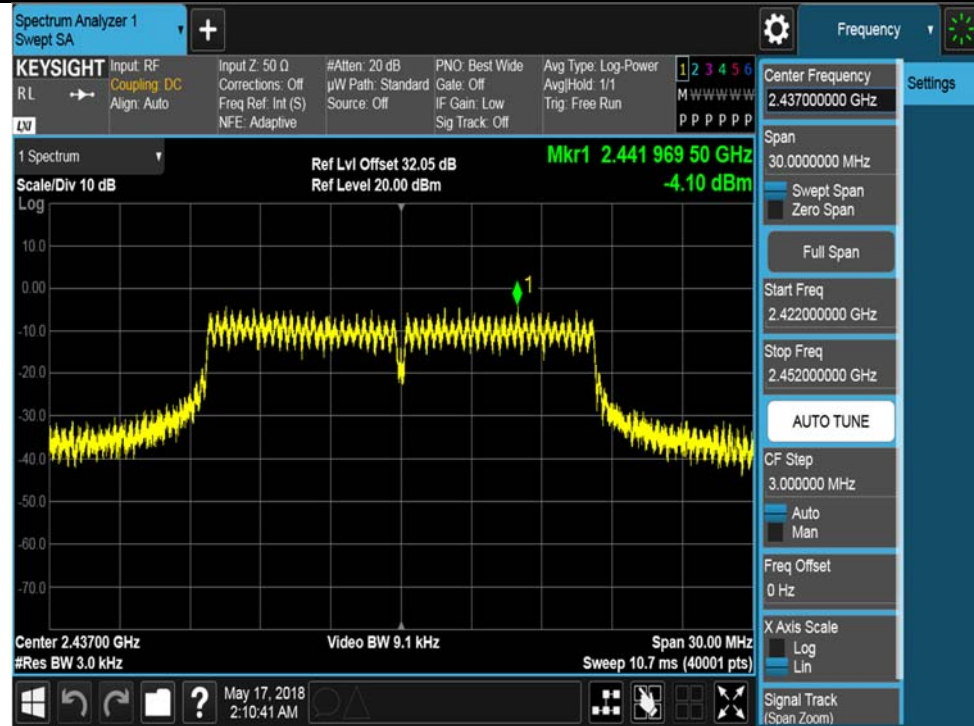
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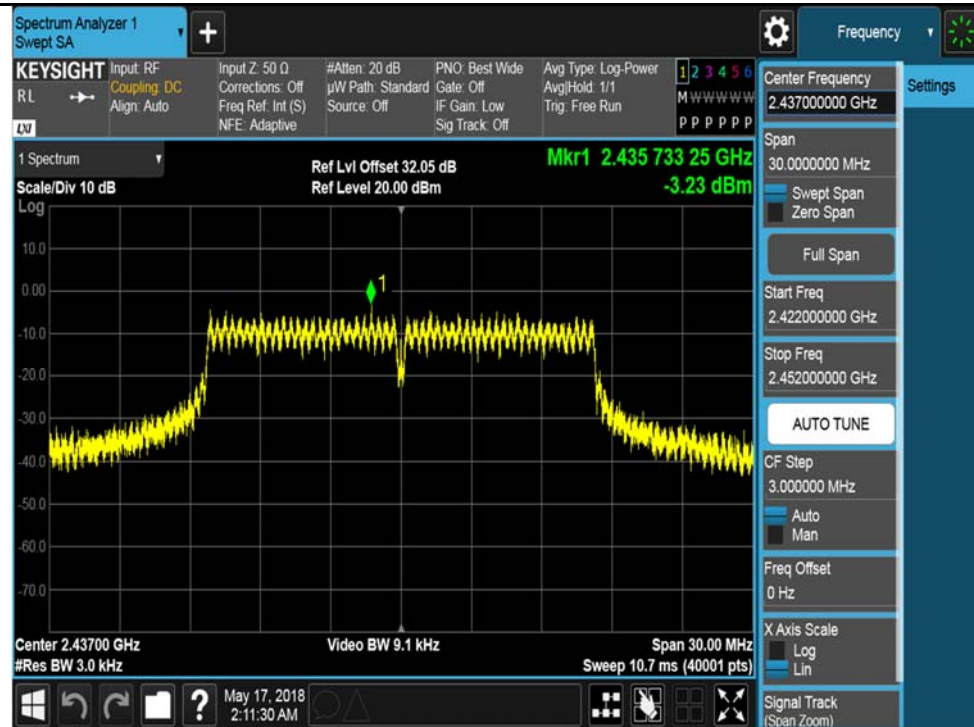
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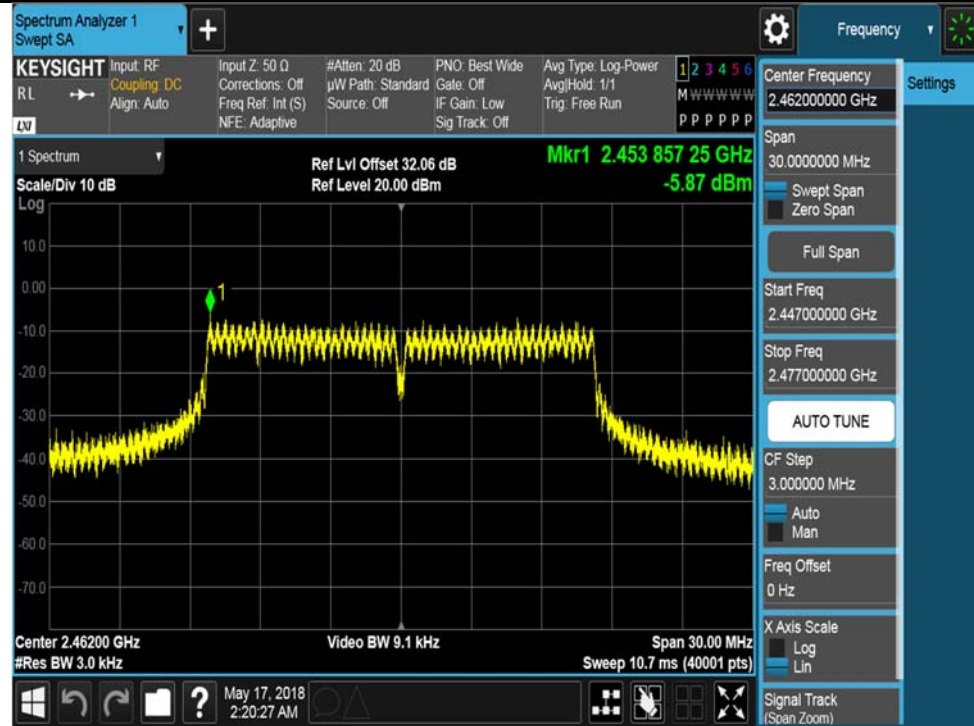
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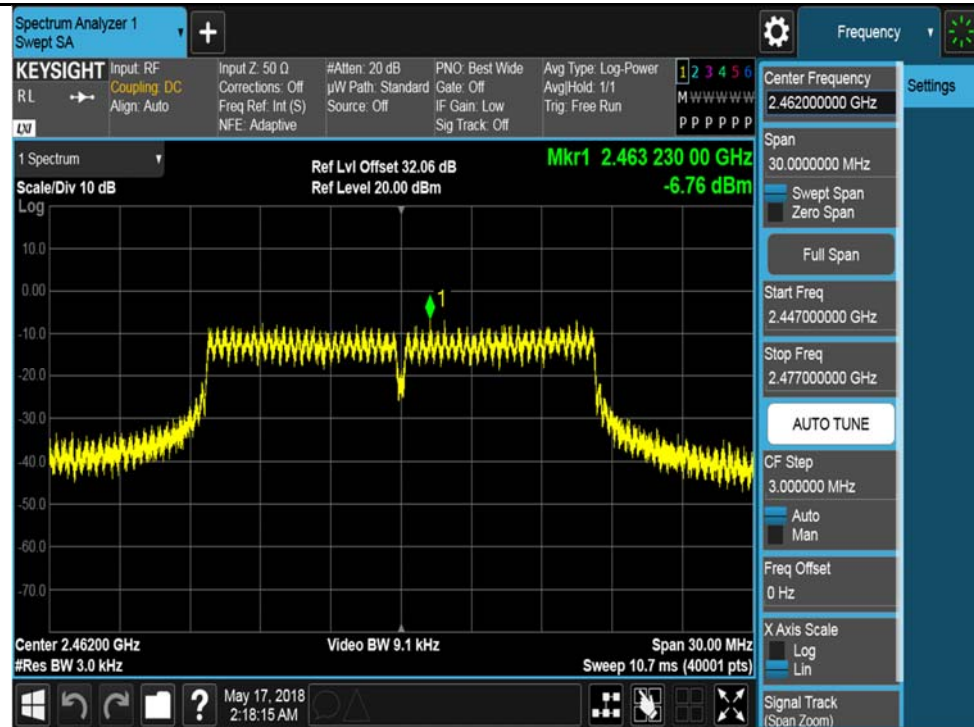
802.11g-2437MHz Chain 2



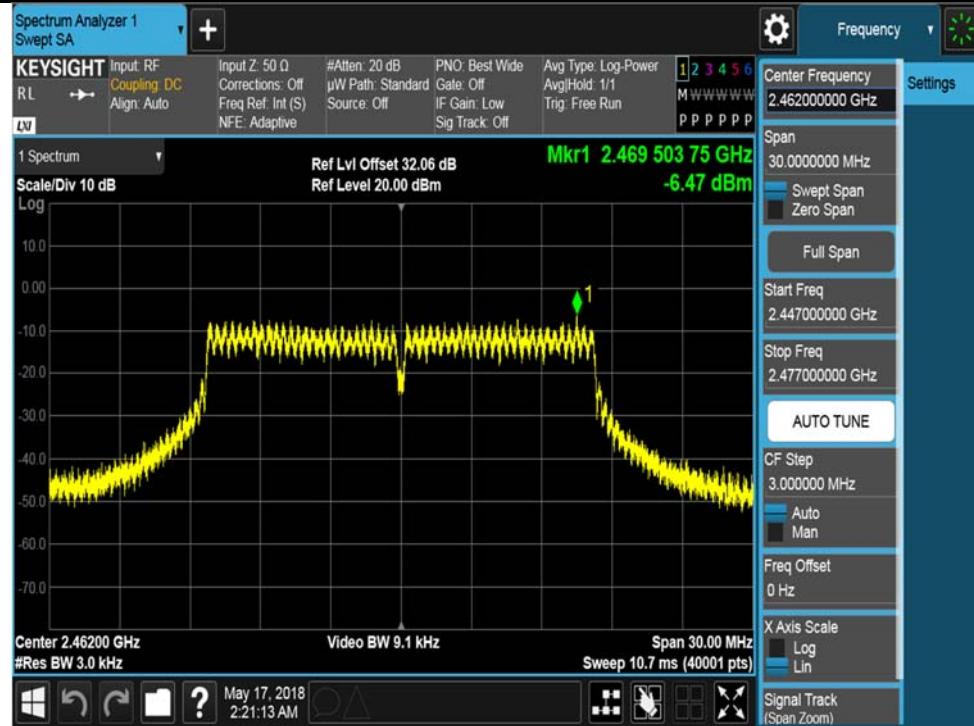
802.11g-2437MHz Chain 3



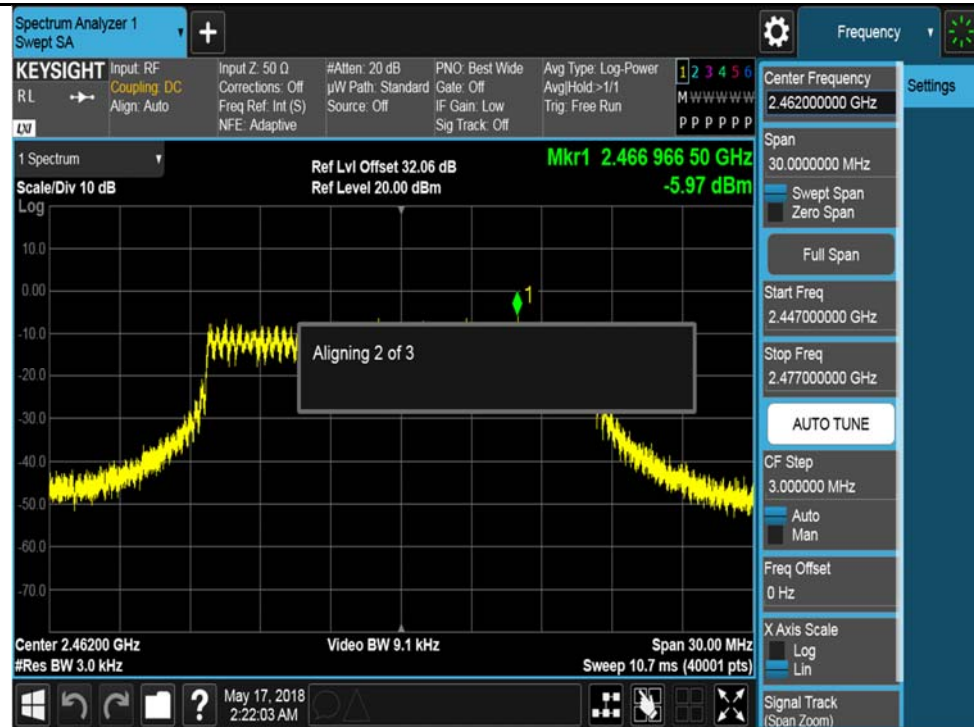
802.11g-2462MHz Chain 0



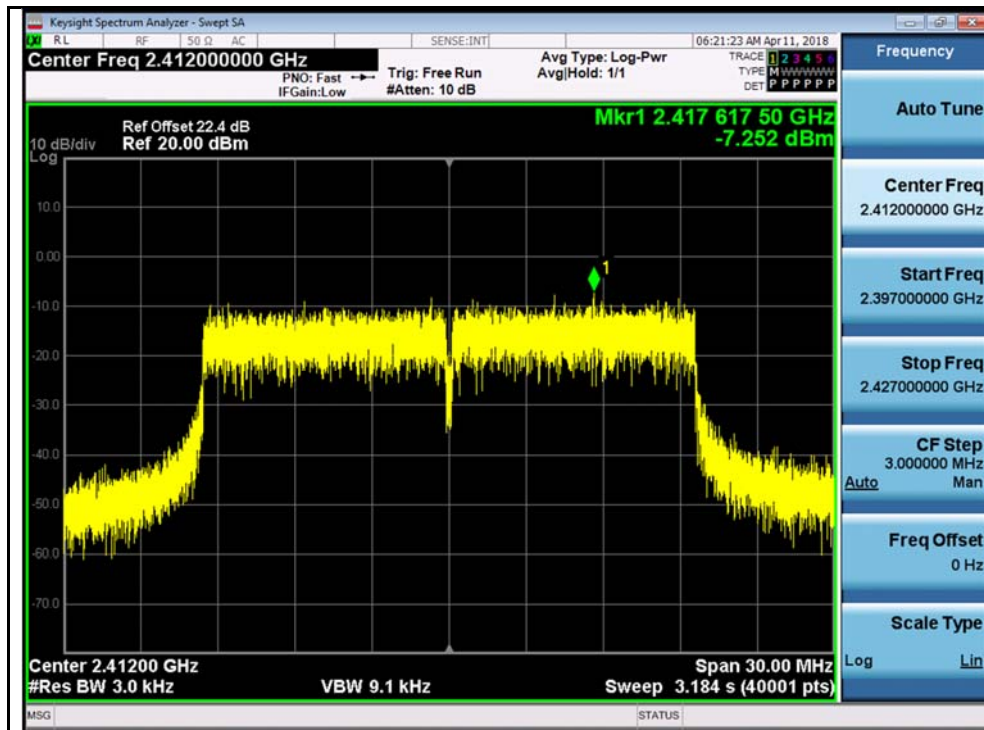
802.11g-2462MHz Chain 1



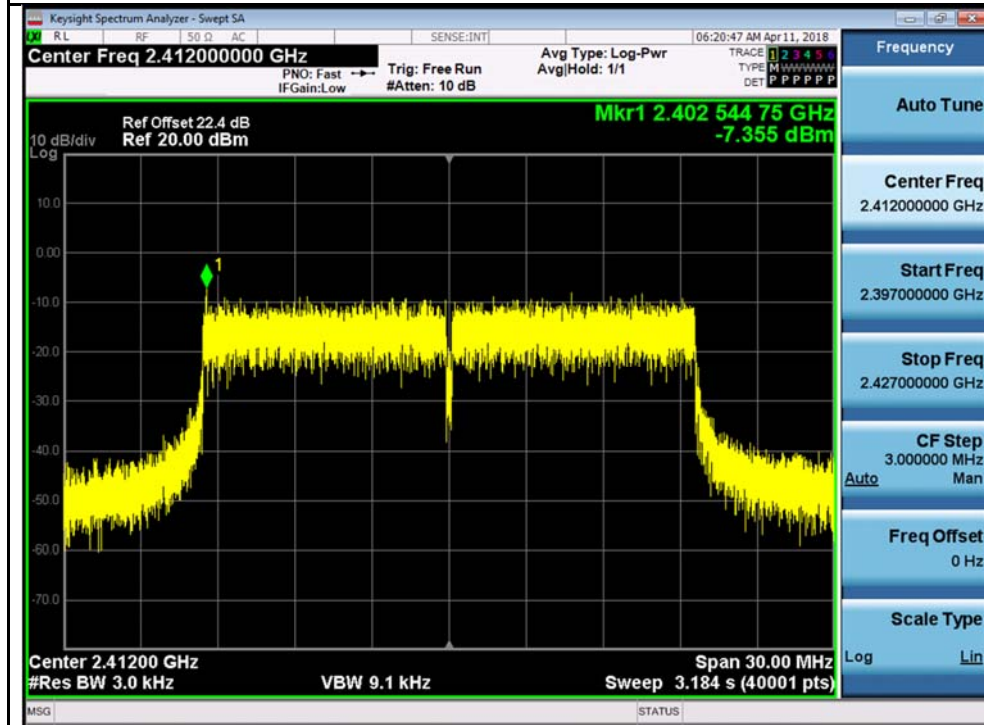
802.11g-2462MHz Chain 2



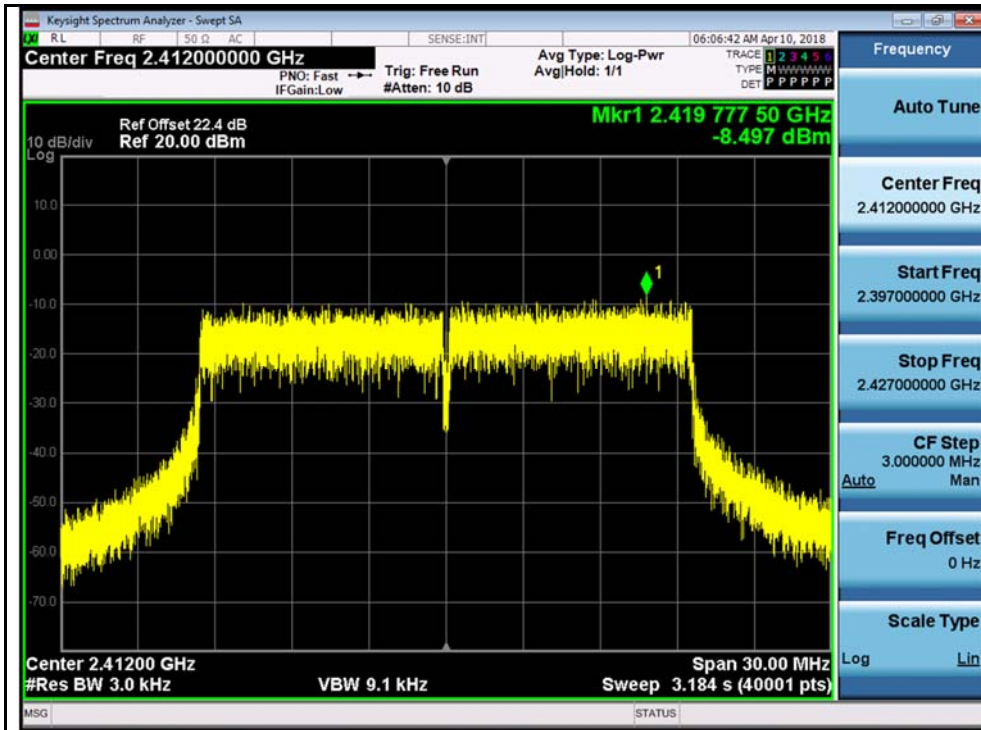
802.11g-2462MHz Chain 3



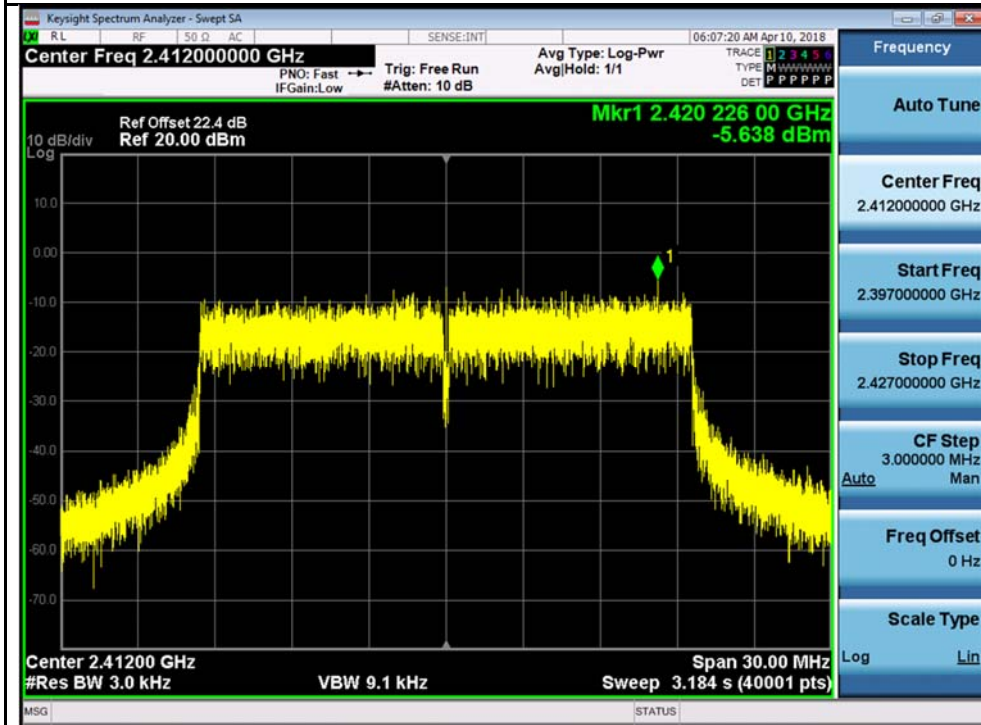
802.11ax20 2412MHz Chain 0



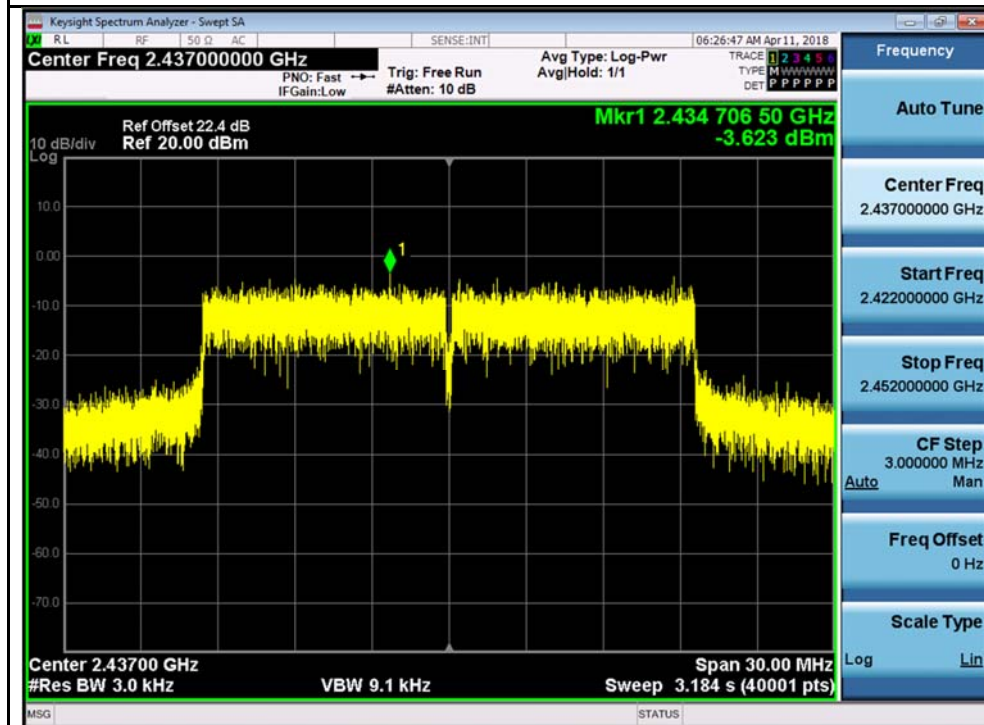
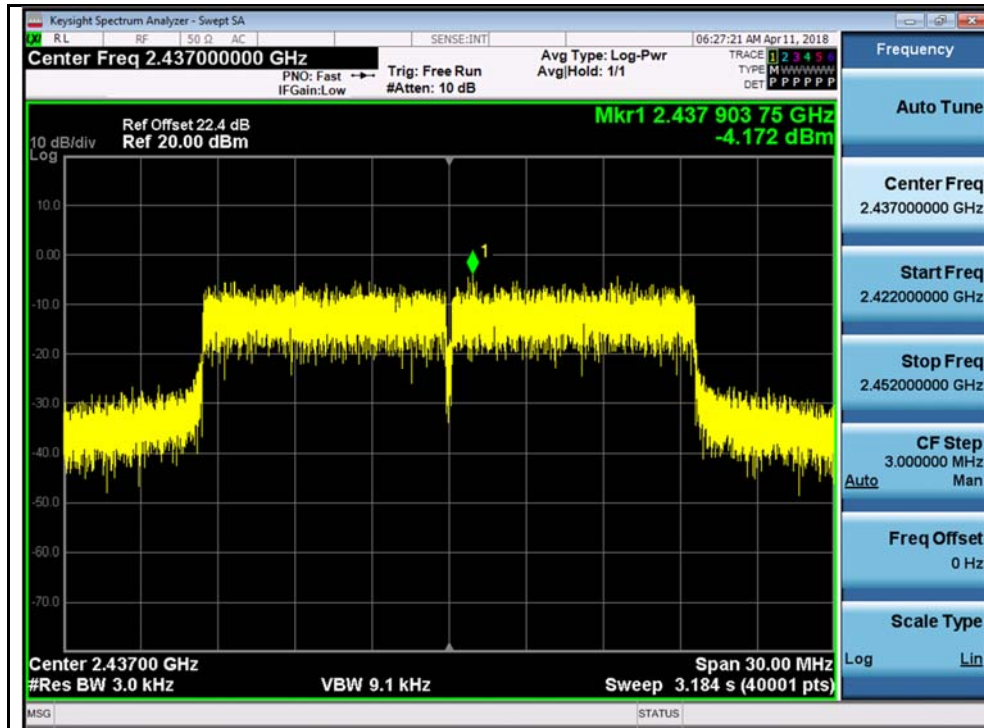
802.11ax20 2412MHz Chain 1

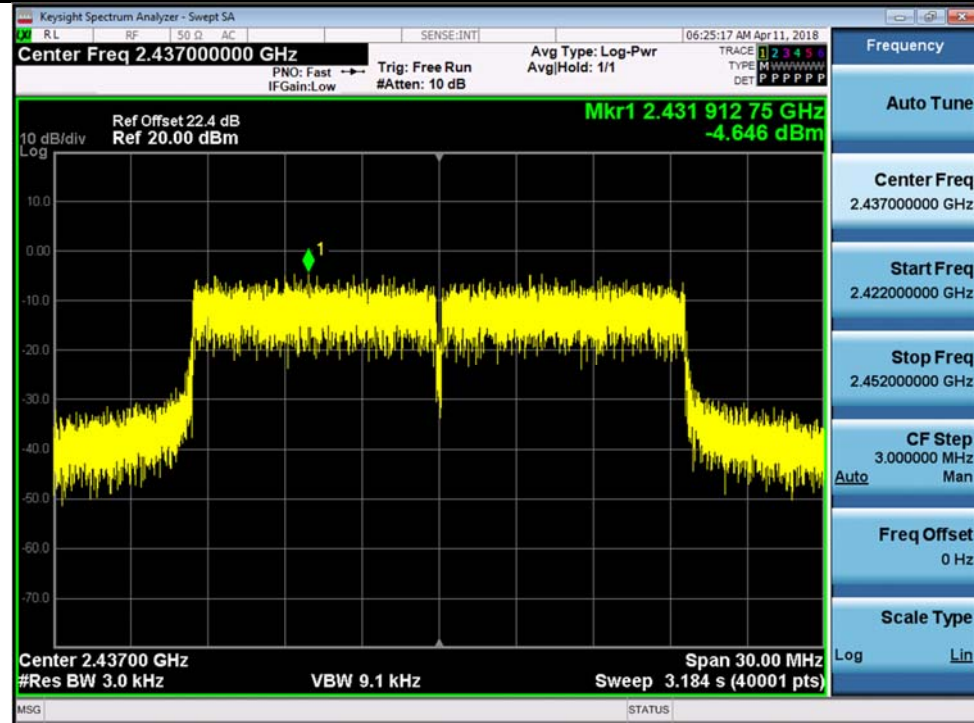


802.11ax20 2412MHz Chain 2

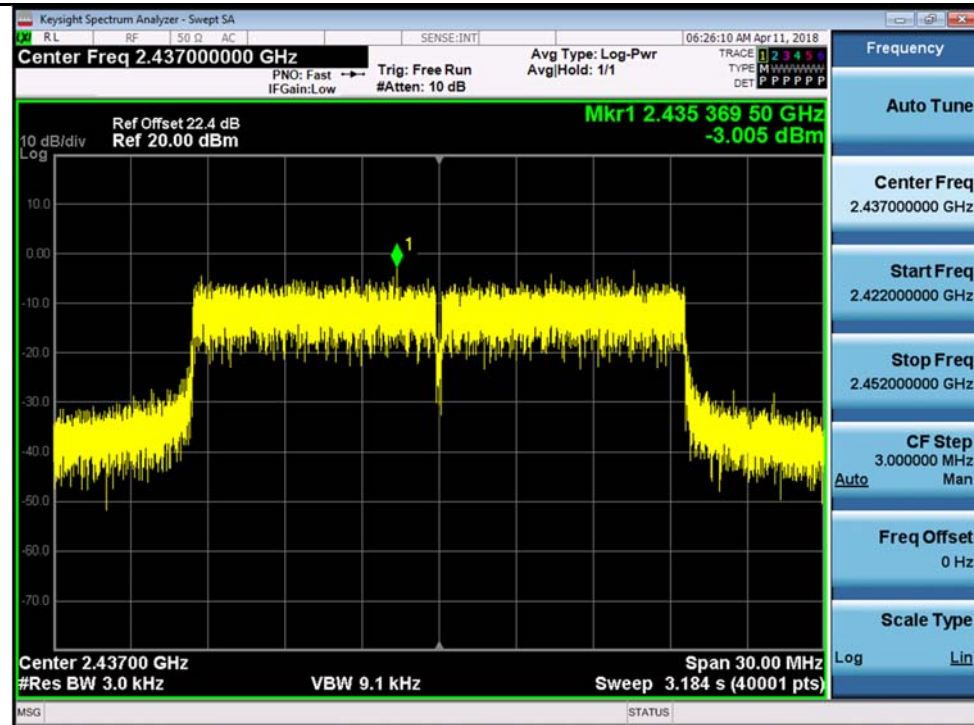


802.11ax20 2412MHz Chain 3

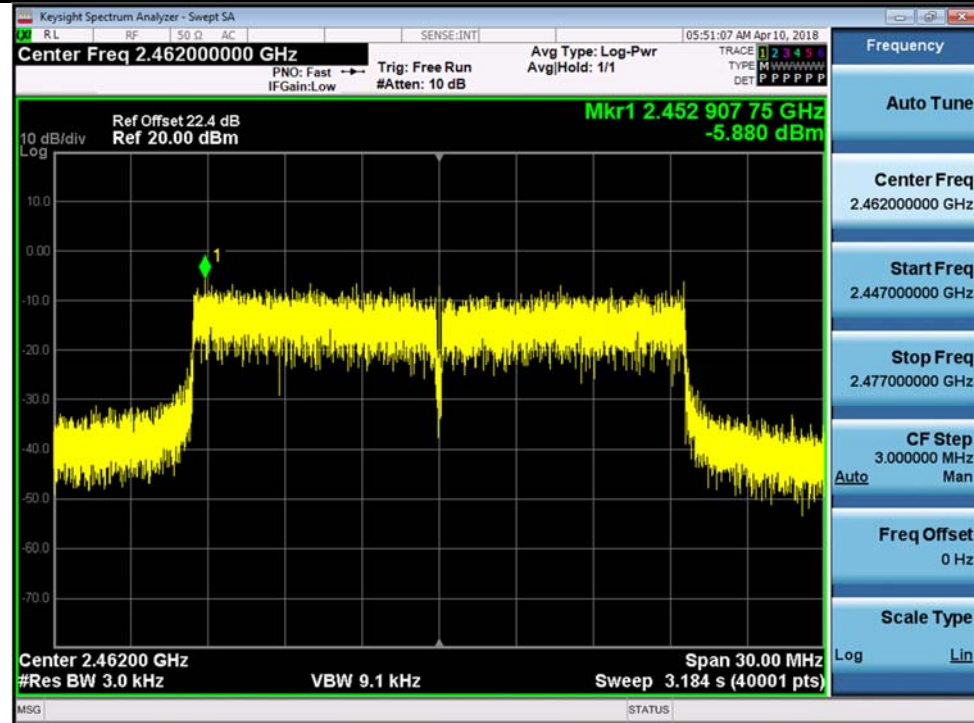




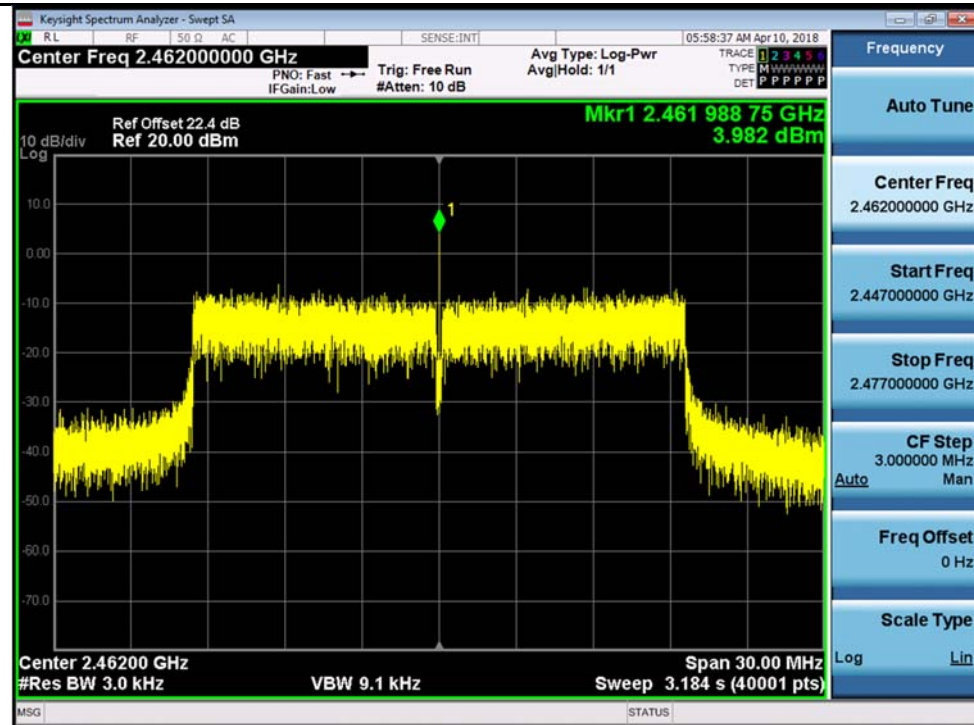
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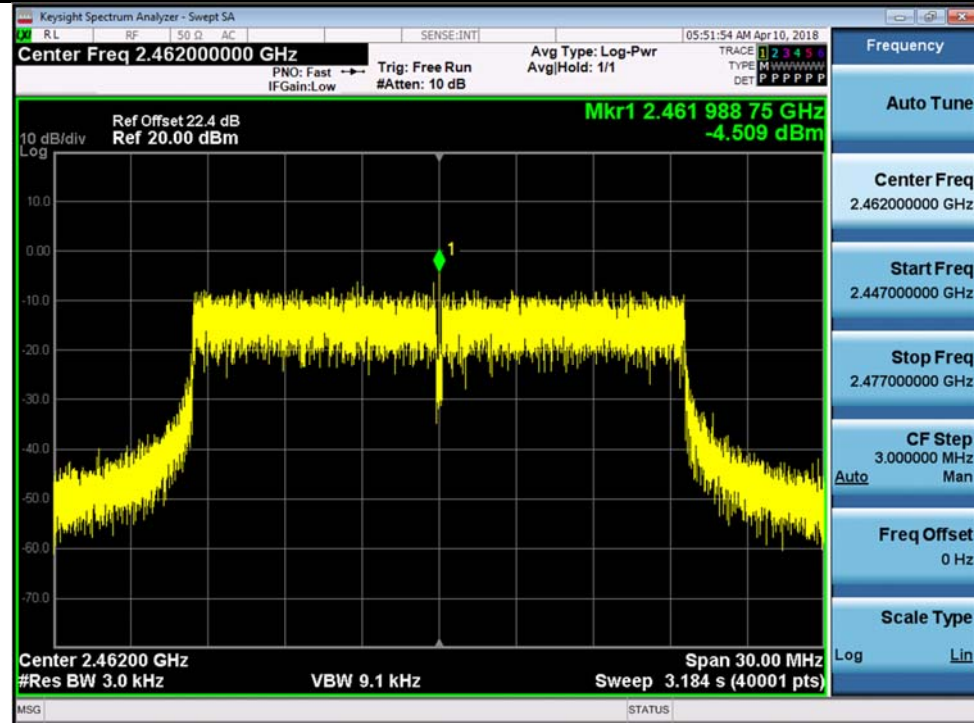
802.11ax20 2437MHz Chain 3



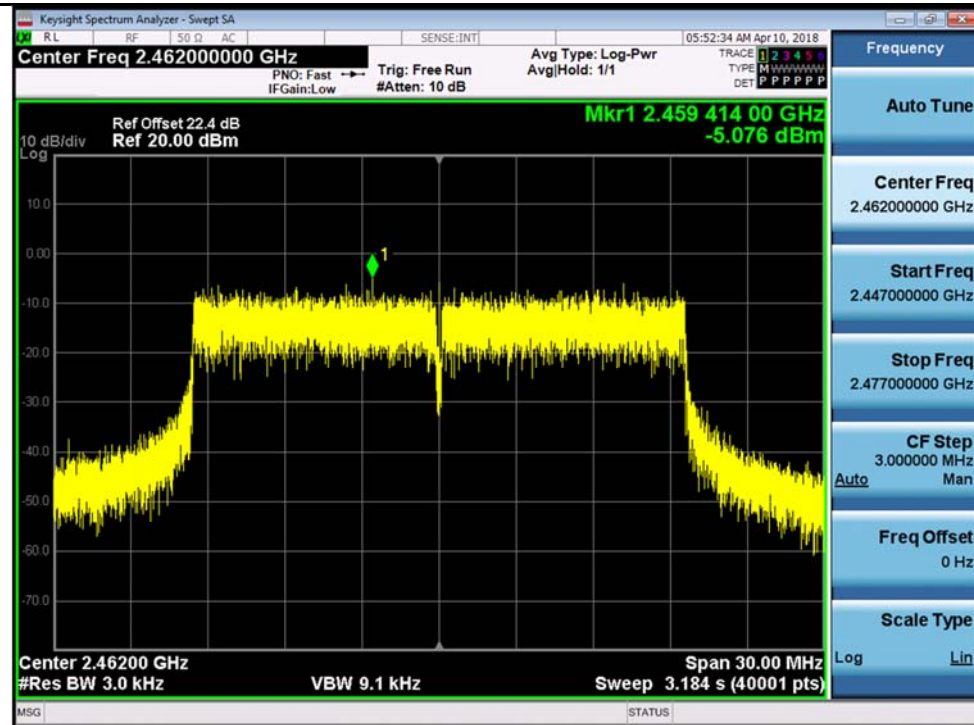
802.11ax20 2462MHz Chain 0



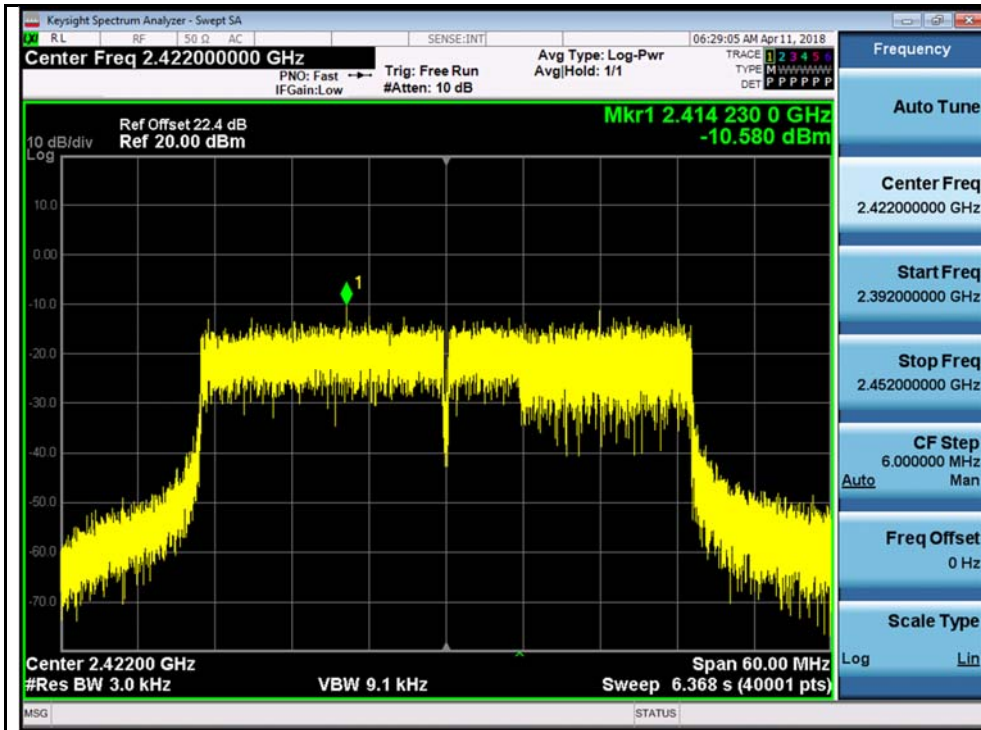
802.11ax20 2462MHz Chain 1



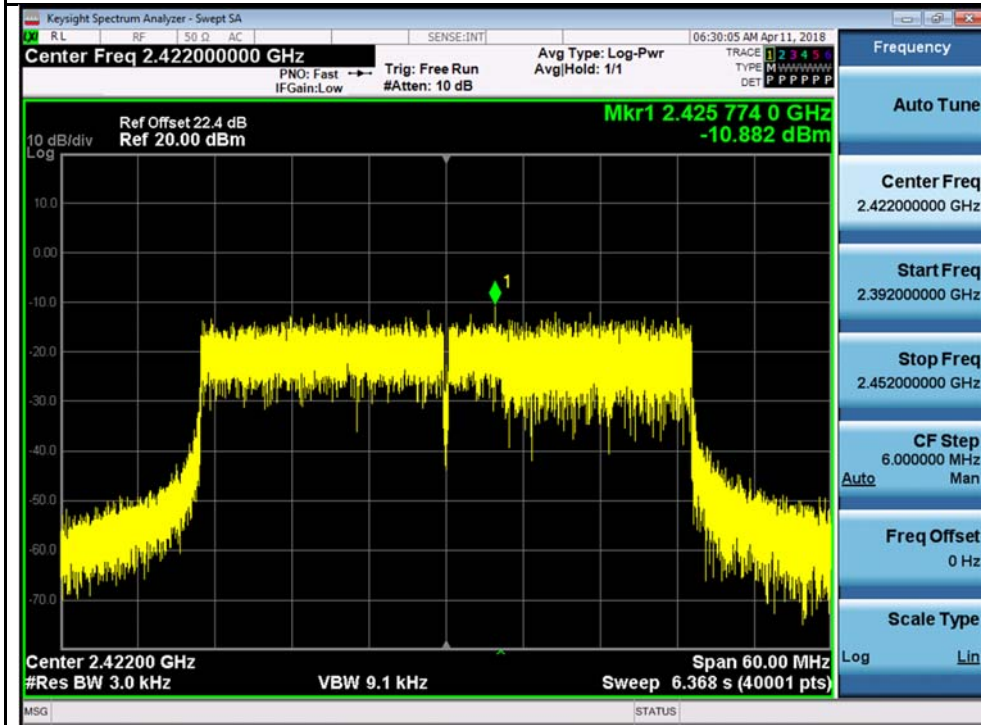
802.11ax20 2462MHz Chain 2



802.11ax20 2462MHz Chain 3



802.11ax40 2422MHz Chain 0



802.11ax40 2422MHz Chain 1