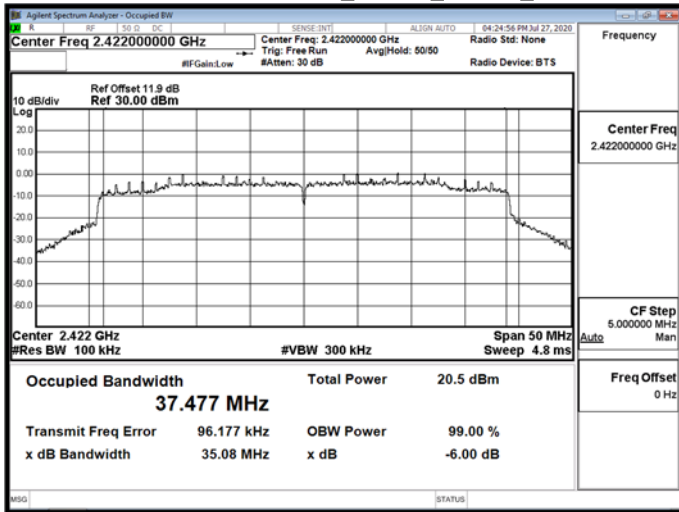
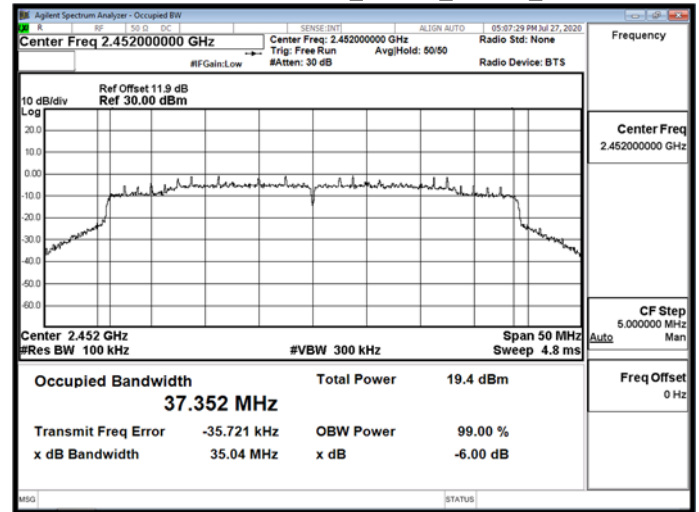


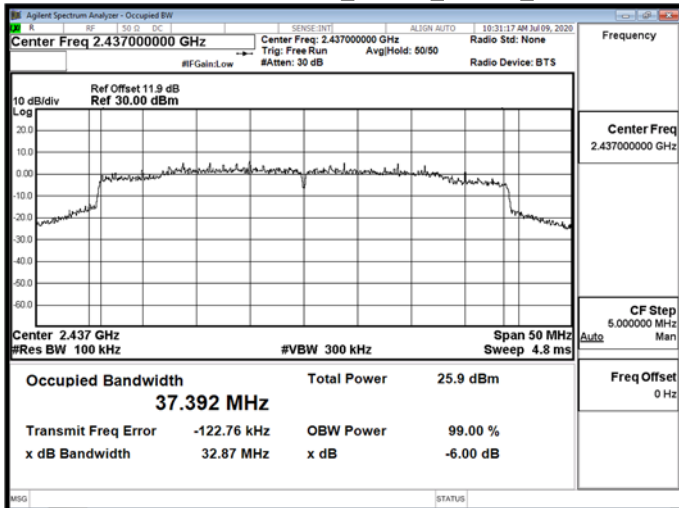
OBW 6dBWLAN\802.11ax_40MHz_Chain1_2422MHz



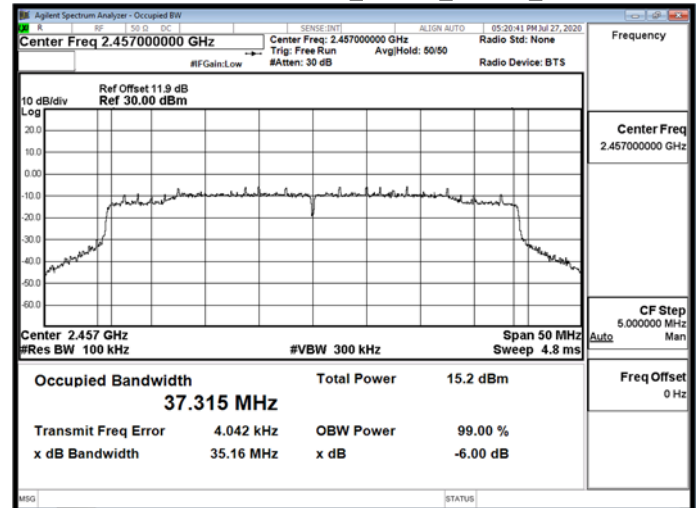
OBW 6dBWLAN\802.11ax_40MHz_Chain1_2452MHz



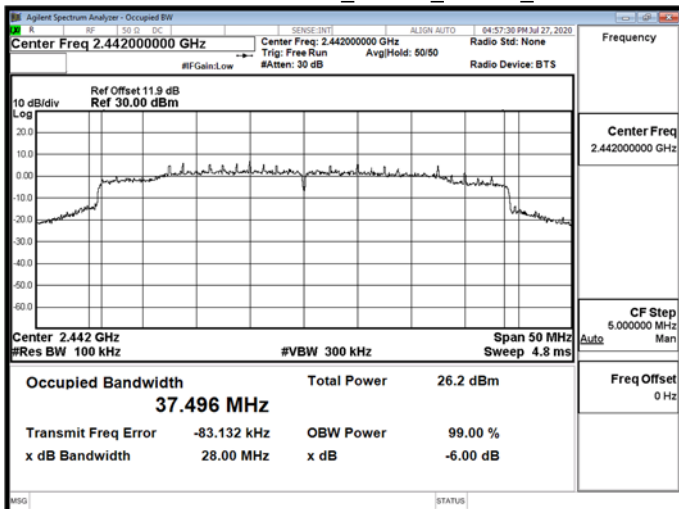
OBW 6dBWLAN\802.11ax_40MHz_Chain1_2437MHz



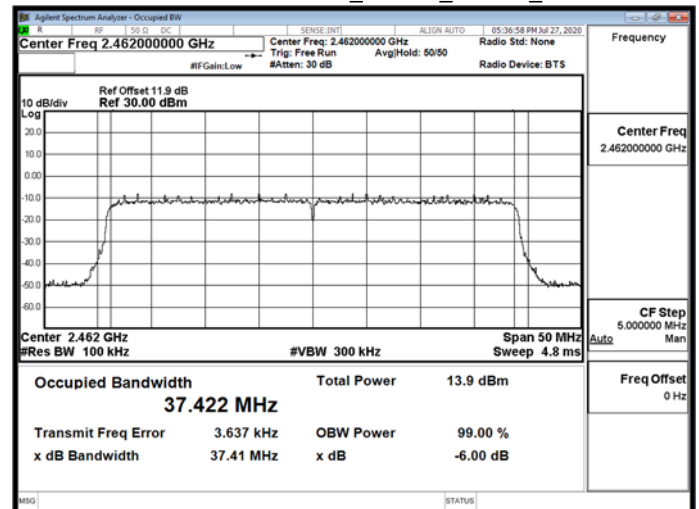
OBW 6dBWLAN\802.11ax_40MHz_Chain1_2457MHz



OBW 6dBWLAN\802.11ax_40MHz_Chain1_2442MHz



OBW 6dBWLAN\802.11ax_40MHz_Chain1_2462MHz



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10 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

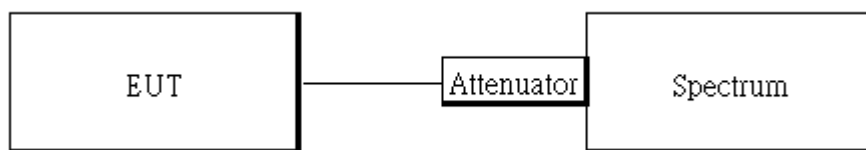
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

10.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/21/2019	11/20/2020
DC Block	PASTERNAK	PE8210	RF256	11/20/2019	11/19/2020
Attenuator	Marvelous	WATT-218FS-10	RF268	11/20/2019	11/19/2020
Coaxial Cables	Woken	00100A1F1A185C	RF219	11/20/2019	11/19/2020
I Pex4 Cables	Woken	00100A1H646027	RF508	06/01/2020	05/31/2021

10.3 Test SET-UP



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10.4 Measurement Procedure

Reference Level of Emission Limit:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 100kHz & VBW = 300 kHz.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum Analyzer.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum analyzer to be examined.
5. Set the spectrum analyzer as RBW=100 kHz, VBW=300 kHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 kHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.
10. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

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Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum Analyzer.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set RBW = 100 kHz & VBW= 300 kHz, Detector =Peak, Sweep = Auto.
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.
7. MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna.

Note:

For test of MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Antenna Chain 0 at single transmitting mode and Chain 1 that yields the higher value. The MIMO transmitting mode produces higher value of outcome.

10.5 Measurement Result

Mode: Chain 0

Reference Level of Limit 802.11b mode			Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	11.73	-8.27	2412	6.19	-13.81
2437	10.05	-9.95	2437	8.70	-11.30
2442	10.14	-9.86	2442	8.79	-11.21
2462	9.99	-10.01	2462	5.15	-14.85
2467	8.96	-11.04	2467	4.12	-15.88
2472	4.63	-15.37	2472	-4.37	-24.37

Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.24	-14.76	2422	0.75	-19.25
2437	5.52	-14.48	2437	4.84	-15.16
2442	7.75	-12.25	2442	4.16	-15.84
2462	2.95	-17.05	2452	-0.44	-20.44
2467	2.18	-17.82	2457	-4.31	-24.31
2472	-5.68	-25.68	2462	-8.1	-28.10

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Reference Level of Limit 802.11ax20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	6.17	-13.83
2437	8.41	-11.59
2442	6.48	-13.52
2462	4.31	-15.69
2467	0.39	-19.61
2472	-5.32	-25.32

Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	1.52	-18.48
2437	5.73	-14.27
2442	5.88	-14.12
2452	-0.9	-20.90
2457	-4.42	-24.42
2462	-7.42	-27.42

Mode: Chain 1

Reference Level of Limit 802.11b mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	10.05	-9.95
2437	10.16	-9.84
2442	10.11	-9.89
2462	10.19	-9.81
2467	8.45	-11.55
2472	5.62	-14.38

Reference Level of Limit 802.11g mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	7.51	-12.49
2437	8.49	-11.51
2442	8.89	-11.11
2462	6.06	-13.94
2467	3.43	-16.57
2472	-2.89	-22.89

Reference Level of Limit 802.11n20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	6.62	-13.38
2437	8.62	-11.38
2442	8.85	-11.15
2462	5.19	-14.81
2467	2.30	-17.70
2472	-3.99	-23.99

Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	2.41	-17.59
2437	4.62	-15.38
2442	5.24	-14.76
2452	-0.22	-20.22
2457	-4.71	-24.71
2462	-8.14	-28.14

Reference Level of Limit 802.11ax20 mode		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.54	-14.46
2437	8.74	-11.26
2442	8.06	-11.94
2462	3.70	-16.30
2467	1.85	-18.15
2472	-5.68	-25.68

Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2422	1.67	-18.33
2437	5.98	-14.02
2442	5.79	-14.21
2452	-0.39	-20.39
2457	-4.36	-24.36
2462	-7.42	-27.42

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Mode: MIMO

Reference Level of Limit 802.11n20 mode			Reference Level of Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	8.32	-11.68	2422	3.42	-16.58
2437	11.50	-8.50	2437	10.02	-9.98
2442	7.77	-12.23	2442	8.15	-11.85
2462	4.67	-15.33	2452	2.66	-17.34
2467	5.74	-14.26	2457	-1.21	-21.21
2472	-1.17	-21.17	2462	-4.94	-24.94

Reference Level of Limit 802.11ax20 mode			Reference Level of Limit 802.11ax40 MODE		
Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)	Freq. (MHz)	PSD (dBm)	Reference Level of Limit (dBm)
2412	5.46	-14.54	2422	3.3	-16.70
2437	11.55	-8.45	2437	8.57	-11.43
2442	11.12	-8.88	2442	9.53	-10.47
2462	6.16	-13.84	2452	2.17	-17.83
2467	3.69	-16.32	2457	-2.64	-22.64
2472	0.88	-19.12	2462	-4.87	-24.87

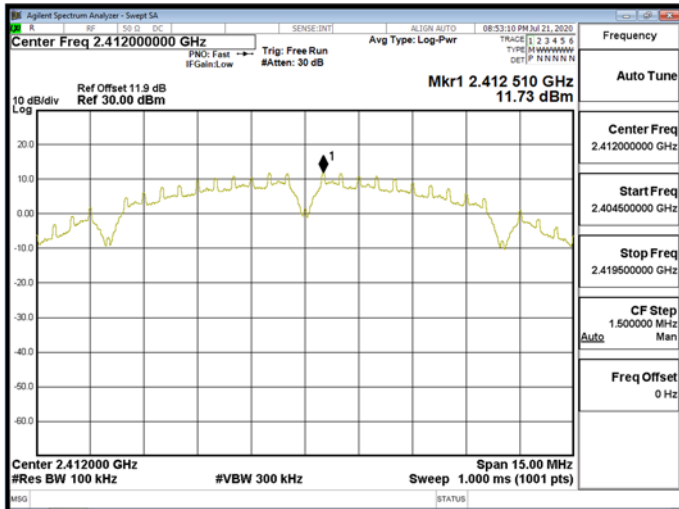
*Refer to next page for plots

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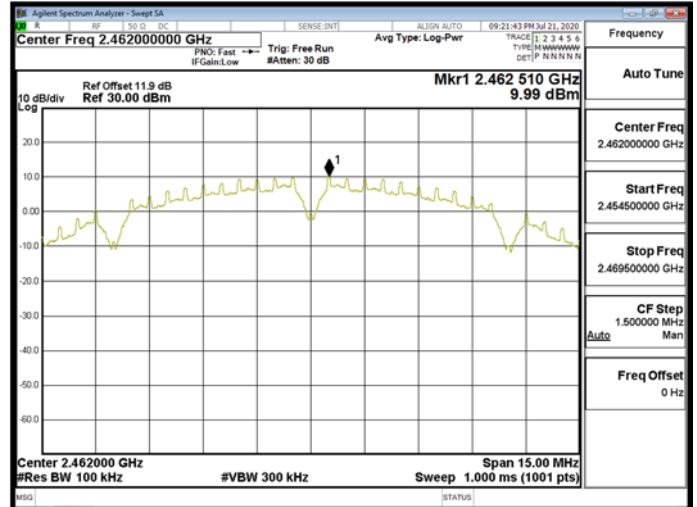
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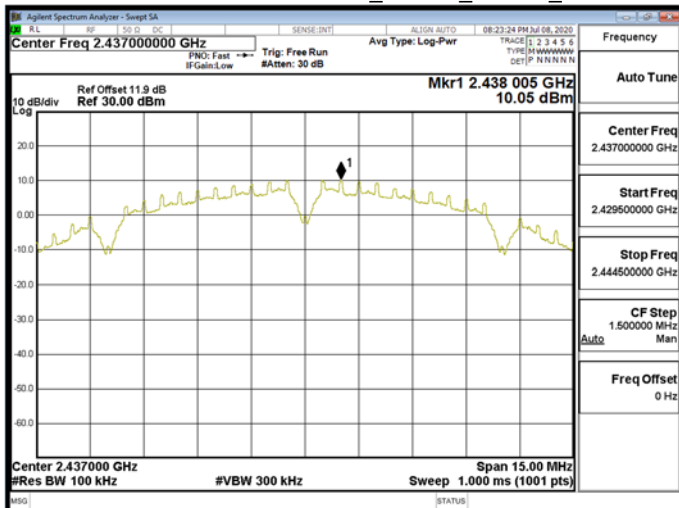
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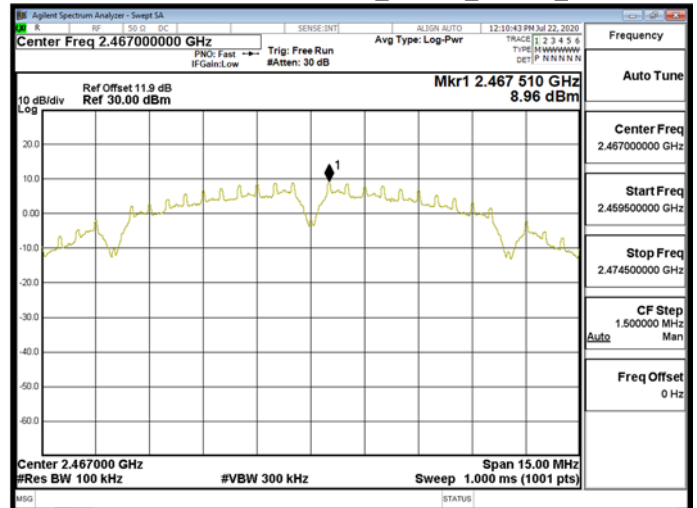
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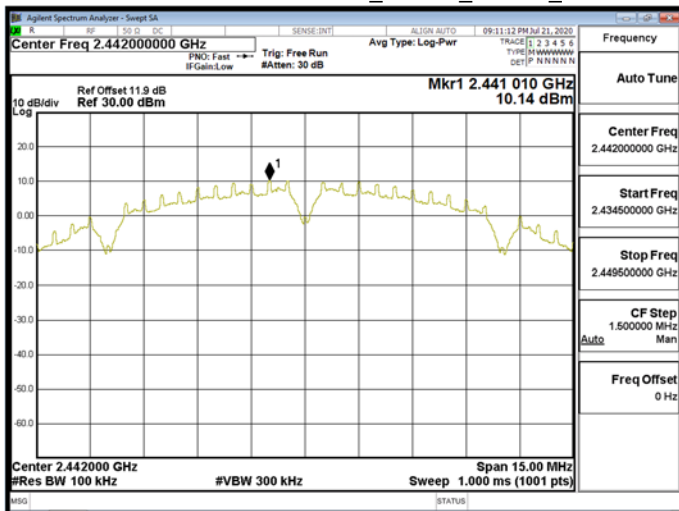
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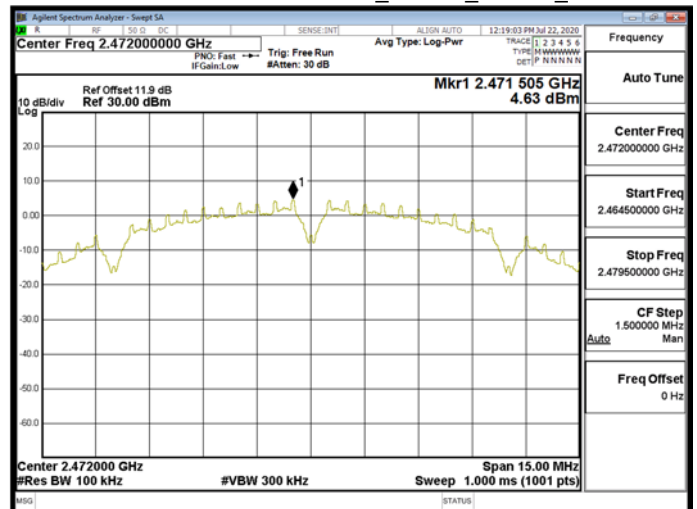
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Reference Level\WLAN\802.11b_20MHz_Chain0_2442MHz



Reference Level\WLAN\802.11b_20MHz_Chain0_2472MHz

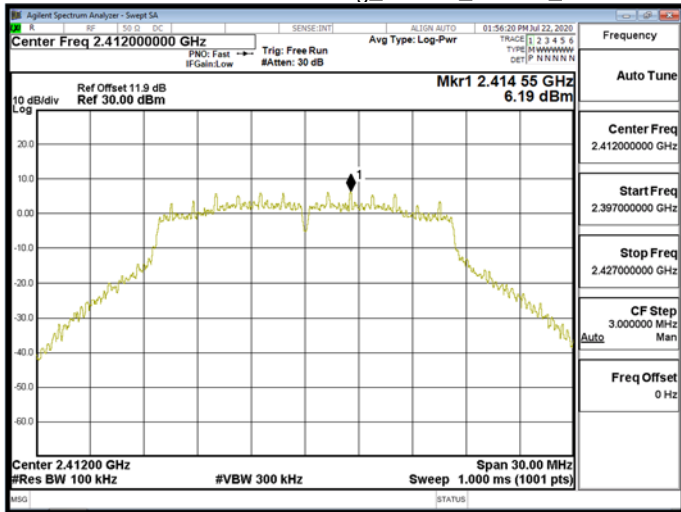


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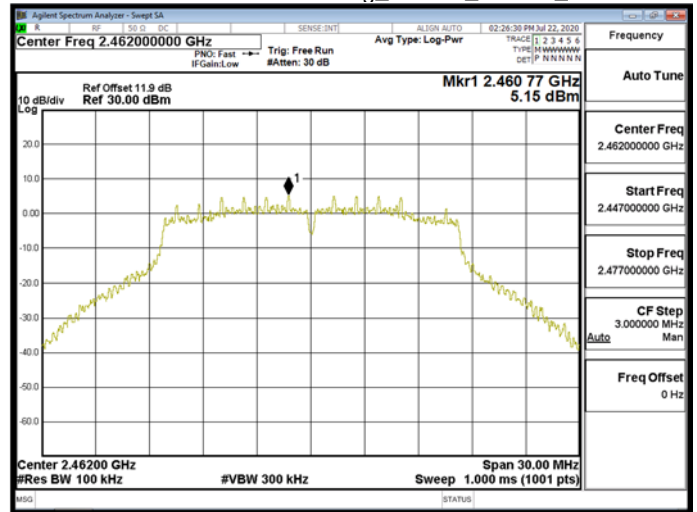
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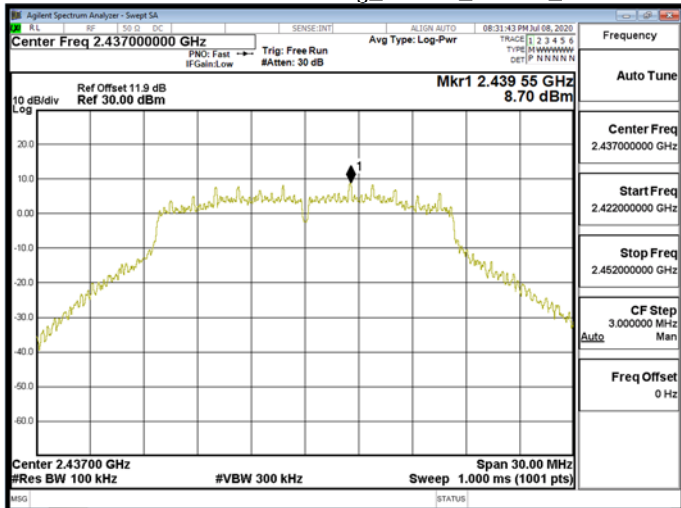
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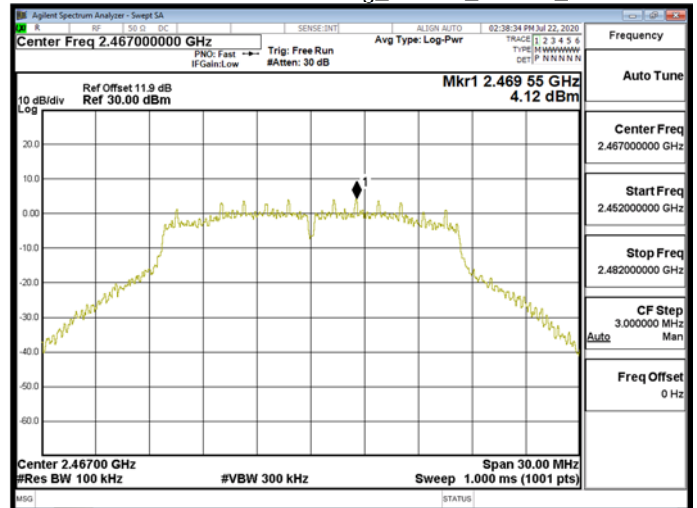
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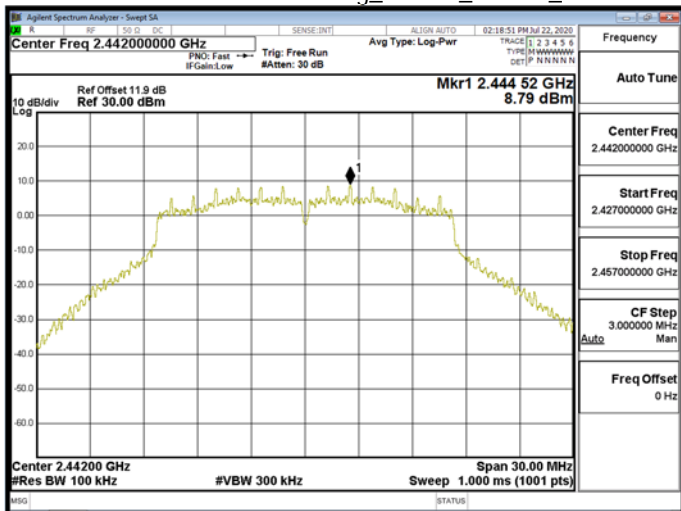
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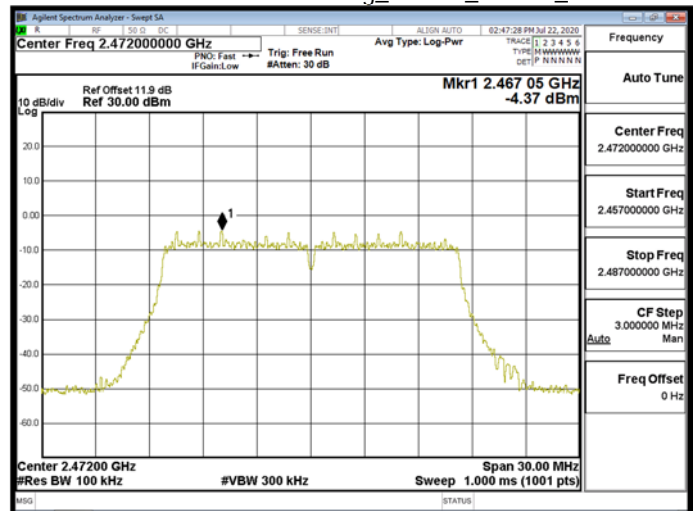
Reference Level\WLAN\802.11g_20MHz_Chain0_2467MHz



Reference Level\WLAN\802.11g_20MHz_Chain0_2442MHz



Reference Level\WLAN\802.11g_20MHz_Chain0_2472MHz

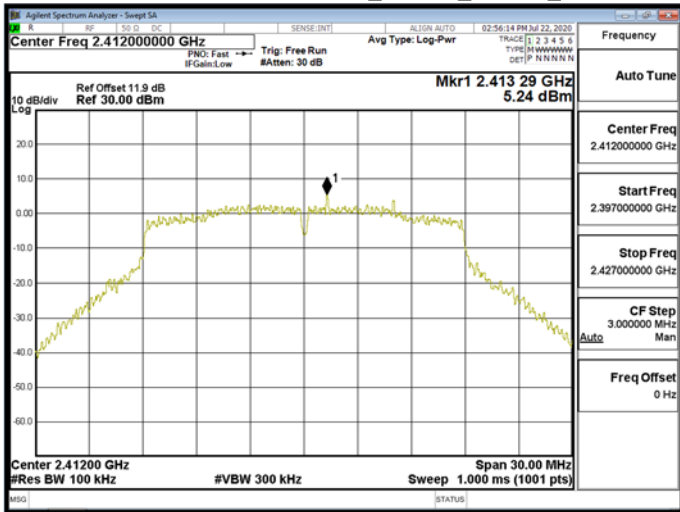


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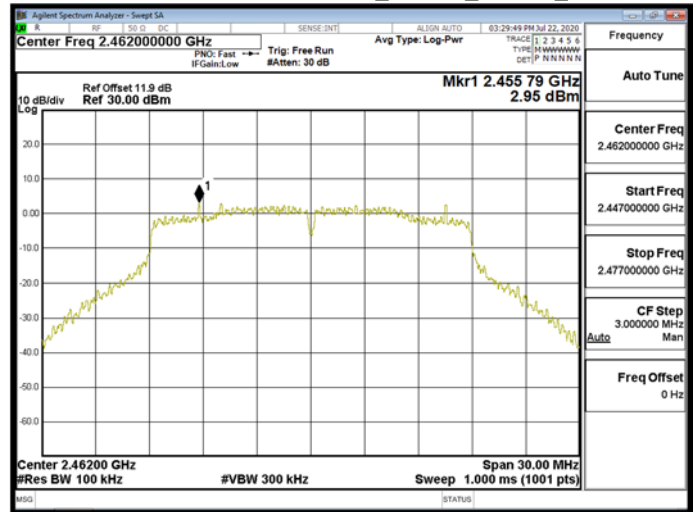
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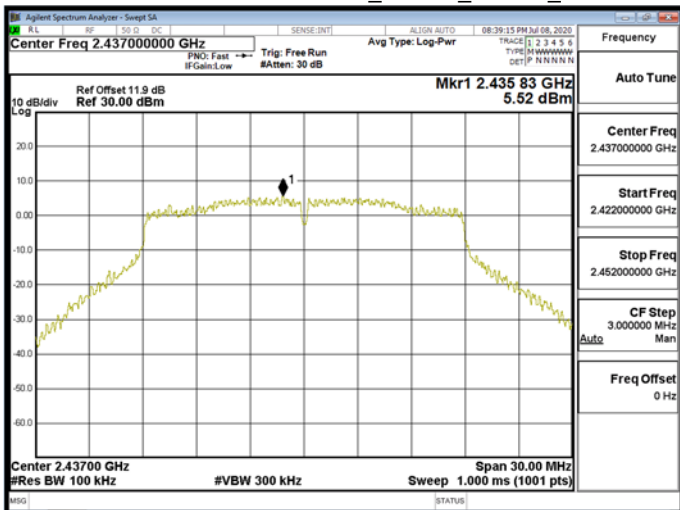
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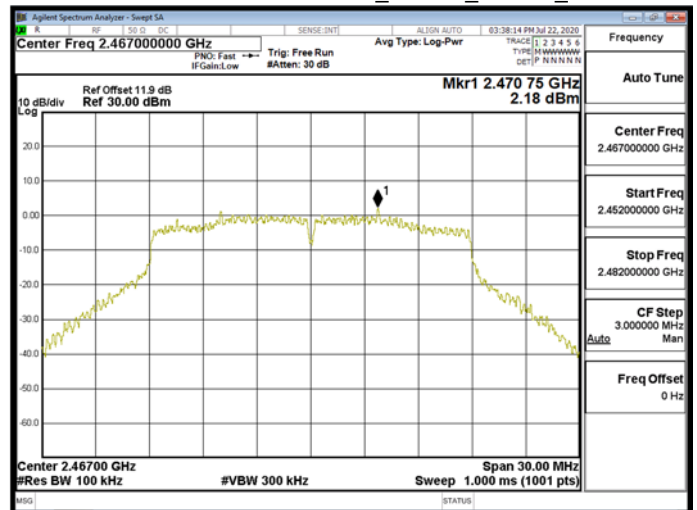
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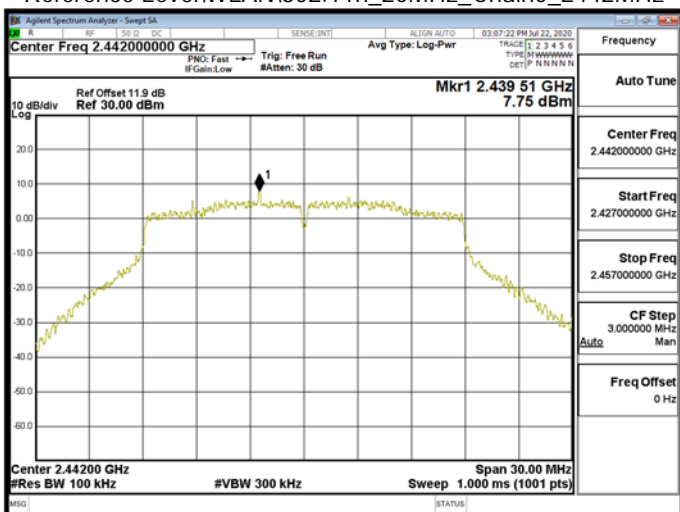
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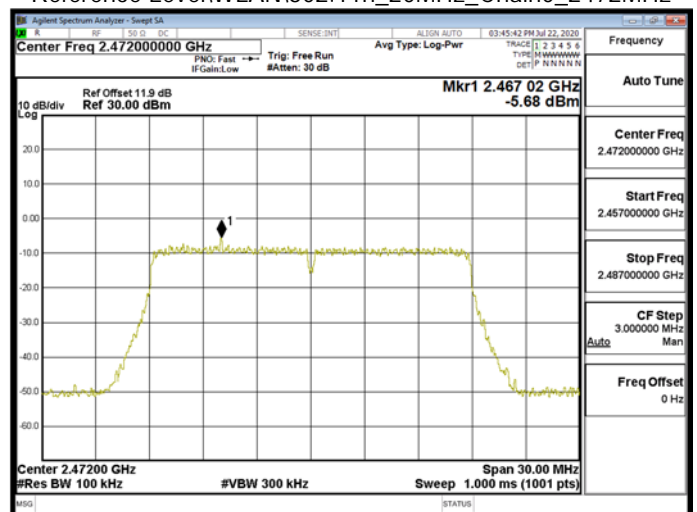
Reference Level\WLAN\802.11n_20MHz_Chain0_2467MHz



Reference Level\WLAN\802.11n_20MHz_Chain0_2442MHz



Reference Level\WLAN\802.11n_20MHz_Chain0_2472MHz

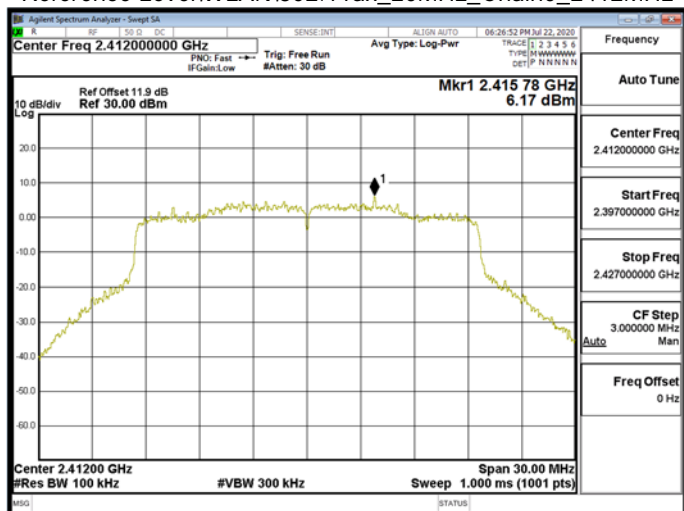


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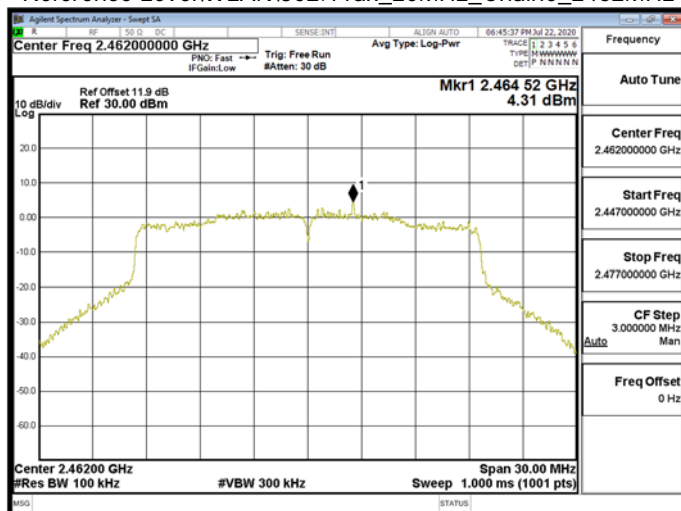
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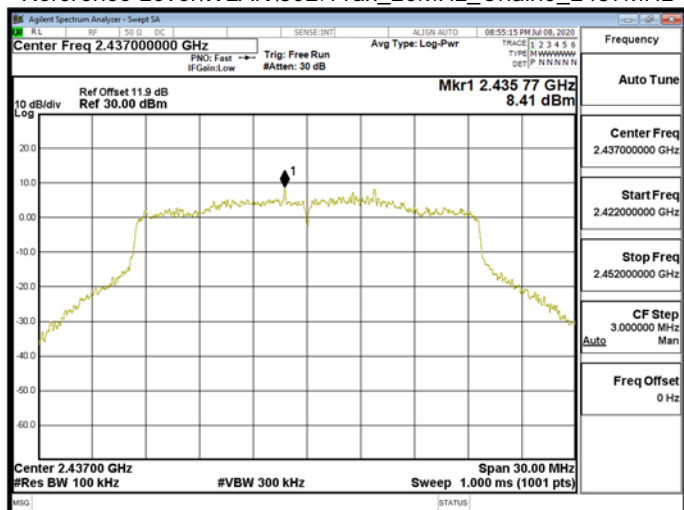
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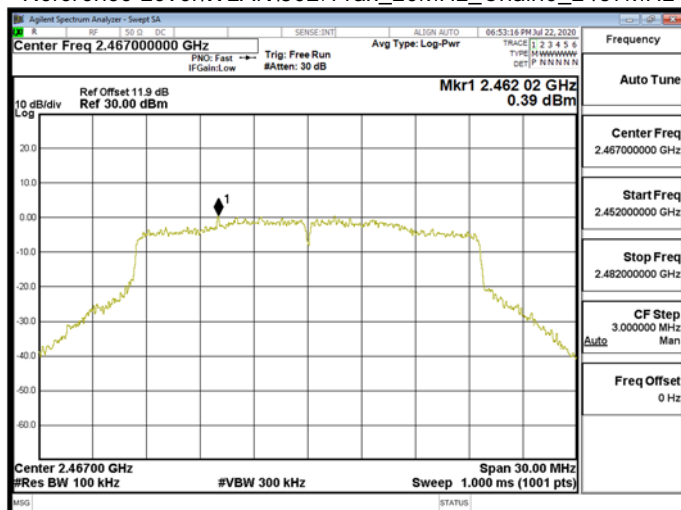
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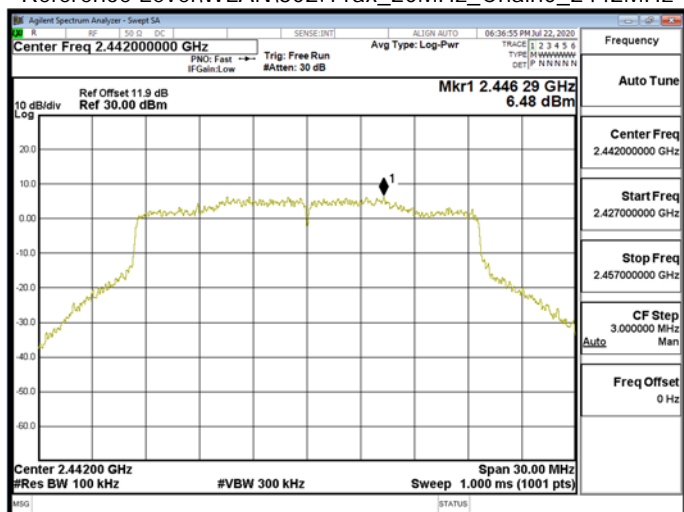
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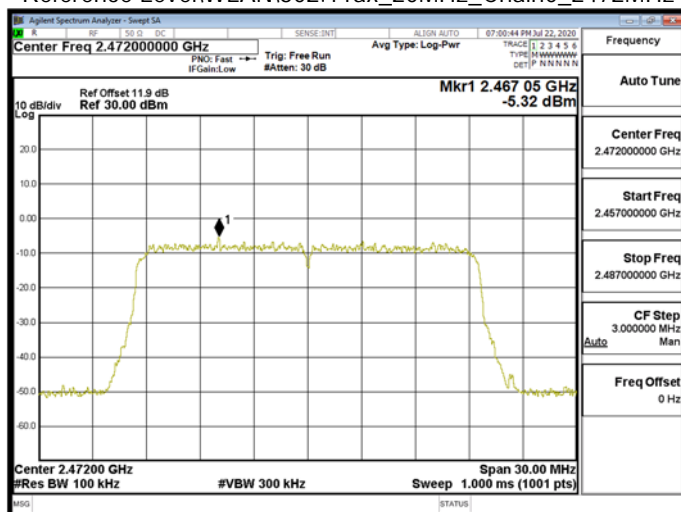
Reference Level\WLAN\802.11ax_20MHz_Chain0_2467MHz



Reference Level\WLAN\802.11ax_20MHz_Chain0_2442MHz



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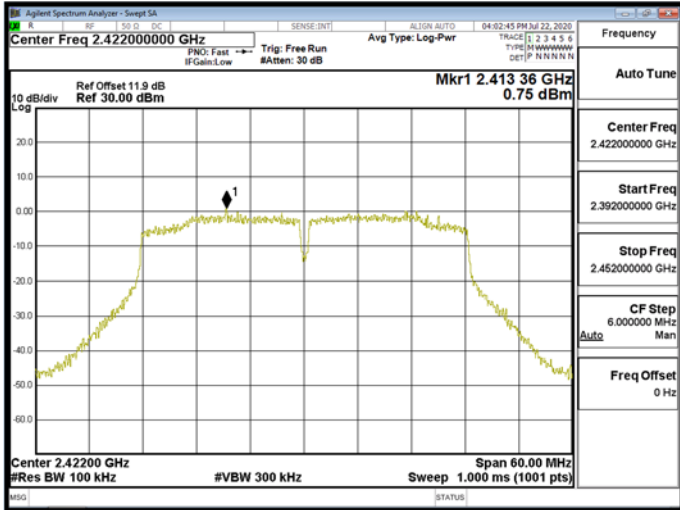


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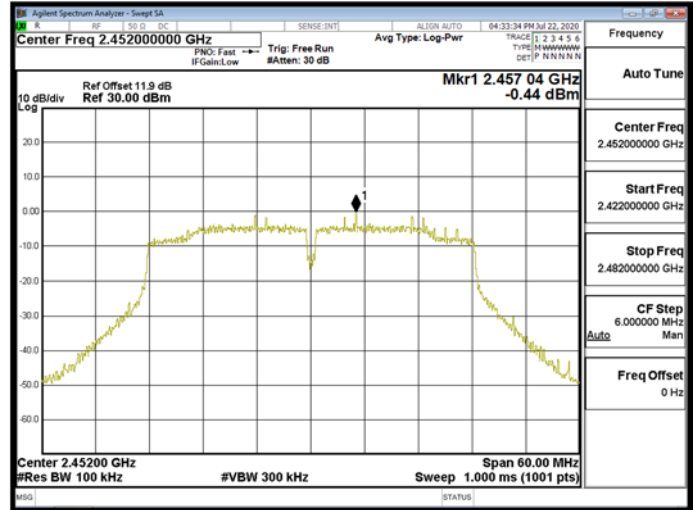
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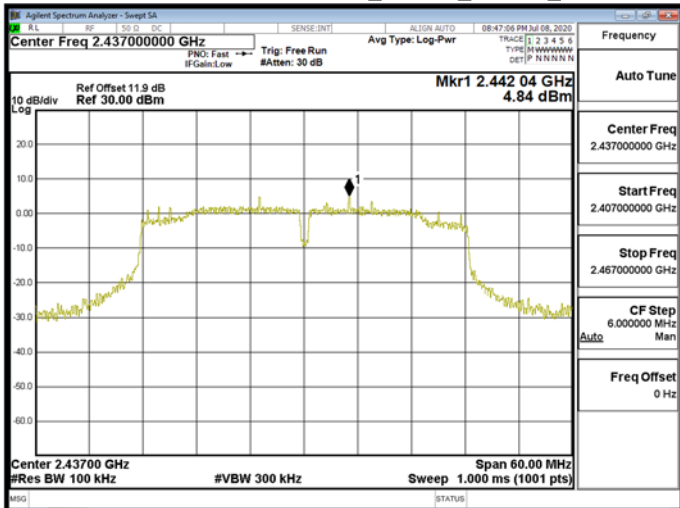
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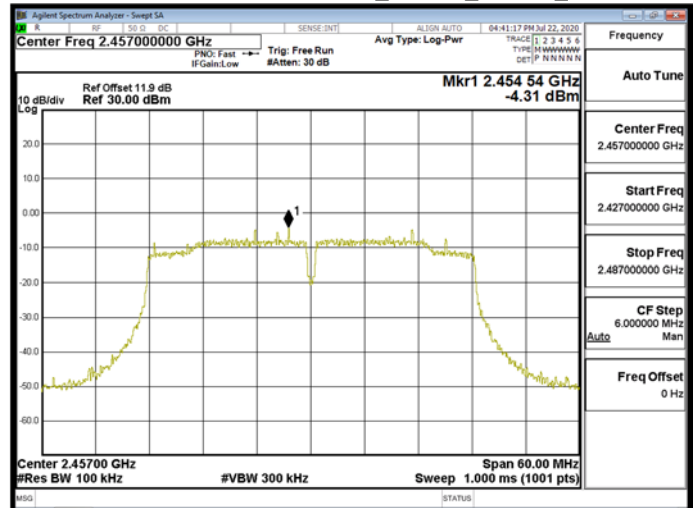
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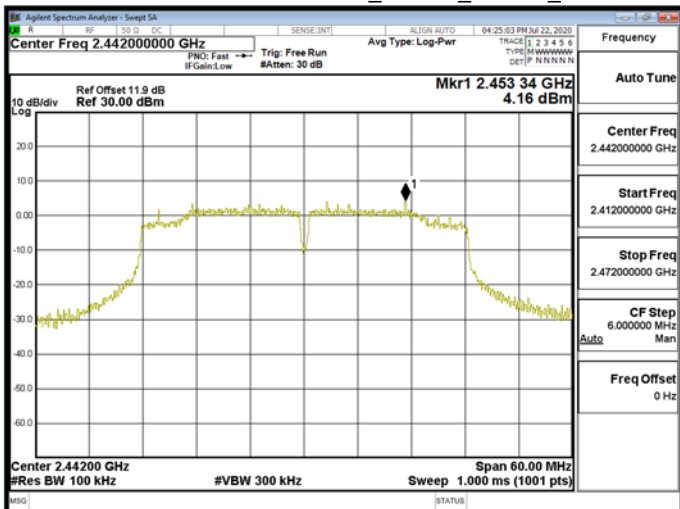
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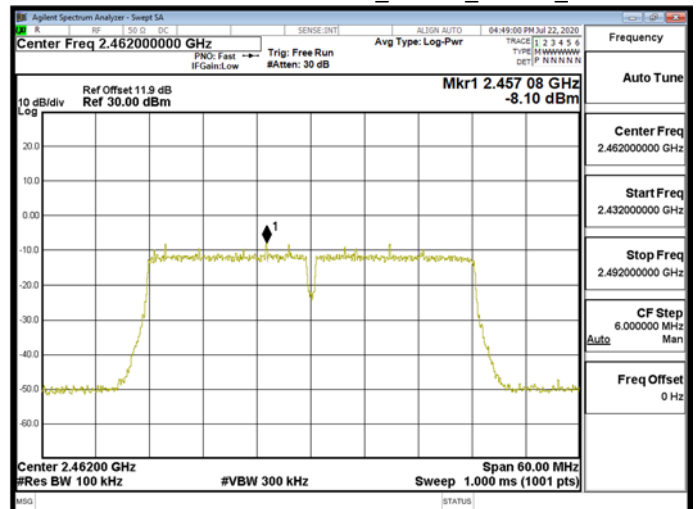
Reference Level\WLAN\802.11n_40MHz_Chain0_2457MHz



Reference Level\WLAN\802.11n_40MHz_Chain0_2442MHz



Reference Level\WLAN\802.11n_40MHz_Chain0_2462MHz

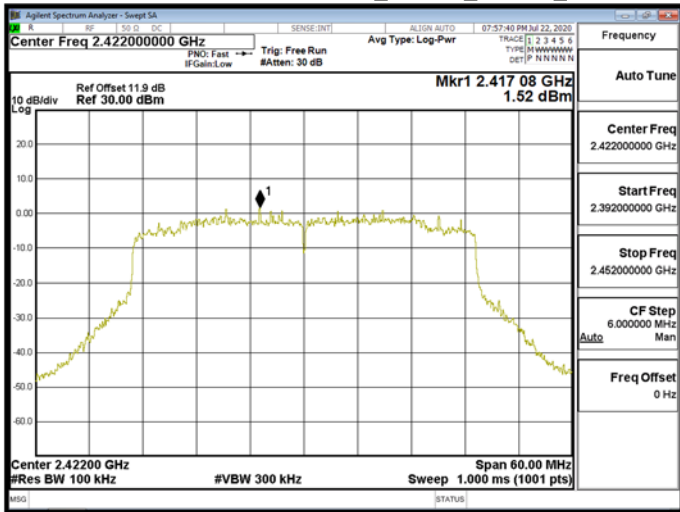


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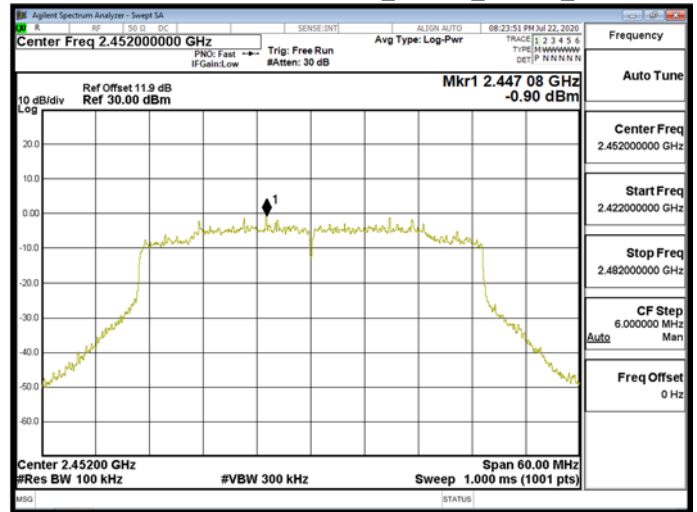
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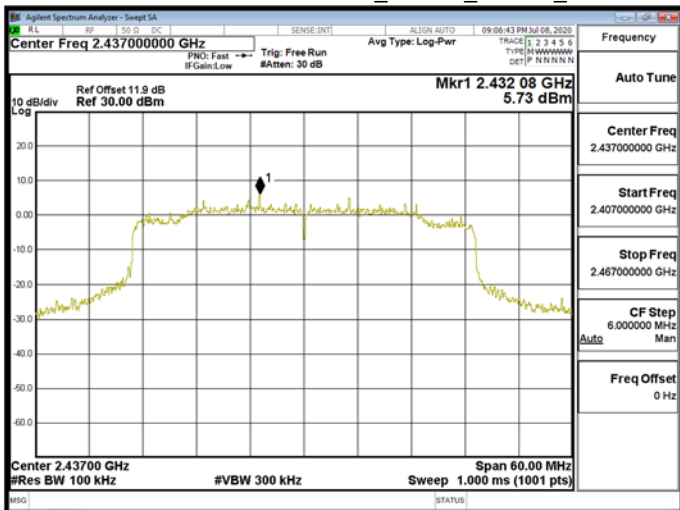
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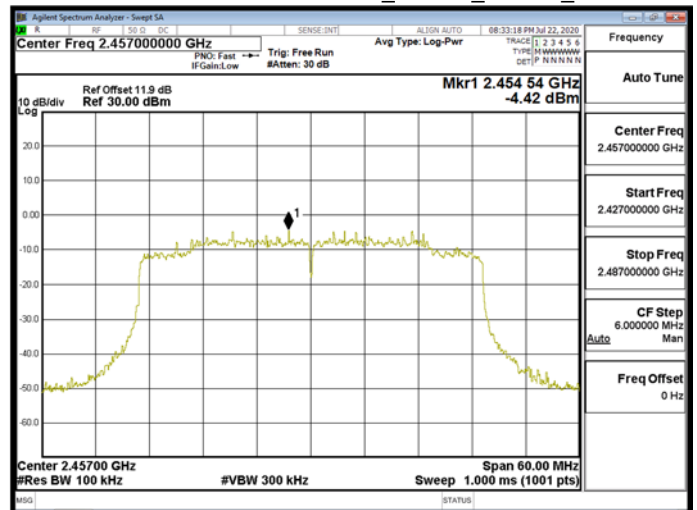
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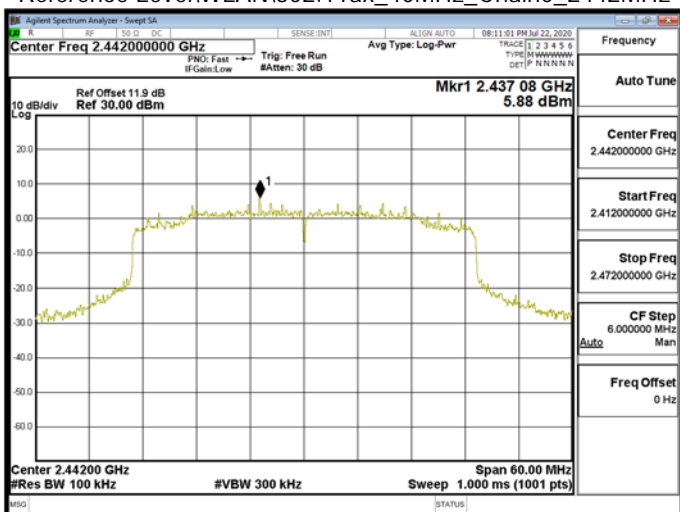
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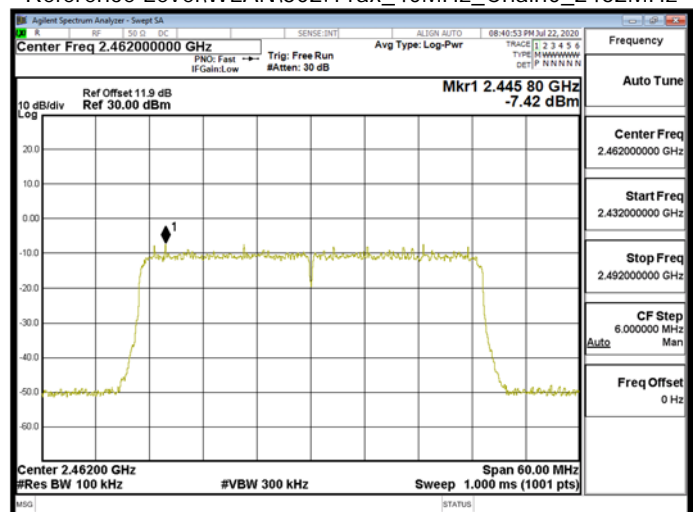
Reference Level\WLAN\802.11ax_40MHz_Chain0_2457MHz



Reference Level\WLAN\802.11ax_40MHz_Chain0_2442MHz



Reference Level\WLAN\802.11ax_40MHz_Chain0_2462MHz

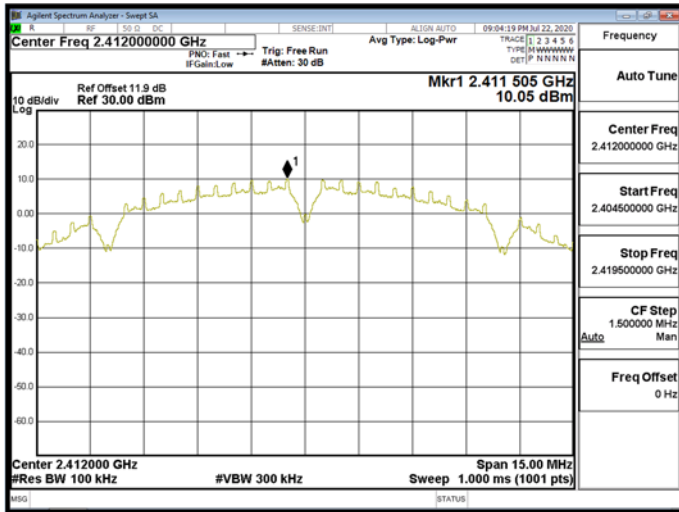


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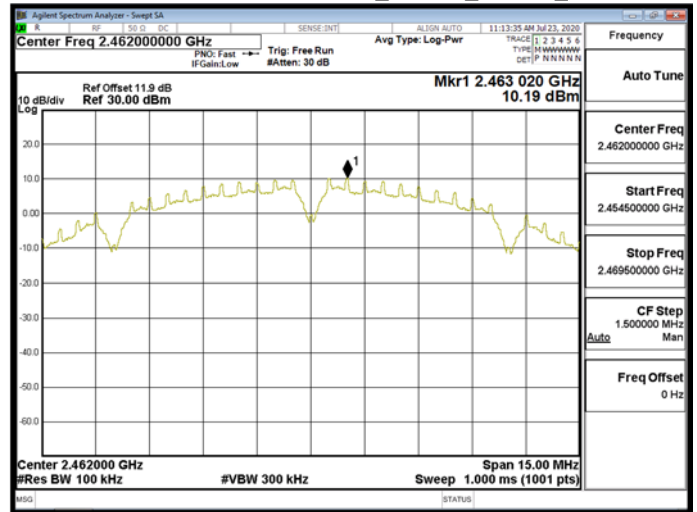
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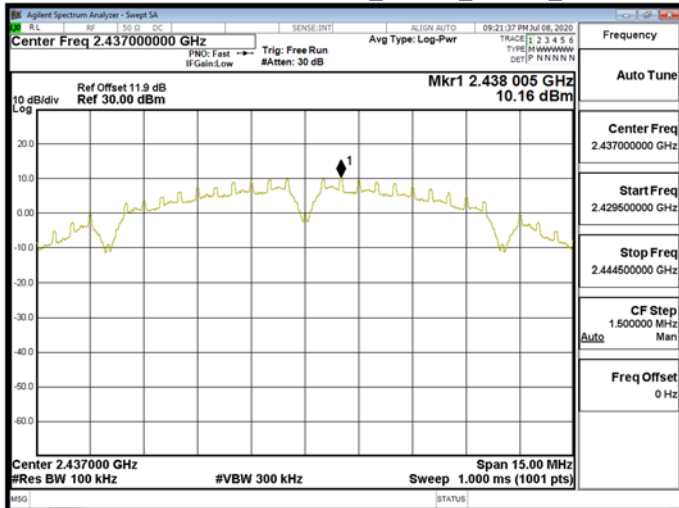
Ch1 Reference Level\WLAN\802.11b_20MHz_Chain1_2412MHz



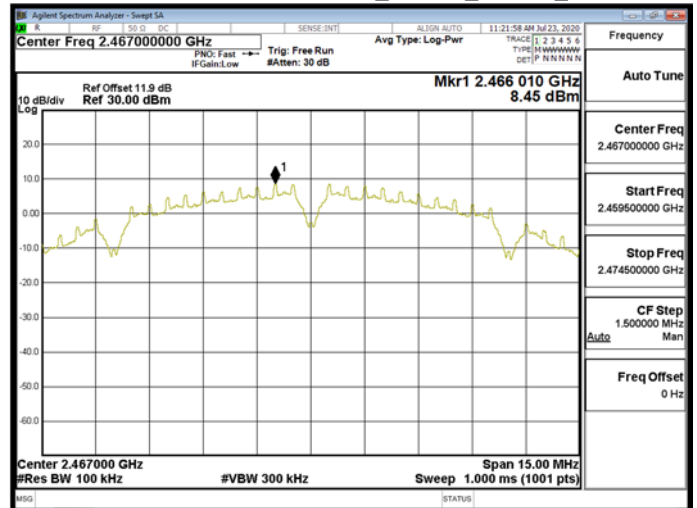
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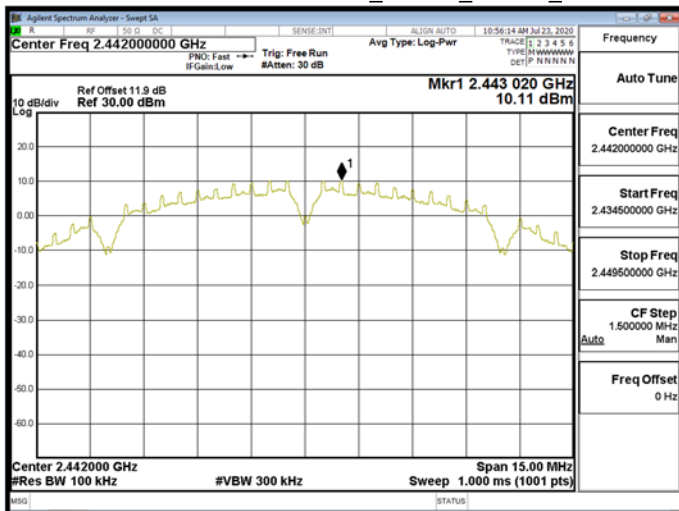
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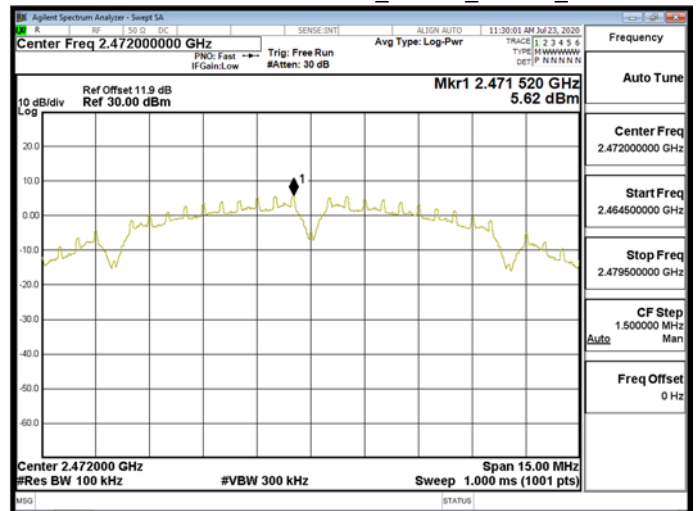
Reference Level\WLAN\802.11b_20MHz_Chain1_2467MHz



Reference Level\WLAN\802.11b_20MHz_Chain1_2442MHz



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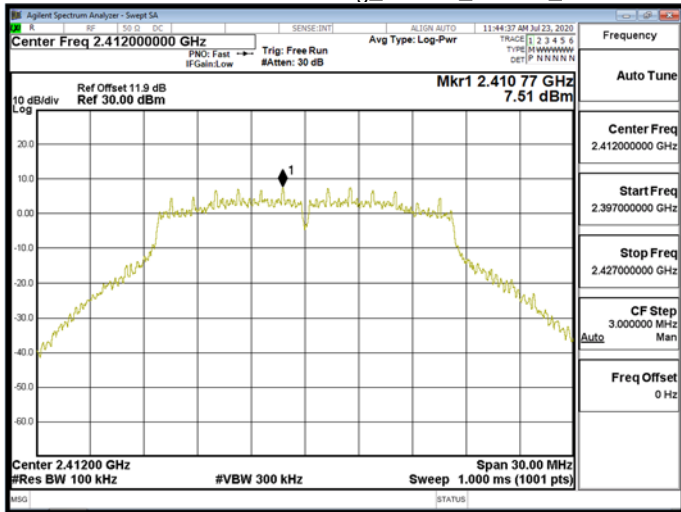


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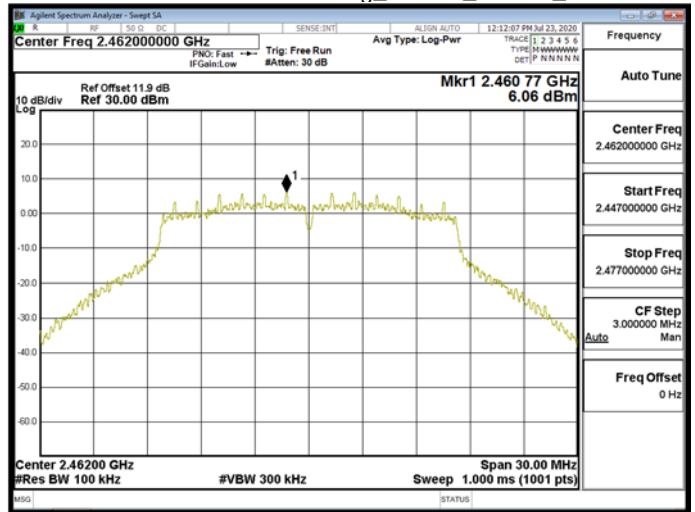
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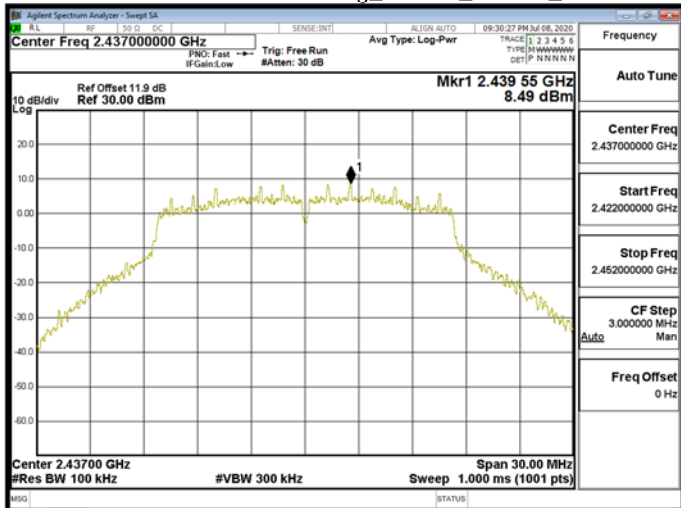
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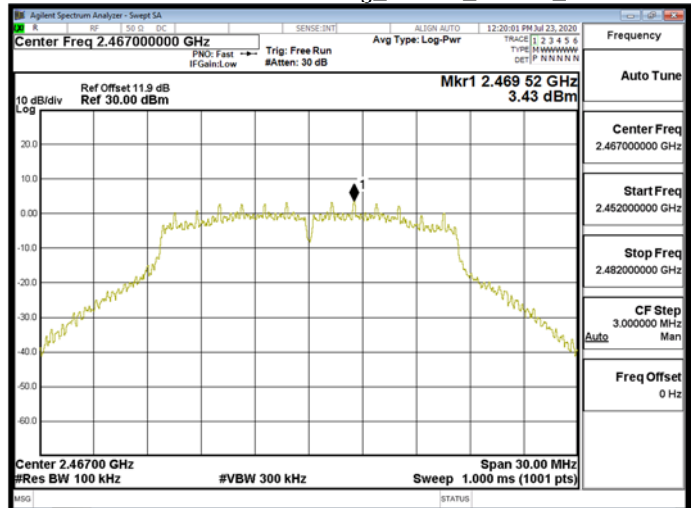
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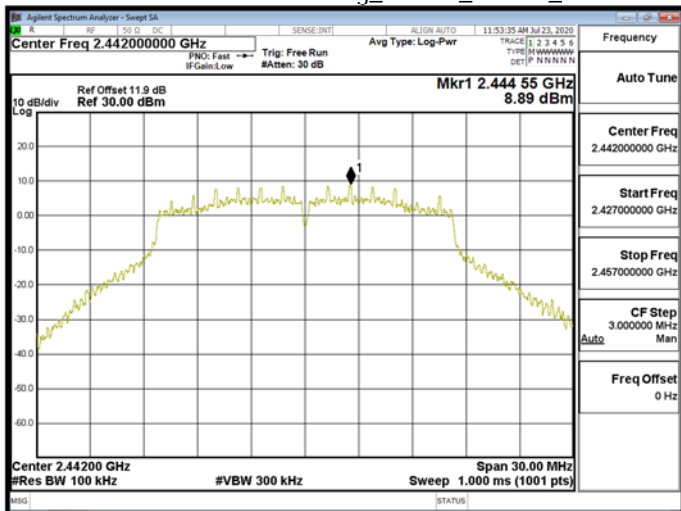
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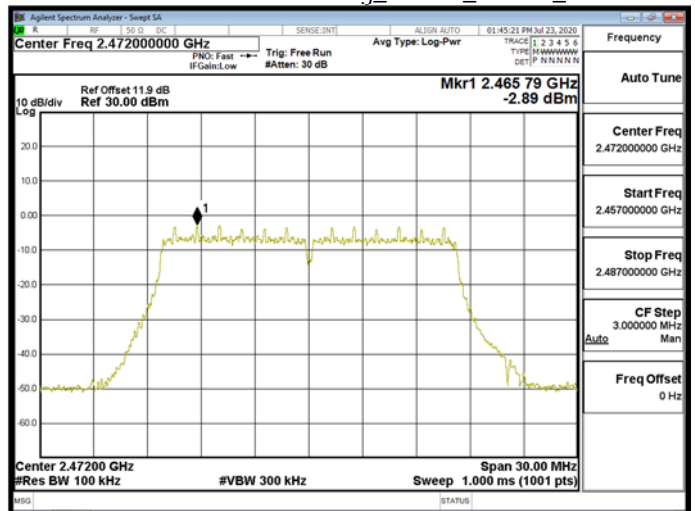
Reference Level\WLAN\802.11g_20MHz_Chain1_2467MHz



Reference Level\WLAN\802.11g_20MHz_Chain1_2442MHz



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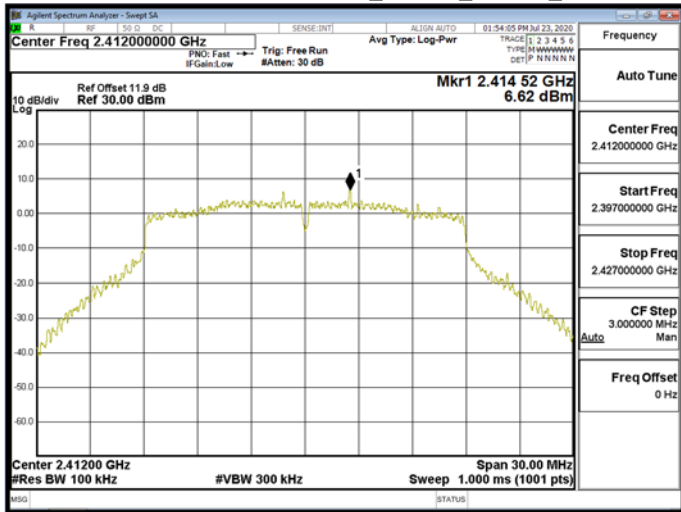


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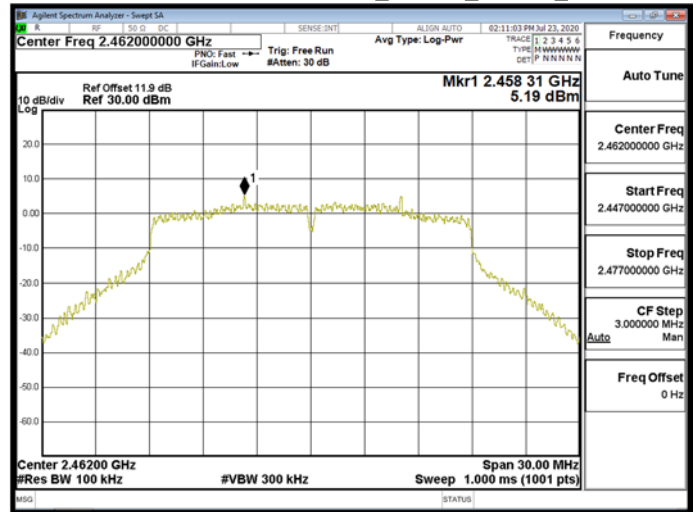
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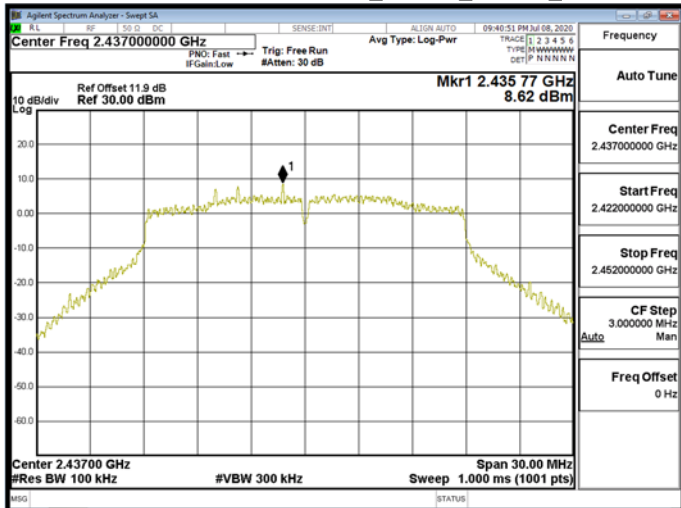
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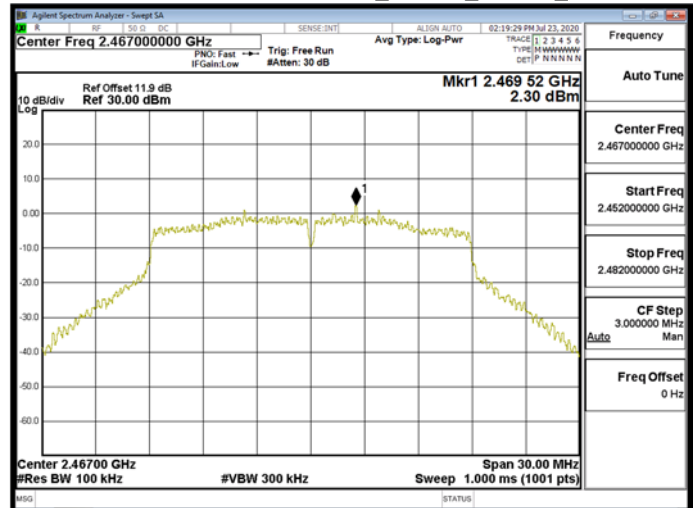
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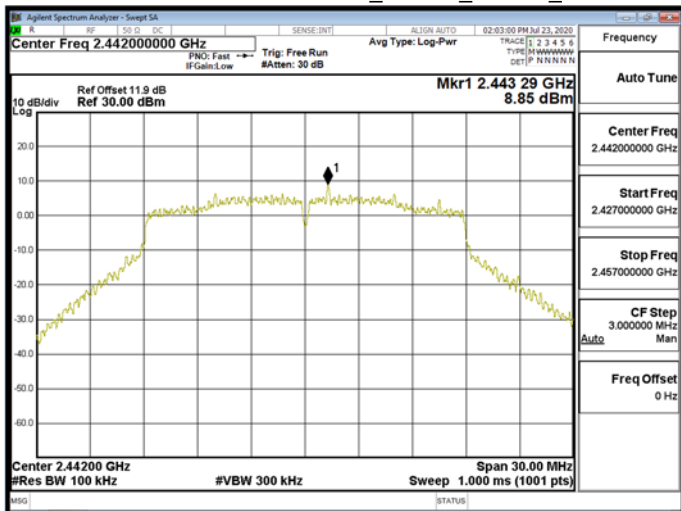
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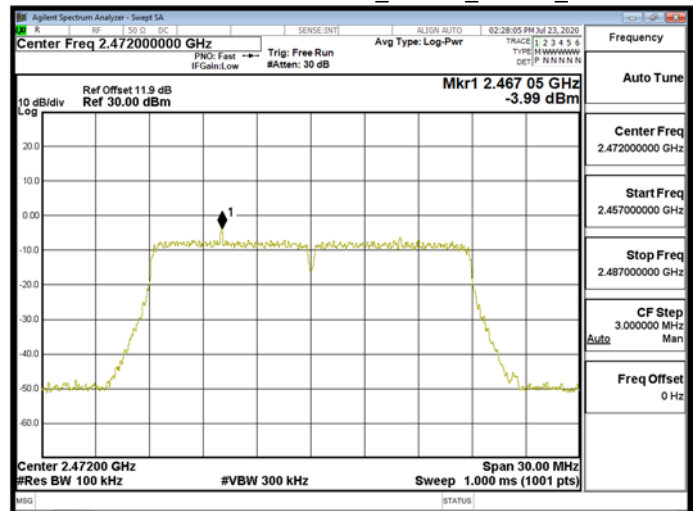
Reference Level\WLAN\802.11n_20MHz_Chain1_2467MHz



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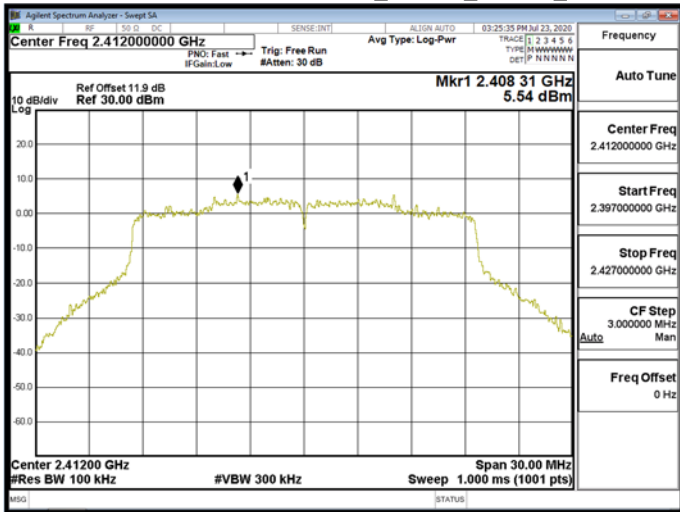


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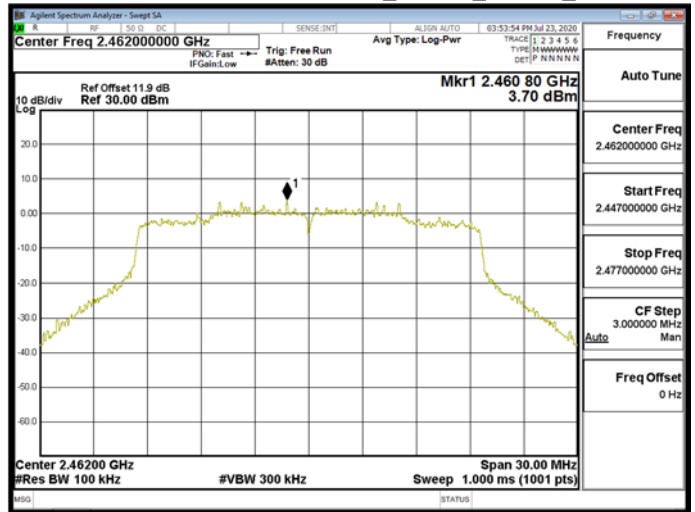
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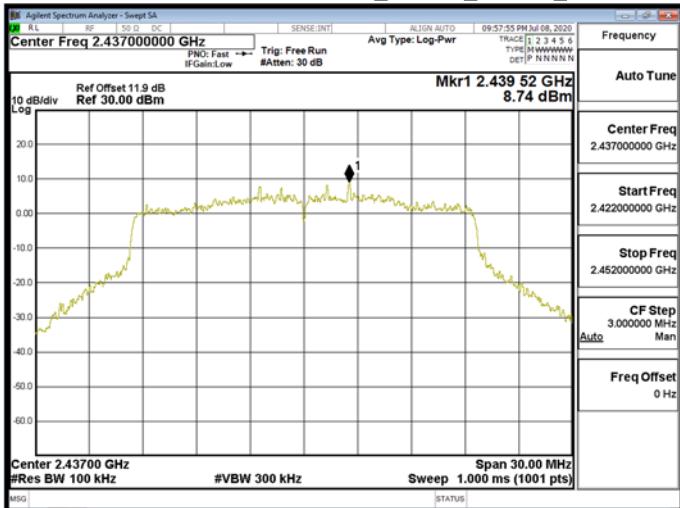
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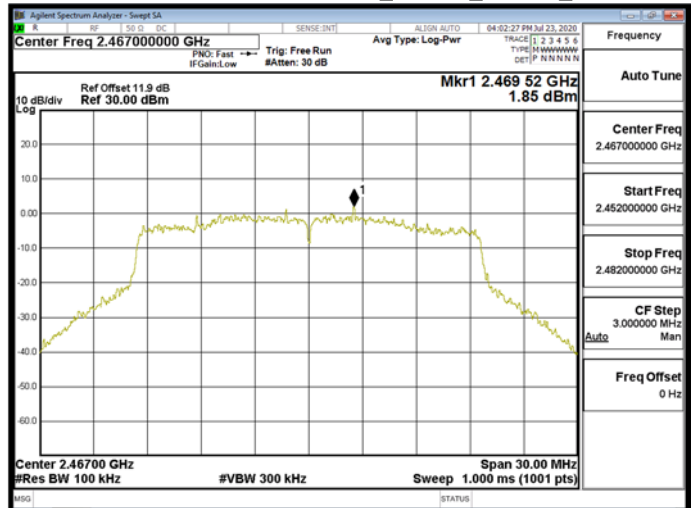
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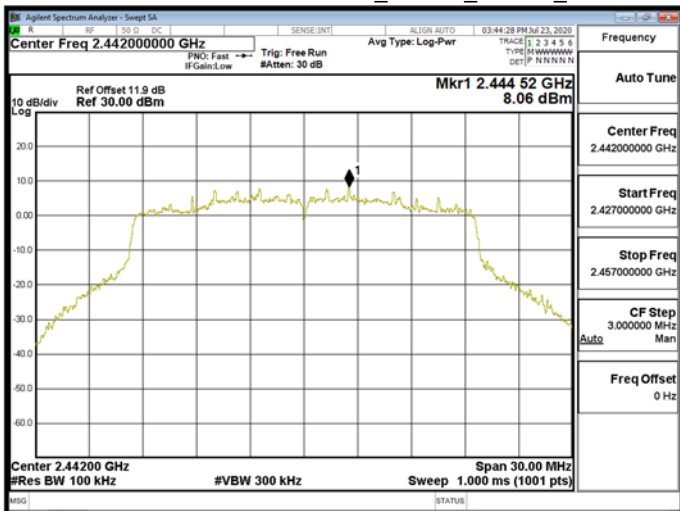
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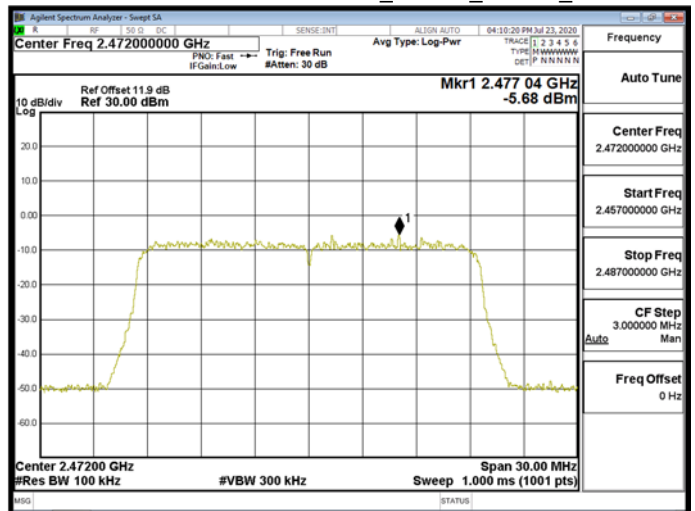
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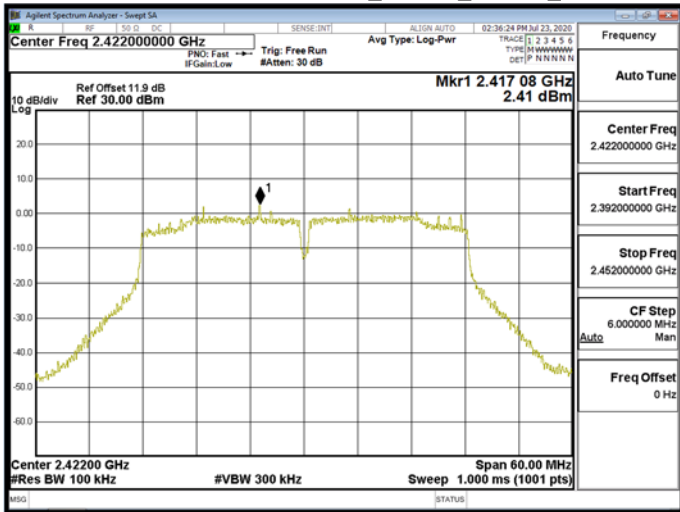


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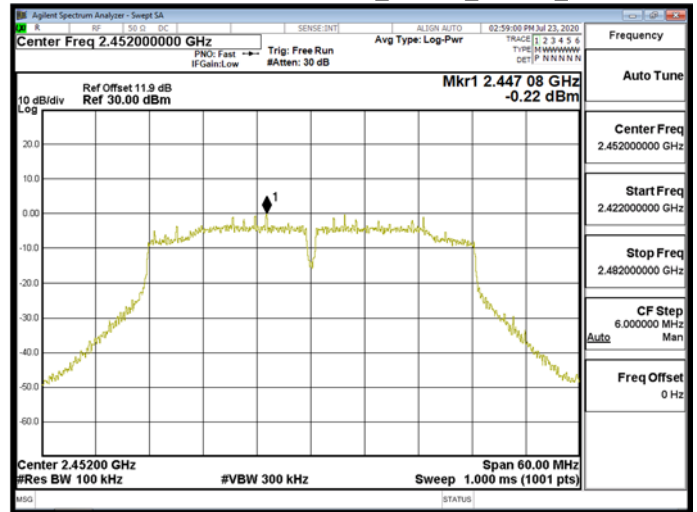
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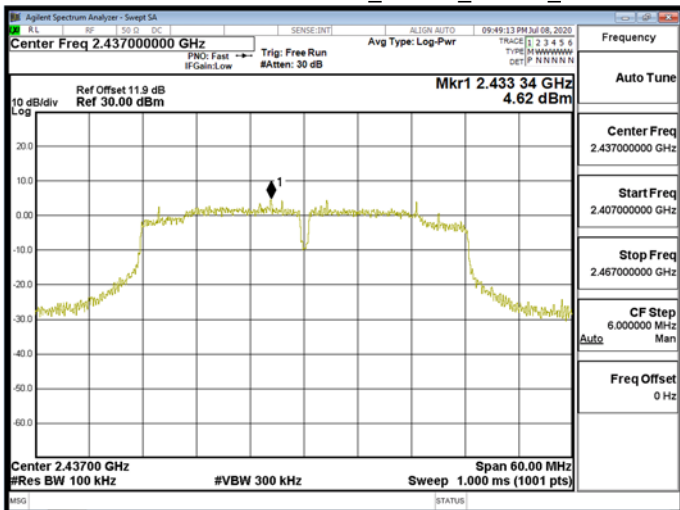
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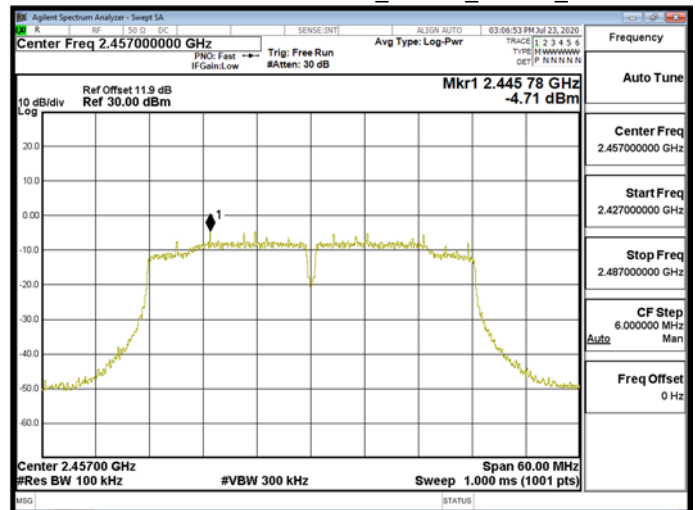
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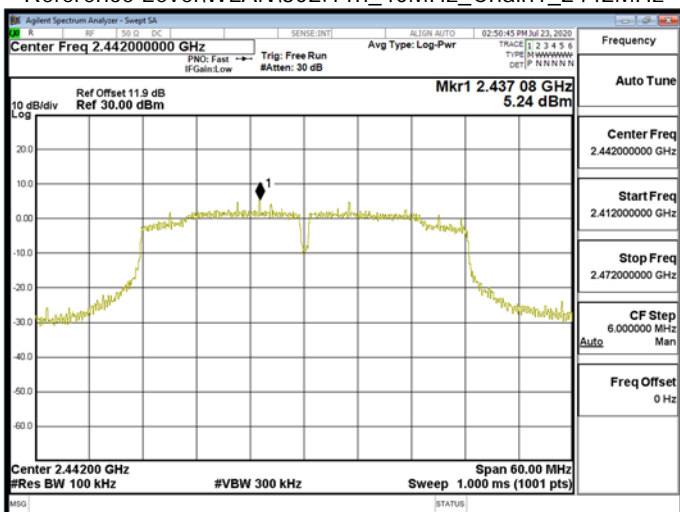
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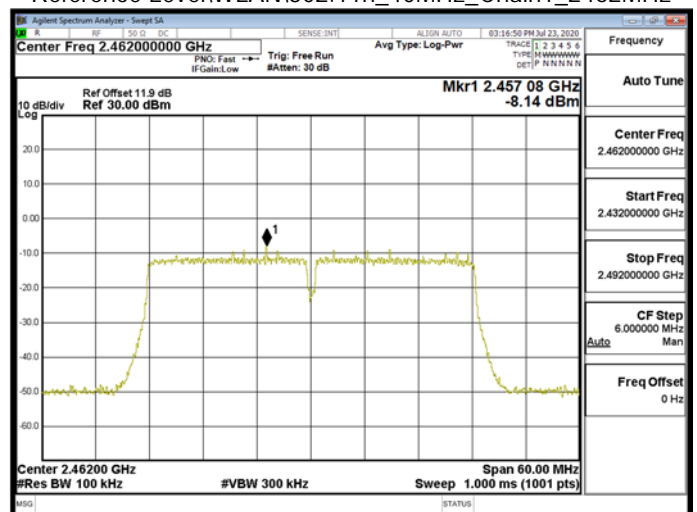
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Reference Level\WLAN\802.11n_40MHz_Chain1_2442MHz



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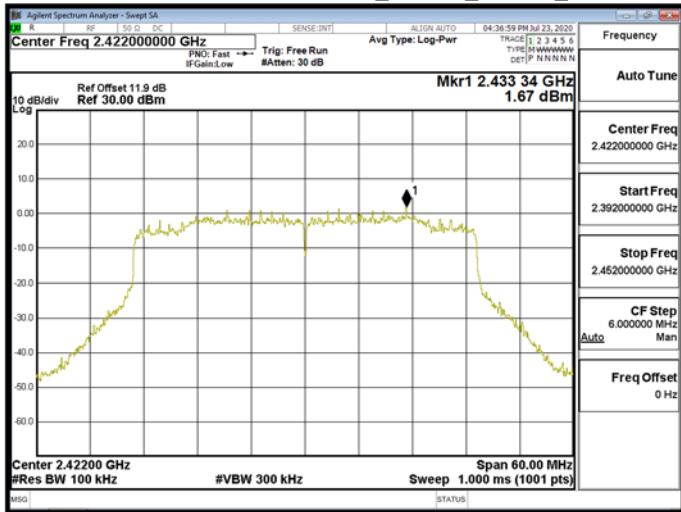


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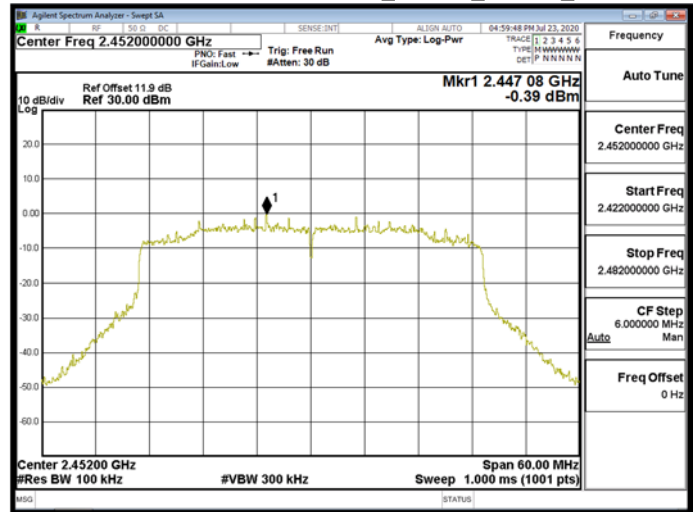
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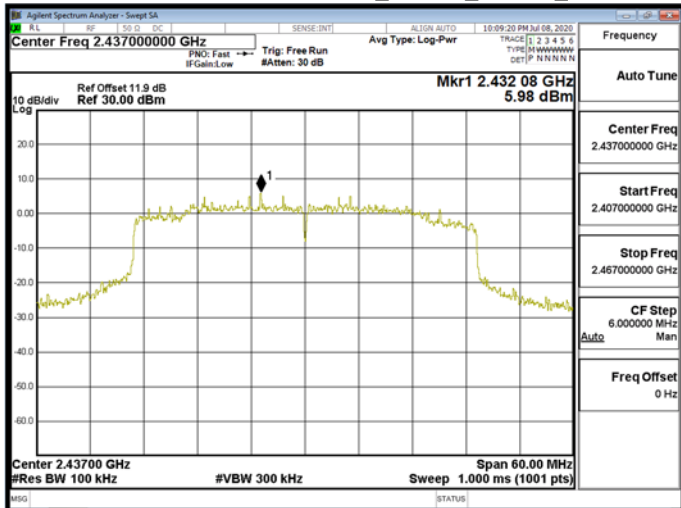
Reference Level\WLAN\802.11ax_40MHz_Chain1_2422MHz



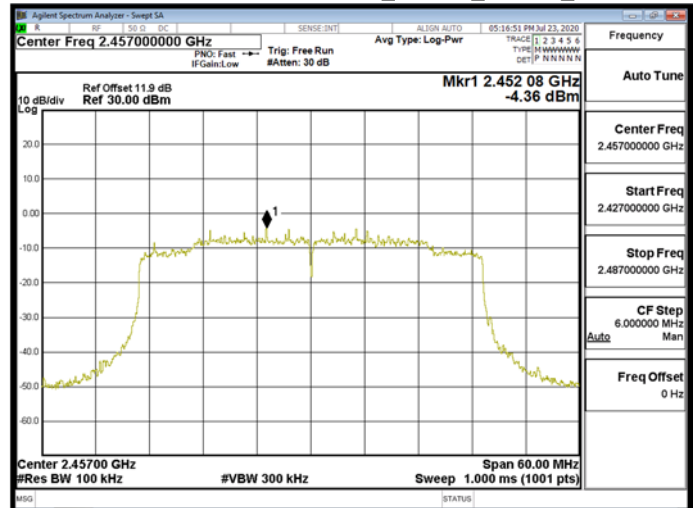
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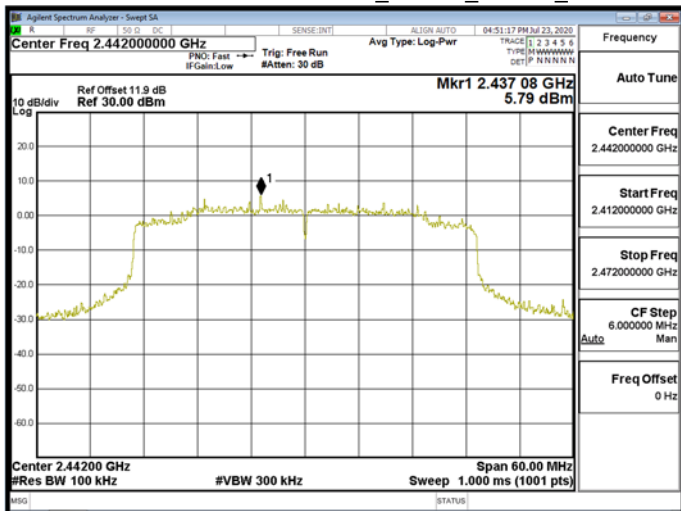
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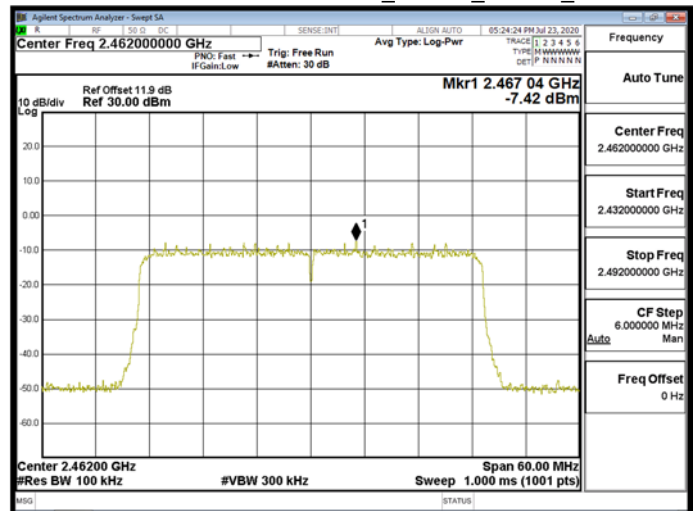
Reference Level\WLAN\802.11ax_40MHz_Chain1_2457MHz



Reference Level\WLAN\802.11ax_40MHz_Chain1_2442MHz



Reference Level\WLAN\802.11ax_40MHz_Chain1_2462MHz



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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