

SPURIOUS CONDUCTED EMISSIONS



XMIT 2019.09.05

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Cal. Due
Power Supply	Kikusui	PWR401ML	TQL	NCR	NCR
Generator - Signal	Agilent	E4422B	TGQ	15-Mar-18	15-Mar-21
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFN	23-Dec-19	23-Dec-20
Block - DC	Fairview Microwave	SD3379	AMI	6-Aug-19	6-Aug-20
Attenuator	S.M. Electronics	SA26B-20	TZP	9-Nov-19	9-Nov-20
Cable	Micro-Coax	UFD150A-1-0720-200200	MNL	15-Sep-19	15-Sep-20

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The spurious RF conducted emissions were measured with the EUT set to low, medium and high transmit frequencies. The EUT was transmitting at the data rate(s) listed in the datasheet. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

SPURIOUS CONDUCTED EMISSIONS



EUT: C2-03CPU		Work Order: KOYO0001				
Serial Number: N/A		Date: 25-Feb-20				
Customer: Koyo Electronics Industries Co., LTD		Temperature: 22.6 °C				
Attendees: None		Humidity: 26.5% RH				
Project: None		Barometric Pres.: 1028 mbar				
Tested by: Andrew Rogstad		Job Site: MN08				
Power: 24VDC						
TEST SPECIFICATIONS		Test Method				
FCC 15.247:2020		ANSI C63.10:2013				
COMMENTS						
Reference level offset includes measurement cable, DC block, and 20 dB attenuator.						
DEVIATIONS FROM TEST STANDARD						
None						
Configuration #	17	Signature 				
		Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
2400 MHz - 2483.5 MHz Band						
20 MHz Bandwidth						
802.11(b) 1 Mbps						
Low Channel 1, 2412 MHz		Fundamental	2414.57	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	4824.05	-53.97	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	24059.94	-61.26	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2439.56	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	4872.76	-53.32	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	24005.01	-60.98	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2464.57	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	4924.52	-54.04	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	24085.89	-61.06	-30	Pass
802.11(b) 11 Mbps						
Low Channel 1, 2412 MHz		Fundamental	2410.32	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	4822.52	-51.45	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	24142.35	-60.02	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2435.32	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	4872.76	-52.57	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	24040.11	-58.55	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2460.32	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	4923	-53.5	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	23637.22	-59.77	-30	Pass
802.11(g) 6 Mbps						
Low Channel 1, 2412 MHz		Fundamental	2418.85	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	2386.68	-48.14	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	23896.65	-53.29	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2443.85	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	4875.81	-48.69	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	24093.52	-54.44	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2468.85	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	3283.37	-50.02	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	24015.69	-53.45	-30	Pass
802.11(g) 36 Mbps						
Low Channel 1, 2412 MHz		Fundamental	2407.56	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	3216.39	-48.05	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	24426.2	-53.88	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2432.57	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	3249.88	-48.41	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	23690.64	-53.29	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2457.56	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	3283.37	-49	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	24034	-52.68	-30	Pass
802.11(g) 54 Mbps						
Low Channel 1, 2412 MHz		Fundamental	2406.38	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	3216.39	-43.77	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	24087.41	-52.22	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2431.38	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	3249.88	-45.06	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	23901.23	-50.71	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2461.65	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	3283.37	-46.69	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	19443.6	-51.72	-30	Pass
802.11(n) MCS0						
Low Channel 1, 2412 MHz		Fundamental	2411.33	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	3216.39	-49.05	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	23890.55	-54.36	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2436.33	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	4881.9	-49.07	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	24110.3	-55.04	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2461.34	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	3283.37	-50.52	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	24594.07	-53.88	-30	Pass
802.11(n) MCS7						
Low Channel 1, 2412 MHz		Fundamental	2411.33	N/A	N/A	N/A
Low Channel 1, 2412 MHz		30 MHz - 12.5 GHz	3216.39	-41.71	-30	Pass
Low Channel 1, 2412 MHz		12.5 GHz - 25 GHz	24989.32	-49.24	-30	Pass
Mid Channel 6, 2437 MHz		Fundamental	2436.34	N/A	N/A	N/A
Mid Channel 6, 2437 MHz		30 MHz - 12.5 GHz	3249.88	-42.76	-30	Pass
Mid Channel 6, 2437 MHz		12.5 GHz - 25 GHz	23275.55	-50.02	-30	Pass
High Channel 11, 2462 MHz		Fundamental	2457.24	N/A	N/A	N/A
High Channel 11, 2462 MHz		30 MHz - 12.5 GHz	3283.37	-43.58	-30	Pass
High Channel 11, 2462 MHz		12.5 GHz - 25 GHz	24133.2	-49.96	-30	Pass

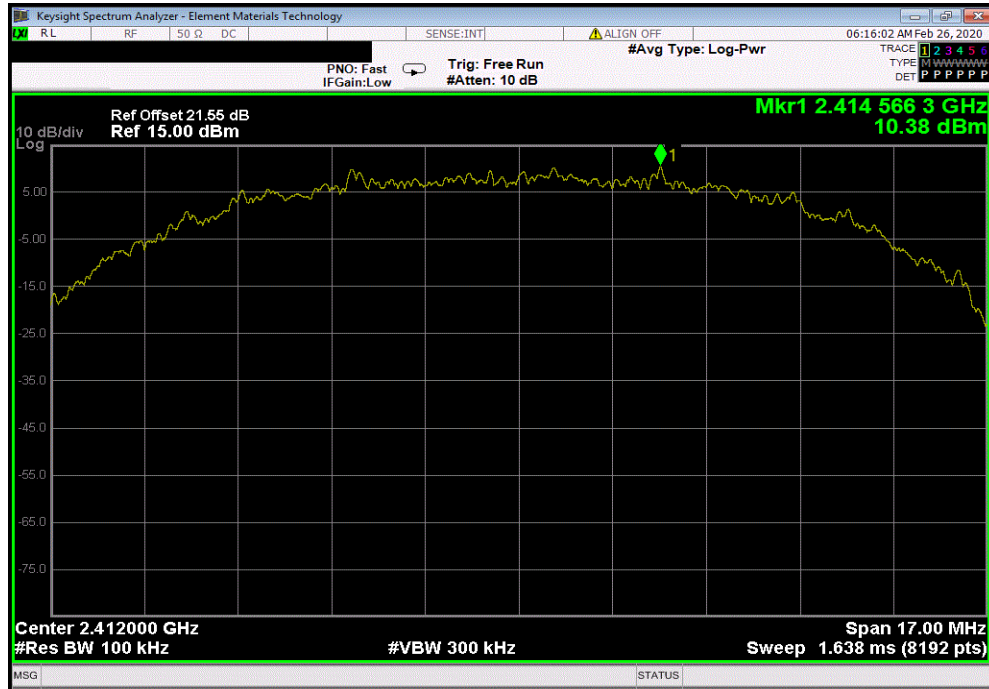
40 MHz Bandwidth						
802.11(n) MCS0						
Low Channel 1/5, 2422 MHz	Fundamental	2413.22	N/A	N/A	N/A	
Low Channel 1/5, 2422 MHz	30 MHz - 12.5 GHz	2377.54	-45.35	-20	Pass	
Low Channel 1/5, 2422 MHz	12.5 GHz - 25 GHz	24894.7	-49.66	-20	Pass	
Mid Channel 4/8, 2437 MHz	Fundamental	2447.6	N/A	N/A	N/A	
Mid Channel 4/8, 2437 MHz	30 MHz - 12.5 GHz	3249.88	-47.72	-20	Pass	
Mid Channel 4/8, 2437 MHz	12.5 GHz - 25 GHz	24913.01	-50.87	-20	Pass	
High Channel 7/11, 2452 MHz	Fundamental	2462.6	N/A	N/A	N/A	
High Channel 7/11, 2452 MHz	30 MHz - 12.5 GHz	3269.67	-46.29	-20	Pass	
High Channel 7/11, 2452 MHz	12.5 GHz - 25 GHz	24146.93	-50.47	-20	Pass	
802.11(n) MCS7						
Low Channel 1/5, 2422 MHz	Fundamental	2424.75	N/A	N/A	N/A	
Low Channel 1/5, 2422 MHz	30 MHz - 12.5 GHz	3228.57	-39.66	-20	Pass	
Low Channel 1/5, 2422 MHz	12.5 GHz - 25 GHz	24937.43	-47.43	-20	Pass	
Mid Channel 4/8, 2437 MHz	Fundamental	2446	N/A	N/A	N/A	
Mid Channel 4/8, 2437 MHz	30 MHz - 12.5 GHz	3249.88	-40.37	-20	Pass	
Mid Channel 4/8, 2437 MHz	12.5 GHz - 25 GHz	24180.5	-46.5	-20	Pass	
High Channel 7/11, 2452 MHz	Fundamental	2461.02	N/A	N/A	N/A	
High Channel 7/11, 2452 MHz	30 MHz - 12.5 GHz	3269.67	-41.02	-20	Pass	
High Channel 7/11, 2452 MHz	12.5 GHz - 25 GHz	20424.86	-47.5	-20	Pass	

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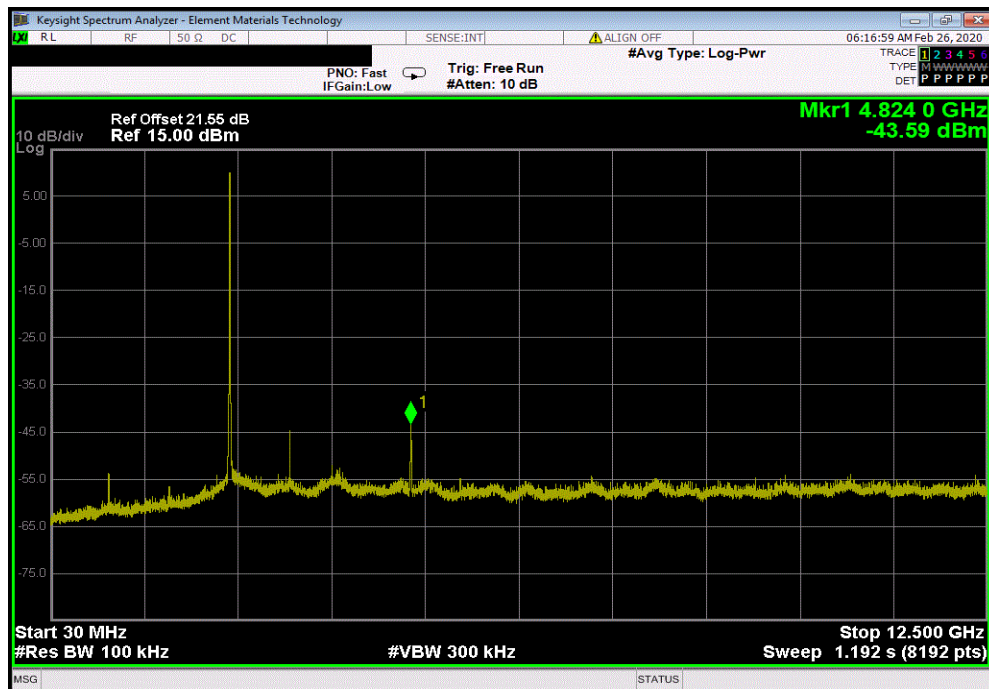


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2414.57	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4824.05	-53.97	-30	Pass		

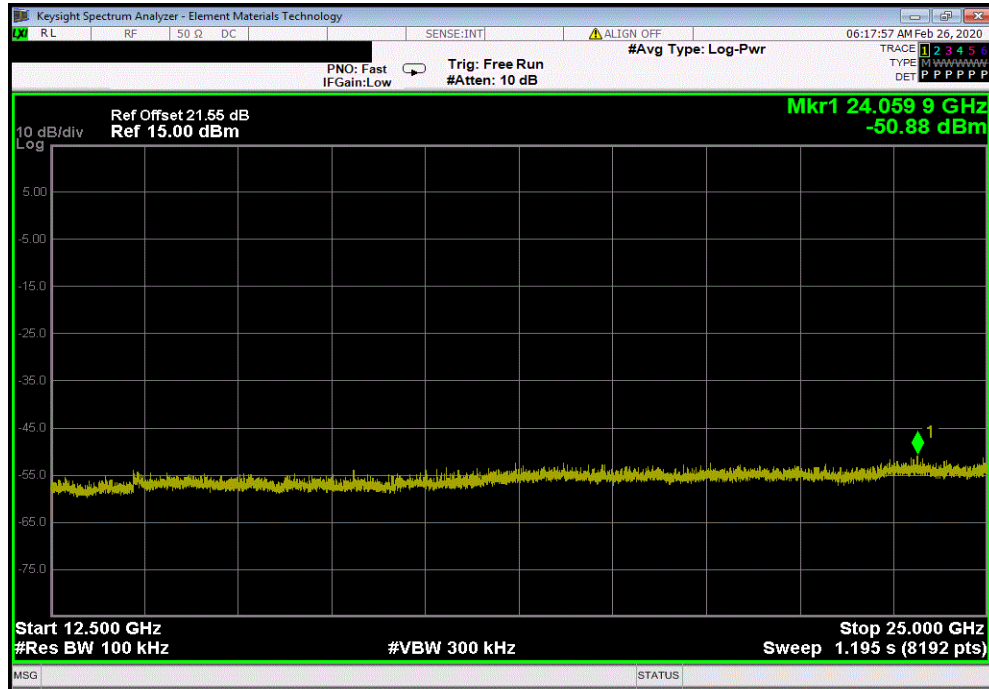


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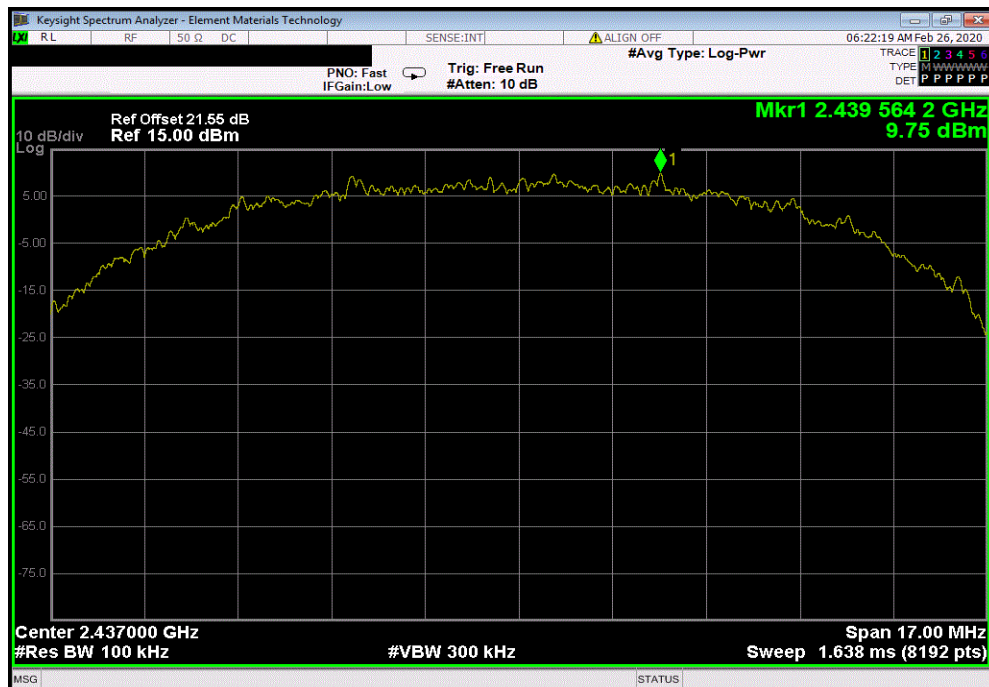


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24059.94	-61.26	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2439.56	N/A	N/A	N/A	

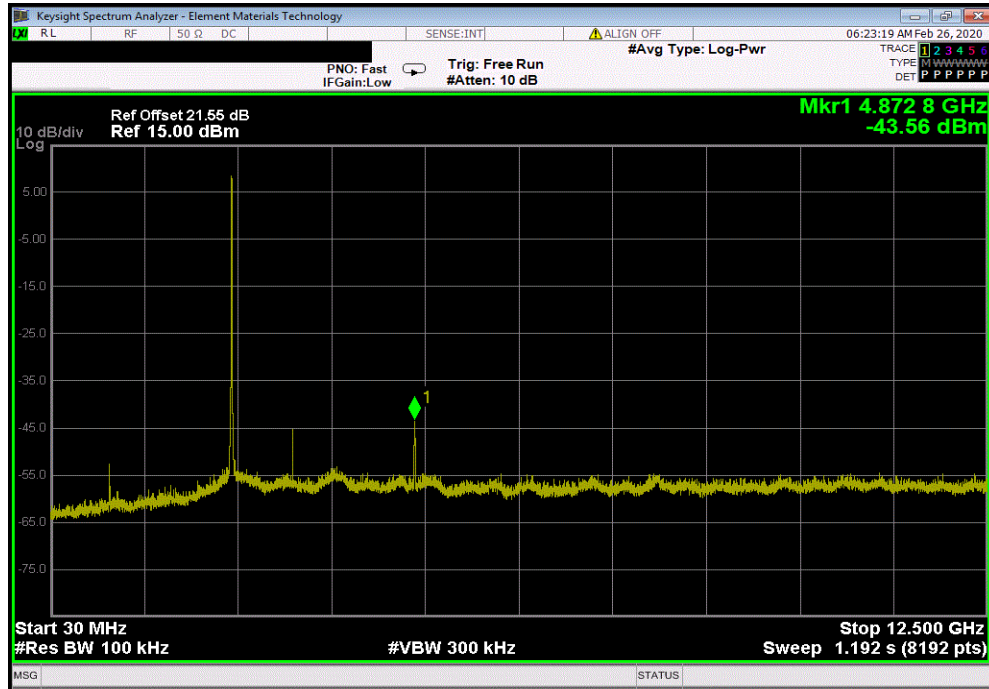


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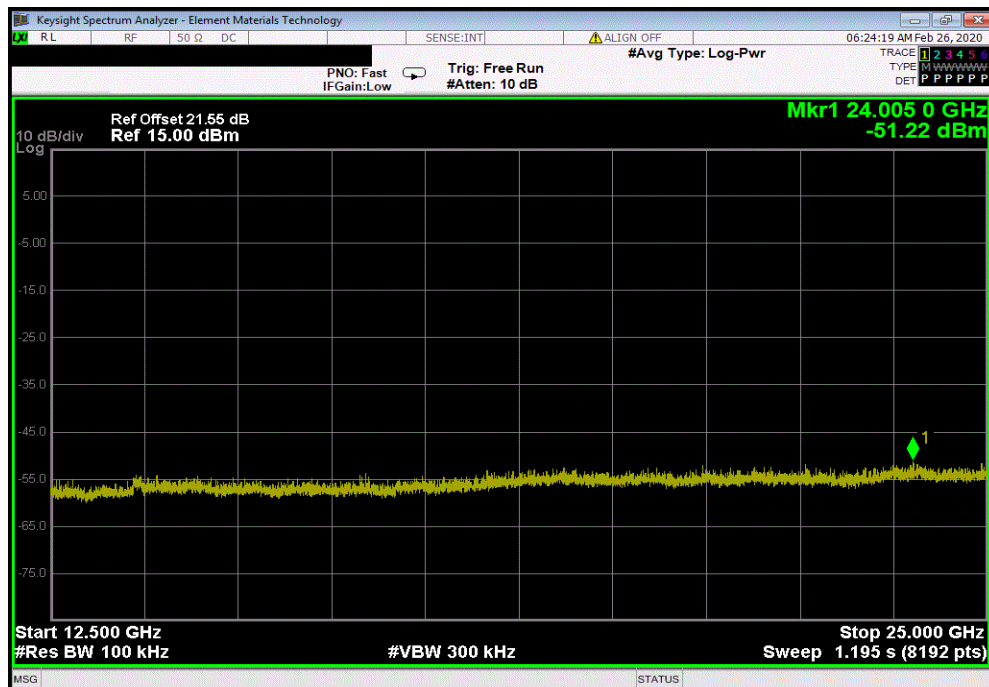


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4872.76	-53.32	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24005.01	-60.98	-30	Pass	

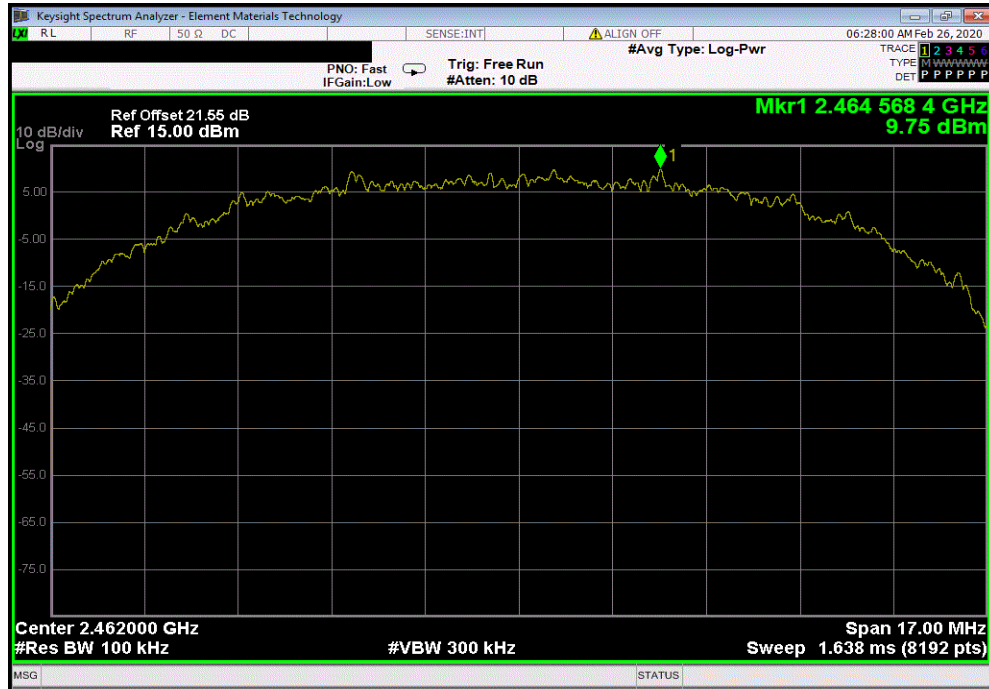


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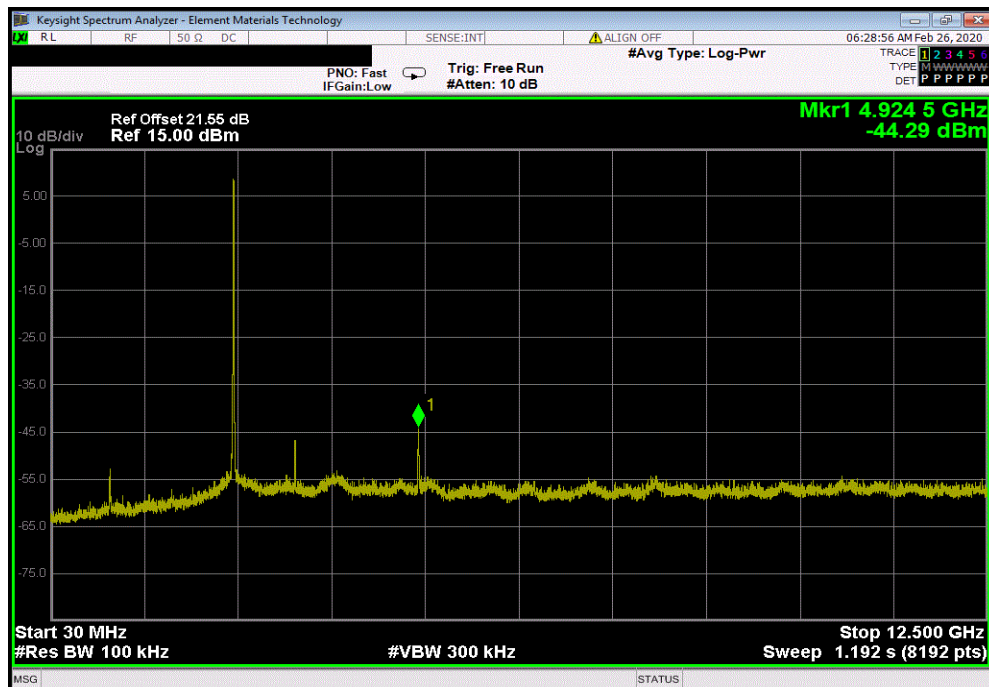


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2464.57	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4924.52	-54.04	-30	Pass		

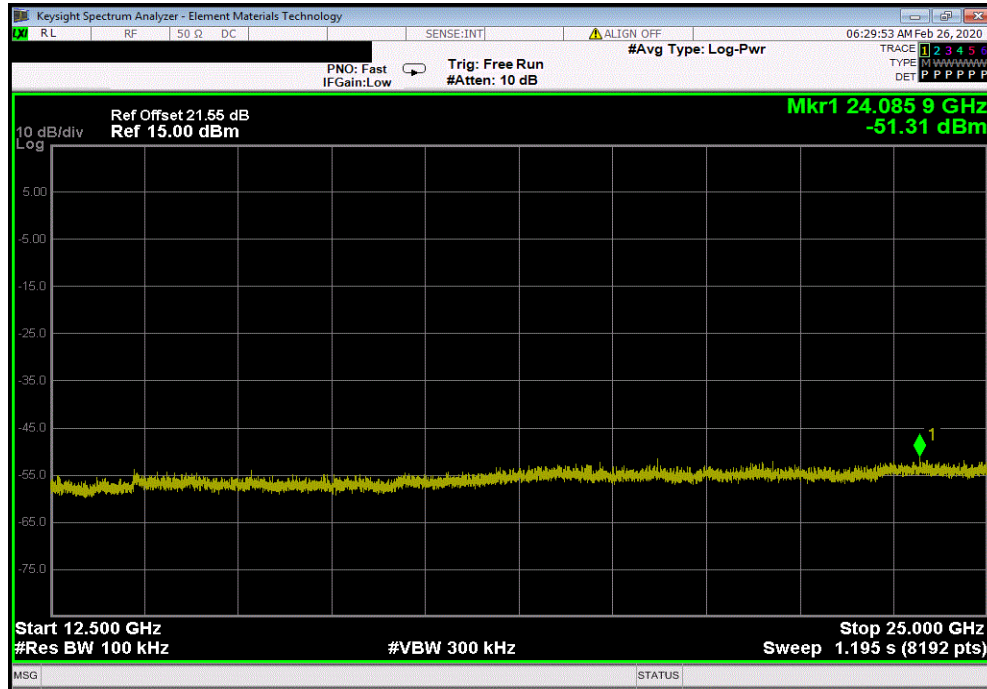


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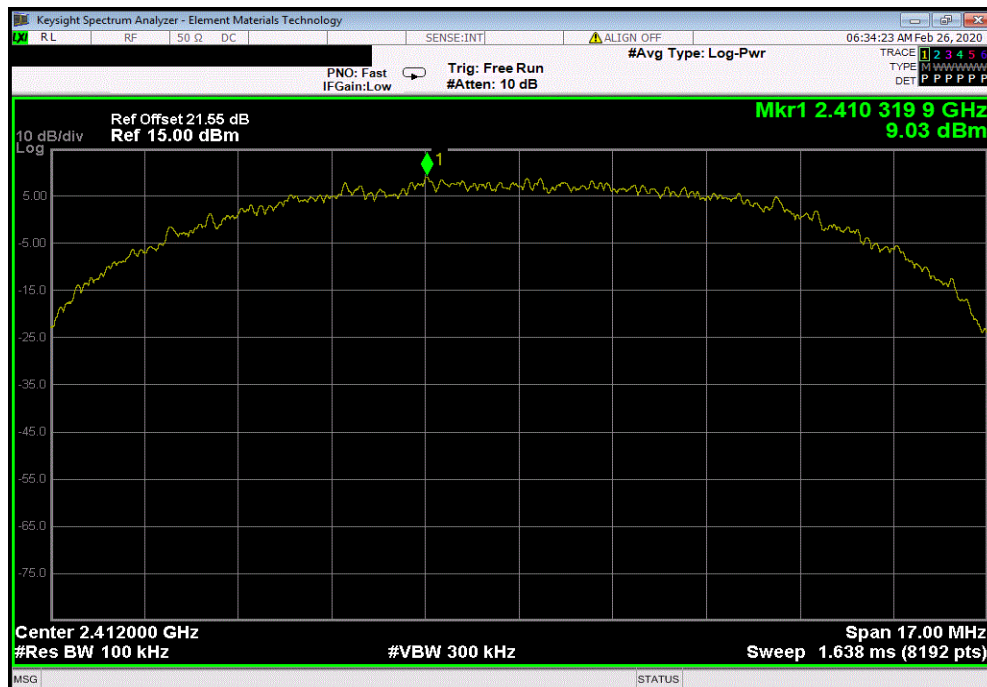


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24085.89	-61.06	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2410.32	N/A	N/A	N/A	

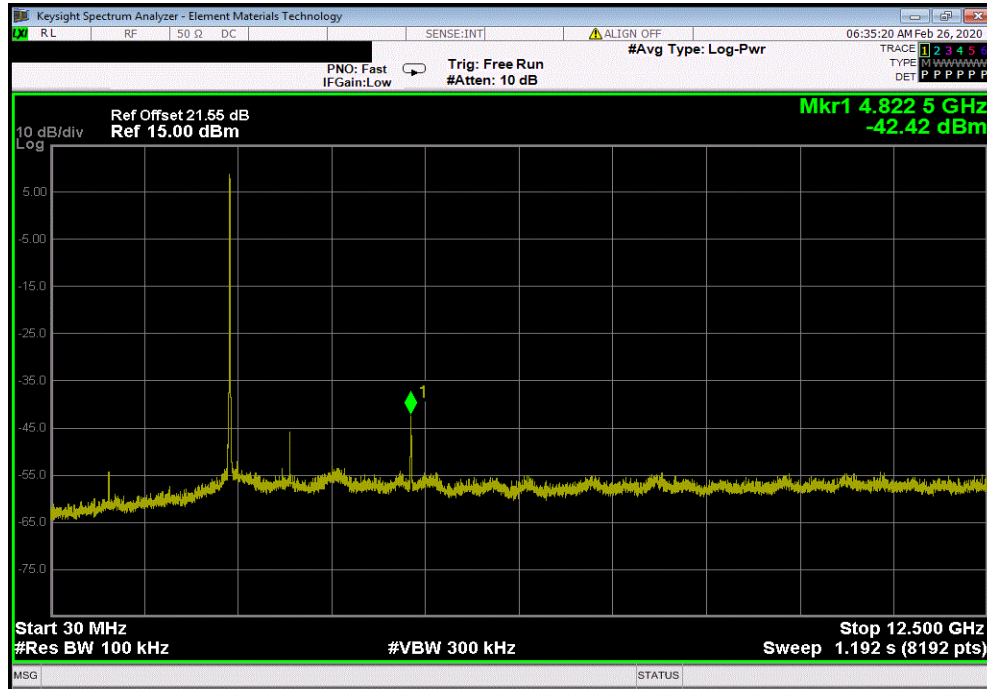


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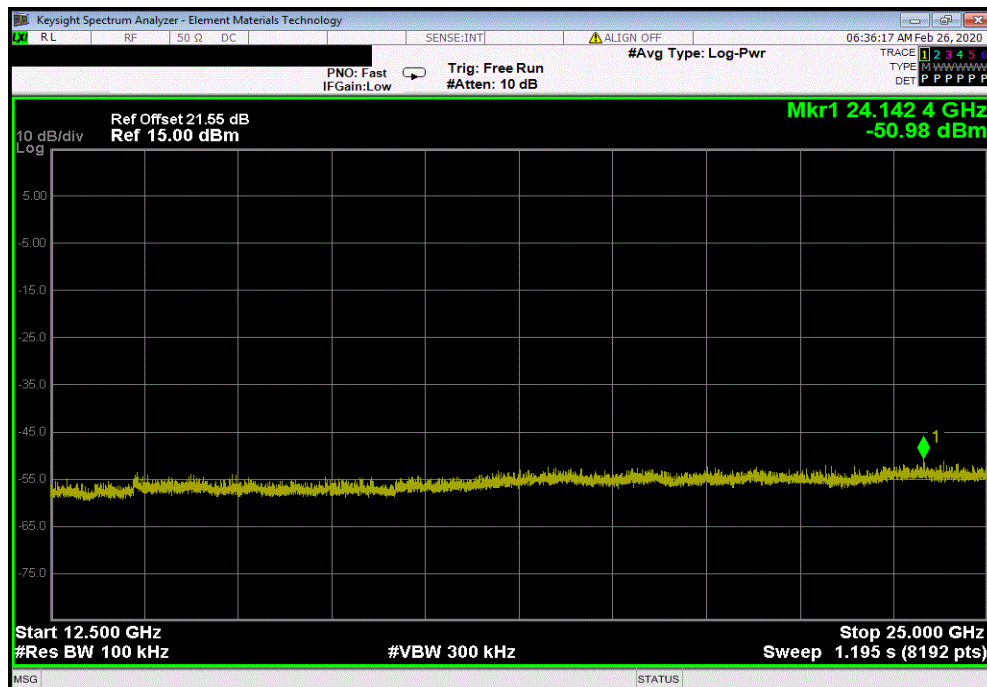


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4822.52	-51.45	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24142.35	-60.02	-30	Pass	

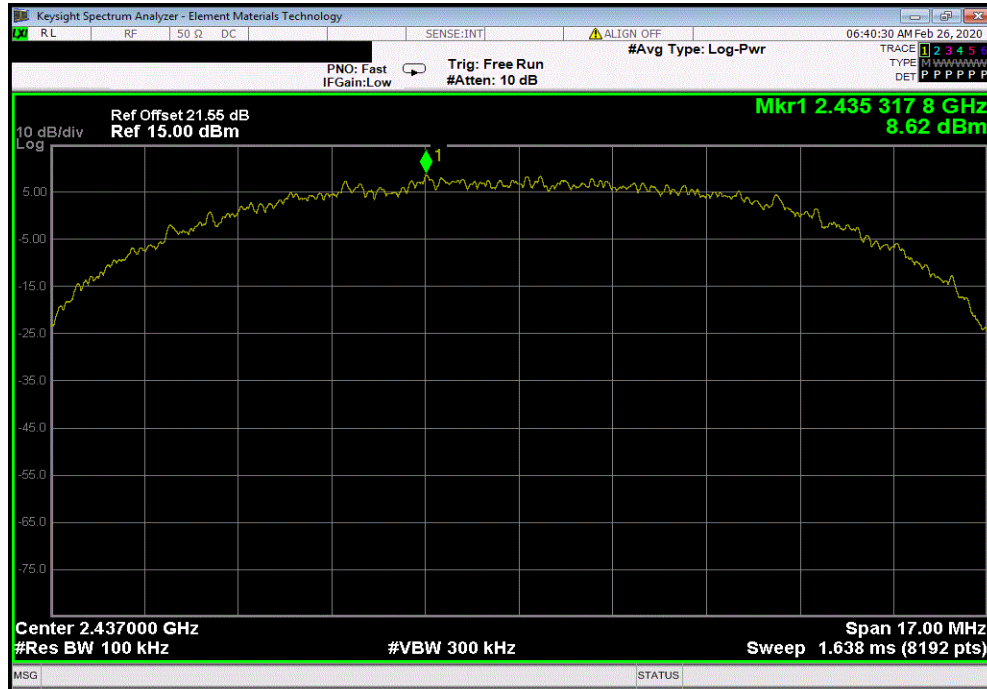


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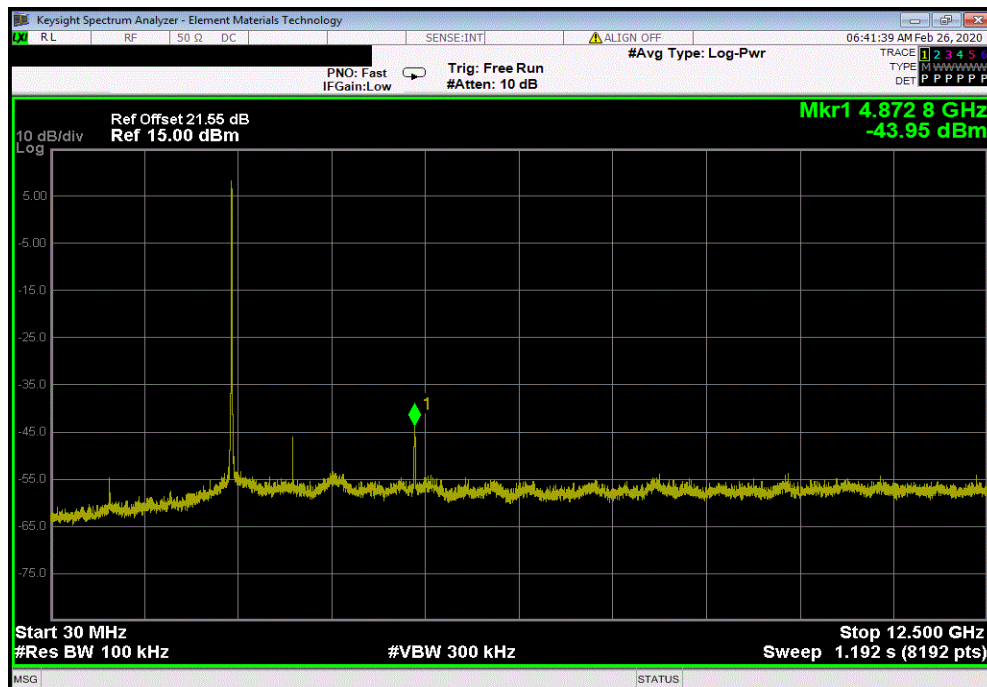


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2435.32	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4872.76	-52.57	-30	Pass		

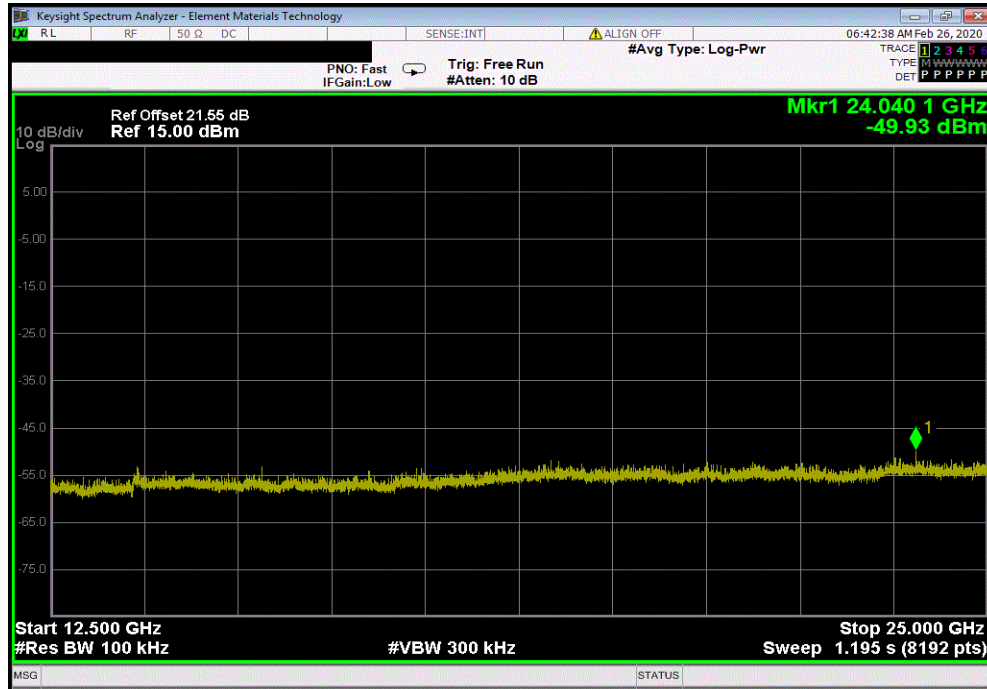


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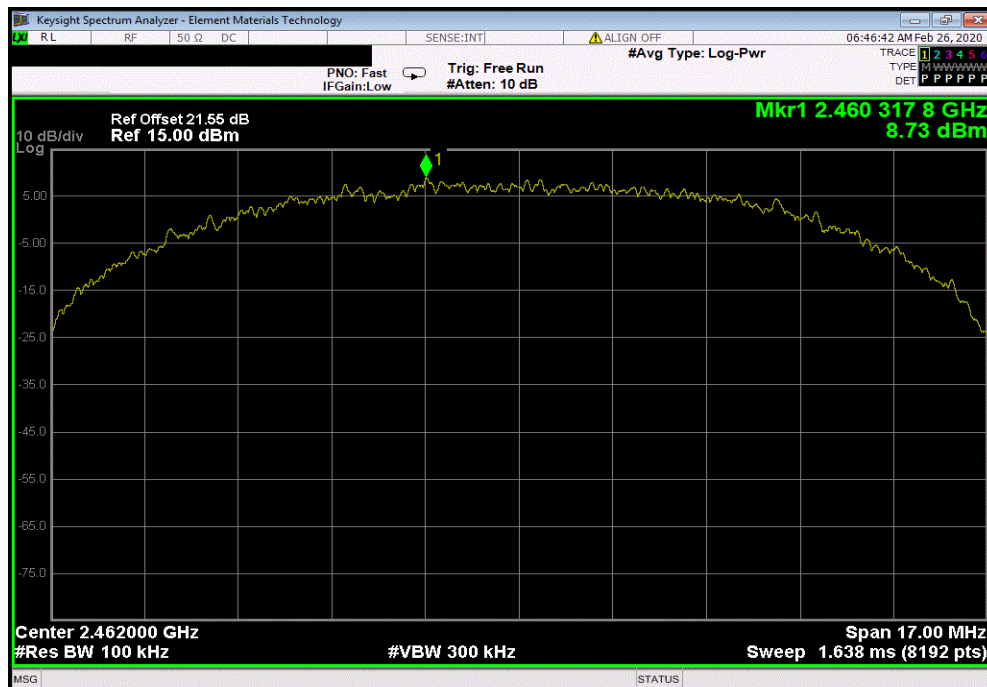


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24040.11	-58.55	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2460.32	N/A	N/A	N/A	

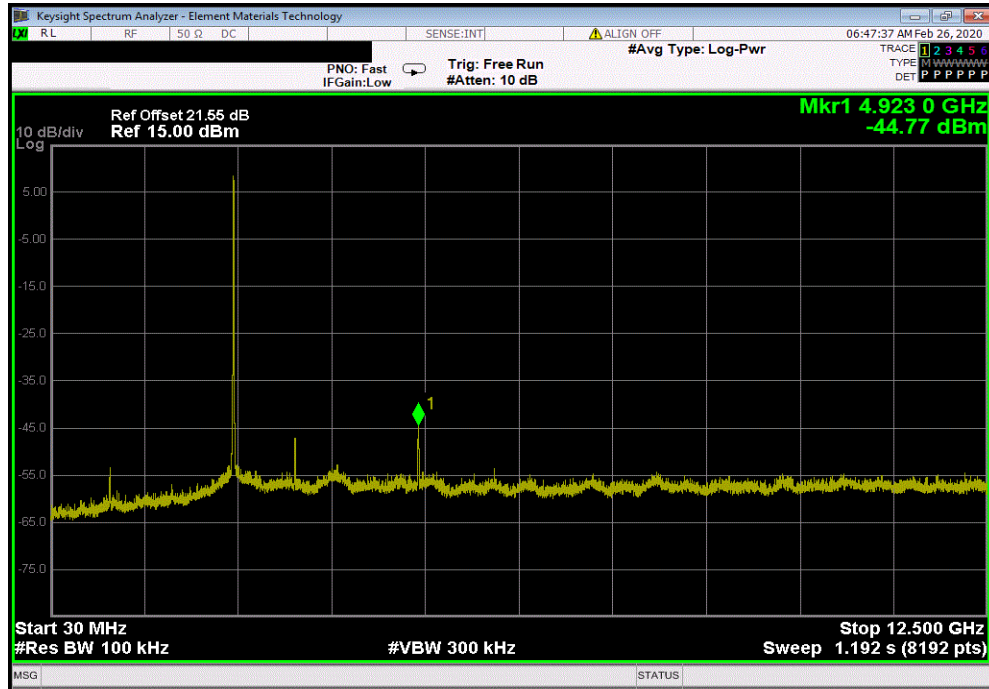


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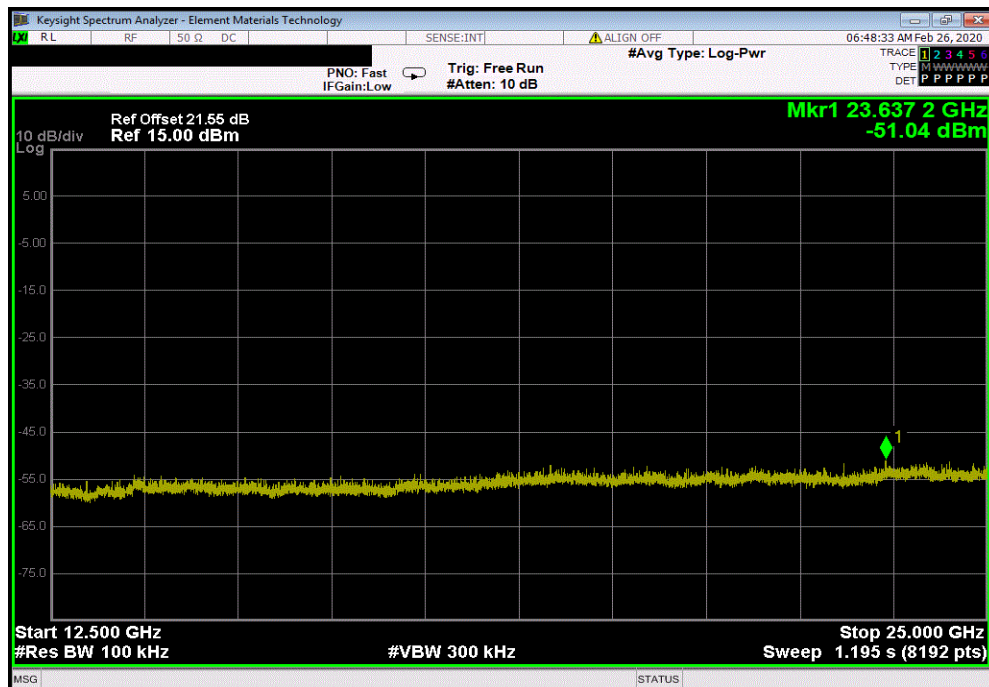


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4923	-53.5	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23637.22	-59.77	-30	Pass	

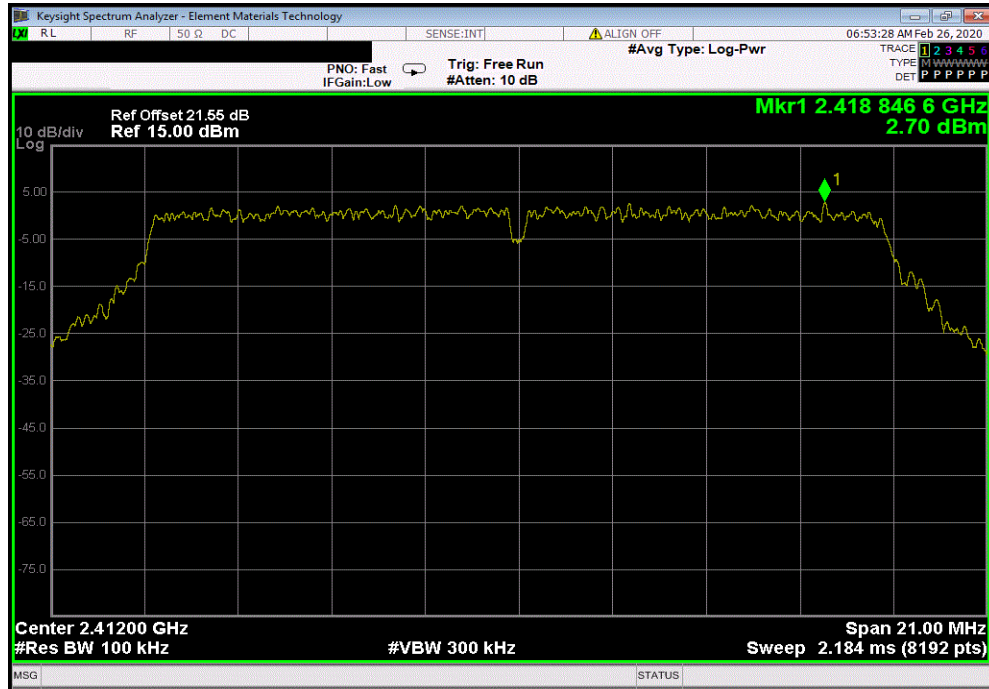


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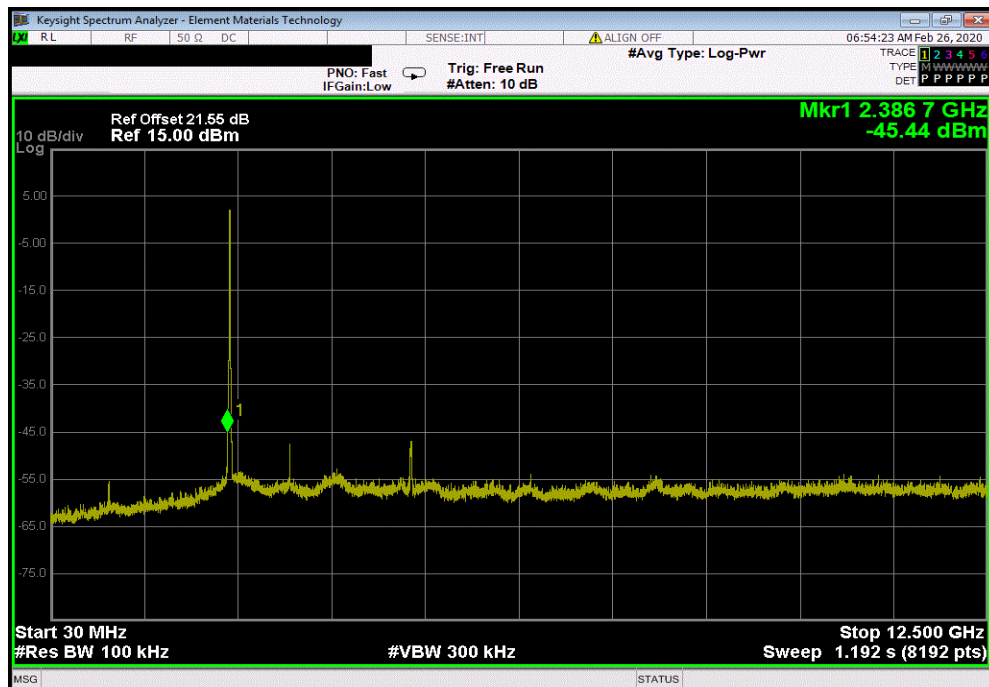


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2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2418.85	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	2386.68	-48.14	-30	Pass		

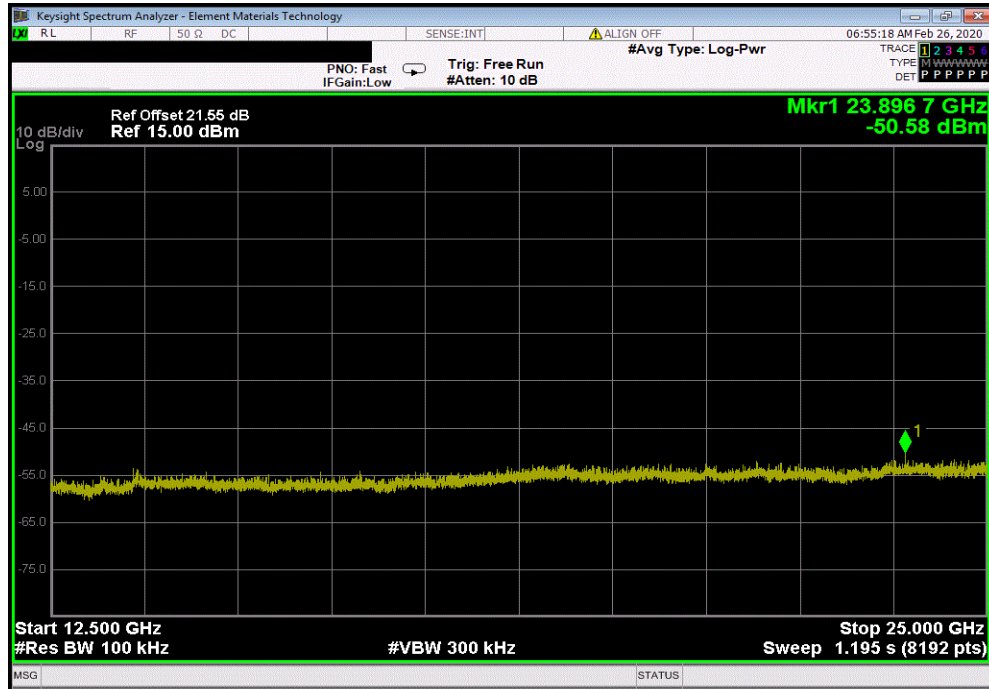


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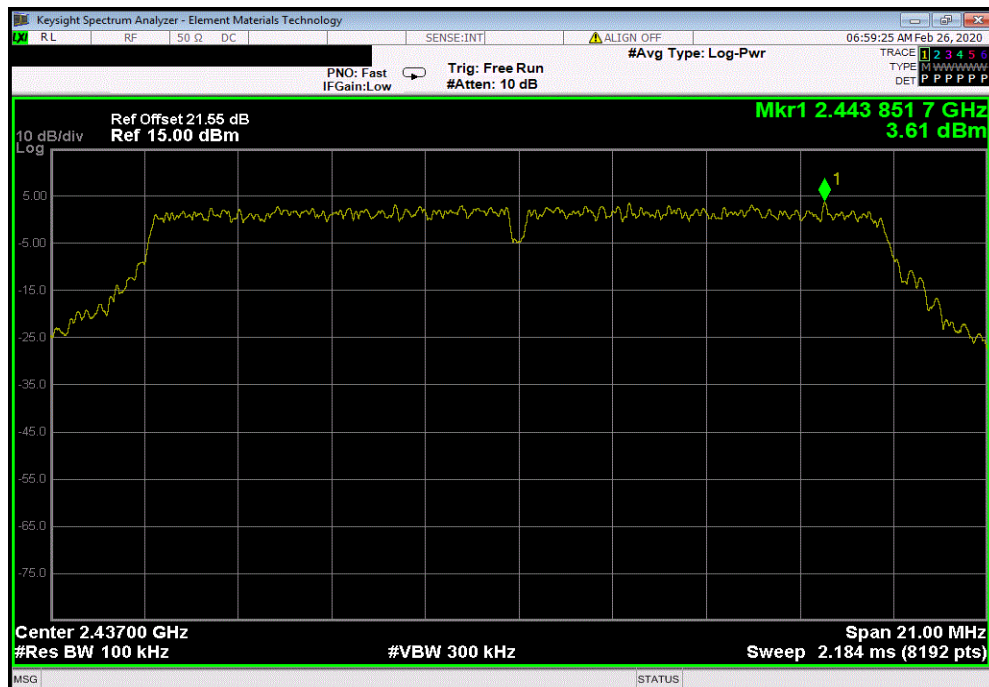


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23896.65	-53.29	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2443.85	N/A	N/A	N/A	

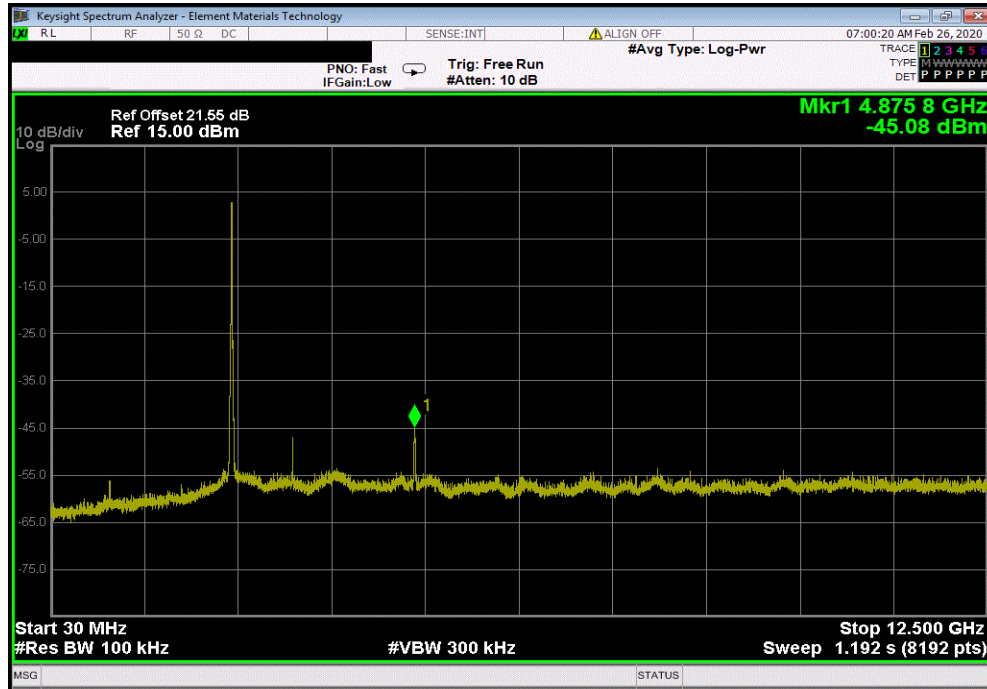


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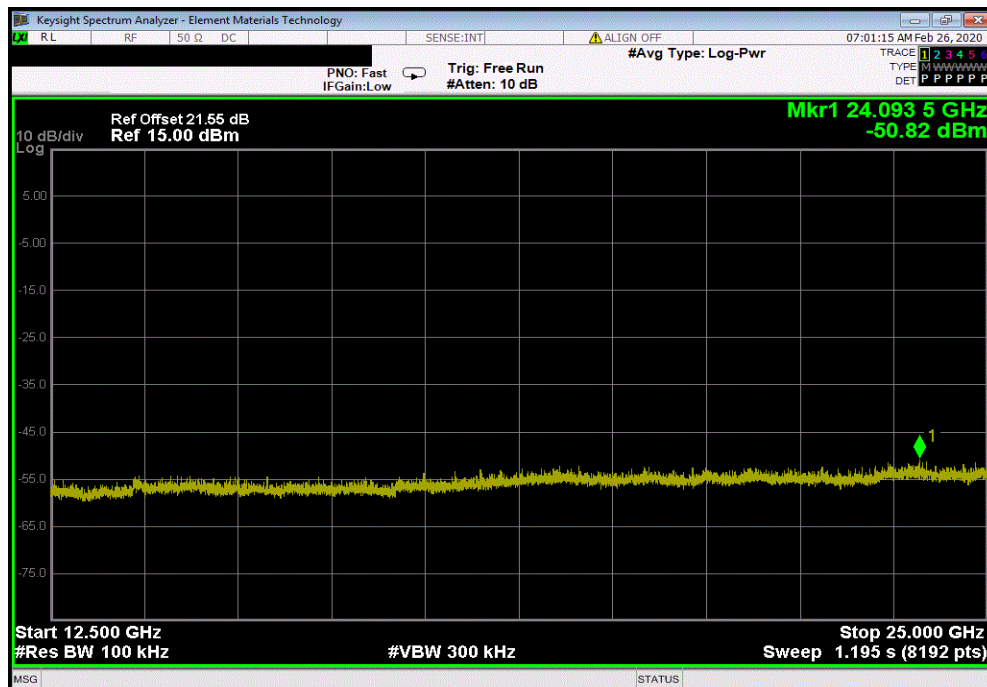


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	4875.81	-48.69	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24093.52	-54.44	-30	Pass	

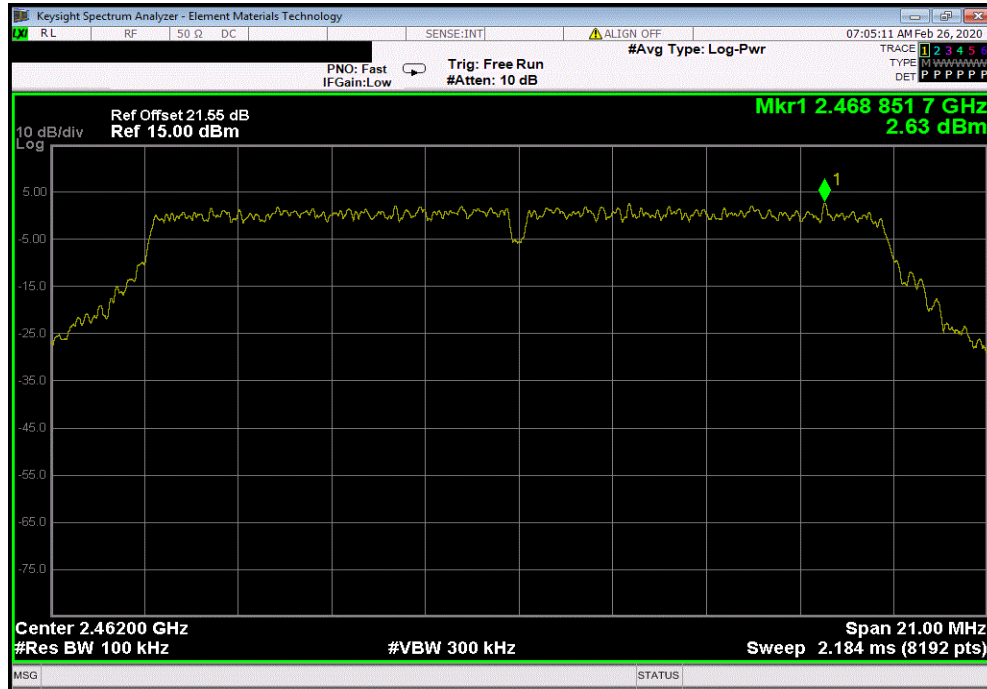


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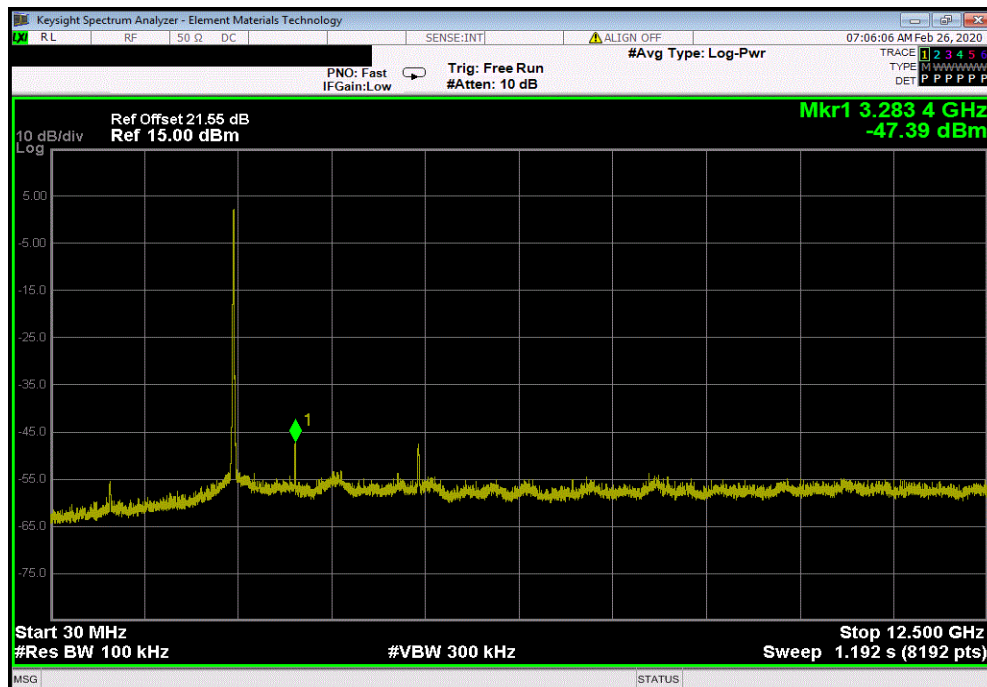


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2468.85	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3283.37	-50.02	-30	Pass		

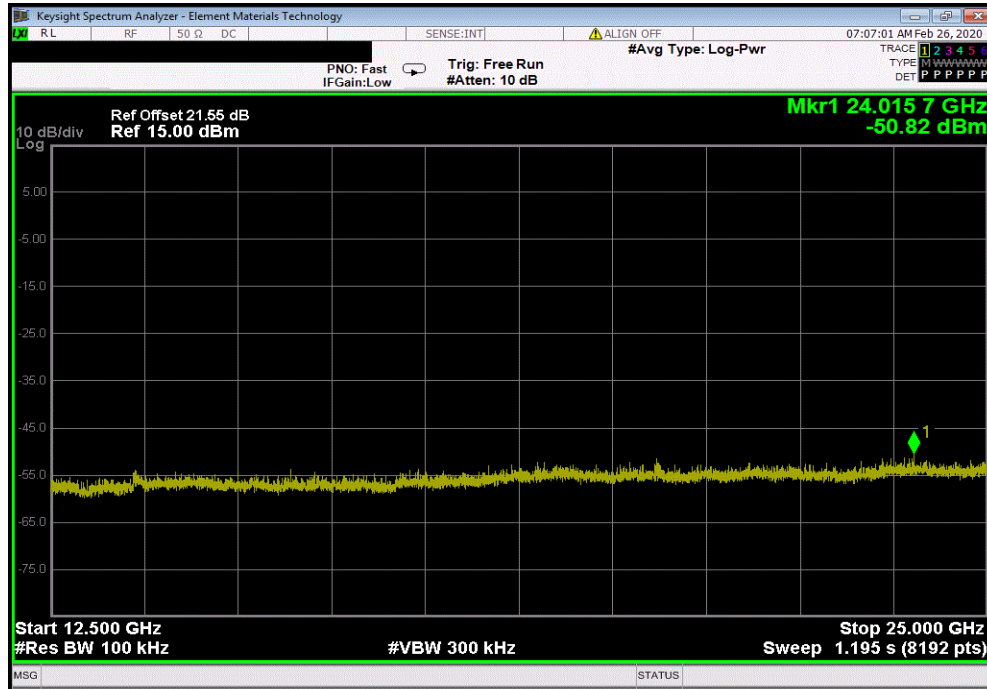


SPURIOUS CONDUCTED EMISSIONS

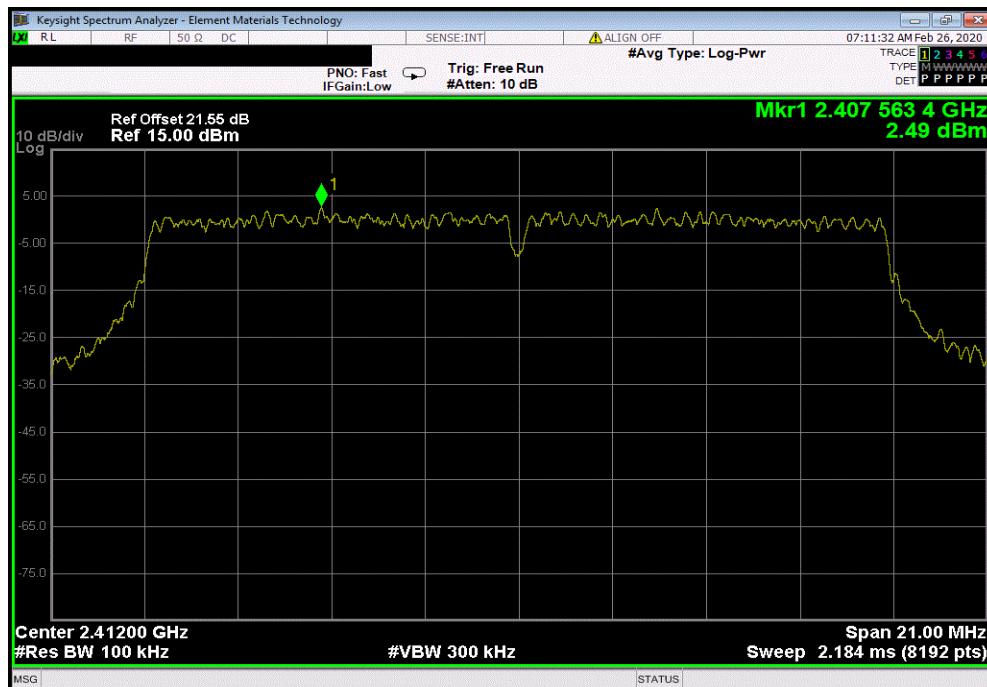


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24015.69	-53.45	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2407.56	N/A	N/A	N/A	

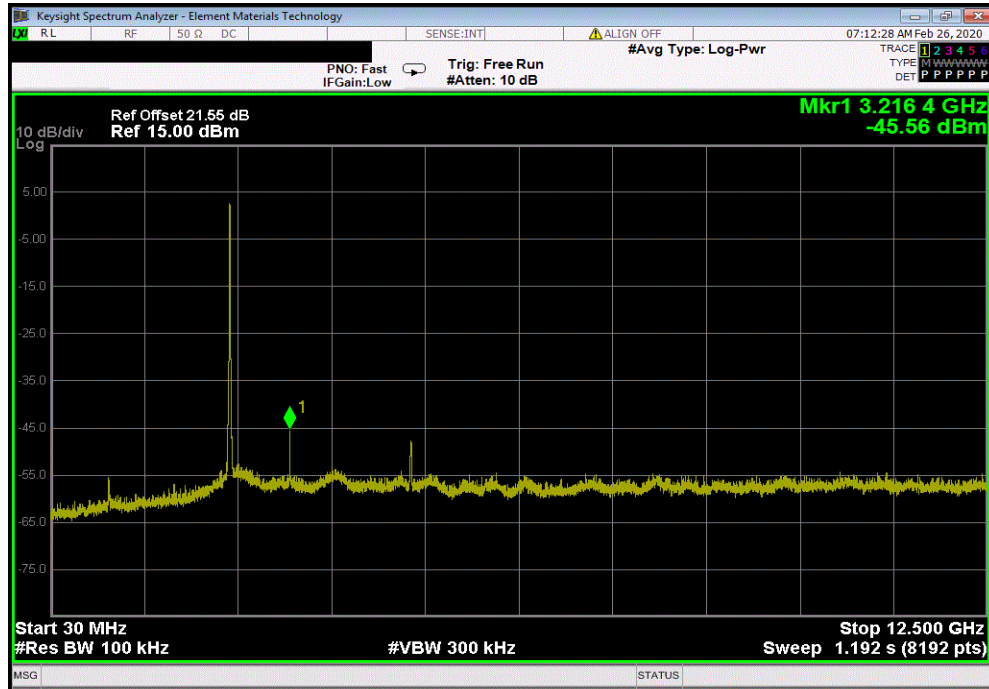


SPURIOUS CONDUCTED EMISSIONS

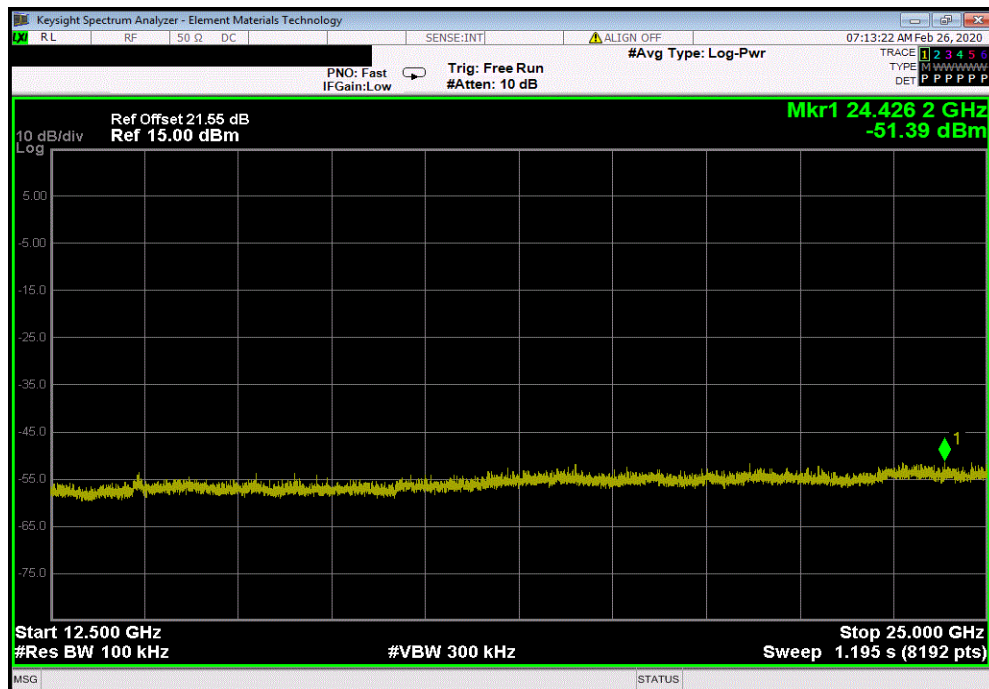


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3216.39	-48.05	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24426.2	-53.88	-30	Pass	

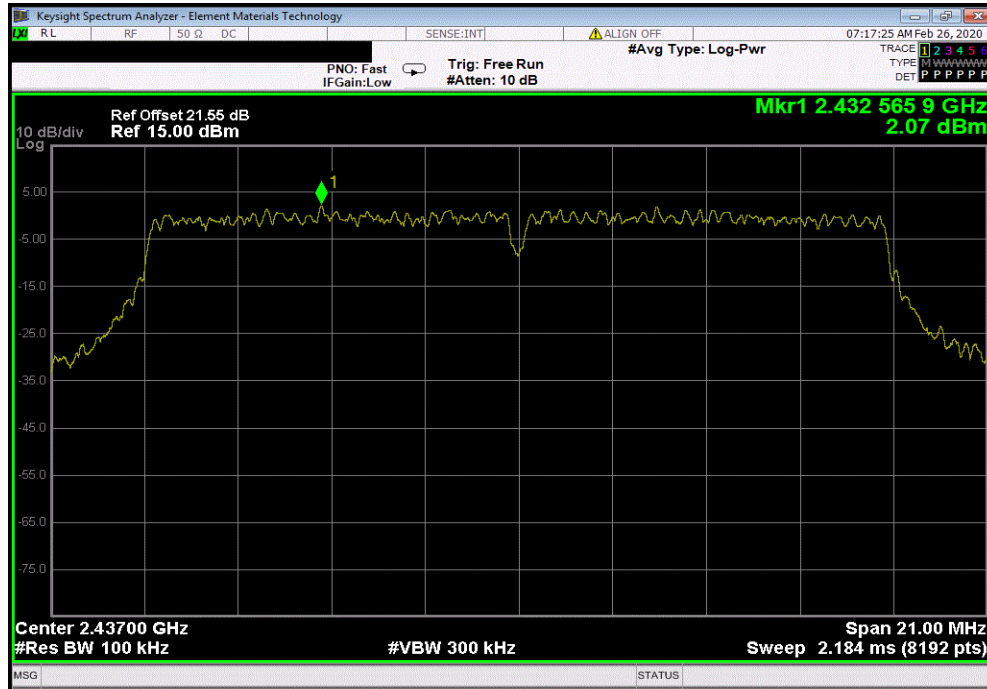


SPURIOUS CONDUCTED EMISSIONS

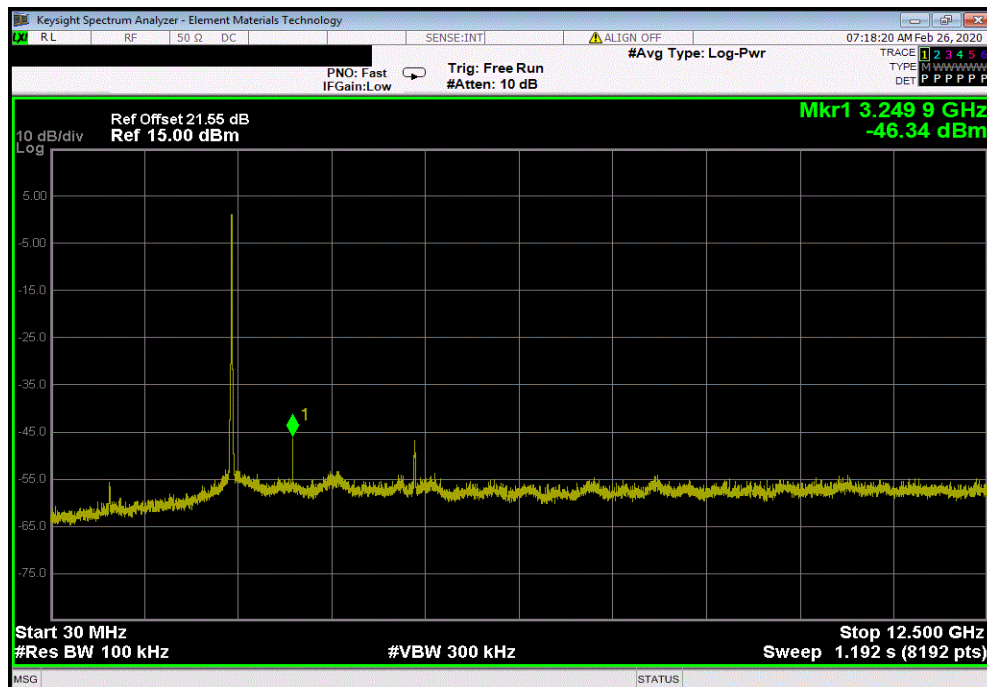


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2432.57	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3249.88	-48.41	-30	Pass		

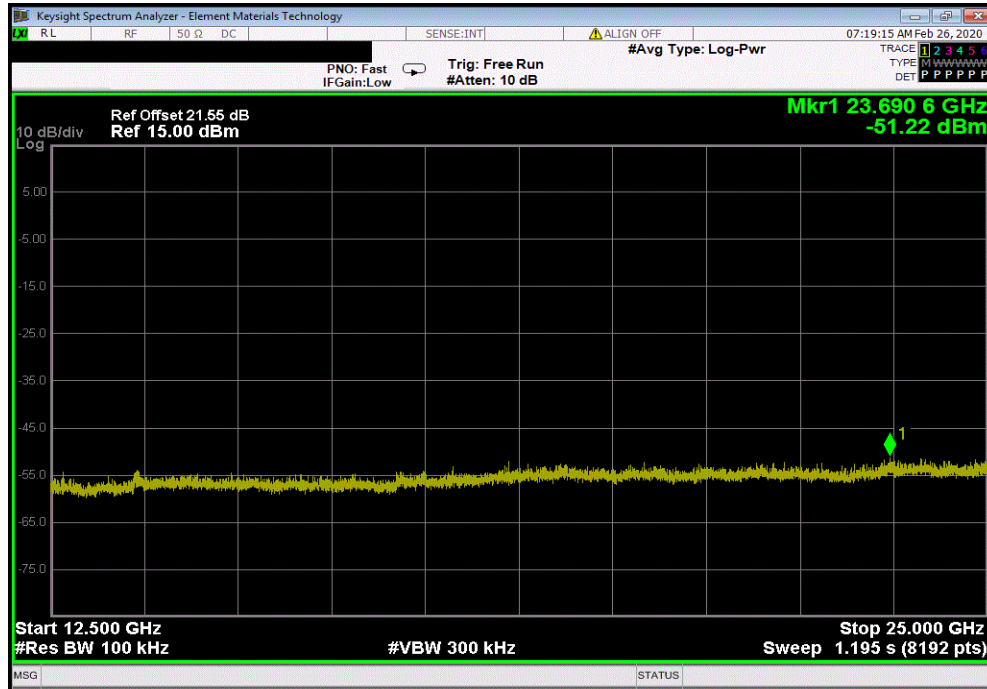


SPURIOUS CONDUCTED EMISSIONS

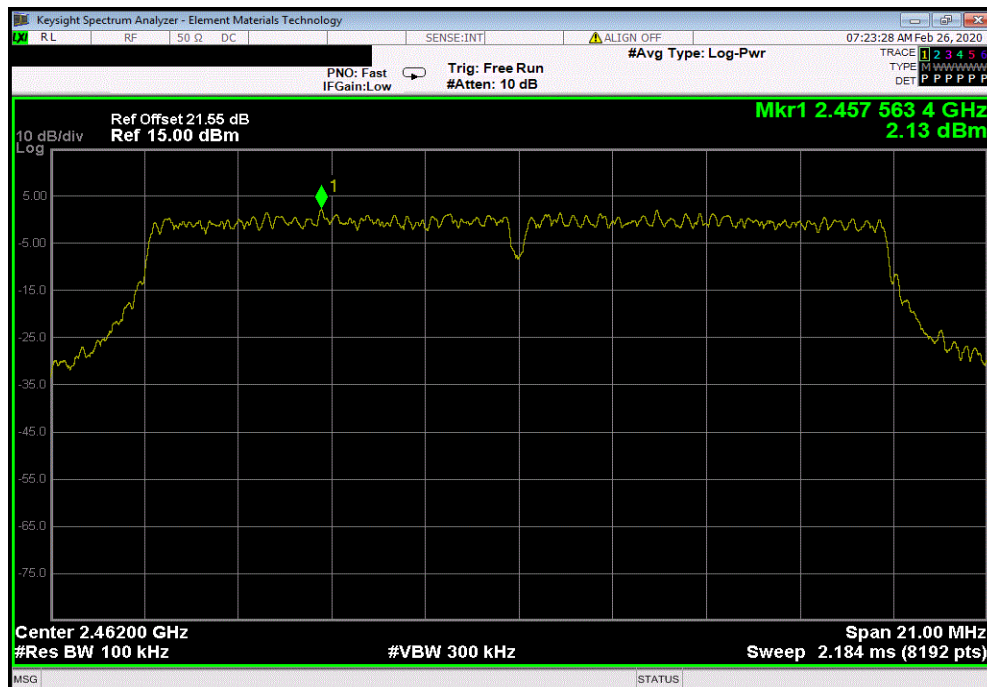


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23690.64	-53.29	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2457.56	N/A	N/A	N/A	

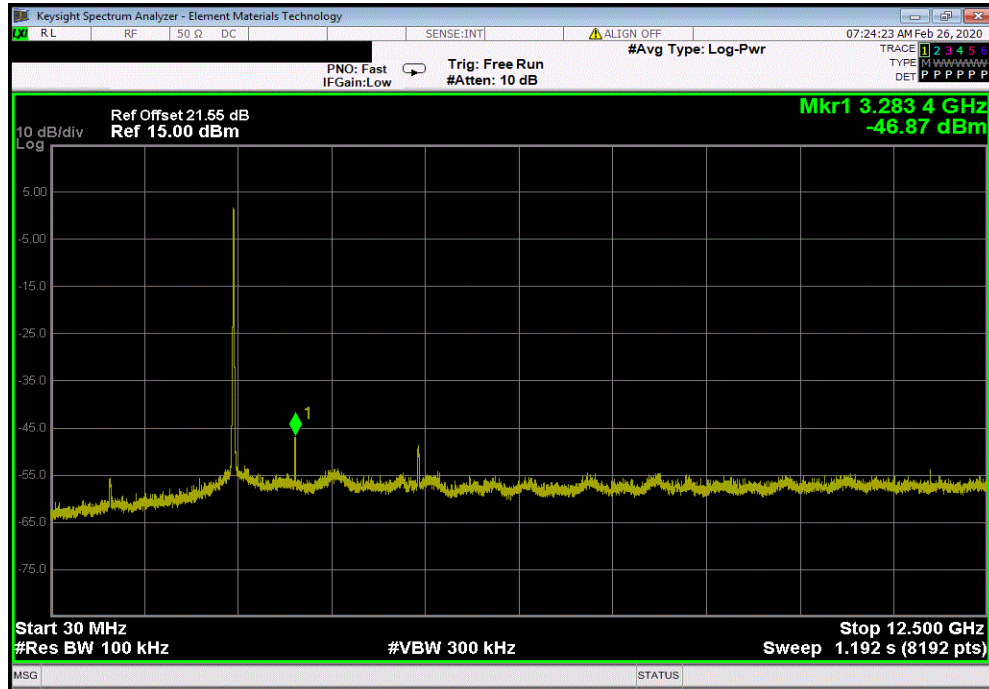


SPURIOUS CONDUCTED EMISSIONS

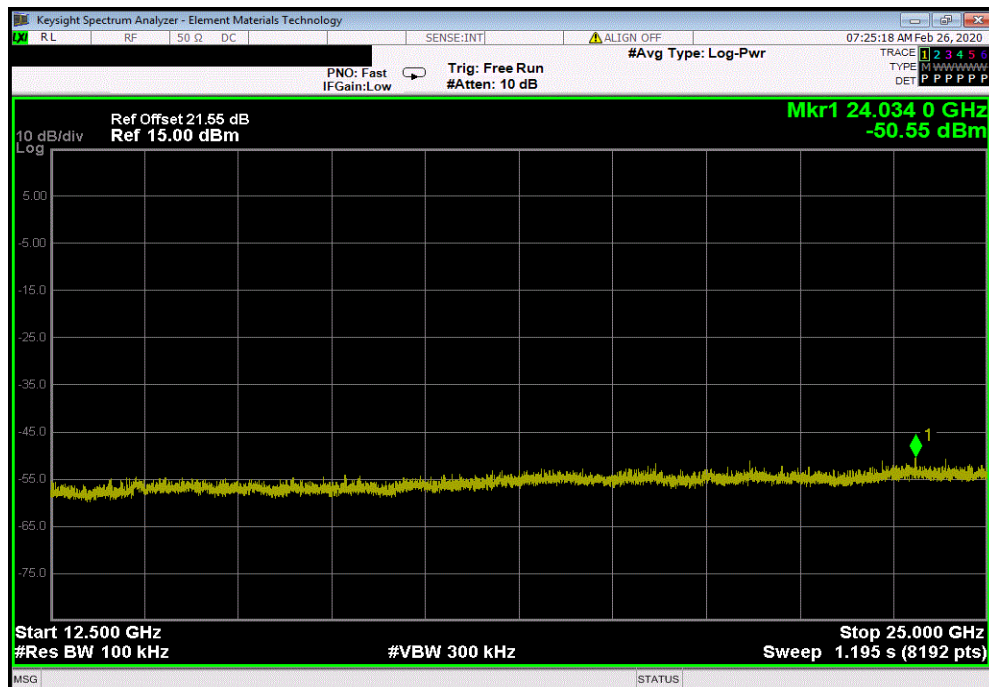


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3283.37	-49	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24034	-52.68	-30	Pass	

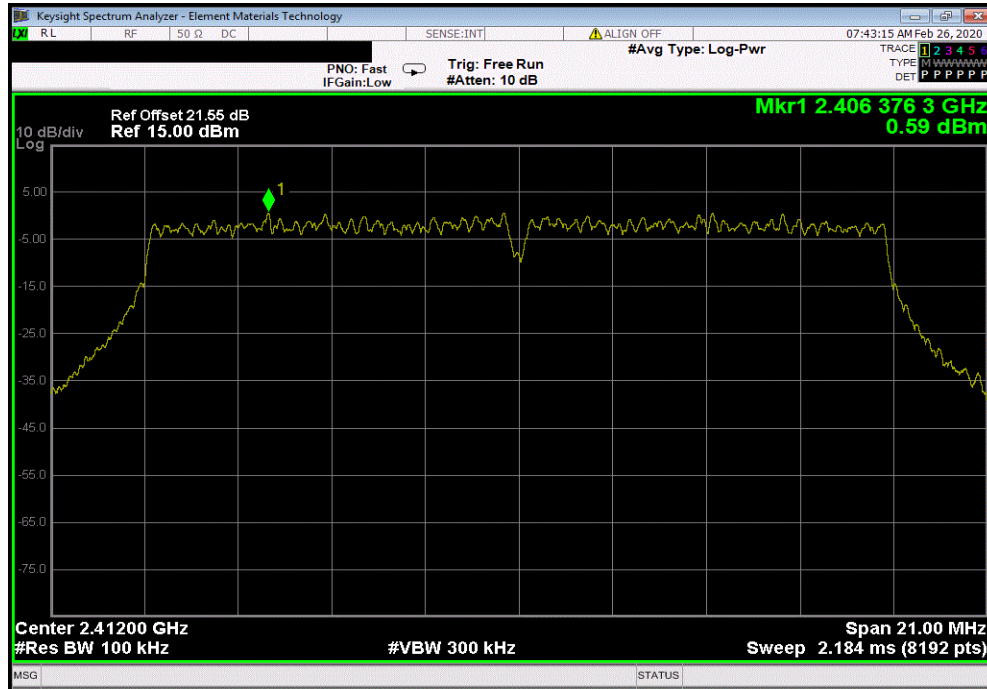


SPURIOUS CONDUCTED EMISSIONS

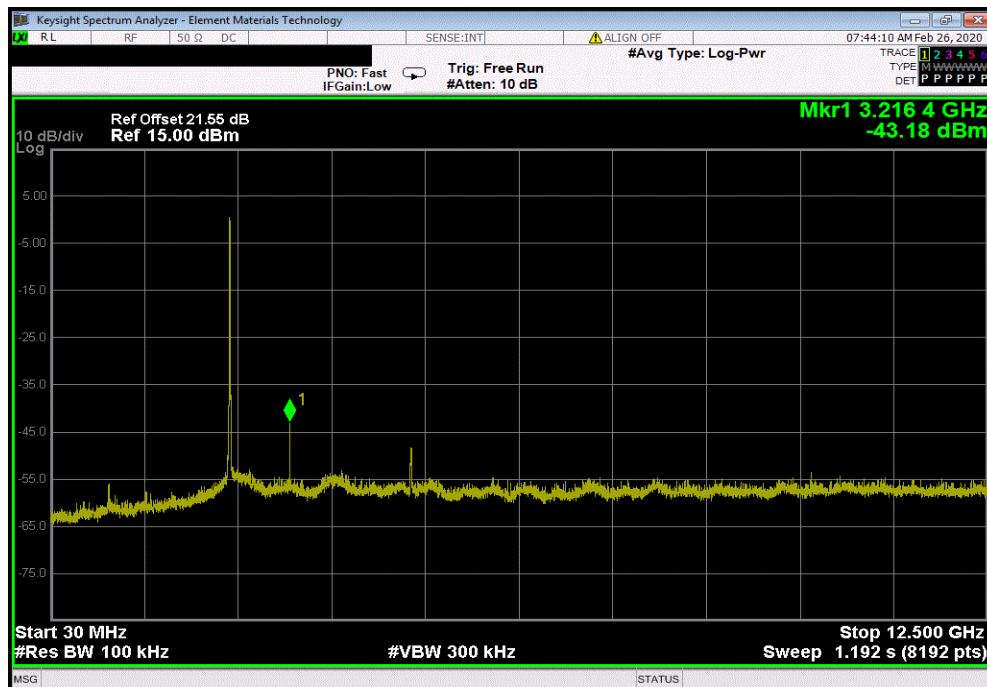


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2406.38	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3216.39	-43.77	-30	Pass		

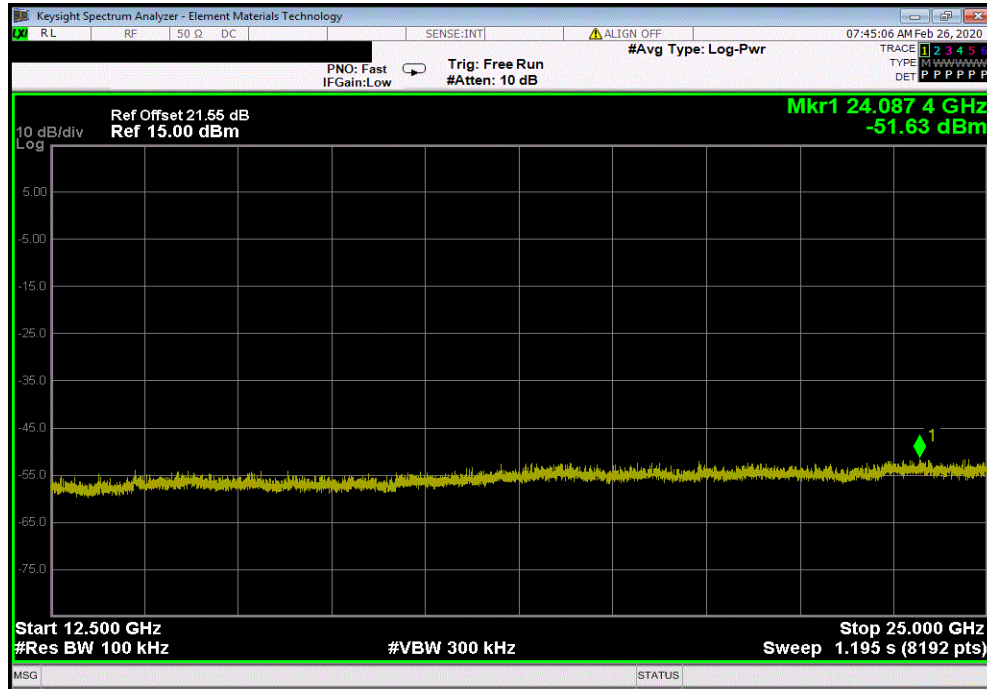


SPURIOUS CONDUCTED EMISSIONS

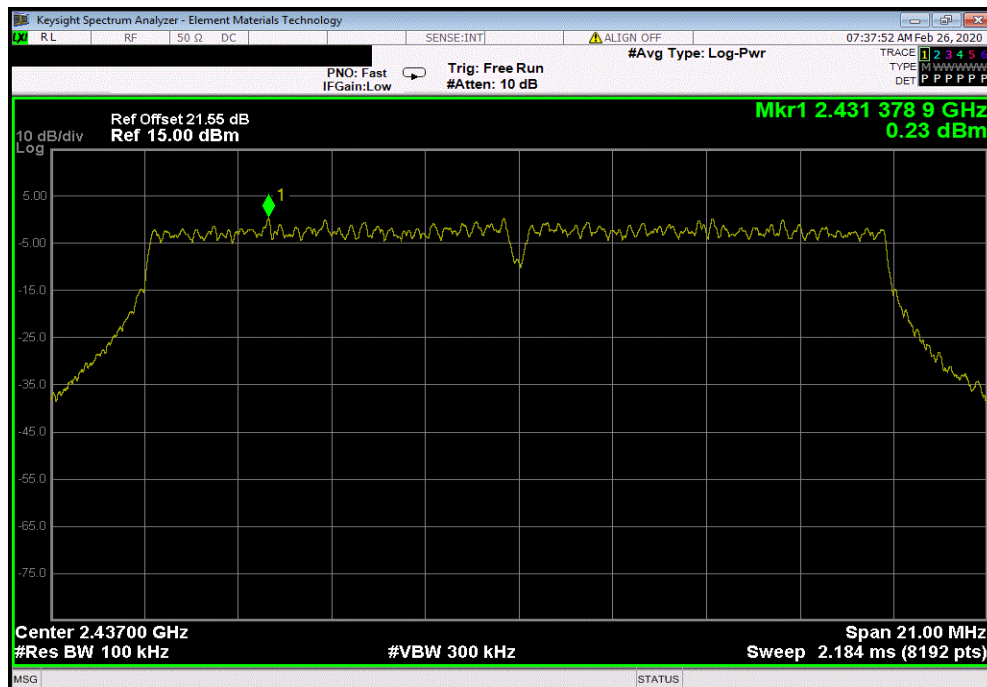


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24087.41	-52.22	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2431.38	N/A	N/A	N/A	

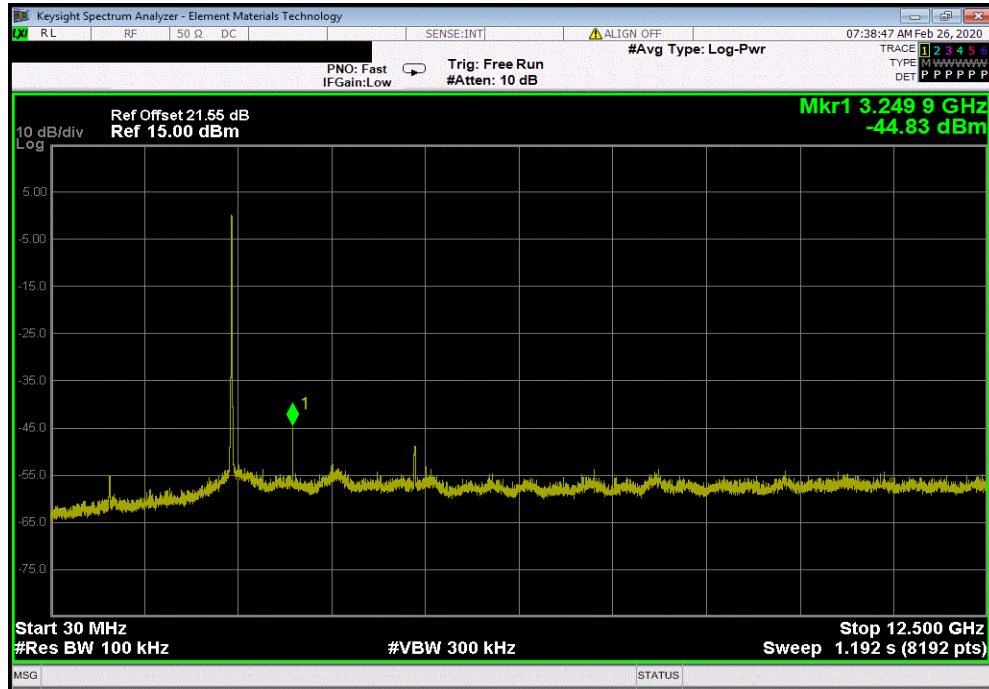


SPURIOUS CONDUCTED EMISSIONS

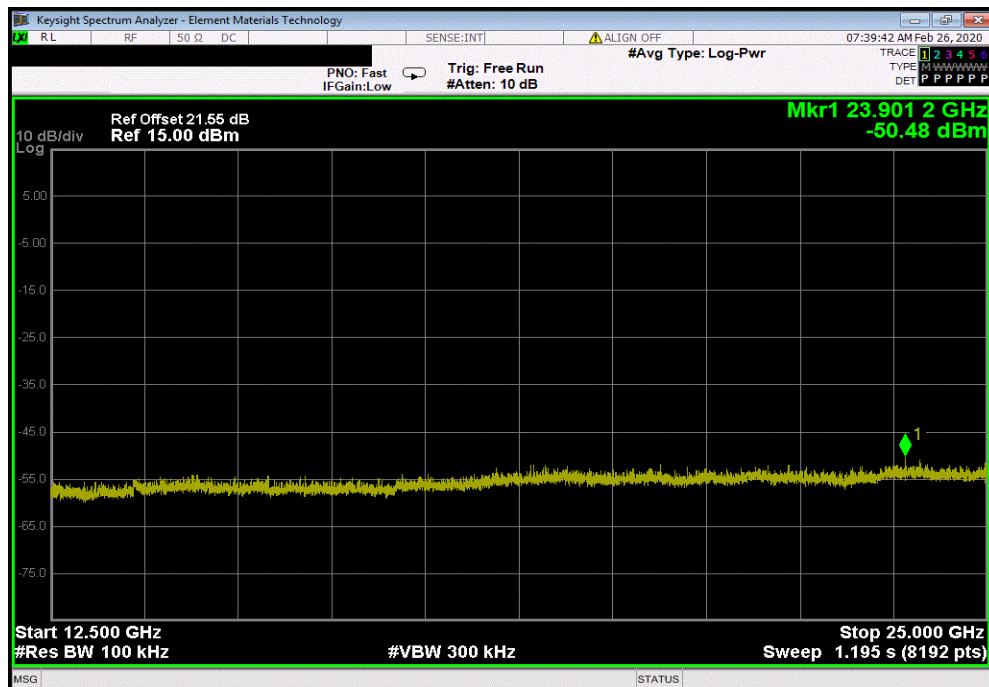


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3249.88	-45.06	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23901.23	-50.71	-30	Pass	

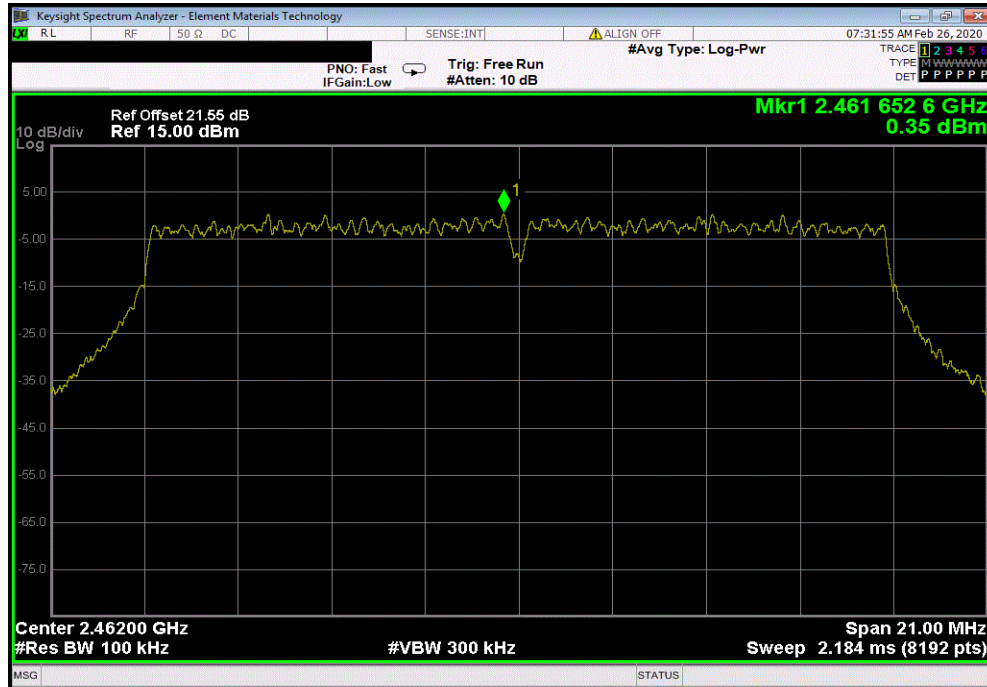


SPURIOUS CONDUCTED EMISSIONS

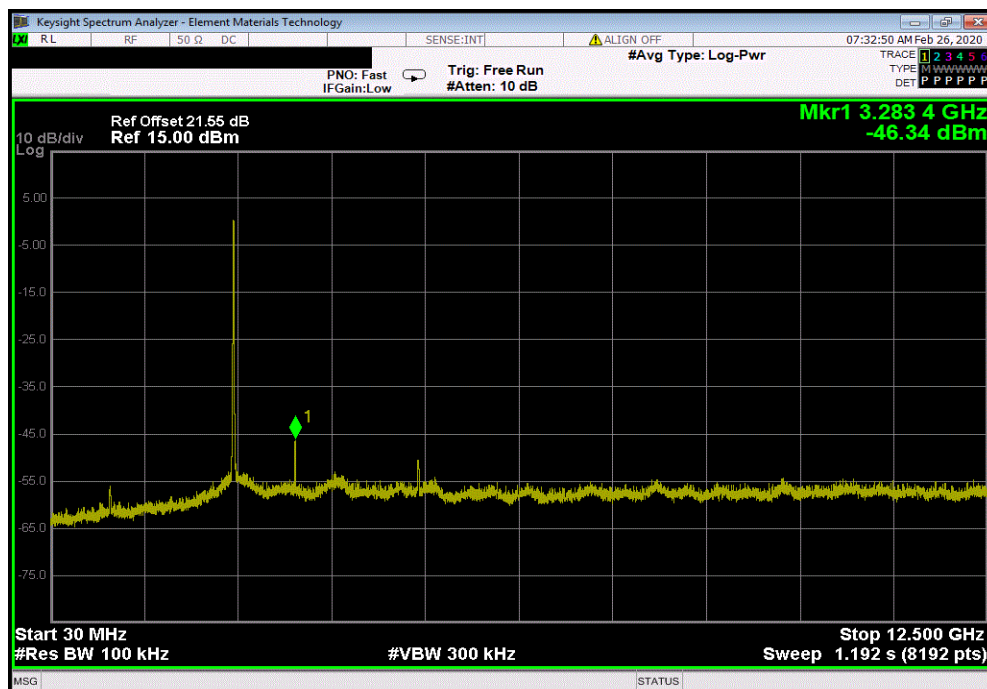


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2461.65	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3283.37	-46.69	-30	Pass		

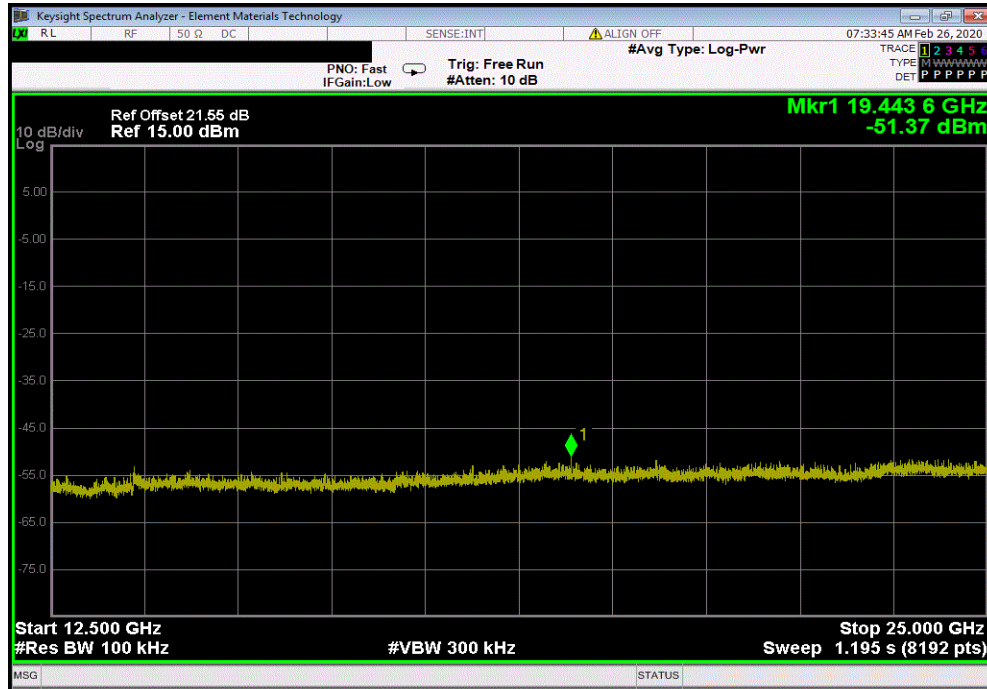


SPURIOUS CONDUCTED EMISSIONS

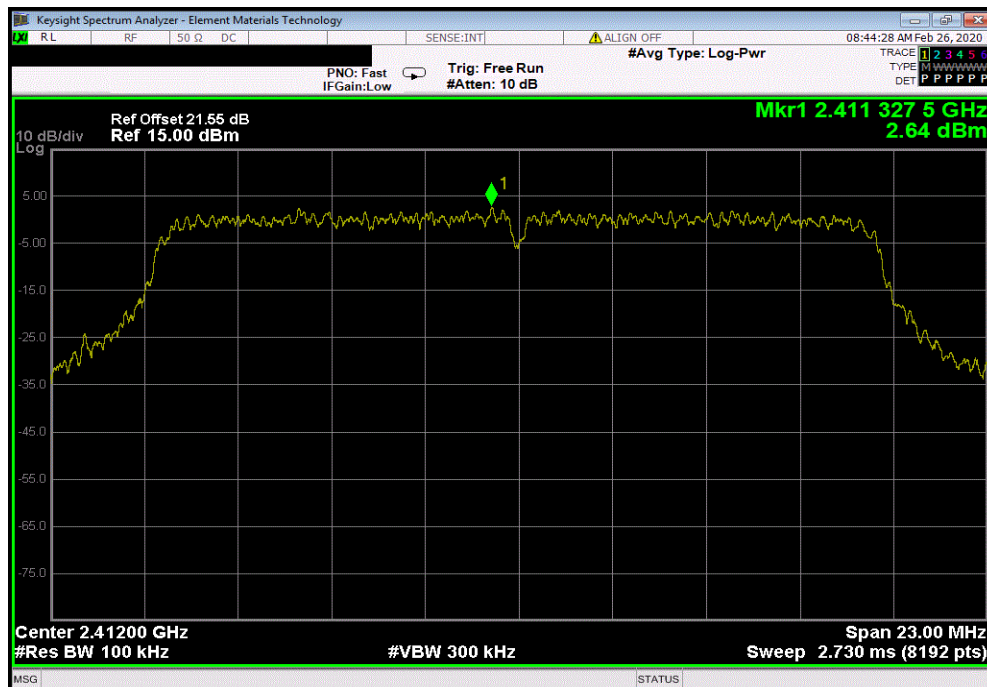


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	19443.6	-51.72	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2411.33	N/A	N/A	N/A	

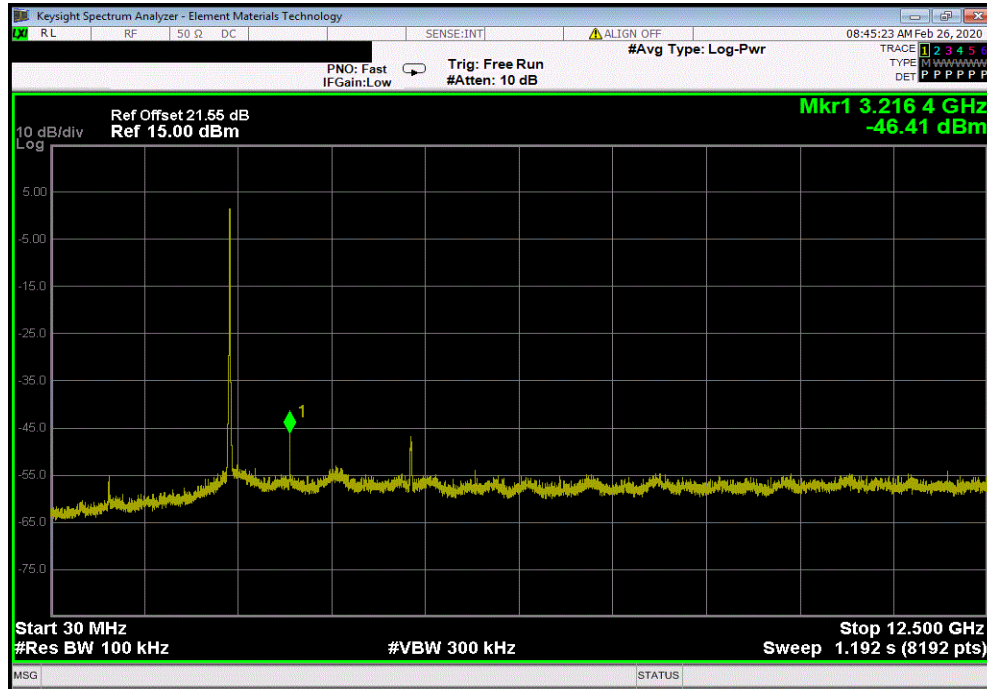


SPURIOUS CONDUCTED EMISSIONS

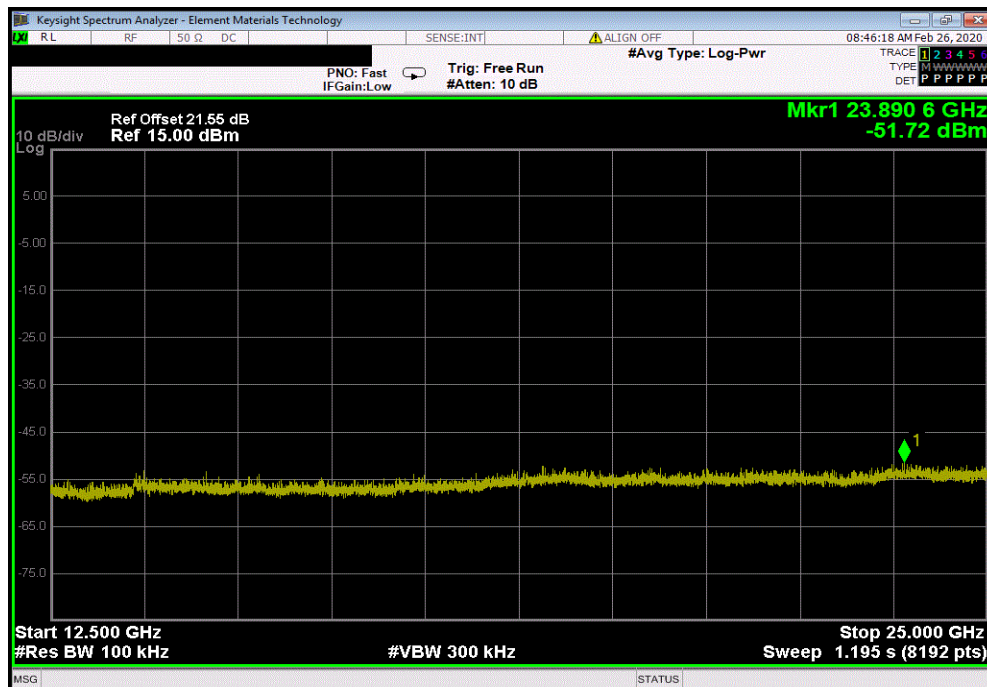


TbTtx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3216.39	-49.05	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23890.55	-54.36	-30	Pass	

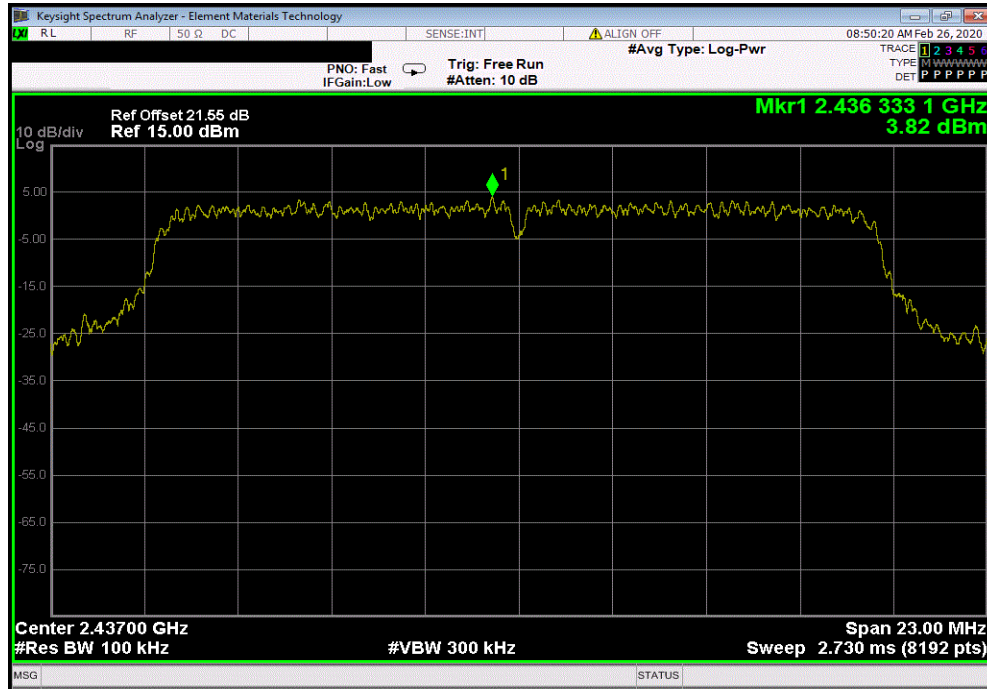


SPURIOUS CONDUCTED EMISSIONS

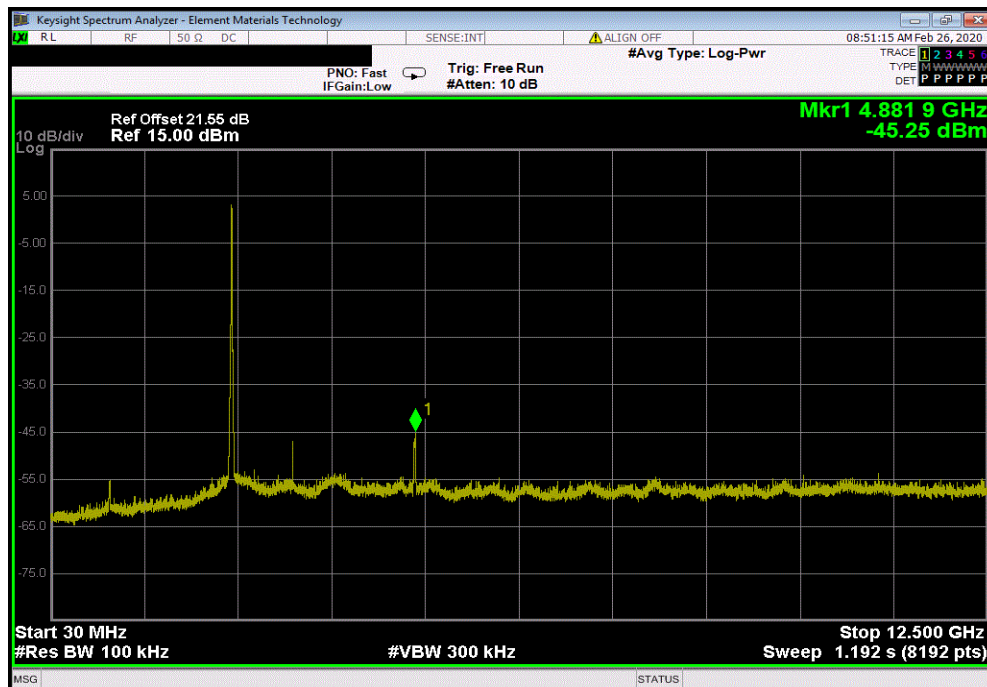


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2436.33	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	4881.9	-49.07	-30	Pass		

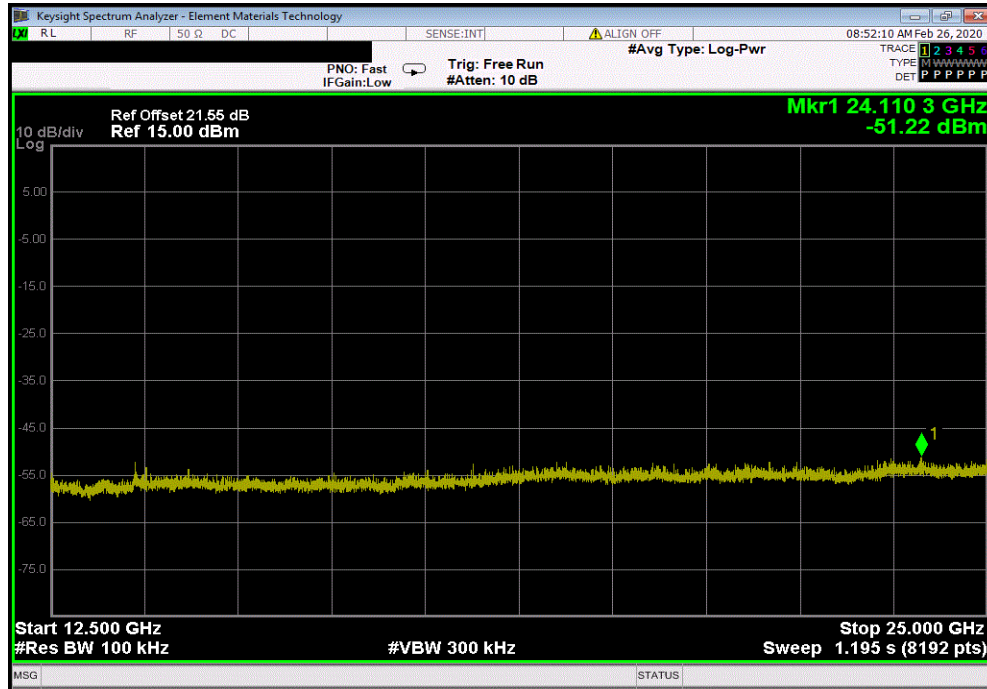


SPURIOUS CONDUCTED EMISSIONS

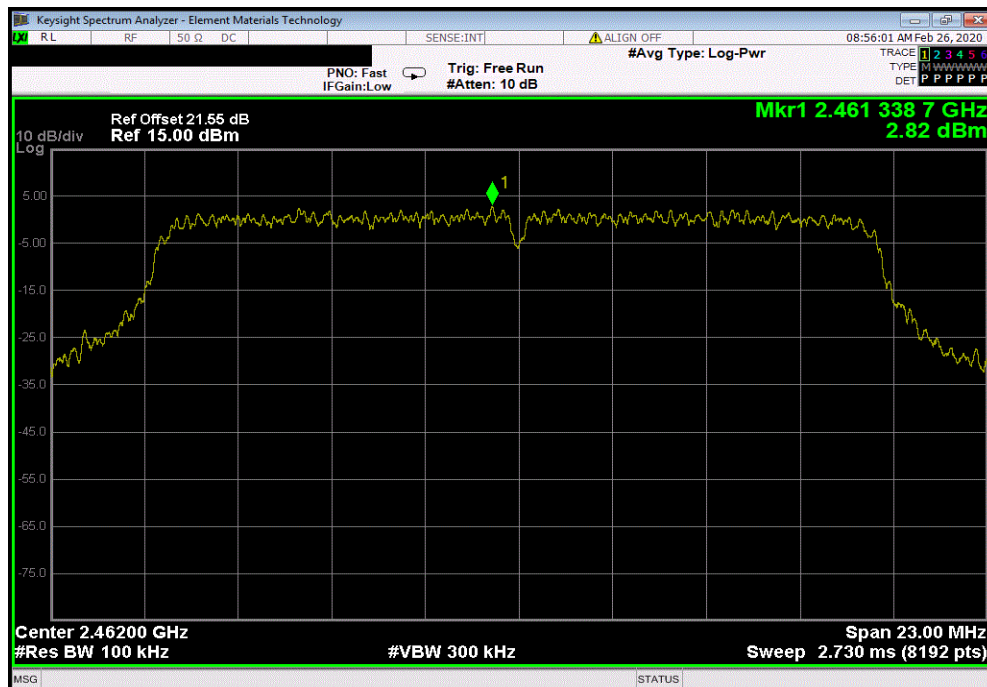


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24110.3	-55.04	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2461.34	N/A	N/A	N/A	

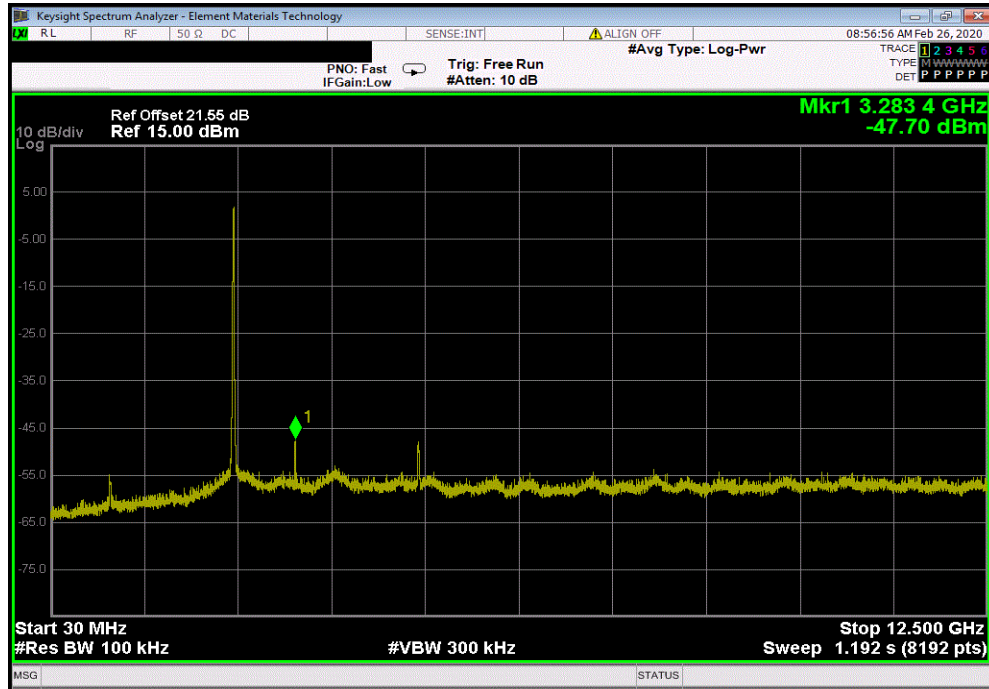


SPURIOUS CONDUCTED EMISSIONS

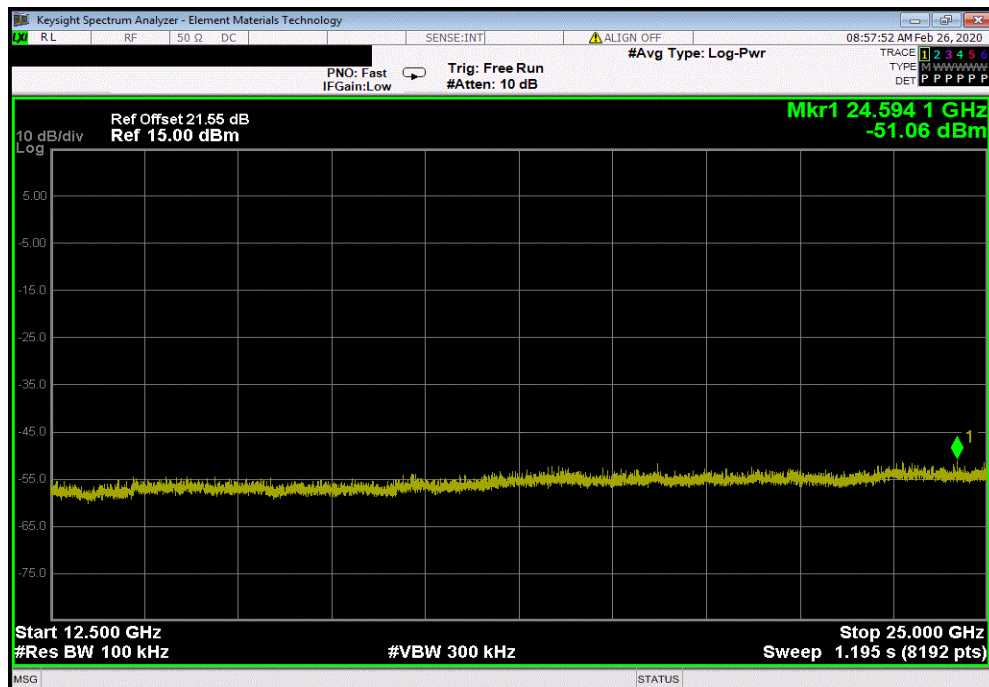


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3283.37	-50.52	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24594.07	-53.88	-30	Pass	

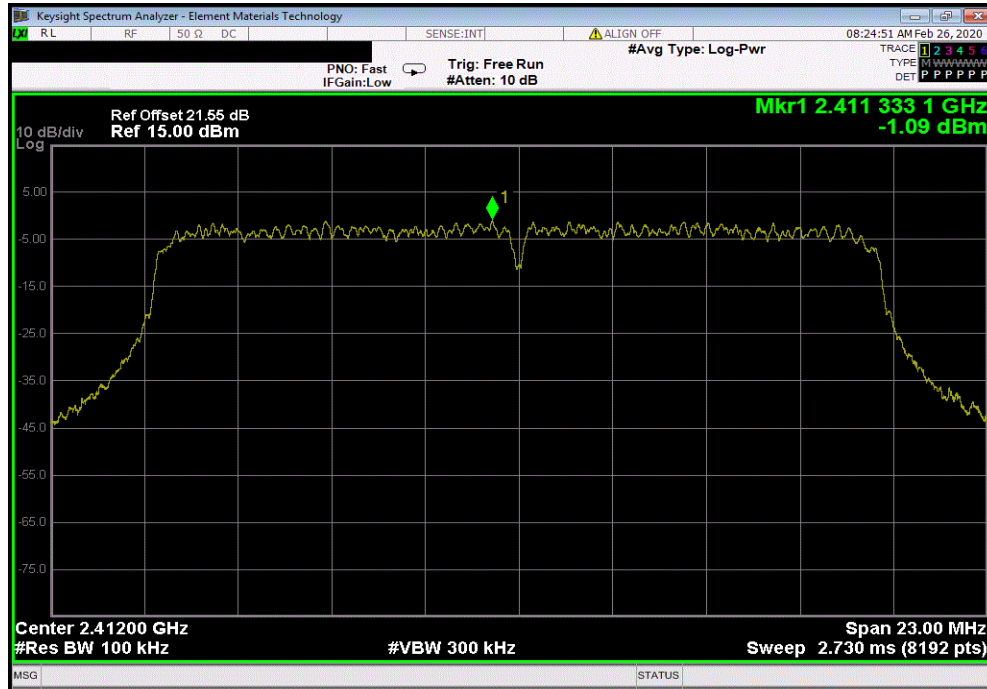


SPURIOUS CONDUCTED EMISSIONS

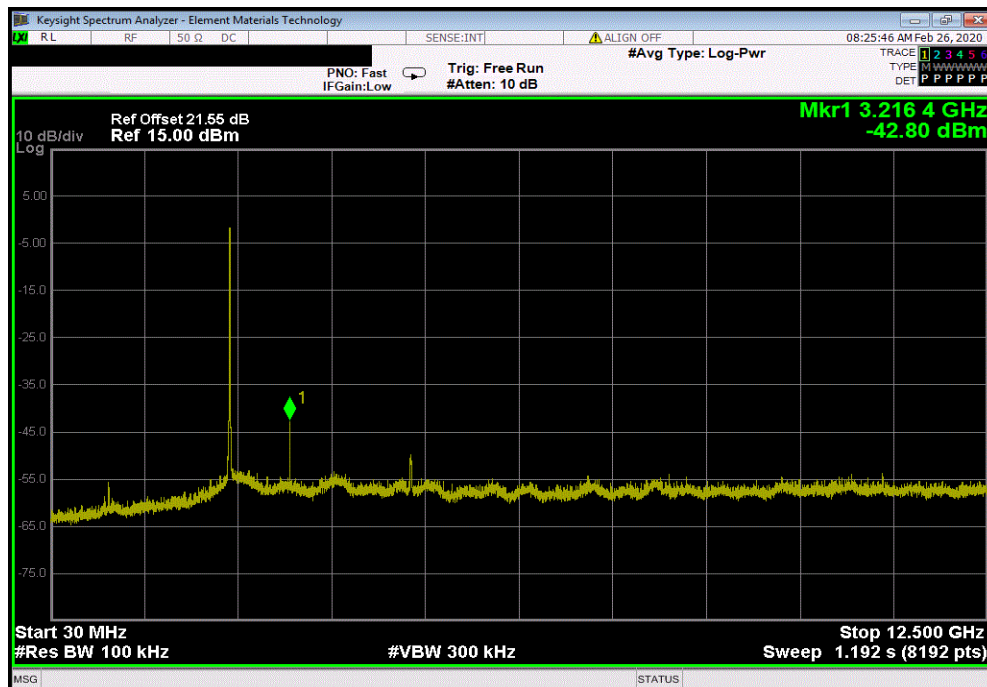


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2411.33	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3216.39	-41.71	-30	Pass		

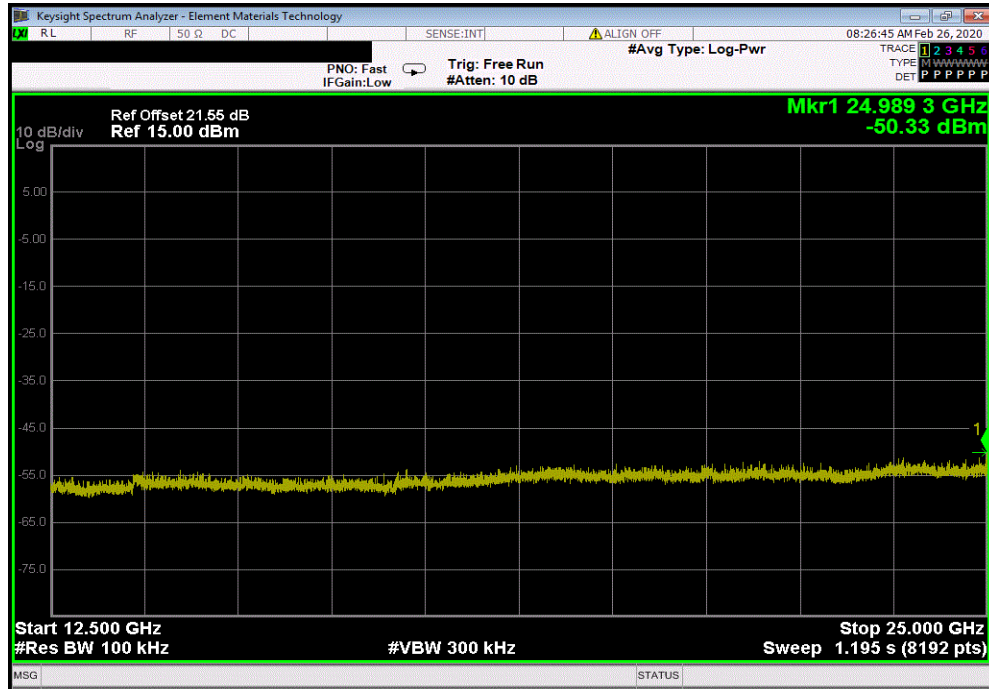


SPURIOUS CONDUCTED EMISSIONS

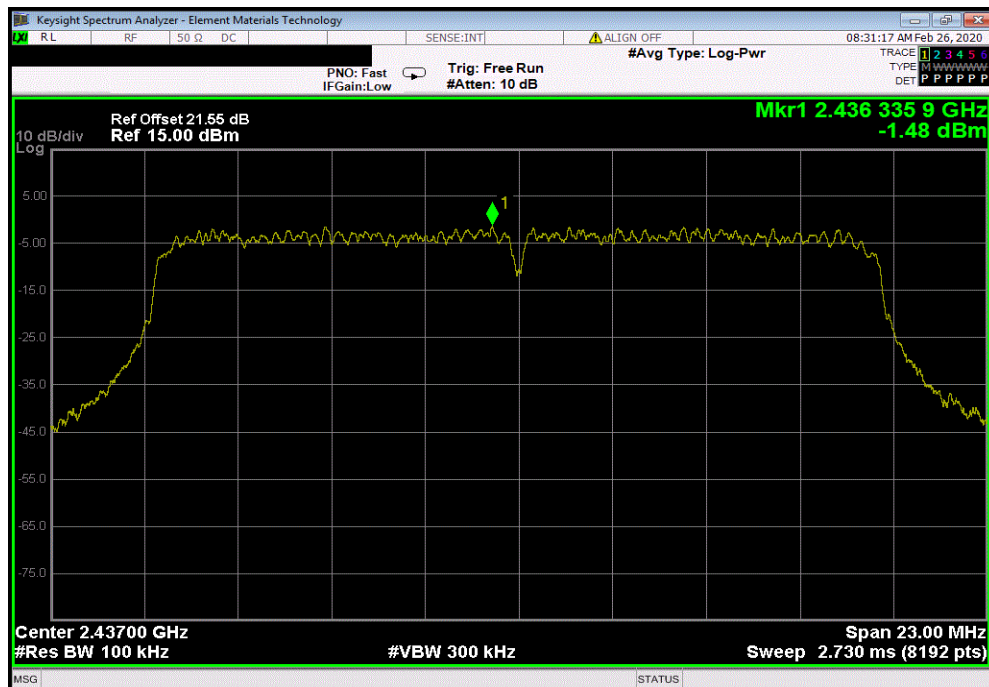


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1, 2412 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24989.32	-49.24	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2436.34	N/A	N/A	N/A	

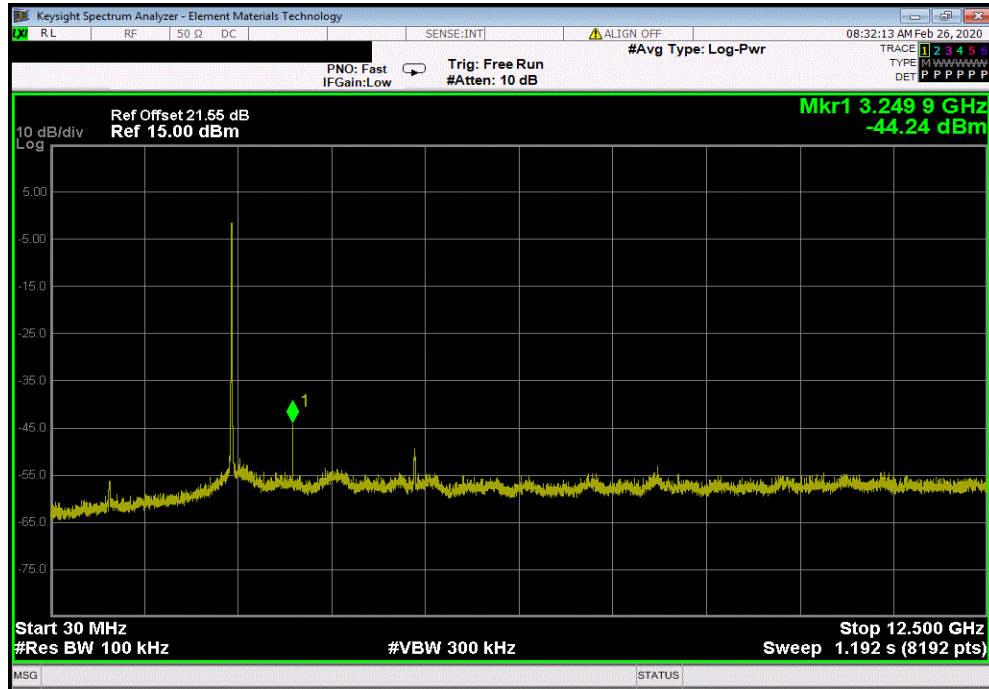


SPURIOUS CONDUCTED EMISSIONS

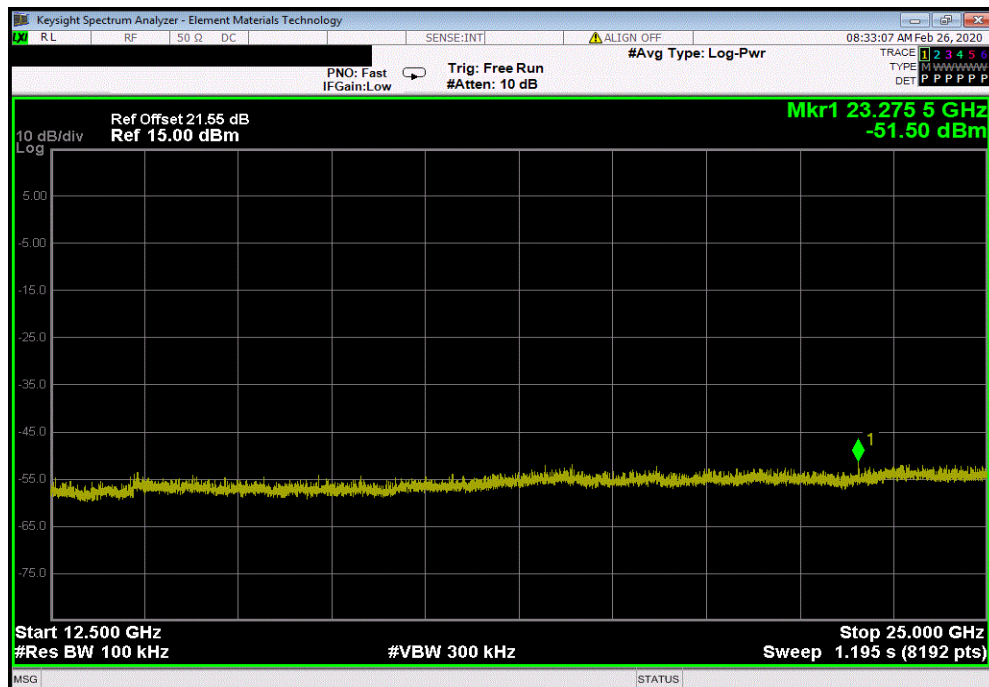


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3249.88	-42.76	-30	Pass	



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 6, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	23275.55	-50.02	-30	Pass	

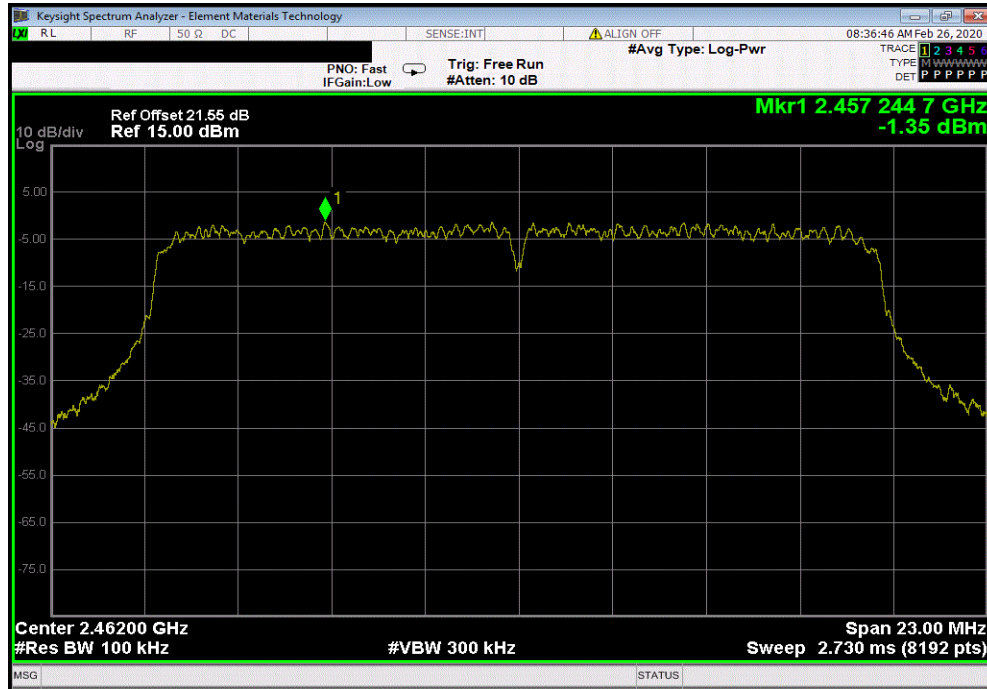


SPURIOUS CONDUCTED EMISSIONS

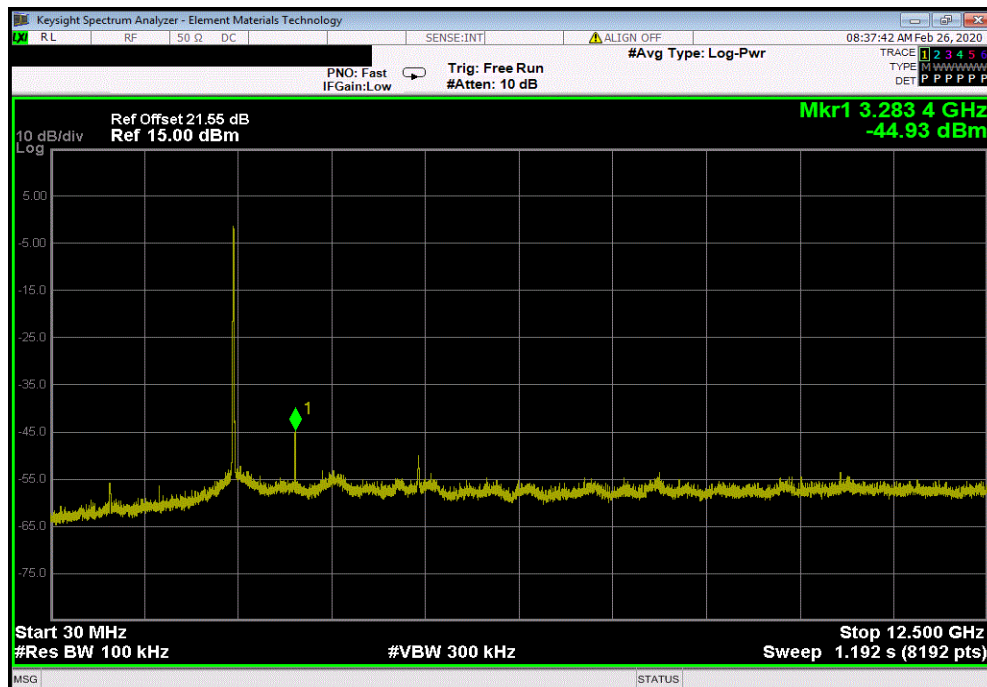


TbTtx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2457.24	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3283.37	-43.58	-30	Pass		

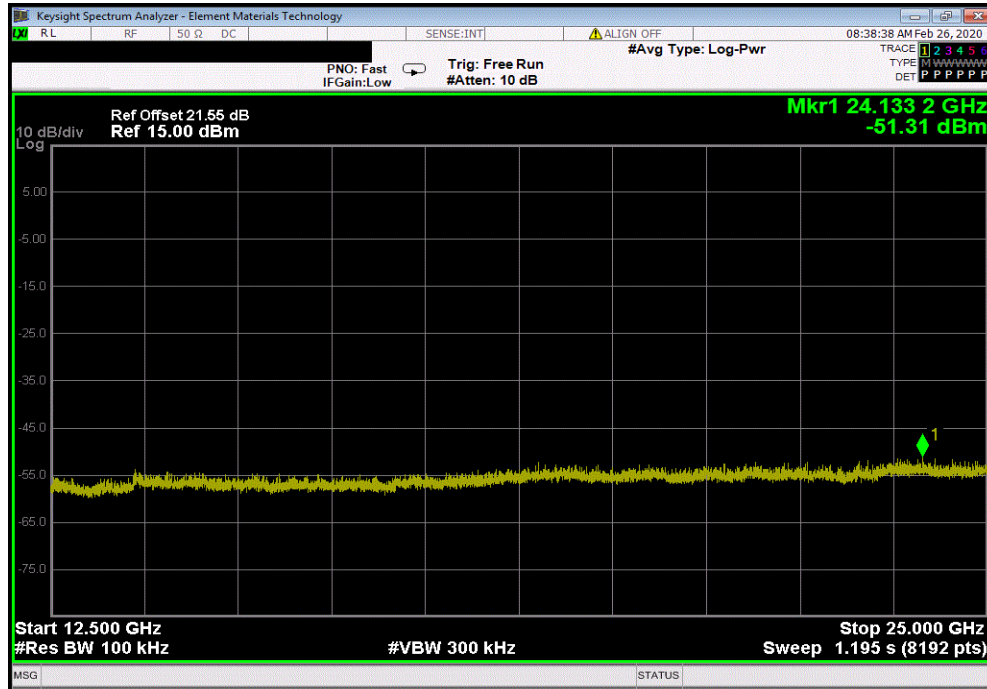


SPURIOUS CONDUCTED EMISSIONS

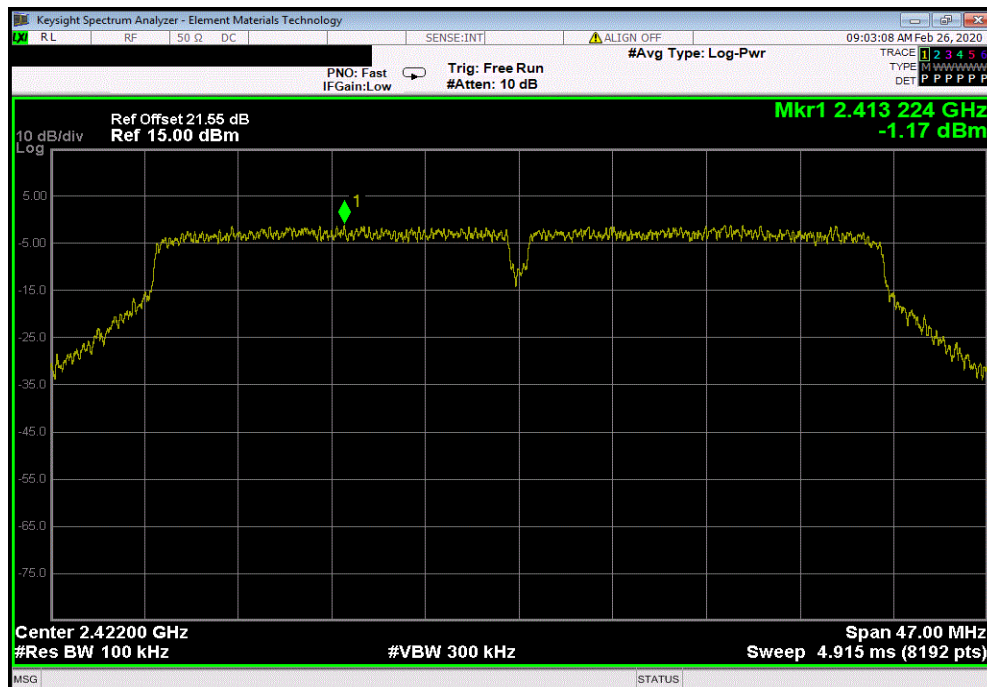


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, High Channel 11, 2462 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24133.2	-49.96	-30	Pass	



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2413.22	N/A	N/A	N/A	

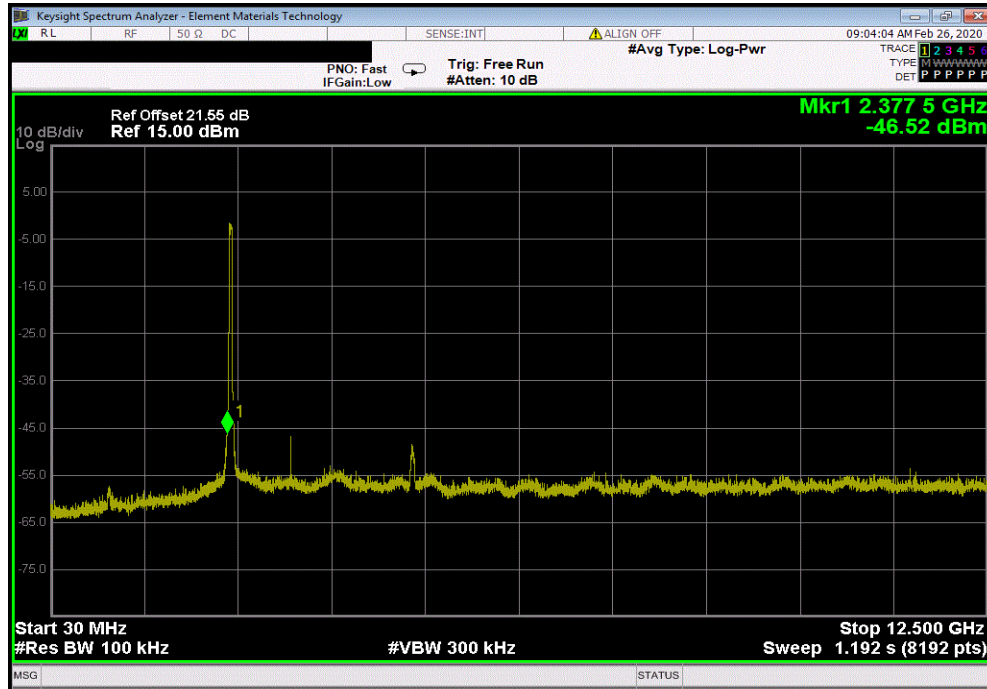


SPURIOUS CONDUCTED EMISSIONS

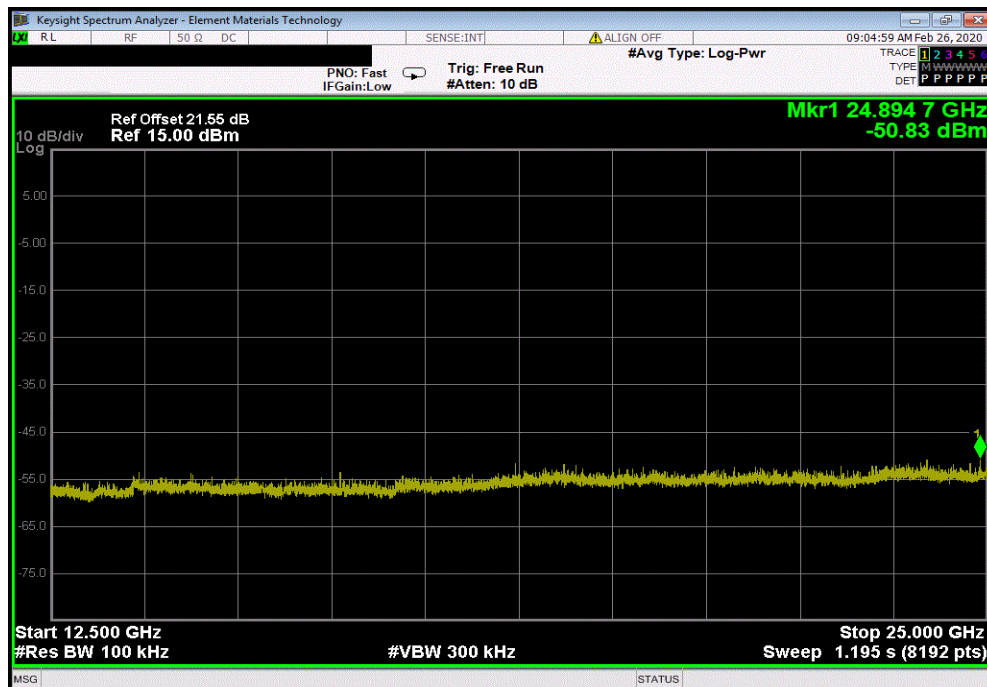


TbTtx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	2377.54	-45.35	-20	Pass	



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24894.7	-49.66	-20	Pass	

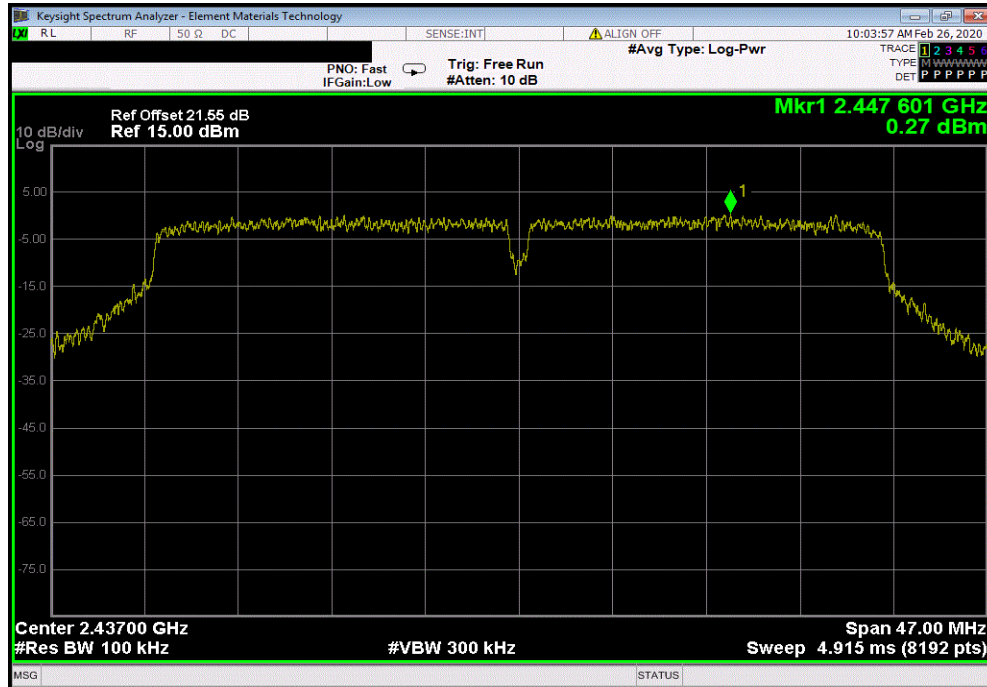


SPURIOUS CONDUCTED EMISSIONS

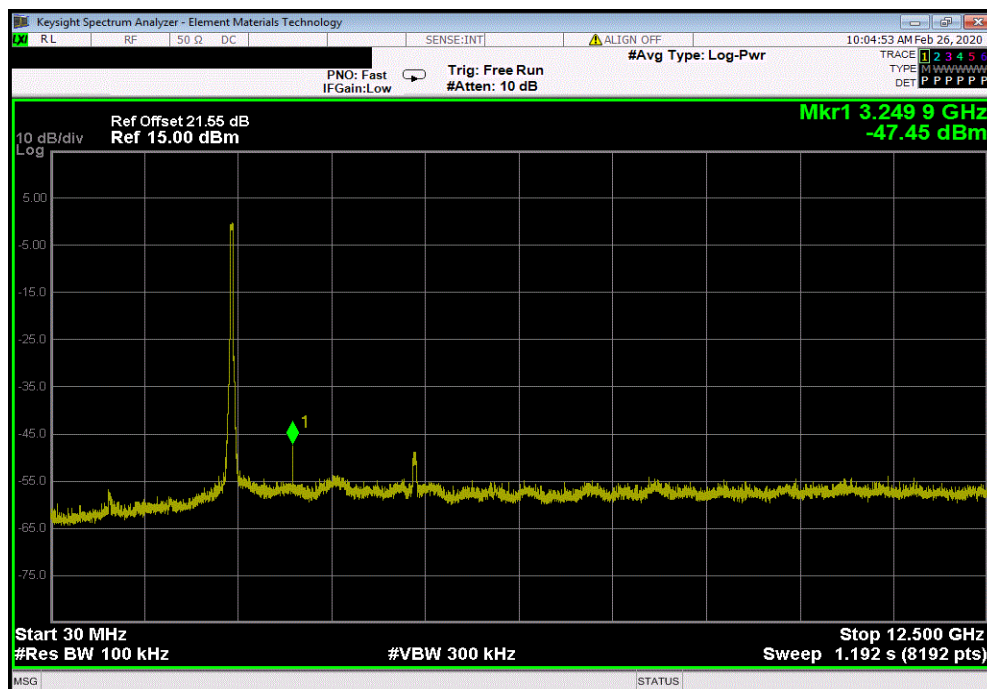


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2447.6	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3249.88	-47.72	-20	Pass		

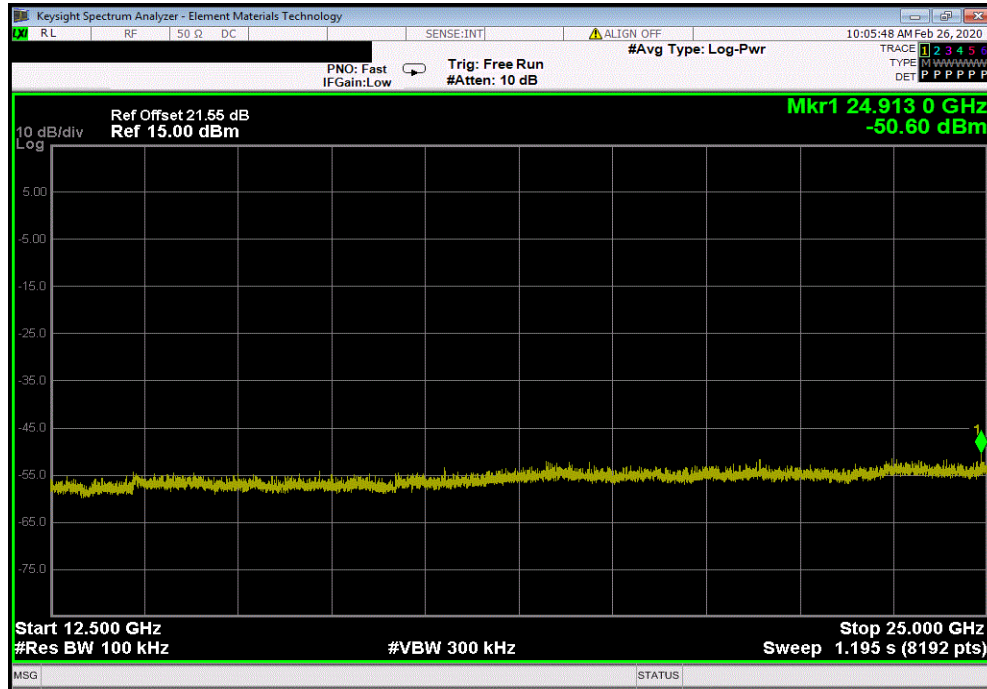


SPURIOUS CONDUCTED EMISSIONS

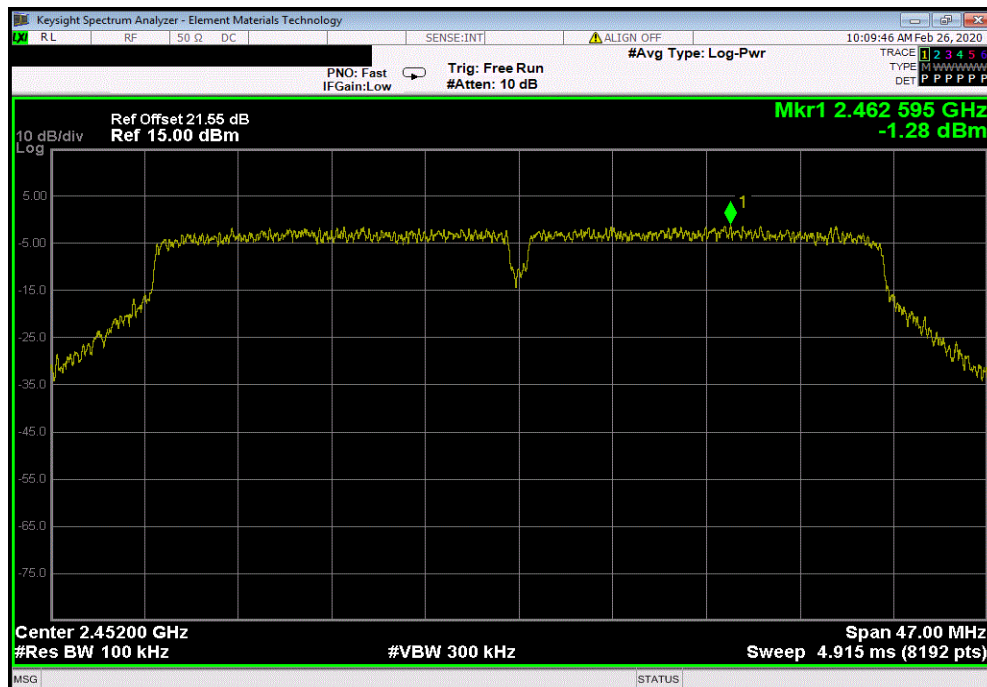


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24913.01	-50.87	-20	Pass	



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, High Channel 7/11, 2452 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2462.6	N/A	N/A	N/A	

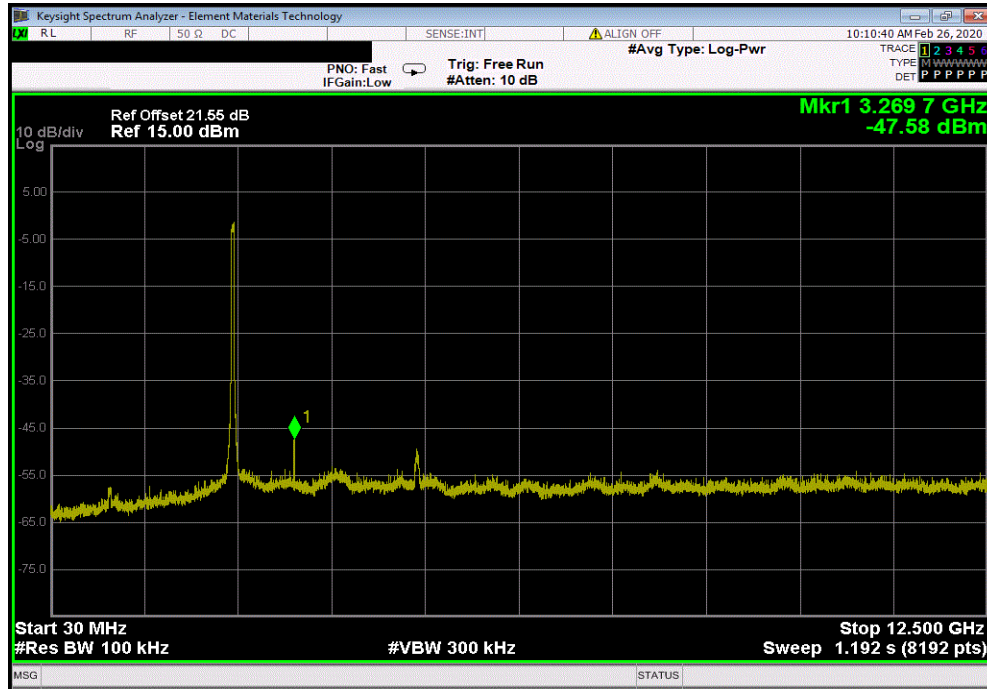


SPURIOUS CONDUCTED EMISSIONS

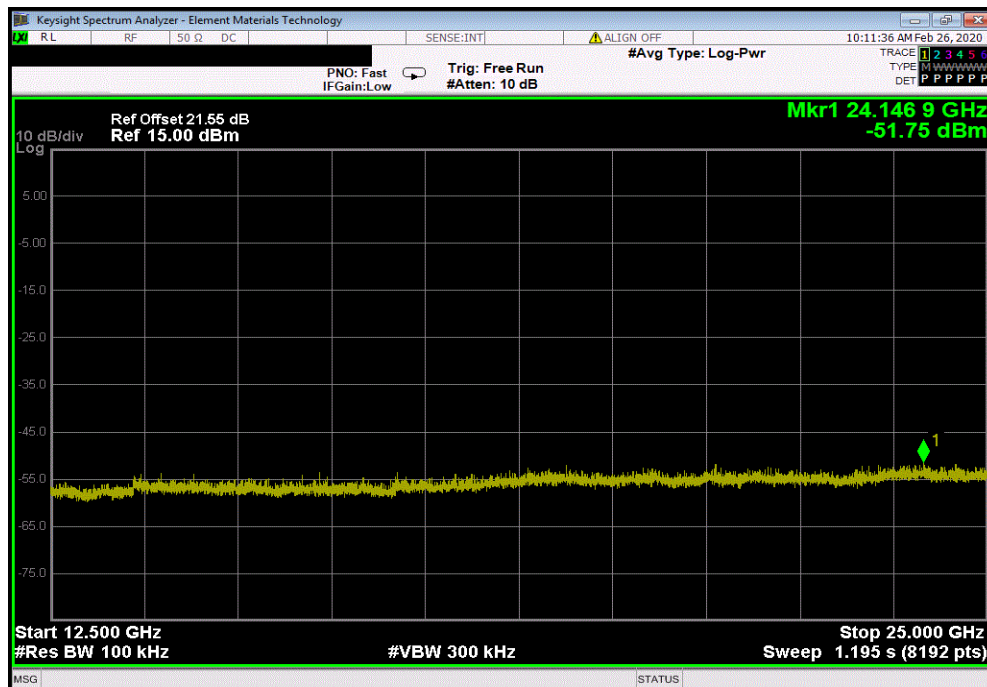


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, High Channel 7/11, 2452 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3269.67	-46.29	-20	Pass	



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, High Channel 7/11, 2452 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24146.93	-50.47	-20	Pass	

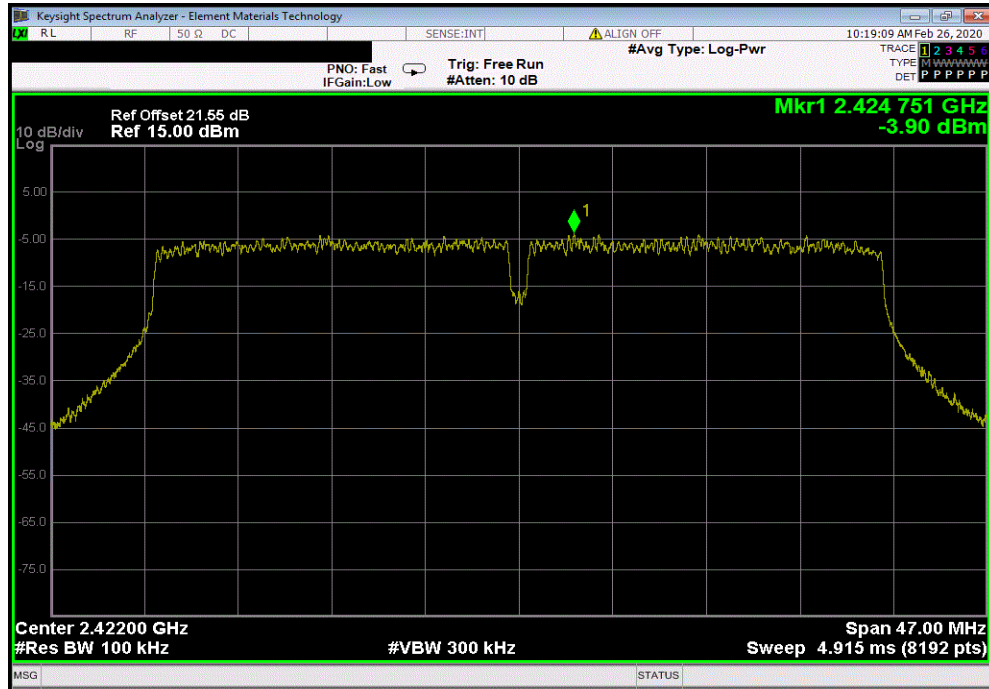


SPURIOUS CONDUCTED EMISSIONS

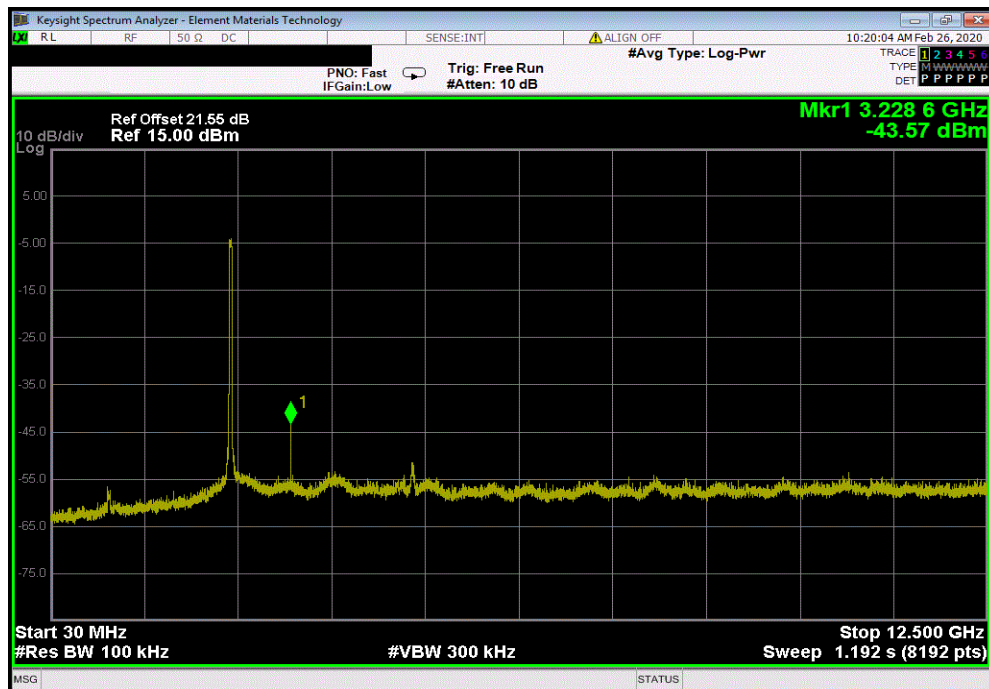


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2424.75	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3228.57	-39.66	-20	Pass		

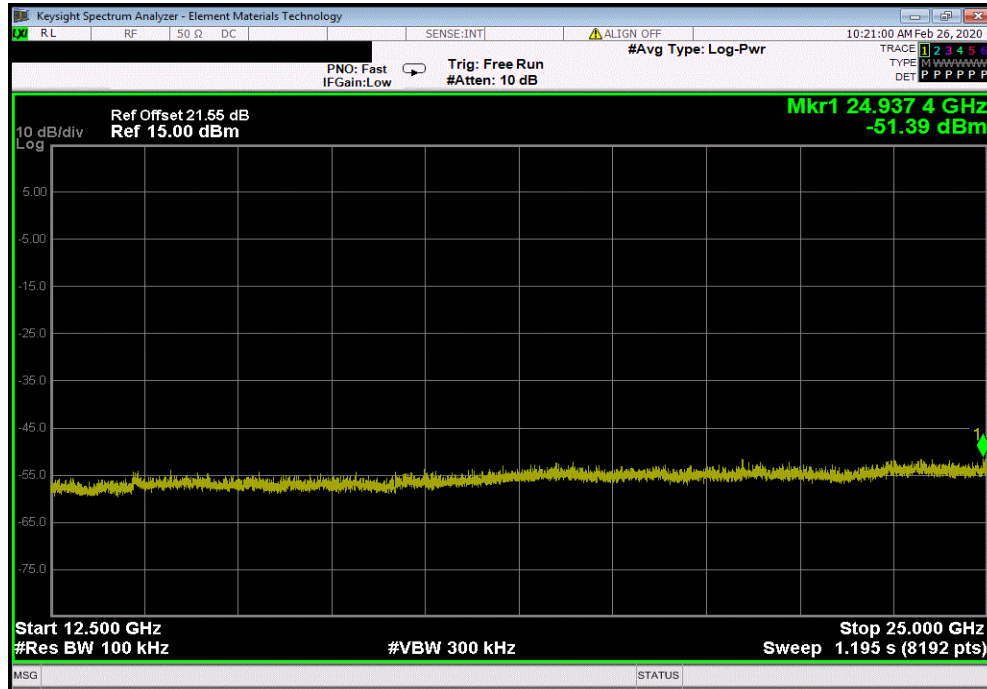


SPURIOUS CONDUCTED EMISSIONS

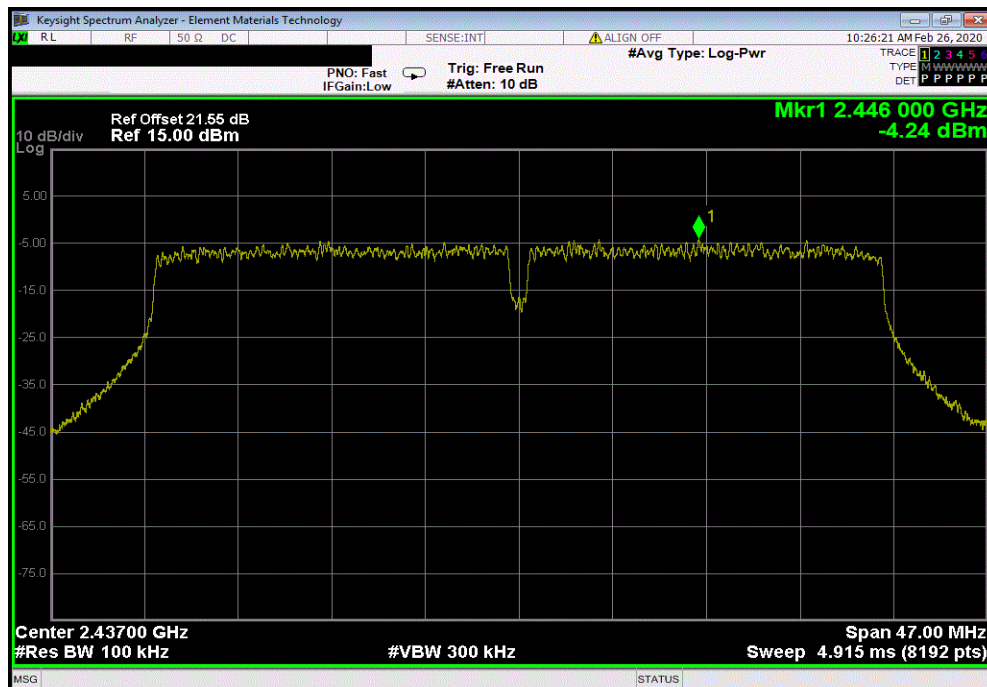


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24937.43	-47.48	-20	Pass	



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
Fundamental	2446	N/A	N/A	N/A	

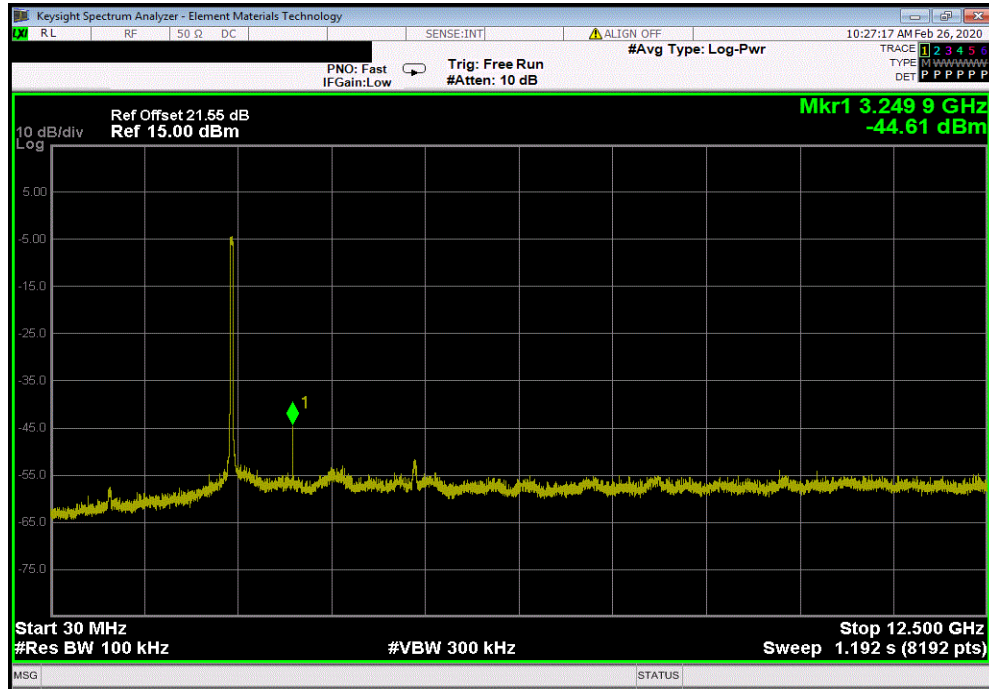


SPURIOUS CONDUCTED EMISSIONS

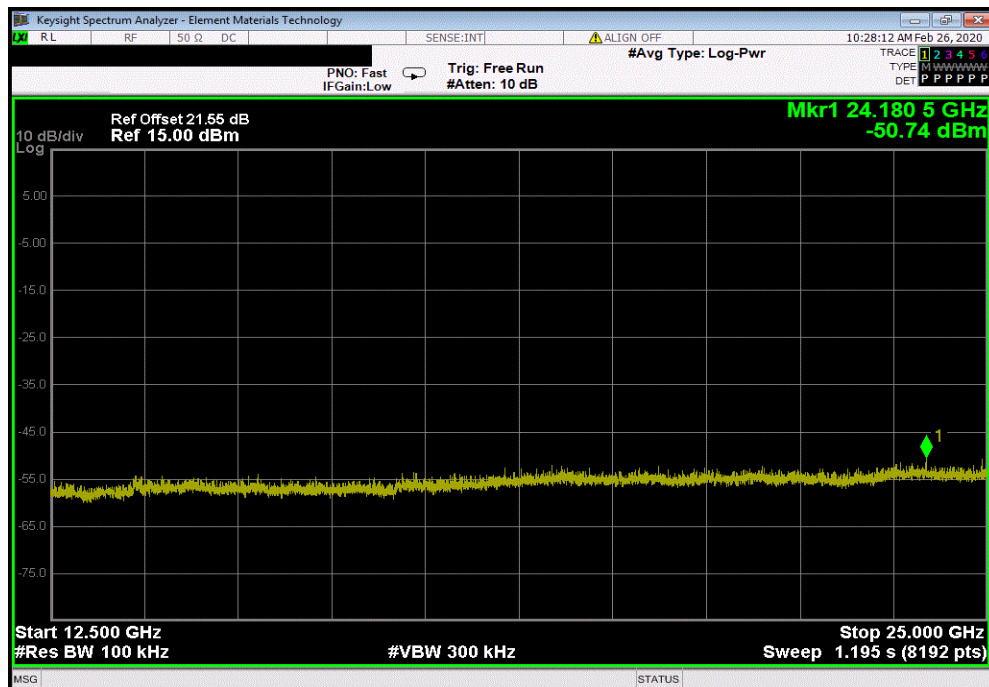


TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
30 MHz - 12.5 GHz	3249.88	-40.37	-20	Pass	



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	24180.5	-46.5	-20	Pass	

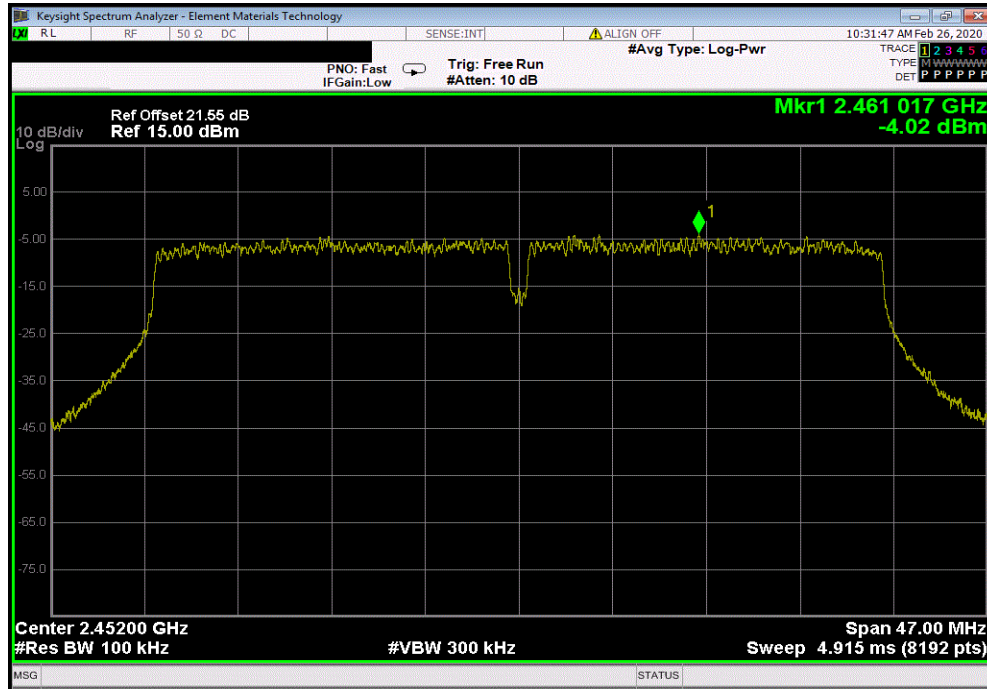


SPURIOUS CONDUCTED EMISSIONS

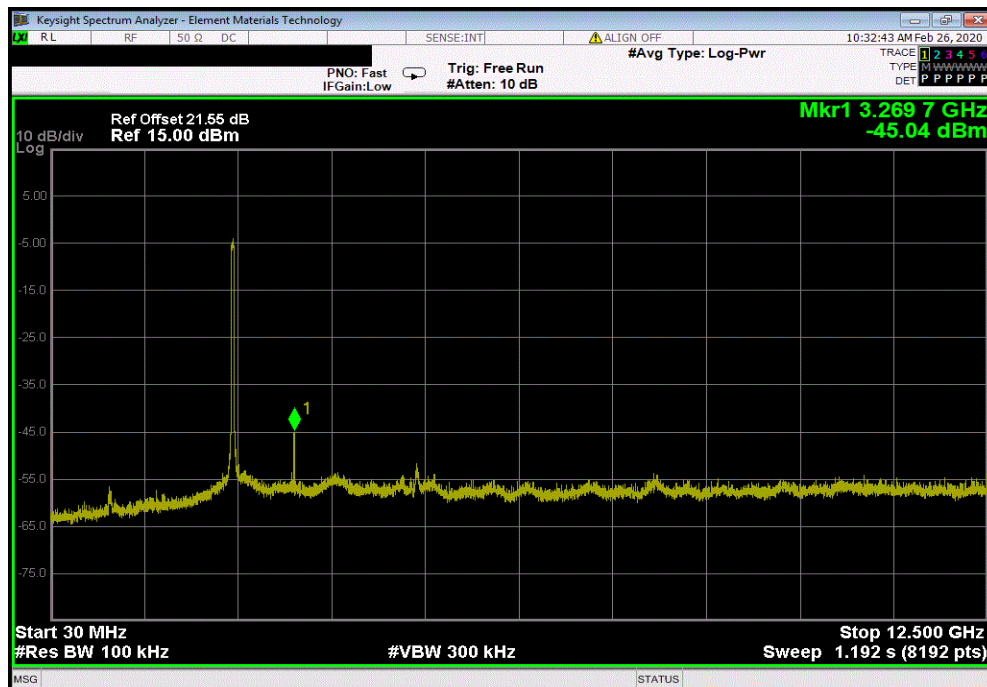


TbTtX 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, High Channel 7/11, 2452 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
Fundamental	2461.02	N/A	N/A	N/A		



2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, High Channel 7/11, 2452 MHz						
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result		
30 MHz - 12.5 GHz	3269.67	-41.02	-20	Pass		



SPURIOUS CONDUCTED EMISSIONS



TbTx 2019.08.30.0 XMI 2019.09.05

2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, High Channel 7/11, 2452 MHz					
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result	
12.5 GHz - 25 GHz	20424.86	-47.5	-20	Pass	

