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

element

TbtTx 2019.08.30.0 XMit 2019.09.05

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	Power: 24VDC	Job Site: MN08

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

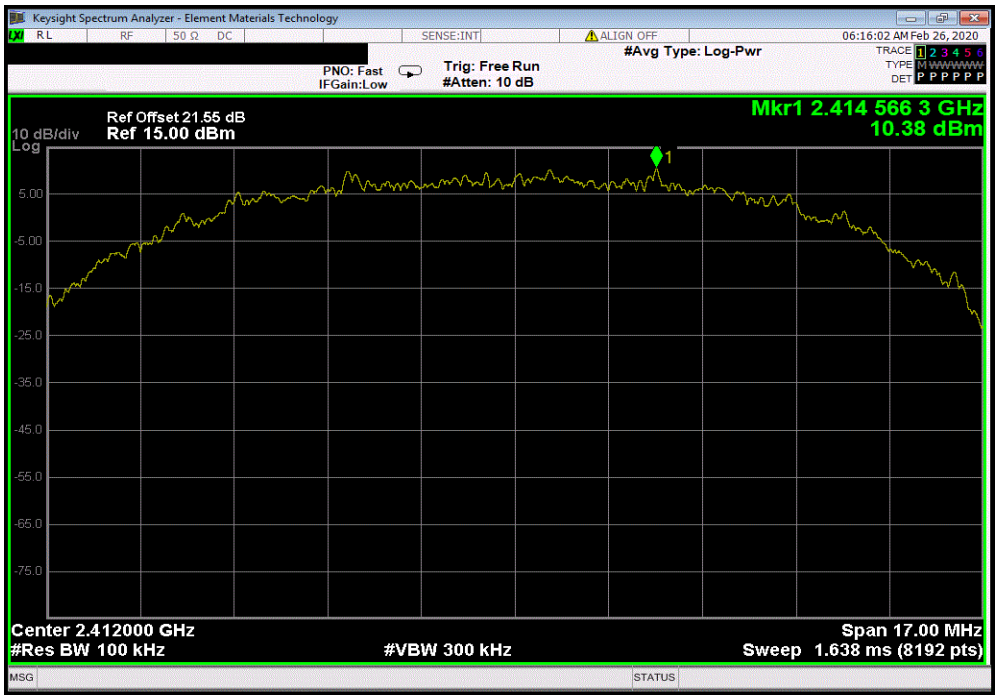
None

Configuration #	17	Signature

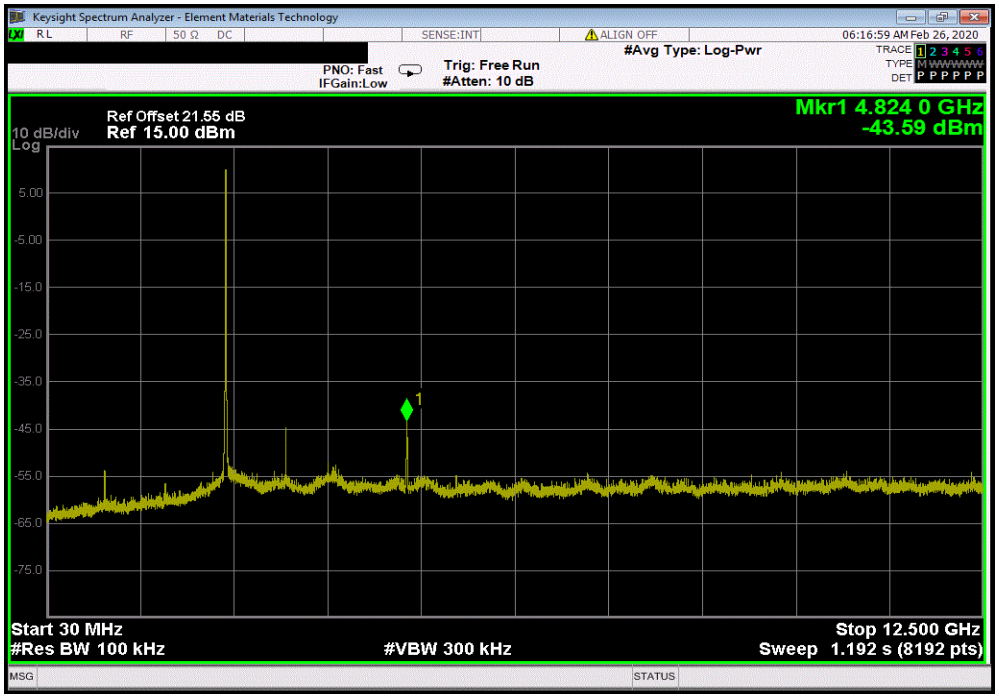
	Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
2400 MHz - 2483.5 MHz Band					
20 MHz Bandwidth					
802.11(b) 1 Mbps					
Low Channel 1, 2412 MHz	Fundamental	2414.57	N/A	N/A	N/A
Low Channel 1, 2412 MHz	30 MHz - 12.5 GHz	4824.05	-53.97	-30	Pass
Low Channel 1, 2412 MHz	12.5 GHz - 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	-47.48	-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

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



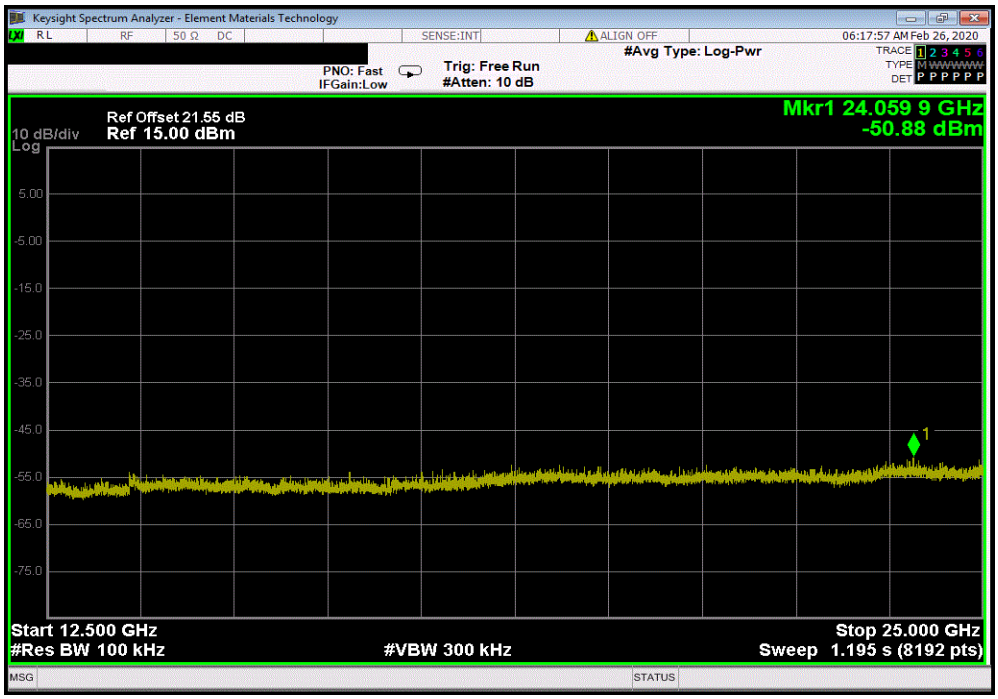
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	4824.05	-53.97	-30	Pass



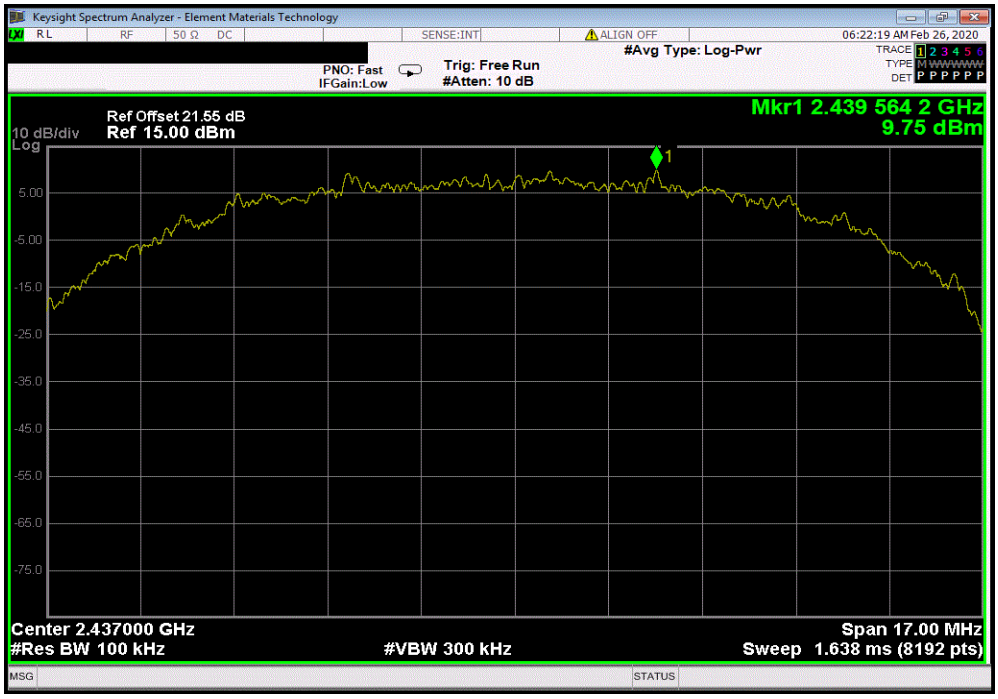
SPURIOUS CONDUCTED EMISSIONS

TbtTx 2019.08.30.0 XMit 2019.09.05

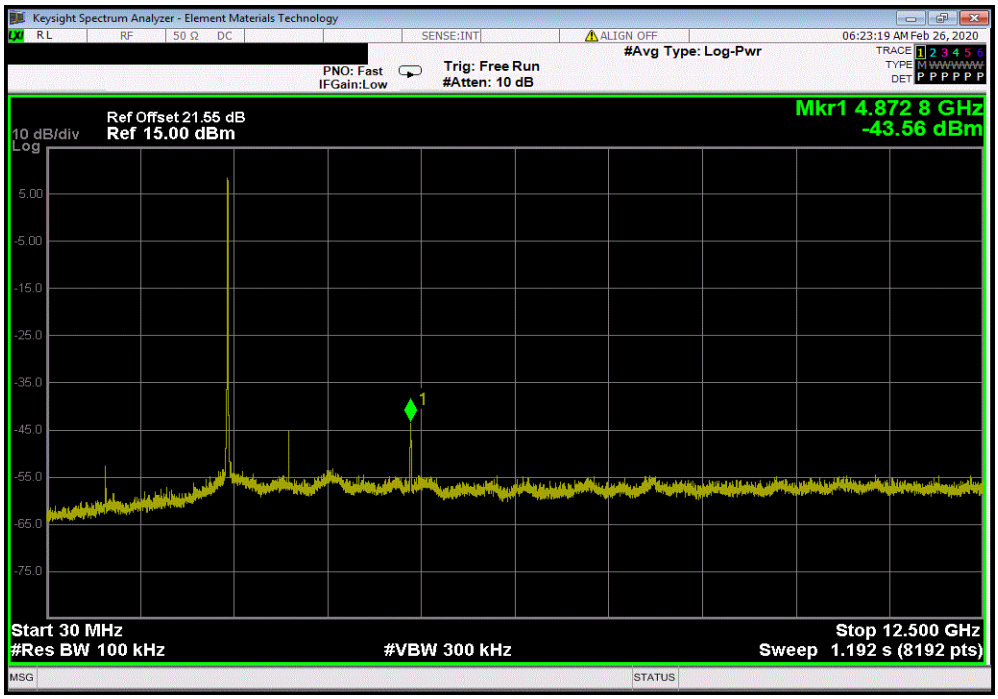
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24059.94	-61.26	-30	Pass



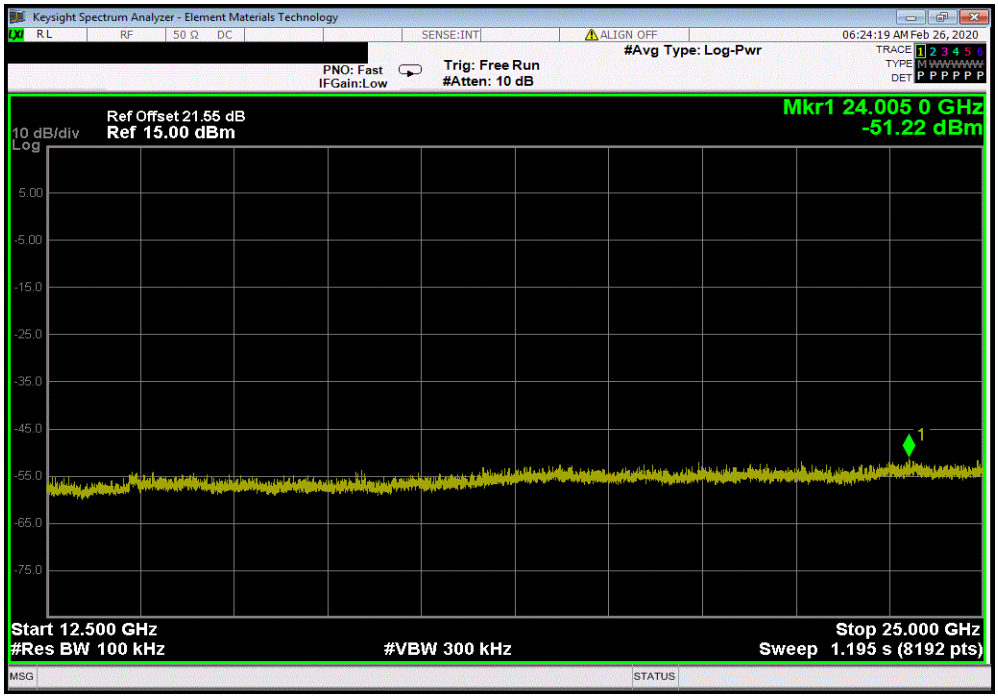
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2439.56	N/A	N/A	N/A



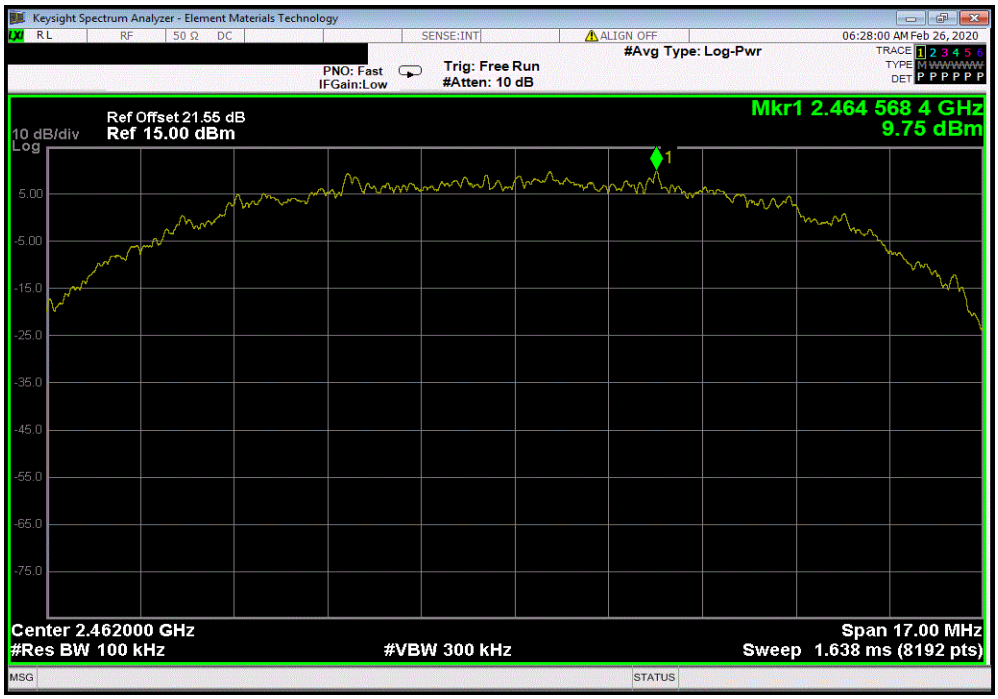
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	4872.76	-53.32	-30	Pass



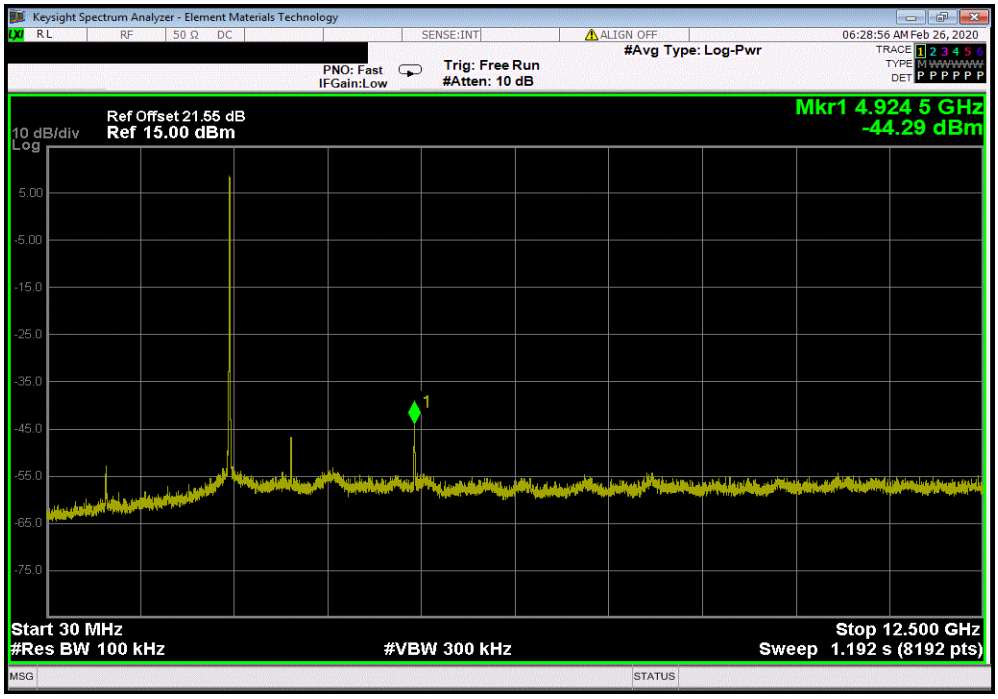
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24005.01	-60.98	-30	Pass



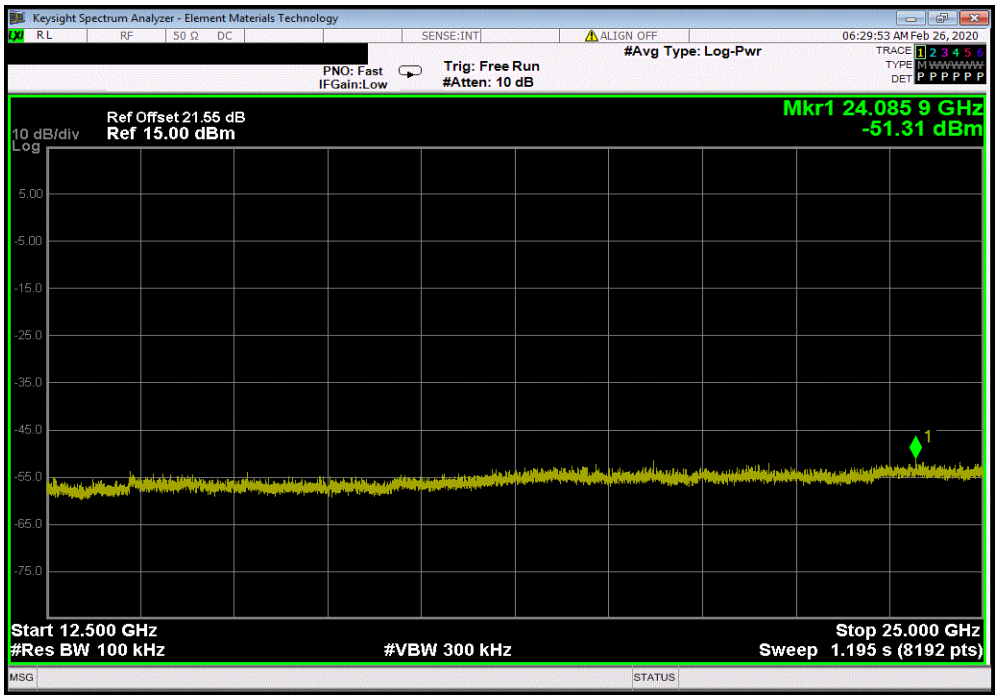
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2464.57	N/A	N/A	N/A



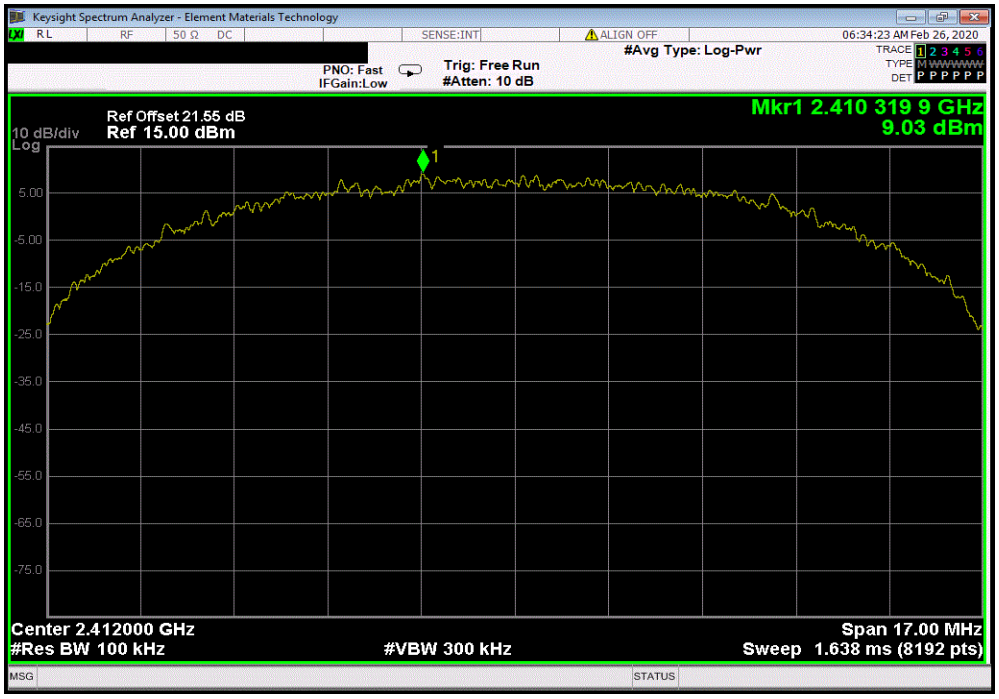
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	4924.52	-54.04	-30	Pass



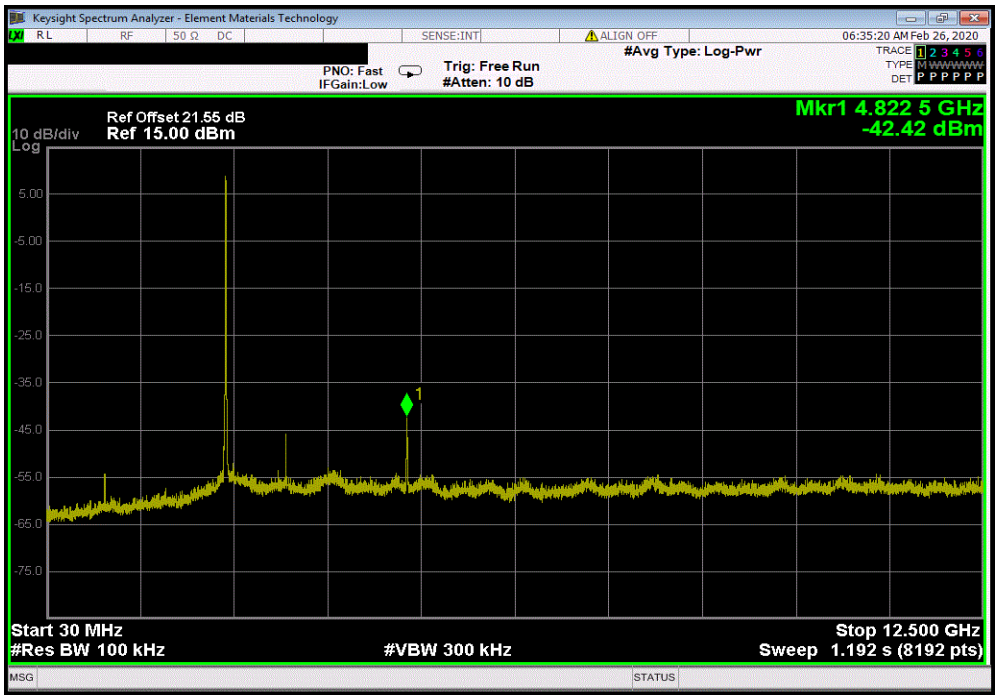
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24085.89	-61.06	-30	Pass



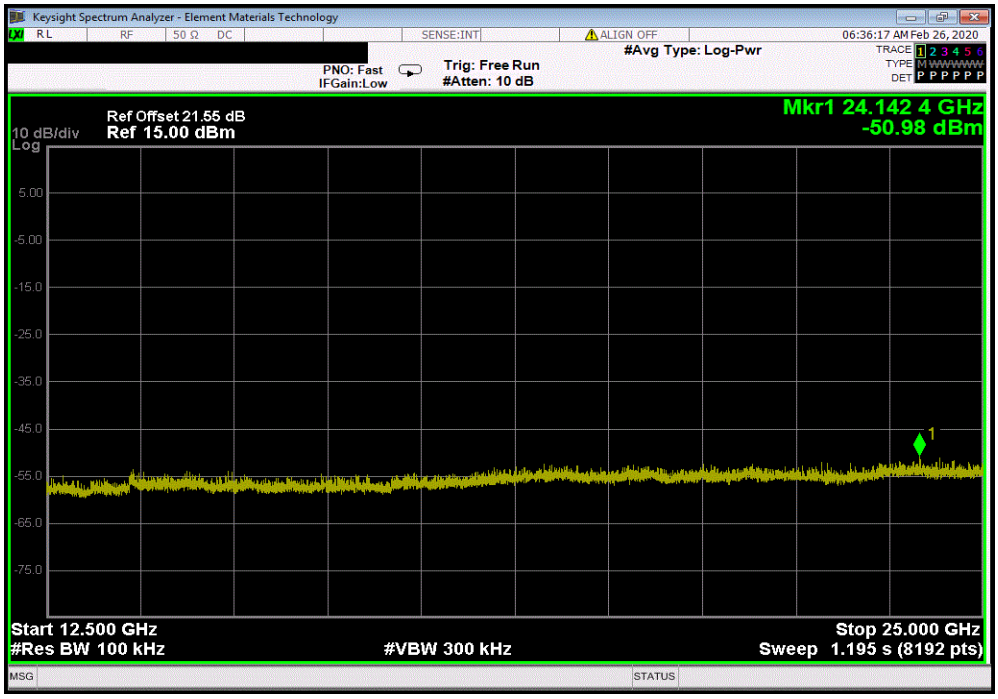
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2410.32	N/A	N/A	N/A



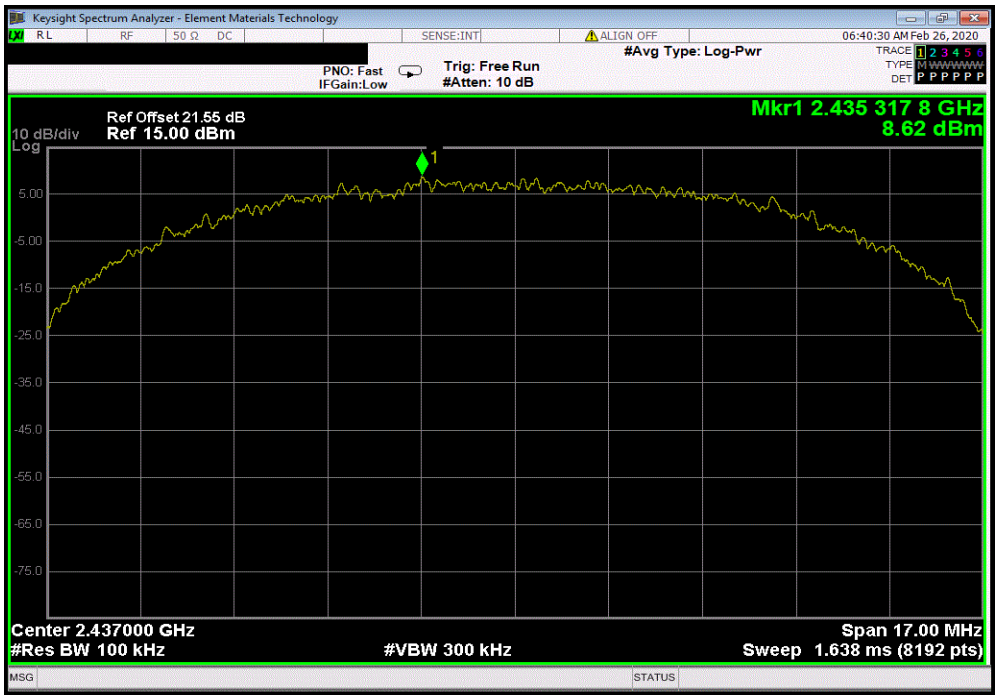
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	4822.52	-51.45	-30	Pass



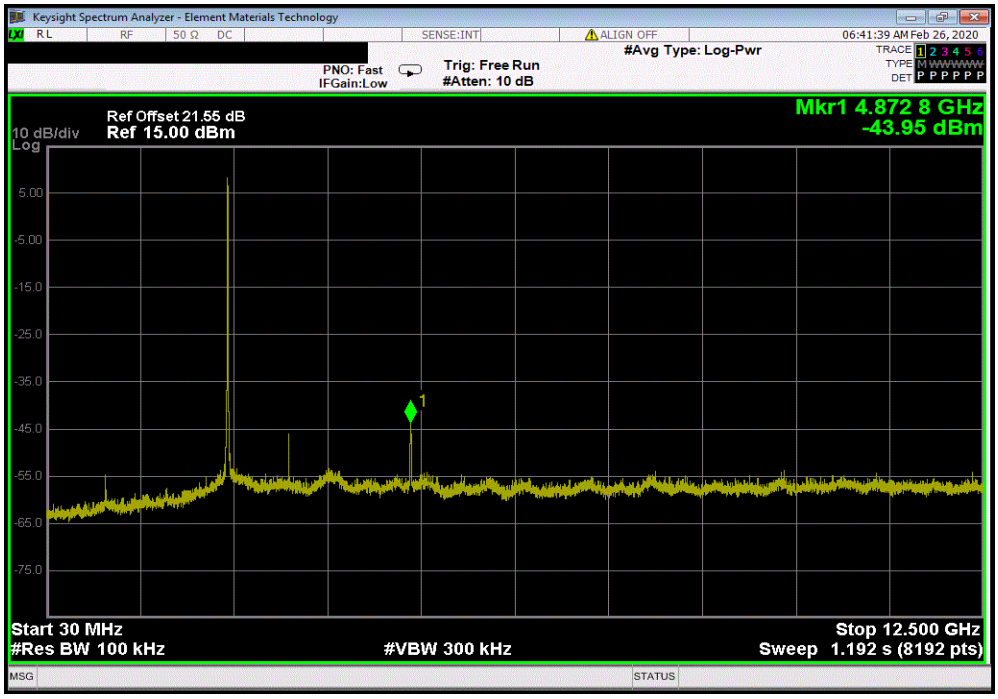
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24142.35	-60.02	-30	Pass



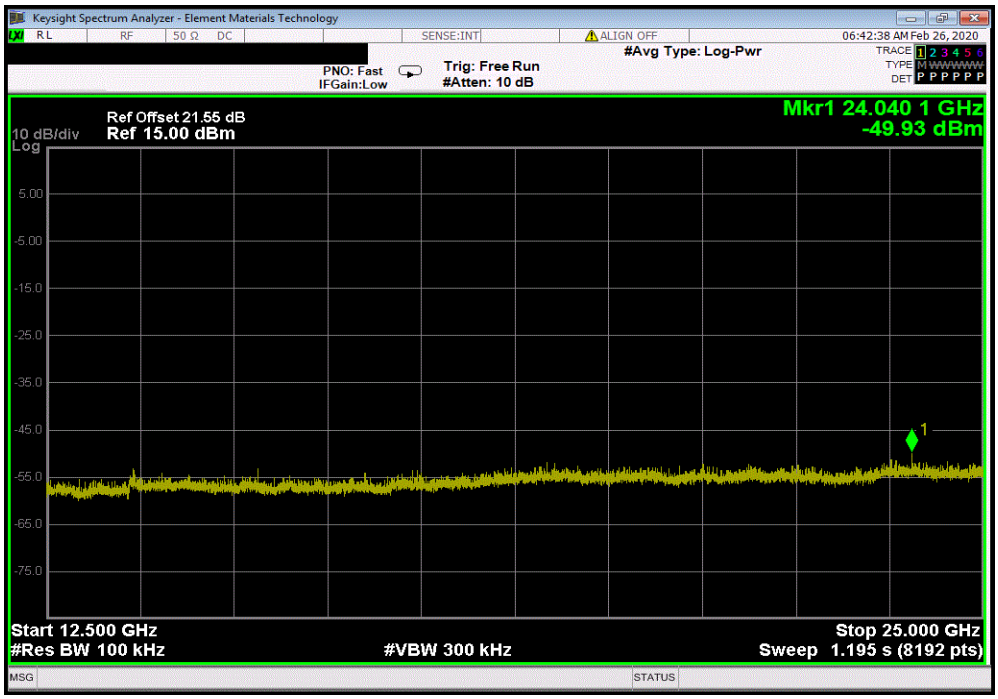
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2435.32	N/A	N/A	N/A



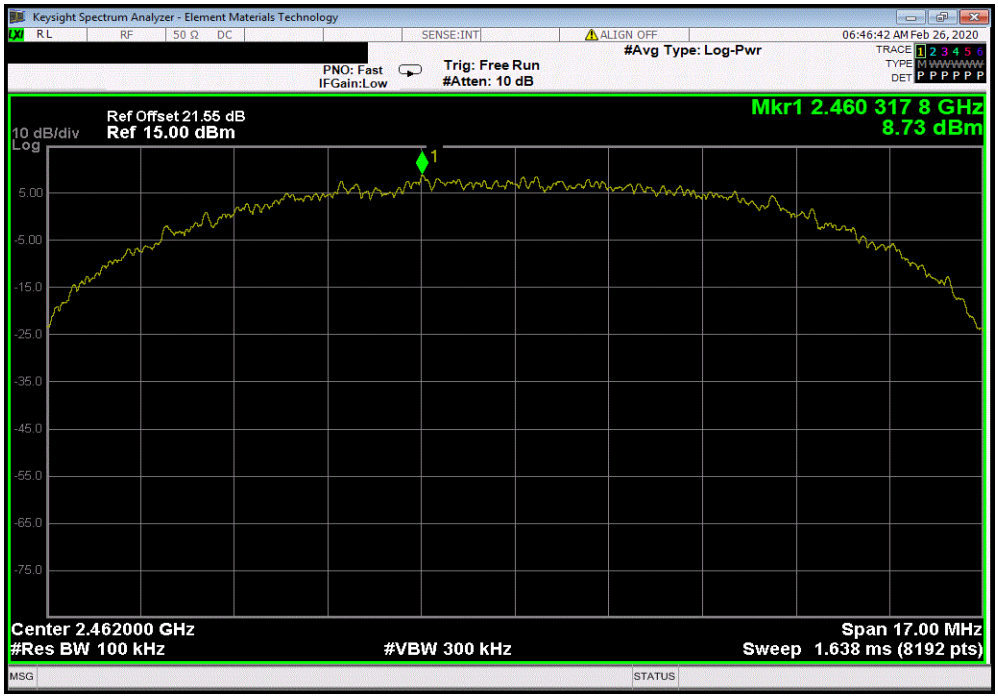
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	4872.76	-52.57	-30	Pass



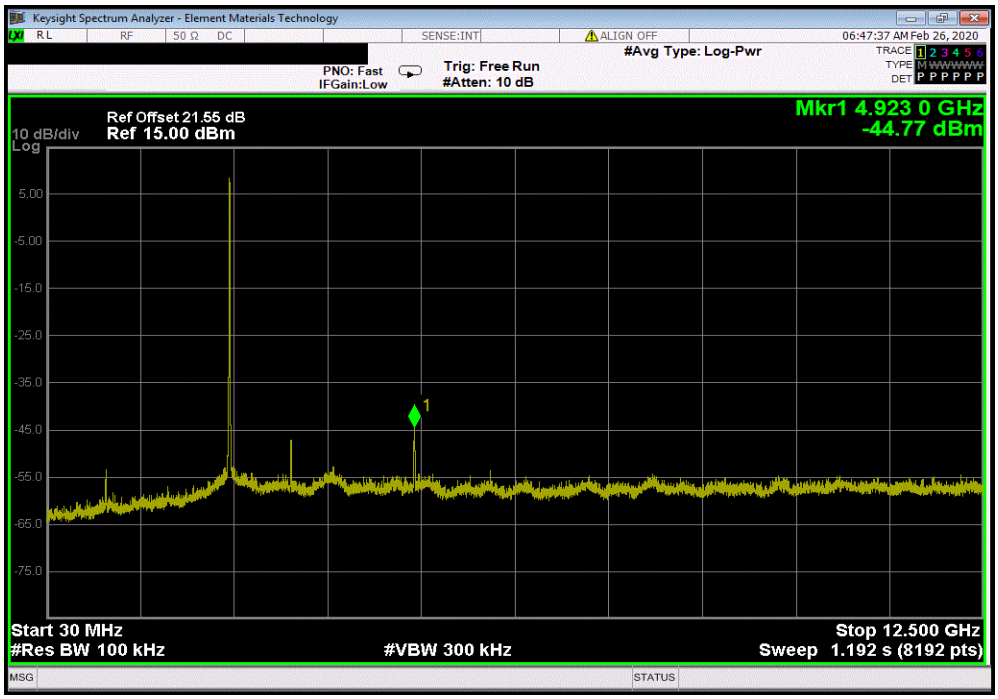
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24040.11	-58.55	-30	Pass



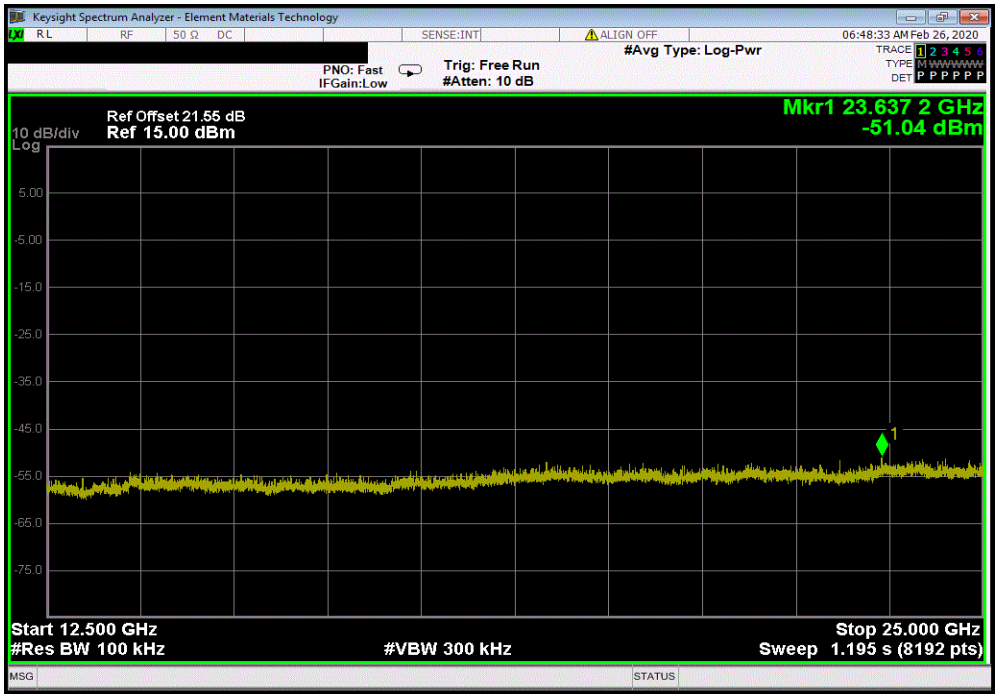
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2460.32	N/A	N/A	N/A



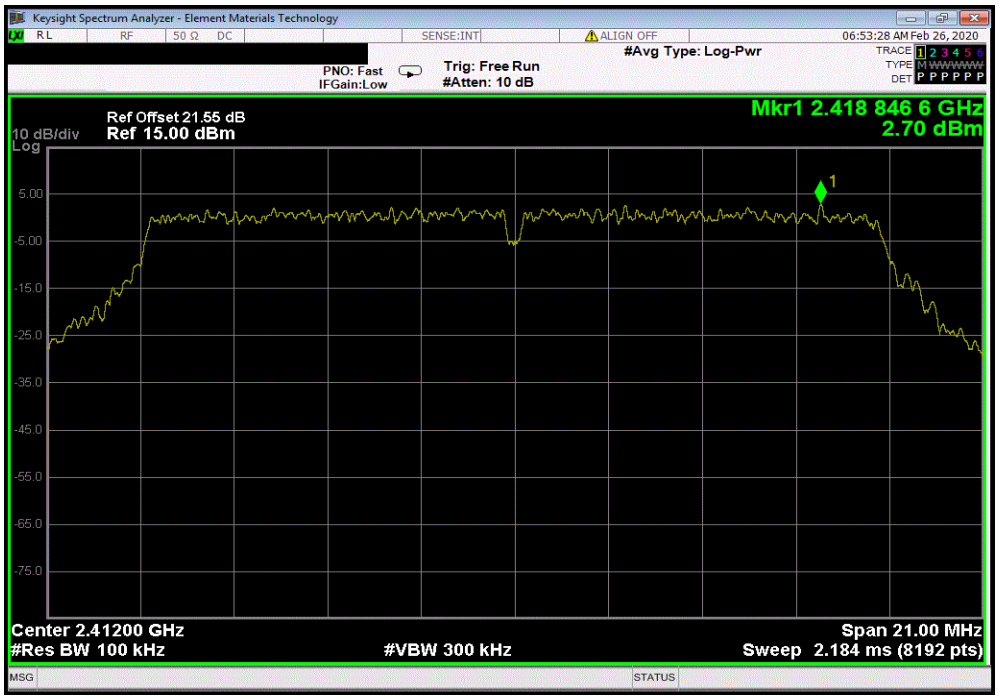
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	4923	-53.5	-30	Pass



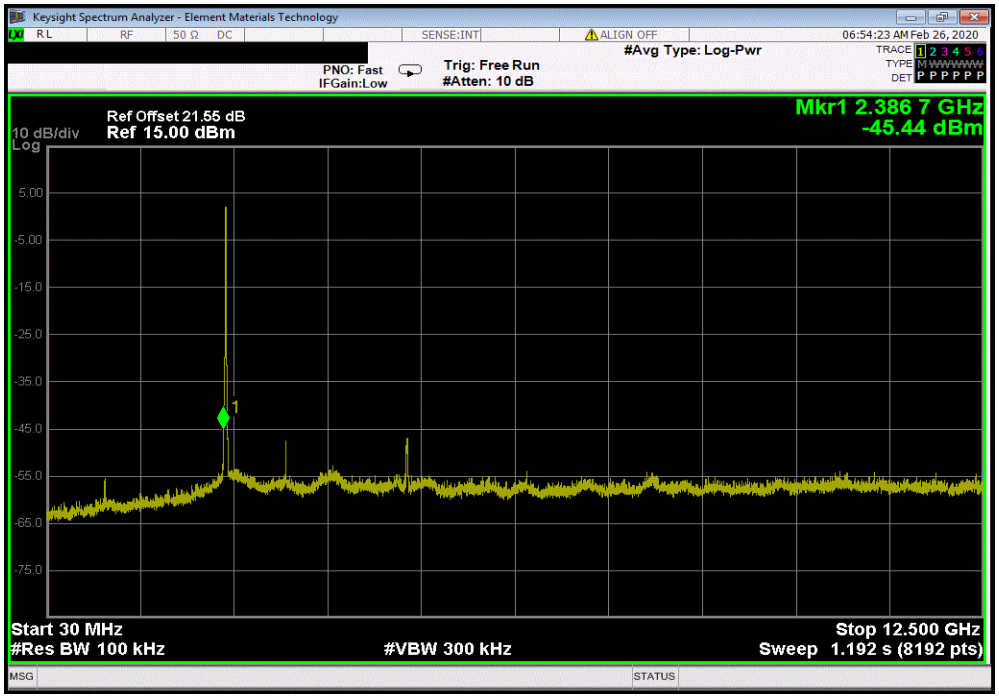
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23637.22	-59.77	-30	Pass



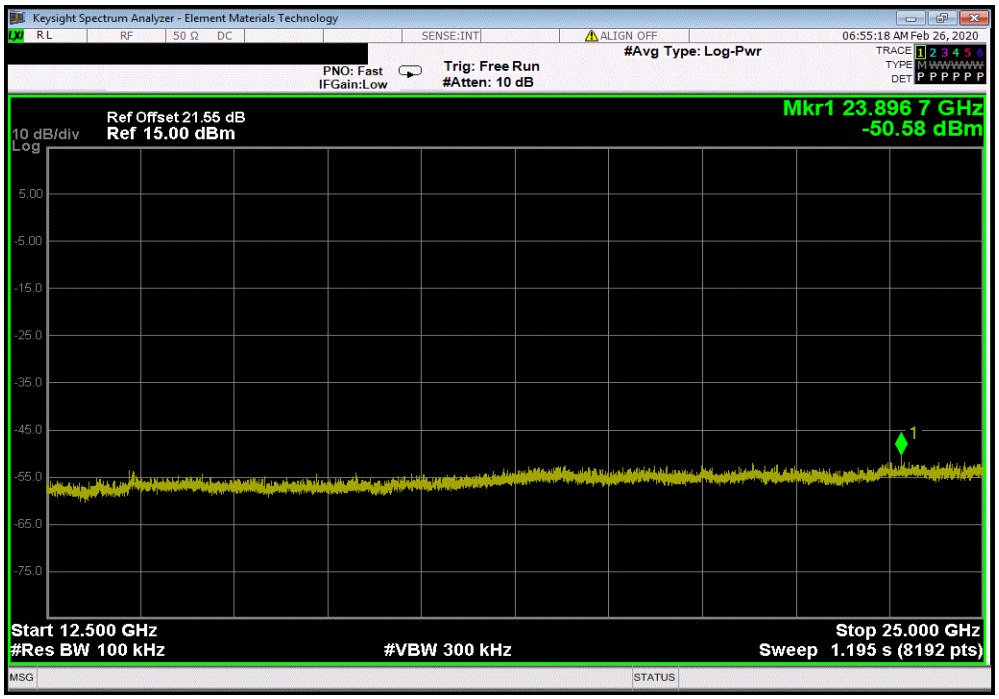
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2418.85	N/A	N/A	N/A



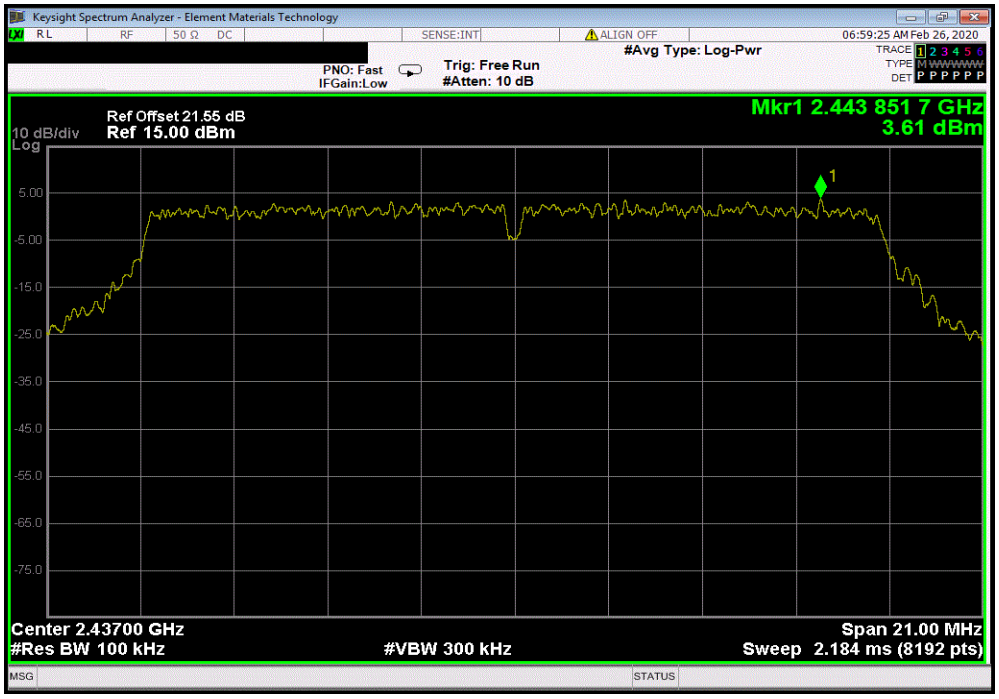
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	2386.68	-48.14	-30	Pass



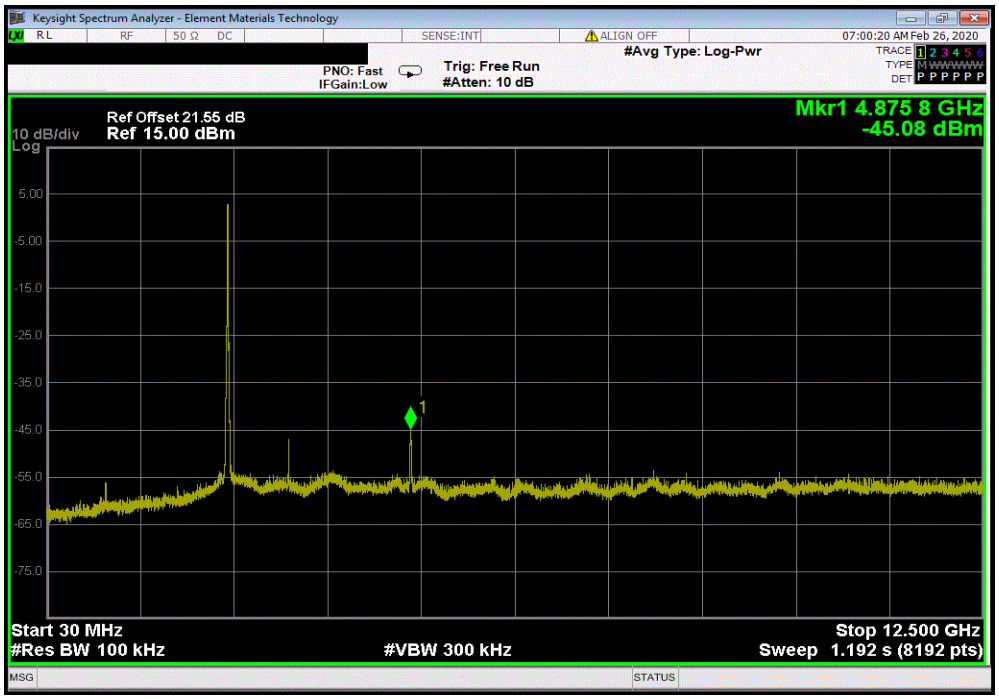
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23896.65	-53.29	-30	Pass



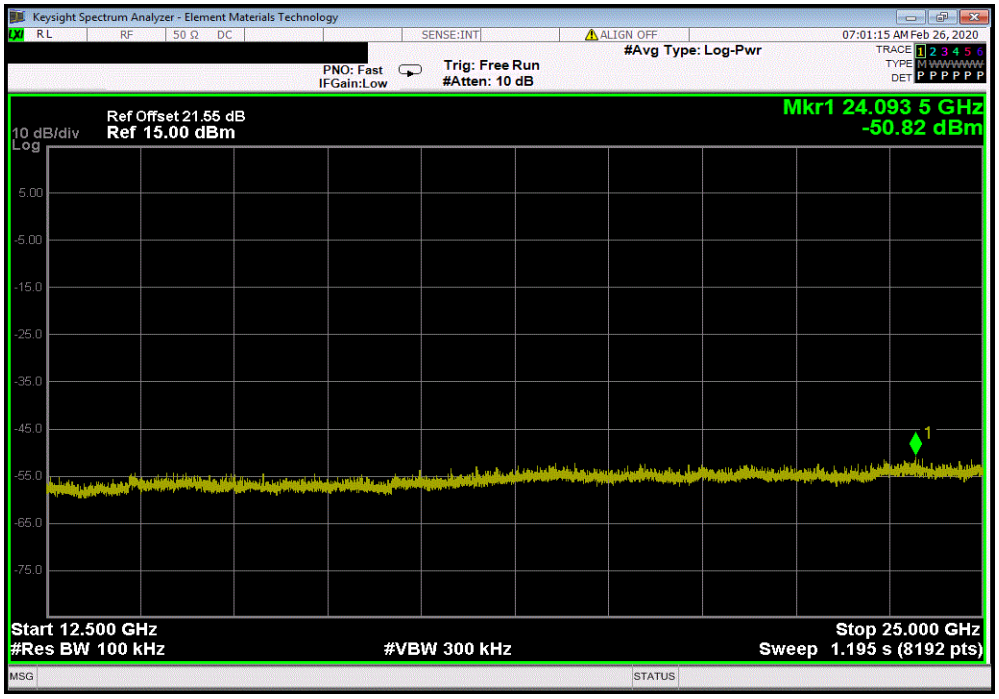
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2443.85	N/A	N/A	N/A



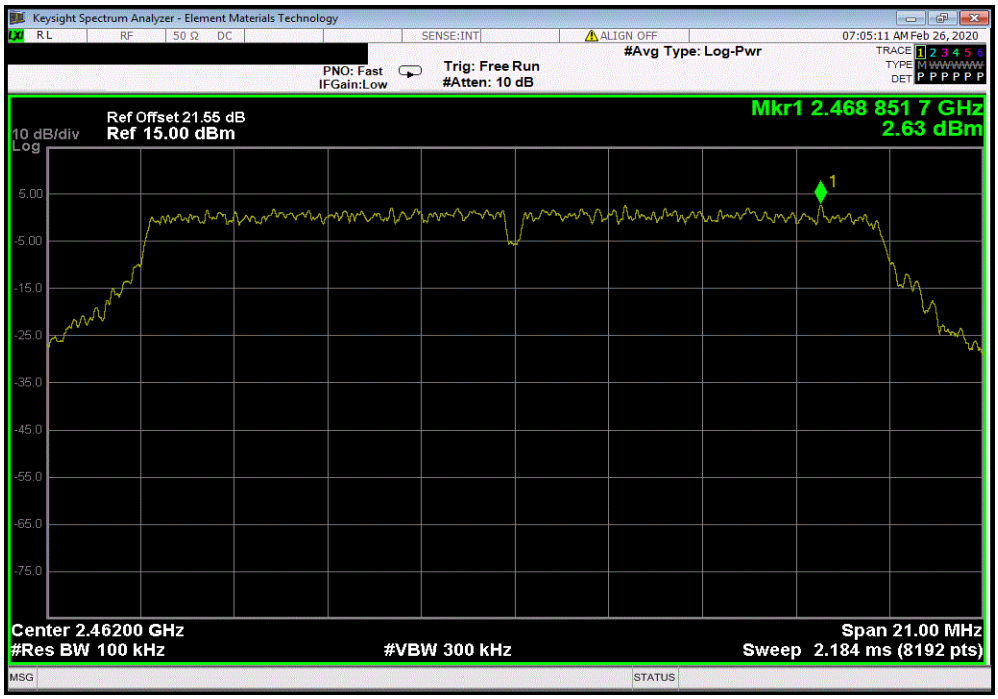
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	4875.81	-48.69	-30	Pass



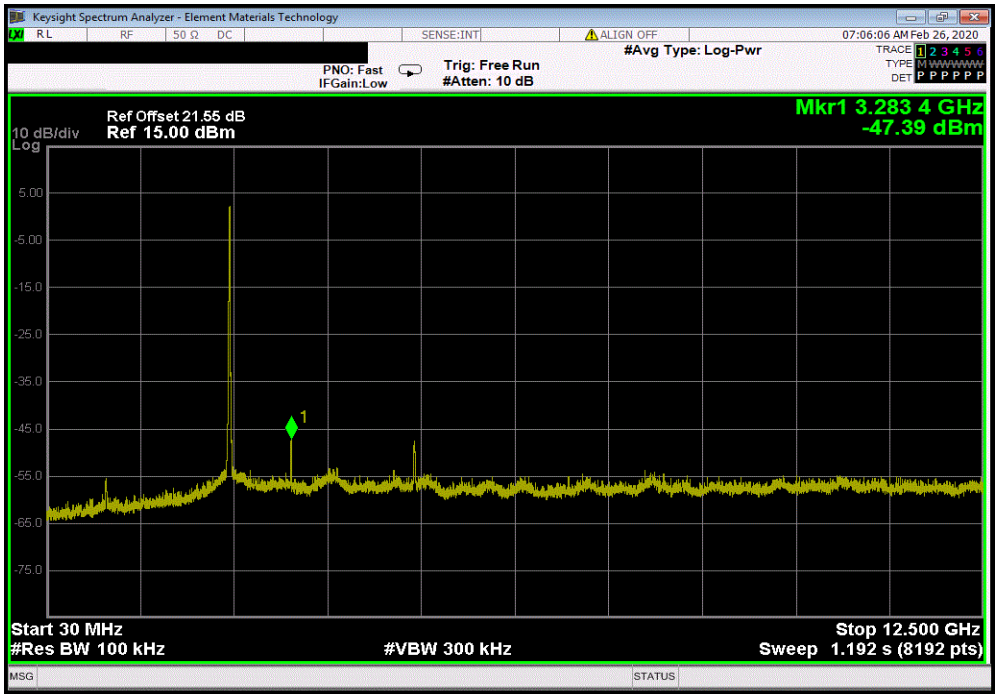
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24093.52	-54.44	-30	Pass



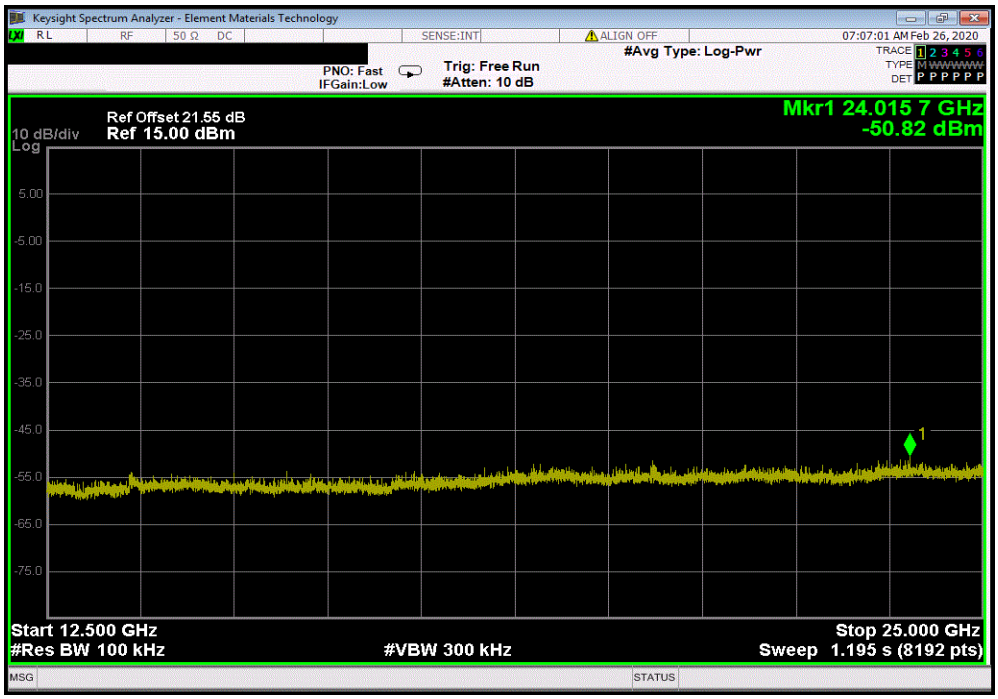
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2468.85	N/A	N/A	N/A



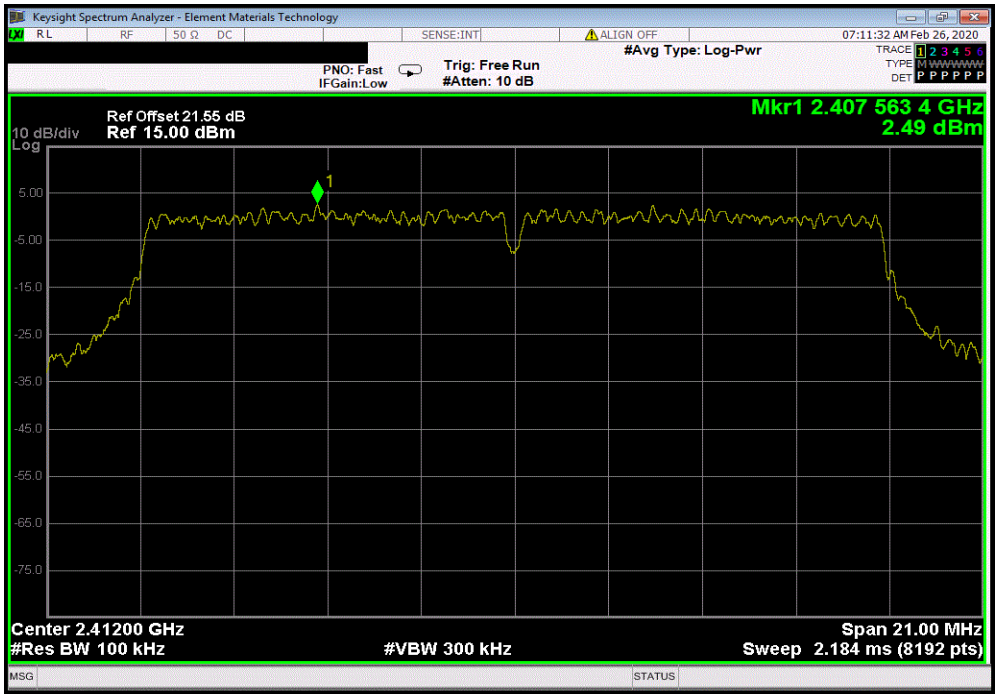
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3283.37	-50.02	-30	Pass



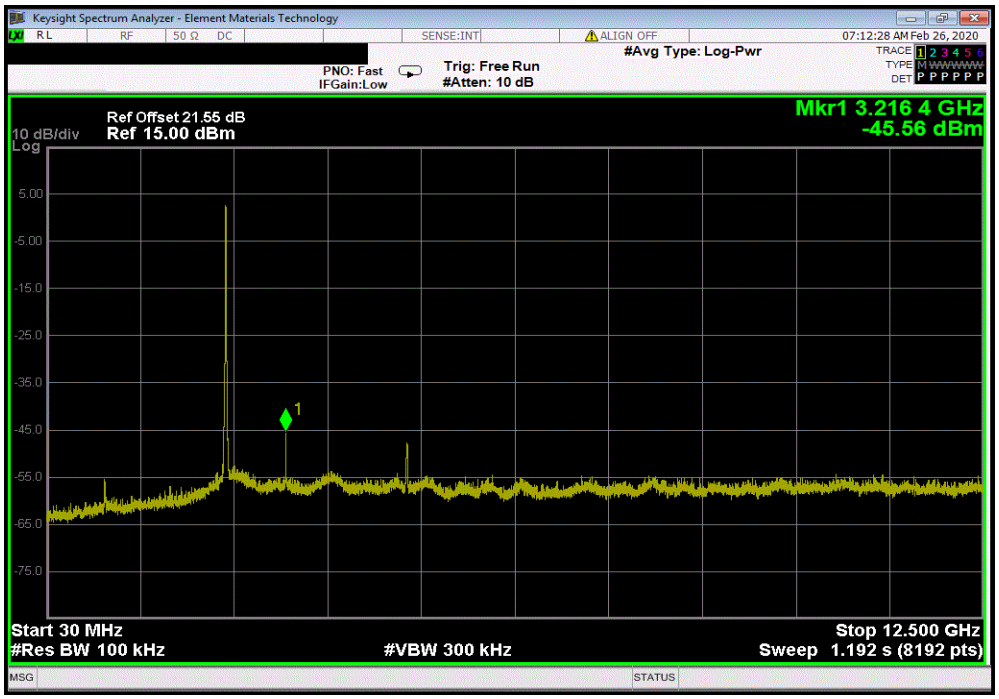
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24015.69	-53.45	-30	Pass



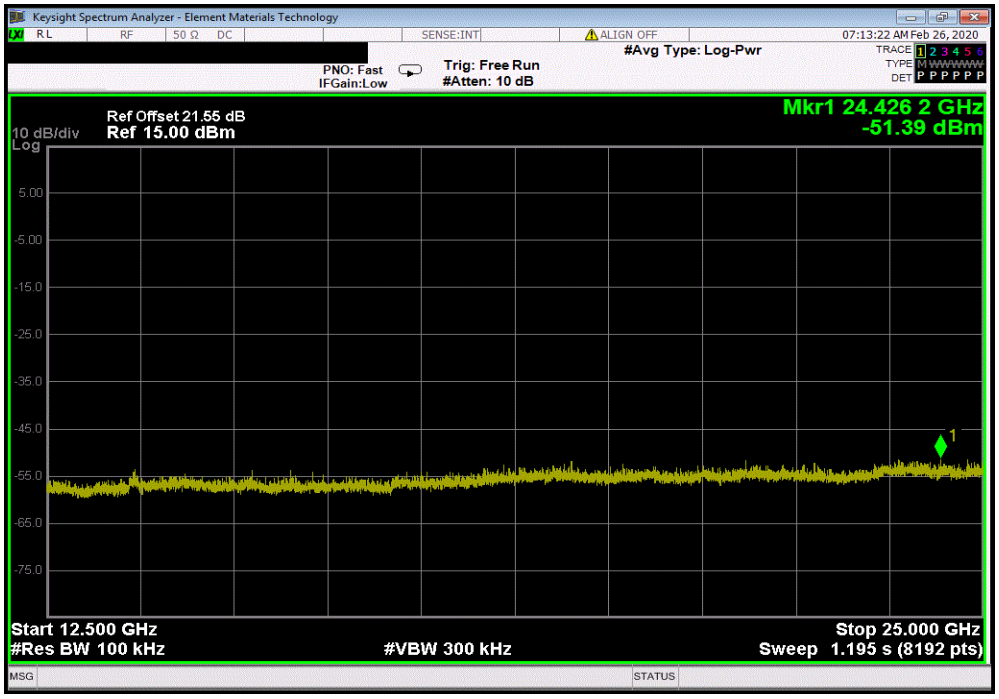
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2407.56	N/A	N/A	N/A



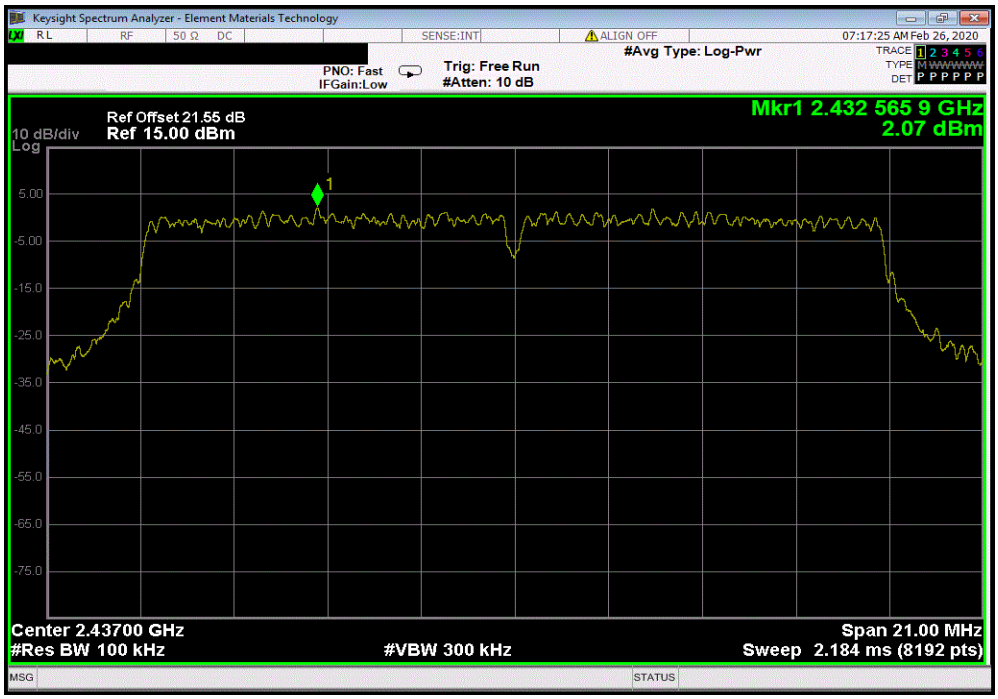
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	3216.39	-48.05	-30	Pass



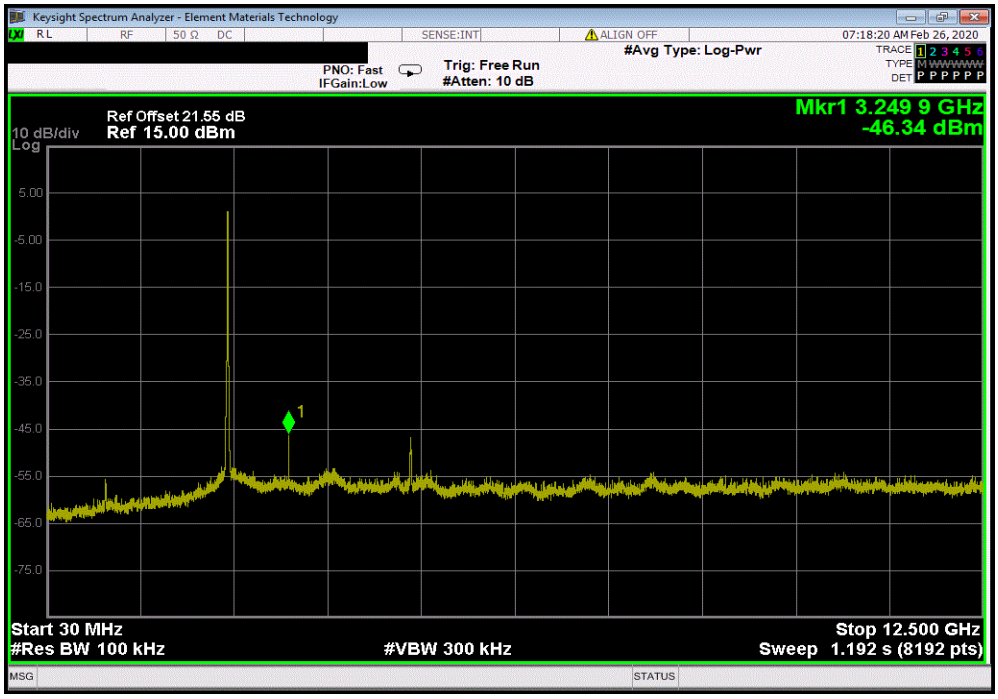
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24426.2	-53.88	-30	Pass



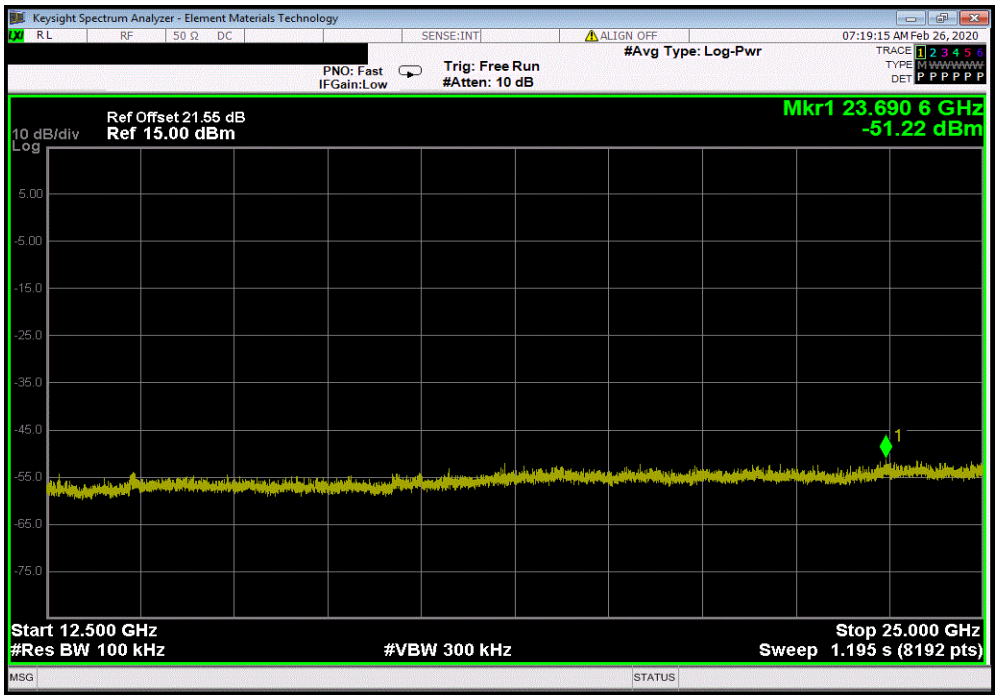
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2432.57	N/A	N/A	N/A



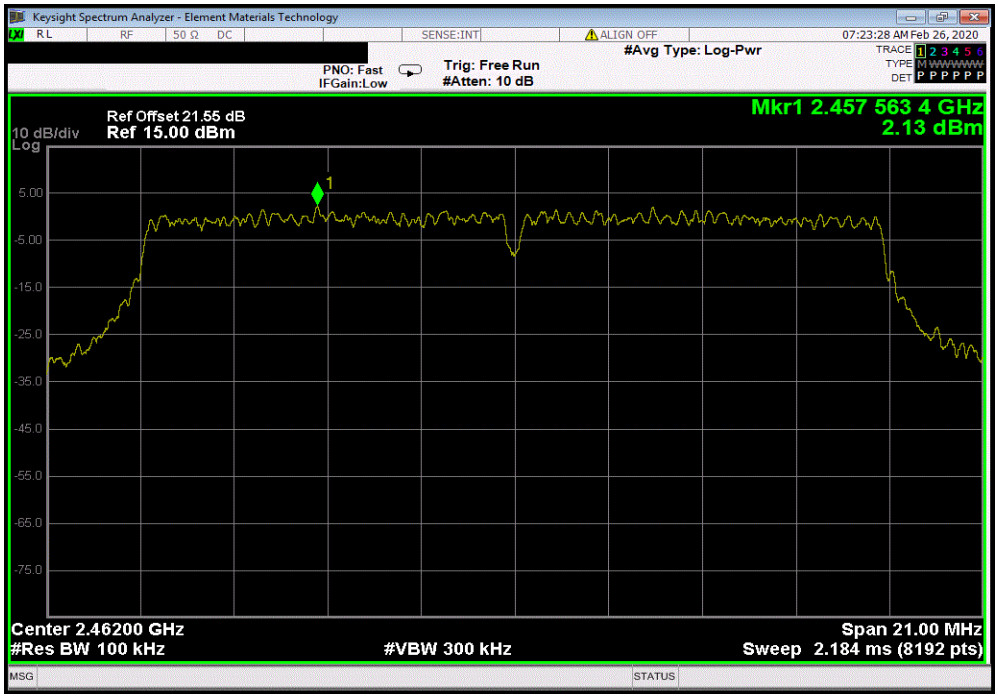
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3249.88	-48.41	-30	Pass



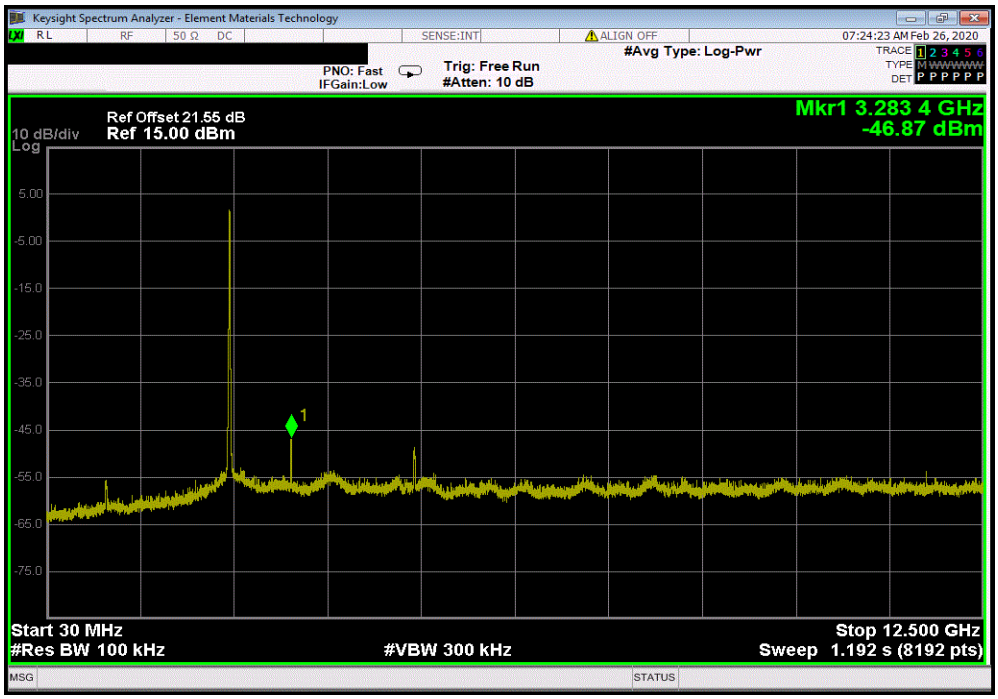
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23690.64	-53.29	-30	Pass



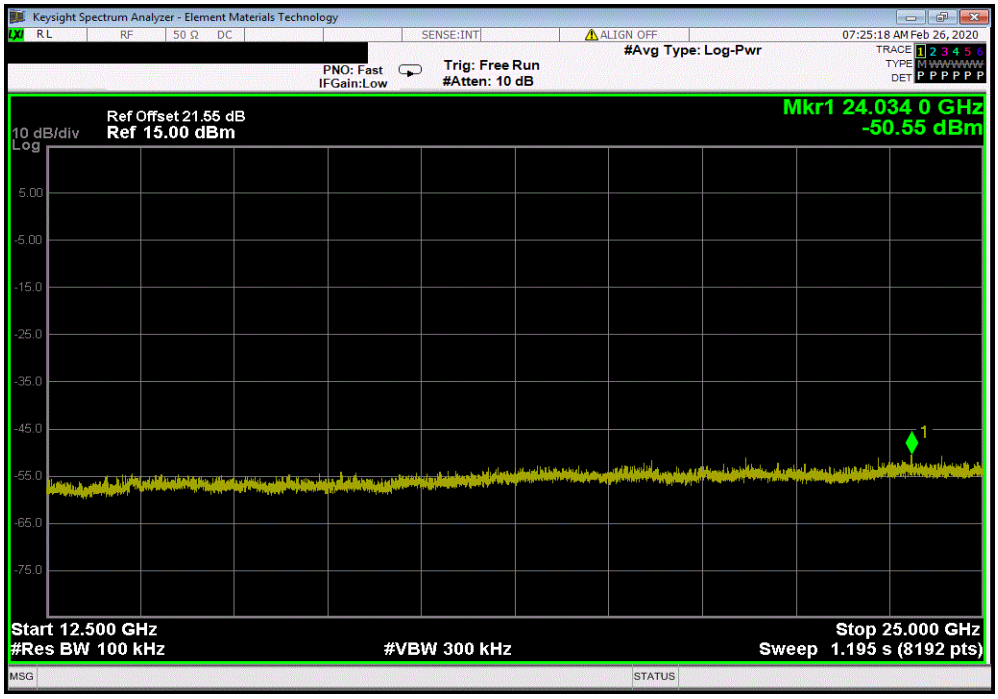
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2457.56	N/A	N/A	N/A



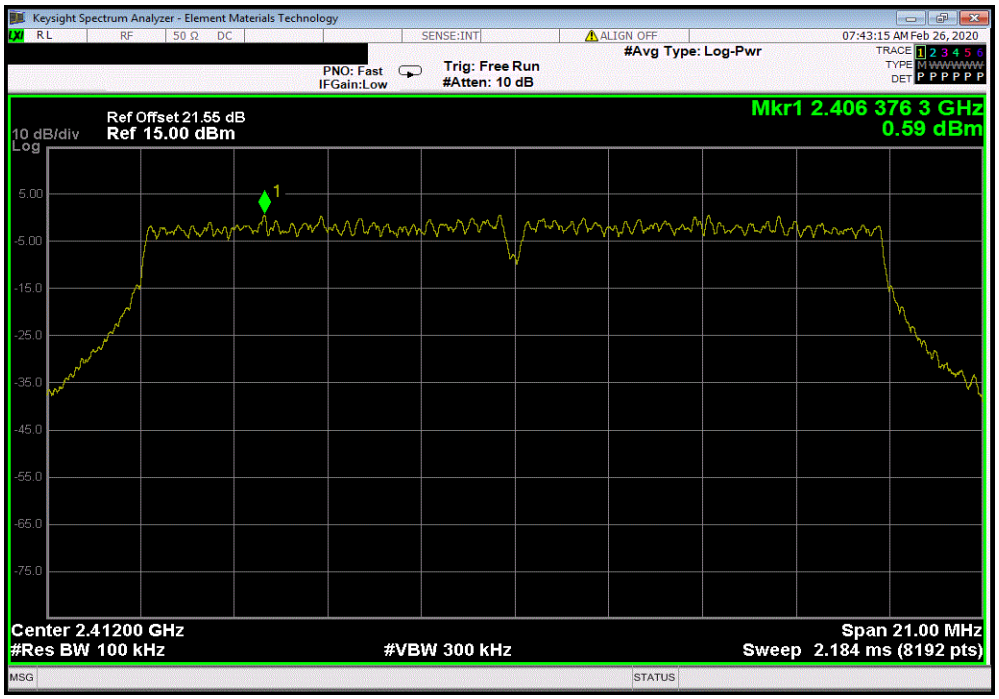
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3283.37	-49	-30	Pass



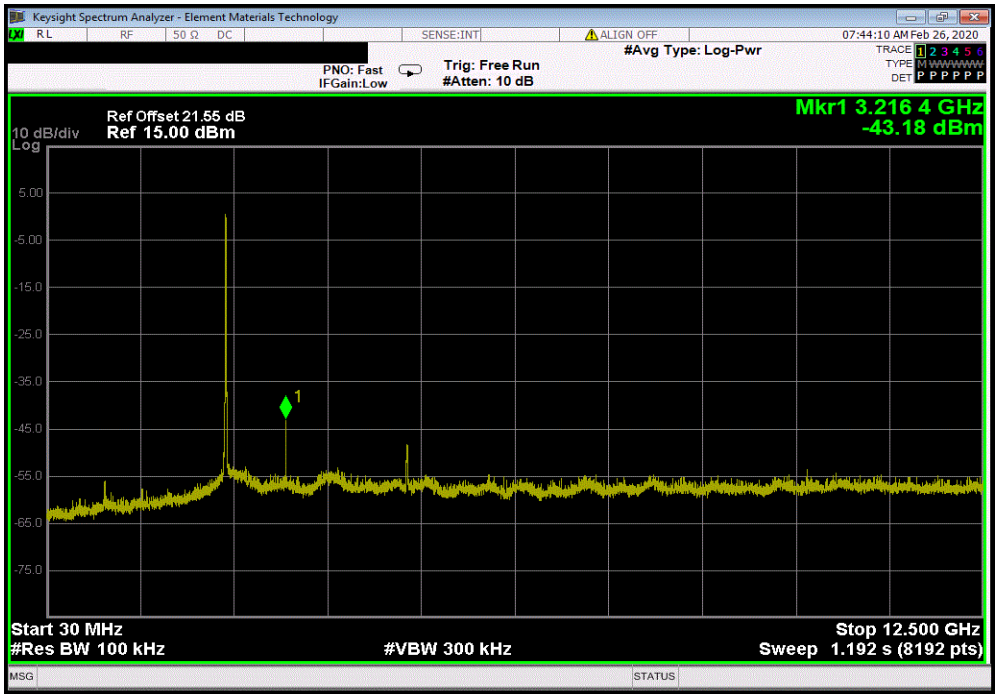
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24034	-52.68	-30	Pass



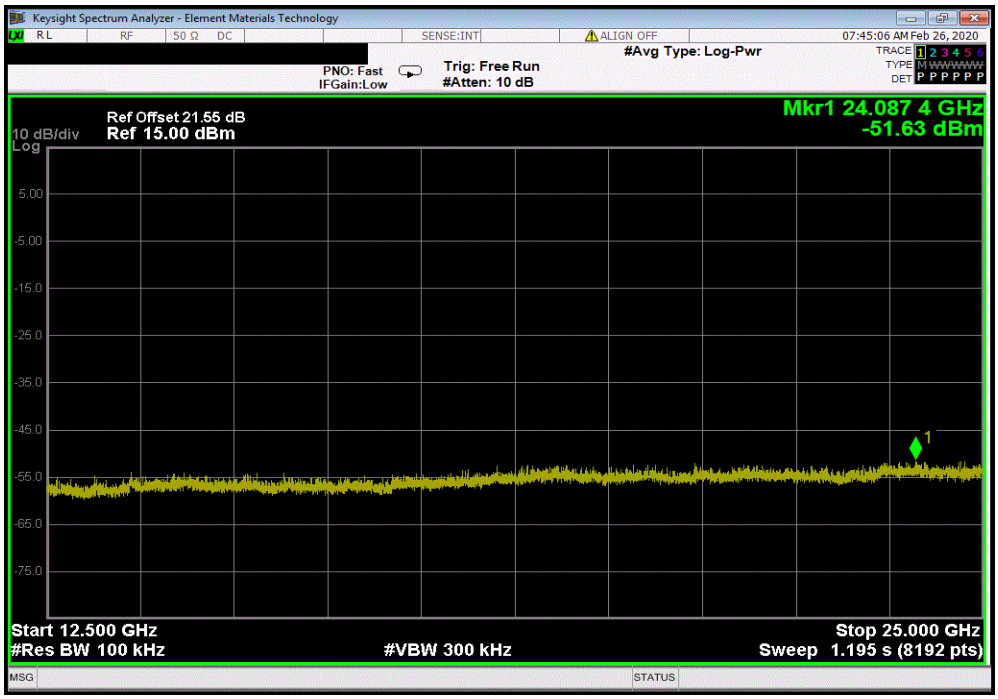
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2406.38	N/A	N/A	N/A



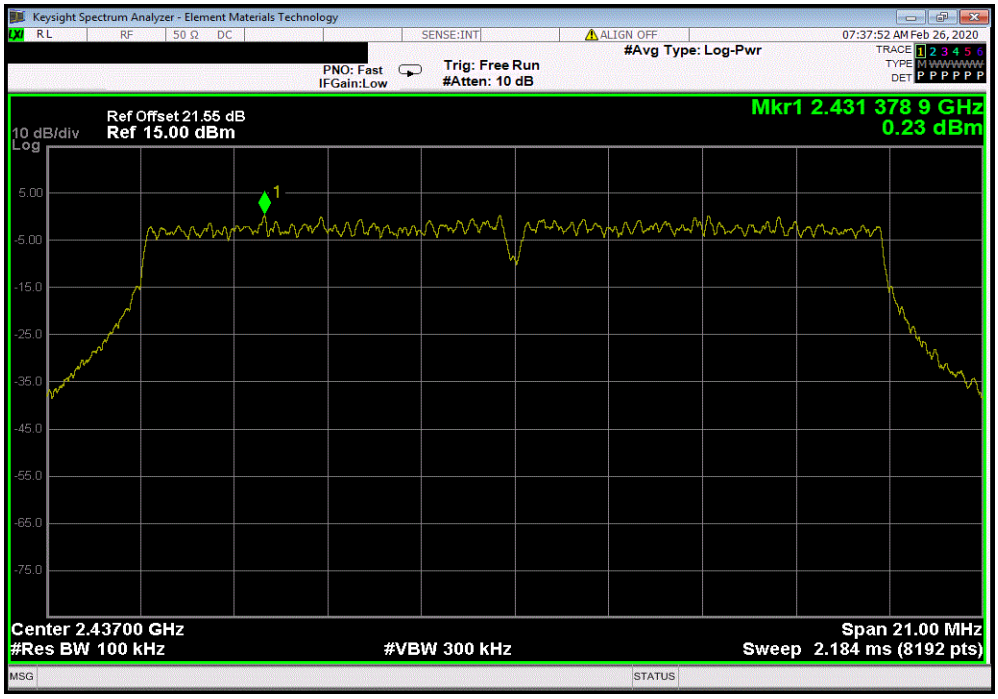
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3216.39	-43.77	-30	Pass



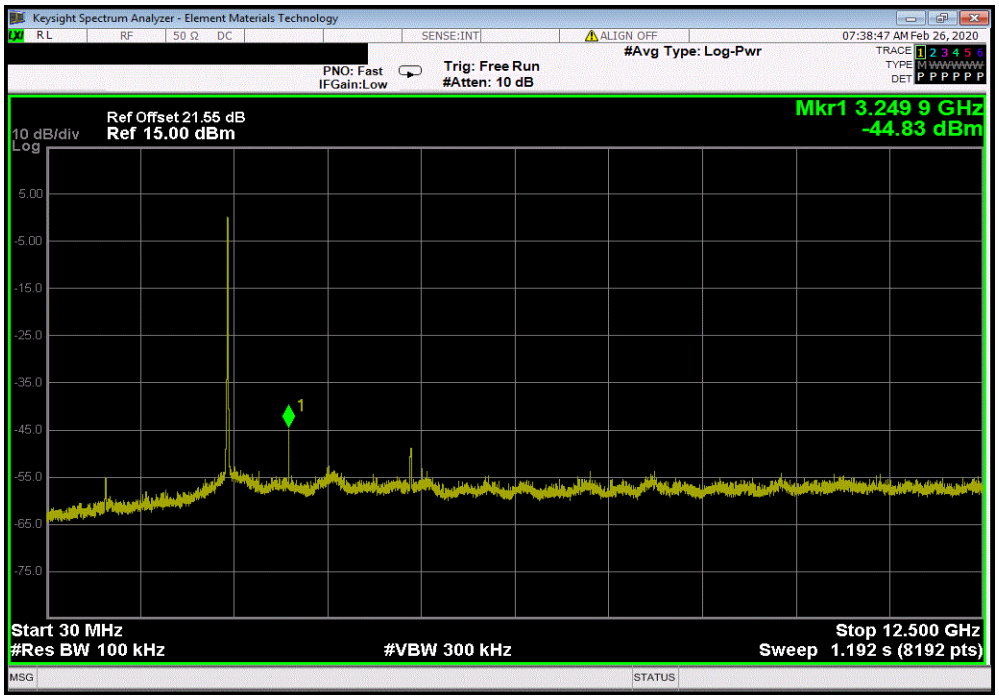
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24087.41	-52.22	-30	Pass



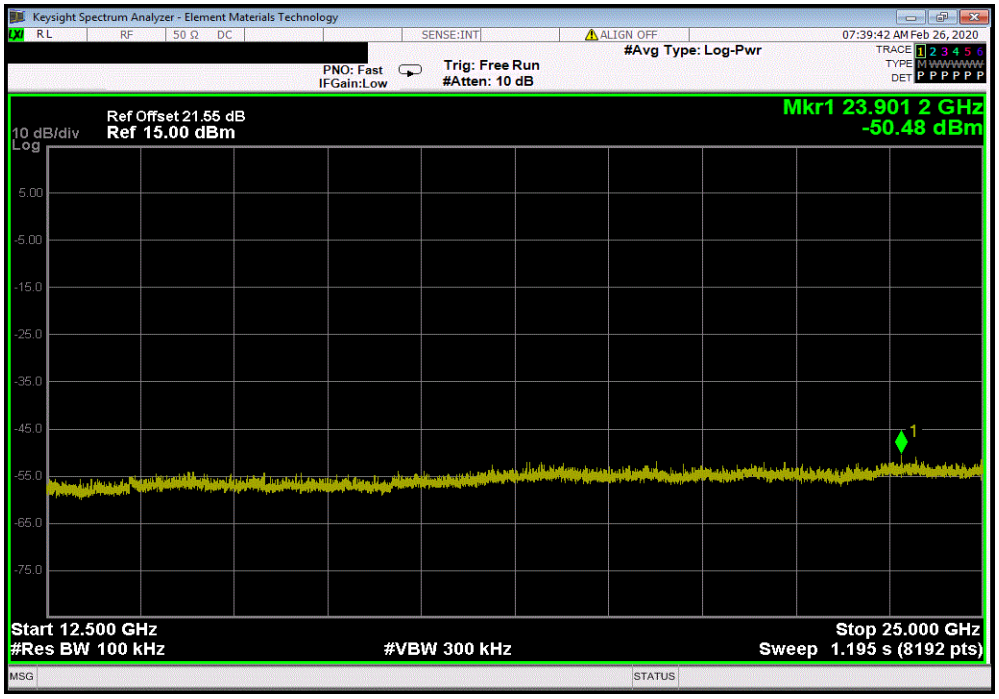
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2431.38	N/A	N/A	N/A



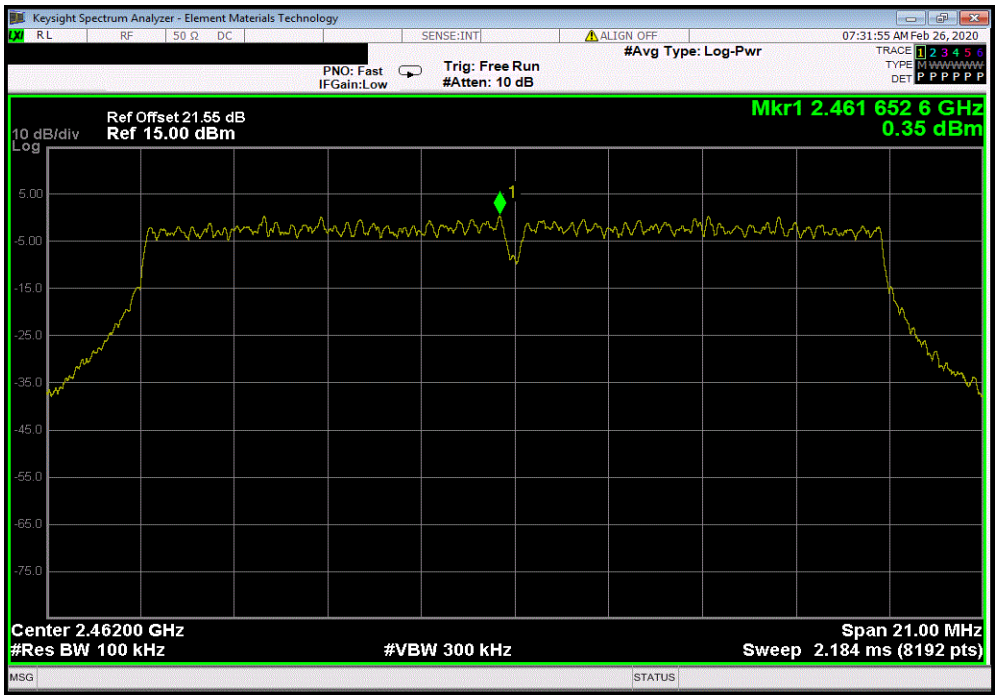
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	3249.88	-45.06	-30	Pass



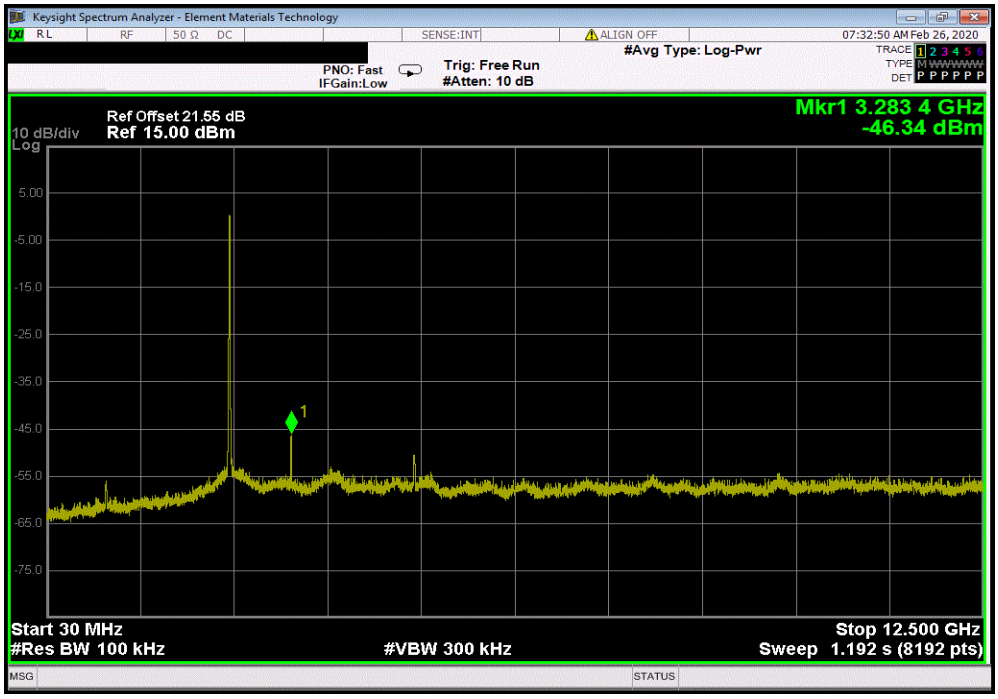
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	23901.23	-50.71	-30	Pass



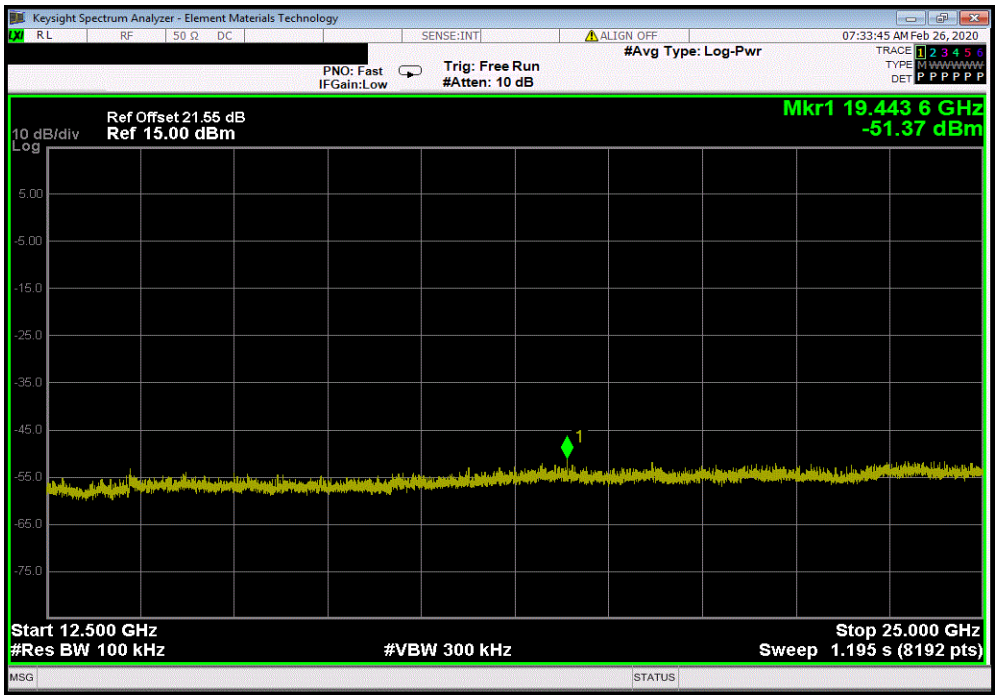
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2461.65	N/A	N/A	N/A



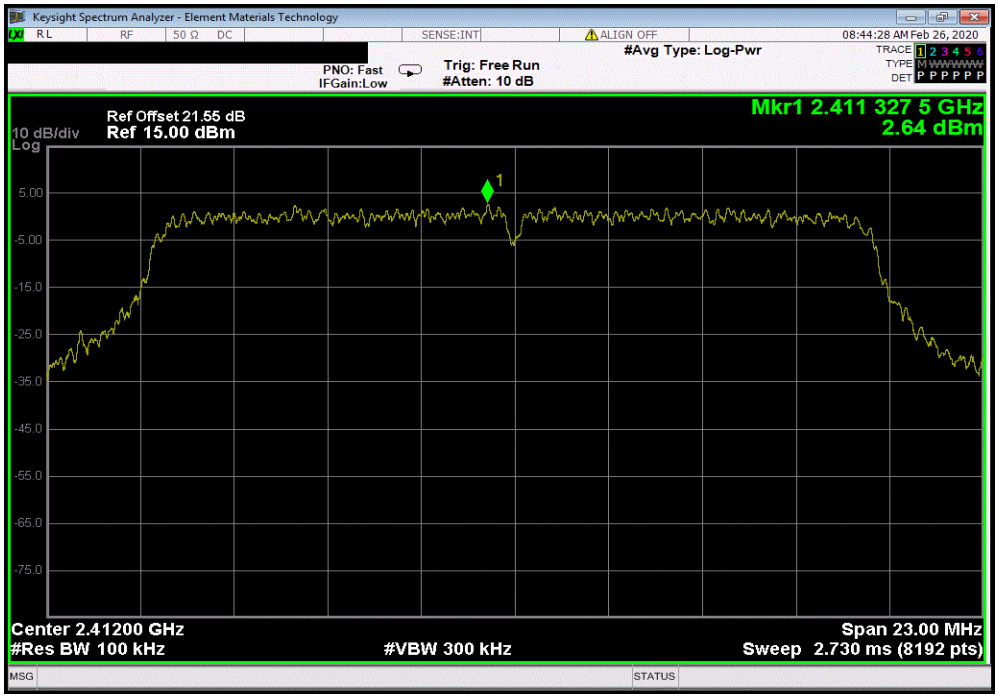
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3283.37	-46.69	-30	Pass



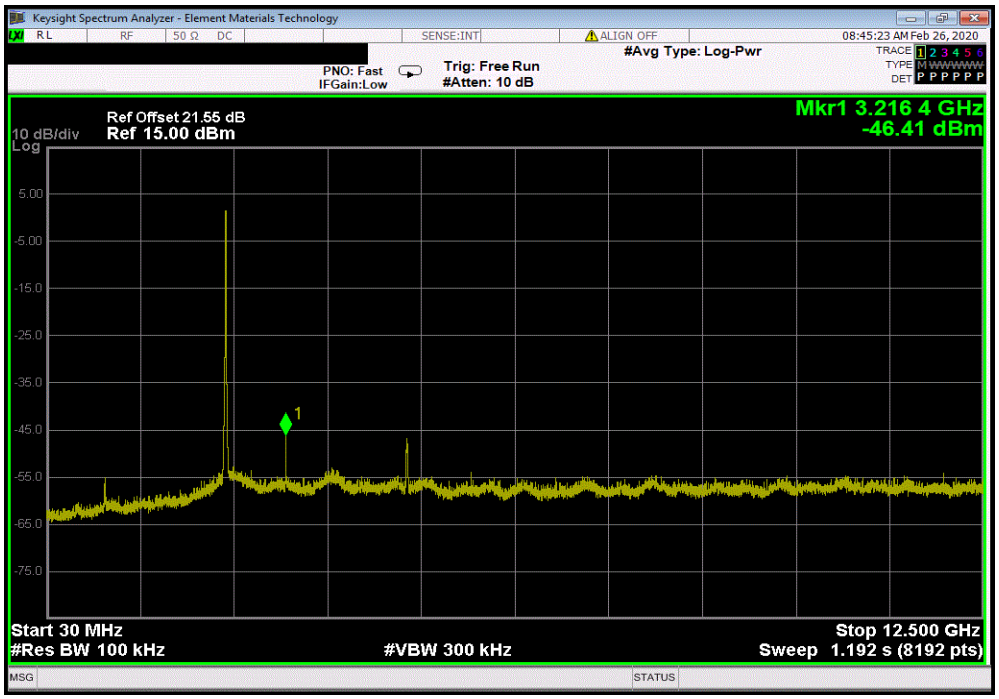
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	19443.6	-51.72	-30	Pass



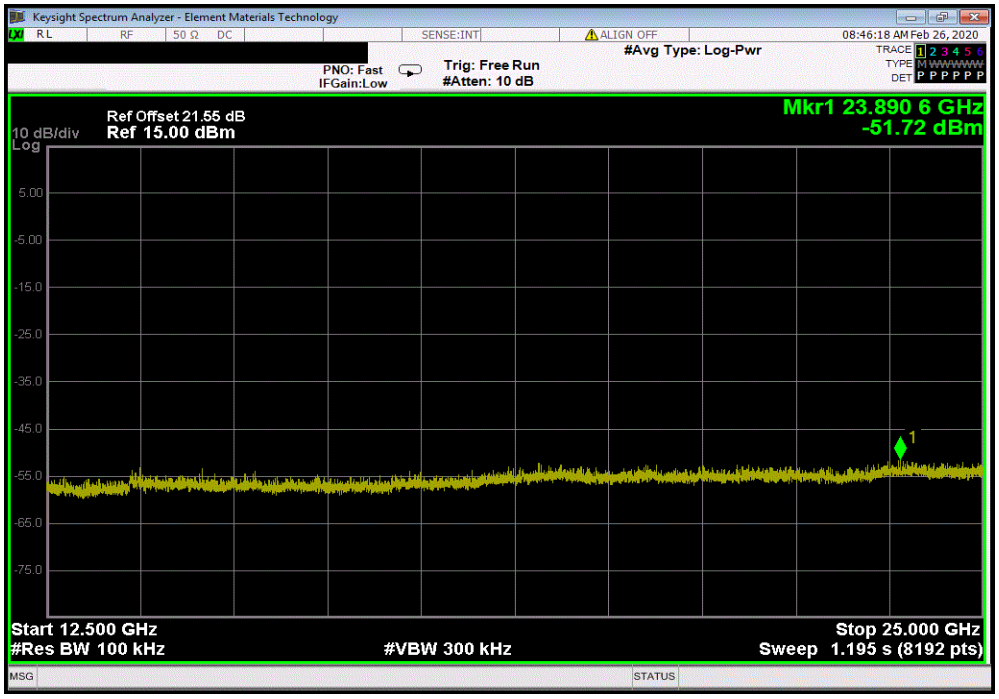
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2411.33	N/A	N/A	N/A



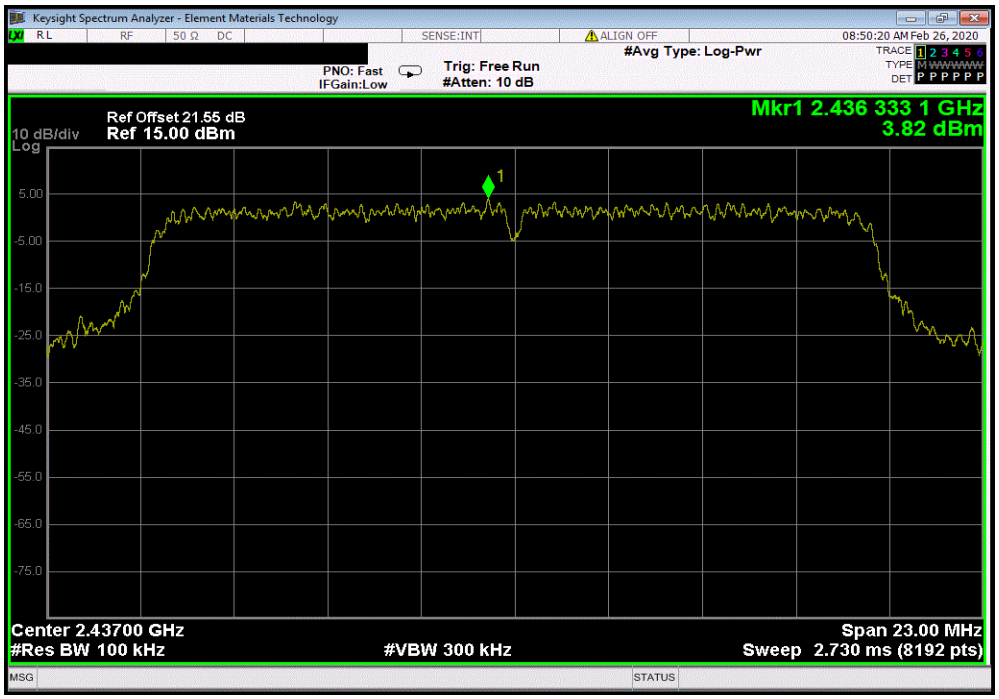
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3216.39	-49.05	-30	Pass



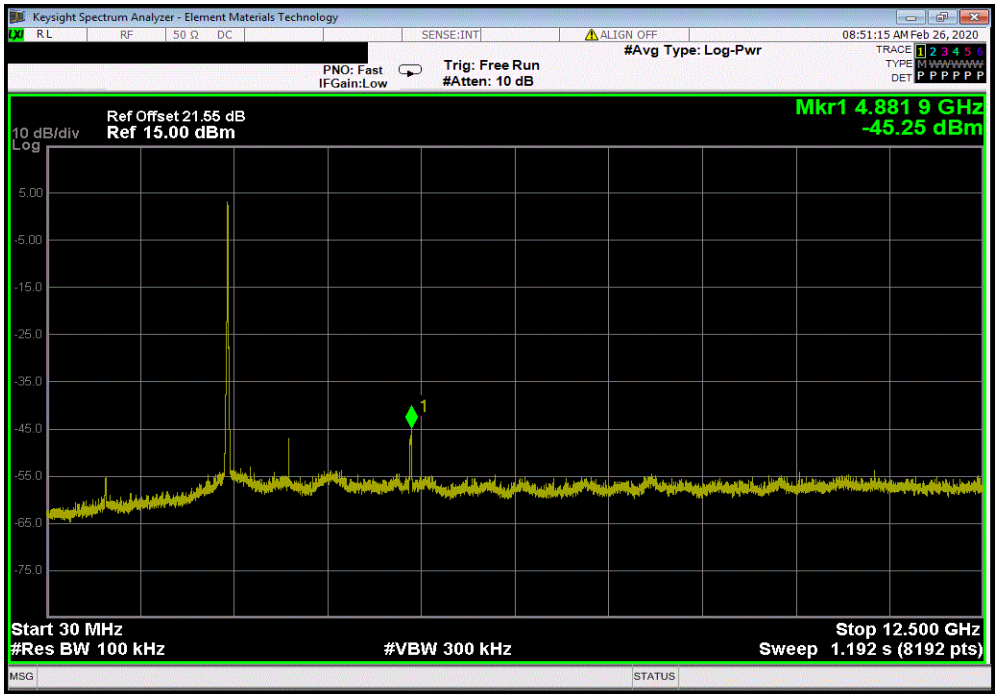
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23890.55	-54.36	-30	Pass



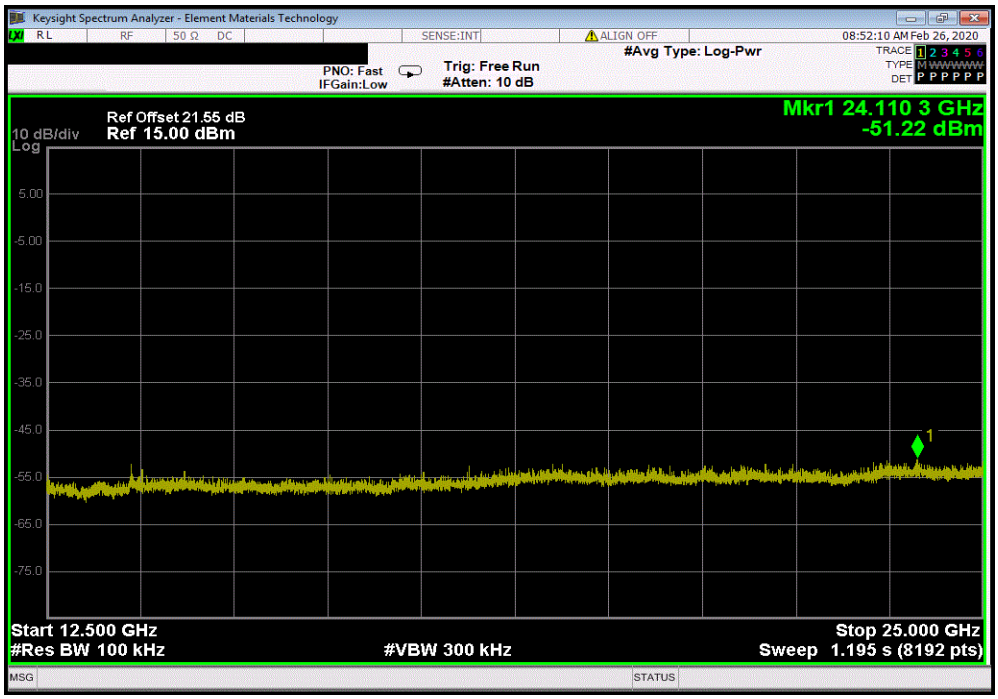
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2436.33	N/A	N/A	N/A



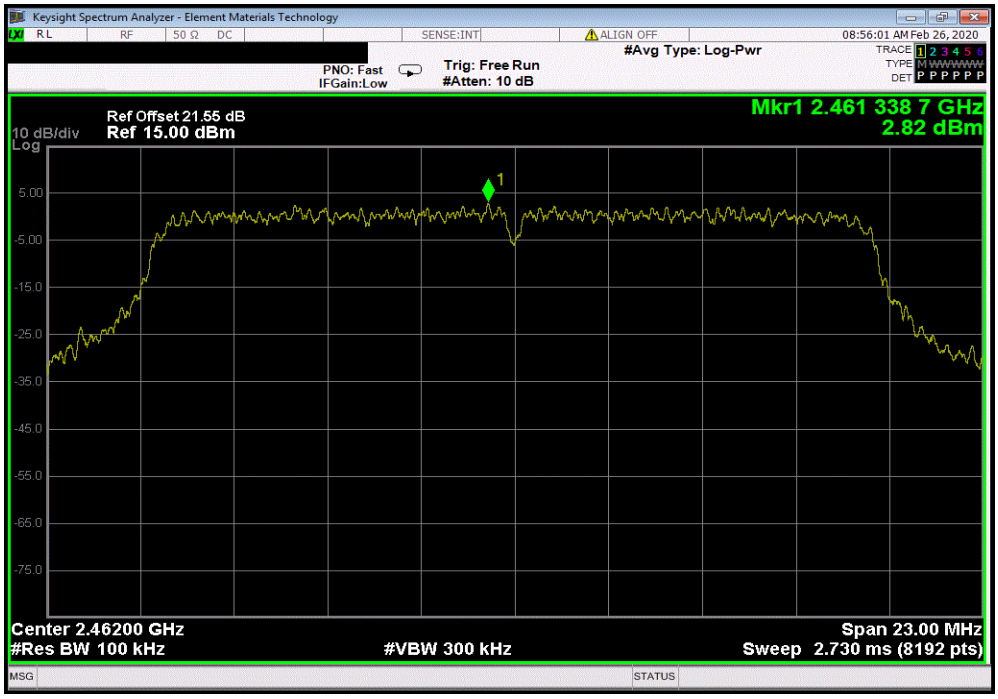
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	4881.9	-49.07	-30	Pass



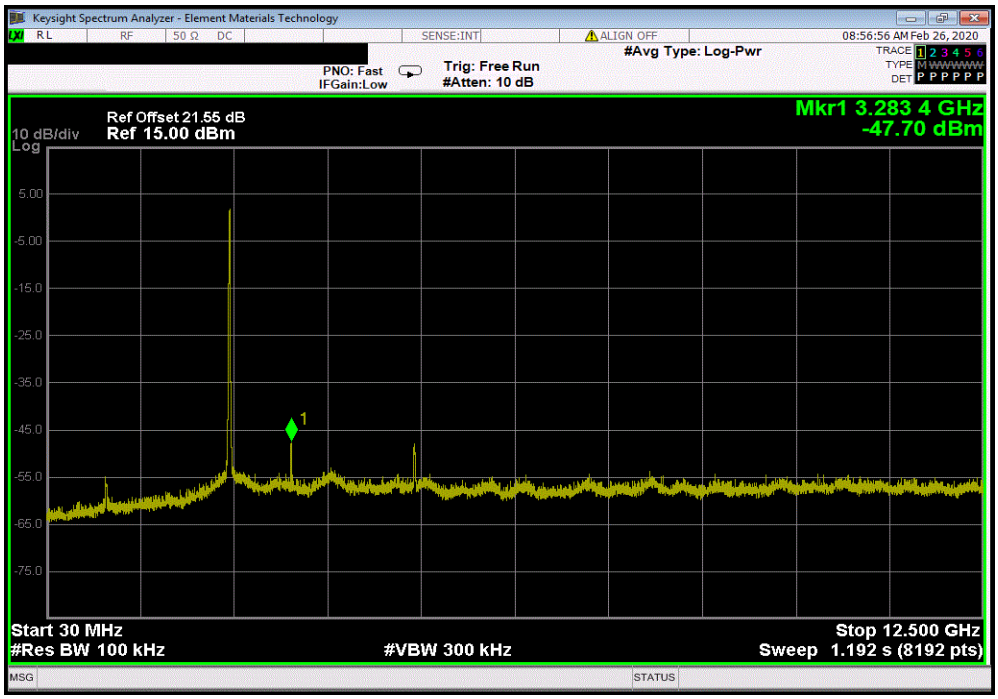
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24110.3	-55.04	-30	Pass



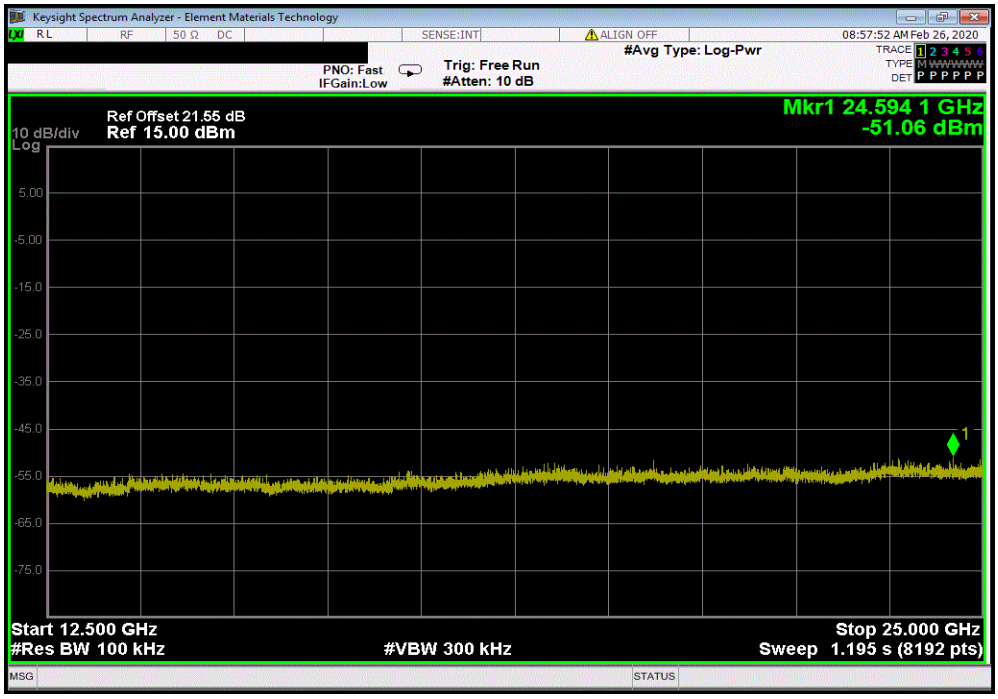
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2461.34	N/A	N/A	N/A



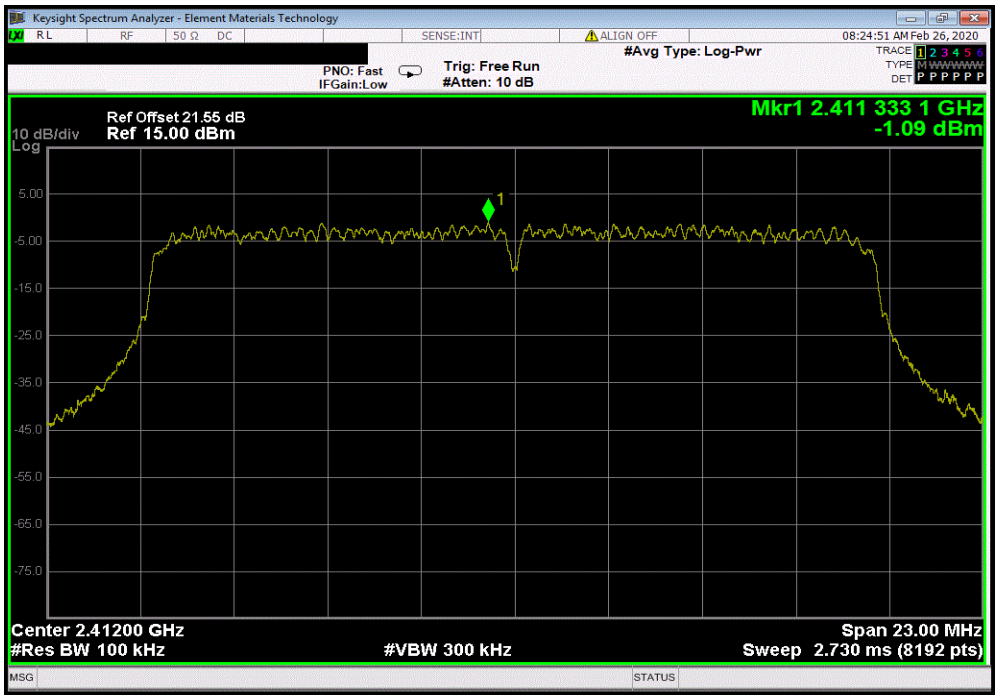
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3283.37	-50.52	-30	Pass



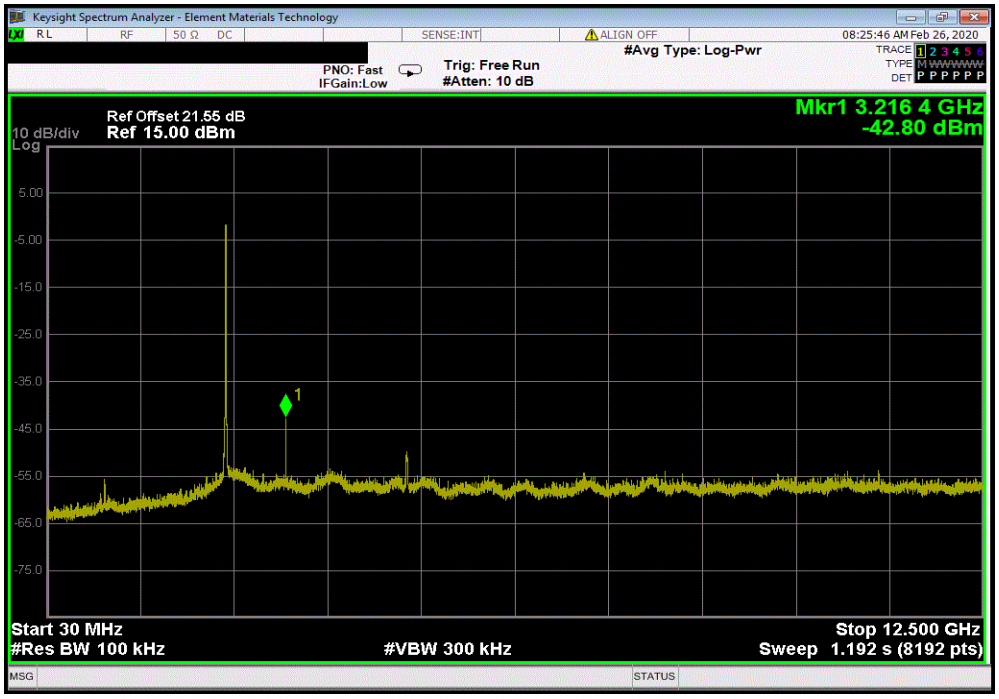
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS0, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24594.07	-53.88	-30	Pass



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

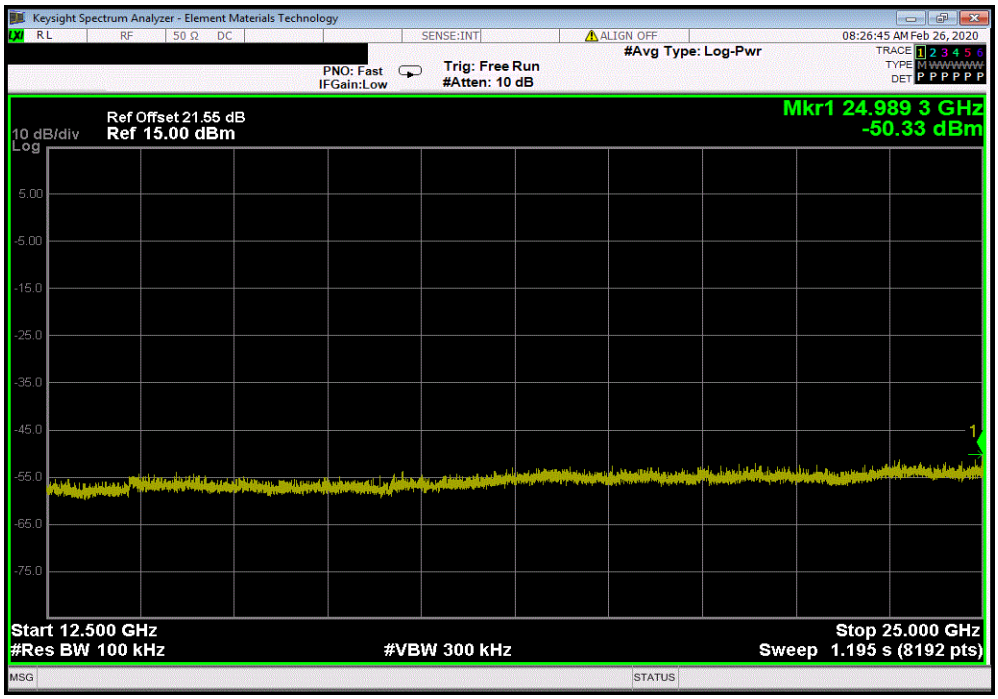


SPURIOUS CONDUCTED EMISSIONS

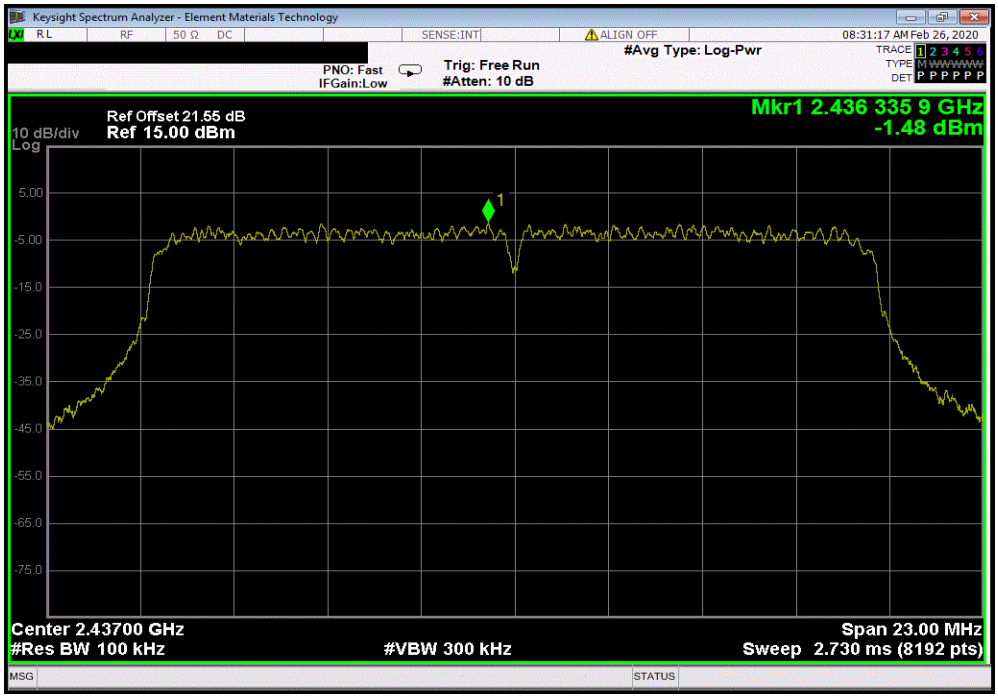
element

TbtTx 2019.08.30.0 XMit 2019.09.05

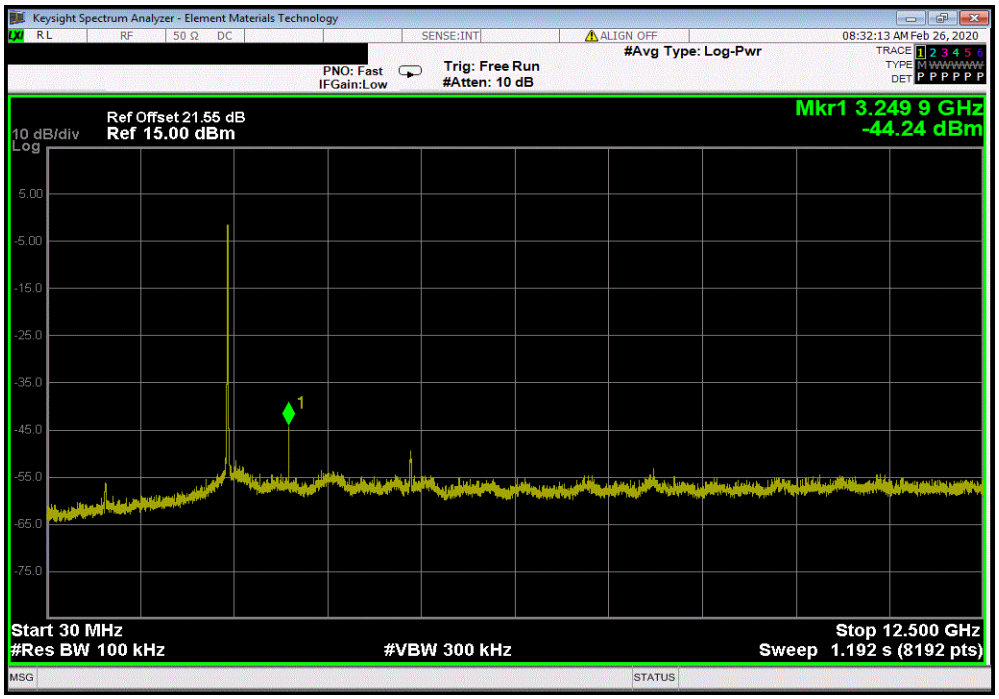
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1, 2412 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24989.32	-49.24	-30	Pass



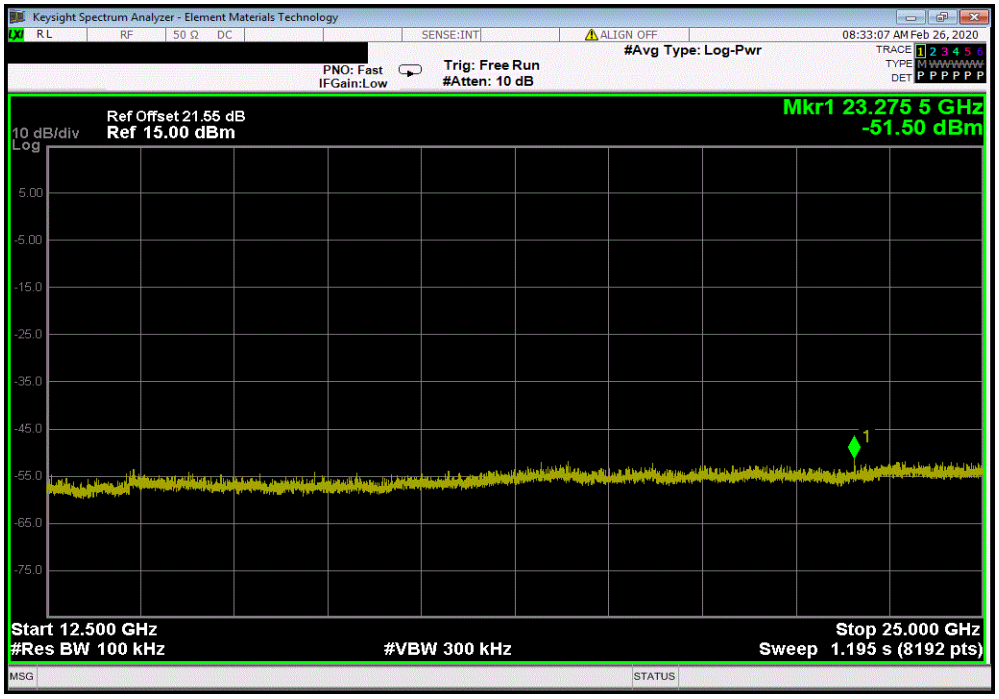
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2436.34	N/A	N/A	N/A



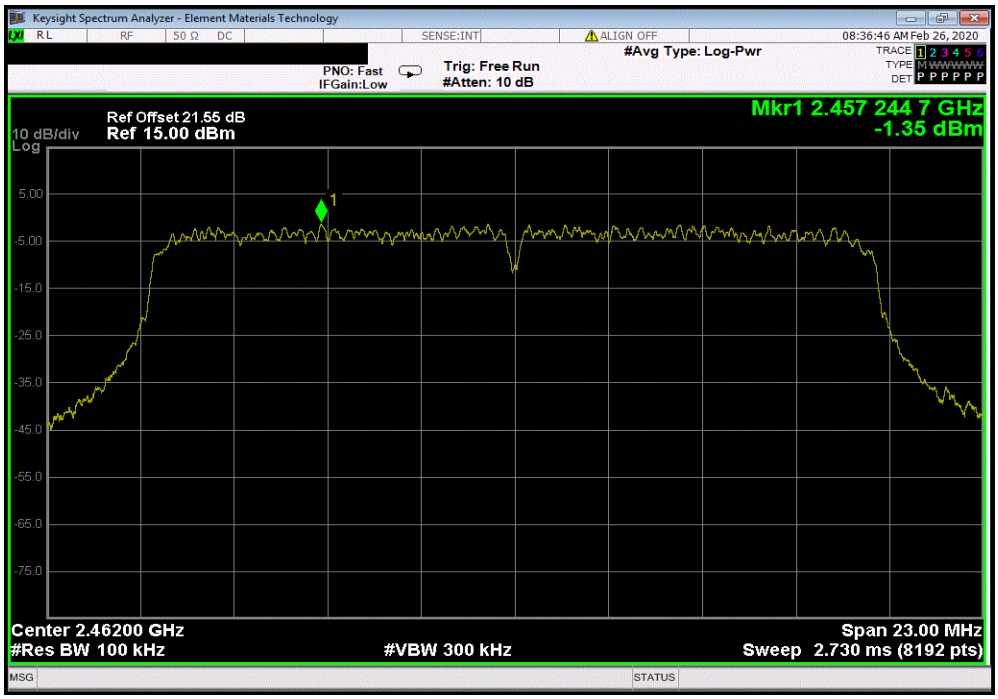
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3249.88	-42.76	-30	Pass



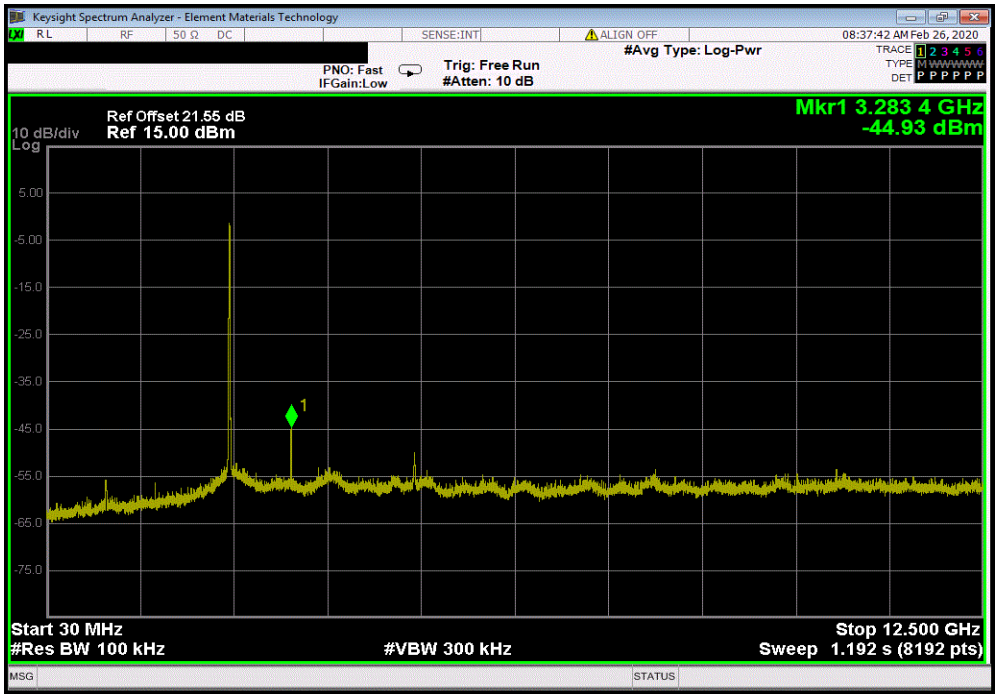
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 6, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	23275.55	-50.02	-30	Pass



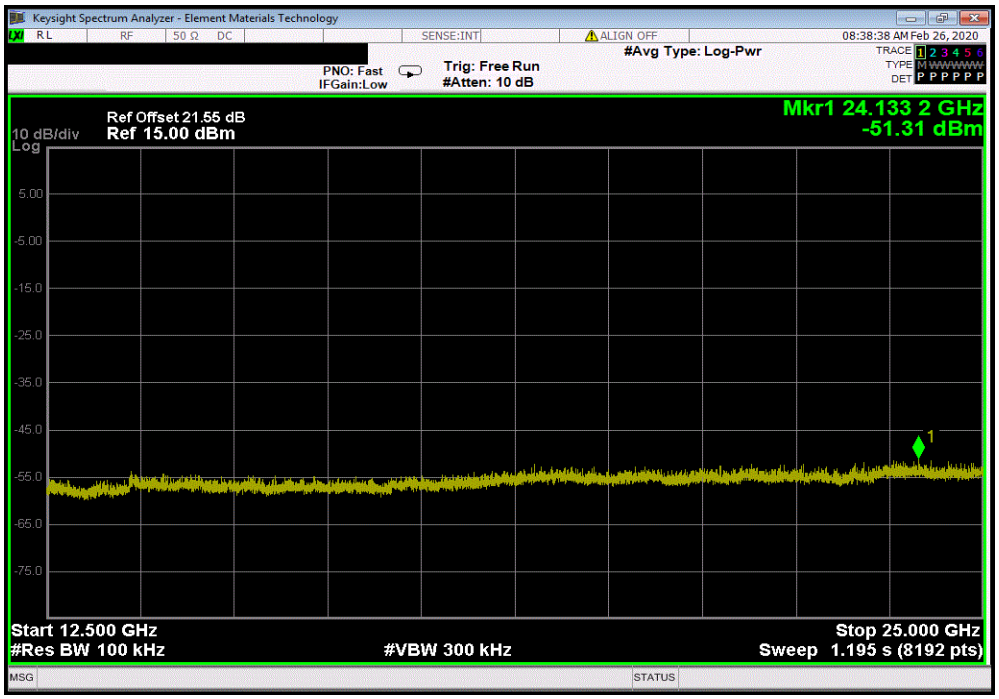
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, High Channel 11, 2462 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2457.24	N/A	N/A	N/A



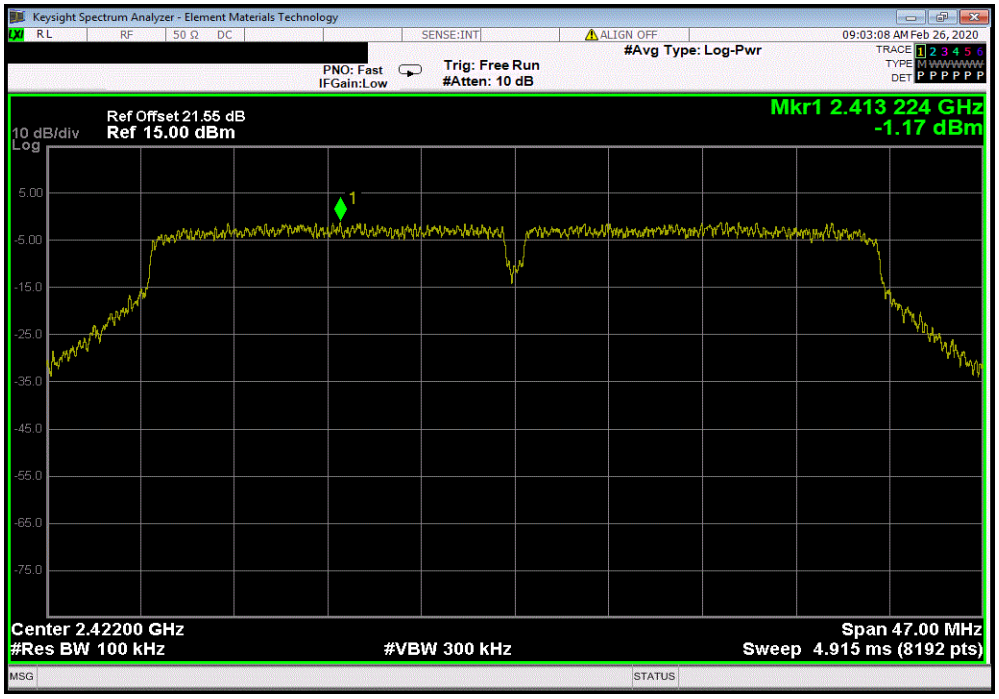
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3283.37	-43.58	-30	Pass



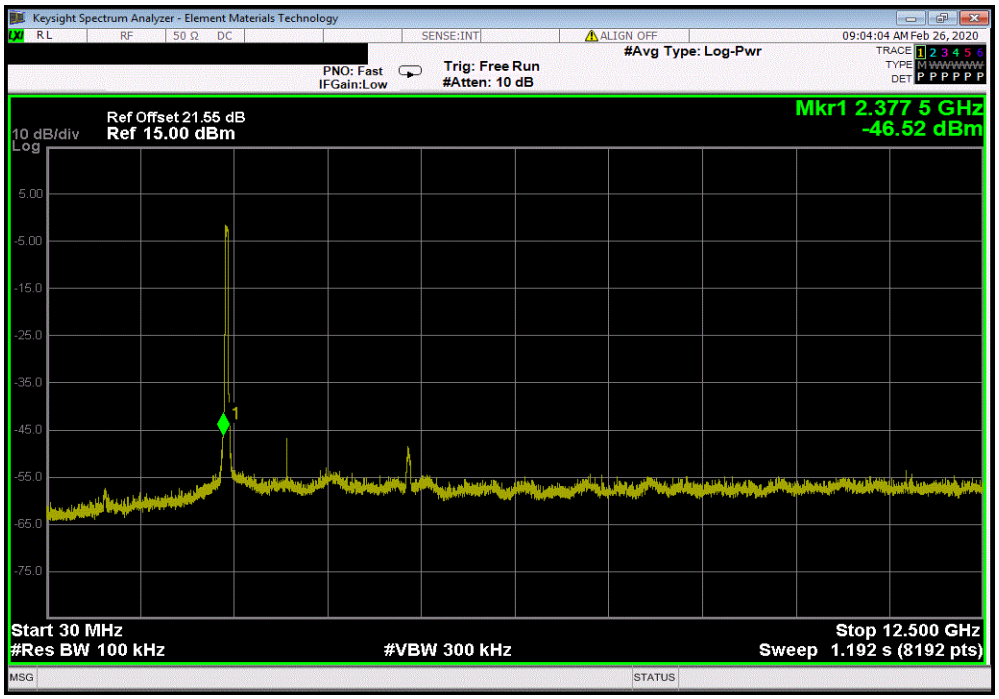
2400 MHz - 2483.5 MHz Band, 20 MHz Bandwidth, 802.11(n) MCS7, High Channel 11, 2462 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24133.2	-49.96	-30	Pass



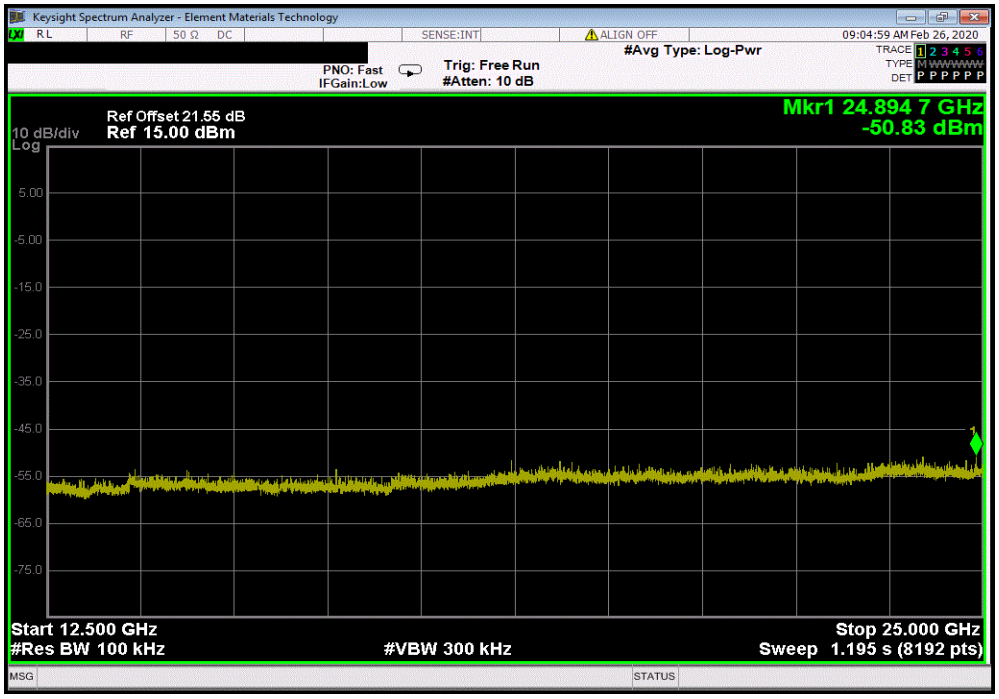
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2413.22	N/A	N/A	N/A



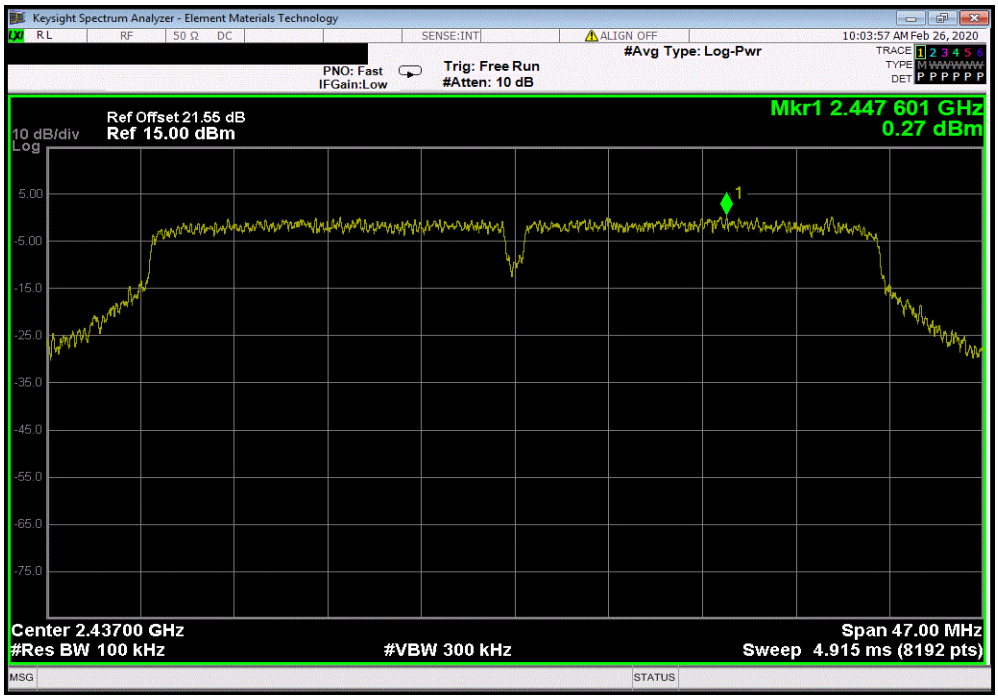
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
30 MHz - 12.5 GHz	2377.54	-45.35	-20	Pass



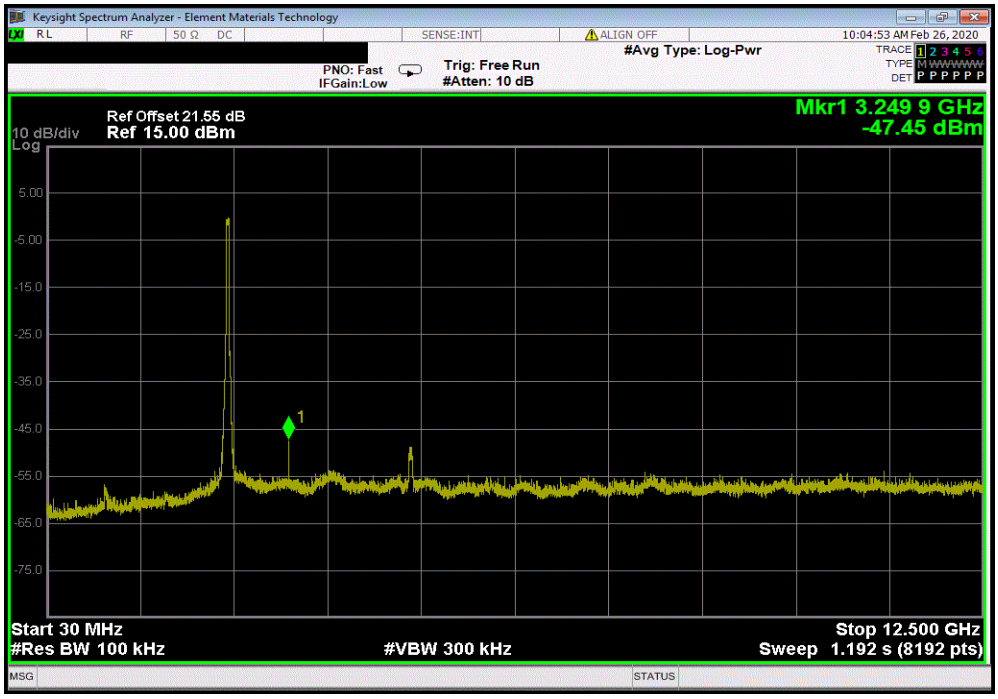
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Low Channel 1/5, 2422 MHz				
Frequency Range	**Measured Freq (MHz)**	**Max Value (dBc)**	**Limit ≤ (dBc)**	**Result**
12.5 GHz - 25 GHz	24894.7	-49.66	-20	Pass



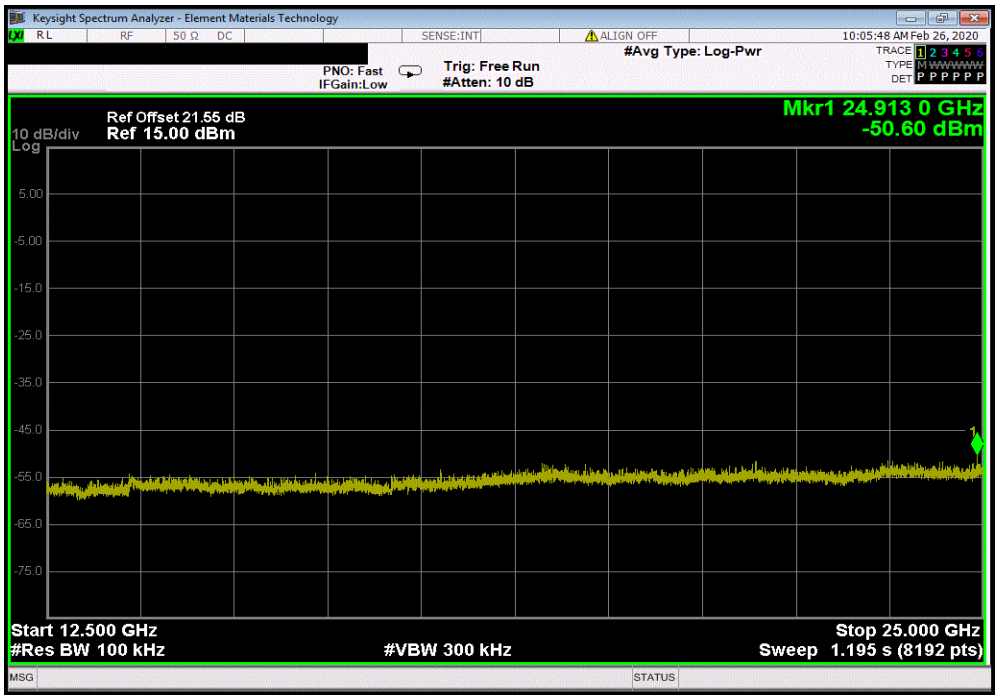
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz						
	Frequency Range		Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2447.6	N/A	N/A	N/A



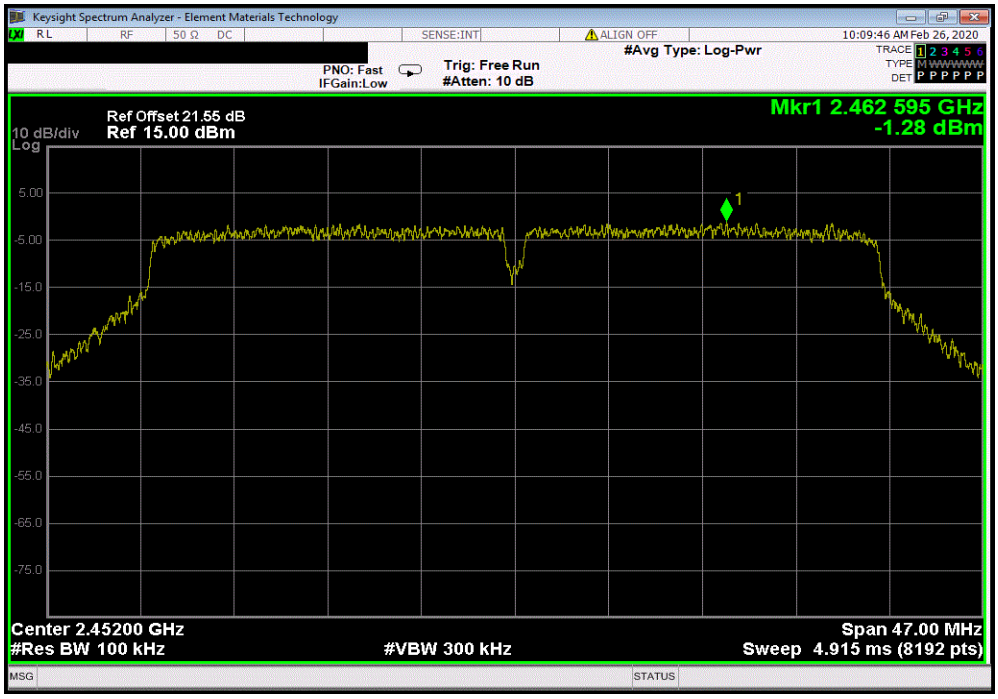
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3249.88	-47.72	-20	Pass



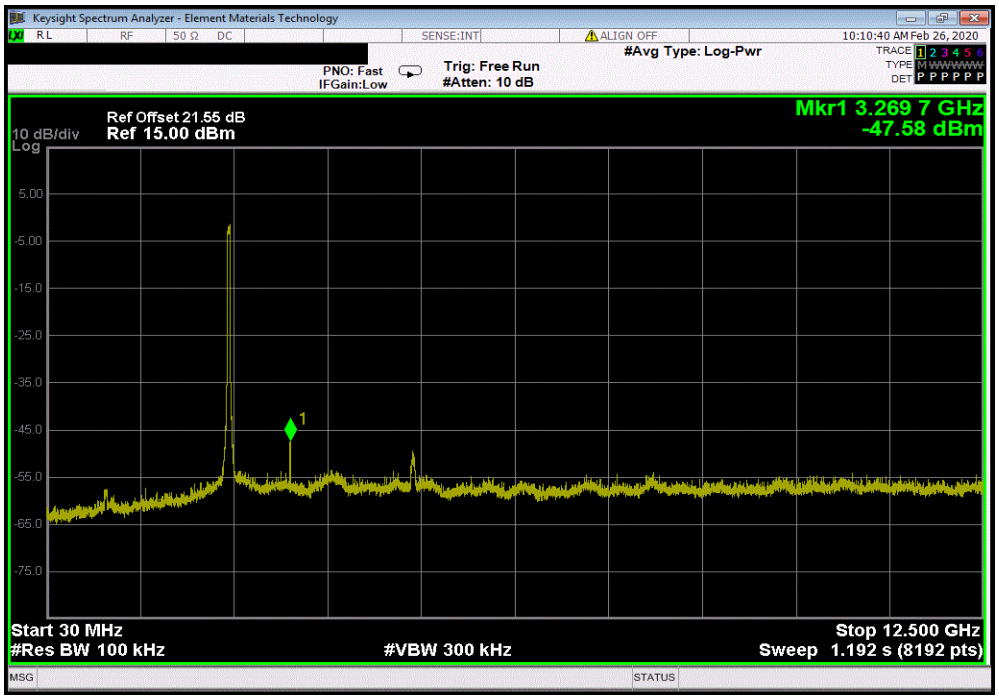
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, Mid Channel 4/8, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24913.01	-50.87	-20	Pass



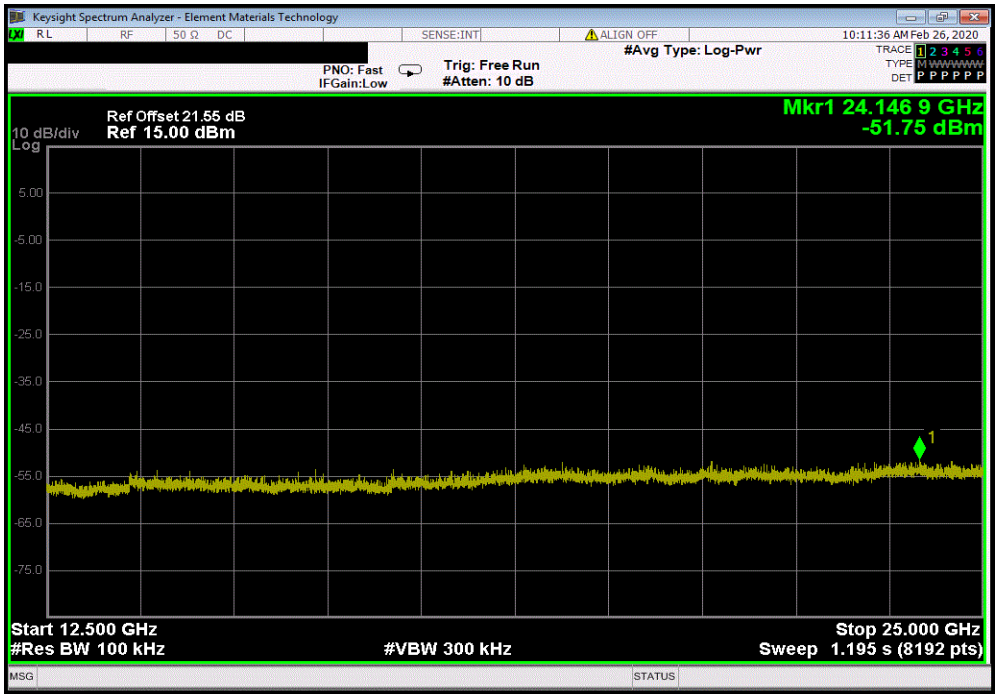
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2462.6	N/A	N/A	N/A



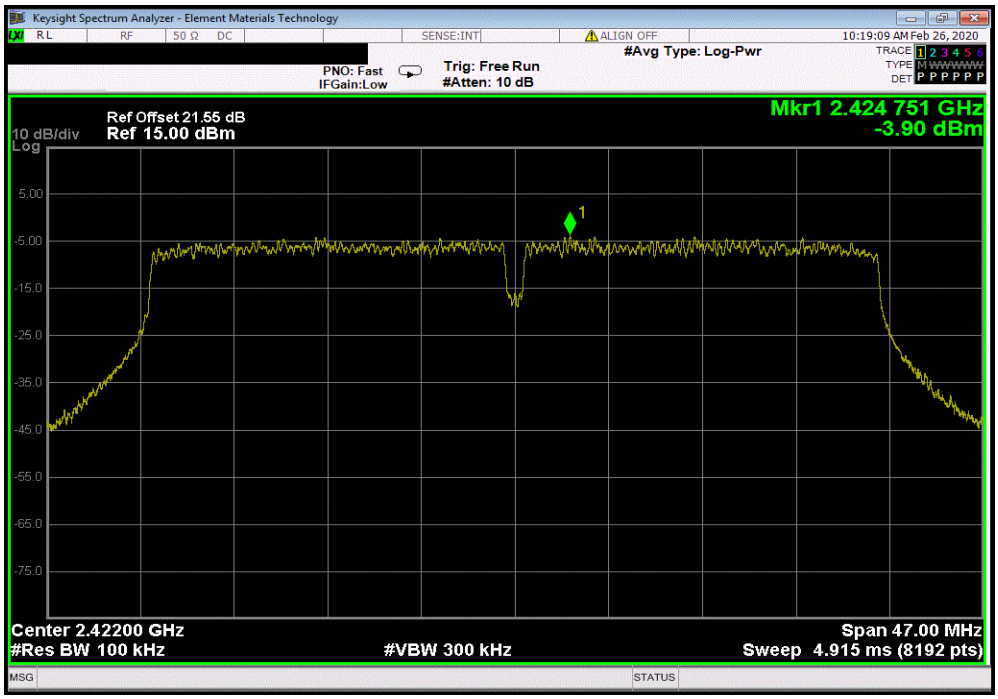
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3269.67	-46.29	-20	Pass



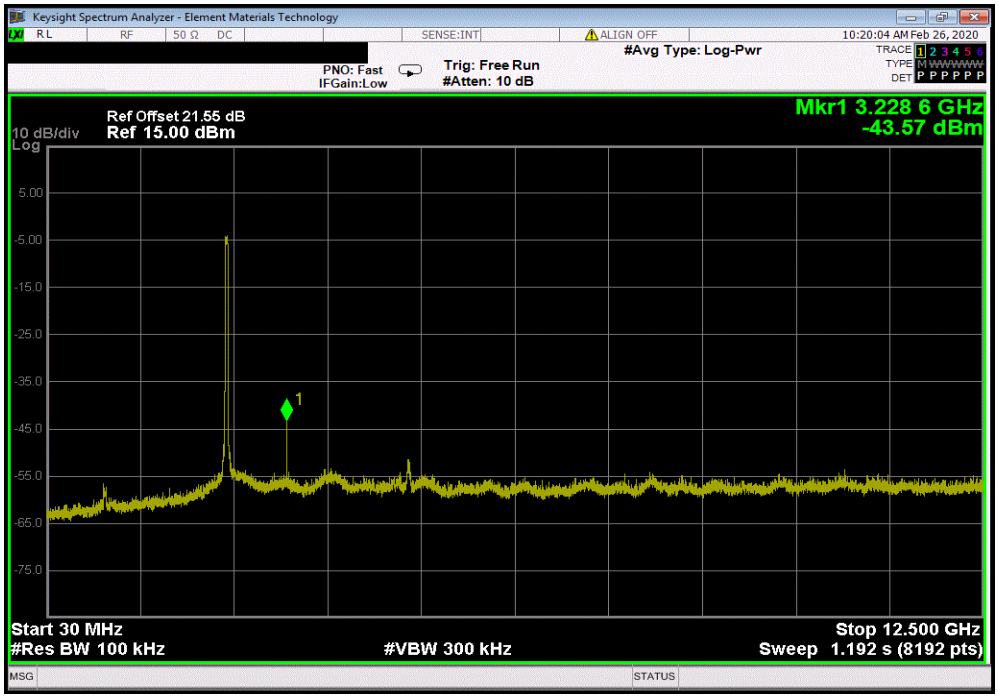
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS0, High Channel 7/11, 2452 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24146.93	-50.47	-20	Pass



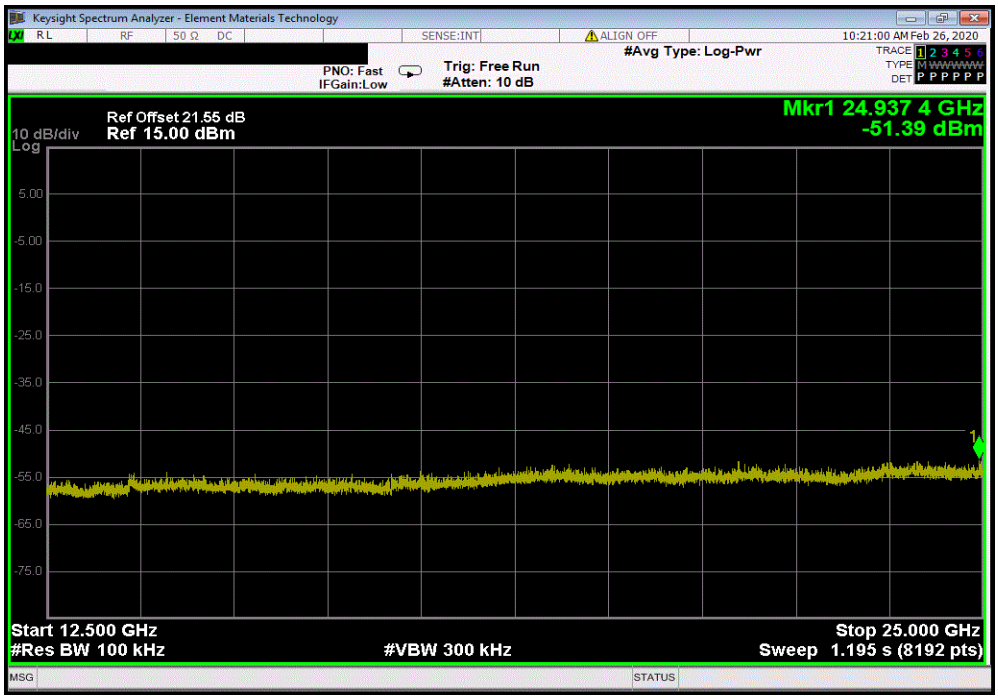
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz						
Frequency Range			Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
	Fundamental		2424.75	N/A	N/A	N/A



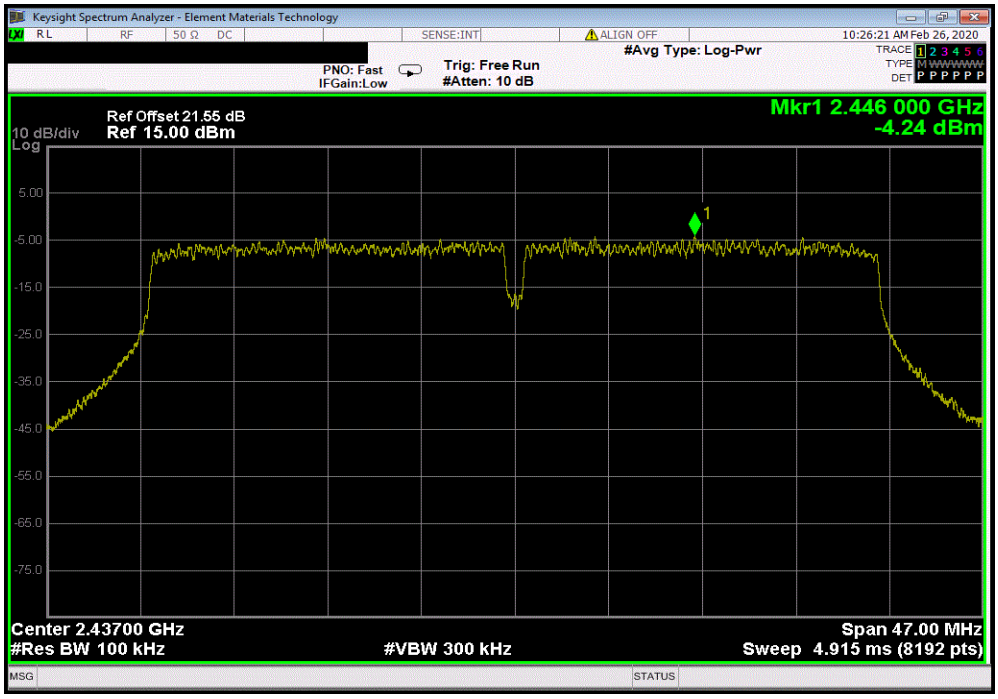
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3228.57	-39.66	-20	Pass



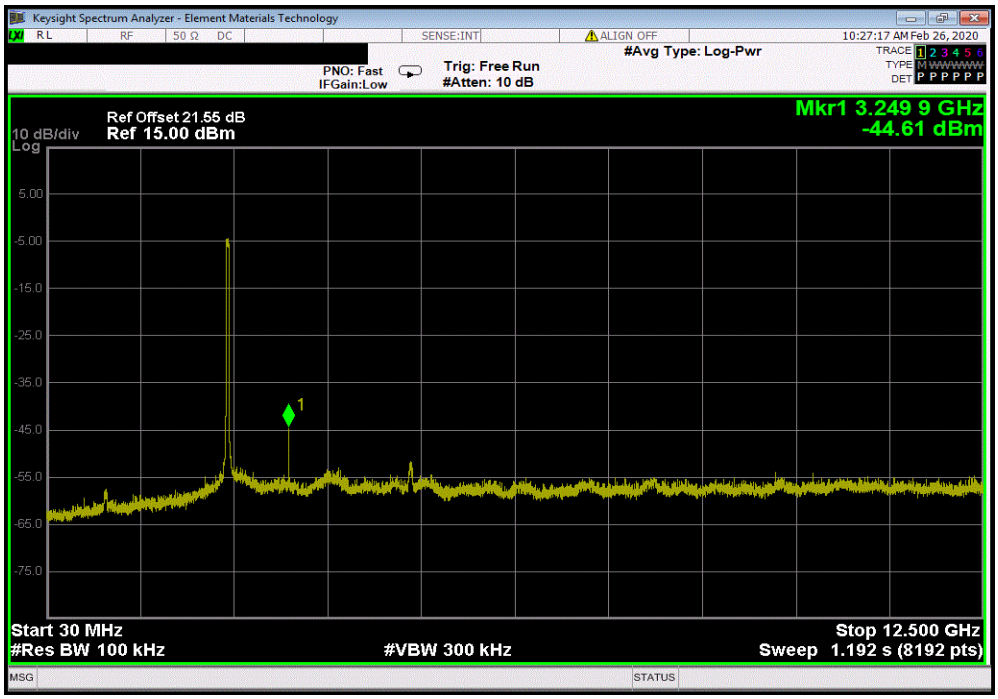
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Low Channel 1/5, 2422 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24937.43	-47.48	-20	Pass



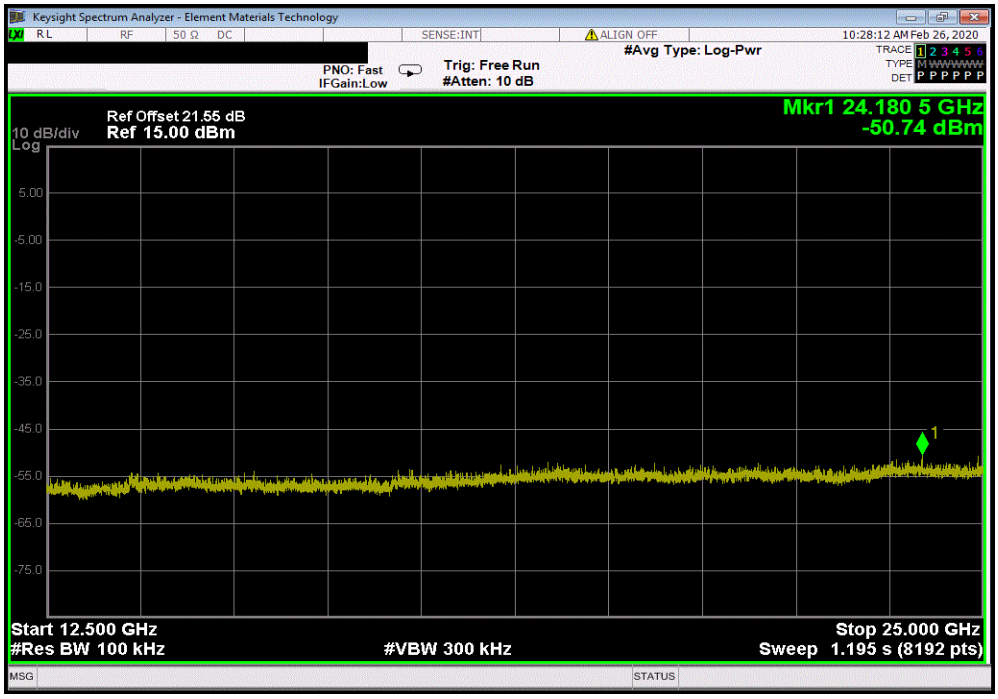
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
Fundamental	2446	N/A	N/A	N/A



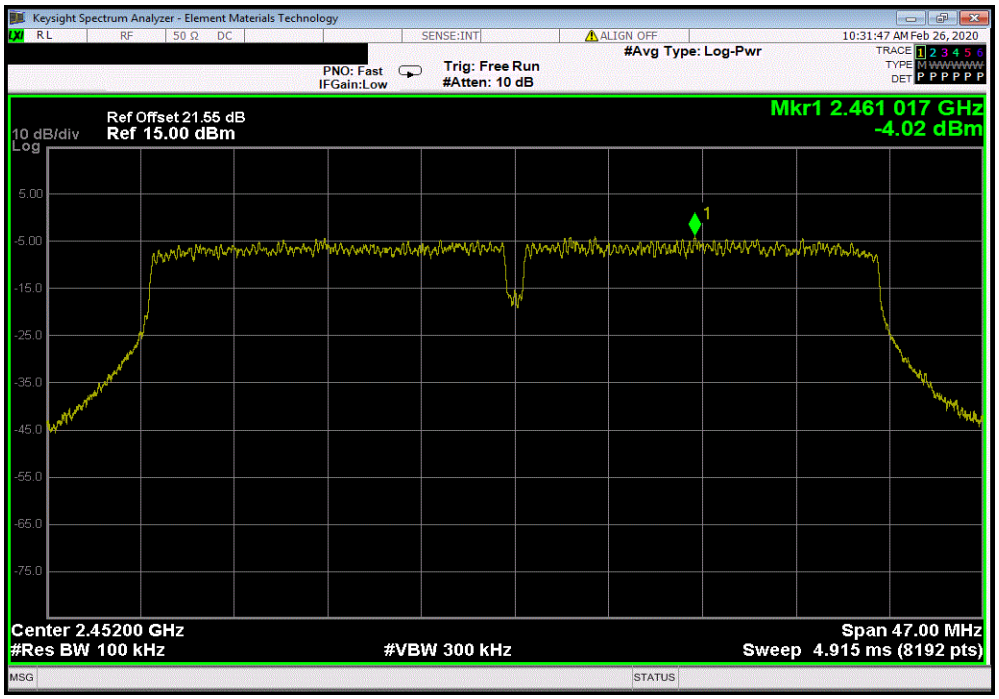
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
30 MHz - 12.5 GHz	3249.88	-40.37	-20	Pass



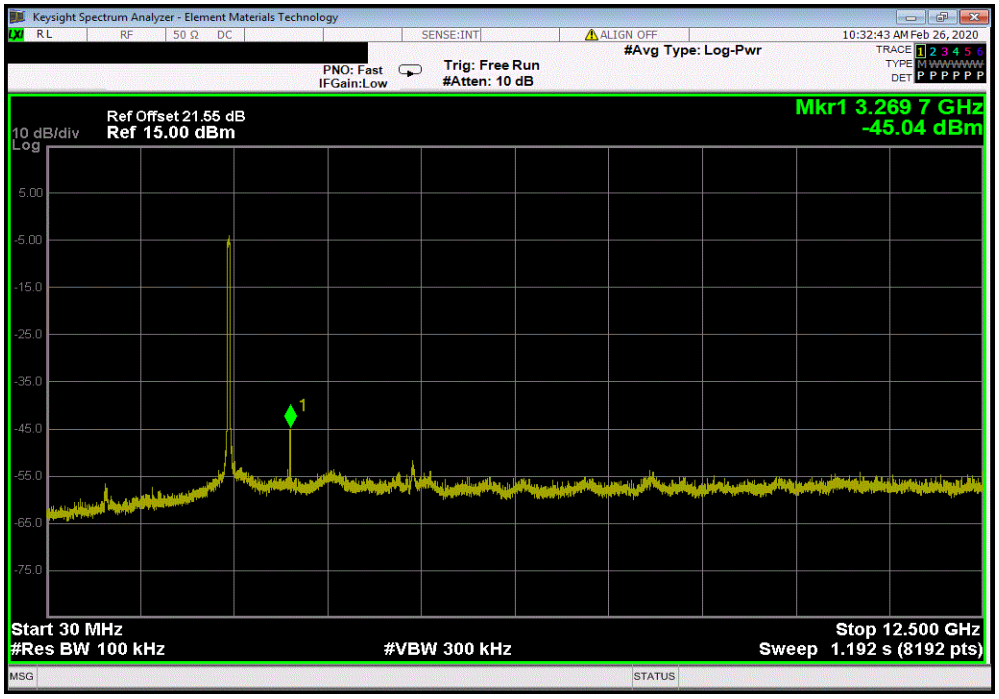
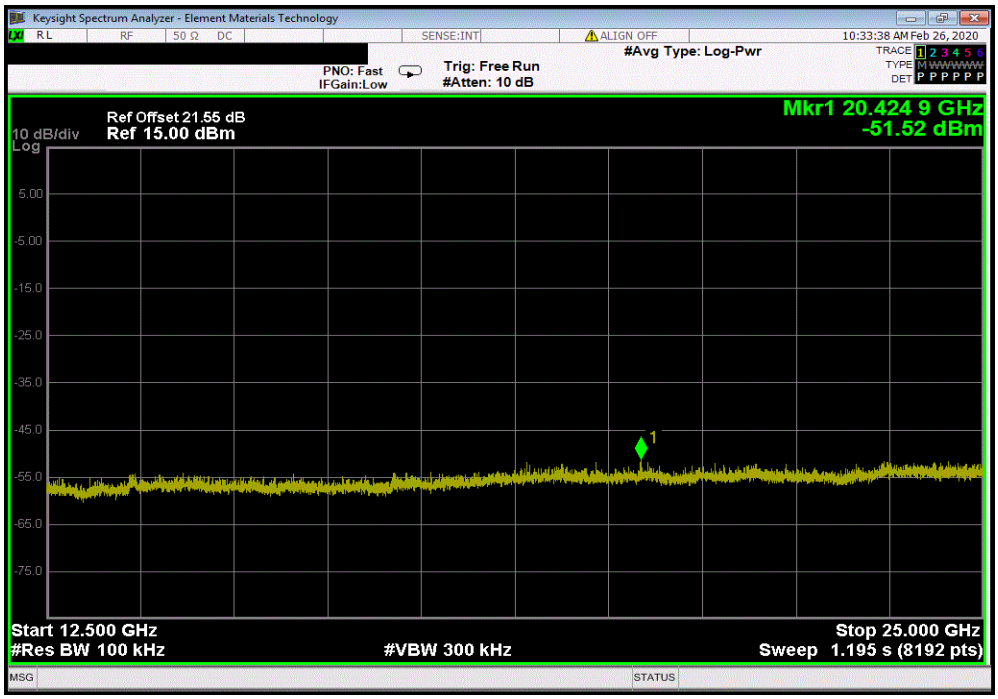
2400 MHz - 2483.5 MHz Band, 40 MHz Bandwidth, 802.11(n) MCS7, Mid Channel 4/8, 2437 MHz				
Frequency Range	Measured Freq (MHz)	Max Value (dBc)	Limit ≤ (dBc)	Result
12.5 GHz - 25 GHz	24180.5	-46.5	-20	Pass



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



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