DTS BANDWIDTH (6dB)

XMit 2023.02.14.0

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
Attenuator	Fairview Microwave	SA4018-20	TYE	2022-09-13	2023-09-13
Block - DC	Fairview Microwave	SD3239	ANE	2023-02-16	2024-02-16
Cable	Micro-Coax	UFD150A-1-0720-200200	TXG	2022-12-08	2023-12-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2023-03-17	2024-03-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The EUT was set to the channels and modes listed in the datasheet.

The 6dB DTS bandwidth was measured using 100 kHz resolution bandwidth and 300 kHz video bandwidth. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

DTS BANDWIDTH (6dB)

TbtTx 2022.06.03.0 XMit 2023.02.14.0

EUT:	V700			**Work Order:**	WTVD0085
Serial Number:	BWL7-000968			**Date:**	04/26/2023
Customer:	Motorola Solutions, Inc.			**Temperature:**	19.9°C
Attendees:	Navaid Karimi			**Humidity:**	48.4%
Project:	None			**Barometric Pres.:**	1010 mbar
Tested by:	Marty Martin	**Power:**	4.2VDC via Battery	**Job Site:**	TX07

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

COMMENTS

All measurment path looses were accounted for in the reference level offset inluding any attenuators, filters, and DC blocks.

DEVIATIONS FROM TEST STANDARD

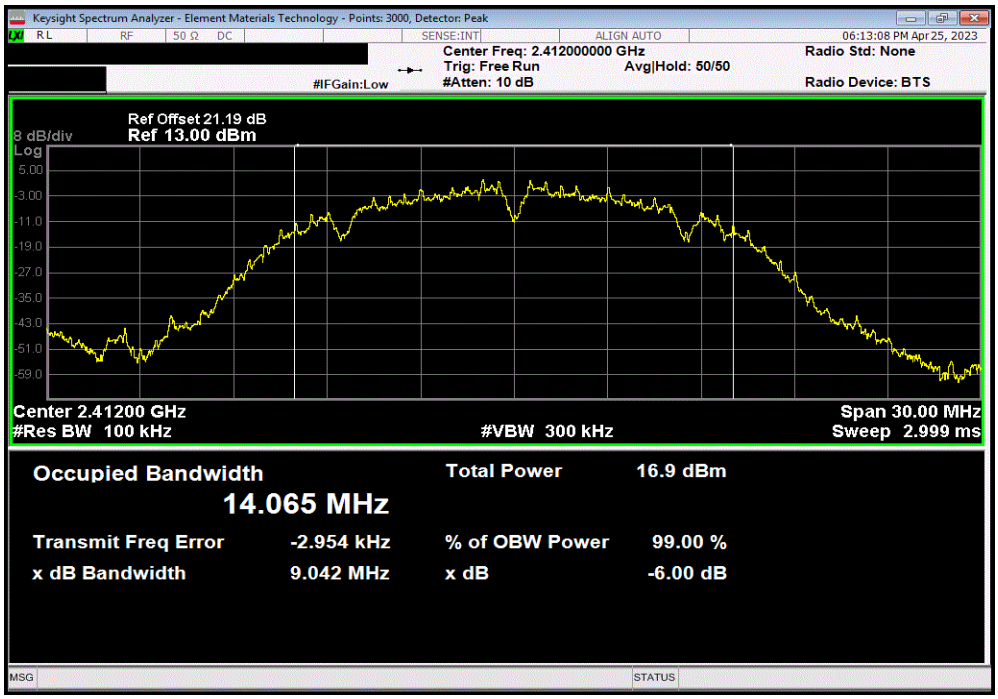
None

Configuration #	**WTVD0085-1**	*Signature* Marty Martin

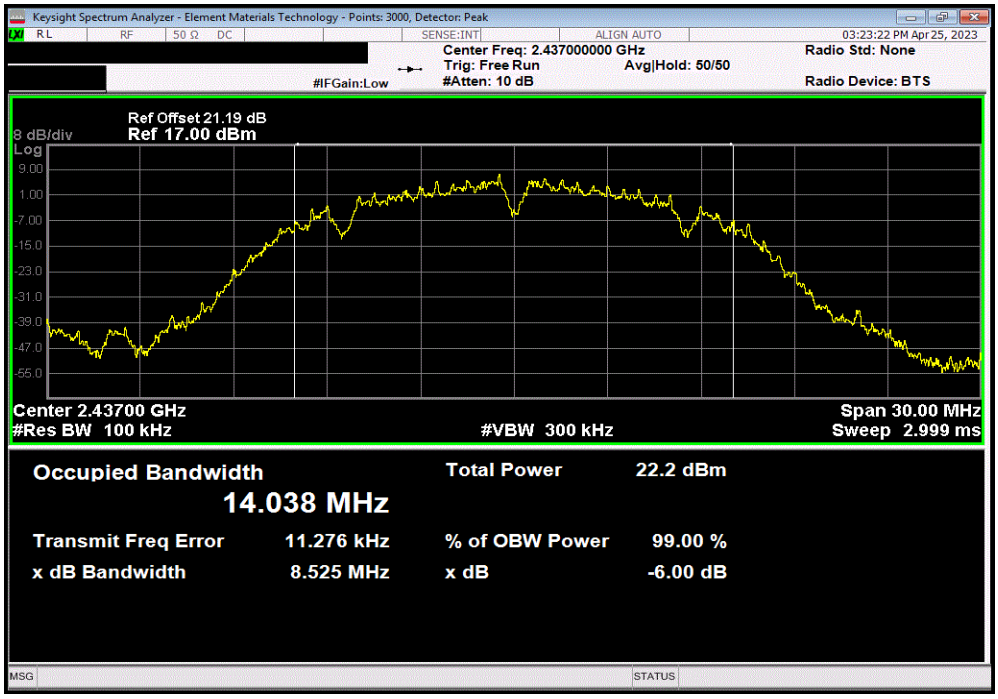
	Value	Limit (>)	Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	9.042 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	8.525 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	8.053 MHz	500 kHz	Pass
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	8.879 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	8.8 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	8.765 MHz	500 kHz	Pass
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	14.643 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	14.026 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	14.025 MHz	500 kHz	Pass
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	15.112 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	14.814 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.111 MHz	500 kHz	Pass
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	15.37 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.113 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.116 MHz	500 kHz	Pass
802.11(n) MCS0			
Low Channel 1, 2412 MHz	15.06 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	12.555 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	13.836 MHz	500 kHz	Pass
802.11(n) MCS7			
Low Channel 1, 2412 MHz	15.333 MHz	500 kHz	Pass
Mid Channel 6, 2437 MHz	15.078 MHz	500 kHz	Pass
High Channel 11, 2462 MHz	15.109 MHz	500 kHz	Pass

DTS BANDWIDTH (6dB)

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				9.042 MHz	500 kHz	Pass

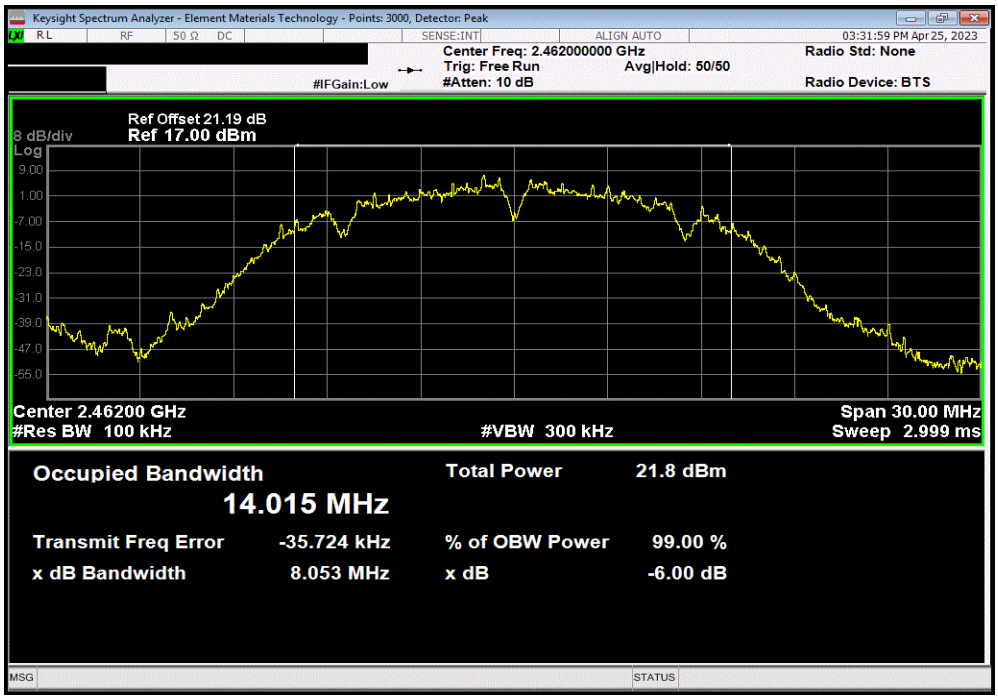


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				8.525 MHz	500 kHz	Pass

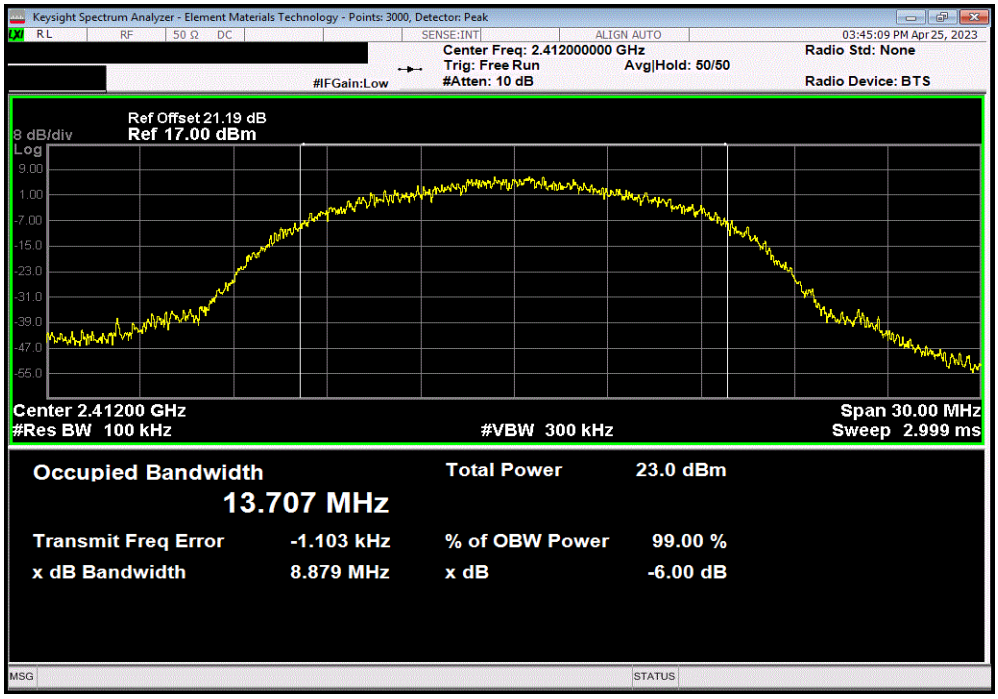


DTS BANDWIDTH (6dB)

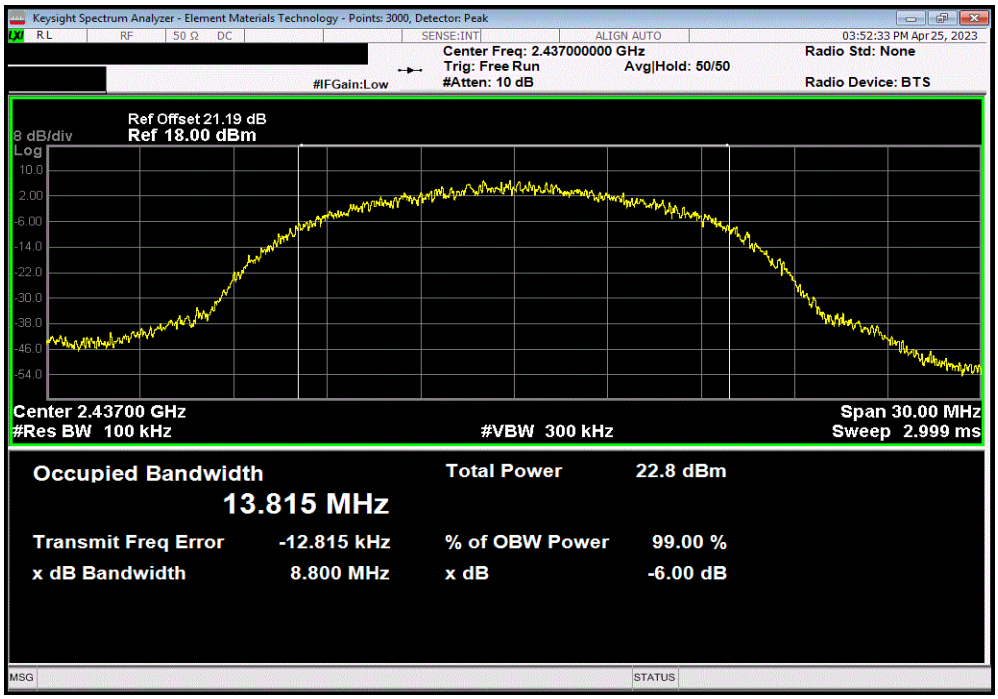
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				8.053 MHz	500 kHz	Pass



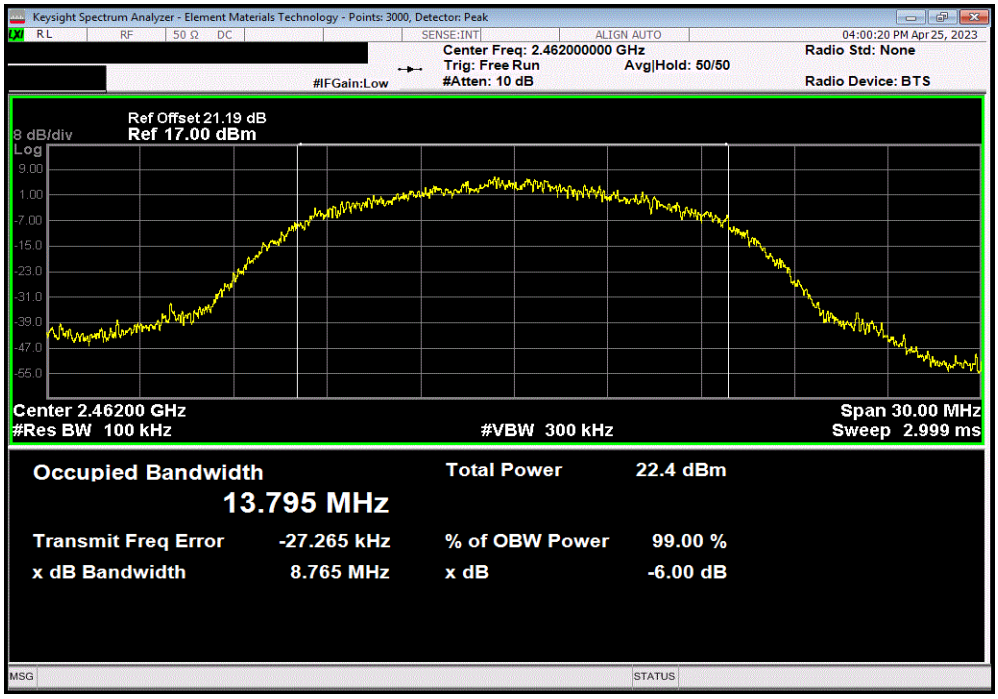
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				8.879 MHz	500 kHz	Pass



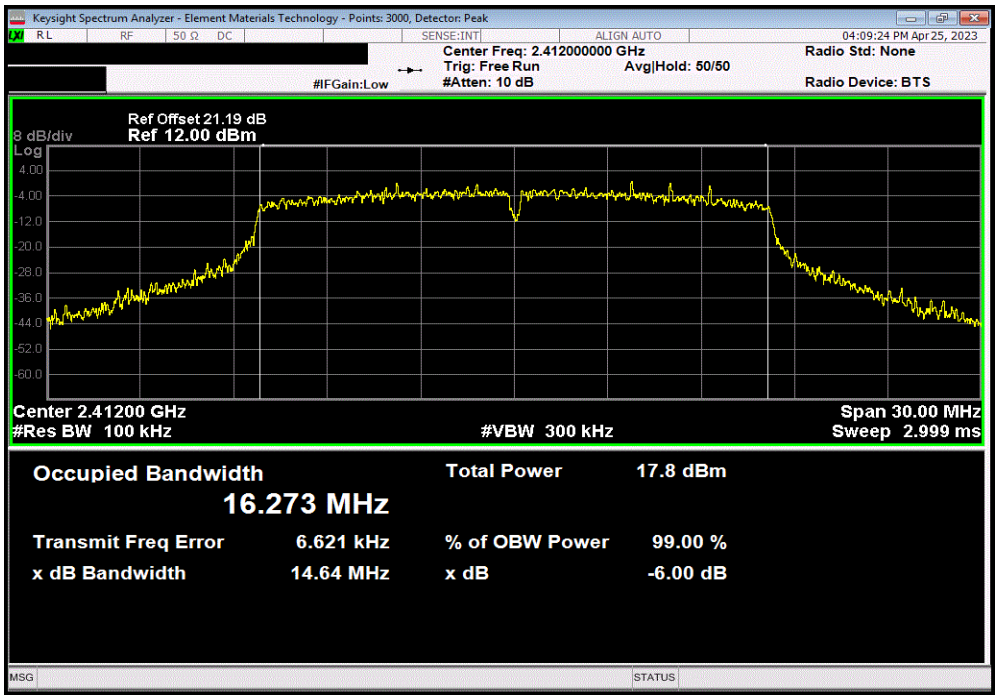
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				8.8 MHz	500 kHz	Pass



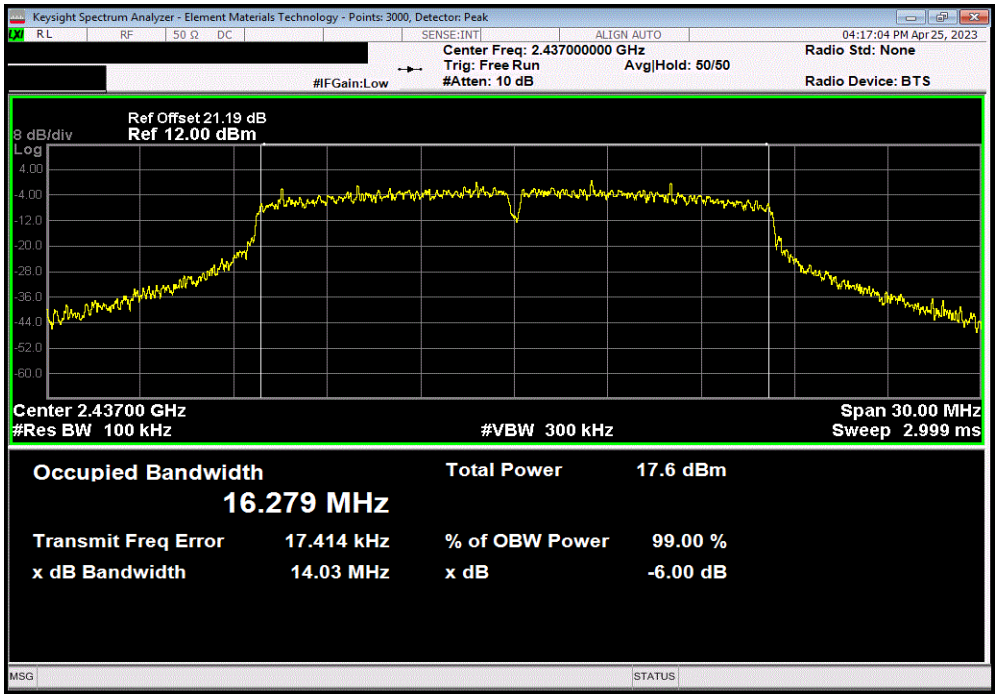
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				8.765 MHz	500 kHz	Pass



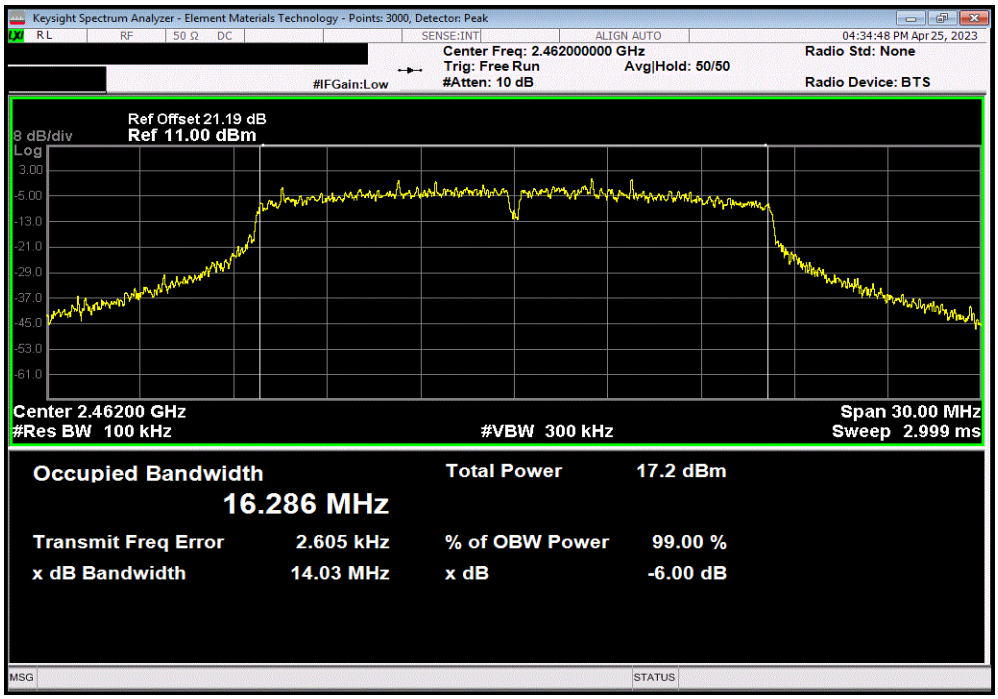
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				14.643 MHz	500 kHz	Pass



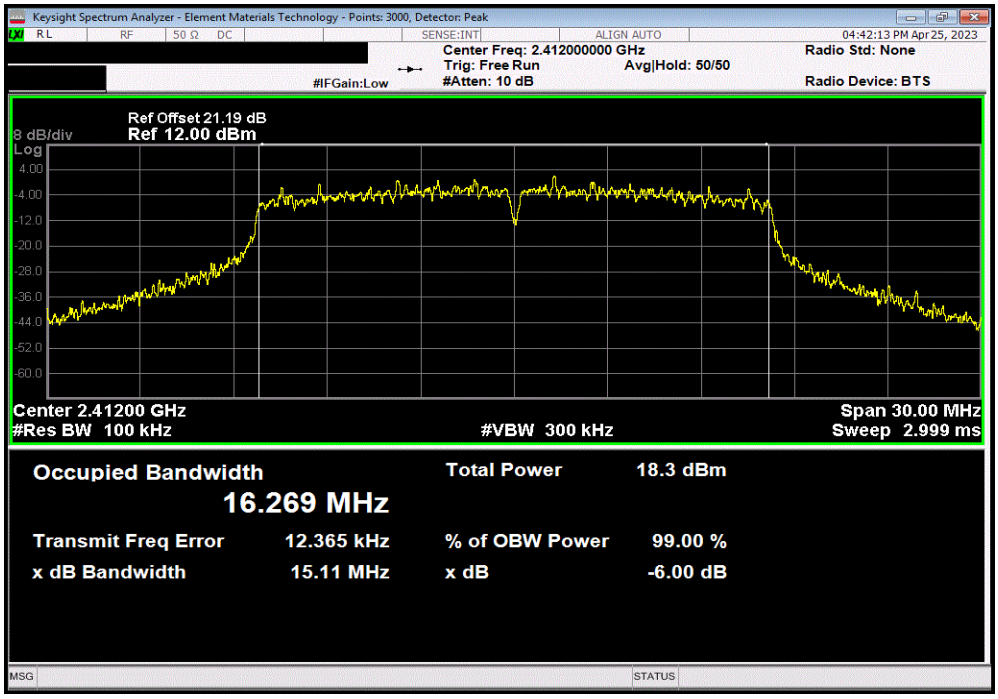
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				14.026 MHz	500 kHz	Pass



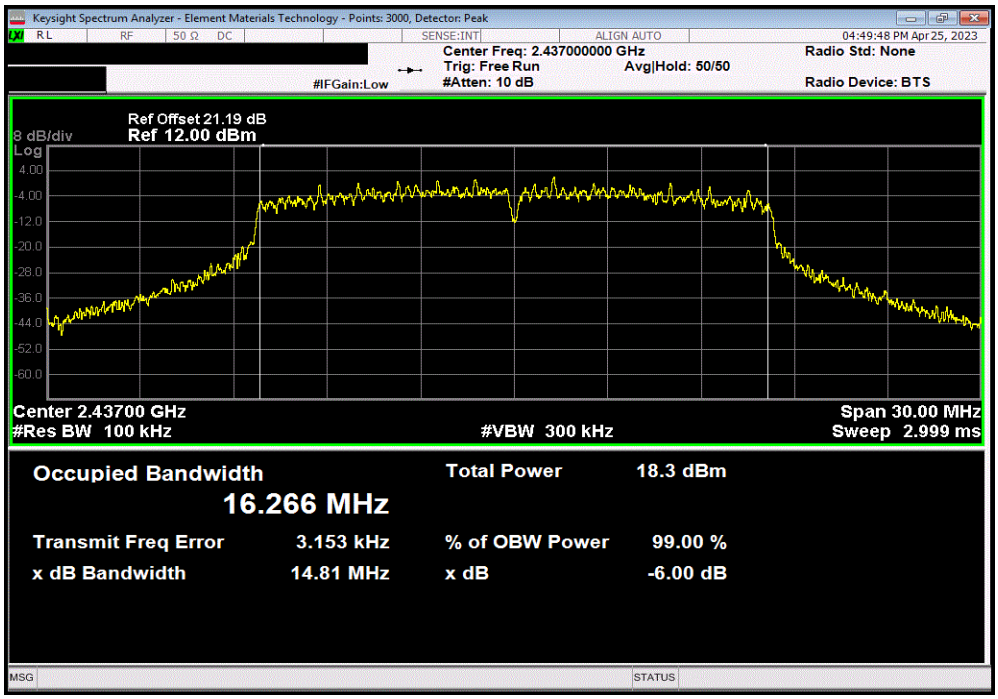
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				14.025 MHz	500 kHz	Pass



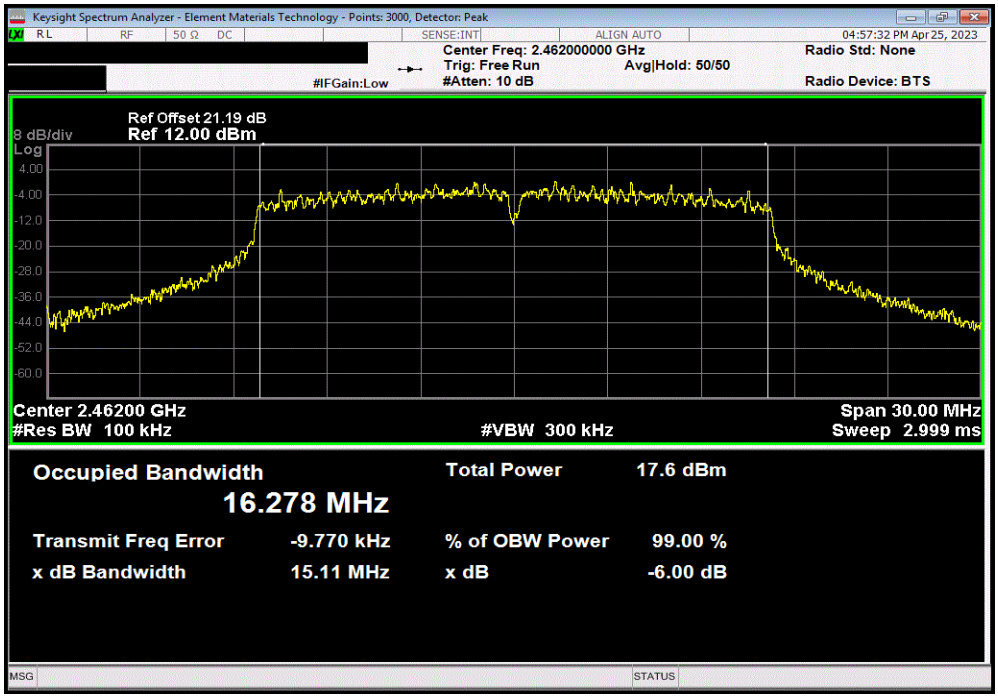
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				15.112 MHz	500 kHz	Pass



2400 MHz - 483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				14.814 MHz	500 kHz	Pass

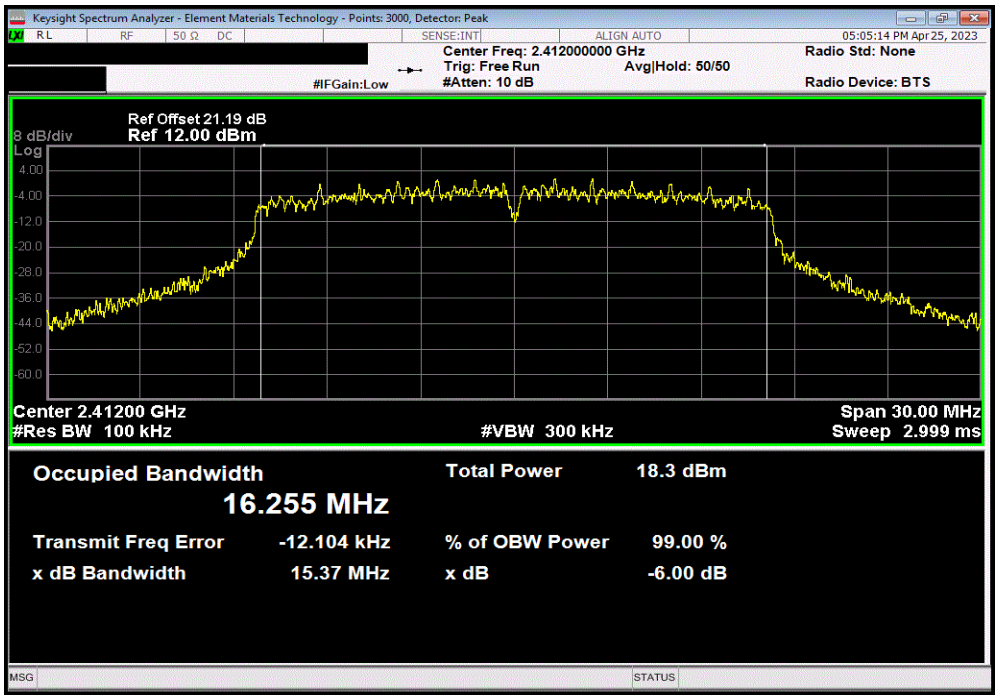


2400 MHz - 483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				15.111 MHz	500 kHz	Pass

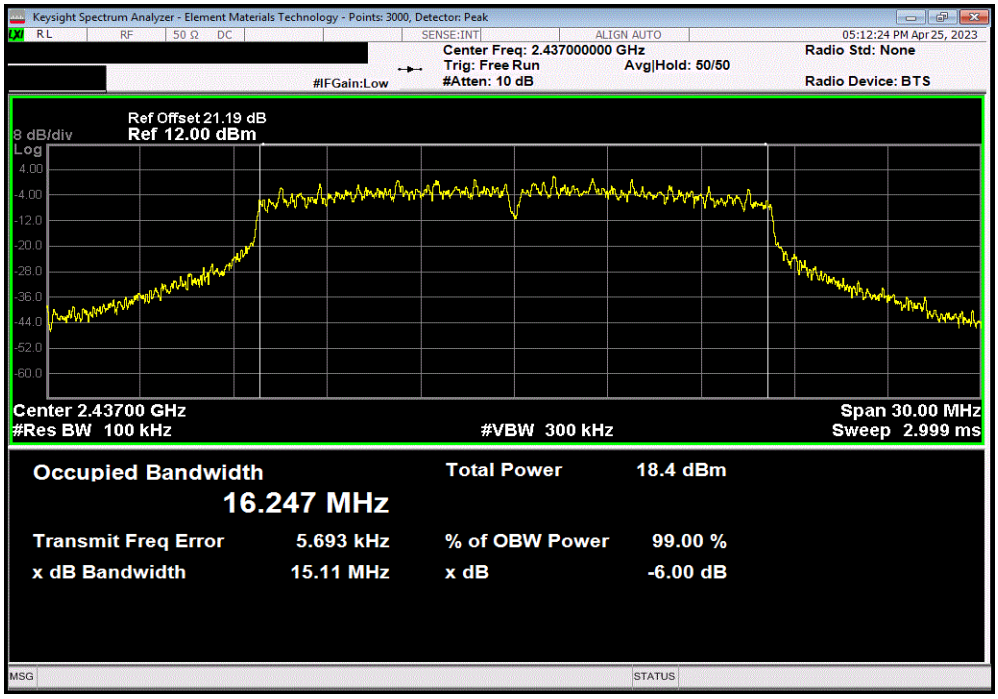


DTS BANDWIDTH (6dB)

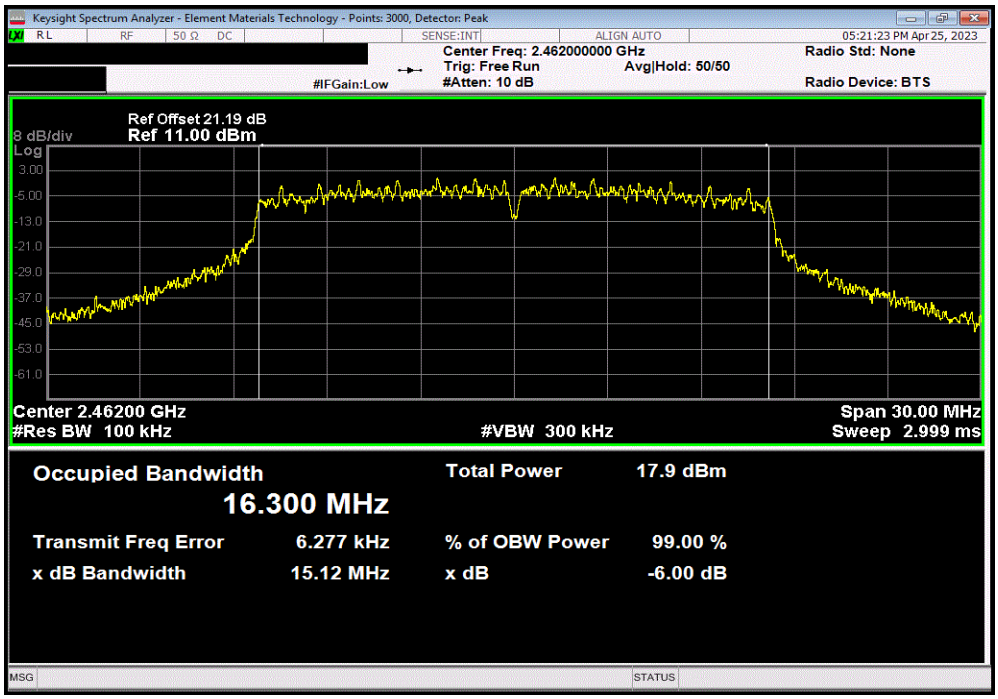
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				15.37 MHz	500 kHz	Pass



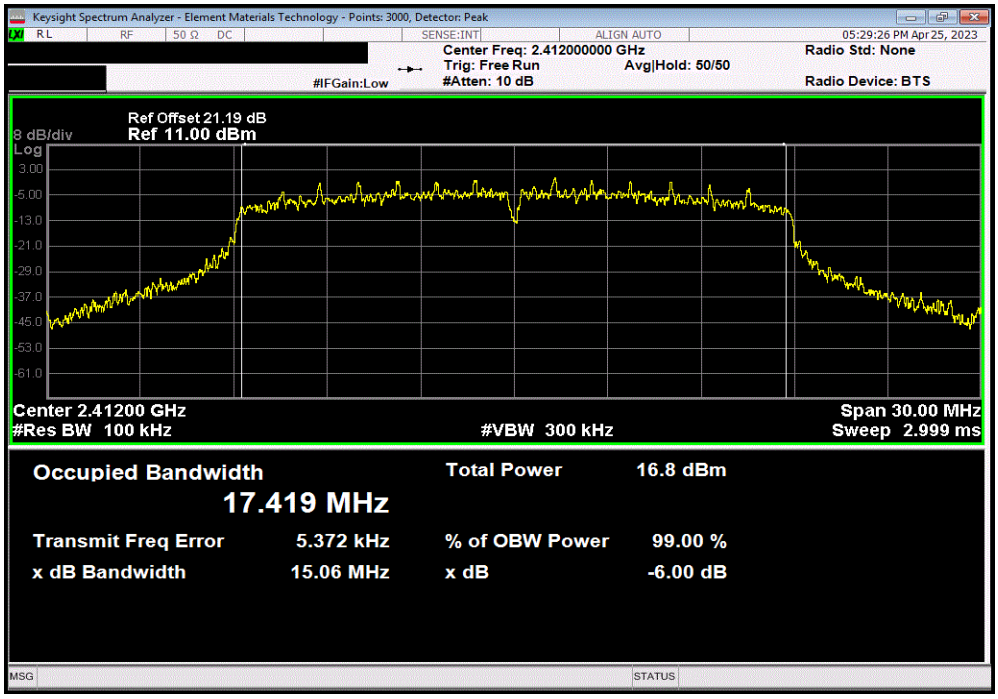
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				15.113 MHz	500 kHz	Pass



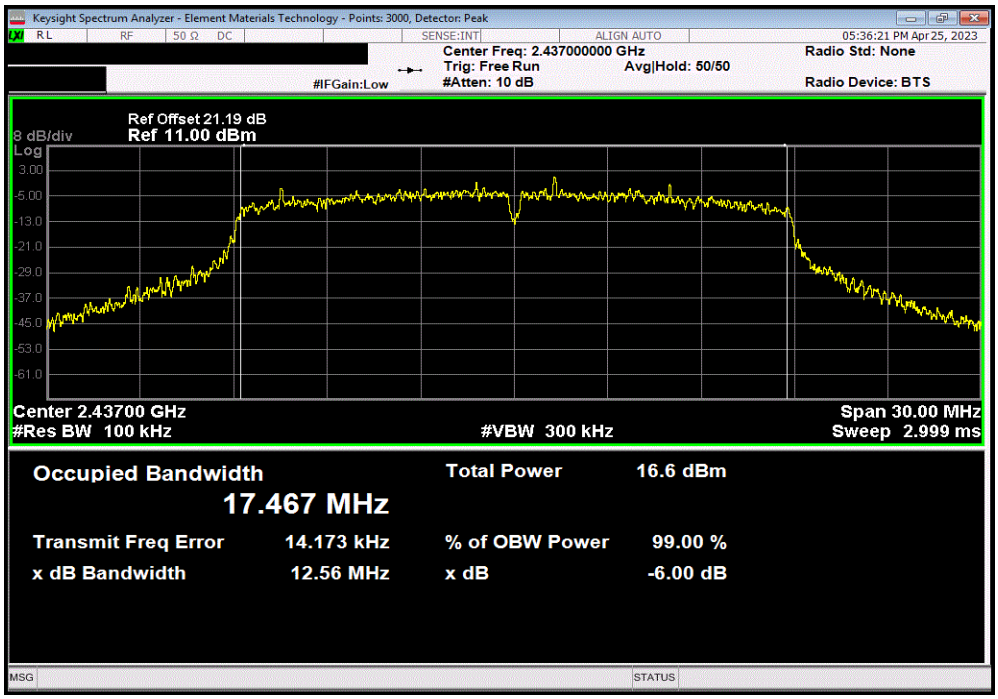
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				15.116 MHz	500 kHz	Pass



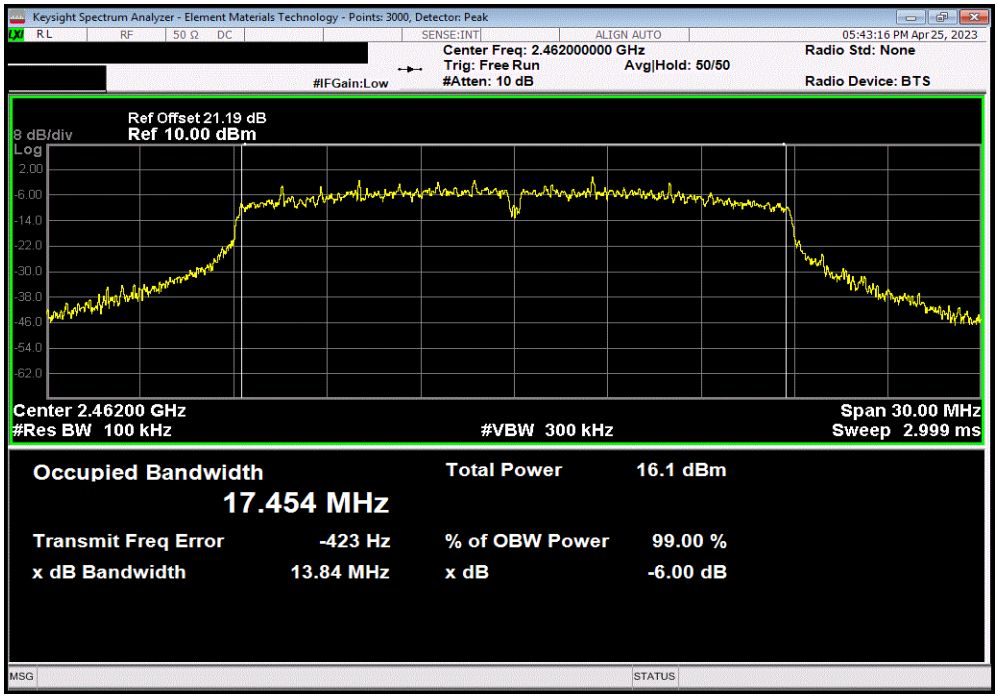
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				15.06 MHz	500 kHz	Pass



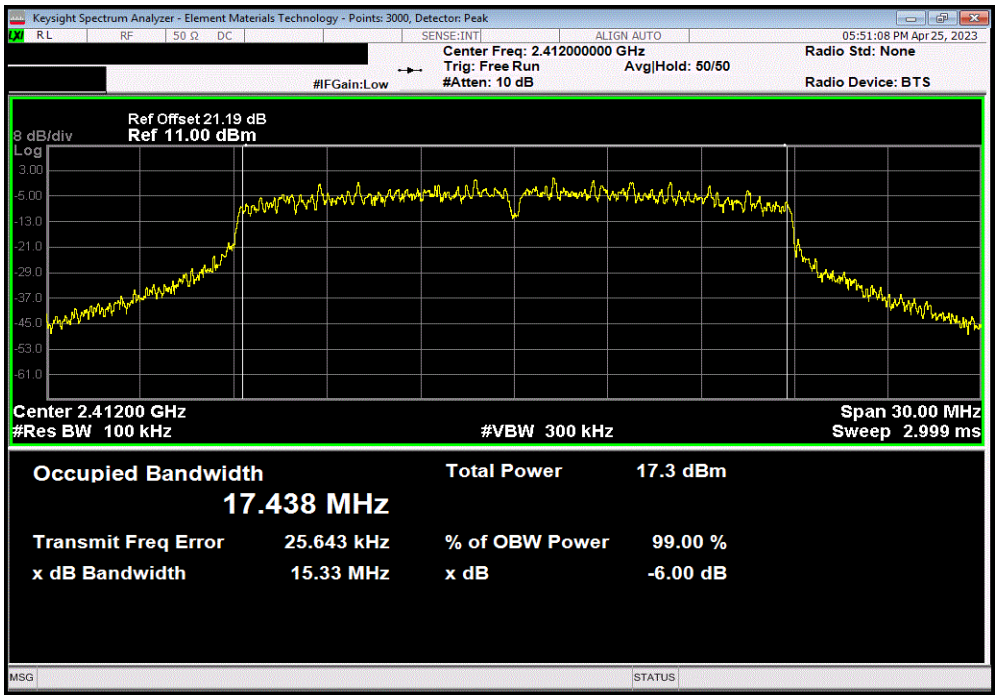
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				12.555 MHz	500 kHz	Pass



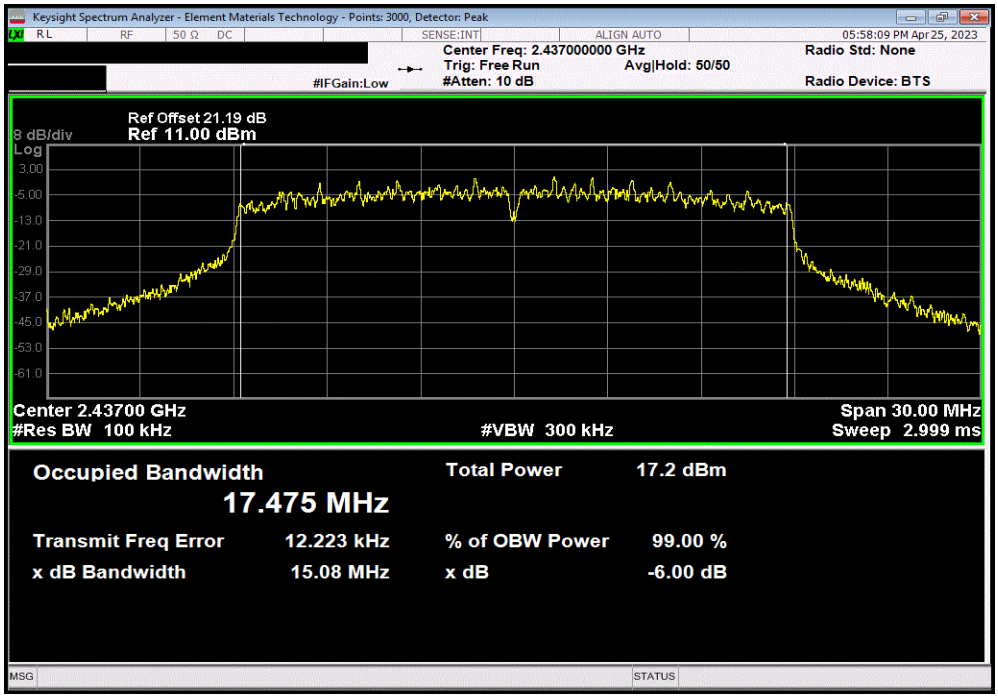
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				13.836 MHz	500 kHz	Pass



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
				Value	Limit (>)	Result
				15.333 MHz	500 kHz	Pass

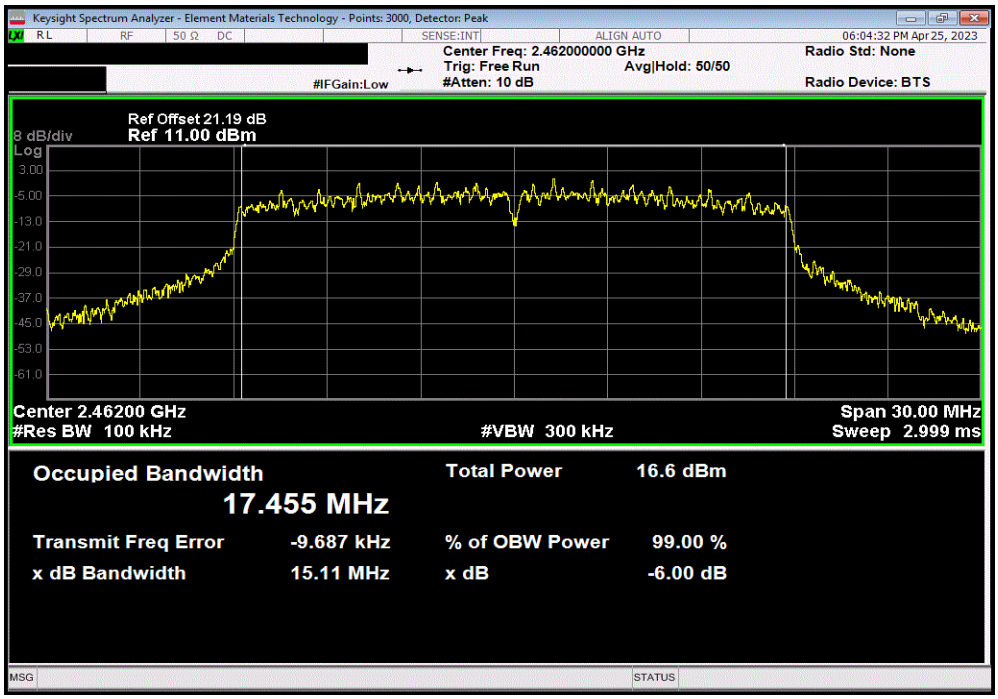


2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
				Value	Limit (>)	Result
				15.078 MHz	500 kHz	Pass



DTS BANDWIDTH (6dB)

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
				Value	Limit (>)	Result
				15.109 MHz	500 kHz	Pass



OCCUPIED BANDWIDTH (99%)

XMit 2023.02.14.0

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
Attenuator	Fairview Microwave	SA4018-20	TYE	2022-09-13	2023-09-13
Block - DC	Fairview Microwave	SD3239	ANE	2023-02-16	2024-02-16
Cable	Micro-Coax	UFD150A-1-0720-200200	TXG	2022-12-08	2023-12-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2023-03-17	2024-03-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The 99% occupied bandwidth was measured with the EUT configured for continuous modulated operation.

Per ANSI C63.10:2013, 6.9.3, the spectrum analyzer was configured as follows:

The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts.

The resolution bandwidth (RBW) of the spectrum analyzer was set to the range of 1% to 5% of the occupied bandwidth (OBW) and video bandwidth (VBW) bandwidth was set to at least 3 times the resolution bandwidth. The analyzer sweep time was set to auto to prevent video filtering or averaging. A sample detector was used unless the device was not able to be operated in a continuous transmit mode, in which case a peak detector was used.

The spectrum analyzer occupied bandwidth measurement function was used to sum the power of the transmission in linear terms to obtain the 99% bandwidth.

OCCUPIED BANDWIDTH (99%)

element

TbtTx 2022.06.03.0 XMit 2023.02.14.0

EUT:	V700			**Work Order:**	WTVD0085
Serial Number:	BWL7-000968			**Date:**	04/26/2023
Customer:	Motorola Solutions, Inc.			**Temperature:**	20.6°C
Attendees:	Navaid Karimi			**Humidity:**	48%
Project:	None			**Barometric Pres.:**	1010 mbar
Tested by:	Marty Martin	**Power:**	4.2VDC via Battery	**Job Site:**	TX07

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

COMMENTS

All measurment path looses were accounted for in the reference level offset inluding any attenuators, filters, and DC blocks.

DEVIATIONS FROM TEST STANDARD

None

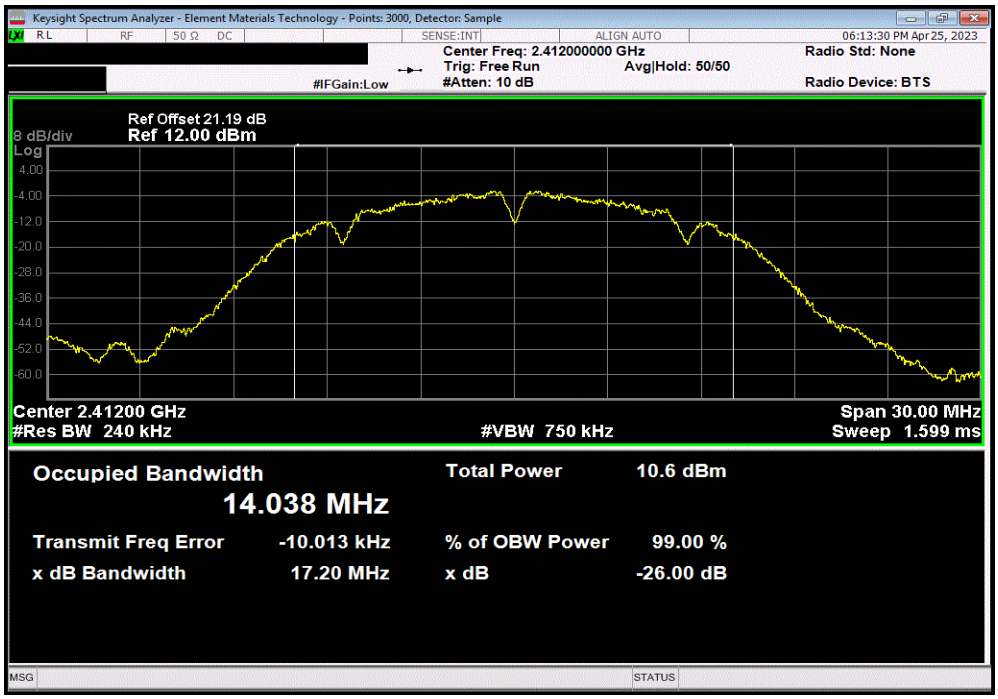
Configuration #	**WTVD0085-1**	*Signature* Marty Martin

	Value	Limit	Result
2400 MHz - 2483.5 MHz Band			
802.11(b) 1 Mbps			
Low Channel 1, 2412 MHz	14.038 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	14.058 MHz	N/A	N/A
High Channel 11, 2462 MHz	14.036 MHz	N/A	N/A
802.11(b) 11 Mbps			
Low Channel 1, 2412 MHz	13.87 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	13.818 MHz	N/A	N/A
High Channel 11, 2462 MHz	13.875 MHz	N/A	N/A
802.11(g) 6 Mbps			
Low Channel 1, 2412 MHz	16.325 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	16.312 MHz	N/A	N/A
High Channel 11, 2462 MHz	16.331 MHz	N/A	N/A
802.11(g) 36 Mbps			
Low Channel 1, 2412 MHz	16.315 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	16.296 MHz	N/A	N/A
High Channel 11, 2462 MHz	16.339 MHz	N/A	N/A
802.11(g) 54 Mbps			
Low Channel 1, 2412 MHz	16.261 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	16.319 MHz	N/A	N/A
High Channel 11, 2462 MHz	16.257 MHz	N/A	N/A
802.11(n) MCS0			
Low Channel 1, 2412 MHz	17.383 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	17.461 MHz	N/A	N/A
High Channel 11, 2462 MHz	17.495 MHz	N/A	N/A
802.11(n) MCS7			
Low Channel 1, 2412 MHz	17.378 MHz	N/A	N/A
Mid Channel 6, 2437 MHz	17.35 MHz	N/A	N/A
High Channel 11, 2462 MHz	17.375 MHz	N/A	N/A

OCCUPIED BANDWIDTH (99%)

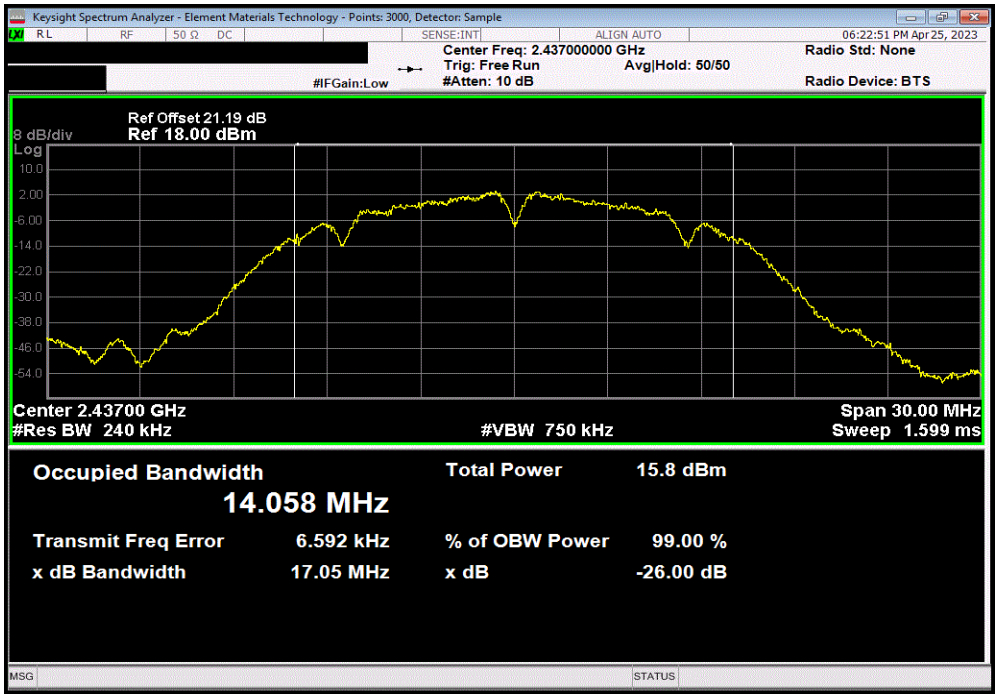
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				14.038 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz

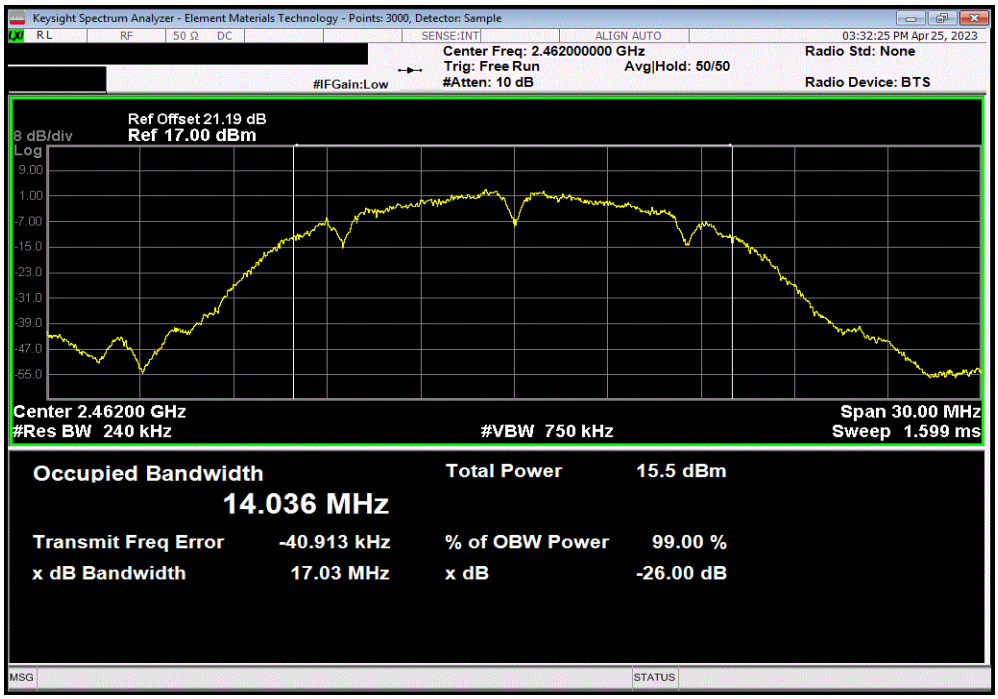
				Value	Limit	Result
				14.058 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

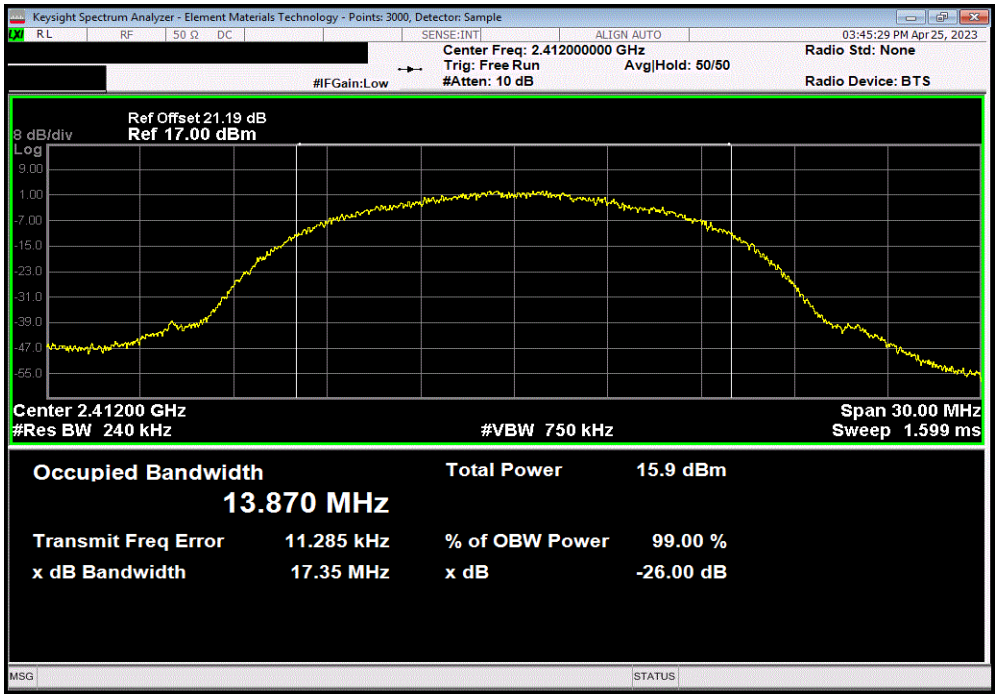
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				14.036 MHz	N/A	N/A



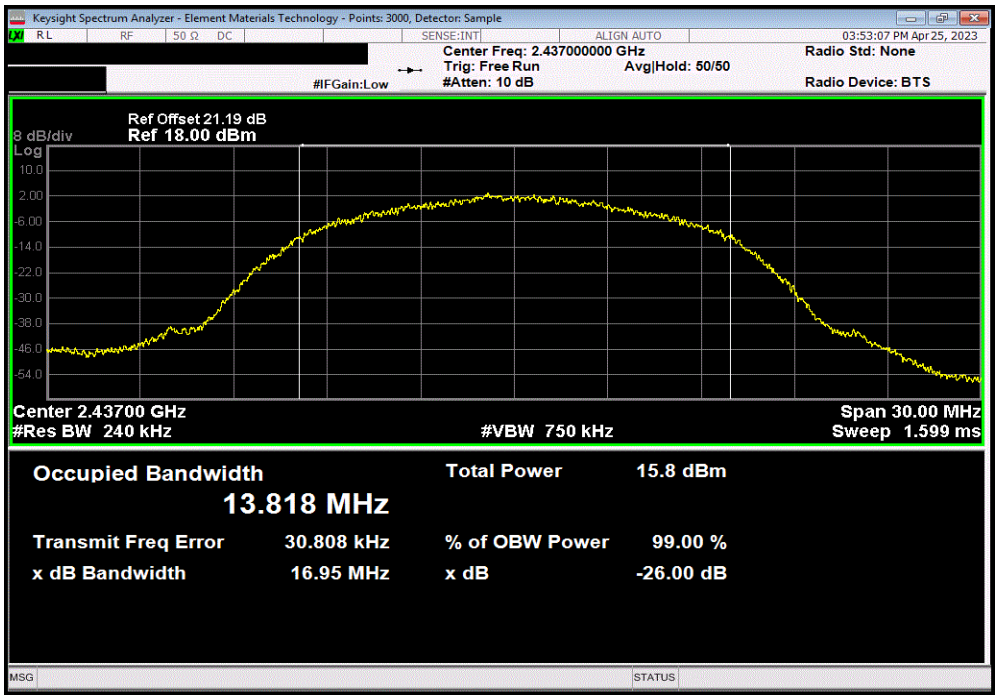
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				13.87 MHz	N/A	N/A



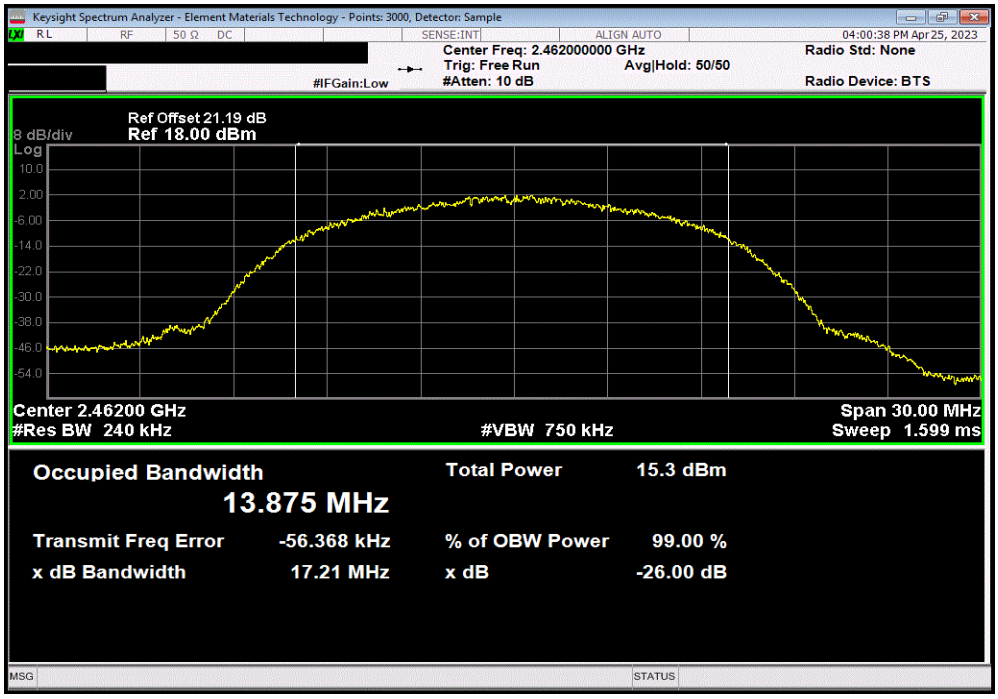
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				13.818 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz

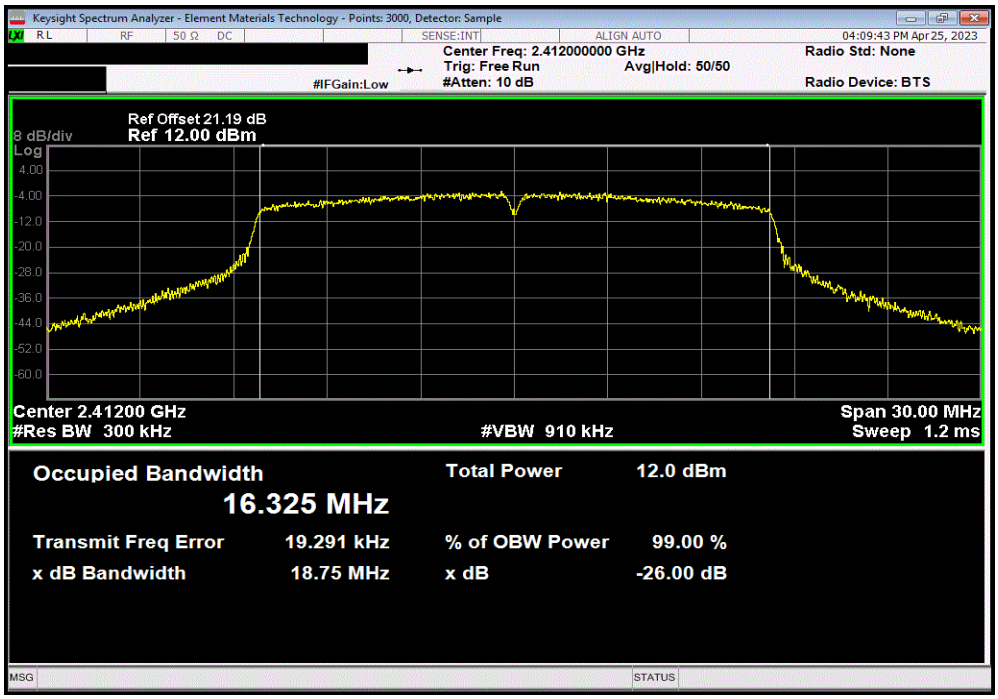
				Value	Limit	Result
				13.875 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

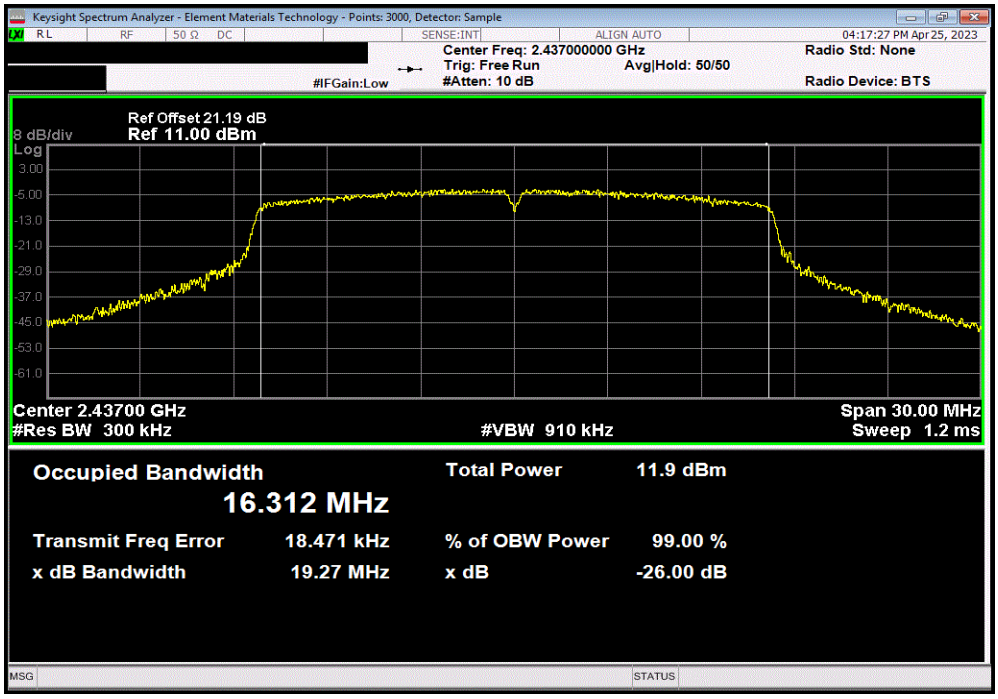
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				16.325 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz

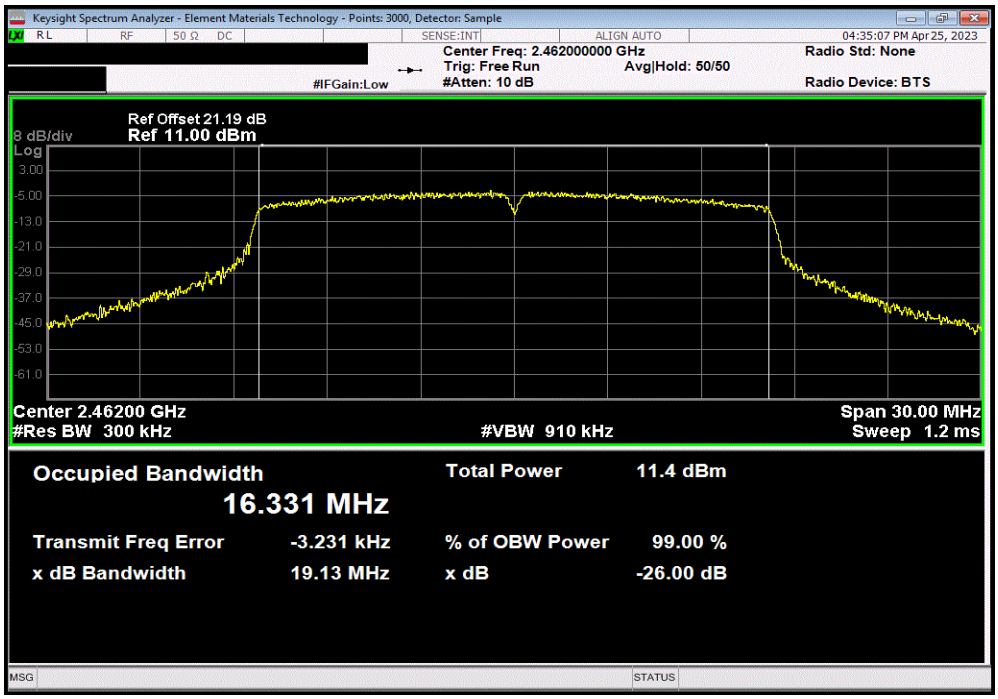
				Value	Limit	Result
				16.312 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

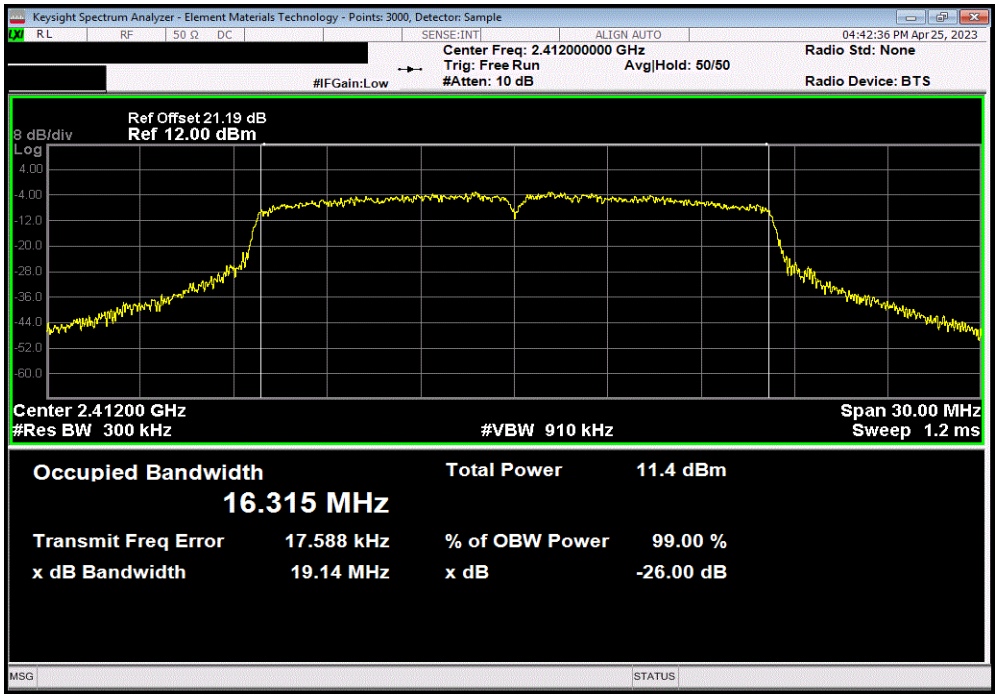
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				16.331 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz

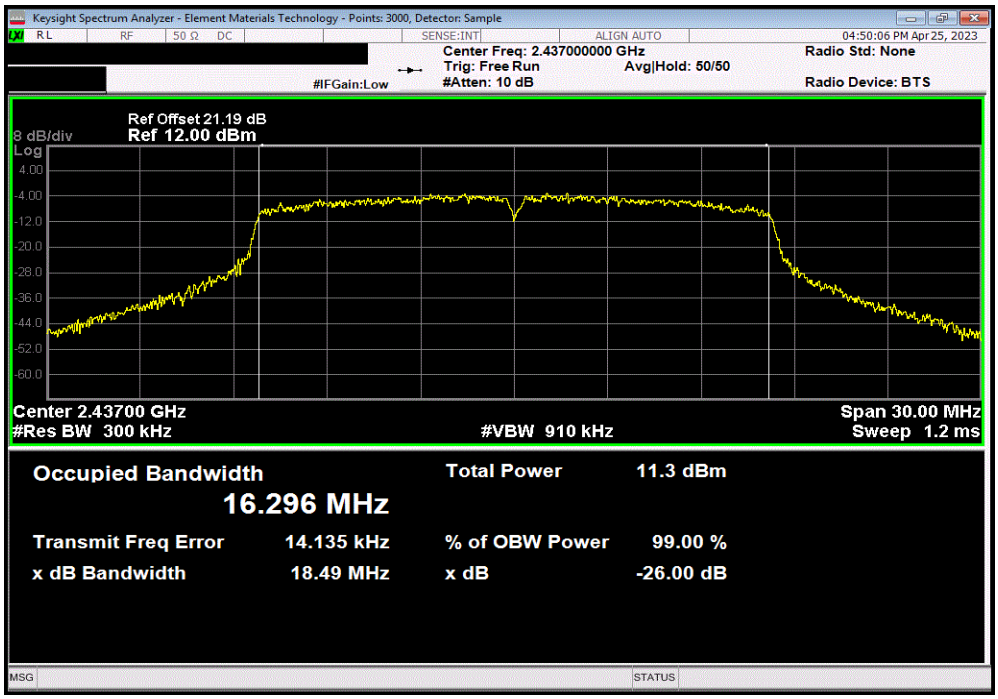
				Value	Limit	Result
				16.315 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

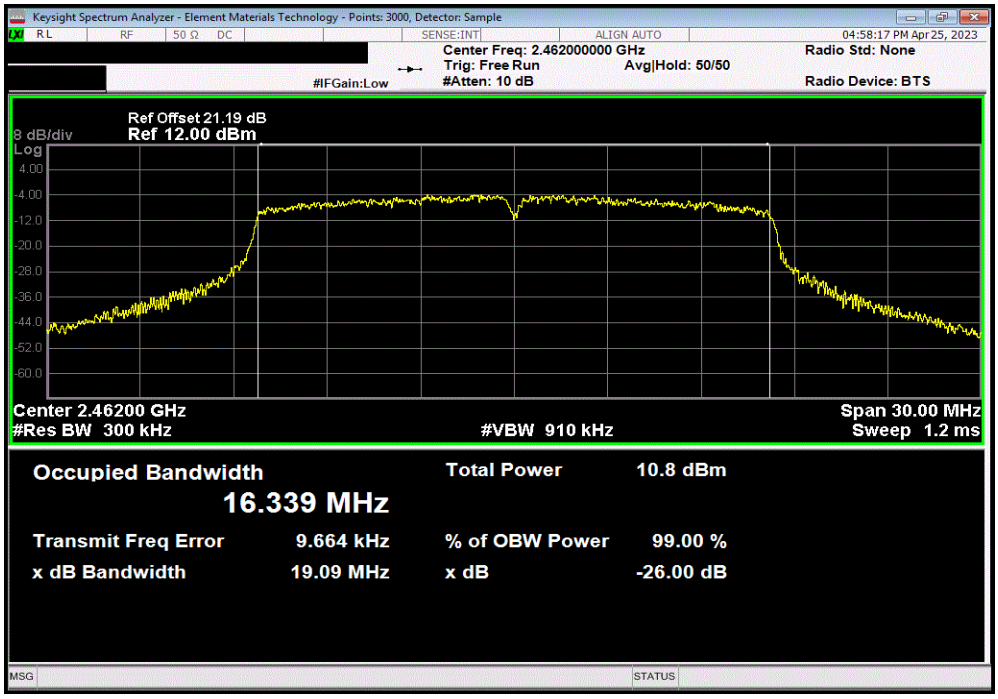
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				16.296 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz

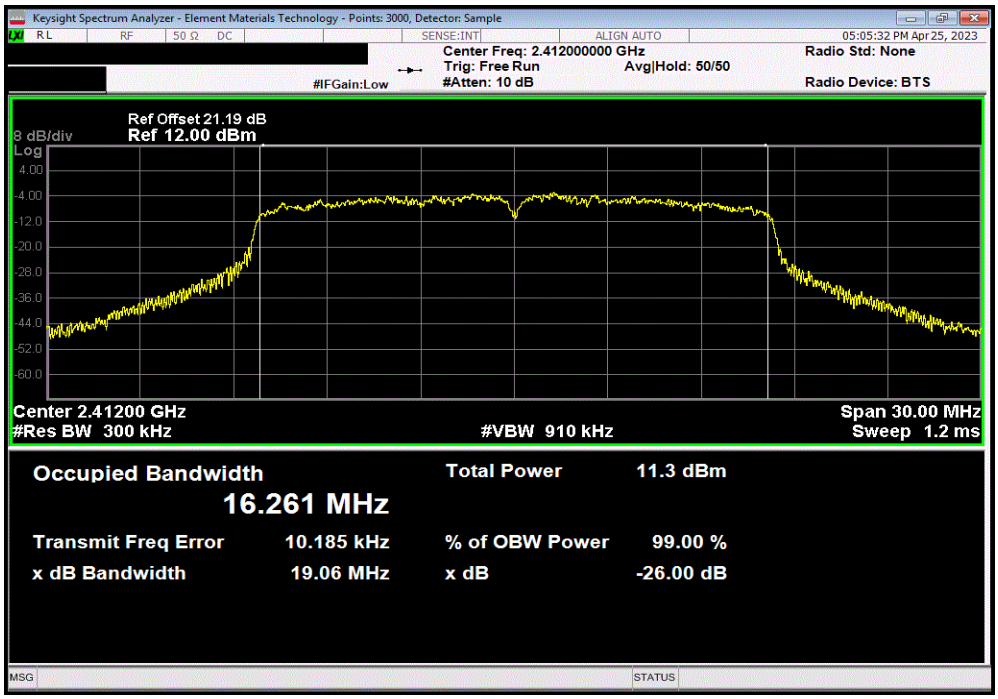
				Value	Limit	Result
				16.339 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

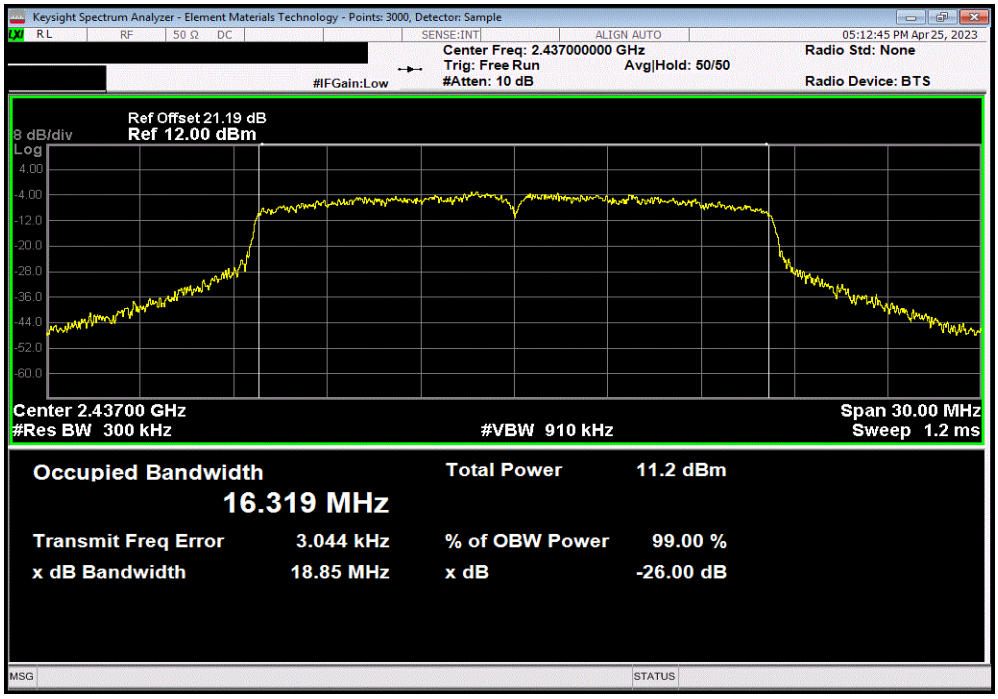
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz

				Value	Limit	Result
				16.261 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz

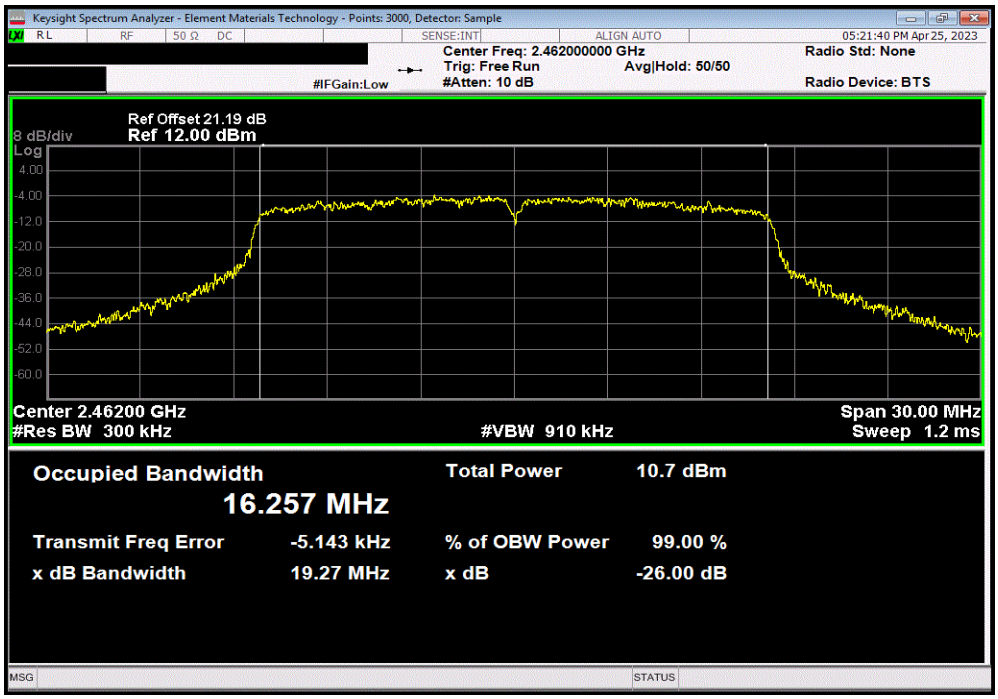
				Value	Limit	Result
				16.319 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

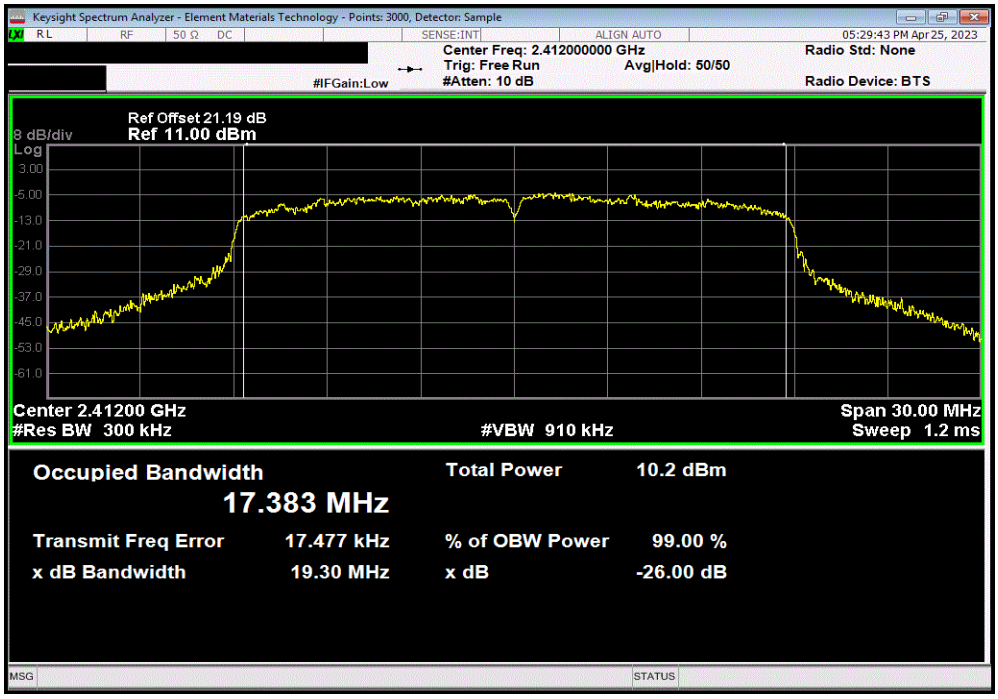
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz

				Value	Limit	Result
				16.257 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz

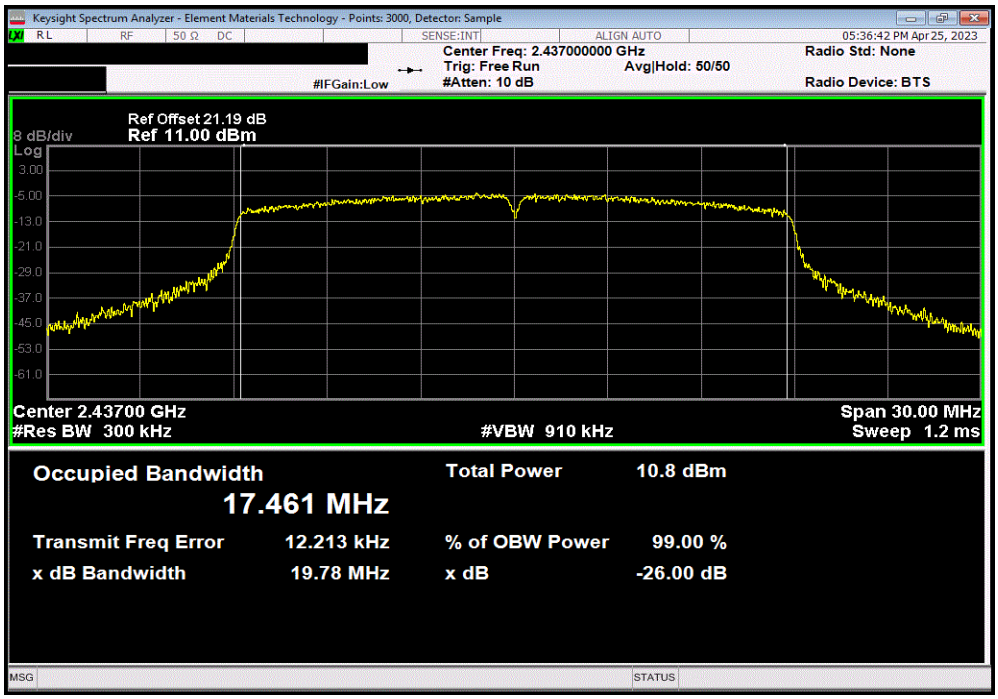
				Value	Limit	Result
				17.383 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

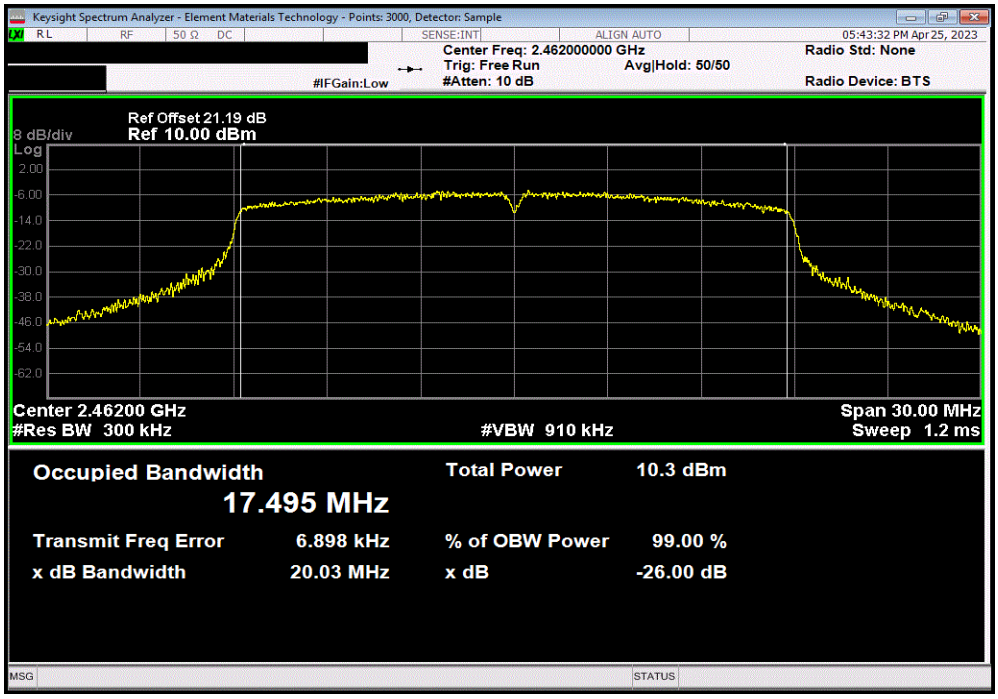
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz

				Value	Limit	Result
				17.461 MHz	N/A	N/A



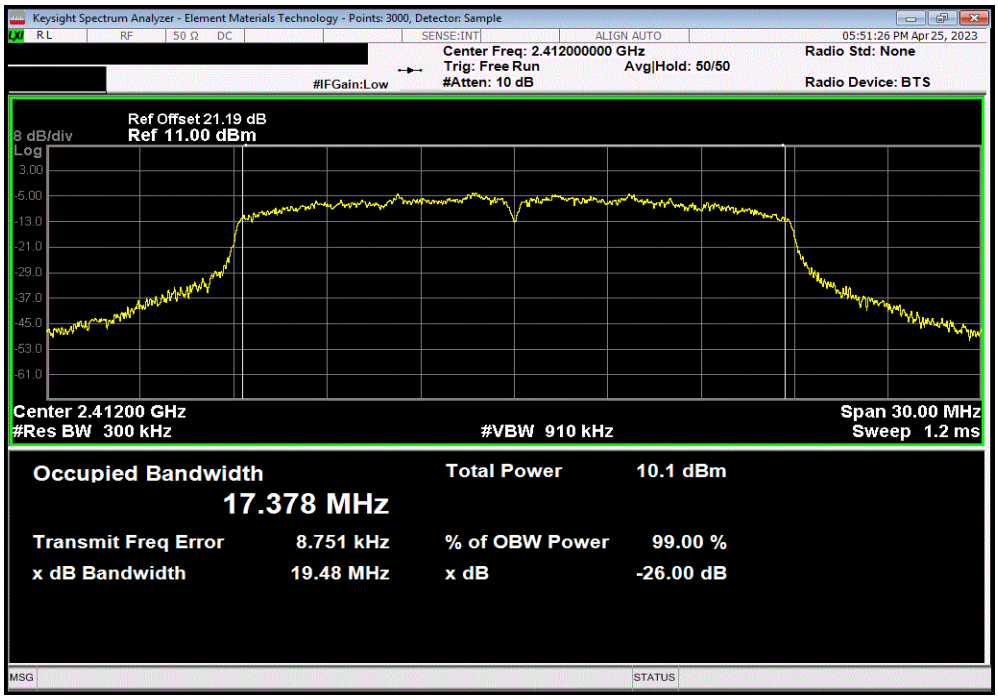
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz

				Value	Limit	Result
				17.495 MHz	N/A	N/A



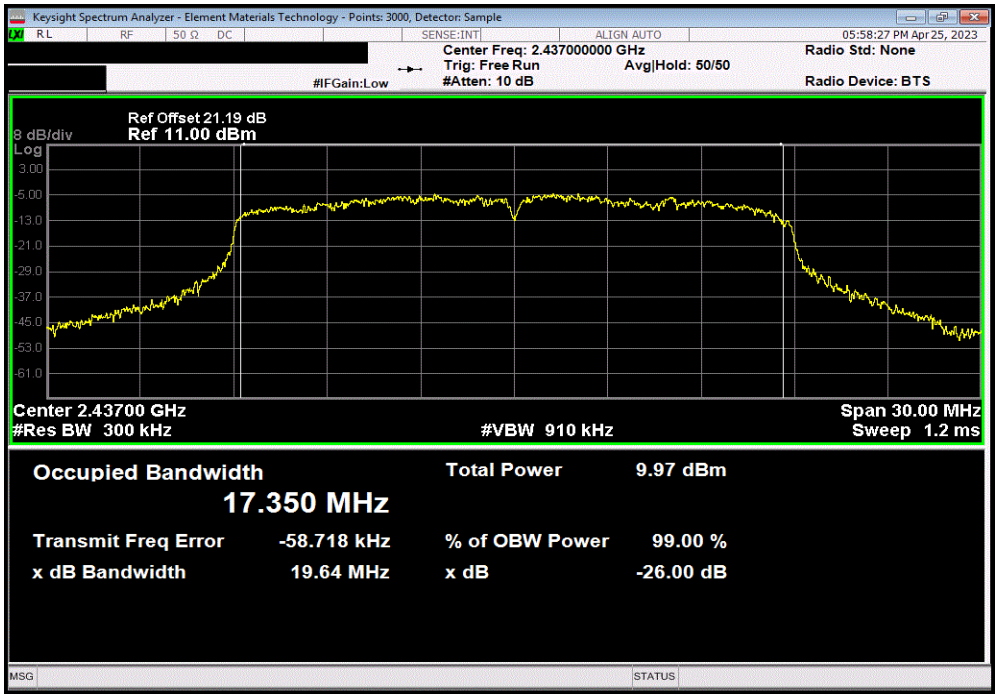
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz

				Value	Limit	Result
				17.378 MHz	N/A	N/A



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz

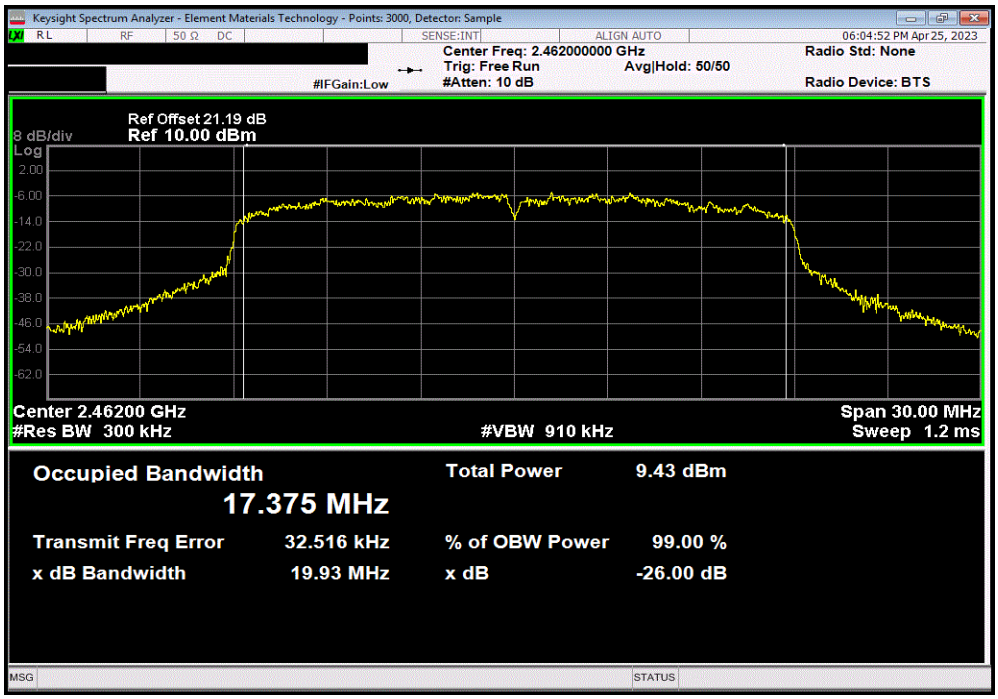
				Value	Limit	Result
				17.35 MHz	N/A	N/A



OCCUPIED BANDWIDTH (99%)

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz

				Value	Limit	Result
				17.375 MHz	N/A	N/A



EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

XMit 2023.02.14.0

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
Attenuator	Fairview Microwave	SA4018-20	TYE	2022-09-13	2023-09-13
Cable	Micro-Coax	UFD150A-1-0720-200200	TXG	2022-12-08	2023-12-08
Block - DC	Fairview Microwave	SD3239	ANE	2023-02-16	2024-02-16
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2023-03-17	2024-03-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

Prior to measuring output power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method AVGSA-2 in section 11.9.2.2.4 of ANSI C63.10:2013 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

Equivalent Isotropic Radiated Power (EIRP) = Max Measured Power + Antenna gain (dBi)

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

element

TbtTx 2022.06.03.0 XMit 2023.02.14.0

EUT:	V700			**Work Order:**	WTVD0085
Serial Number:	BWL7-000968			**Date:**	04/26/2023
Customer:	Motorola Solutions, Inc.			**Temperature:**	20.3°C
Attendees:	Navaid Karimi			**Humidity:**	46.9%
Project:	None			**Barometric Pres.:**	1010 mbar
Tested by:	Marty Martin	**Power:**	4.2VDC via Battery	**Job Site:**	TX07

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2023	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013

COMMENTS

All measurment path looses were accounted for in the reference level offset inluding any attenuators, filters, and DC blocks.

DEVIATIONS FROM TEST STANDARD

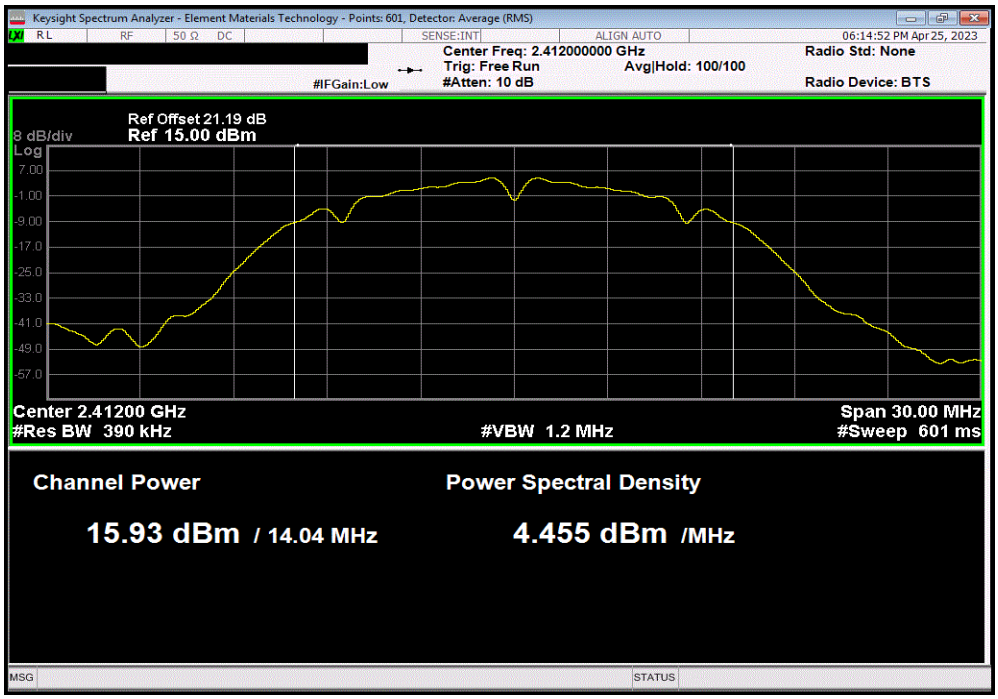
None

Configuration #	**WTVD0085-1**	*Signature*

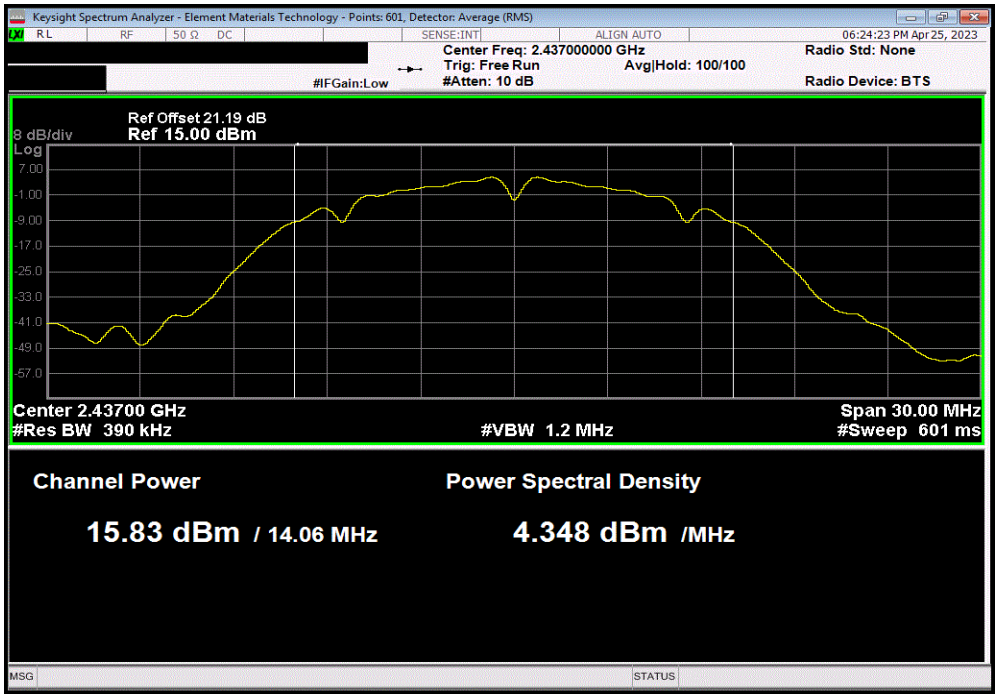
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
2400 MHz - 2483.5 MHz Band							
802.11(b) 1 Mbps							
Low Channel 1, 2412 MHz	15.928	0	15.9	2.7	18.6	36	Pass
Mid Channel 6, 2437 MHz	15.827	0	15.8	2.7	18.5	36	Pass
High Channel 11, 2462 MHz	15.457	0	15.5	2.7	18.2	36	Pass
802.11(b) 11 Mbps							
Low Channel 1, 2412 MHz	15.946	0.2	16.1	2.7	18.8	36	Pass
Mid Channel 6, 2437 MHz	15.769	0.2	16	2.7	18.7	36	Pass
High Channel 11, 2462 MHz	15.278	0.2	15.5	2.7	18.2	36	Pass
802.11(g) 6 Mbps							
Low Channel 1, 2412 MHz	12.048	0.2	12.2	2.7	14.9	36	Pass
Mid Channel 6, 2437 MHz	11.848	0.2	12	2.7	14.7	36	Pass
High Channel 11, 2462 MHz	11.468	0.2	11.7	2.7	14.4	36	Pass
802.11(g) 36 Mbps							
Low Channel 1, 2412 MHz	11.482	0.7	12.2	2.7	14.9	36	Pass
Mid Channel 6, 2437 MHz	11.345	0.7	12	2.7	14.7	36	Pass
High Channel 11, 2462 MHz	10.847	0.7	11.5	2.7	14.2	36	Pass
802.11(g) 54 Mbps							
Low Channel 1, 2412 MHz	11.223	1	12.2	2.7	14.9	36	Pass
Mid Channel 6, 2437 MHz	11.146	0.9	12	2.7	14.7	36	Pass
High Channel 11, 2462 MHz	10.661	0.9	11.6	2.7	14.3	36	Pass
802.11(n) MCS0							
Low Channel 1, 2412 MHz	10.17	0.9	11.1	2.7	13.8	36	Pass
Mid Channel 6, 2437 MHz	10.754	0.2	11	2.7	13.7	36	Pass
High Channel 11, 2462 MHz	10.31	0.2	10.5	2.7	13.2	36	Pass
802.11(n) MCS7							
Low Channel 1, 2412 MHz	10.053	1	11.1	2.7	13.8	36	Pass
Mid Channel 6, 2437 MHz	9.97	1	11	2.7	13.7	36	Pass
High Channel 11, 2462 MHz	9.426	1	10.4	2.7	13.1	36	Pass

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
15.928	0	15.9	2.7	18.6	36	Pass

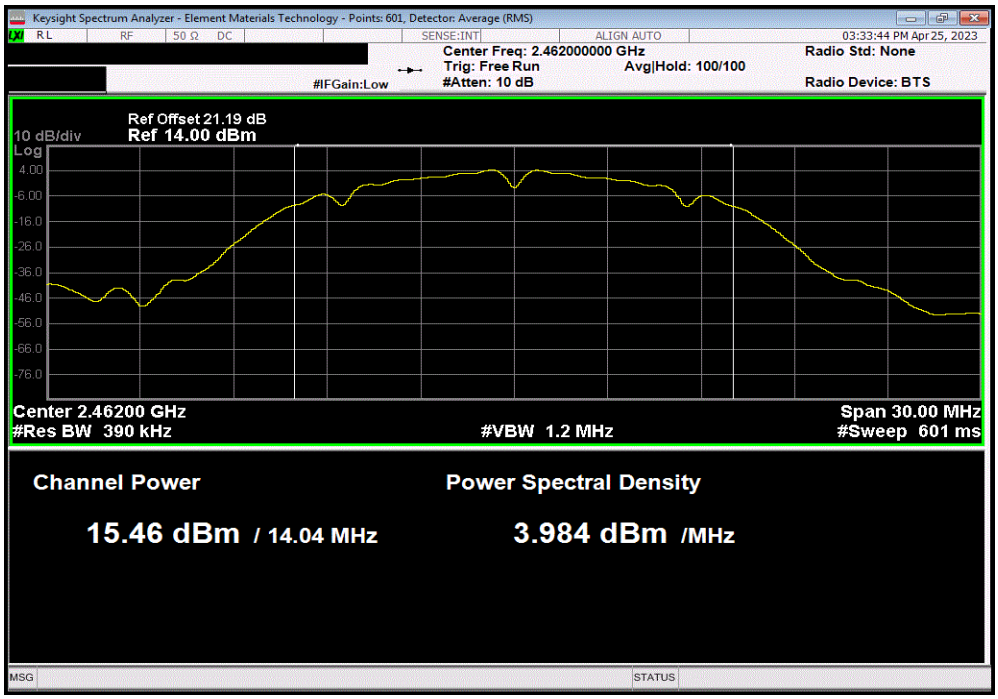


2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
15.827	0	15.8	2.7	18.5	36	Pass

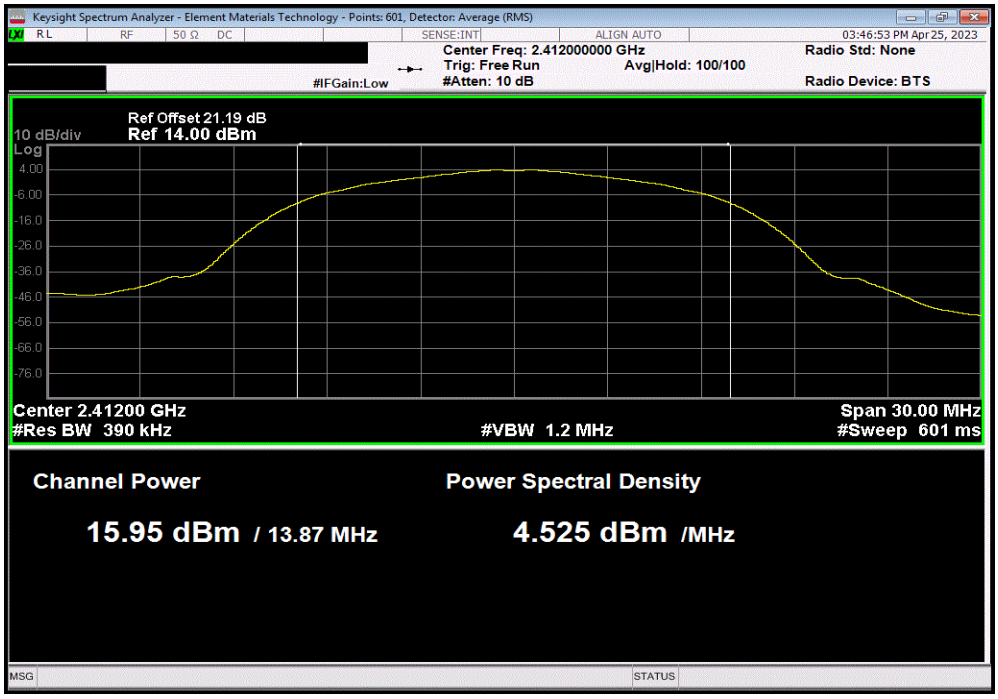


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
15.457	0	15.5	2.7	18.2	36	Pass



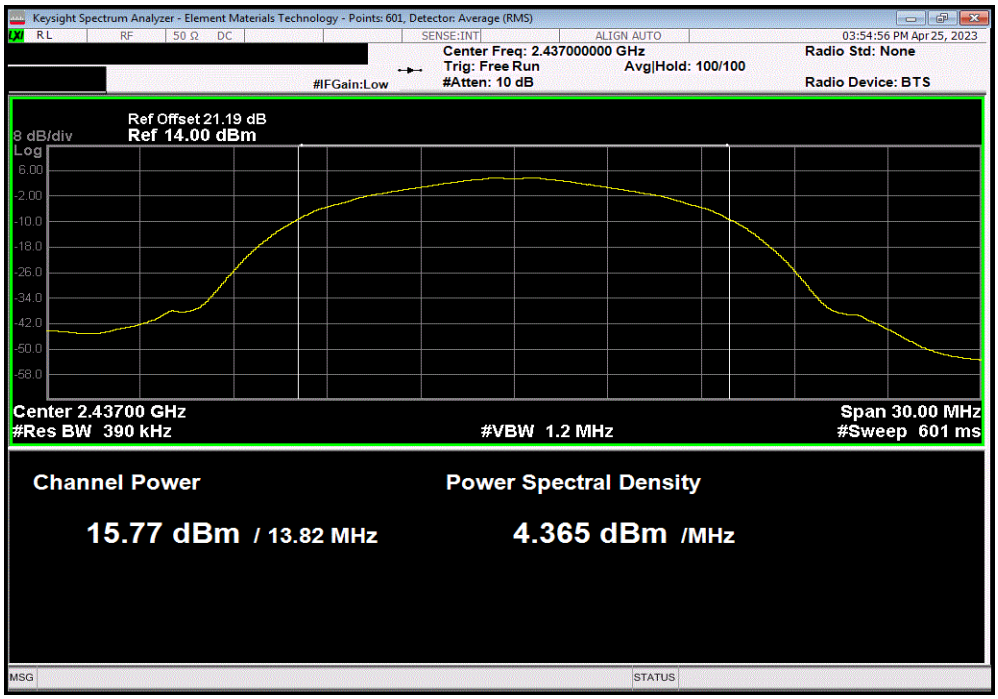
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
15.946	0.2	16.1	2.7	18.8	36	Pass



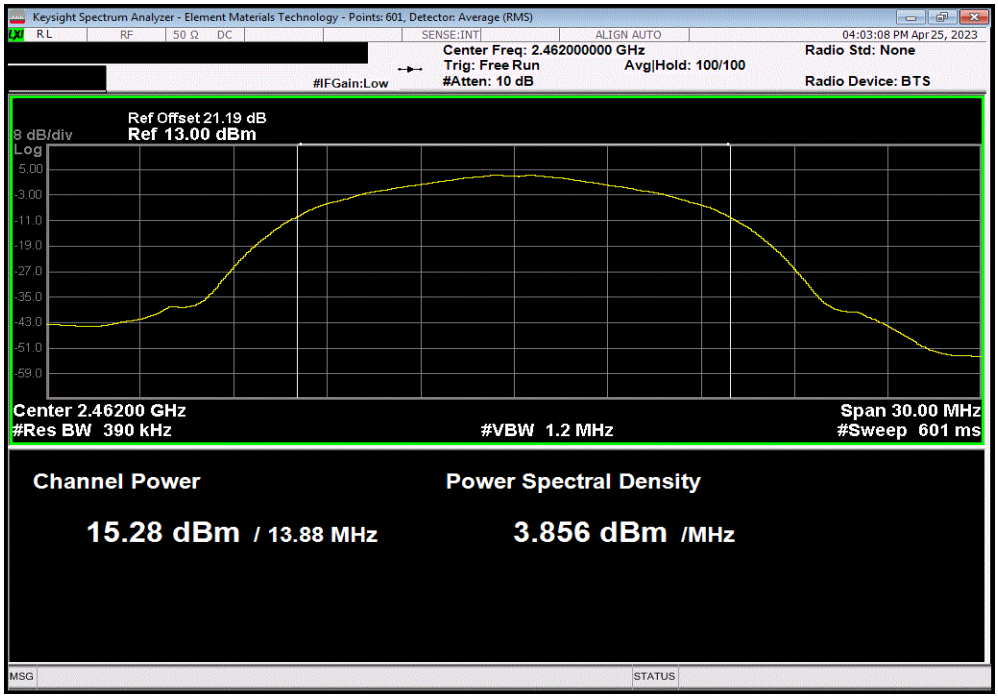
EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

TbtTx 2022.06.03.0 XMit 2023.02.14.0

2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
15.769	0.2	16	2.7	18.7	36	Pass

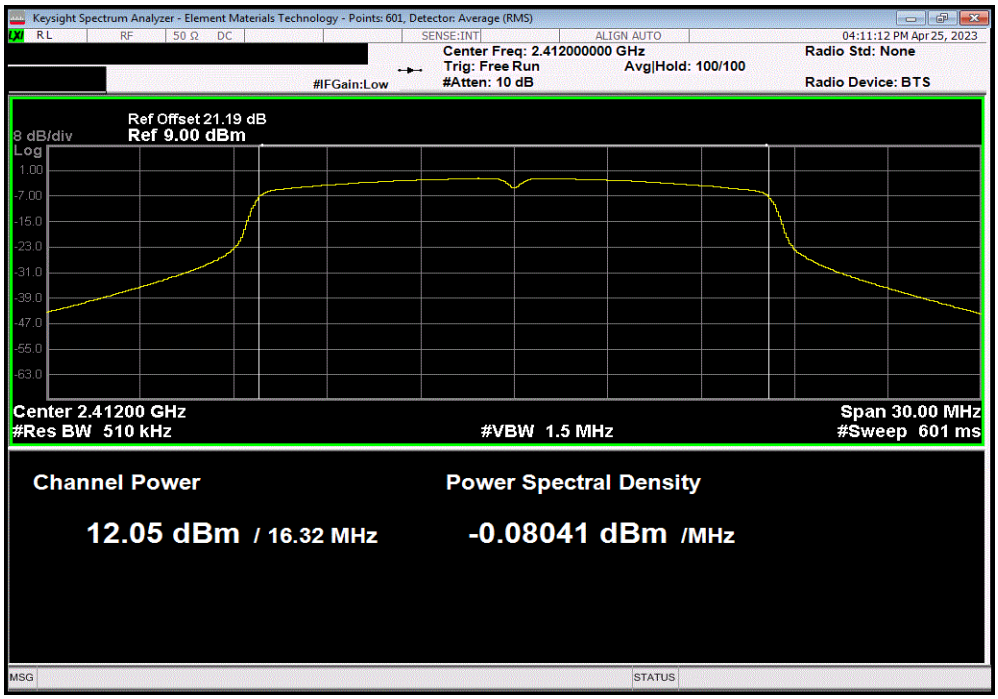


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
15.278	0.2	15.5	2.7	18.2	36	Pass

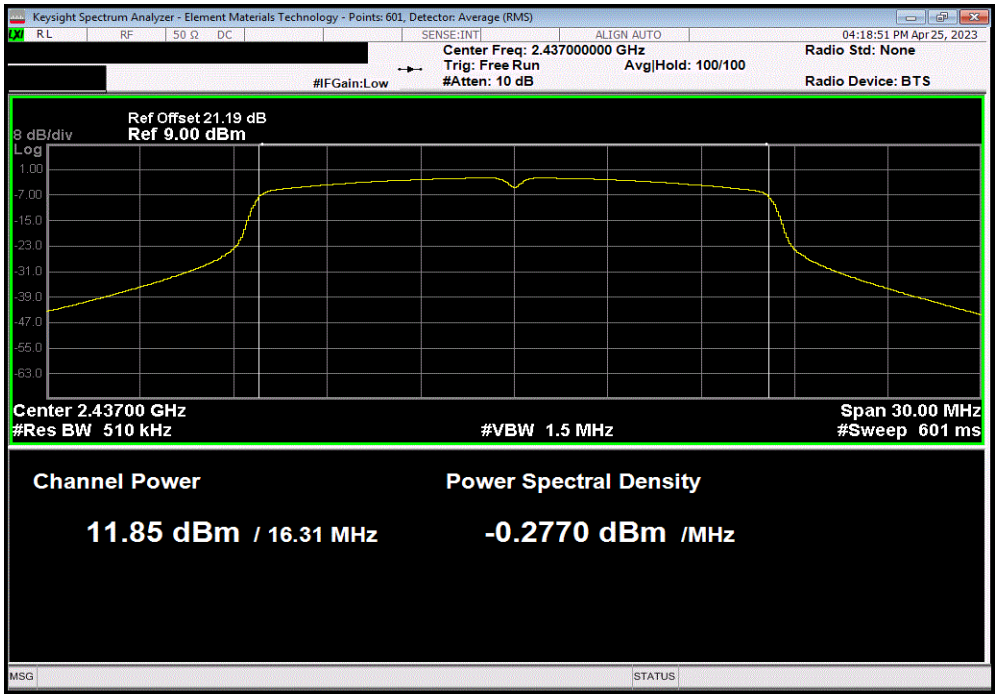


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
12.048	0.2	12.2	2.7	14.9	36	Pass

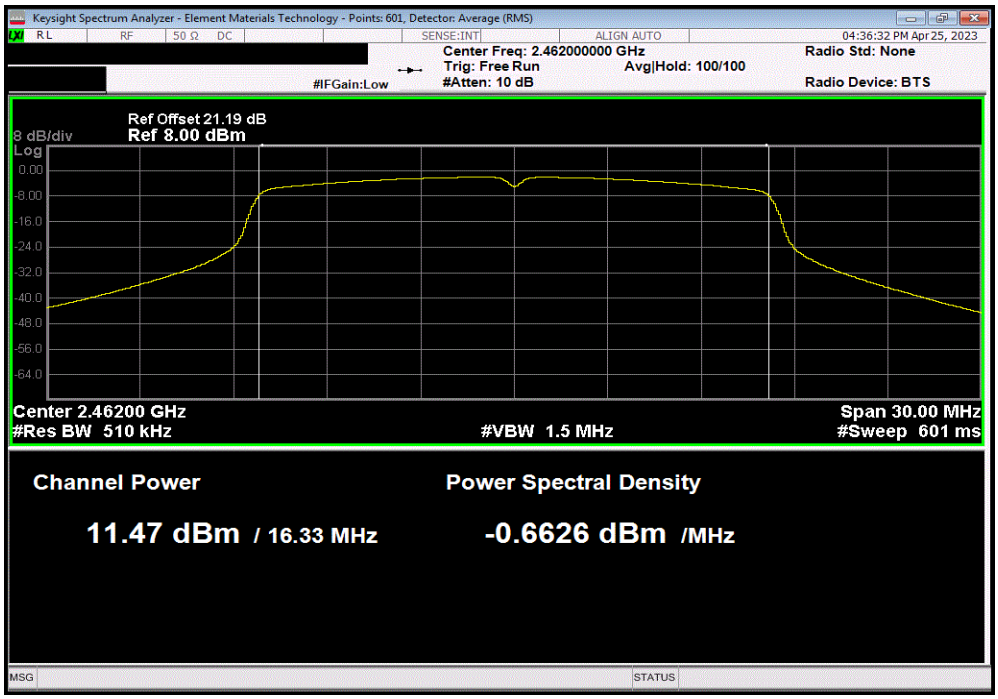


2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.848	0.2	12	2.7	14.7	36	Pass

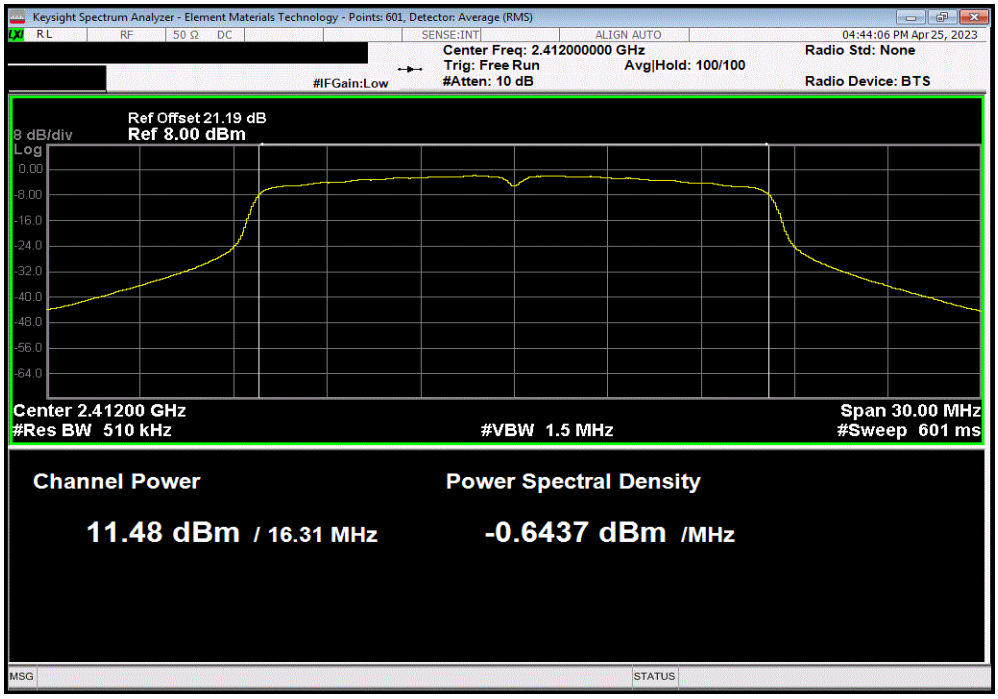


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.468	0.2	11.7	2.7	14.4	36	Pass

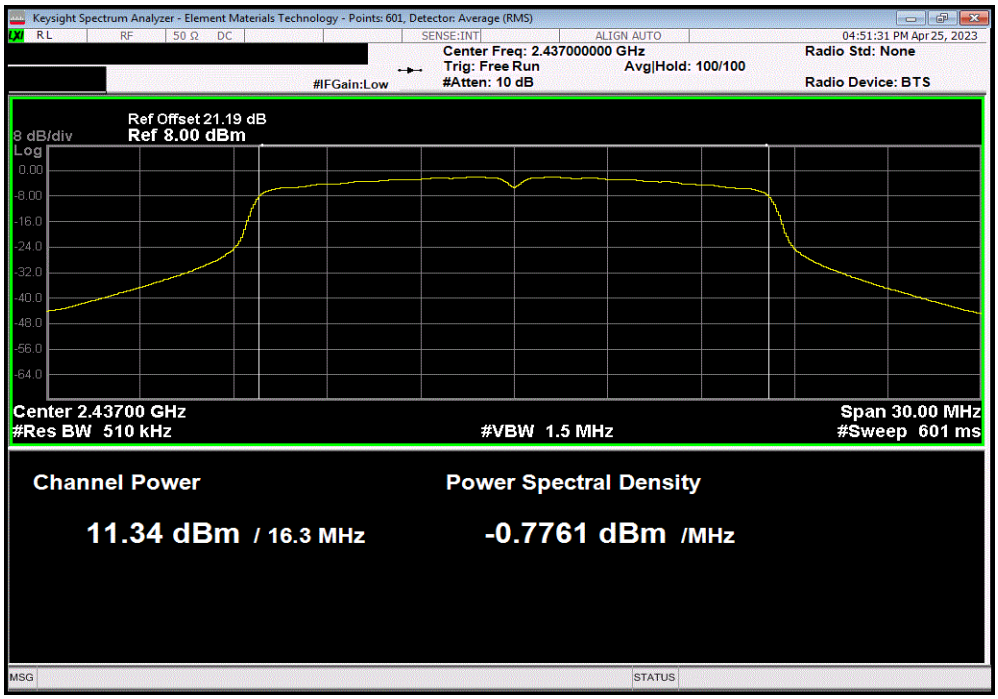


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.482	0.7	12.2	2.7	14.9	36	Pass

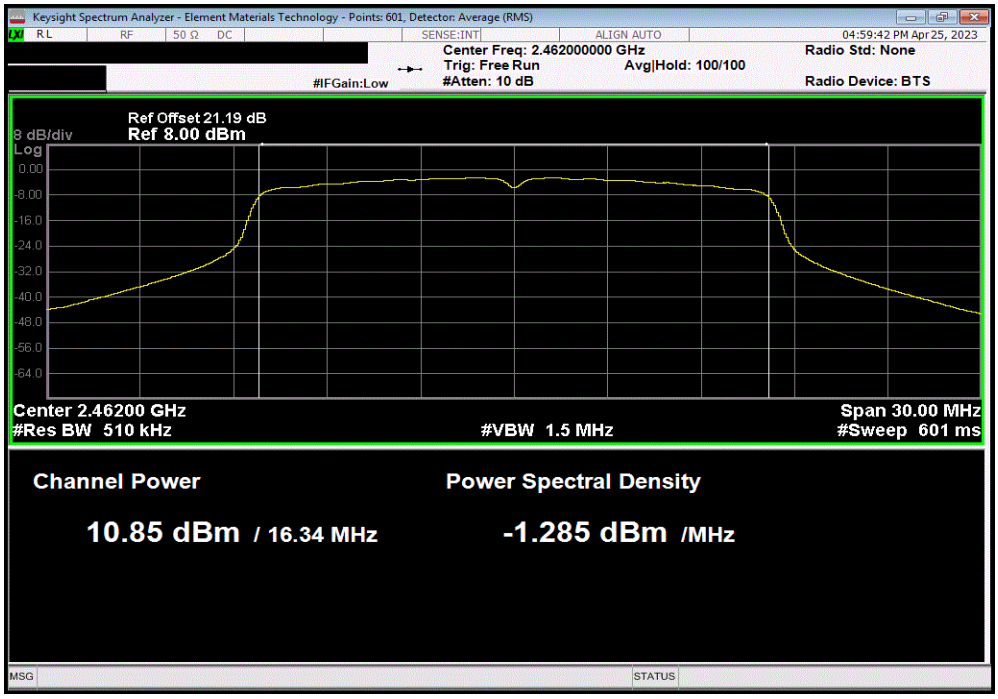


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.345	0.7	12	2.7	14.7	36	Pass

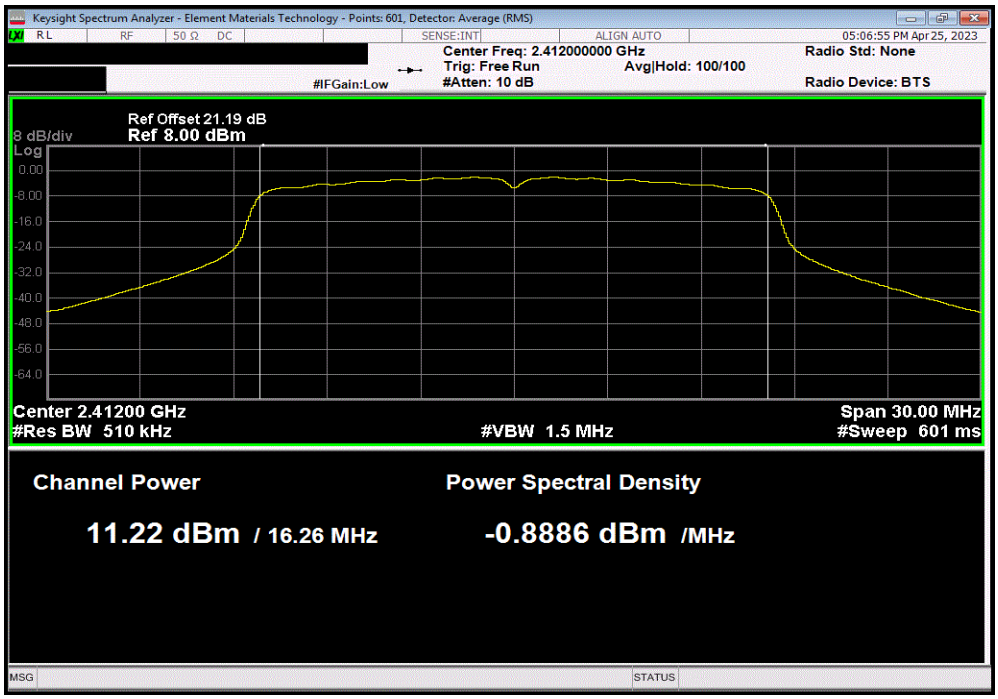


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.847	0.7	11.5	2.7	14.2	36	Pass

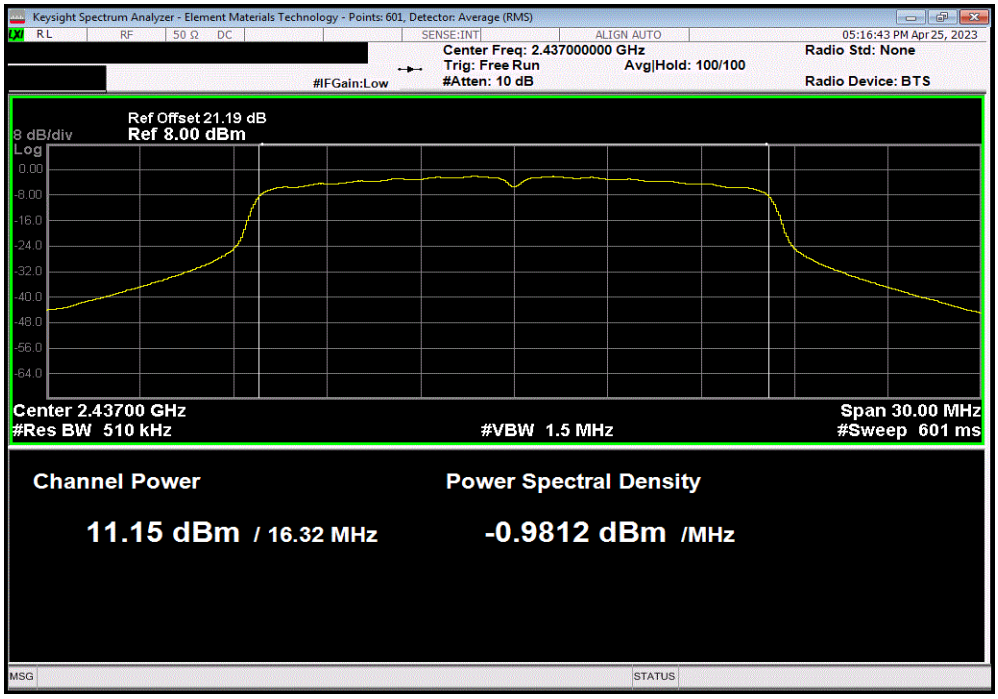


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.223	1	12.2	2.7	14.9	36	Pass

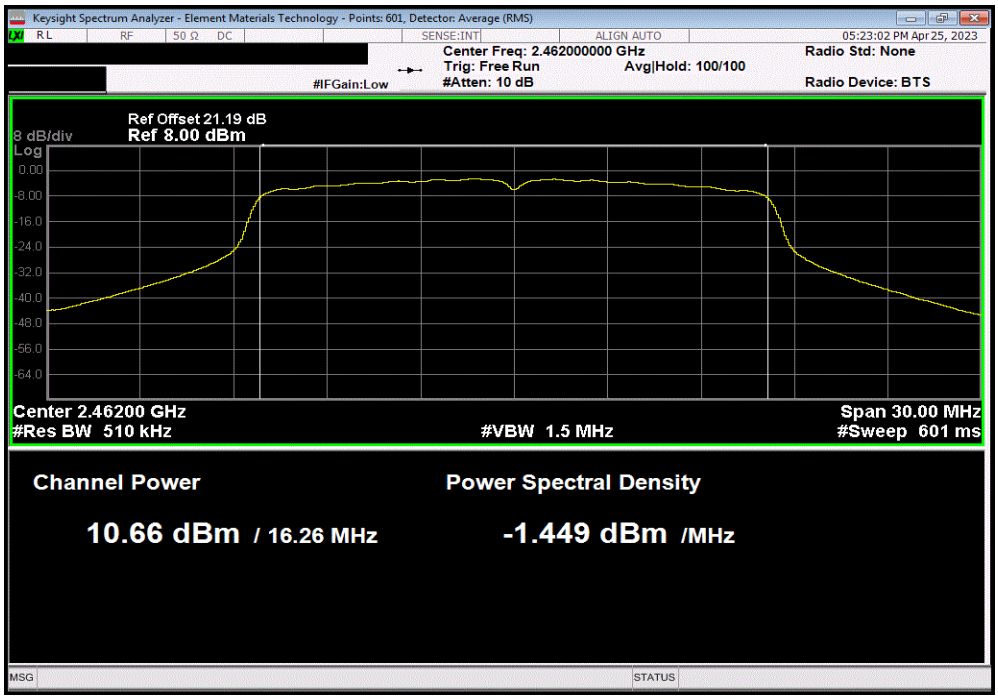


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.146	0.9	12	2.7	14.7	36	Pass

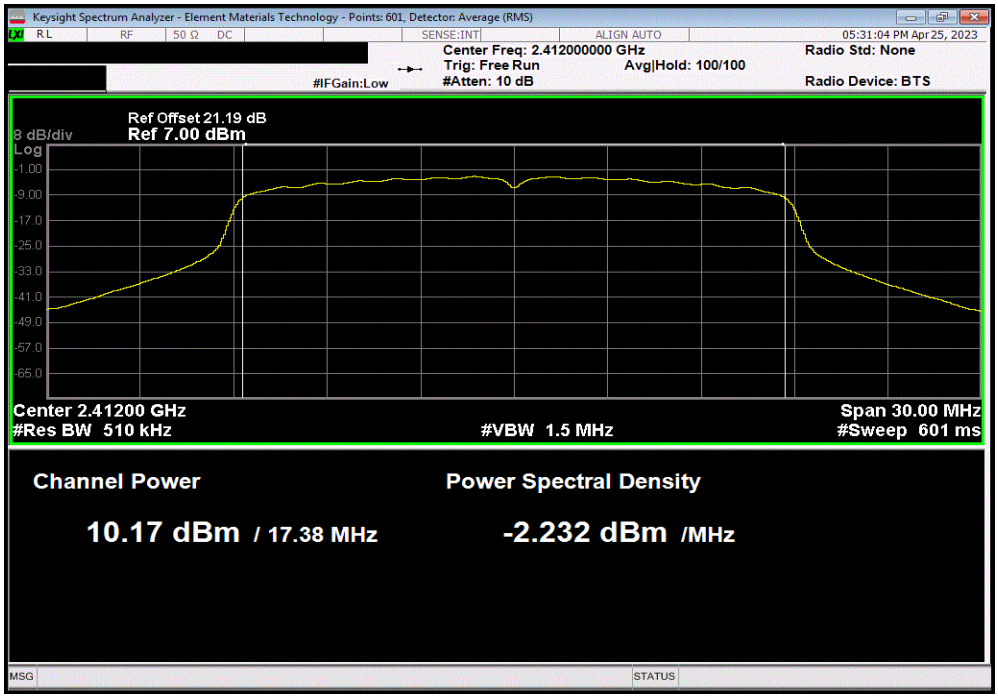


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.661	0.9	11.6	2.7	14.3	36	Pass

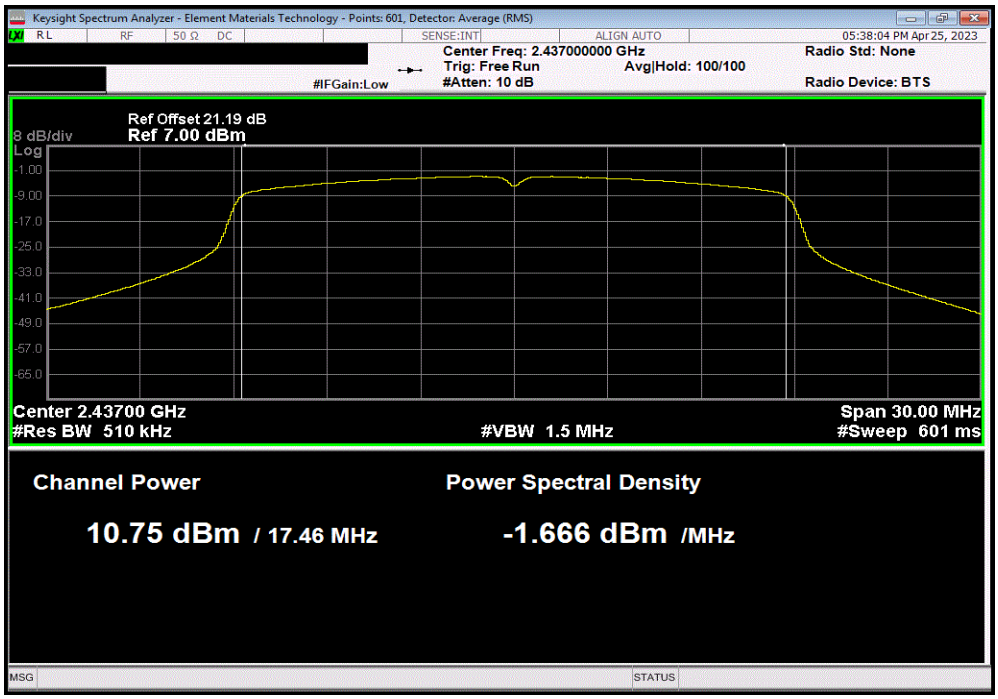


2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.17	0.9	11.1	2.7	13.8	36	Pass

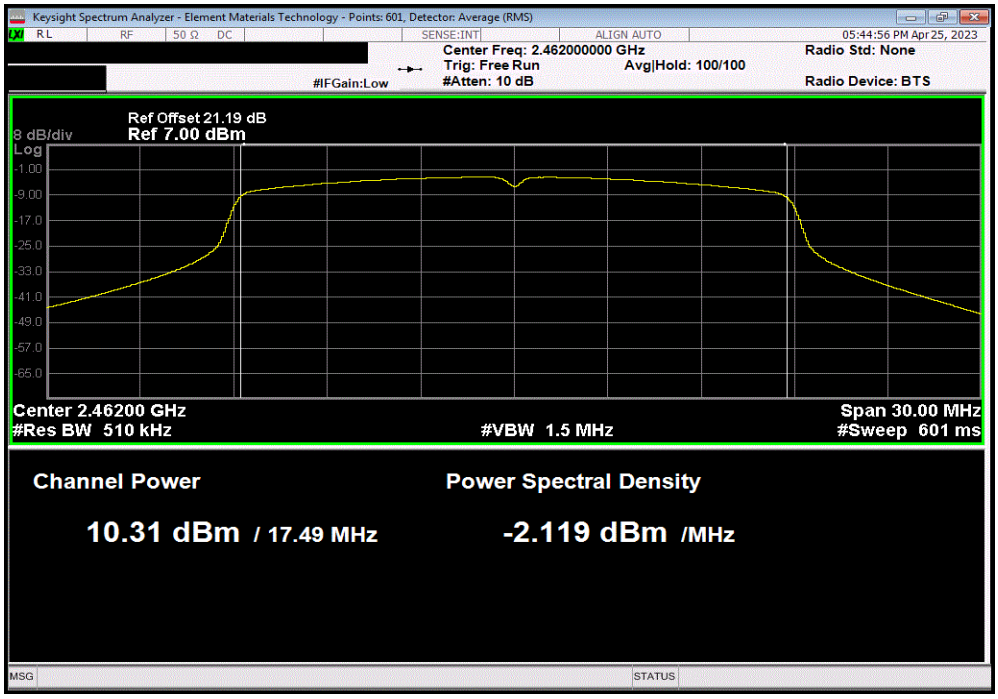


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

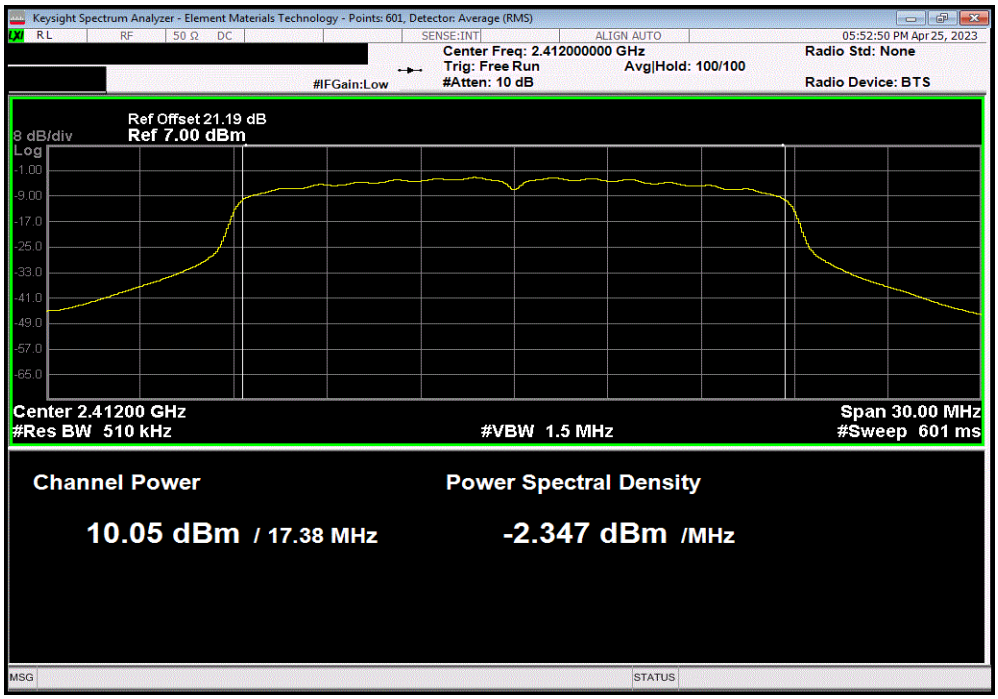
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.754	0.2	11	2.7	13.7	36	Pass



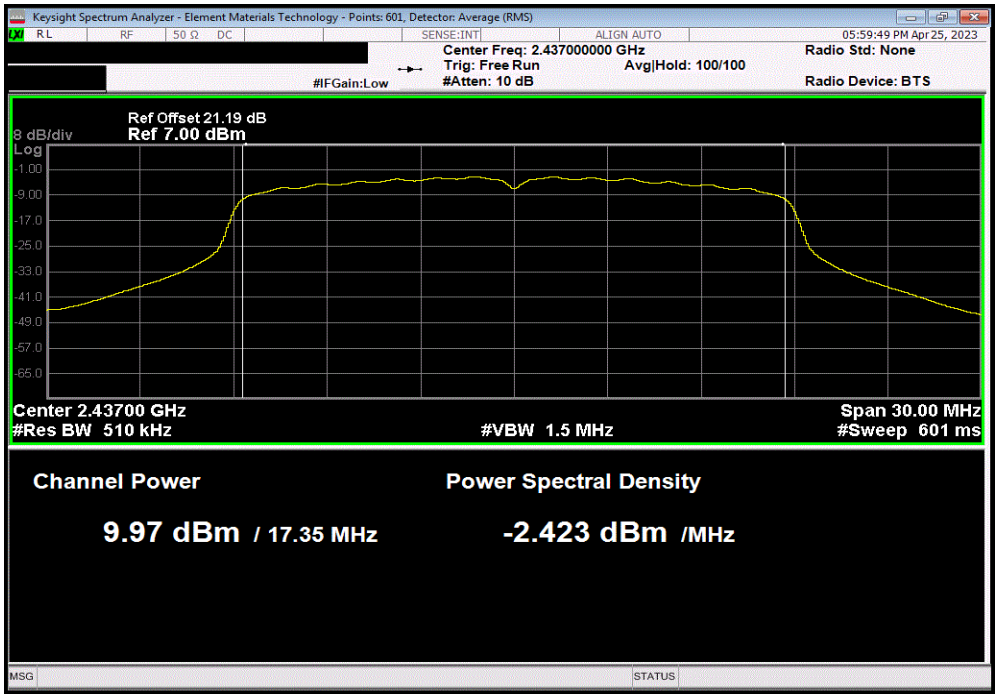
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.31	0.2	10.5	2.7	13.2	36	Pass



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.053	1	11.1	2.7	13.8	36	Pass

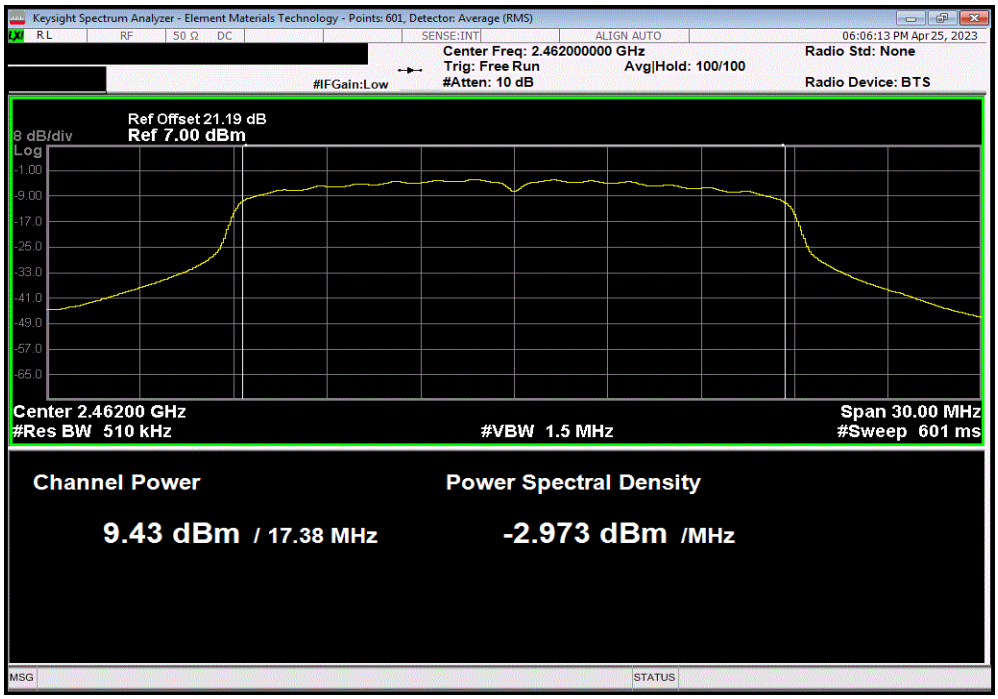


2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.97	1	11	2.7	13.7	36	Pass



EQUIVALENT ISOTROPIC RADIATED POWER (EIRP)

2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
9.426	1	10.4	2.7	13.1	36	Pass



OUTPUT POWER

XMit 2023.02.14.0

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
Attenuator	Fairview Microwave	SA4018-20	TYE	2022-09-13	2023-09-13
Block - DC	Fairview Microwave	SD3239	ANE	2023-02-16	2024-02-16
Cable	Micro-Coax	UFD150A-1-0720-200200	TXG	2022-12-08	2023-12-08
Generator - Signal	Agilent	N5173B	TIW	2020-07-17	2023-07-17
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	2023-03-17	2024-03-17

TEST DESCRIPTION

The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer.

The fundamental emission output power (maximum average conducted output power) was measured using the channels and modes as called out on the following data sheets. The transmit power was set to its default maximum.

Prior to measuring output power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Maximum Conducted Output Power. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The method AVGSA-2 in section 11.9.2.2.4 of ANSI C63.10:2013 was used to make the measurement. This method uses trace averaging across ON and OFF times of the EUT transmissions in the spectrum analyzer channel power function using an RMS detector. Following the measurement a duty cycle correction was applied by adding [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times.

OUTPUT POWER

TbtTx 2022.06.03.0 XMit 2023.02.14.0

EUT:	V700			**Work Order:**	WTVD0085
Serial Number:	BWL7-000968			**Date:**	04/26/2023
Customer:	Motorola Solutions, Inc.			**Temperature:**	20.8°C
Attendees:	Navaid Karimi			**Humidity:**	46.8%
Project:	None			**Barometric Pres.:**	1010 mbar
Tested by:	Marty Martin	**Power:**	4.2VDC via Battery	**Job Site:**	TX07

TEST SPECIFICATIONS	**Test Method**
FCC 15.247:2023	ANSI C63.10:2013
RSS-Gen Issue 5:2018+A1:2019+A2:2021	ANSI C63.10:2013
RSS-247 Issue 2:2017	ANSI C63.10:2013

COMMENTS

All measurment path looses were accounted for in the reference level offset inluding any attenuators, filters, and DC blocks.

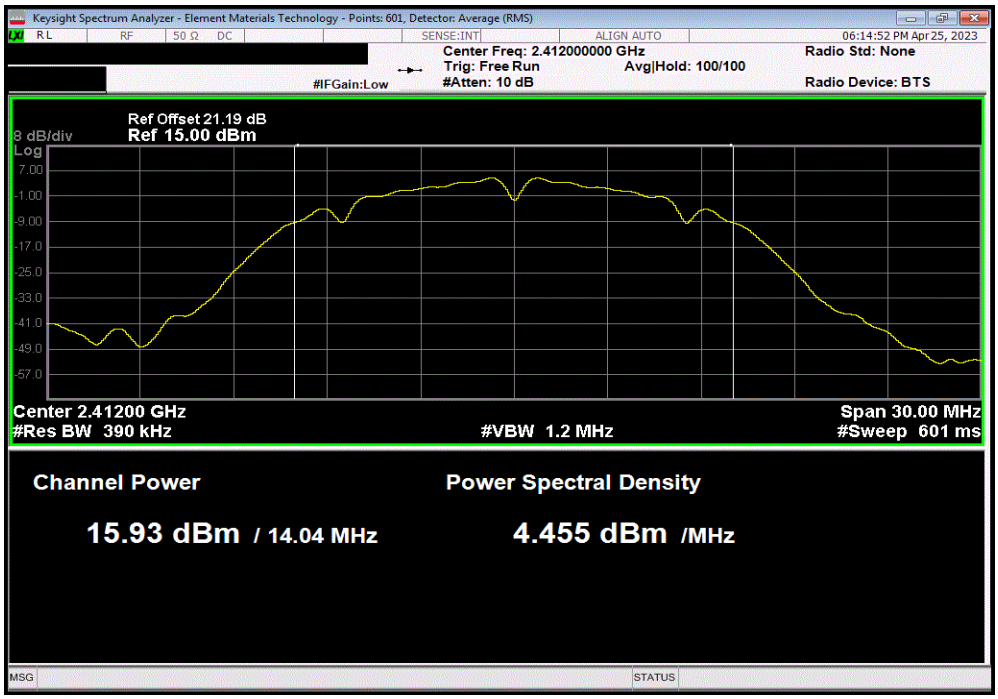
DEVIATIONS FROM TEST STANDARD

None

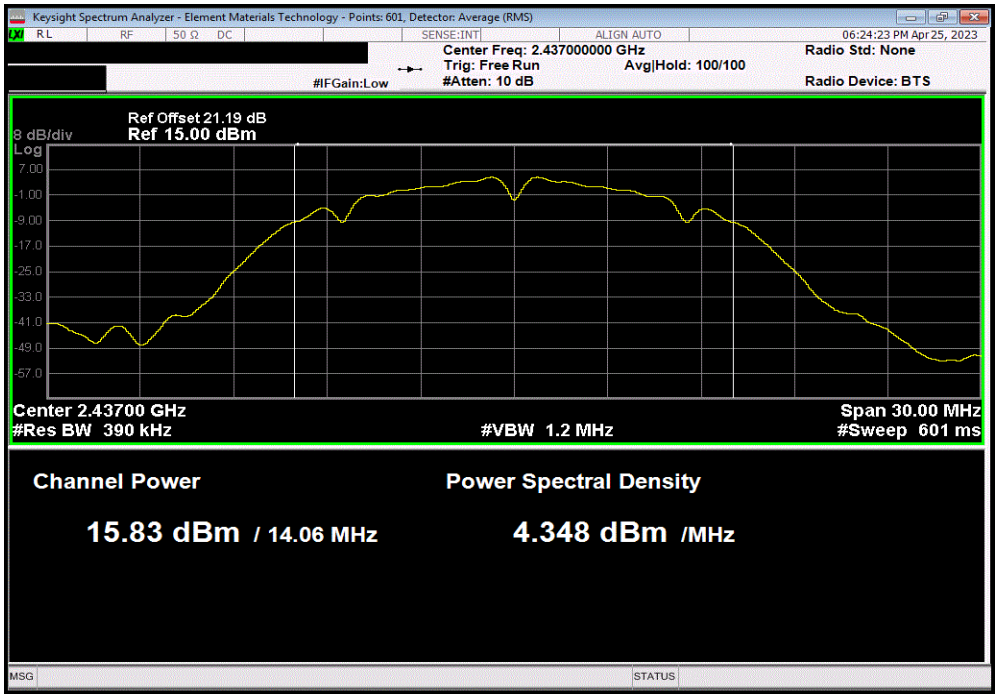
Configuration #	**WTVD0085-1**	*Signature* Marty Martin

	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
2400 MHz - 2483.5 MHz Band					
802.11(b) 1 Mbps					
Low Channel 1, 2412 MHz	15.928	0	15.9	30	Pass
Mid Channel 6, 2437 MHz	15.827	0	15.8	30	Pass
High Channel 11, 2462 MHz	15.457	0	15.5	30	Pass
802.11(b) 11 Mbps					
Low Channel 1, 2412 MHz	15.946	0.2	16.1	30	Pass
Mid Channel 6, 2437 MHz	15.769	0.2	16	30	Pass
High Channel 11, 2462 MHz	15.278	0.2	15.5	30	Pass
802.11(g) 6 Mbps					
Low Channel 1, 2412 MHz	12.048	0.2	12.2	30	Pass
Mid Channel 6, 2437 MHz	11.848	0.2	12	30	Pass
High Channel 11, 2462 MHz	11.468	0.2	11.7	30	Pass
802.11(g) 36 Mbps					
Low Channel 1, 2412 MHz	11.482	0.7	12.2	30	Pass
Mid Channel 6, 2437 MHz	11.345	0.7	12	30	Pass
High Channel 11, 2462 MHz	10.847	0.7	11.5	30	Pass
802.11(g) 54 Mbps					
Low Channel 1, 2412 MHz	11.223	1	12.2	30	Pass
Mid Channel 6, 2437 MHz	11.146	0.9	12	30	Pass
High Channel 11, 2462 MHz	10.661	0.9	11.6	30	Pass
802.11(n) MCS0					
Low Channel 1, 2412 MHz	10.17	0.9	11.1	30	Pass
Mid Channel 6, 2437 MHz	10.754	0.2	11	30	Pass
High Channel 11, 2462 MHz	10.31	0.2	10.5	30	Pass
802.11(n) MCS7					
Low Channel 1, 2412 MHz	10.053	1	11.1	30	Pass
Mid Channel 6, 2437 MHz	9.97	1	11	30	Pass
High Channel 11, 2462 MHz	9.426	1	10.4	30	Pass

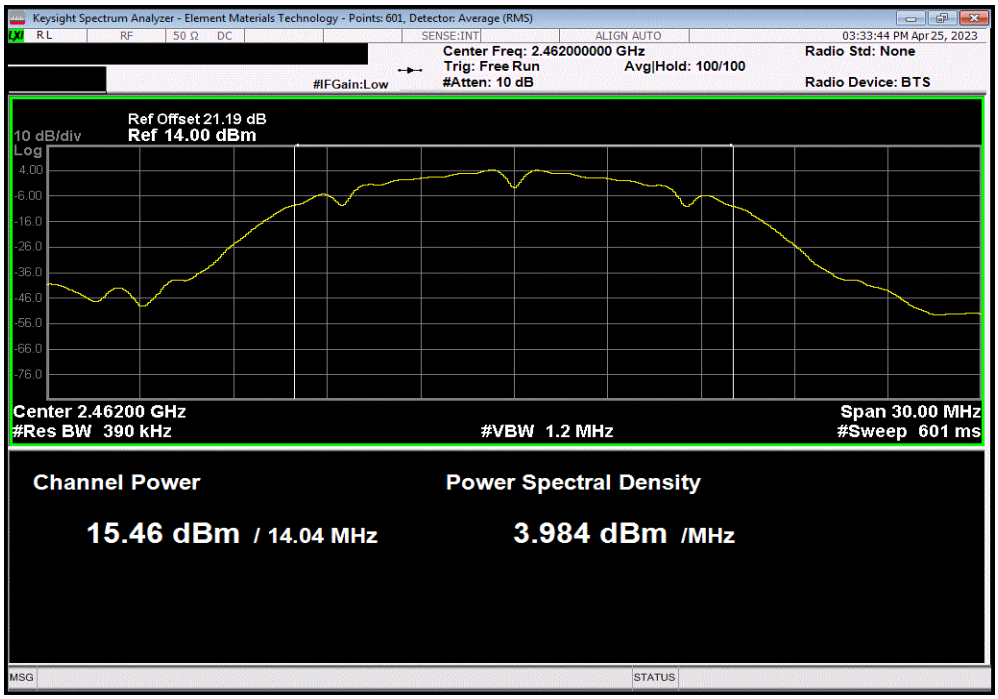
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		15.928	0	15.9	30	Pass



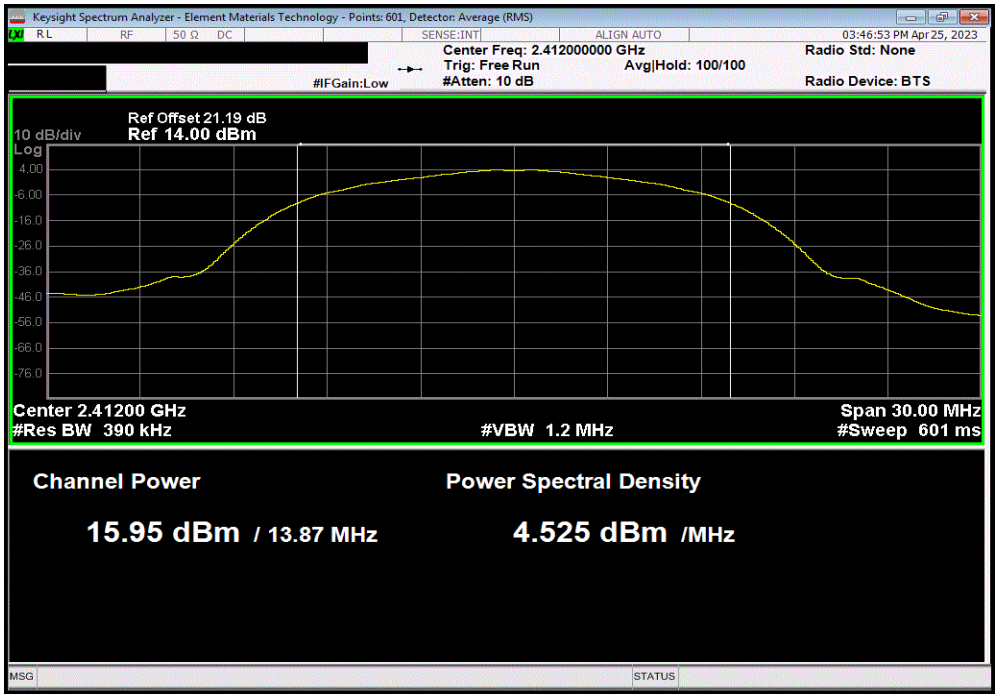
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		15.827	0	15.8	30	Pass



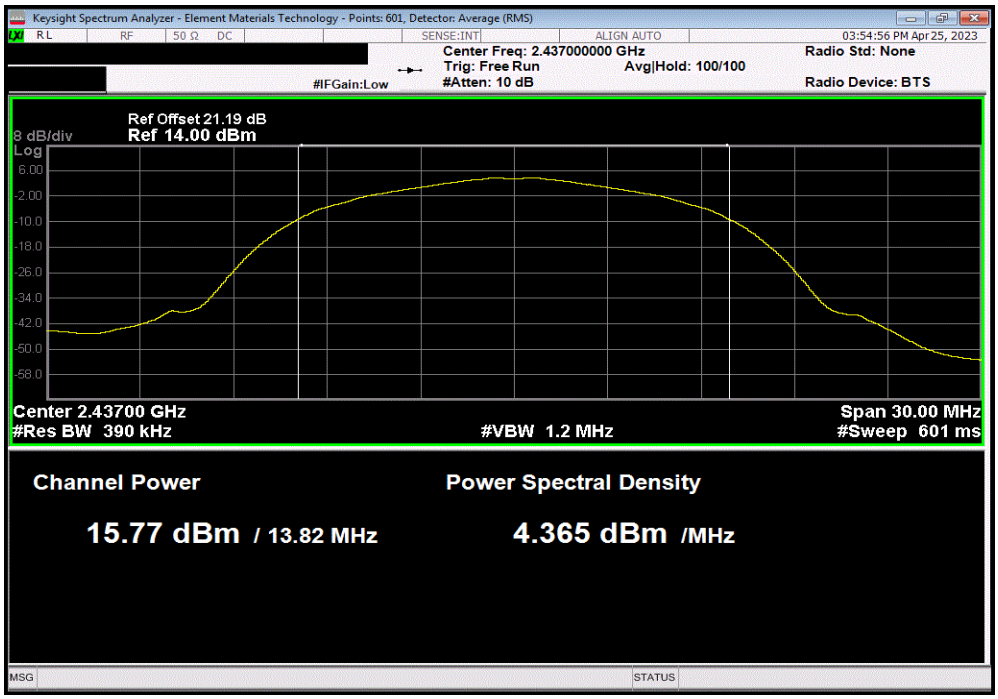
2400 MHz - 2483.5 MHz Band, 802.11(b) 1 Mbps, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		15.457	0	15.5	30	Pass



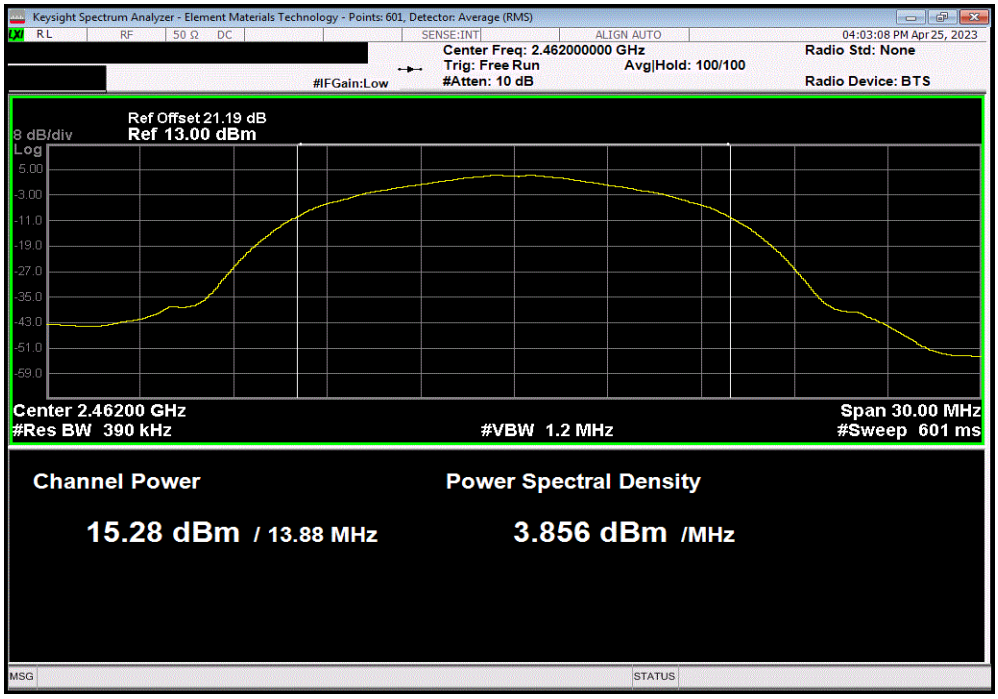
2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		15.946	0.2	16.1	30	Pass



2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		15.769	0.2	16	30	Pass

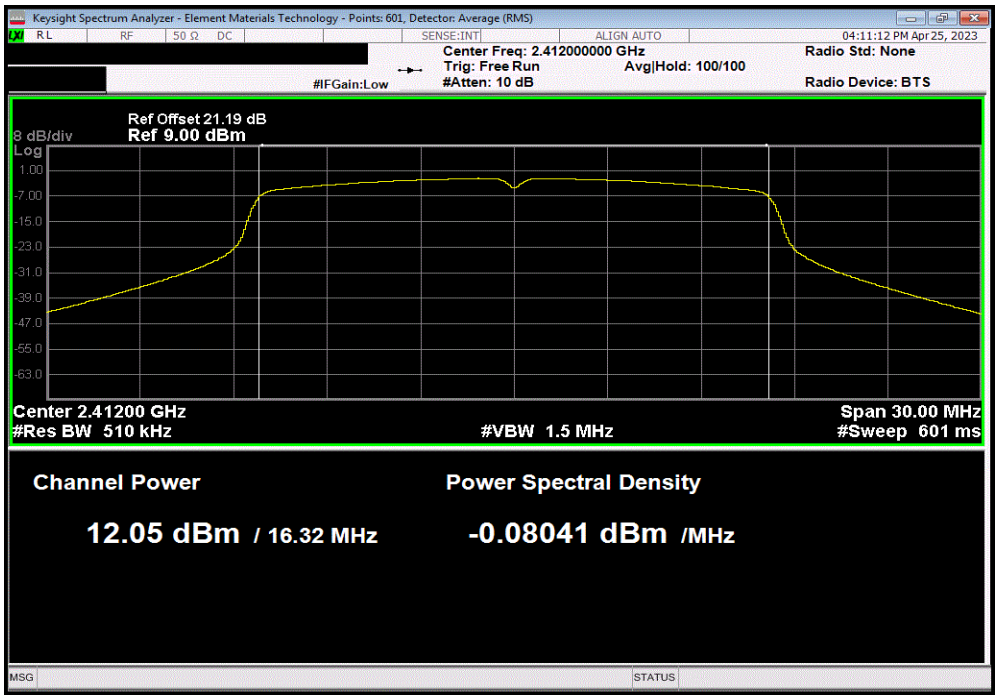


2400 MHz - 2483.5 MHz Band, 802.11(b) 11 Mbps, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		15.278	0.2	15.5	30	Pass

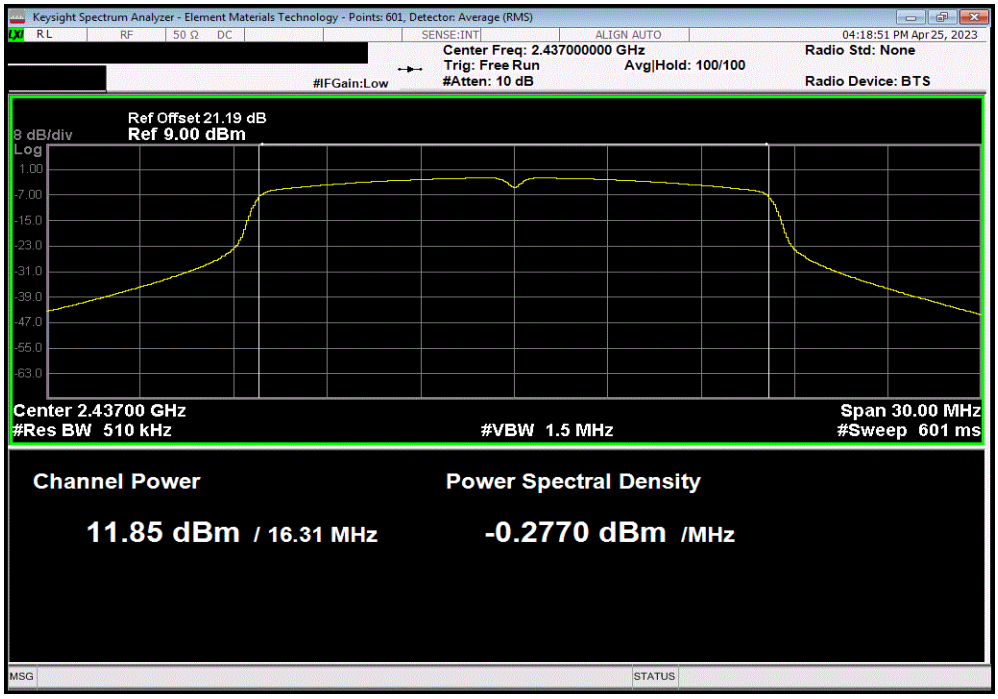


OUTPUT POWER

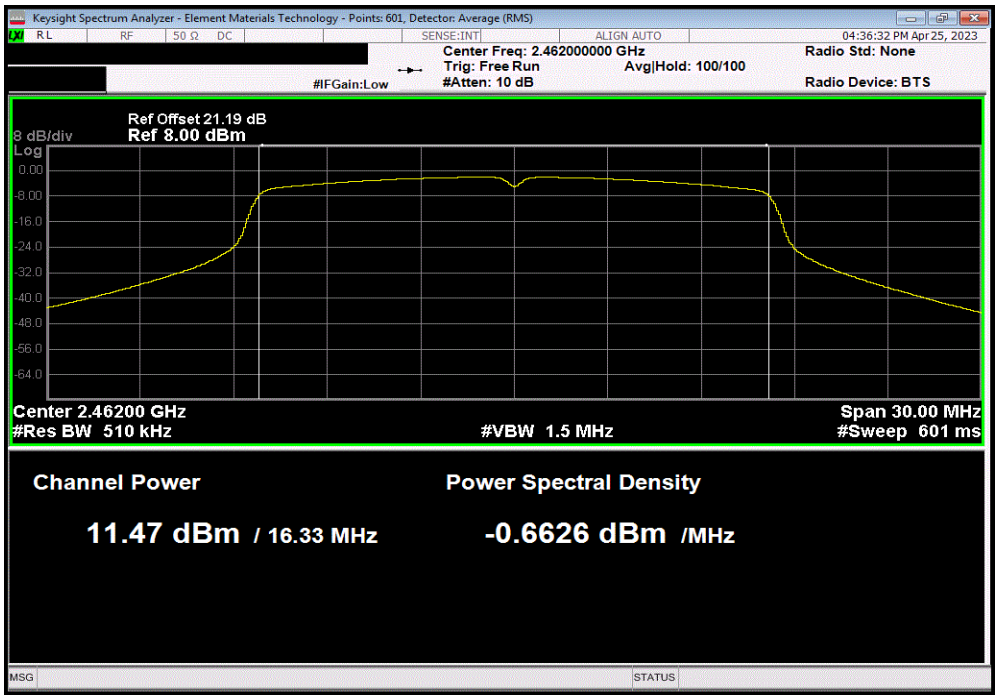
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		12.048	0.2	12.2	30	Pass



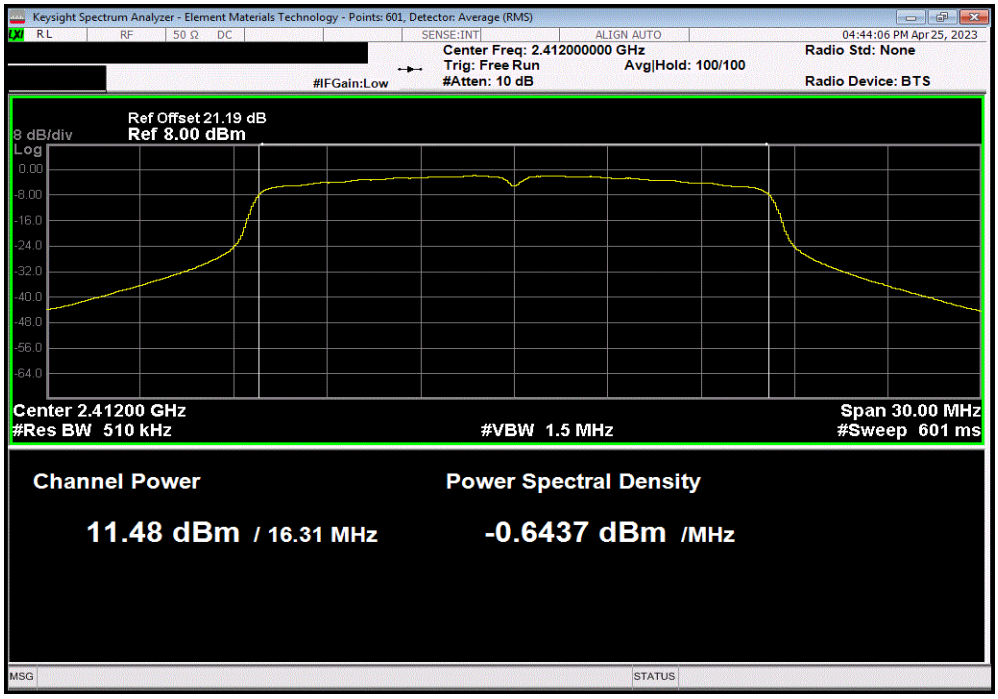
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		11.848	0.2	12	30	Pass



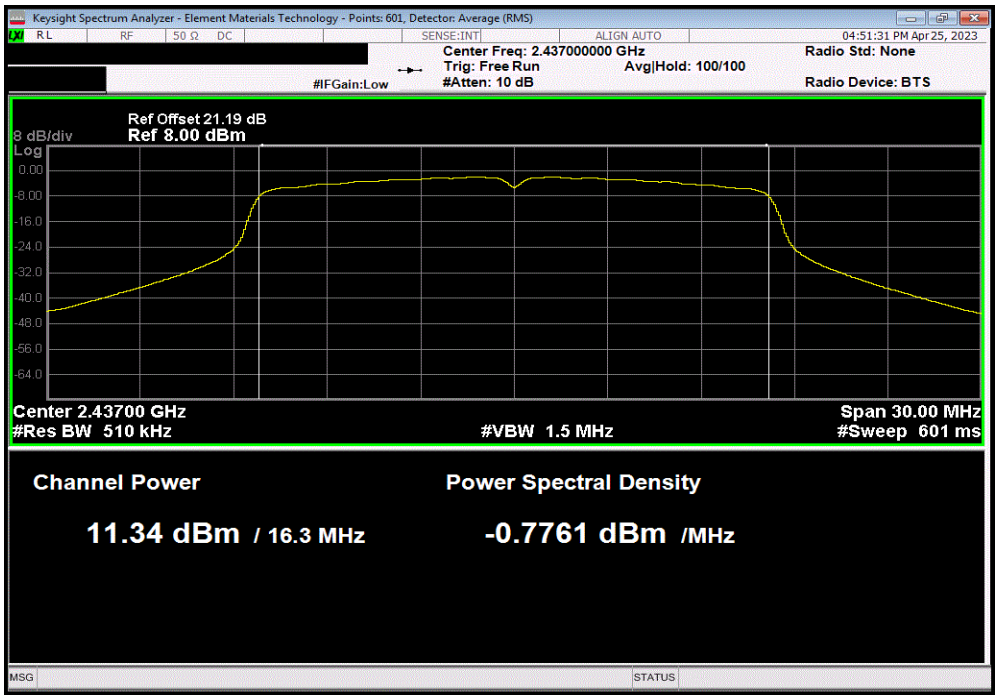
2400 MHz - 2483.5 MHz Band, 802.11(g) 6 Mbps, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		11.468	0.2	11.7	30	Pass



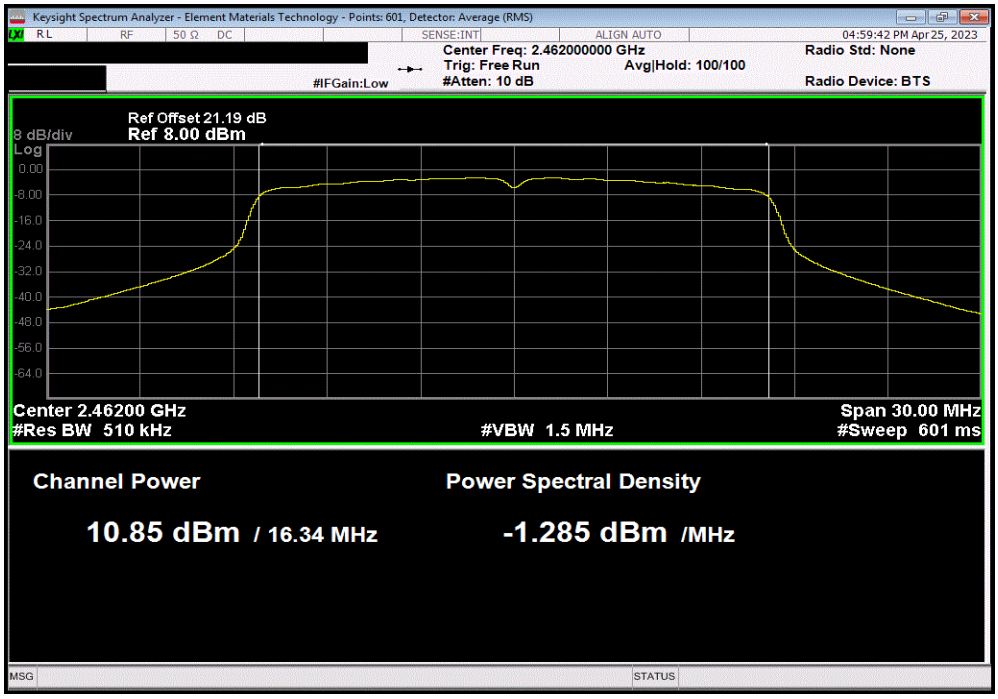
2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		11.482	0.7	12.2	30	Pass



2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		11.345	0.7	12	30	Pass

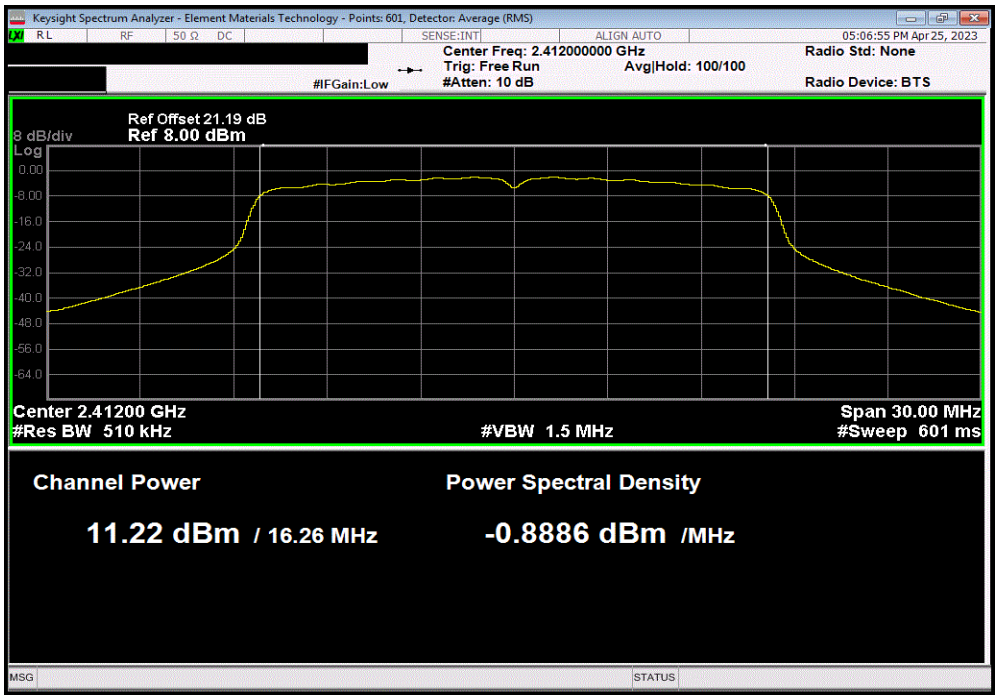


2400 MHz - 2483.5 MHz Band, 802.11(g) 36 Mbps, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		10.847	0.7	11.5	30	Pass

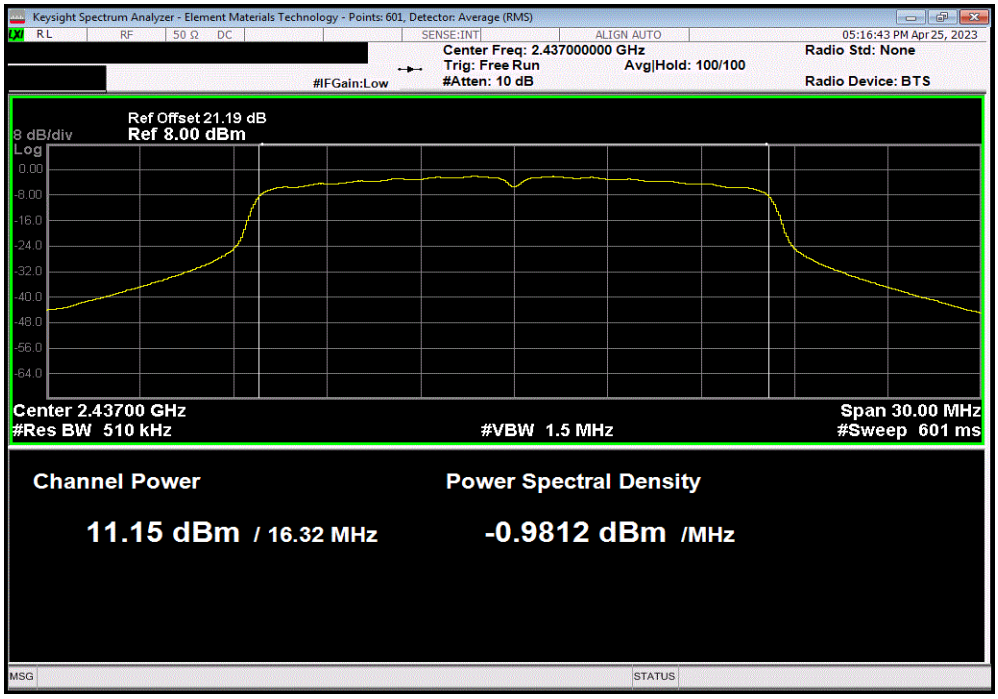


OUTPUT POWER

2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		11.223	1	12.2	30	Pass

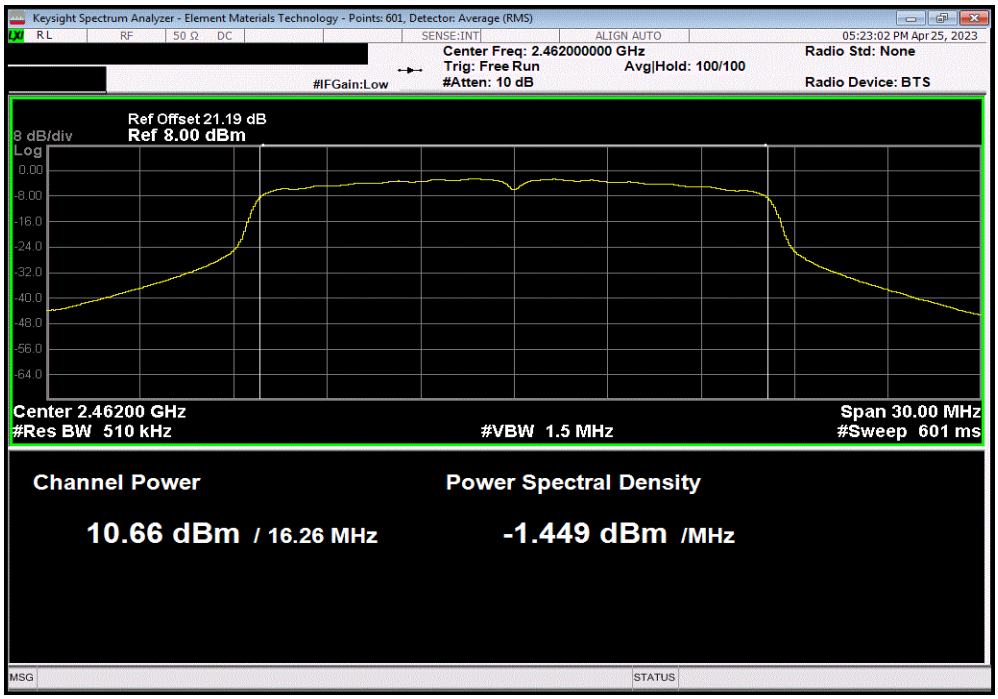


2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		11.146	0.9	12	30	Pass

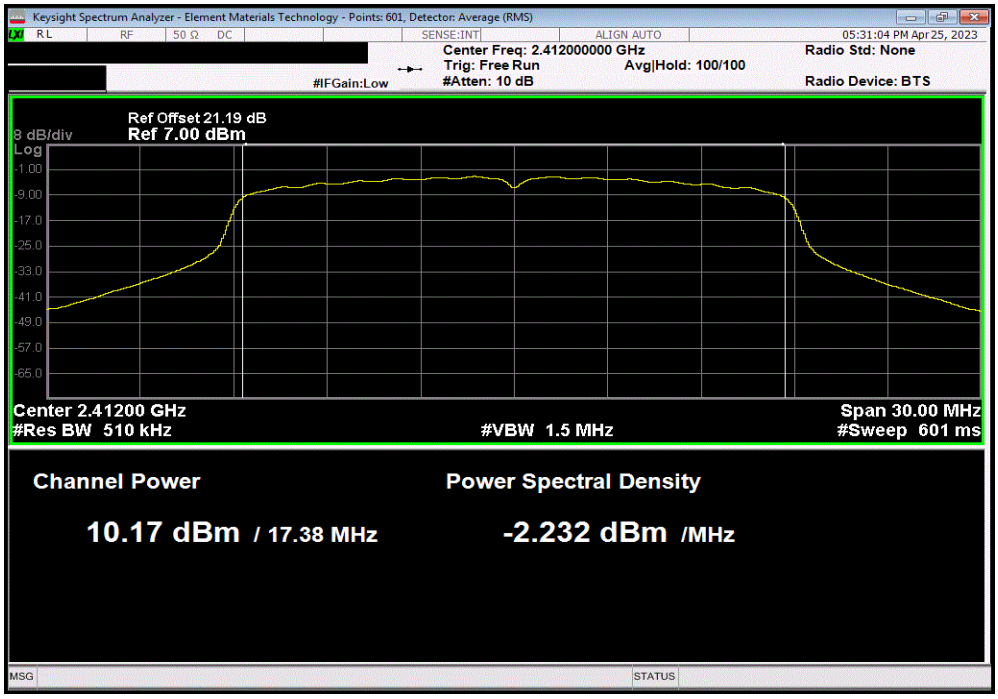


OUTPUT POWER

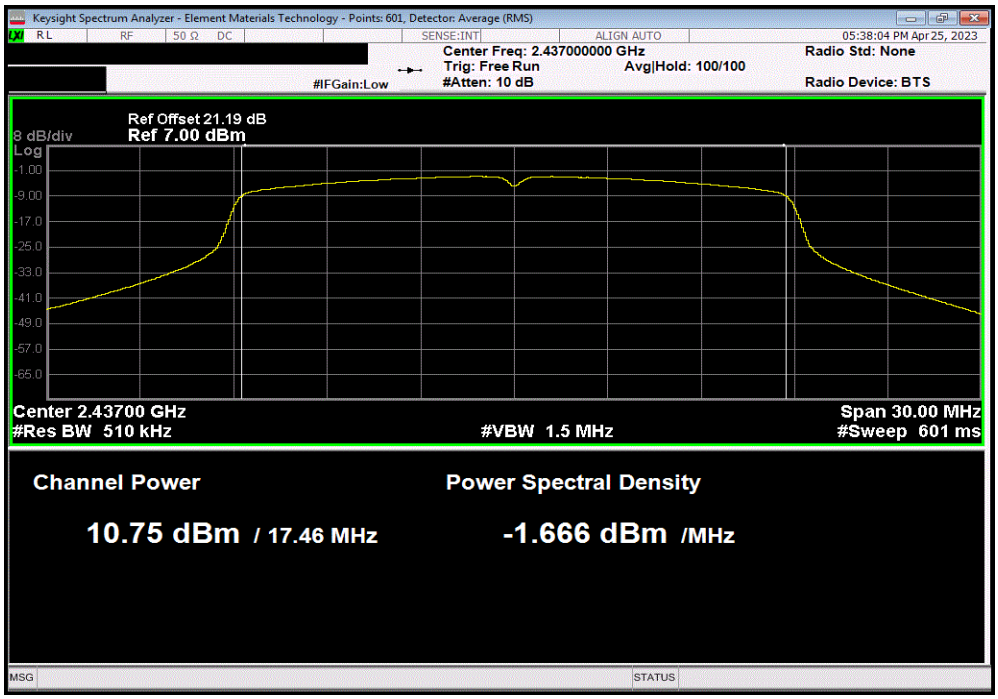
2400 MHz - 2483.5 MHz Band, 802.11(g) 54 Mbps, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		10.661	0.9	11.6	30	Pass



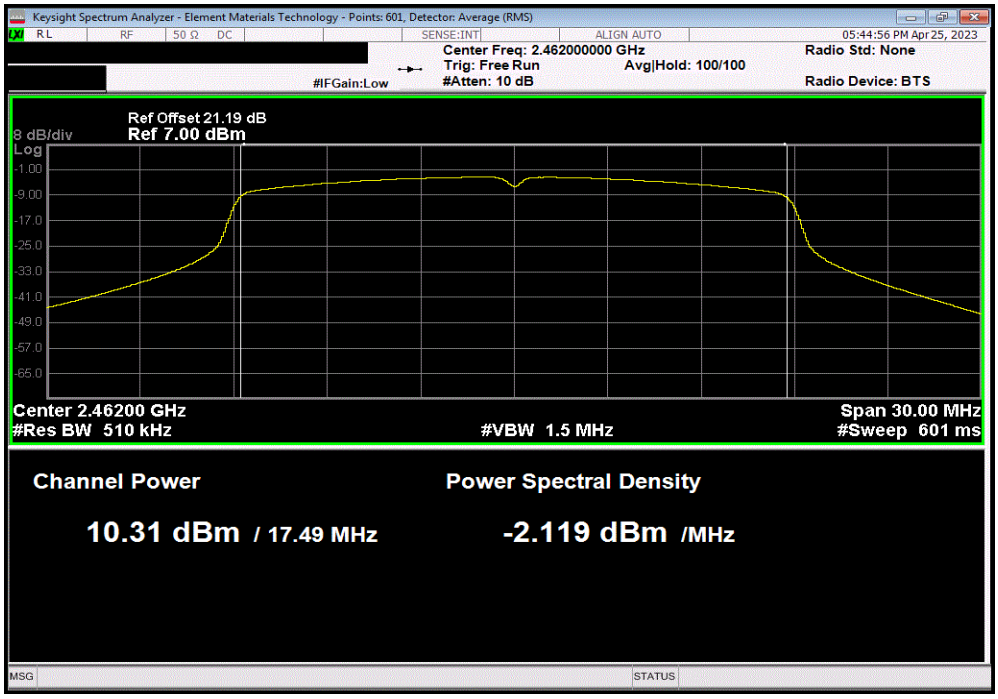
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		10.17	0.9	11.1	30	Pass



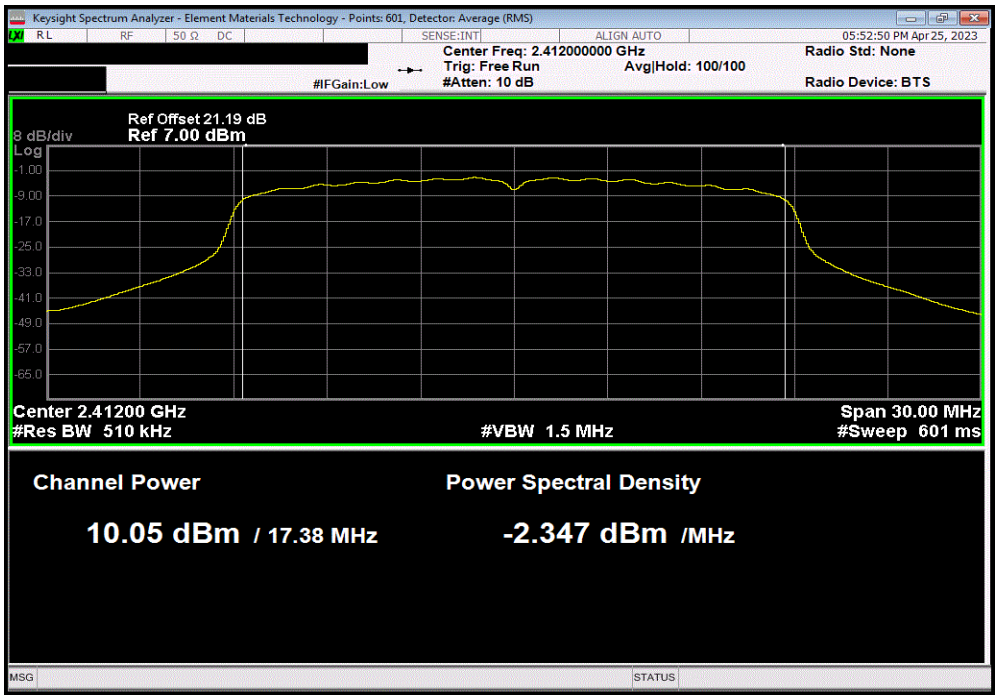
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		10.754	0.2	11	30	Pass



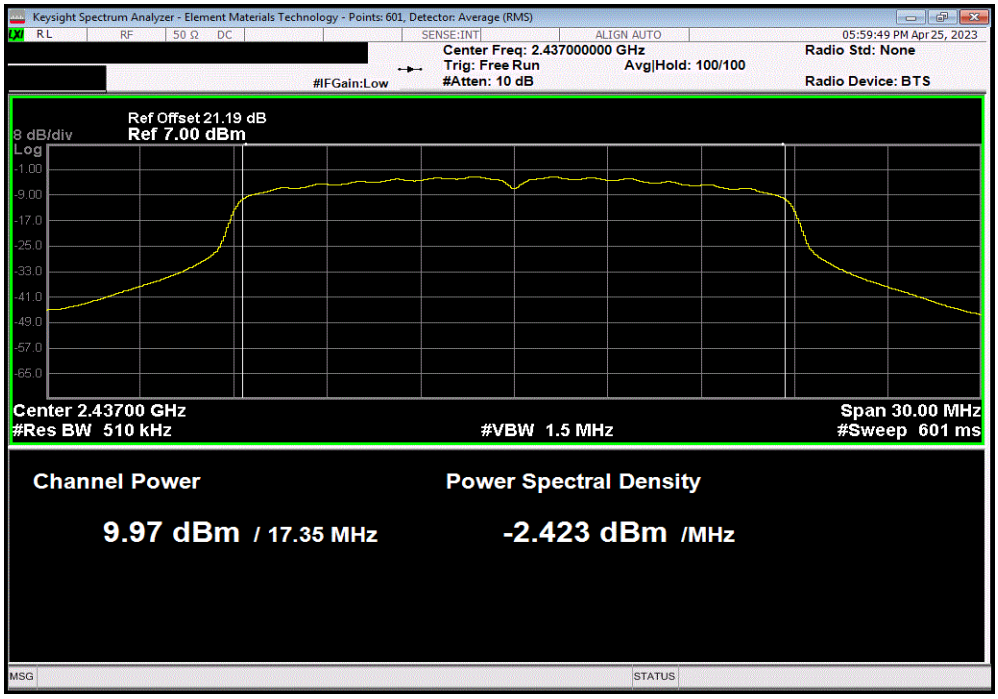
2400 MHz - 2483.5 MHz Band, 802.11(n) MCS0, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		10.31	0.2	10.5	30	Pass



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Low Channel 1, 2412 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		10.053	1	11.1	30	Pass



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, Mid Channel 6, 2437 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		9.97	1	11	30	Pass



2400 MHz - 2483.5 MHz Band, 802.11(n) MCS7, High Channel 11, 2462 MHz						
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result
		9.426	1	10.4	30	Pass