

MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND



XMIT 2020.12.30.0

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
Generator - Signal	Keysight	N5182B	TFU	2020-11-20	2022-11-20
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

TEST DESCRIPTION

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

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

Prior to measuring maximum transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The maximum conducted output power was measured using ANSI C63.10:2013, Clause 12.3.2.4, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

The spectrum analyzer settings were set per the guidance as well as the following specifics:

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

A duty cycle correction factor was added to the measurement using the results of the formula of $10 \cdot \text{LOG}(1/D)$ where D is the duty cycle.

MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND



TelTx 2021.10.29.2 XMt 2020.12.30.0

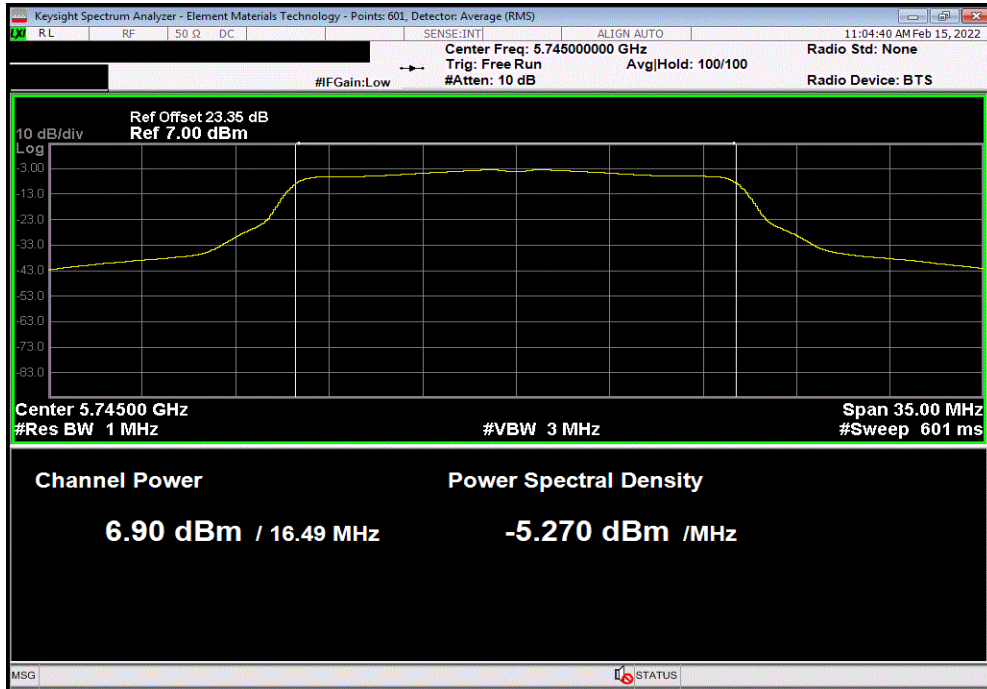
EUT: A-dec Gateway		Work Order: A-DE0169	
Serial Number: 521A000118		Date: 17-Feb-22	
Customer: A-dec, Inc.		Temperature: 20.2 °C	
Attendees: None		Humidity: 41.1% RH	
Project: None		Barometric Pres.: 1036 mbar	
Tested by: Jeff Alcoke		Power: 24 VDC via 110VAC/60Hz	
		Job Site: EV06	
TEST SPECIFICATIONS			
FCC 15.407:2022		ANSI C63.10:2013	
TEST METHOD			
COMMENTS			
Reference level offset includes: DC Block, 20 dB attenuator, and measurement cable			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature	
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)
		Out Pwr (dBm)	Limit (dBm)
			Result
20 MHz			
802.11(a) 6 Mbps			
Ch 149, Low Channel 5745 MHz		6.902	0
Ch 157, Mid Channel 5785 MHz		6.314	0
Ch 165, High Channel 5825 MHz		7.284	0
802.11(a) 36 Mbps			
Ch 149, Low Channel 5745 MHz		7.303	0.2
Ch 157, Mid Channel 5785 MHz		6.957	0.2
Ch 165, High Channel 5825 MHz		7.056	0.2
802.11(a) 54 Mbps			
Ch 149, Low Channel 5745 MHz		7.196	0.3
Ch 157, Mid Channel 5785 MHz		6.877	0.3
Ch 165, High Channel 5825 MHz		6.103	0.3
802.11(n) MCS0			
Ch 149, Low Channel 5745 MHz		7.27	0
Ch 157, Mid Channel 5785 MHz		6.924	0
Ch 165, High Channel 5825 MHz		6.924	0
802.11(n) MCS7			
Ch 149, Low Channel 5745 MHz		7.017	0.4
Ch 157, Mid Channel 5785 MHz		6.657	0.4
Ch 165, High Channel 5825 MHz		6.714	0.4
802.11(ac) MCS8 (256-QAM)			
Ch 149, Low Channel 5745 MHz		6.975	0.4
Ch 157, Mid Channel 5785 MHz		6.639	0.4
Ch 165, High Channel 5825 MHz		6.649	0.4
40 MHz			
802.11(n) MCS0			
Ch 149/153, Low Channel 5755 MHz		7.035	0.1
Ch 157/161, High Channel 5795 MHz		6.675	0.1
802.11(n) MCS7			
Ch 149/153, Low Channel 5755 MHz		6.357	0.6
Ch 157/161, High Channel 5795 MHz		6.208	0.6
802.11(ac) MCS9 (256-QAM)			
Ch 149/153, Low Channel 5755 MHz		7.423	0.7
Ch 157/161, High Channel 5795 MHz		6.896	0.7
80 MHz			
802.11(ac) MCS0			
Ch 149-161, Low Channel 5775 MHz		5.986	0.2
802.11(ac) MCS9 (256-QAM)			
Ch 149-161, Low Channel 5775 MHz		4.148	1

MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

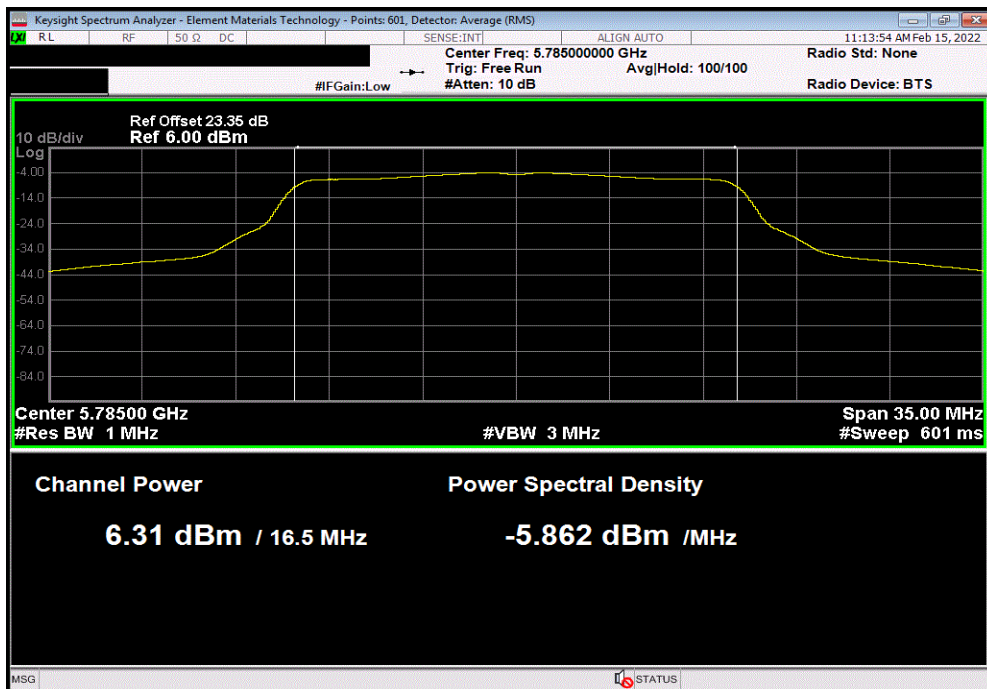


TuTx 2021.10.29.2 XMI 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.902	0	6.9	30	Pass		



20 MHz, 802.11(a) 6 Mbps, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.314	0	6.3	30	Pass		

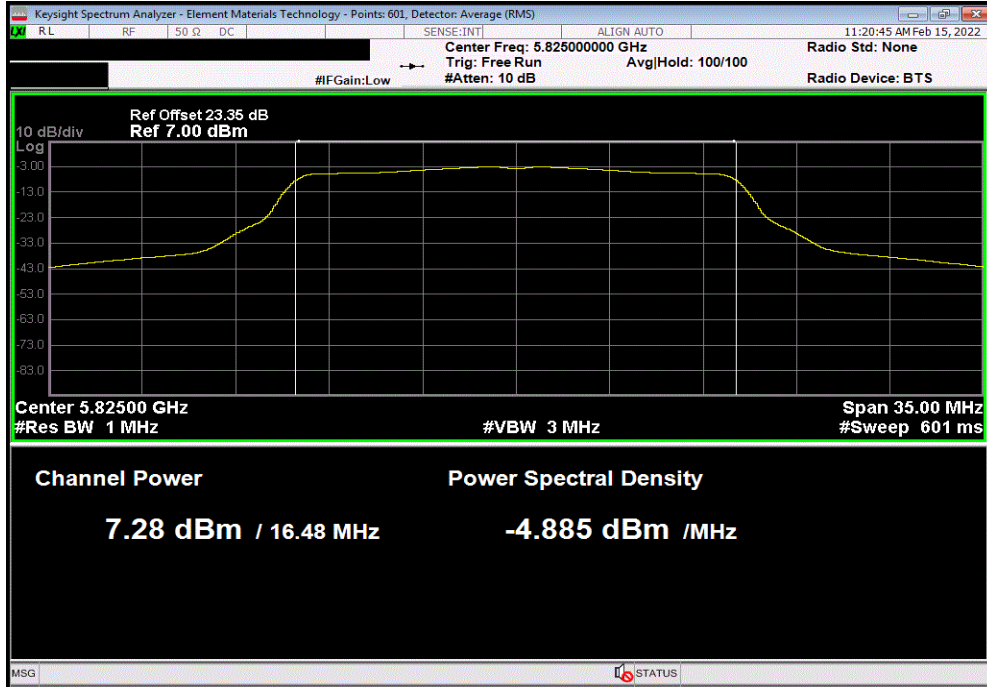


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

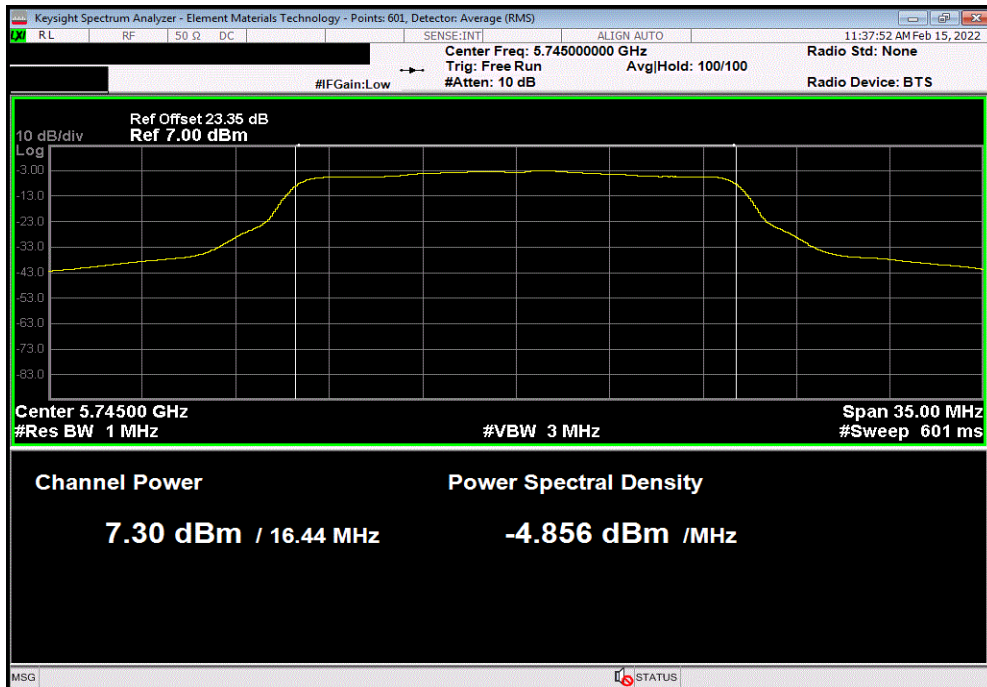


TuTx 2021.10.29.2 XMI 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 165, High Channel 5825 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	7.284	0	7.3	30	Pass	



20 MHz, 802.11(a) 36 Mbps, Ch 149, Low Channel 5745 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	7.303	0.2	7.5	30	Pass	

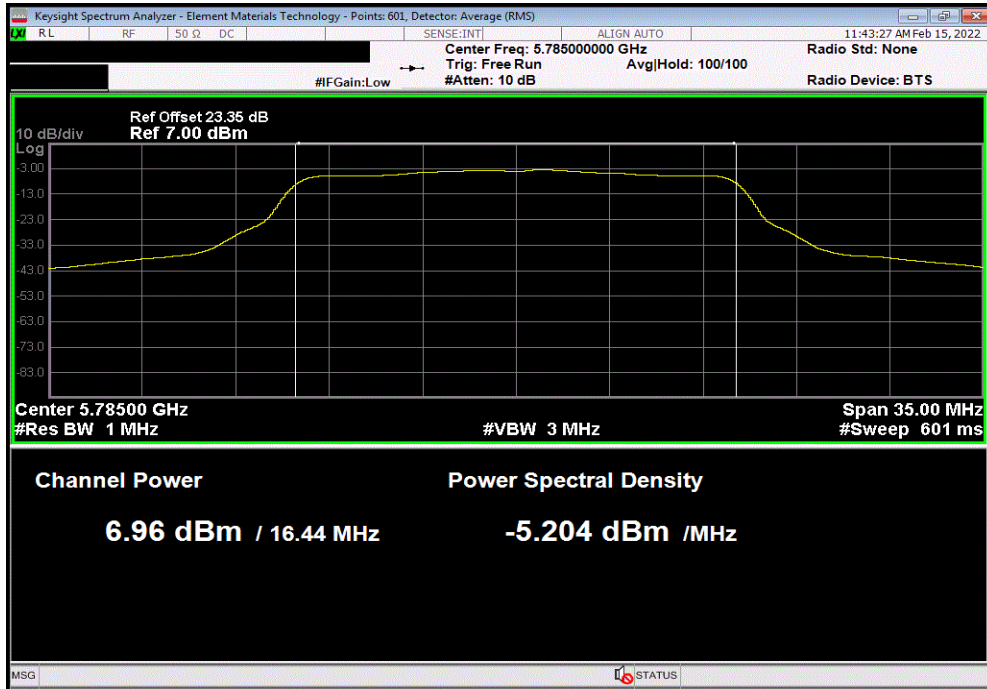


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

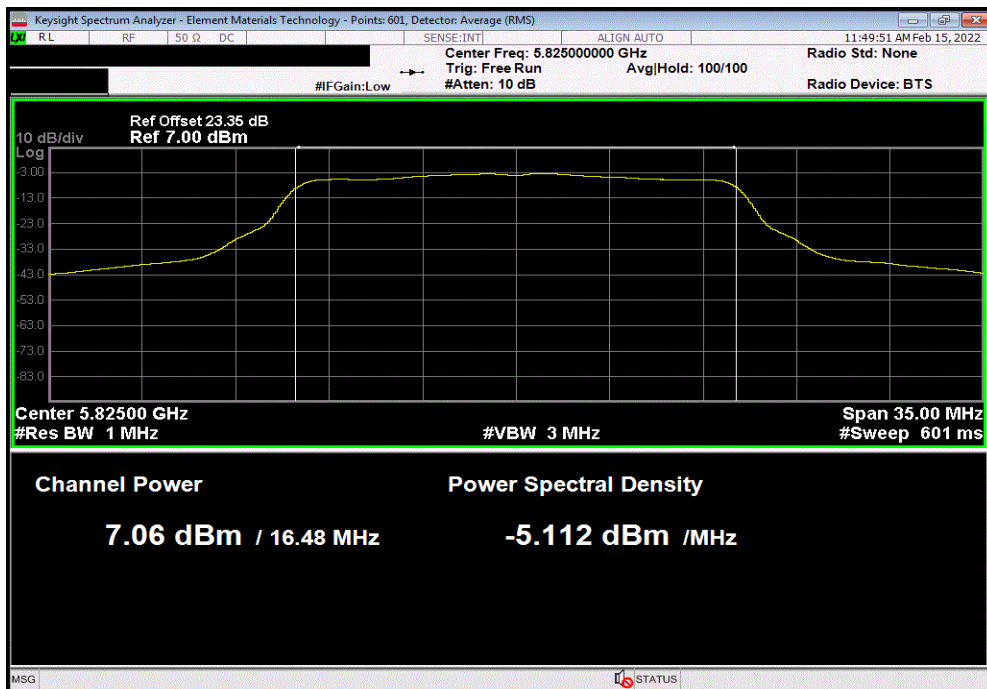


TuTx 2021.10.29.2 XMI 2020.12.30.0

20 MHz, 802.11(a) 36 Mbps, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.957	0.2	7.2	30	Pass		



20 MHz, 802.11(a) 36 Mbps, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
7.056	0.2	7.3	30	Pass		

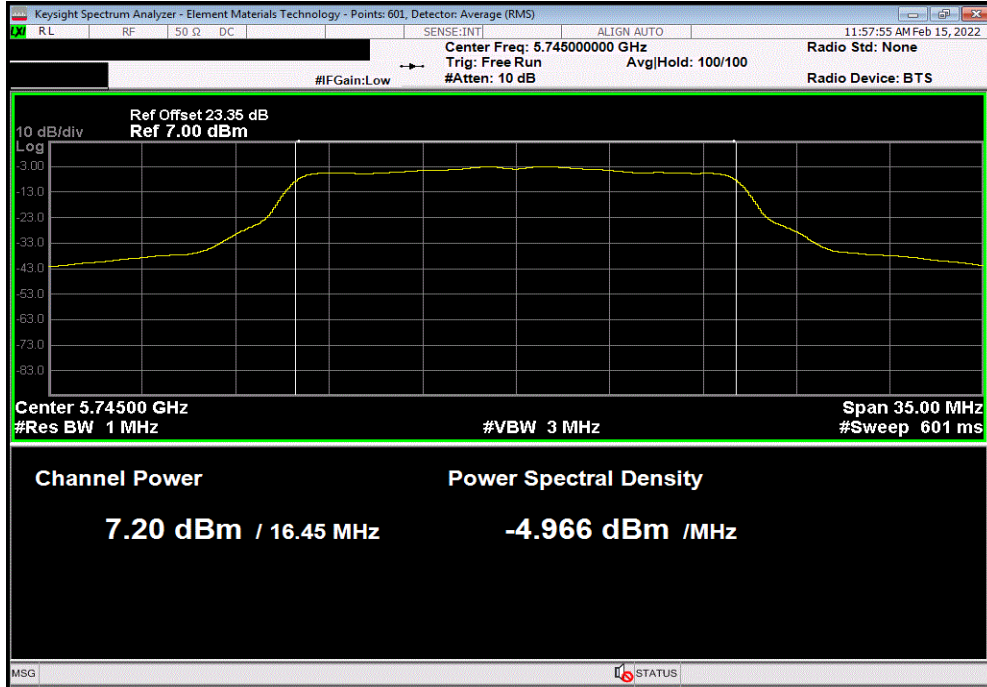


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

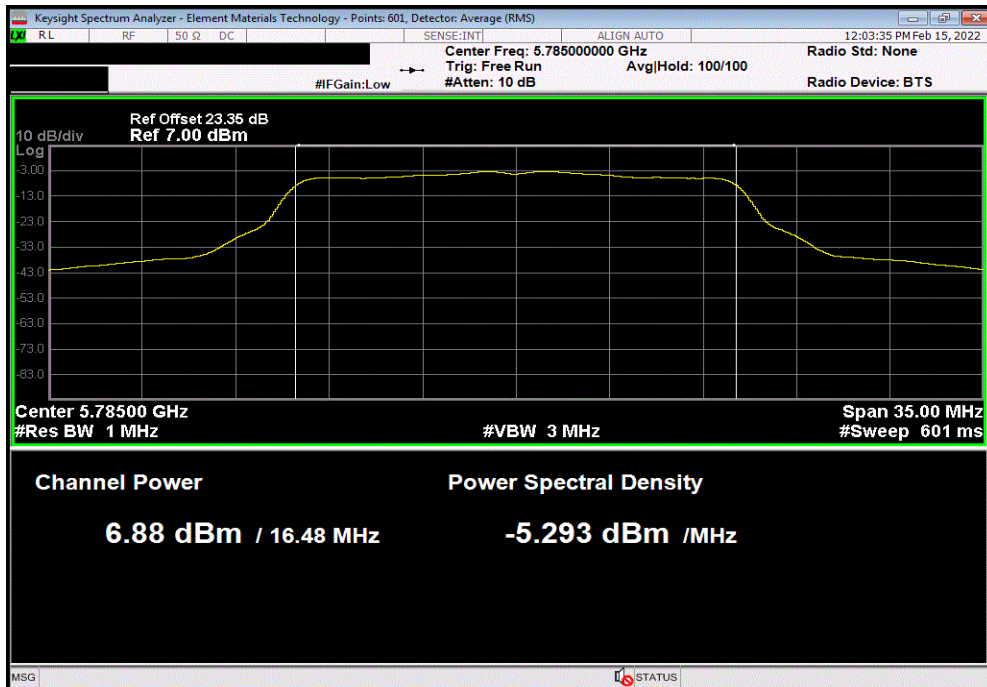


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 149, Low Channel 5745 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	7.196	0.3	7.5	30	Pass	



20 MHz, 802.11(a) 54 Mbps, Ch 157, Mid Channel 5785 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	6.877	0.3	7.2	30	Pass	

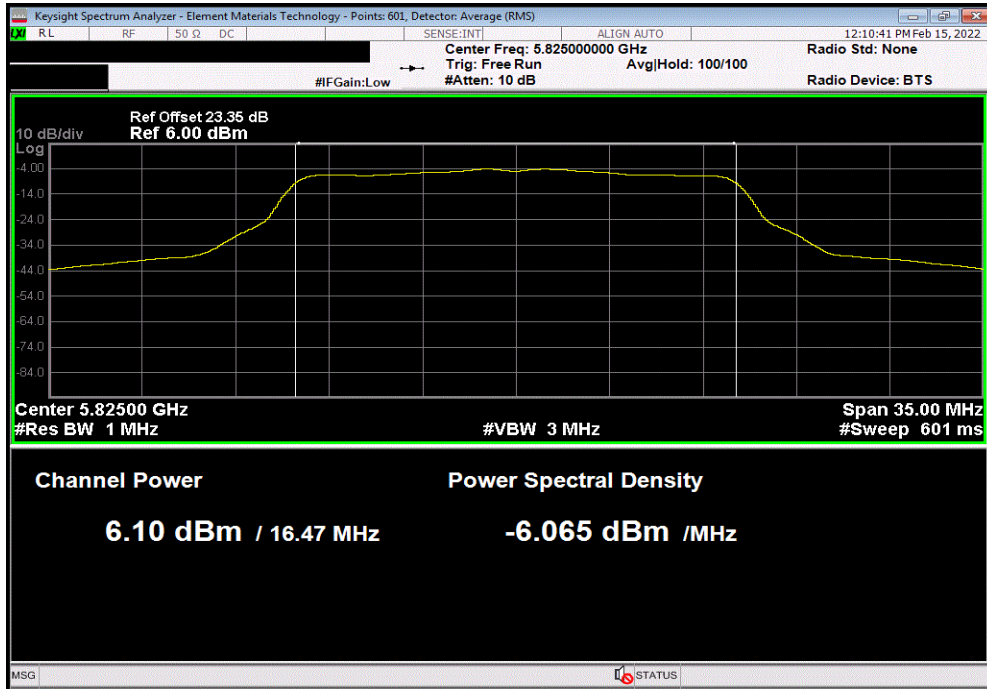


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

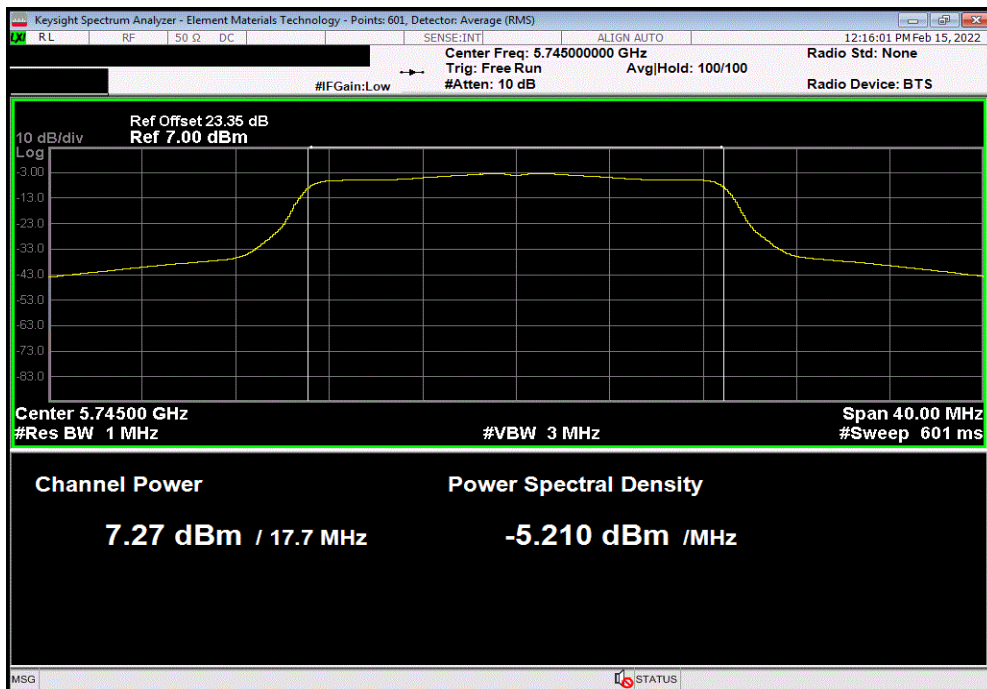


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.103	0.3	6.4	30	Pass		



20 MHz, 802.11(n) MCS0, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
7.27	0	7.3	30	Pass		

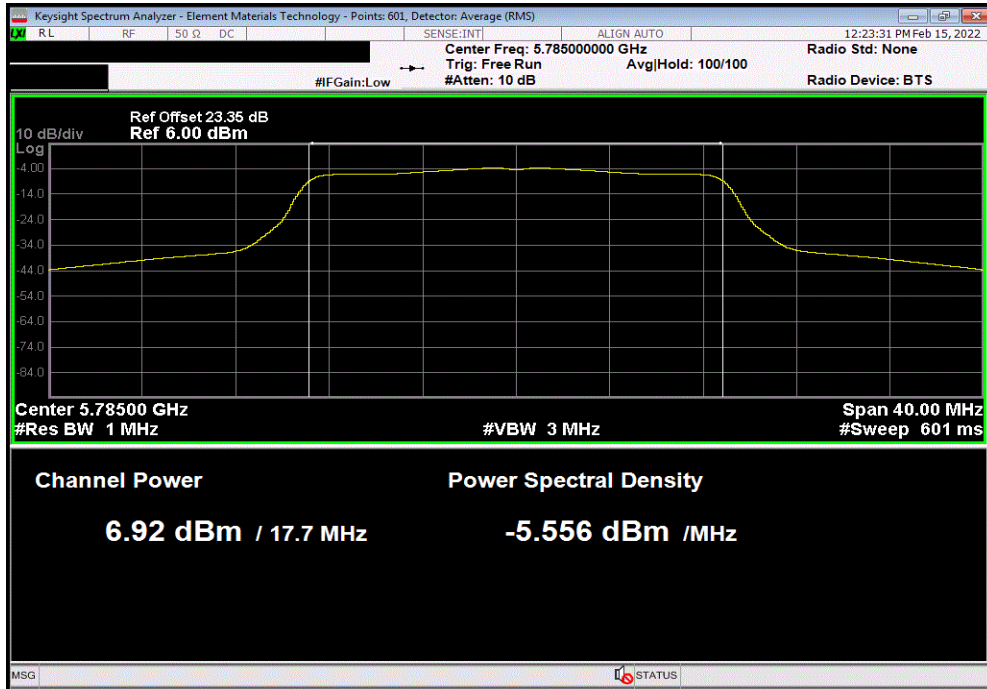


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

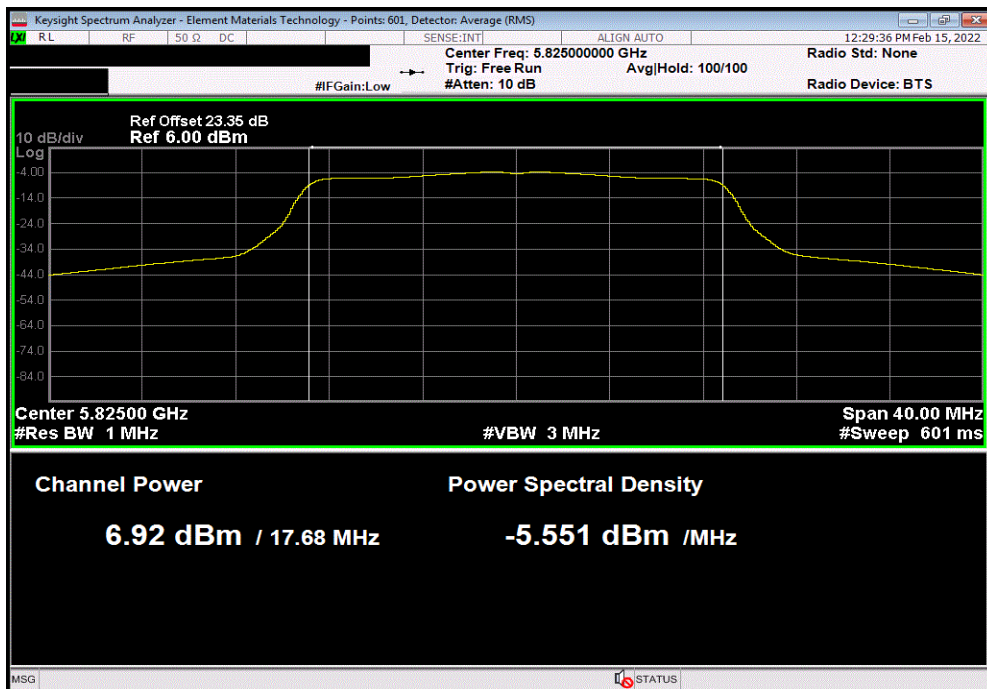


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(n) MCS0, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.924	0	6.9	30	Pass		



20 MHz, 802.11(n) MCS0, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.924	0	6.9	30	Pass		

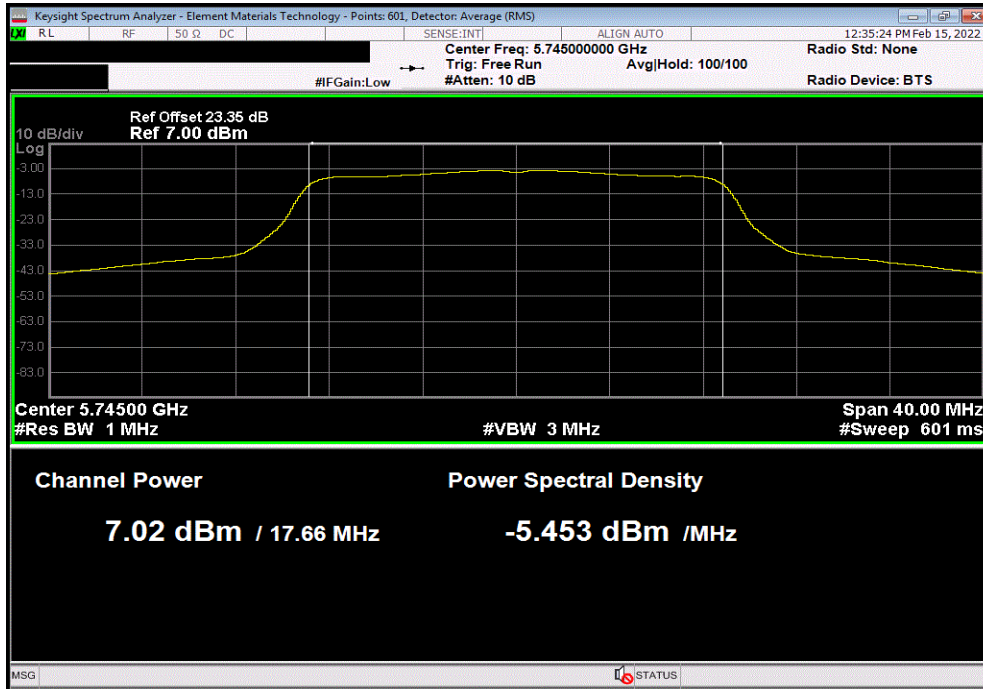


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

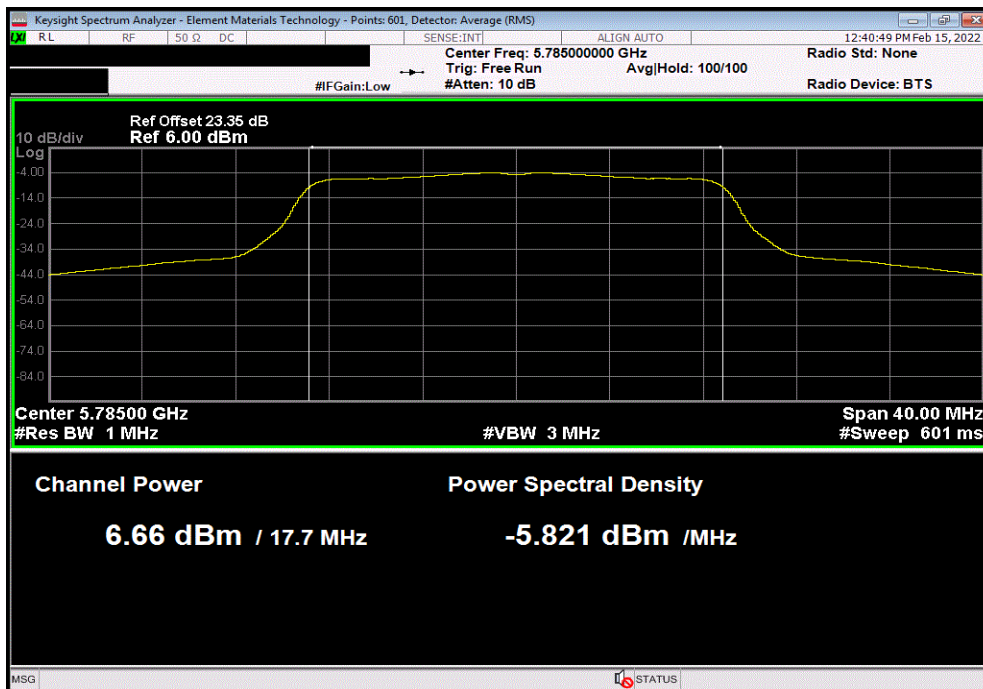


TbTx 2021.10.29.2 XMI 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
7.017	0.4	7.4	30	Pass		



20 MHz, 802.11(n) MCS7, Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.657	0.4	7.1	30	Pass		

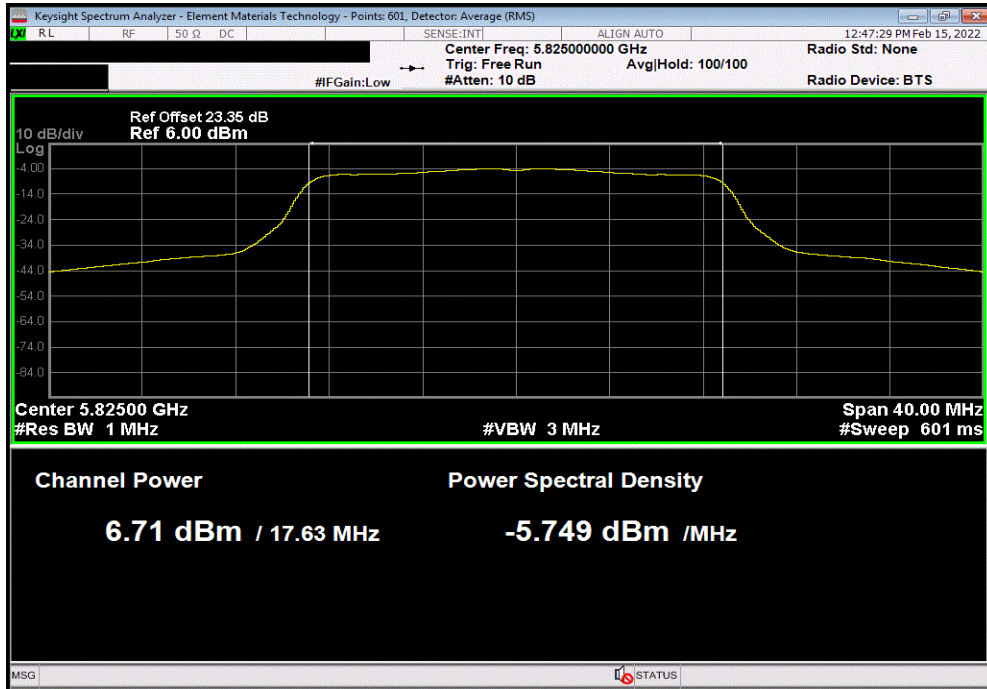


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

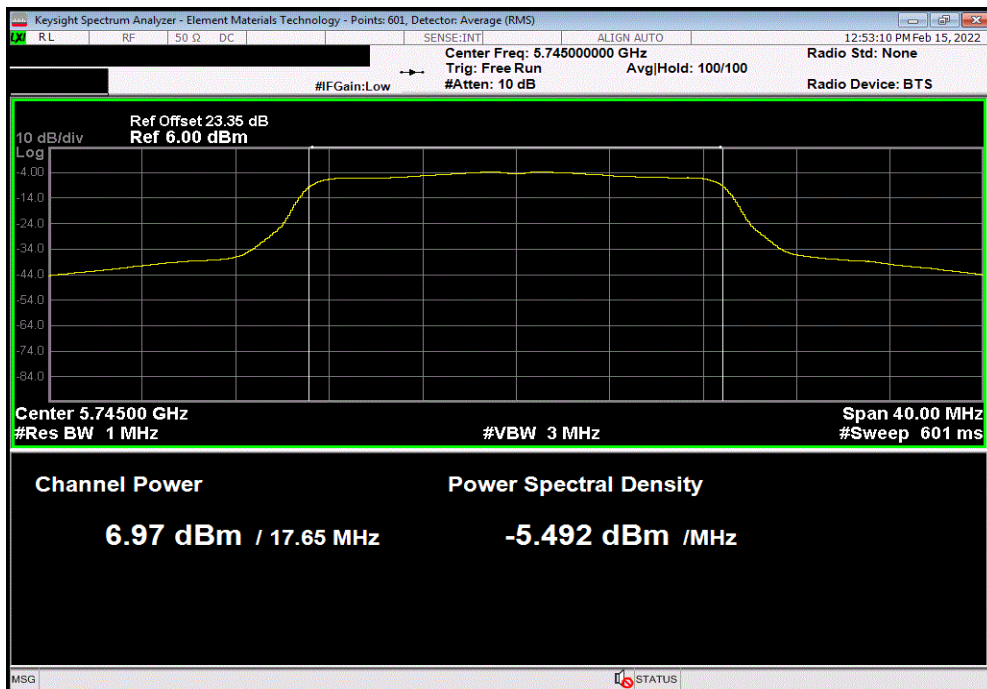


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.714	0.4	7.1	30	Pass		



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 149, Low Channel 5745 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.975	0.4	7.4	30	Pass		

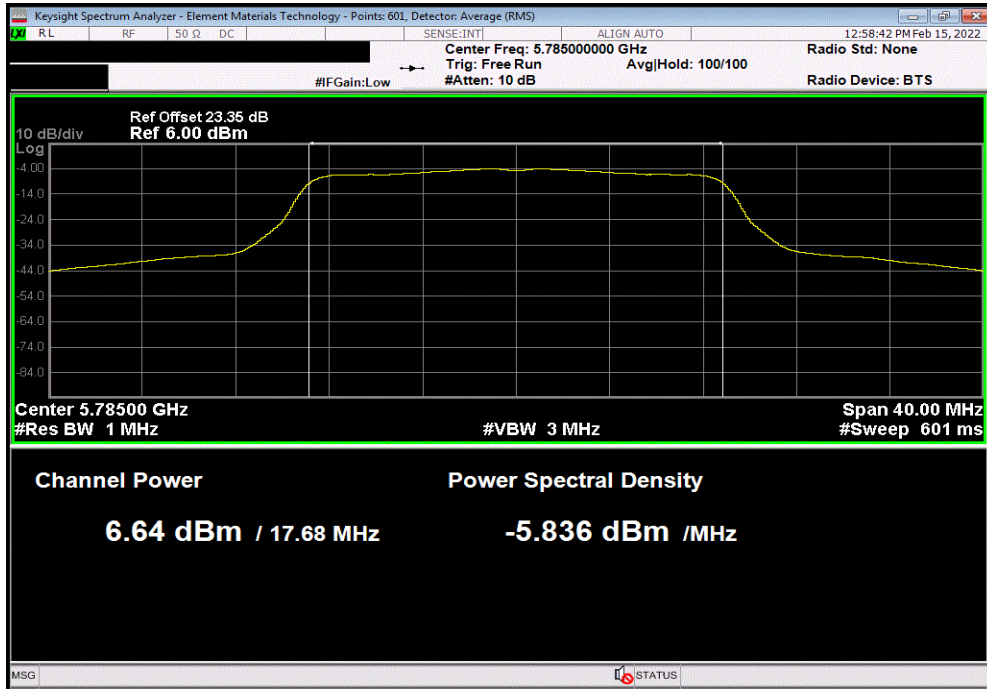


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

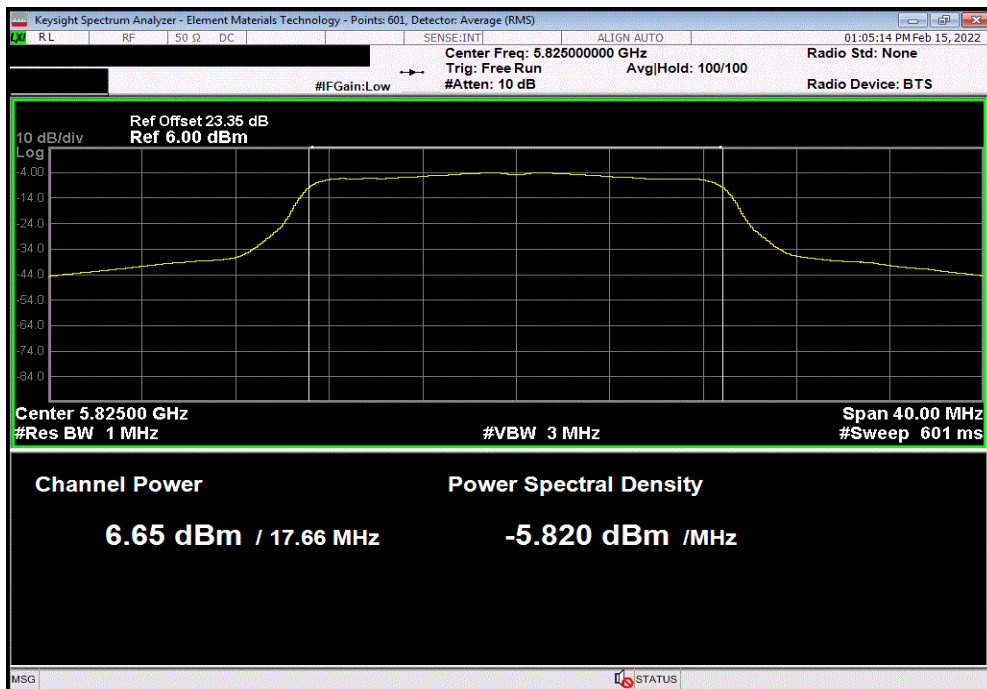


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 157, Mid Channel 5785 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.639	0.4	7	30	Pass		



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 165, High Channel 5825 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.649	0.4	7	30	Pass		

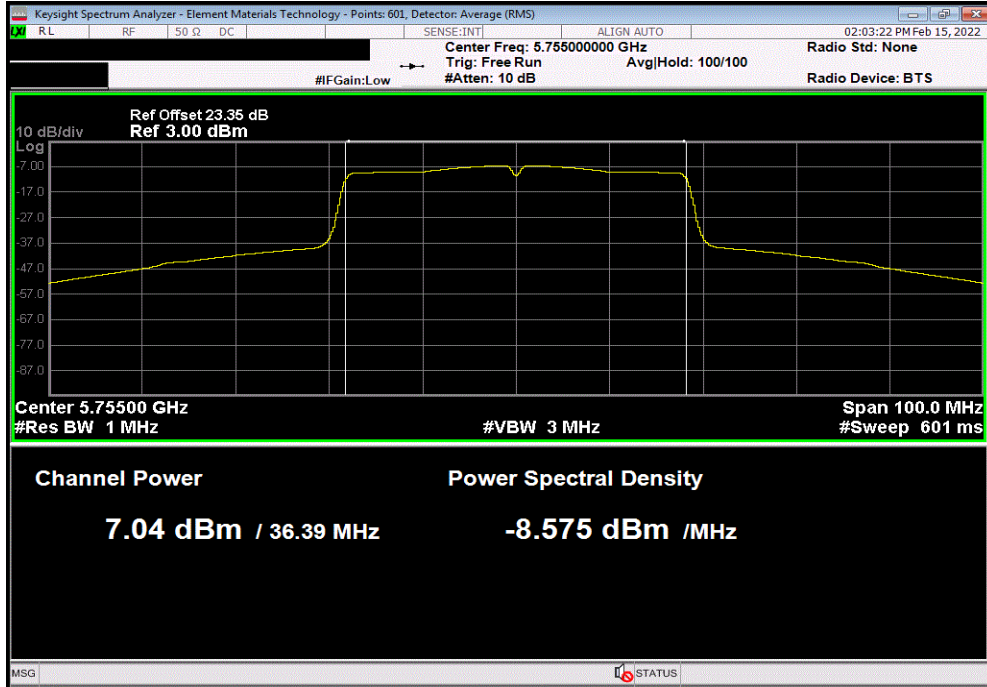


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

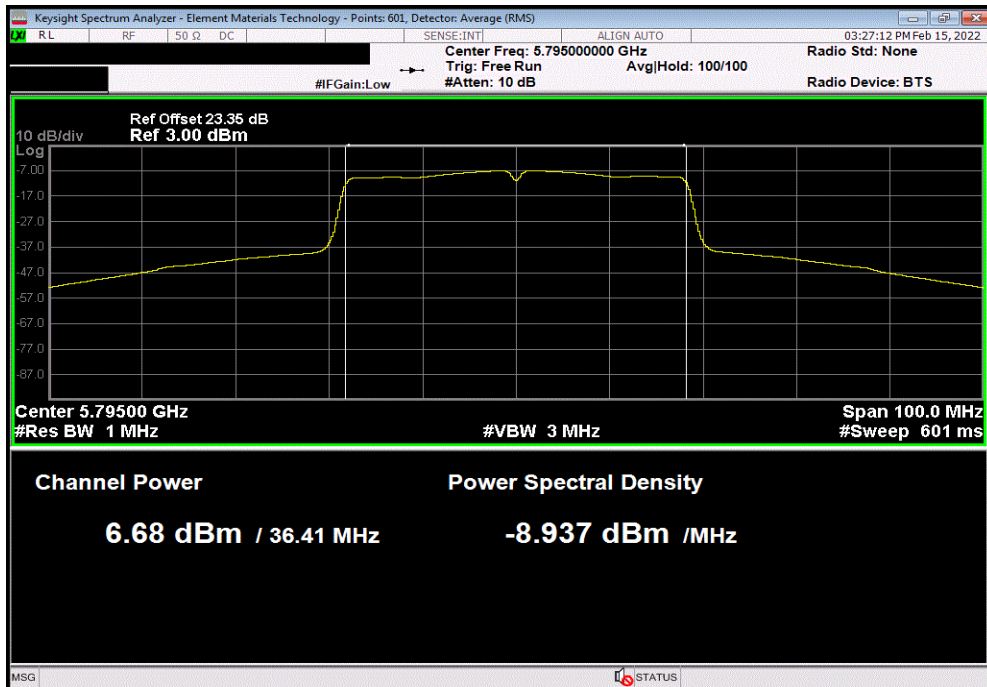


TuTx 2021.10.29.2 XMI 2020.12.30.0

40 MHz, 802.11(n) MCS0, Ch 149/153, Low Channel 5755 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
7.035	0.1	7.1	30	Pass		



40 MHz, 802.11(n) MCS0, Ch 157/161, High Channel 5795 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.675	0.1	6.8	30	Pass		

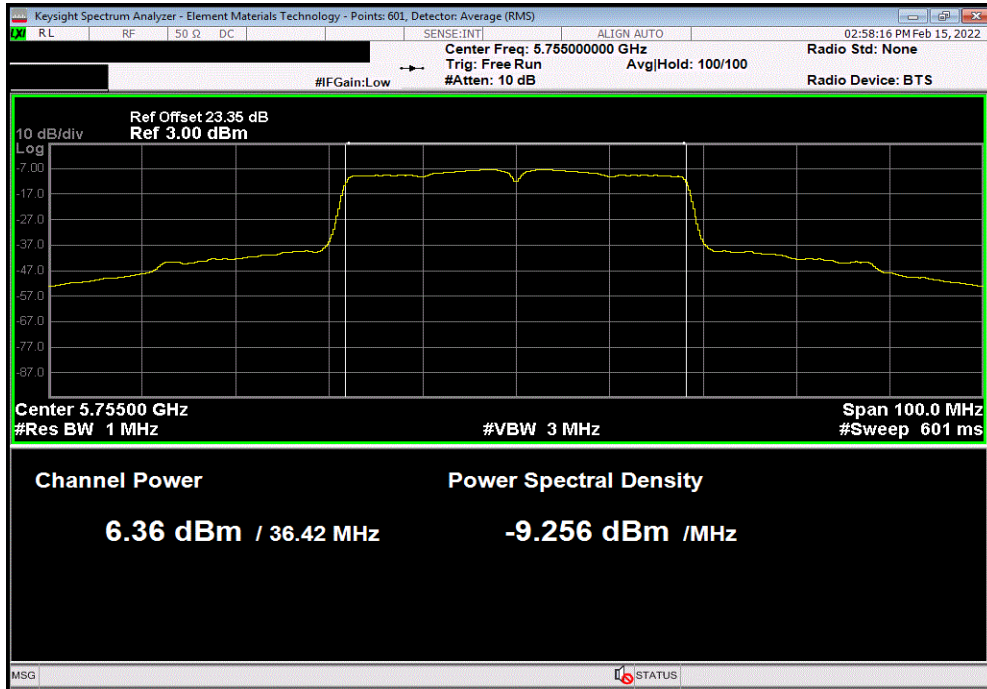


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

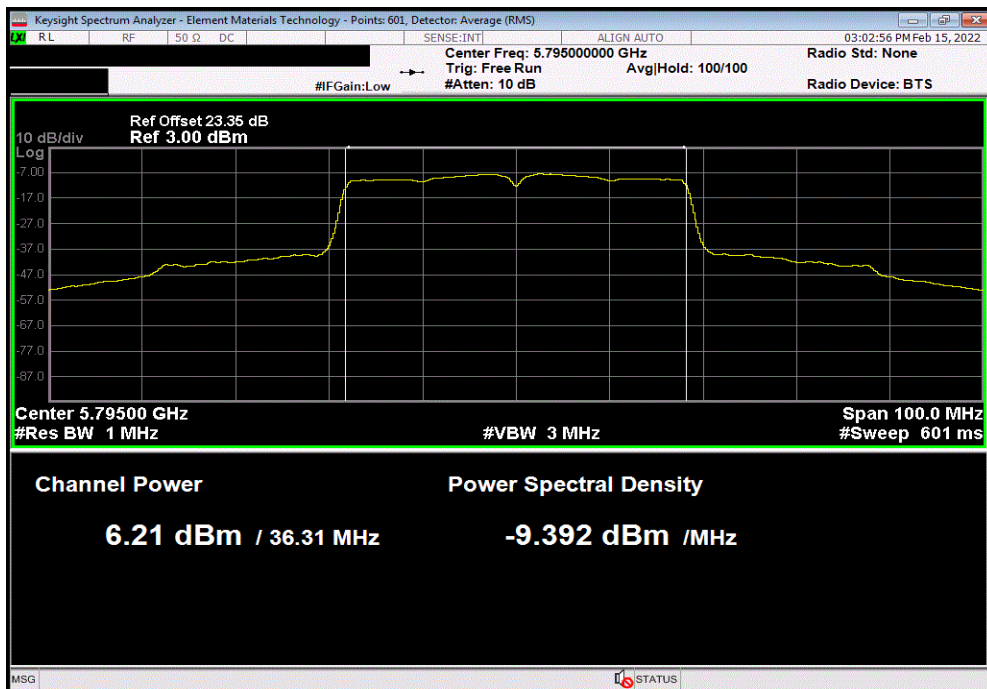


TuTx 2021.10.29.2 XMI 2020.12.30.0

40 MHz, 802.11(n) MCS7, Ch 149/153, Low Channel 5755 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.357	0.6	7	30	Pass		



40 MHz, 802.11(n) MCS7, Ch 157/161, High Channel 5795 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
6.208	0.6	6.8	30	Pass		

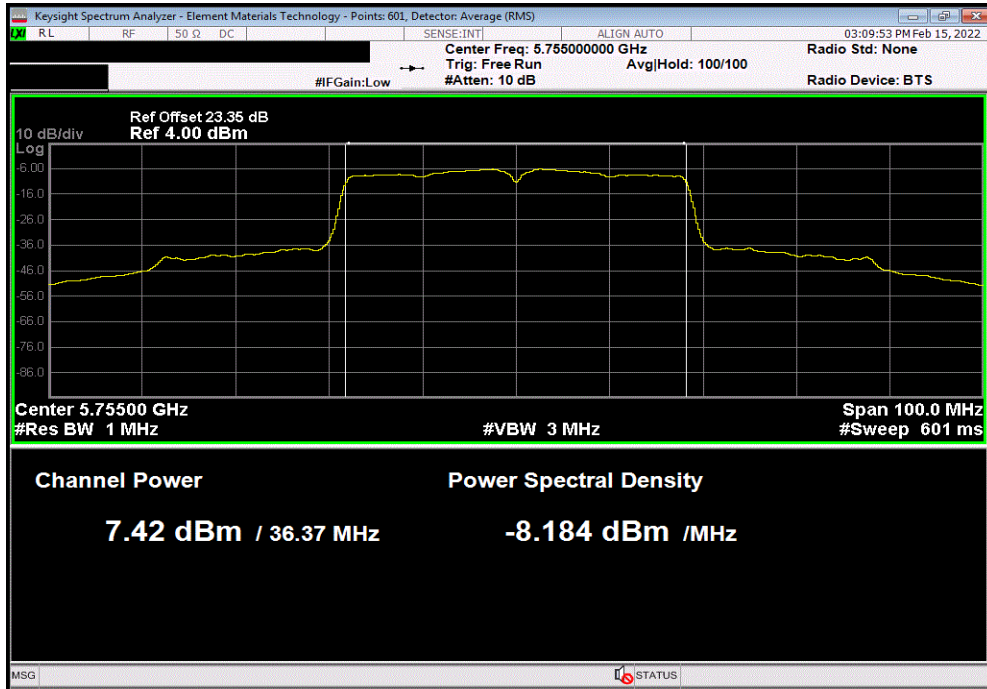


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

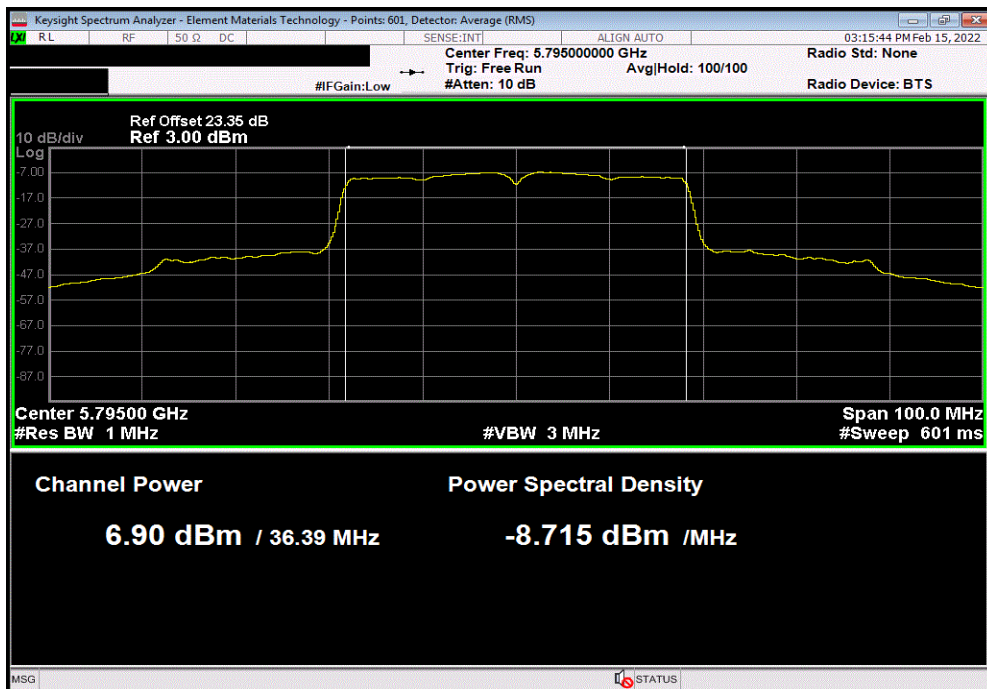


TbTx 2021.10.29.2 XMI 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 149/153, Low Channel 5755 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	7.423	0.7	8.1	30	Pass	



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 157/161, High Channel 5795 MHz						
	Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result	
	6.896	0.7	7.7	30	Pass	

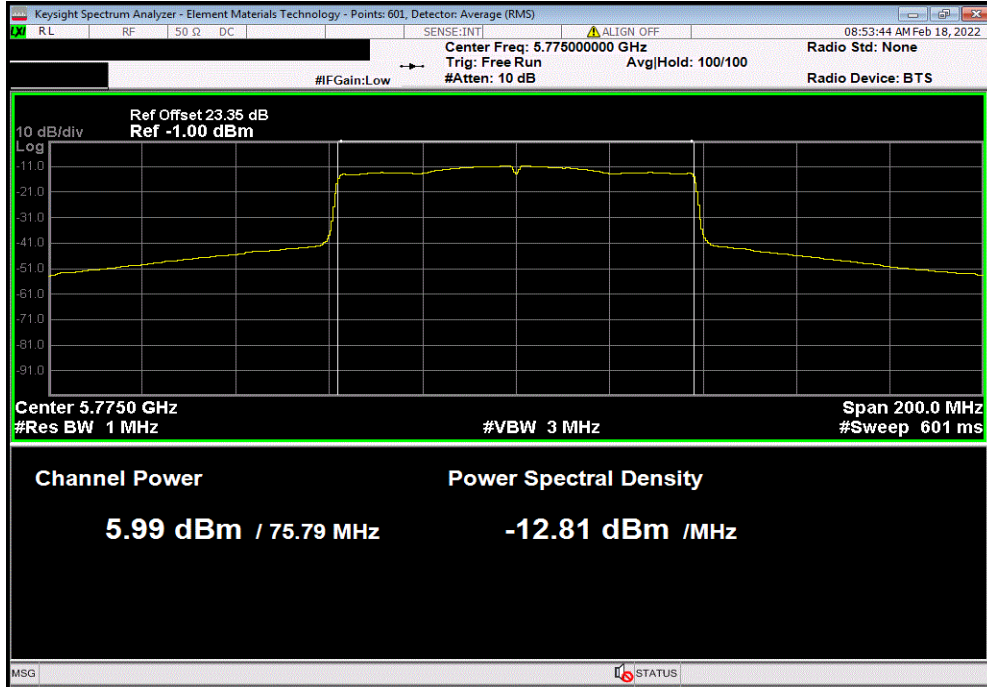


MAXIMUM CONDUCTED OUTPUT POWER - 5.8 GHz BAND

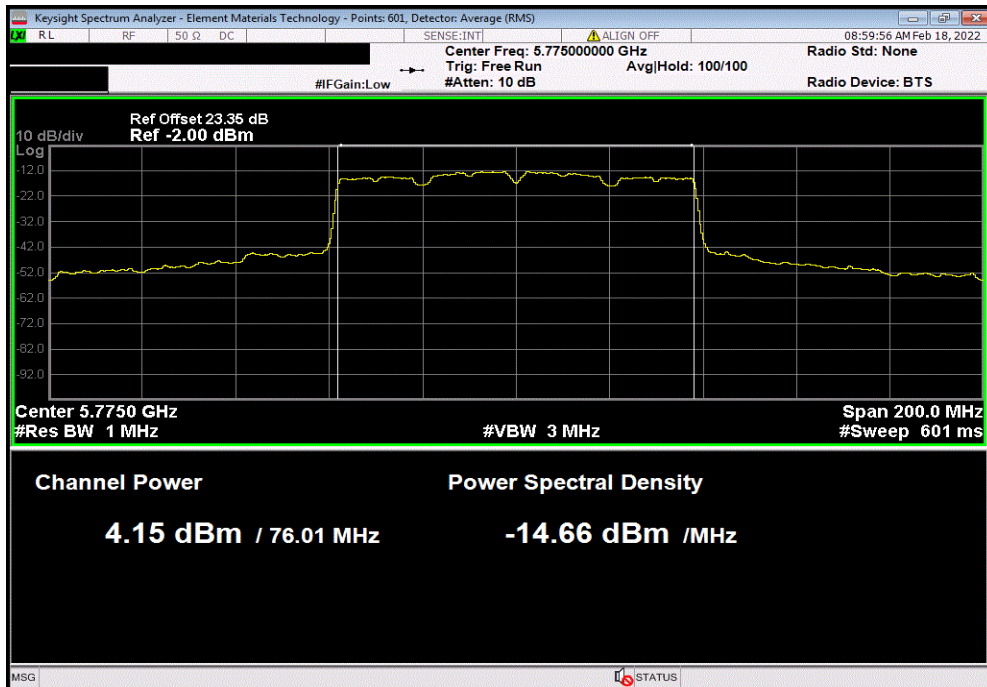


TbTx 2021.10.29.2 XMI 2020.12.30.0

80 MHz, 802.11(ac) MCS0, Ch 149-161, Low Channel 5775 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
5.986	0.2	6.2	30	Pass		



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 149-161, Low Channel 5775 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Limit (dBm)	Result		
4.148	1	5.1	30	Pass		



EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND



XMI 2020.12.30.0

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
Generator - Signal	Agilent	N5181A	TIG	2020-04-16	2023-04-16
Cable	Micro-Coax	UFD150A-1-0720-200200	EVK	2021-03-14	2022-03-14
Attenuator	S.M. Electronics	SA26B-20	AUY	2021-03-14	2022-03-14
Block - DC	Fairview Microwave	SD3379	AMW	2021-03-14	2022-03-14
Analyzer - Spectrum Analyzer	Keysight	N9010A	AFO	2021-07-06	2022-07-06

TEST DESCRIPTION

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

The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The radio was operated in the modes as shown in the following data sheets.

Prior to measuring maximum transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

The maximum conducted output power was measured using ANSI C63.10:2013, Method SA-2 (RMS detection and trace averaging across the on and off times of the EUT transmission and use of a duty cycle correction factor).

The spectrum analyzer settings were set per the guidance as well as the following specifics:

- RMS Detector
- Trace average 100 traces in power averaging mode.
- Power was integrated across "B", by using the channel power function of the analyzer.

A duty cycle correction factor was added to the measurement using the results of the formula of $10 \cdot \text{LOG}(1/D)$ where D is the duty cycle.

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

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND



TelTx 2021.10.29.2 XMt 2020.12.30.0

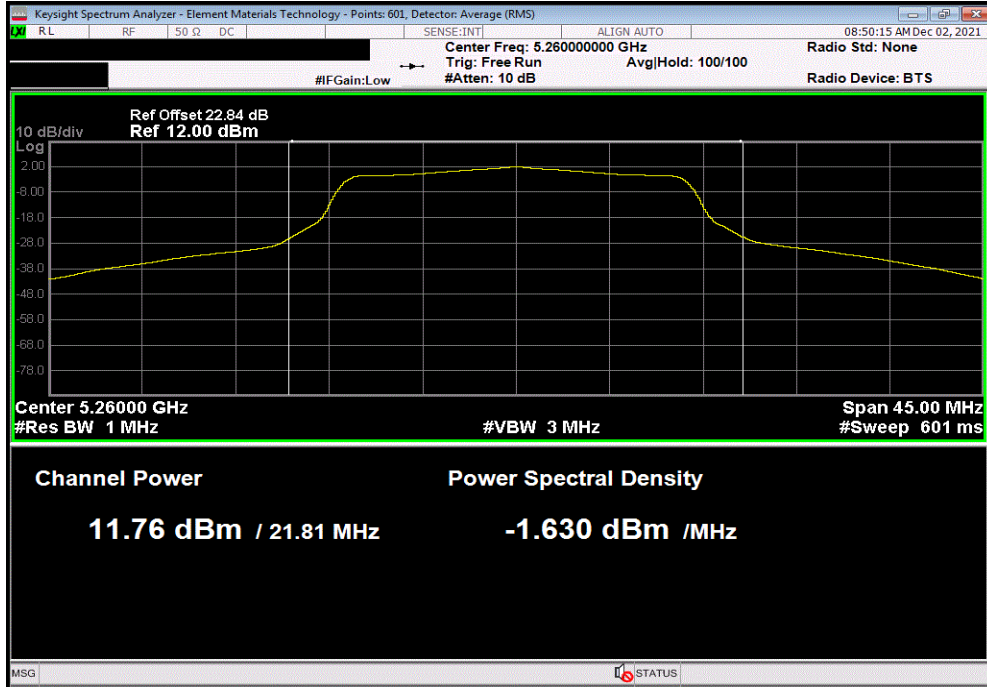
EUT: A-dec Gateway		Work Order: A-DE0169	
Serial Number: 521A000118		Date: 3-Dec-21	
Customer: A-dec, Inc.		Temperature: 20.2 °C	
Attendees: None		Humidity: 39.6% RH	
Project: None		Barometric Pres.: 1028 mbar	
Tested by: Jeff Alcoke		Power: 24 VDC via 110VAC/60Hz	
Job Site: EV06			
TEST SPECIFICATIONS			
FCC 15.407:2021		ANSI C63.10:2013	
TEST METHOD			
COMMENTS			
Reference level offset includes: DC block, 20 dB attenuator, and measurement cable.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	3	Signature	
		Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)
		Out Pwr (dBm)	Antenna Gain (dBi)
		EIRP (dBm)	EIRP Limit (dBm)
			Result
20 MHz			
802.11(a) 6 Mbps			
	Ch 52, Low Channel 5260 MHz	11.757	0
	Ch 60, Mid Channel 5300 MHz	11.804	0
	Ch 64, High Channel 5320 MHz	11.846	0
802.11(a) 36 Mbps			
	Ch 52, Low Channel 5260 MHz	10.982	0.2
	Ch 60, Mid Channel 5300 MHz	11.647	0.2
	Ch 64, High Channel 5320 MHz	11.662	0.2
802.11(a) 54 Mbps			
	Ch 52, Low Channel 5260 MHz	11.459	0.3
	Ch 60, Mid Channel 5300 MHz	11.171	0.3
	Ch 64, High Channel 5320 MHz	11.561	0.3
802.11(n) MCS0			
	Ch 52, Low Channel 5260 MHz	10.892	0
	Ch 60, Mid Channel 5300 MHz	11.626	0
	Ch 64, High Channel 5320 MHz	11.508	0
802.11(n) MCS7			
	Ch 52, Low Channel 5260 MHz	11.323	0.4
	Ch 60, Mid Channel 5300 MHz	11.015	0.4
	Ch 64, High Channel 5320 MHz	11.438	0.4
802.11(ac) MCS8 (256-QAM)			
	Ch 52, Low Channel 5260 MHz	7.844	0.4
	Ch 60, Mid Channel 5300 MHz	8.591	0.4
	Ch 64, High Channel 5320 MHz	8.768	0.4
40 MHz			
802.11(n) MCS0			
	Ch 52/56, Low Channel 5270 MHz	6.957	0.1
	Ch 60/64, High Channel 5310 MHz	7.533	0.1
802.11(n) MCS7			
	Ch 52/56, Low Channel 5270 MHz	6.296	0.6
	Ch 60/64, High Channel 5310 MHz	6.61	0.6
802.11(ac) MCS9 (256-QAM)			
	Ch 52/56, Low Channel 5270 MHz	7.766	0.7
	Ch 60/64 High Channel 5310 MHz	7.884	0.7
80 MHz			
802.11(ac) MCS0			
	Ch 52-64, Low Channel 5290 MHz	6.73	0.2
802.11(ac) MCS9 (256-QAM)			
	Ch 52-64, Low Channel 5290 MHz	6.03	1

EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

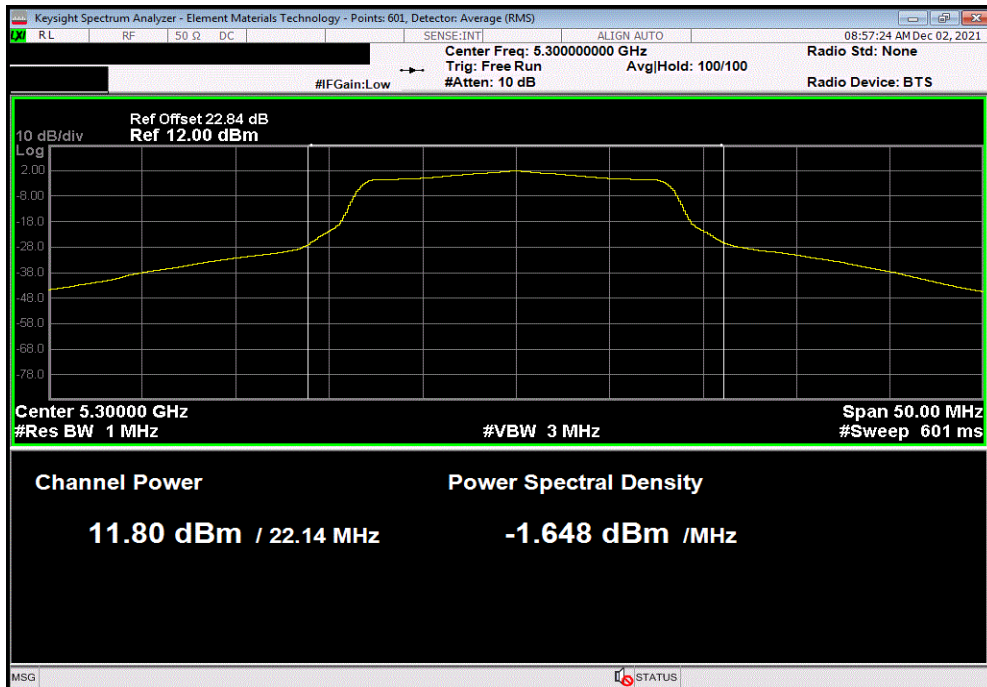


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 52, Low Channel 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.757	0	11.8	5.2	17	30	Pass



20 MHz, 802.11(a) 6 Mbps, Ch 60, Mid Channel 5300 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.804	0	11.8	5.2	17	30	Pass

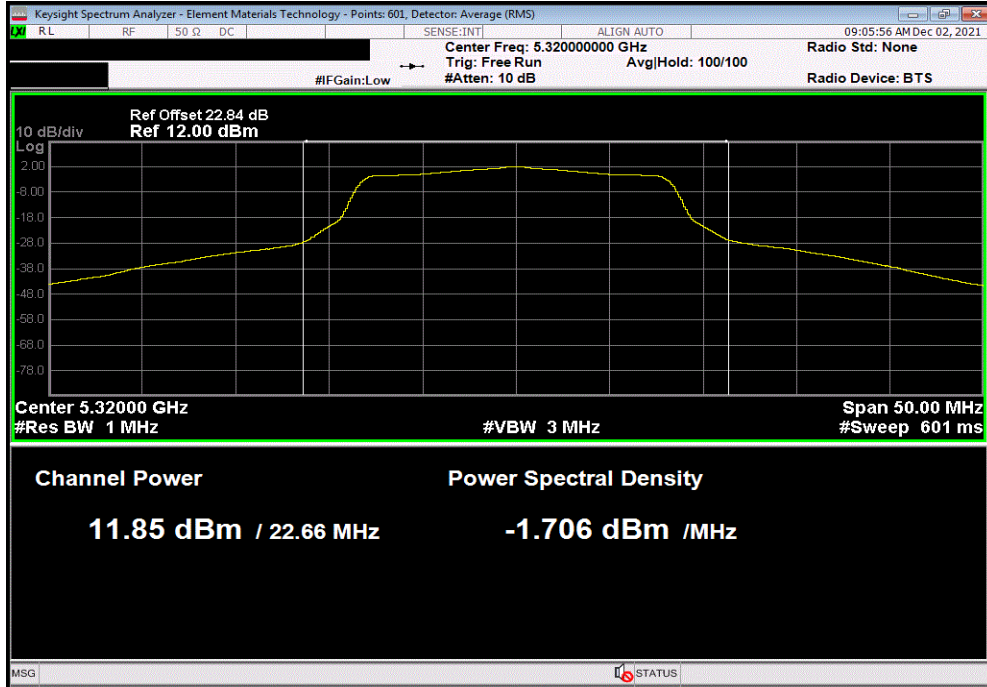


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

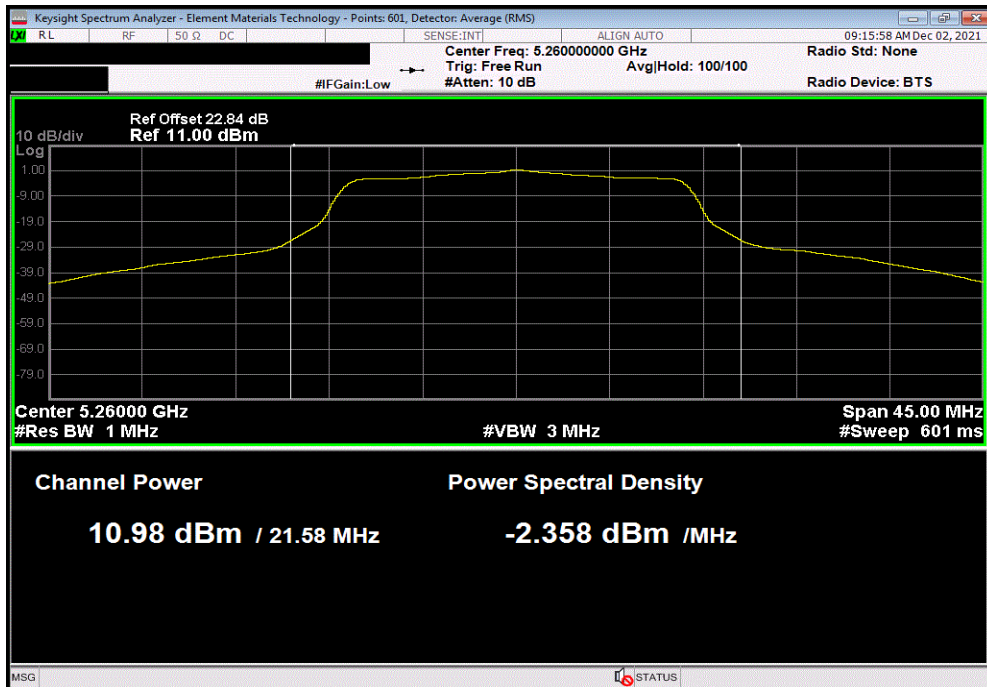


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(a) 6 Mbps, Ch 64, High Channel 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.846	0	11.8	5.2	17	30	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 52, Low Channel 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.982	0.2	11.2	5.2	16.4	30	Pass

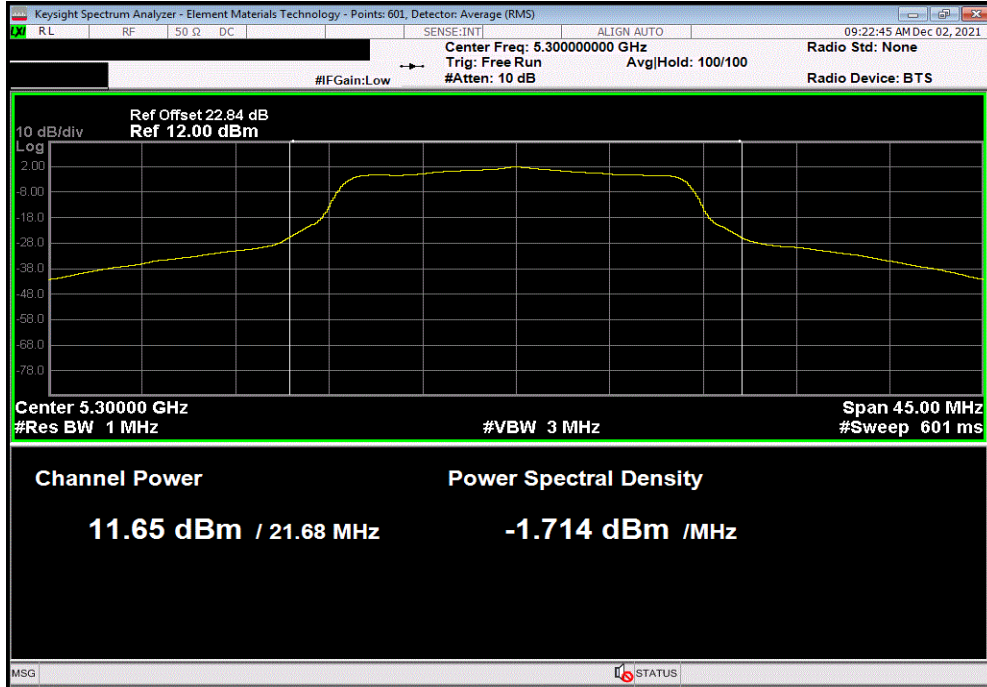


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

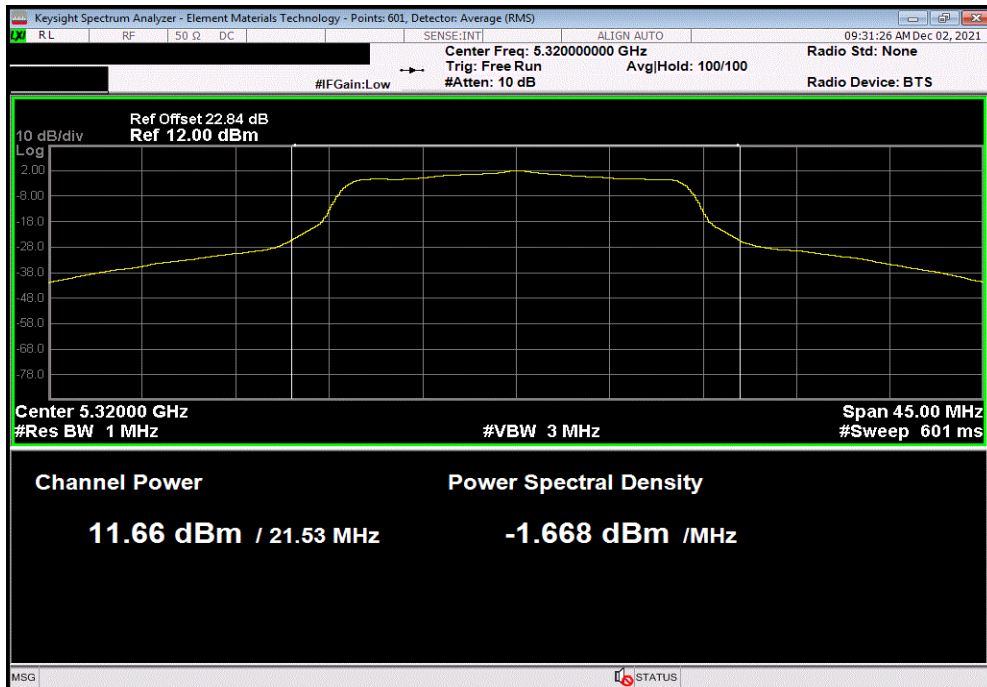


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(a) 36 Mbps, Ch 60, Mid Channel 5300 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.647	0.2	11.8	5.2	17	30	Pass



20 MHz, 802.11(a) 36 Mbps, Ch 64, High Channel 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.662	0.2	11.9	5.2	17.1	30	Pass

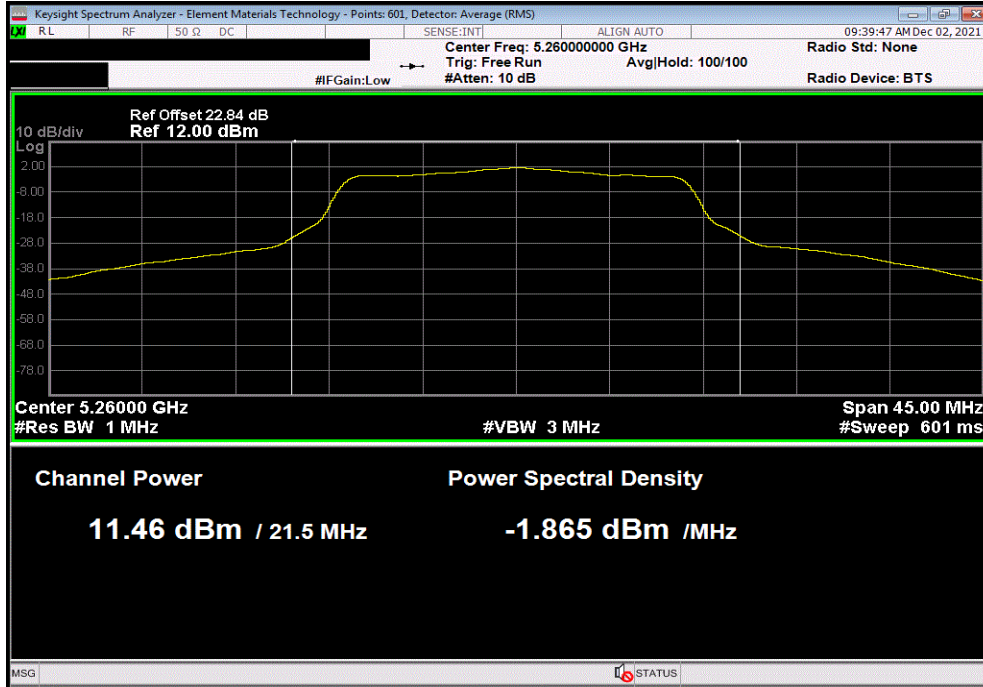


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

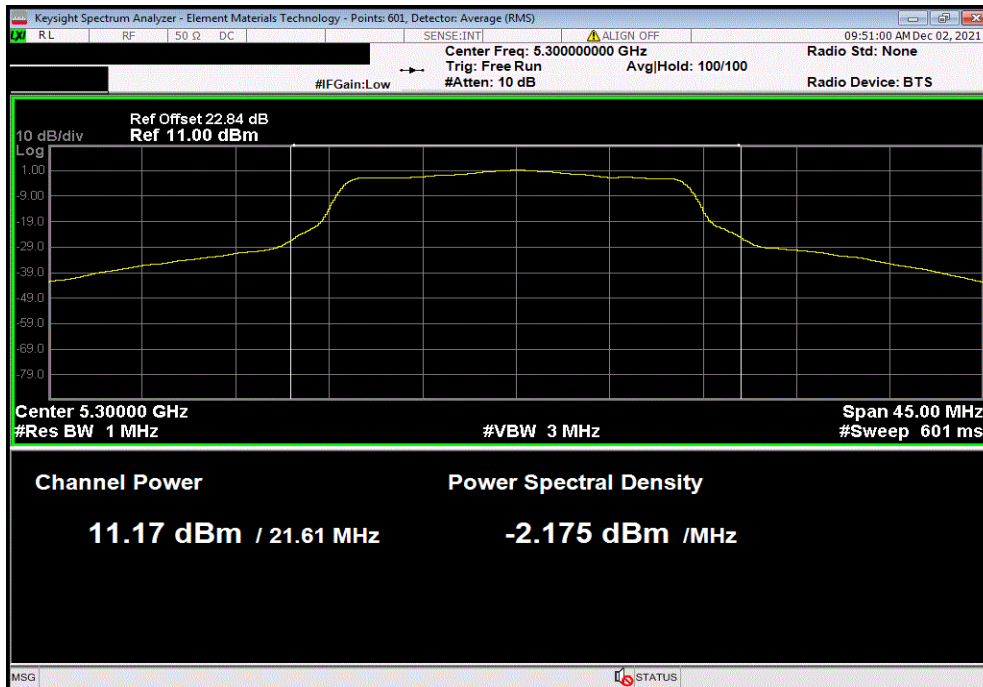


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 52, Low Channel 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.459	0.3	11.8	5.2	17	30	Pass



20 MHz, 802.11(a) 54 Mbps, Ch 60, Mid Channel 5300 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.171	0.3	11.5	5.2	16.7	30	Pass

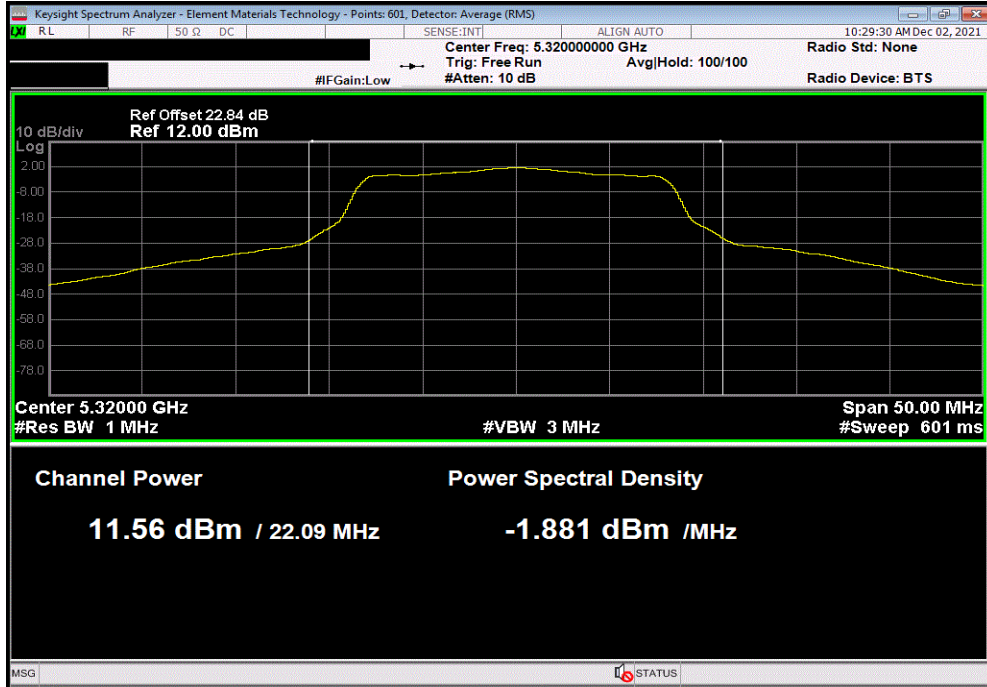


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

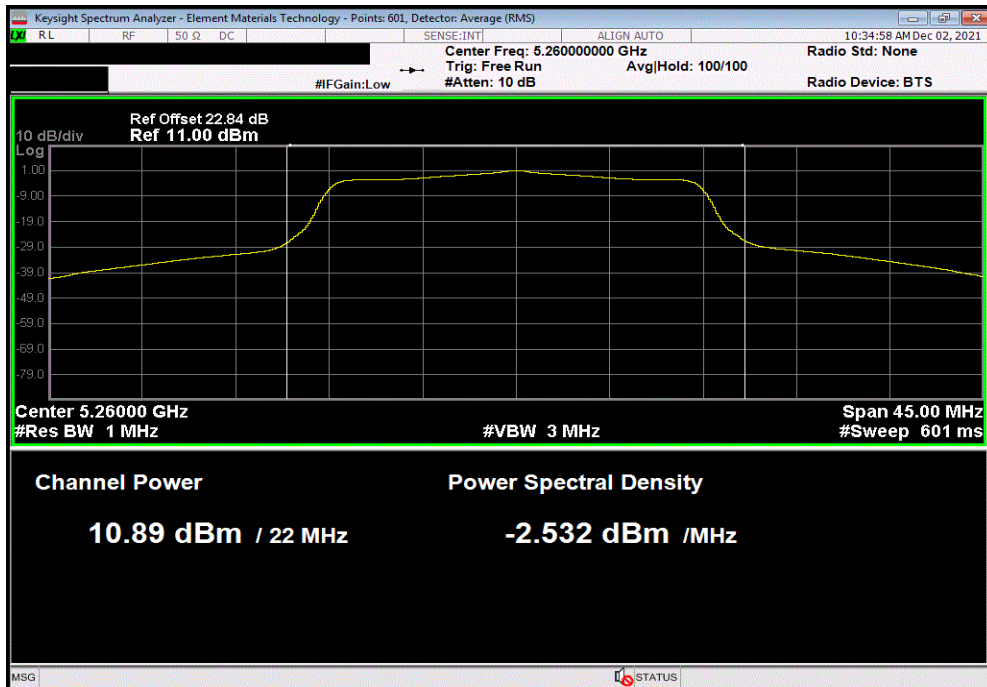


TuTx 2021.10.29.2 XMI 2020.12.30.0

20 MHz, 802.11(a) 54 Mbps, Ch 64, High Channel 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.561	0.3	11.9	5.2	17.1	30	Pass



20 MHz, 802.11(n) MCS0, Ch 52, Low Channel 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
10.892	0	10.9	5.2	16.1	30	Pass

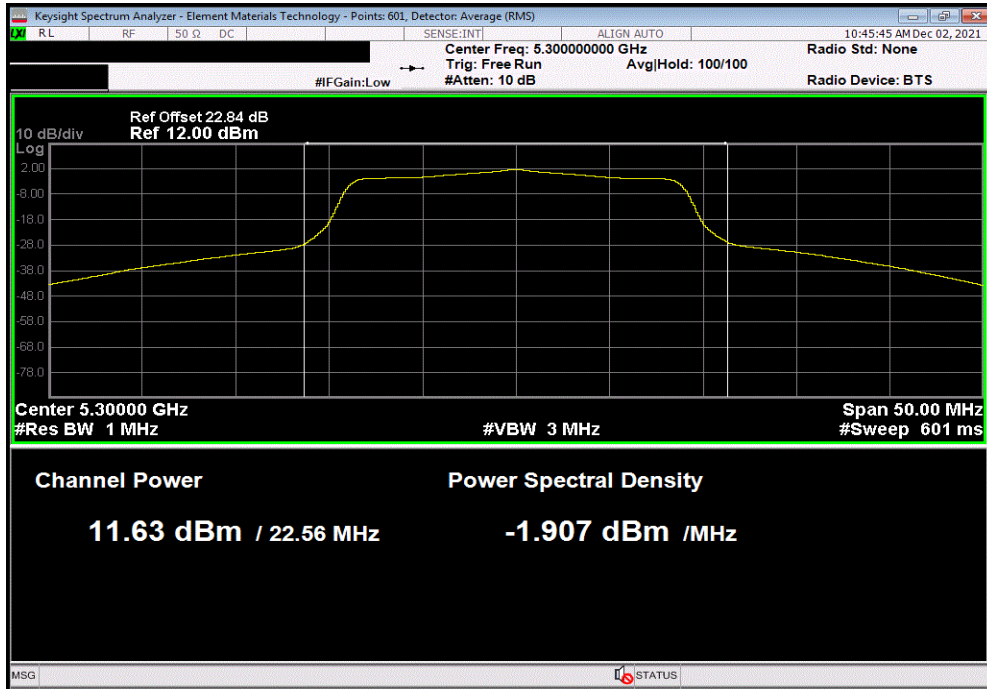


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

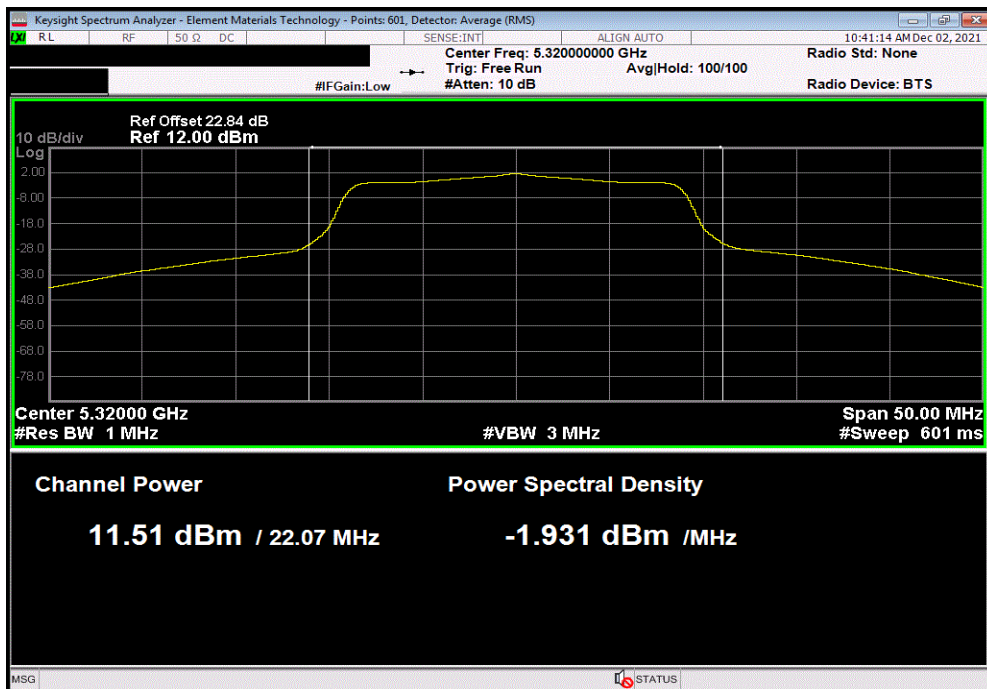


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(n) MCS0, Ch 60, Mid Channel 5300 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.626	0	11.6	5.2	16.8	30	Pass



20 MHz, 802.11(n) MCS0, Ch 64, High Channel 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.508	0	11.5	5.2	16.7	30	Pass

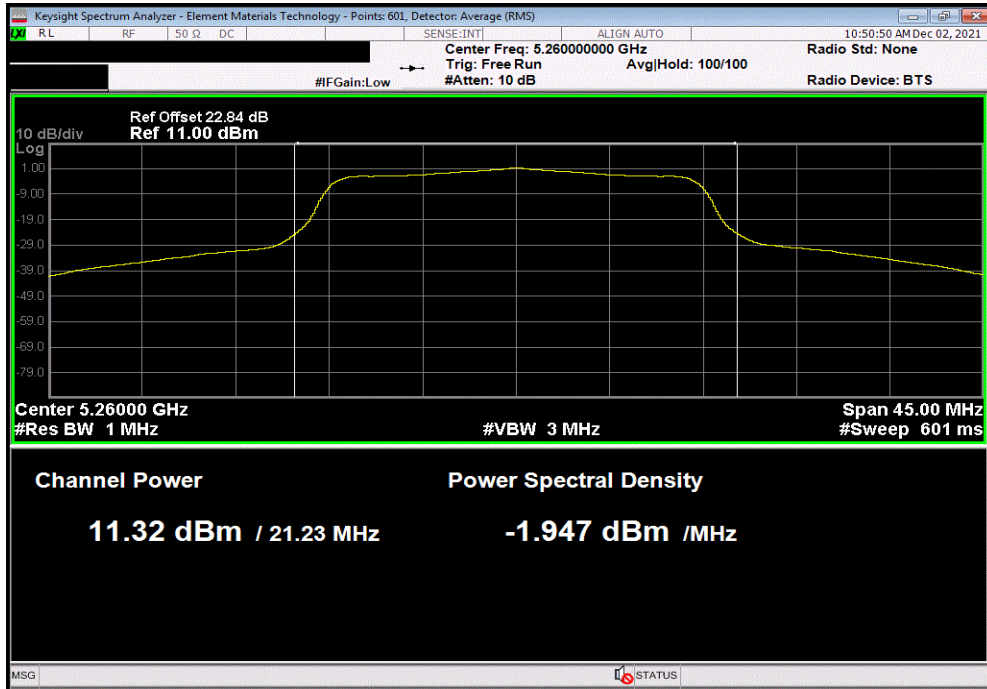


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

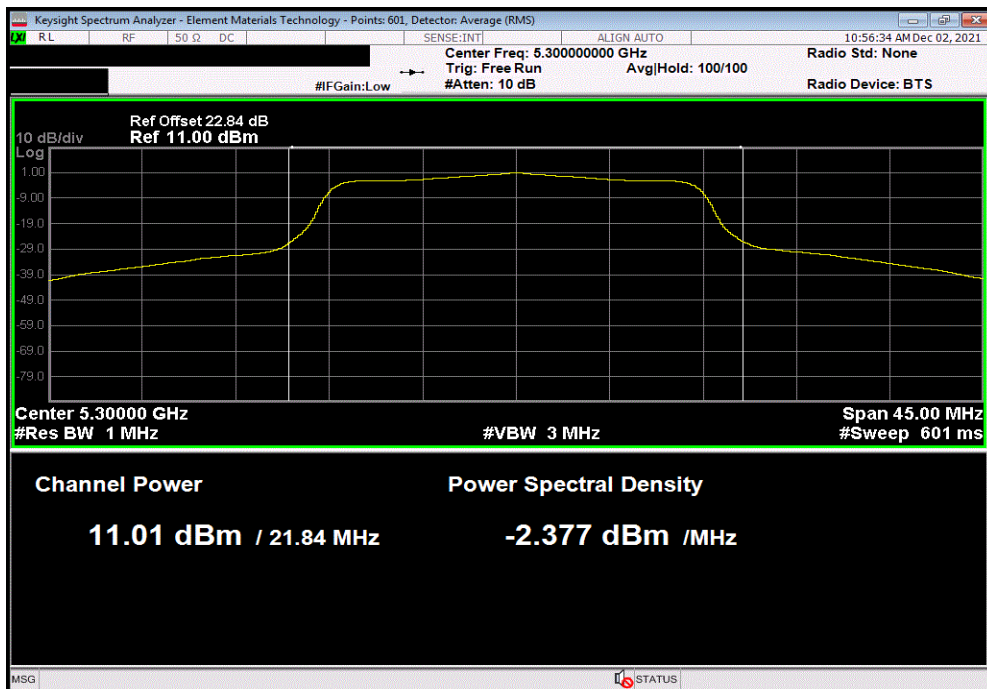


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 52, Low Channel 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.323	0.4	11.7	5.2	16.9	30	Pass



20 MHz, 802.11(n) MCS7, Ch 60, Mid Channel 5300 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.015	0.4	11.4	5.2	16.6	30	Pass

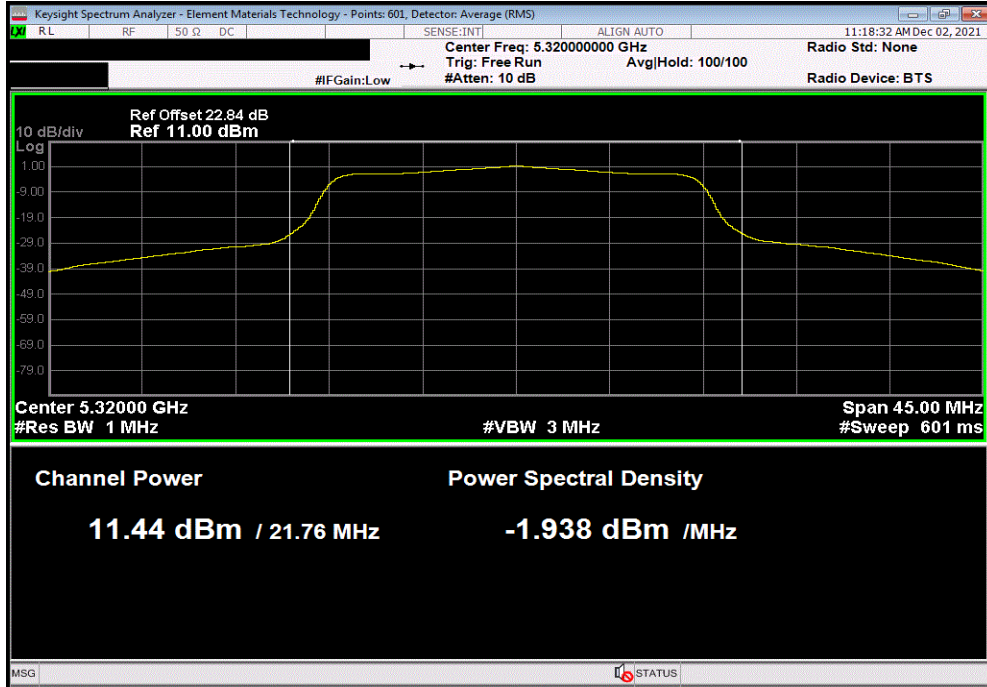


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

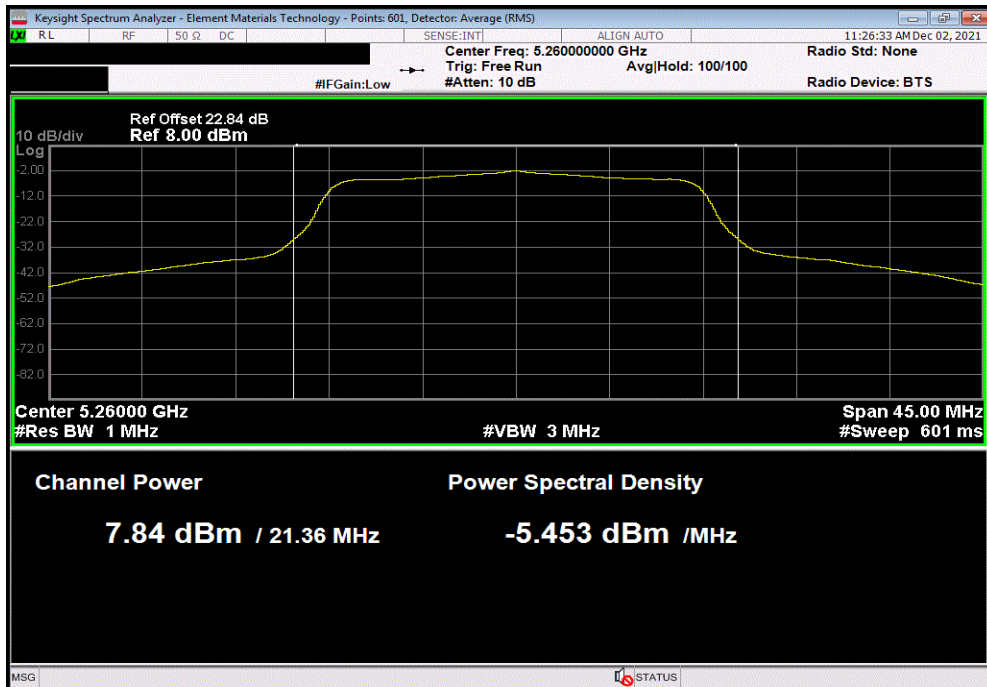


TuTx 2021.10.29.2 XMI 2020.12.30.0

20 MHz, 802.11(n) MCS7, Ch 64, High Channel 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
11.438	0.4	11.8	5.2	17	30	Pass



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 52, Low Channel 5260 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.844	0.4	8.2	5.2	13.4	30	Pass

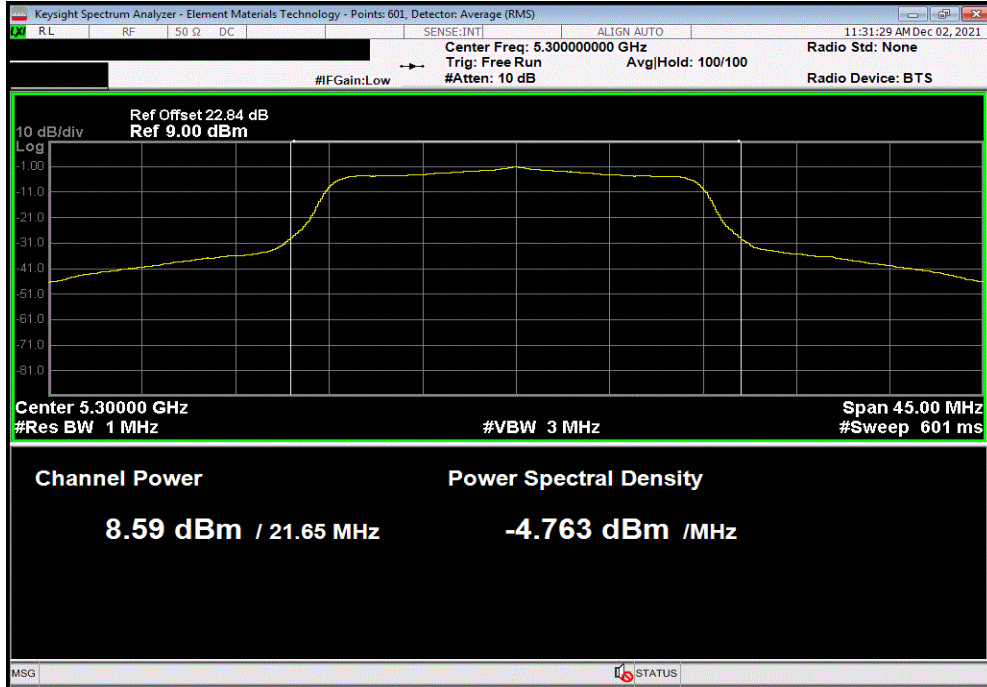


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

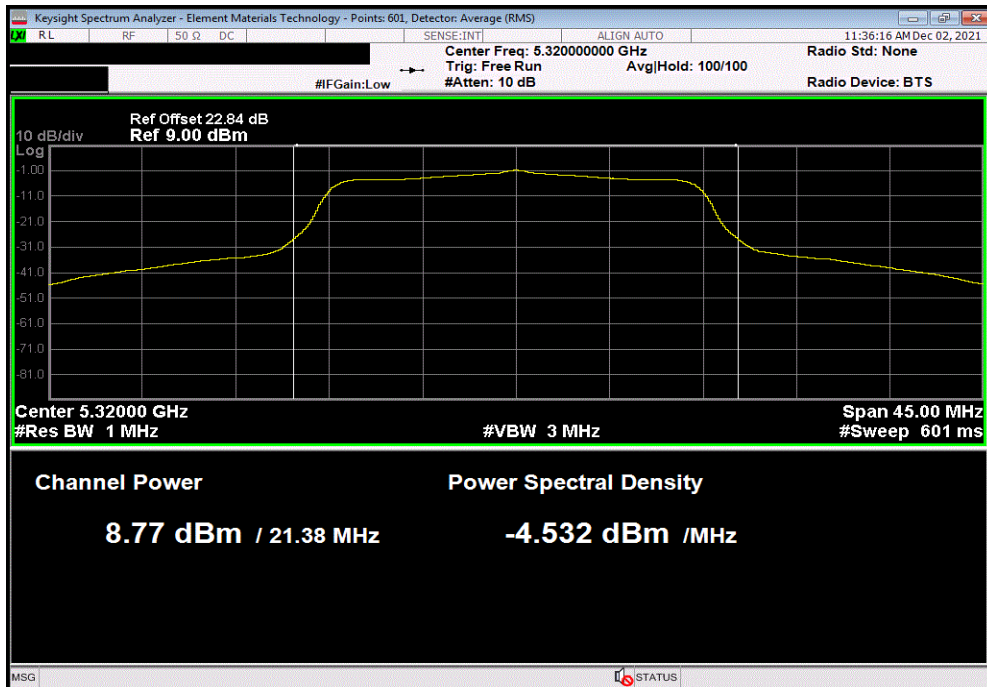


TuTx 2021.10.29.2 XMt 2020.12.30.0

20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 60, Mid Channel 5300 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.591	0.4	9	5.2	14.2	30	Pass



20 MHz, 802.11(ac) MCS8 (256-QAM), Ch 64, High Channel 5320 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
8.768	0.4	9.2	5.2	14.4	30	Pass

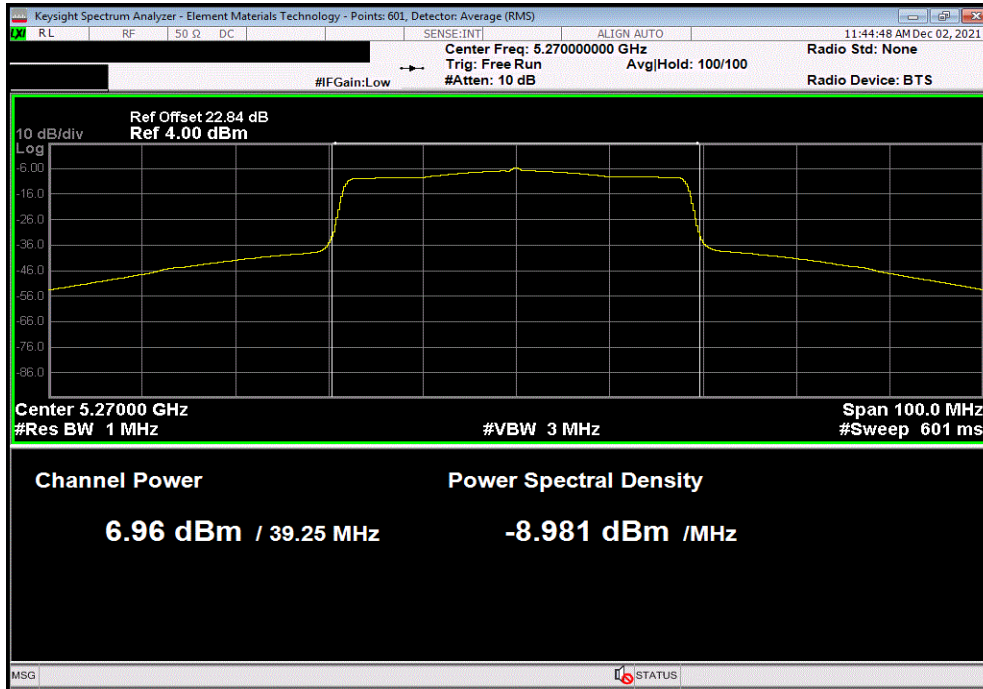


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

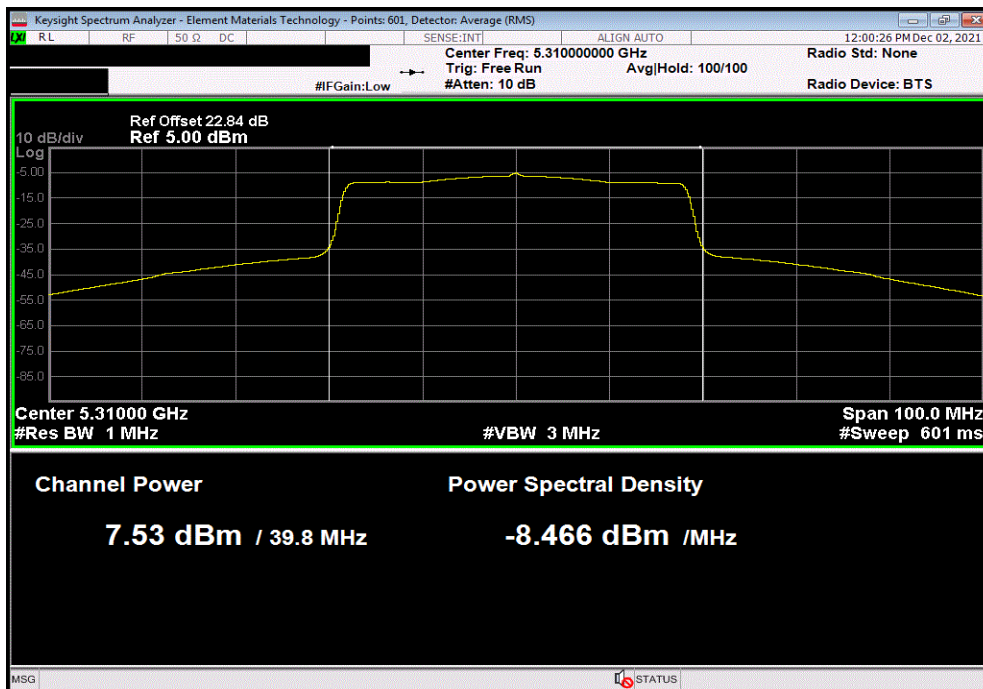


TuTx 2021.10.29.2 XMt 2020.12.30.0

40 MHz, 802.11(n) MCS0, Ch 52/56, Low Channel 5270 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.957	0.1	7.1	5.2	12.3	30	Pass



40 MHz, 802.11(n) MCS0, Ch 60/64, High Channel 5310 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.533	0.1	7.6	5.2	12.8	30	Pass

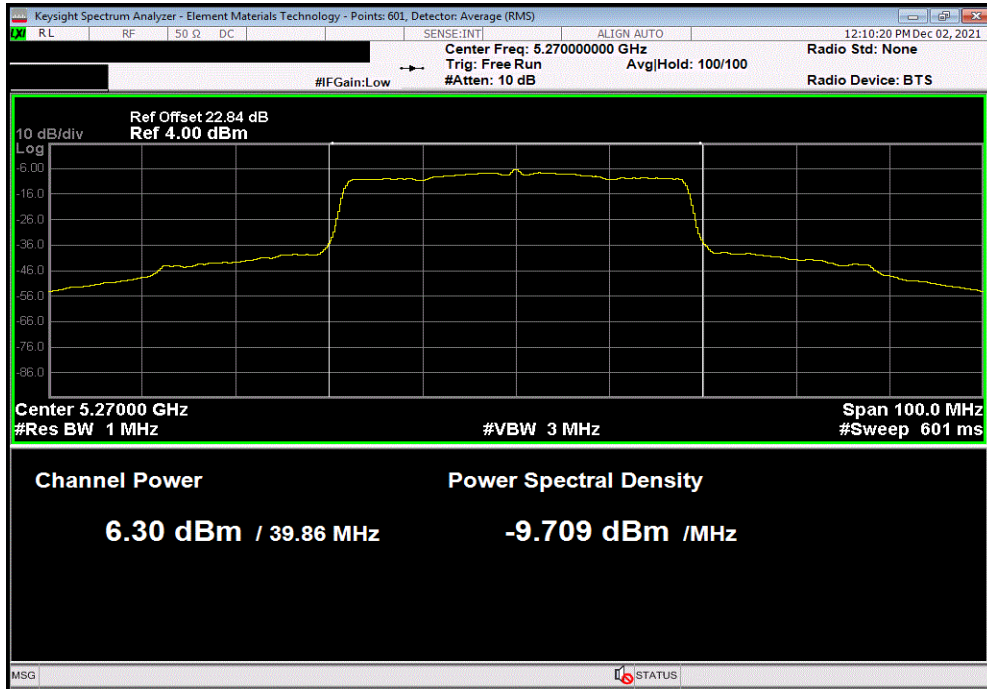


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

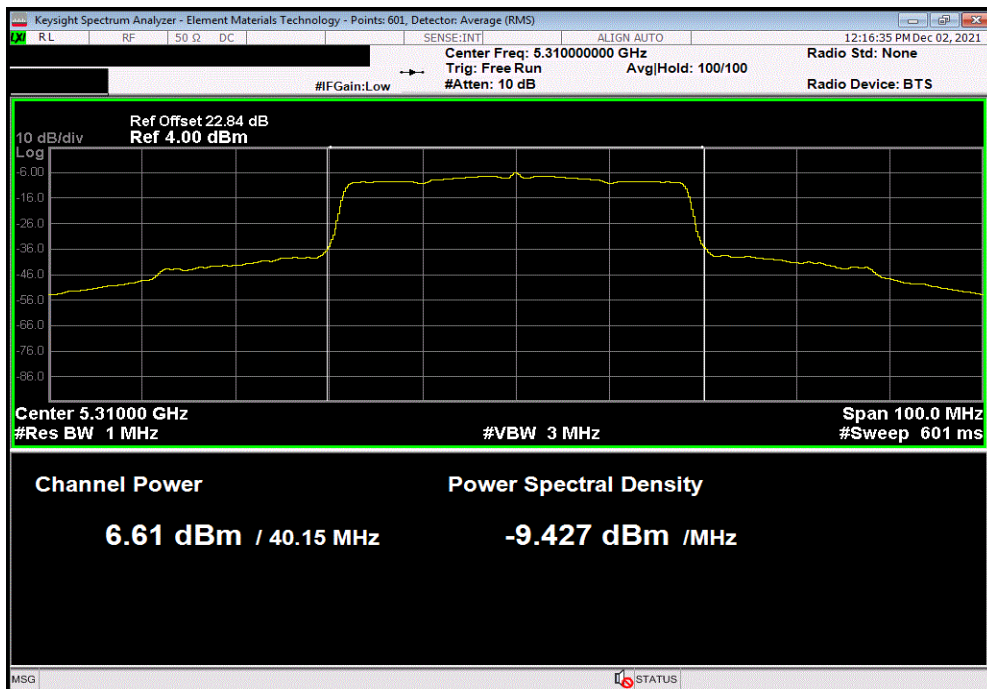


TuTx 2021.10.29.2 XMt 2020.12.30.0

40 MHz, 802.11(n) MCS7, Ch 52/56, Low Channel 5270 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.296	0.6	6.9	5.2	12.1	30	Pass



40 MHz, 802.11(n) MCS7, Ch 60/64, High Channel 5310 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.61	0.6	7.2	5.2	12.4	30	Pass

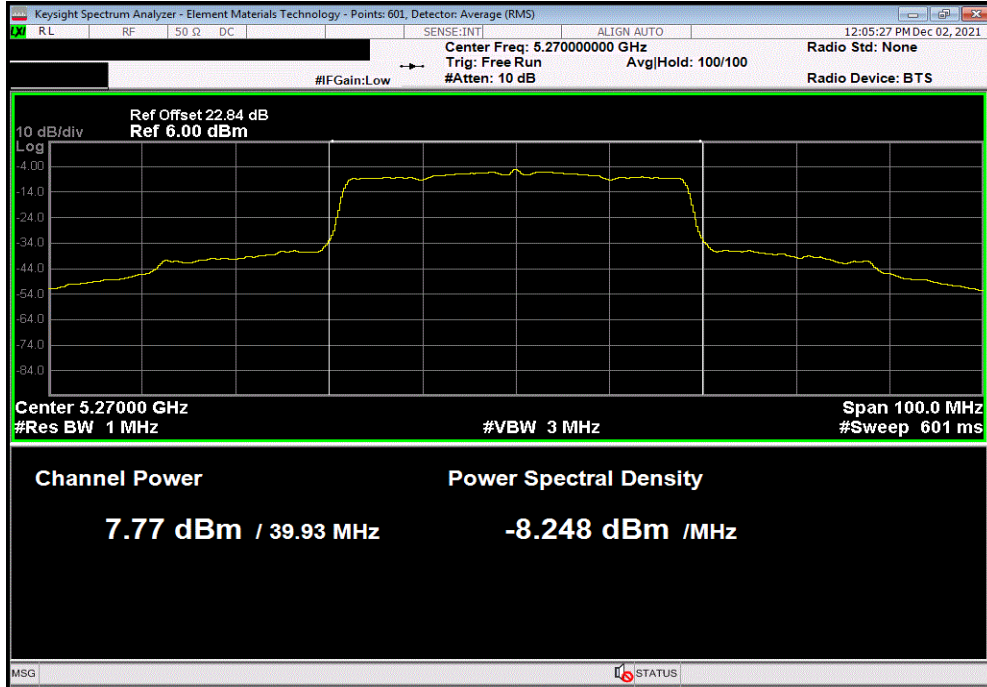


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND

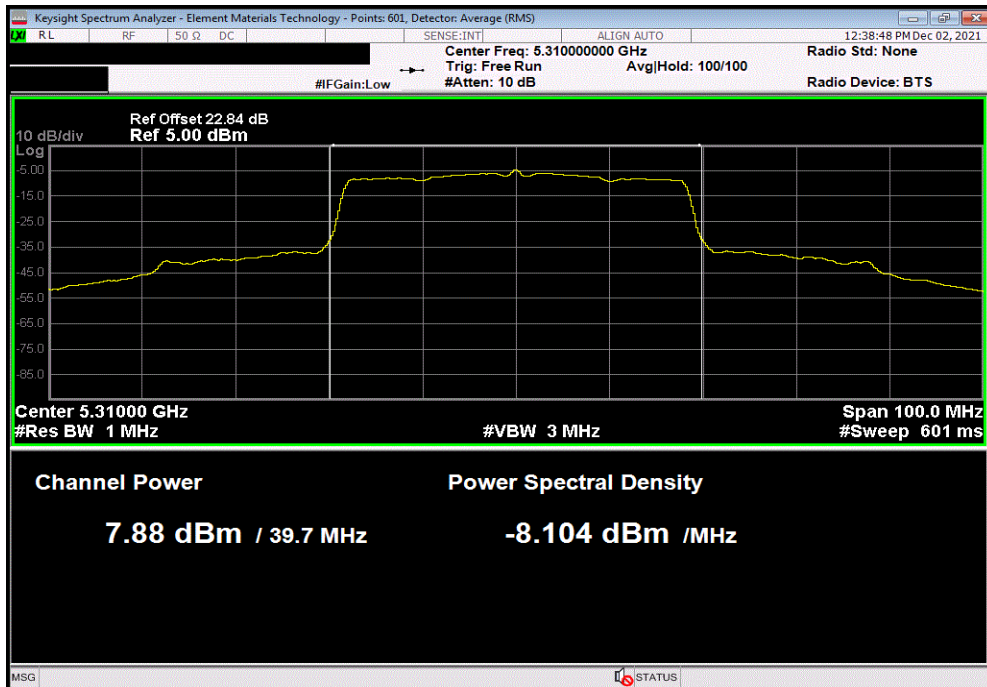


TuTx 2021.10.29.2 XMt 2020.12.30.0

40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 52/56, Low Channel 5270 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.766	0.7	8.5	5.2	13.7	30	Pass



40 MHz, 802.11(ac) MCS9 (256-QAM), Ch 60/64 High Channel 5310 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
7.884	0.7	8.6	5.2	13.8	30	Pass

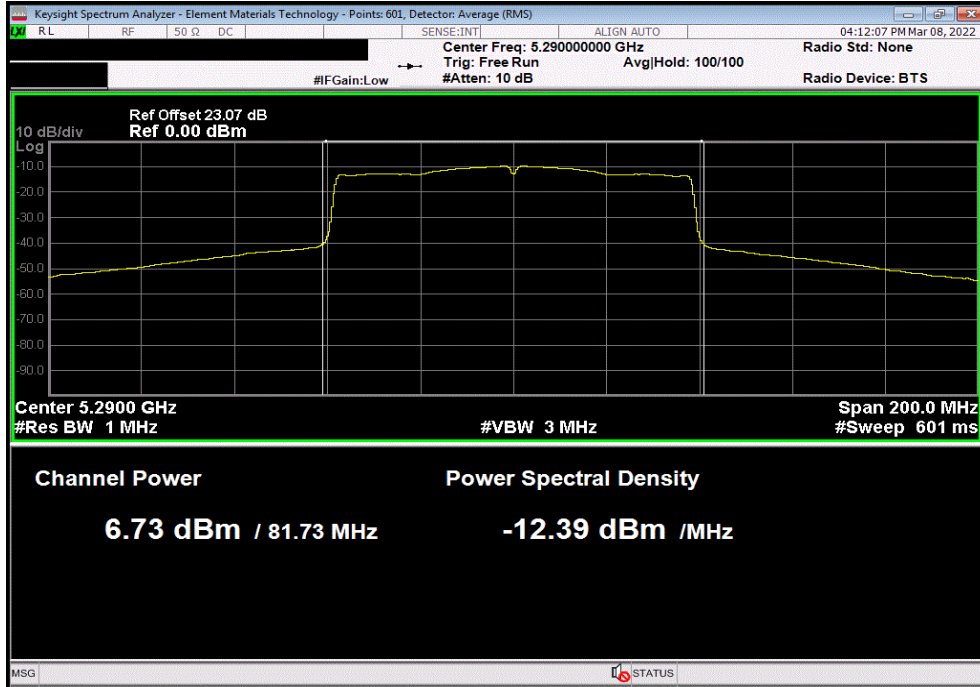


EQUIVALENT ISOTROPIC RADIATED POWER (EIRP) - 5.3 GHz BAND



TuTx 2021.10.29.2 XMt 2020.12.30.0

80 MHz, 802.11(ac) MCS0, Ch 52-64, Low Channel 5290 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.73	0.2	6.9	5.2	12.1	30	Pass



80 MHz, 802.11(ac) MCS9 (256-QAM), Ch 52-64, Low Channel 5290 MHz						
Avg Cond Pwr (dBm)	Duty Cycle Factor (dB)	Out Pwr (dBm)	Antenna Gain (dBi)	EIRP (dBm)	EIRP Limit (dBm)	Result
6.03	1	7	5.2	12.2	30	Pass

