

OUTPUT POWER



XMIT 2020.03.25.0

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
Block - DC	Fairview Microwave	SD3464	ANA	25-Sep-20	25-Sep-21
Analyzer - Spectrum Analyzer	Agilent	N9010A	AFL	27-Feb-20	27-Feb-21
Generator - Signal	Keysight	N5171B-506	TEW	2-May-18	2-May-21

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.

The method in section 5.2.4.4 of ANSI C63.26 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.

RF conducted emissions testing was performed on one port. The FRIJ antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification report) and port 4 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraphs 5.2.5.3, 5.7.2i and 6.4. The total average transmit power of all antenna ports was determined per ANSI C63.26-2015 paragraph 6.4.3.1.

OUTPUT POWER



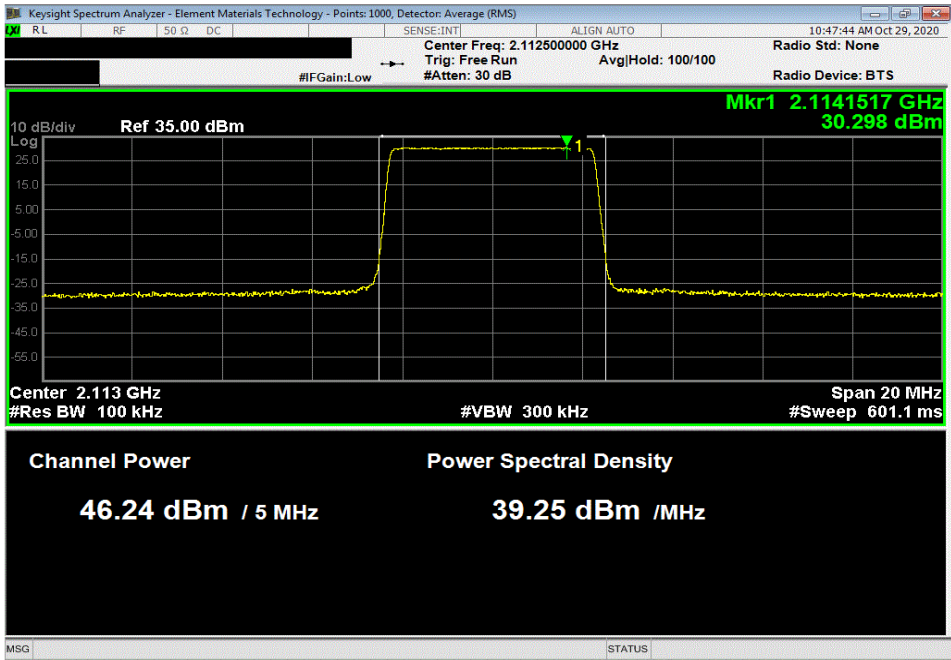
EUT: FRIJ				Work Order: NOKI0019			
Serial Number: YK160800020				Date: 30-Oct-20			
Customer: Nokia Solutions and Networks				Temperature: 22.2 °C			
Attendees: Mitchell Hill, John Rattanavong				Humidity: 35.9% RH			
Project: None				Barometric Pres.: 1037 mbar			
Tested by: Brandon Hobbs		Power: 54 VDC		Job Site: TX05			
TEST SPECIFICATIONS				Test Method			
FCC 24E:2020				ANSI C63.26:2015			
RSS-139:2015, RSS-170:2015				RSS-139:2015, RSS-170:2015			
COMMENTS							
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks.). Band n66 carriers are enabled at maximum power (40 watts/carrier). The following is the output power measurements at the radio output ports. The output power was measured for a single carrier over the carrier channel bandwidth on port 4. The total output power for multiport (2x2 MIMO & 4x4 MIMO) operation was determined based upon ANSI 63.26 clauses 6.4.3.1 and 6.4.3.2.4 (10 log Nout). The total output power for two port operation is single port power + 3dB [i.e. 10log(2)]. The total output power for four port operation is single port power + 6dB [i.e. 10log(4)].							
DEVIATIONS FROM TEST STANDARD							
None							
Configuration #	2	Signature 					
		Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
		dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
Port 4, Band n66, 2110 MHz - 2200 MHz							
5 MHz Bandwidth							
QPSK Modulation							
		Low Channel 2112.5 MHz	46.244	0	46.2	49.2	52.2
		Mid Channel 2155 MHz	46.008	0	46.0	49.0	52.0
		High Channel 2197.5 MHz	45.956	0	46.0	49.0	52.0
16-QAM Modulation							
		Low Channel 2112.5 MHz	45.911	0	45.9	48.9	51.9
		Mid Channel 2155 MHz	45.771	0	45.8	48.8	51.8
		High Channel 2197.5 MHz	45.822	0	45.8	48.8	51.8
64-QAM Modulation							
		Low Channel 2112.5 MHz	46.101	0	46.1	49.1	52.1
		Mid Channel 2155 MHz	46.152	0	46.2	49.2	52.2
		High Channel 2197.5 MHz	45.941	0	45.9	48.9	51.9
256-QAM Modulation							
		Low Channel 2112.5 MHz	46.065	0	46.1	49.1	52.1
		Mid Channel 2155 MHz	45.931	0	45.9	48.9	51.9
		High Channel 2197.5 MHz	45.894	0	45.9	48.9	51.9
10 MHz Bandwidth							
QPSK Modulation							
		Low Channel 2115 MHz	46.239	0	46.2	49.2	52.2
		Mid Channel 2155 MHz	46.065	0	46.1	49.1	52.1
		High Channel 2195 MHz	45.992	0	46.0	49.0	52.0
16-QAM Modulation							
		Low Channel 2115 MHz	45.859	0	45.9	48.9	51.9
		Mid Channel 2155 MHz	45.980	0	46.0	49.0	52.0
		High Channel 2195 MHz	45.817	0	45.8	48.8	51.8
64-QAM Modulation							
		Low Channel 2115 MHz	45.977	0	46.0	49.0	52.0
		Mid Channel 2155 MHz	46.157	0	46.2	49.2	52.2
		High Channel 2195 MHz	45.877	0	45.9	48.9	51.9
256-QAM Modulation							
		Low Channel 2115 MHz	46.040	0	46.0	49.0	52.0
		Mid Channel 2155 MHz	46.021	0	46.0	49.0	52.0
		High Channel 2195 MHz	45.842	0	45.8	48.8	51.8
15 MHz Bandwidth							
QPSK Modulation							
		Low Channel 2117.5 MHz	46.321	0	46.3	49.3	52.3
		Mid Channel 2155 MHz	46.230	0	46.2	49.2	52.2
		High Channel 2192.5 MHz	45.981	0	46.0	49.0	52.0
16-QAM Modulation							
		Low Channel 2117.5 MHz	46.183	0	46.2	49.2	52.2
		Mid Channel 2155 MHz	46.106	0	46.1	49.1	52.1
		High Channel 2192.5 MHz	45.908	0	45.9	48.9	51.9
64-QAM Modulation							
		Low Channel 2117.5 MHz	46.240	0	46.2	49.2	52.2
		Mid Channel 2155 MHz	46.108	0	46.1	49.1	52.1
		High Channel 2192.5 MHz	45.938	0	45.9	48.9	51.9
256-QAM Modulation							
		Low Channel 2117.5 MHz	46.222	0	46.2	49.2	52.2
		Mid Channel 2155 MHz	46.115	0	46.1	49.1	52.1
		High Channel 2192.5 MHz	45.997	0	46.0	49.0	52.0
20 MHz Bandwidth							
QPSK Modulation							
		Low Channel 2120 MHz	46.369	0	46.4	49.4	52.4
		Mid Channel 2155 MHz	46.169	0	46.2	49.2	52.2
		High Channel 2190 MHz	46.148	0	46.1	49.1	52.1
16-QAM Modulation							
		Low Channel 2120 MHz	46.285	0	46.3	49.3	52.3
		Mid Channel 2155 MHz	46.099	0	46.1	49.1	52.1
		High Channel 2190 MHz	46.136	0	46.1	49.1	52.1
64-QAM Modulation							
		Low Channel 2120 MHz	46.317	0	46.3	49.3	52.3
		Mid Channel 2155 MHz	46.140	0	46.1	49.1	52.1
		High Channel 2190 MHz	46.184	0	46.2	49.2	52.2
256-QAM Modulation							
		Low Channel 2120 MHz	46.318	0	46.3	49.3	52.3
		Mid Channel 2155 MHz	46.192	0	46.2	49.2	52.2
		High Channel 2190 MHz	46.150	0	46.2	49.2	52.2

OUTPUT POWER

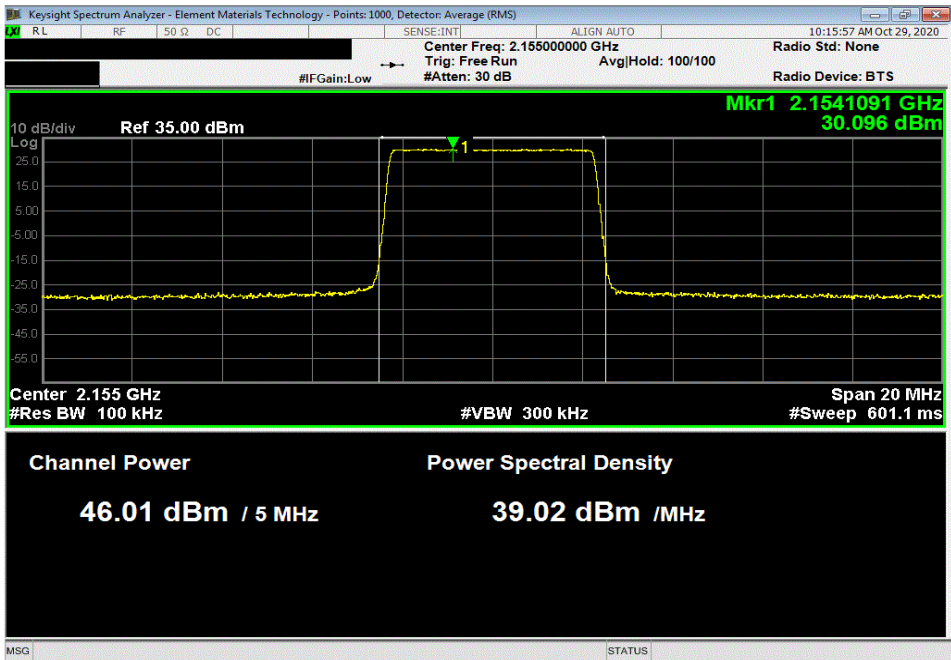


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Low Channel 2112.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.244	0	46.2	49.2	52.2	



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.008	0	46.0	49.0	52.0	

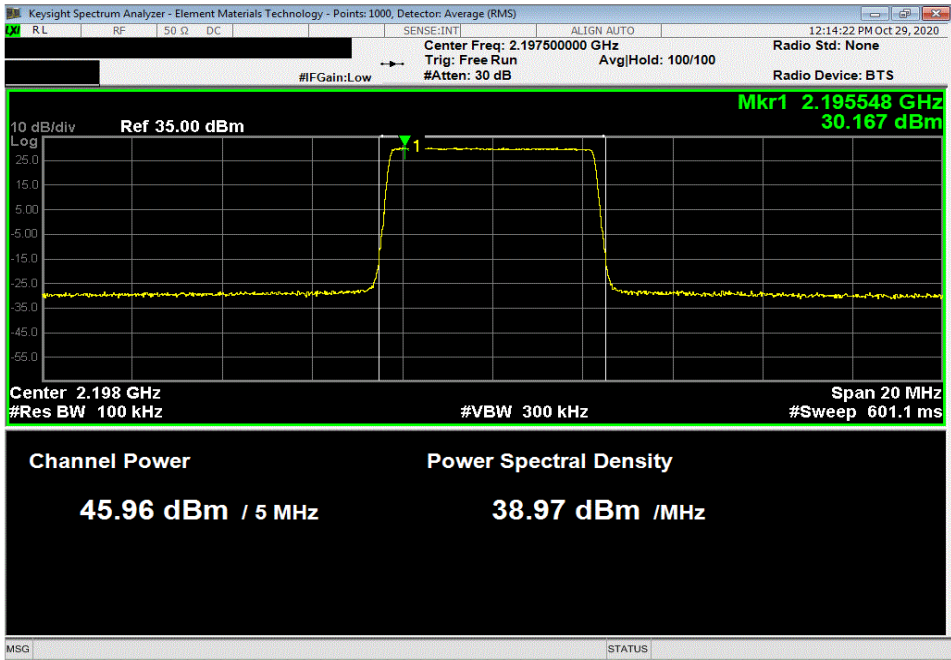


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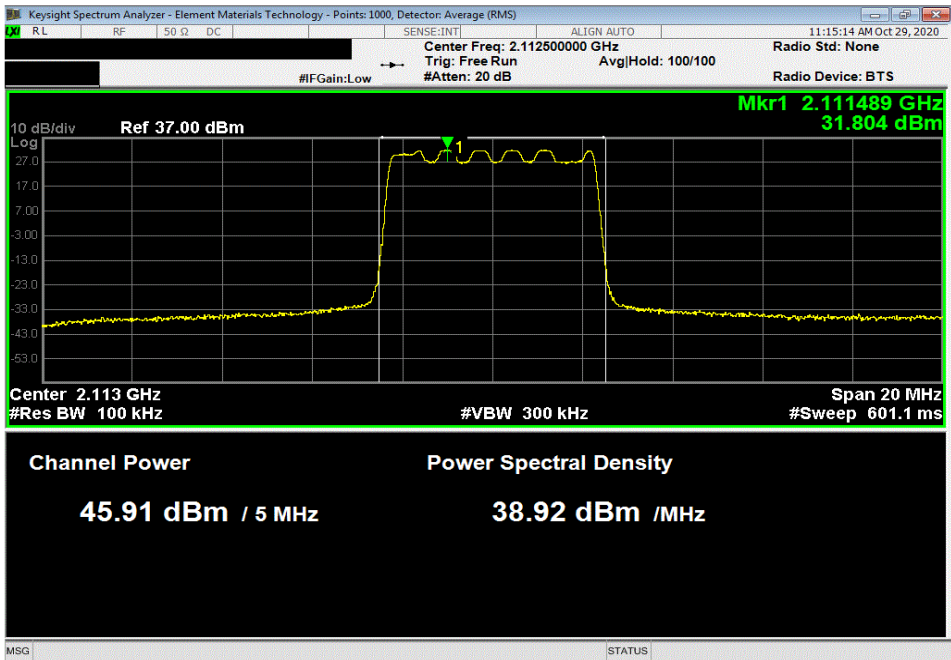


TbT's 2020.10.20.0 BETA XMI 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , QPSK Modulation, High Channel 2197.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.956	0	46.0	49.0	52.0	



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 16-QAM Modulation, Low Channel 2112.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.911	0	45.9	48.9	51.9	

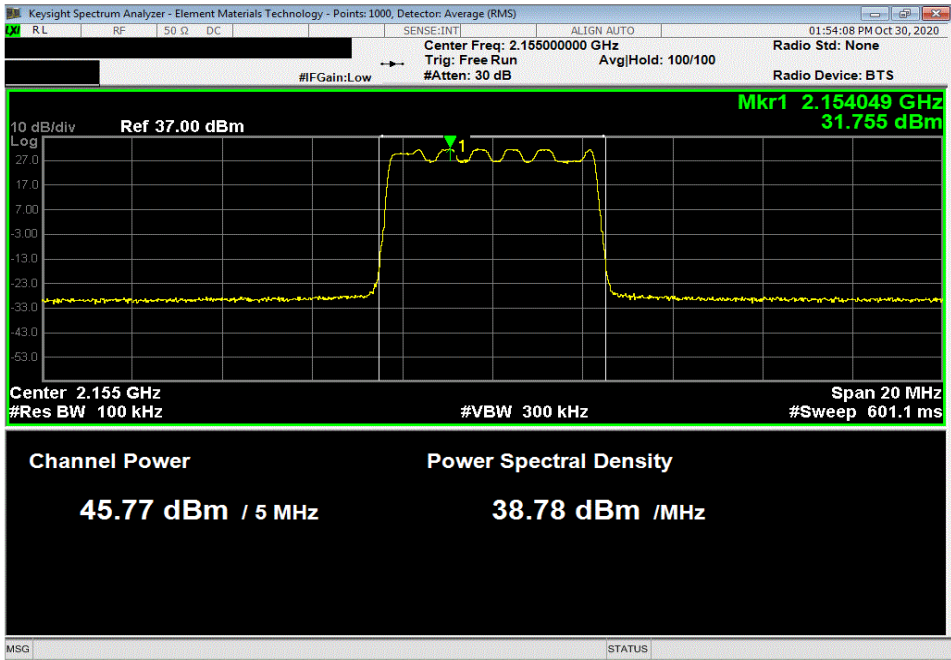


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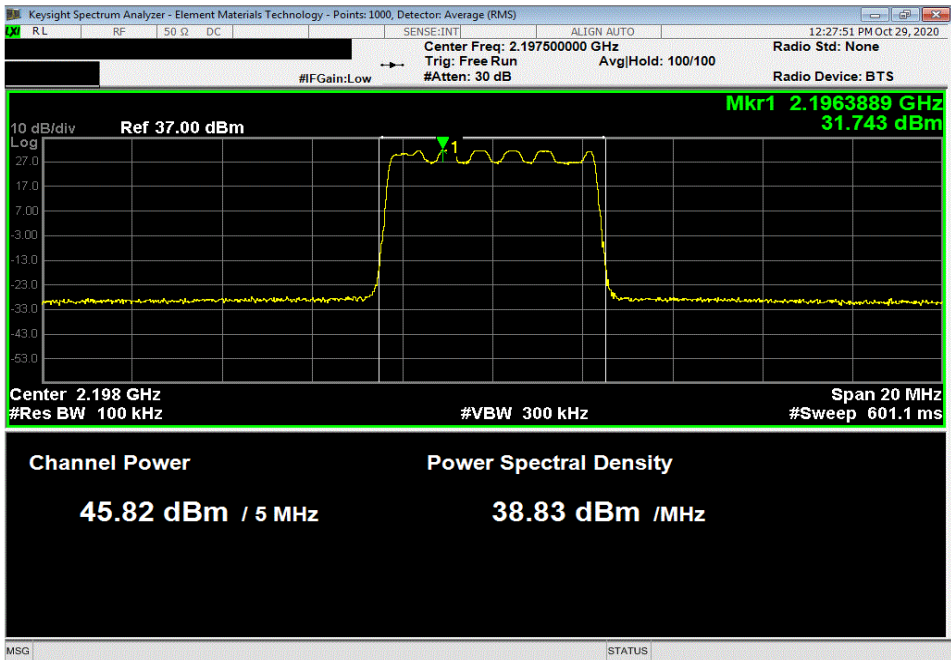


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Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.771	0	45.8	48.8	51.8	



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth, 16-QAM Modulation, High Channel 2197.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.822	0	45.8	48.8	51.8	

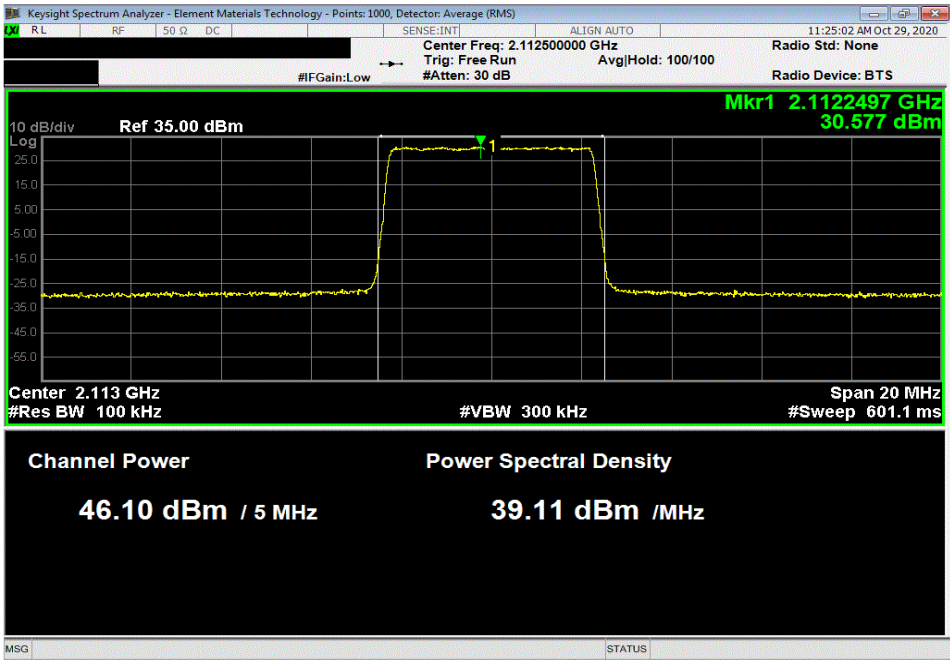


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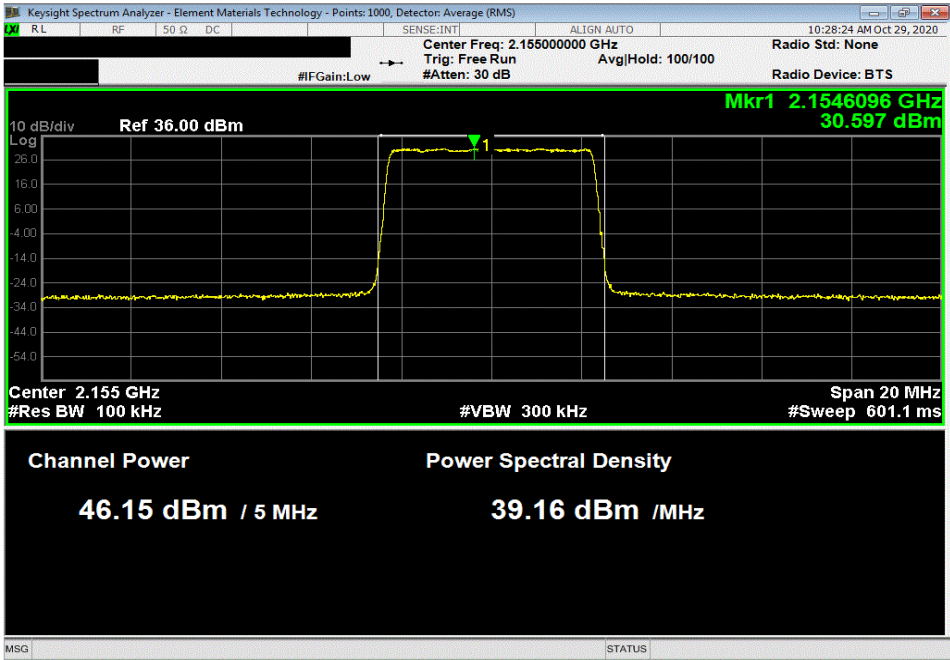


TbTtA 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Low Channel 2112.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.101	0	46.1	49.1	52.1	



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.152	0	46.2	49.2	52.2	

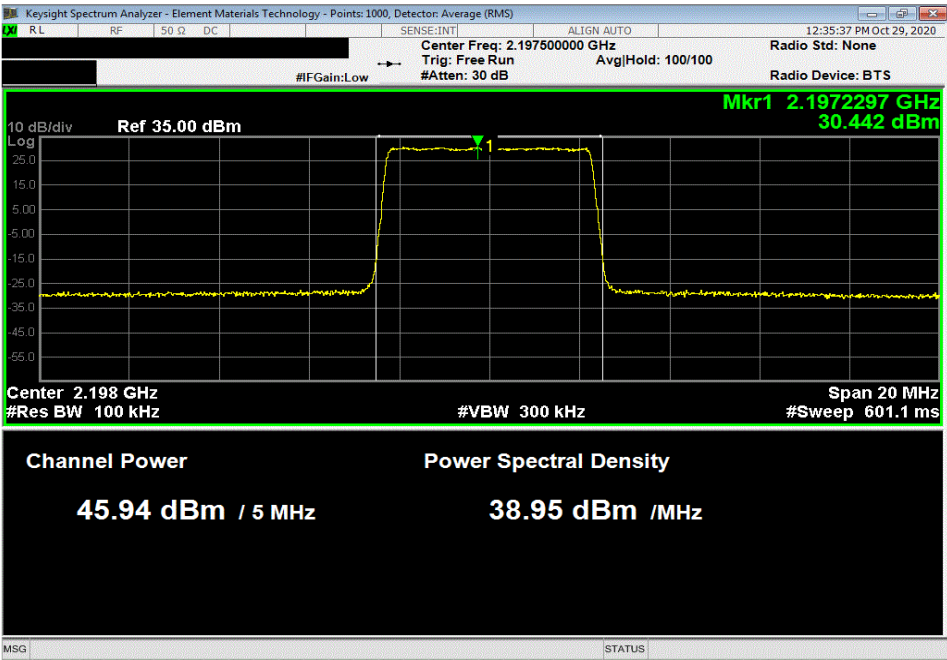


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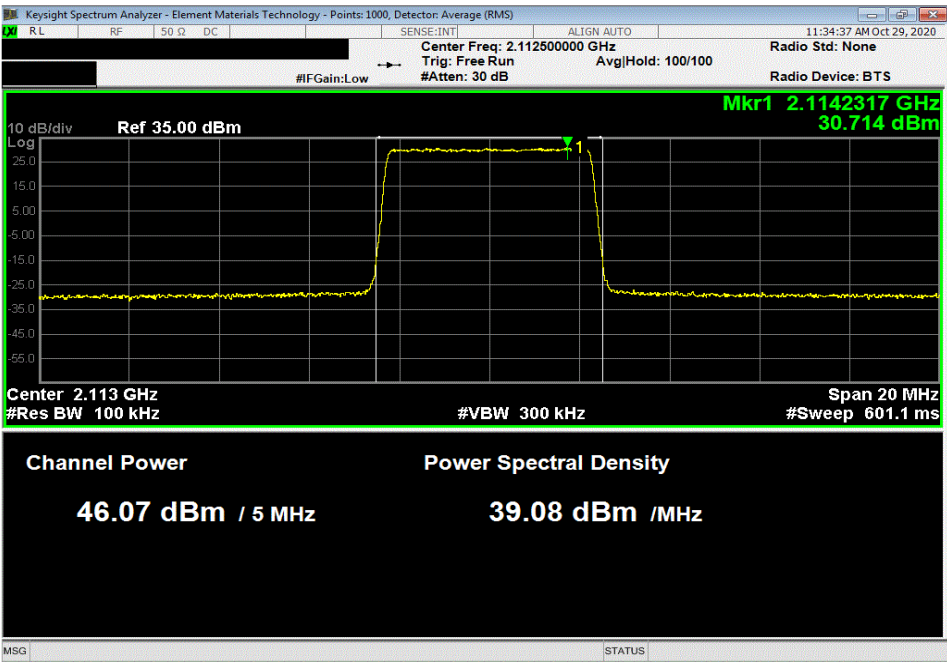


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Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 64-QAM Modulation, High Channel 2197.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.941	0	45.9	48.9	51.9	



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Low Channel 2112.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.065	0	46.1	49.1	52.1	

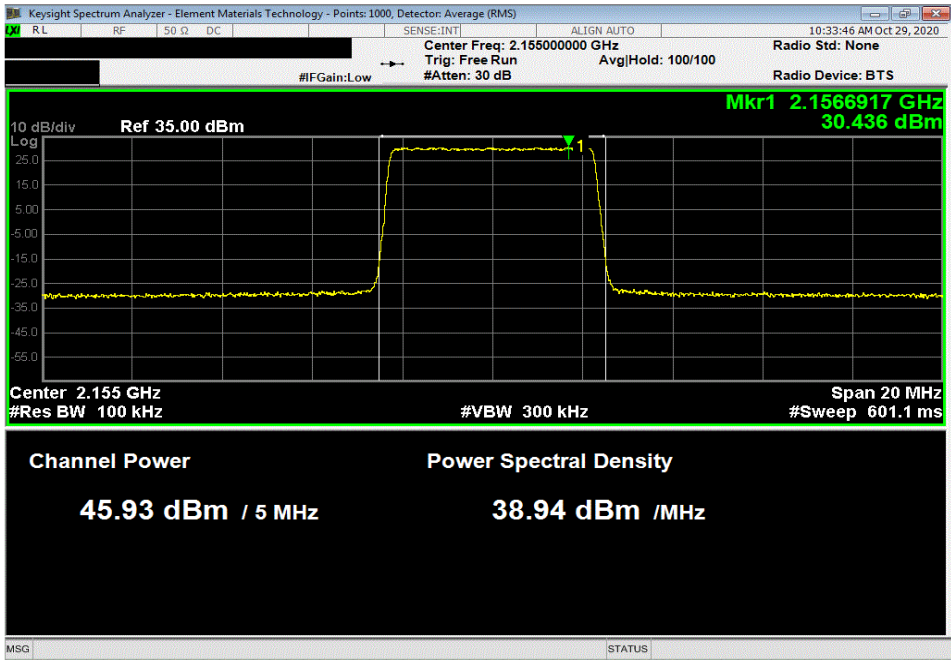


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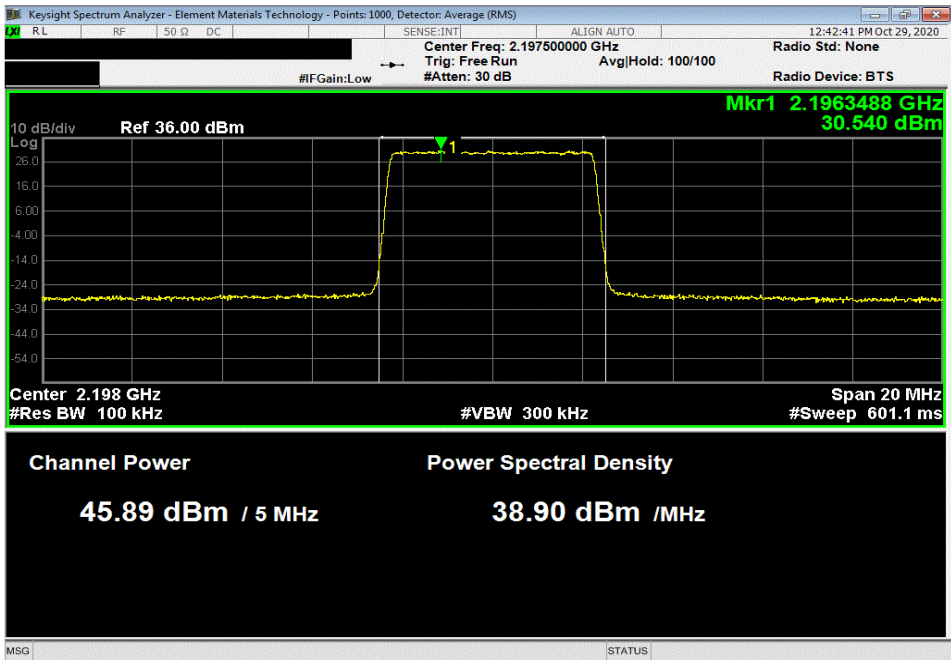


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Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.931	0	45.9	48.9	51.9	



Port 4, Band n66, 2110 MHz - 2200 MHz, 5 MHz Bandwidth , 256-QAM Modulation, High Channel 2197.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.894	0	45.9	48.9	51.9	

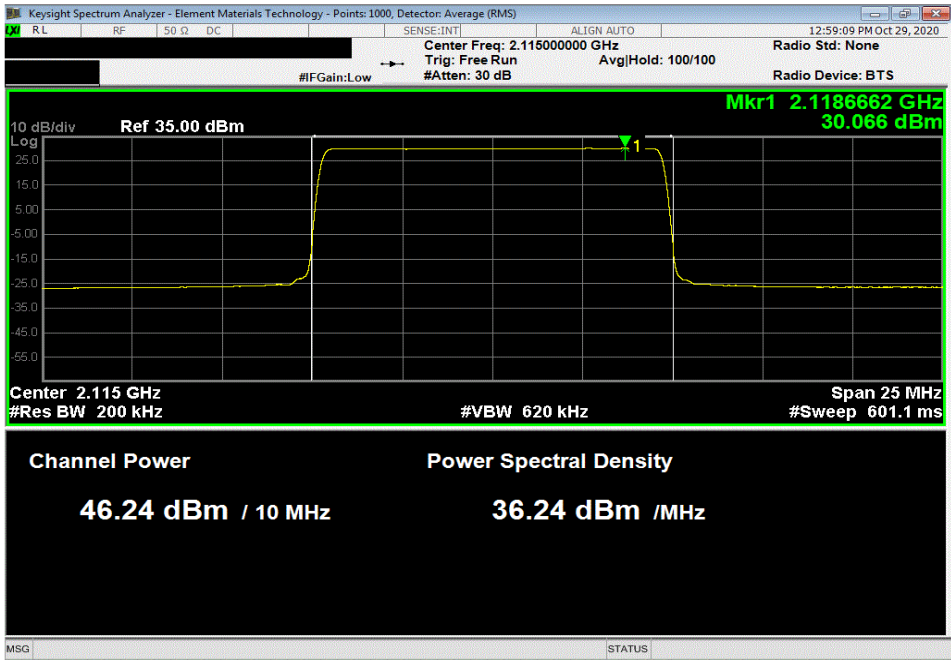


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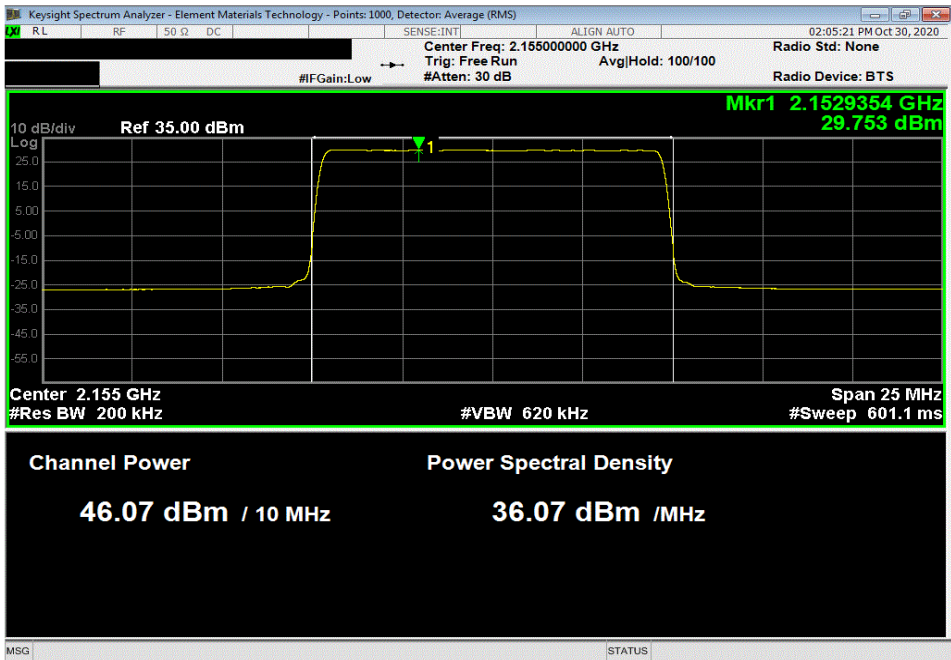


TbTfX 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, QPSK Modulation, Low Channel 2115 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.239	0	46.2	49.2	52.2	



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.065	0	46.1	49.1	52.1	

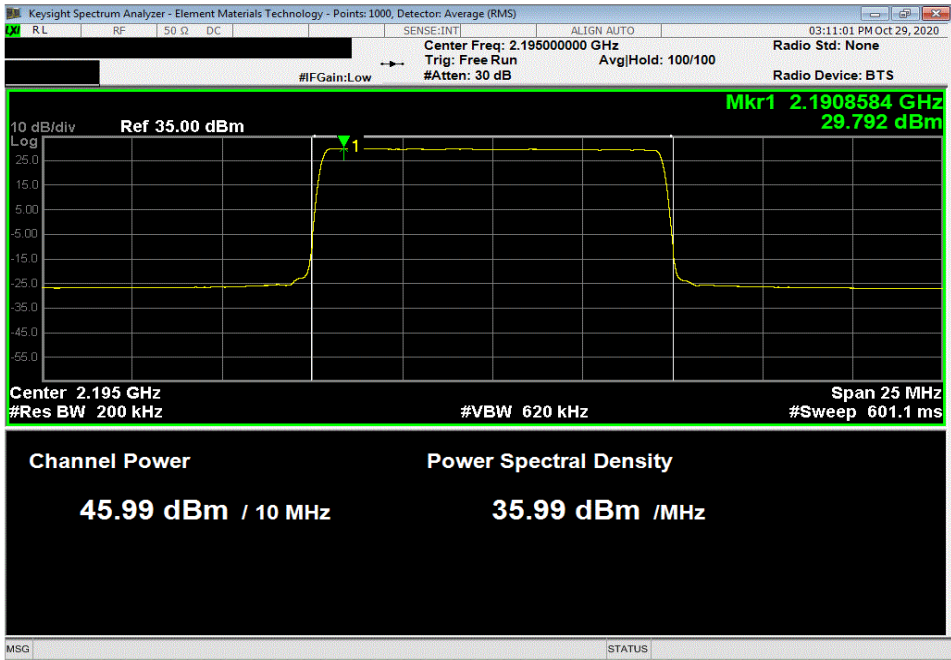


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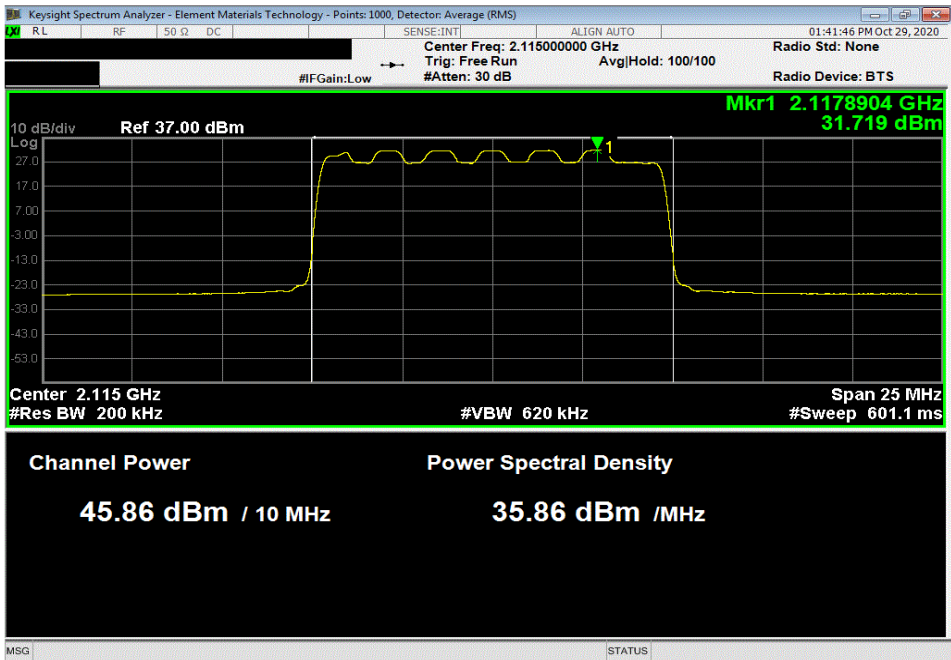


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Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , QPSK Modulation, High Channel 2195 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
45.992	0	46.0	49.0	52.0		



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 16-QAM Modulation, Low Channel 2115 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
45.859	0	45.9	48.9	51.9		

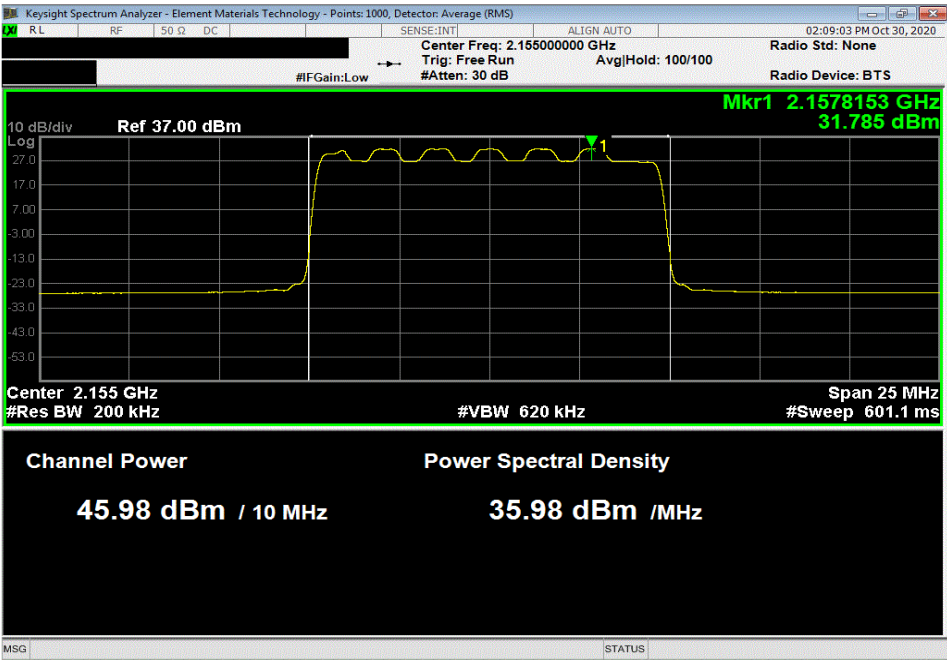


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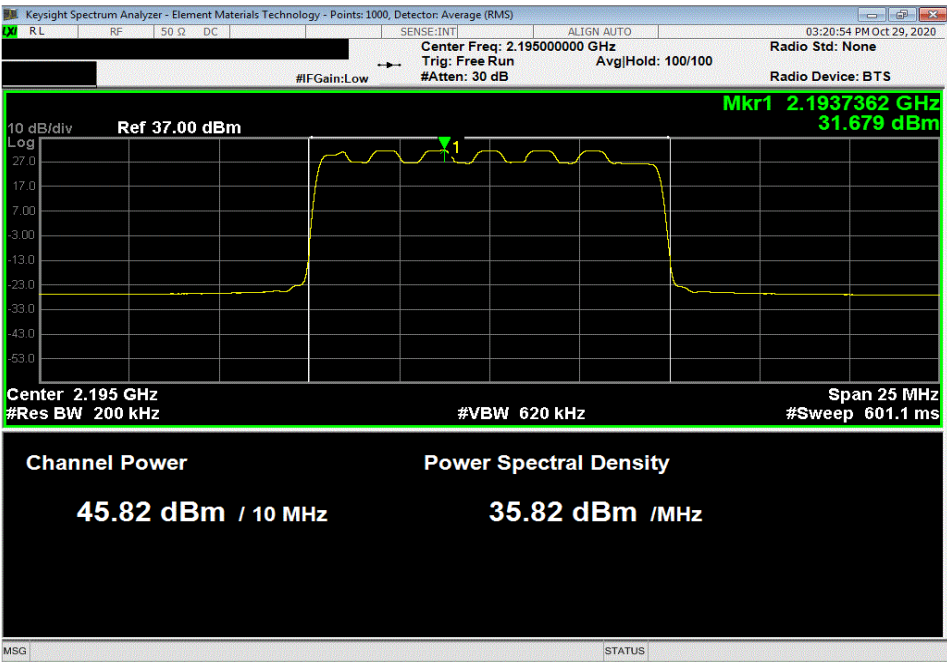


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Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.98	0	46.0	49.0	52.0	



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 16-QAM Modulation, High Channel 2195 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.817	0	45.8	48.8	51.8	

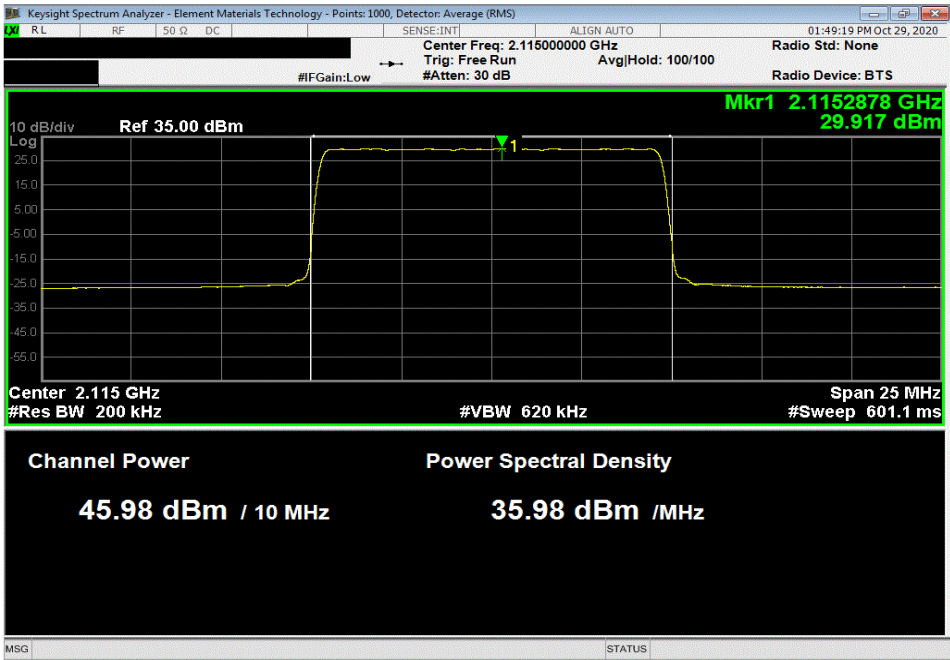


OUTPUT POWER

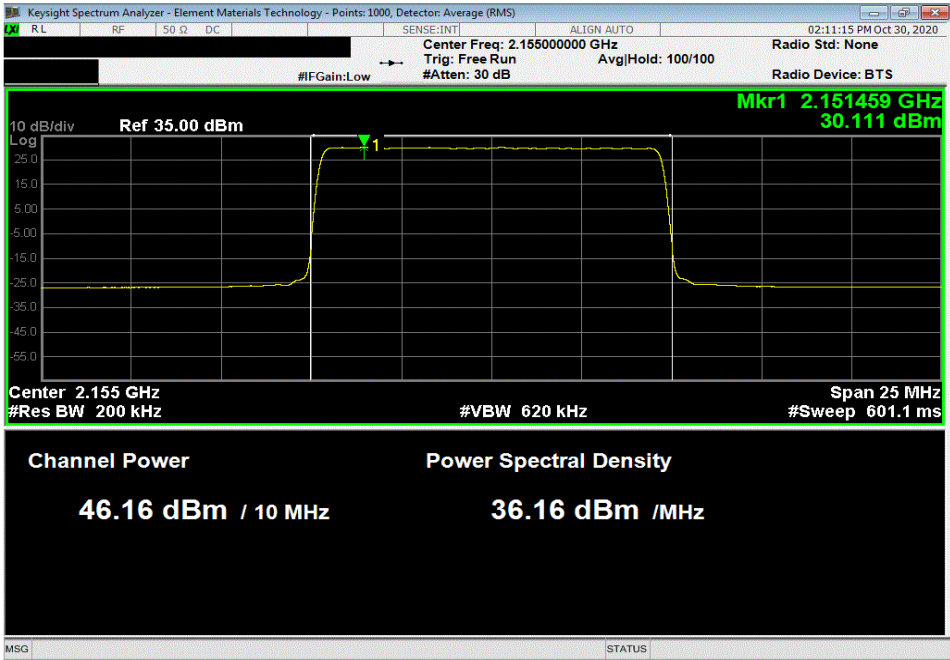


TbT's 2020.10.20.0 BETA XMI 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 2115 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.977	0	46.0	49.0	52.0	



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.157	0	46.2	49.2	52.2	

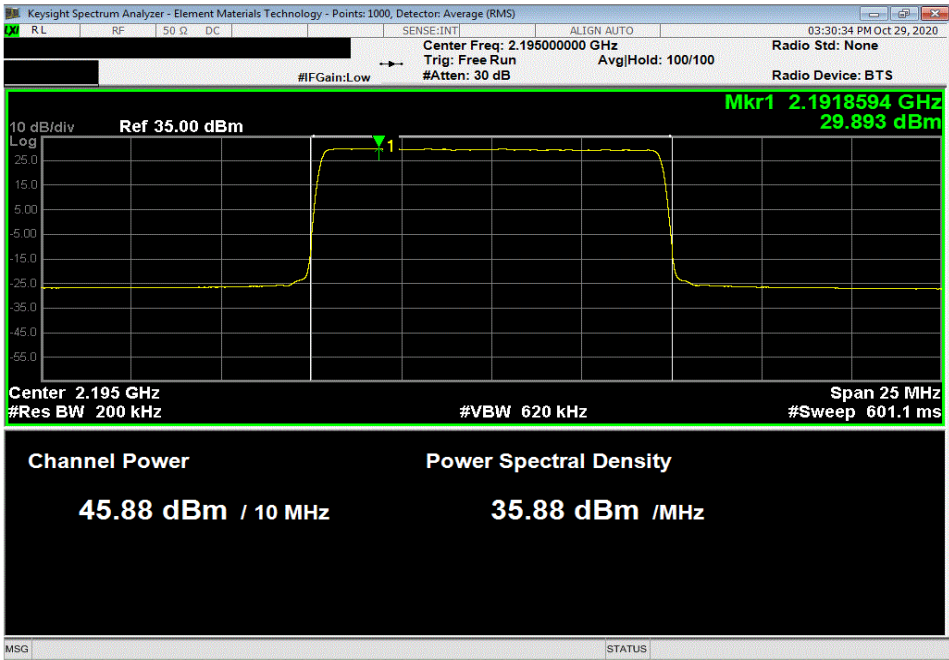


OUTPUT POWER

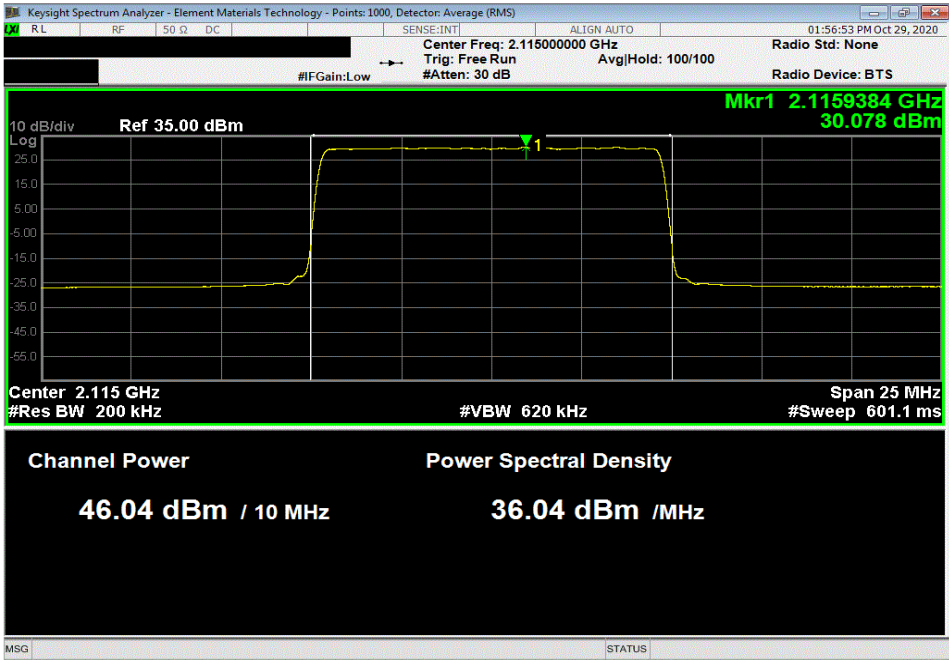


Thru 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 64-QAM Modulation, High Channel 2195 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.877	0	45.9	48.9	51.9	



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth , 256-QAM Modulation, Low Channel 2115 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.04	0	46.0	49.0	52.0	

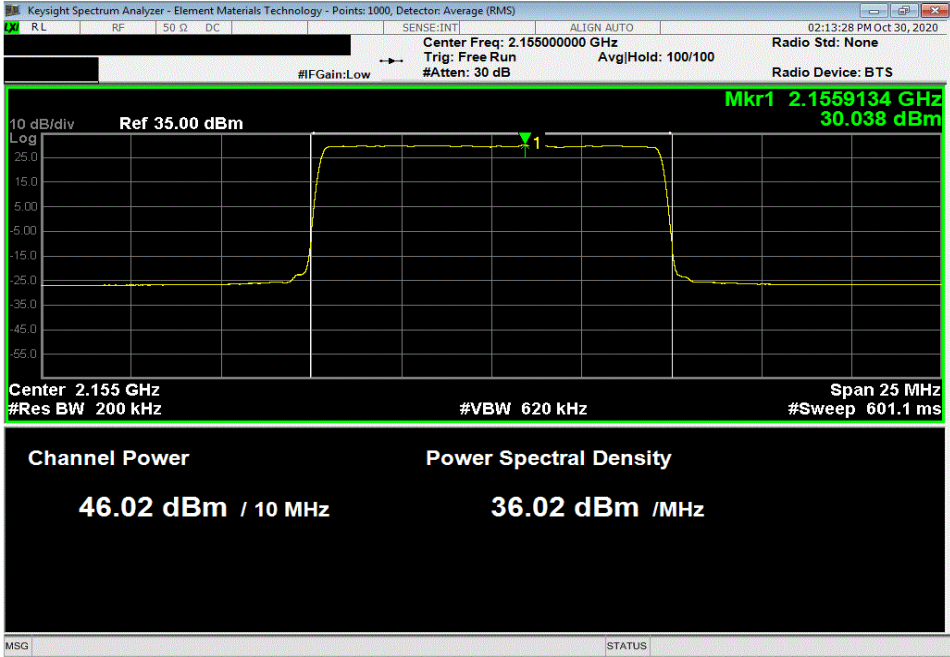


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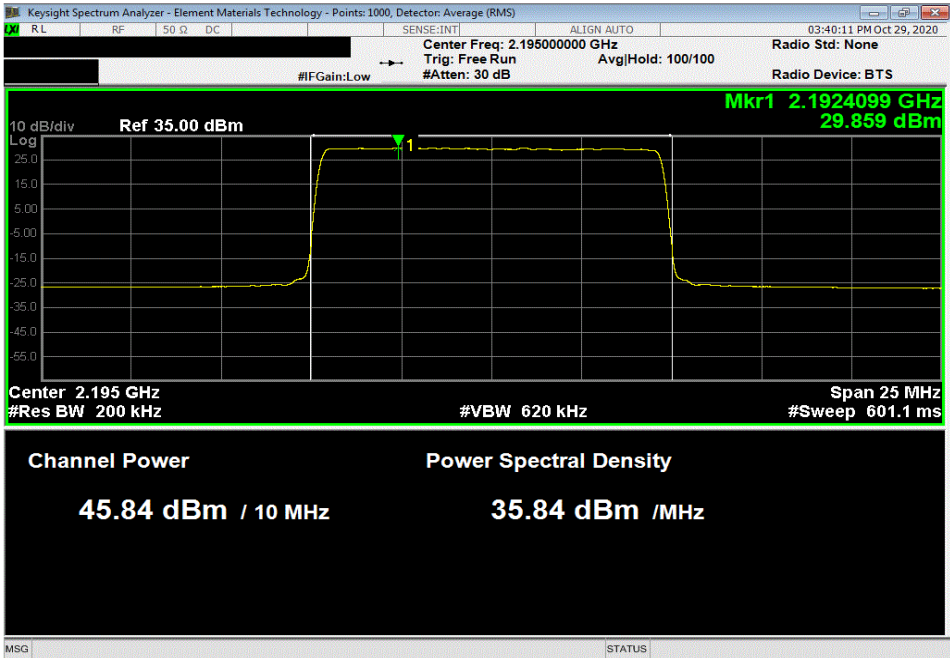


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
46.021	0	46.0	49.0	52.0		



Port 4, Band n66, 2110 MHz - 2200 MHz, 10 MHz Bandwidth, 256-QAM Modulation, High Channel 2195 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
45.842	0	45.8	48.8	51.8		

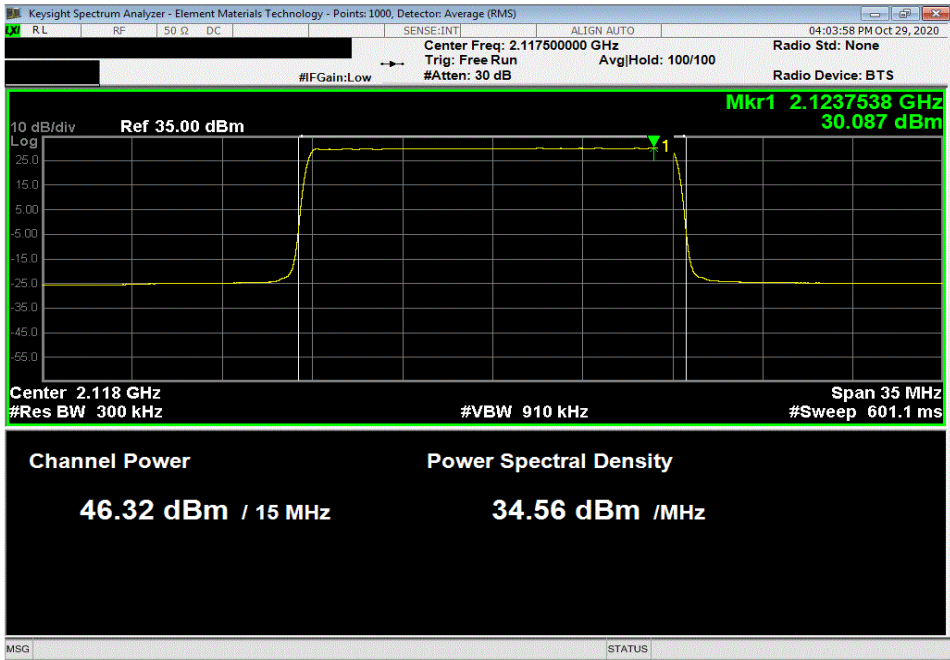


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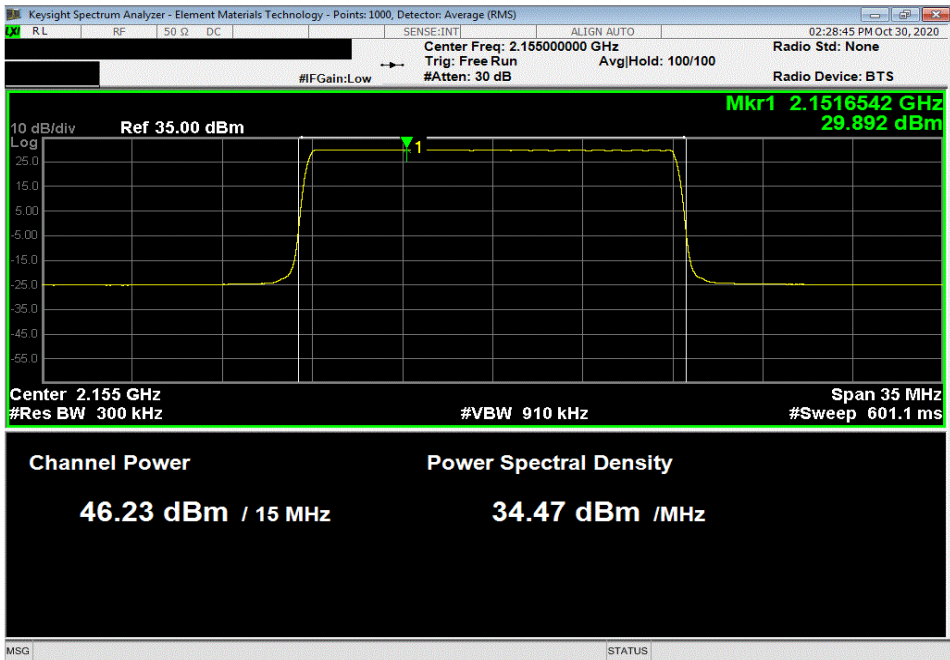


TbTt 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 2117.5 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
46.321	0	46.3	49.3	52.3		



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
46.23	0	46.2	49.2	52.2		

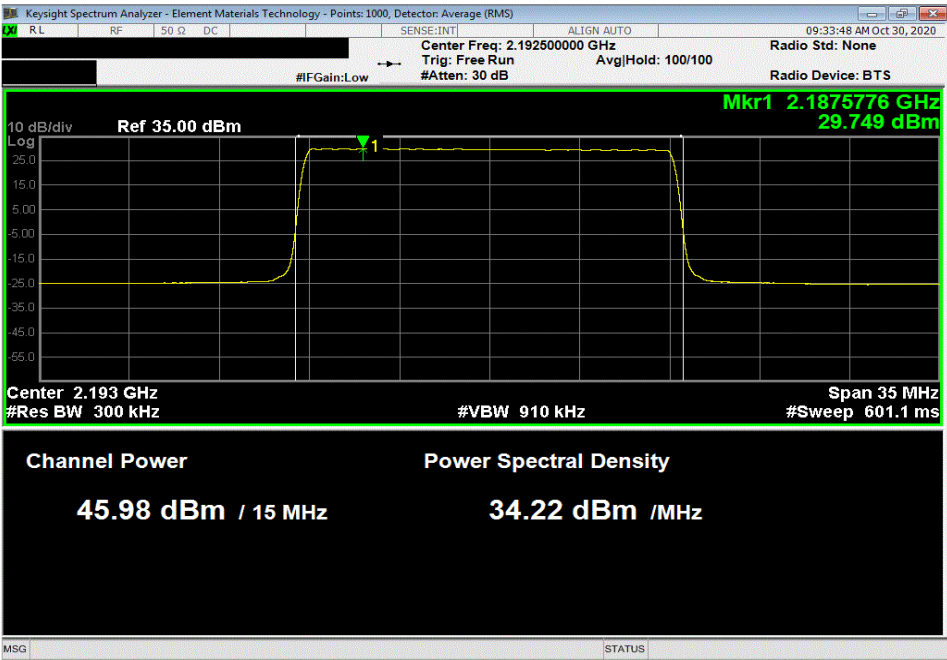


OUTPUT POWER

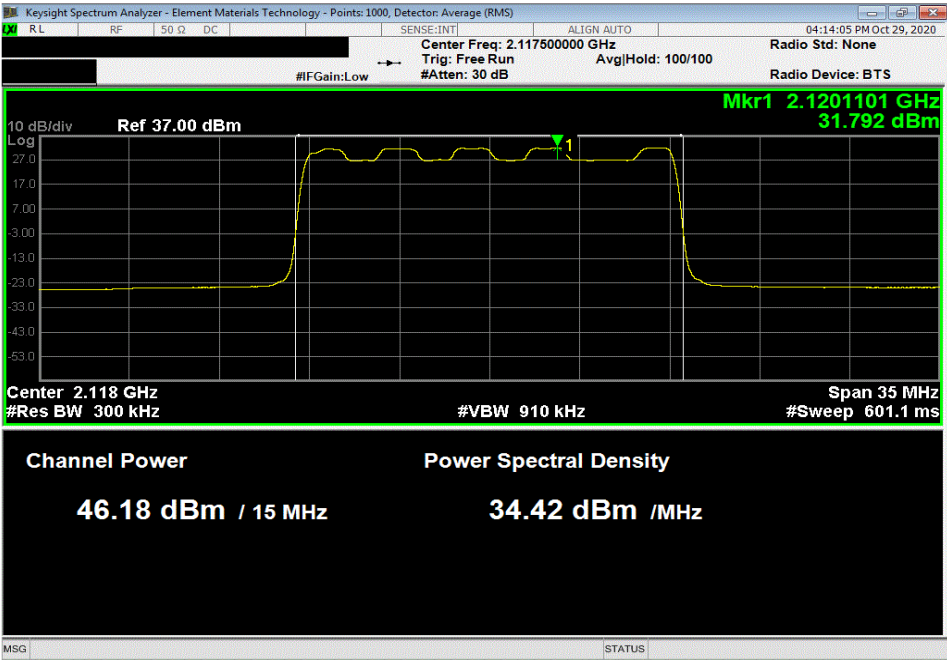


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , QPSK Modulation, High Channel 2192.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.981	0	46.0	49.0	52.0	



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 16-QAM Modulation, Low Channel 2117.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.183	0	46.2	49.2	52.2	

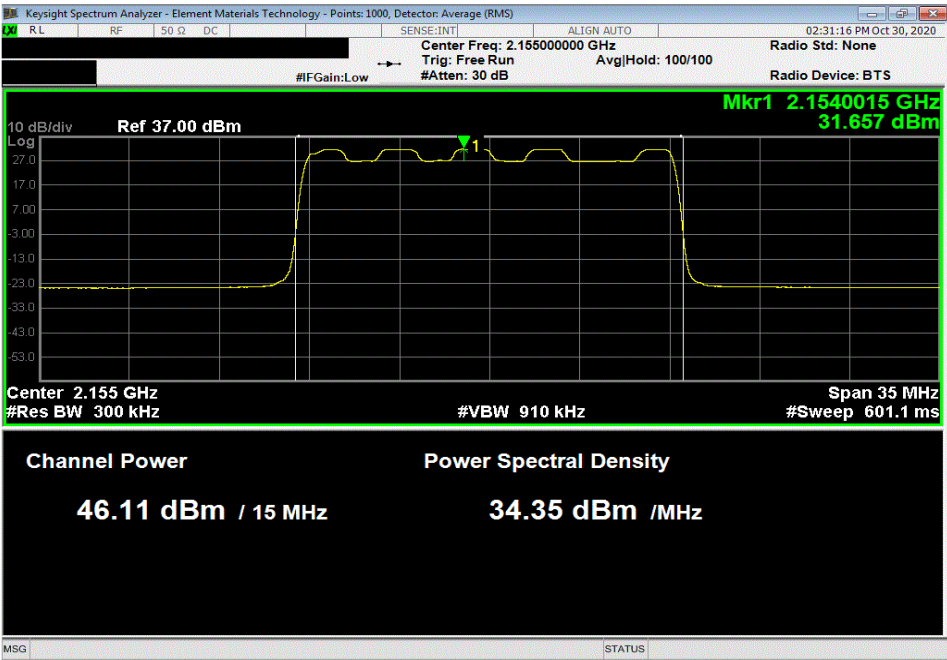


OUTPUT POWER

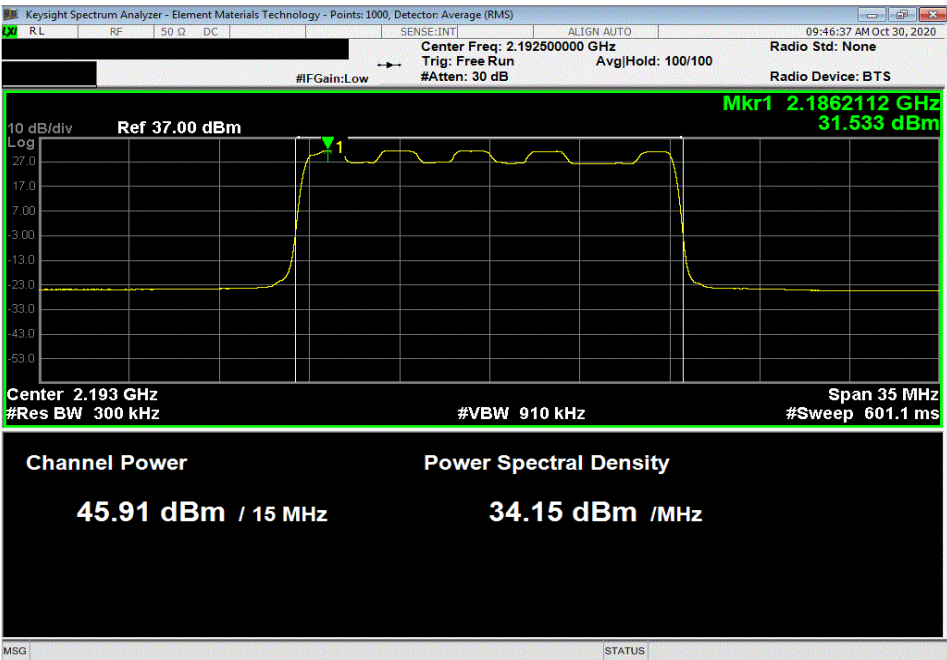


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 16-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.106	0	46.1	49.1	52.1	



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 16-QAM Modulation, High Channel 2192.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.908	0	45.9	48.9	51.9	

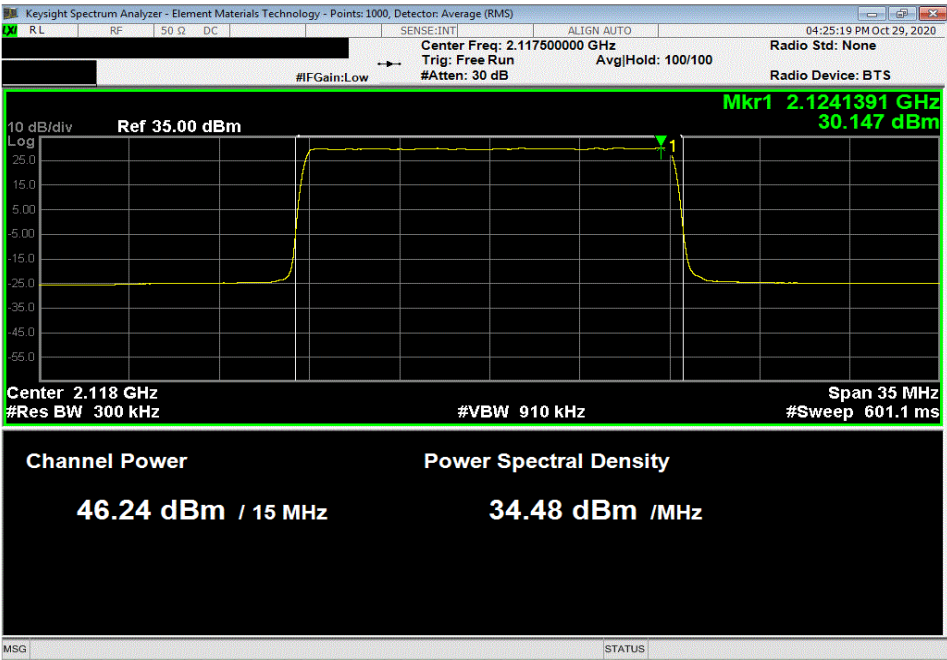


OUTPUT POWER

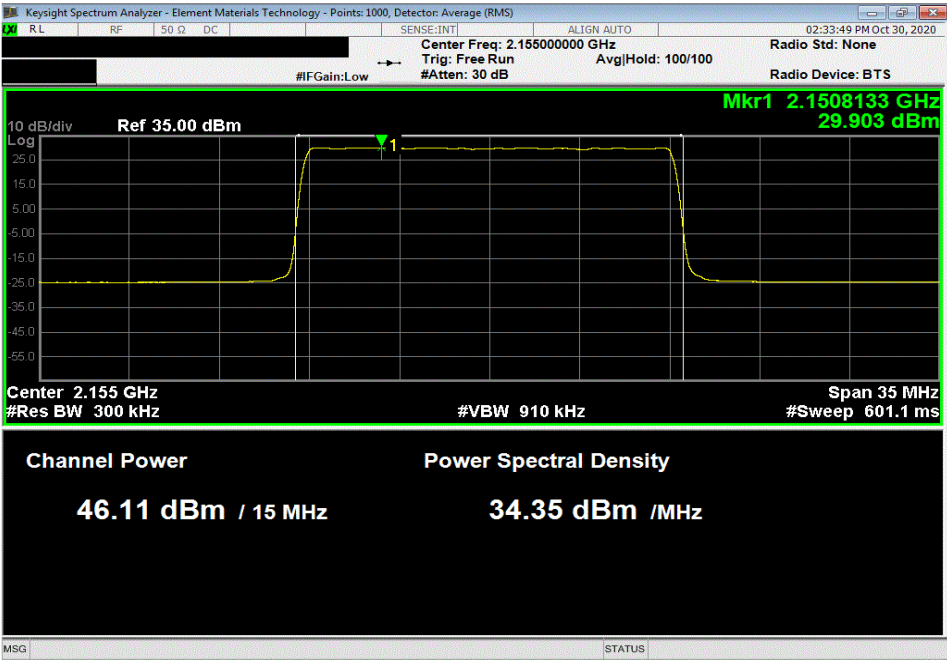


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Low Channel 2117.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.24	0	46.2	49.2	52.2	



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 64-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.108	0	46.1	49.1	52.1	

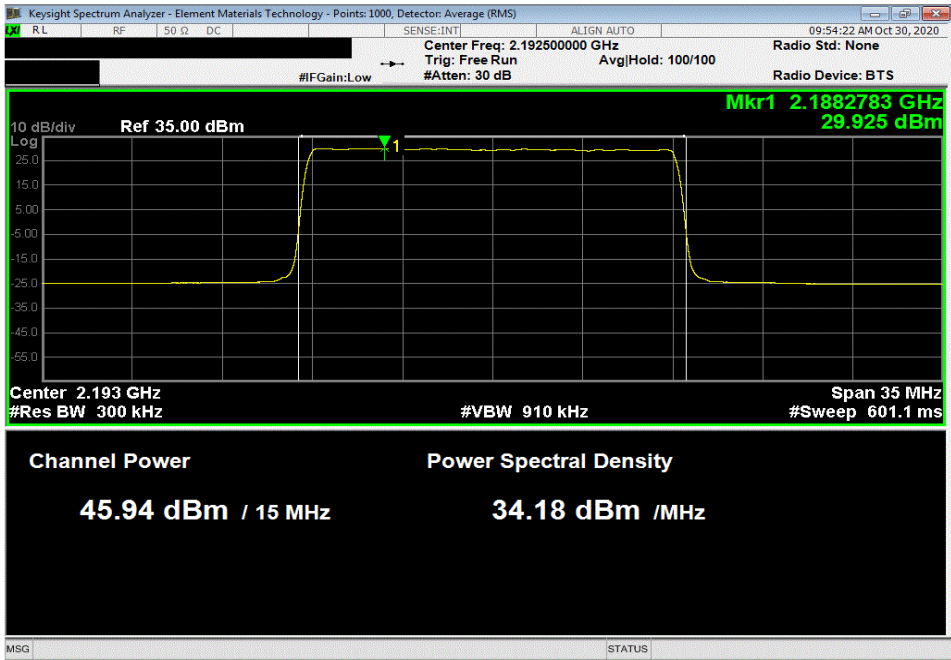


OUTPUT POWER

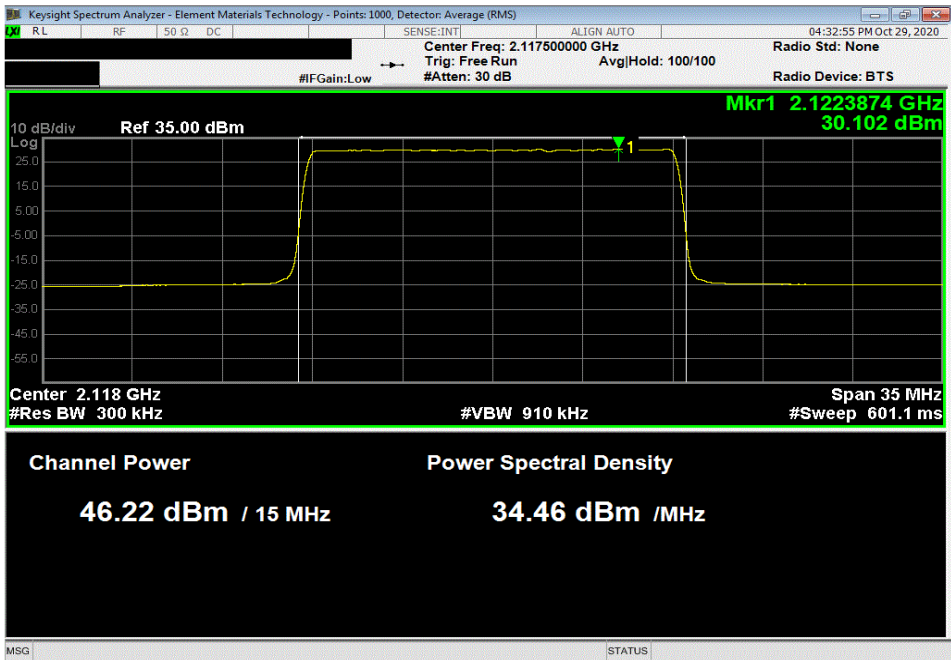


Thy's 2020.10.20.0 BETA XMI 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 64-QAM Modulation, High Channel 2192.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.938	0	45.9	48.9	51.9	



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth , 256-QAM Modulation, Low Channel 2117.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.222	0	46.2	49.2	52.2	

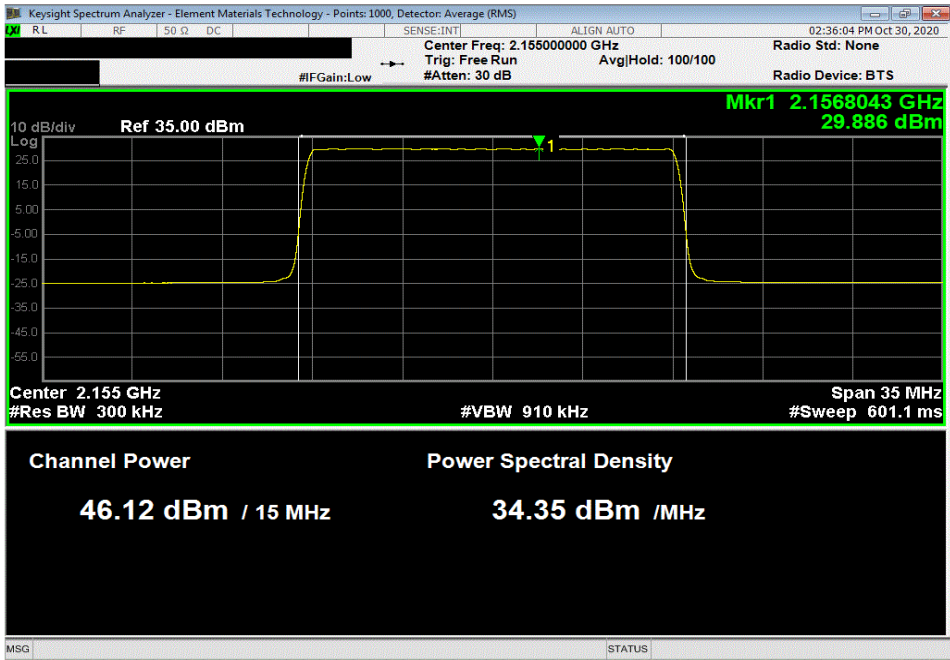


OUTPUT POWER

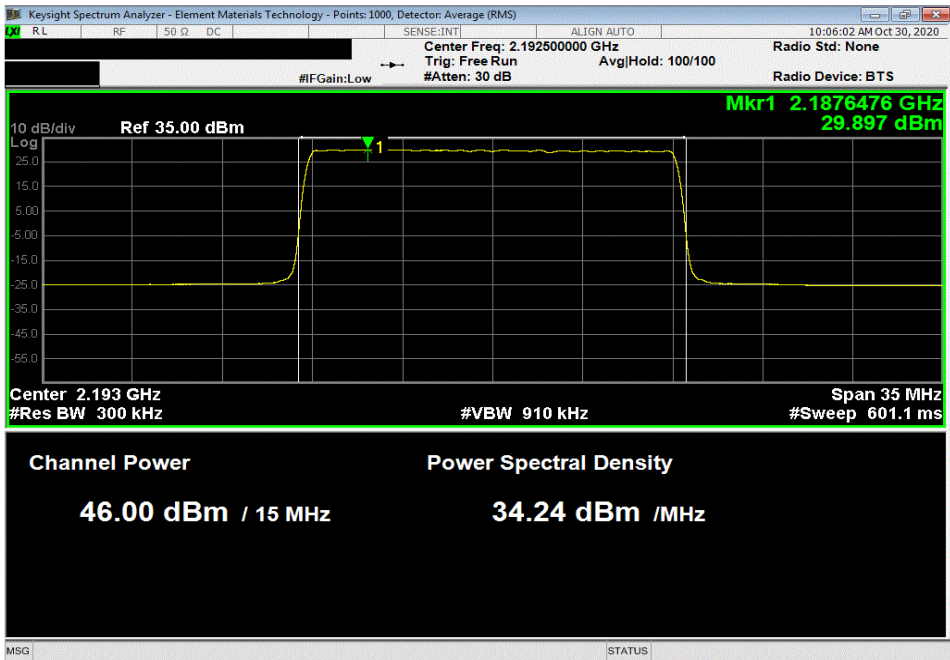


Thru 2020.10.20.0 BETA XMI 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.115	0	46.1	49.1	52.1	



Port 4, Band n66, 2110 MHz - 2200 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 2192.5 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
45.997	0	46.0	49.0	52.0	

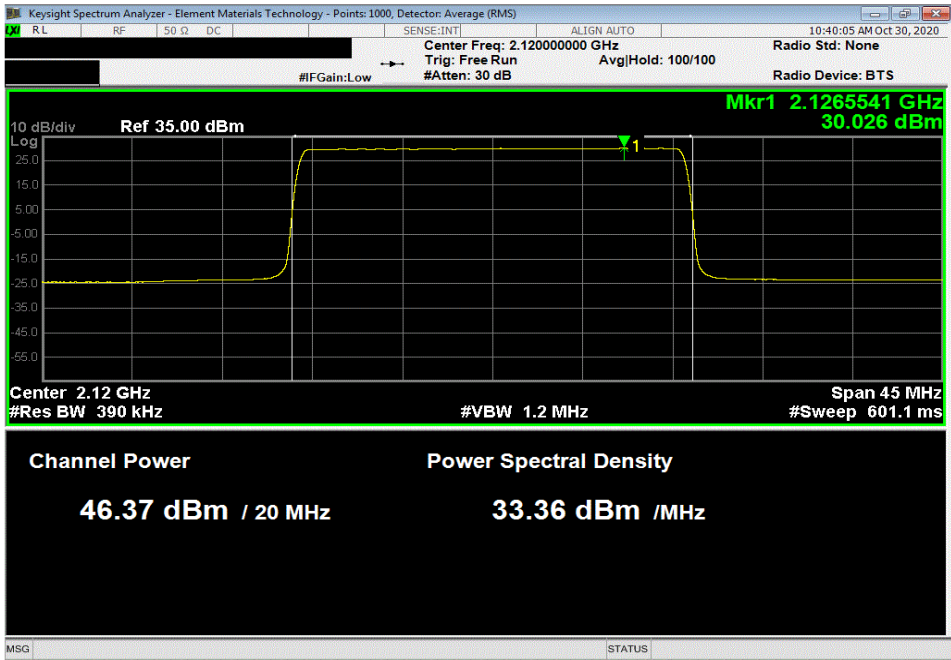


OUTPUT POWER

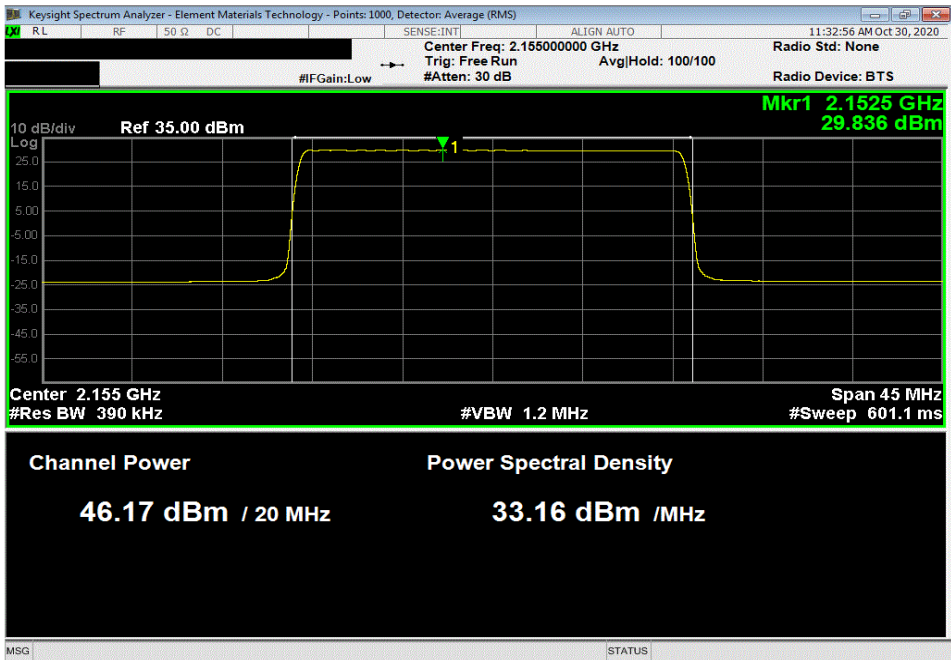


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Low Channel 2120 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.369	0	46.4	49.4	52.4	



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.169	0	46.2	49.2	52.2	

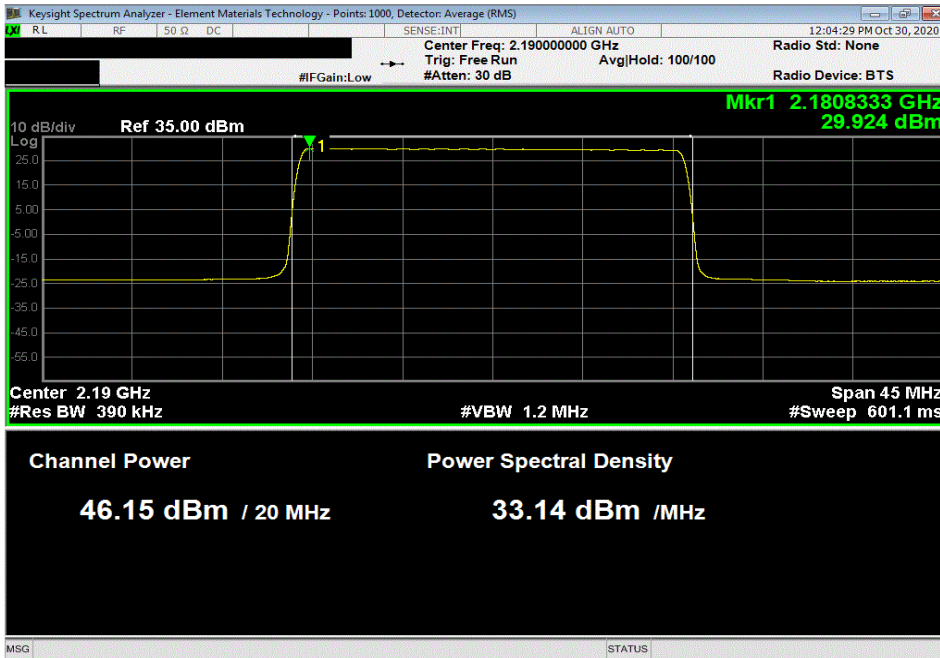


OUTPUT POWER

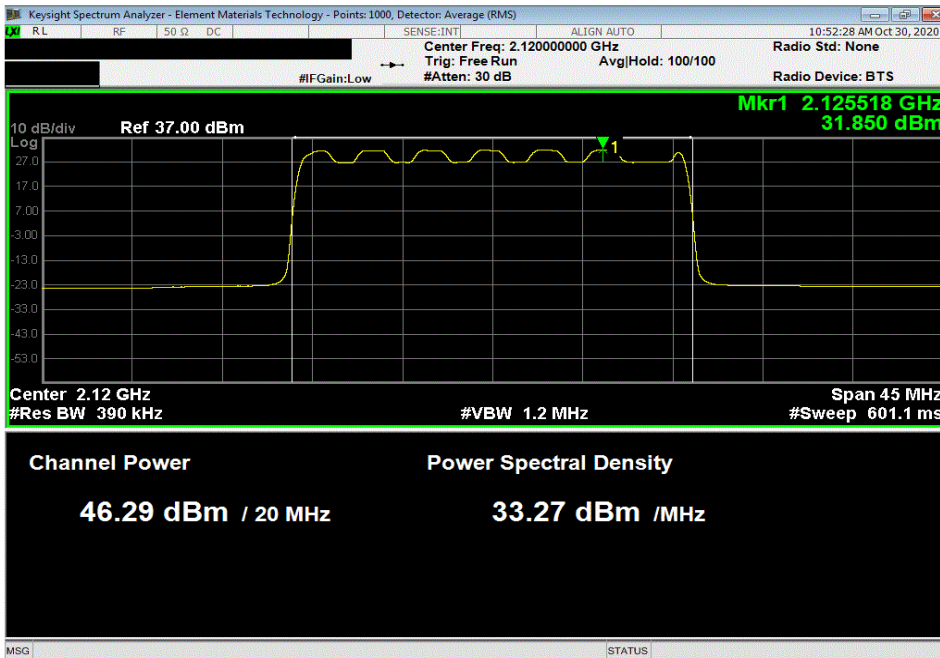


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, QPSK Modulation, High Channel 2190 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.148	0	46.1	49.1	52.1	



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Low Channel 2120 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.285	0	46.3	49.3	52.3	

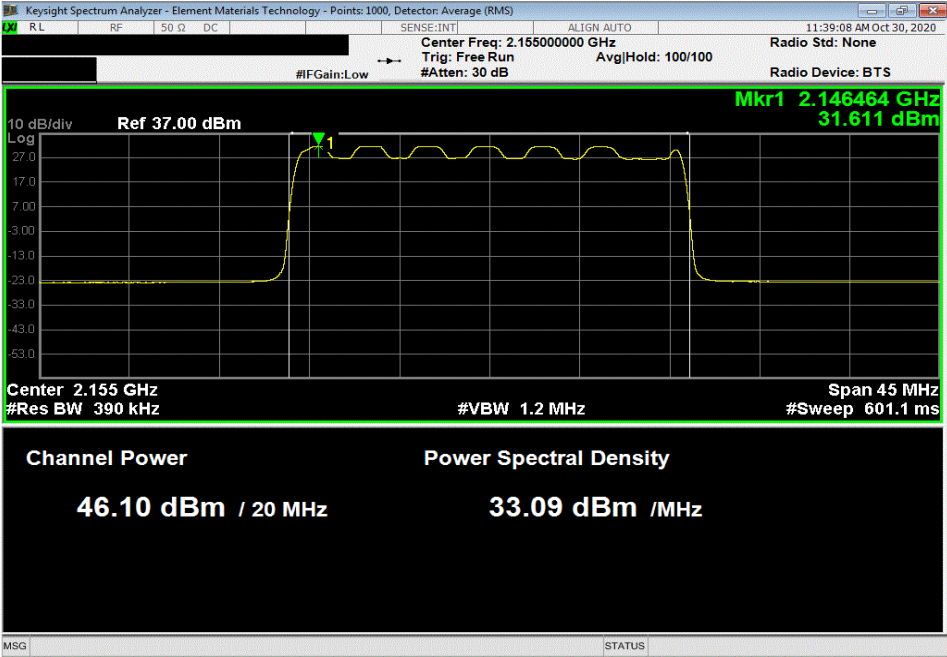


OUTPUT POWER

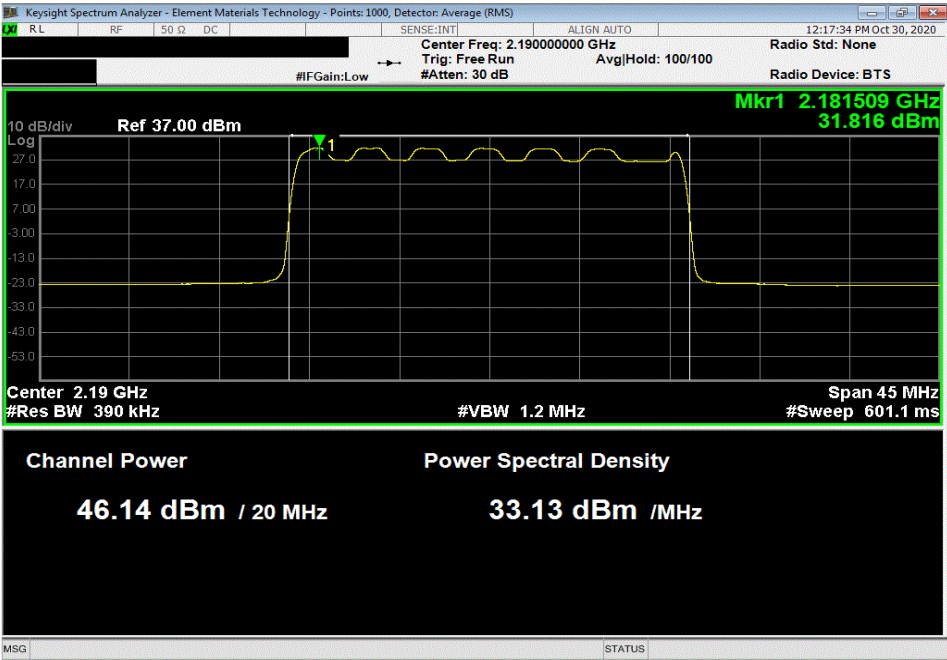


TbTf v 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.099	0	46.1	49.1	52.1	



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 16-QAM Modulation, High Channel 2190 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.136	0	46.1	49.1	52.1	

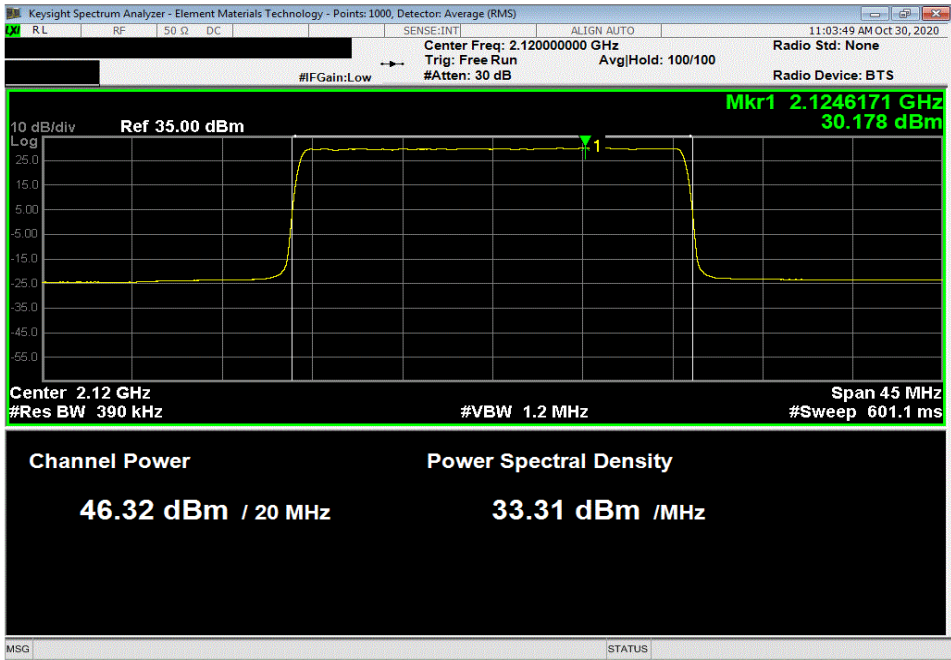


OUTPUT POWER

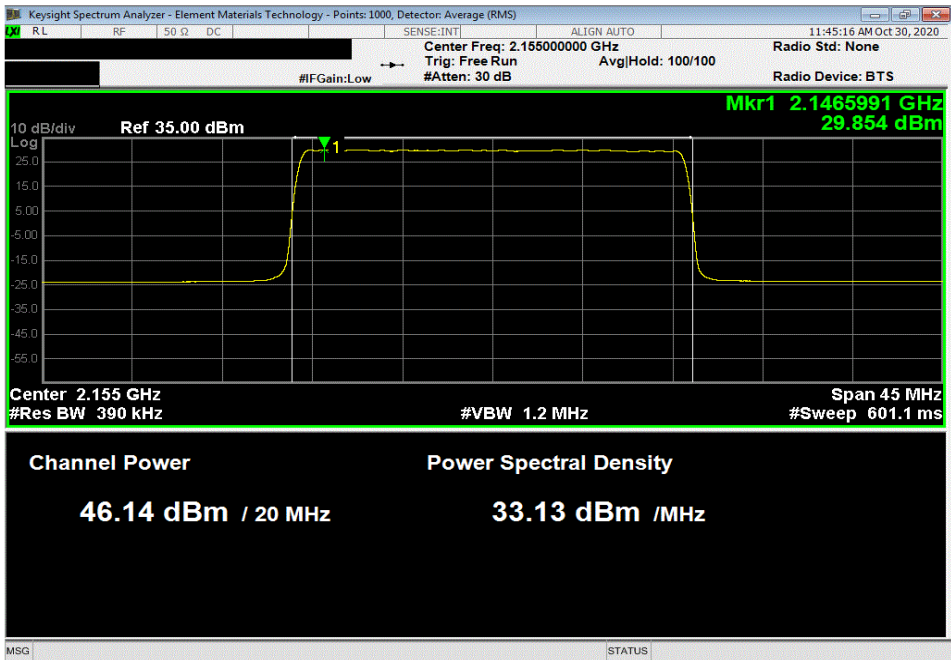


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 2120 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
46.317	0	46.3	49.3	52.3		



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel 2155 MHz						
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)		
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW		
46.14	0	46.1	49.1	52.1		

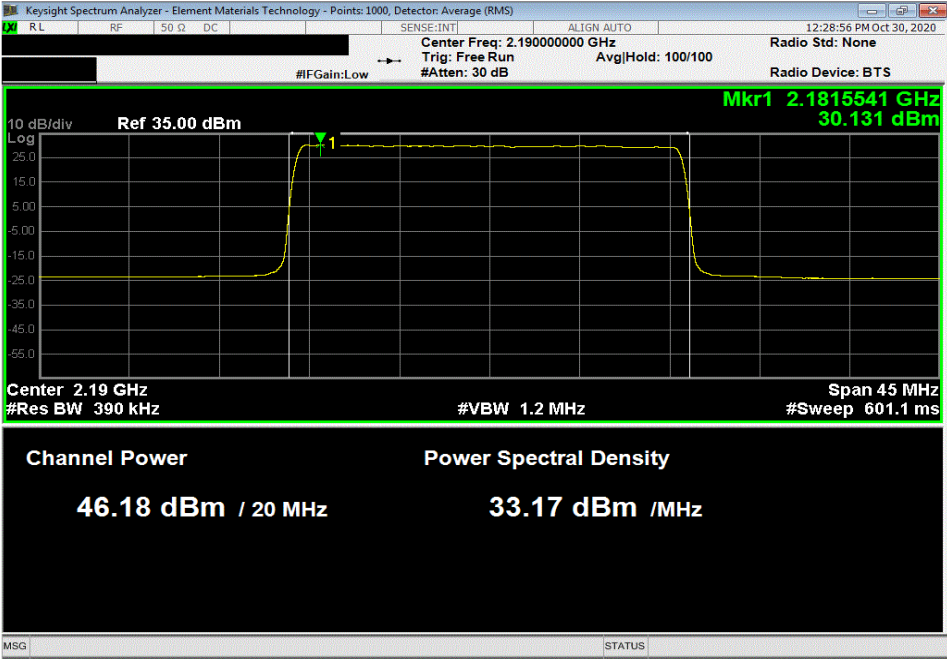


OUTPUT POWER

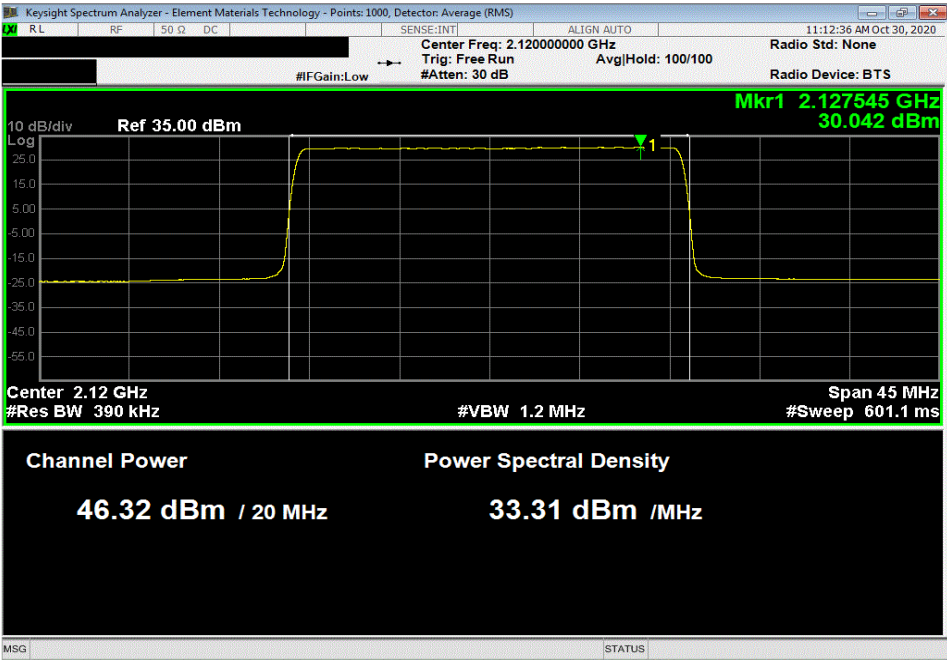


TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 64-QAM Modulation, High Channel 2190 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.184	0	46.2	49.2	52.2	



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 2120 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.318	0	46.3	49.3	52.3	

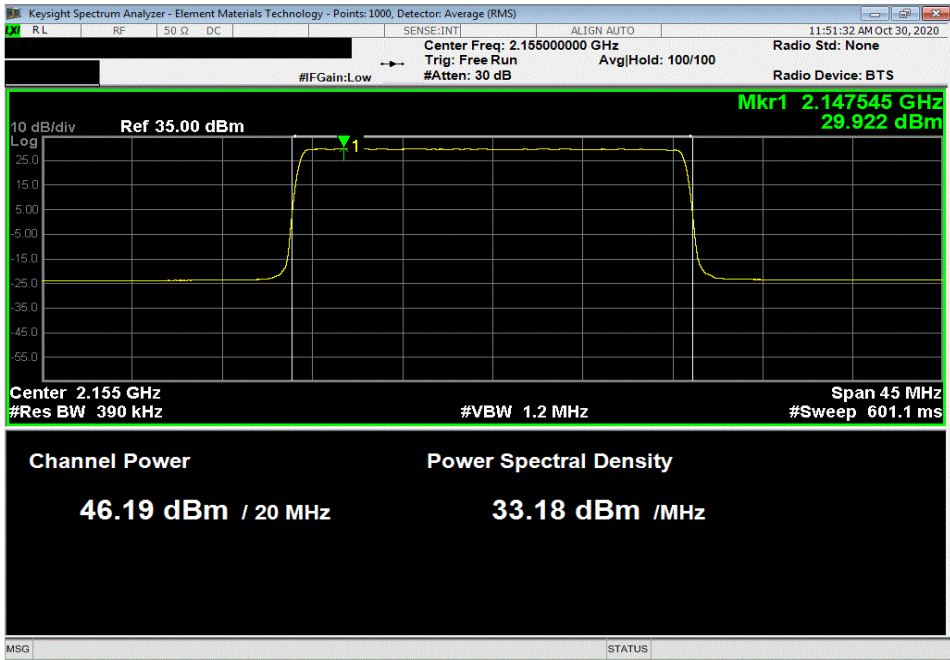


OUTPUT POWER



TbT's 2020.10.20.0 BETA XMM 2020.03.25.0

Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 2155 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.192	0	46.2	49.2	52.2	



Port 4, Band n66, 2110 MHz - 2200 MHz, 20 MHz Bandwidth, 256-QAM Modulation, High Channel 2190 MHz					
Initial Value	Duty Cycle	Single Port	Two Port (2x2 MIMO)	Four Port (4x4 MIMO)	
dBm/Carrier BW		dBm/Carrier BW	dBm/Carrier BW	dBm/Carrier BW	
46.15	0	46.2	49.2	52.2	

