

OUTPUT POWER - BAND n25



element

XMH 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
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.

Per FCC section 24.232(a), the Equivalent Isotropically radiated Power (EIRP) of the transceiver cannot exceed 1640 Watts/MHz.


RF conducted emissions testing was performed only on one port. The testing was performed on the same version of hardware (AHFIG) as the original certification test. The AHFIG antenna ports are essentially electrically identical (the RF power variation between antenna ports is small as shown in the original certification testing) and antenna port 4 was selected to perform the testing under this effort as allowed by ANSI C63.26-2015 paragraph 5.7.2i.

5G NR carrier bandwidths of 5MHz, 10MHz, 15MHz, and 20MHz with QPSK, 16QAM, 64QAM and 256QAM modulation types were verified under this effort. The 5G NR carriers/modulation types for this testing are set up according to 3GPP TS 38.141-1 Test Models and are NR-FR1-TM 1.1 (QPSK modulation type), NR-FR1-TM 3.1 (16QAM modulation type), NR-FR1-TM 3.1 (64QAM modulation type), and NR-FR1-TM 3.1a (256QAM modulation type).

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EUT: AHFIG		Work Order: NOKI0016	
Serial Number: K9191322351		Date: 19-Jun-20	
Customer: Nokia Solutions and Networks		Temperature: 22.2 °C	
Attendees: Mitchell Hill, John Rattanavong		Humidity: 51.9% RH	
Project: None		Barometric Pres.: 1015 mbar	
Tested by: Brandon Hobbs	Power: 54 VDC	Job Site: TX05	
TEST SPECIFICATIONS		Test Method	
FCC 24E:2020		ANSI C63.26:2015	
COMMENTS			
All measurement path losses were accounted for in the reference level offset including any attenuators, filters and DC blocks. The carrier was set to maximum for all testing.			
DEVIATIONS FROM TEST STANDARD			
None			
Configuration #	2	Signature 	
		Initial Power (dBm/OBW)	Duty Cycle Factor (dB)
		Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)
		EIRP Limit (dBm/OBW)	Results

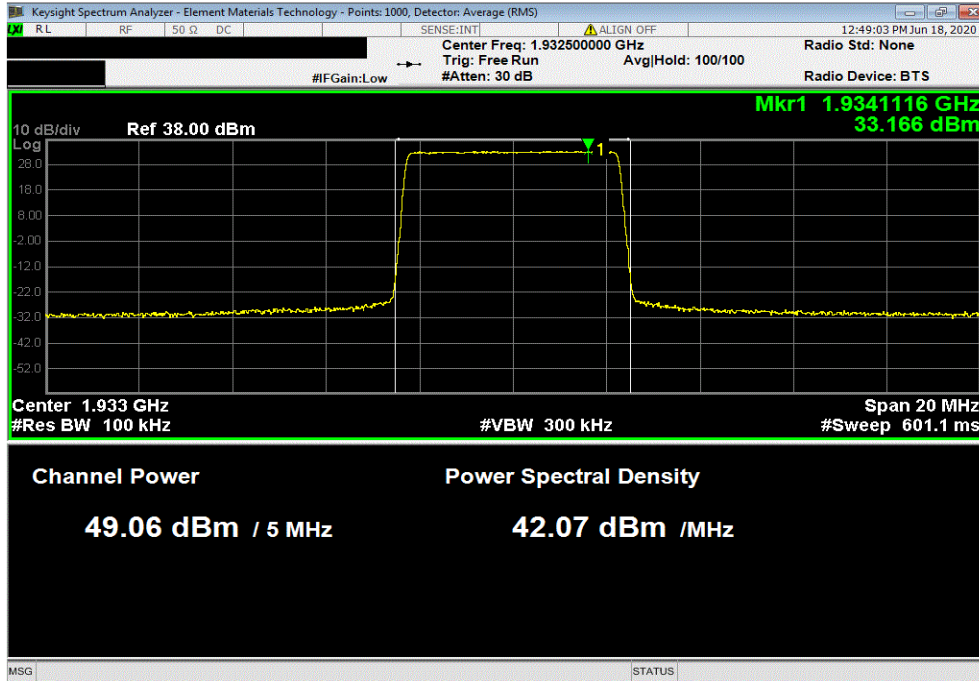
Port 4, Band n25, 1930 MHz - 1995 MHz	Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results
5 MHz Bandwidth						
QPSK Modulation						
Low Channel 1932.5 MHz	49.059	0	No Provided	49.06	62.15	N/A
Mid Channel 1962.5 MHz	49.078	0	No Provided	49.08	62.15	N/A
High Channel 1992.5 MHz	49.021	0	No Provided	49.02	62.15	N/A
16-QAM Modulation						
Low Channel 1932.5 MHz	48.795	0	No Provided	48.80	62.15	N/A
Mid Channel 1962.5 MHz	48.928	0	No Provided	48.93	62.15	N/A
High Channel 1992.5 MHz	48.723	0	No Provided	48.72	62.15	N/A
64-QAM Modulation						
Low Channel 1932.5 MHz	48.947	0	No Provided	48.95	62.15	N/A
Mid Channel 1962.5 MHz	49.106	0	No Provided	49.11	62.15	N/A
High Channel 1992.5 MHz	48.776	0	No Provided	48.78	62.15	N/A
256-QAM Modulation						
Low Channel 1932.5 MHz	48.926	0	No Provided	48.93	62.15	N/A
Mid Channel 1962.5 MHz	49.015	0	No Provided	49.02	62.15	N/A
High Channel 1992.5 MHz	48.658	0	No Provided	48.66	62.15	N/A
10 MHz Bandwidth						
QPSK Modulation						
Low Channel 1935 MHz	49.160	0	No Provided	49.16	62.15	N/A
Mid Channel 1962.5 MHz	49.007	0	No Provided	49.01	62.15	N/A
High Channel 1990 MHz	48.995	0	No Provided	49.00	62.15	N/A
16-QAM Modulation						
Low Channel 1935 MHz	48.980	0	No Provided	48.98	62.15	N/A
Mid Channel 1962.5 MHz	48.869	0	No Provided	48.87	62.15	N/A
High Channel 1990 MHz	48.806	0	No Provided	48.81	62.15	N/A
64-QAM Modulation						
Low Channel 1935 MHz	49.150	0	No Provided	49.15	62.15	N/A
Mid Channel 1962.5 MHz	49.017	0	No Provided	49.02	62.15	N/A
High Channel 1990 MHz	48.936	0	No Provided	48.94	62.15	N/A
256-QAM Modulation						
Low Channel 1935 MHz	49.047	0	No Provided	49.05	62.15	N/A
Mid Channel 1962.5 MHz	48.941	0	No Provided	48.94	62.15	N/A
High Channel 1990 MHz	48.862	0	No Provided	48.86	62.15	N/A
15 MHz Bandwidth						
QPSK Modulation						
Low Channel 1937.5 MHz	49.223	0	No Provided	49.22	62.15	N/A
Mid Channel 1962.5 MHz	48.985	0	No Provided	48.99	62.15	N/A
High Channel 1987.5 MHz	49.077	0	No Provided	49.08	62.15	N/A
16-QAM Modulation						
Low Channel 1937.5 MHz	49.111	0	No Provided	49.11	62.15	N/A
Mid Channel 1962.5 MHz	48.916	0	No Provided	48.92	62.15	N/A
High Channel 1987.5 MHz	48.927	0	No Provided	48.93	62.15	N/A
64-QAM Modulation						
Low Channel 1937.5 MHz	49.207	0	No Provided	49.21	62.15	N/A
Mid Channel 1962.5 MHz	49.010	0	No Provided	49.01	62.15	N/A
High Channel 1987.5 MHz	48.981	0	No Provided	48.98	62.15	N/A
256-QAM Modulation						
Low Channel 1937.5 MHz	49.186	0	No Provided	49.19	62.15	N/A
Mid Channel 1962.5 MHz	48.989	0	No Provided	48.99	62.15	N/A
High Channel 1987.5 MHz	48.984	0	No Provided	48.98	62.15	N/A
20 MHz Bandwidth						
QPSK Modulation						
Low Channel 1940 MHz	49.270	0	No Provided	49.27	62.15	N/A
Mid Channel 1962.5 MHz	49.111	0	No Provided	49.11	62.15	N/A
High Channel 1985 MHz	49.122	0	No Provided	49.12	62.15	N/A
16-QAM Modulation						
Low Channel 1940 MHz	49.186	0	No Provided	49.19	62.15	N/A
Mid Channel 1962.5 MHz	49.051	0	No Provided	49.05	62.15	N/A
High Channel 1985 MHz	49.025	0	No Provided	49.03	62.15	N/A
64-QAM Modulation						
Low Channel 1940 MHz	49.244	0	No Provided	49.24	62.15	N/A
Mid Channel 1962.5 MHz	49.119	0	No Provided	49.12	62.15	N/A
High Channel 1985 MHz	49.076	0	No Provided	49.08	62.15	N/A
256-QAM Modulation						
Low Channel 1940 MHz	49.317	0	No Provided	49.32	62.15	N/A
Mid Channel 1962.5 MHz	49.057	0	No Provided	49.06	62.15	N/A
High Channel 1985 MHz	49.087	0	No Provided	49.09	62.15	N/A

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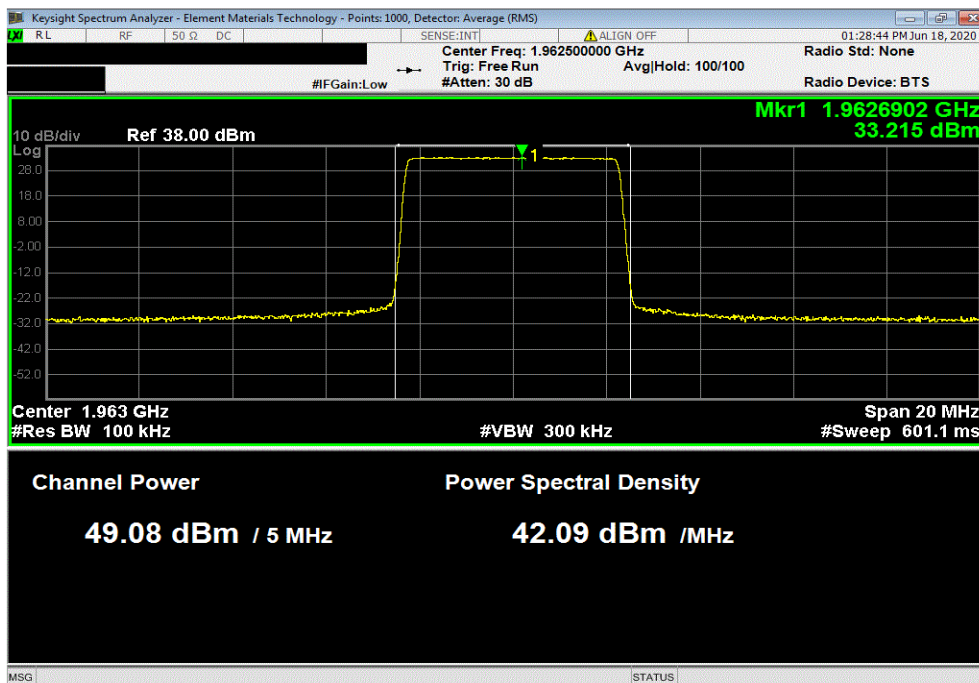


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Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, QPSK Modulation, Low Channel 1932.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.059	0	No Provided	49.1	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.078	0	No Provided	49.1	62.15	N/A	

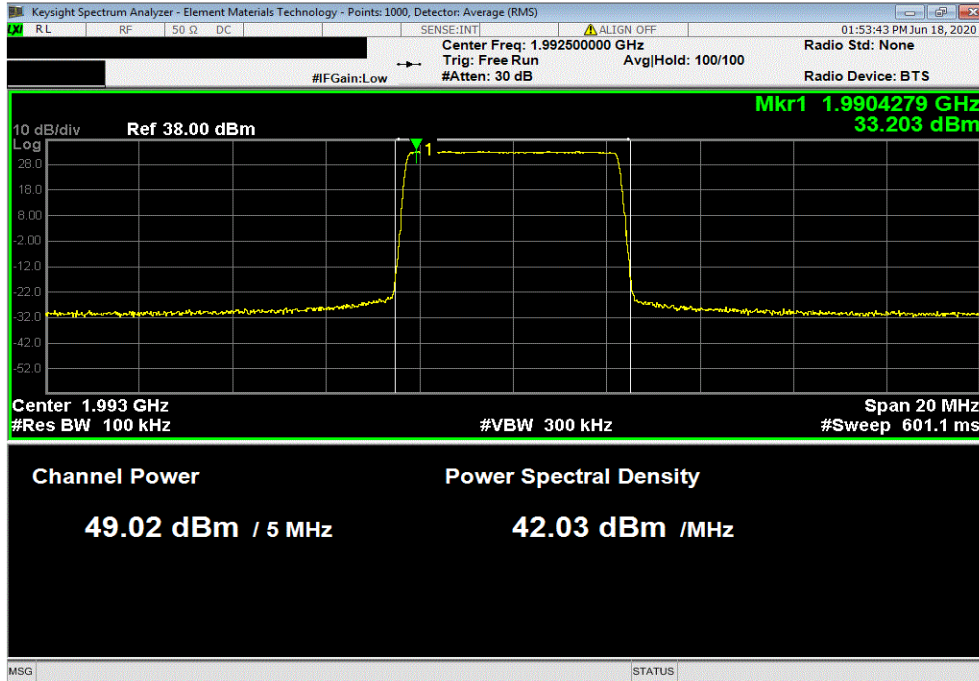


OUTPUT POWER - BAND n25

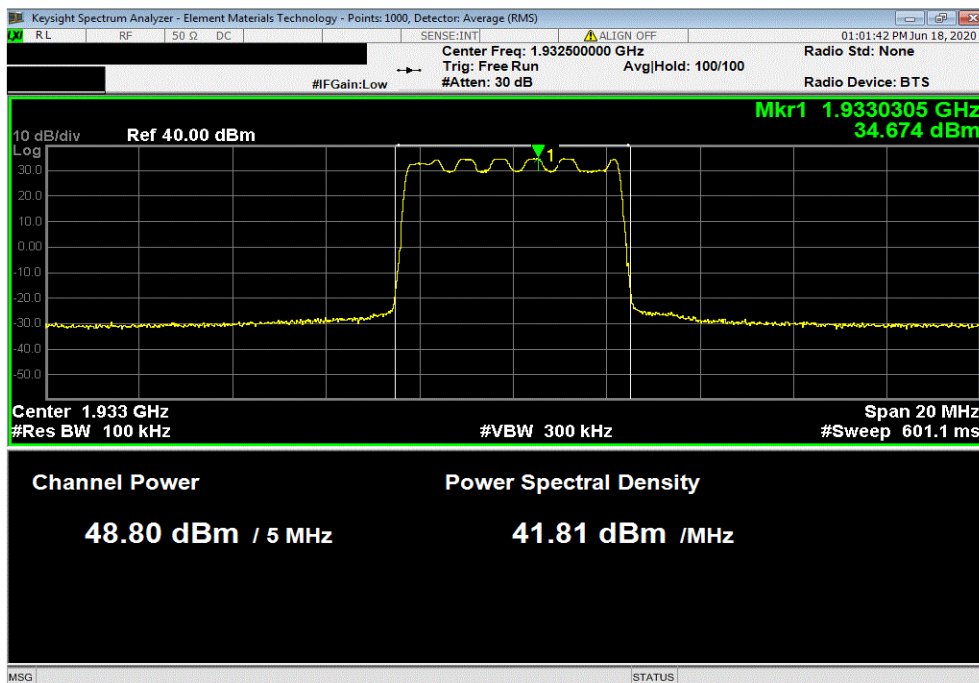


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Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, QPSK Modulation, High Channel 1992.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.021	0	No Provided	49.0	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 16-QAM Modulation , Low Channel 1932.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.795	0	No Provided	48.8	62.15	N/A	

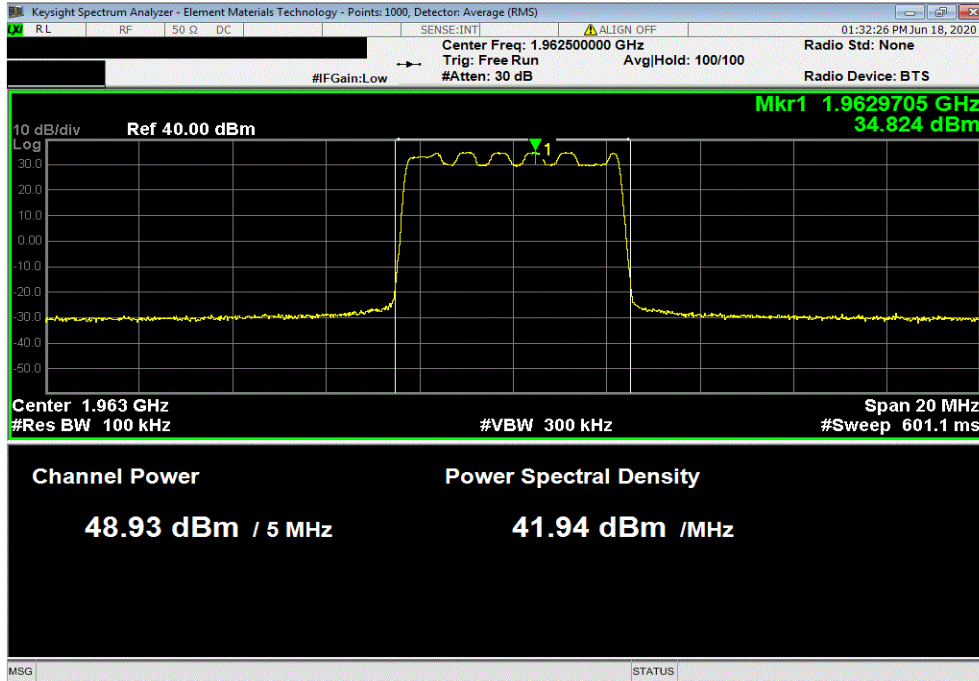


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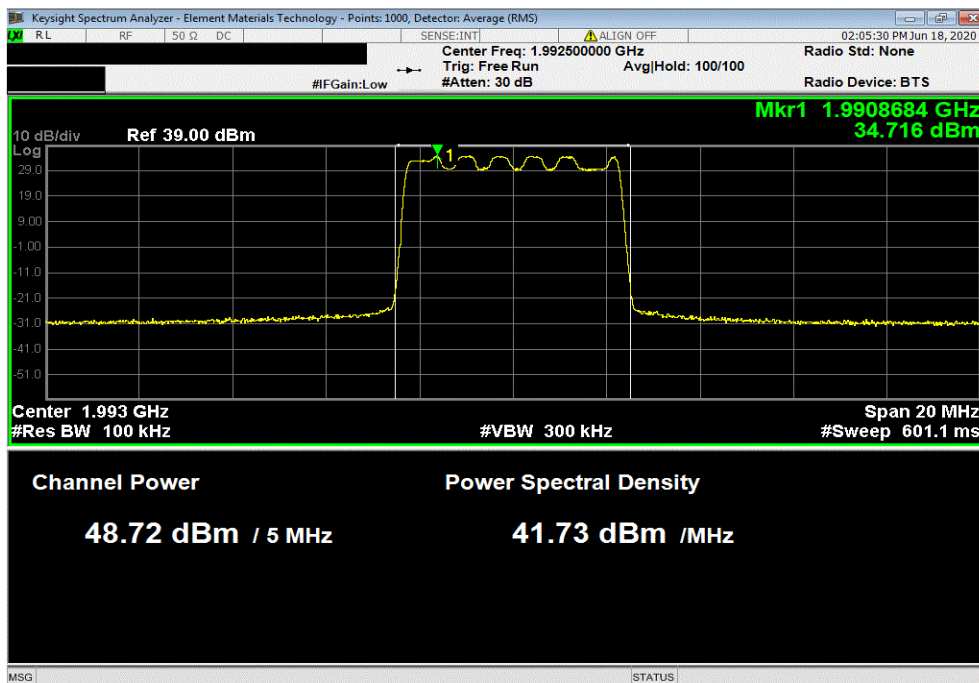


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Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 16-QAM Modulation , Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.928	0	No Provided	48.9	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 16-QAM Modulation , High Channel 1992.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.723	0	No Provided	48.7	62.15	N/A	

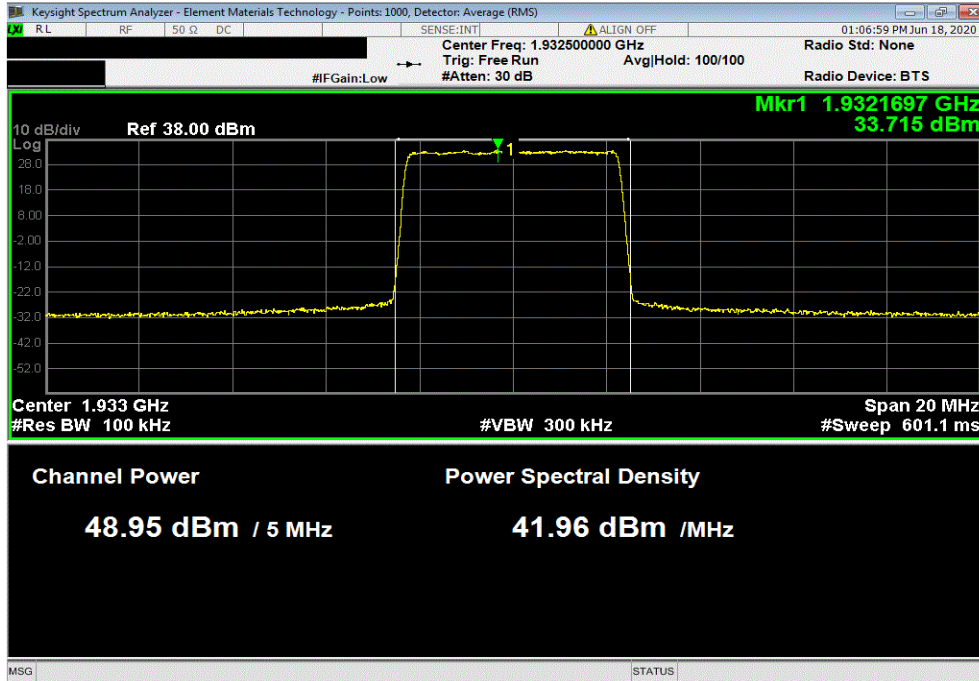


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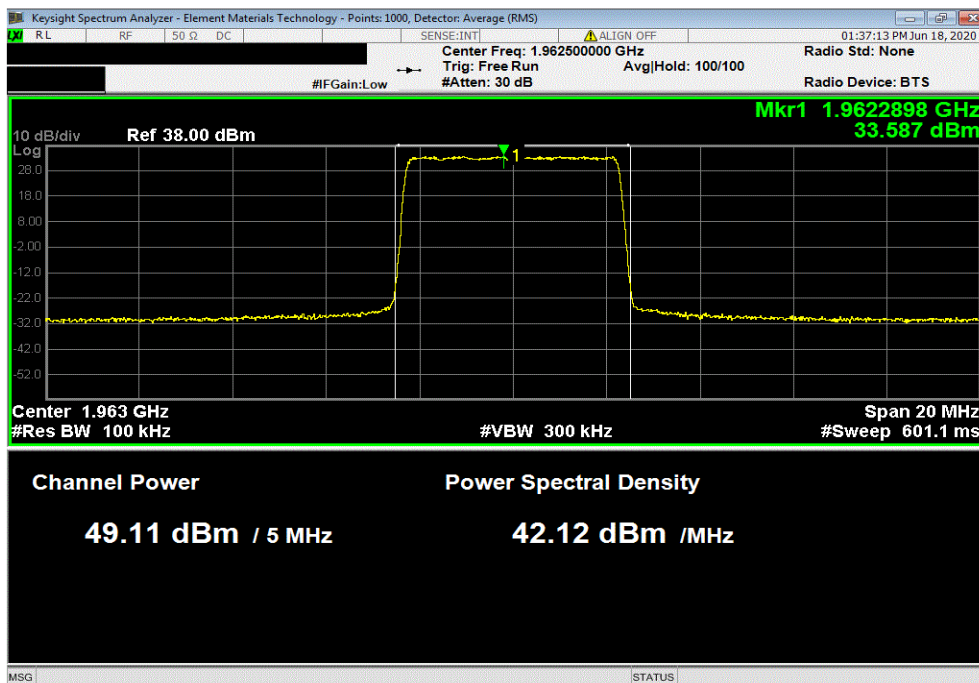


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Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Low Channel 1932.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.947	0	No Provided	48.9	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.106	0	No Provided	49.1	62.15	N/A	

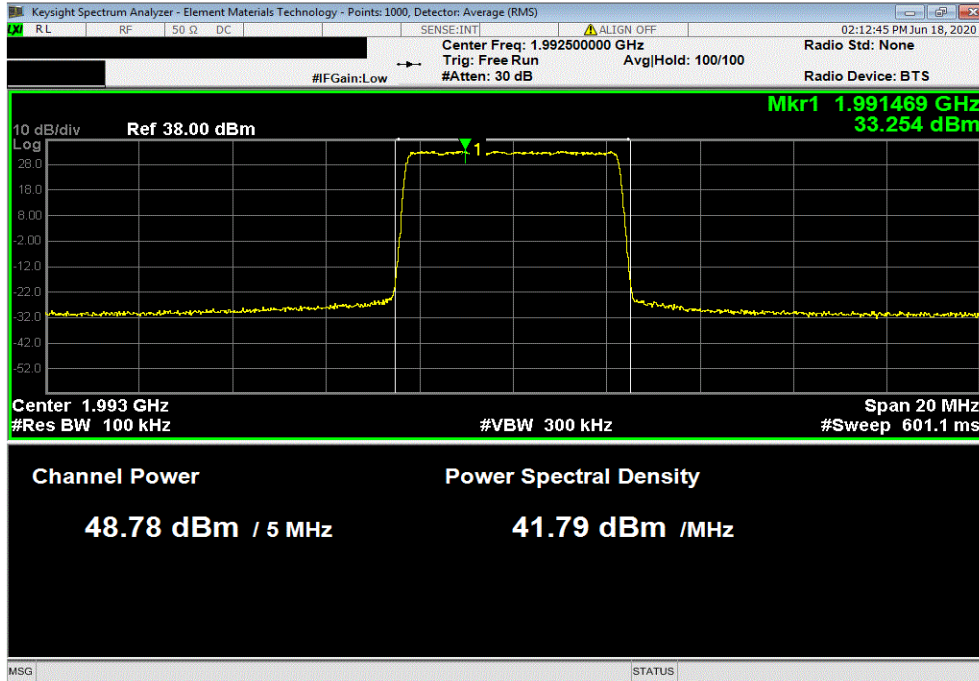


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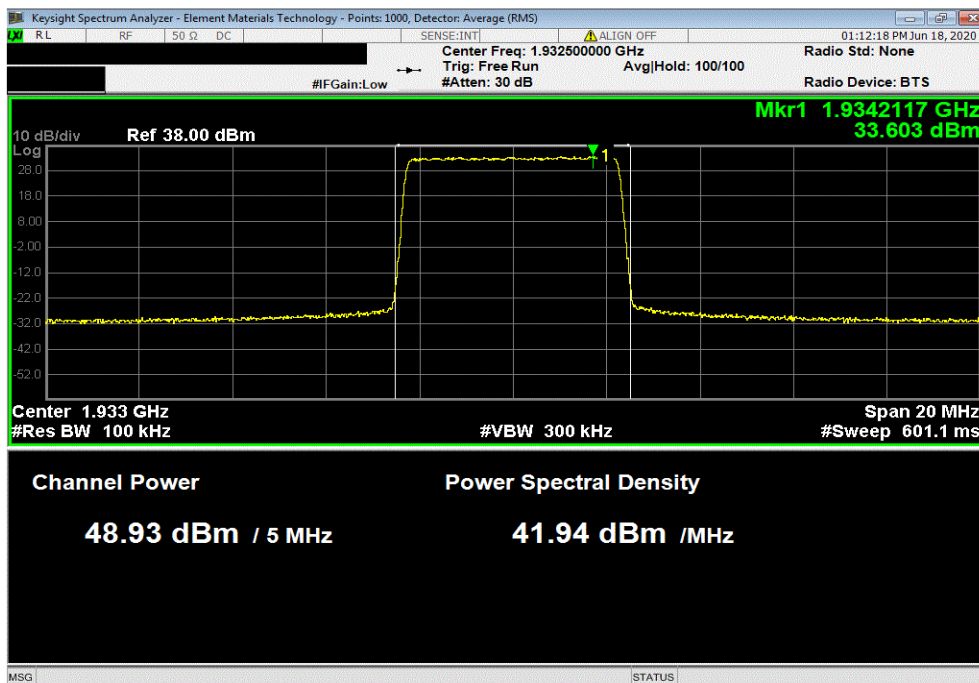


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Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 64-QAM Modulation, High Channel 1992.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.776	0	No Provided	48.8	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 256-QAM Modulation, Low Channel 1932.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.926	0	No Provided	48.9	62.15	N/A	

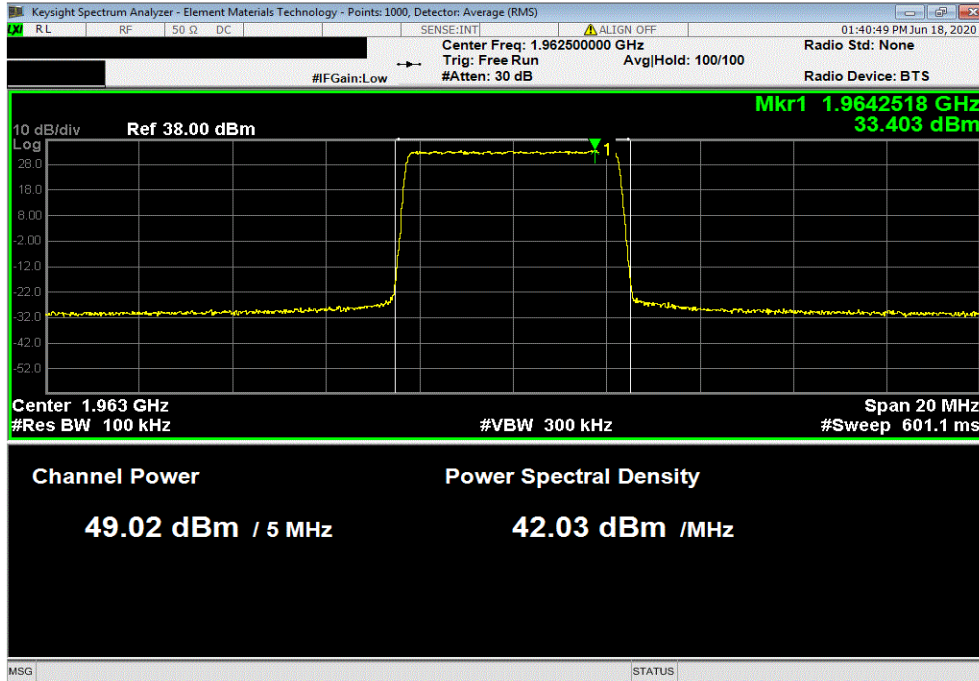


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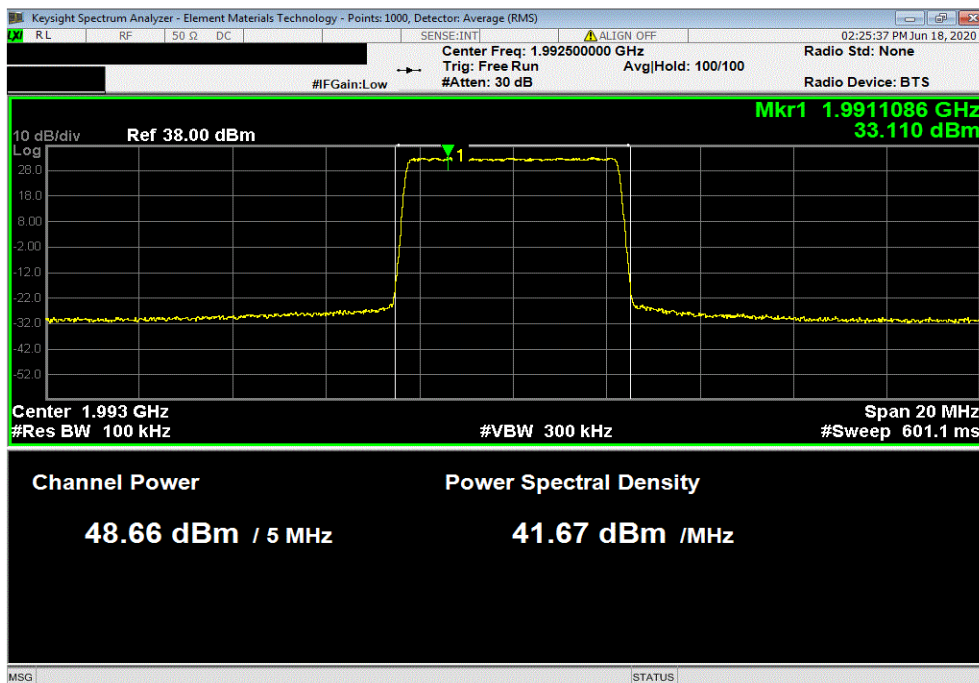


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Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.015	0	No Provided	49.0	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 5 MHz Bandwidth, 256-QAM Modulation, High Channel 1992.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.658	0	No Provided	48.7	62.15	N/A	

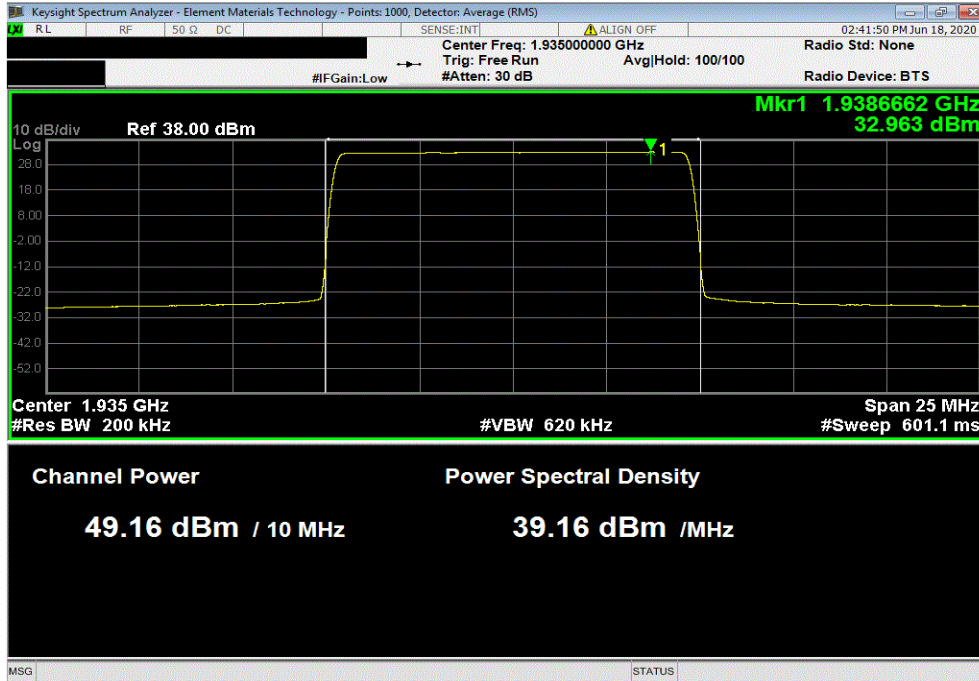


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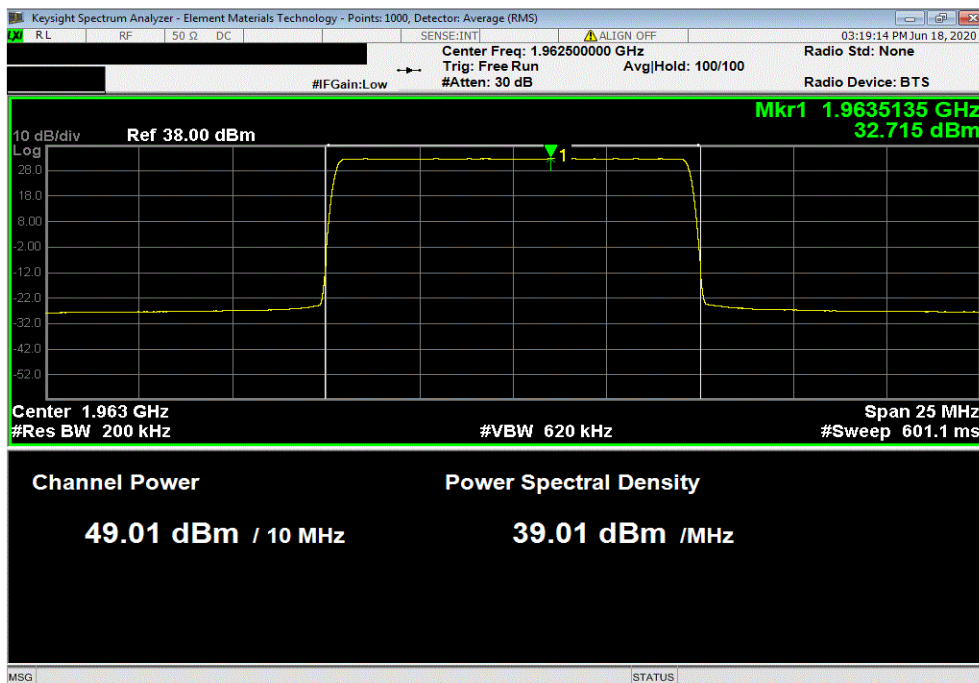


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Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, QPSK Modulation, Low Channel 1935 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.16	0	No Provided	49.2	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.007	0	No Provided	49.0	62.15	N/A	

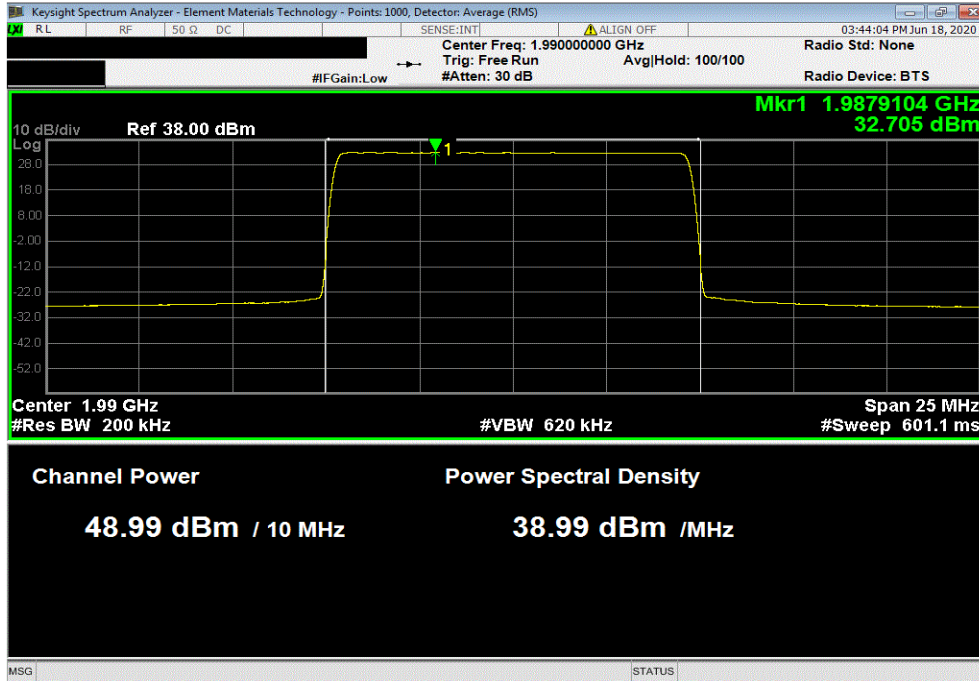


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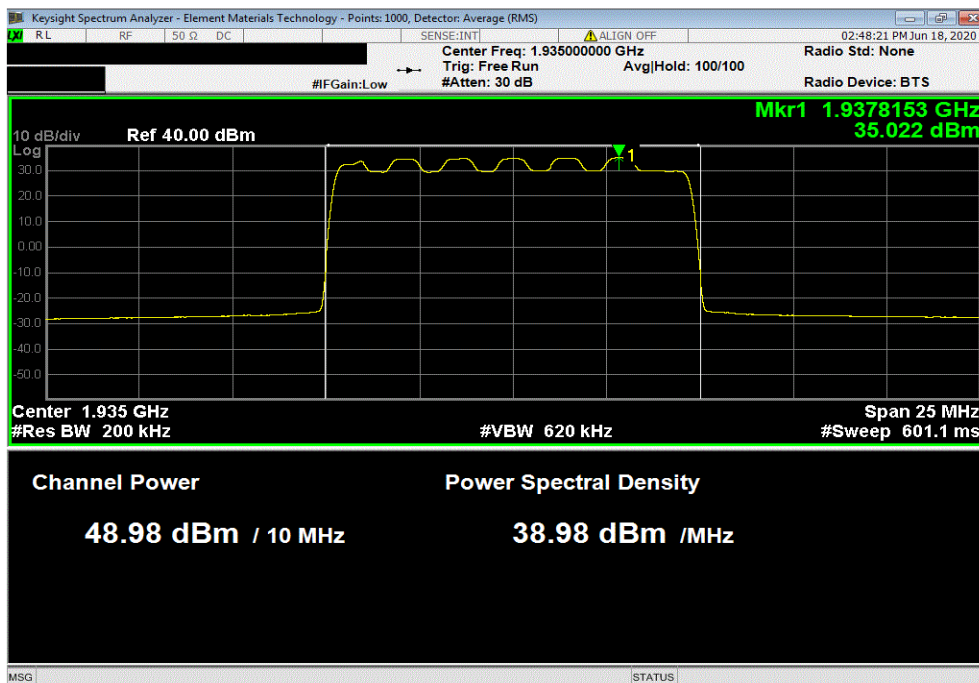


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Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, QPSK Modulation, High Channel 1990 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.995	0	No Provided	49.0	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 16-QAM Modulation , Low Channel 1935 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.98	0	No Provided	49.0	62.15	N/A	

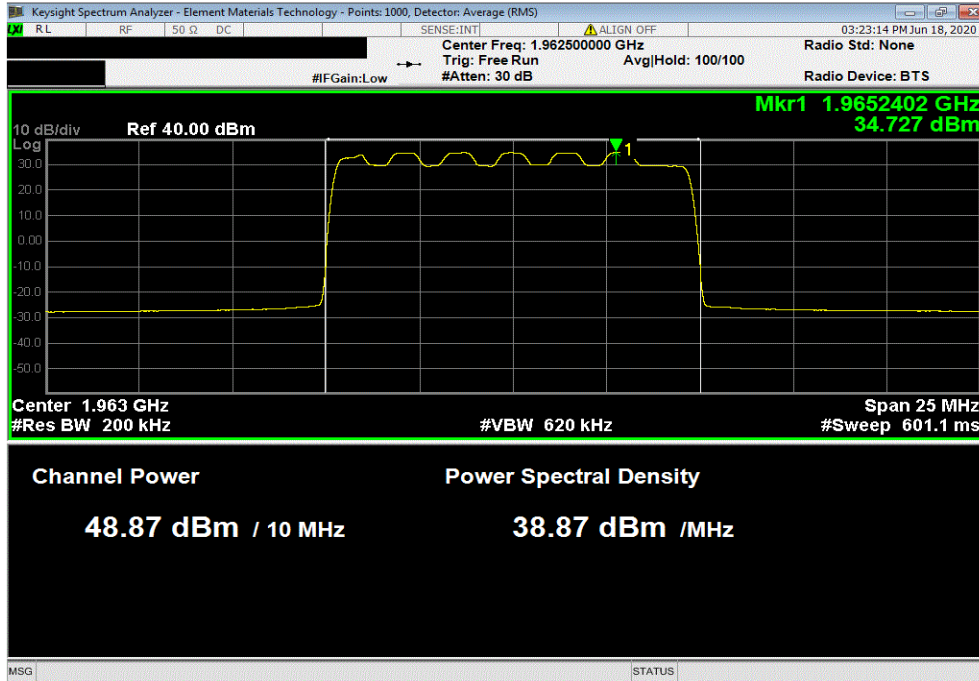


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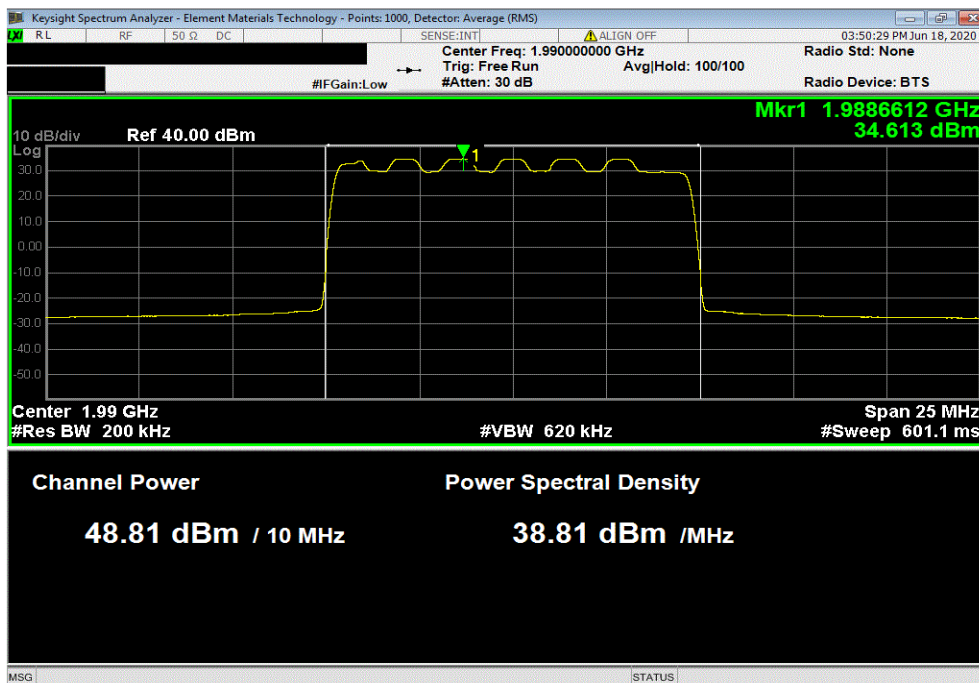


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Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 16-QAM Modulation , Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.869	0	No Provided	48.9	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 16-QAM Modulation , High Channel 1990 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.806	0	No Provided	48.8	62.15	N/A	

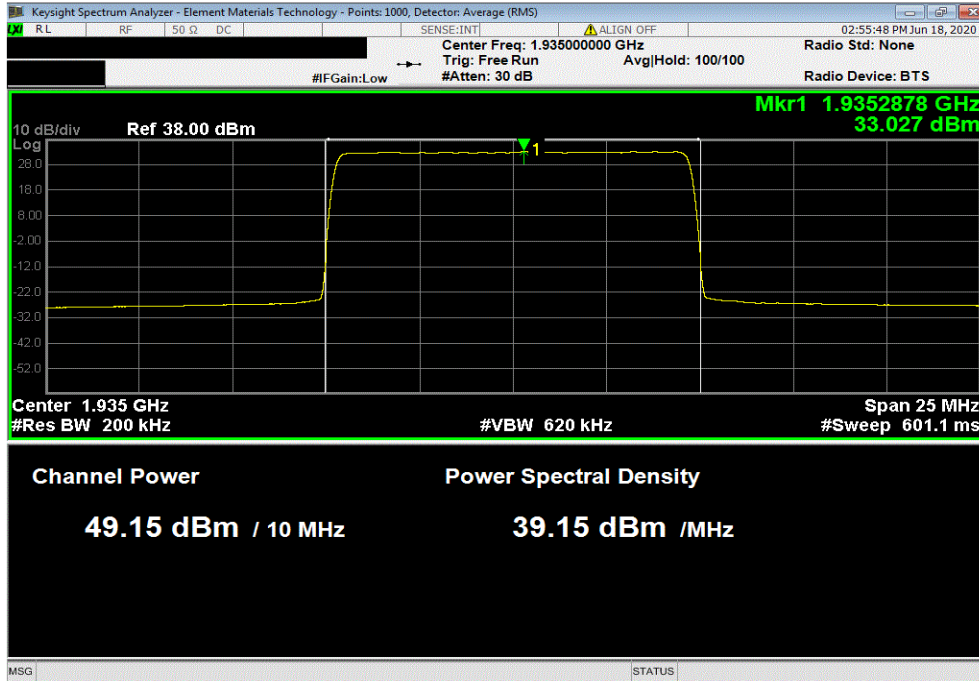


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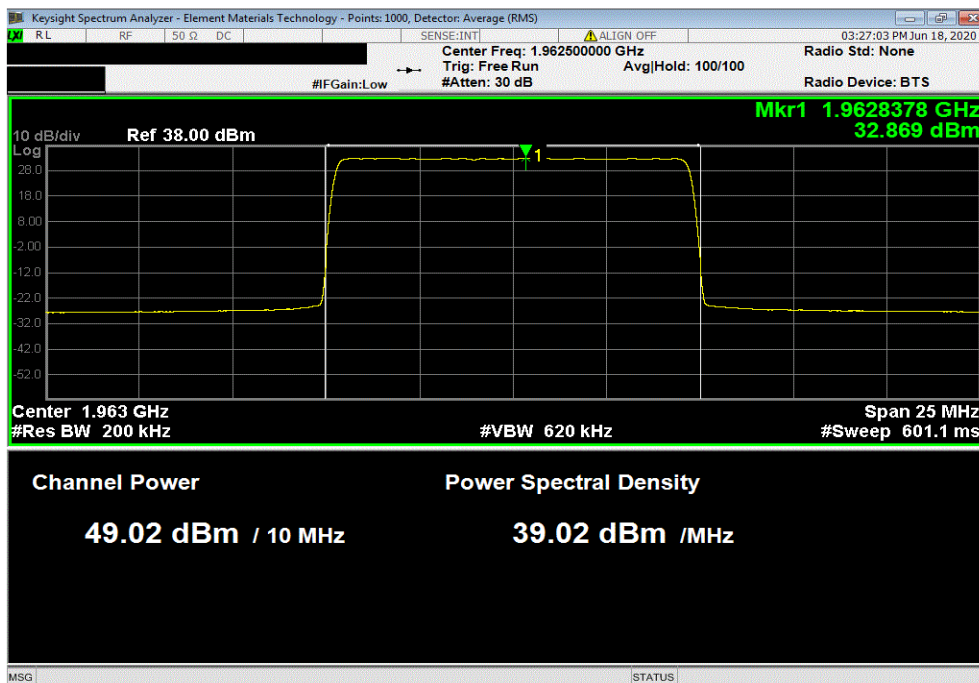


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Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, Low Channel 1935 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.15	0	No Provided	49.2	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.017	0	No Provided	49.0	62.15	N/A	

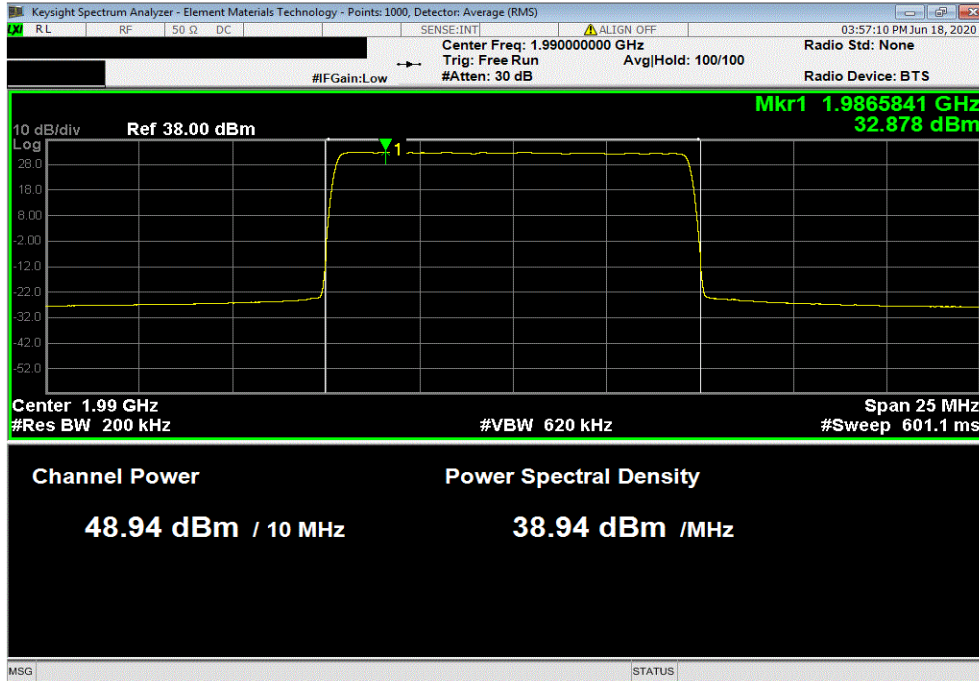


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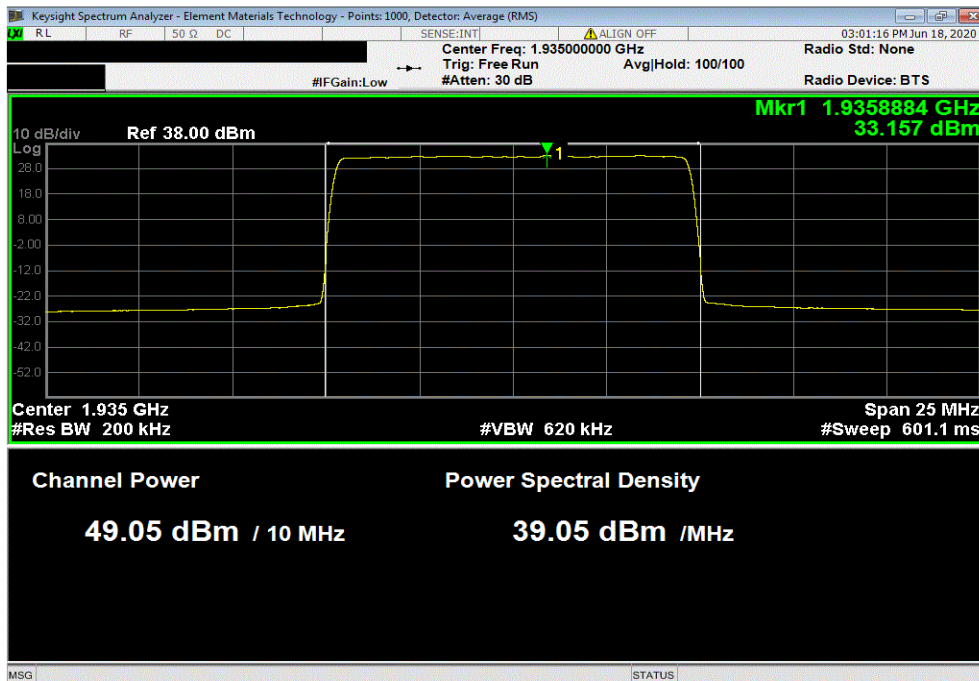


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Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 64-QAM Modulation, High Channel 1990 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.936	0	No Provided	48.9	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 256-QAM Modulation, Low Channel 1935 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.047	0	No Provided	49.0	62.15	N/A	

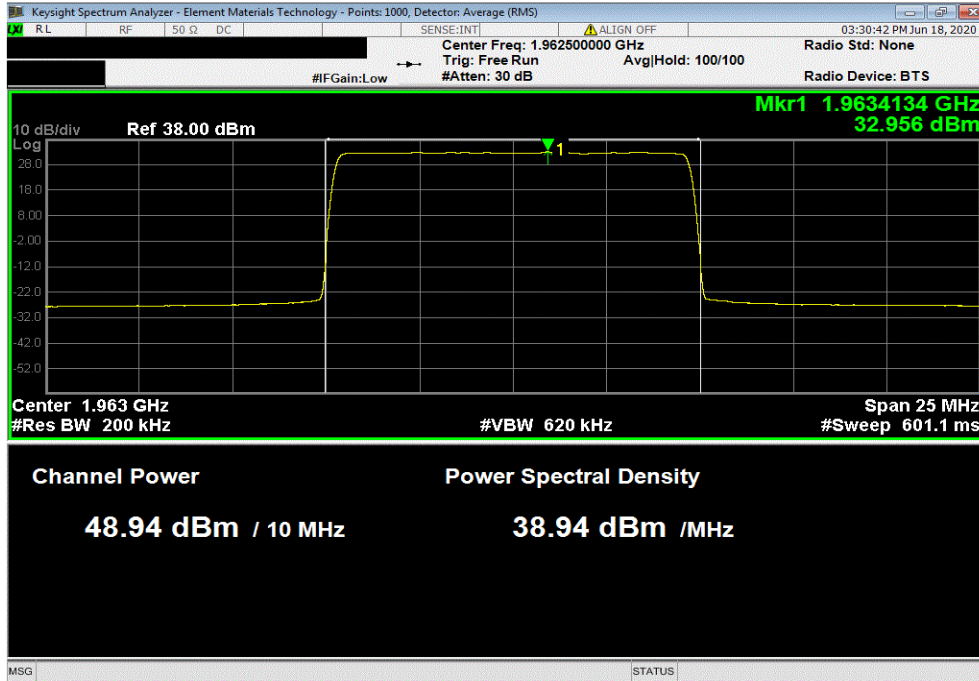


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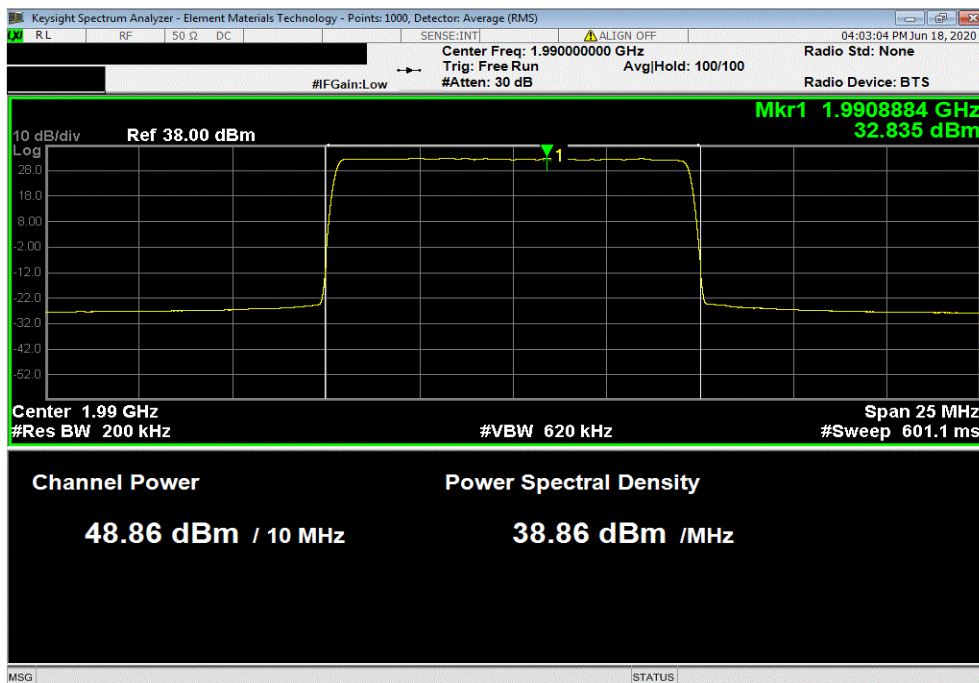


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Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.941	0	No Provided	48.9	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 10 MHz Bandwidth, 256-QAM Modulation, High Channel 1990 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.862	0	No Provided	48.9	62.15	N/A	

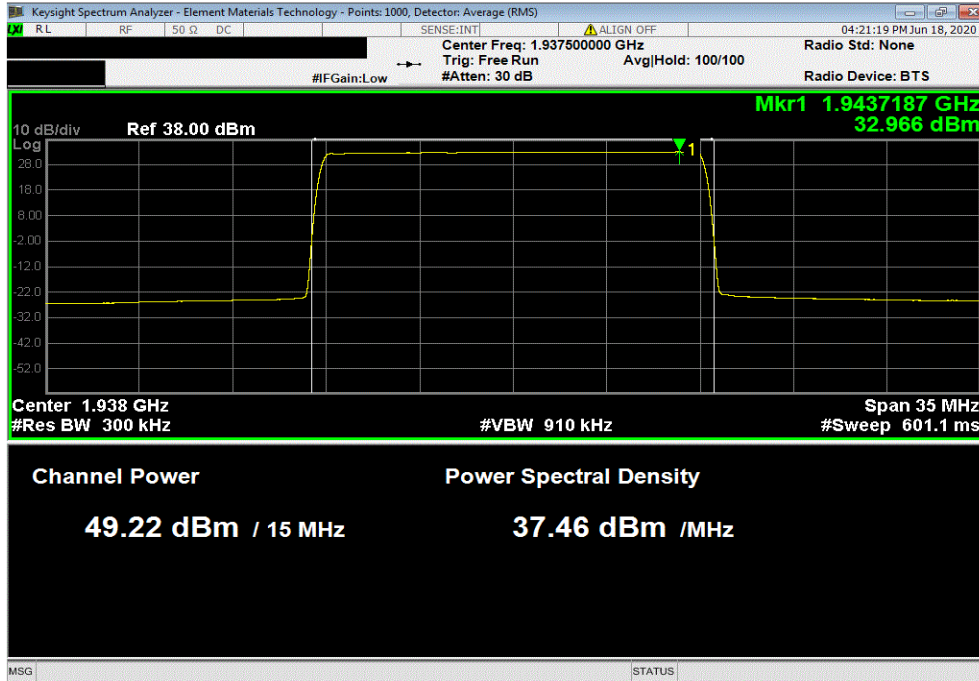


OUTPUT POWER - BAND n25

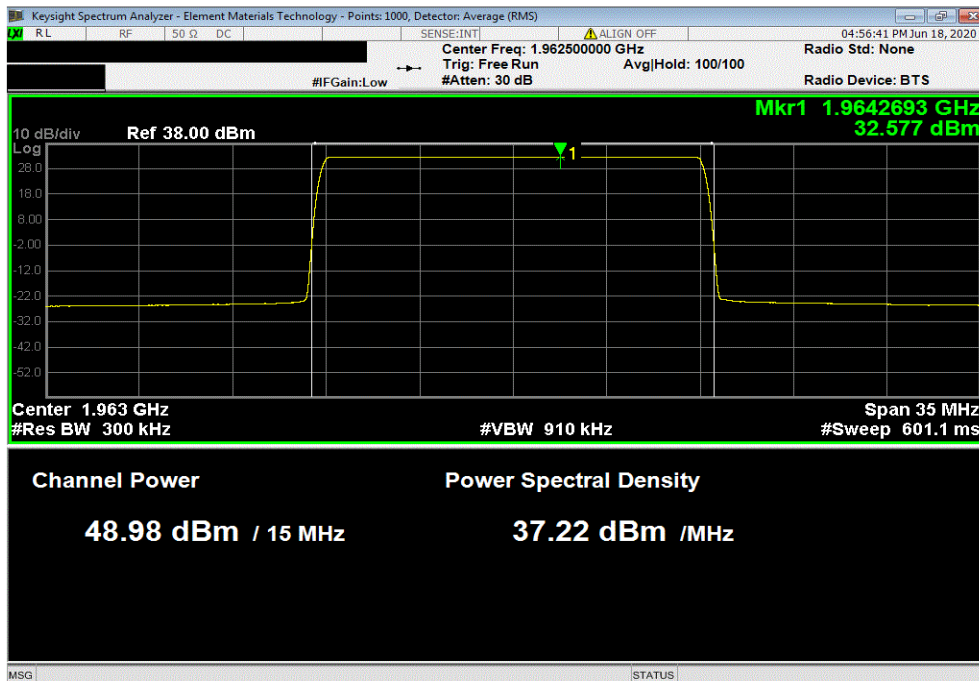


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Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, QPSK Modulation, Low Channel 1937.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.223	0	No Provided	49.2	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.985	0	No Provided	49.0	62.15	N/A	

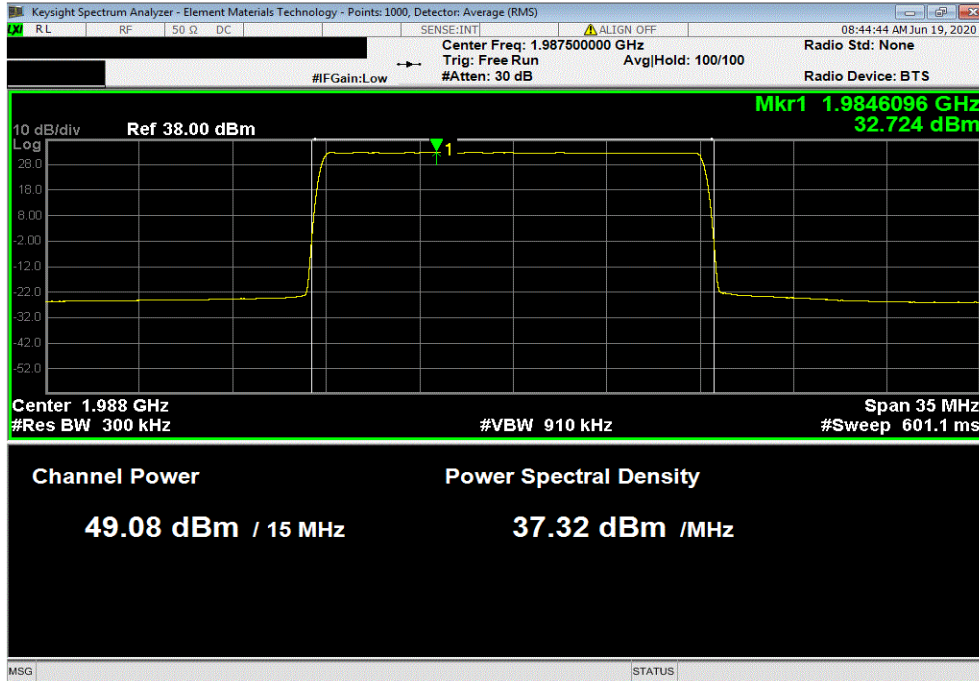


OUTPUT POWER - BAND n25

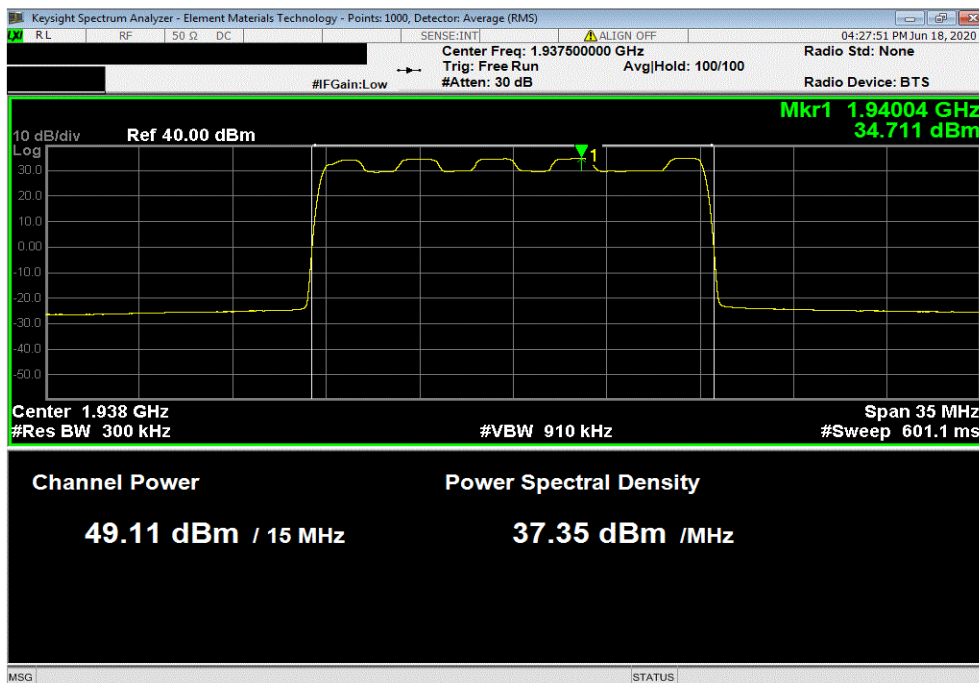


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, QPSK Modulation, High Channel 1987.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.077	0	No Provided	49.1	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Low Channel 1937.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.111	0	No Provided	49.1	62.15	N/A	

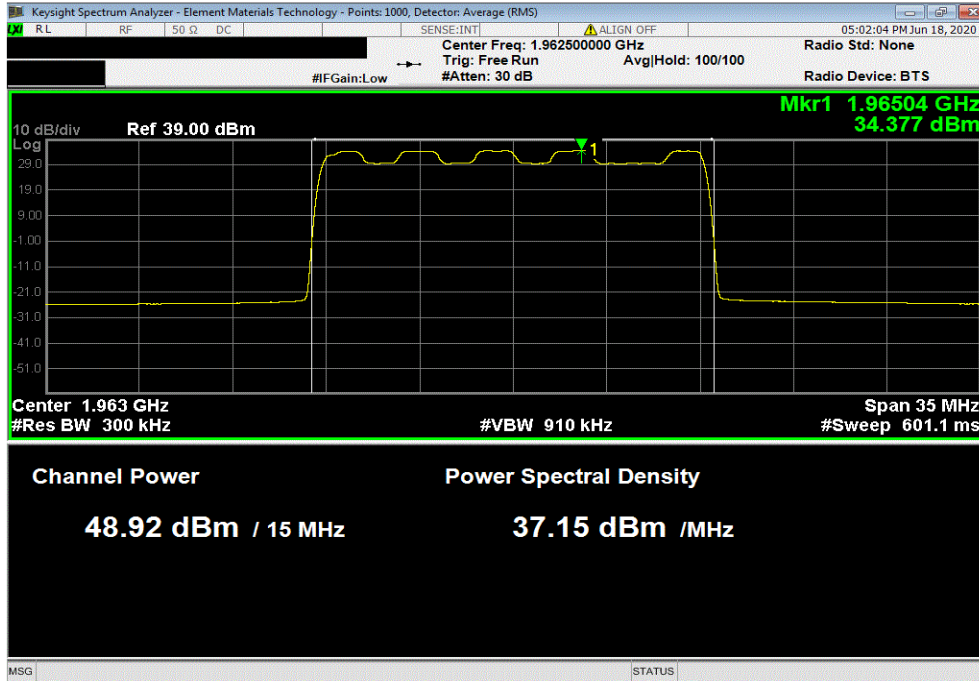


OUTPUT POWER - BAND n25

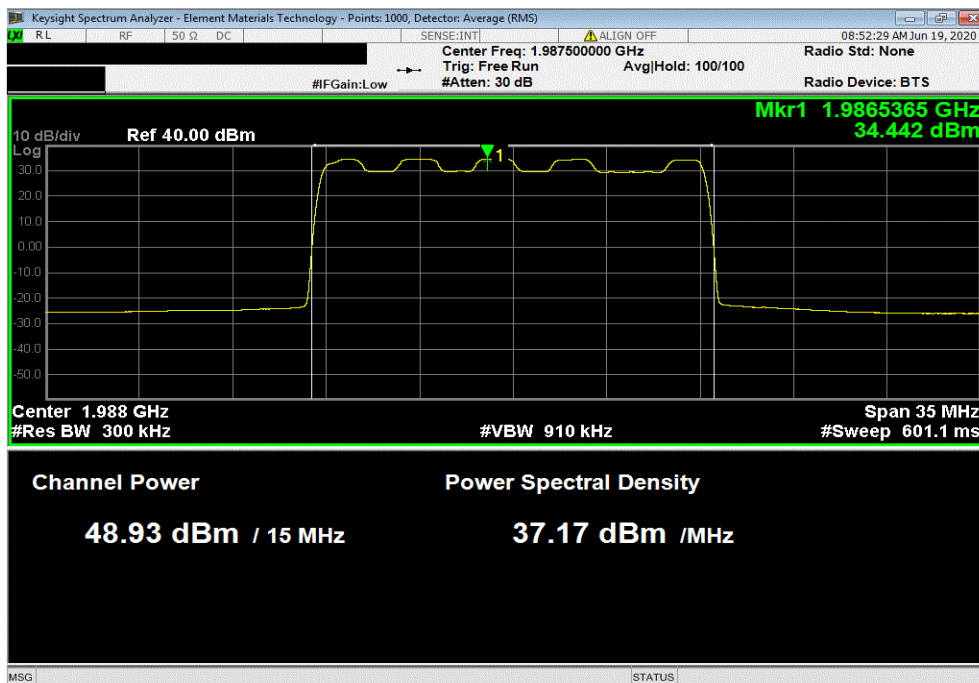


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.916	0	No Provided	48.9	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 16-QAM Modulation , High Channel 1987.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.927	0	No Provided	48.9	62.15	N/A	

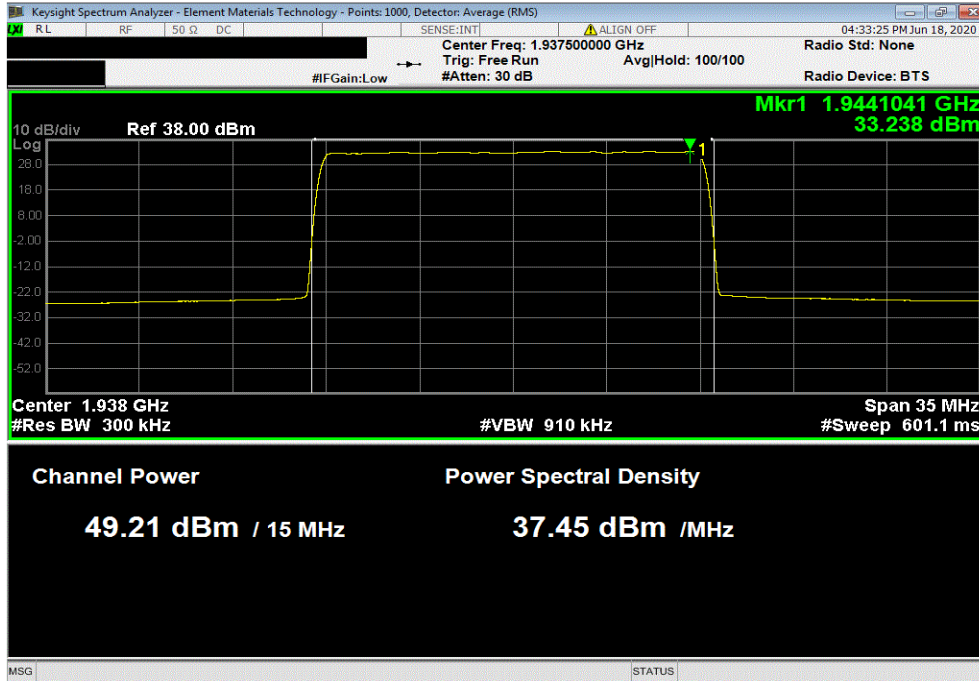


OUTPUT POWER - BAND n25

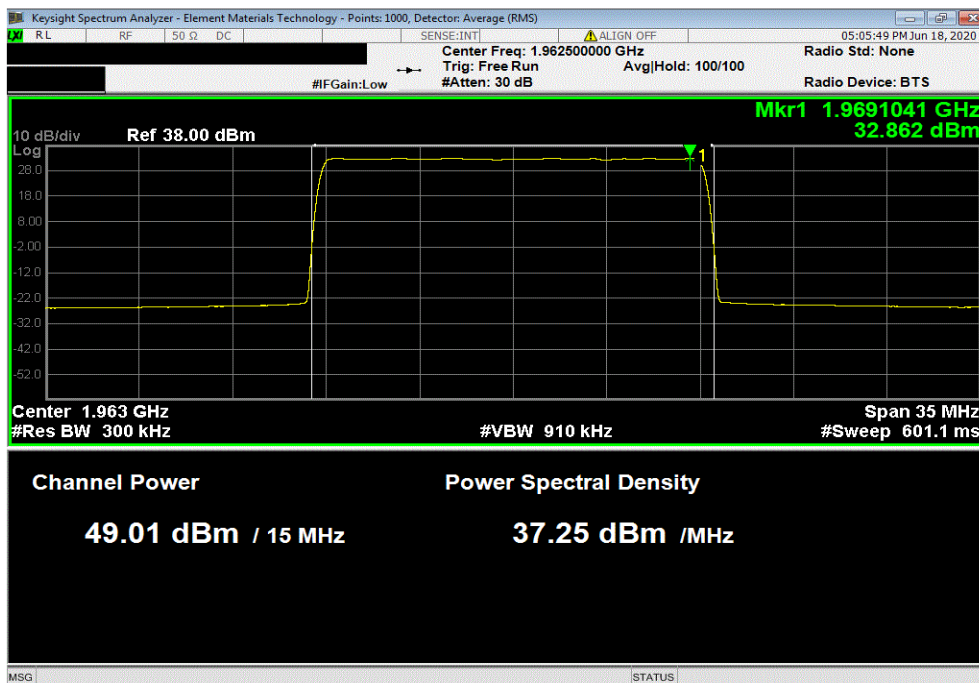


TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Low Channel 1937.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.207	0	No Provided	49.2	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.01	0	No Provided	49.0	62.15	N/A	

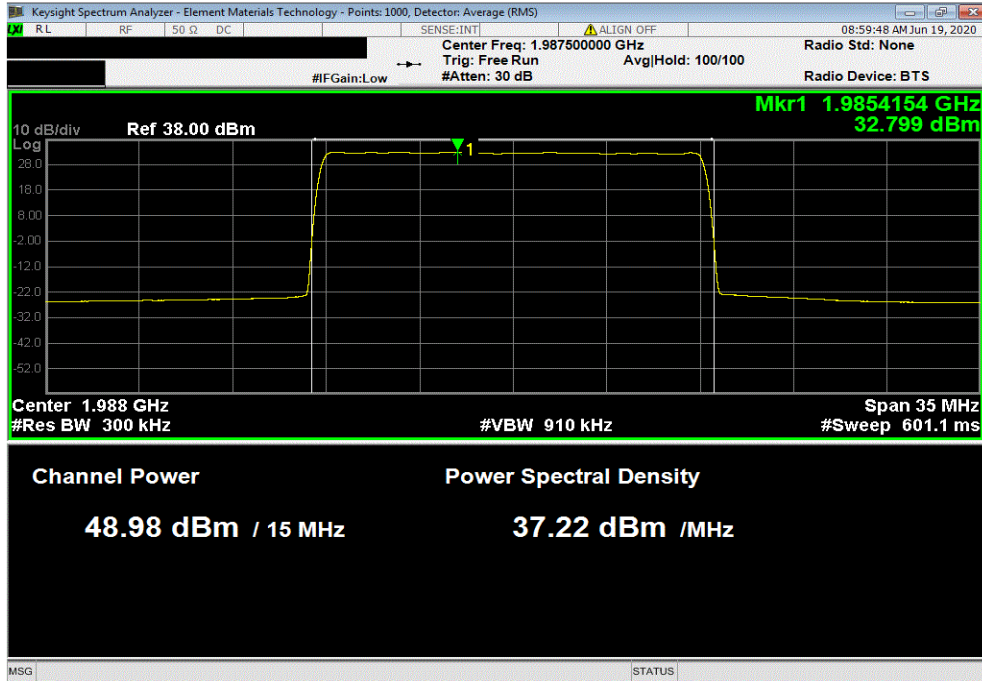


OUTPUT POWER - BAND n25

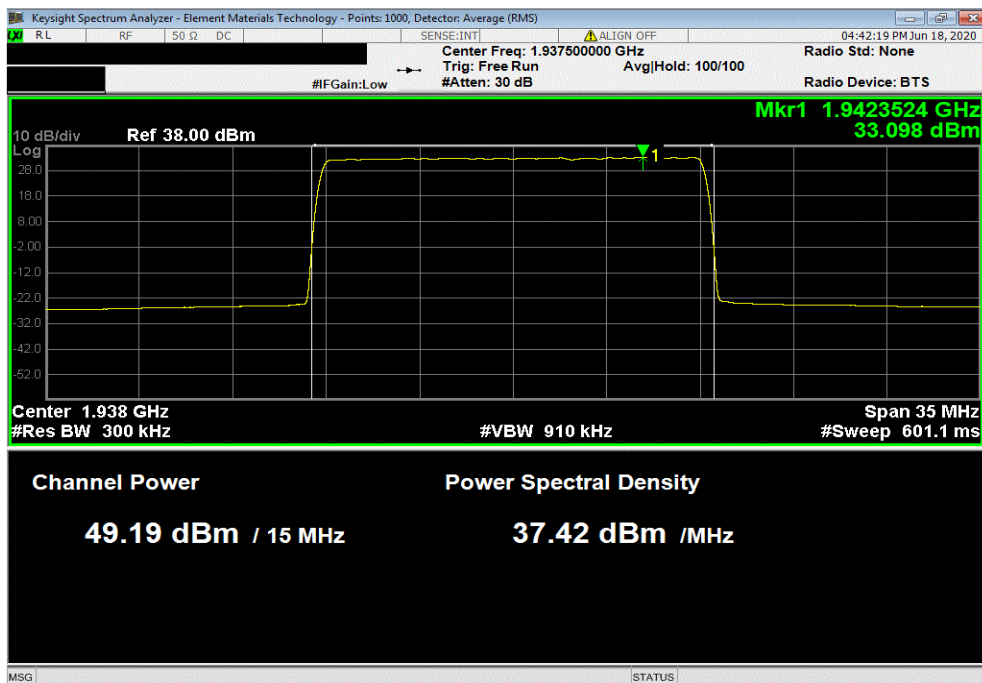


TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 64-QAM Modulation, High Channel 1987.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.981	0	No Provided	49.0	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 15 MHz Bandwidth, 256-QAM Modulation, Low Channel 1937.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.186	0	No Provided	49.2	62.15	N/A	

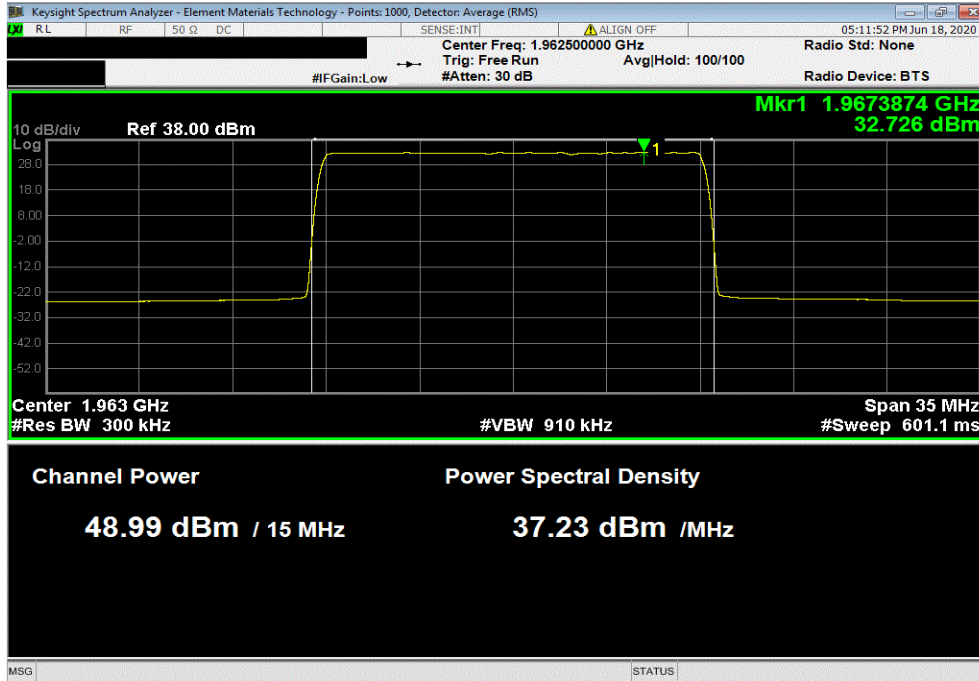


OUTPUT POWER - BAND n25

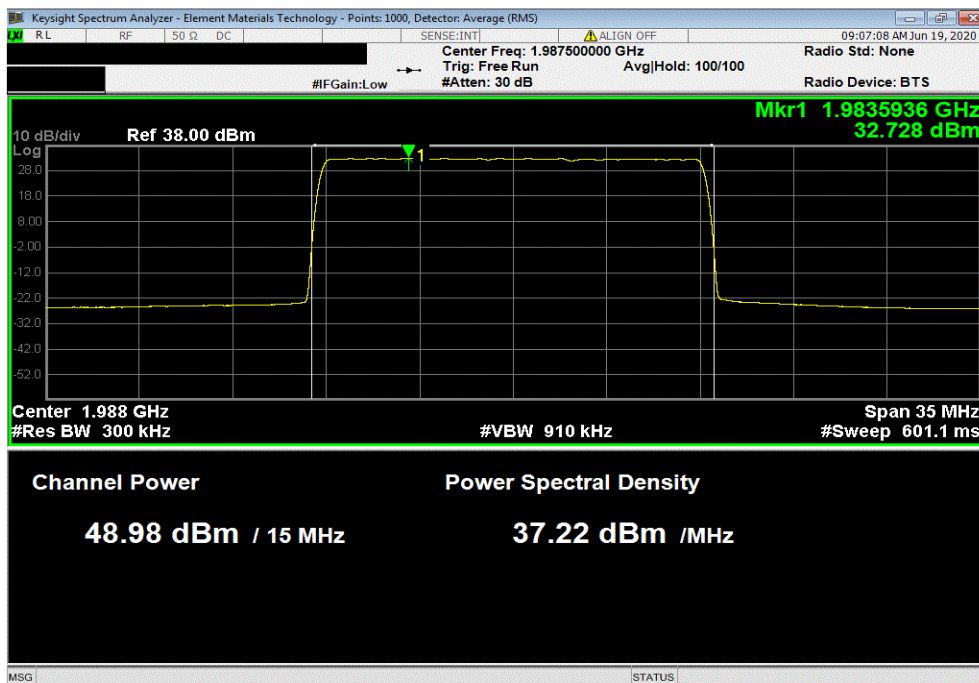


TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.989	0	No Provided	49.0	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz, 15 MHz Bandwidth, 256-QAM Modulation, High Channel 1987.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
48.984	0	No Provided	49.0	62.15	N/A	

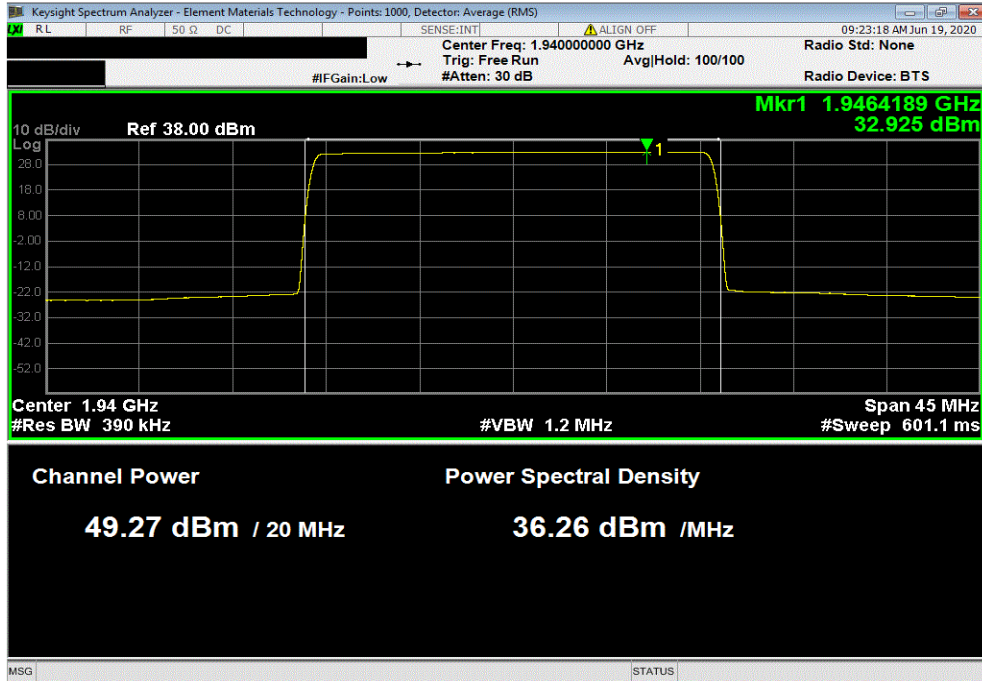


OUTPUT POWER - BAND n25

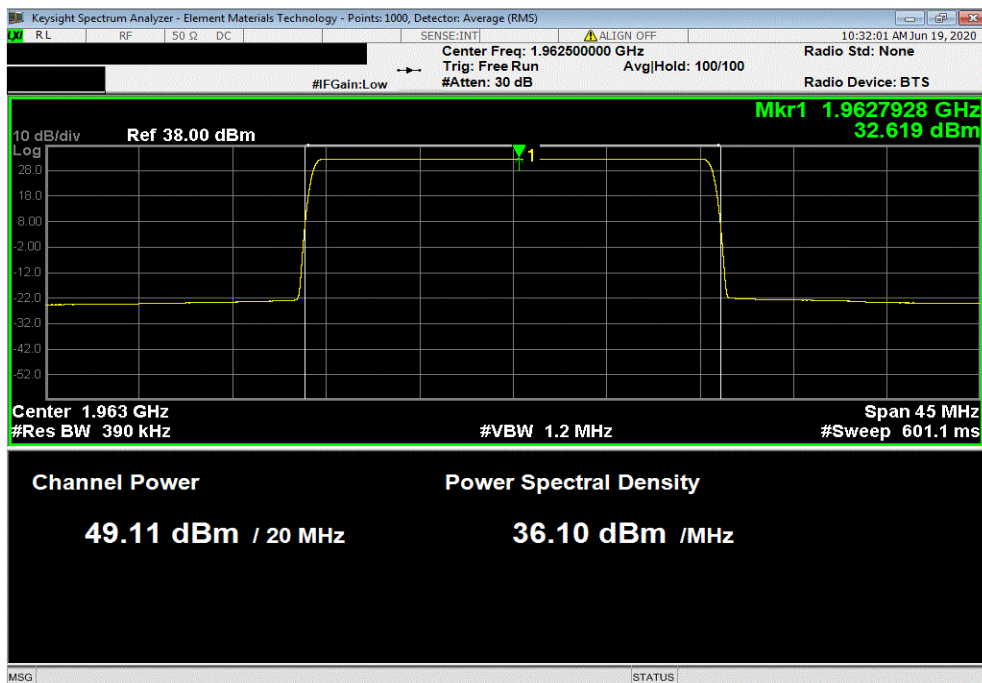


TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, QPSK Modulation, Low Channel 1940 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.27	0	No Provided	49.3	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, QPSK Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.111	0	No Provided	49.1	62.15	N/A	

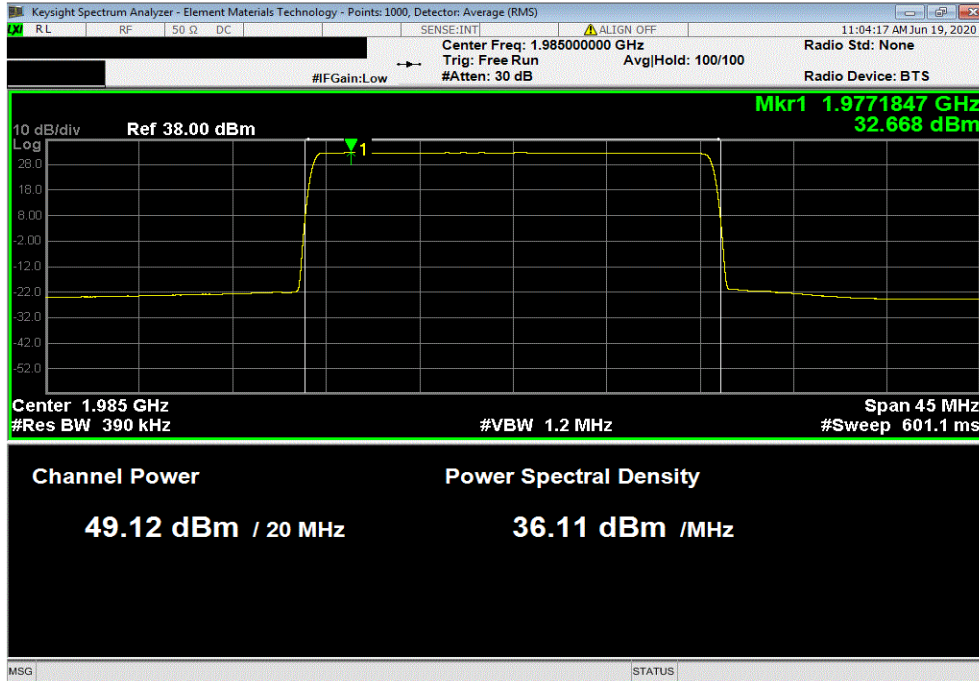


OUTPUT POWER - BAND n25

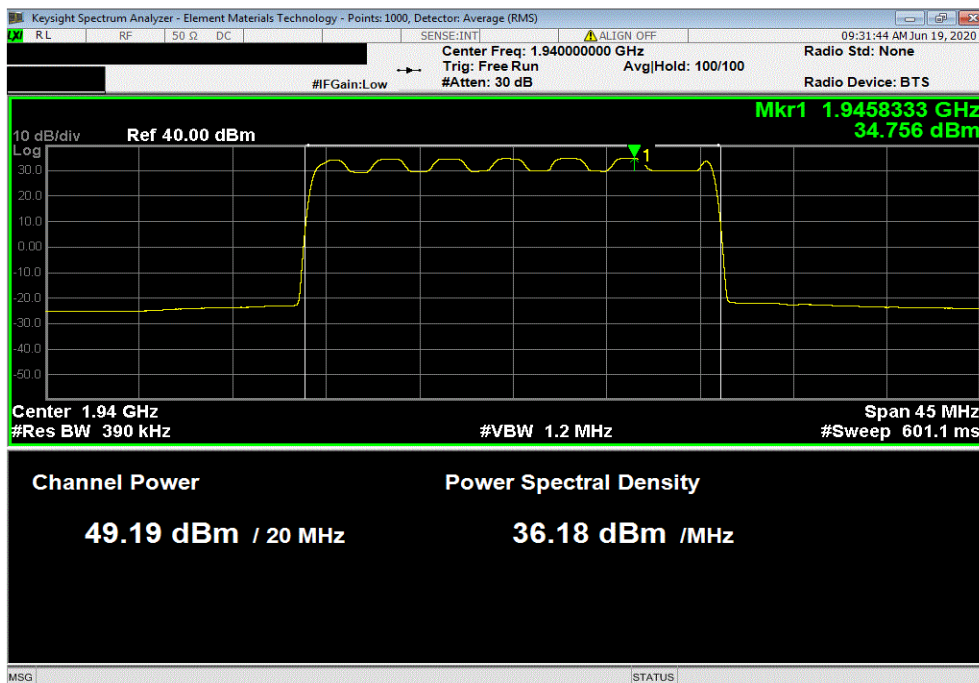


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, QPSK Modulation, High Channel 1985 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.122	0	No Provided	49.1	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 16-QAM Modulation , Low Channel 1940 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.186	0	No Provided	49.2	62.15	N/A	

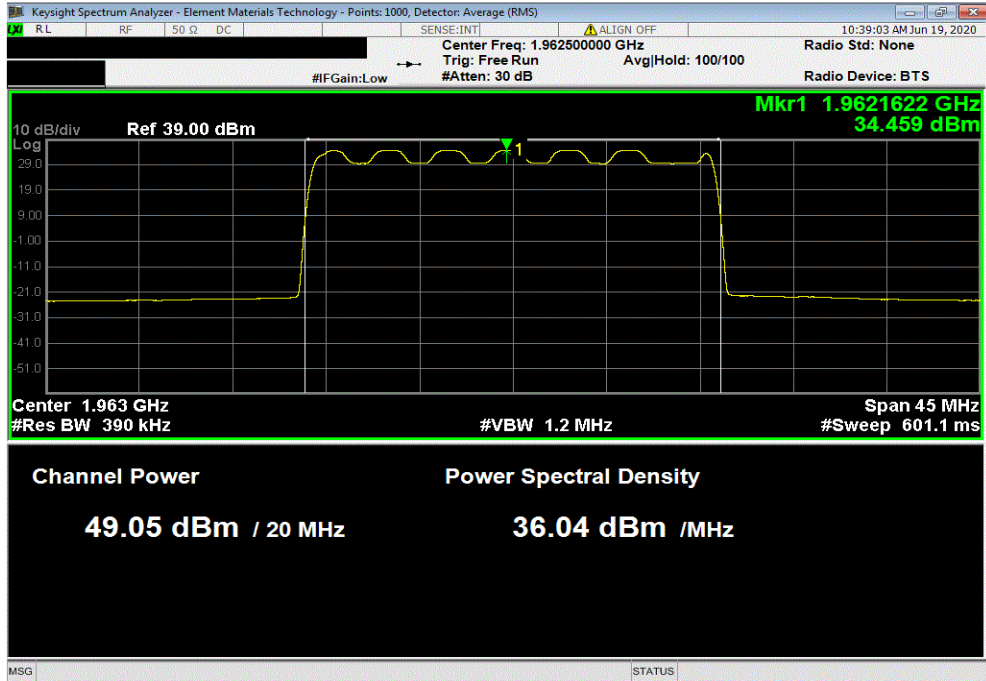


OUTPUT POWER - BAND n25

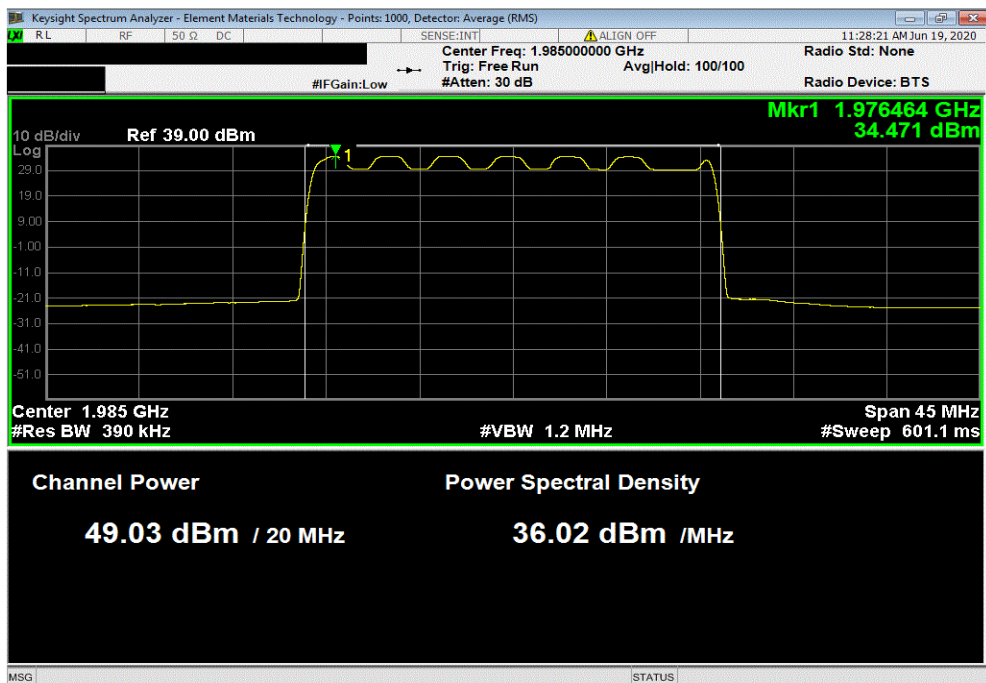


TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 16-QAM Modulation , Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.051	0	No Provided	49.1	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 16-QAM Modulation , High Channel 1985 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.025	0	No Provided	49.0	62.15	N/A	

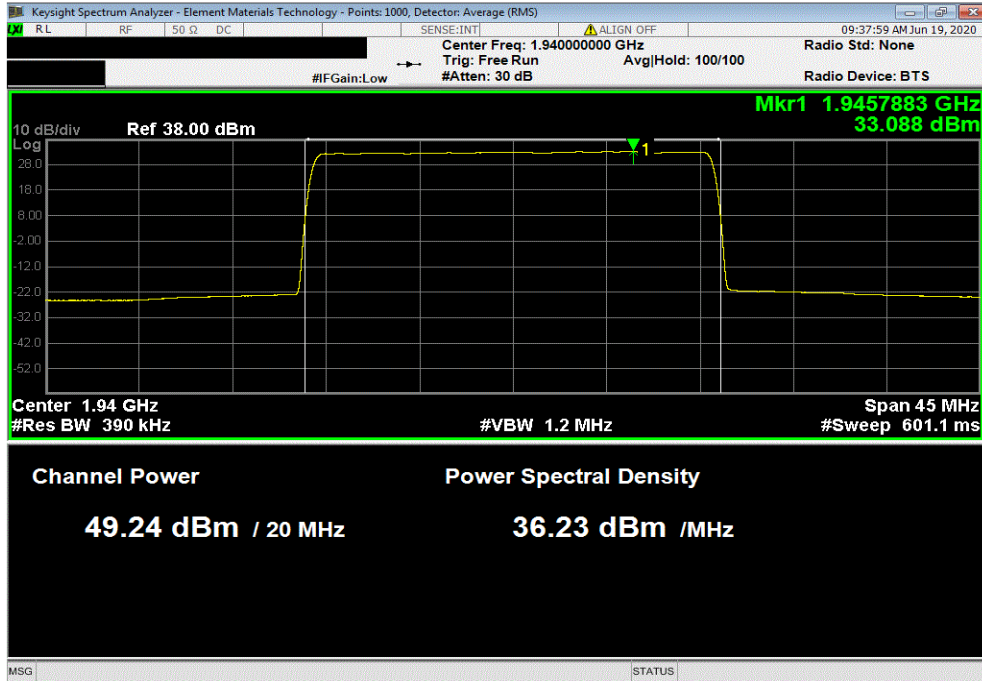


OUTPUT POWER - BAND n25

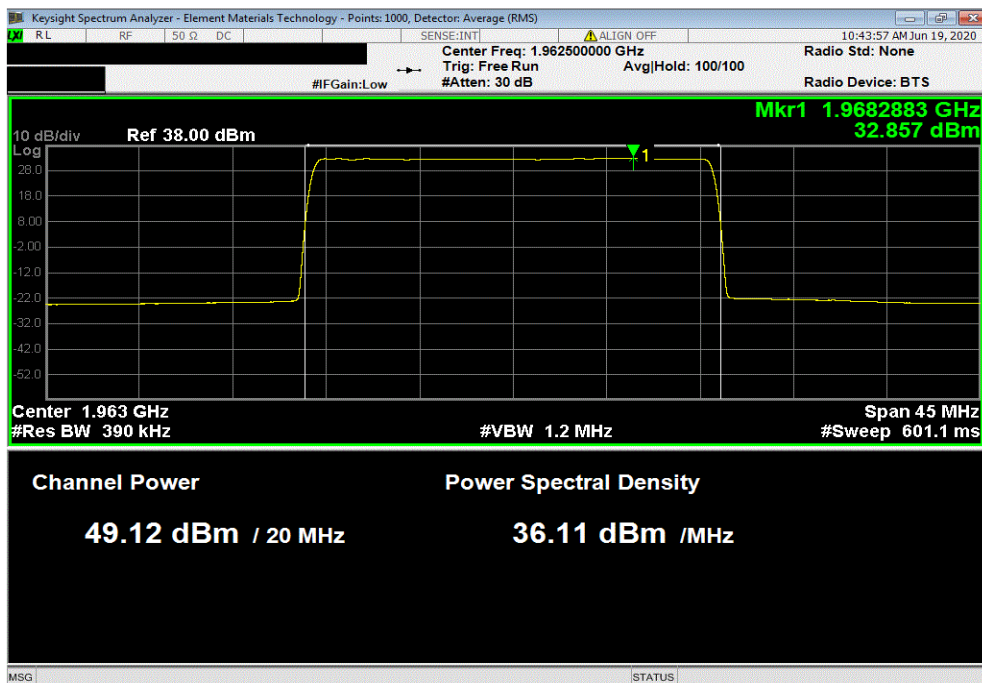


TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, Low Channel 1940 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.244	0	No Provided	49.2	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.119	0	No Provided	49.1	62.15	N/A	

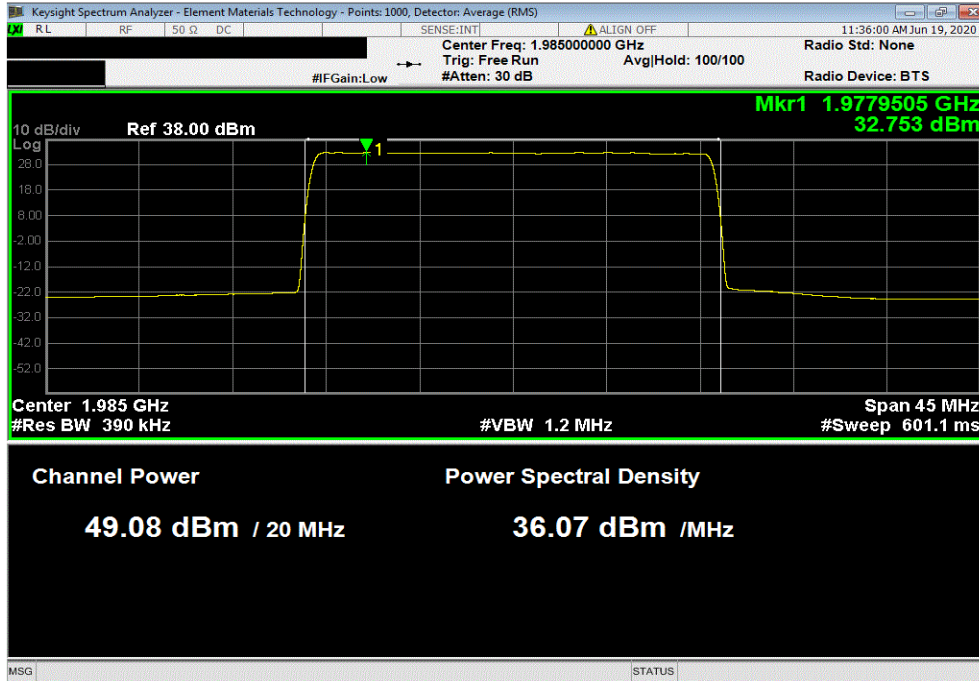


OUTPUT POWER - BAND n25

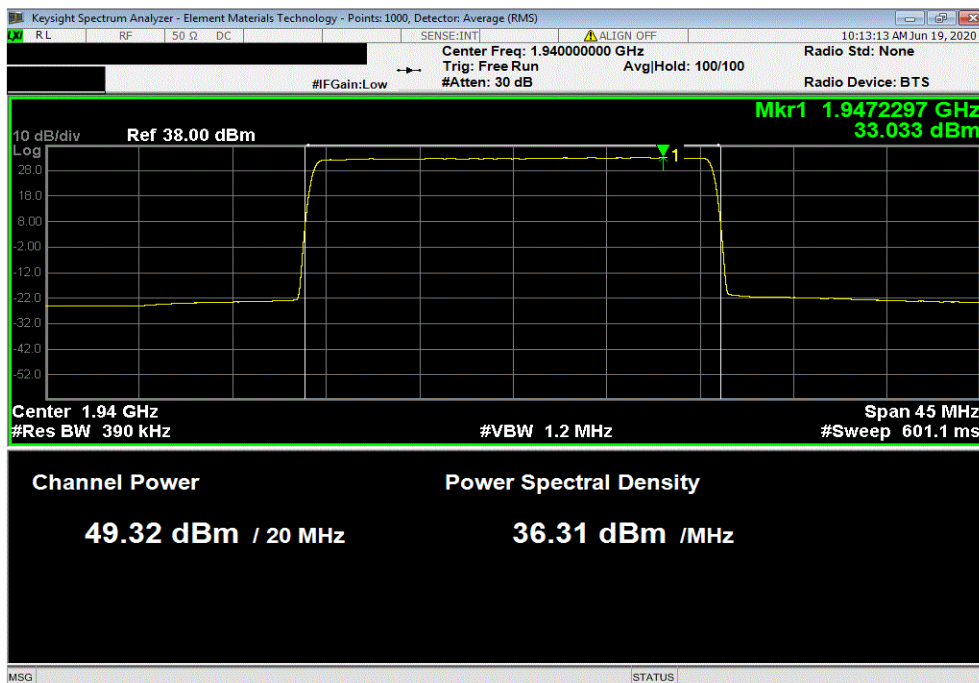


TbTx 2020.06.08.0 BETA XMI 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 64-QAM Modulation, High Channel 1985 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.076	0	No Provided	49.1	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 256-QAM Modulation, Low Channel 1940 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.317	0	No Provided	49.3	62.15	N/A	

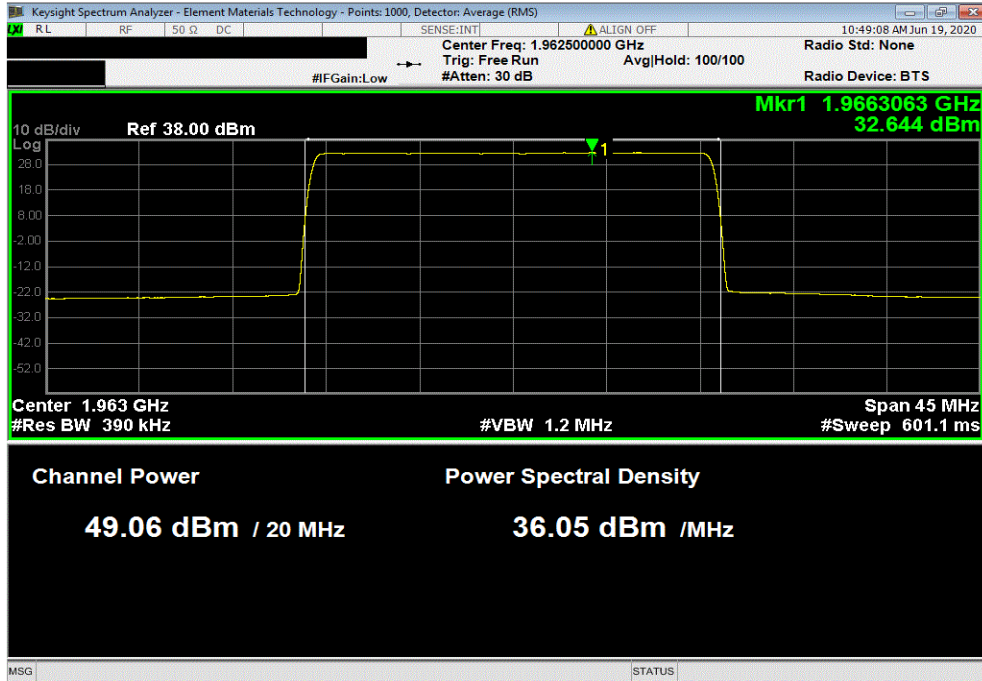


OUTPUT POWER - BAND n25



TbTx 2020.06.08.0 BETA XMi 2020.03.25.0

Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 256-QAM Modulation, Mid Channel 1962.5 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.057	0	No Provided	49.1	62.15	N/A	



Port 4, Band n25, 1930 MHz - 1995 MHz , 20 MHz Bandwidth, 256-QAM Modulation, High Channel 1985 MHz						
Initial Power (dBm/OBW)	Duty Cycle Factor (dB)	Antenna Gain (dBd)+2.15=(dBi)	Final w/o Ant Gain Value (dBm/OBW)	EIRP Limit (dBm/OBW)	Results	
49.087	0	No Provided	49.1	62.15	N/A	

