



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
2477ERM.001A2

Test report

USA FCC Part 96 CITIZENS BROADBAND RADIO SERVICE DEVICES OPERATING WITHIN THE BAND 3550-3700 MHz

Identification of item tested	Citizens Band Category A and B Devices
Trademark	Baicells
Model and /or type reference	mBS31001
Other identification of the product	FCC ID: 2AG32MBS31001
Features	----
Manufacturer	Baicells Technologies Co., Ltd. 3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, PR China, 100085.
Test method requested, standard	USA FCC Part 96 CITIZENS BROADBAND RADIO SERVICE DEVICES OPERATIONG WITHIN THE BAND 3550-3700 MHz. FCC KDB 940660 D01 Part 96 CBRS Eqpt v02: Certification and Test Procedures for Citizens Broadband Radio Service Devices Authorized Under Part FCC KDB 662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band ANSI TIA-603D: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	08-23-2019
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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

To assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

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The results presented in this Test Report apply only to the item under test established in this document.

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Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U(k=2)	Units
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

Baicells mBS31001 is high performance outdoor micro base station based on LTE TDD technology.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control N°	Description	Model	Serial N°	Date of reception
2477.01	LTE TDD Base Station	mBS31001	1202000177191WB0002	03/22/2019
2477.04	Power supply	EUV-300S048ST	1746MT153333	03/22/2019

1. Sample S/01 has undergone following test(s):

All conducted and radiated tests indicated in appendix A.

Test sample description

Product specification	Description	Yes/No
Base Station Class	Wide area Base Station (Macro Cell)	No
	Medium Range Base Stations (Micro Cell)	Yes
	Local area Base Station (Pico cell)	No
	Home Base Station (Femto cell)	No
Category of CBSD	Category A	No
	Category B	Yes
Type of Installation	Professional Installation	Yes
DC power supply voltage (V)	48V AC/DC Adaptor	
RF Test Tool Software of CBSD	DVT	
TX Frequency (*)	10MHz: 3555 MHz — 3695 MHz	
	20MHz: 3560 MHz — 3690 MHz	
RAC Frequency (*)	10MHz: 3555 MHz — 3695 MHz	
	20MHz: 3560 MHz — 3690 MHz	
Maximum Output Power to Antenna (dBm) (*)	10 MHz BW: 30	
	20 MHz BW: 30	
Maximum 99% Occupied Bandwidth (MHz)	10MHz, 20MHz	
Type of Modulation	QPSK	Yes
	16QAM	Yes
	64QAM	Yes
	256QAM	No
Antenna Information	Model: directional antenna Gain:9dBi	
Duty Cycle (%)		
MIMO Information	# of output port: 4 # of input port: 4 # of output ports transmitting simultaneously: 4 List all MIMO configurations supported: 2 transmitting on a single carrier	

Identification of the client

Baicells Technologies Co., Ltd.
3F, Hui Yuan Development Building, No.1 Shangdi Information Industry Base, Haidian Dist., Beijing, PR China, 100085

Testing period and place

Test Location	DEKRA Certification Inc.
Date (start)	03-25-2019
Date (finish)	08-14-2019

Document history

Report number	Date	Description
2477ERM.001	06-03-2019	First release
2477ERM.001A1	07-17-2019	Second release
2477ERM.001A2	08-23-2019	Third Release

Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 2477ERM.001A1 related with the same samples, in the next clauses and sub-clauses:

Clauses/ Sub-Clauses	Modification	Justification
TEST A.1/A.2: Conducted output Power/ Page 18-19	Tables for power summed for all four ports were added for 20MHz BW reference only	To show worst case of the two sectors transmitting simultaneously
	Tables for 20MHz BW reference only were modified to show dBm/20MHz with 20MHz integration	To represent measurement setup properly
TEST A.4: Maximum Power Spectral Density (PSD)/ Page 91-105	PSD result tables and plots were replaced for 10MHz and 20MHz bandwidths	Re-Tested PSD with 1MHz RBW
TEST A.8: Radiated Spurious Emission/ Page 177-201	Tables and plots for summing all four ports were added for 10 MHz BW and 20MHz BW	To show worst case of the two sectors transmitting simultaneously
	Polarizations of table for 10 MHz BW in Frequency range 30-1000 MHz Port 1 and 2 were corrected	To show correct polarizations for the results

This modification test report cancels and replaces the test report 2477ERM.001A1.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 75 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860 mbar Max. = 1060 mbar

Remarks and comments

The tests have been performed by the technical personnel: Sravani Gollamudi, Koji Nishimoto and Poojita Bhattu.

Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

Summary

FCC Part 96 Paragraph				
Section	Part 96. Spec Clause	Test Description	Verdict	Remark
A.1	§ 96.41 (b)	Maximum Effective Isotropic Radiated Power (EIRP)	P	N/A
A.2	§ 2.1046	Conducted Output Power	P	N/A
A.3	§ 2.1049	99% OBW and -26db Bandwidth	P	N/A
A.4	§ 96.41 (b)	Maximum Power Spectral Density (PSD)	P	N/A
A.5	§ 96.41 (g)	Peak to Average Power Ratio (PAPR)	P	N/A
A.6	§ 2.1051, 96.41 (e)	3.5 GHz Emission and Interference limits	P	N/A
A.7	§ 2.1051, 96.41 (e)	Spurious Emissions at Antenna Terminals	P	N/A
A.8	§ 2.1053	Radiated Spurious Emission	P	N/A
A.9	§ 2.1055	Frequency Stability	P	N/A

List of equipment used during the test

Conducted Measurements

CONTROL NUMBER	DESCRIPTION	LAST CALIBRATION	NEXT CALIBRATION
1039	Signal analyzer Rohde & Schwarz FSV40	2018/03	2020/03
1010	EMI Test Receiver Rohde & Schwarz ESR 7	2017/04	2019/08
101	Climatic chamber Espec	2019/01	2020/01

Radiated Measurements

CONTROL NUMBER	DESCRIPTION	LAST CALIBRATION	NEXT CALIBRATION
1179	Semi anechoic Absorber Lined Chamber Frankonia SAC 3 plus "L"	N/A	N/A
1064	BiconicalLog antenna ETS LINDGREN 3142E	2017/03	2020/03
1058	Double-ridge Waveguide Horn antenna 750 MHz-18 GHz	2017/03	2020/03
1056	Double-ridge Waveguide Horn antenna 18-40 GHz	2016/12	2019/12
1014	Spectrum analyzer Rohde & Schwarz FSV40	2019/04	2021/04
1012	EMI Test Receiver Rohde & Schwarz ESR 26	2018/09	2020/09
1015,1017, 1019, 1020	Rohde & Schwarz EMC32 software	N/A	N/A

Appendix A: Test results

Appendix A Content

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DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01 LTE Band 48	<p><u>Power supply (V):</u> $V_{\text{nominal}} = 48 \text{ Vdc}$</p> <p><u>Type of power supply:</u> DC voltage from AC/DC power supply.</p> <p><u>Temperature (°C):</u> $T_{\text{nom}} = +15 \text{ to } +35 \text{ °C}$ $T_{\text{min}} = -40 \text{ (*)}$ $T_{\text{max}} = +55 \text{ (*)}$</p> <p>The subscript nom indicates normal test conditions. The subscripts min and max indicate extreme test conditions (minimum and maximum respectively). N/A: Not Applicable. (*) Declared by applicant.</p> <p>All the tests were performed by using the full RB configuration according to the manufacturer's statement that mBS31001 can transmit only with full RBs in the CBRs band LTE B48.</p> <p>All supported modulations were evaluated and QPSK was identified as worst case.</p> <p>All three orientations (X, Y, and Z) of the DUT were evaluated to determine the worst DUT orientation with the strongest fundamental signal in the radiated emission pre-scan tests. All the radiated emission tests were performed by using the worst DUT orientation.</p> <p><u>Test Frequencies for Conducted and Radiated tests:</u> -10 MHz Bandwidth (50 RB): Lowest Channel (3555 MHz) Middle Channel (3625 MHz) Highest Channel (3695 MHz)</p> <p>-20 MHz Bandwidth (100 RB): Lowest Channel (3560 MHz) Middle Channel (3625 MHz) Highest Channel (3690 MHz)</p>

TEST A.1: MAXIMUM EFFECTIVE ISOTROPIC RADIATED POWER (EIRP) TEST A.2: CONDUCTED OUTPUT POWER

LIMITS:	Product standard:	Part 96.41 Subclause (b)
	Test standard:	ANSI C63.26-2015

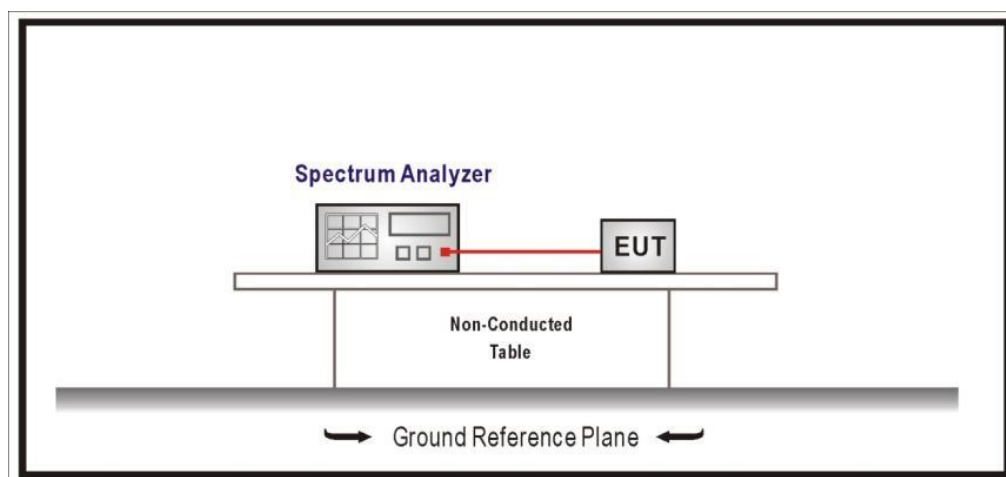
LIMITS

The maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the following table.

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD	47	37

TEST SETUP:	
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The procedure in Section 5.2 of ANSI C63.26-2015 is acceptable for performing power measurements. Measurements can be made using either a peak or average (RMS) detector, if the appropriate procedure is followed. The RMS detector was used for the measurement at each frequency with following the procedure stated in the Section 5.2.4.4.2 of ANSI C63.26-2015.



EIRP was tested with a minimum, half, and maximum number of RBs for all the BWs and identified that the worst case is using full RBs. All the tests were performed by using the full RBs.

The maximum equivalent isotropically radiated power (e.i.r.p.) is calculated by adding the declared maximum antenna gain (dBi) and 10 log (1/duty cycle) was added in RF level offset to get the accurate measured power level in the average power measurement.

The duty cycle correction = $10 \log (1/0.68) = 1.67 \text{ (dB)}$

TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (Band 48)
TEST RESULTS:	PASS

2X2 MIMO

10MHz BW

Port 1 and 2

QPSK

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Power at Port 1 (dBm/10 MHz)	29.51	29.62	29.95
Power at Port 2 (dBm/10 MHz)	29.89	29.65	29.84
Summed Power (dBm/10 MHz)	32.71	32.65	32.91
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	41.71	41.65	41.91
Measurement uncertainty (dB)	< ± 0.95		

64QAM

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Power at Port 1 (dBm/10 MHz)	26.89	27.98	26.75
Power at Port 2 (dBm/10 MHz)	25.77	27.52	26.01
Summed Power (dBm/10 MHz)	29.38	30.77	29.41
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	38.38	39.77	38.41
Measurement uncertainty (dB)	< ± 0.95		

Port 3 and 4

QPSK

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Power at Port 3 (dBm/10 MHz)	29.72	29.98	29.30
Power at Port 4 (dBm/10 MHz)	29.49	29.97	29.76
Summed Power (dBm/10 MHz)	32.62	32.99	32.55
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	41.62	41.99	41.55
Measurement uncertainty (dB)	< ± 0.95		

TEST RESULTS (Cont.):

64QAM

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
Power at Port 1 (dBm/10 MHz)	27.67	29.14	28.11
Power at Port 2 (dBm/10 MHz)	27.12	28.55	26.89
Summed Power (dBm/10 MHz)	30.41	31.87	30.55
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	39.41	40.87	39.55
Measurement uncertainty (dB)	< ± 0.95		

Port 1,2,3 and 4

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1&2 (dBm/10 MHz)	32.71	32.65	32.91
Power at Port 3&4 (dBm/10 MHz)	32.62	32.99	32.55
Summed Power (dBm/10 MHz)	35.68	35.83	35.74
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	44.68	44.83	44.74
Measurement uncertainty (dB)	< ± 0.95		

64-QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1&2 (dBm/10 MHz)	29.38	30.77	29.41
Power at Port 3&4 (dBm/10 MHz)	30.41	31.87	30.55
Summed Power (dBm/10 MHz)	32.94	34.36	33.03
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	41.94	43.36	42.03
Measurement uncertainty (dB)	< ± 0.95		

TEST RESULTS (Cont.):

20MHz BW

Port 1 and 2

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/10 MHz)	27.02	27.10	27.05
Power at Port 2 (dBm/10 MHz)	26.76	26.55	27.01
Summed Power (dBm/10 MHz)	29.90	29.84	30.04
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	38.90	38.84	39.04
Measurement uncertainty (dB)	< ± 0.95		

64QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/10 MHz)	23.04	25.48	23.69
Power at Port 2 (dBm/10 MHz)	22.93	24.69	23.37
Summed Power (dBm/10 MHz)	26.00	28.11	26.54
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	35.00	37.11	35.54
Measurement uncertainty (dB)	< ± 0.95		

Port 3 and 4

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 3 (dBm/10 MHz)	27.27	28.68	28.40
Power at Port 4 (dBm/10 MHz)	27.05	27.25	27.00
Summed Power (dBm/10 MHz)	30.17	31.03	30.77
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	39.17	40.03	39.77
Measurement uncertainty (dB)	< ± 0.95		

TEST RESULTS (Cont.):

64QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/10 MHz)	24.02	26.47	25.23
Power at Port 2 (dBm/10 MHz)	23.59	25.67	23.80
Summed Power (dBm/10 MHz)	26.82	29.10	27.58
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	35.82	38.10	36.58
Measurement uncertainty (dB)	< ± 0.95		

Port 1,2,3 and 4

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1&2 (dBm/10 MHz)	29.90	29.84	30.04
Power at Port 3&4 (dBm/10 MHz)	30.17	31.03	30.77
Summed Power (dBm/10 MHz)	33.05	33.49	33.43
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	42.05	42.49	42.43
Measurement uncertainty (dB)	< ± 0.95		

64-QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1&2 (dBm/10 MHz)	26.00	28.11	26.54
Power at Port 3&4 (dBm/10 MHz)	26.82	29.10	27.58
Summed Power (dBm/10 MHz)	29.44	31.64	30.10
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/10 MHz)	38.44	40.64	39.10
Measurement uncertainty (dB)	< ± 0.95		

TEST RESULTS (Cont.):

20MHz BW Reference only

Port 1 and 2

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/20 MHz)	29.69	29.80	29.66
Power at Port 2 (dBm/20 MHz)	29.36	29.24	29.57
Summed Power (dBm/20 MHz)	32.54	32.54	32.63
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/20 MHz)	41.54	41.54	41.63
Measurement uncertainty (dB)	< ± 0.95		

64QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/20 MHz)	25.54	28.12	26.30
Power at Port 2 (dBm/20 MHz)	25.53	27.35	25.94
Summed Power (dBm/20 MHz)	28.55	30.76	29.13
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/20 MHz)	37.55	39.76	38.13
Measurement uncertainty (dB)	< ± 0.95		

Port 3 and 4

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 3 (dBm/20 MHz)	29.87	29.81	29.03
Power at Port 4 (dBm/20 MHz)	29.75	29.95	29.65
Summed Power (dBm/20 MHz)	32.82	32.89	32.36
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/20 MHz)	41.82	41.89	41.36
Measurement uncertainty (dB)	< ± 0.95		

TEST RESULTS (Cont.):

64QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1 (dBm/20 MHz)	26.56	29.09	27.78
Power at Port 2 (dBm/20 MHz)	26.34	28.33	26.45
Summed Power (dBm/20 MHz)	29.46	31.74	30.18
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/20 MHz)	38.46	40.74	39.18
Measurement uncertainty (dB)	< ± 0.95		

Port 1,2,3 and 4

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1&2 (dBm/20 MHz)	32.54	32.54	32.63
Power at Port 3&4 (dBm/20 MHz)	32.82	32.89	32.36
Summed Power (dBm/20 MHz)	35.69	35.73	35.51
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/20 MHz)	44.69	44.73	44.51
Measurement uncertainty (dB)	< ± 0.95		

64-QAM

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
Power at Port 1&2 (dBm/20 MHz)	28.55	30.76	29.13
Power at Port 3&4 (dBm/20 MHz)	29.46	31.74	30.18
Summed Power (dBm/20 MHz)	32.04	34.29	32.70
Maximum declared antenna gain (dBi)	9.00	9.00	9.00
Maximum EIRP (dBm/20 MHz)	41.04	43.29	41.70
Measurement uncertainty (dB)	< ± 0.95		

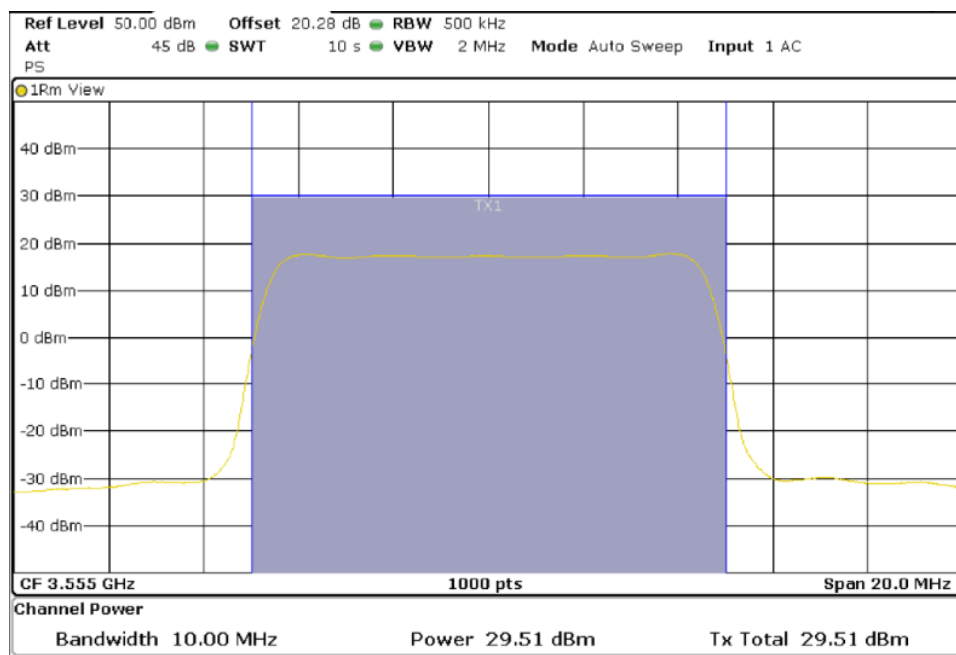
(See next plots showing QPSK only)

TEST RESULTS (Cont.):

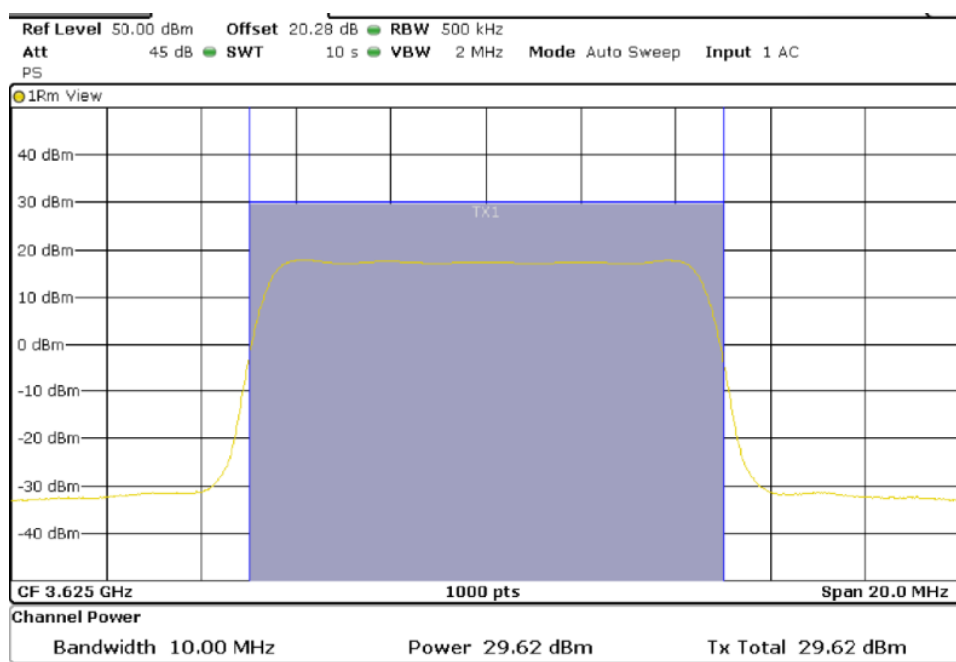
Port 1

10 MHz BW

Lowest Channel (3555 MHz)

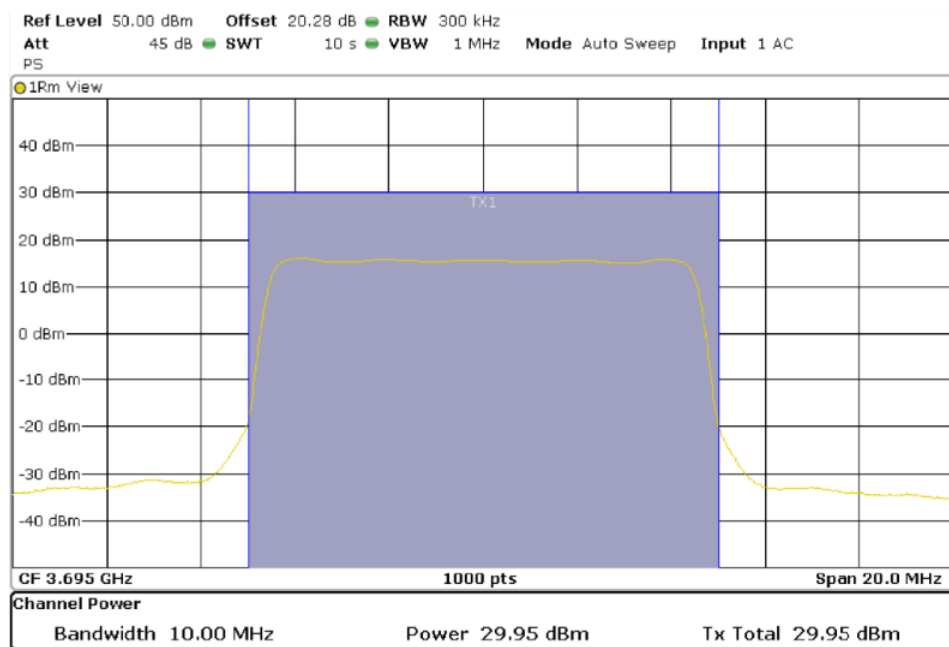


Middle Channel (3625 MHz)



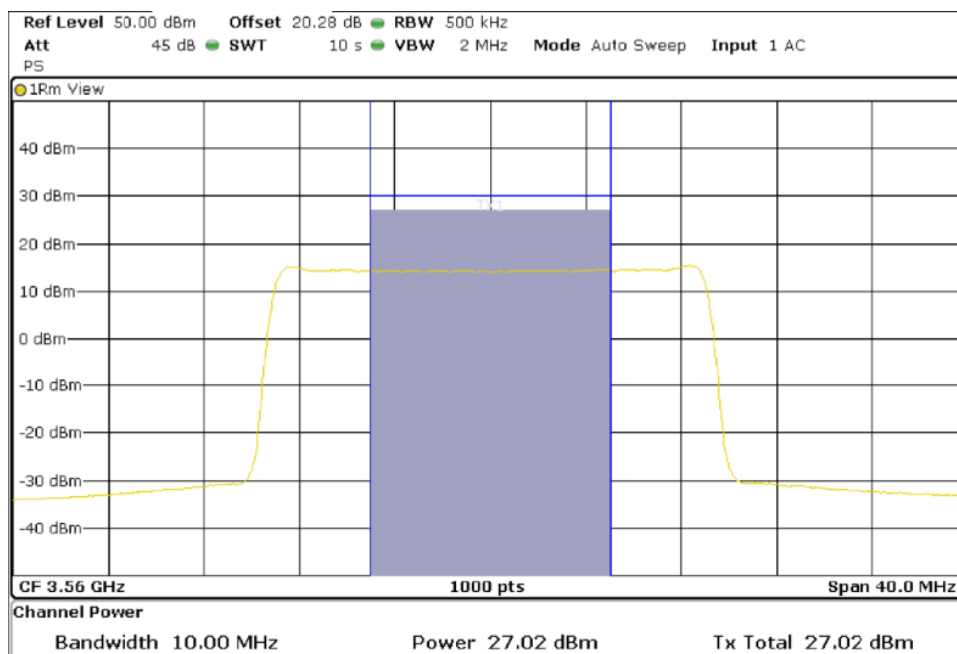
TEST RESULTS (Cont.):

Highest Channel (3695 MHz)



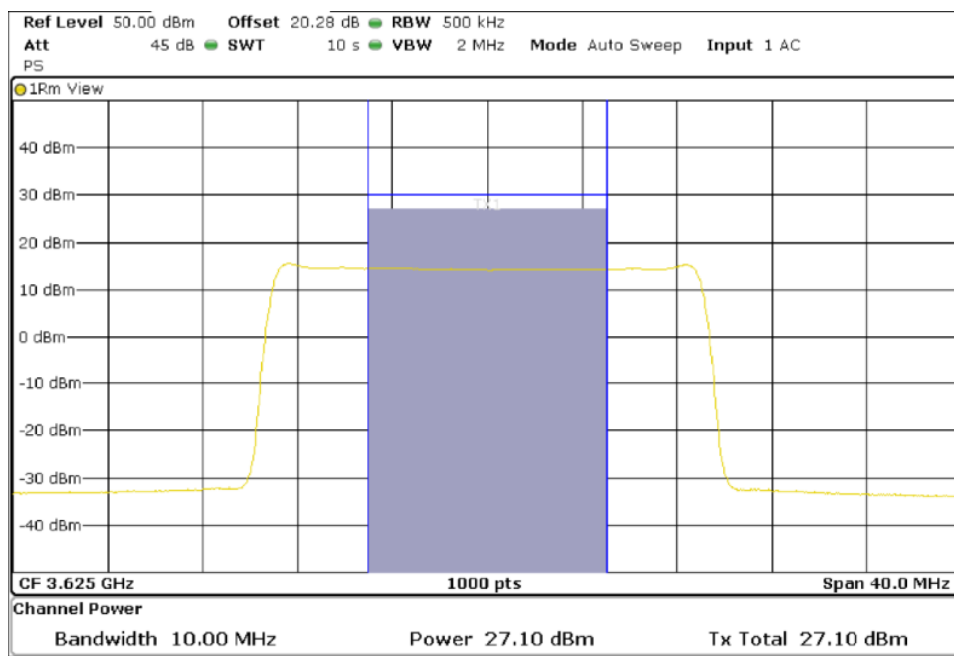
20 MHz BW

Lowest Channel (3560 MHz)

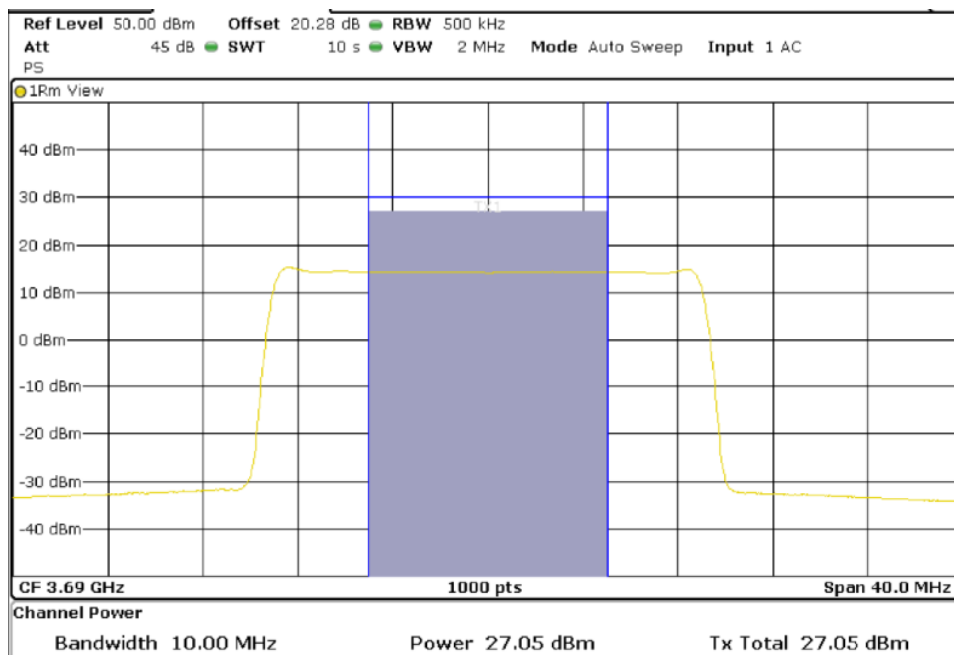


TEST RESULTS (Cont.):

Middle Channel (3625 MHz)



Highest Channel (3690 MHz)

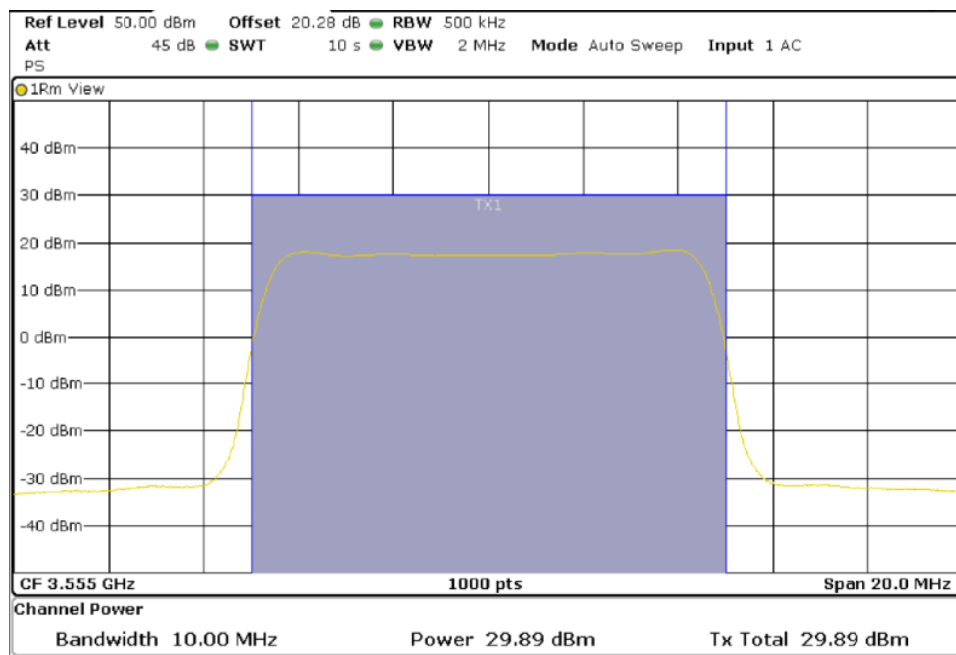


TEST RESULTS (Cont.):

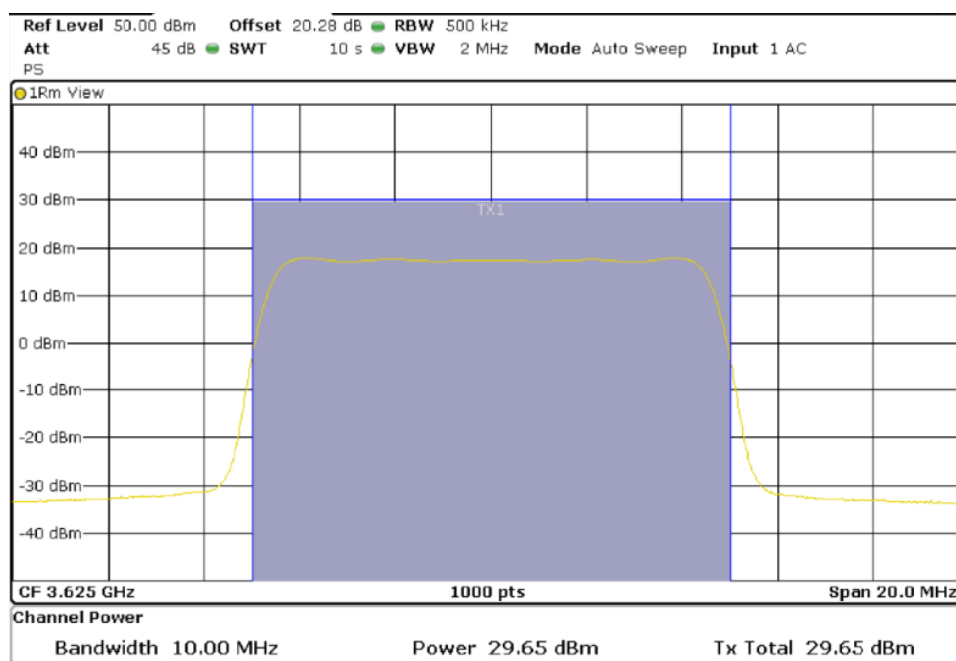
Port 2

10 MHz BW

Lowest Channel (3555 MHz)

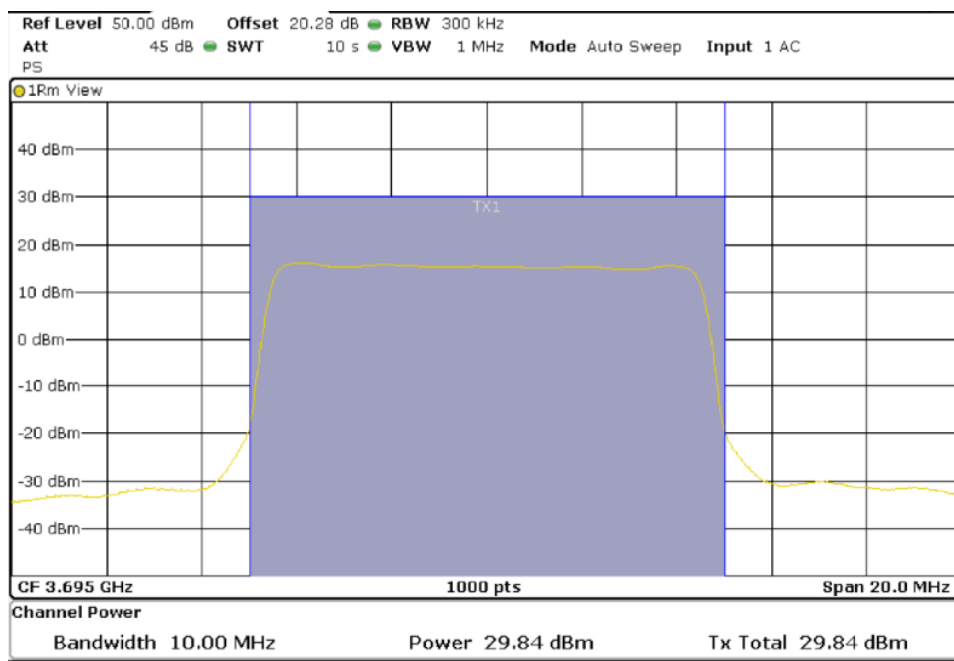


Middle Channel (3625 MHz)



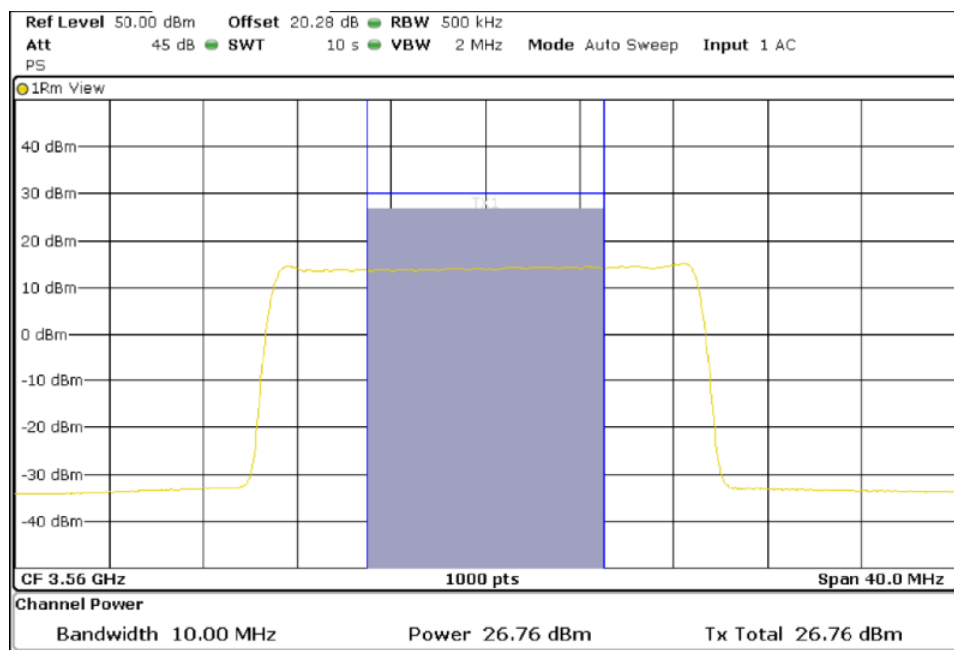
TEST RESULTS (Cont.):

Highest Channel (3695 MHz)



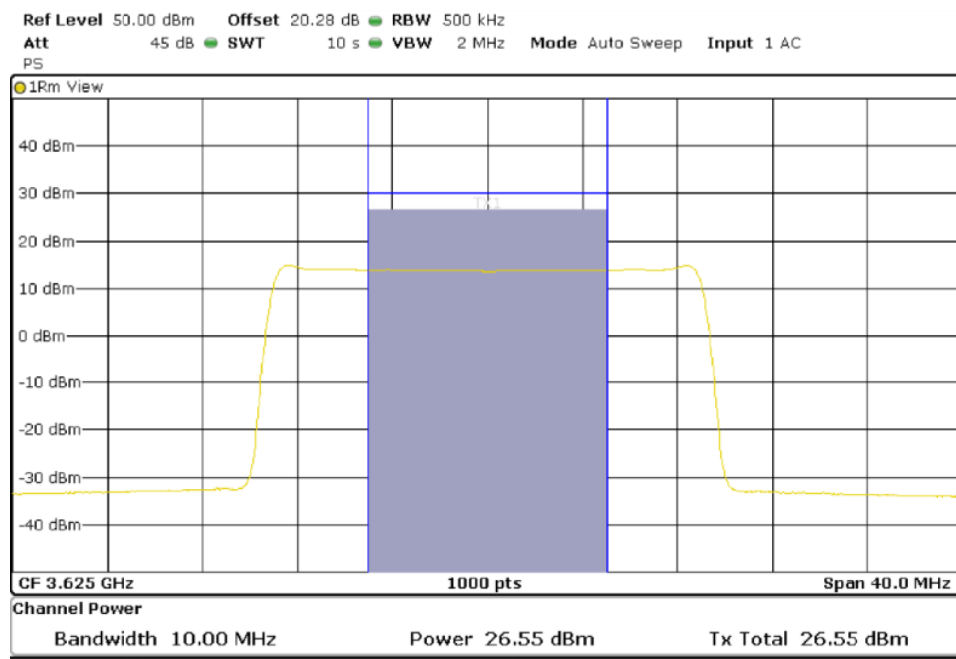
20 MHz BW

Lowest Channel (3560 MHz)

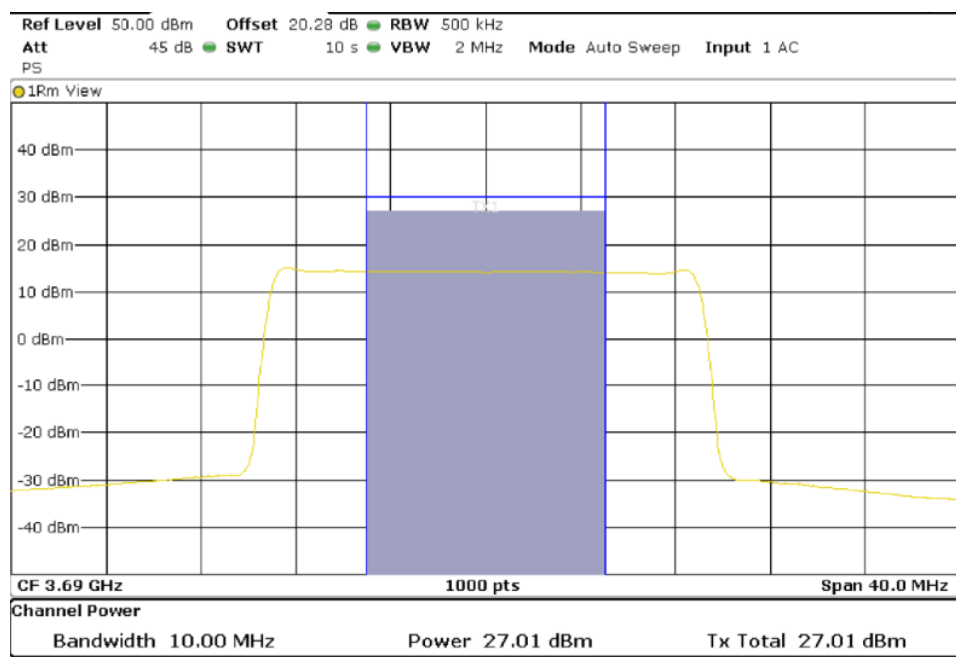


TEST RESULTS (Cont.):

Middle Channel (3625 MHz)



Highest Channel (3690 MHz)

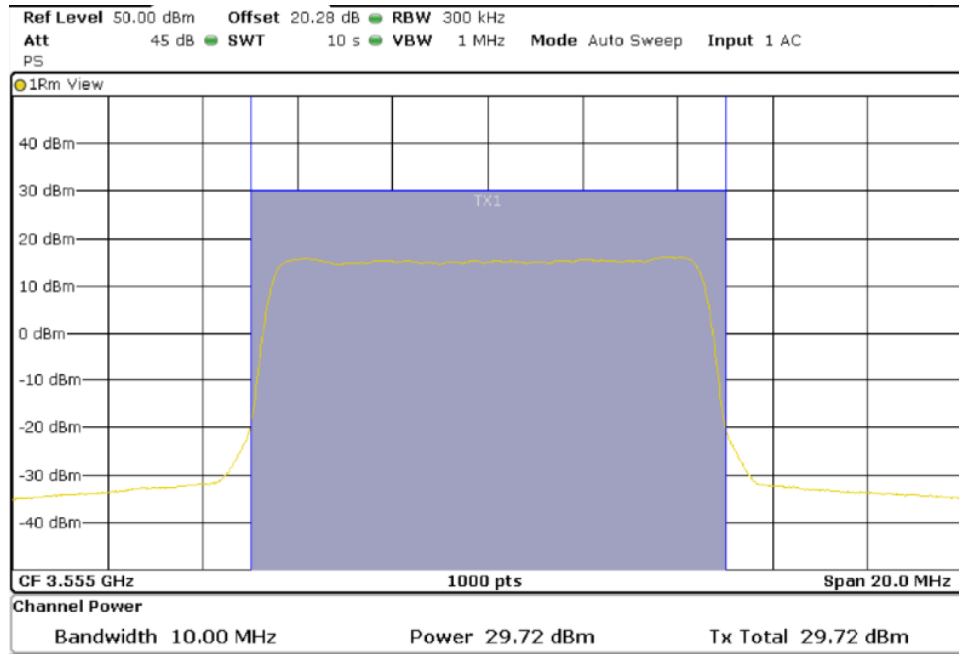


TEST RESULTS (Cont.):

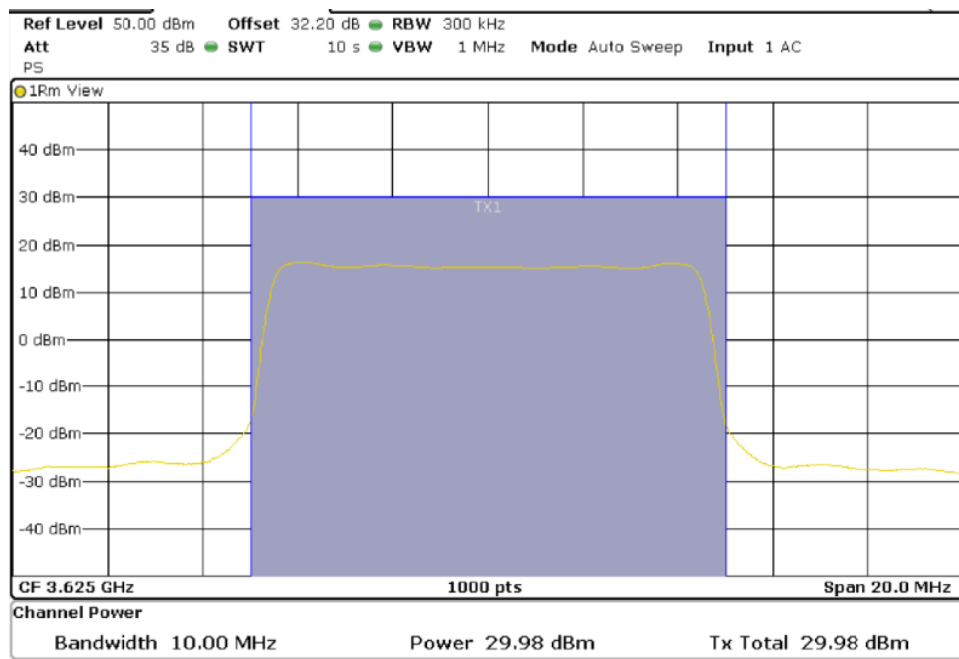
Port 3

10 MHz BW

Lowest Channel (3555 MHz)

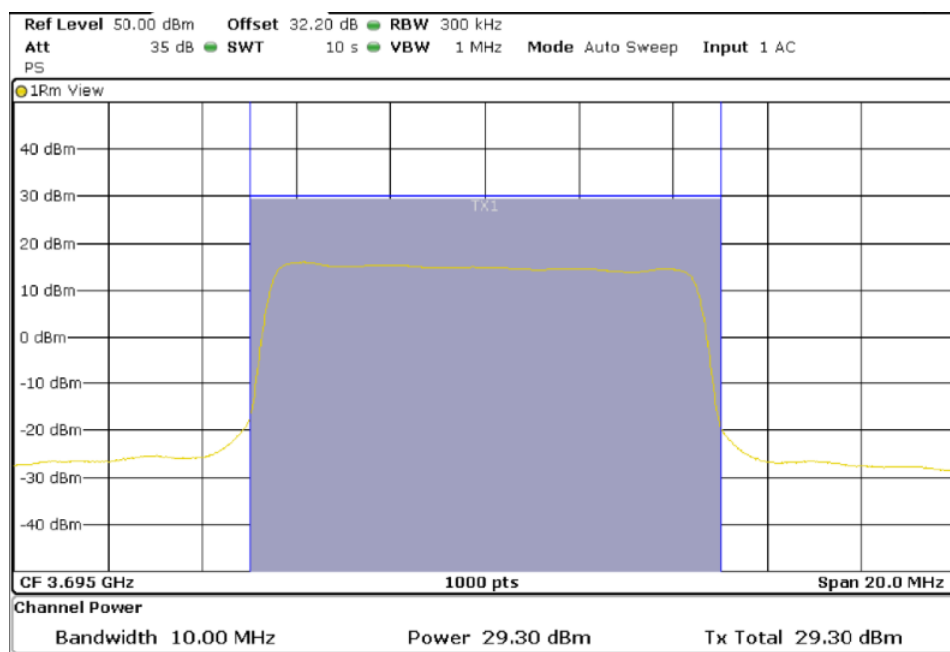


Middle Channel (3625 MHz)



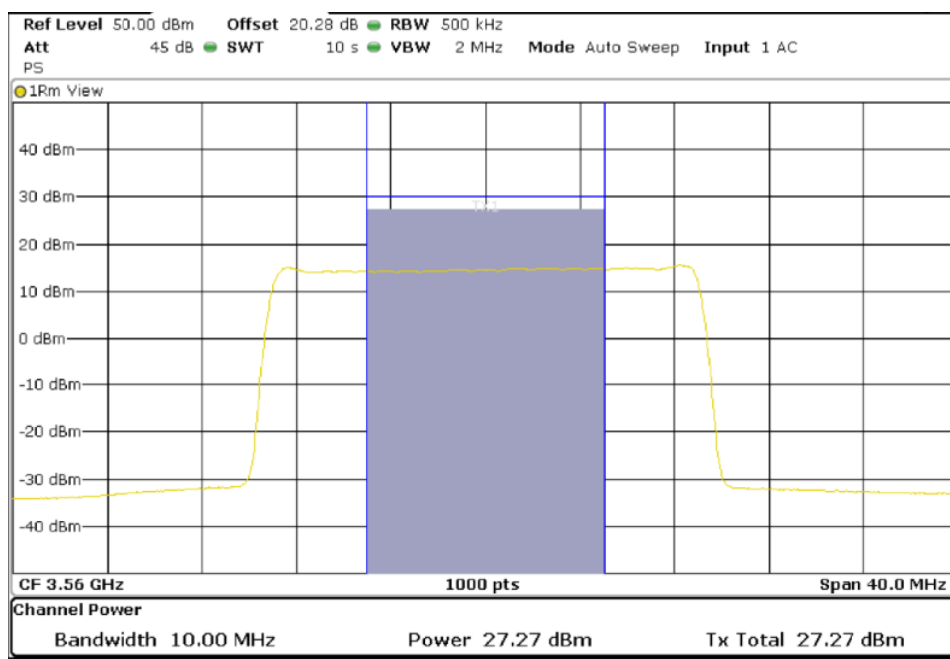
TEST RESULTS (Cont.):

Highest Channel (3695 MHz)



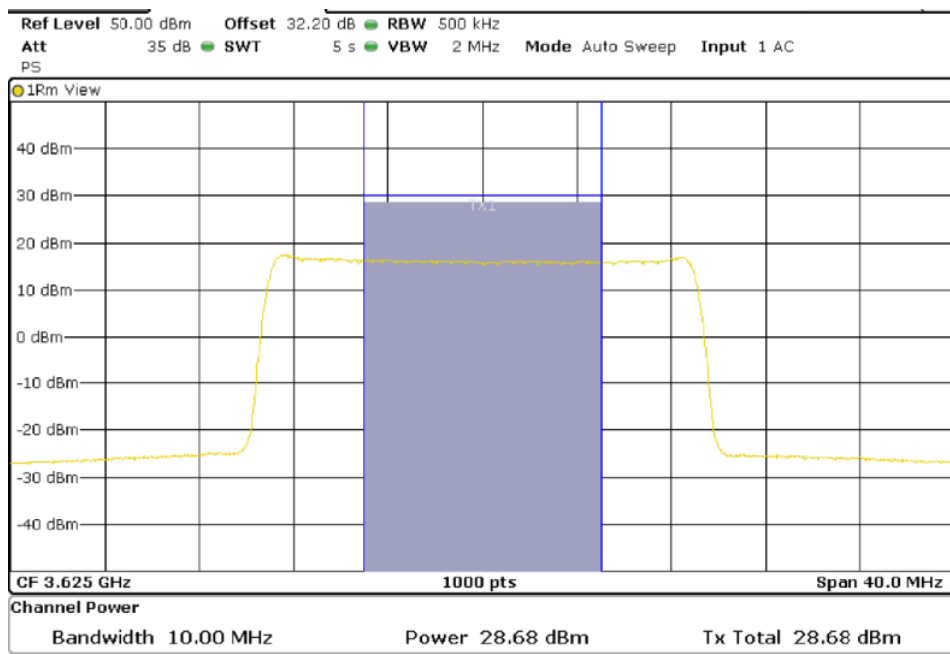
20 MHz BW

Lowest Channel (3560 MHz)

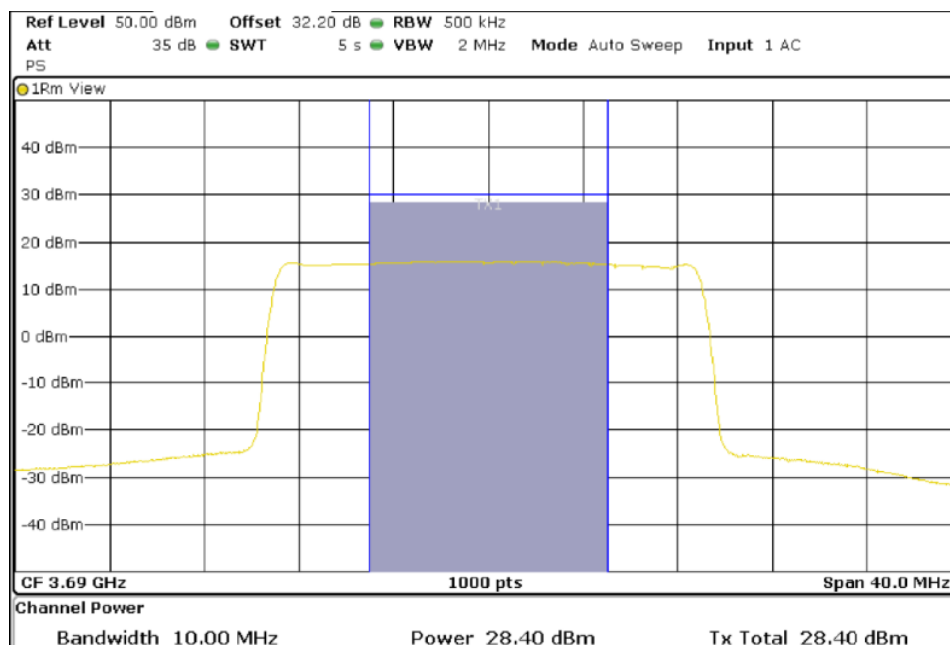


TEST RESULTS (Cont.):

Middle Channel (3625 MHz)



Highest Channel (3690 MHz)

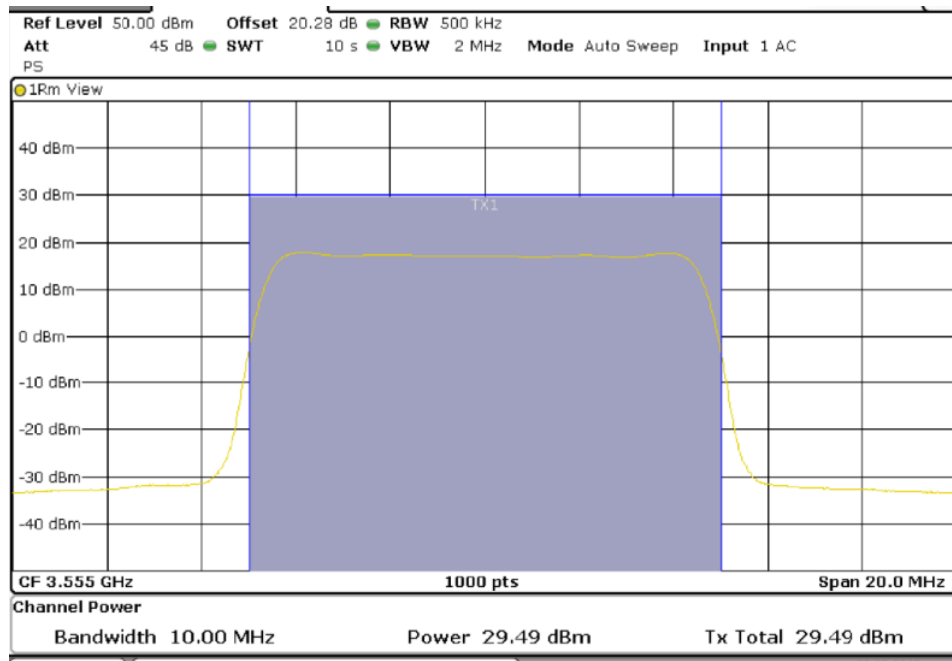


TEST RESULTS (Cont.):

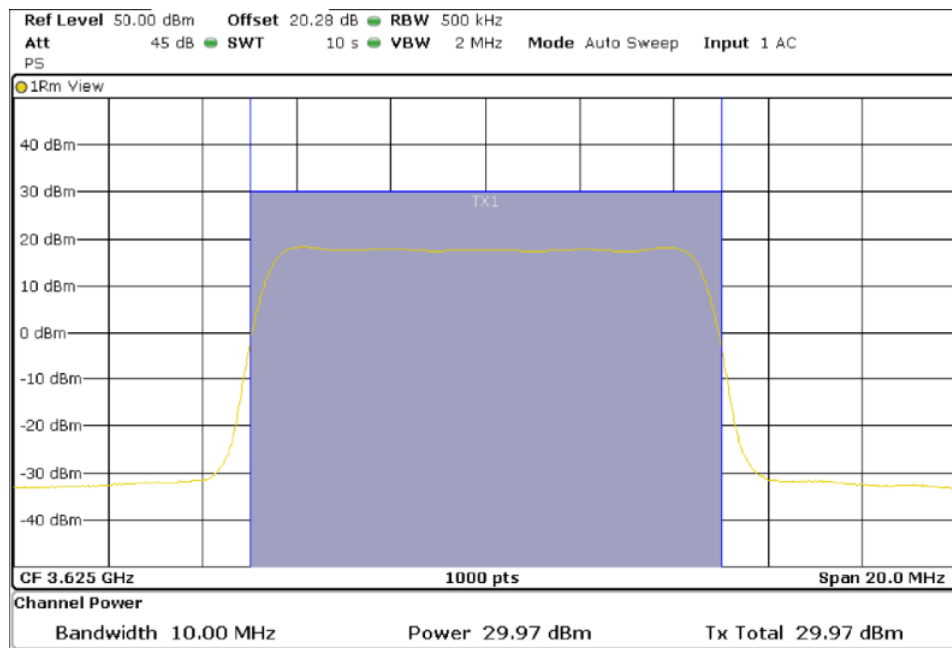
Port 4

10 MHz BW

Lowest Channel (3555 MHz)

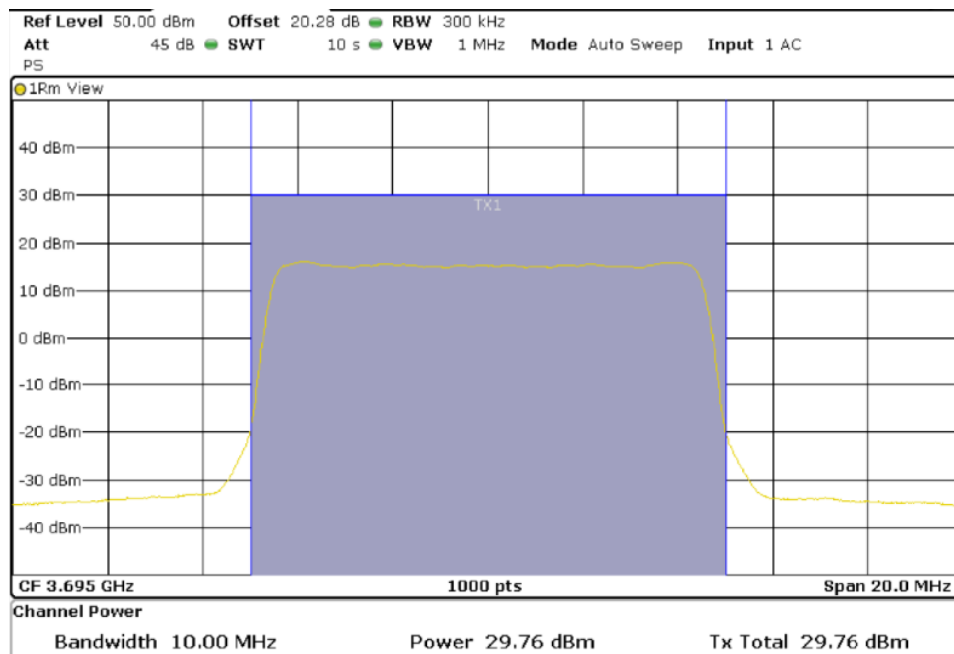


Middle Channel (3625 MHz)



TEST RESULTS (Cont.):

Highest Channel (3695 MHz)



20 MHz BW

Lowest Channel (3560 MHz)

