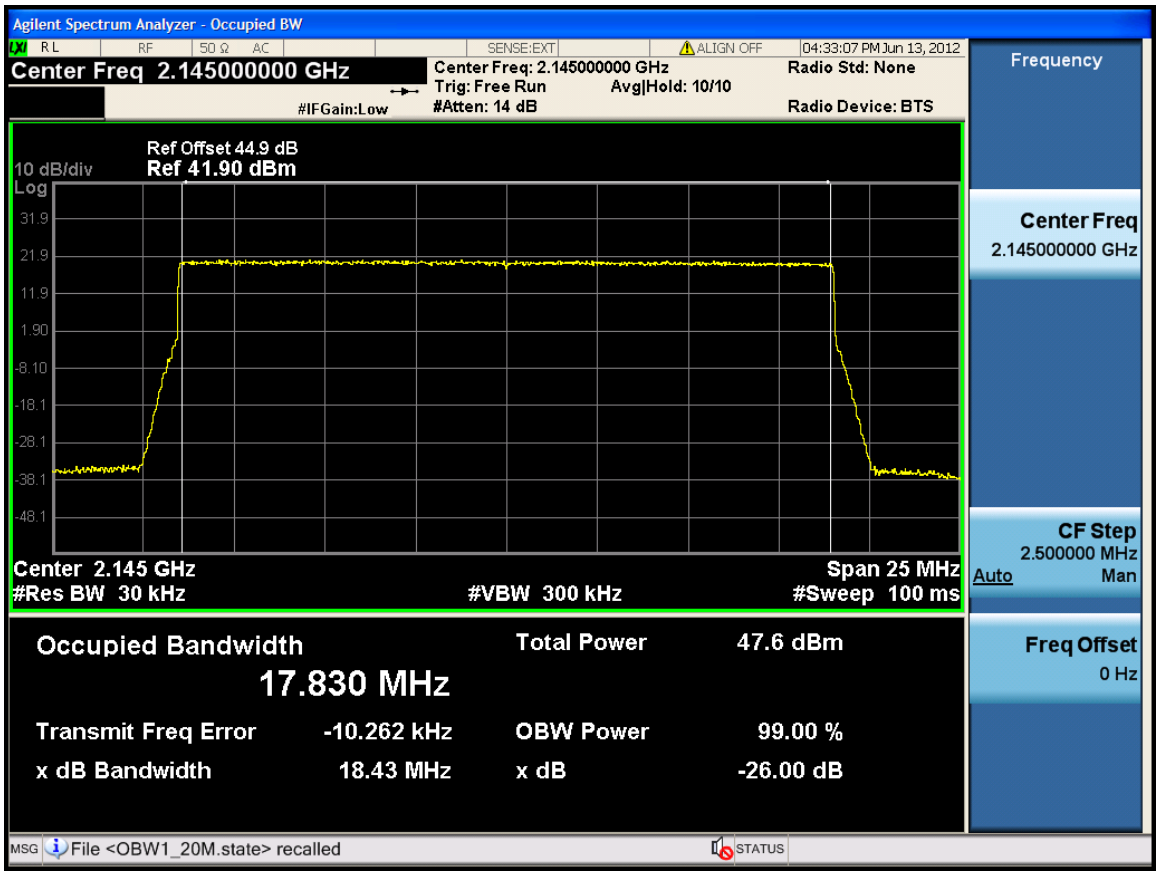
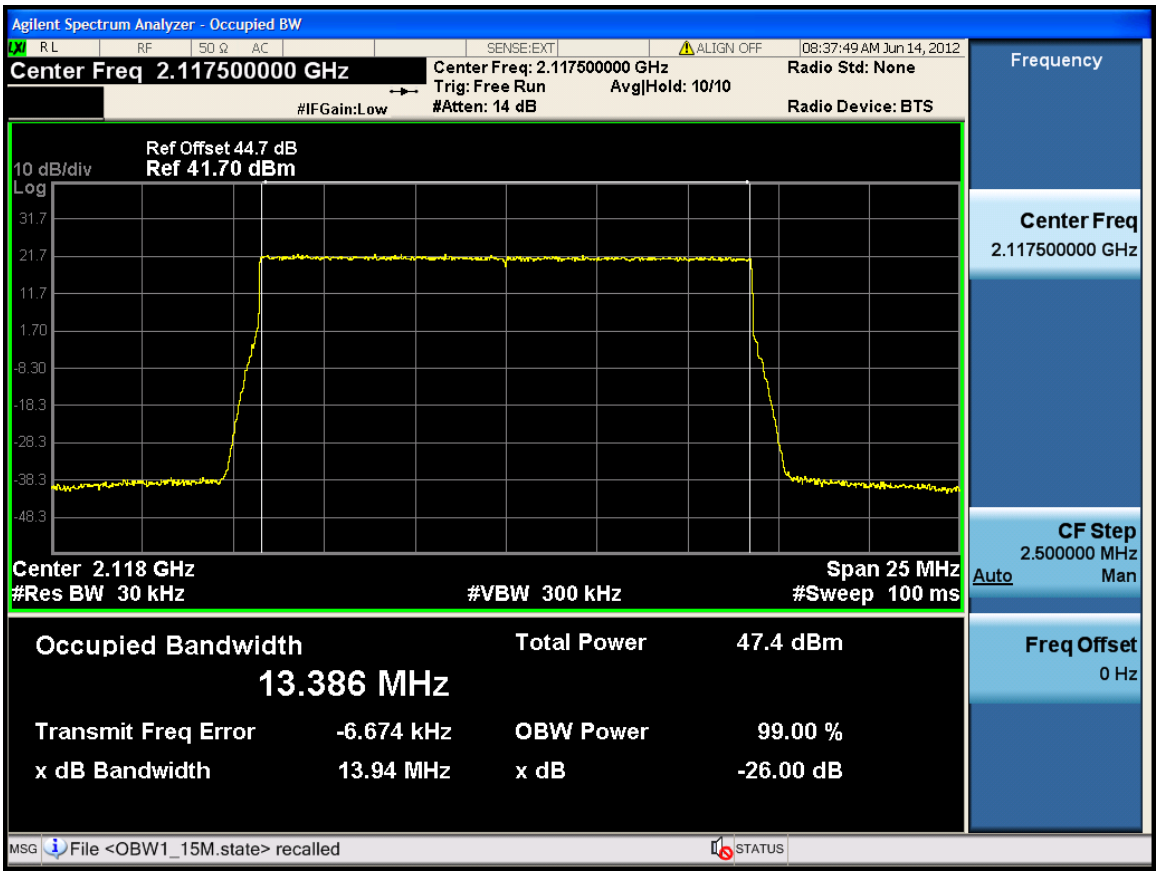


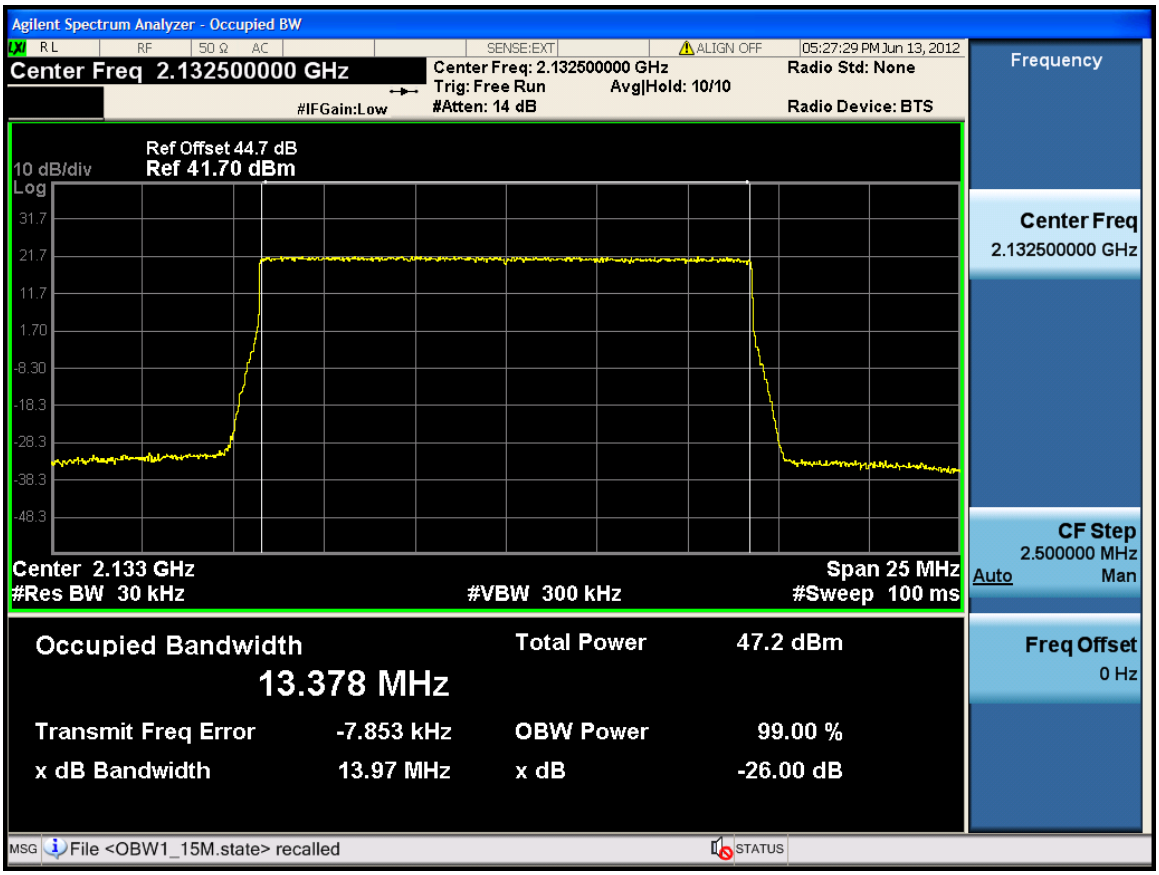
Channel Bandwidth :15M

Port	Center Freq. (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
1	2117.5	13.386	15
	2132.5	13.378	15
	2147.5	13.371	15
2	2117.5	13.387	15
	2132.5	13.383	15
	2147.5	13.831	15

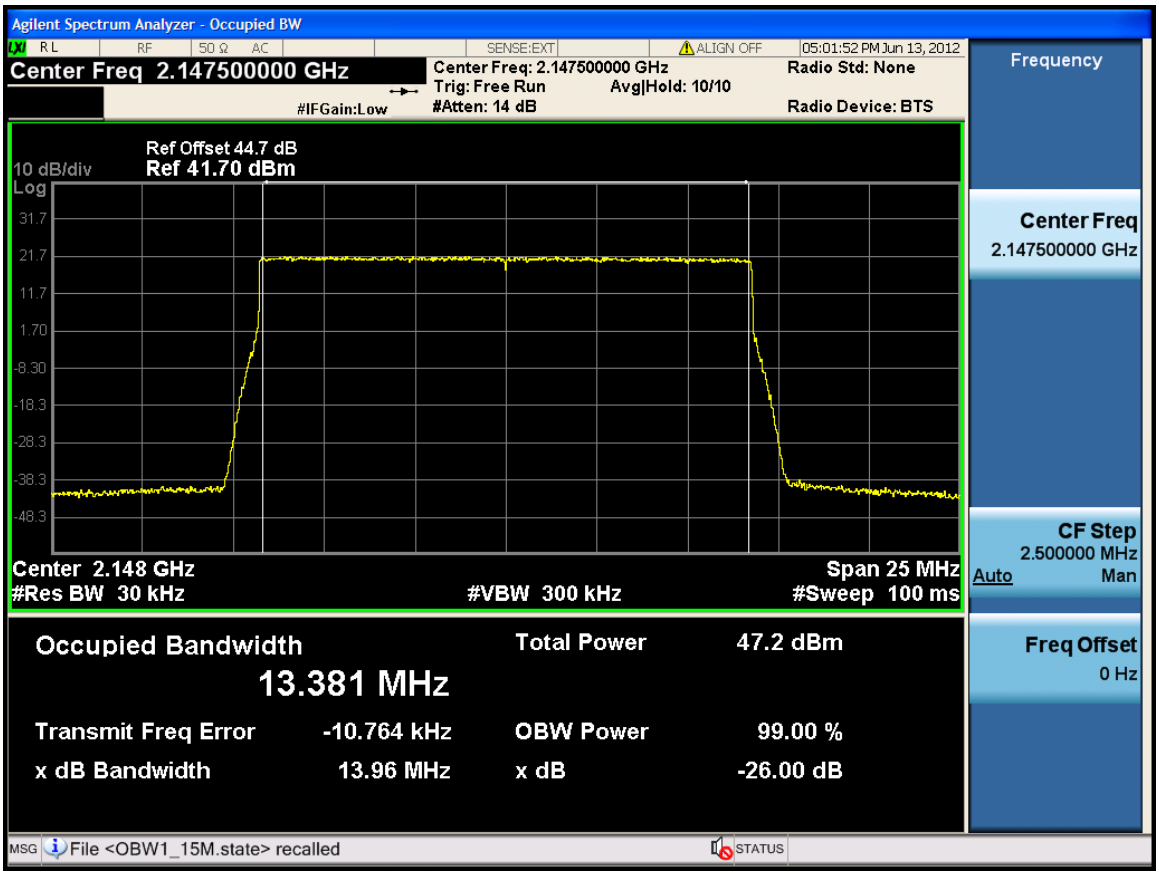
15M-Port 1 -2117.5MHz



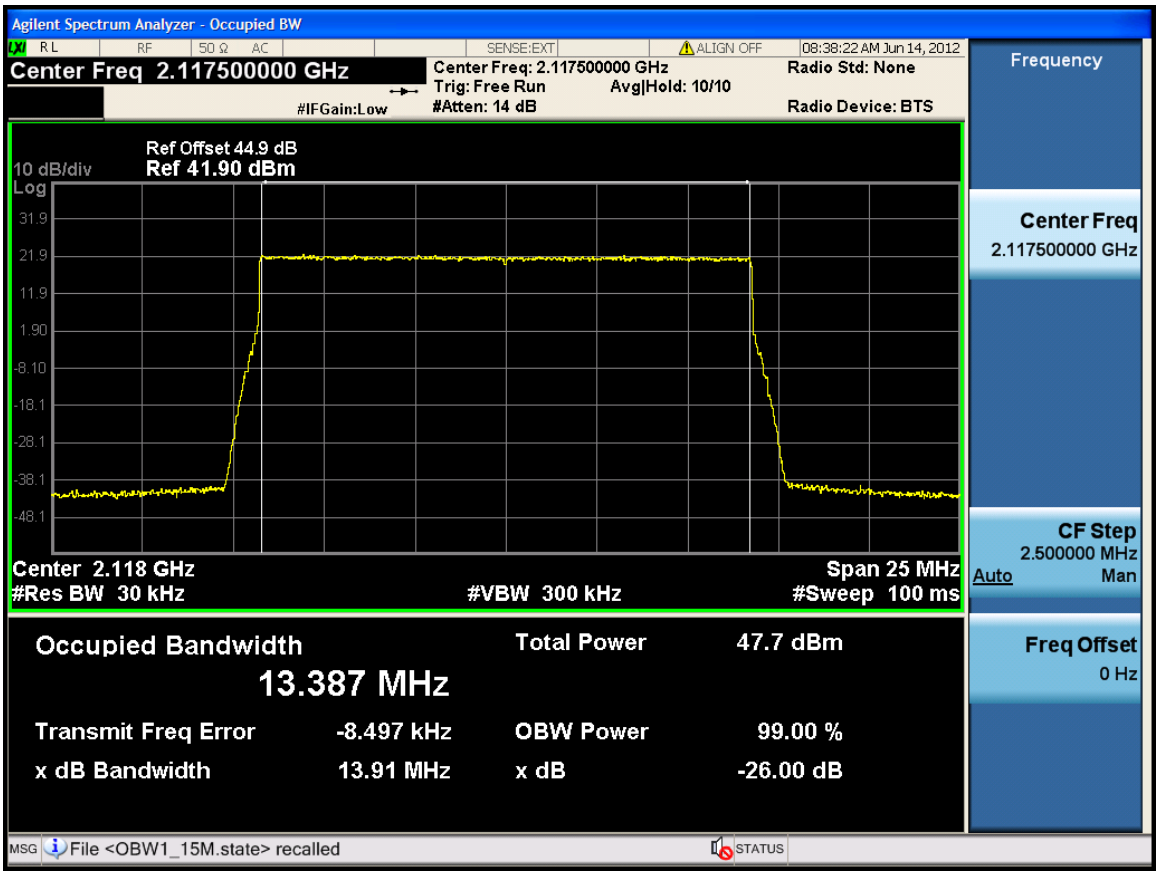
15M-Port 1 -2132.5MHz



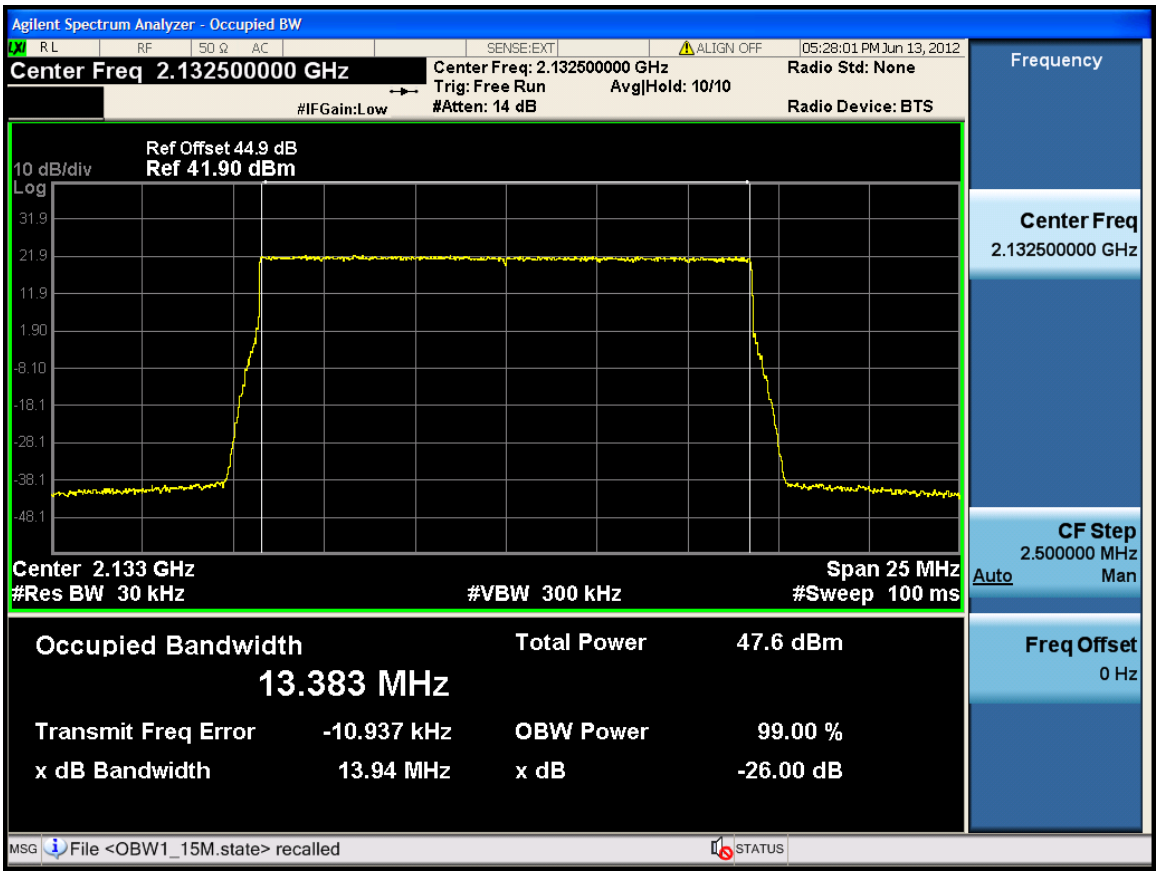
15M-Port 1 -2147.5MHz



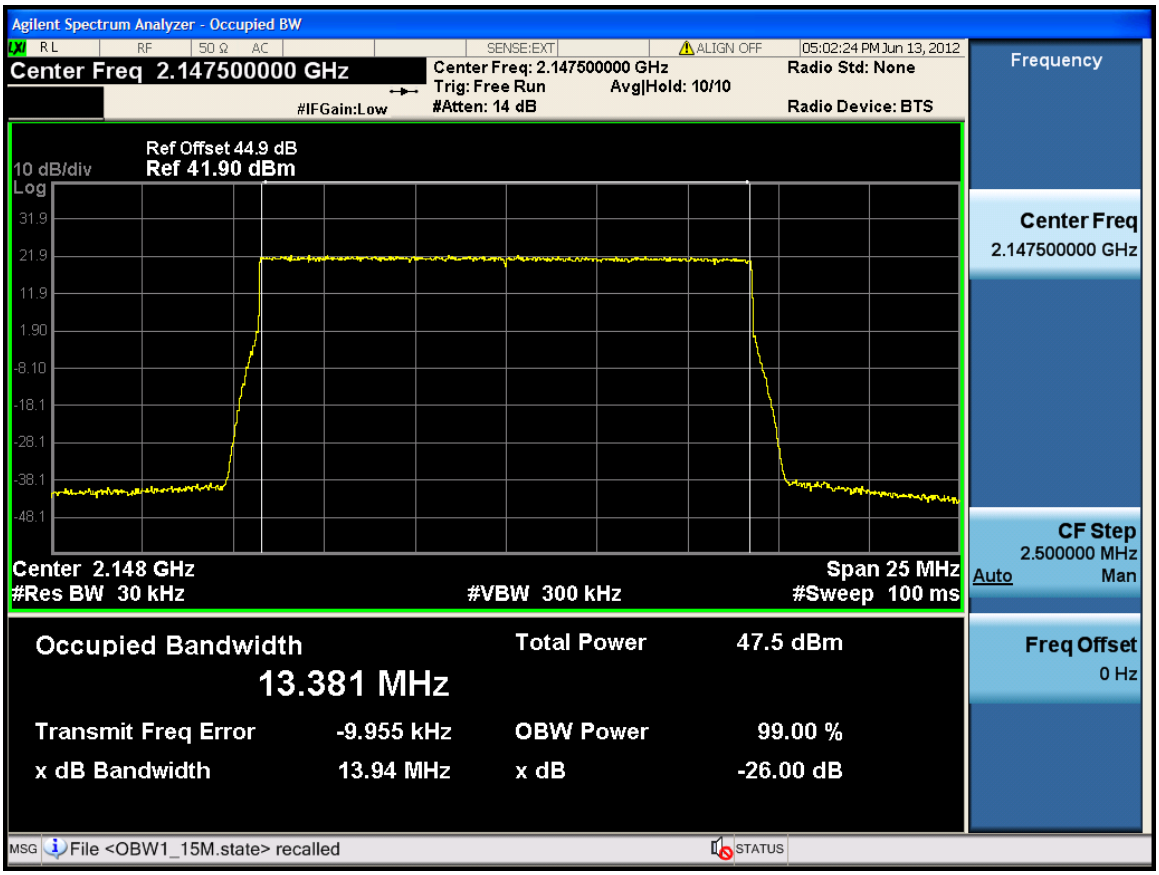
15M-Port 2-2117.5MHz



15M-Port 2 -2132.5MHz



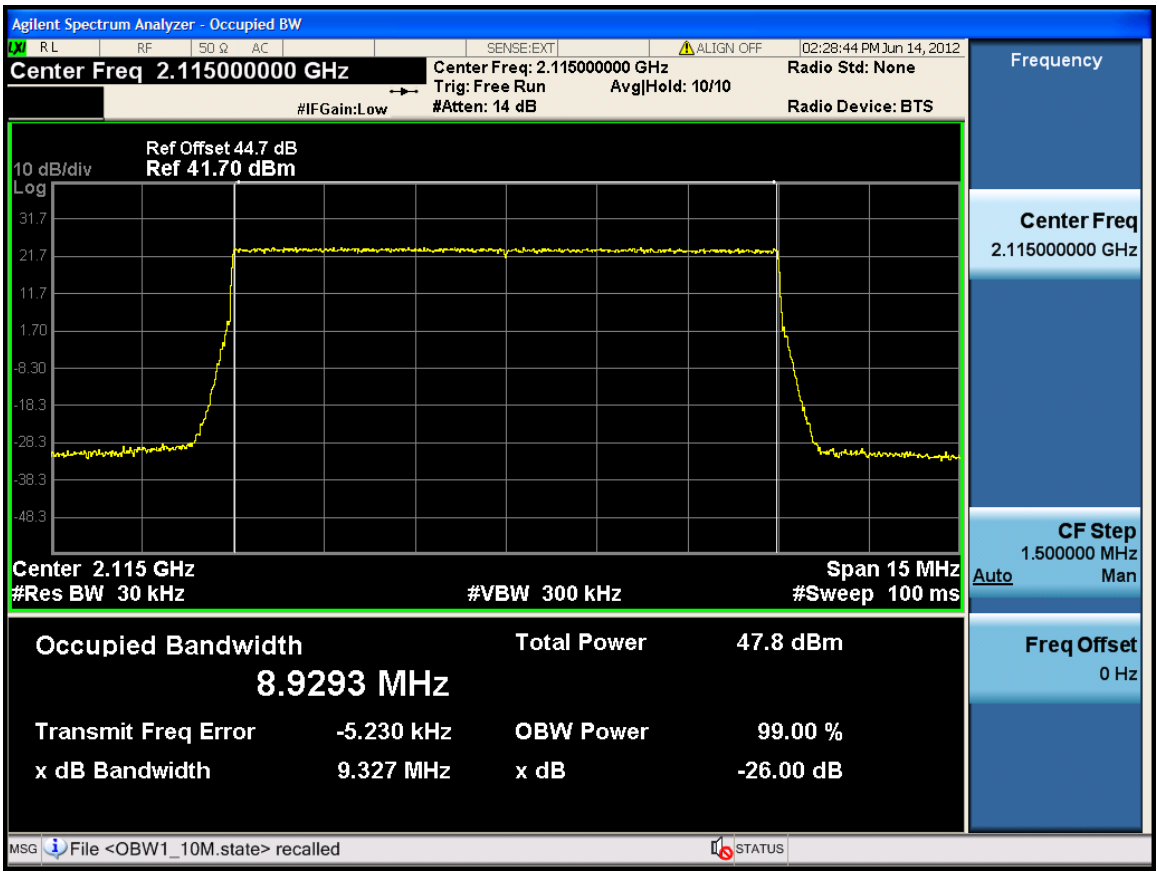
15M-Port 2 -2147.5MHz



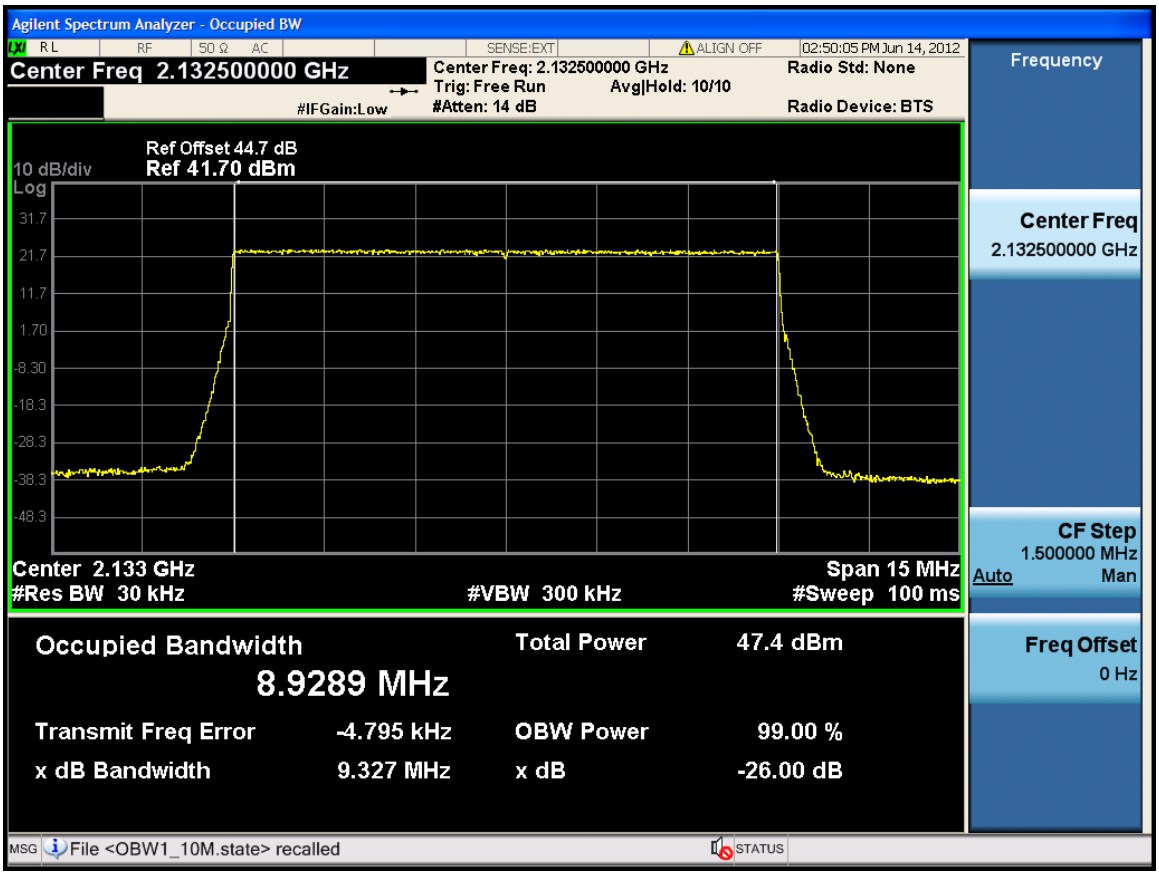
Channel Bandwidth :10M

Port	Center Freq. (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
1	2115	8.9293	10
	2132.5	8.9289	10
	2150	8.9263	10
2	2115	8.9276	10
	2132.5	8.9298	10
	2150	8.9280	10

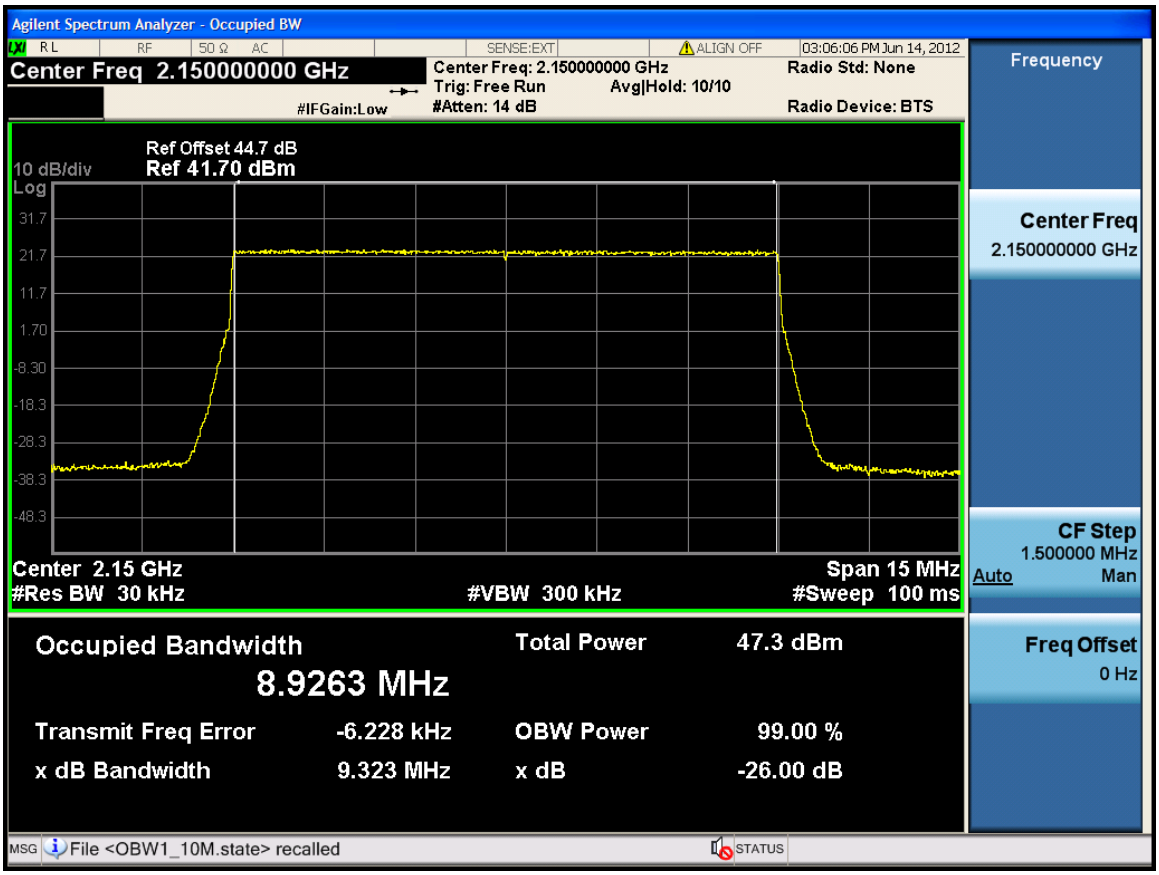
10M-Port 1 -2115MHz



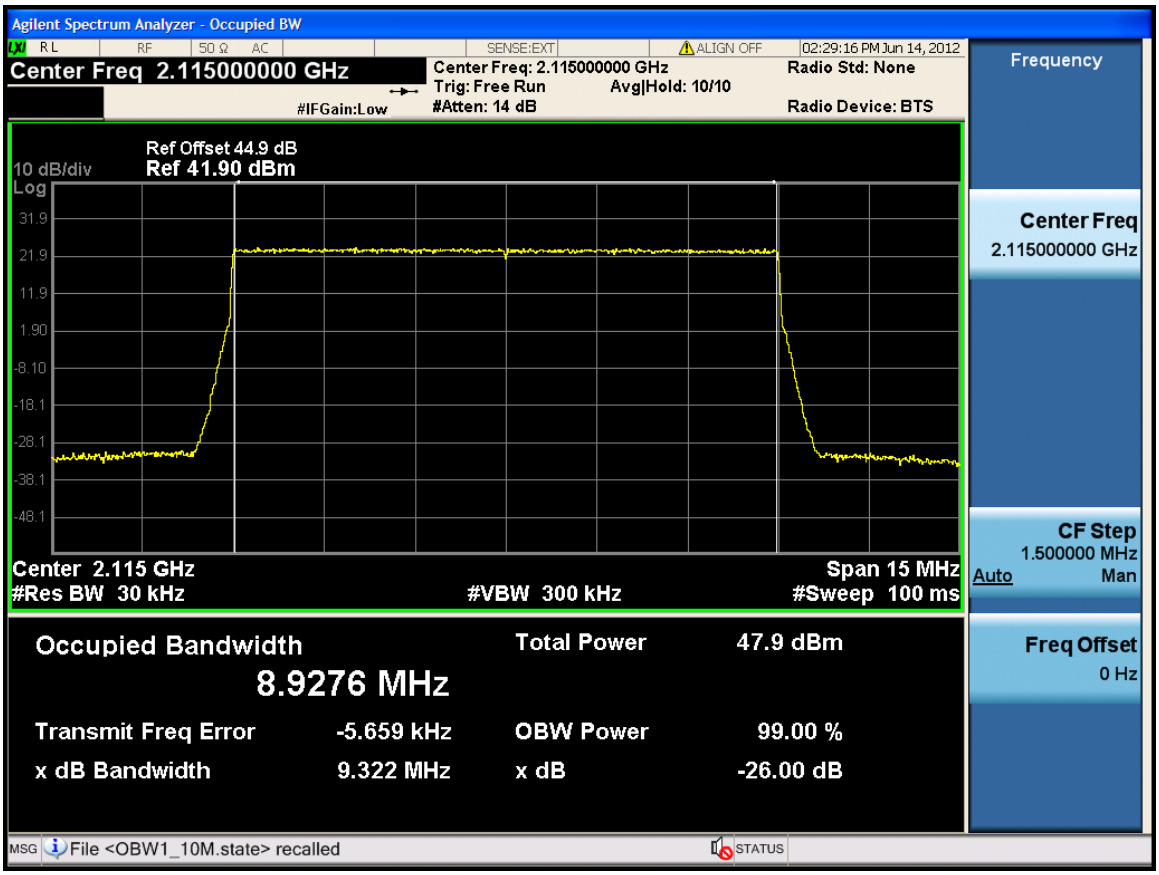
10M-Port 1 -2132.5MHz



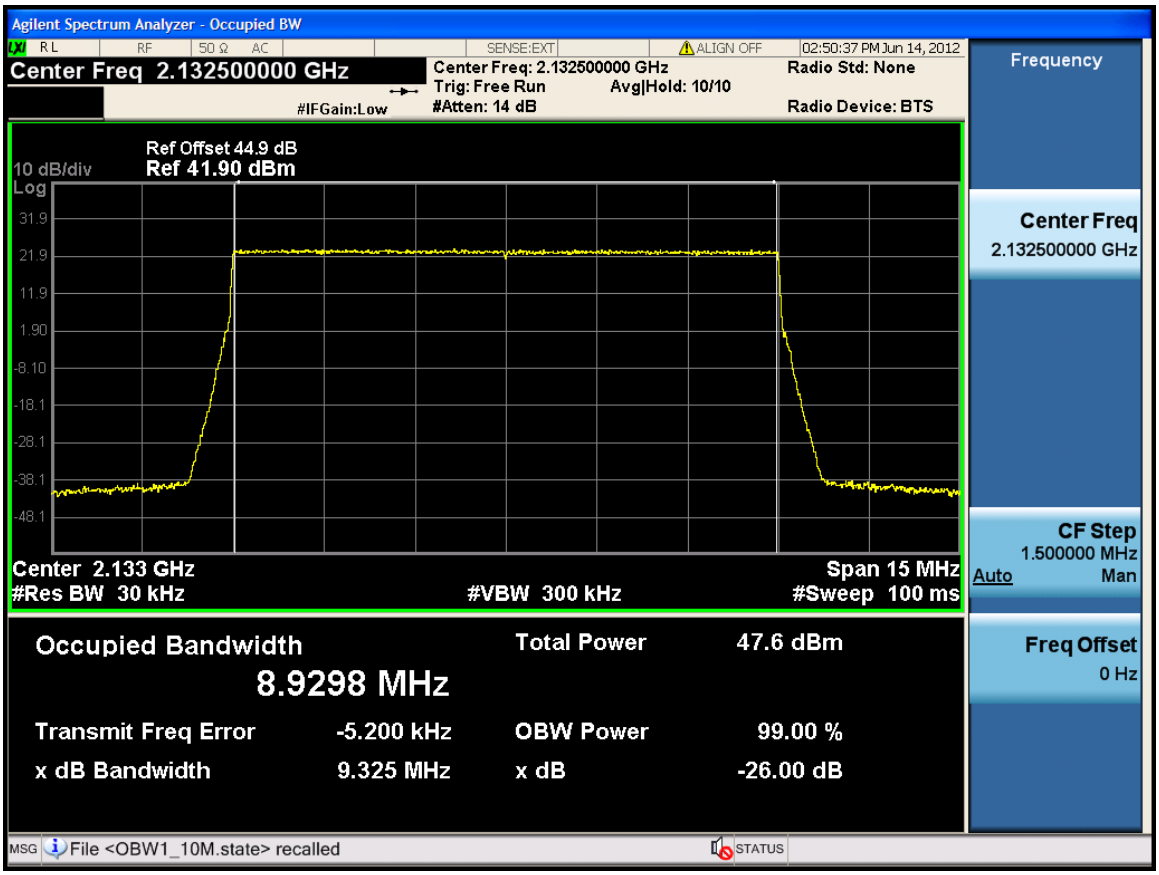
10M-Port 1 -2150MHz



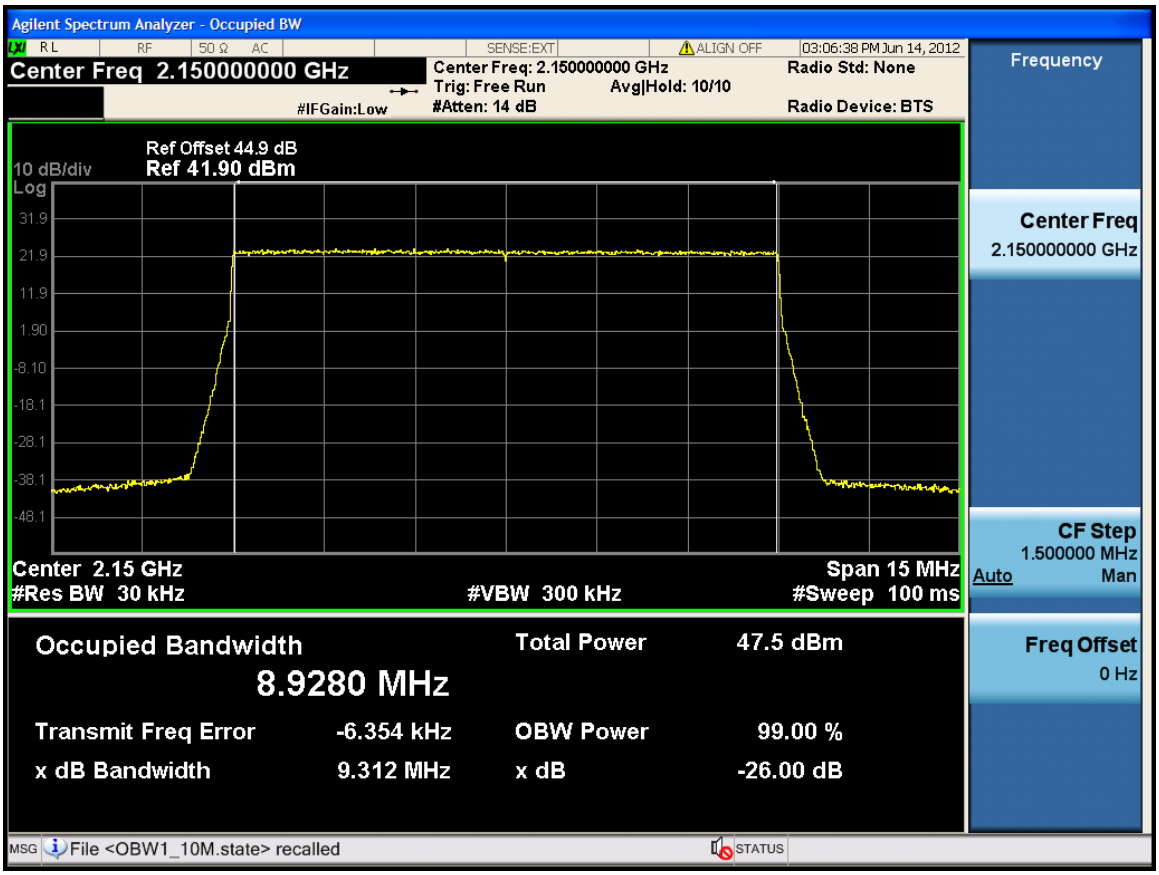
10M-Port 2 -2115MHz



10M-Port 2 -2132.5MHz



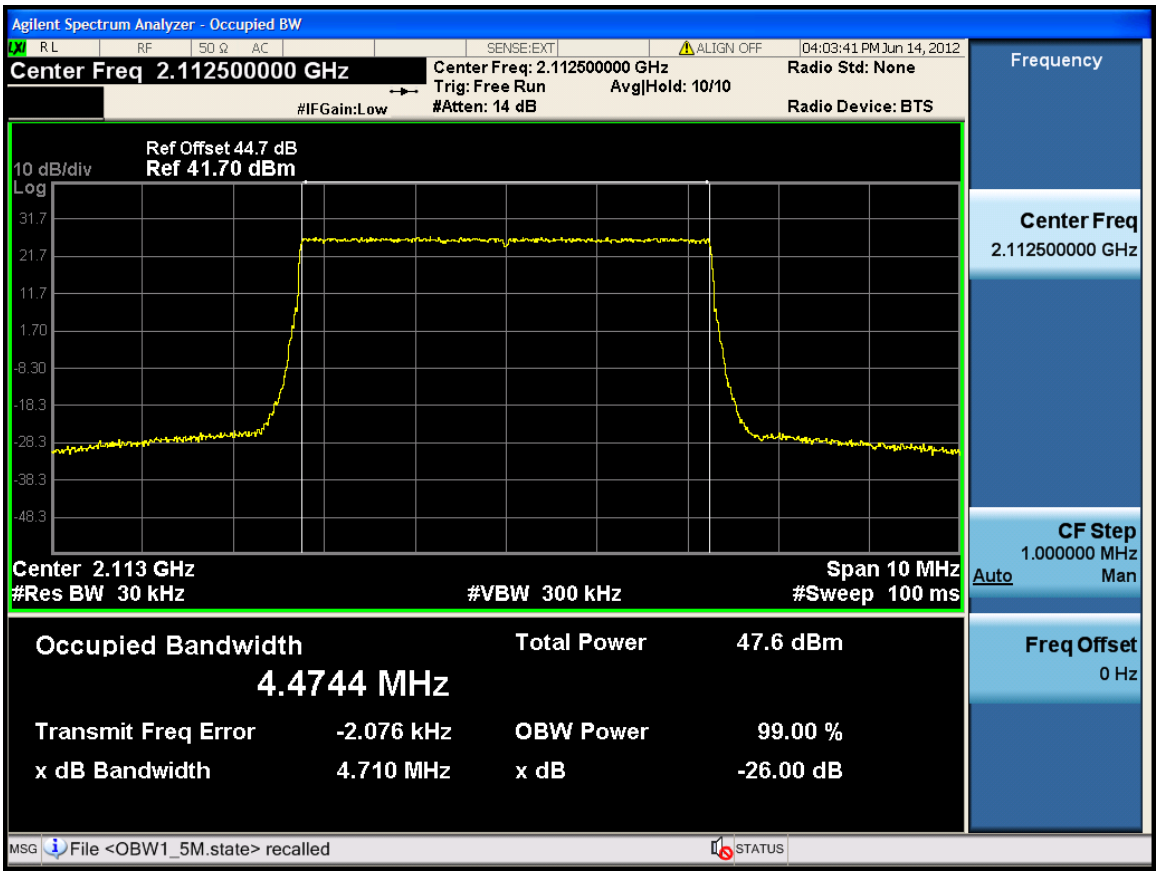
10M-Port 2 -2150MHz



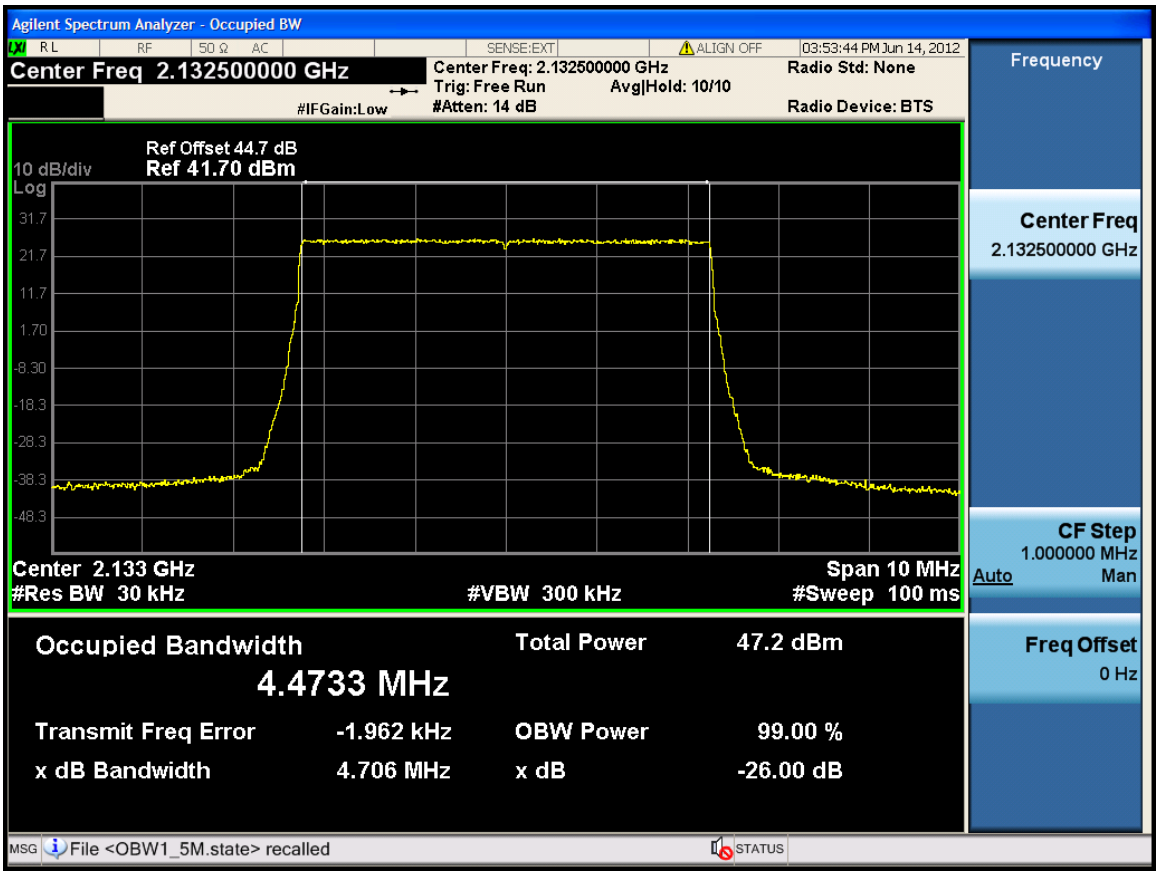
Channel Bandwidth :5M

Port	Center Freq. (MHz)	99% Power Bandwidth (MHz)	Limit (MHz)
1	2112.5	4.4744	5
	2132.5	4.4733	5
	2152.5	4.4734	5
2	2112.5	4.4749	5
	2132.5	4.4755	5
	2152.5	4.4730	5

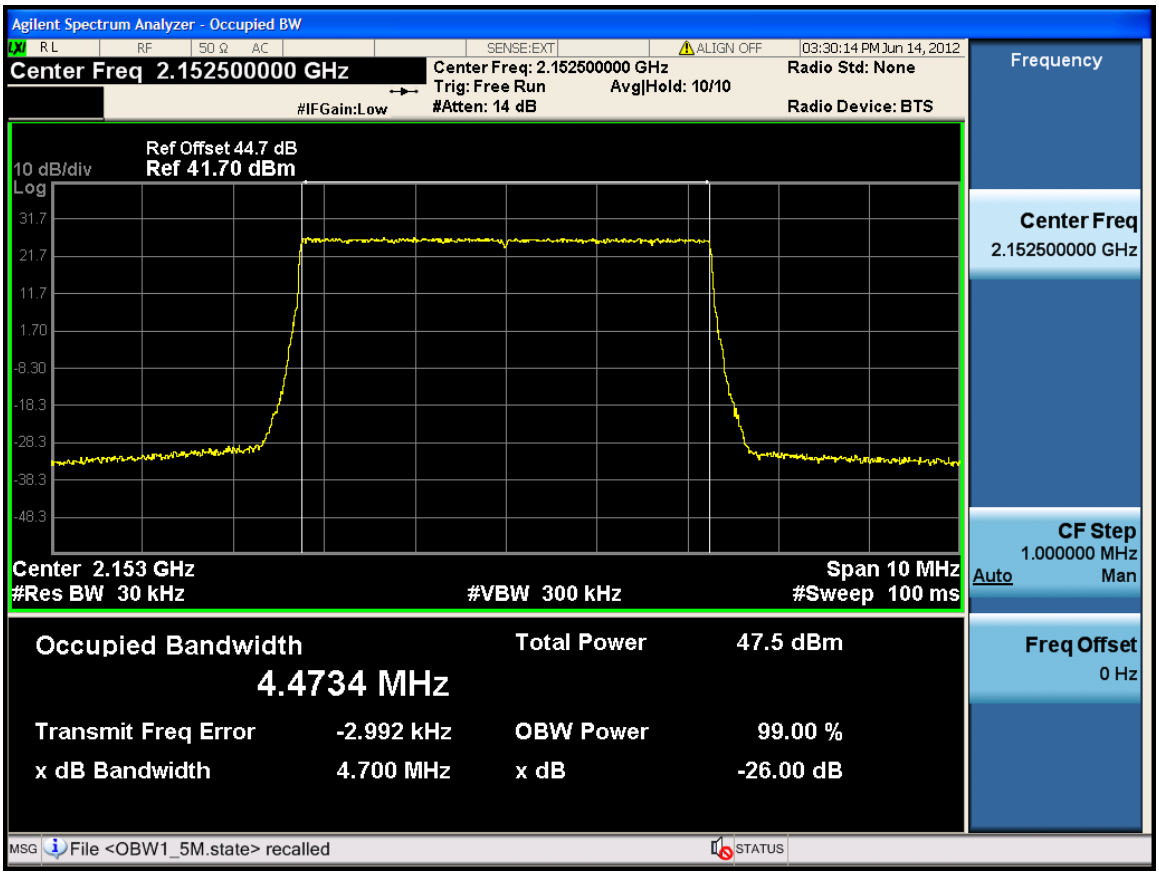
5M-Port 1 -2112.5MHz



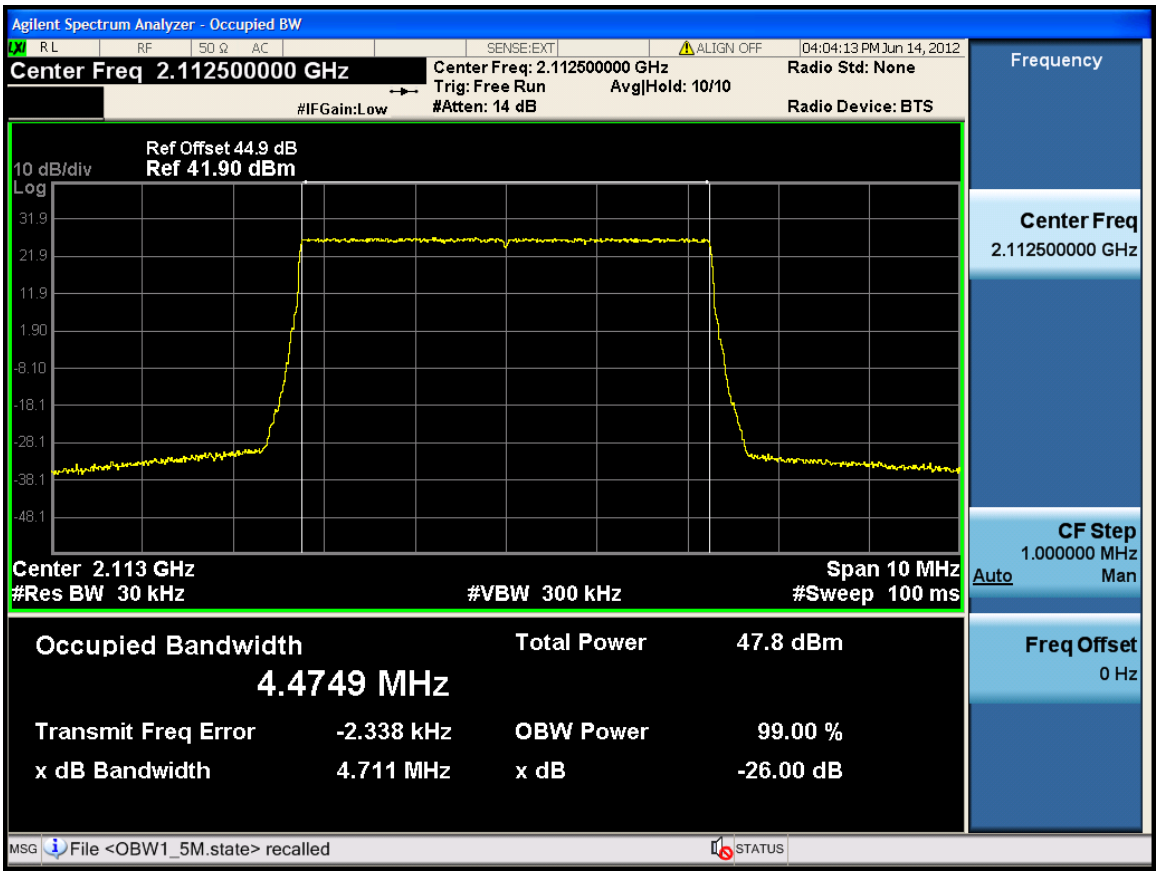
5M-Port 1 -2132.5MHz



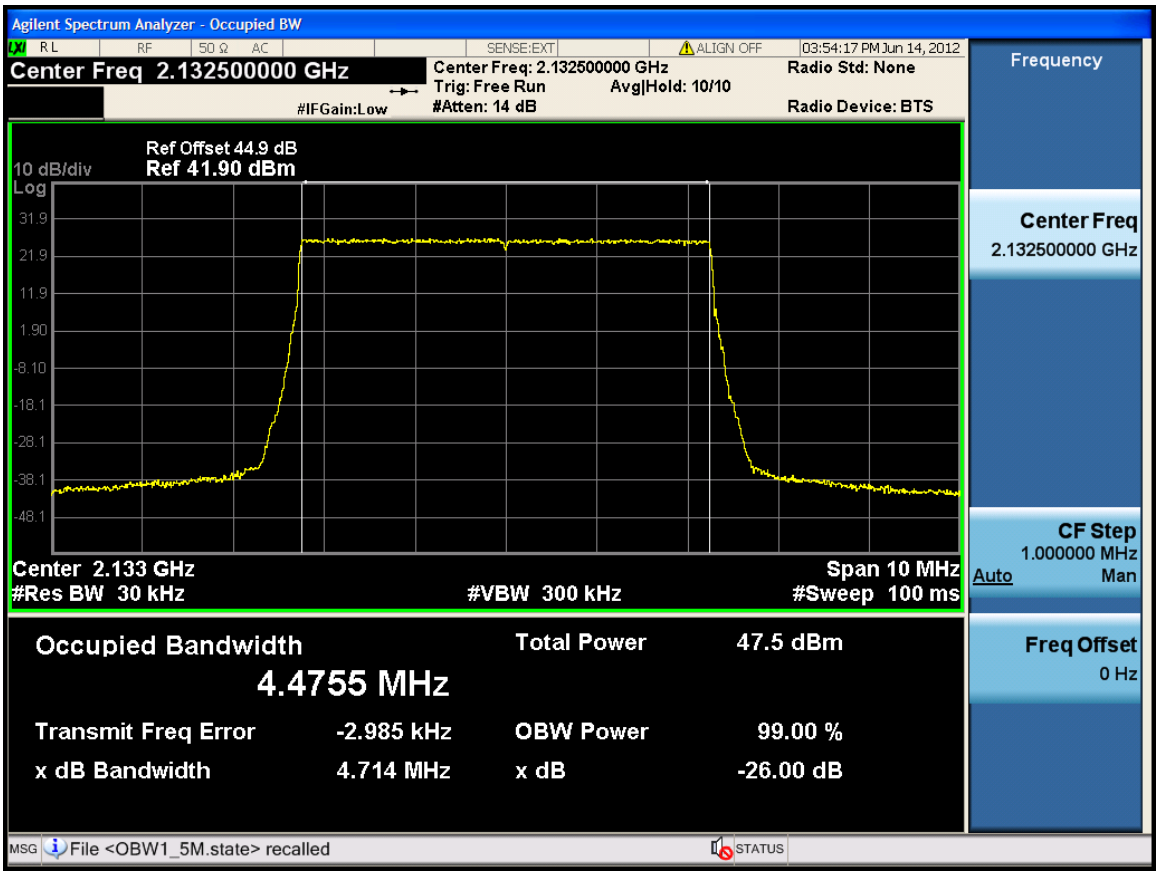
5M-Port 1 -2152.5MHz



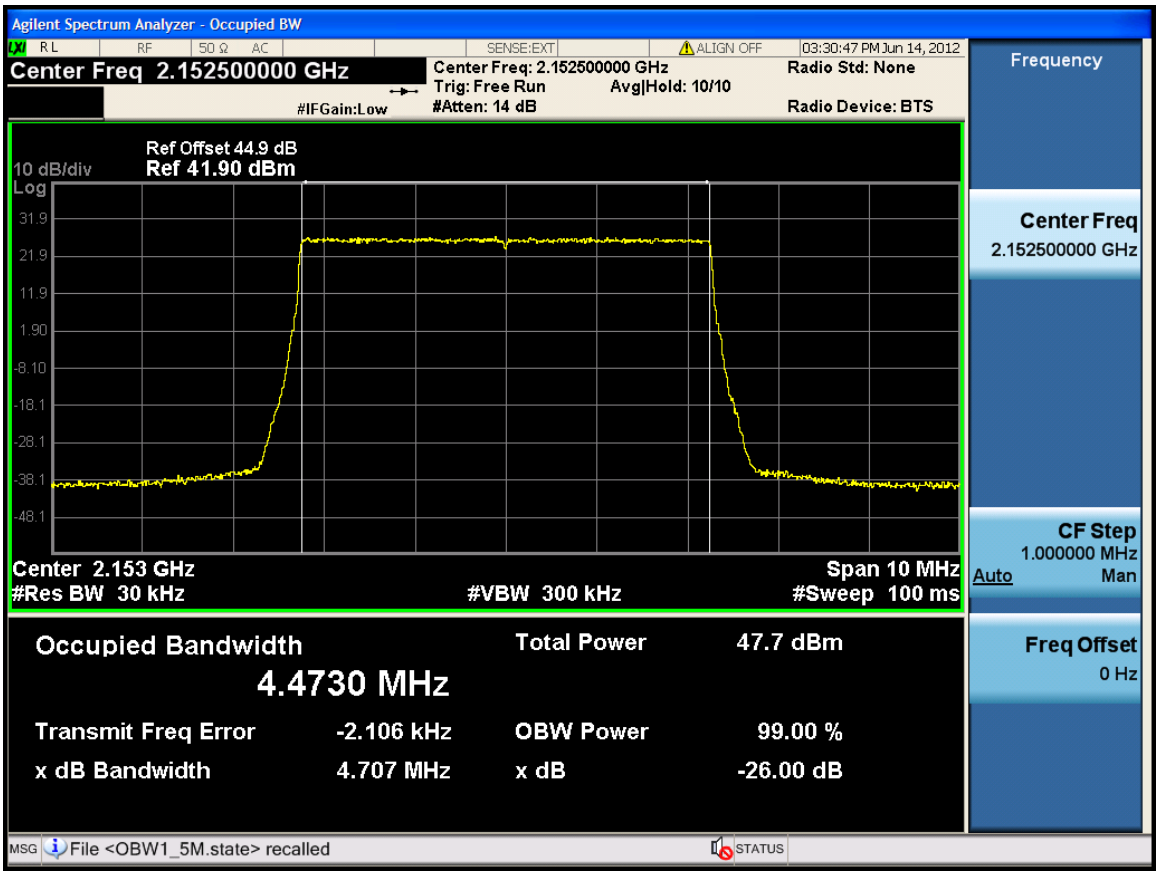
5M-Port 2 -2112.5MHz



5M-Port 2 -2132.5MHz



5M-Port 2 -2152.5MHz



7 TRANSMITTER FREQUENCY STABILITY

Applicable Standard: RSS139 § 6.3;RSS-Gen

The applicant shall ensure frequency stability by showing that the occupied bandwidth is maintained within the range of the operating frequency blocks when testing under the temperature and supply voltage variations specified for the frequency stability measurement in RSS-Gen.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GZ-ESPEC	Temperature Chamber	EW0470	06113028	2014.08.25	2015.08.25

Agilent	PXA Series Spectrum Analyzer	N9030A	MY49431143	2014.09.16	2015.09.16
DTS	DTS 40dB Attenuator	DTS100-40-3-1	201312160104	2014.09.16	2015.09.16

***statement of traceability:** The Reliability Testing Center attest that all calibration have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and the RF output was connected to a Spectrum Analyzer via feed-through attenuators. The EUT was placed inside the temperature chamber. The DC leads and RF output cable exited the chamber through an opening made for the purpose.
After the temperature stabilized for approximately 150 minutes, the frequency output was recorded from the counter.
Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.

Environmental Conditions

Normal condition:	25° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Test Result: Pass

Test Mode: Transmitting LTE

Test Data

Frequency Stability Versus Temperature

Frequency Stability vs Temperature（Channel Bandwidth:20M Frequency :2120MHz）

Temperature (℃)	Power Supplied (V_{DC})	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
-40	-48	1	0.323	TM2.0	0.05	105.5	PASS
			0.293	TM3.1	0.05	105.5	PASS
			0.383	TM3.2	0.05	105.5	PASS
			0.246	TM3.3	0.05	105.5	PASS
		2	0.205	TM2.0	0.05	105.5	PASS
			0.340	TM3.1	0.05	105.5	PASS
			0.219	TM3.2	0.05	105.5	PASS
			1.575	TM3.3	0.05	105.5	PASS
-30		1	1.117	TM2.0	0.05	105.5	PASS
			0.304	TM3.1	0.05	105.5	PASS
			0.241	TM3.2	0.05	105.5	PASS
			0.282	TM3.3	0.05	105.5	PASS
		2	0.372	TM2.0	0.05	105.5	PASS
			0.571	TM3.1	0.05	105.5	PASS
			0.524	TM3.2	0.05	105.5	PASS
			0.328	TM3.3	0.05	105.5	PASS
		2	0.162	TM2.0	0.05	105.5	PASS
			0.292	TM3.1	0.05	105.5	PASS
			0.497	TM3.2	0.05	105.5	PASS
			0.269	TM3.3	0.05	105.5	PASS
20		1	1.432	TM2.0	0.05	105.5	PASS
			0.532	TM3.1	0.05	105.5	PASS
			2.564	TM3.2	0.05	105.5	PASS
			1.113	TM3.3	0.05	105.5	PASS
		2	0.678	TM2.0	0.05	105.5	PASS
			0.156	TM3.1	0.05	105.5	PASS
			0.419	TM3.2	0.05	105.5	PASS
			0.132	TM3.3	0.05	105.5	PASS
50		1	1.821	TM2.0	0.05	105.5	PASS
			0.326	TM3.1	0.05	105.5	PASS
			1.264	TM3.2	0.05	105.5	PASS
			0.716	TM3.3	0.05	105.5	PASS
		2	1.678	TM2.0	0.05	105.5	PASS
			1.325	TM3.1	0.05	105.5	PASS
			1.010	TM3.2	0.05	105.5	PASS
			0.828	TM3.3	0.05	105.5	PASS

55		1	0.867	TM2.0	0.05	105.5	PASS
			0.512	TM3.1	0.05	105.5	PASS
			0.338	TM3.2	0.05	105.5	PASS
			0.217	TM3.3	0.05	105.5	PASS
		2	1.857	TM2.0	0.05	105.5	PASS
			1.154	TM3.1	0.05	105.5	PASS
			1.010	TM3.2	0.05	105.5	PASS
			0.854	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:20M Frequency :2132.5MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	0.338	TM2.0	0.05	105.5	PASS
			1.121	TM3.1	0.05	105.5	PASS
			0.287	TM3.2	0.05	105.5	PASS
			1.558	TM3.3	0.05	105.5	PASS
		2	1.515	TM2.0	0.05	105.5	PASS
			1.318	TM3.1	0.05	105.5	PASS
			0.123	TM3.2	0.05	105.5	PASS
			0.701	TM3.3	0.05	105.5	PASS
-30		1	0.912	TM2.0	0.05	105.5	PASS
			1.301	TM3.1	0.05	105.5	PASS
			1.970	TM3.2	0.05	105.5	PASS
			0.527	TM3.3	0.05	105.5	PASS
		2	0.182	TM2.0	0.05	105.5	PASS
			0.071	TM3.1	0.05	105.5	PASS
			1.532	TM3.2	0.05	105.5	PASS
			2.328	TM3.3	0.05	105.5	PASS
20		1	1.345	TM2.0	0.05	105.5	PASS
			0.521	TM3.1	0.05	105.5	PASS
			1.437	TM3.2	0.05	105.5	PASS
			0.118	TM3.3	0.05	105.5	PASS
		2	1.705	TM2.0	0.05	105.5	PASS
			0.107	TM3.1	0.05	105.5	PASS
			1.527	TM3.2	0.05	105.5	PASS
			1.055	TM3.3	0.05	105.5	PASS
50		1	1.884	TM2.0	0.05	105.5	PASS

			0.355	TM3.1	0.05	105.5	PASS
			1.205	TM3.2	0.05	105.5	PASS
			1.817	TM3.3	0.05	105.5	PASS
		2	0.021	TM2.0	0.05	105.5	PASS
			0.273	TM3.1	0.05	105.5	PASS
			1.025	TM3.2	0.05	105.5	PASS
			0.859	TM3.3	0.05	105.5	PASS
55		1	0.725	TM2.0	0.05	105.5	PASS
			0.367	TM3.1	0.05	105.5	PASS
			0.435	TM3.2	0.05	105.5	PASS
			0.627	TM3.3	0.05	105.5	PASS
		2	0.174	TM2.0	0.05	105.5	PASS
			0.135	TM3.1	0.05	105.5	PASS
			0.128	TM3.2	0.05	105.5	PASS
			0.336	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:20M Frequency :2145MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	1.852	TM2.0	0.05	105.5	PASS
			1.223	TM3.1	0.05	105.5	PASS
			0.577	TM3.2	0.05	105.5	PASS
			0.109	TM3.3	0.05	105.5	PASS
		2	0.512	TM2.0	0.05	105.5	PASS
			0.331	TM3.1	0.05	105.5	PASS
			0.410	TM3.2	0.05	105.5	PASS
			0.156	TM3.3	0.05	105.5	PASS
-30		1	1.815	TM2.0	0.05	105.5	PASS
			0.305	TM3.1	0.05	105.5	PASS
			0.312	TM3.2	0.05	105.5	PASS
			2.541	TM3.3	0.05	105.5	PASS
		2	1.308	TM2.0	0.05	105.5	PASS
			0.250	TM3.1	0.05	105.5	PASS
			1.018	TM3.2	0.05	105.5	PASS
			2.308	TM3.3	0.05	105.5	PASS
20		1	0.176	TM2.0	0.05	105.5	PASS
			0.012	TM3.1	0.05	105.5	PASS

			1.571	TM3.2	0.05	105.5	PASS
			0.017	TM3.3	0.05	105.5	PASS
		2	1.052	TM2.0	0.05	105.5	PASS
			1.107	TM3.1	0.05	105.5	PASS
			0.457	TM3.2	0.05	105.5	PASS
			0.964	TM3.3	0.05	105.5	PASS
50		1	1.547	TM2.0	0.05	105.5	PASS
			0.365	TM3.1	0.05	105.5	PASS
			0.265	TM3.2	0.05	105.5	PASS
			1.824	TM3.3	0.05	105.5	PASS
		2	2.028	TM2.0	0.05	105.5	PASS
			0.207	TM3.1	0.05	105.5	PASS
			1.716	TM3.2	0.05	105.5	PASS
			0.642	TM3.3	0.05	105.5	PASS
55		1	1.152	TM2.0	0.05	105.5	PASS
			1.307	TM3.1	0.05	105.5	PASS
			1.434	TM3.2	0.05	105.5	PASS
			0.672	TM3.3	0.05	105.5	PASS
		2	0.154	TM2.0	0.05	105.5	PASS
			2.108	TM3.1	0.05	105.5	PASS
			1.161	TM3.2	0.05	105.5	PASS
			1.324	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:15M　Frequency :2117.5MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	0.223	TM2.0	0.05	105.5	PASS
			0.193	TM3.1	0.05	105.5	PASS
			0.281	TM3.2	0.05	105.5	PASS
			0.226	TM3.3	0.05	105.5	PASS
		2	0.225	TM2.0	0.05	105.5	PASS
			0.248	TM3.1	0.05	105.5	PASS
			0.119	TM3.2	0.05	105.5	PASS
			1.550	TM3.3	0.05	105.5	PASS
-30		1	0.117	TM2.0	0.05	105.5	PASS
			0.334	TM3.1	0.05	105.5	PASS
			0.047	TM3.2	0.05	105.5	PASS

			0.382	TM3.3	0.05	105.5	PASS
		2	0.172	TM2.0	0.05	105.5	PASS
			0.778	TM3.1	0.05	105.5	PASS
			0.534	TM3.2	0.05	105.5	PASS
			0.228	TM3.3	0.05	105.5	PASS
20		1	0.100	TM2.0	0.05	105.5	PASS
			0.333	TM3.1	0.05	105.5	PASS
			0.264	TM3.2	0.05	105.5	PASS
			0.815	TM3.3	0.05	105.5	PASS
		2	1.090	TM2.0	0.05	105.5	PASS
			1.121	TM3.1	0.05	105.5	PASS
			1.018	TM3.2	0.05	105.5	PASS
			1.412	TM3.3	0.05	105.5	PASS
50		1	1.801	TM2.0	0.05	105.5	PASS
			1.324	TM3.1	0.05	105.5	PASS
			0.264	TM3.2	0.05	105.5	PASS
			0.815	TM3.3	0.05	105.5	PASS
		2	1.999	TM2.0	0.05	105.5	PASS
			1.123	TM3.1	0.05	105.5	PASS
			0.010	TM3.2	0.05	105.5	PASS
			0.853	TM3.3	0.05	105.5	PASS
55		1	0.822	TM2.0	0.05	105.5	PASS
			1.511	TM3.1	0.05	105.5	PASS
			0.330	TM3.2	0.05	105.5	PASS
			0.715	TM3.3	0.05	105.5	PASS
		2	1.999	TM2.0	0.05	105.5	PASS
			1.123	TM3.1	0.05	105.5	PASS
			0.010	TM3.2	0.05	105.5	PASS
			0.853	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:15M　Frequency :2132.5MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	1.320	TM2.0	0.05	105.5	PASS
			1.193	TM3.1	0.05	105.5	PASS
			1.211	TM3.2	0.05	105.5	PASS
			0.521	TM3.3	0.05	105.5	PASS

		2	0.515	TM2.0	0.05	105.5	PASS
			0.318	TM3.1	0.05	105.5	PASS
			1.121	TM3.2	0.05	105.5	PASS
			0.700	TM3.3	0.05	105.5	PASS
-30		1	0.817	TM2.0	0.05	105.5	PASS
			1.331	TM3.1	0.05	105.5	PASS
			1.940	TM3.2	0.05	105.5	PASS
			0.587	TM3.3	0.05	105.5	PASS
		2	1.172	TM2.0	0.05	105.5	PASS
			1.001	TM3.1	0.05	105.5	PASS
			0.502	TM3.2	0.05	105.5	PASS
			0.358	TM3.3	0.05	105.5	PASS
20		1	1.186	TM2.0	0.05	105.5	PASS
			2.334	TM3.1	0.05	105.5	PASS
			0.268	TM3.2	0.05	105.5	PASS
			0.915	TM3.3	0.05	105.5	PASS
		2	2.098	TM2.0	0.05	105.5	PASS
			1.135	TM3.1	0.05	105.5	PASS
			1.456	TM3.2	0.05	105.5	PASS
			1.284	TM3.3	0.05	105.5	PASS
50		1	2.804	TM2.0	0.05	105.5	PASS
			0.325	TM3.1	0.05	105.5	PASS
			1.265	TM3.2	0.05	105.5	PASS
			0.815	TM3.3	0.05	105.5	PASS
		2	2.021	TM2.0	0.05	105.5	PASS
			1.200	TM3.1	0.05	105.5	PASS
			1.015	TM3.2	0.05	105.5	PASS
			0.059	TM3.3	0.05	105.5	PASS
55		1	1.028	TM2.0	0.05	105.5	PASS
			1.355	TM3.1	0.05	105.5	PASS
			0.488	TM3.2	0.05	105.5	PASS
			0.664	TM3.3	0.05	105.5	PASS
		2	1.125	TM2.0	0.05	105.5	PASS
			1.150	TM3.1	0.05	105.5	PASS
			0.170	TM3.2	0.05	105.5	PASS
			0.354	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:15M　Frequency :2147.5MHz）

Temperature (℃)	Power Supplied (V_{DC})	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
-40	-48	1	0.012	TM2.0	0.05	105.5	PASS
			0.265	TM3.1	0.05	105.5	PASS
			2.576	TM3.2	0.05	105.5	PASS
			0.569	TM3.3	0.05	105.5	PASS
		2	1.517	TM2.0	0.05	105.5	PASS
			1.321	TM3.1	0.05	105.5	PASS
			0.010	TM3.2	0.05	105.5	PASS
			2.056	TM3.3	0.05	105.5	PASS
-30		1	0.817	TM2.0	0.05	105.5	PASS
			1.385	TM3.1	0.05	105.5	PASS
			1.367	TM3.2	0.05	105.5	PASS
			2.597	TM3.3	0.05	105.5	PASS
		2	0.378	TM2.0	0.05	105.5	PASS
			0.050	TM3.1	0.05	105.5	PASS
			0.012	TM3.2	0.05	105.5	PASS
			0.358	TM3.3	0.05	105.5	PASS
-20		1	1.240	TM2.0	0.05	105.5	PASS
			2.721	TM3.1	0.05	105.5	PASS
			2.279	TM3.2	0.05	105.5	PASS
			0.591	TM3.3	0.05	105.5	PASS
		2	1.276	TM2.0	0.05	105.5	PASS
			1.325	TM3.1	0.05	105.5	PASS
			0.067	TM3.2	0.05	105.5	PASS
			0.321	TM3.3	0.05	105.5	PASS
-10		1	1.178	TM2.0	0.05	105.5	PASS
			1.532	TM3.1	0.05	105.5	PASS
			0.670	TM3.2	0.05	105.5	PASS
			0.746	TM3.3	0.05	105.5	PASS
		2	1.270	TM2.0	0.05	105.5	PASS
			0.323	TM3.1	0.05	105.5	PASS
			0.374	TM3.2	0.05	105.5	PASS
			1.407	TM3.3	0.05	105.5	PASS
0		1	0.075	TM2.0	0.05	105.5	PASS
			3.055	TM3.1	0.05	105.5	PASS
			0.276	TM3.2	0.05	105.5	PASS
			1.187	TM3.3	0.05	105.5	PASS

		2	0.534	TM2.0	0.05	105.5	PASS
			1.186	TM3.1	0.05	105.5	PASS
			3.520	TM3.2	0.05	105.5	PASS
			1.260	TM3.3	0.05	105.5	PASS
10		1	2.010	TM2.0	0.05	105.5	PASS
			0.330	TM3.1	0.05	105.5	PASS
			0.105	TM3.2	0.05	105.5	PASS
			0.151	TM3.3	0.05	105.5	PASS
		2	1.090	TM2.0	0.05	105.5	PASS
			2.223	TM3.1	0.05	105.5	PASS
			1.518	TM3.2	0.05	105.5	PASS
			0.398	TM3.3	0.05	105.5	PASS
20		1	0.350	TM2.0	0.05	105.5	PASS
			0.525	TM3.1	0.05	105.5	PASS
			0.341	TM3.2	0.05	105.5	PASS
			0.118	TM3.3	0.05	105.5	PASS
		2	1.809	TM2.0	0.05	105.5	PASS
			0.151	TM3.1	0.05	105.5	PASS
			0.589	TM3.2	0.05	105.5	PASS
			0.450	TM3.3	0.05	105.5	PASS
30		1	0.728	TM2.0	0.05	105.5	PASS
			0.038	TM3.1	0.05	105.5	PASS
			1.289	TM3.2	0.05	105.5	PASS
			0.351	TM3.3	0.05	105.5	PASS
		2	0.168	TM2.0	0.05	105.5	PASS
			2.185	TM3.1	0.05	105.5	PASS
			0.408	TM3.2	0.05	105.5	PASS
			3.58	TM3.3	0.05	105.5	PASS
40		1	2.176	TM2.0	0.05	105.5	PASS
			3.002	TM3.1	0.05	105.5	PASS
			2.540	TM3.2	0.05	105.5	PASS
			0.017	TM3.3	0.05	105.5	PASS
		2	3.045	TM2.0	0.05	105.5	PASS
			1.125	TM3.1	0.05	105.5	PASS
			0.432	TM3.2	0.05	105.5	PASS
			0.981	TM3.3	0.05	105.5	PASS
50		1	0.524	TM2.0	0.05	105.5	PASS
			1.326	TM3.1	0.05	105.5	PASS

			0.265	TM3.2	0.05	105.5	PASS
			3.810	TM3.3	0.05	105.5	PASS
		2	0.021	TM2.0	0.05	105.5	PASS
			1.205	TM3.1	0.05	105.5	PASS
			0.715	TM3.2	0.05	105.5	PASS
			1.659	TM3.3	0.05	105.5	PASS
55		1	0.128	TM2.0	0.05	105.5	PASS
			1.361	TM3.1	0.05	105.5	PASS
			1.425	TM3.2	0.05	105.5	PASS
			0.664	TM3.3	0.05	105.5	PASS
		2	0.185	TM2.0	0.05	105.5	PASS
			2.151	TM3.1	0.05	105.5	PASS
			1.165	TM3.2	0.05	105.5	PASS
			0.345	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:10M Frequency :2115MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	1.232	TM2.0	0.05	105.5	PASS
			3.001	TM3.1	0.05	105.5	PASS
			0.890	TM3.2	0.05	105.5	PASS
			0.528	TM3.3	0.05	105.5	PASS
		2	0.413	TM2.0	0.05	105.5	PASS
			2.322	TM3.1	0.05	105.5	PASS
			1.038	TM3.2	0.05	105.5	PASS
			1.034	TM3.3	0.05	105.5	PASS
-30		1	0.907	TM2.0	0.05	105.5	PASS
			0.485	TM3.1	0.05	105.5	PASS
			0.351	TM3.2	0.05	105.5	PASS
			2.567	TM3.3	0.05	105.5	PASS
		2	1.352	TM2.0	0.05	105.5	PASS
			2.036	TM3.1	0.05	105.5	PASS
			0.322	TM3.2	0.05	105.5	PASS
			0.854	TM3.3	0.05	105.5	PASS
20		1	1.172	TM2.0	0.05	105.5	PASS
			0.021	TM3.1	0.05	105.5	PASS
			0.539	TM3.2	0.05	105.5	PASS

			0.050	TM3.3	0.05	105.5	PASS
		2	4.904	TM2.0	0.05	105.5	PASS
			0.050	TM3.1	0.05	105.5	PASS
			3.254	TM3.2	0.05	105.5	PASS
			0.087	TM3.3	0.05	105.5	PASS
50		1	0.524	TM2.0	0.05	105.5	PASS
			2.322	TM3.1	0.05	105.5	PASS
			1.260	TM3.2	0.05	105.5	PASS
			2.470	TM3.3	0.05	105.5	PASS
		2	1.521	TM2.0	0.05	105.5	PASS
			1.325	TM3.1	0.05	105.5	PASS
			0.715	TM3.2	0.05	105.5	PASS
			0.658	TM3.3	0.05	105.5	PASS
55		1	2.100	TM2.0	0.05	105.5	PASS
			3.068	TM3.1	0.05	105.5	PASS
			0.480	TM3.2	0.05	105.5	PASS
			0.790	TM3.3	0.05	105.5	PASS
		2	2.350	TM2.0	0.05	105.5	PASS
			0.350	TM3.1	0.05	105.5	PASS
			2.371	TM3.2	0.05	105.5	PASS
			1.210	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:10M　Frequency :2132.5MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	0.050	TM2.0	0.05	105.5	PASS
			1.025	TM3.1	0.05	105.5	PASS
			3.217	TM3.2	0.05	105.5	PASS
			0.541	TM3.3	0.05	105.5	PASS
		2	3.756	TM2.0	0.05	105.5	PASS
			1.457	TM3.1	0.05	105.5	PASS
			0.951	TM3.2	0.05	105.5	PASS
			0.035	TM3.3	0.05	105.5	PASS
-30		1	1.925	TM2.0	0.05	105.5	PASS
			1.432	TM3.1	0.05	105.5	PASS
			0.355	TM3.2	0.05	105.5	PASS
			0.287	TM3.3	0.05	105.5	PASS

		2	0.426	TM2.0	0.05	105.5	PASS
			0.078	TM3.1	0.05	105.5	PASS
			0.020	TM3.2	0.05	105.5	PASS
			0.867	TM3.3	0.05	105.5	PASS
20		1	0.150	TM2.0	0.05	105.5	PASS
			0.700	TM3.1	0.05	105.5	PASS
			0.537	TM3.2	0.05	105.5	PASS
			2.158	TM3.3	0.05	105.5	PASS
		2	0.564	TM2.0	0.05	105.5	PASS
			0.951	TM3.1	0.05	105.5	PASS
			0.381	TM3.2	0.05	105.5	PASS
			1.080	TM3.3	0.05	105.5	PASS
50		1	0.681	TM2.0	0.05	105.5	PASS
			0.547	TM3.1	0.05	105.5	PASS
			0.367	TM3.2	0.05	105.5	PASS
			0.167	TM3.3	0.05	105.5	PASS
		2	1.374	TM2.0	0.05	105.5	PASS
			1.375	TM3.1	0.05	105.5	PASS
			0.867	TM3.2	0.05	105.5	PASS
			0.186	TM3.3	0.05	105.5	PASS
55		1	0.805	TM2.0	0.05	105.5	PASS
			0.568	TM3.1	0.05	105.5	PASS
			1.437	TM3.2	0.05	105.5	PASS
			1.758	TM3.3	0.05	105.5	PASS
		2	0.450	TM2.0	0.05	105.5	PASS
			1.358	TM3.1	0.05	105.5	PASS
			0.387	TM3.2	0.05	105.5	PASS
			0.234	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:10M　Frequency :2150MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	3.357	TM2.0	0.05	105.5	PASS
			0.127	TM3.1	0.05	105.5	PASS
			0.041	TM3.2	0.05	105.5	PASS
			0.542	TM3.3	0.05	105.5	PASS
		2	2.374	TM2.0	0.05	105.5	PASS

			0.436	TM3.1	0.05	105.5	PASS
			1.922	TM3.2	0.05	105.5	PASS
			1.744	TM3.3	0.05	105.5	PASS
-30		1	0.523	TM2.0	0.05	105.5	PASS
			0.397	TM3.1	0.05	105.5	PASS
			1.951	TM3.2	0.05	105.5	PASS
			0.233	TM3.3	0.05	105.5	PASS
		2	1.485	TM2.0	0.05	105.5	PASS
			2.558	TM3.1	0.05	105.5	PASS
			3.021	TM3.2	0.05	105.5	PASS
			1.588	TM3.3	0.05	105.5	PASS
20		1	1.105	TM2.0	0.05	105.5	PASS
			1.705	TM3.1	0.05	105.5	PASS
			3.557	TM3.2	0.05	105.5	PASS
			1.158	TM3.3	0.05	105.5	PASS
		2	1.563	TM2.0	0.05	105.5	PASS
			0.254	TM3.1	0.05	105.5	PASS
			0.394	TM3.2	0.05	105.5	PASS
			0.224	TM3.3	0.05	105.5	PASS
50		1	4.591	TM2.0	0.05	105.5	PASS
			3.378	TM3.1	0.05	105.5	PASS
			0.397	TM3.2	0.05	105.5	PASS
			0.678	TM3.3	0.05	105.5	PASS
		2	0.558	TM2.0	0.05	105.5	PASS
			1.375	TM3.1	0.05	105.5	PASS
			0.867	TM3.2	0.05	105.5	PASS
			3.126	TM3.3	0.05	105.5	PASS
55		1	2.825	TM2.0	0.05	105.5	PASS
			1.564	TM3.1	0.05	105.5	PASS
			0.374	TM3.2	0.05	105.5	PASS
			0.757	TM3.3	0.05	105.5	PASS
		2	2.437	TM2.0	0.05	105.5	PASS
			0.375	TM3.1	0.05	105.5	PASS
			1.387	TM3.2	0.05	105.5	PASS
			1.237	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:5M Frequency :2112.5MHz）

Temperature (℃)	Power Supplied (V_{DC})	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	105.5	Result
-40	-48	1	1.637	TM2.0	0.05	105.5	PASS
			2.537	TM3.1	0.05	105.5	PASS
			1.037	TM3.2	0.05	105.5	PASS
			0.583	TM3.3	0.05	105.5	PASS
		2	1.267	TM2.0	0.05	105.5	PASS
			0.286	TM3.1	0.05	105.5	PASS
			0.394	TM3.2	0.05	105.5	PASS
			0.481	TM3.3	0.05	105.5	PASS
-30		1	0.538	TM2.0	0.05	105.5	PASS
			1.347	TM3.1	0.05	105.5	PASS
			0.927	TM3.2	0.05	105.5	PASS
			1.127	TM3.3	0.05	105.5	PASS
		2	0.285	TM2.0	0.05	105.5	PASS
			0.300	TM3.1	0.05	105.5	PASS
			0.027	TM3.2	0.05	105.5	PASS
			0.387	TM3.3	0.05	105.5	PASS
20		1	0.575	TM2.0	0.05	105.5	PASS
			0.785	TM3.1	0.05	105.5	PASS
			0.577	TM3.2	0.05	105.5	PASS
			0.154	TM3.3	0.05	105.5	PASS
		2	0.483	TM2.0	0.05	105.5	PASS
			0.964	TM3.1	0.05	105.5	PASS
			2.384	TM3.2	0.05	105.5	PASS
			4.394	TM3.3	0.05	105.5	PASS
50		1	3.471	TM2.0	0.05	105.5	PASS
			0.768	TM3.1	0.05	105.5	PASS
			1.307	TM3.2	0.05	105.5	PASS
			2.600	TM3.3	0.05	105.5	PASS
		2	4.518	TM2.0	0.05	105.5	PASS
			1.315	TM3.1	0.05	105.5	PASS
			0.810	TM3.2	0.05	105.5	PASS
			0.124	TM3.3	0.05	105.5	PASS
55		1	0.855	TM2.0	0.05	105.5	PASS
			2.504	TM3.1	0.05	105.5	PASS
			1.301	TM3.2	0.05	105.5	PASS
			0.728	TM3.3	0.05	105.5	PASS

		2	0.537	TM2.0	0.05	105.5	PASS
			0.895	TM3.1	0.05	105.5	PASS
			0.571	TM3.2	0.05	105.5	PASS
			0.95	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:5M Frequency :2132.5MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	0.167	TM2.0	0.05	105.5	PASS
			0.752	TM3.1	0.05	105.5	PASS
			0.030	TM3.2	0.05	105.5	PASS
			0.378	TM3.3	0.05	105.5	PASS
		2	1.287	TM2.0	0.05	105.5	PASS
			4.886	TM3.1	0.05	105.5	PASS
			0.014	TM3.2	0.05	105.5	PASS
			0.408	TM3.3	0.05	105.5	PASS
-30		1	2.546	TM2.0	0.05	105.5	PASS
			0.327	TM3.1	0.05	105.5	PASS
			1.027	TM3.2	0.05	105.5	PASS
			2.107	TM3.3	0.05	105.5	PASS
		2	3.217	TM2.0	0.05	105.5	PASS
			2.328	TM3.1	0.05	105.5	PASS
			2.037	TM3.2	0.05	105.5	PASS
			0.387	TM3.3	0.05	105.5	PASS
20		1	0.173	TM2.0	0.05	105.5	PASS
			1.701	TM3.1	0.05	105.5	PASS
			2.812	TM3.2	0.05	105.5	PASS
			0.104	TM3.3	0.05	105.5	PASS
		2	0.403	TM2.0	0.05	105.5	PASS
			1.764	TM3.1	0.05	105.5	PASS
			2.384	TM3.2	0.05	105.5	PASS
			0.374	TM3.3	0.05	105.5	PASS
50		1	0.141	TM2.0	0.05	105.5	PASS
			4.768	TM3.1	0.05	105.5	PASS
			0.317	TM3.2	0.05	105.5	PASS
			1.807	TM3.3	0.05	105.5	PASS
		2	0.272	TM2.0	0.05	105.5	PASS

			2.335	TM3.1	0.05	105.5	PASS
			1.420	TM3.2	0.05	105.5	PASS
			0.137	TM3.3	0.05	105.5	PASS
55		1	3.855	TM2.0	0.05	105.5	PASS
			1.507	TM3.1	0.05	105.5	PASS
			2.300	TM3.2	0.05	105.5	PASS
			0.728	TM3.3	0.05	105.5	PASS
		2	2.504	TM2.0	0.05	105.5	PASS
			3.872	TM3.1	0.05	105.5	PASS
			2.501	TM3.2	0.05	105.5	PASS
			0.980	TM3.3	0.05	105.5	PASS

Frequency Stability vs Temperature（Channel Bandwidth:5M Frequency :2152.5MHz）							
Temperature (℃)	**Power Supplied (V_{DC})**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
-40	-48	1	0.261	TM2.0	0.05	105.5	PASS
			1.317	TM3.1	0.05	105.5	PASS
			0.038	TM3.2	0.05	105.5	PASS
			2.398	TM3.3	0.05	105.5	PASS
		2	0.277	TM2.0	0.05	105.5	PASS
			0.817	TM3.1	0.05	105.5	PASS
			1.011	TM3.2	0.05	105.5	PASS
			0.008	TM3.3	0.05	105.5	PASS
-30		1	0.501	TM2.0	0.05	105.5	PASS
			1.226	TM3.1	0.05	105.5	PASS
			0.038	TM3.2	0.05	105.5	PASS
			1.197	TM3.3	0.05	105.5	PASS
		2	0.247	TM2.0	0.05	105.5	PASS
			0.388	TM3.1	0.05	105.5	PASS
			1.537	TM3.2	0.05	105.5	PASS
			3.385	TM3.3	0.05	105.5	PASS
20		1	2.177	TM2.0	0.05	105.5	PASS
			0.734	TM3.1	0.05	105.5	PASS
			0.712	TM3.2	0.05	105.5	PASS
			0.185	TM3.3	0.05	105.5	PASS
		2	4.409	TM2.0	0.05	105.5	PASS
			0.304	TM3.1	0.05	105.5	PASS

			0.391	TM3.2	0.05	105.5	PASS
			0.704	TM3.3	0.05	105.5	PASS
50		1	0.121	TM2.0	0.05	105.5	PASS
			0.728	TM3.1	0.05	105.5	PASS
			1.308	TM3.2	0.05	105.5	PASS
			0.107	TM3.3	0.05	105.5	PASS
		2	4.272	TM2.0	0.05	105.5	PASS
			2.385	TM3.1	0.05	105.5	PASS
			0.437	TM3.2	0.05	105.5	PASS
			0.857	TM3.3	0.05	105.5	PASS
55		1	0.855	TM2.0	0.05	105.5	PASS
			0.108	TM3.1	0.05	105.5	PASS
			2.301	TM3.2	0.05	105.5	PASS
			0.728	TM3.3	0.05	105.5	PASS
		2	2.784	TM2.0	0.05	105.5	PASS
			0.372	TM3.1	0.05	105.5	PASS
			0.921	TM3.2	0.05	105.5	PASS
			0.946	TM3.3	0.05	105.5	PASS

Frequency Stability versus Voltage

Frequency Stability vs Voltage（Channel Bandwidth:20M Frequency :2120MHz）							
Voltage：Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	0.201	TM2.0	0.05	105.5	PASS
			1.311	TM3.1	0.05	105.5	PASS
			1.024	TM3.2	0.05	105.5	PASS
			1.127	TM3.3	0.05	105.5	PASS
		2	0.532	TM2.0	0.05	105.5	PASS
			0.434	TM3.1	0.05	105.5	PASS
			0.507	TM3.2	0.05	105.5	PASS
			1.448	TM3.3	0.05	105.5	PASS
115%		1	0.575	TM2.0	0.05	105.5	PASS
			0.223	TM3.1	0.05	105.5	PASS
			0.785	TM3.2	0.05	105.5	PASS
			0.289	TM3.3	0.05	105.5	PASS

		2	0.437	TM2.0	0.05	105.5	PASS
			1.057	TM3.1	0.05	105.5	PASS
			0.652	TM3.2	0.05	105.5	PASS
			0.741	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:20M Frequency :2132.5MHz）							
Voltage: Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	0.114	TM2.0	0.05	105.5	PASS
			1.732	TM3.1	0.05	105.5	PASS
			0.145	TM3.2	0.05	105.5	PASS
			1.154	TM3.3	0.05	105.5	PASS
		2	1.578	TM2.0	0.05	105.5	PASS
			0. 827	TM3.1	0.05	105.5	PASS
			0.575	TM3.2	0.05	105.5	PASS
			0.856	TM3.3	0.05	105.5	PASS
115%		1	0.523	TM2.0	0.05	105.5	PASS
			0.225	TM3.1	0.05	105.5	PASS
			0.707	TM3.2	0.05	105.5	PASS
			1.301	TM3.3	0.05	105.5	PASS
		2	0.521	TM2.0	0.05	105.5	PASS
			2.875	TM3.1	0.05	105.5	PASS
			3.072	TM3.2	0.05	105.5	PASS
			0.054	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:20M Frequency :2145MHz）							
Voltage: Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	1.070	TM2.0	0.05	105.5	PASS
			1.323	TM3.1	0.05	105.5	PASS
			0.547	TM3.2	0.05	105.5	PASS
			0.523	TM3.3	0.05	105.5	PASS
		2	0.554	TM2.0	0.05	105.5	PASS
			1. 207	TM3.1	0.05	105.5	PASS
			1.337	TM3.2	0.05	105.5	PASS
			0.853	TM3.3	0.05	105.5	PASS

115%		1	1.147	TM2.0	0.05	105.5	PASS
			0.561	TM3.1	0.05	105.5	PASS
			1.737	TM3.2	0.05	105.5	PASS
			0.345	TM3.3	0.05	105.5	PASS
		2	0.574	TM2.0	0.05	105.5	PASS
			1.827	TM3.1	0.05	105.5	PASS
			0.080	TM3.2	0.05	105.5	PASS
			1.047	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:15M Frequency :2117.5MHz）							
Voltage: Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	1.503	TM2.0	0.05	105.5	PASS
			0.821	TM3.1	0.05	105.5	PASS
			0.080	TM3.2	0.05	105.5	PASS
			0.107	TM3.3	0.05	105.5	PASS
		2	1.548	TM2.0	0.05	105.5	PASS
			1.417	TM3.1	0.05	105.5	PASS
			0.537	TM3.2	0.05	105.5	PASS
			0.407	TM3.3	0.05	105.5	PASS
115%		1	0.573	TM2.0	0.05	105.5	PASS
			0.275	TM3.1	0.05	105.5	PASS
			0.715	TM3.2	0.05	105.5	PASS
			0.231	TM3.3	0.05	105.5	PASS
		2	0.523	TM2.0	0.05	105.5	PASS
			1.257	TM3.1	0.05	105.5	PASS
			0.474	TM3.2	0.05	105.5	PASS
			0.706	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:15M Frequency :2132.5MHz）							
Voltage: Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	2.513	TM2.0	0.05	105.5	PASS
			1.838	TM3.1	0.05	105.5	PASS
			1.109	TM3.2	0.05	105.5	PASS

			0.108	TM3.3	0.05	105.5	PASS
		2	0.530	TM2.0	0.05	105.5	PASS
			0. 017	TM3.1	0.05	105.5	PASS
			0.536	TM3.2	0.05	105.5	PASS
			0.387	TM3.3	0.05	105.5	PASS
115%		1	1.503	TM2.0	0.05	105.5	PASS
			1.205	TM3.1	0.05	105.5	PASS
			1.705	TM3.2	0.05	105.5	PASS
			1.301	TM3.3	0.05	105.5	PASS
		2	4.501	TM2.0	0.05	105.5	PASS
			3.890	TM3.1	0.05	105.5	PASS
			4.060	TM3.2	0.05	105.5	PASS
			0.041	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:15M　Frequency :2147.5MHz）

Voltage: Ref=-48V（%）	Temperature (℃)	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
85%	20	1	0.070	TM2.0	0.05	105.5	PASS
			0.357	TM3.1	0.05	105.5	PASS
			0.957	TM3.2	0.05	105.5	PASS
			0.803	TM3.3	0.05	105.5	PASS
		2	0.527	TM2.0	0.05	105.5	PASS
			0. 218	TM3.1	0.05	105.5	PASS
			0.337	TM3.2	0.05	105.5	PASS
			0.317	TM3.3	0.05	105.5	PASS
115%		1	1.503	TM2.0	0.05	105.5	PASS
			0.205	TM3.1	0.05	105.5	PASS
			3.705	TM3.2	0.05	105.5	PASS
			1.303	TM3.3	0.05	105.5	PASS
		2	0.521	TM2.0	0.05	105.5	PASS
			1.810	TM3.1	0.05	105.5	PASS
			0.080	TM3.2	0.05	105.5	PASS
			1.041	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:10M　Frequency :2115MHz）

Voltage：Ref=-48V（%）	Temperature (℃)	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
85%	20	1	1.173	TM2.0	0.05	105.5	PASS
			2.006	TM3.1	0.05	105.5	PASS
			0.912	TM3.2	0.05	105.5	PASS
			0.782	TM3.3	0.05	105.5	PASS
		2	0.534	TM2.0	0.05	105.5	PASS
			1. 207	TM3.1	0.05	105.5	PASS
			0.383	TM3.2	0.05	105.5	PASS
			0.157	TM3.3	0.05	105.5	PASS
115%		1	1.003	TM2.0	0.05	105.5	PASS
			0.005	TM3.1	0.05	105.5	PASS
			4.601	TM3.2	0.05	105.5	PASS
			0.317	TM3.3	0.05	105.5	PASS
		2	0.384	TM2.0	0.05	105.5	PASS
			0.820	TM3.1	0.05	105.5	PASS
			0.180	TM3.2	0.05	105.5	PASS
			0.007	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:10M Frequency :2132.5MHz）

Voltage：Ref=-48V（%）	Temperature (℃)	Port	Frequency Measure Error (Hz)	E-TM	Limit (ppm)	Limit (Hz)	Result
85%	20	1	0.181	TM2.0	0.05	105.5	PASS
			0.127	TM3.1	0.05	105.5	PASS
			0.395	TM3.2	0.05	105.5	PASS
			0.054	TM3.3	0.05	105.5	PASS
		2	1.381	TM2.0	0.05	105.5	PASS
			1. 807	TM3.1	0.05	105.5	PASS
			0.307	TM3.2	0.05	105.5	PASS
			1.107	TM3.3	0.05	105.5	PASS
115%		1	3.201	TM2.0	0.05	105.5	PASS
			2.216	TM3.1	0.05	105.5	PASS
			0.803	TM3.2	0.05	105.5	PASS
			0.746	TM3.3	0.05	105.5	PASS
		2	1.207	TM2.0	0.05	105.5	PASS
			1.631	TM3.1	0.05	105.5	PASS
			1.752	TM3.2	0.05	105.5	PASS

			1.107	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:10M Frequency :2150MHz）							
Voltage：Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	1.954	TM2.0	0.05	105.5	PASS
			1.167	TM3.1	0.05	105.5	PASS
			1.752	TM3.2	0.05	105.5	PASS
			1.001	TM3.3	0.05	105.5	PASS
		2	0.367	TM2.0	0.05	105.5	PASS
			1. 827	TM3.1	0.05	105.5	PASS
			0.337	TM3.2	0.05	105.5	PASS
			0.197	TM3.3	0.05	105.5	PASS
115%		1	2.157	TM2.0	0.05	105.5	PASS
			2.364	TM3.1	0.05	105.5	PASS
			1.637	TM3.2	0.05	105.5	PASS
			0.394	TM3.3	0.05	105.5	PASS
		2	0.752	TM2.0	0.05	105.5	PASS
			0.657	TM3.1	0.05	105.5	PASS
			0.972	TM3.2	0.05	105.5	PASS
			0.023	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:5M Frequency :2112.5MHz）							
Voltage：Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	1.958	TM2.0	0.05	105.5	PASS
			0.254	TM3.1	0.05	105.5	PASS
			0.381	TM3.2	0.05	105.5	PASS
			1.008	TM3.3	0.05	105.5	PASS
		2	2.537	TM2.0	0.05	105.5	PASS
			1. 672	TM3.1	0.05	105.5	PASS
			1.308	TM3.2	0.05	105.5	PASS
			0.837	TM3.3	0.05	105.5	PASS
115%		1	0.206	TM2.0	0.05	105.5	PASS
			4.237	TM3.1	0.05	105.5	PASS
			0.801	TM3.2	0.05	105.5	PASS

			2.765	TM3.3	0.05	105.5	PASS
		2	1.073	TM2.0	0.05	105.5	PASS
			2.908	TM3.1	0.05	105.5	PASS
			0.672	TM3.2	0.05	105.5	PASS
			0.102	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:5M Frequency :2132.5MHz）							
Voltage: Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	1.901	TM2.0	0.05	105.5	PASS
			2.208	TM3.1	0.05	105.5	PASS
			2.654	TM3.2	0.05	105.5	PASS
			1.375	TM3.3	0.05	105.5	PASS
		2	0.730	TM2.0	0.05	105.5	PASS
			0 601	TM3.1	0.05	105.5	PASS
			1.378	TM3.2	0.05	105.5	PASS
			0.007	TM3.3	0.05	105.5	PASS
115%		1	1.765	TM2.0	0.05	105.5	PASS
			0.376	TM3.1	0.05	105.5	PASS
			0.215	TM3.2	0.05	105.5	PASS
			0.375	TM3.3	0.05	105.5	PASS
		2	0.054	TM2.0	0.05	105.5	PASS
			0.875	TM3.1	0.05	105.5	PASS
			0.937	TM3.2	0.05	105.5	PASS
			1.108	TM3.3	0.05	105.5	PASS

Frequency Stability vs Voltage（Channel Bandwidth:5M Frequency :2152.5MHz）							
Voltage: Ref=-48V（%）	**Temperature (℃)**	**Port**	**Frequency Measure Error (Hz)**	**E-TM**	**Limit (ppm)**	**Limit (Hz)**	**Result**
85%	20	1	0.023	TM2.0	0.05	37.175	PASS
			0.378	TM3.1	0.05	37.175	PASS
			0.197	TM3.2	0.05	37.175	PASS
			0.308	TM3.3	0.05	37.175	PASS
		2	2.085	TM2.0	0.05	37.175	PASS
			2 357	TM3.1	0.05	37.175	PASS

			3.057	TM3.2	0.05	37.175	PASS
			0.967	TM3.3	0.05	37.175	PASS
115%		1	0.875	TM2.0	0.05	37.175	PASS
			0.694	TM3.1	0.05	37.175	PASS
			1.753	TM3.2	0.05	37.175	PASS
			1.982	TM3.3	0.05	37.175	PASS
		2	1.385	TM2.0	0.05	37.175	PASS
			0.056	TM3.1	0.05	37.175	PASS
			2.350	TM3.2	0.05	37.175	PASS
			0.008	TM3.3	0.05	37.175	PASS

8 TRANSMITTER OUTPUT POWER

Applicable Standard: RSS139 § 6.4 ;srsp513 § 5.1.1

The equivalent isotropic ally radiated power (e.i.r.p.) of the base and fixed stations3 (with the exception of fixed subscriber stations) operating in the band 2110-2155 MHz maximum e.i.r.p. is limited to 3280 watts/MHz e.i.r.p. (i.e., no more than 3280 watts e.i.r.p. in any 1 MHz band segment) with an antenna height above average terrain (HAAT) up to 300 metres. Fixed or base stations operating in urban areas are limited to a maximum allowable e.i.r.p. of 1640 watts/MHz e.i.r.p.; The peak-to-average power ratio (PAPR) of these transmissions shall comply with the limits specified in RSS-139.

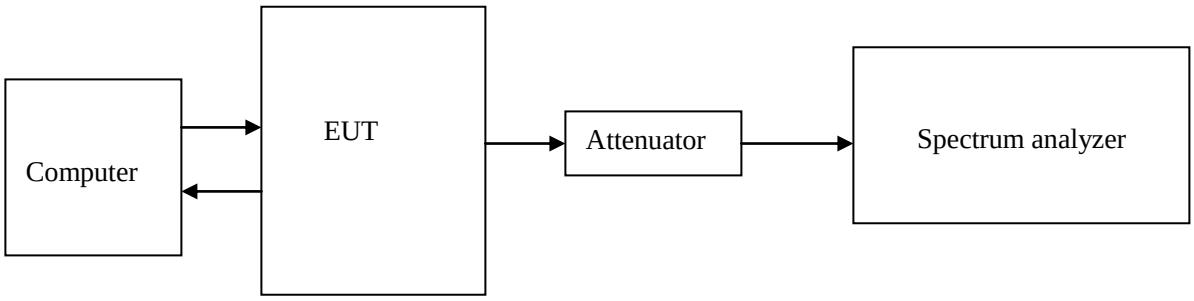
The PAPR of the transmitter output power of base and fixed station equipment shall not exceed 13 dB for more than 0.1% of the time, using a signal that corresponds to the highest PAPR during periods of continuous transmission.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	PXA Series Spectrum Analyzer	N9030A	MY49431143	2014.09.16	2015.09.16
DTS	DTS 40dB Attenuator	DTS100-40-3-1	201312160104	2014.09.16	2015.09.16

***statement of traceability:** The Reliability Testing Center attests that all calibration has been performed per the NVLAP requirements, traceable to NIST.

Test Procedure



When conducted power test, The RF output of the R8882 S1700 was connected to the input of the spectrum analyzer through sufficient external attenuation. External attenuation Loss is 42.6dB.R8882 S1700 has two antennas, test the power one antenna by another, and add the two antennas power together as last conducted power.

The EIRP design formulas as follows:
EIRP (dBm) = Conducted power (dBm) + Antenna gain (dBi) – Signal attenuation in the connecting cable between the transmitter and antenna (dB)
Antenna gain (dBi):15dBi
Signal attenuation in the connecting cable between the transmitter and antenna (dB):1.5dB

Environmental Conditions

Temperature:	20 °C
Relative Humidity:	53 %
ATM Pressure:	1009 mbar

Test Result: Pass

Test Mode: Transmitting LTE

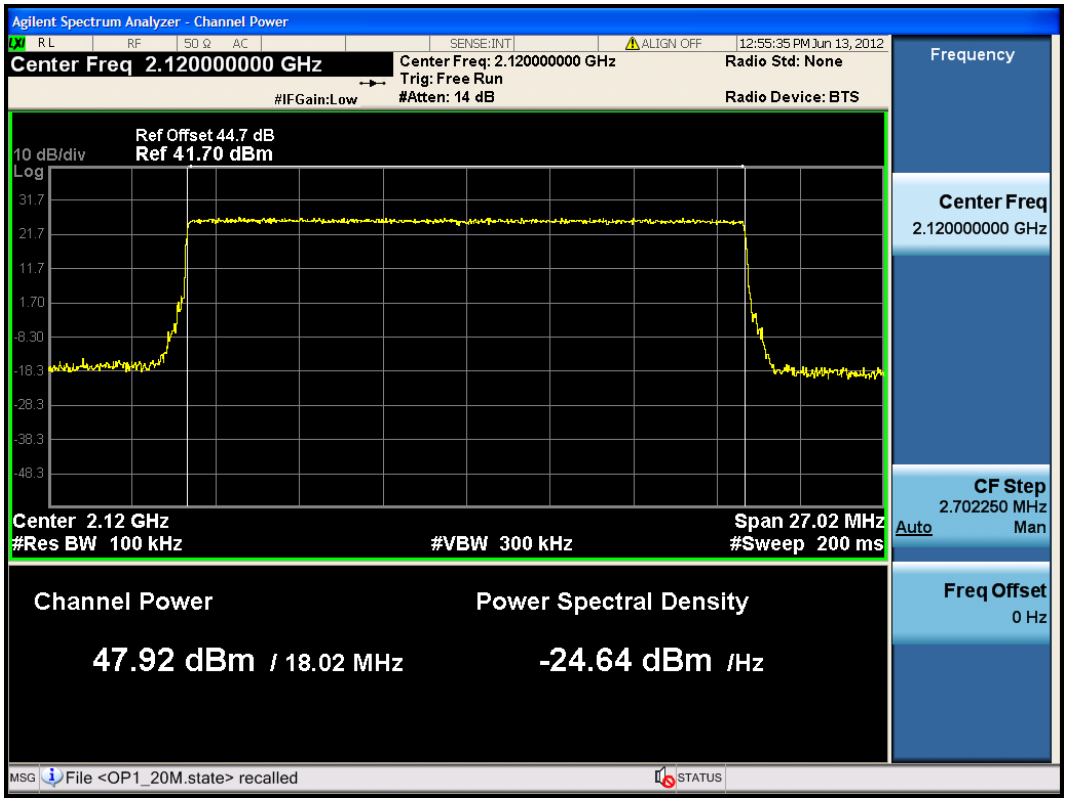
Test Data:

Channel Bandwidth :20M

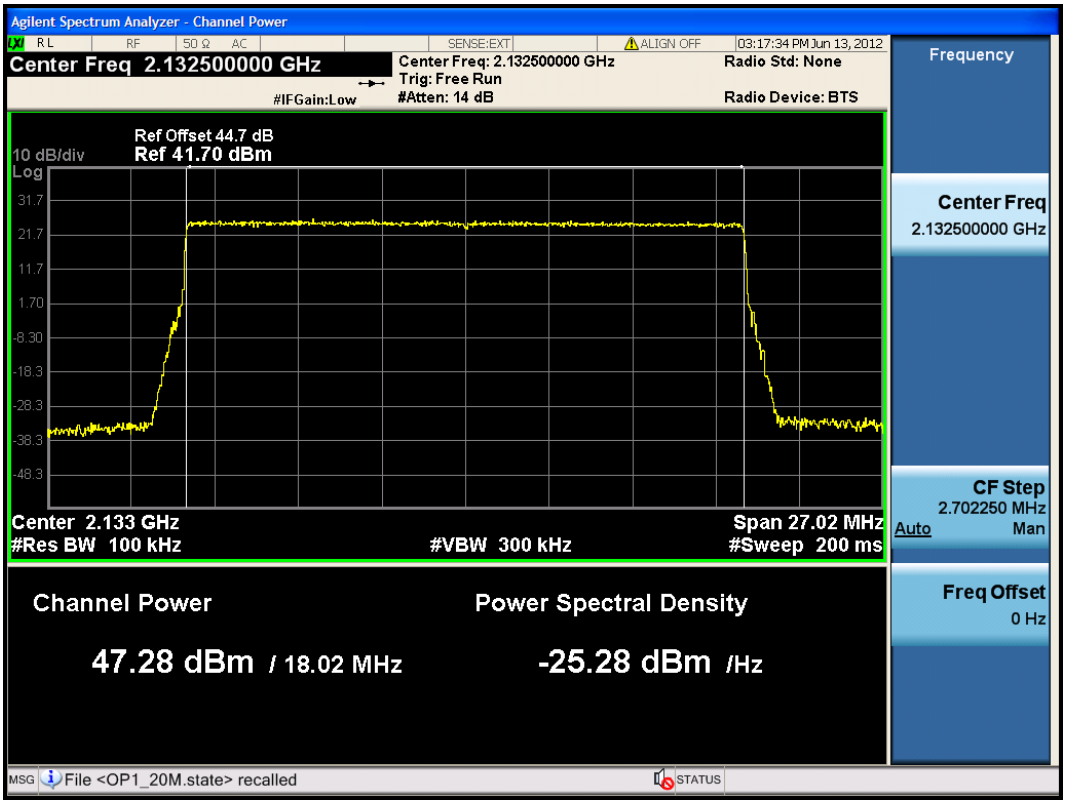
Port	Center Freq. (MHz)	Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Equivalent radiated power dBm Of single antenna	Total Power in W Of single antenna	Total Power in W Of Two antenna
1	2120	47.92	15	1.5	61.42	1386.75	2773.51

	2132.5	47.28	15	1.5	57.13	1196.74	2393.48
	2145	47.82	15	1.5	57.67	1355.18	2710.37
2	2120	47.83	15	1.5	57.68	1358.31	2716.62
	2132.5	47.43	15	1.5	57.28	1238.79	2477.59
	2145	47.84	15	1.5	57.69	1361.44	2722.88

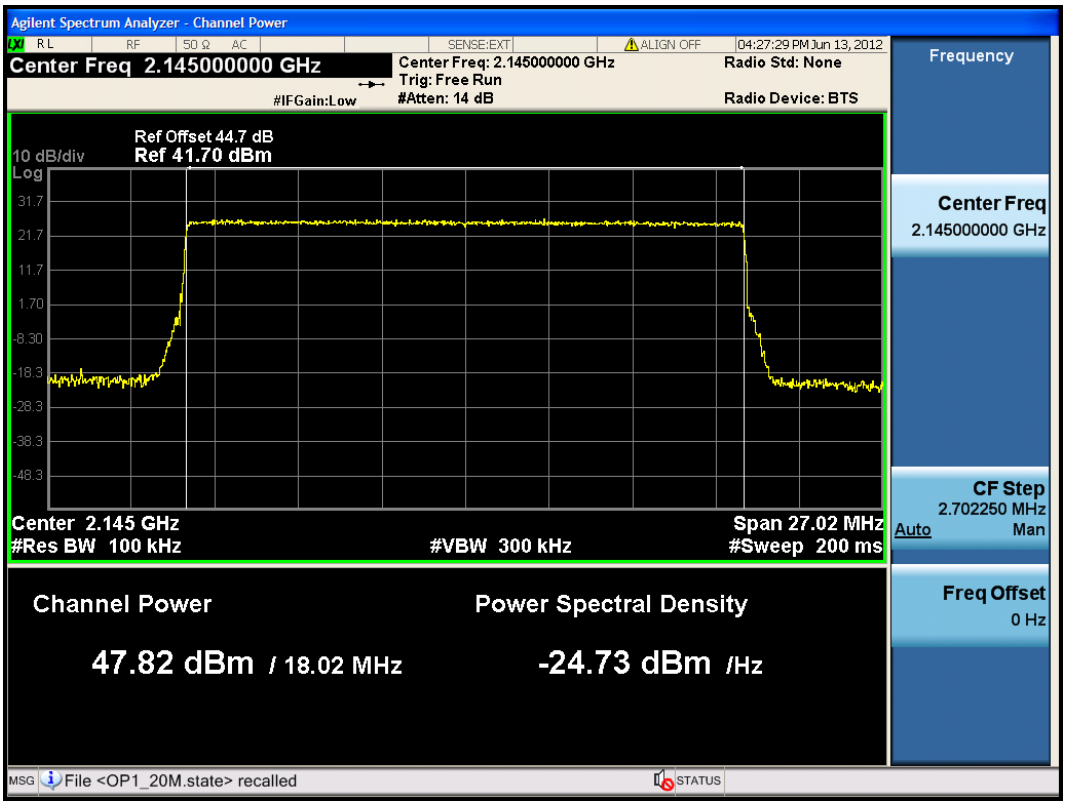
20M -Port 1 -2120MHz



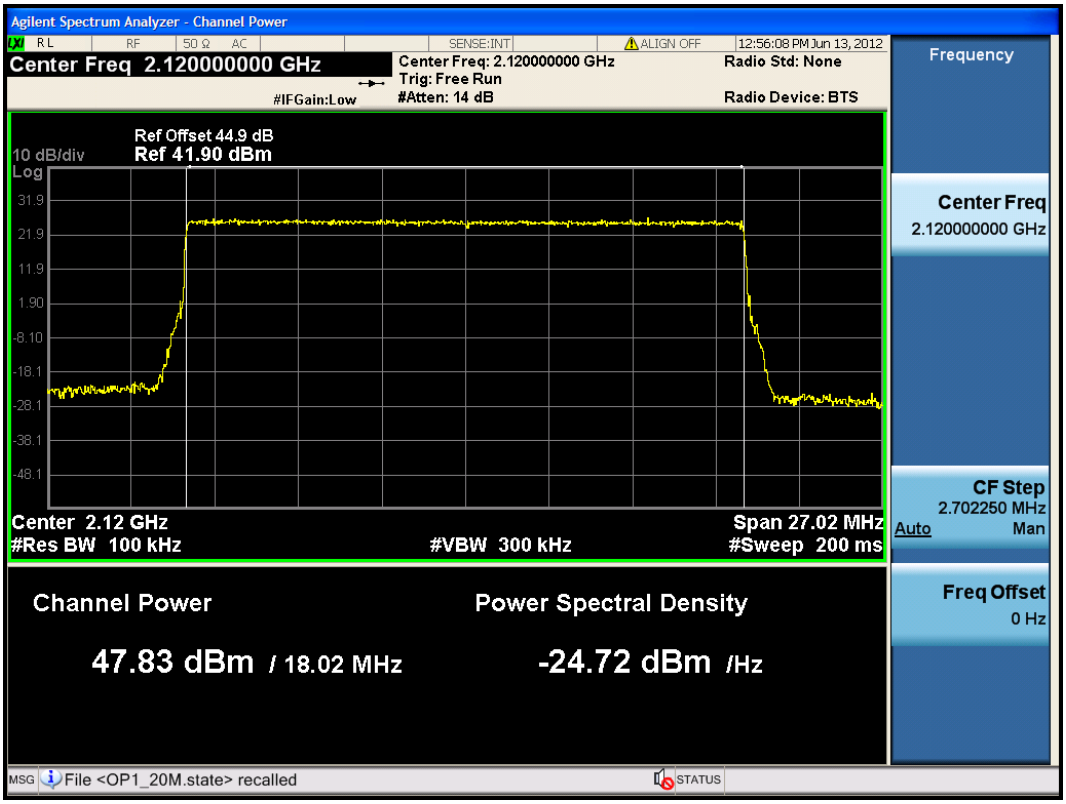
20M-Port 1 -2132.5MHz



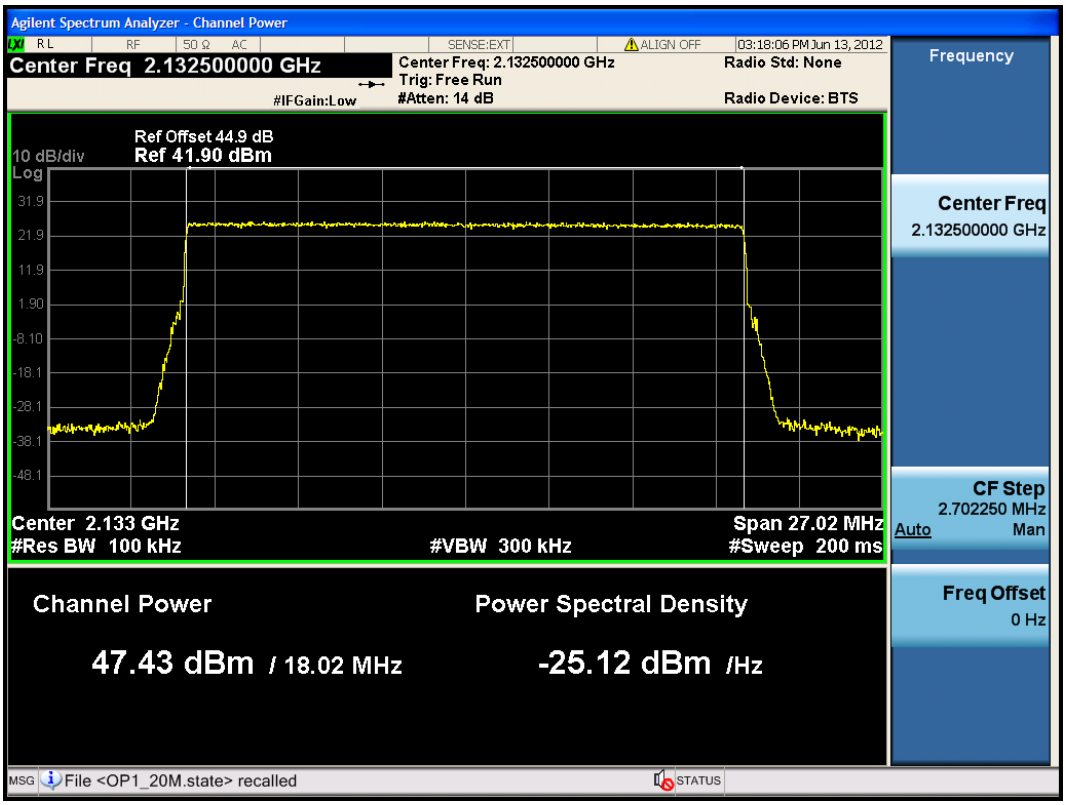
20M-Port 1 -2145MHz



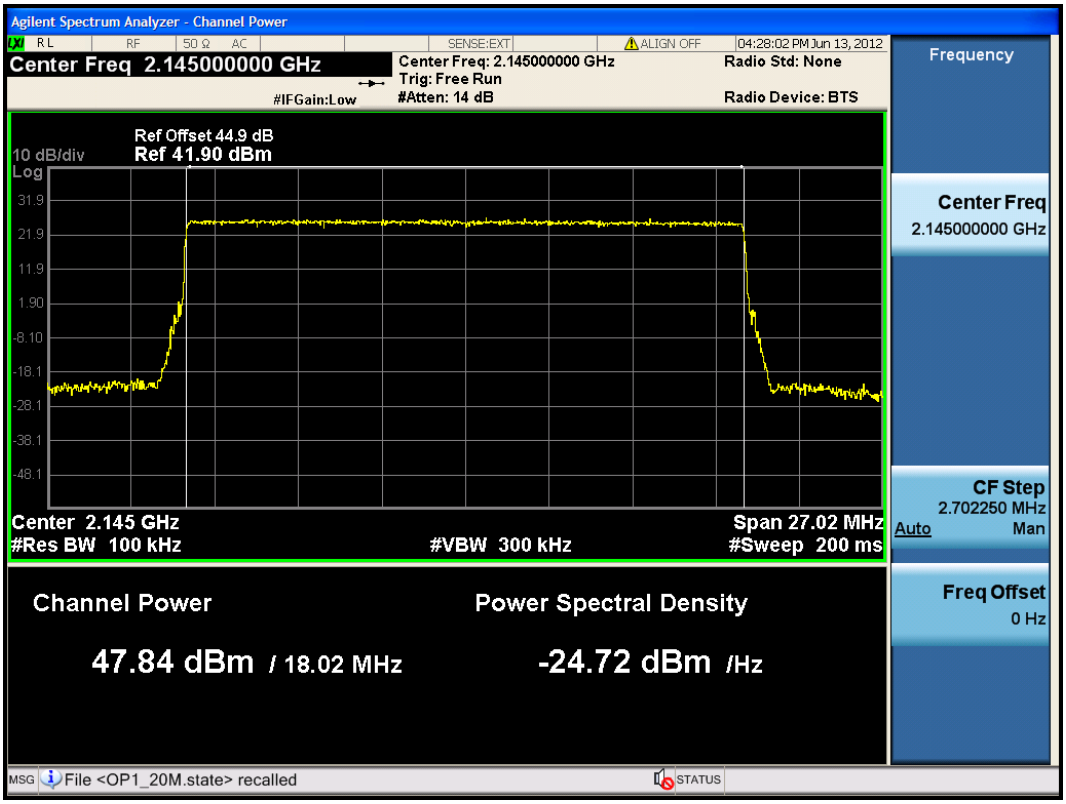
20M -Port 2 -2120MHz



20M-Port 2 -2132.5MHz



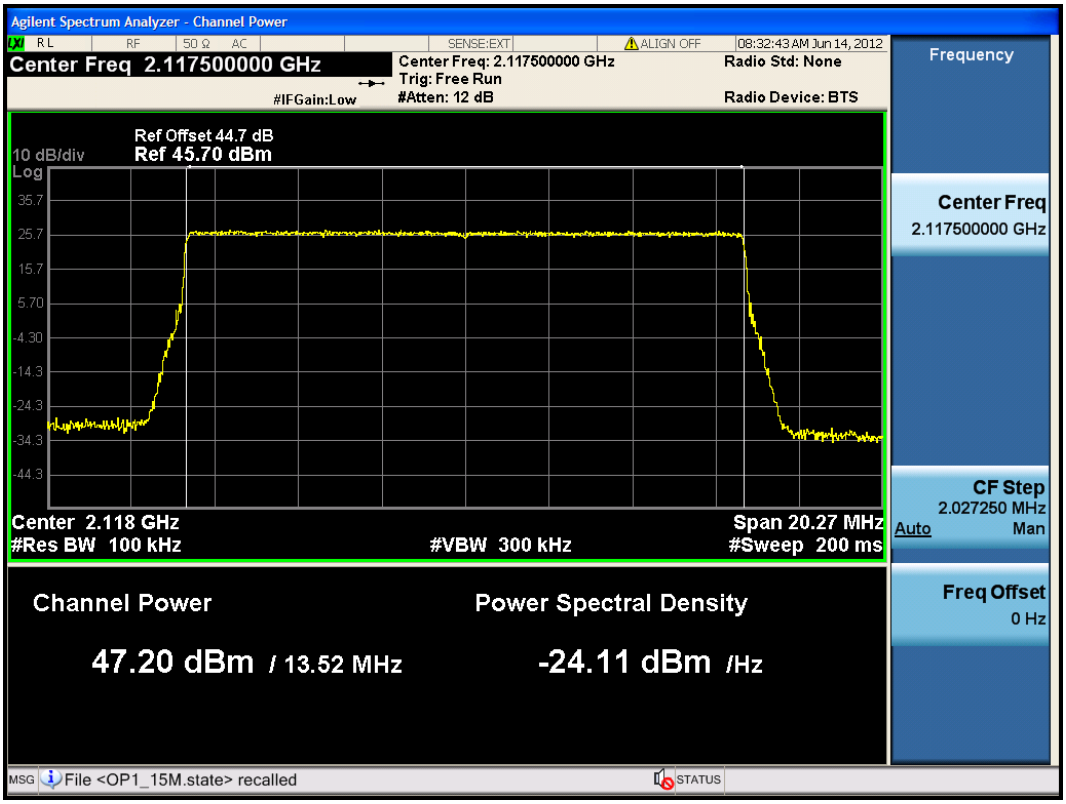
20M-Port 2 -2145MHz



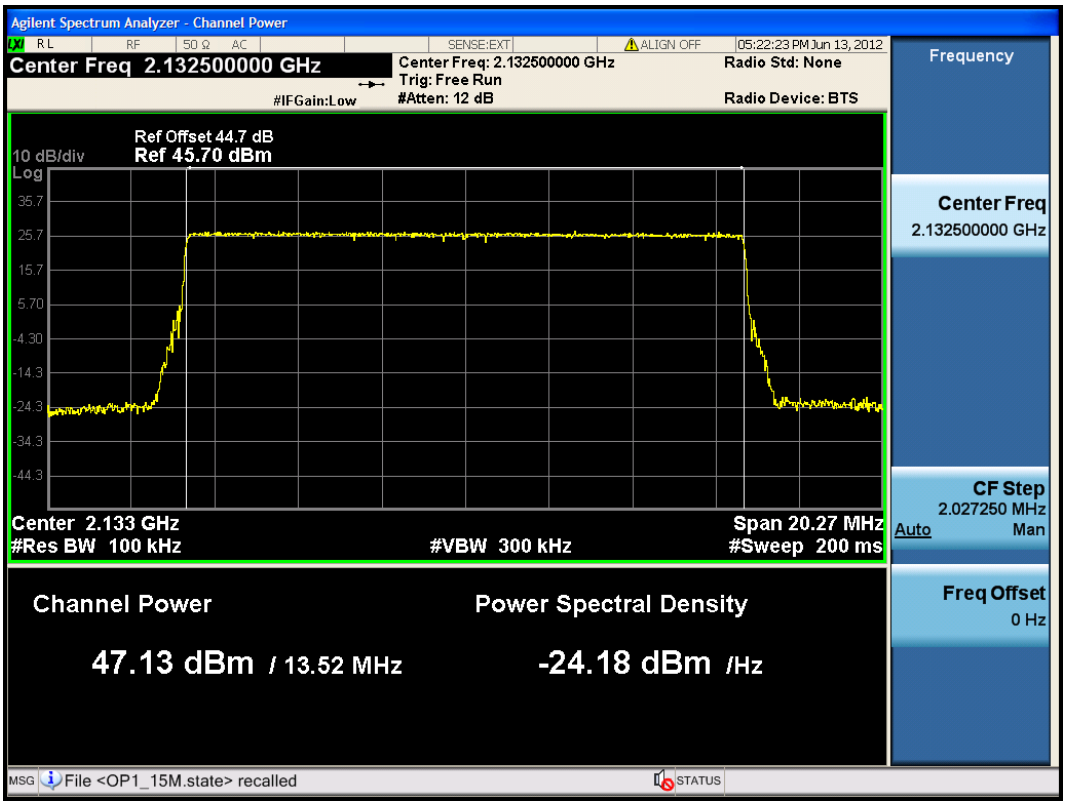
Channel Bandwidth :15M

Port	Center Freq. (MHz)	Max output Power in dBm	Antenna gain dBi	Cable Loss dB	Equivalent radiated power dBm Of single antenna	Total Power in W Of single antenna	Total Power in W Of Two antenna
1	2117.5	47.20	15	1.5	60.7	1174.89	2349.79
	2132.5	47.13	15	1.5	60.63	1156.11	2312.22
	2147.5	47.31	15	1.5	60.81	1205.03	2410.07
2	2117.5	47.37	15	1.5	60.87	1221.80	2443.59
	2132.5	47.46	15	1.5	60.96	1247.38	2494.76
	2147.5	47.55	15	1.5	61.05	1273.50	2547.00

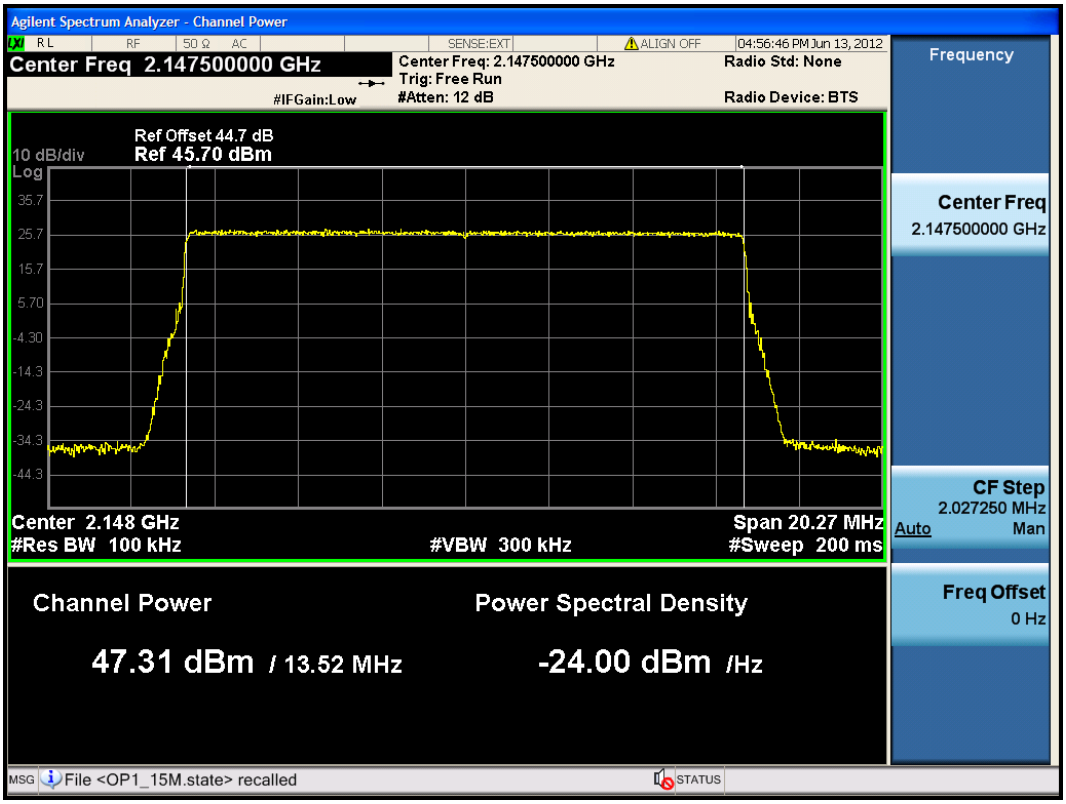
15M -Port 1 -2117.5MHz



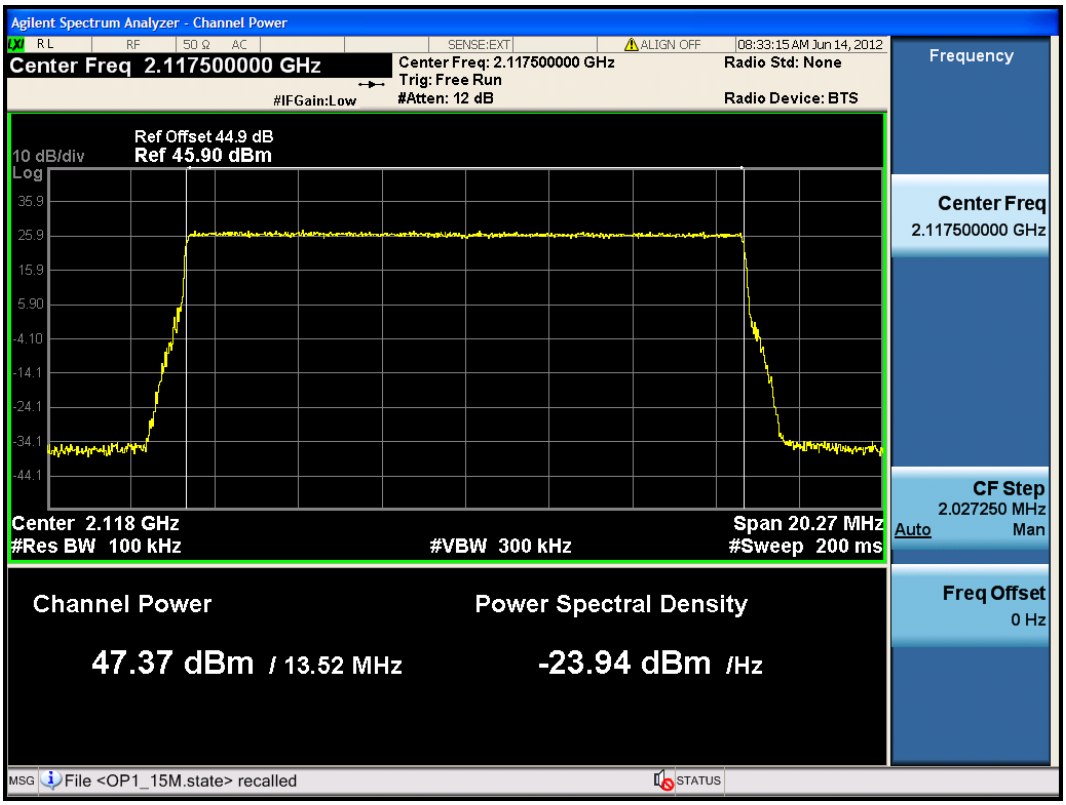
15M-Port 1 -2132.5MHz



15M-Port 1 -2147.5MHz



15M-Port 2-2117.5MHz



15M-Port 2 -2132.5MHz