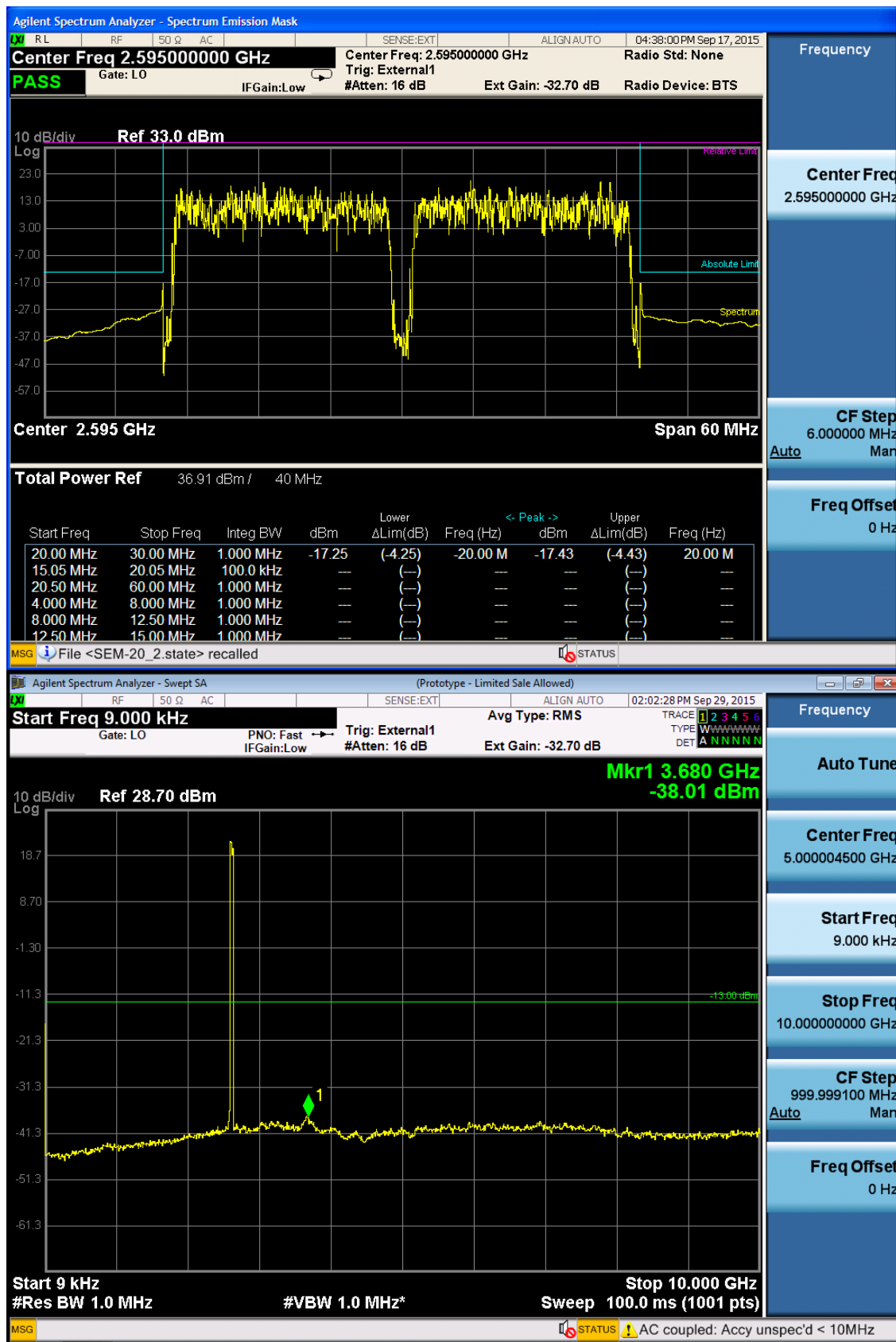
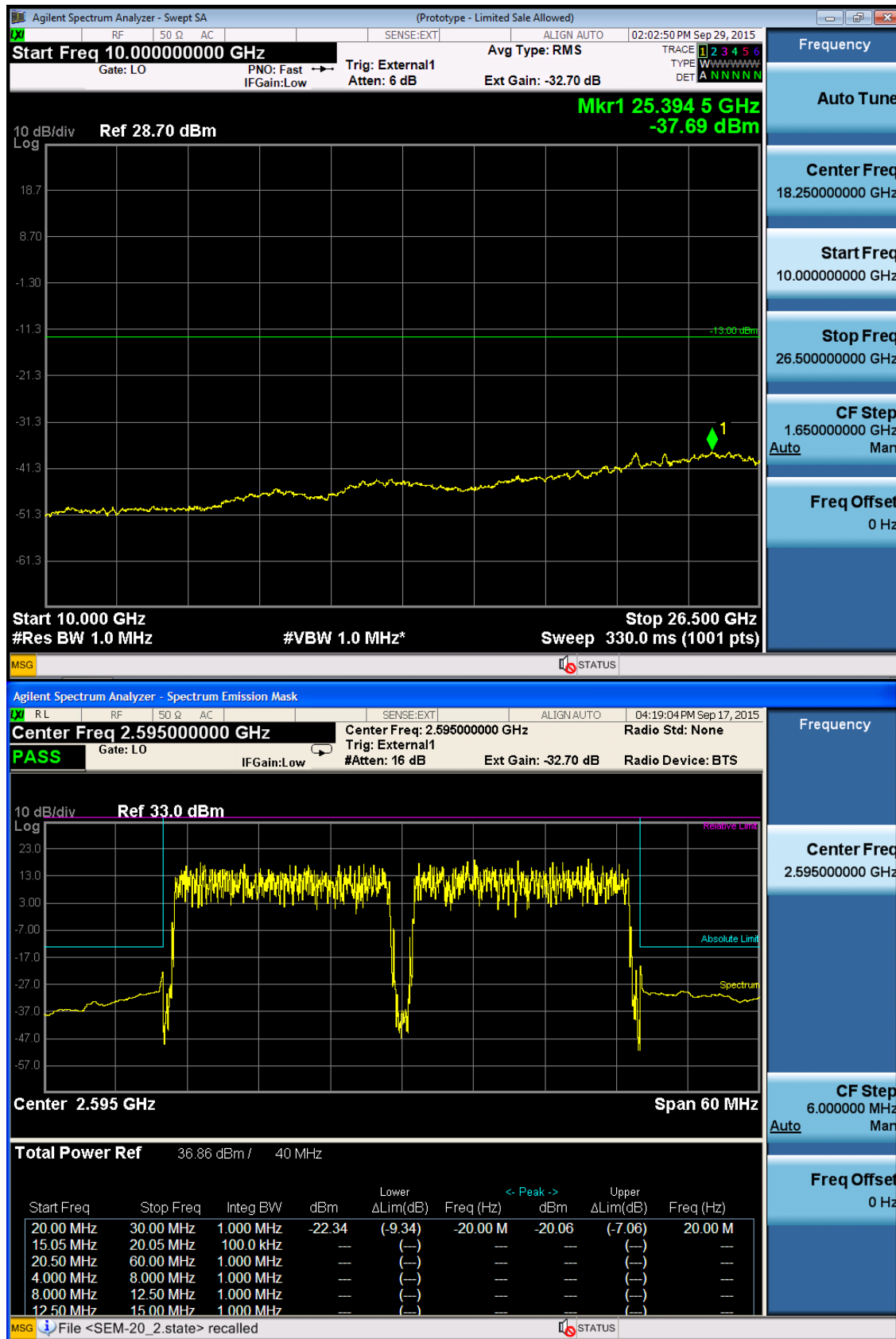
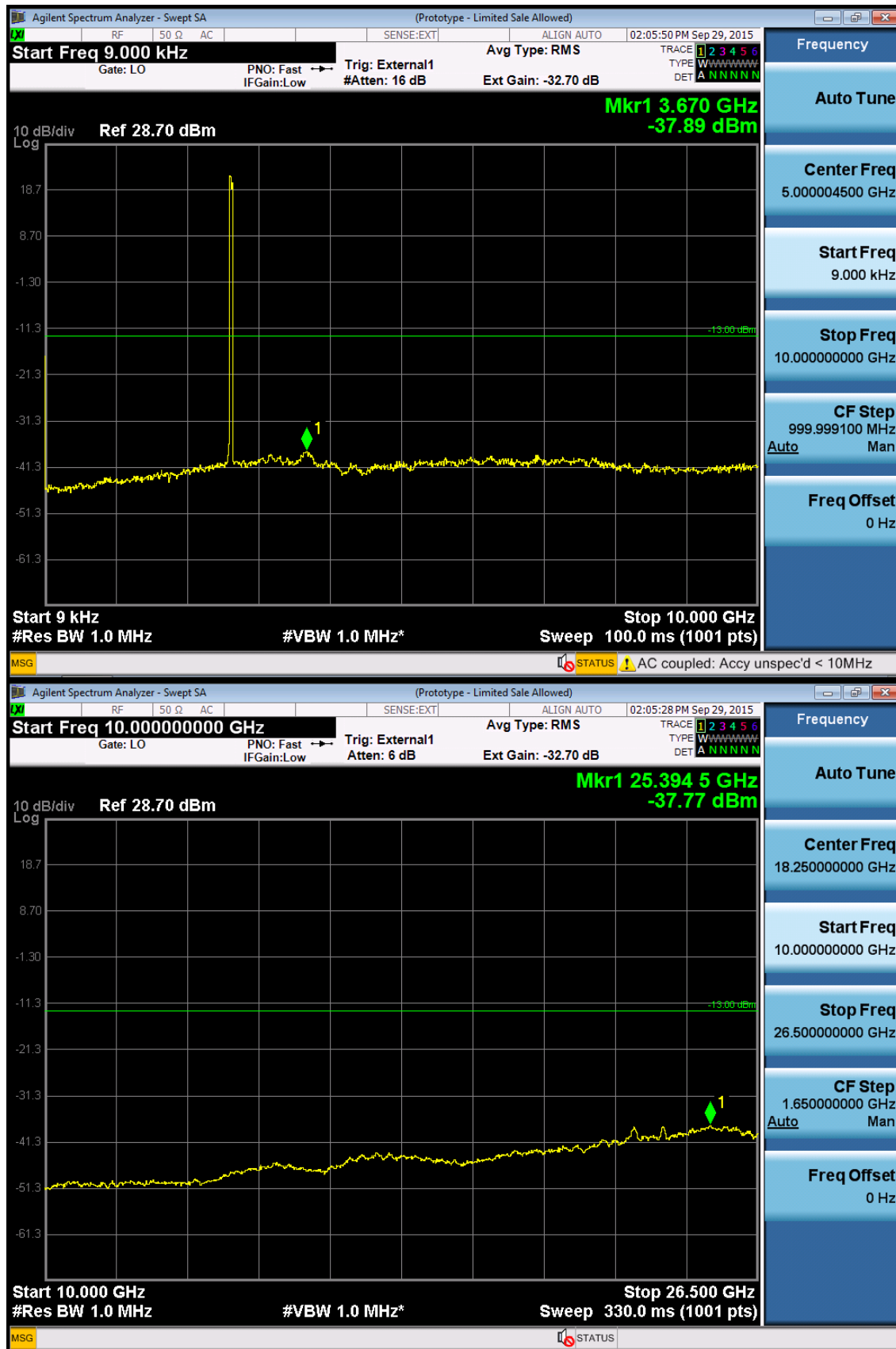
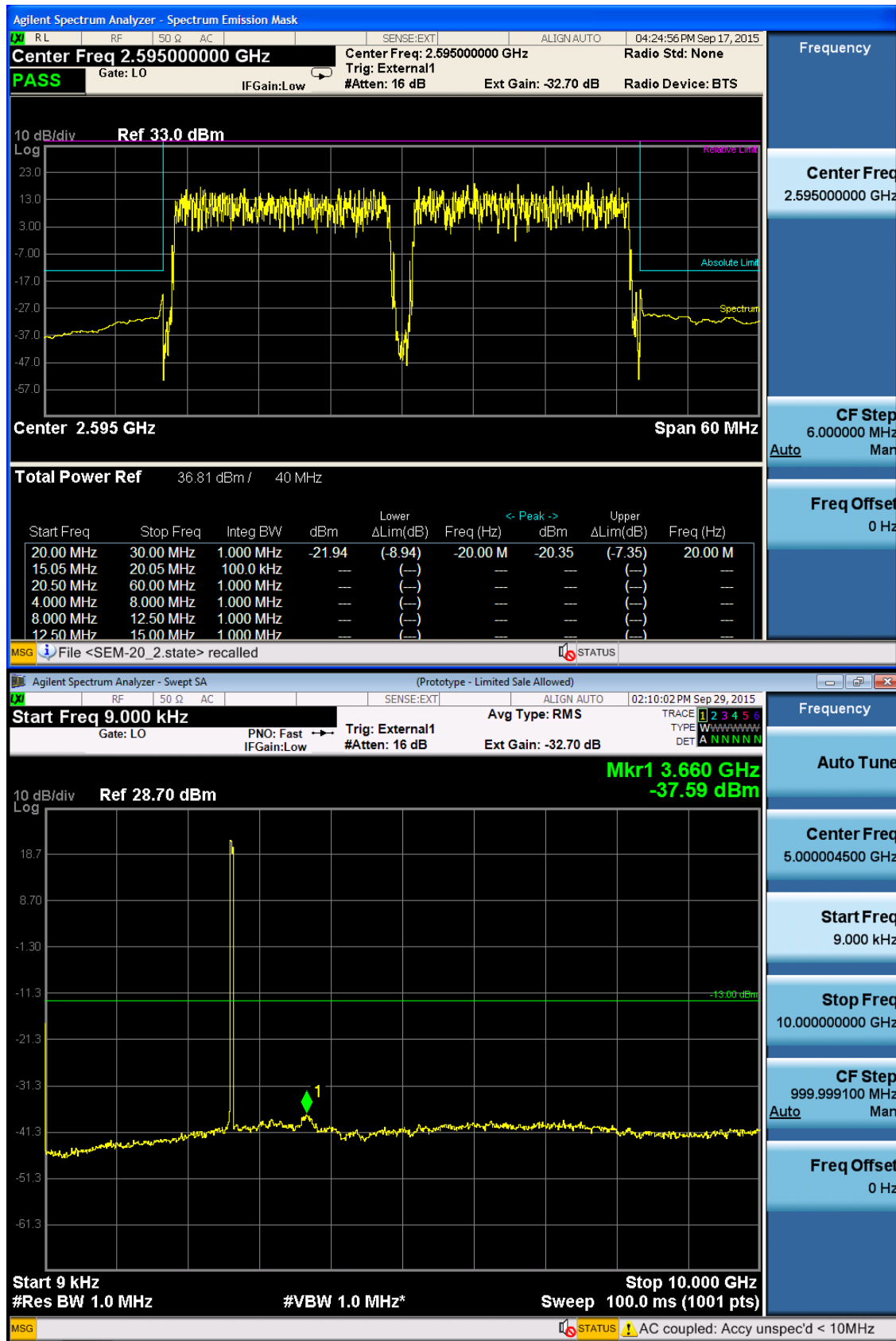
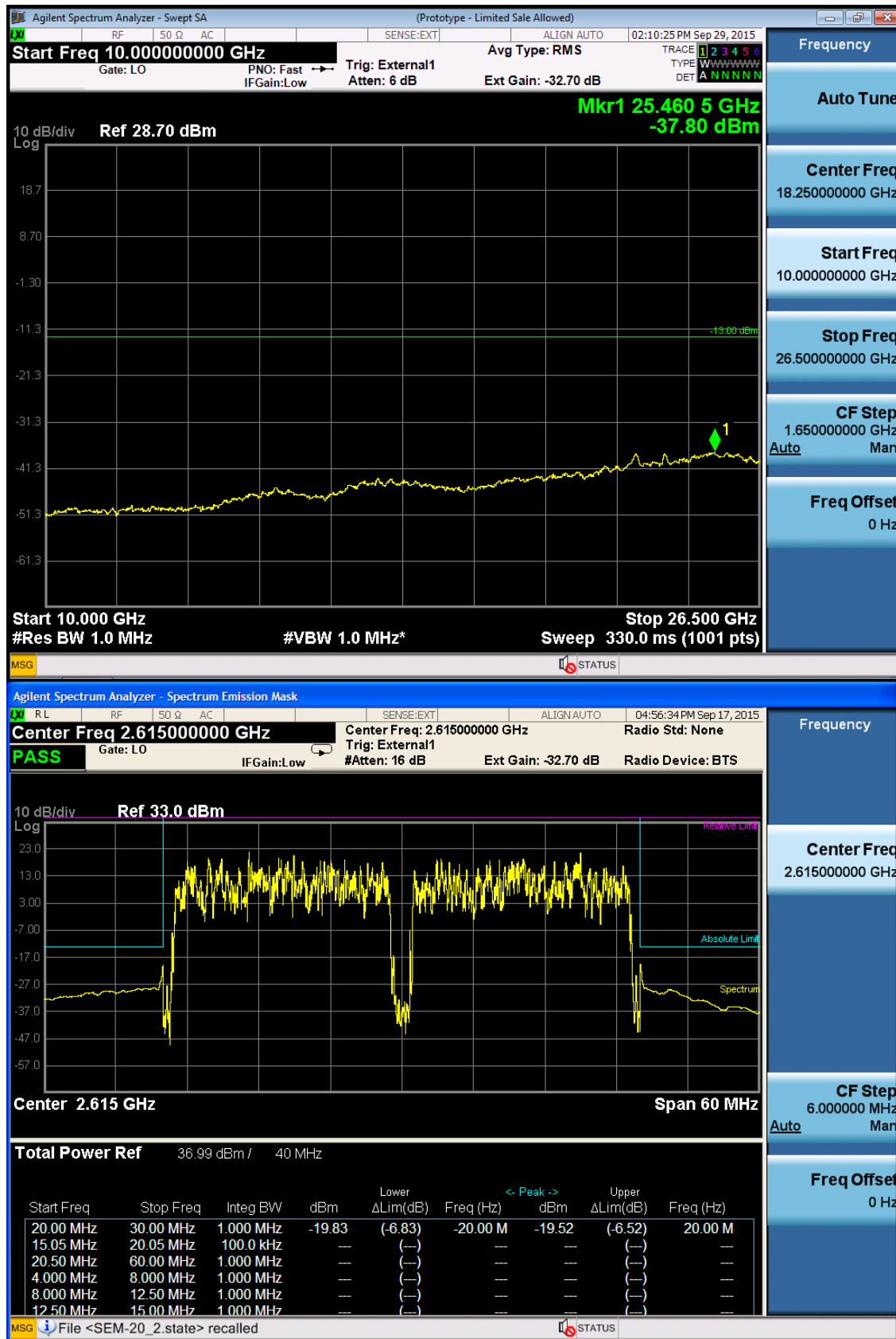


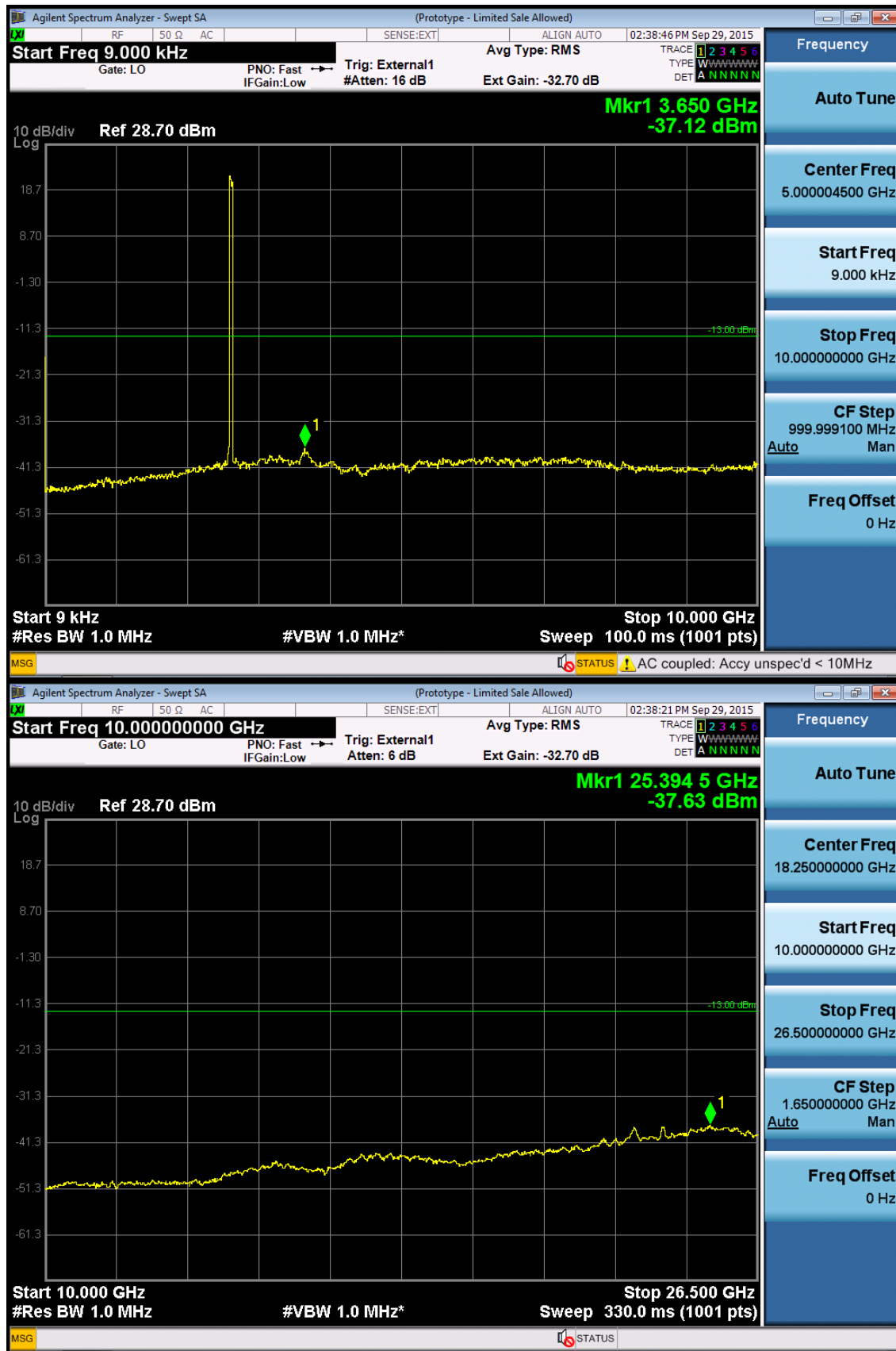


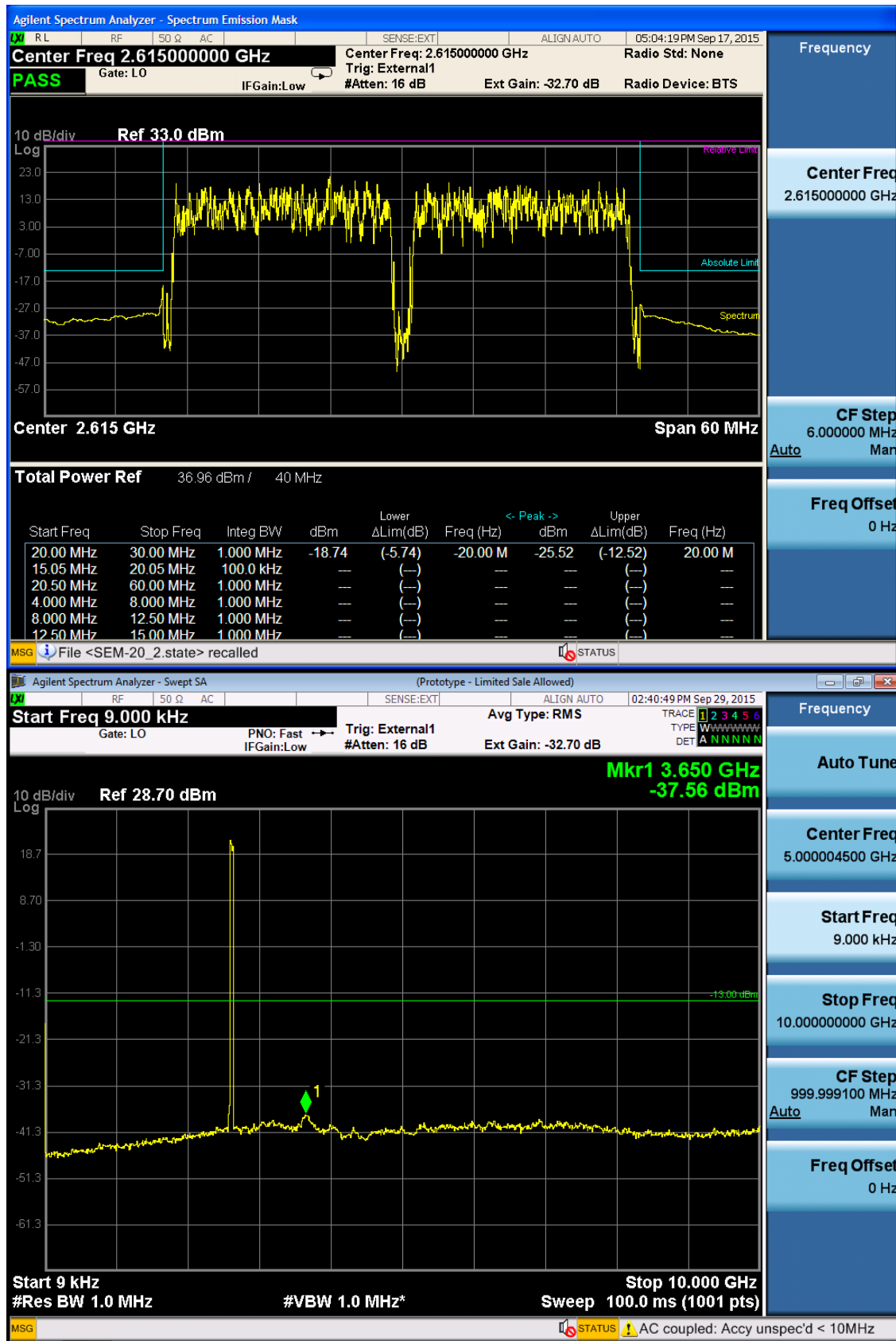


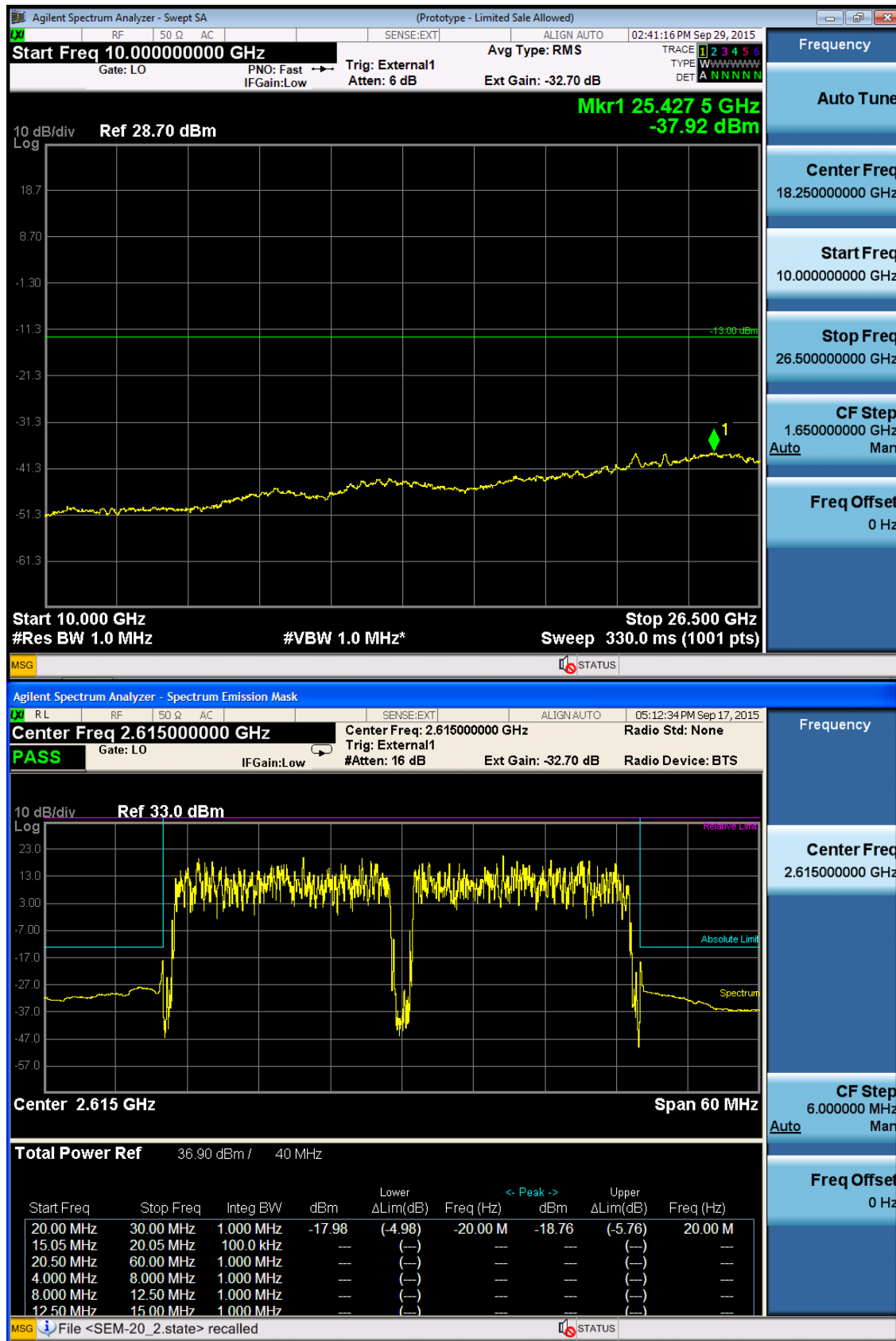


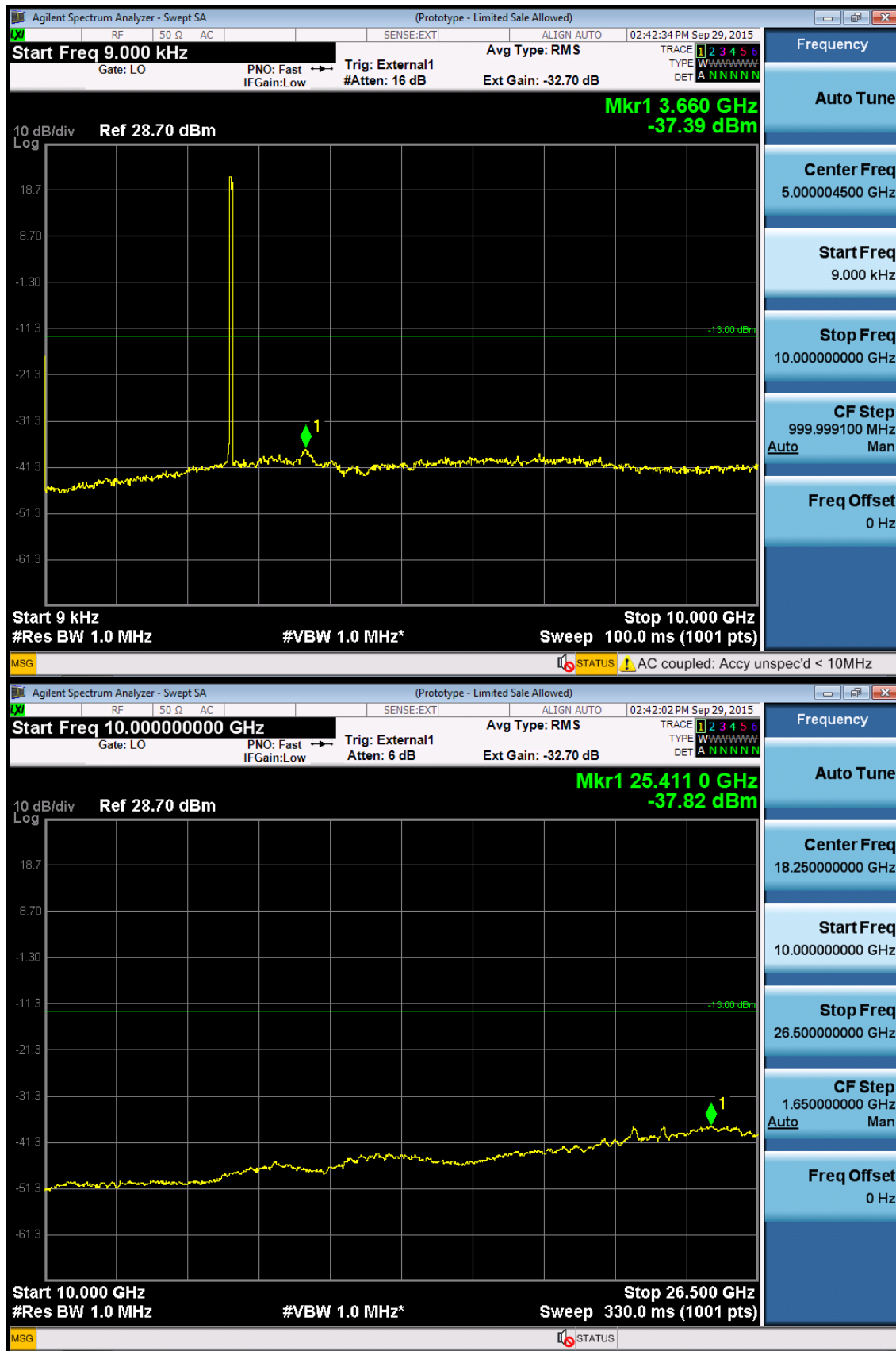


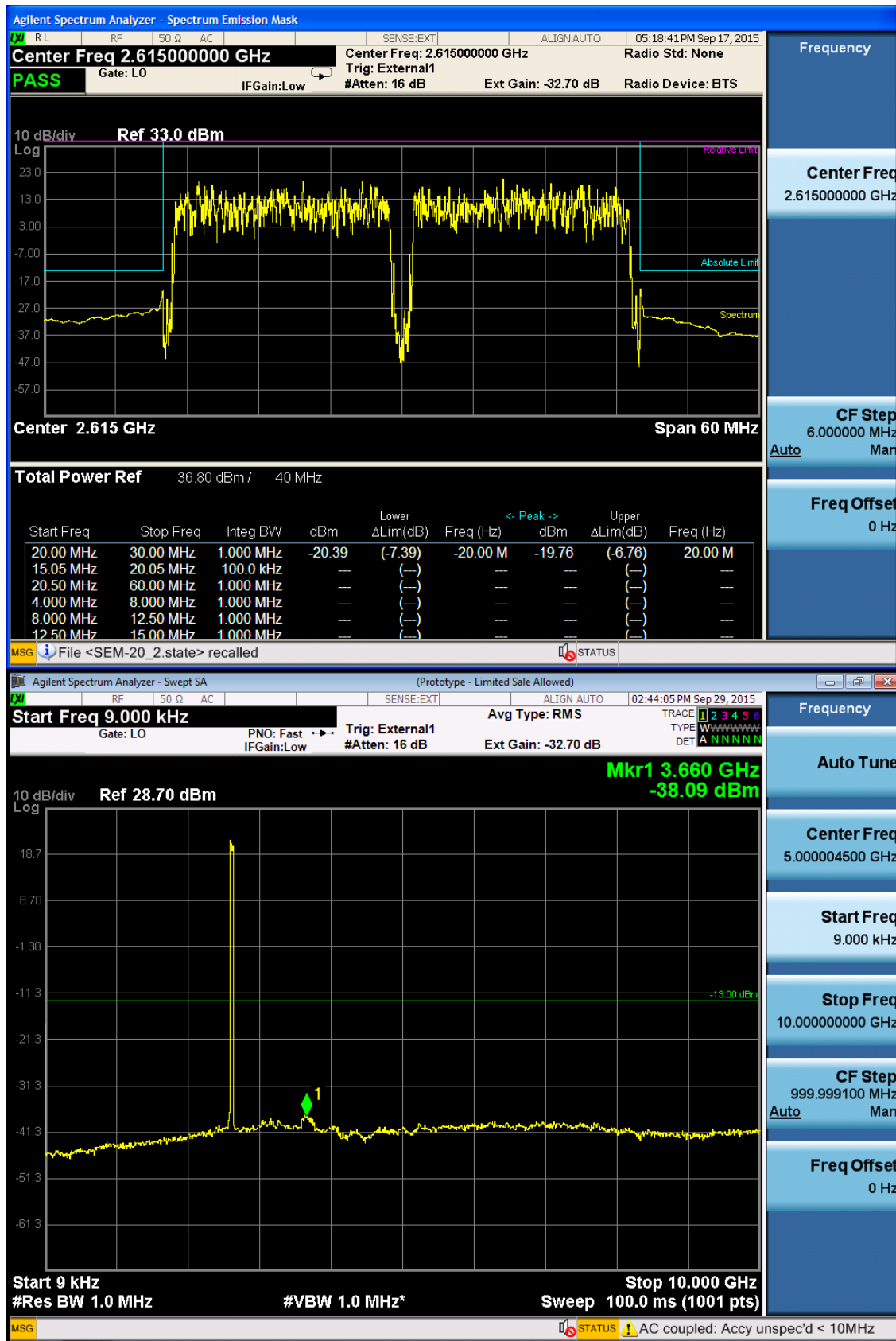


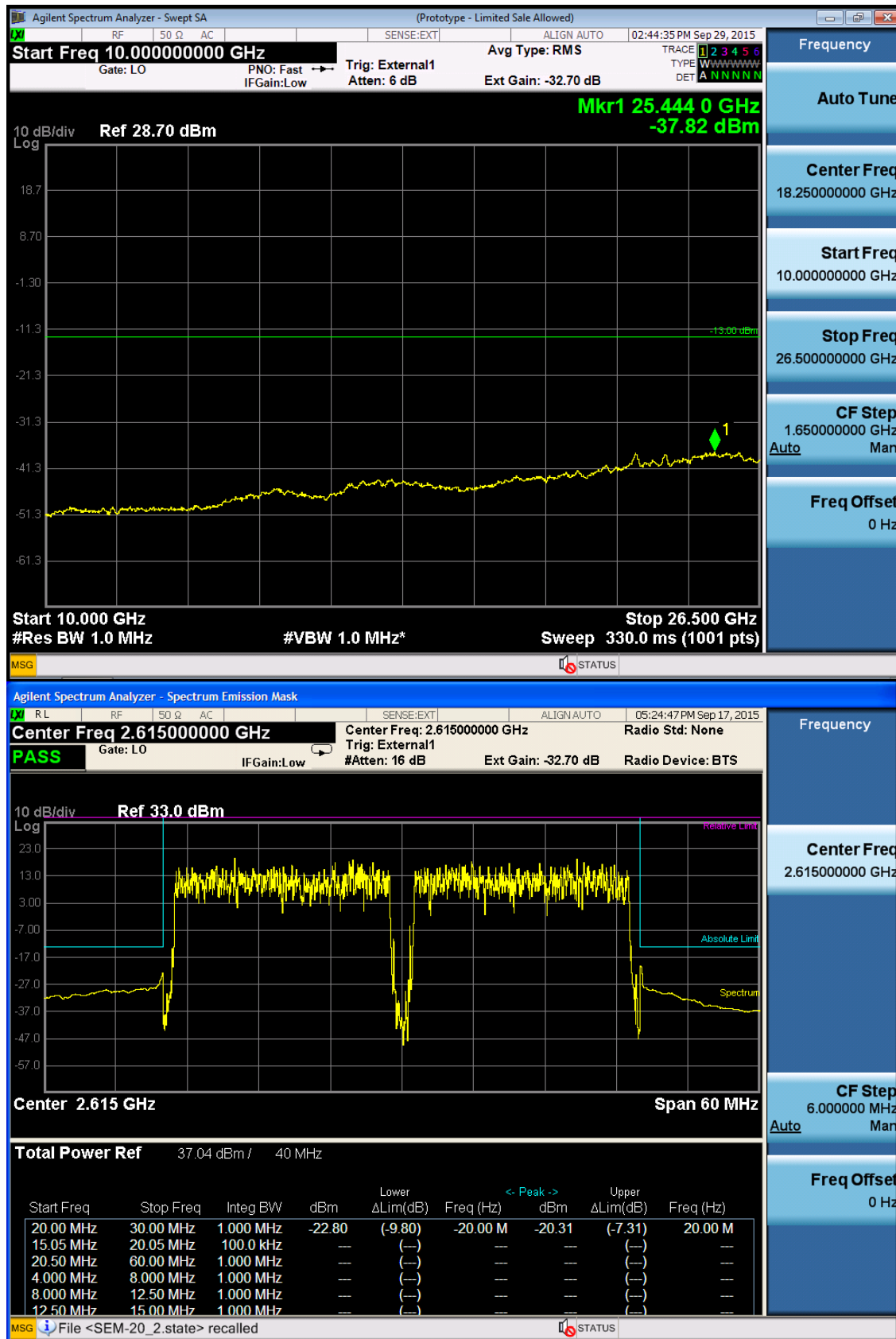


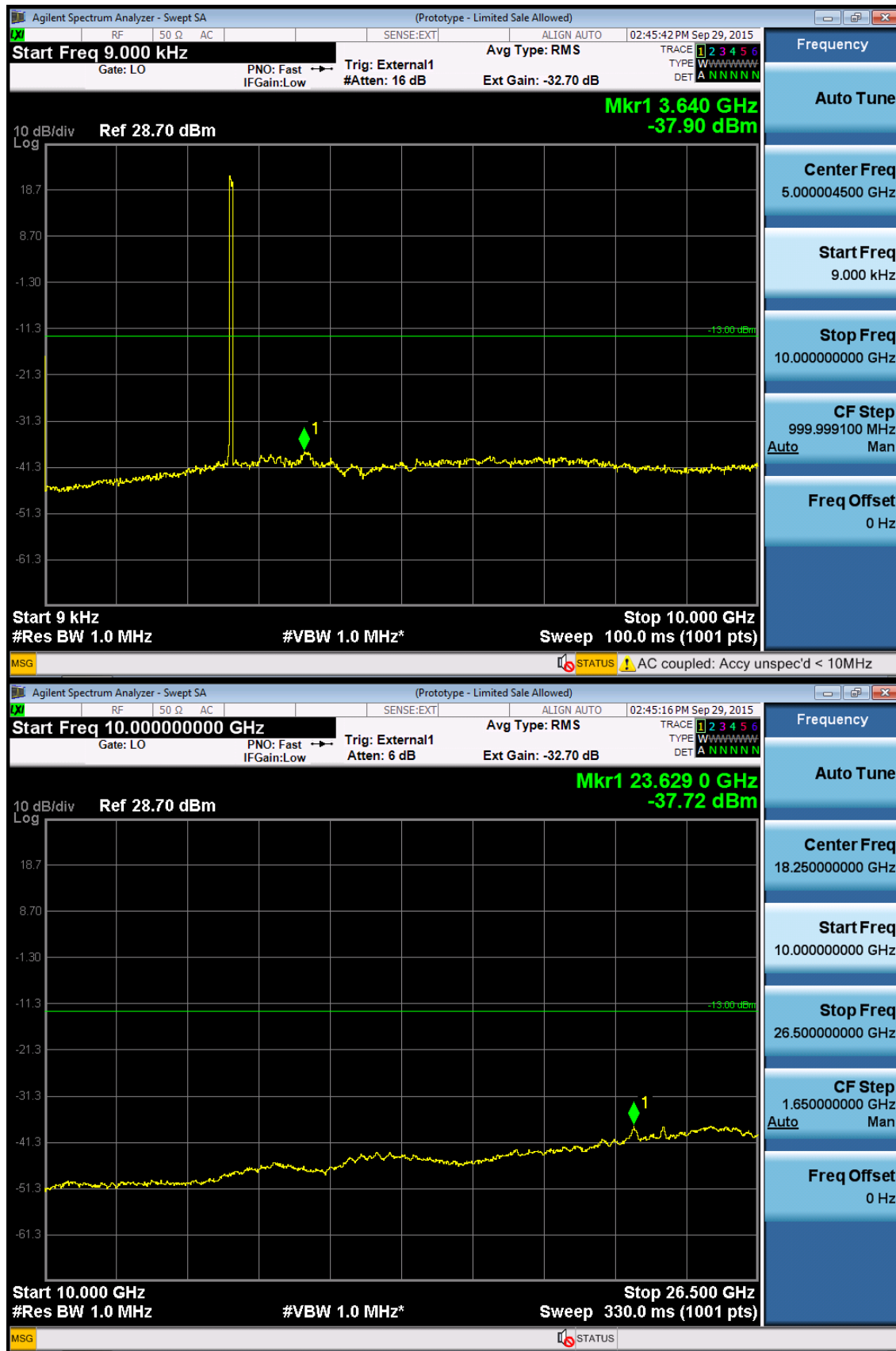


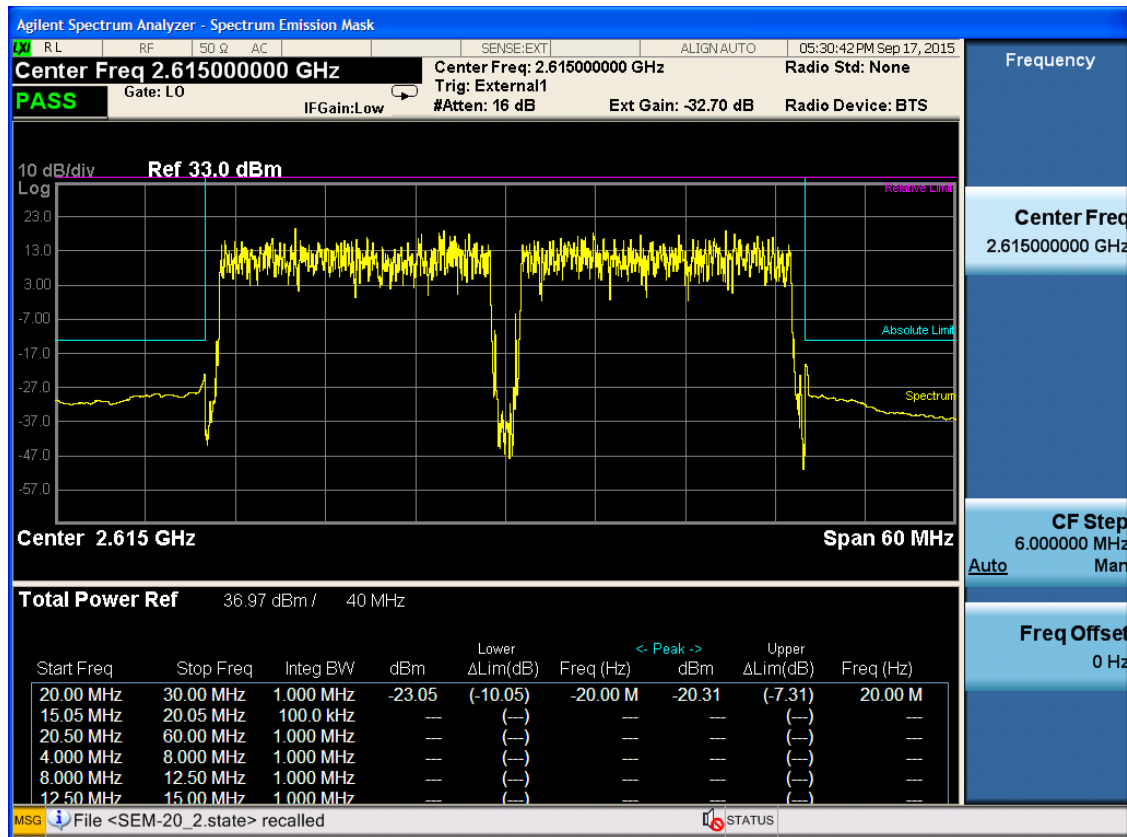












8 FREQUENCY STABILITY

Applicable Standard: FCC § 2.1055

Requirements: FCC § 2.1055 (a)(d), The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
GZ-ESPEC	Temperature Chamber	EW0470	06113028	2015.06.25	2016.06.25

Agilent	MXA Series Spectrum Analyzer	N9020A	MY51240259	2014.12.01	2015.12.01
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***statement of traceability:** ZTE Corporation 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

One Carrier

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2585MHz) FL=2575.14MHz, FH=2594.88MHz
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Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset (MHz)	FH+ Frequency Offset (MHz)	Result
-40	-48	0	QPSK	3.15	2575.14	2594.88	Pass
			16QAM	-3.12	2575.14	2594.88	Pass
			64QAM	3.43	2575.14	2594.88	Pass
		1	QPSK	1.01	2575.14	2594.88	Pass
			16QAM	-1.04	2575.14	2594.88	Pass
			64QAM	0.92	2575.14	2594.88	Pass
-30	-48	0	QPSK	0.74	2575.14	2594.88	Pass
			16QAM	-1.78	2575.14	2594.88	Pass
			64QAM	4.84	2575.14	2594.88	Pass
		1	QPSK	2.73	2575.14	2594.88	Pass
			16QAM	3.12	2575.14	2594.88	Pass
			64QAM	-3.27	2575.14	2594.88	Pass
-20	-48	0	QPSK	1.83	2575.14	2594.88	Pass
			16QAM	0.26	2575.14	2594.88	Pass
			64QAM	-1.92	2575.14	2594.88	Pass
		1	QPSK	2.23	2575.14	2594.88	Pass
			16QAM	-0.66	2575.14	2594.88	Pass
			64QAM	0.72	2575.14	2594.88	Pass
-10	-48	0	QPSK	1.28	2575.14	2594.88	Pass
			16QAM	2.14	2575.14	2594.88	Pass
			64QAM	-0.53	2575.14	2594.88	Pass
		1	QPSK	1.03	2575.14	2594.88	Pass
			16QAM	-0.08	2575.14	2594.88	Pass
			64QAM	-0.27	2575.14	2594.88	Pass
0	-48	0	QPSK	1.91	2575.14	2594.88	Pass
			16QAM	-2.02	2575.14	2594.88	Pass
			64QAM	-0.16	2575.14	2594.88	Pass
		1	QPSK	-2.18	2575.14	2594.88	Pass
			16QAM	3.72	2575.14	2594.88	Pass
			64QAM	3.68	2575.14	2594.88	Pass
10	-48	0	QPSK	4.78	2575.14	2594.88	Pass
			16QAM	0.28	2575.14	2594.88	Pass
			64QAM	2.15	2575.14	2594.88	Pass
		1	QPSK	0.43	2575.14	2594.88	Pass
			16QAM	1.32	2575.14	2594.88	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2585MHz)
FL=2575.14MHz, FH=2594.88MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
			64QAM	-1.57	2575.14	2594.88	Pass
20	-48	0	QPSK	3.22	2575.14	2594.88	Pass
			16QAM	-1.19	2575.14	2594.88	Pass
			64QAM	-1.34	2575.14	2594.88	Pass
		1	QPSK	4.09	2575.14	2594.88	Pass
			16QAM	-0.84	2575.14	2594.88	Pass
			64QAM	-1.7	2575.14	2594.88	Pass
30	-48	0	QPSK	2.53	2575.14	2594.88	Pass
			16QAM	-0.56	2575.14	2594.88	Pass
			64QAM	1.22	2575.14	2594.88	Pass
		1	QPSK	2.52	2575.14	2594.88	Pass
			16QAM	-2.08	2575.14	2594.88	Pass
			64QAM	0.86	2575.14	2594.88	Pass
40	-48	0	QPSK	3.1	2575.14	2594.88	Pass
			16QAM	1.94	2575.14	2594.88	Pass
			64QAM	4.33	2575.14	2594.88	Pass
		1	QPSK	-0.44	2575.14	2594.88	Pass
			16QAM	-0.38	2575.14	2594.88	Pass
			64QAM	3.47	2575.14	2594.88	Pass
50	-48	0	QPSK	2.77	2575.14	2594.88	Pass
			16QAM	1.02	2575.14	2594.88	Pass
			64QAM	2.66	2575.14	2594.88	Pass
		1	QPSK	3.09	2575.14	2594.88	Pass
			16QAM	3.6	2575.14	2594.88	Pass
			64QAM	3.03	2575.14	2594.88	Pass
55	-48	0	QPSK	2.73	2575.14	2594.88	Pass
			16QAM	-1.57	2575.14	2594.88	Pass
			64QAM	-0.48	2575.14	2594.88	Pass
		1	QPSK	0.95	2575.14	2594.88	Pass
			16QAM	-2.87	2575.14	2594.88	Pass
			64QAM	0.69	2575.14	2594.88	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2605MHz)
FL=2595.14MHz, FH=2614.87MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset (MHz)	FH+ Frequency Offset (MHz)	Result
-40	-48	0	QPSK	1.64	2595.14	2614.87	Pass
			16QAM	-1.98	2595.14	2614.87	Pass
			64QAM	1.82	2595.14	2614.87	Pass
		1	QPSK	-1.65	2595.14	2614.87	Pass
			16QAM	1.09	2595.14	2614.87	Pass
			64QAM	1.33	2595.14	2614.87	Pass
-30	-48	0	QPSK	-2.91	2595.14	2614.87	Pass
			16QAM	2.57	2595.14	2614.87	Pass
			64QAM	3.3	2595.14	2614.87	Pass
		1	QPSK	-1.15	2595.14	2614.87	Pass
			16QAM	-0.12	2595.14	2614.87	Pass
			64QAM	-0.97	2595.14	2614.87	Pass
-20	-48	0	QPSK	1.92	2595.14	2614.87	Pass
			16QAM	-1.15	2595.14	2614.87	Pass
			64QAM	-2.63	2595.14	2614.87	Pass
		1	QPSK	4.39	2595.14	2614.87	Pass
			16QAM	2.31	2595.14	2614.87	Pass
			64QAM	3.06	2595.14	2614.87	Pass
-10	-48	0	QPSK	3.83	2595.14	2614.87	Pass
			16QAM	1.33	2595.14	2614.87	Pass
			64QAM	1.47	2595.14	2614.87	Pass
		1	QPSK	-2.51	2595.14	2614.87	Pass
			16QAM	-1.82	2595.14	2614.87	Pass
			64QAM	2	2595.14	2614.87	Pass
0	-48	0	QPSK	0.22	2595.14	2614.87	Pass
			16QAM	-4.1	2595.14	2614.87	Pass
			64QAM	2.9	2595.14	2614.87	Pass
		1	QPSK	-0.12	2595.14	2614.87	Pass
			16QAM	3.57	2595.14	2614.87	Pass
			64QAM	-1.11	2595.14	2614.87	Pass
10	-48	0	QPSK	-3.1	2595.14	2614.87	Pass
			16QAM	-0.02	2595.14	2614.87	Pass
			64QAM	-1.79	2595.14	2614.87	Pass
		1	QPSK	3.35	2595.14	2614.87	Pass
			16QAM	0.56	2595.14	2614.87	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2605MHz)
FL=2595.14MHz, FH=2614.87MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
			64QAM	-0.08	2595.14	2614.87	Pass
20	-48	0	QPSK	0.47	2595.14	2614.87	Pass
			16QAM	1.12	2595.14	2614.87	Pass
			64QAM	1.08	2595.14	2614.87	Pass
		1	QPSK	-1.15	2595.14	2614.87	Pass
			16QAM	-0.38	2595.14	2614.87	Pass
			64QAM	2.95	2595.14	2614.87	Pass
30	-48	0	QPSK	-0.54	2595.14	2614.87	Pass
			16QAM	3.32	2595.14	2614.87	Pass
			64QAM	1.17	2595.14	2614.87	Pass
		1	QPSK	1.67	2595.14	2614.87	Pass
			16QAM	0.25	2595.14	2614.87	Pass
			64QAM	-2.3	2595.14	2614.87	Pass
40	-48	0	QPSK	-3.7	2595.14	2614.87	Pass
			16QAM	1.26	2595.14	2614.87	Pass
			64QAM	1.9	2595.14	2614.87	Pass
		1	QPSK	4.31	2595.14	2614.87	Pass
			16QAM	-3.11	2595.14	2614.87	Pass
			64QAM	0.9	2595.14	2614.87	Pass
50	-48	0	QPSK	-2.51	2595.14	2614.87	Pass
			16QAM	4.2	2595.14	2614.87	Pass
			64QAM	-1.05	2595.14	2614.87	Pass
		1	QPSK	1.22	2595.14	2614.87	Pass
			16QAM	-1.84	2595.14	2614.87	Pass
			64QAM	1.93	2595.14	2614.87	Pass
55	-48	0	QPSK	0.76	2595.14	2614.87	Pass
			16QAM	0.69	2595.14	2614.87	Pass
			64QAM	-0.31	2595.14	2614.87	Pass
		1	QPSK	1.78	2595.14	2614.87	Pass
			16QAM	0.62	2595.14	2614.87	Pass
			64QAM	-2.79	2595.14	2614.87	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2625MHz)
FL=2615.13MHz, FH=2634.88MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset (MHz)	FH+ Frequency Offset (MHz)	Result
-40	-48	0	QPSK	1.12	2615.13	2634.88	Pass
			16QAM	1.68	2615.13	2634.88	Pass
			64QAM	3.54	2615.13	2634.88	Pass
		1	QPSK	-1.55	2615.13	2634.88	Pass
			16QAM	1.64	2615.13	2634.88	Pass
			64QAM	-2.6	2615.13	2634.88	Pass
-30	-48	0	QPSK	3.27	2615.13	2634.88	Pass
			16QAM	-1.1	2615.13	2634.88	Pass
			64QAM	-3.94	2615.13	2634.88	Pass
		1	QPSK	-3.75	2615.13	2634.88	Pass
			16QAM	-1	2615.13	2634.88	Pass
			64QAM	-0.53	2615.13	2634.88	Pass
-20	-48	0	QPSK	3.34	2615.13	2634.88	Pass
			16QAM	1.02	2615.13	2634.88	Pass
			64QAM	-1.05	2615.13	2634.88	Pass
		1	QPSK	-2.36	2615.13	2634.88	Pass
			16QAM	1.75	2615.13	2634.88	Pass
			64QAM	3.17	2615.13	2634.88	Pass
-10	-48	0	QPSK	4.04	2615.13	2634.88	Pass
			16QAM	0.21	2615.13	2634.88	Pass
			64QAM	2.21	2615.13	2634.88	Pass
		1	QPSK	-1.38	2615.13	2634.88	Pass
			16QAM	-1.45	2615.13	2634.88	Pass
			64QAM	1.59	2615.13	2634.88	Pass
0	-48	0	QPSK	1.36	2615.13	2634.88	Pass
			16QAM	4.81	2615.13	2634.88	Pass
			64QAM	-4.75	2615.13	2634.88	Pass
		1	QPSK	1.55	2615.13	2634.88	Pass
			16QAM	2.63	2615.13	2634.88	Pass
			64QAM	1.2	2615.13	2634.88	Pass
10	-48	0	QPSK	1.25	2615.13	2634.88	Pass
			16QAM	-2.33	2615.13	2634.88	Pass
			64QAM	-0.05	2615.13	2634.88	Pass
		1	QPSK	2.04	2615.13	2634.88	Pass
			16QAM	3.98	2615.13	2634.88	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2625MHz)
FL=2615.13MHz, FH=2634.88MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
			64QAM	3.39	2615.13	2634.88	Pass
20	-48	0	QPSK	1.2	2615.13	2634.88	Pass
			16QAM	1.3	2615.13	2634.88	Pass
			64QAM	2.04	2615.13	2634.88	Pass
		1	QPSK	1.77	2615.13	2634.88	Pass
			16QAM	0.07	2615.13	2634.88	Pass
			64QAM	2.45	2615.13	2634.88	Pass
30	-48	0	QPSK	-1.97	2615.13	2634.88	Pass
			16QAM	0.21	2615.13	2634.88	Pass
			64QAM	2.06	2615.13	2634.88	Pass
		1	QPSK	1.05	2615.13	2634.88	Pass
			16QAM	-2.03	2615.13	2634.88	Pass
			64QAM	-0.86	2615.13	2634.88	Pass
40	-48	0	QPSK	1.1	2615.13	2634.88	Pass
			16QAM	1.38	2615.13	2634.88	Pass
			64QAM	-3.31	2615.13	2634.88	Pass
		1	QPSK	2.62	2615.13	2634.88	Pass
			16QAM	-1.68	2615.13	2634.88	Pass
			64QAM	1.86	2615.13	2634.88	Pass
50	-48	0	QPSK	-4.15	2615.13	2634.88	Pass
			16QAM	-1.33	2615.13	2634.88	Pass
			64QAM	3.45	2615.13	2634.88	Pass
		1	QPSK	-2.17	2615.13	2634.88	Pass
			16QAM	1.3	2615.13	2634.88	Pass
			64QAM	2.44	2615.13	2634.88	Pass
55	-48	0	QPSK	-0.46	2615.13	2634.88	Pass
			16QAM	1.03	2615.13	2634.88	Pass
			64QAM	-4.55	2615.13	2634.88	Pass
		1	QPSK	-1.31	2615.13	2634.88	Pass
			16QAM	4.78	2615.13	2634.88	Pass
			64QAM	1.22	2615.13	2634.88	Pass

Two Carrier

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M Frequency :2585+2605MHz) FL=2575.21MHz, FH=2614.78MHz							
Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
-40	-48	0	QPSK	3.09	2575.21	2614.78	Pass
			16QAM	0.33	2575.21	2614.78	Pass
			64QAM	-2.24	2575.21	2614.78	Pass
		1	QPSK	0.13	2575.21	2614.78	Pass
			16QAM	-0.1	2575.21	2614.78	Pass
			64QAM	2.83	2575.21	2614.78	Pass
-30	-48	0	QPSK	-4.52	2575.21	2614.78	Pass
			16QAM	0.09	2575.21	2614.78	Pass
			64QAM	-1.59	2575.21	2614.78	Pass
		1	QPSK	2.1	2575.21	2614.78	Pass
			16QAM	3.69	2575.21	2614.78	Pass
			64QAM	-1.77	2575.21	2614.78	Pass
-20	-48	0	QPSK	1.18	2575.21	2614.78	Pass
			16QAM	1.05	2575.21	2614.78	Pass
			64QAM	-1.21	2575.21	2614.78	Pass
		1	QPSK	-3.24	2575.21	2614.78	Pass
			16QAM	-1.9	2575.21	2614.78	Pass
			64QAM	0.39	2575.21	2614.78	Pass
-10	-48	0	QPSK	-1.85	2575.21	2614.78	Pass
			16QAM	1.28	2575.21	2614.78	Pass
			64QAM	4.87	2575.21	2614.78	Pass
		1	QPSK	-3.97	2575.21	2614.78	Pass
			16QAM	-1.7	2575.21	2614.78	Pass
			64QAM	3.05	2575.21	2614.78	Pass
0	-48	0	QPSK	2.32	2575.21	2614.78	Pass
			16QAM	-2.89	2575.21	2614.78	Pass
			64QAM	3.63	2575.21	2614.78	Pass
		1	QPSK	-4.25	2575.21	2614.78	Pass
			16QAM	1.59	2575.21	2614.78	Pass
			64QAM	-0.15	2575.21	2614.78	Pass
10	-48	0	QPSK	1.17	2575.21	2614.78	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M Frequency :2585+2605MHz)
FL=2575.21MHz, FH=2614.78MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
		1	16QAM	1.63	2575.21	2614.78	Pass
			64QAM	-1.72	2575.21	2614.78	Pass
			QPSK	1.49	2575.21	2614.78	Pass
			16QAM	-1.44	2575.21	2614.78	Pass
			64QAM	1.04	2575.21	2614.78	Pass
			64QAM	1.04	2575.21	2614.78	Pass
20	-48	0	QPSK	-3.97	2575.21	2614.78	Pass
			16QAM	0.3	2575.21	2614.78	Pass
			64QAM	3.32	2575.21	2614.78	Pass
		1	QPSK	-1.02	2575.21	2614.78	Pass
			16QAM	1.11	2575.21	2614.78	Pass
			64QAM	-1.9	2575.21	2614.78	Pass
30	-48	0	QPSK	1.88	2575.21	2614.78	Pass
			16QAM	2.5	2575.21	2614.78	Pass
			64QAM	-1.74	2575.21	2614.78	Pass
		1	QPSK	-4.1	2575.21	2614.78	Pass
			16QAM	1.18	2575.21	2614.78	Pass
			64QAM	4.71	2575.21	2614.78	Pass
40	-48	0	QPSK	3.69	2575.21	2614.78	Pass
			16QAM	3.13	2575.21	2614.78	Pass
			64QAM	1.11	2575.21	2614.78	Pass
		1	QPSK	-1.16	2575.21	2614.78	Pass
			16QAM	-2.07	2575.21	2614.78	Pass
			64QAM	3.95	2575.21	2614.78	Pass
50	-48	0	QPSK	1.11	2575.21	2614.78	Pass
			16QAM	0.99	2575.21	2614.78	Pass
			64QAM	-0.26	2575.21	2614.78	Pass
		1	QPSK	1.94	2575.21	2614.78	Pass
			16QAM	-2.93	2575.21	2614.78	Pass
			64QAM	-1.69	2575.21	2614.78	Pass
55	-48	0	QPSK	-1.18	2575.21	2614.78	Pass
			16QAM	3.15	2575.21	2614.78	Pass
			64QAM	2.16	2575.21	2614.78	Pass
		1	QPSK	-0.44	2575.21	2614.78	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M Frequency :2585+2605MHz)
FL=2575.21MHz, FH=2614.78MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset (MHz)	FH+ Frequency Offset (MHz)	Result
			16QAM	4.86	2575.21	2614.78	Pass
			64QAM	-4.81	2575.21	2614.78	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M Frequency :2605+2625MHz)
FL=2595.22MHz, FH=2634.76MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset (MHz)	FH+ Frequency Offset (MHz)	Result
-40	-48	0	QPSK	-3.34	2595.22	2634.76	Pass
			16QAM	3.63	2595.22	2634.76	Pass
			64QAM	1.5	2595.22	2634.76	Pass
		1	QPSK	1.25	2595.22	2634.76	Pass
			16QAM	1.39	2595.22	2634.76	Pass
			64QAM	-3.29	2595.22	2634.76	Pass
-30	-48	0	QPSK	-0.14	2595.22	2634.76	Pass
			16QAM	3.05	2595.22	2634.76	Pass
			64QAM	0.16	2595.22	2634.76	Pass
		1	QPSK	1.15	2595.22	2634.76	Pass
			16QAM	-4.09	2595.22	2634.76	Pass
			64QAM	2.14	2595.22	2634.76	Pass
-20	-48	0	QPSK	-3.33	2595.22	2634.76	Pass
			16QAM	0.69	2595.22	2634.76	Pass
			64QAM	1.16	2595.22	2634.76	Pass
		1	QPSK	3.92	2595.22	2634.76	Pass
			16QAM	-2.3	2595.22	2634.76	Pass
			64QAM	0.99	2595.22	2634.76	Pass
-10	-48	0	QPSK	-2.79	2595.22	2634.76	Pass
			16QAM	4.51	2595.22	2634.76	Pass
			64QAM	1.94	2595.22	2634.76	Pass
		1	QPSK	-0.02	2595.22	2634.76	Pass
			16QAM	0.22	2595.22	2634.76	Pass
			64QAM	-0.57	2595.22	2634.76	Pass
0	-48	0	QPSK	-1.56	2595.22	2634.76	Pass

**Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M Frequency :2605+2625MHz)
 FL=2595.22MHz, FH=2634.76MHz**

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
		1	16QAM	-2.08	2595.22	2634.76	Pass
			64QAM	-2.74	2595.22	2634.76	Pass
			QPSK	0.48	2595.22	2634.76	Pass
			16QAM	-4.22	2595.22	2634.76	Pass
			64QAM	0.11	2595.22	2634.76	Pass
10	-48	0	QPSK	-1.92	2595.22	2634.76	Pass
			16QAM	1.19	2595.22	2634.76	Pass
			64QAM	3.25	2595.22	2634.76	Pass
		1	QPSK	0.53	2595.22	2634.76	Pass
			16QAM	-2.05	2595.22	2634.76	Pass
			64QAM	0.37	2595.22	2634.76	Pass
20	-48	0	QPSK	-1.08	2595.22	2634.76	Pass
			16QAM	-0.98	2595.22	2634.76	Pass
			64QAM	1.59	2595.22	2634.76	Pass
		1	QPSK	1.1	2595.22	2634.76	Pass
			16QAM	-2.73	2595.22	2634.76	Pass
			64QAM	4.7	2595.22	2634.76	Pass
30	-48	0	QPSK	1.81	2595.22	2634.76	Pass
			16QAM	-0.72	2595.22	2634.76	Pass
			64QAM	1.54	2595.22	2634.76	Pass
		1	QPSK	2.17	2595.22	2634.76	Pass
			16QAM	-3.3	2595.22	2634.76	Pass
			64QAM	-4.55	2595.22	2634.76	Pass
40	-48	0	QPSK	-3.23	2595.22	2634.76	Pass
			16QAM	-1.73	2595.22	2634.76	Pass
			64QAM	4.4	2595.22	2634.76	Pass
		1	QPSK	-1.07	2595.22	2634.76	Pass
			16QAM	-1.7	2595.22	2634.76	Pass
			64QAM	0.77	2595.22	2634.76	Pass
50	-48	0	QPSK	1.99	2595.22	2634.76	Pass
			16QAM	-1.66	2595.22	2634.76	Pass
			64QAM	-0.26	2595.22	2634.76	Pass
		1	QPSK	2.51	2595.22	2634.76	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2605+2625MHz)
FL=2595.22MHz, FH=2634.76MHz

Temperature (°C)	Power Supplied (V _{DC})	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
55	-48		16QAM	4.37	2595.22	2634.76	Pass
			64QAM	0.78	2595.22	2634.76	Pass
			QPSK	-1.22	2595.22	2634.76	Pass
		0	16QAM	4.85	2595.22	2634.76	Pass
			64QAM	-3.01	2595.22	2634.76	Pass
			QPSK	2.43	2595.22	2634.76	Pass
			16QAM	0.74	2595.22	2634.76	Pass
			64QAM	-3.16	2595.22	2634.76	Pass
			QPSK				

Frequency Stability versus Voltage

One Carrier

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2585MHz)
FL=2575.14MHz, FH=2594.88MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
85%	25°C	0	QPSK	-1.19	2575.14	2594.88	Pass
			16QAM	2.11	2575.14	2594.88	Pass
			64QAM	1.01	2575.14	2594.88	Pass
		1	QPSK	-1.81	2575.14	2594.88	Pass
			16QAM	-0.89	2575.14	2594.88	Pass
			64QAM	1.97	2575.14	2594.88	Pass
			QPSK	1.42	2575.14	2594.88	Pass
			16QAM	1.19	2575.14	2594.88	Pass
			64QAM	1.55	2575.14	2594.88	Pass
100%	25°C	0	QPSK	2.36	2575.14	2594.88	Pass
			16QAM	-1.73	2575.14	2594.88	Pass
			64QAM	-2.03	2575.14	2594.88	Pass
		1	QPSK				
			16QAM				
			64QAM				
115%	25°C	0	QPSK	-1.92	2575.14	2594.88	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2585MHz)
FL=2575.14MHz, FH=2594.88MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
			16QAM	-0.43	2575.14	2594.88	Pass
			64QAM	2.13	2575.14	2594.88	Pass
		1	QPSK	8.44	2575.14	2594.88	Pass
			16QAM	3.97	2575.14	2594.88	Pass
			64QAM	1.58	2575.14	2594.88	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2605MHz)
FL=2595.14MHz, FH=2614.87MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
85%	25°C	0	QPSK	-3.89	2595.14	2614.87	Pass
			16QAM	2.8	2595.14	2614.87	Pass
			64QAM	0.88	2595.14	2614.87	Pass
		1	QPSK	2.84	2595.14	2614.87	Pass
			16QAM	-3.37	2595.14	2614.87	Pass
			64QAM	-1.74	2595.14	2614.87	Pass
100%	25°C	0	QPSK	-0.87	2595.14	2614.87	Pass
			16QAM	-2.2	2595.14	2614.87	Pass
			64QAM	-1.15	2595.14	2614.87	Pass
		1	QPSK	1.34	2595.14	2614.87	Pass
			16QAM	-0.51	2595.14	2614.87	Pass
			64QAM	0.22	2595.14	2614.87	Pass
115%	25°C	0	QPSK	-4.66	2595.14	2614.87	Pass
			16QAM	1.83	2595.14	2614.87	Pass
			64QAM	-0.27	2595.14	2614.87	Pass
		1	QPSK	-0.66	2595.14	2614.87	Pass
			16QAM	-0.17	2595.14	2614.87	Pass
			64QAM	0.28	2595.14	2614.87	Pass

Frequency Stability vs. Temperature (Channel Bandwidth:20M Frequency :2625MHz)
FL=2615.13MHz, FH=2634.88MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
85%	25°C	0	QPSK	-0.38	2615.13	2634.88	Pass
			16QAM	1.53	2615.13	2634.88	Pass
			64QAM	3.63	2615.13	2634.88	Pass
		1	QPSK	-3.64	2615.13	2634.88	Pass
			16QAM	0.14	2615.13	2634.88	Pass
			64QAM	3.64	2615.13	2634.88	Pass
100%	25°C	0	QPSK	-0.74	2615.13	2634.88	Pass
			16QAM	3.21	2615.13	2634.88	Pass
			64QAM	2.06	2615.13	2634.88	Pass
		1	QPSK	-0.8	2615.13	2634.88	Pass
			16QAM	2.29	2615.13	2634.88	Pass
			64QAM	1.02	2615.13	2634.88	Pass
115%	25°C	0	QPSK	-3.1	2615.13	2634.88	Pass
			16QAM	1.78	2615.13	2634.88	Pass
			64QAM	-4.69	2615.13	2634.88	Pass
		1	QPSK	-1.78	2615.13	2634.88	Pass
			16QAM	-4.18	2615.13	2634.88	Pass
			64QAM	-0.29	2615.13	2634.88	Pass

Two Carrier

Frequency Stability vs. Temperature (Channel Bandwidth:25M+25M Frequency :2585+2605MHz)
FL=2575.21MHz, FH=2614.78MHz

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
85%	25°C	0	QPSK	1.61	2575.21	2614.78	Pass
			16QAM	-3.57	2575.21	2614.78	Pass
			64QAM	3.12	2575.21	2614.78	Pass
		1	QPSK	-1.26	2575.21	2614.78	Pass
			16QAM	1.75	2575.21	2614.78	Pass
			64QAM	4.04	2575.21	2614.78	Pass
100%	25°C	0	QPSK	-1.42	2575.21	2614.78	Pass
			16QAM	1.73	2575.21	2614.78	Pass

**Frequency Stability vs. Temperature (Channel Bandwidth:25M+25M Frequency :2585+2605MHz)
FL=2575.21MHz, FH=2614.78MHz**

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
115%	25°C	1	64QAM	0.11	2575.21	2614.78	Pass
			QPSK	2.71	2575.21	2614.78	Pass
			16QAM	-0.19	2575.21	2614.78	Pass
			64QAM	2.23	2575.21	2614.78	Pass
		0	QPSK	0.31	2575.21	2614.78	Pass
			16QAM	3.81	2575.21	2614.78	Pass
			64QAM	1.6	2575.21	2614.78	Pass
		1	QPSK	4.31	2575.21	2614.78	Pass
			16QAM	-1.24	2575.21	2614.78	Pass
			64QAM	-1.54	2575.21	2614.78	Pass

**Frequency Stability vs. Temperature (Channel Bandwidth:20M+20M Frequency :2605+2625MHz)
FL=2595.22MHz, FH=2634.76MHz**

Voltage: Ref=-48V (%)	Temperature (°C)	Port	Modulation	Frequency Measure Error (Hz)	FL+ Frequency Offset(MHz)	FH+ Frequency Offset(MHz)	Result
85%	25°C	0	QPSK	4.13	2595.22	2634.76	Pass
			16QAM	2.94	2595.22	2634.76	Pass
			64QAM	-1.66	2595.22	2634.76	Pass
		1	QPSK	-0.84	2595.22	2634.76	Pass
			16QAM	-1.81	2595.22	2634.76	Pass
			64QAM	0.96	2595.22	2634.76	Pass
100%	25°C	0	QPSK	-2.25	2595.22	2634.76	Pass
			16QAM	-3.21	2595.22	2634.76	Pass
			64QAM	0.11	2595.22	2634.76	Pass
		1	QPSK	2.05	2595.22	2634.76	Pass
			16QAM	1.02	2595.22	2634.76	Pass
			64QAM	3.79	2595.22	2634.76	Pass
115%	25°C	0	QPSK	1.51	2595.22	2634.76	Pass
			16QAM	3.54	2595.22	2634.76	Pass
			64QAM	-0.44	2595.22	2634.76	Pass
		1	QPSK	-4.01	2595.22	2634.76	Pass
			16QAM	2.93	2595.22	2634.76	Pass
			64QAM	0.94	2595.22	2634.76	Pass