4.9   Spurious RF Conducted Emission

TEST CONFIGURATION

```
┌──────────────┐              ┌──────────────┐
│              │              │   SPECTRUM   │
│     EUT      │──────────────│   ANALYZER   │
│              │              │              │
└──────────────┘              └──────────────┘
```
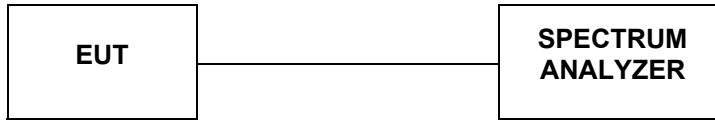
TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300KHz to measure the peak field strength , and measurement frequency range from 9KHz to 26.5GHz.

LIMIT

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

TEST RESULTS

Remark:
1. We test Frequency Separation at difference Packet Type (DH1, DH3 and DH5), recorded worst case at DH5.
2.For 9KHz -30MHz,Because there was only background, So We did not recorded data.

4.9.1   GFSK Test Mode

A.   Test Verdict

| Channel	Frequency (MHz)	Frequency Range	Refer to Plot	Limit (dBc)	Verdict
00	2402	2.402 GHz	Plot 4.9.1 A1	---	PASS
		30MHz-3GHz	Plot 4.9.1 A2	-20	PASS
		3GHz-5GHz	Plot 4.9.1 A3	-20	PASS
		5GHz-10GHz	Plot 4.9.1 A4	-20	PASS
		10GHz-15GHz	Plot 4.9.1 A5	-20	PASS
		15GHz-25GHz	Plot 4.9.1 A6	-20	PASS
39	2441	2.441 GHz	Plot 4.9.1 B1	---	PASS
		30MHz-3GHz	Plot 4.9.1 B2	-20	PASS
		3GHz-5GHz	Plot 4.9.1 B3	-20	PASS
		5GHz-10GHz	Plot 4.9.1 B4	-20	PASS
		10GHz-15GHz	Plot 4.9.1 B5	-20	PASS
		15GHz-25GHz	Plot 4.9.1 B6	-20	PASS
78	2480	2.480 GHz	Plot 4.9.1 C1	---	PASS
		30MHz-3GHz	Plot 4.9.1 C2	-20	PASS
		3GHz-5GHz	Plot 4.9.1 C3	-20	PASS
		5GHz-10GHz	Plot 4.9.1 C4	-20	PASS
		10GHz-15GHz	Plot 4.9.1 C5	-20	PASS
		15GHz-25GHz	Plot 4.9.1 C6	-20	PASS

Note:
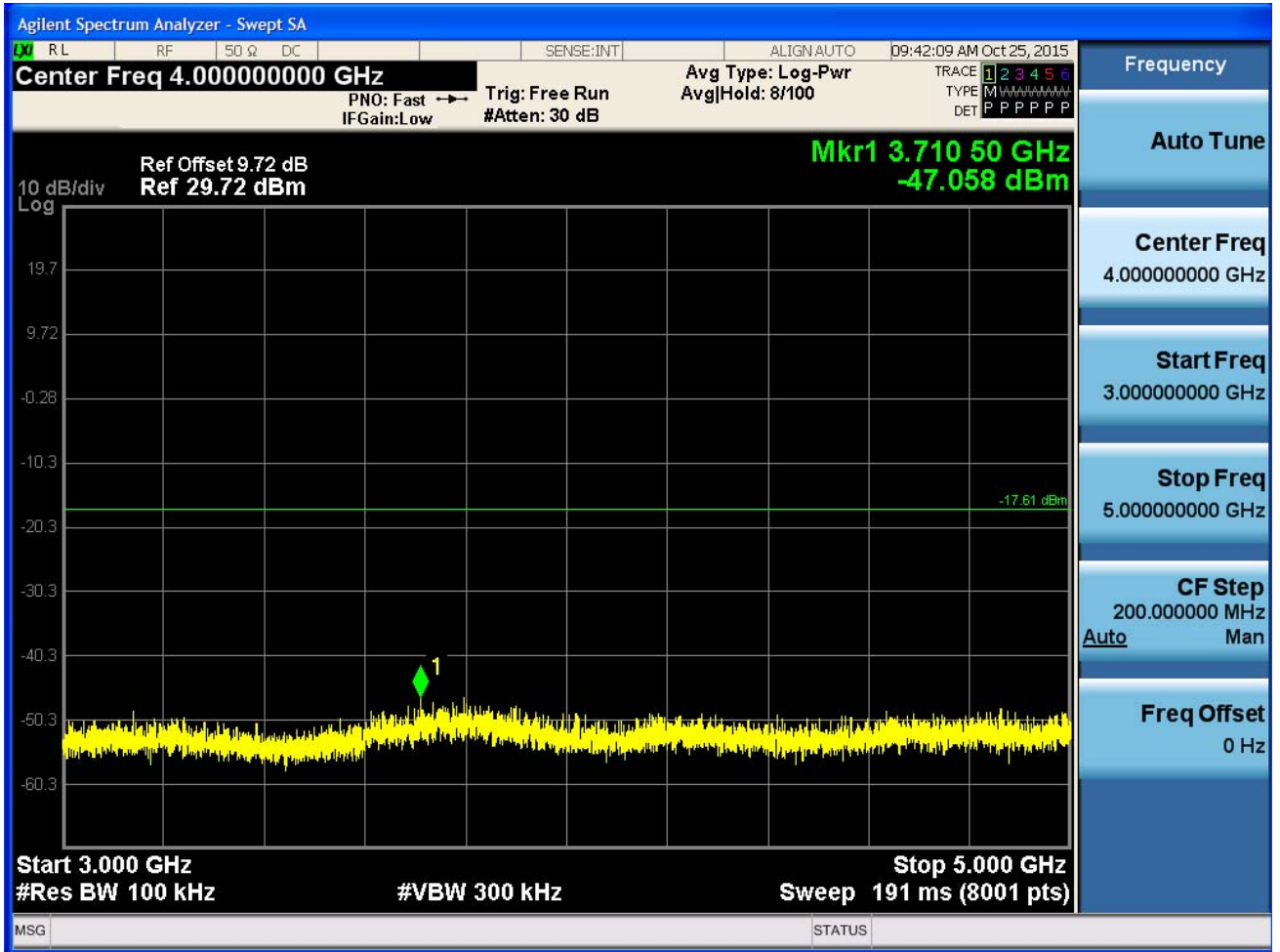1. The test results including the cable lose.
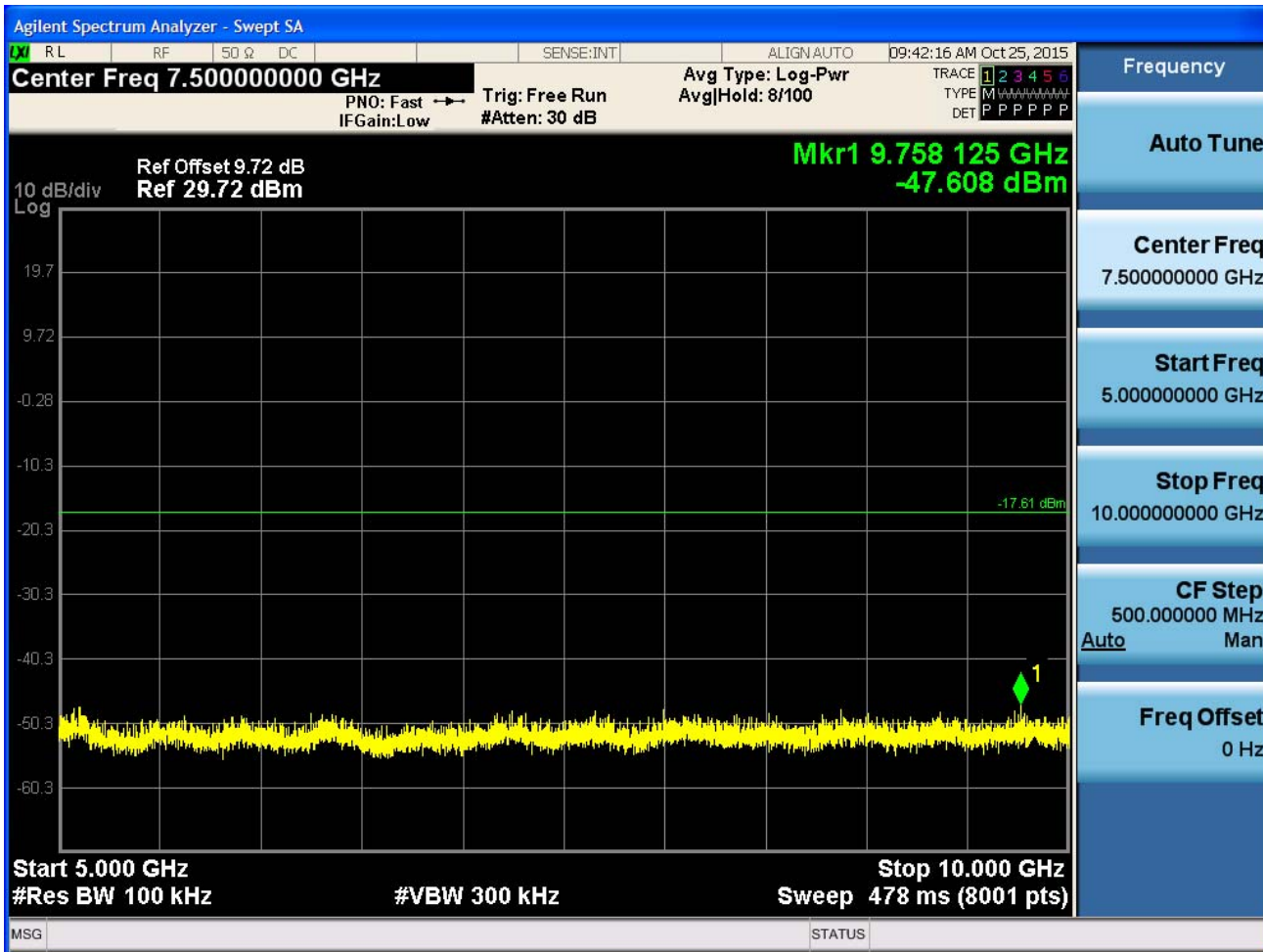
B.   Test Plots
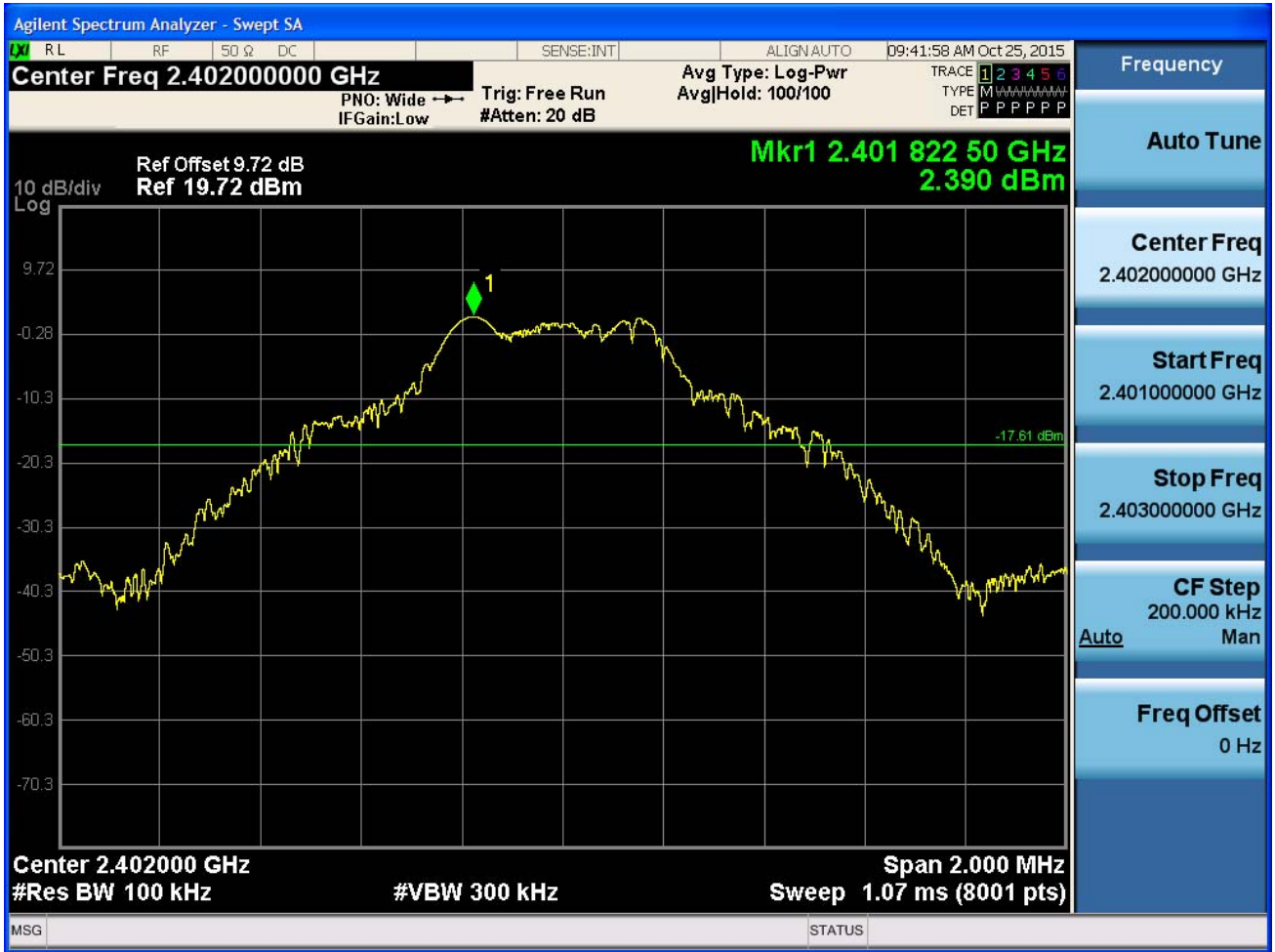
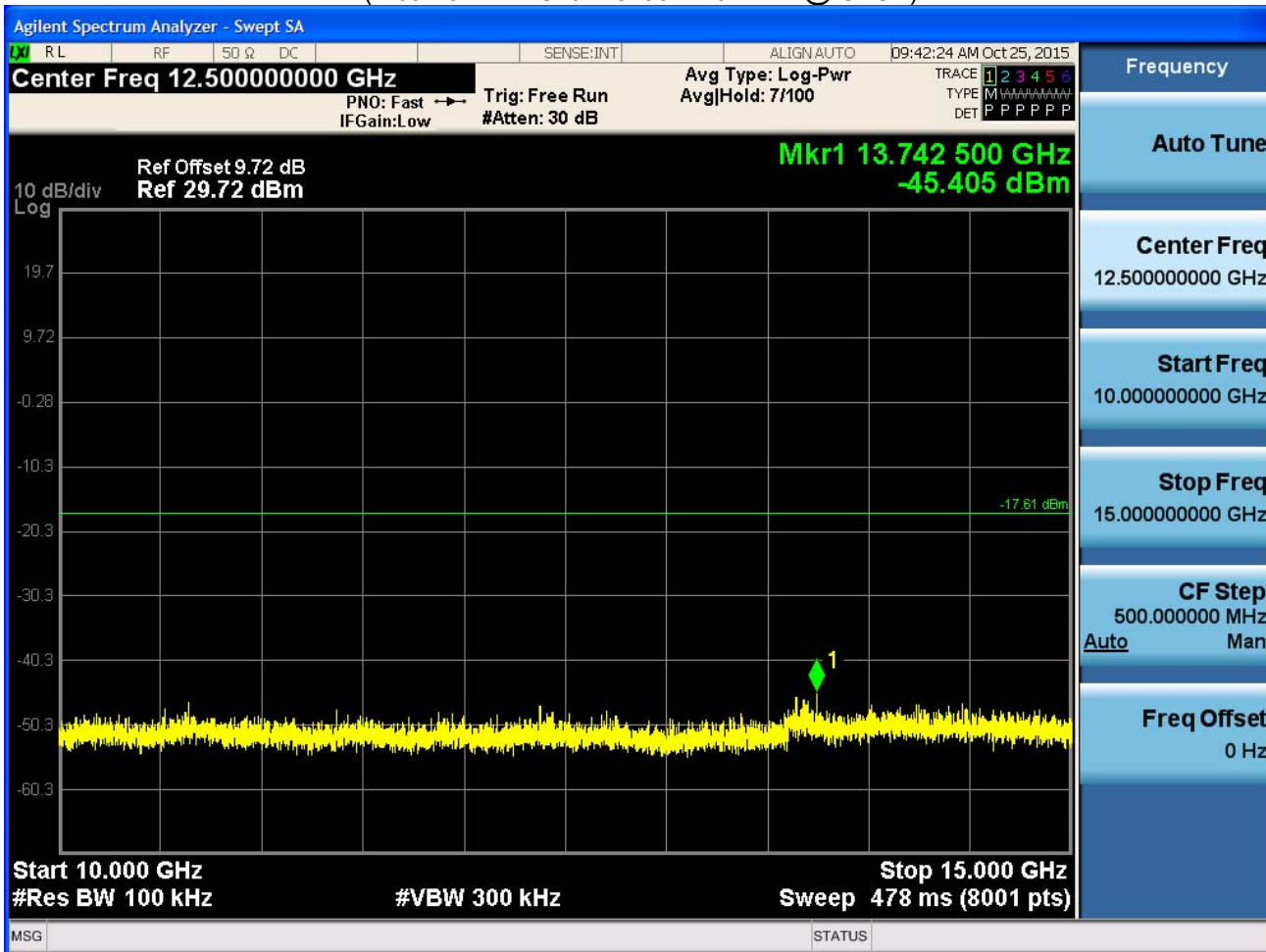(Plot 4.9.1 A1: Channel 00: 2402MHz @ GFSK)
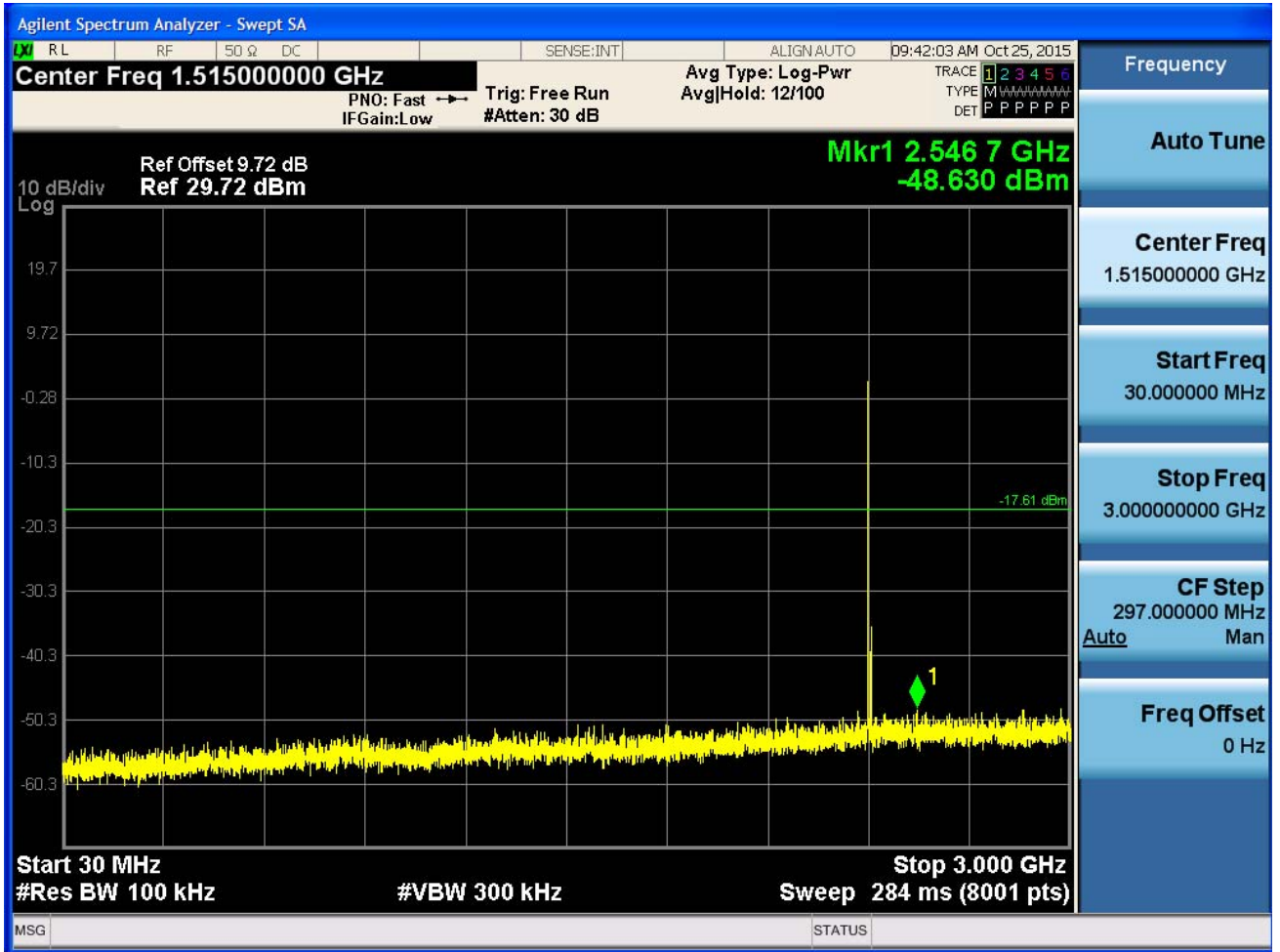
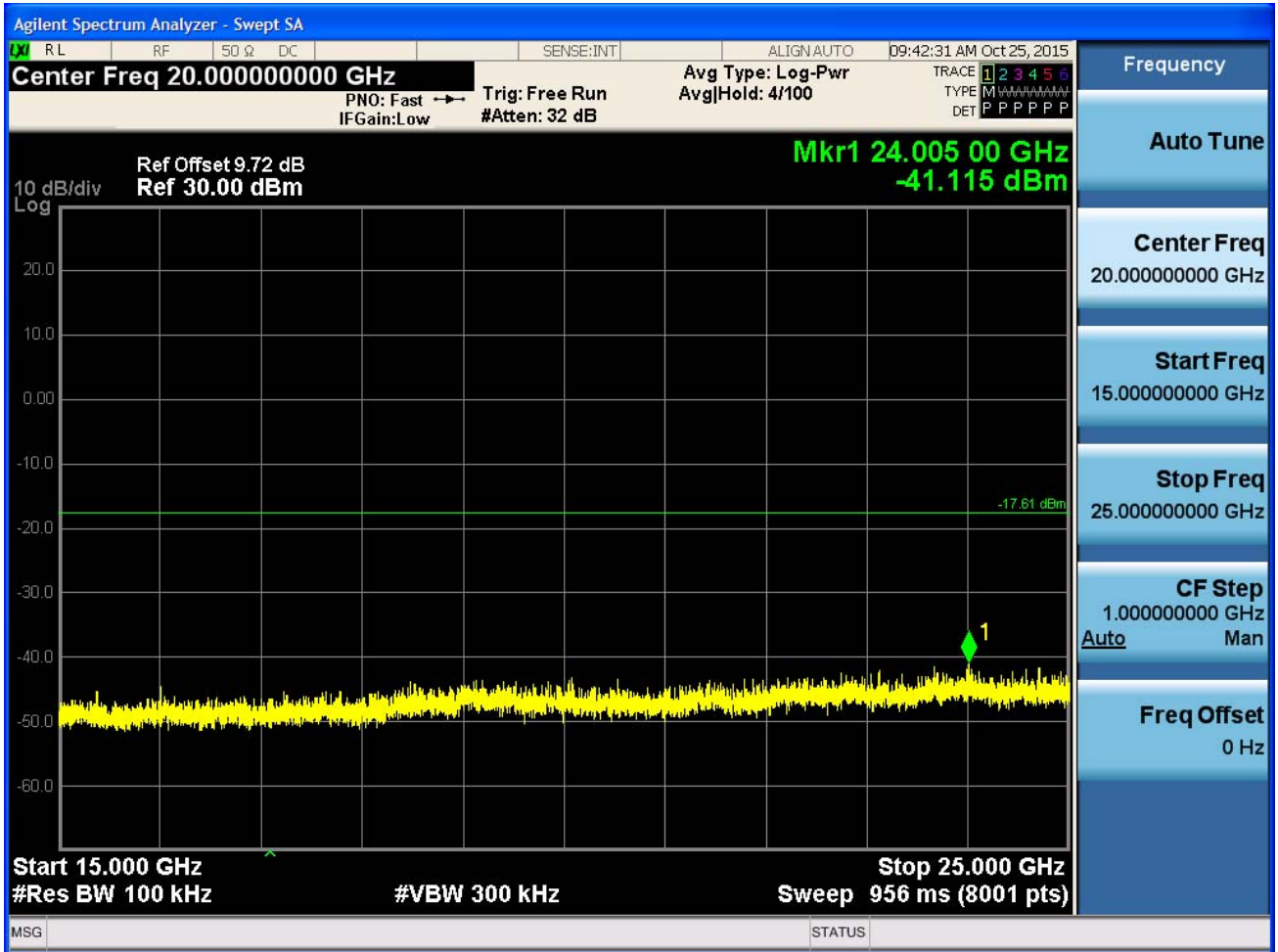(Plot 4.9.1 A2: Channel 00: 2402MHz @ GFSK)

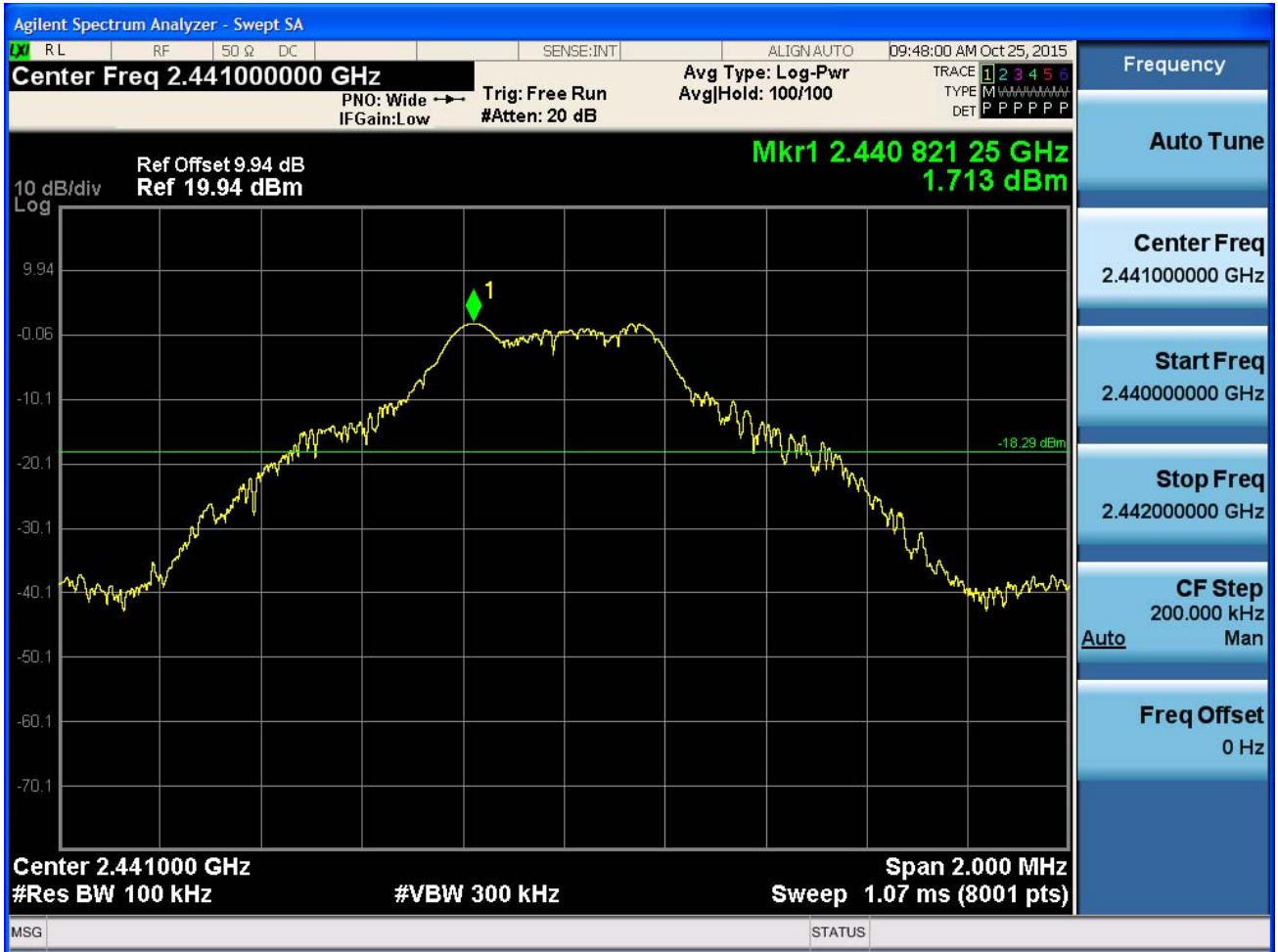(Plot 4.9.1 A3: Channel 00: 2402MHz @ GFSK)

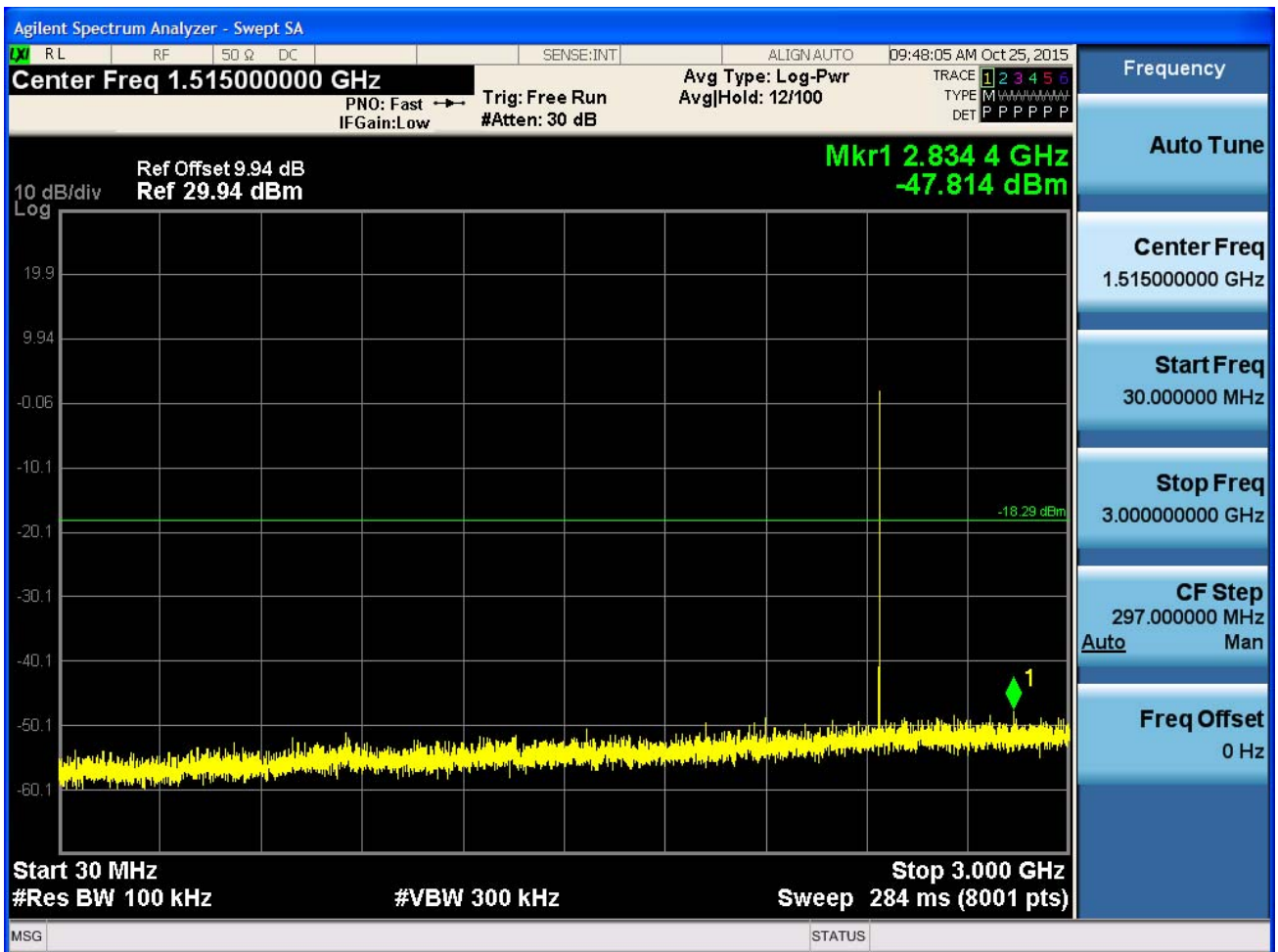(Plot 4.9.1 A4: Channel 00: 2402MHz @ GFSK)

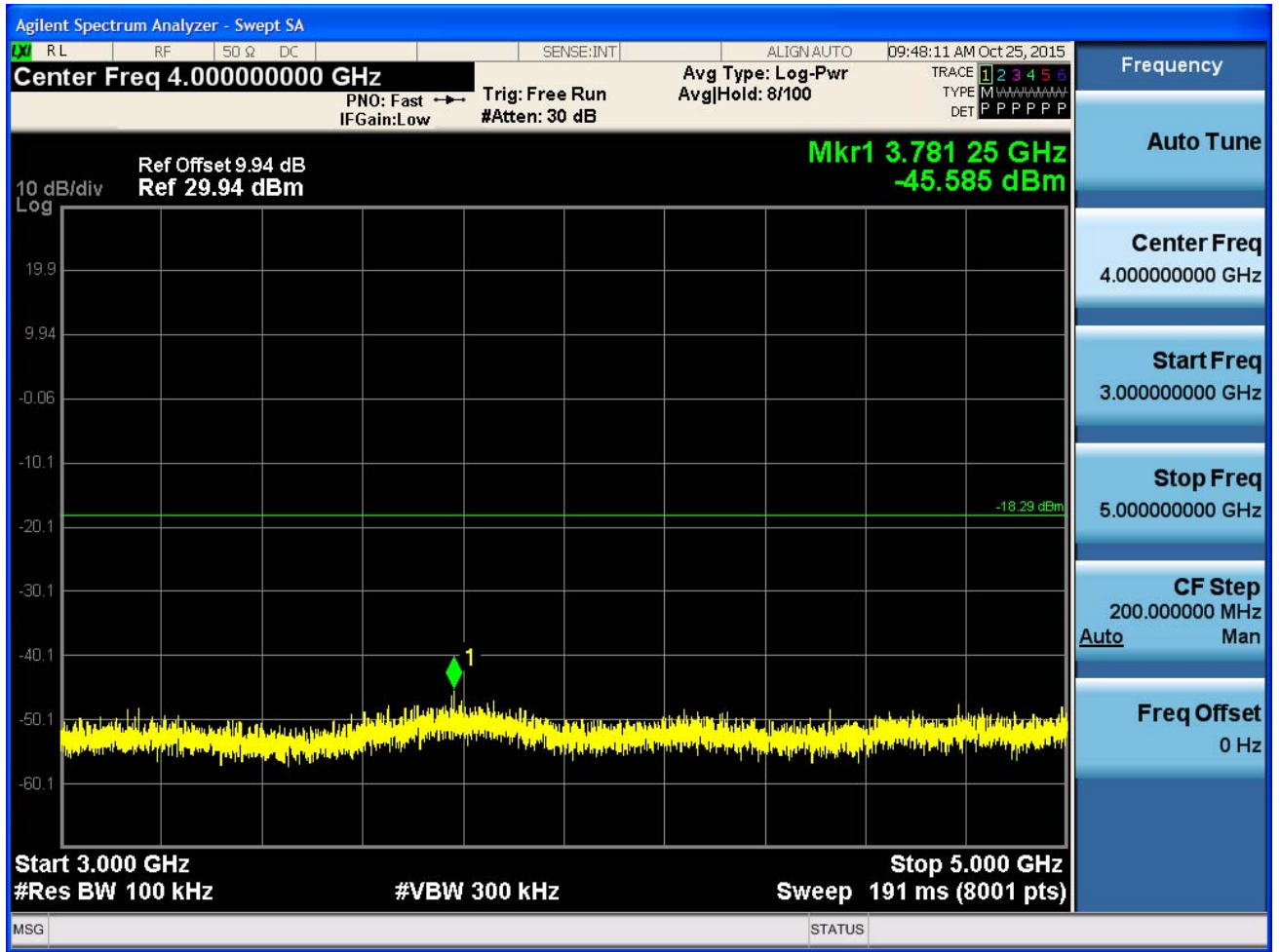
(Plot 4.9.1 A5:Channel 00: 2402MHz @ GFSK)

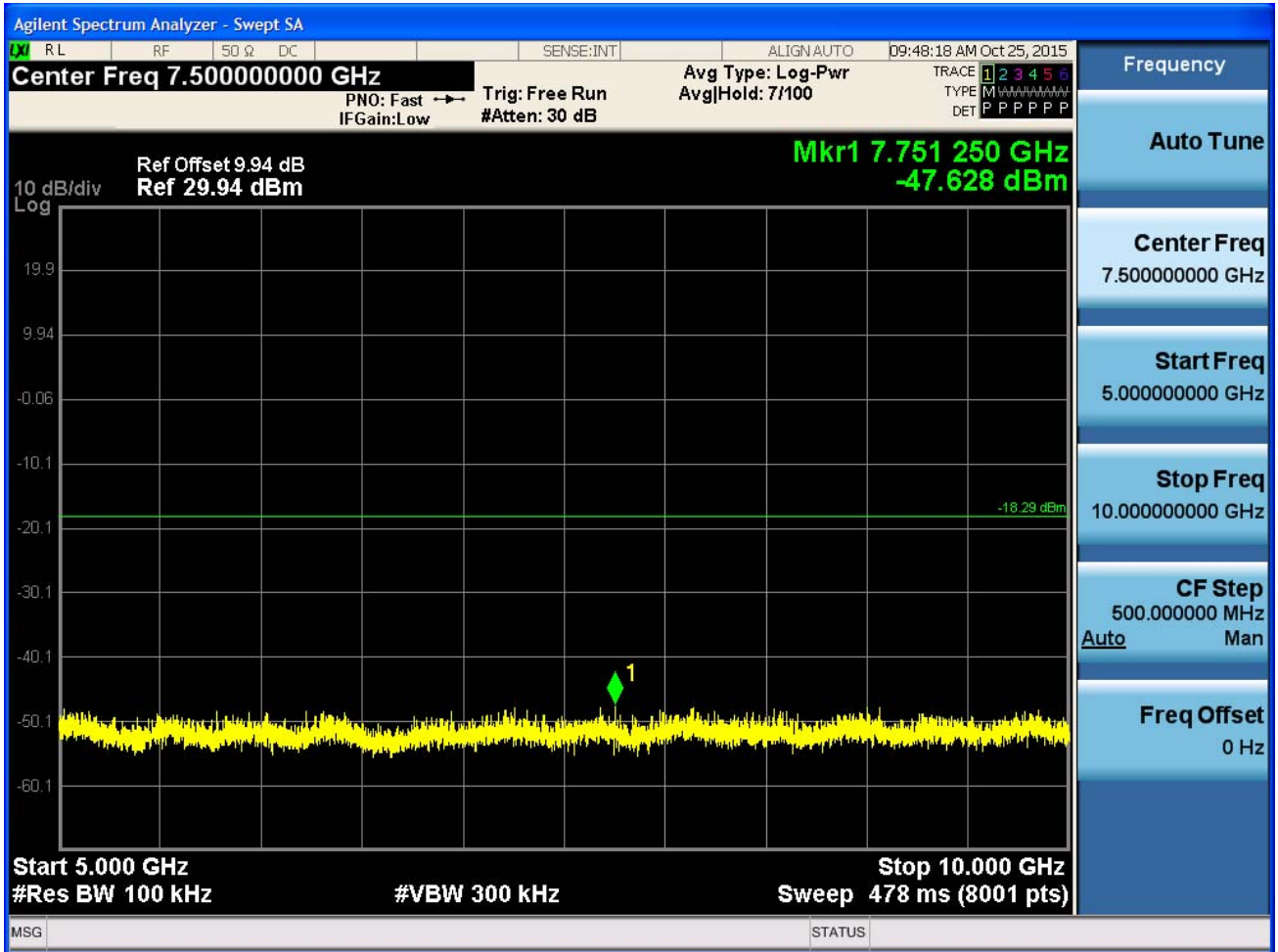(Plot 4.9.1 A6: Channel 00: 2402MHz @ GFSK)

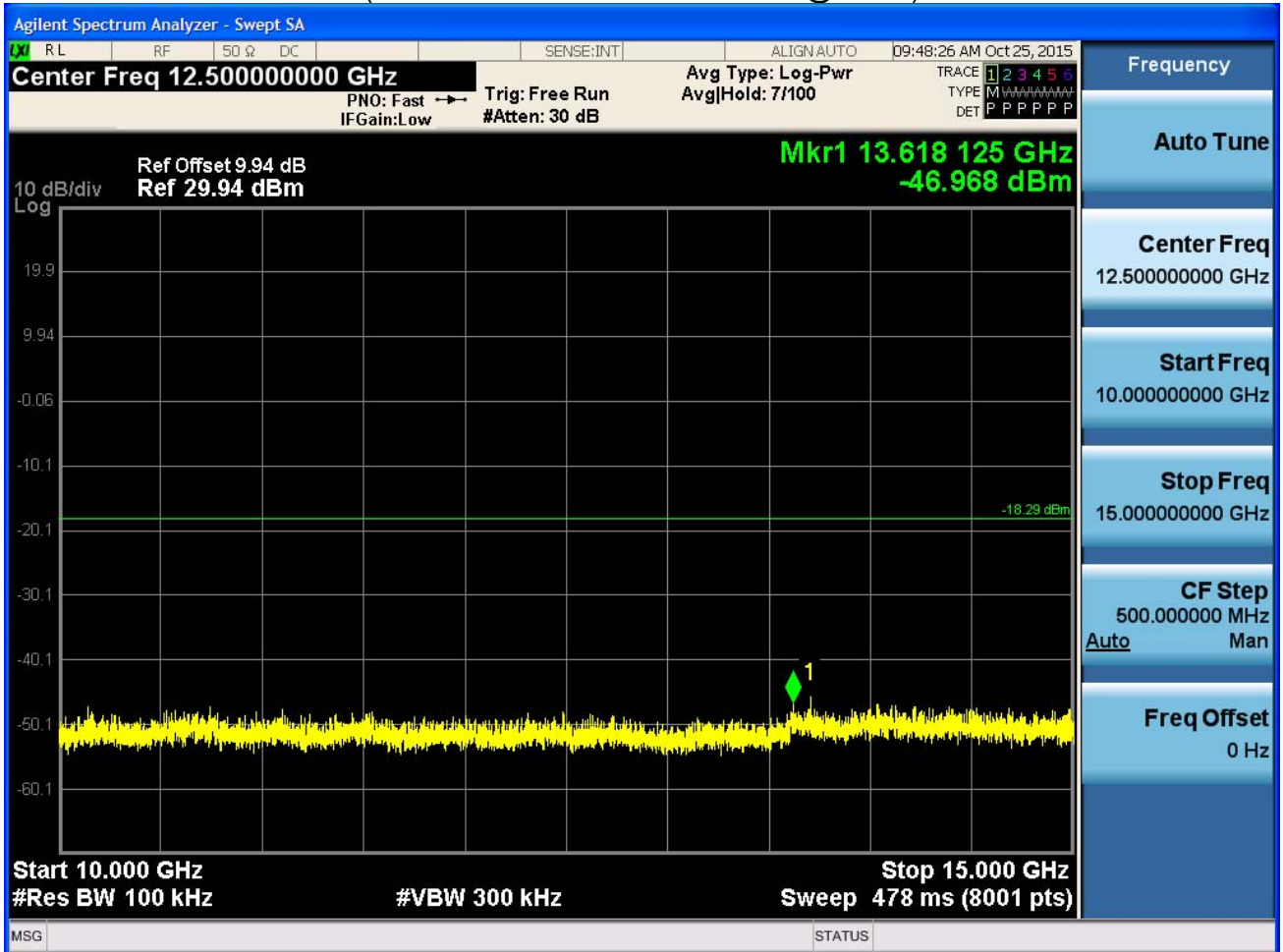(Plot 4.9.1 B1: Channel 39: 2441MHz @ GFSK)

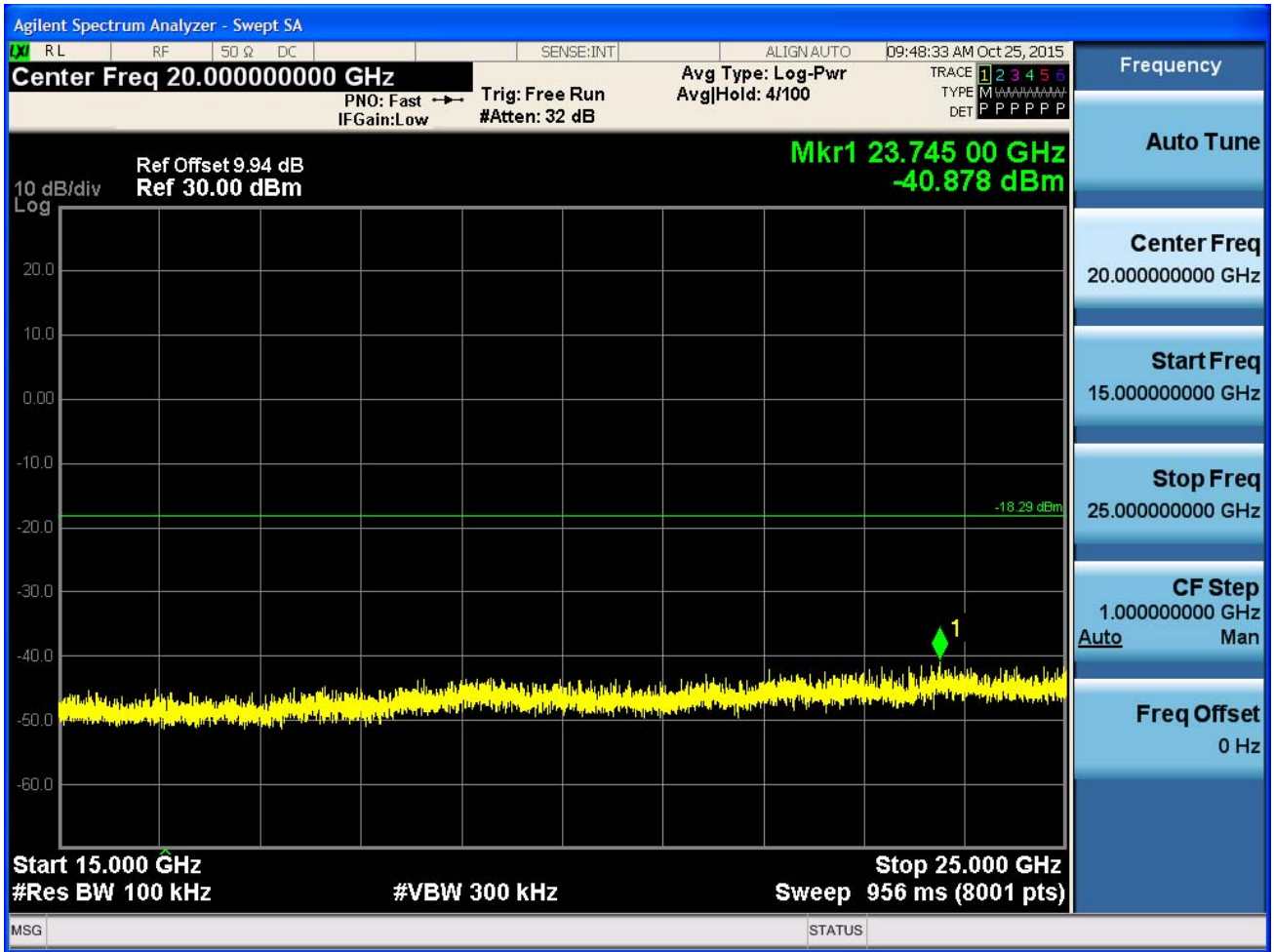(Plot 4.9.1 B2: Channel 39: 2441MHz @ GFSK)

(Plot 4.9.1 B3: Channel 39: 2441MHz @ GFSK)
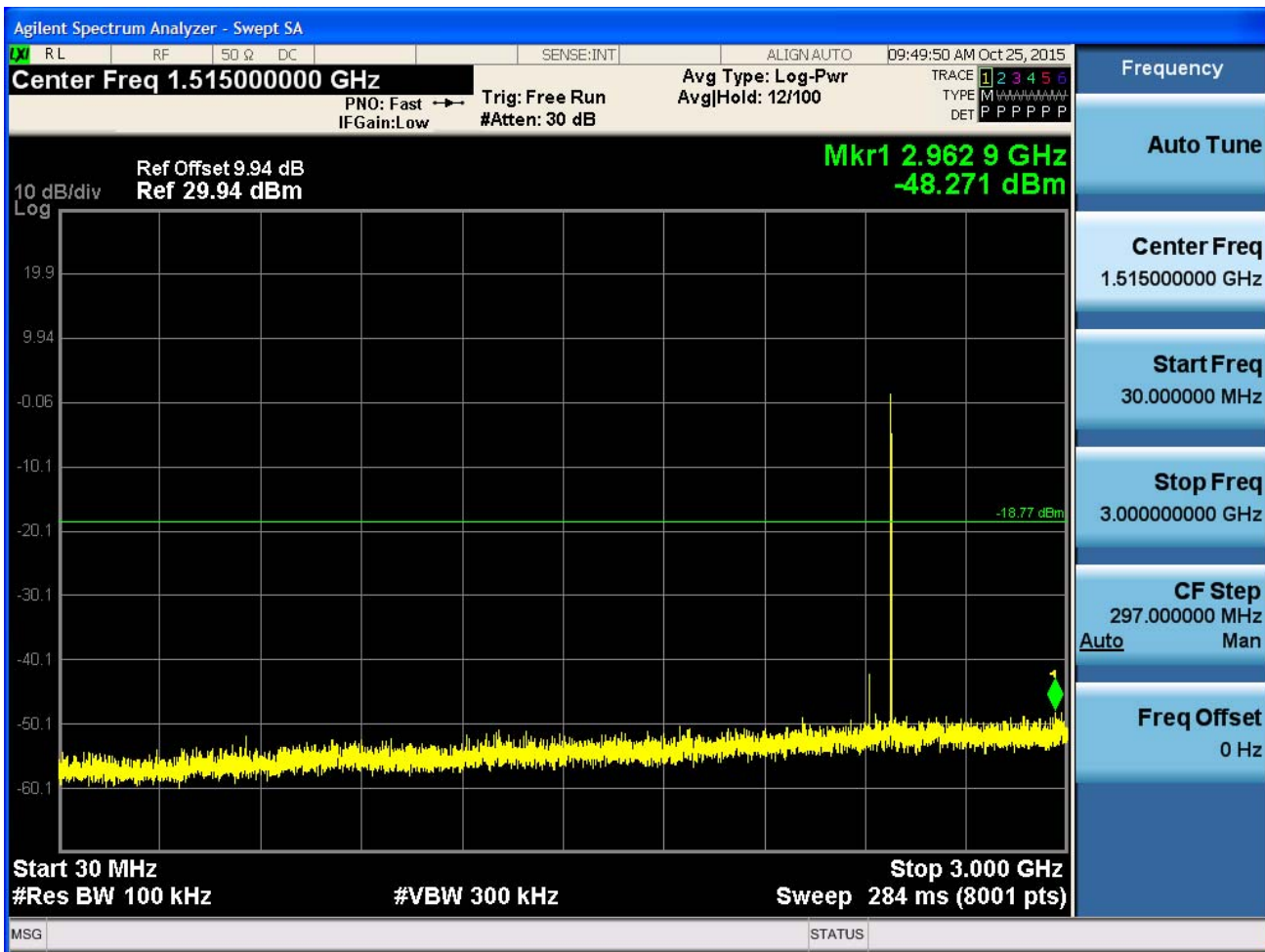
(Plot 4.9.1 B4: Channel 39: 2441MHz @ GFSK)
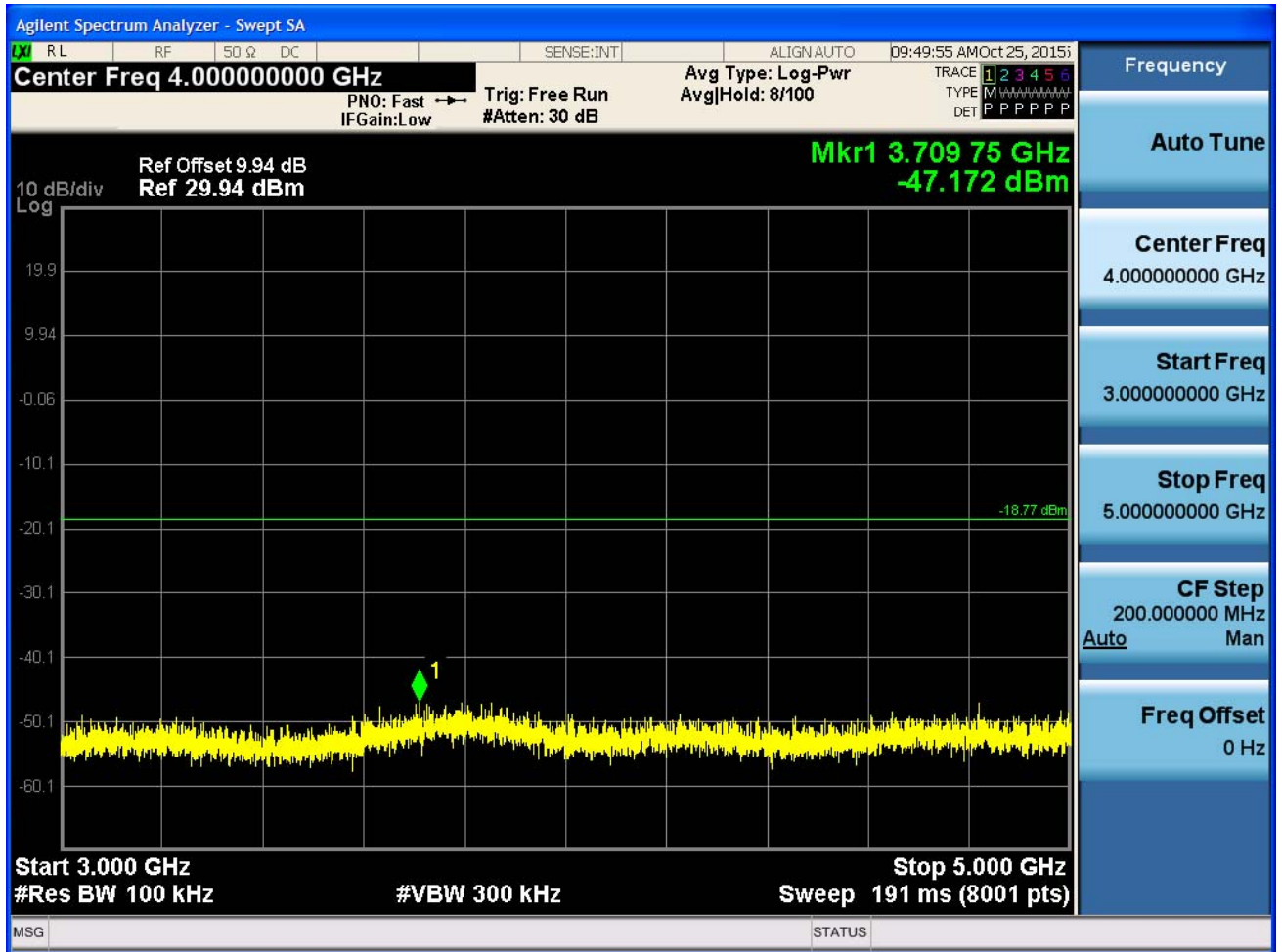

(Plot 4.9.1 B5: Channel 39: 2441MHz @ GFSK)
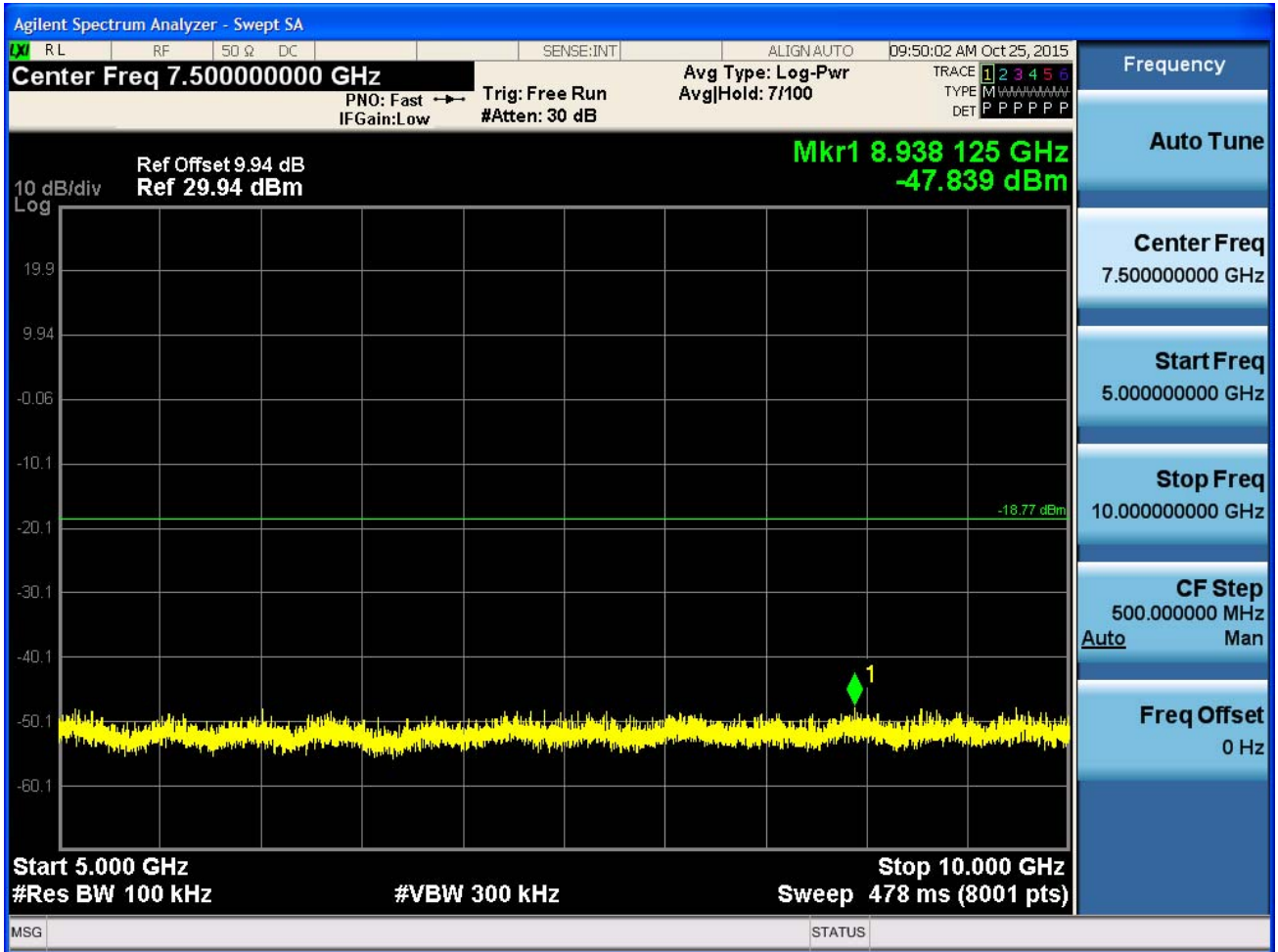
(Plot 4.9.1 B6: Channel 39: 2441MHz @ GFSK)

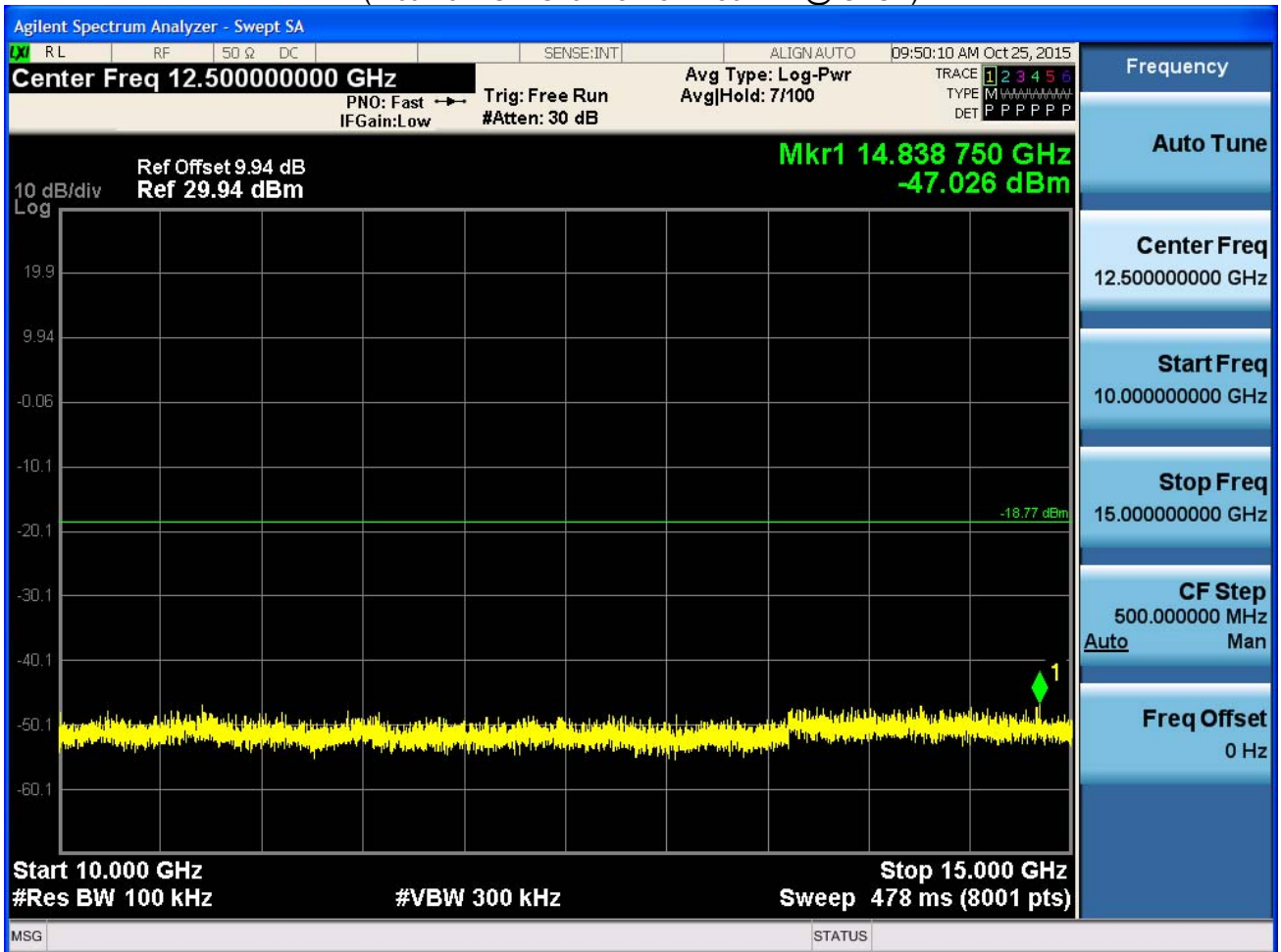(Plot 4.9.1 C1: Channel 78: 2480MHz @ GFSK)
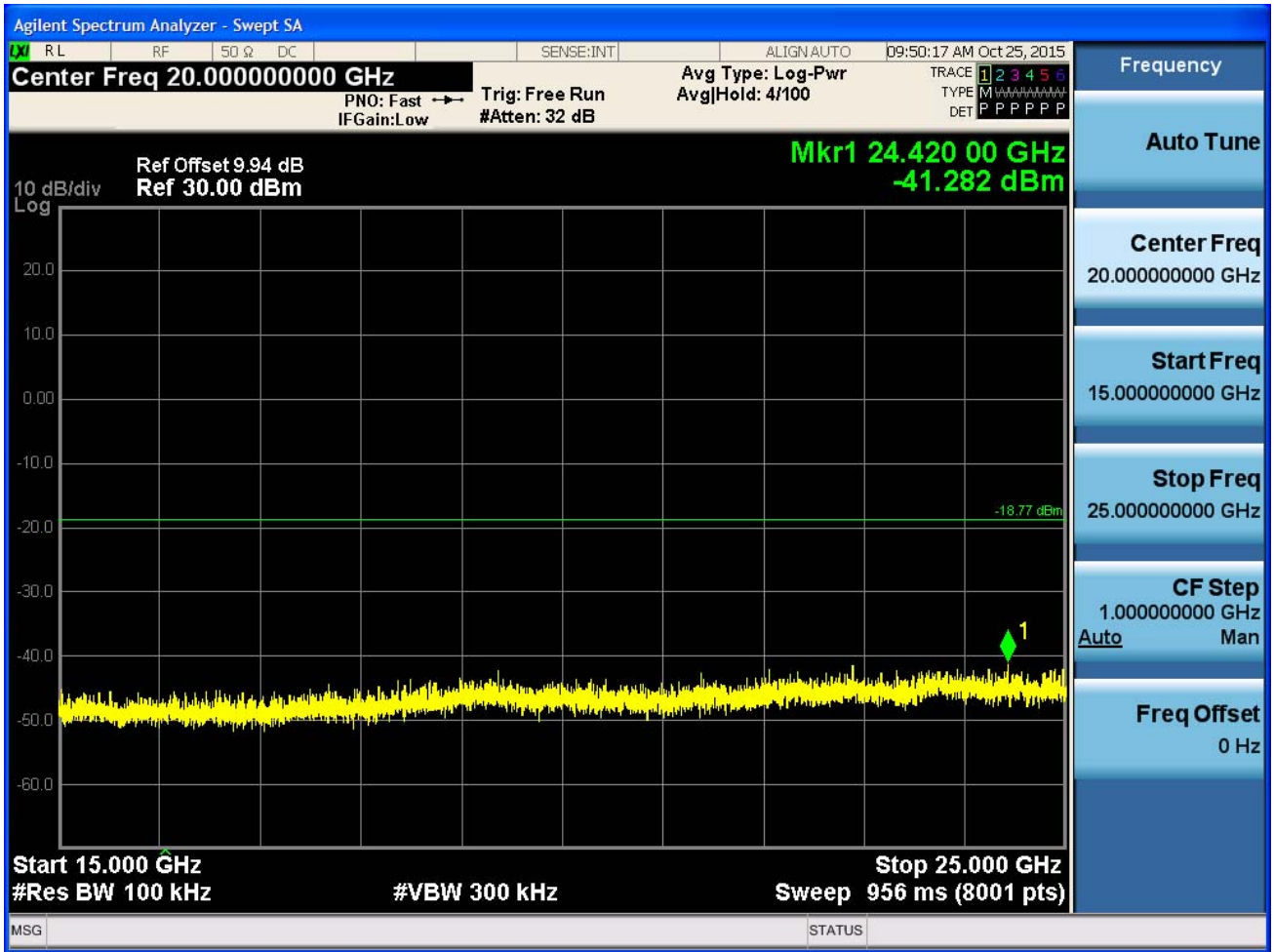
(Plot 4.9.1 C2: Channel 78: 2480MHz @ GFSK)

(Plot 4.9.1 C3: Channel 78: 2480MHz @ GFSK)

(Plot 4.9.1 C4: Channel 78: 2480MHz @ GFSK)

(Plot 4.9.1 C5: Channel 78: 2480MHz @ GFSK)

(Plot 4.9.1 C6: Channel 78: 2480MHz @ GFSK)

4.9.2 8DPSK Test Mode

A. Test Verdict

| Channel	Frequency (MHz)	Frequency Range	Refer to Plot	Limit (dBc)	Verdict
00	2402	2.402 GHz	Plot 4.9.2 A1	---	PASS
		30MHz-3GHz	Plot 4.9.2 A2	-20	PASS
		3GHz-5GHz	Plot 4.9.2 A3	-20	PASS
		5GHz-10GHz	Plot 4.9.2 A4	-20	PASS
		10GHz-15GHz	Plot 4.9.2 A5	-20	PASS
		15GHz-20GHz	Plot 4.9.2 A6	-20	PASS
39	2441	2.402 GHz	Plot 4.9.2 B1	---	PASS
		30MHz-3GHz	Plot 4.9.2 B2	-20	PASS
		3GHz-5GHz	Plot 4.9.2 B3	-20	PASS
		5GHz-10GHz	Plot 4.9.2 B4	-20	PASS
		10GHz-15GHz	Plot 4.9.2 B5	-20	PASS
		15GHz-20GHz	Plot 4.9.2 B6	-20	PASS
78	2480	2.402 GHz	Plot 4.9.2 C1	---	PASS
		30MHz-3GHz	Plot 4.9.2 C2	-20	PASS
		3GHz-5GHz	Plot 4.9.2 C3	-20	PASS
		5GHz-10GHz	Plot 4.9.2 C4	-20	PASS
		10GHz-15GHz	Plot 4.9.2 C5	-20	PASS
		15GHz-20GHz	Plot 4.9.2 C6	-20	PASS

Note:
1. The test results including the cable lose.

B. Test Plots
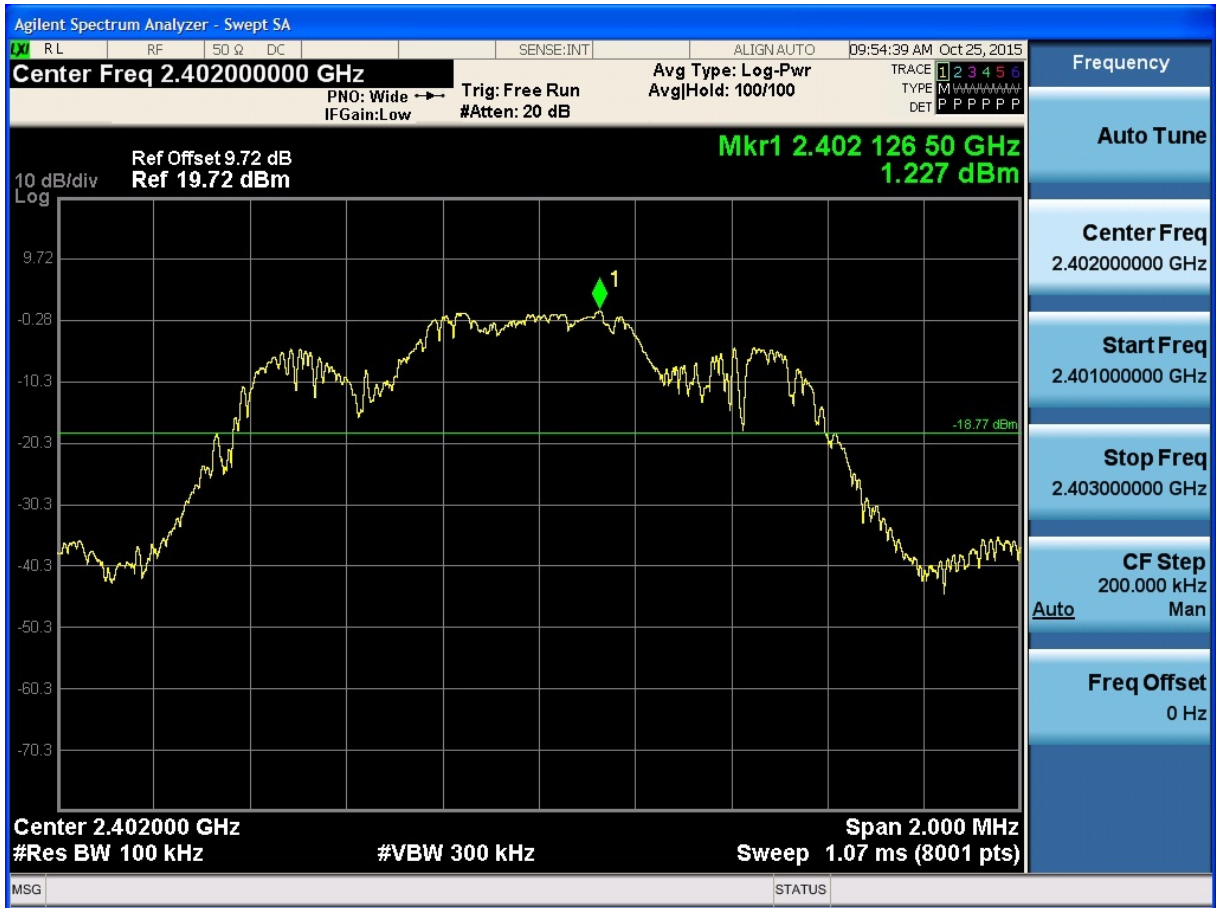
(Plot 4.9.2 A1: Channel 00: 2402MHz @ 8DPSK)
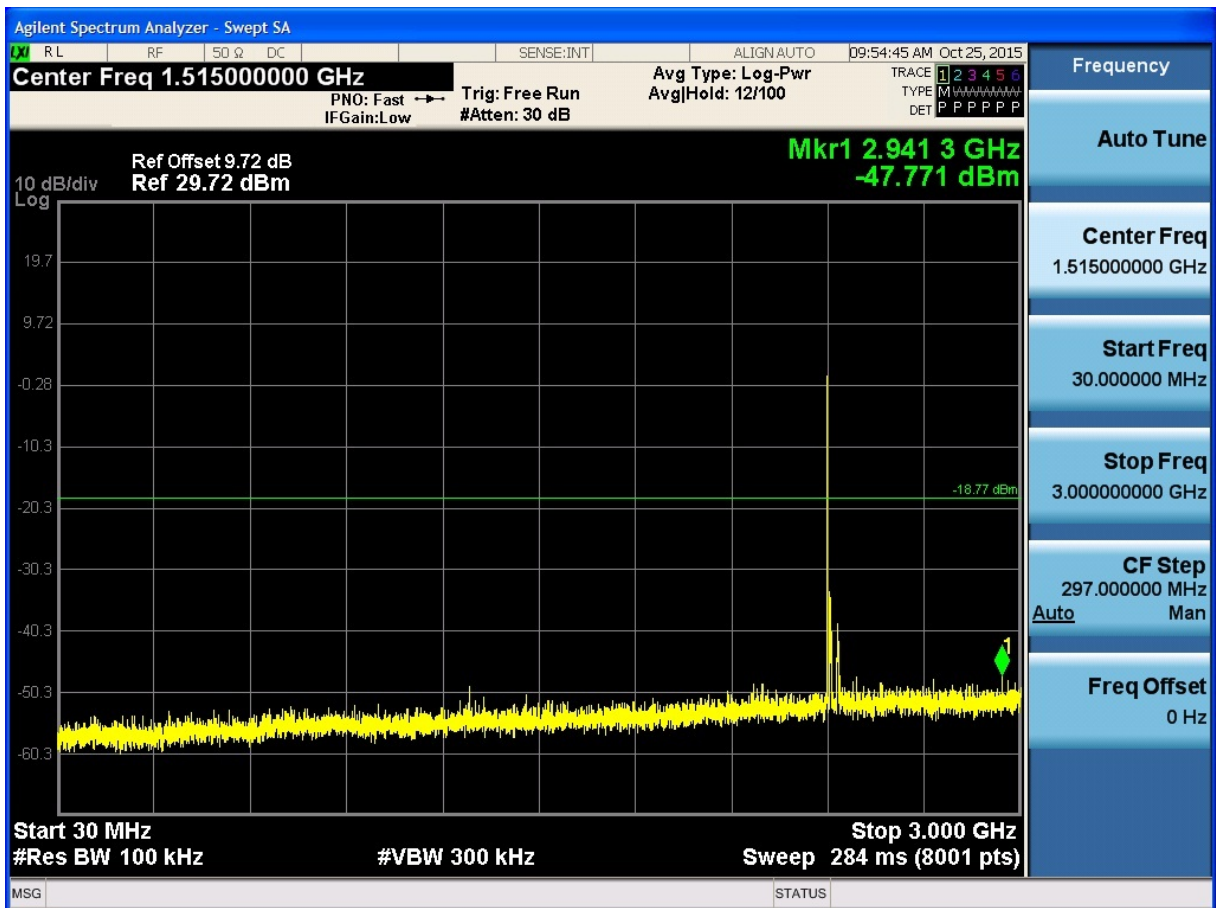
(Plot 4.9.2 A2: Channel 00: 2402MHz @ @ 8DPSK)