



Appendix for Test report

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1Appendix_A: Effective Radiated Power Output Data

Part I - Test Results

Test Band	Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
BC0	CDMA /TM1	824.7	23.96	Dipole Ant.	27.31	-2.95	0.6	23.76	38.5	Pass
		836.52	24	Dipole Ant.	27.75	-3.02	0.6	23.13	38.5	Pass
		848.31	23.84	Dipole Ant.	27.62	-2.11	0.6	23.91	38.5	Pass
	CDMA /TM3	824.7	23.92	Dipole Ant.	26.27	-2.95	0.6	23.72	38.5	Pass
		836.52	23.97	Dipole Ant.	27.64	-3.02	0.6	24.02	38.5	Pass
		848.31	23.81	Dipole Ant.	27.59	-2.11	0.6	23.88	38.5	Pass
	CDMA /EV-D O/Subt type0	824.7	23.73	Dipole Ant.	27.35	-2.95	0.6	23.8	38.5	Pass
		836.52	23.7	Dipole Ant.	26.12	-3.02	0.6	23.5	38.5	Pass
		848.31	23.52	Dipole Ant.	27.42	-2.11	0.6	23.71	38.5	Pass
	CDMA /EV-D O/Subt type2	824.7	23.59	Dipole Ant.	26.94	-2.95	0.6	23.39	38.5	Pass
		836.52	23.62	Dipole Ant.	27.04	-3.02	0.6	23.42	38.5	Pass
		848.31	23.71	Dipole Ant.	27.42	-2.11	0.6	23.71	38.5	Pass

Note: a, For getting the ERP (Efficient Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{ERP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBd]}$$

b, SGP=Signal Generator Level

Test Band	Test Mode	Freq. [MHz]	Meas. Level [dBm]	Substitution Antenna Type	SGP [dBm]	Substitution Gain [dBi]	Cable Loss [dB]	Substitution Level (ERP) [dBm]	FCC limit [dBm]	Result
BC1	CDMA /TM1	1851.25	25.65	Horn Ant.	21.95	4.5	1	25.45	33	Pass
		1880	25.72	Horn Ant.	22.02	4.5	1	25.52	33	Pass
		1908.75	25.65	Horn Ant.	21.99	4.8	1	25.79	33	Pass

	CDMA /TM3	1851.25	25.67	Horn Ant.	22.26	4.5	1	25.76	33	Pass
		1880	25.7	Horn Ant.	22.34	4.5	1	25.84	33	Pass
		1908.75	25.64	Horn Ant.	21.97	4.8	1	25.77	33	Pass
	CDMA /EV-D O/Subt ype0	1851.25	25.8	Horn Ant.	22.1	4.5	1	25.6	33	Pass
		1880	25.98	Horn Ant.	22.67	4.5	1	25.17	33	Pass
		1908.75	25.78	Horn Ant.	22.02	4.8	1	25.82	33	Pass
	CDMA /EV-D O/Subt ype2	1851.25	26	Horn Ant.	22.3	4.5	1	25.8	33	Pass
		1880	25.78	Horn Ant.	22.33	4.5	1	25.83	33	Pass
		1908.75	25.72	Horn Ant.	21.72	4.8	1	25.52	33	Pass

Note: a, For getting the EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

$$\text{EIRP [dBm]} = \text{SGP [dBm]} - \text{Cable Loss [dB]} + \text{Gain [dBi]}$$

b, SGP=Signal Generator Level



Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
BC1	CDMA/EV-DO/ Subtype0	LCH	8.4	13	PASS
		MCH	8.39	13	PASS
		HCH	8.4	13	PASS

2Appendix_B: Bandwidth

Part I - Test Results

Test Band	Test Mode	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BC0	CDMA/1X/TM1	LCH	1.29	1.46	Pass
		MCH	1.30	1.45	Pass
		HCH	1.29	1.45	Pass
	CDMA/1X/TM3	LCH	1.28	1.45	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.44	Pass
BC1	CDMA/1X/TM1	LCH	1.29	1.45	Pass
		MCH	1.30	1.46	Pass
		HCH	1.29	1.46	Pass
	CDMA/1X/TM3	LCH	1.28	1.45	Pass
		MCH	1.28	1.45	Pass
		HCH	1.28	1.45	Pass

Test Band	Test Mode	Test Modulation(R-Data)	Test Channel	Occupied Bandwidth [MHz]	Emission Bandwidth [MHz]	Verdict
BC0	CDMA/EV-DO/Subtype0	HPSK	LCH	1.28	1.45	Pass
			MCH	1.28	1.45	Pass
			HCH	1.28	1.45	Pass
	CDMA/EV-DO/Subtype2	BPSK(256 bits)	LCH	1.28	1.46	Pass
			MCH	1.28	1.45	Pass
			HCH	1.28	1.45	Pass
		QPSK(4096 bits)	LCH	1.28	1.45	Pass
			MCH	1.28	1.45	Pass
			HCH	1.28	1.45	Pass
		8-PSK(12288 bits)	LCH	1.28	1.45	Pass
			MCH	1.28	1.46	Pass
			HCH	1.28	1.45	Pass
BC1	CDMA/EV-DO/Subtype0	HPSK	LCH	1.28	1.45	Pass
			MCH	1.28	1.44	Pass
			HCH	1.28	1.45	Pass
	CDMA/EV-DO/Subtype2	BPSK(256 bits)	LCH	1.28	1.46	Pass
			MCH	1.28	1.46	Pass
			HCH	1.28	1.46	Pass
		QPSK(4096 bits)	LCH	1.28	1.45	Pass
			MCH	1.28	1.45	Pass
			HCH	1.29	1.45	Pass
		8-PSK(12288 bits)	LCH	1.28	1.45	Pass
			MCH	1.28	1.45	Pass
			HCH	1.29	1.46	Pass



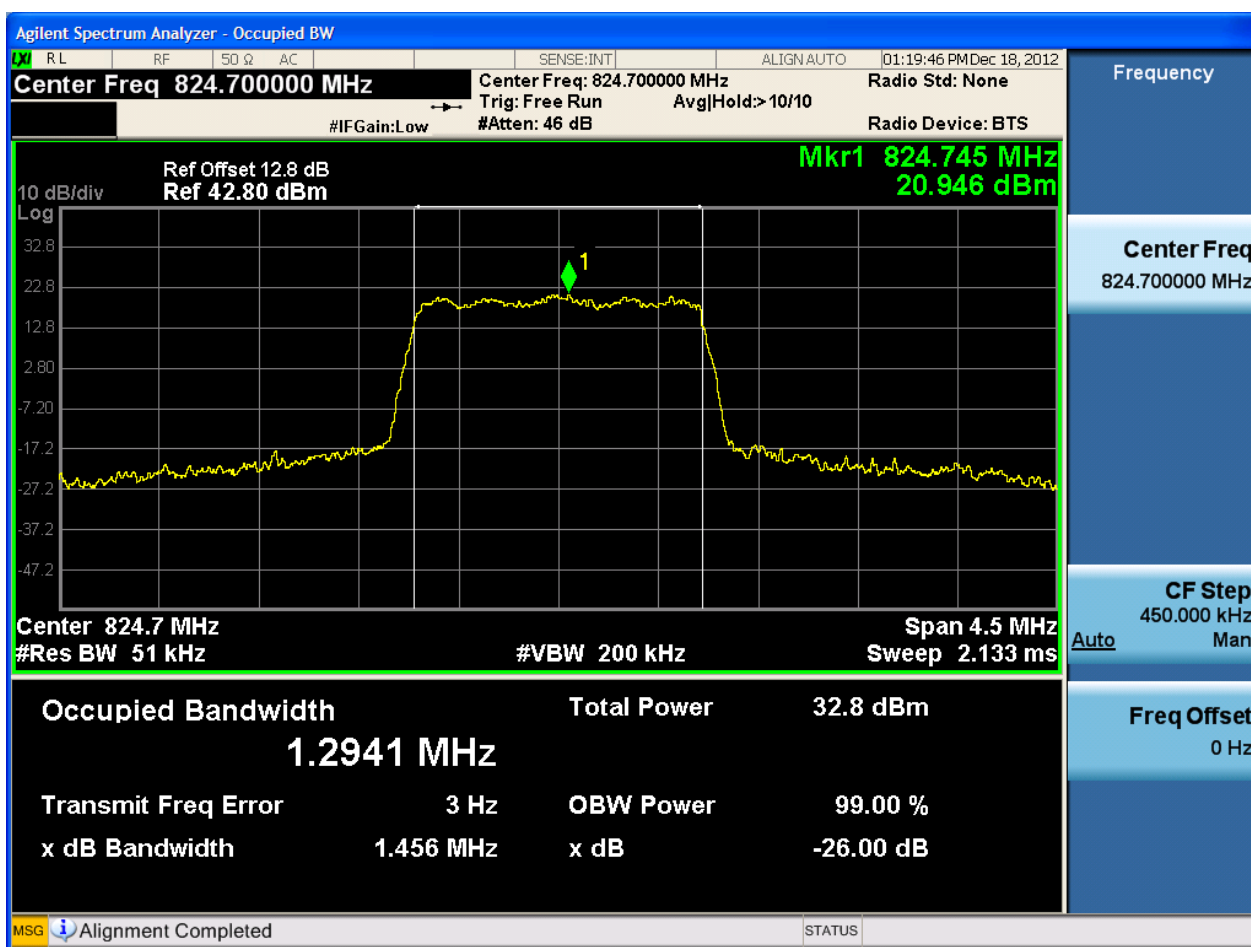
Part II - Test Plots

2.1 For CDMA/1X

2.1.1 Test Band = BC0

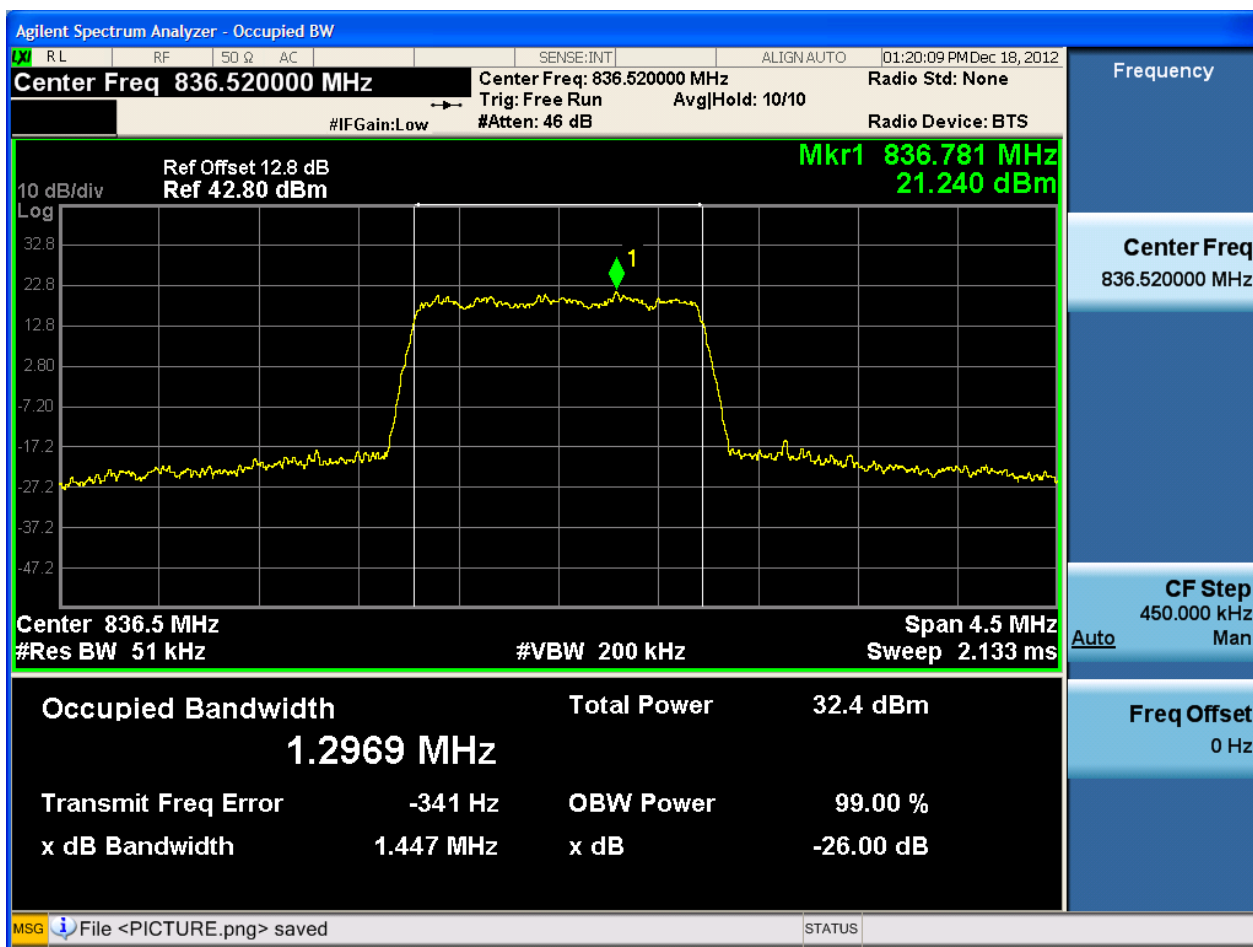
2.1.1.1 Test Mode = CDMA/1X/TM1

2.1.1.1.1 Test Channel = LCH



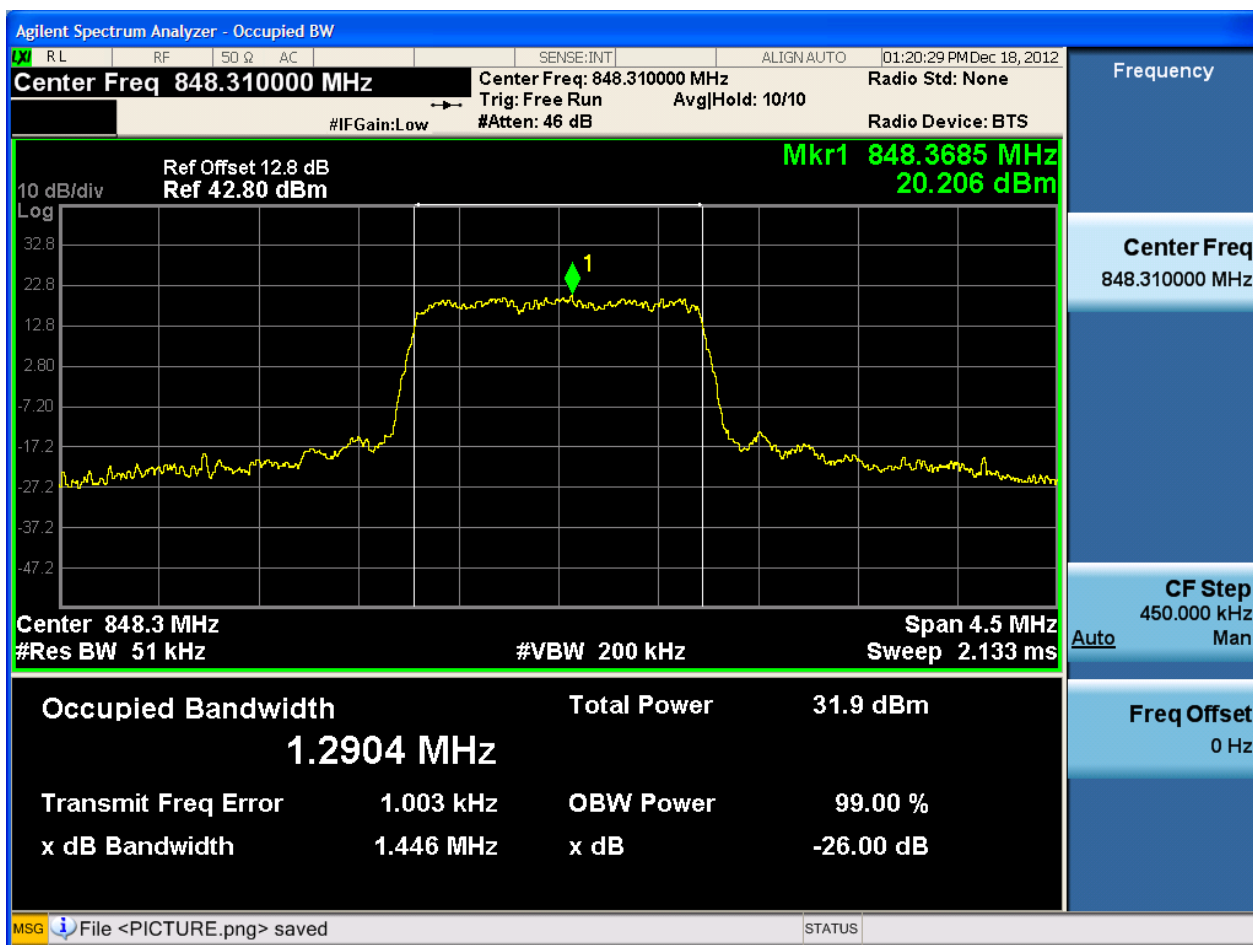


2.1.1.1.2 Test Channel = MCH



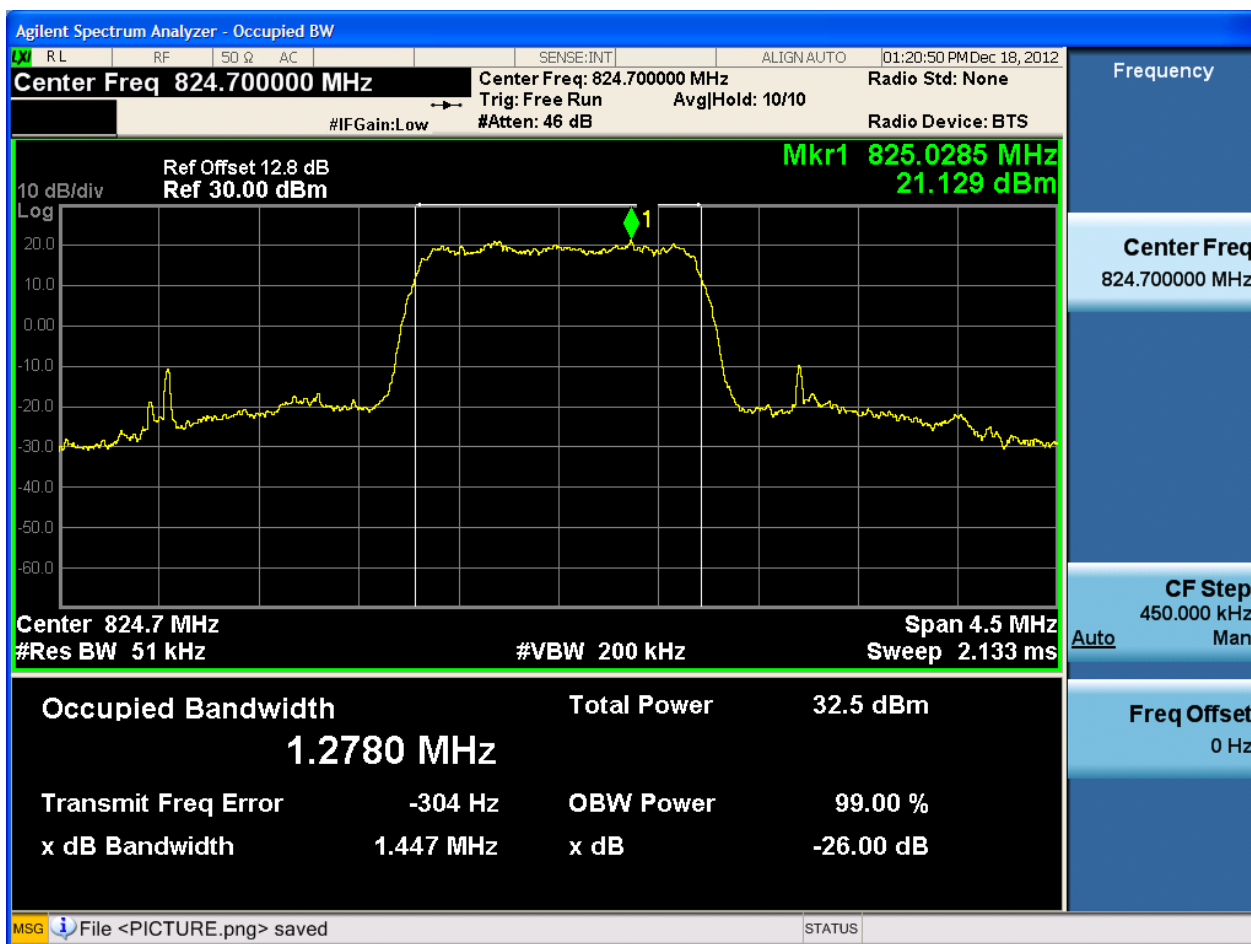


2.1.1.1.3 Test Channel = HCH



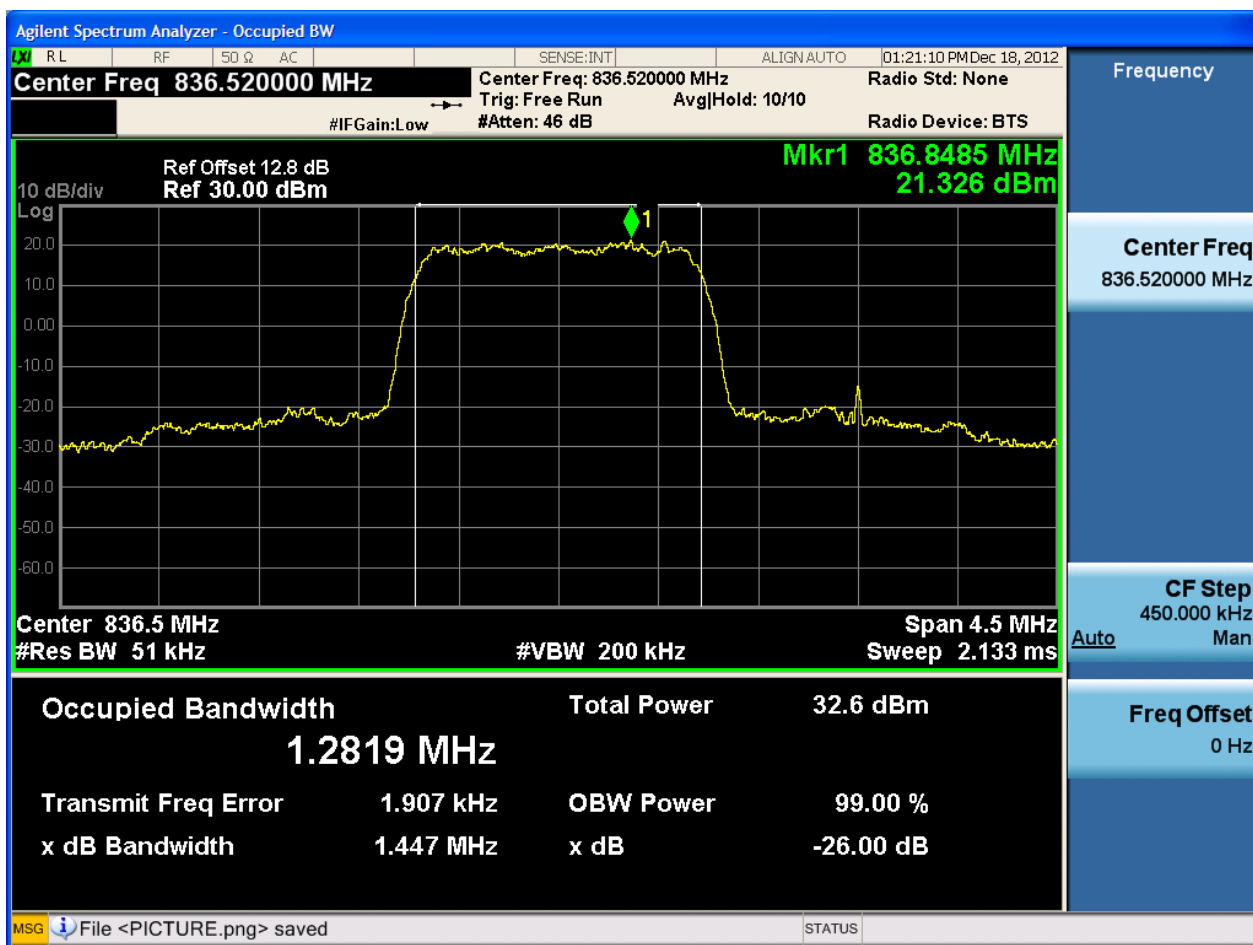
2.1.1.2 Test Mode = CDMA/1X/TM3

2.1.1.2.1 Test Channel = LCH



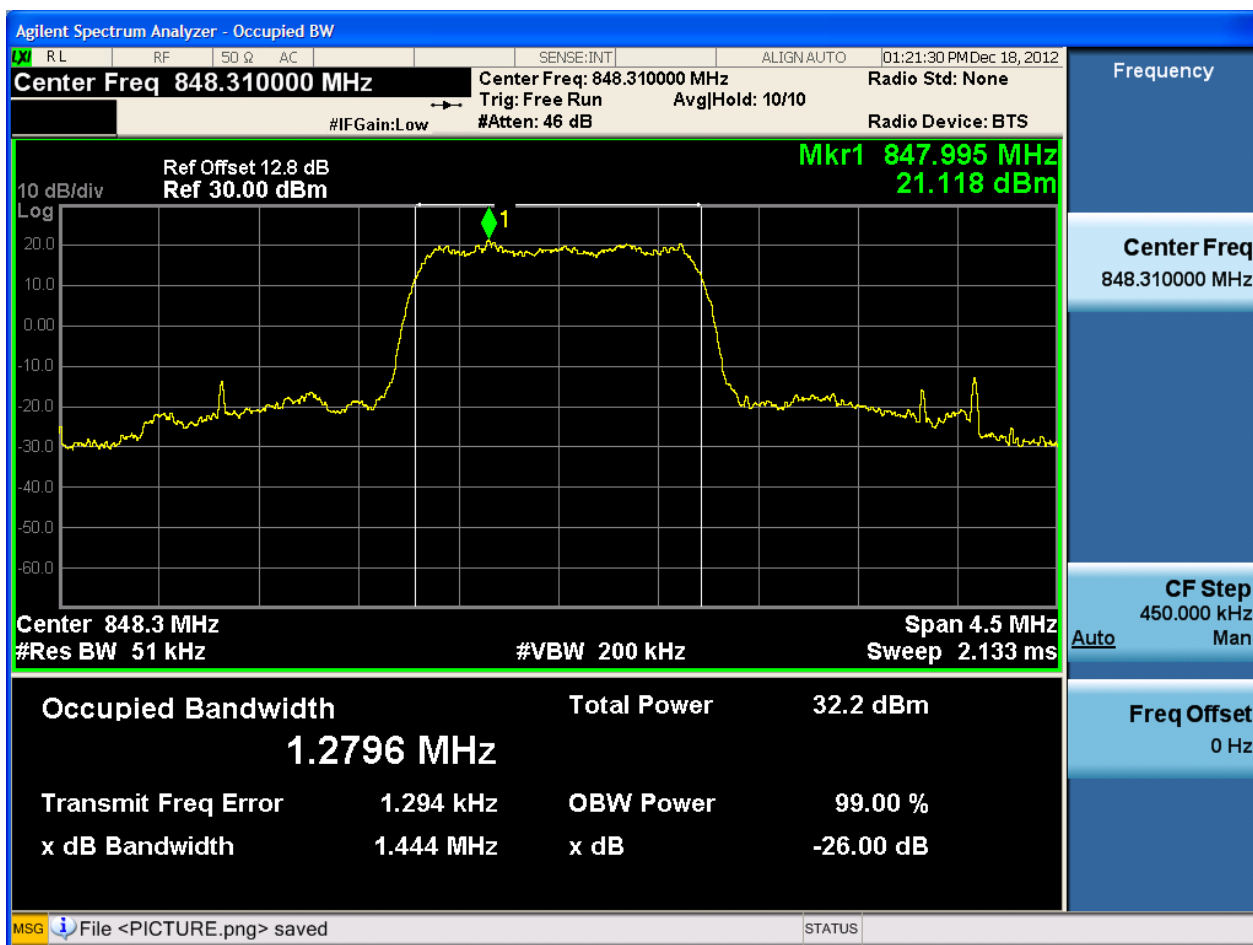


2.1.1.2.2 Test Channel = MCH





2.1.1.2.3 Test Channel = HCH

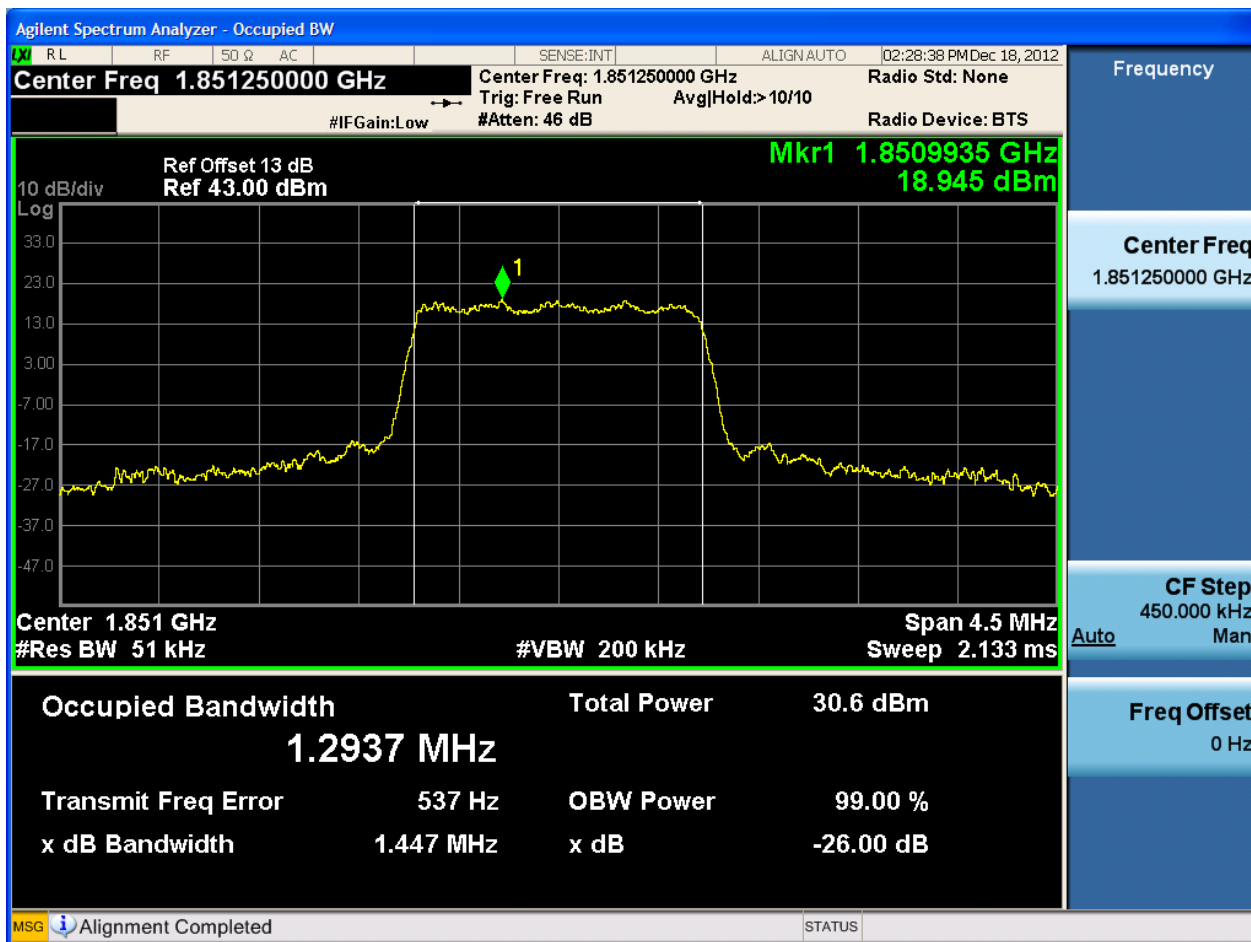




2.1.2 Test Band = BC1

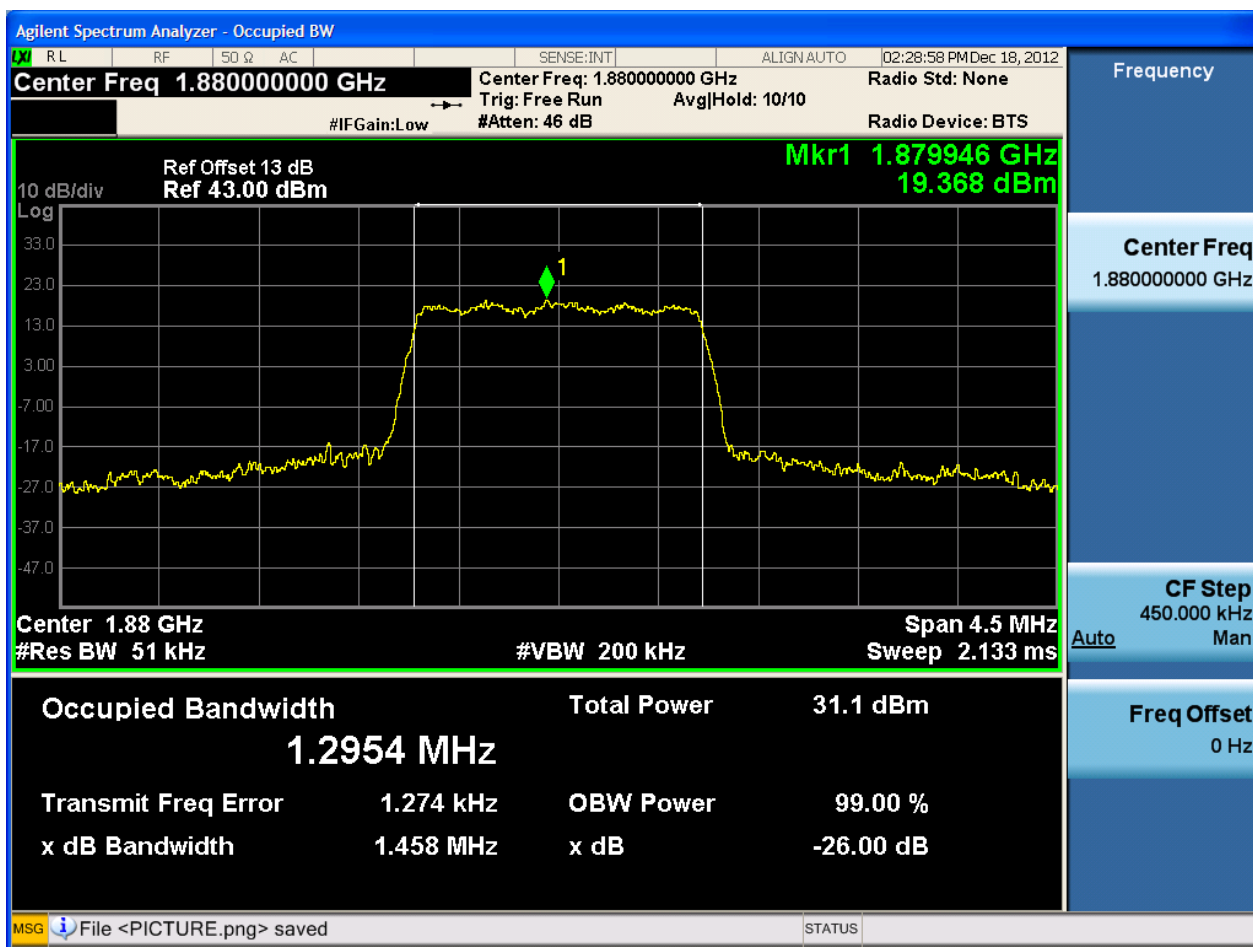
2.1.2.1 Test Mode = CDMA/1X/TM1

2.1.2.1.1 Test Channel = LCH



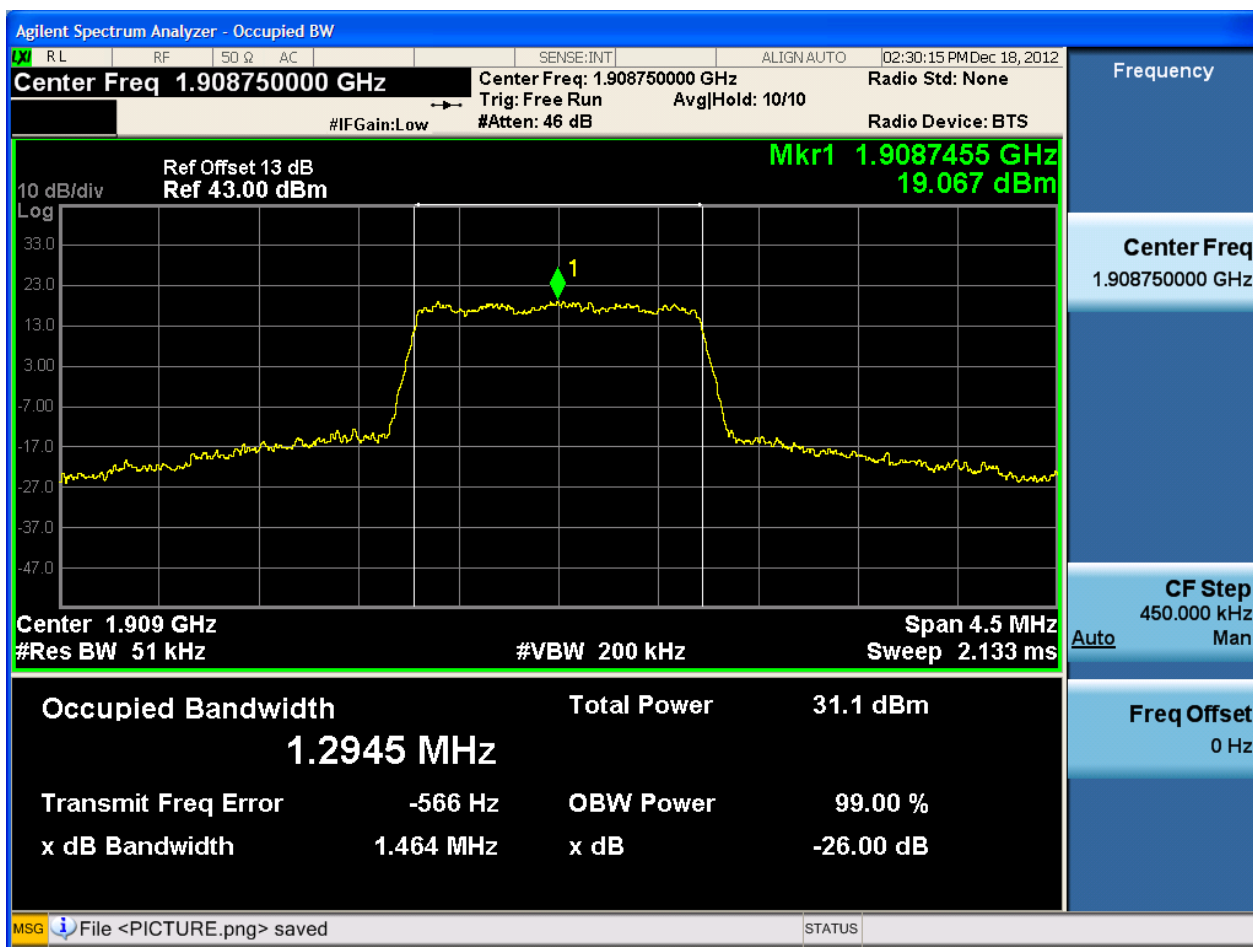


2.1.2.1.2 Test Channel = MCH





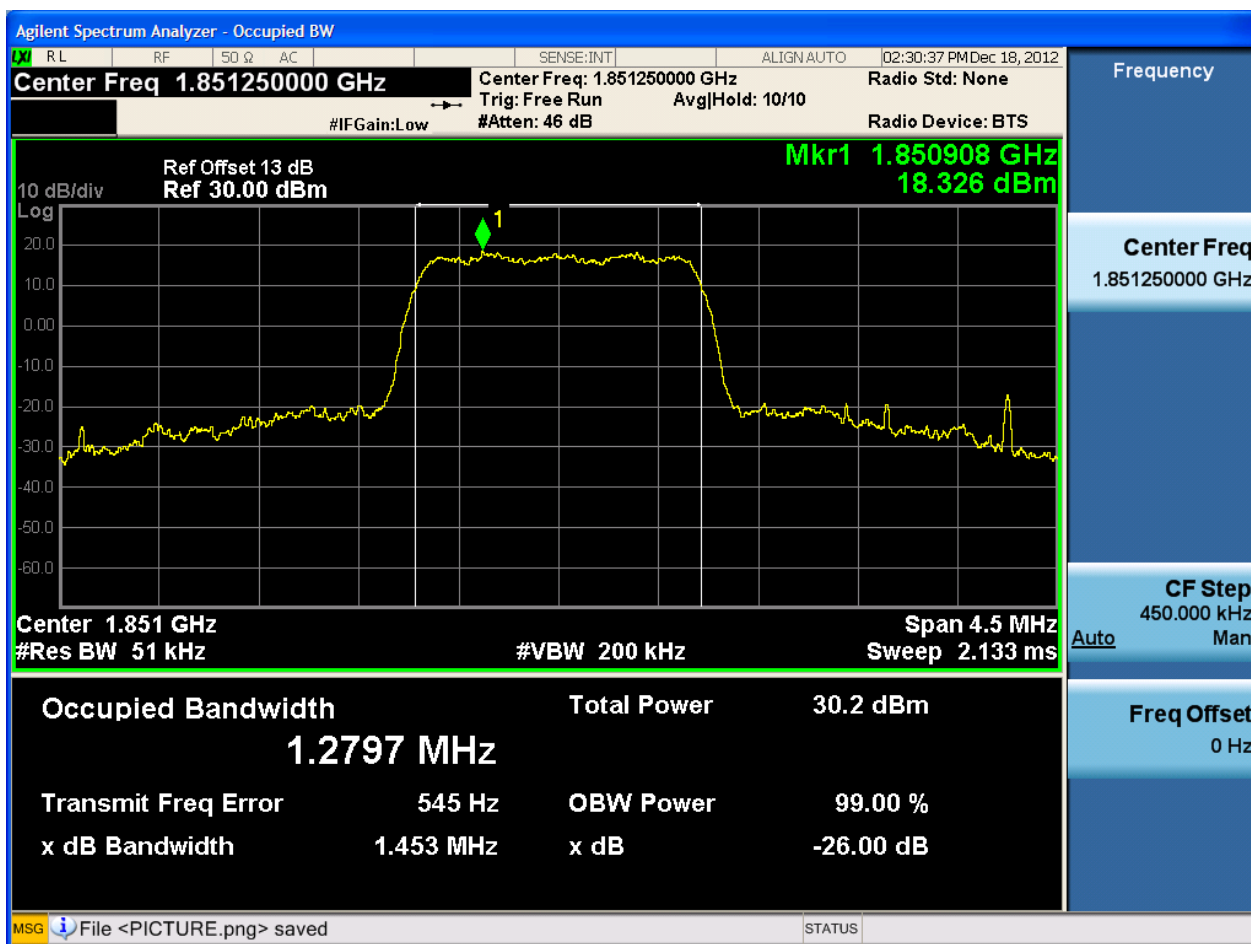
2.1.2.1.3 Test Channel = HCH





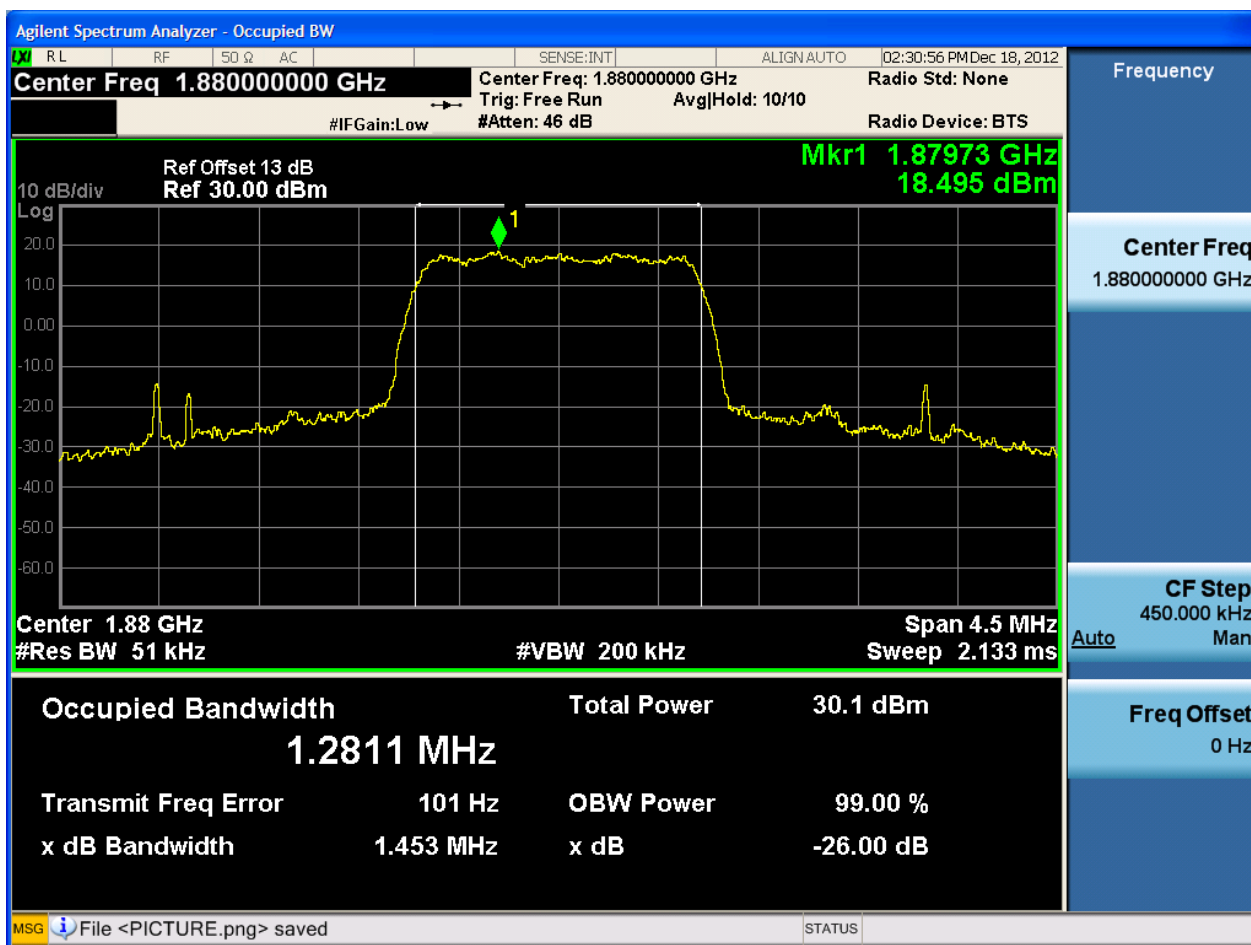
2.1.2.2 Test Mode = CDMA/1X/TM3

2.1.2.2.1 Test Channel = LCH





2.1.2.2.2 Test Channel = MCH





2.1.2.2.3 Test Channel = HCH



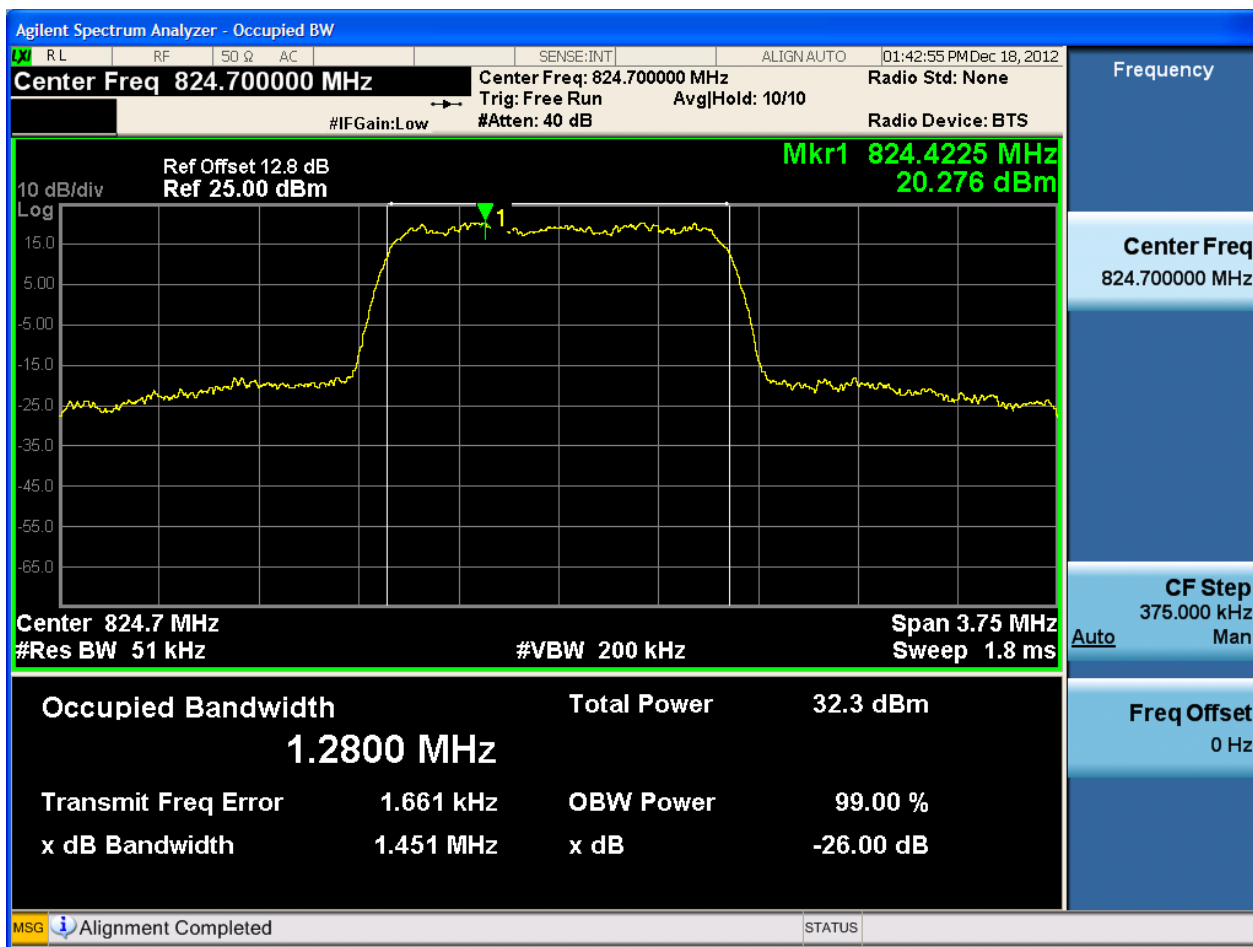
2.2 For CDMA/EV-DO

2.2.1 Test Band = BC0

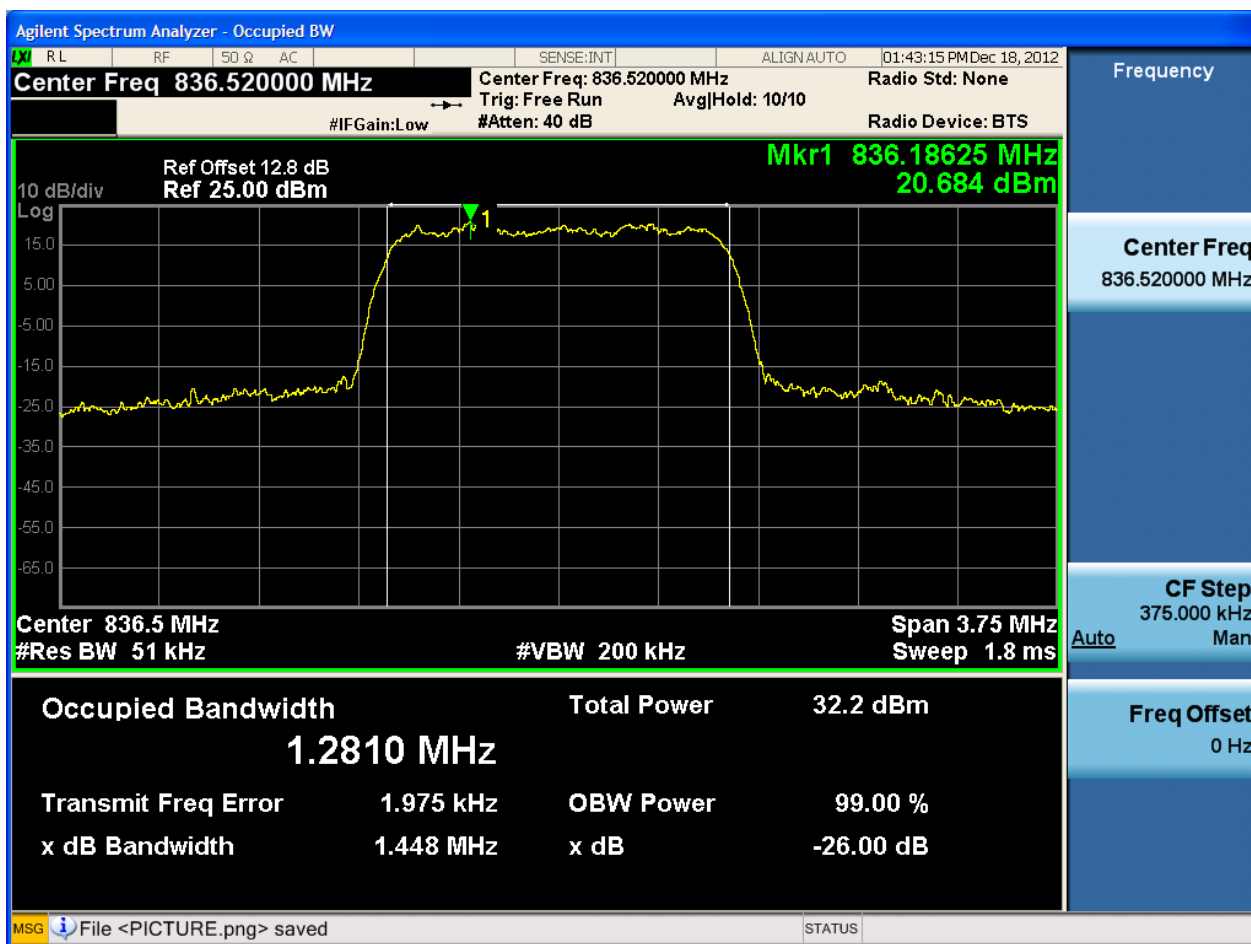
2.2.1.1 Test Mode = CDMA/EV-DO/Subtype0

2.2.1.1.1 Test Modulation = HPSK

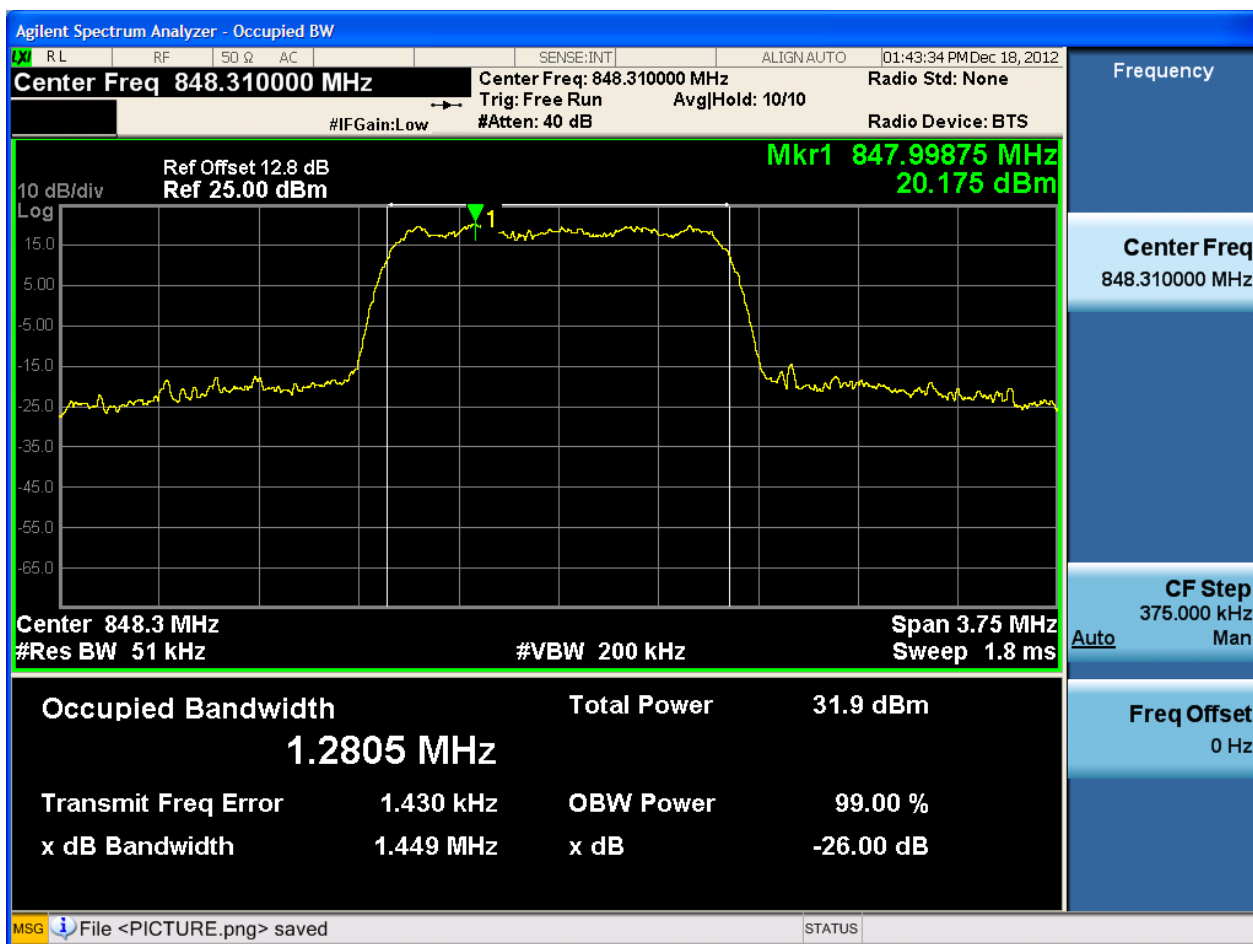
2.2.1.1.1.1 Test Channel = LCH



2.2.1.1.1.2 Test Channel = MCH



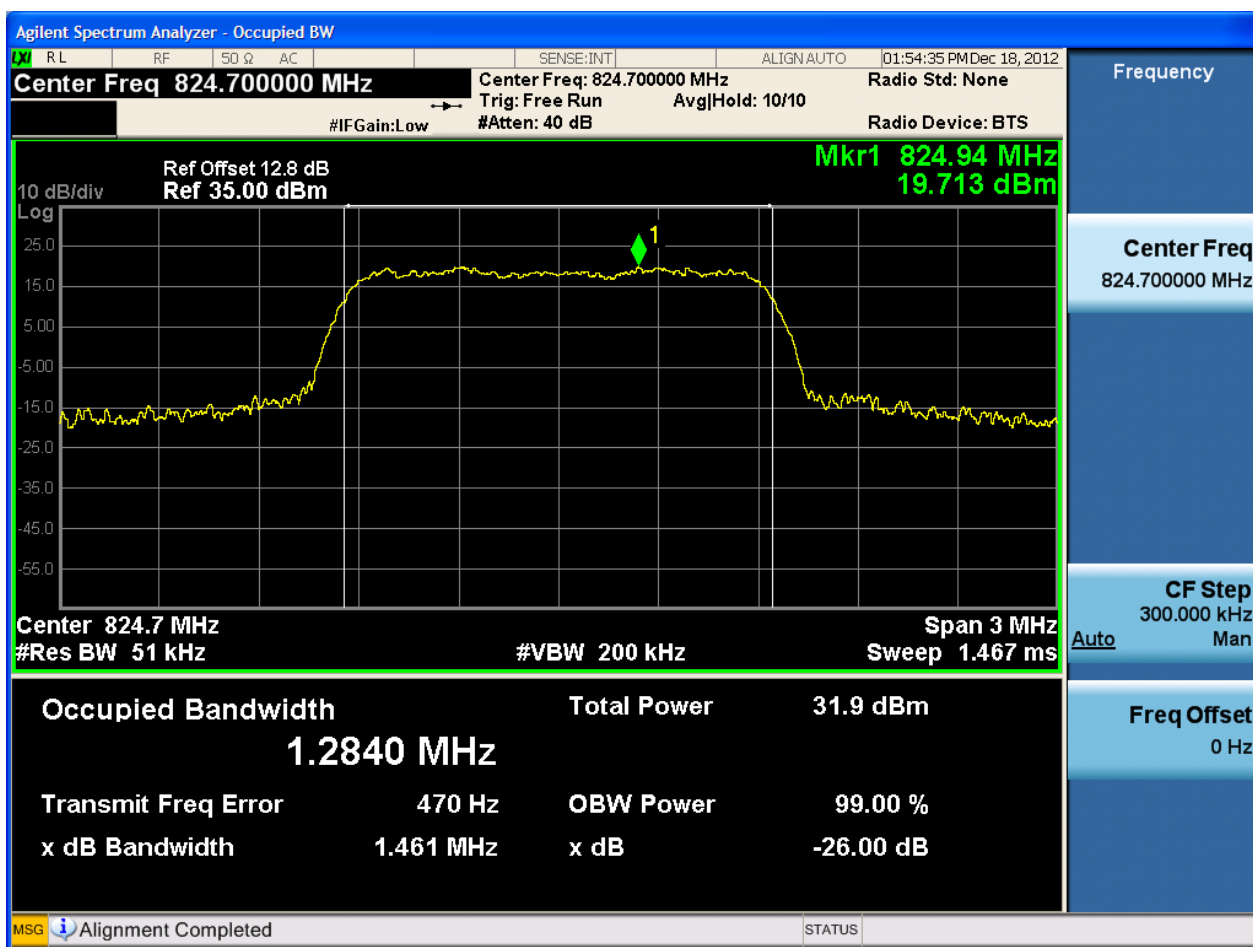
2.2.1.1.1.3 Test Channel = HCH



2.2.1.2 Test Mode = CDMA/EV-DO/Subtype2

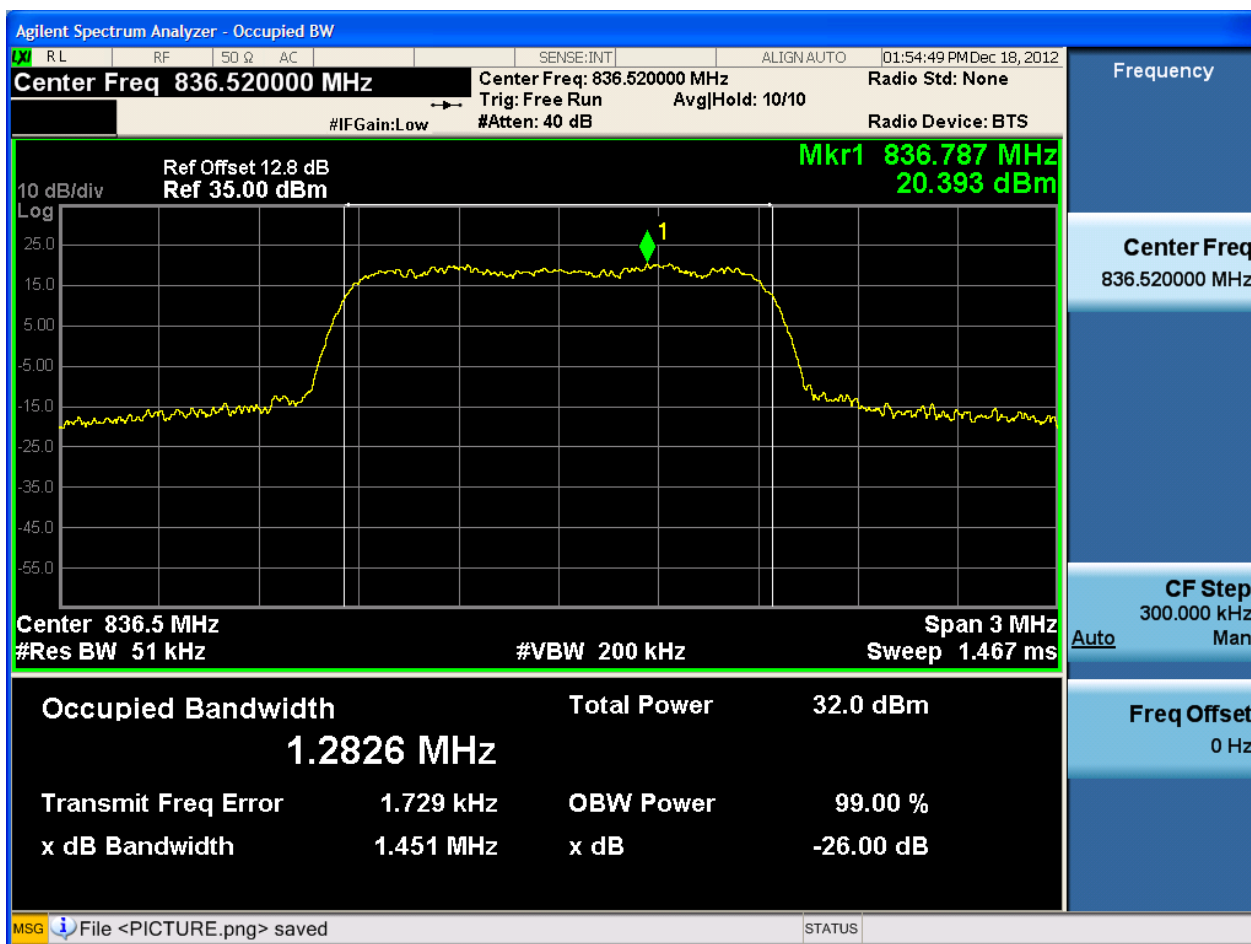
2.2.1.2.1 Test Modulation = BPSK (256 bits)

2.2.1.2.1.1 Test Channel = LCH

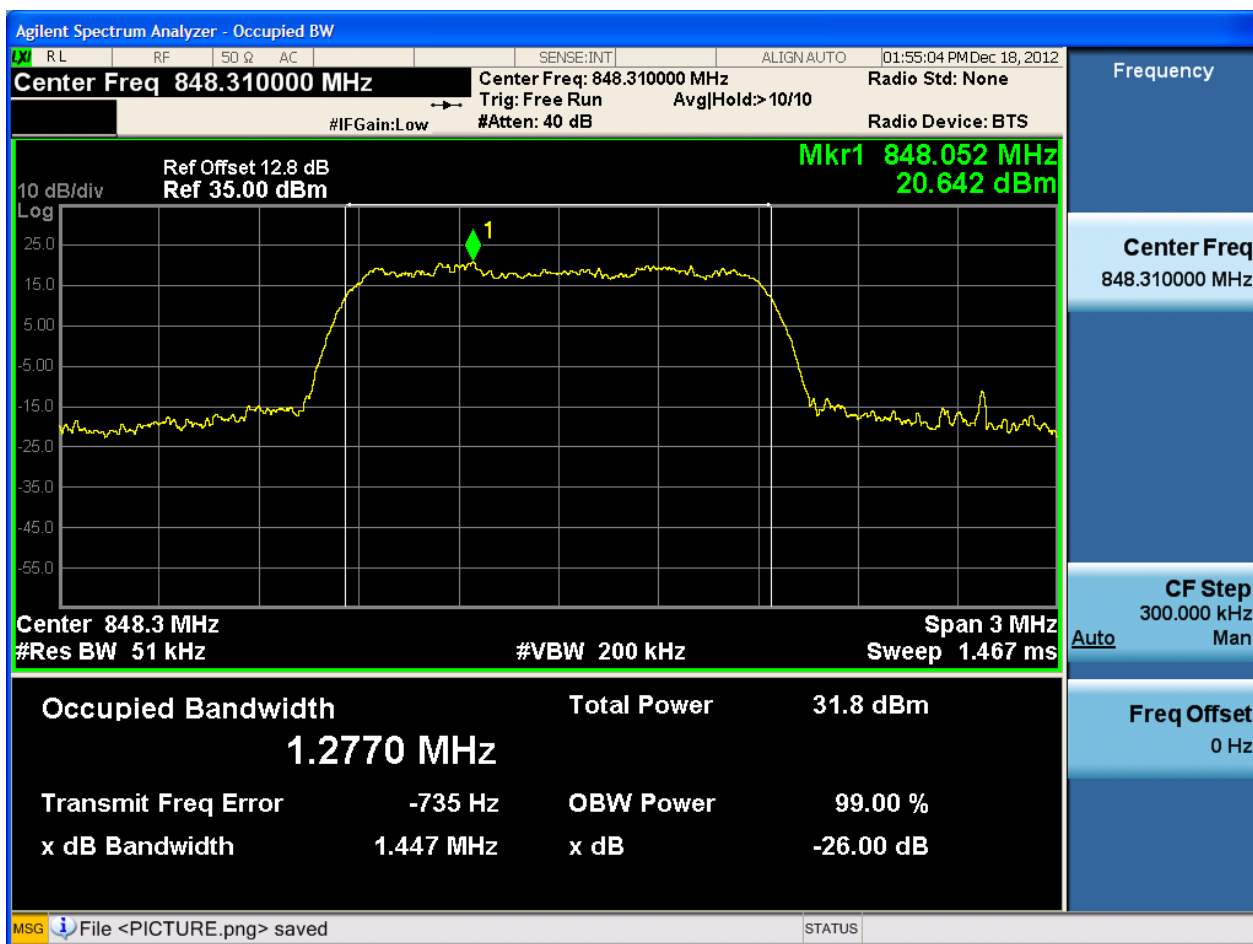




2.2.1.2.1.2 Test Channel = MCH

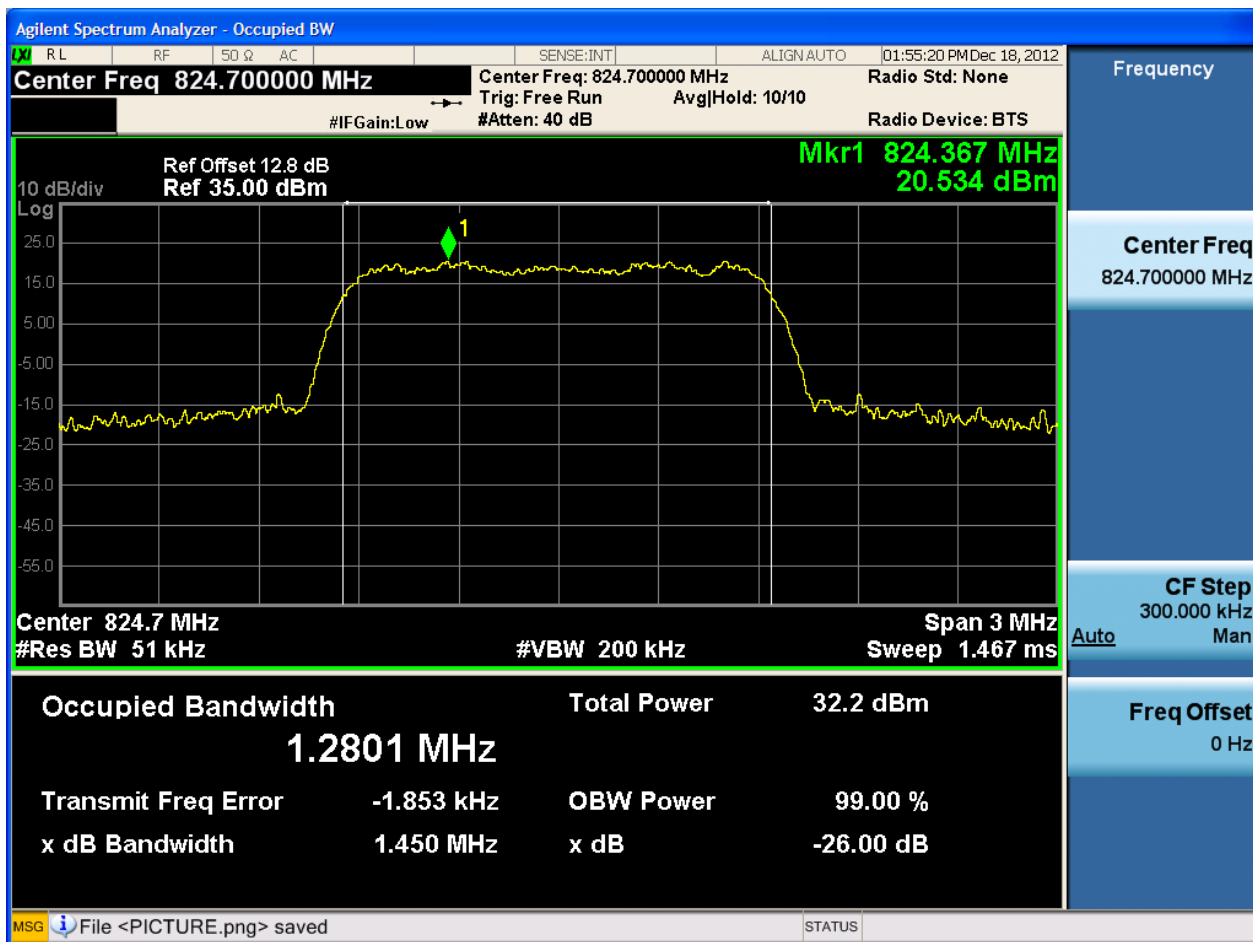


2.2.1.2.1.3 Test Channel = HCH

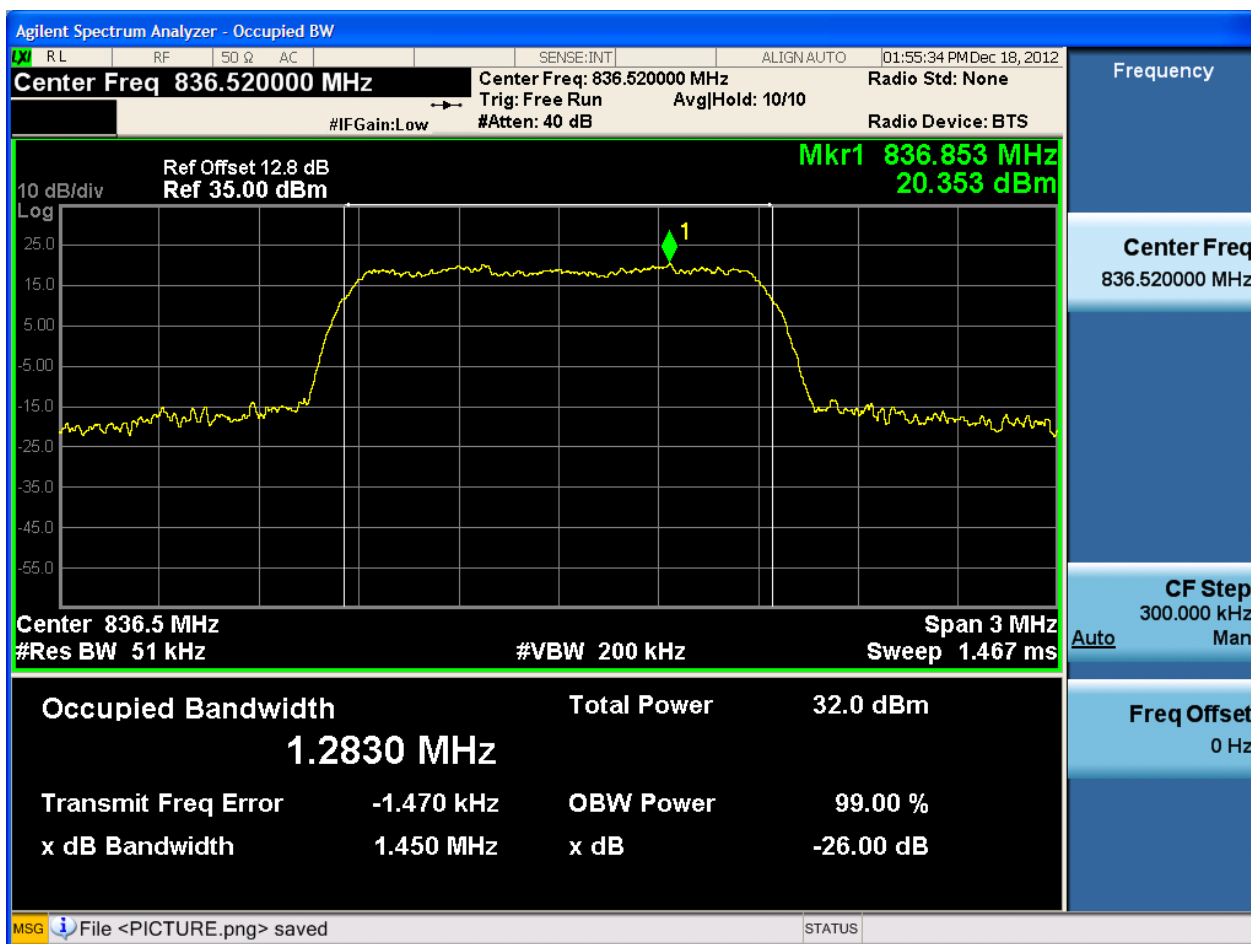


2.2.1.2.2 Test Modulation = QPSK (4096 bits)

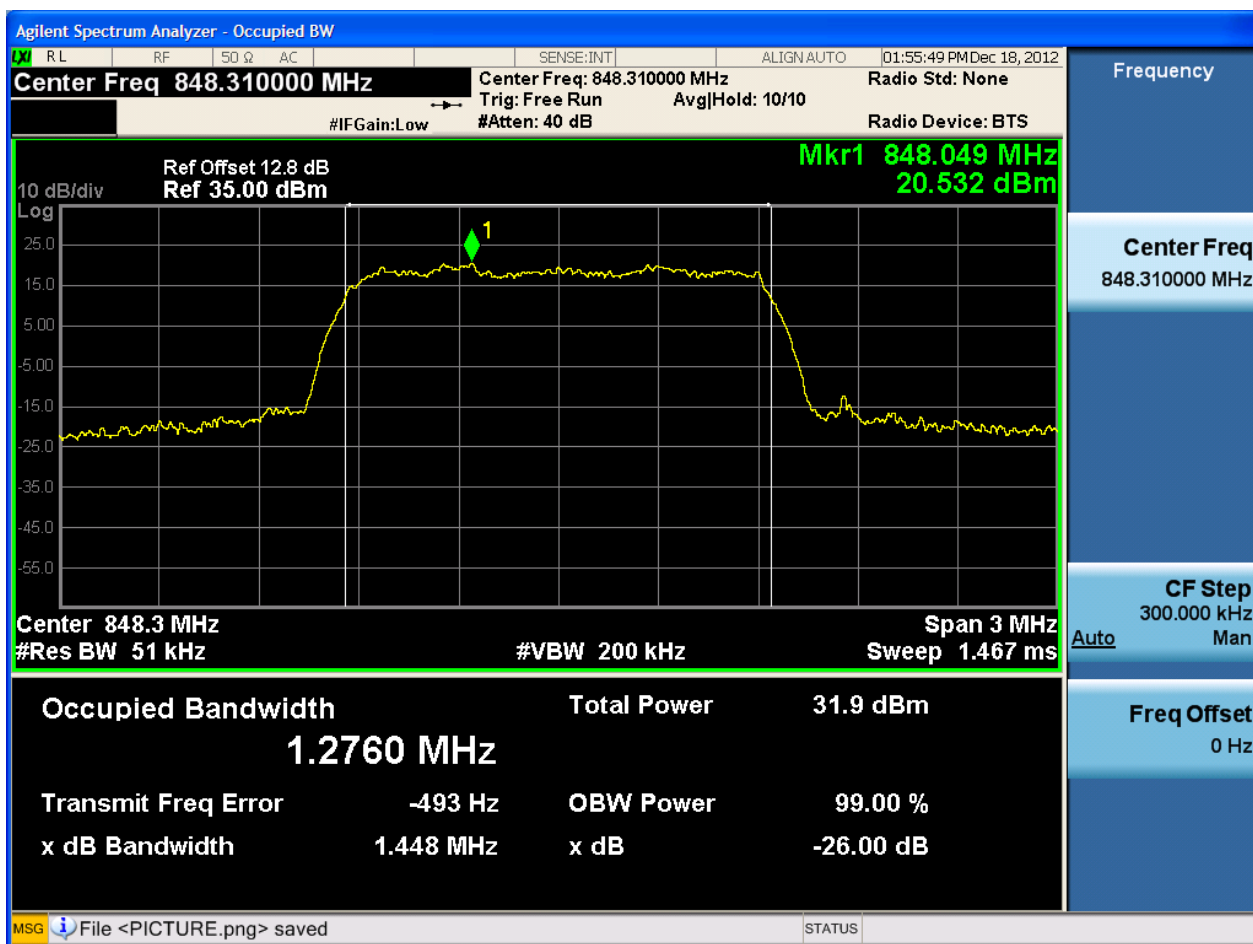
2.2.1.2.2.1 Test Channel = LCH



2.2.1.2.2.2 Test Channel = MCH

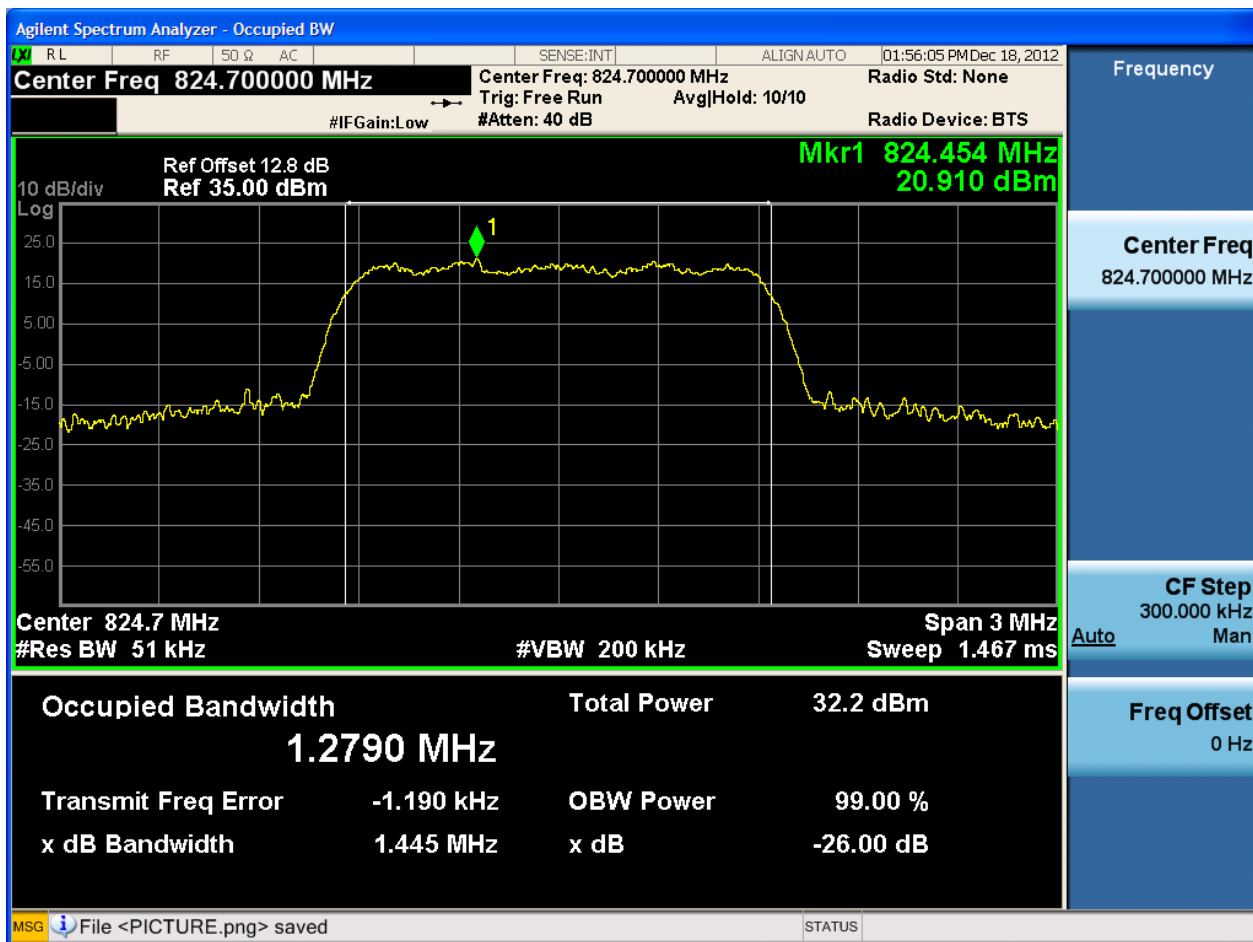


2.2.1.2.2.3 Test Channel = HCH

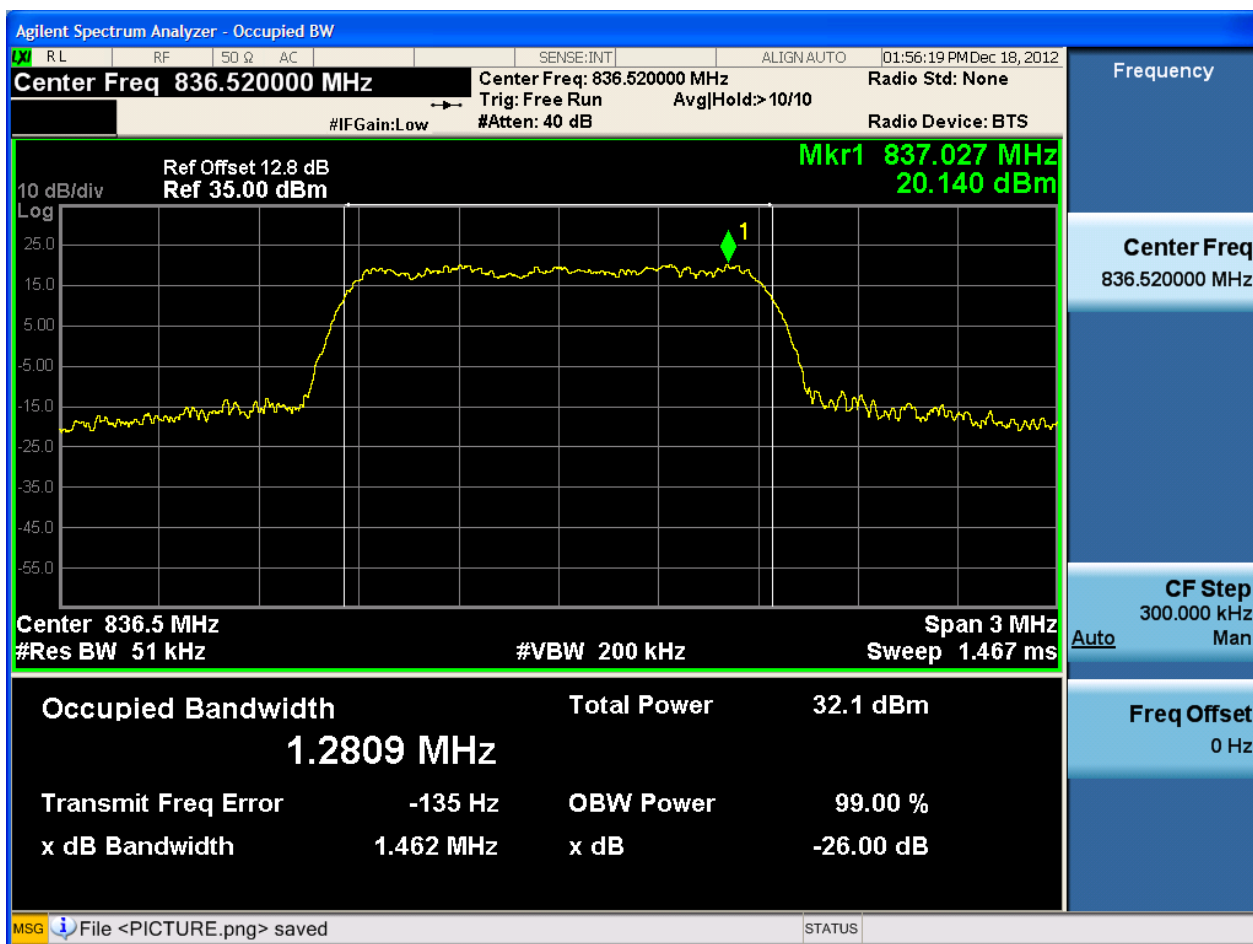


2.2.1.2.3 Test Modulation = 8-PSK (12288 bits)

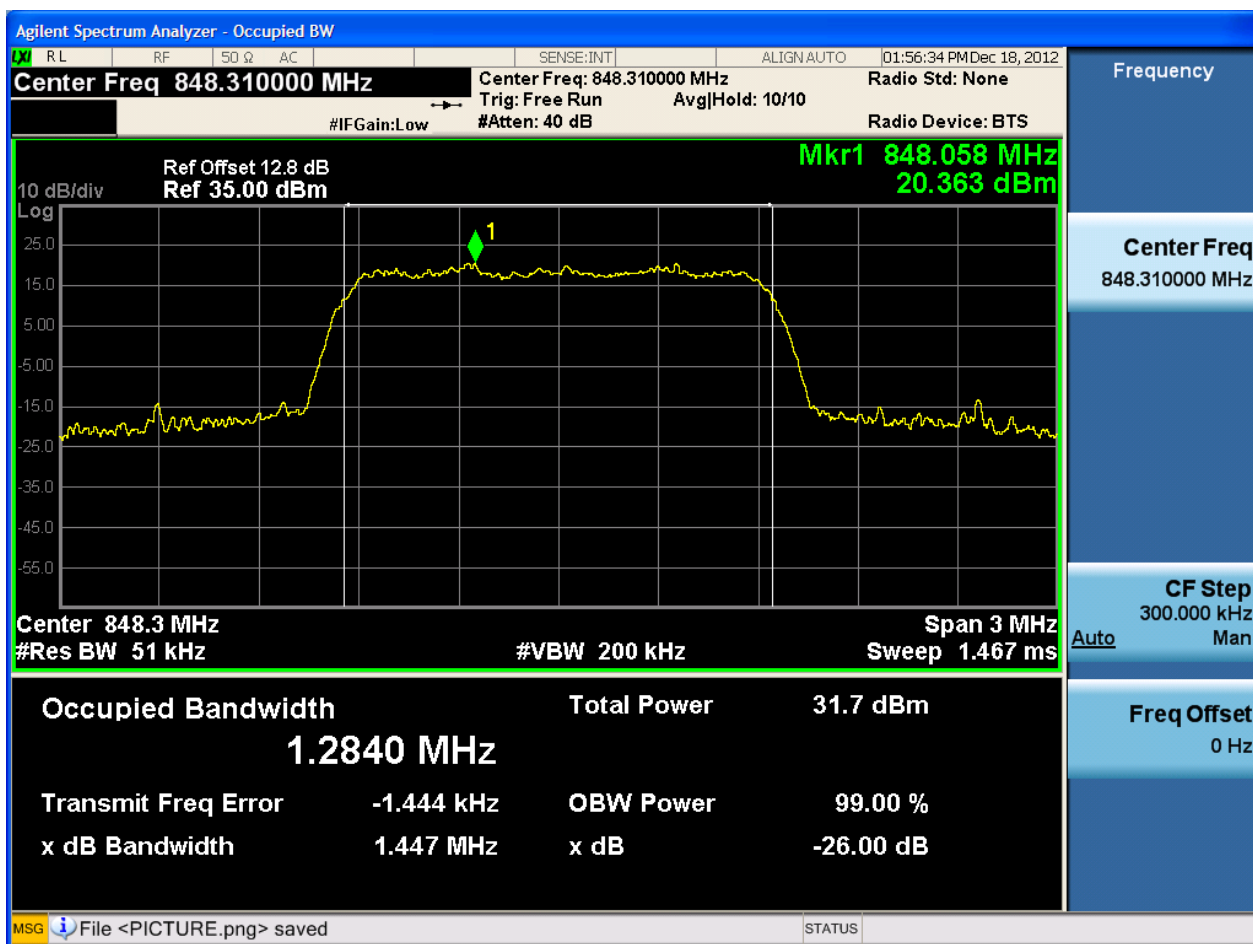
2.2.1.2.2.1 Test Channel = LCH



2.2.1.2.2.2 Test Channel = MCH



2.2.1.2.3.3 Test Channel = HCH



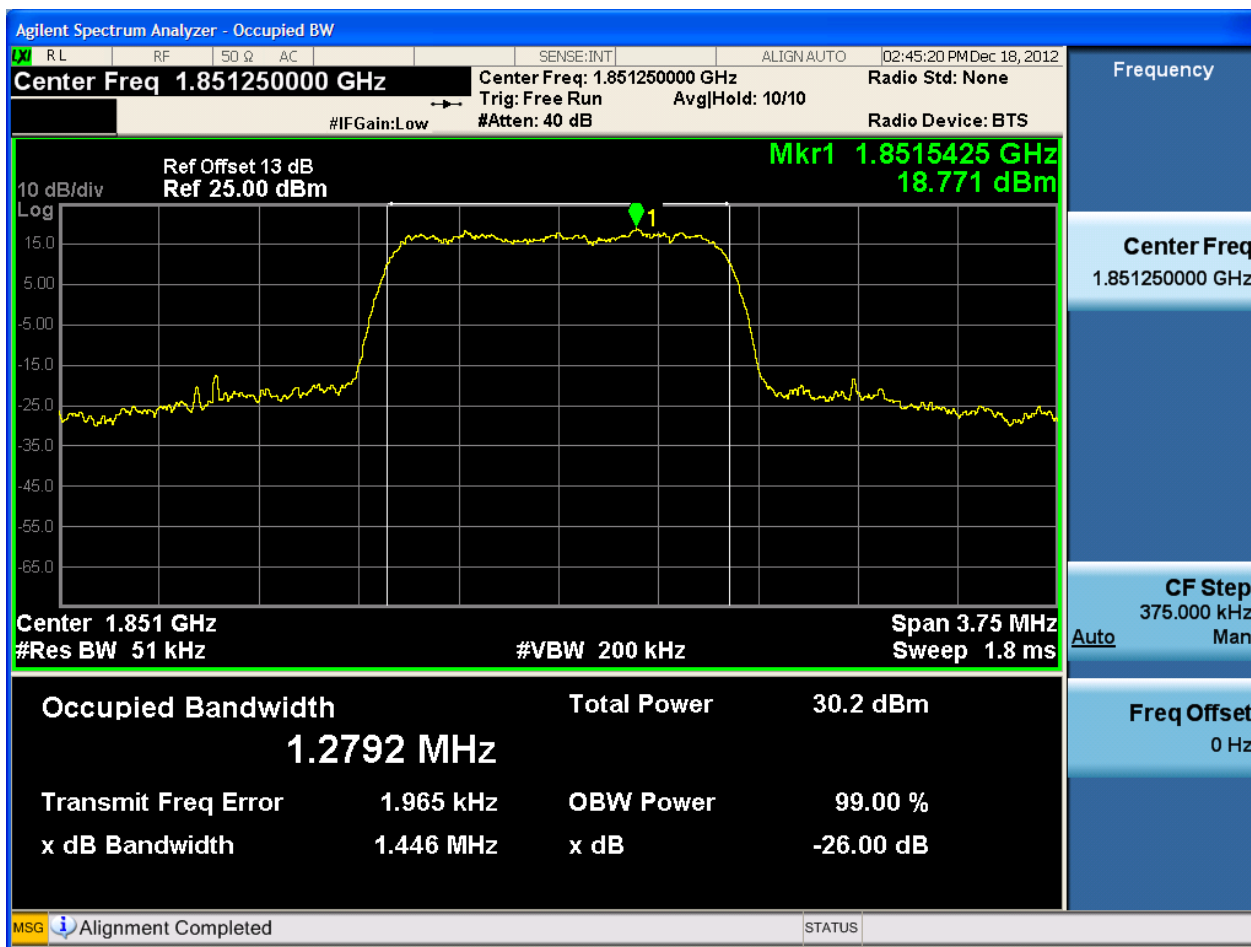


2.2.2 Test Band = BC1

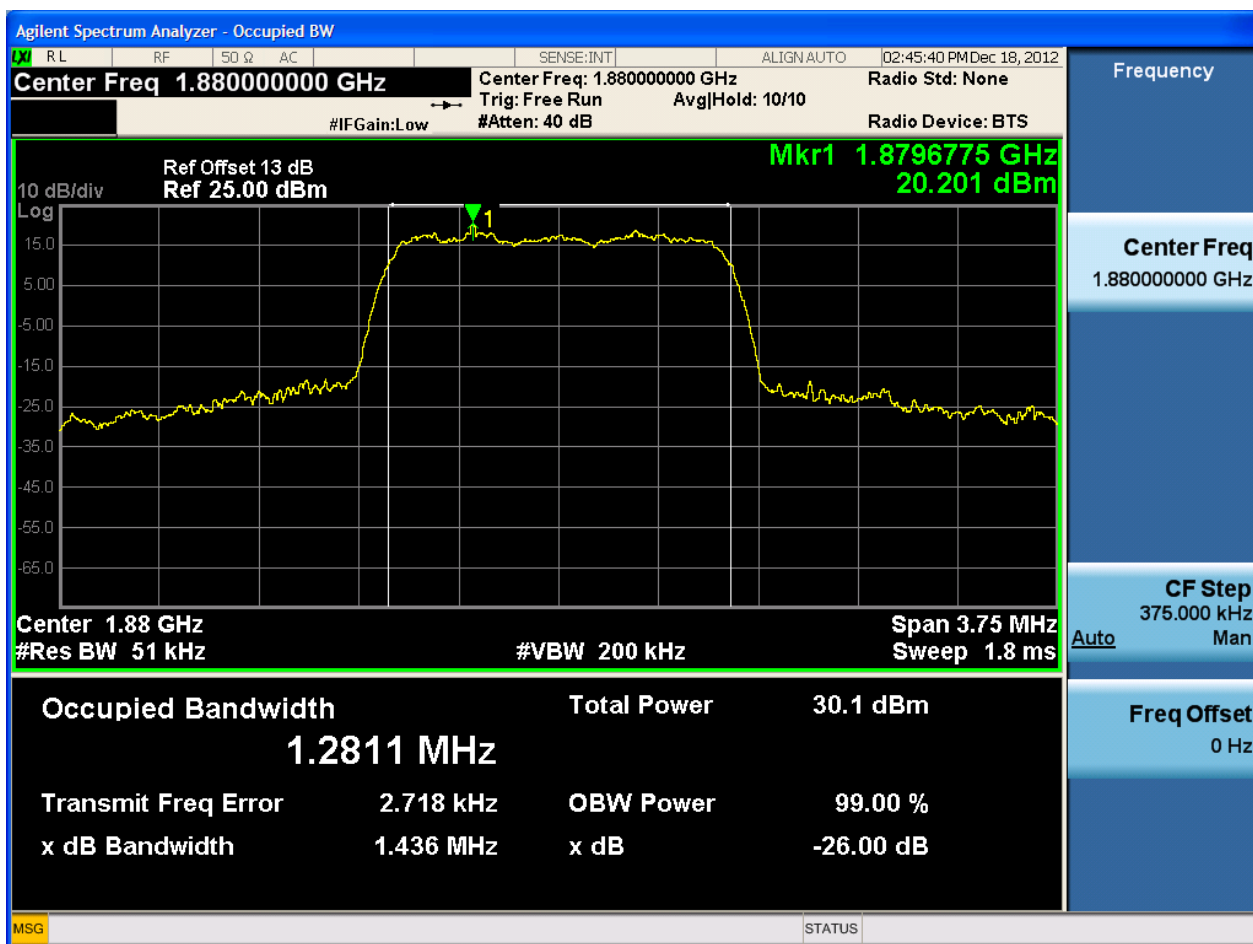
2.2.2.1 Test Mode = CDMA/EV-DO/Subtype0

2.2.2.1.1 Test Modulation = HPSK

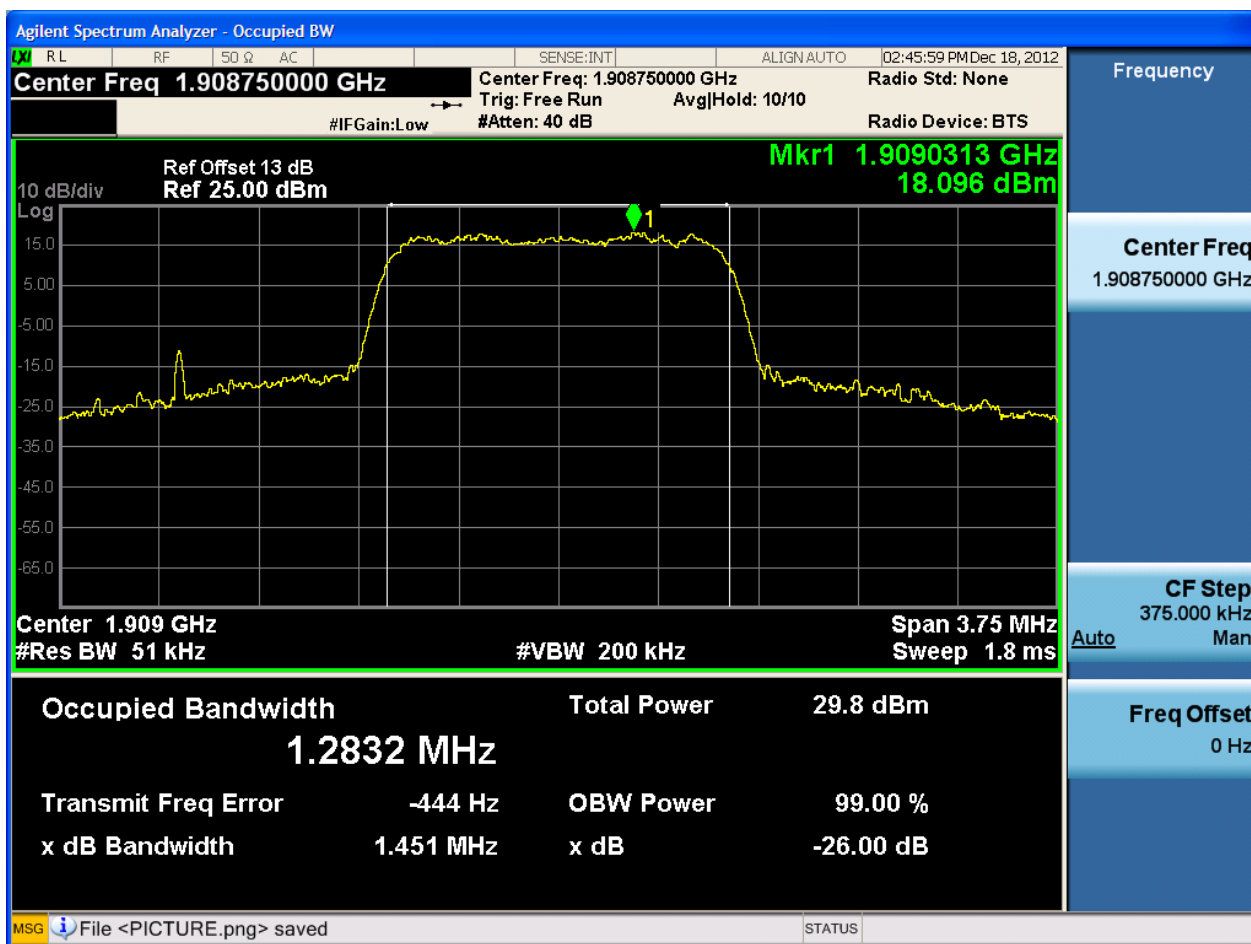
2.2.2.1.1.1 Test Channel = LCH



2.2.2.1.1.2 Test Channel = MCH



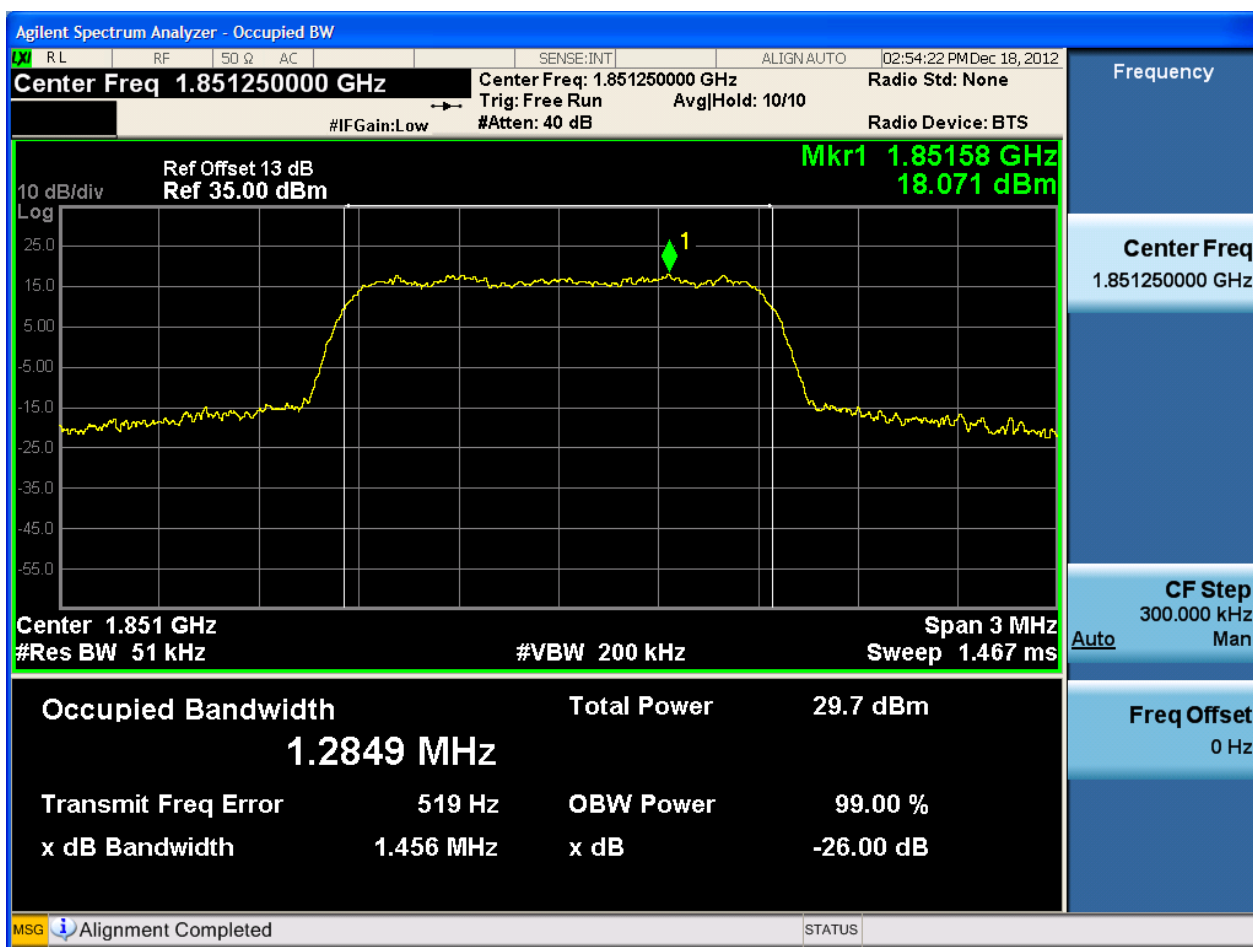
2.2.2.1.1.3 Test Channel = HCH



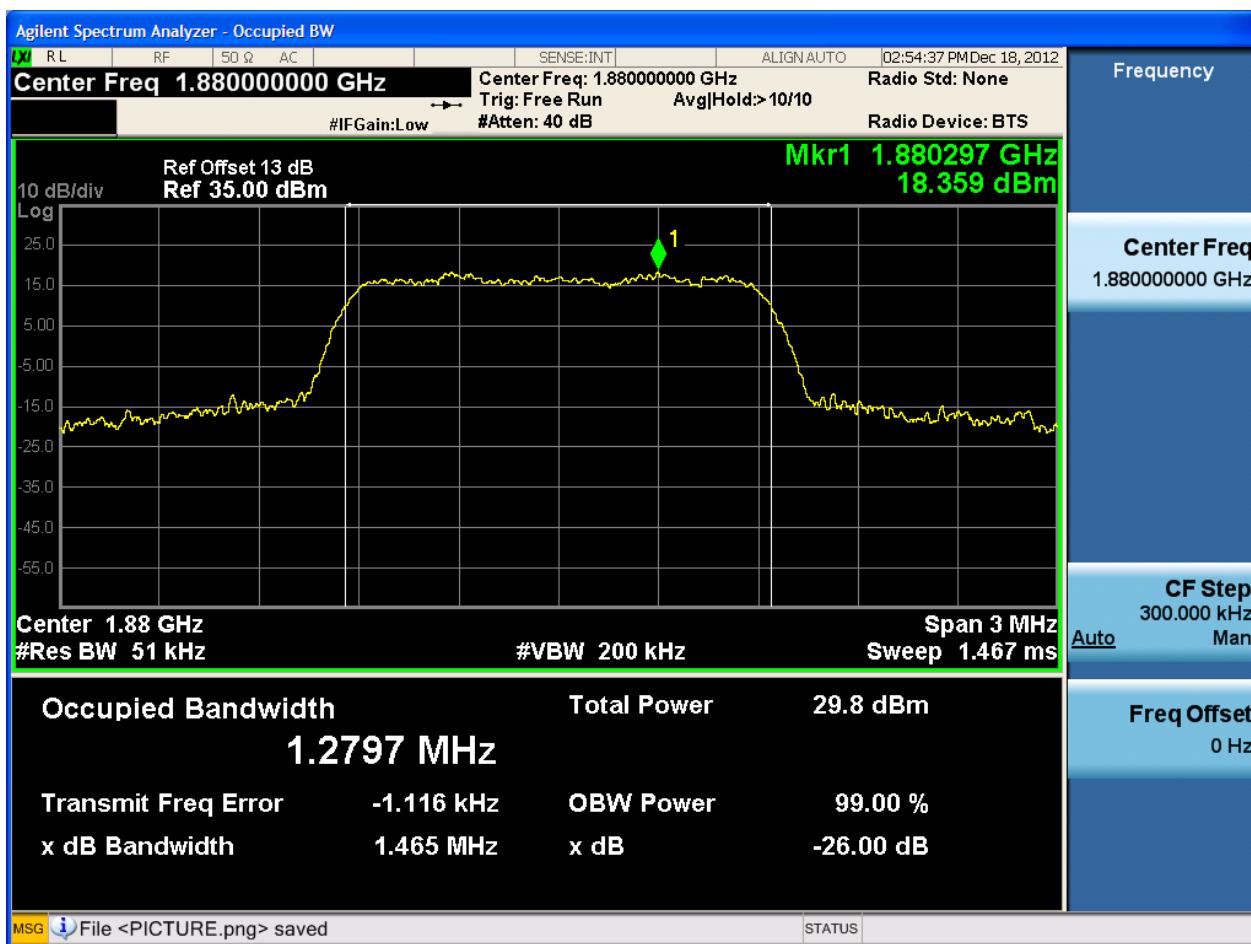
2.2.2.2 Test Mode = CDMA/EV-DO/Subtype2

2.2.2.2.1 Test Modulation = BPSK (256 bits)

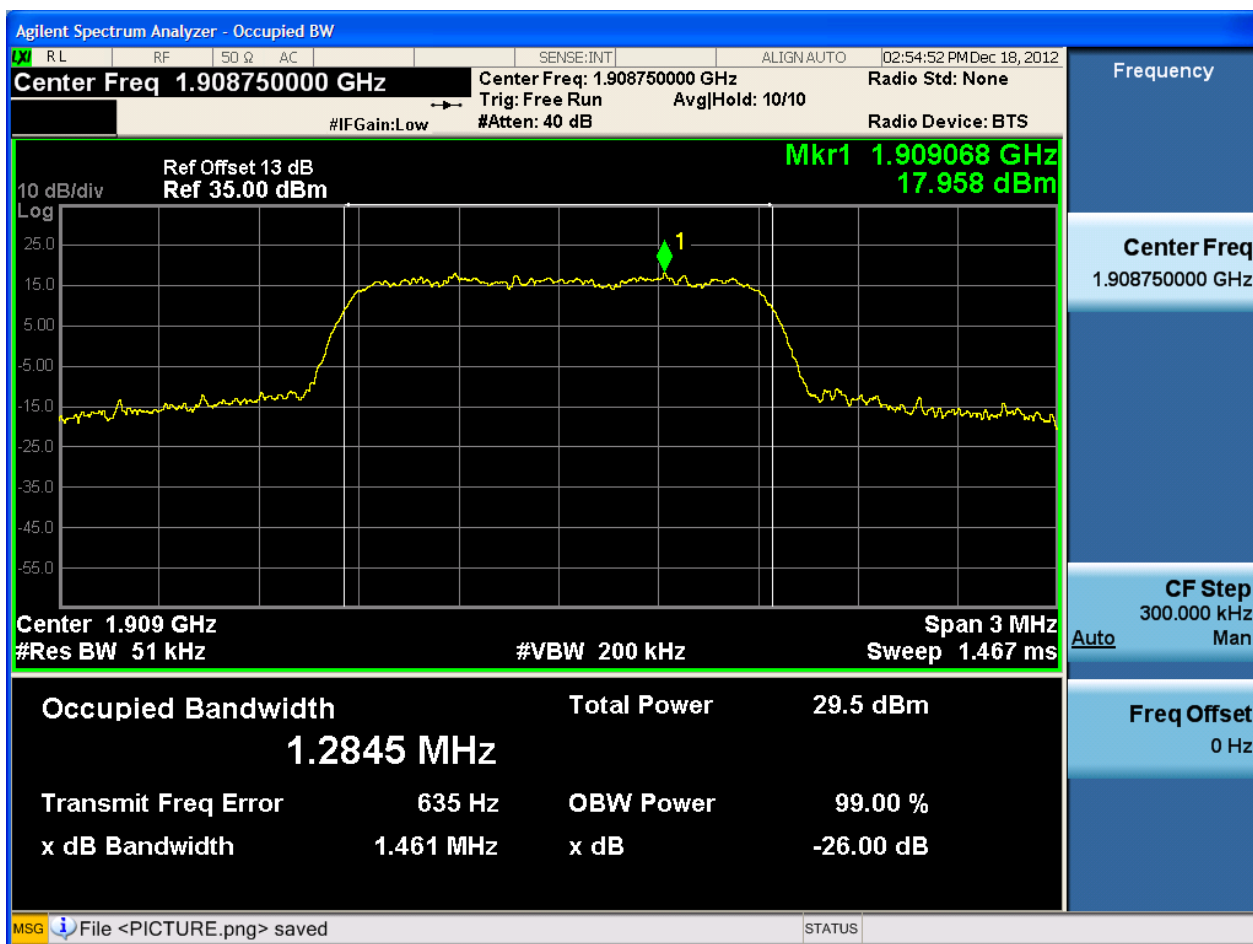
2.2.2.2.1.1 Test Channel = LCH



2.2.2.2.1.2 Test Channel = MCH

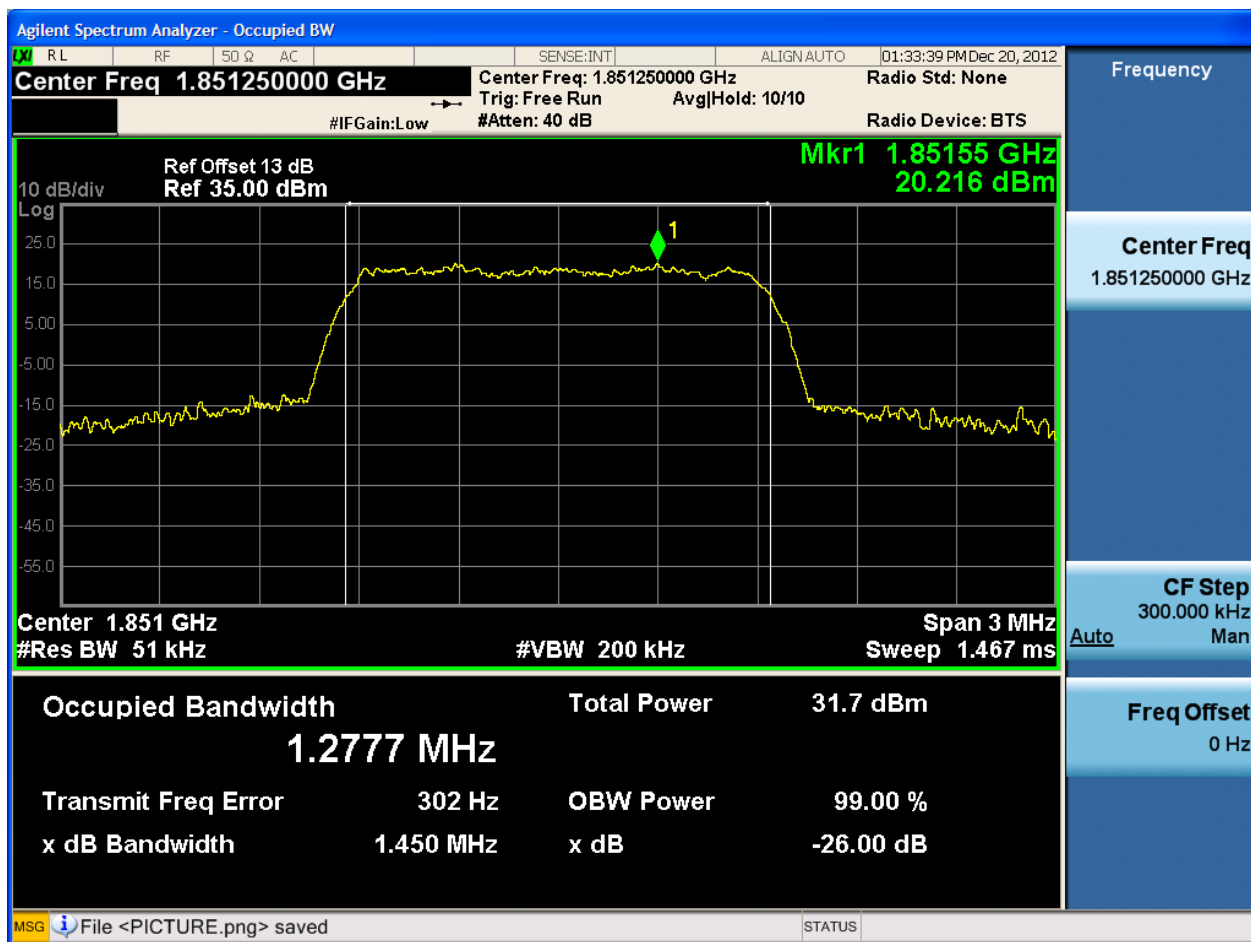


2.2.2.2.1.3 Test Channel = HCH

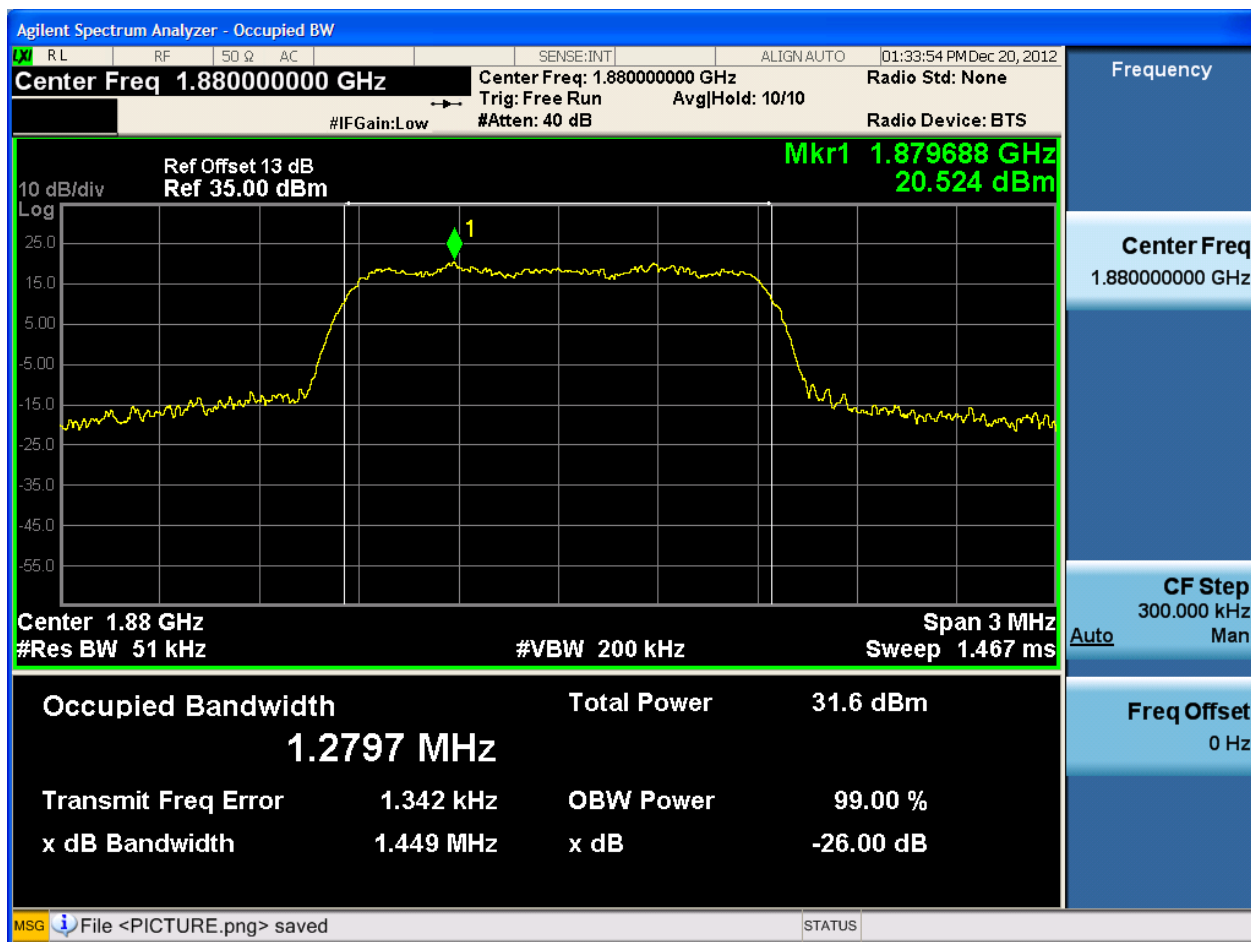


2.2.2.2.2 Test Modulation = QPSK (4096 bits)

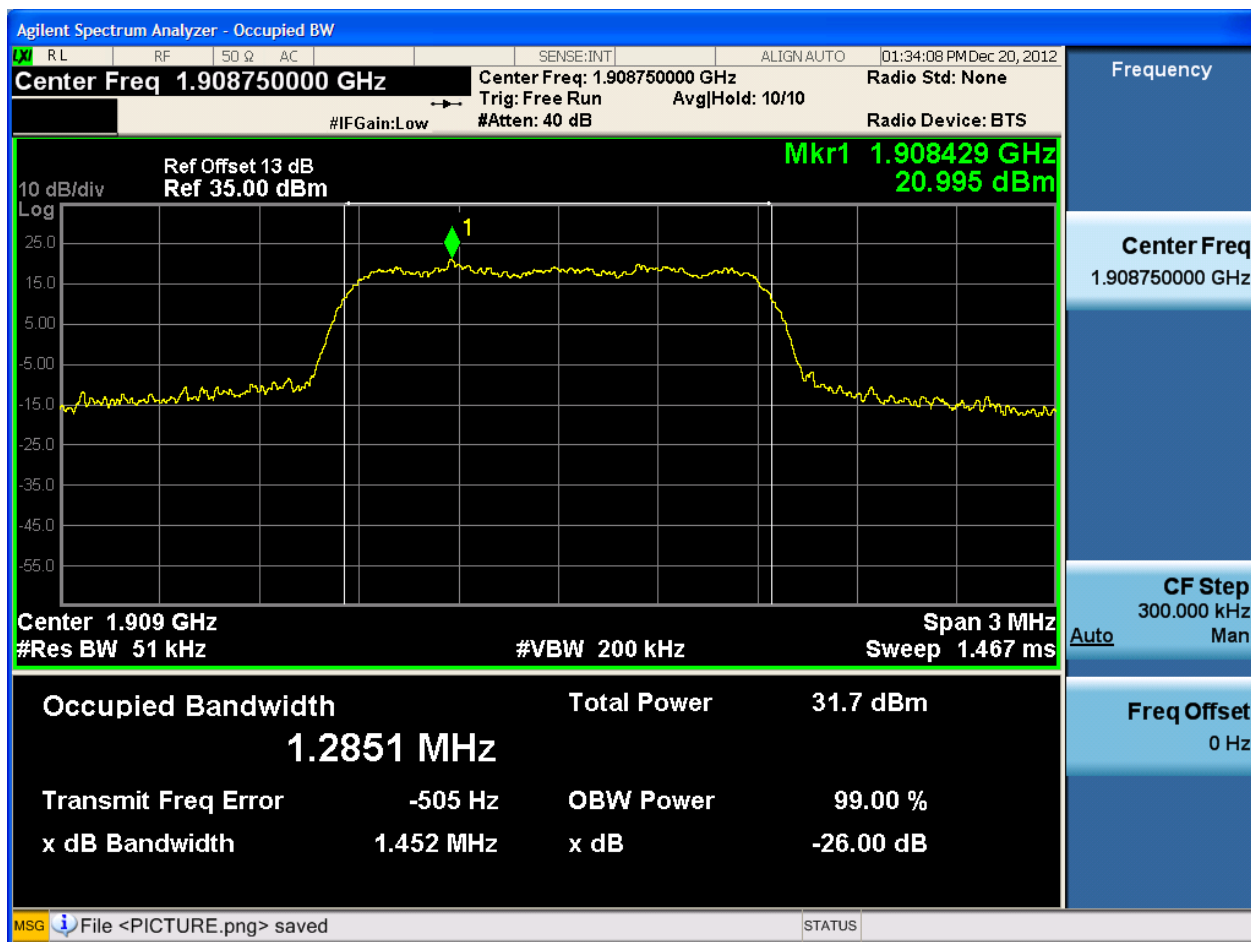
2.2.2.2.2.1 Test Channel = LCH



2.2.2.2.2 Test Channel = MCH

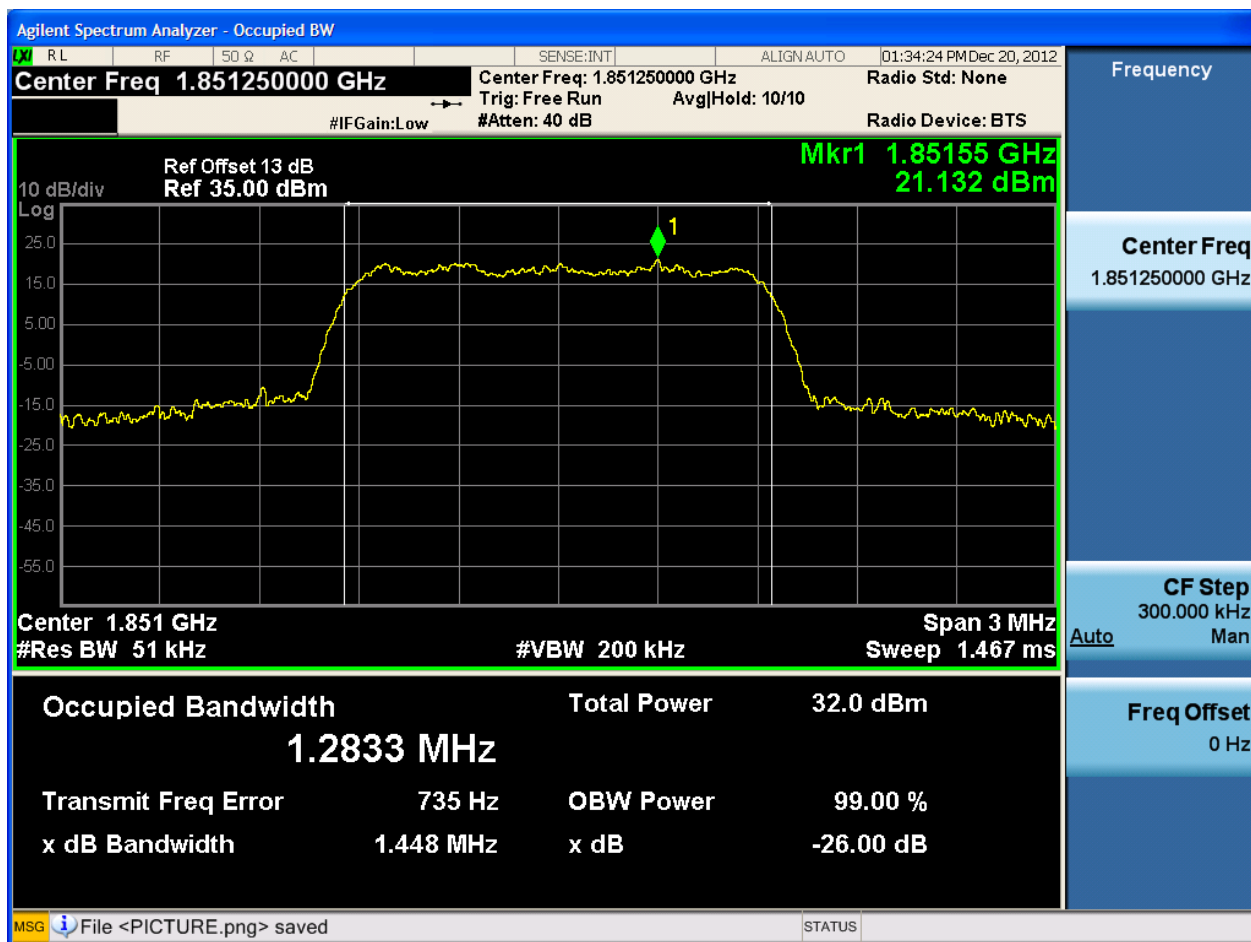


2.2.2.2.3 Test Channel = HCH

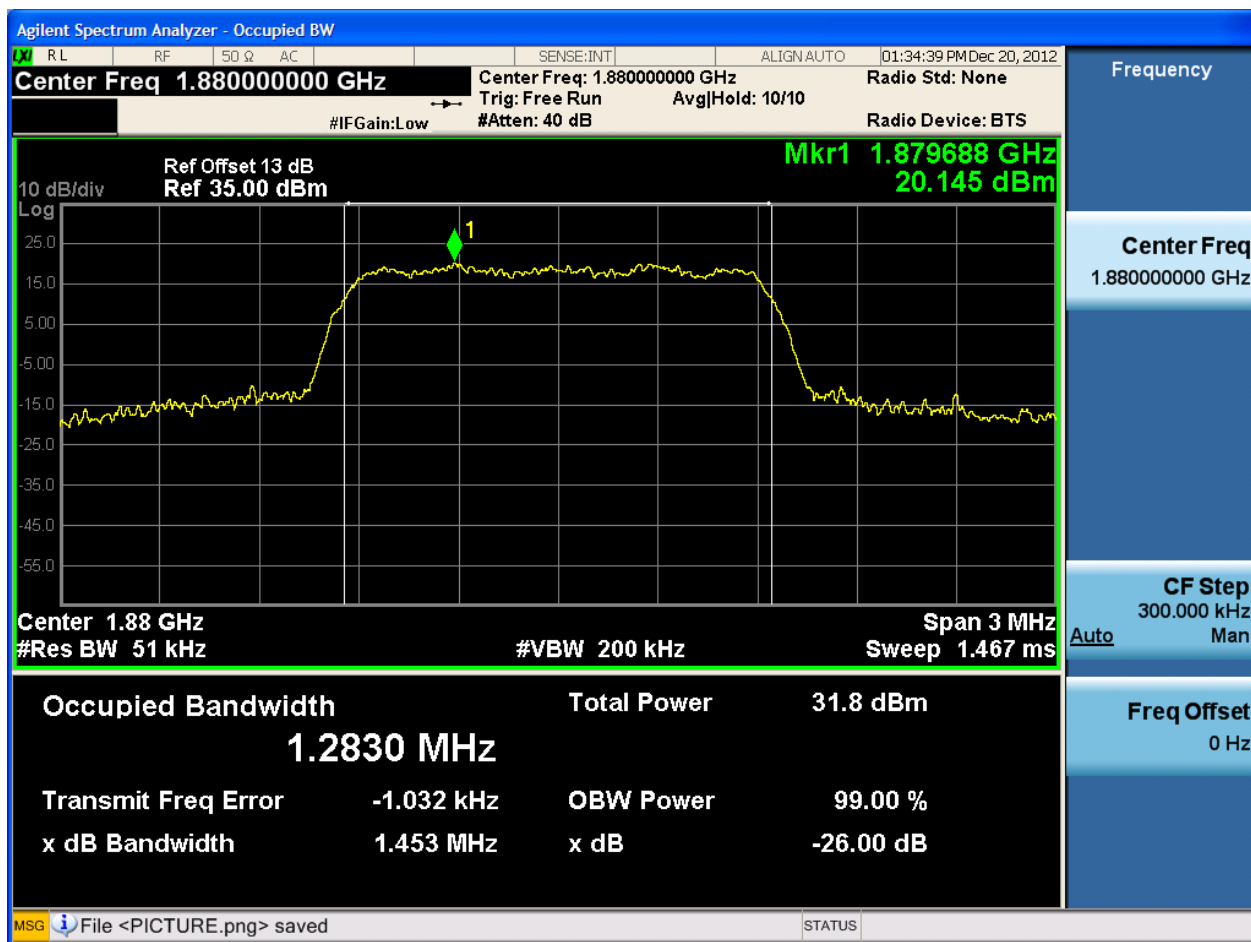


2.2.2.2.3 Test Modulation = 8-PSK (12288 bits)

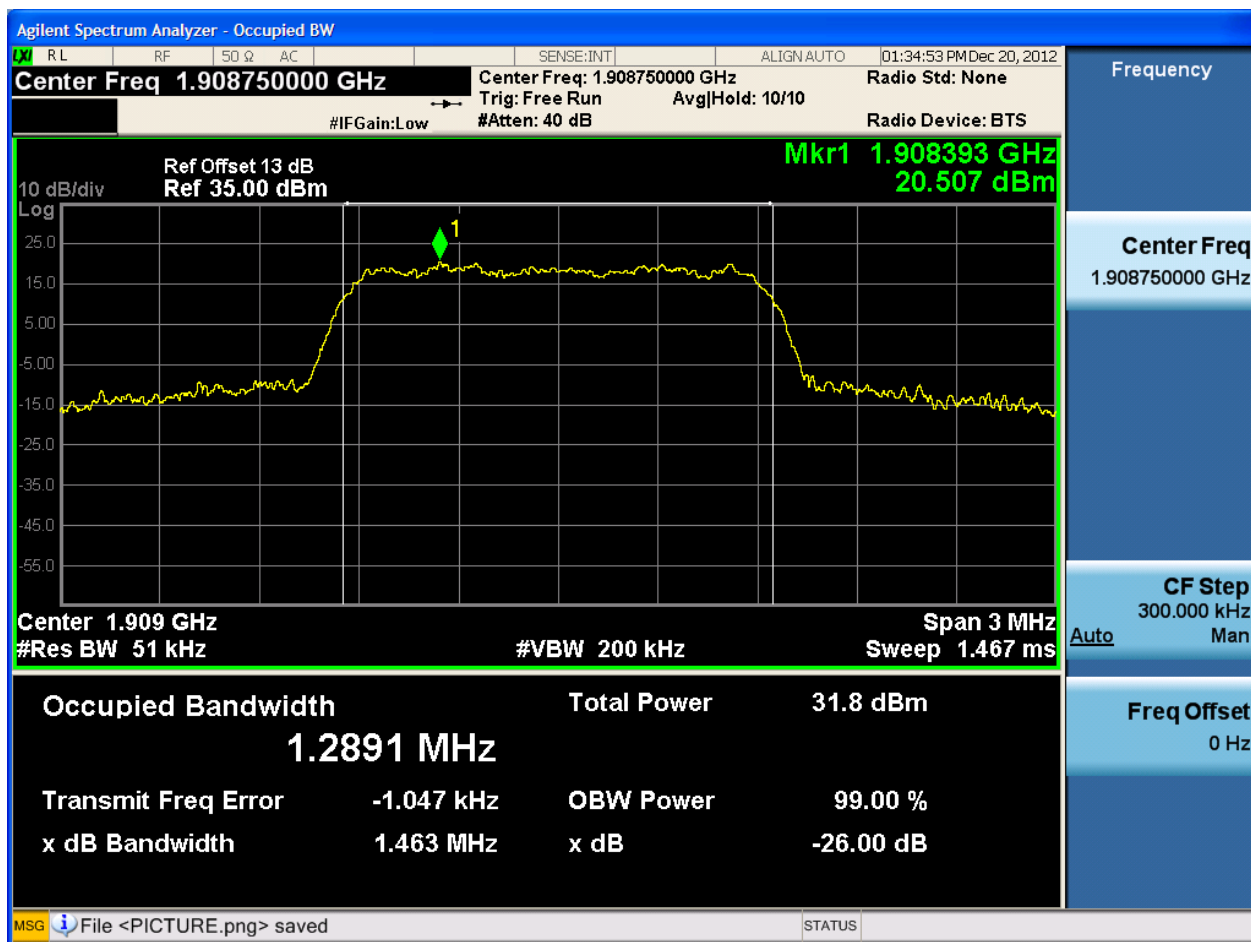
2.2.2.2.2.1 Test Channel = LCH



2.2.2.2.2 Test Channel = MCH



2.2.2.2.3.3 Test Channel = HCH



3Appendix_C: Band Edges Compliance

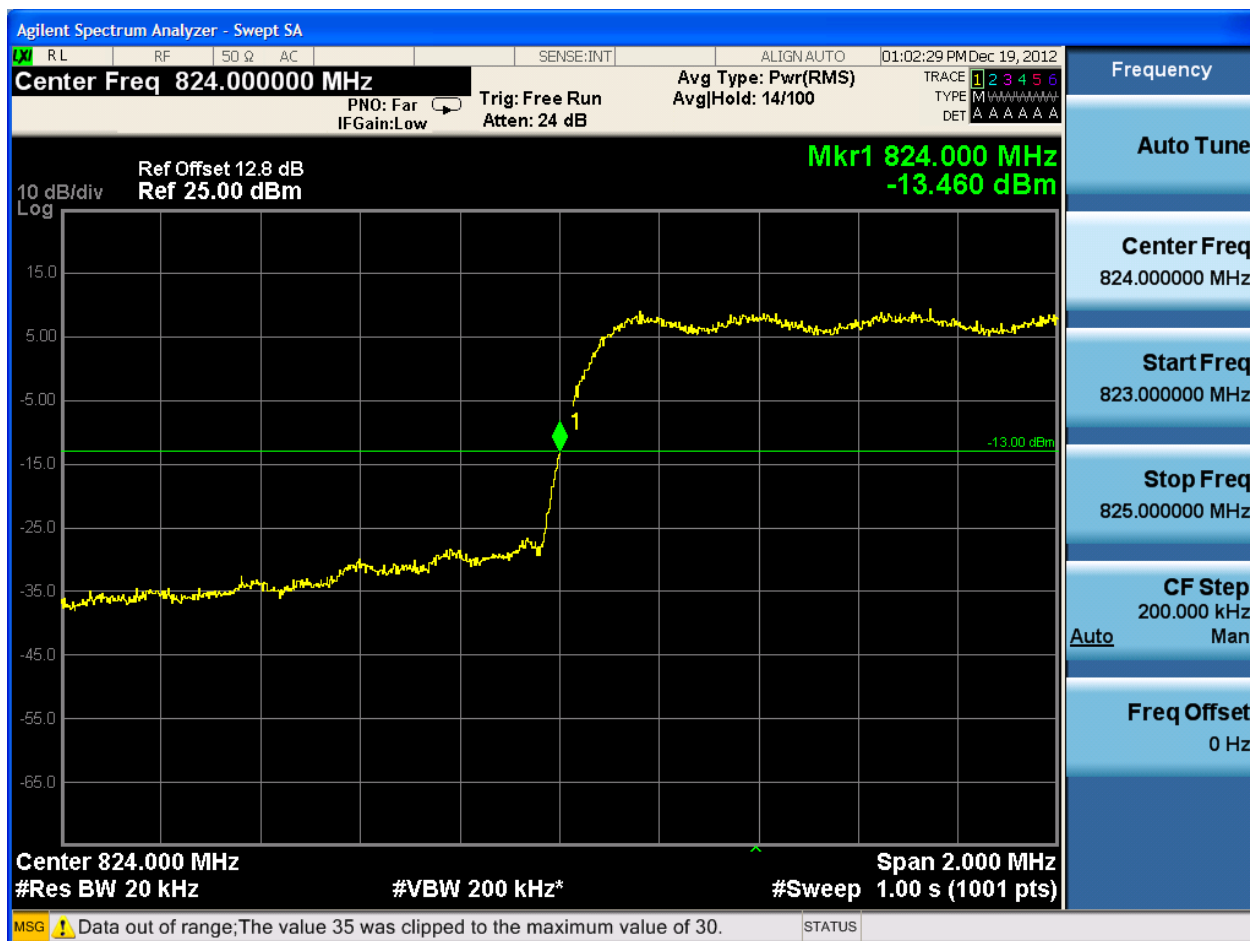
Part I - Test Plots

3.1 For CDMA/1X

3.1.1 Test Band = BC0

3.1.1.1 Test Mode = CDMA/1X/TM1

3.1.1.1.1 Test Channel = LCH

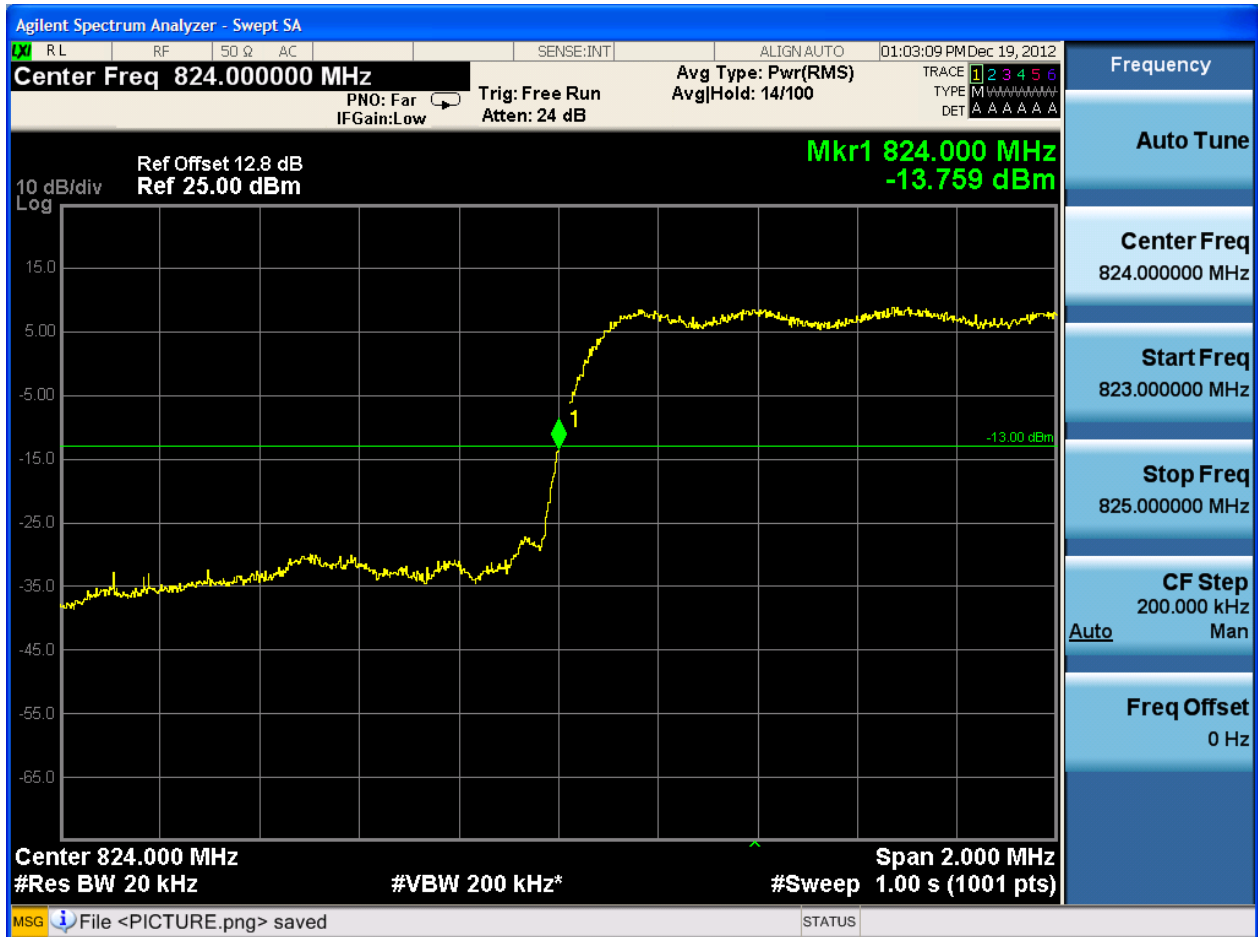


3.1.1.1.2 Test Channel = HCH



3.1.1.2 Test Mode = CDMA/1X/TM3

3.1.1.2.1 Test Channel = LCH



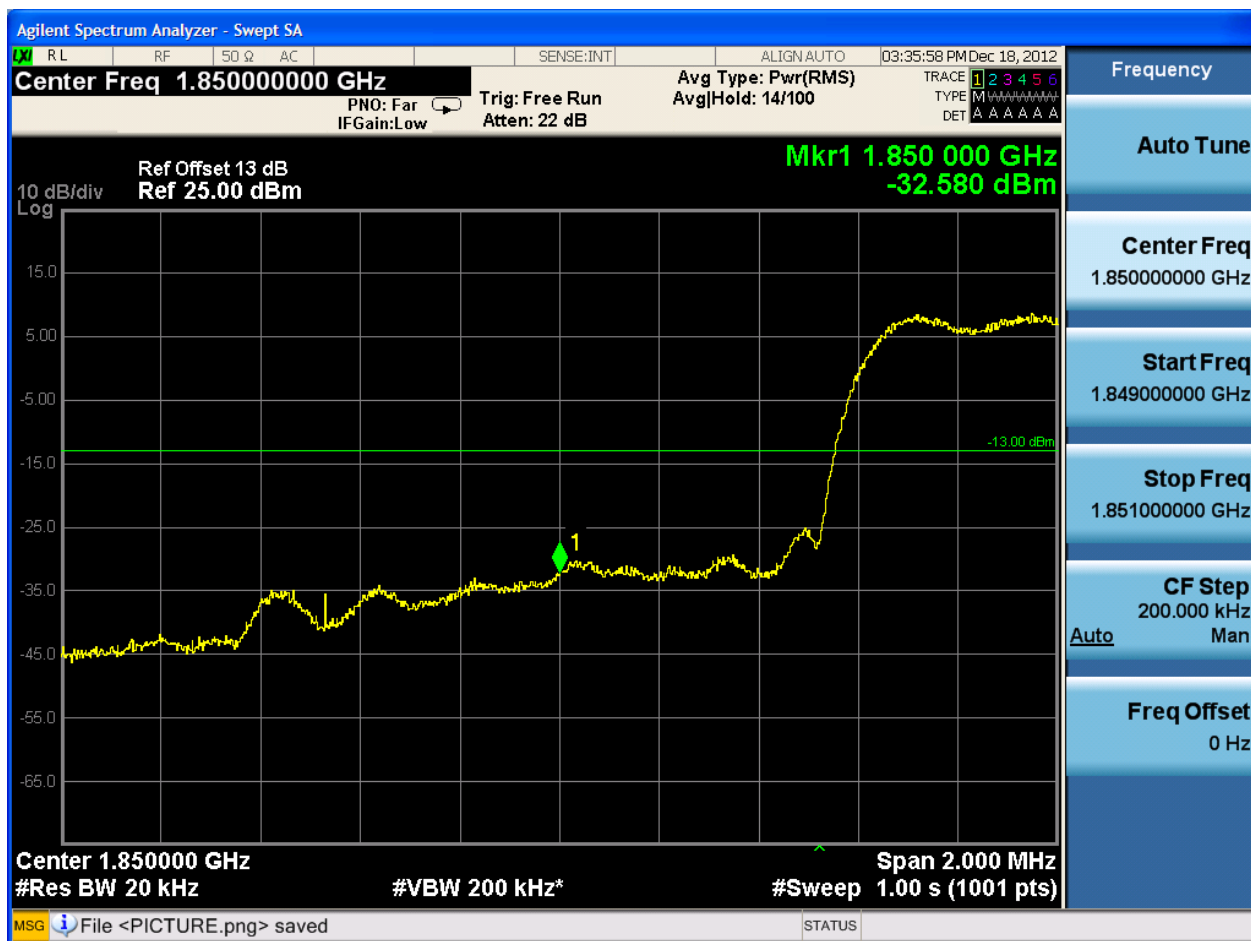
3.1.1.2.2 Test Channel = HCH



3.1.2 Test Band = BC1

3.1.2.1 Test Mode = CDMA/1X/TM1

3.1.2.1.1 Test Channel = LCH



3.1.2.1.2 Test Channel = HCH



3.1.2.2 Test Mode = CDMA/1X/TM3

3.1.2.2.1 Test Channel = LCH



3.1.2.2.2 Test Channel = HCH



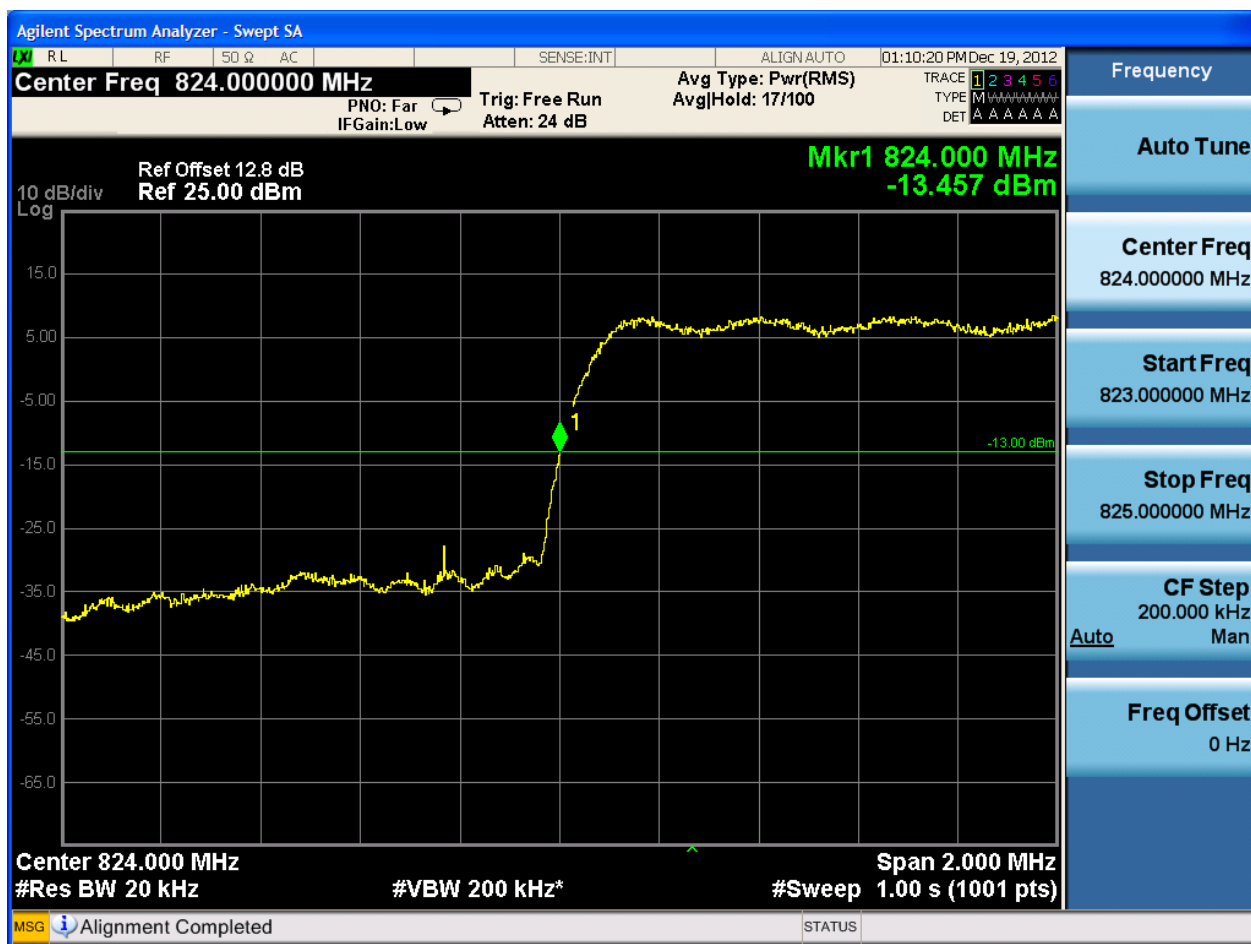
3.2 For CDMA/EV-DO

3.2.1 Test Band = BC0

3.2.1.1 Test Mode = CDMA/EV-DO/Subtype0

3.2.1.1.1 Test Modulation = HPSK

3.2.1.1.1.1 Test Channel = LCH



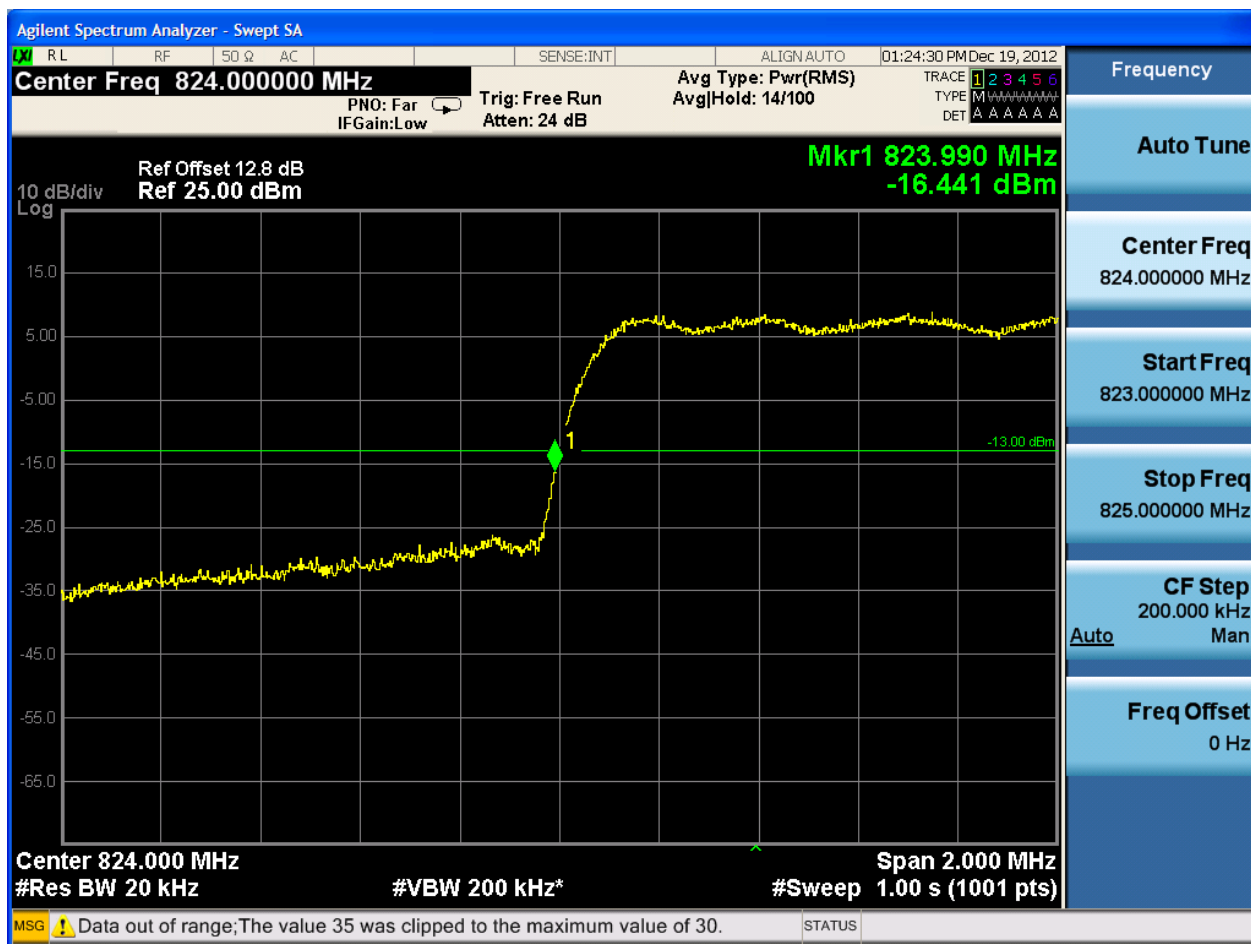
3.2.1.1.1.2 Test Channel = HCH



3.2.1.2 Test Mode = CDMA/EV-DO/Subtype2

3.2.1.2.1 Test Modulation = BPSK (256 bits)

3.2.1.2.1.1 Test Channel = LCH

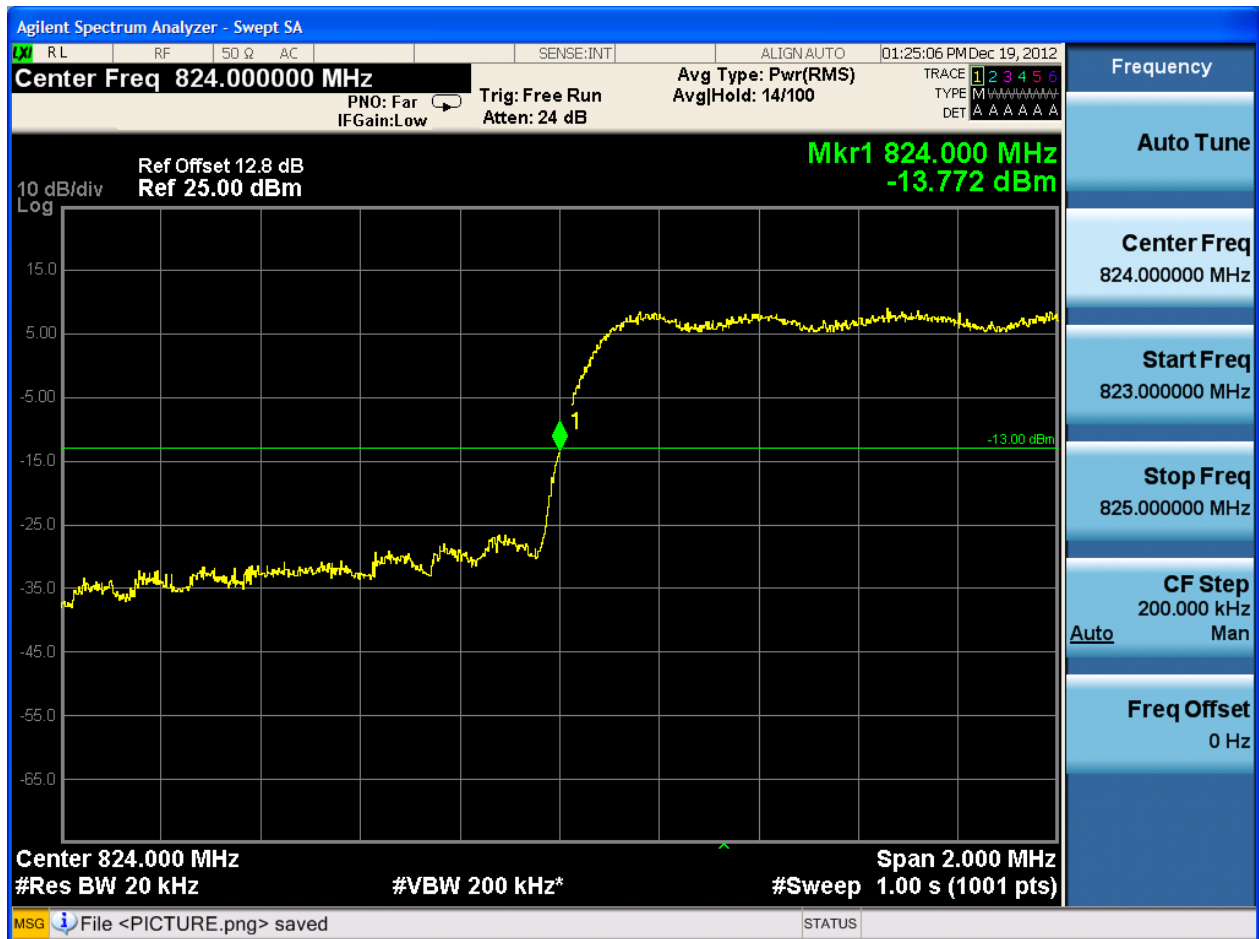


3.2.1.2.1.2 Test Channel = HCH



3.2.1.2.2 Test Modulation = QPSK (4096 bits)

3.2.1.2.2.1 Test Channel = LCH

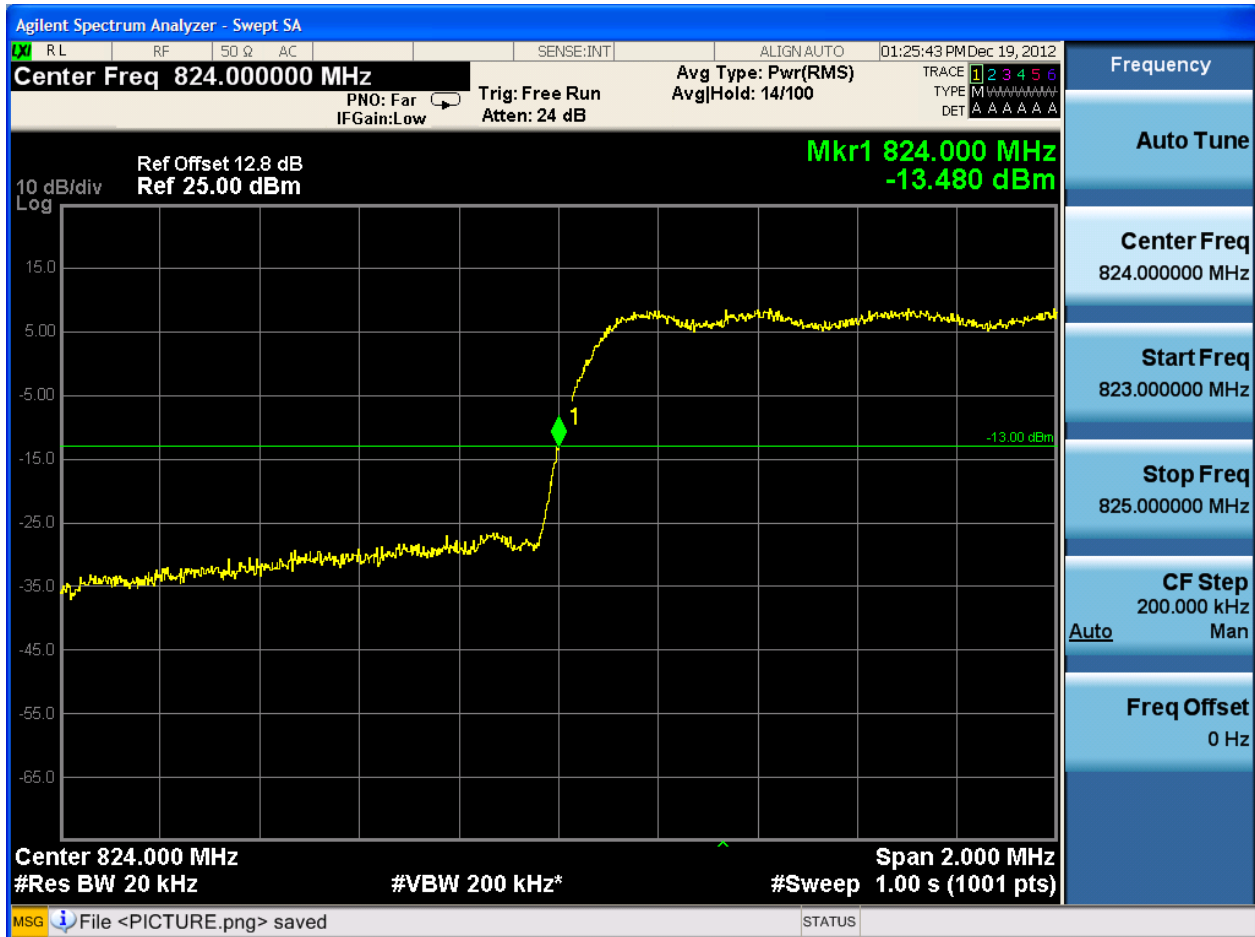


3.2.1.2.2.2 Test Channel = HCH



3.2.1.2.3 Test Modulation = 8-PSK (12288 bits)

3.2.1.2.2.1 Test Channel = LCH



3.2.1.2.2.2 Test Channel = HCH



3.2.3 Test Band = BC1

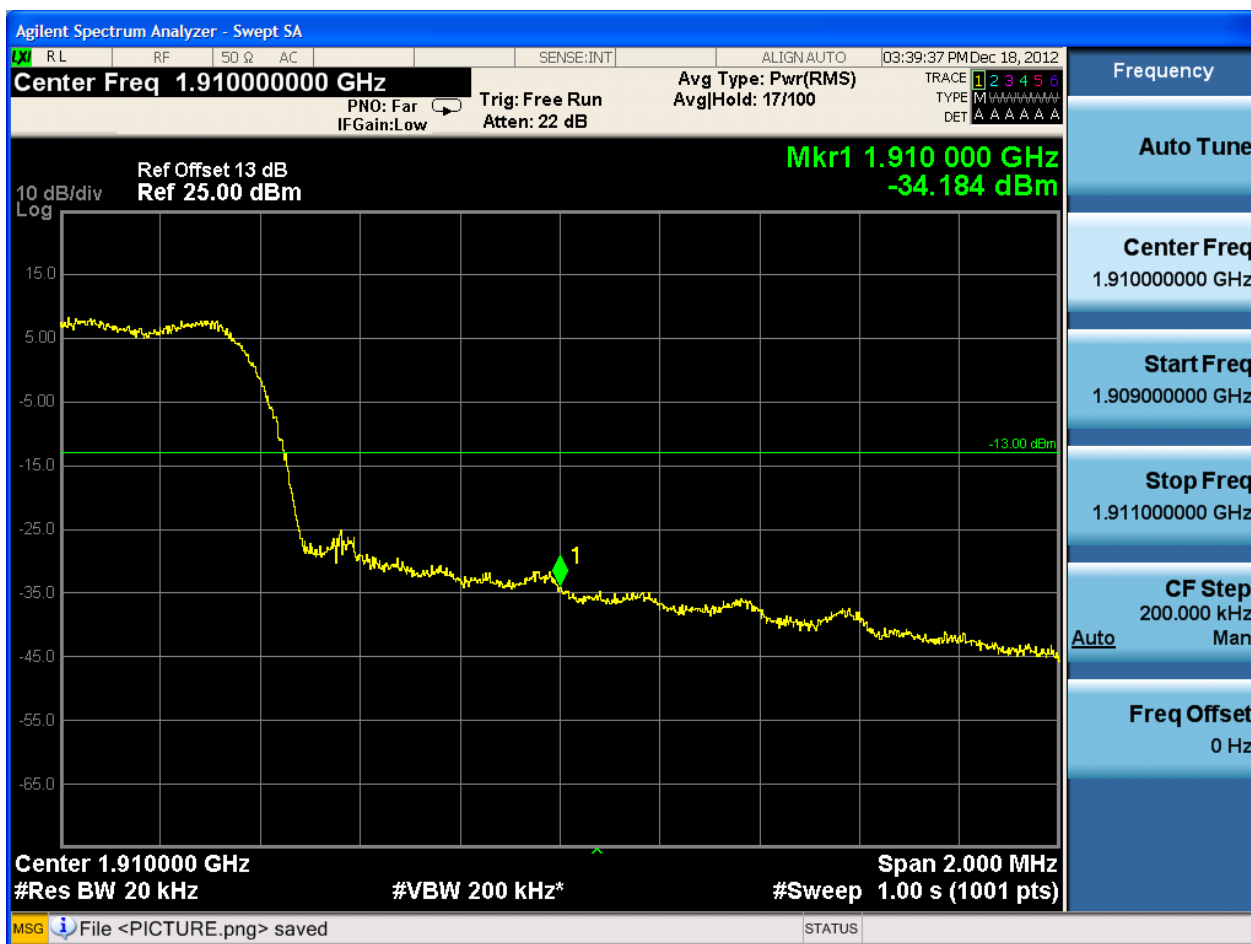
3.2.2.1 Test Mode = CDMA/EV-DO/Subtype0

3.2.2.1.1 Test Modulation = HPSK

3.2.2.1.1.1 Test Channel = LCH



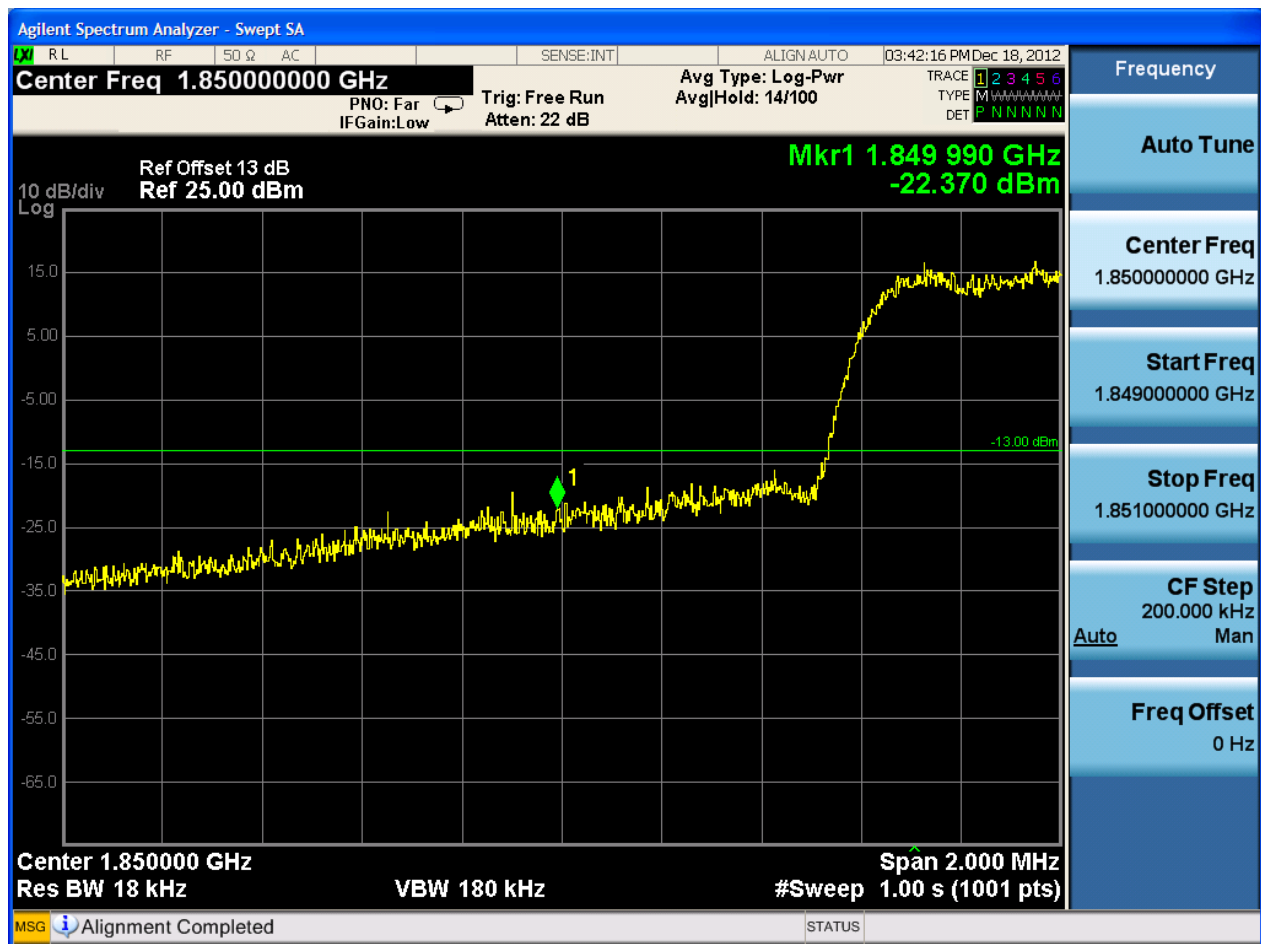
3.2.2.1.1.2 Test Channel = HCH



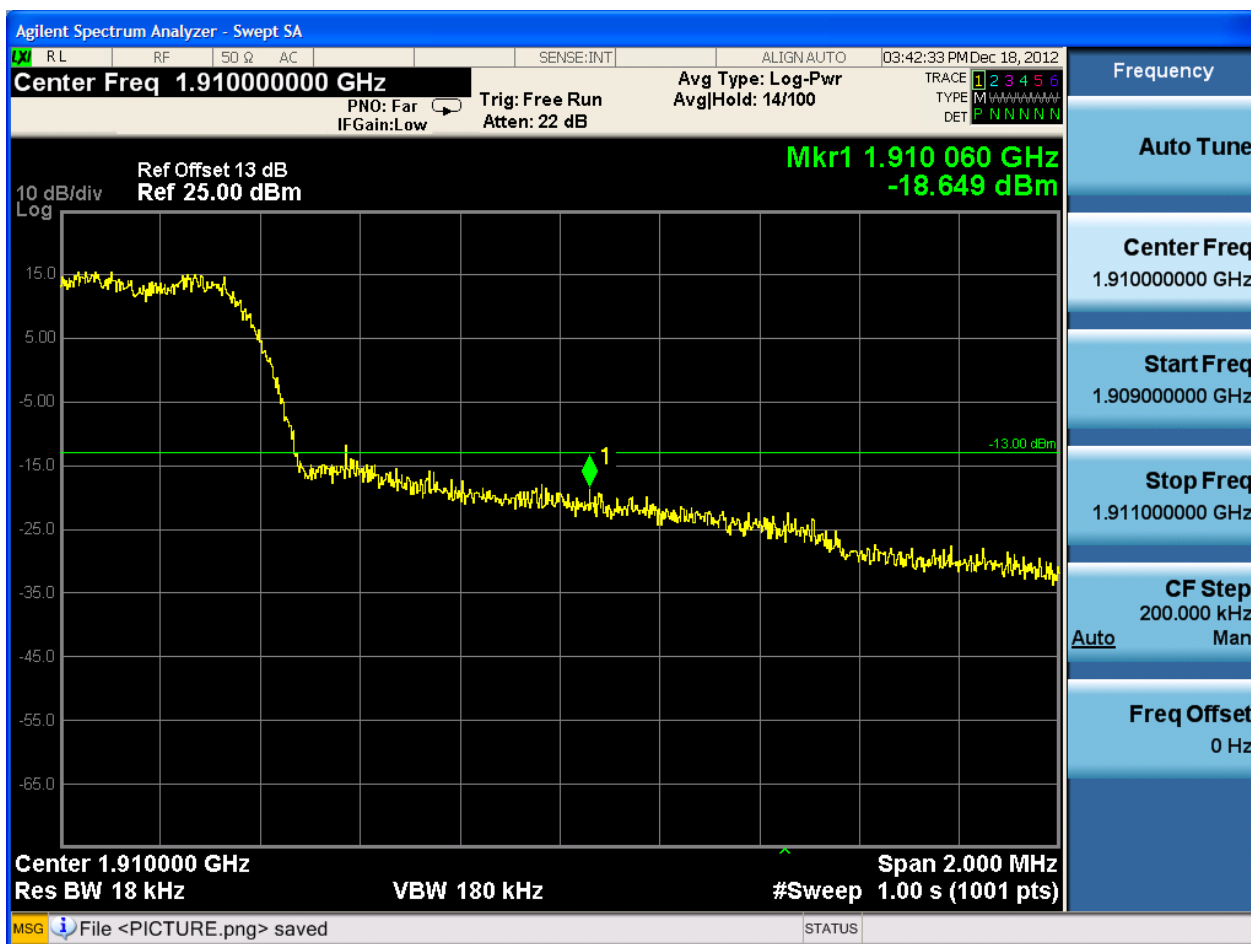
3.2.2.2 Test Mode = CDMA/EV-DO/Subtype2

3.2.2.2.1 Test Modulation = BPSK (256 bits)

3.2.2.2.1.1 Test Channel = LCH

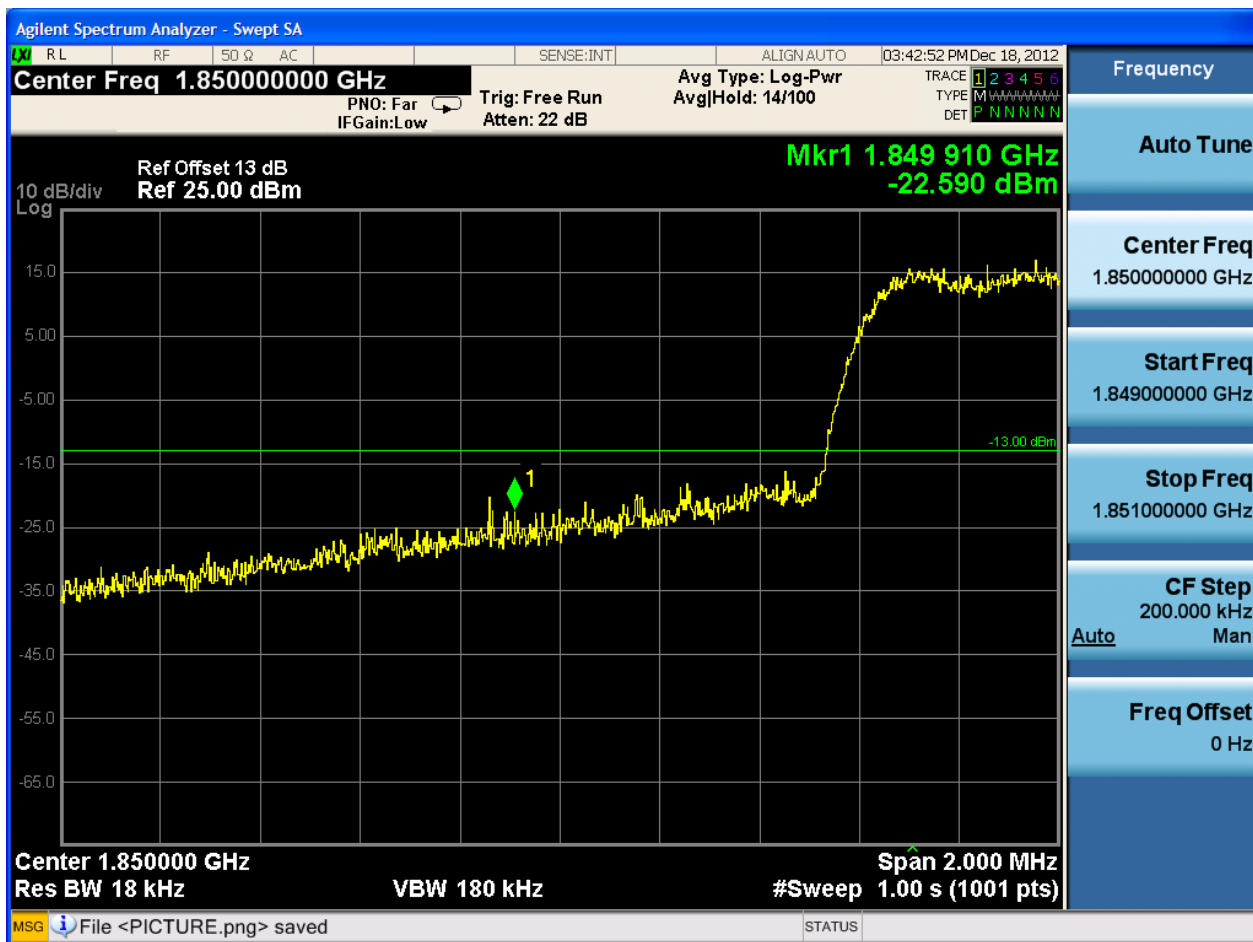


3.2.2.2.1.2 Test Channel = HCH

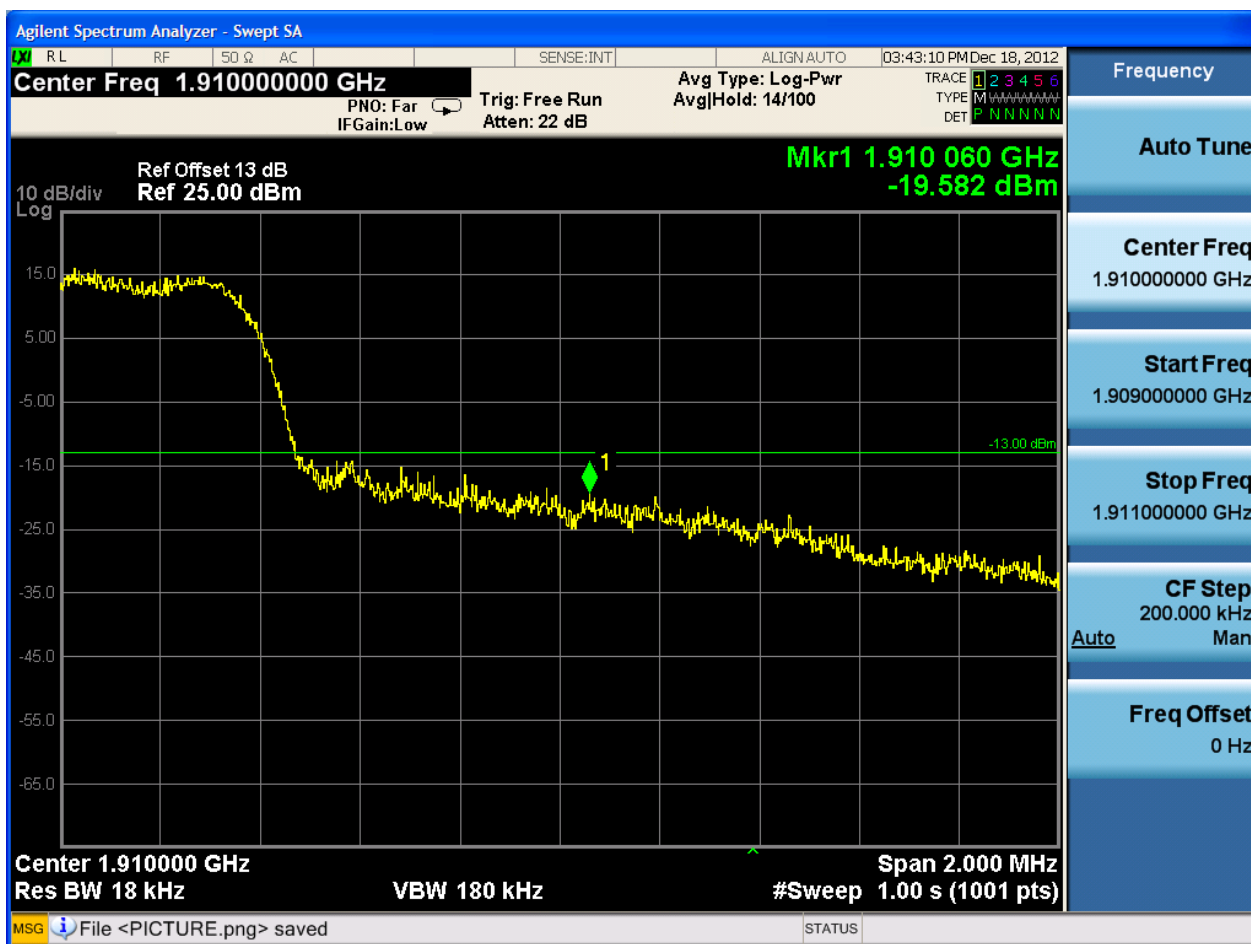


3.2.2.2.2 Test Modulation = QPSK (4096 bits)

3.2.2.2.2.1 Test Channel = LCH

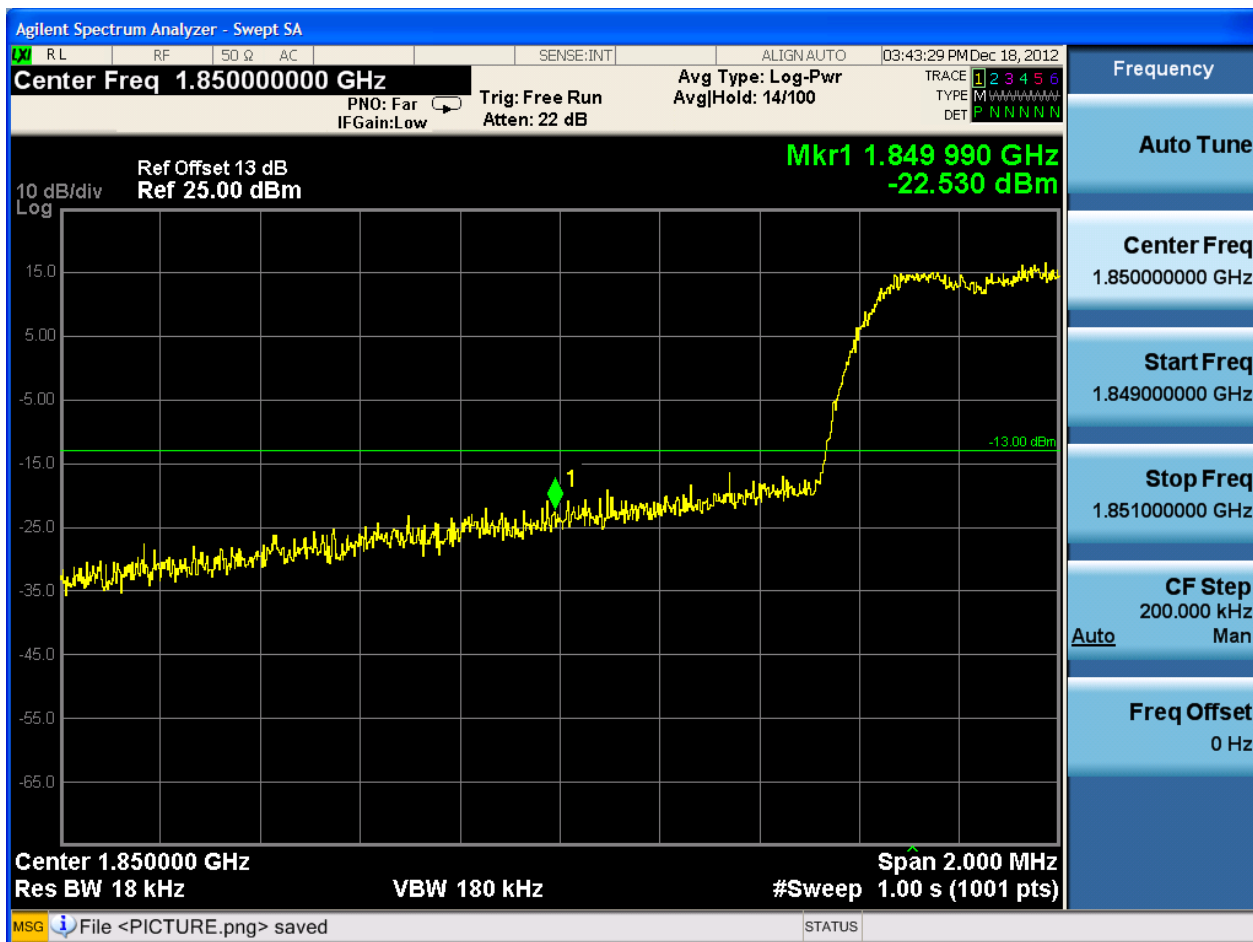


3.2.2.2.2 Test Channel = HCH

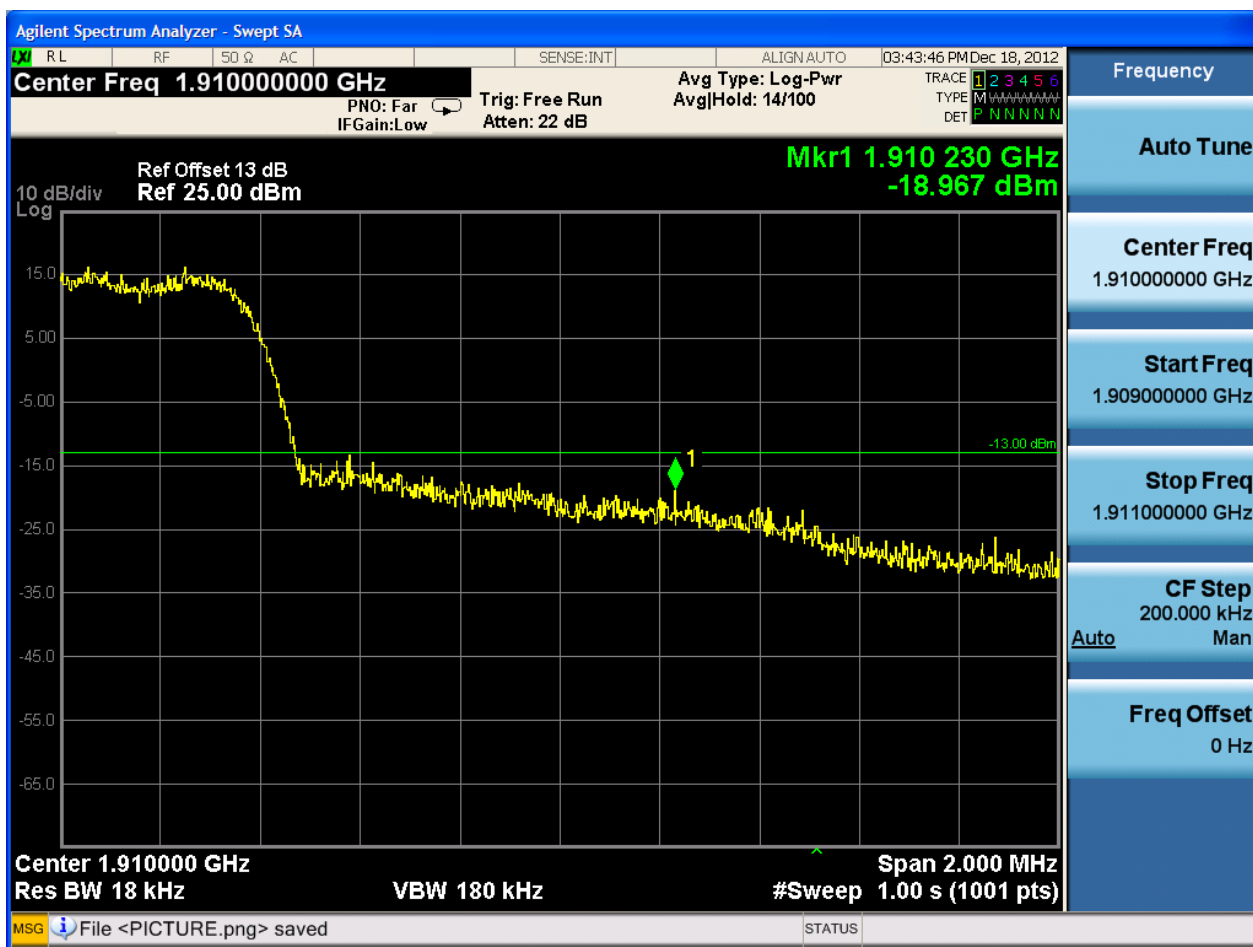


3.2.2.2.3 Test Modulation = 8-PSK (12288 bits)

3.2.2.2.2.1 Test Channel = LCH



3.2.2.2.2 Test Channel = HCH



4Appendix_D: Spurious Emission at Antenna Terminal

NOTE: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of $< RBW/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (Span / RBW)$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

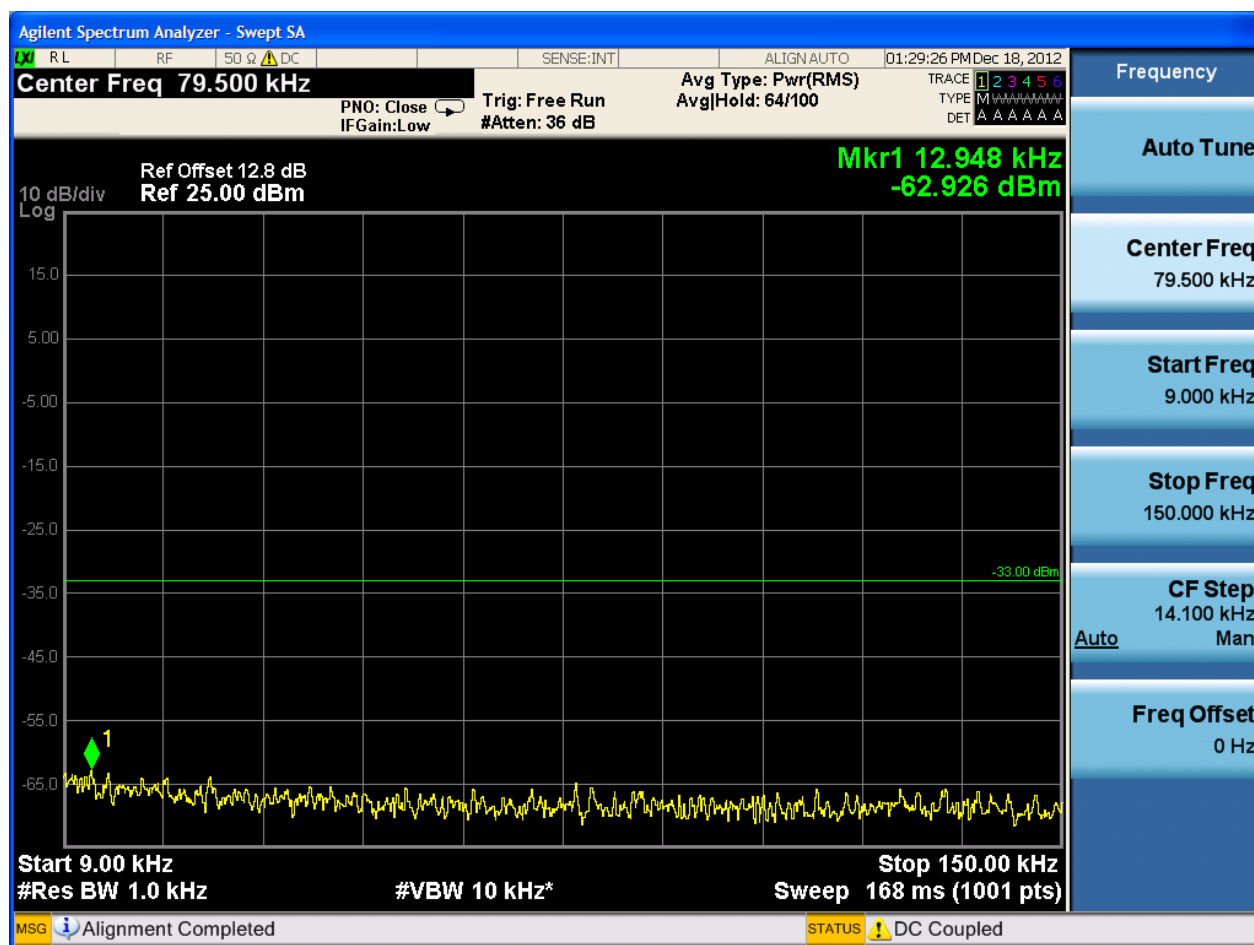
Part I - Test Plots

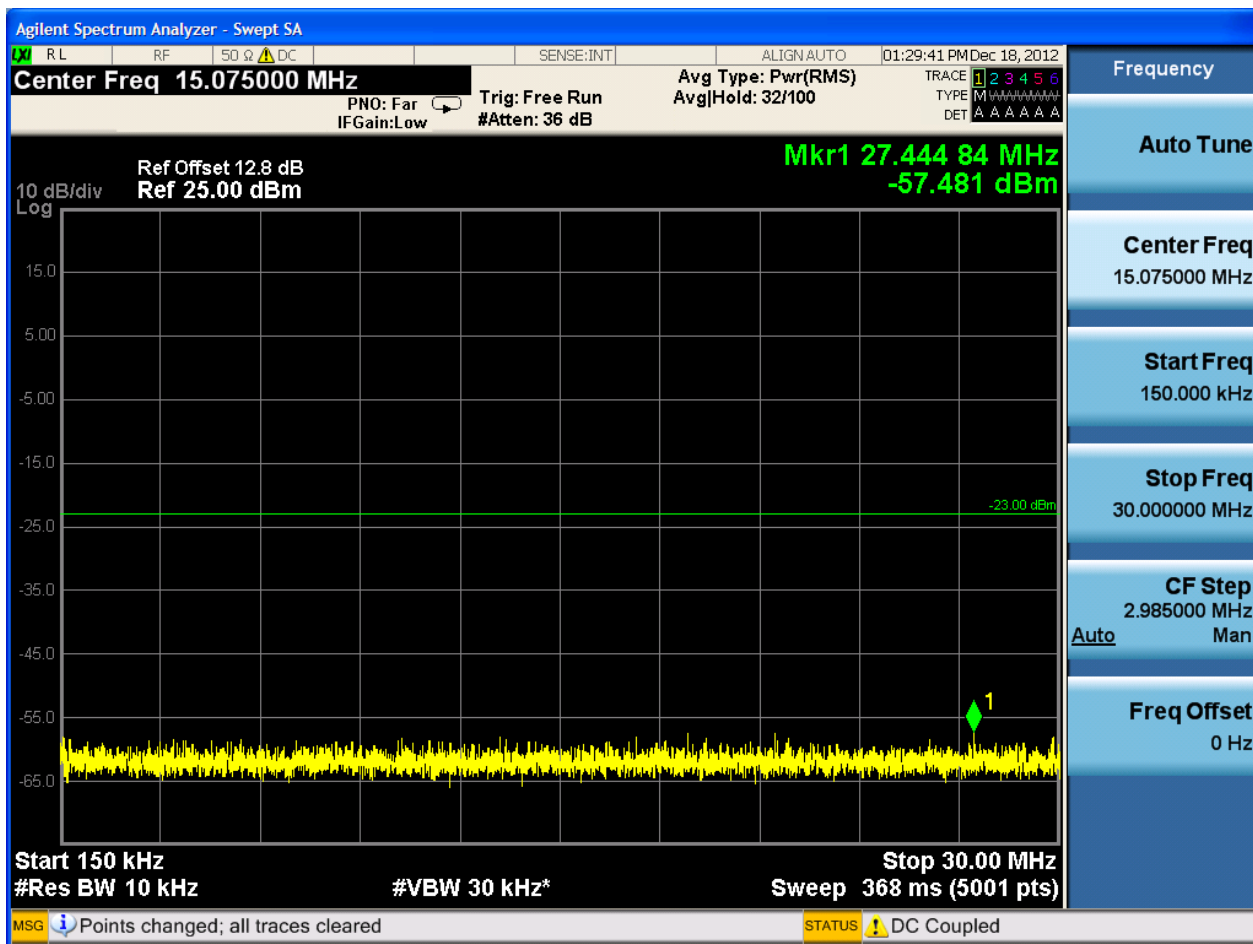
4.1 For CDMA/1X

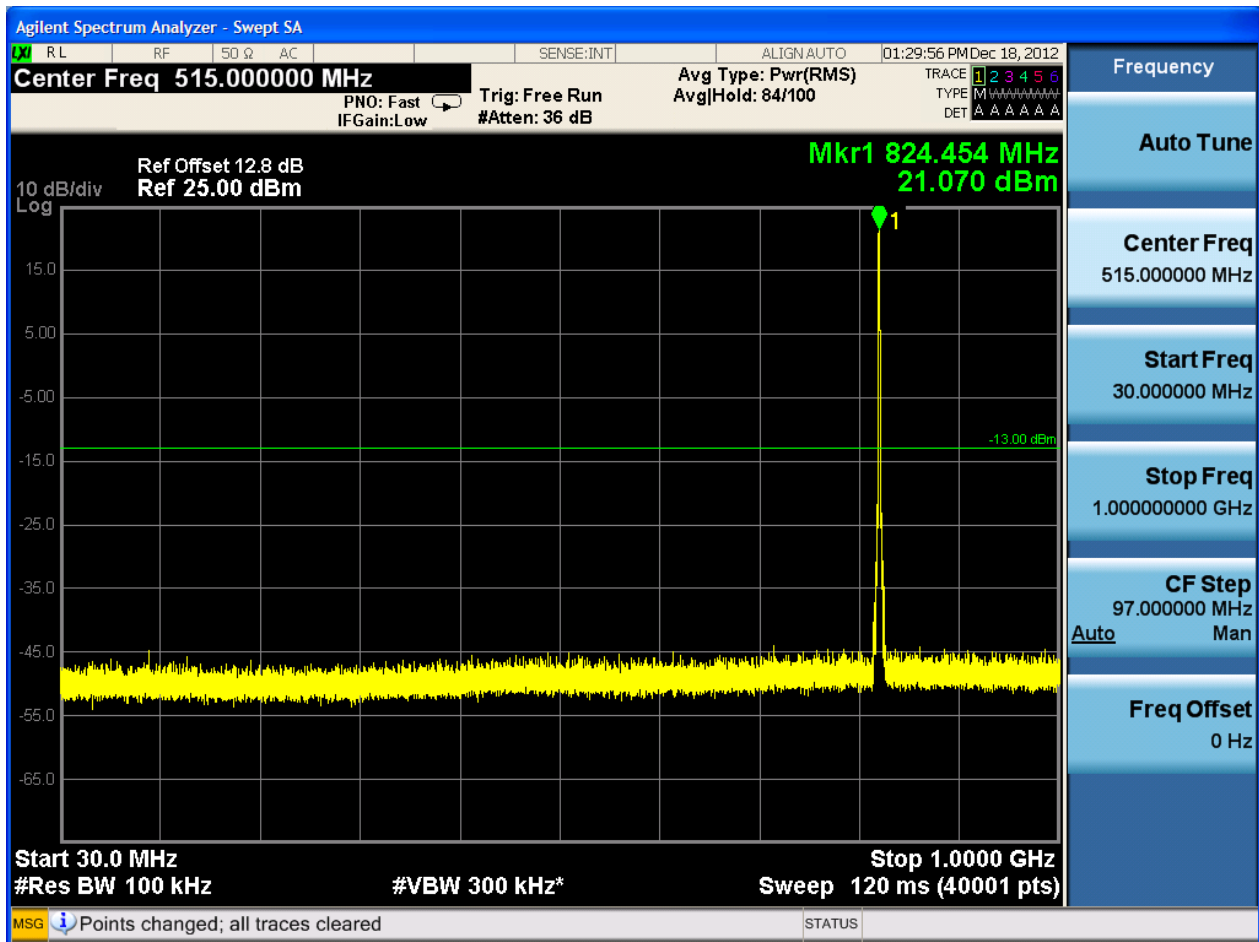
4.1.1 Test Band = BC0

4.1.1.1 Test Mode = CDMA/1X/TM1

4.1.1.1.1 Test Channel = LCH

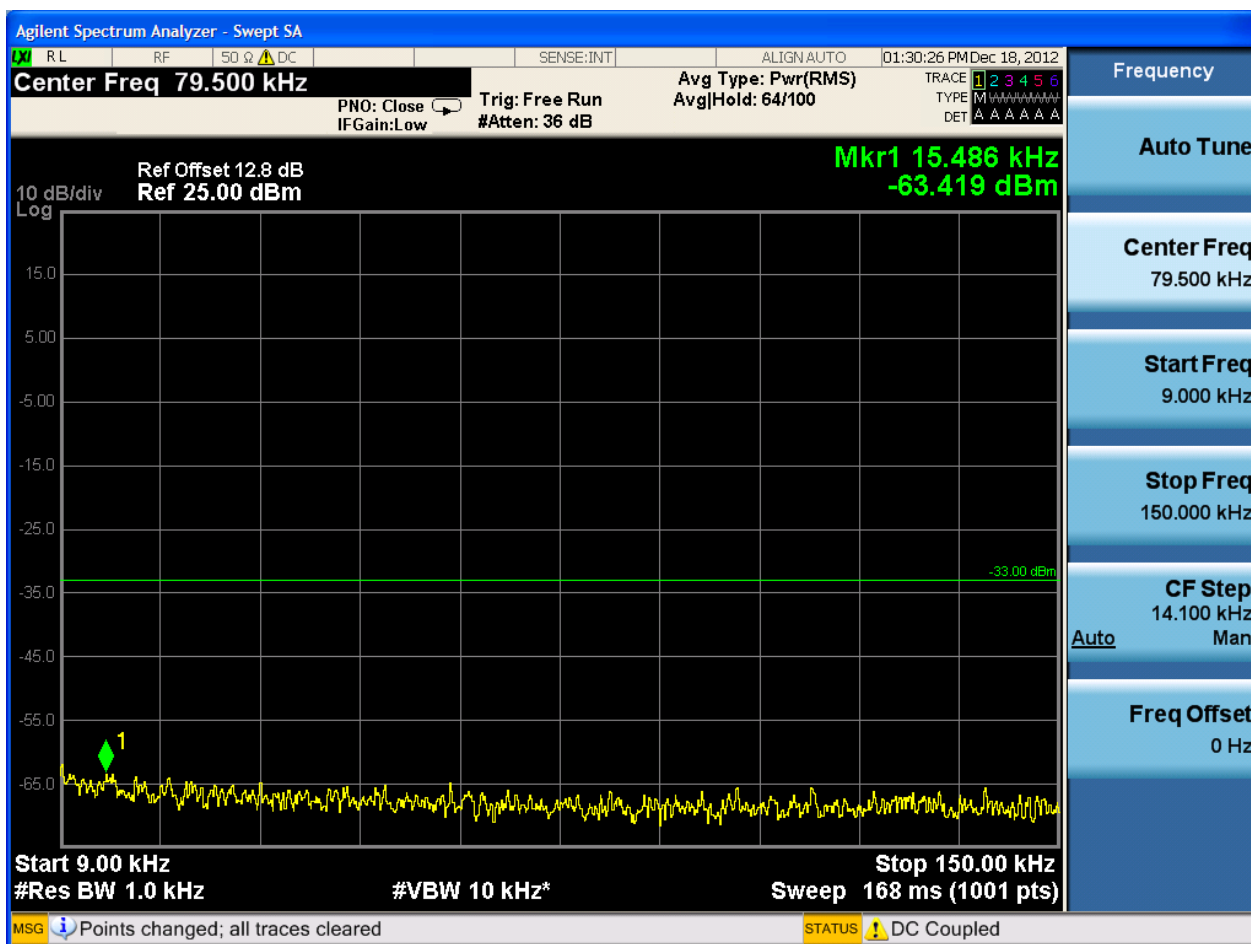


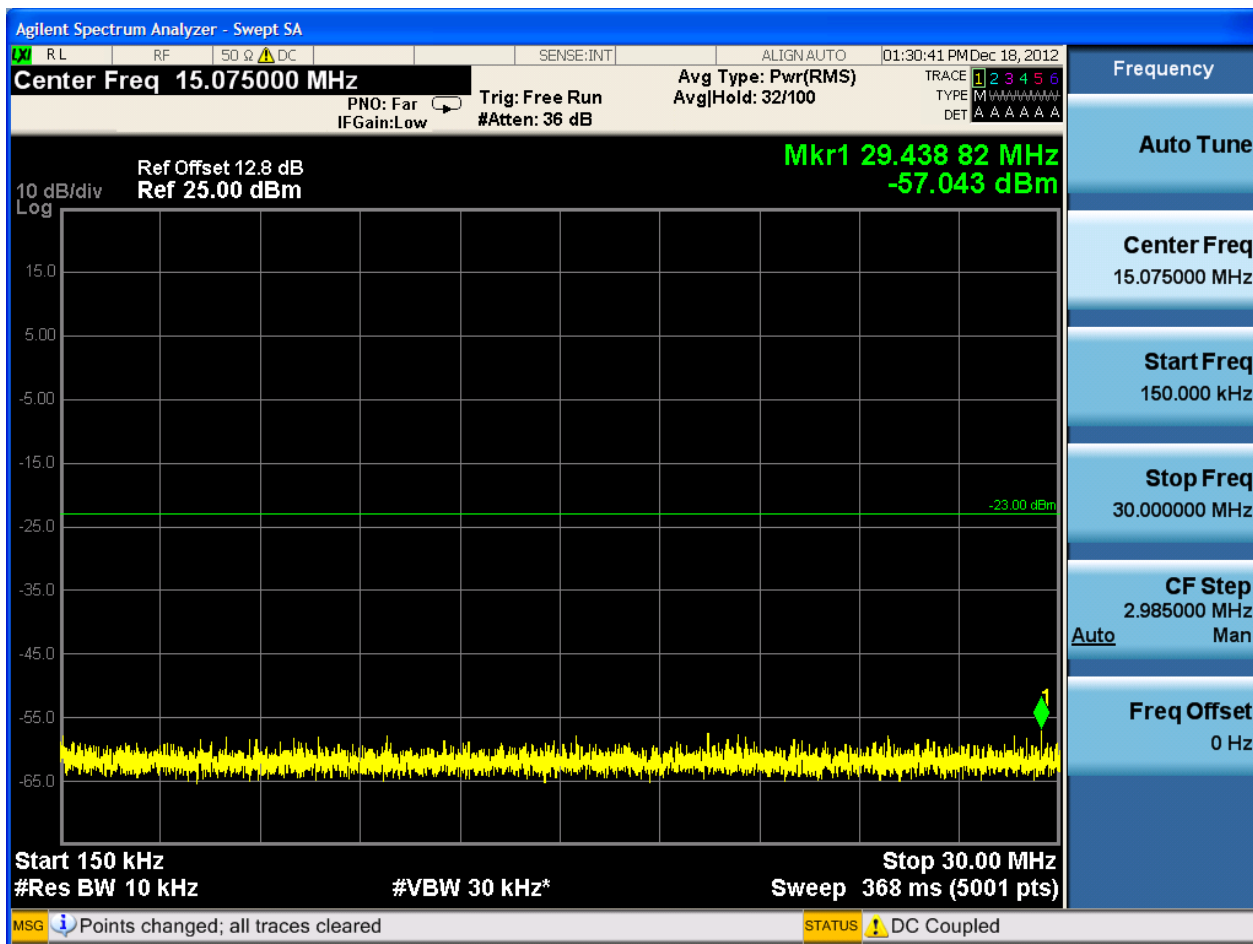


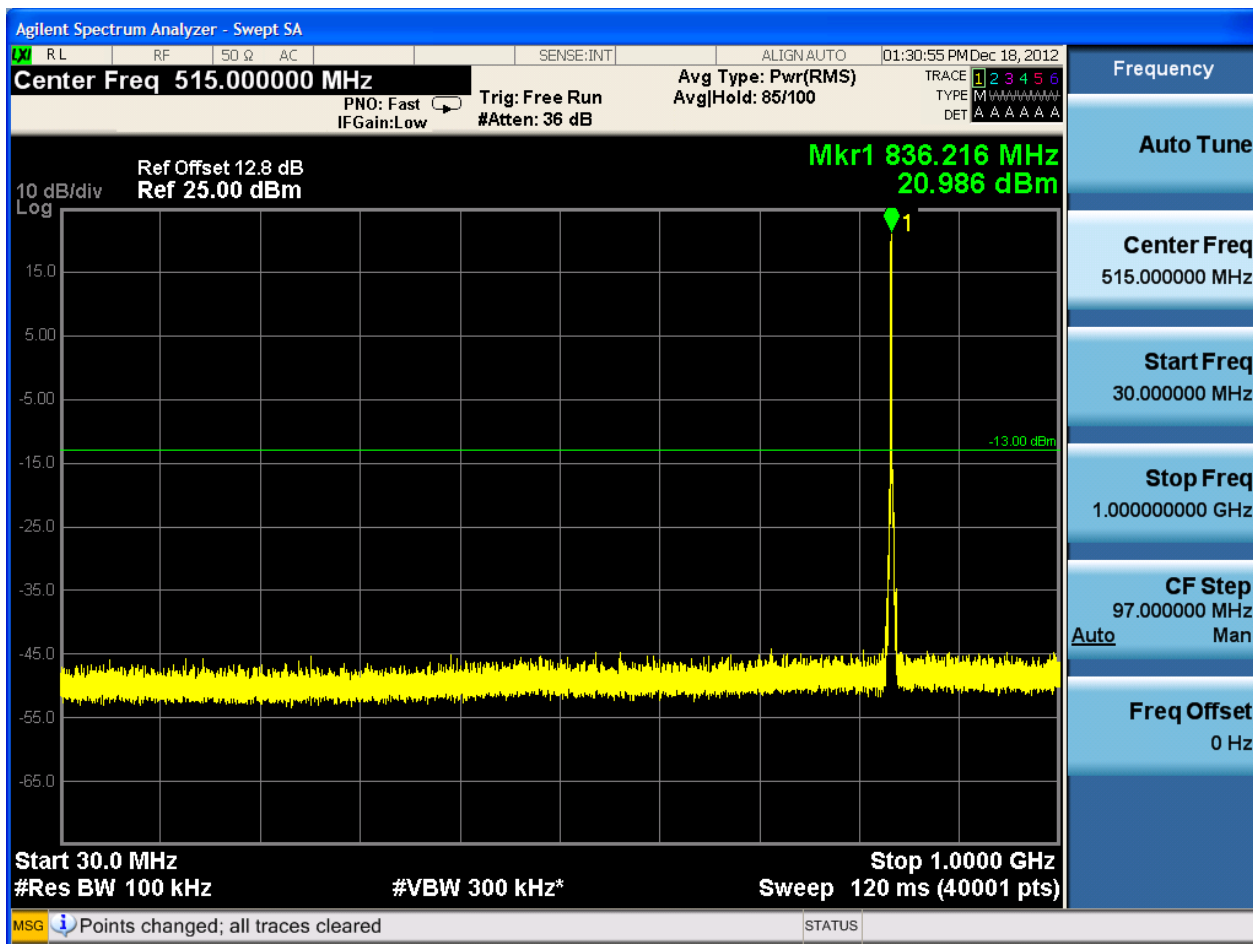


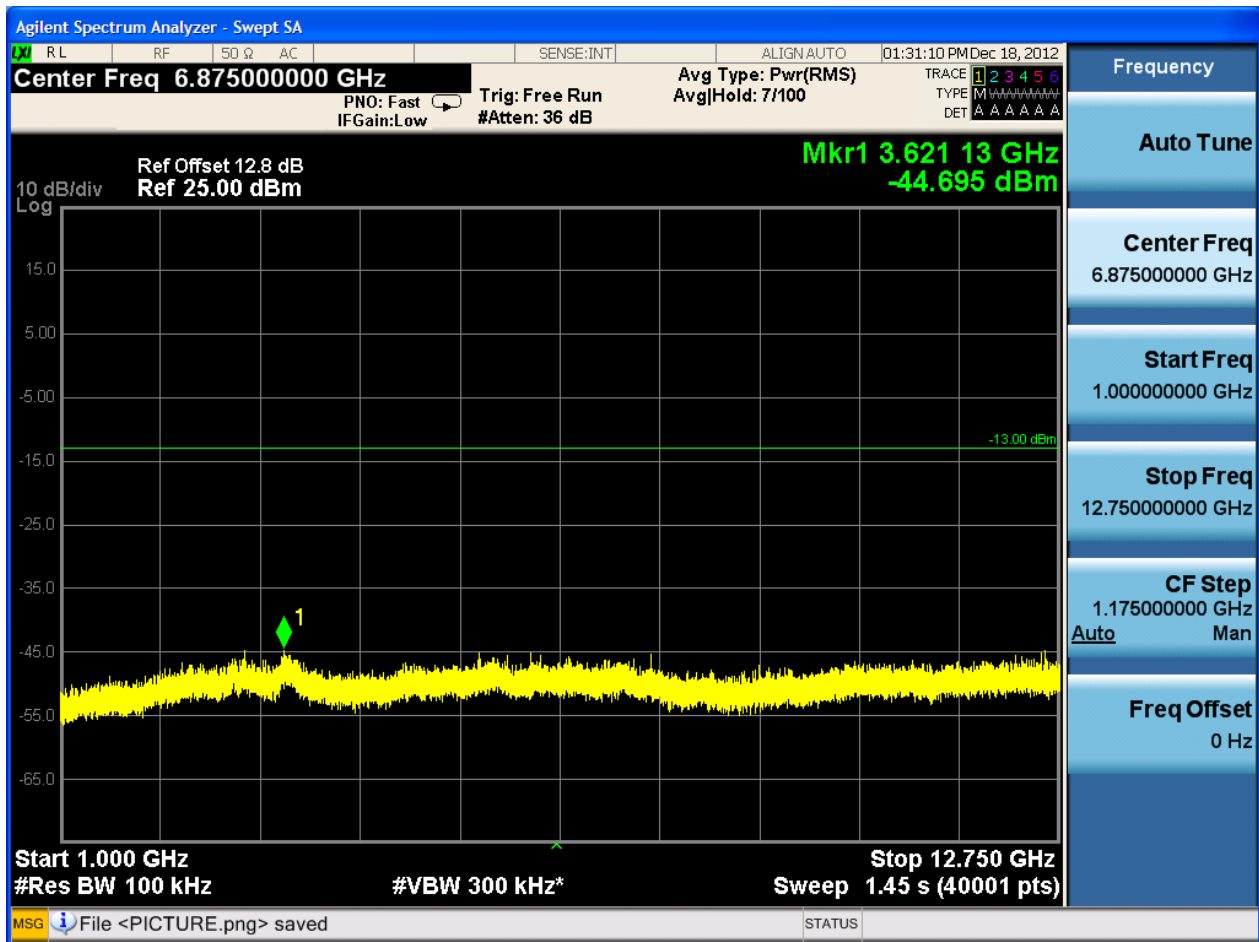


4.1.1.1.2 Test Channel = MCH

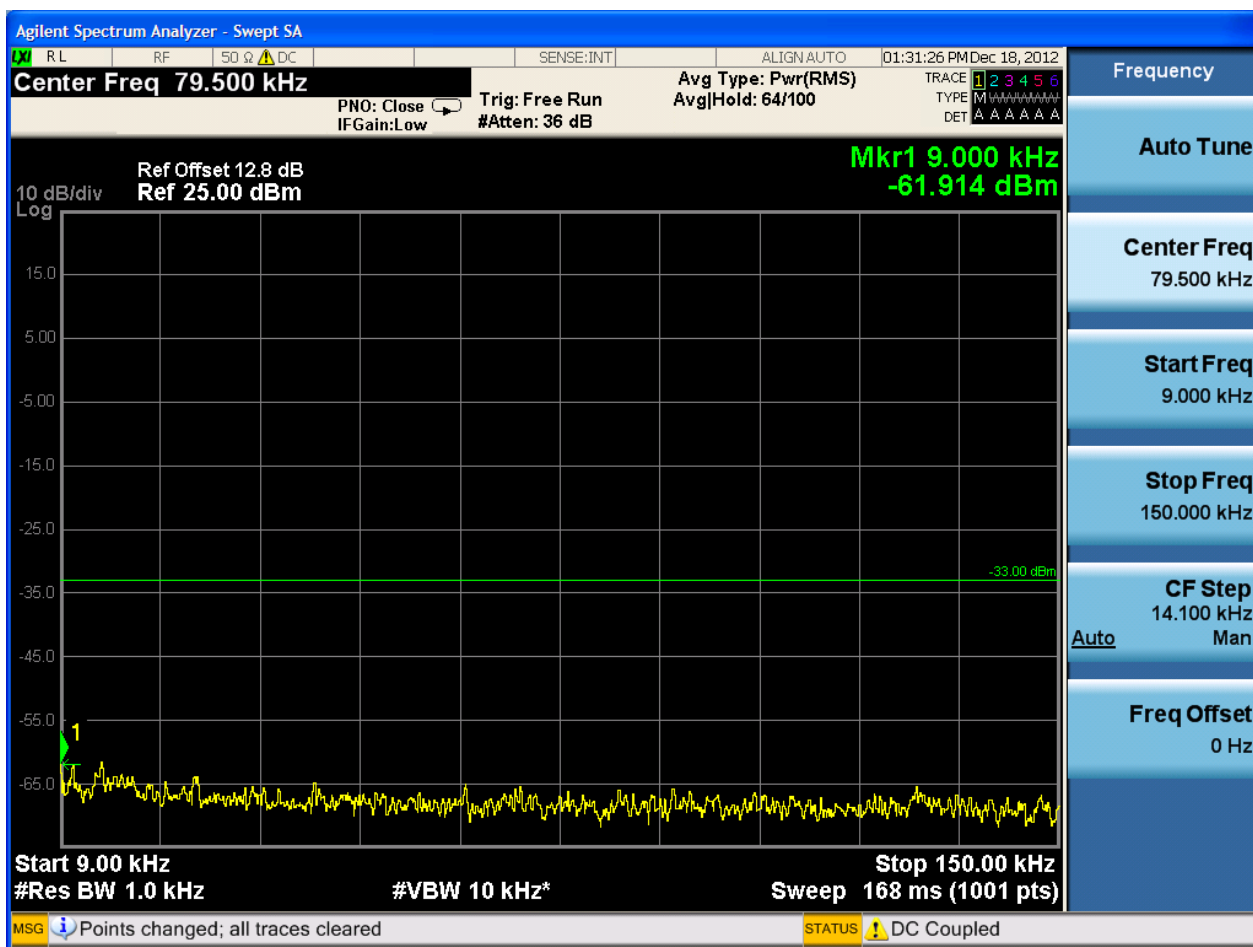


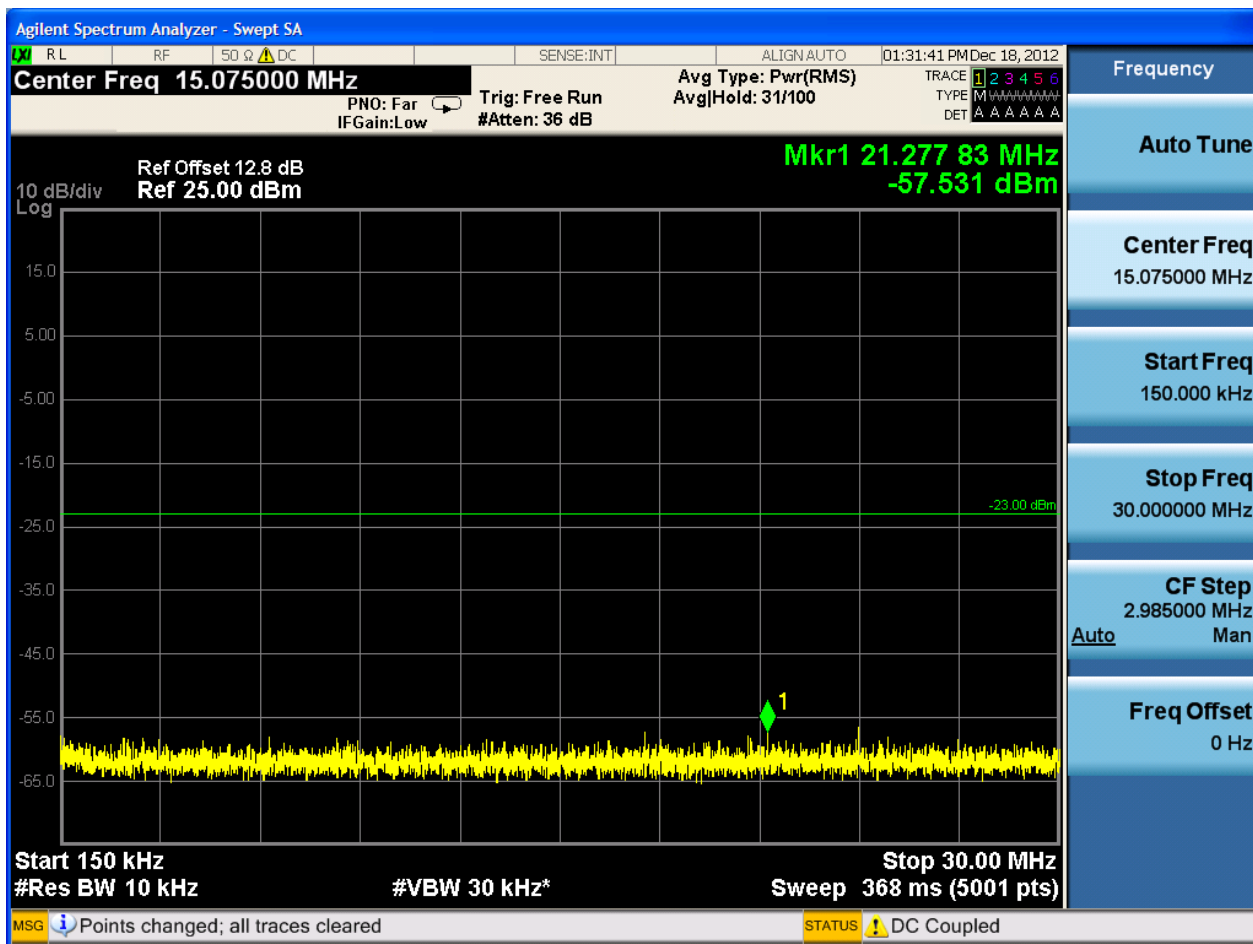


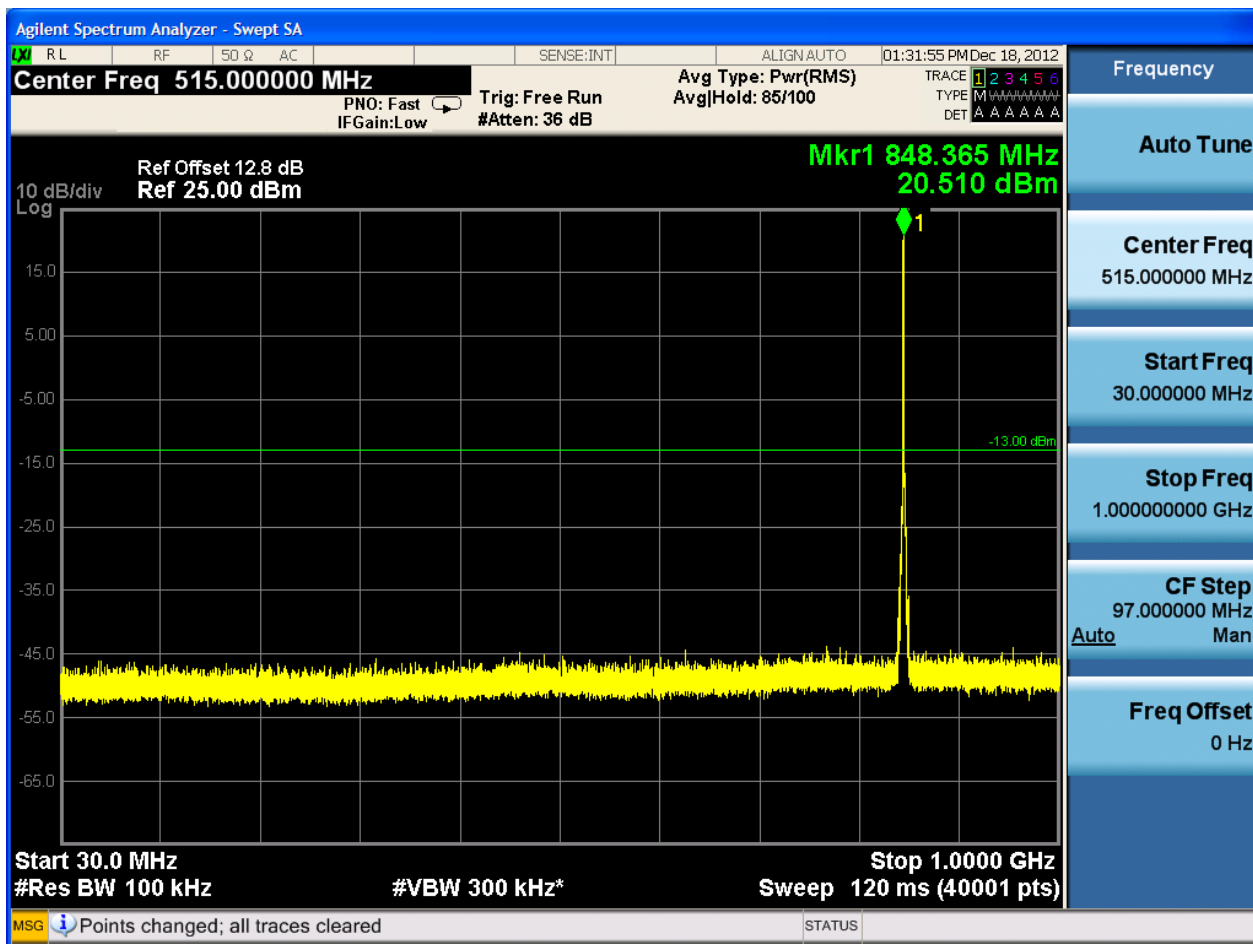


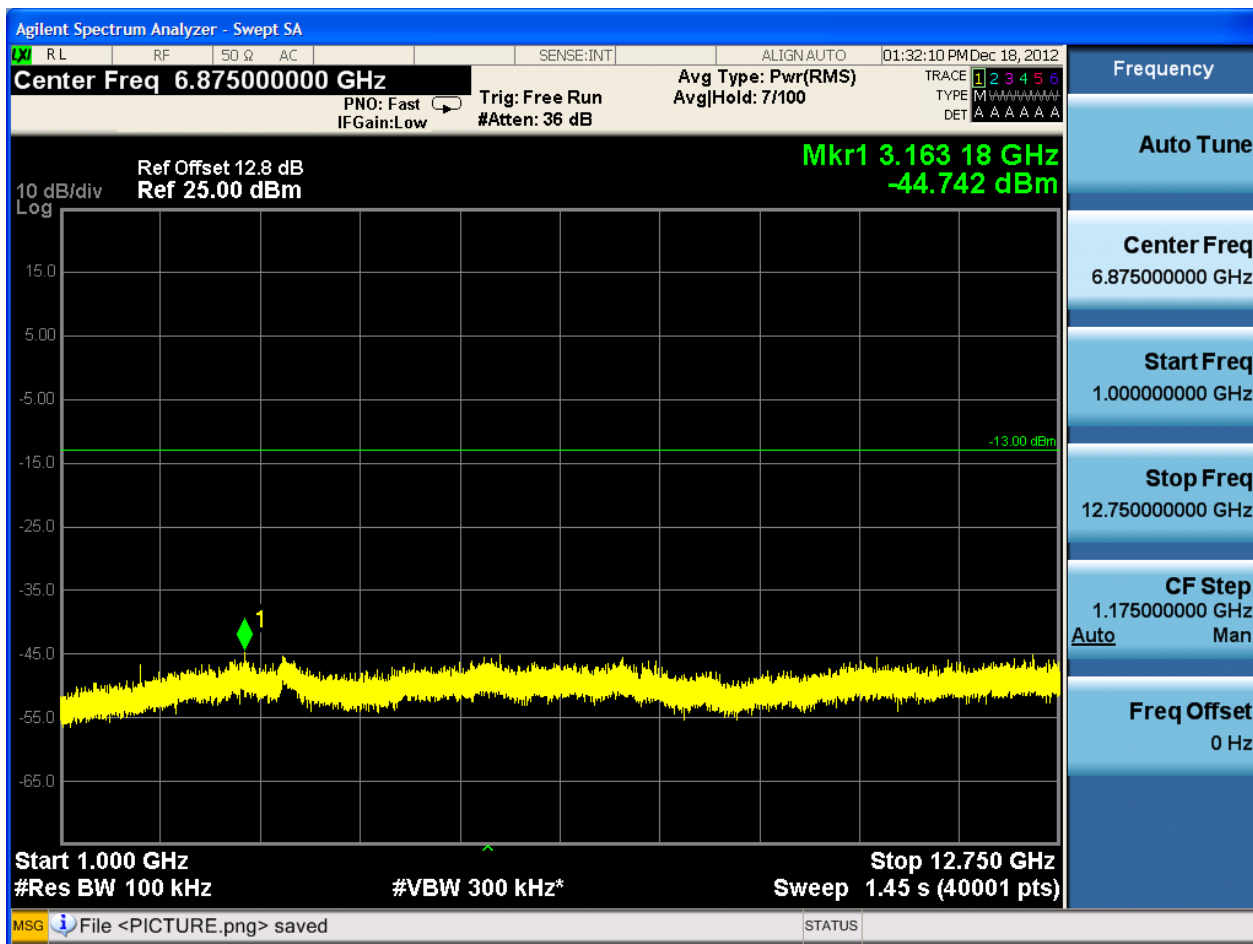


4.1.1.1.3 Test Channel = HCH



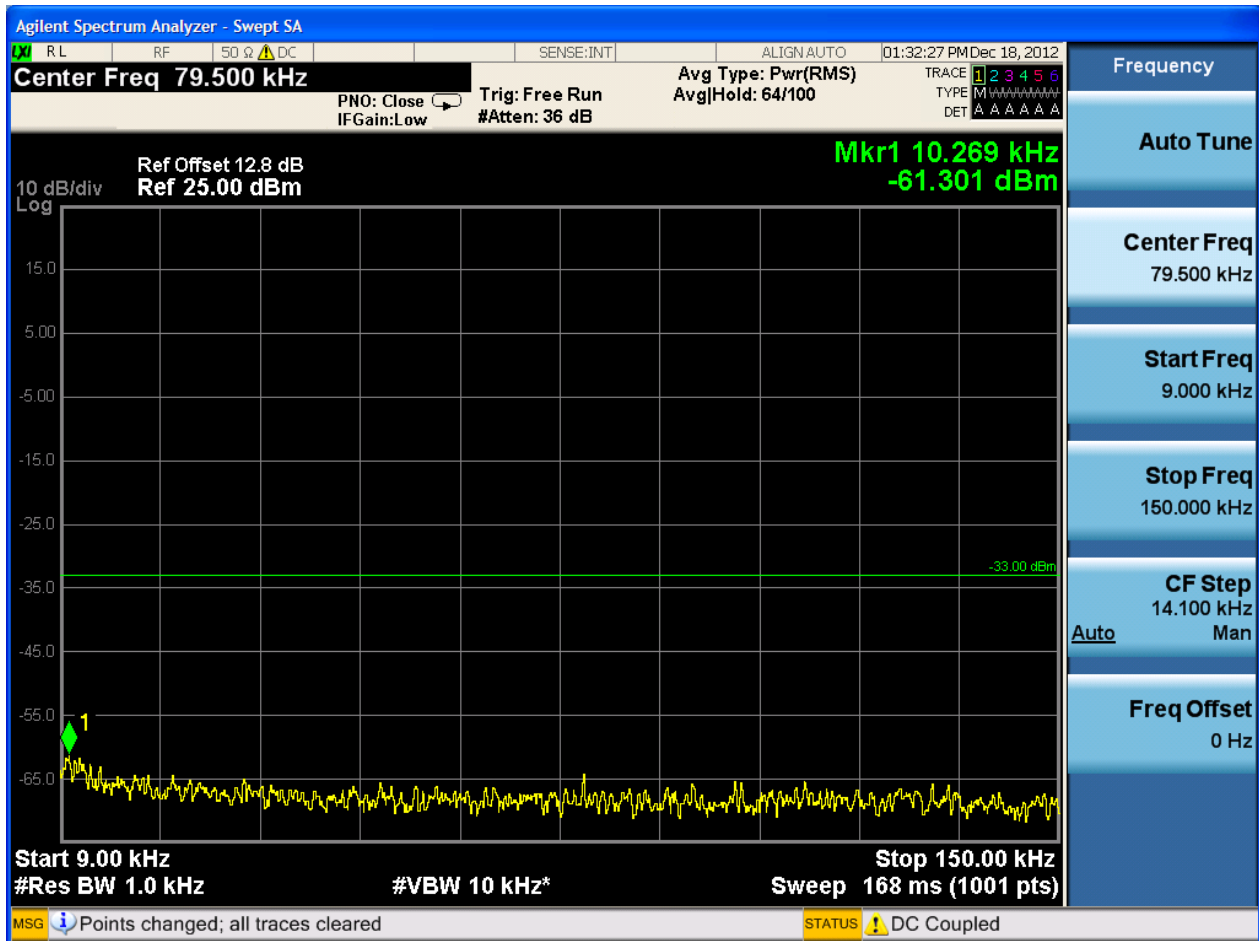


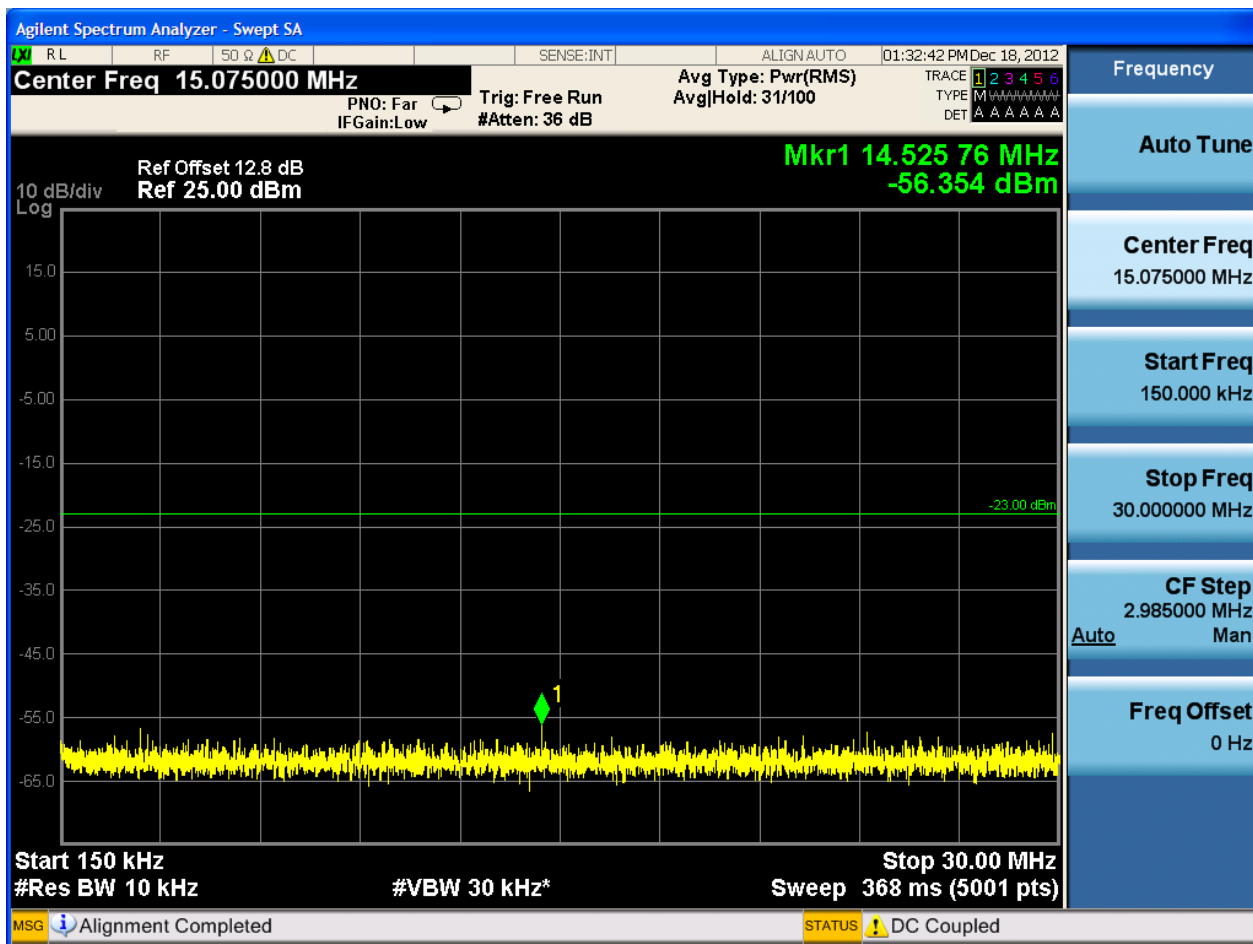


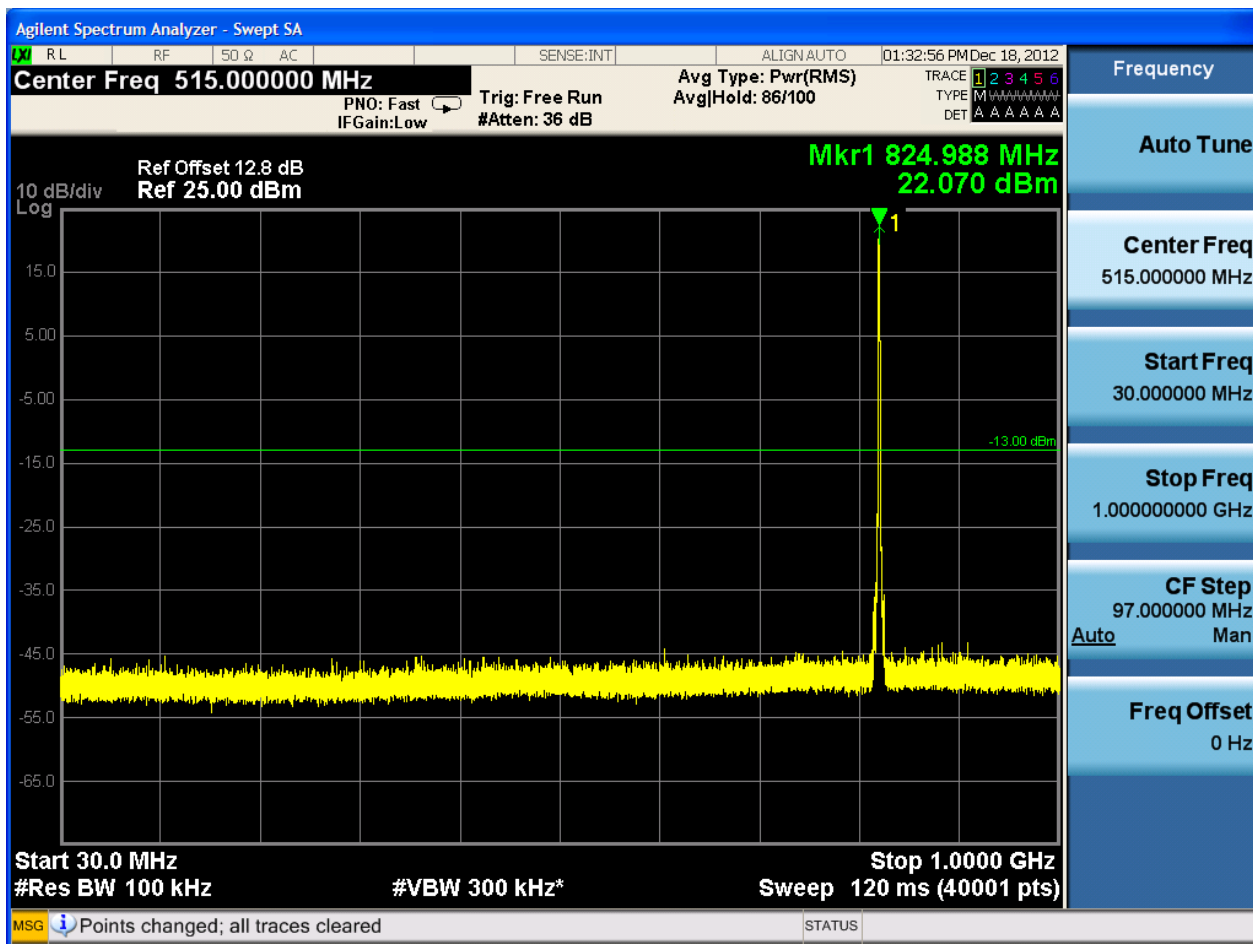


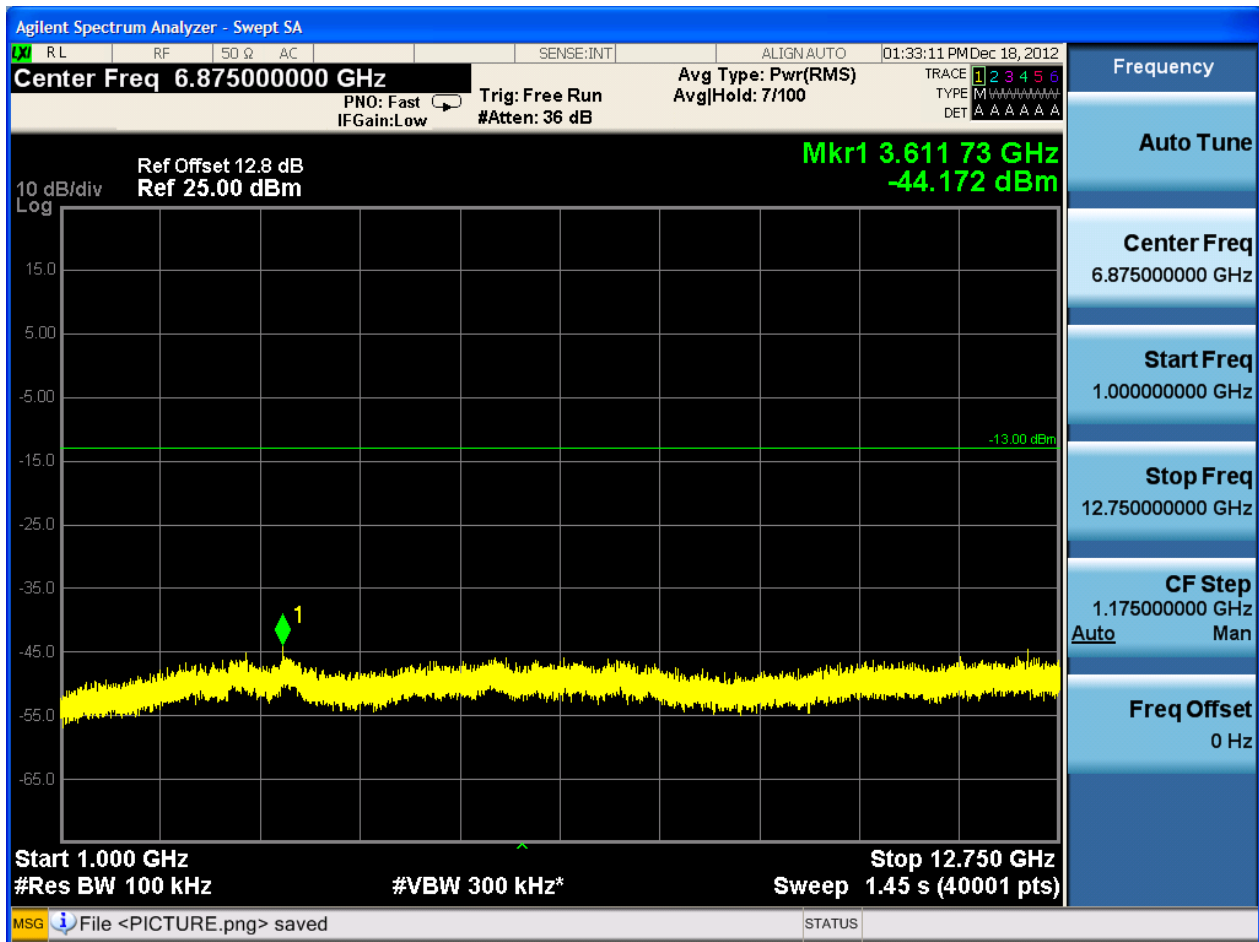
4.1.1.2 Test Mode = CDMA/1X/TM3

4.1.1.2.1 Test Channel = LCH

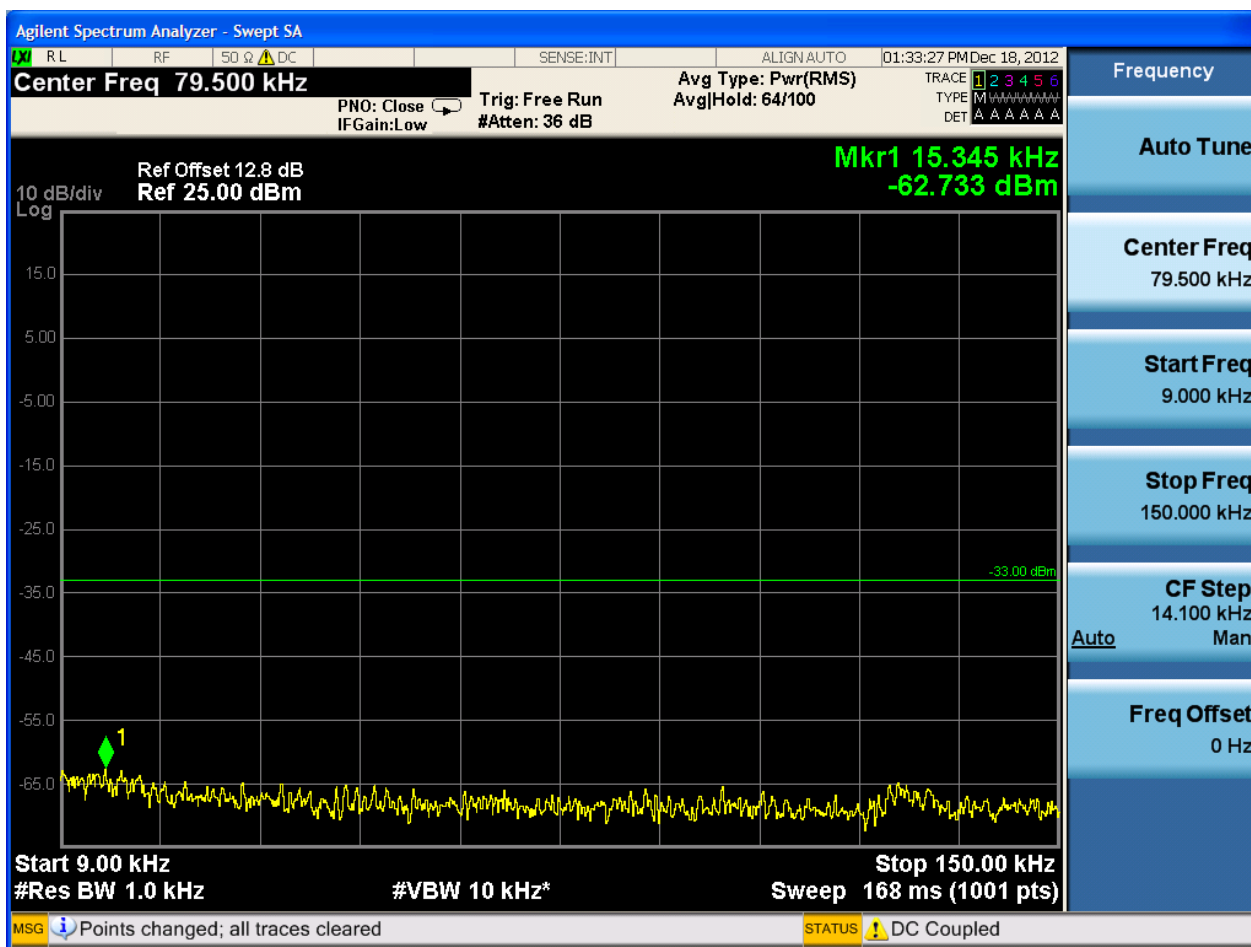


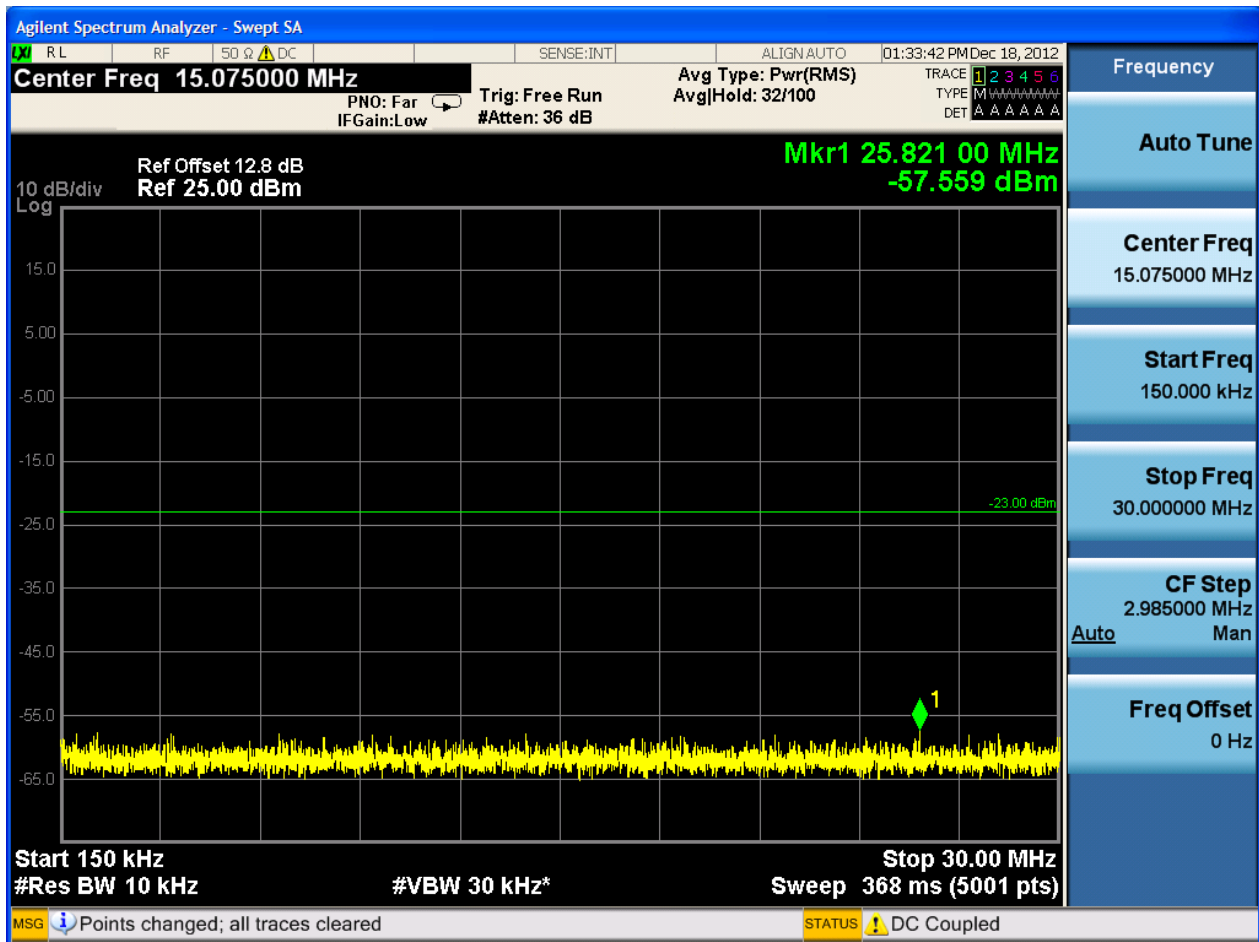


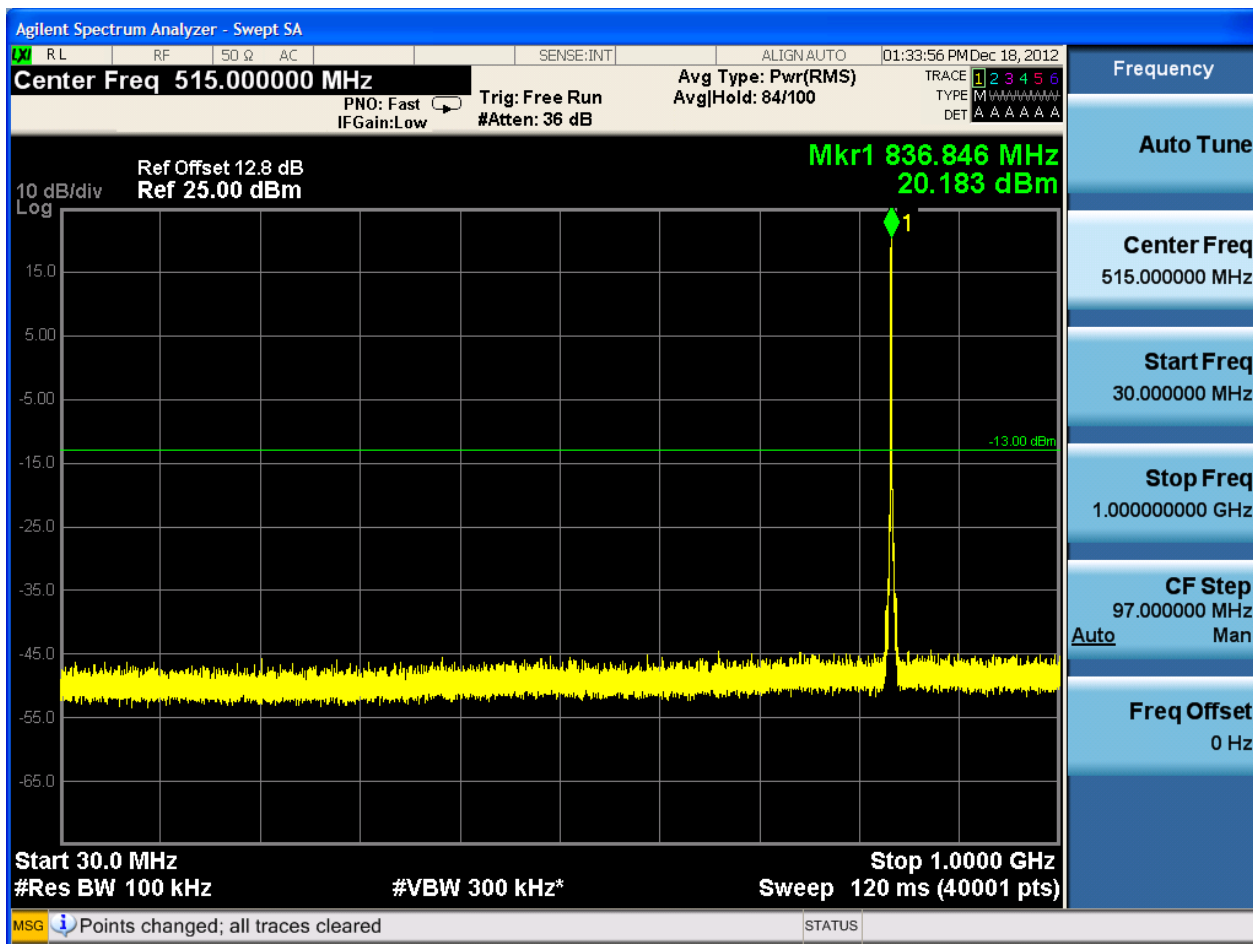


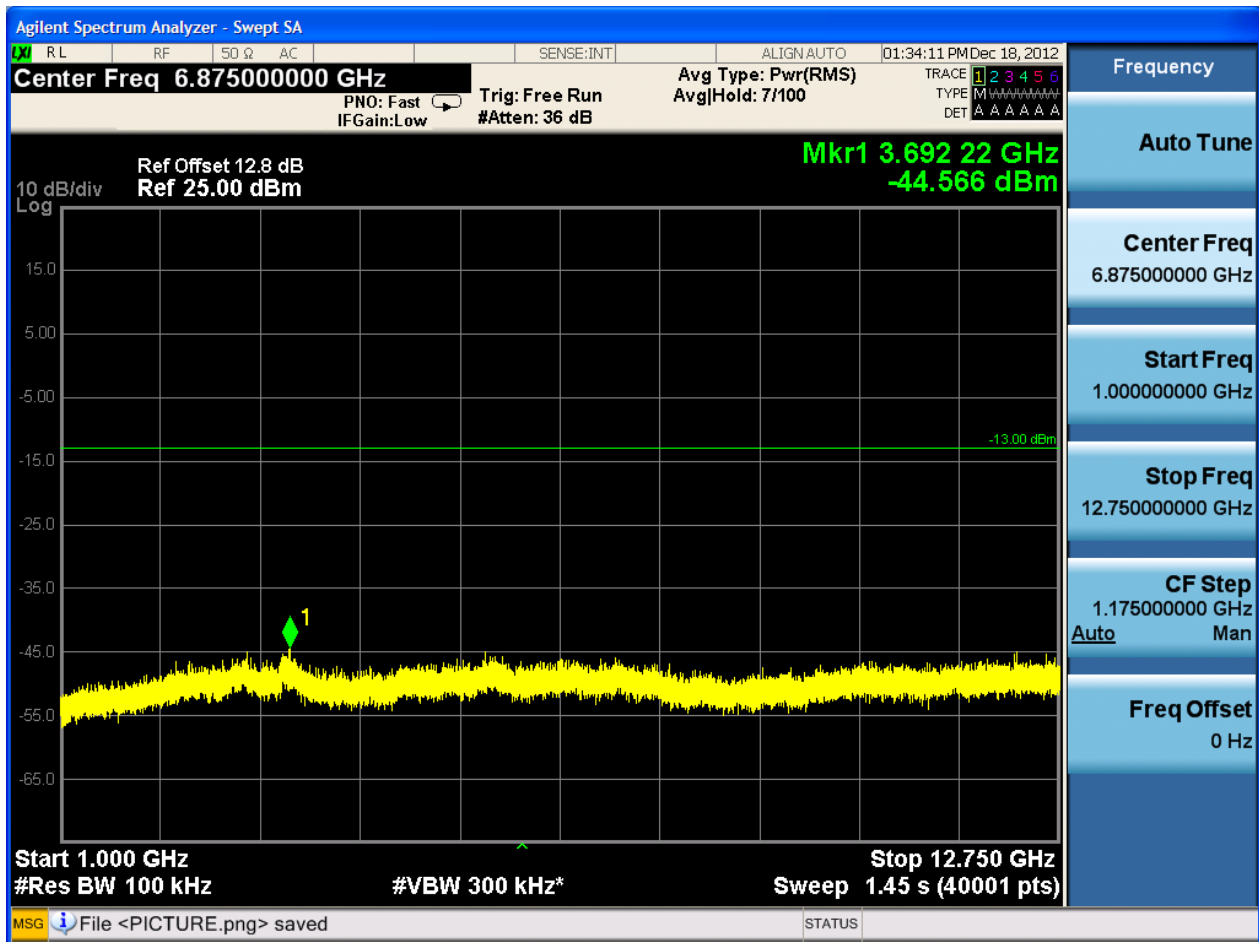


4.1.1.2.2 Test Channel = MCH

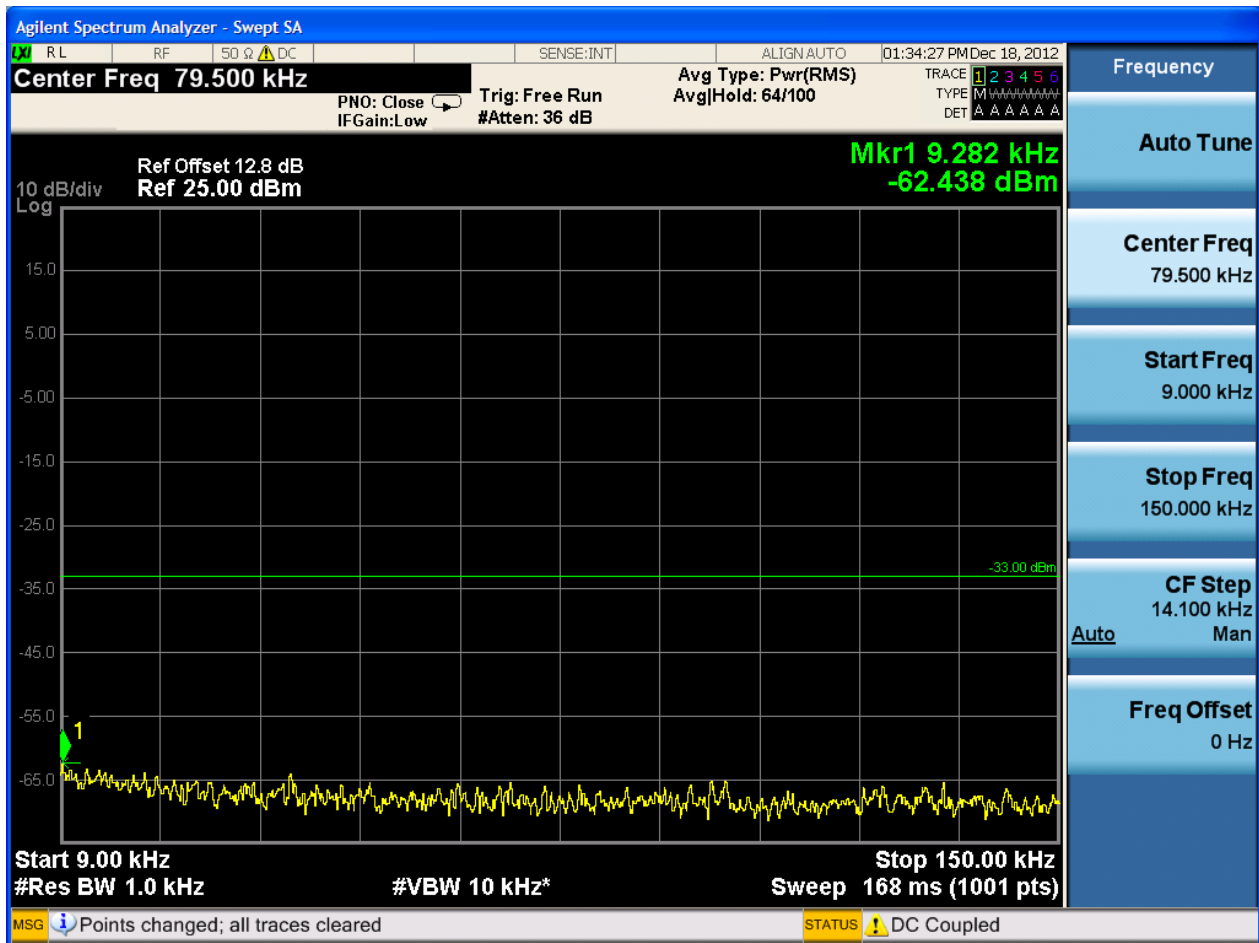


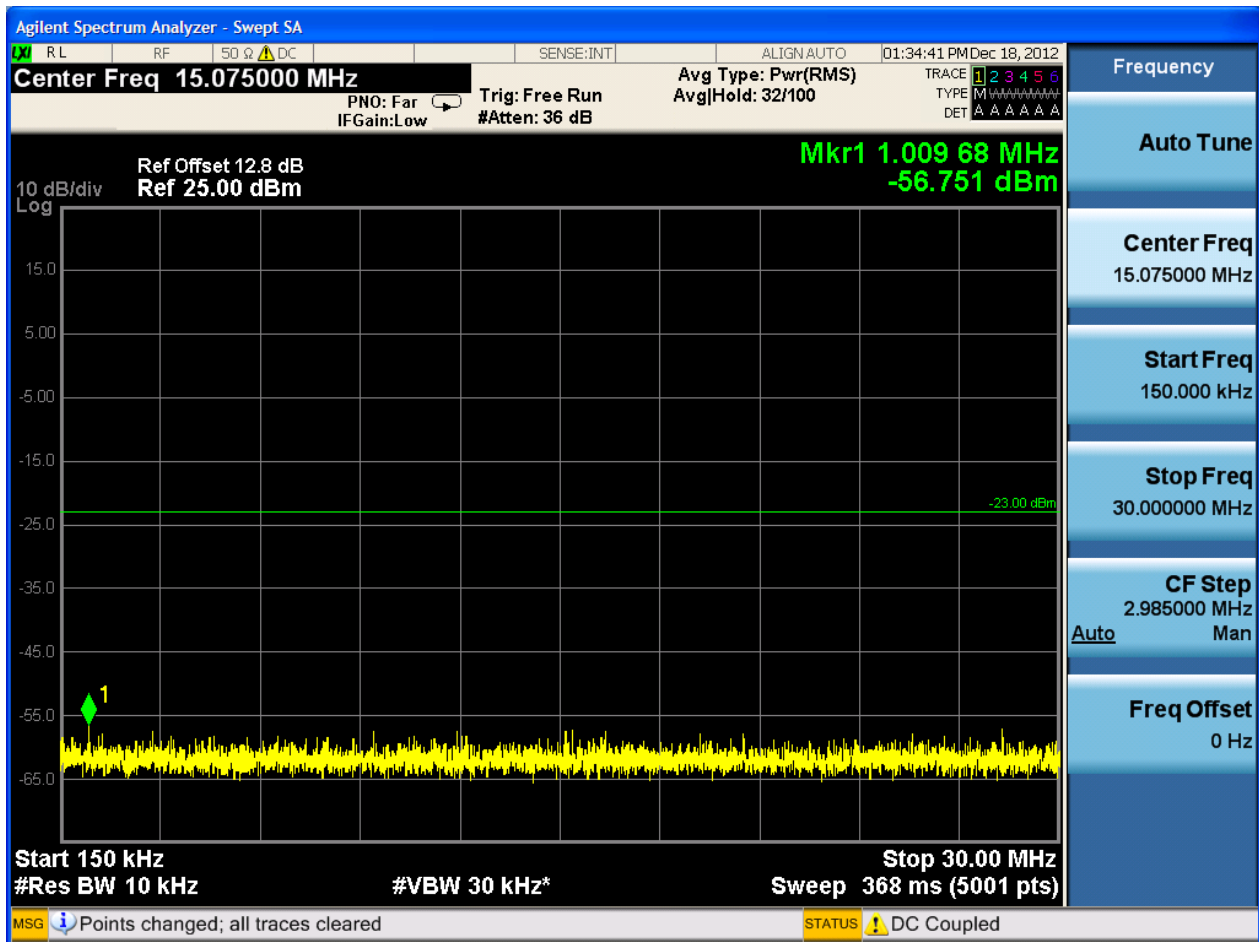


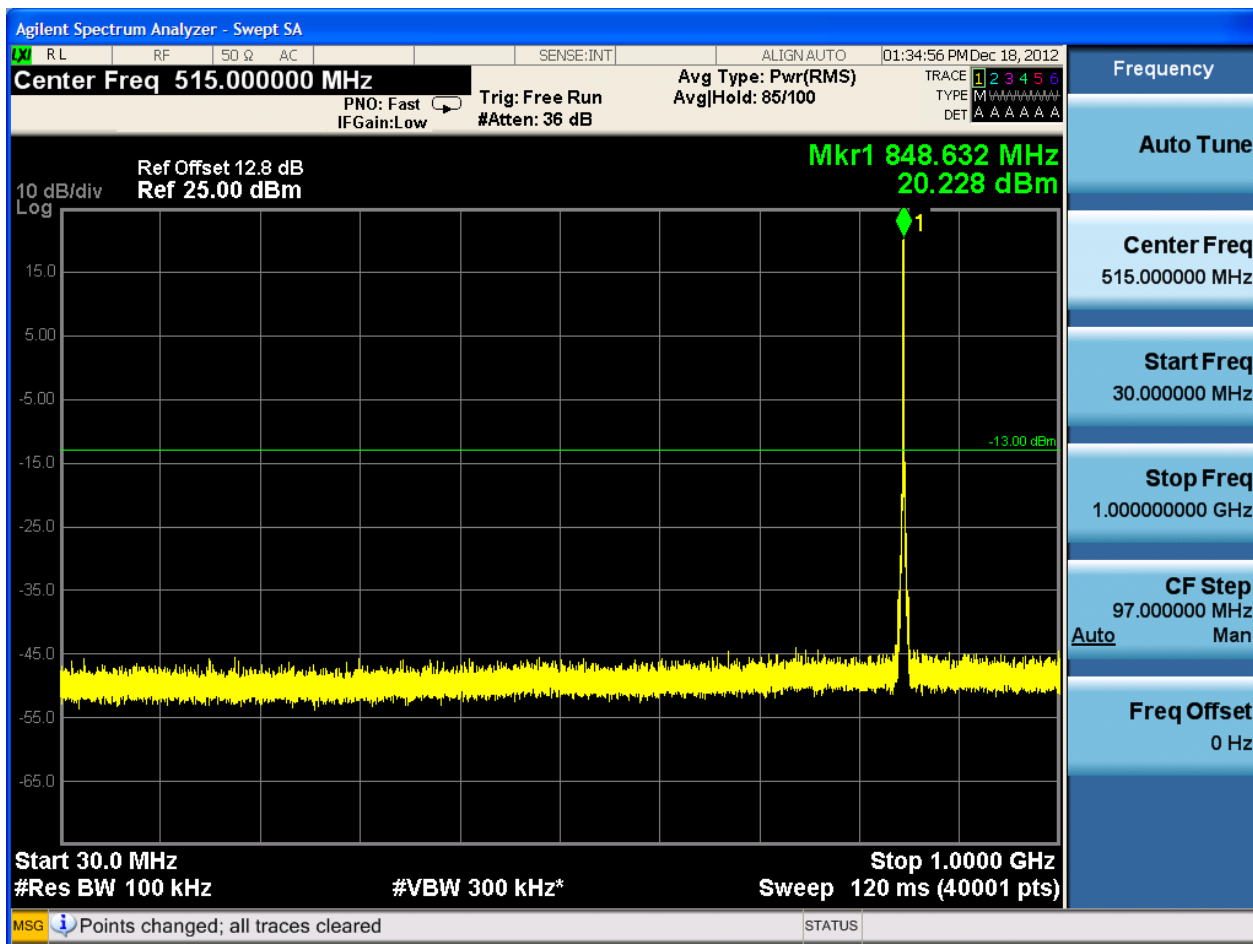


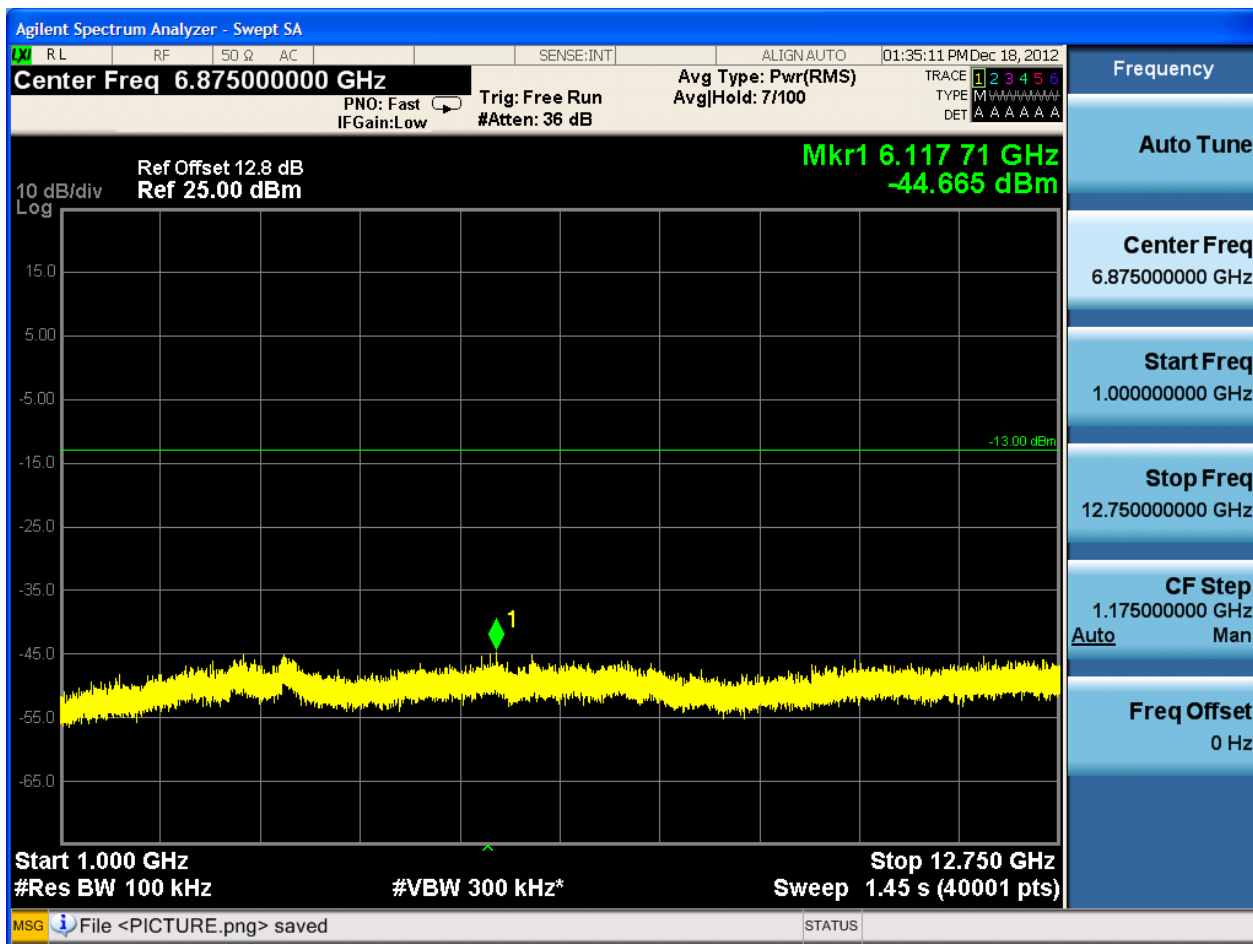


4.1.1.2.3 Test Channel = HCH





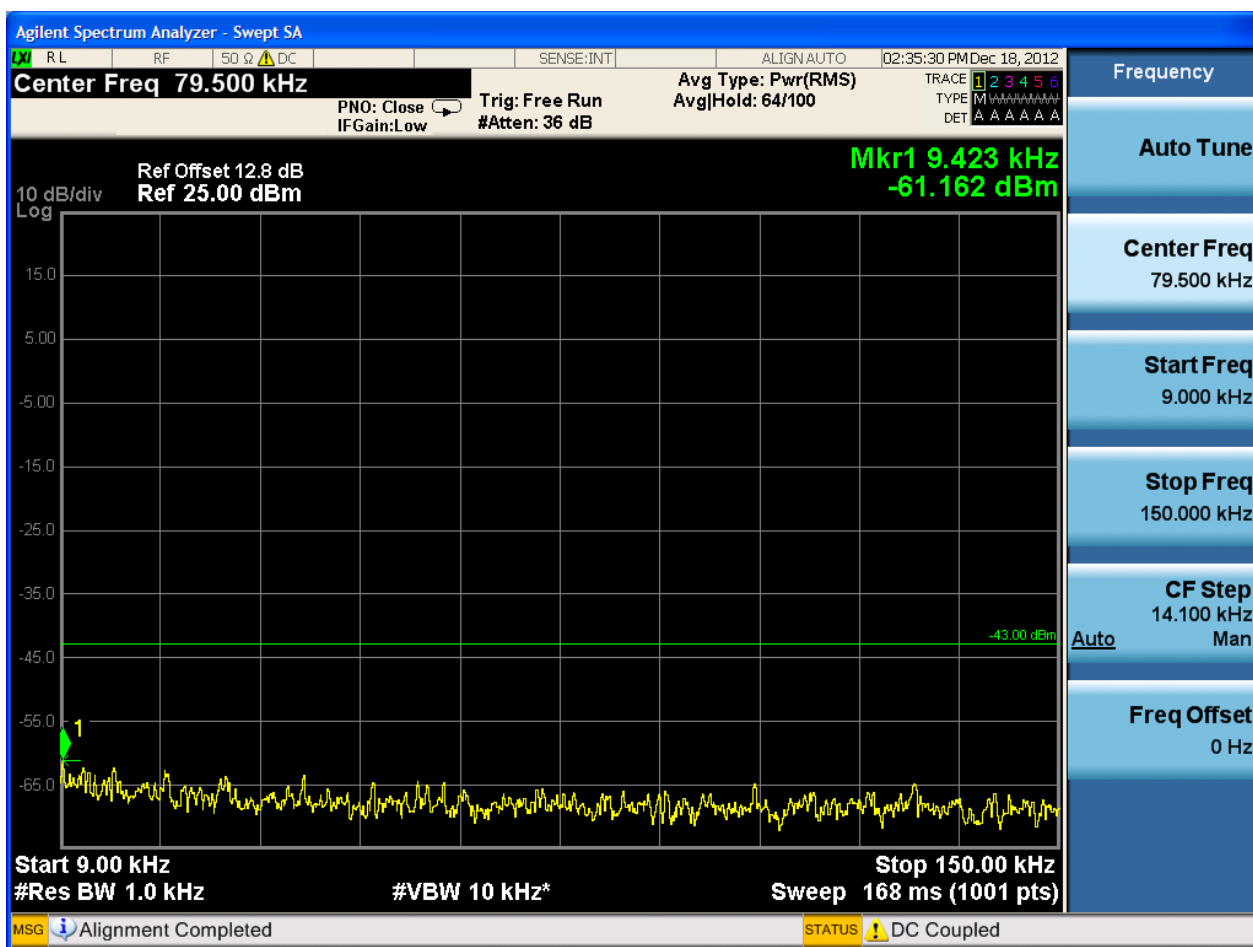


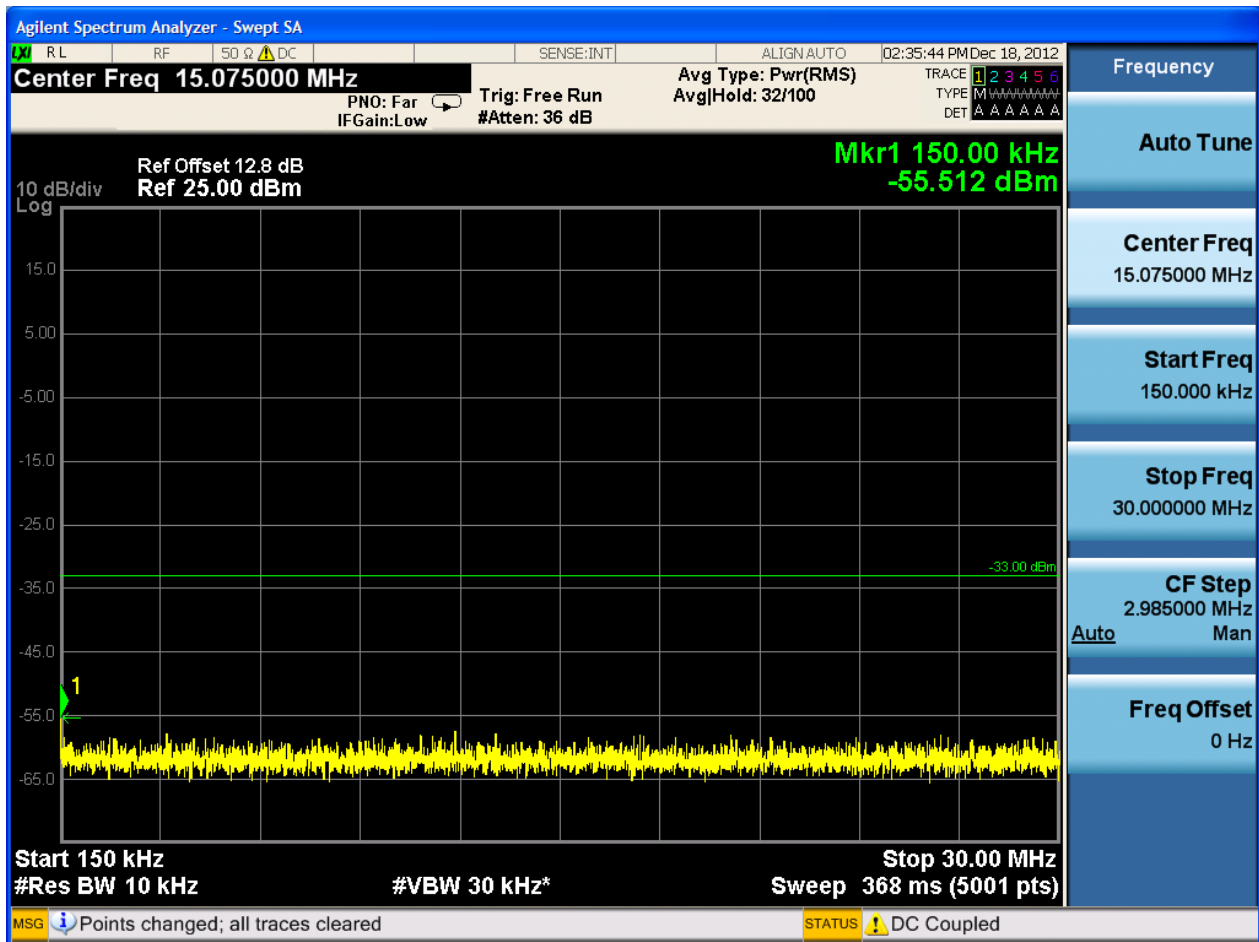


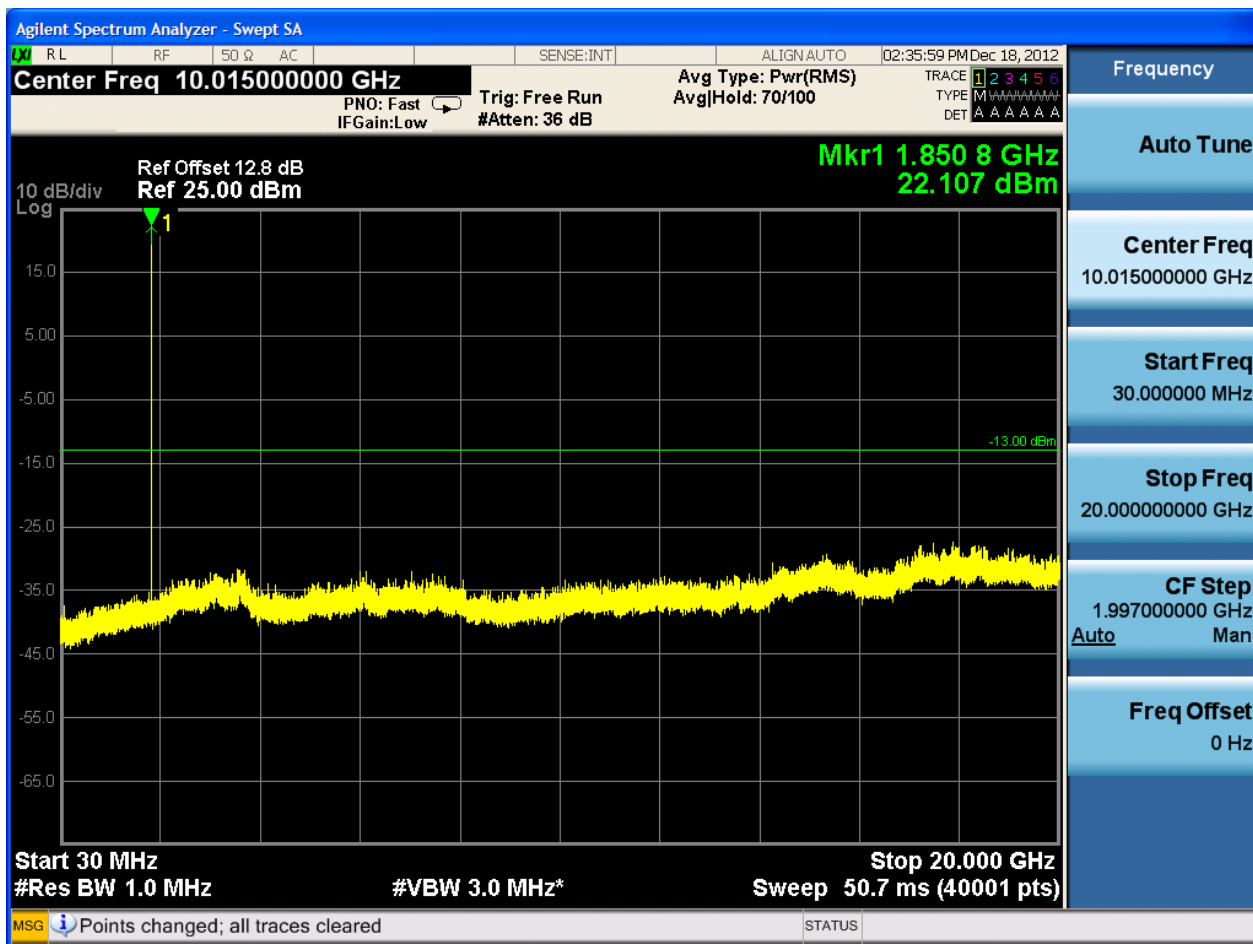
4.1.2 Test Band = BC1

4.1.2.1 Test Mode = CDMA/1X/TM1

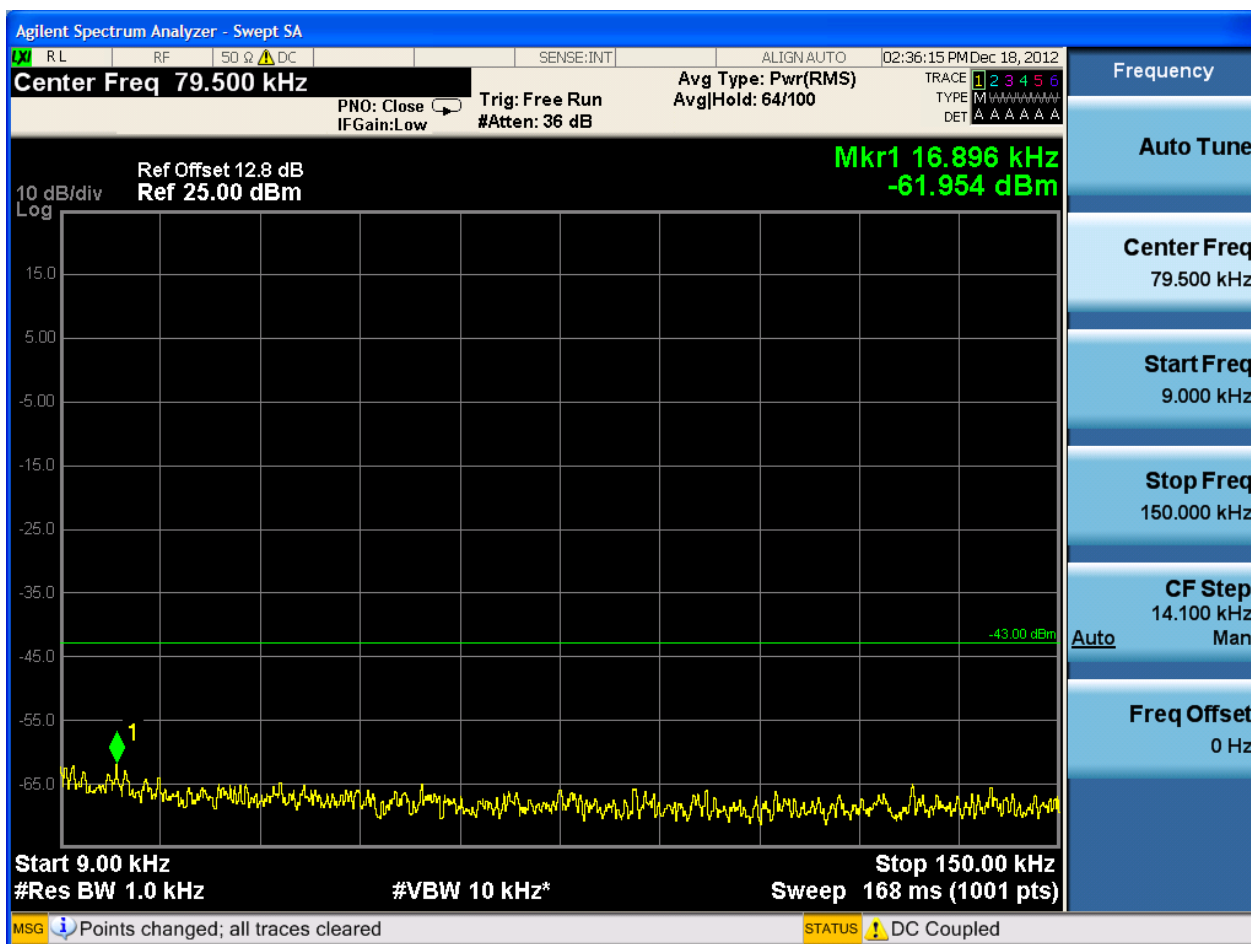
4.1.2.1.1 Test Channel = LCH

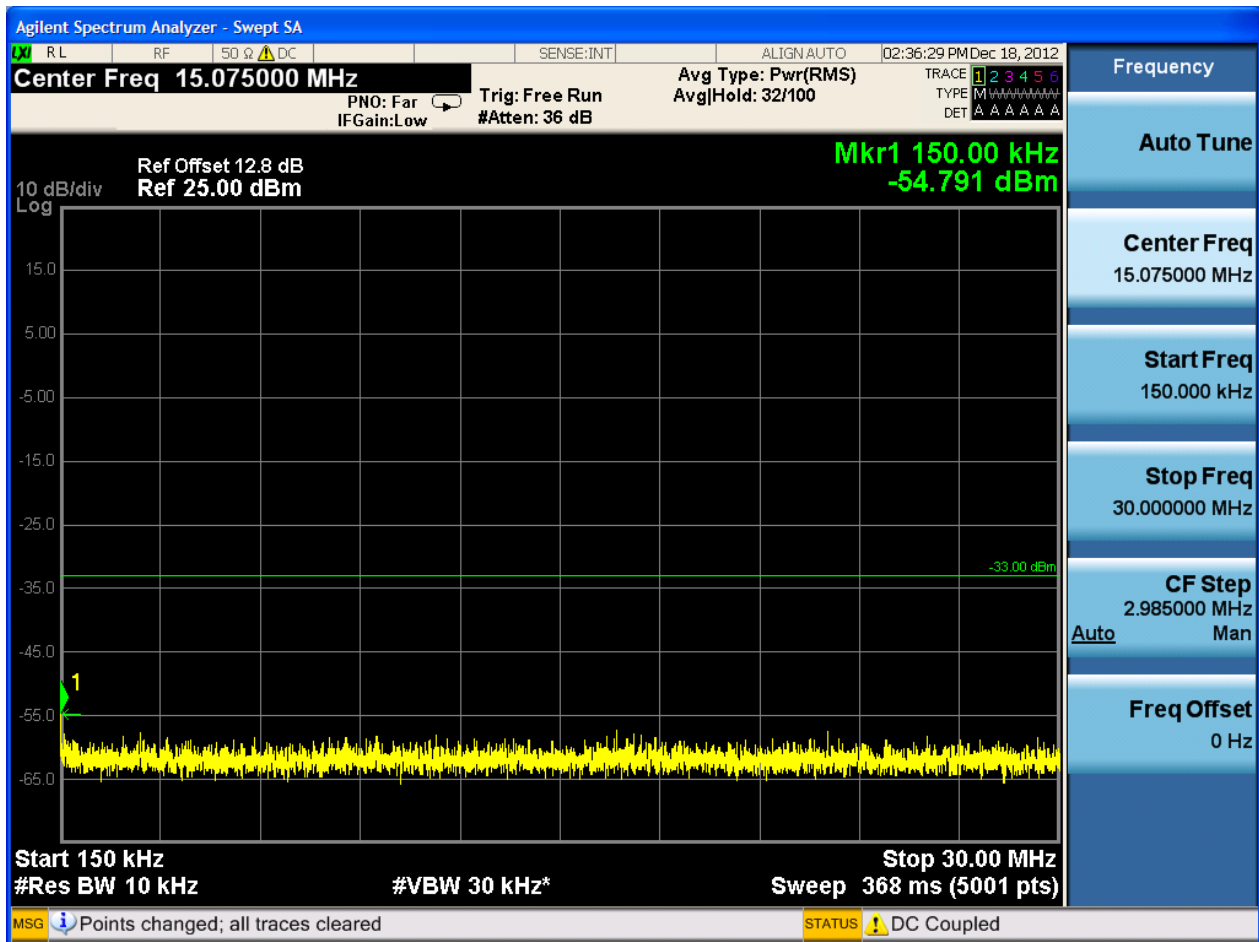


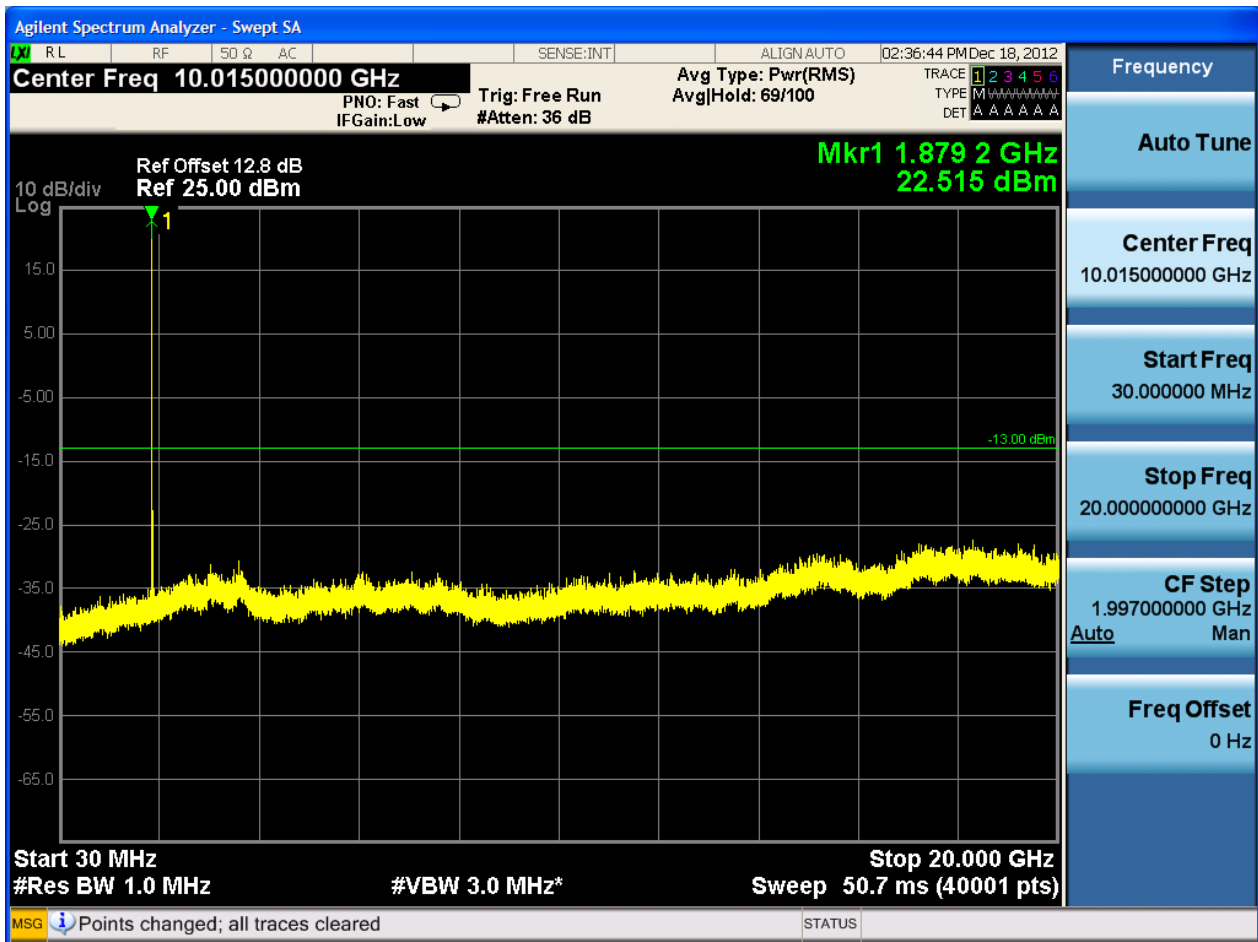




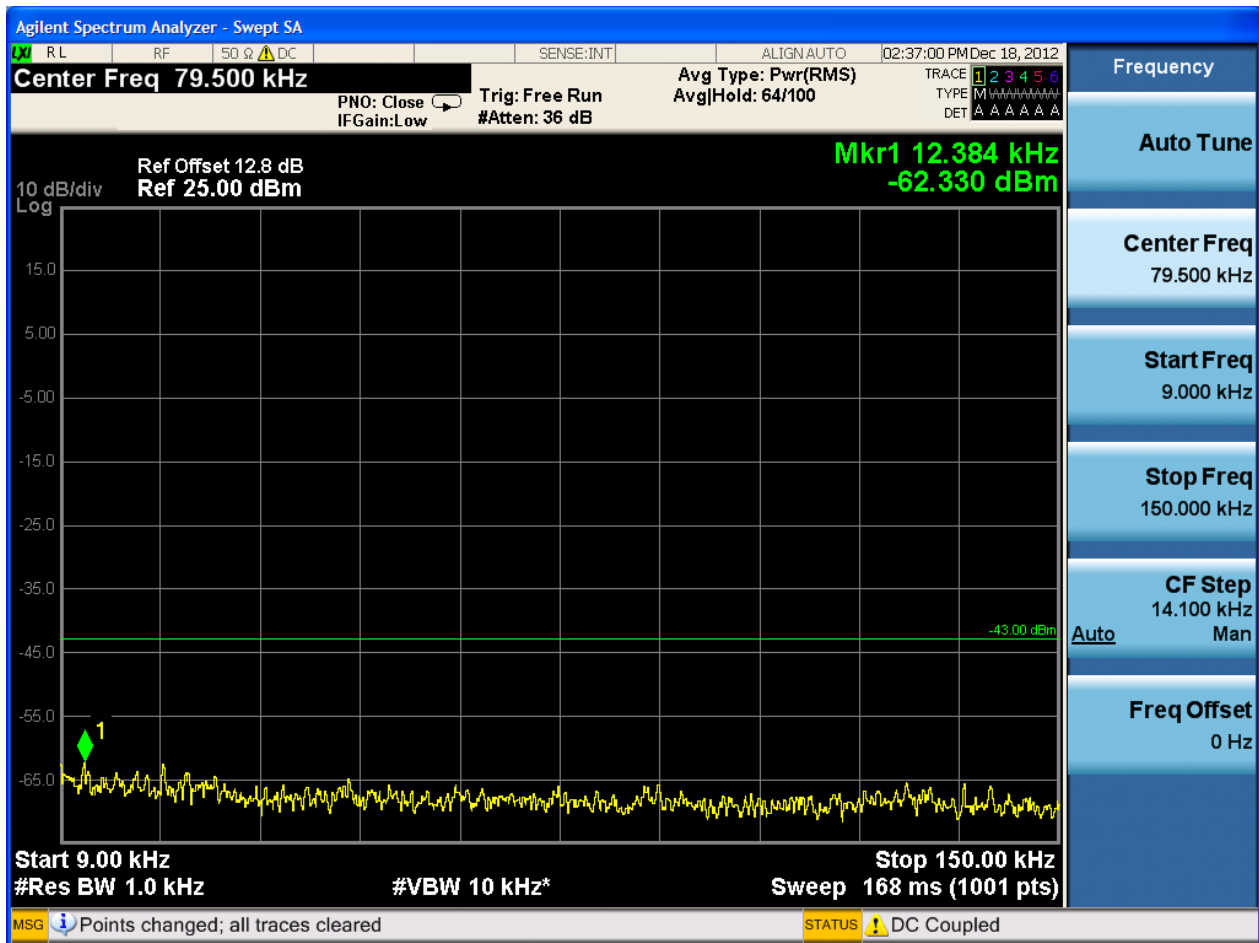
4.1.2.1.2 Test Channel = MCH

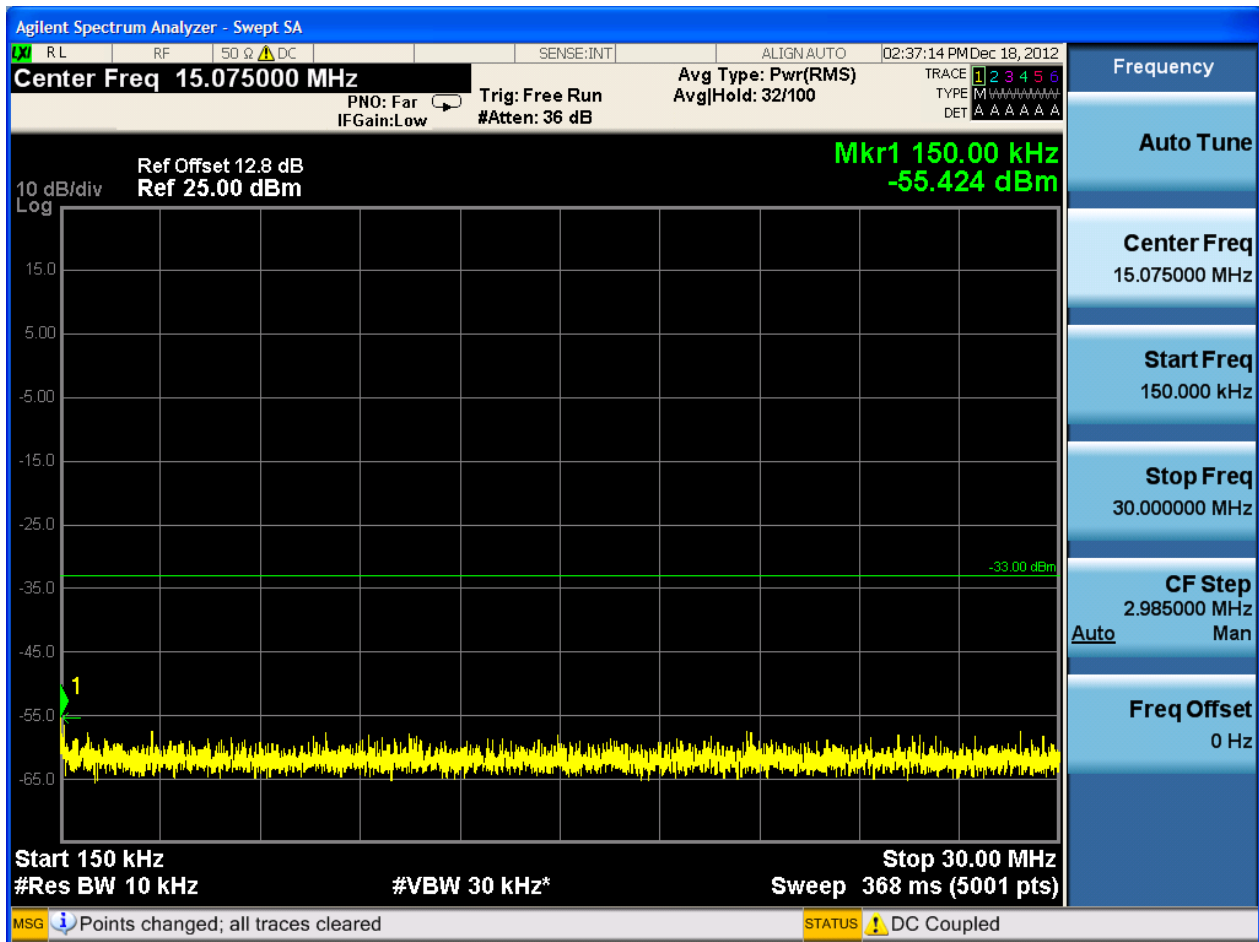


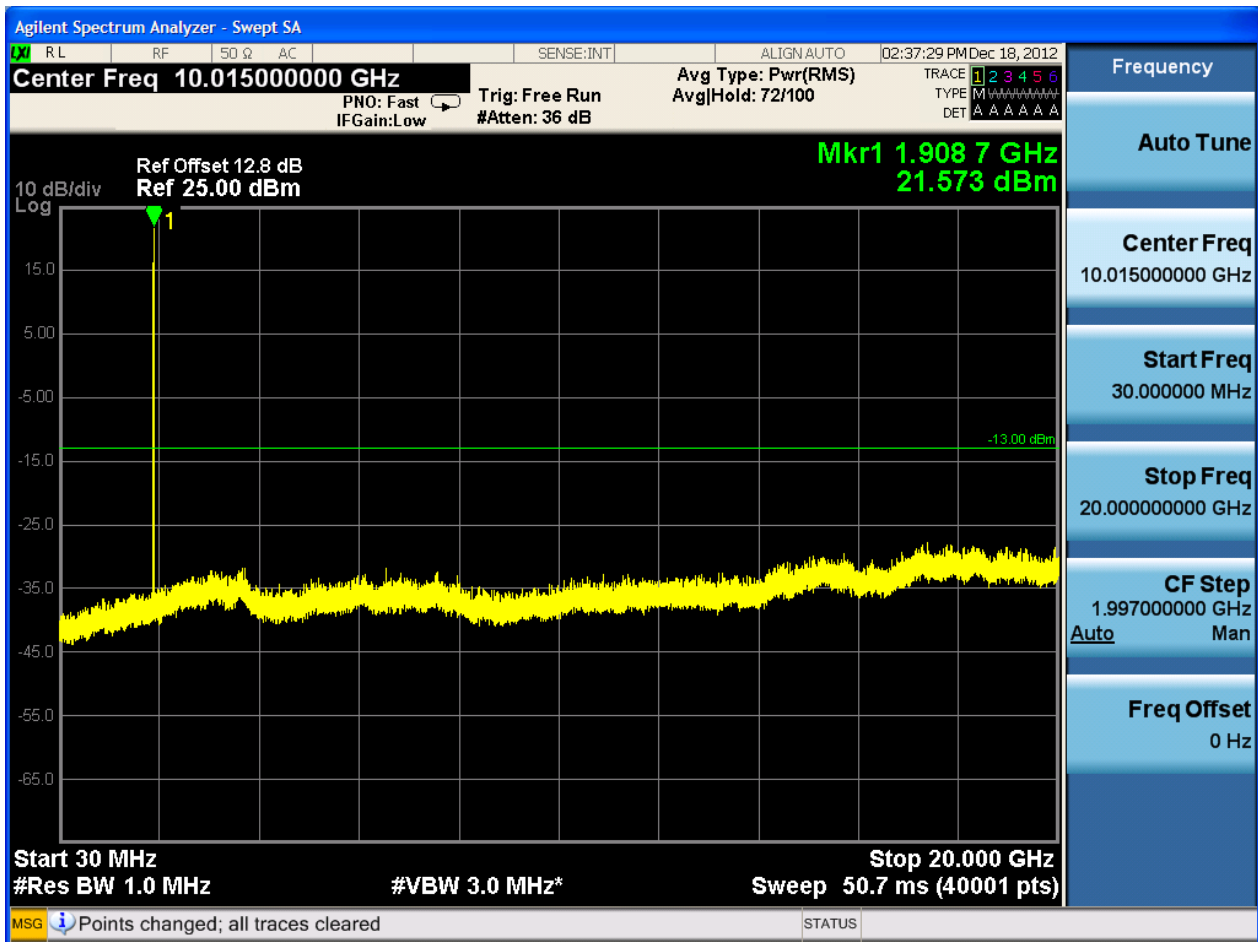




4.1.2.1.3 Test Channel = HCH

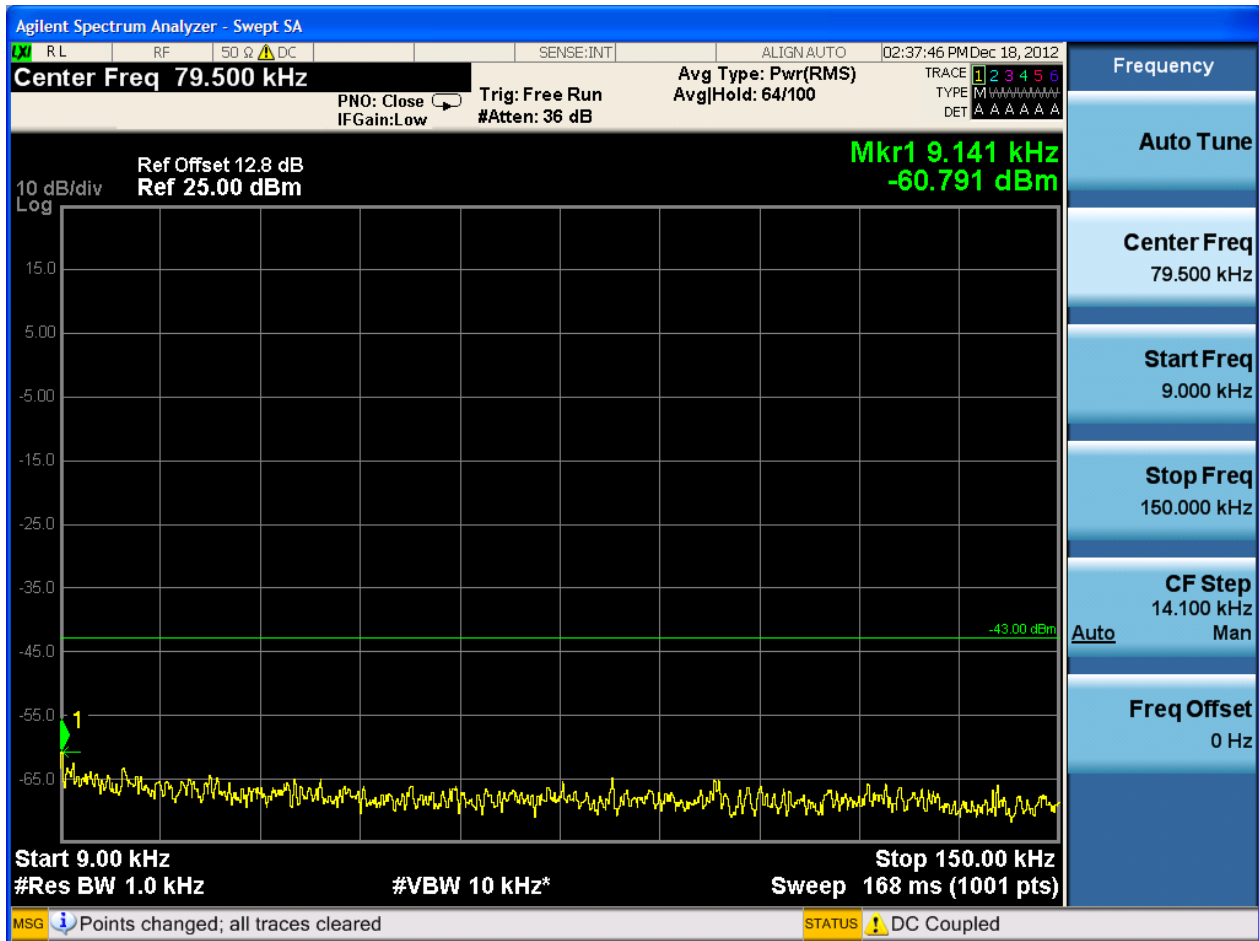


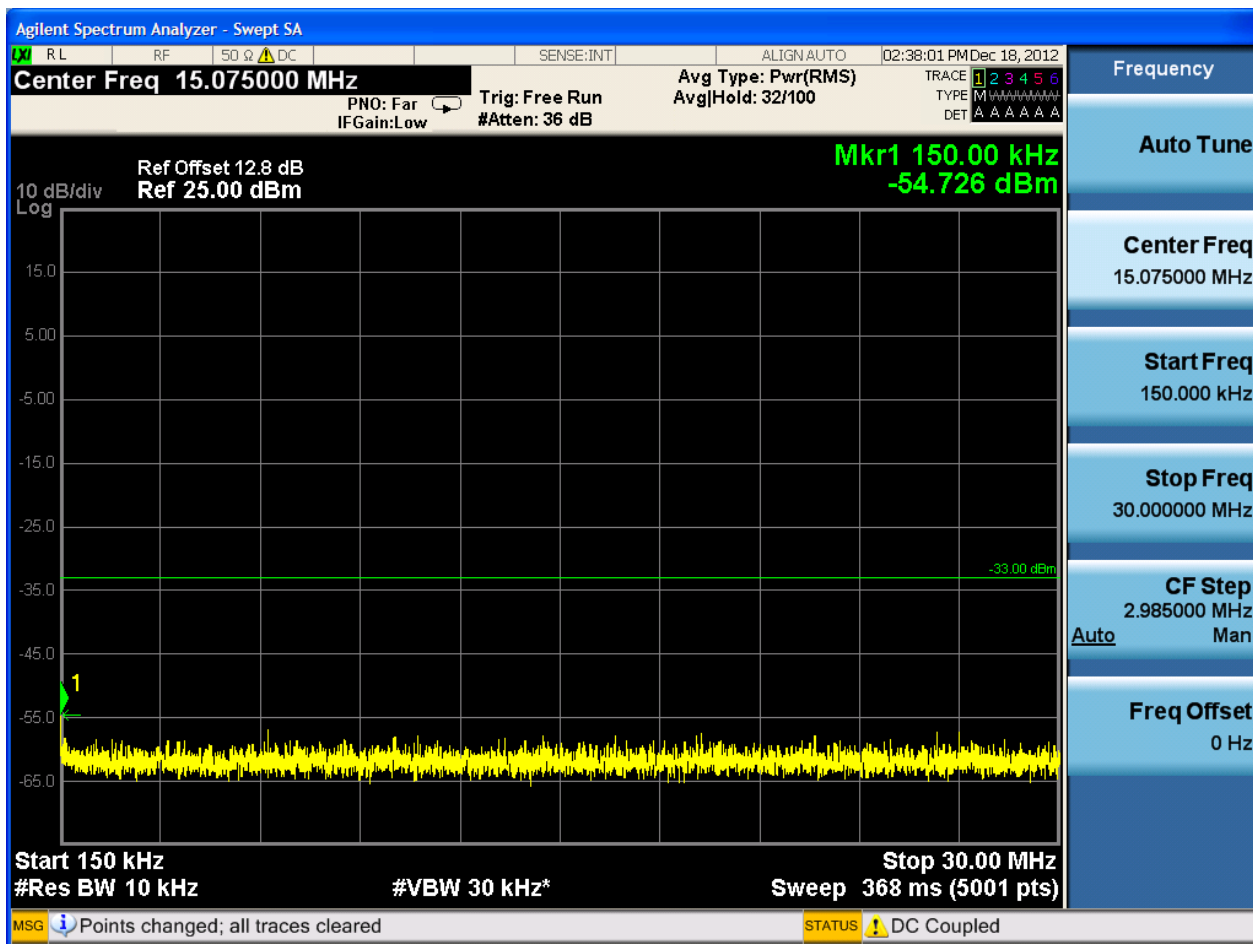


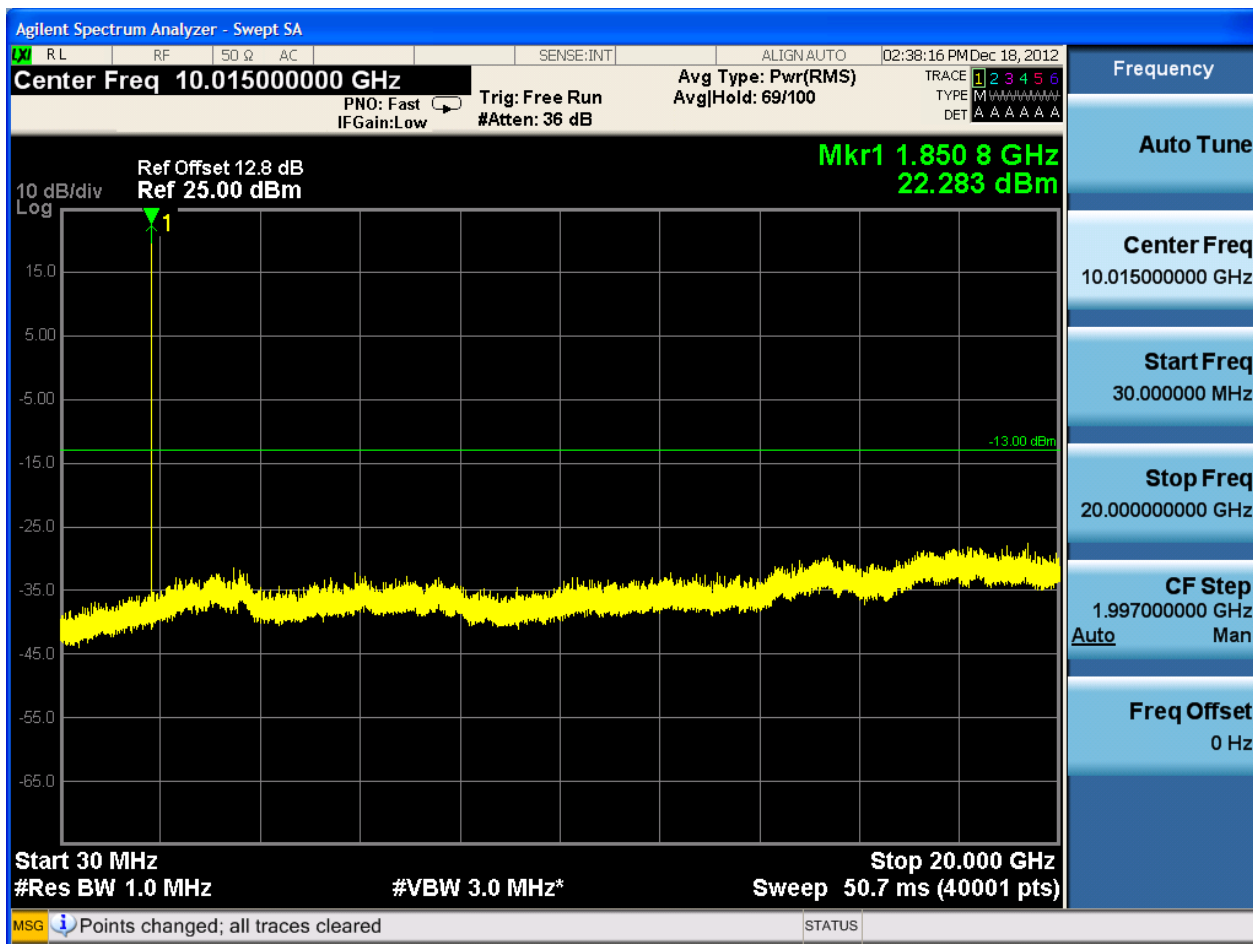


4.1.2.2 Test Mode = CDMA/1X/TM3

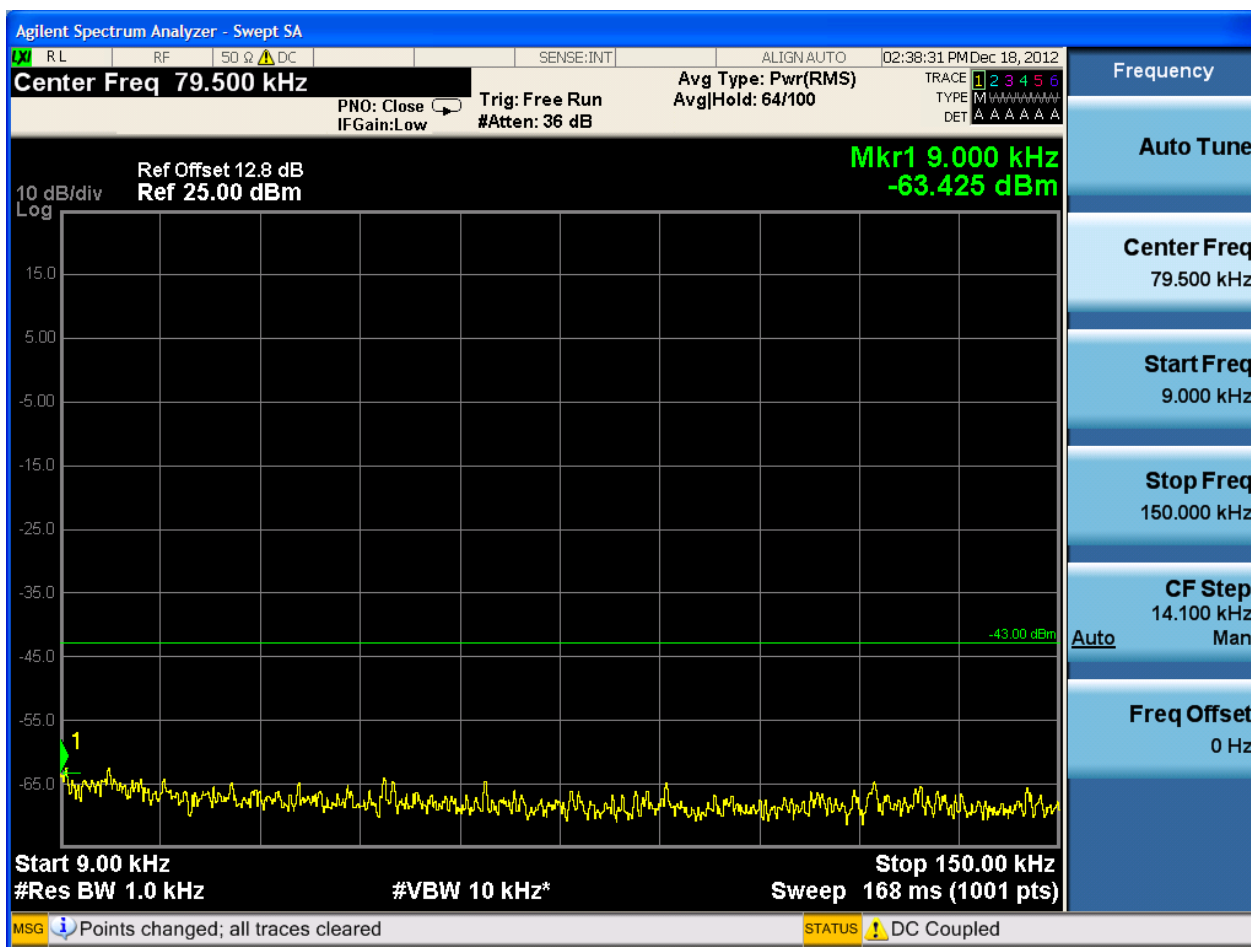
4.1.2.2.1 Test Channel = LCH

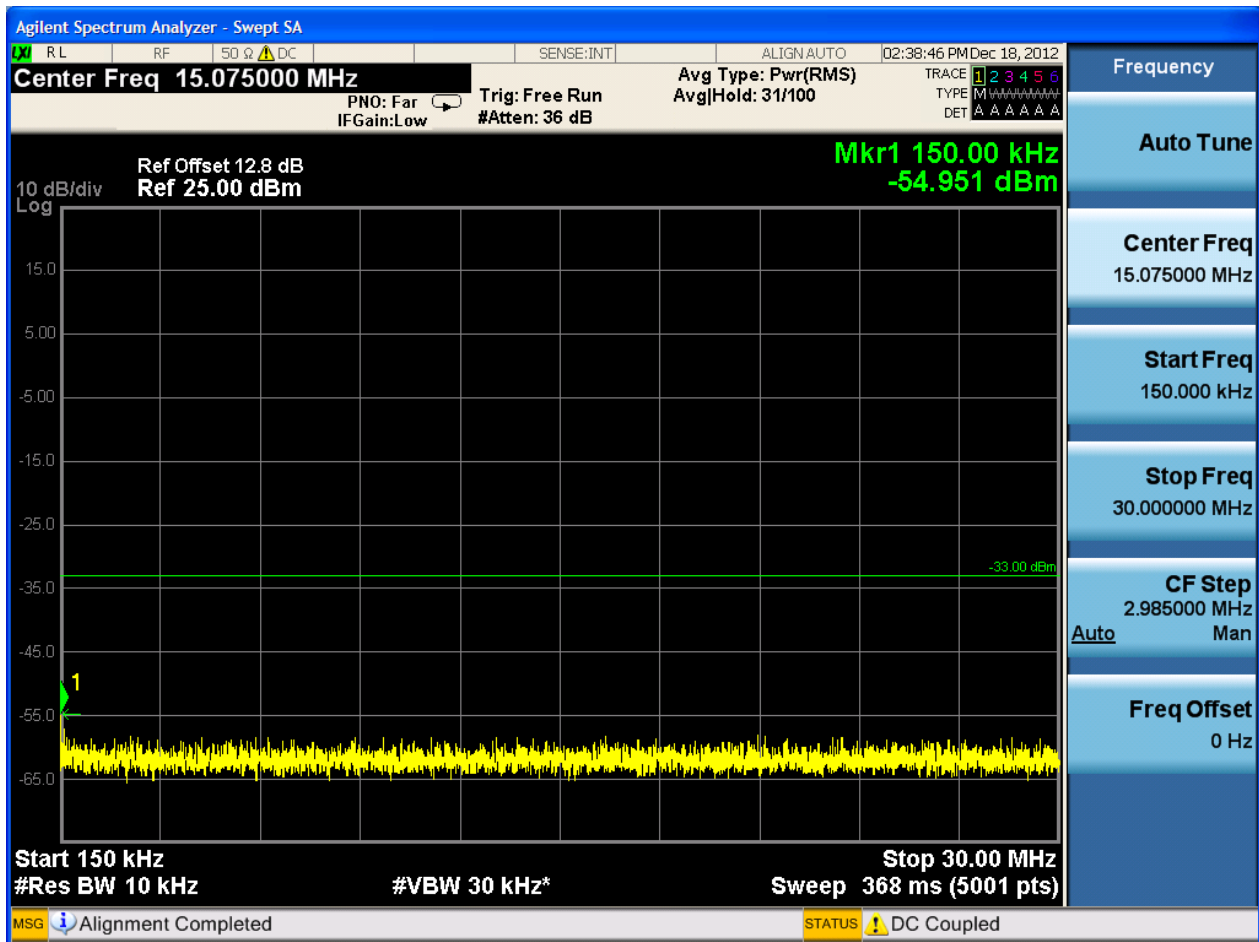


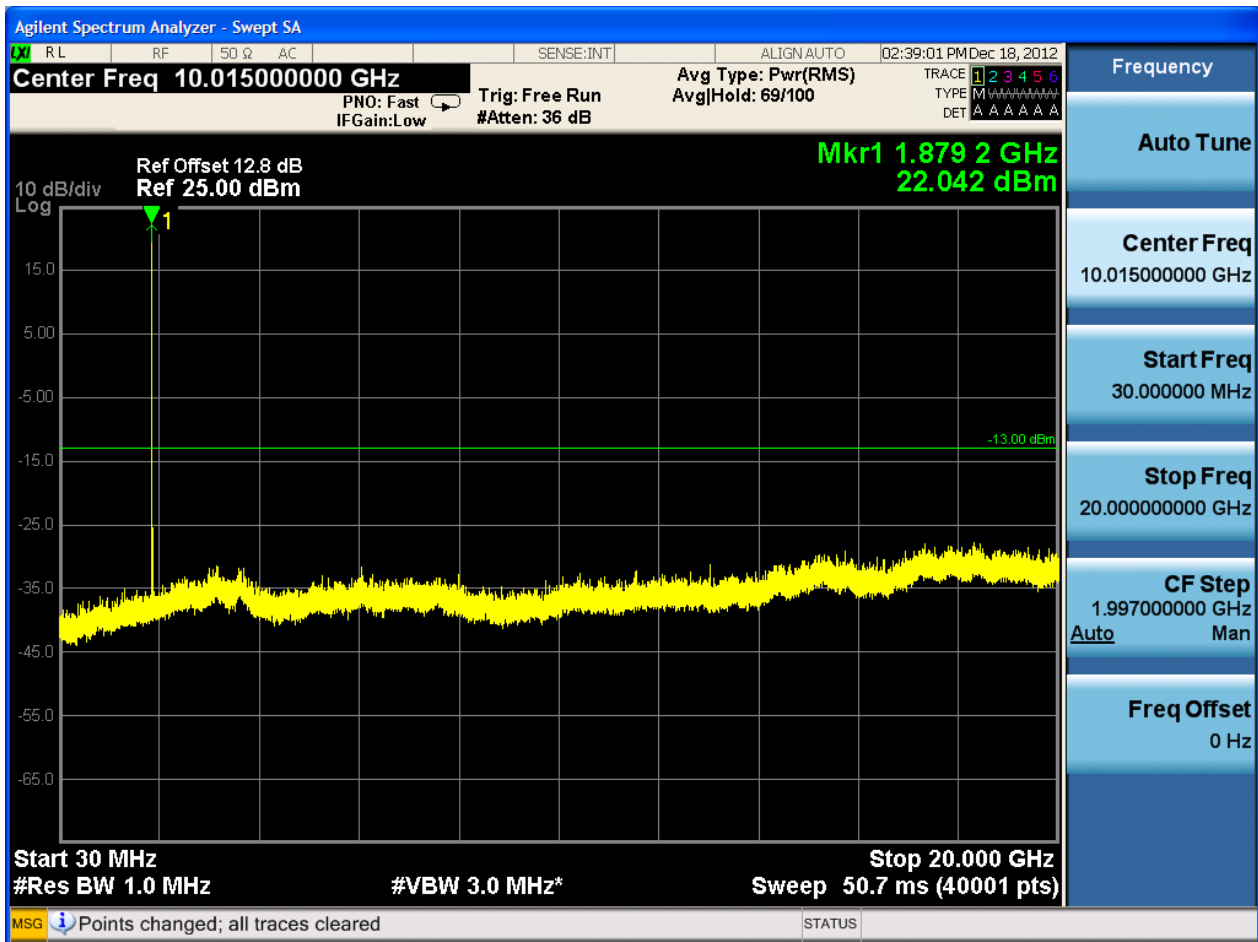




4.1.2.2.2 Test Channel = MCH







4.1.2.2.3 Test Channel = HCH

