



Appendix for Test report



1 Appendix_A: Transmit Output Power Data

Part I - Test Results

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	ERP [dBm]	Limit [dBm]	Verdict
GSM850	GSM/TM1	LCH	31.74	31.86	38.5	PASS
		MCH	32.06	32.21	38.5	PASS
		HCH	32.14	32.29	38.5	PASS
	GSM/TM2	LCH	26.24	26.39	38.5	PASS
		MCH	26.22	26.62	38.5	PASS
		HCH	26.29	26.44	38.5	PASS
WCDMA850	UMTS/TM1	LCH	23.39	23.83	38.5	PASS
		MCH	23.41	23.56	38.5	PASS
		HCH	23.7	23.85	38.5	PASS

Test Band	Test Mode	Test Channel	Conducted Power [dBm]	EIRP [dBm]	Limit [dBm]	Verdict
GSM1900	GSM/TM1	LCH	29.05	31.35	33	PASS
		MCH	29.06	31.36	33	PASS
		HCH	29.10	31.64	33	PASS
	GSM/TM2	LCH	25.70	28.01	33	PASS
		MCH	25.64	27.94	33	PASS
		HCH	25.02	27.32	33	PASS
WCDMA1900	UMTS/TM1	LCH	23.24	25.54	33	PASS
		MCH	23.14	25.44	33	PASS
		HCH	23.19	25.82	33	PASS

Note1: a, For getting the ERP (Efficient Radiated Power) or EIRP (Efficient Isotropic Radiated Power) in substitution method, the following formula should be taken to calculate it,

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

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

b, SGP=Signal Generator Level

Note2: RBW > emission bandwidth, VBW > 3 x RBW.

2Appendix_B: Peak-to-Average Ratio

Part I - Test Results

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
GSM850	GSM/TM1	LCH	0.62	13	PASS
		MCH	0.21	13	PASS
		HCH	0.15	13	PASS
	GSM/TM2	LCH	2.78	13	PASS
		MCH	2.95	13	PASS
		HCH	3.09	13	PASS
GSM1900	GSM/TM1	LCH	0.17	13	PASS
		MCH	0.11	13	PASS
		HCH	0.03	13	PASS
	GSM/TM2	LCH	3.09	13	PASS
		MCH	3.12	13	PASS
		HCH	3.09	13	PASS

Test Band	Test Mode	Test Channel	Measured[dB]	Limit [dB]	Verdict
WCDMA850	UMTS/TM1	LCH	2.50	13	PASS
		MCH	2.61	13	PASS
		HCH	2.73	13	PASS
WCDMA1900	UMTS/TM1	LCH	3.19	13	PASS
		MCH	3.21	13	PASS
		HCH	3.16	13	PASS



3Appendix_C: Modulation Characteristics

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4Appendix_D: Bandwidth

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5Appendix_E: Band Edges Compliance

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6Appendix_F: 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

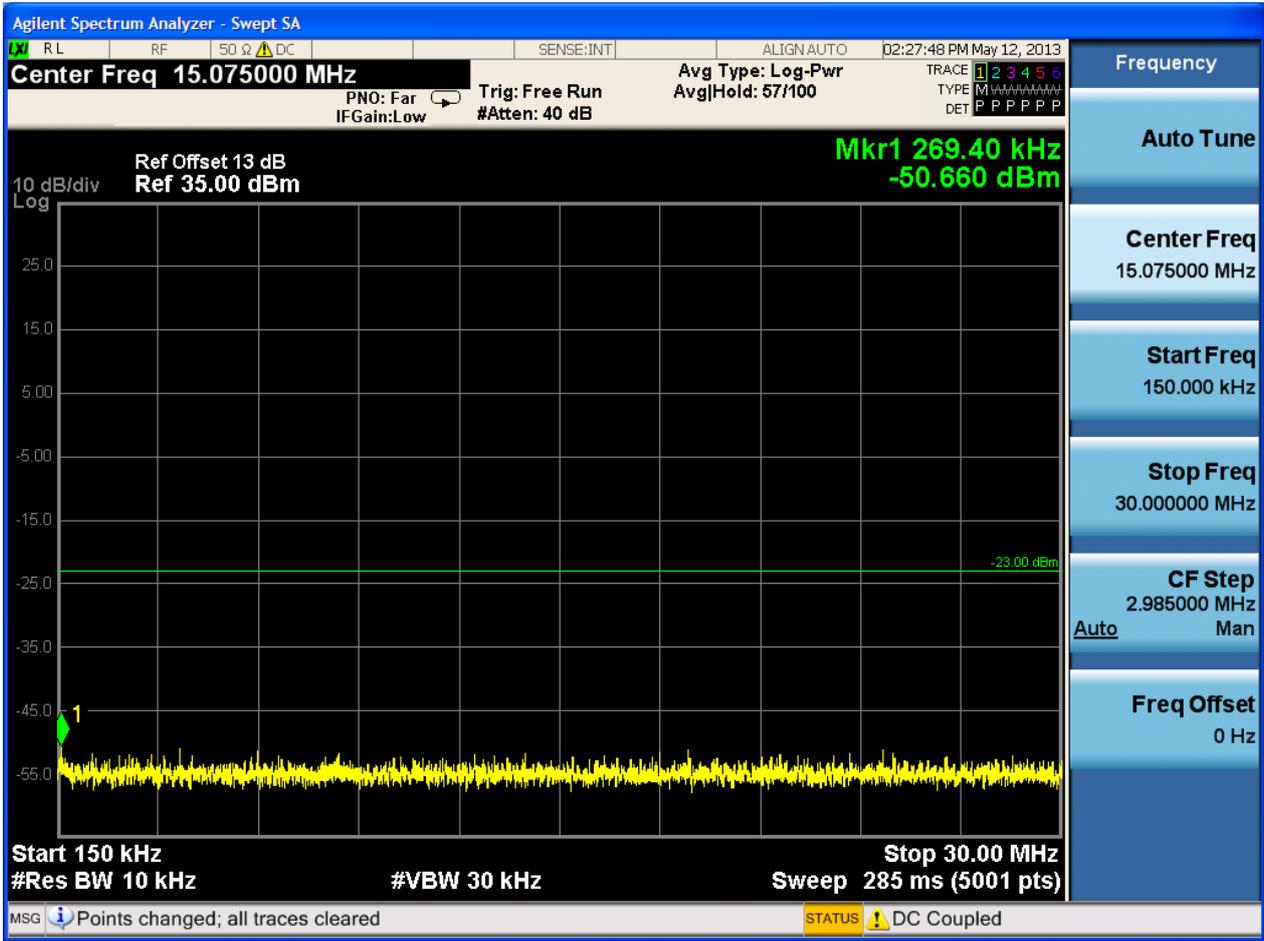
6.1 For GSM

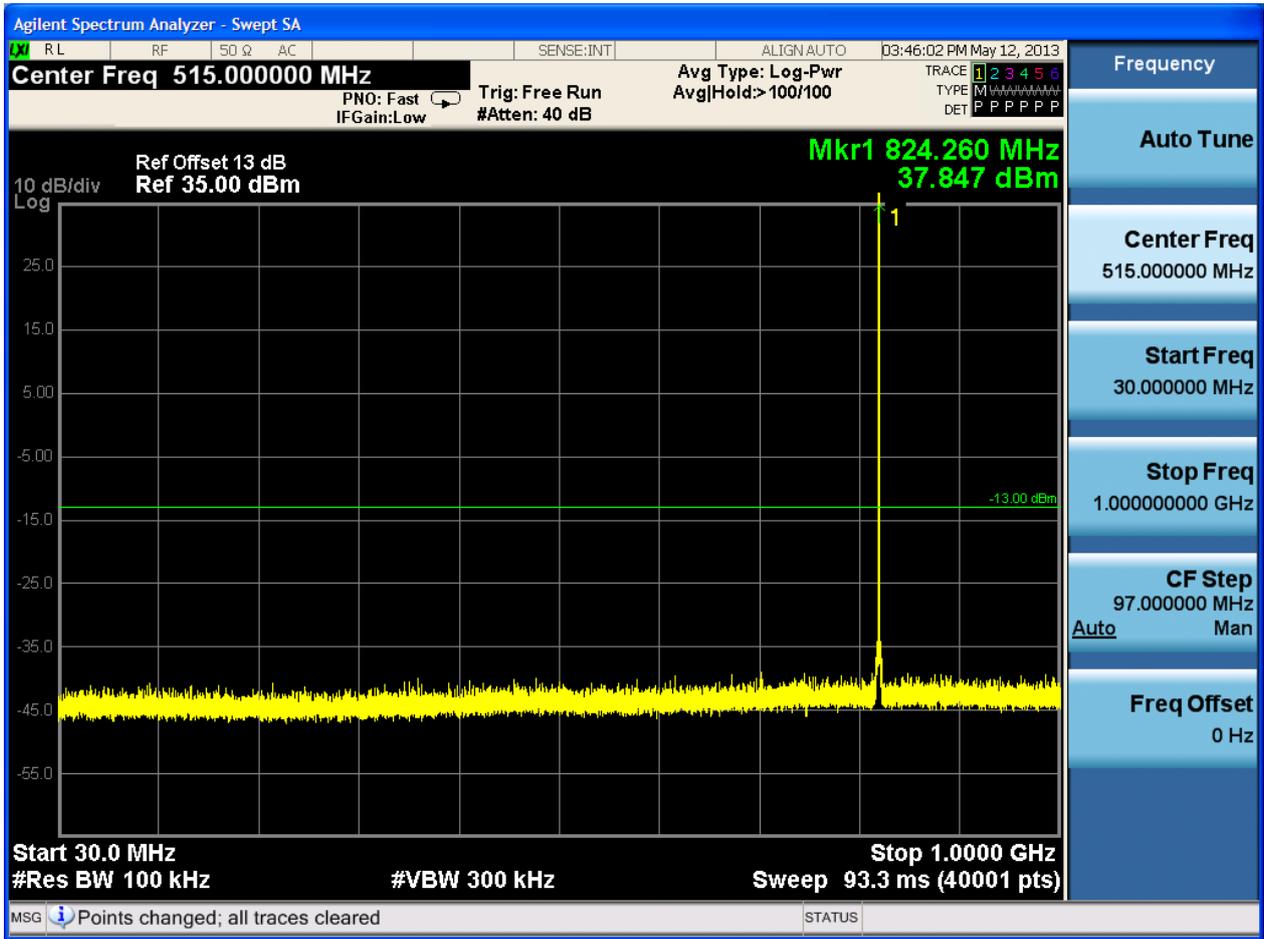
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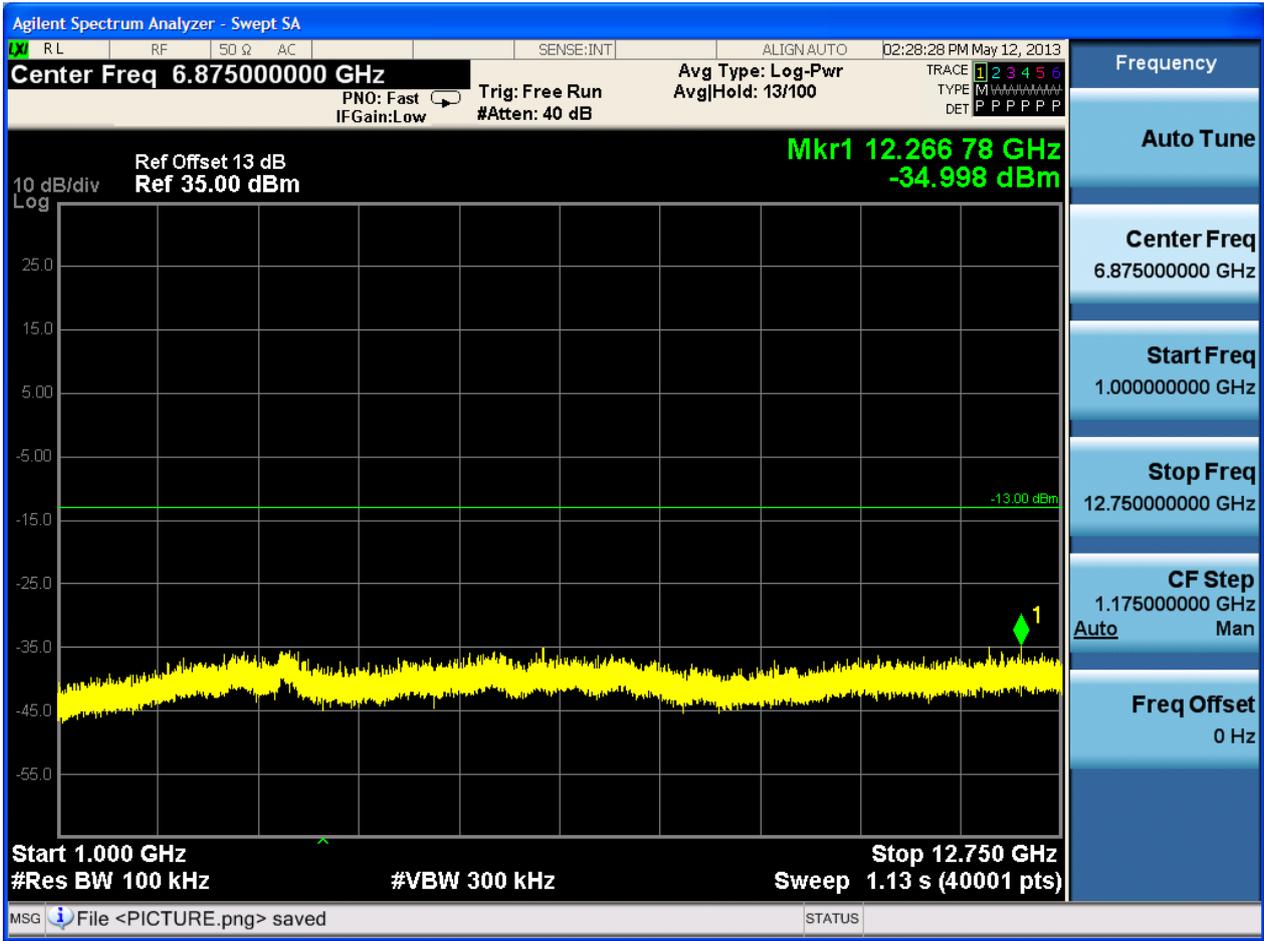
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6.1.1.1.1 Test Channel = LCH





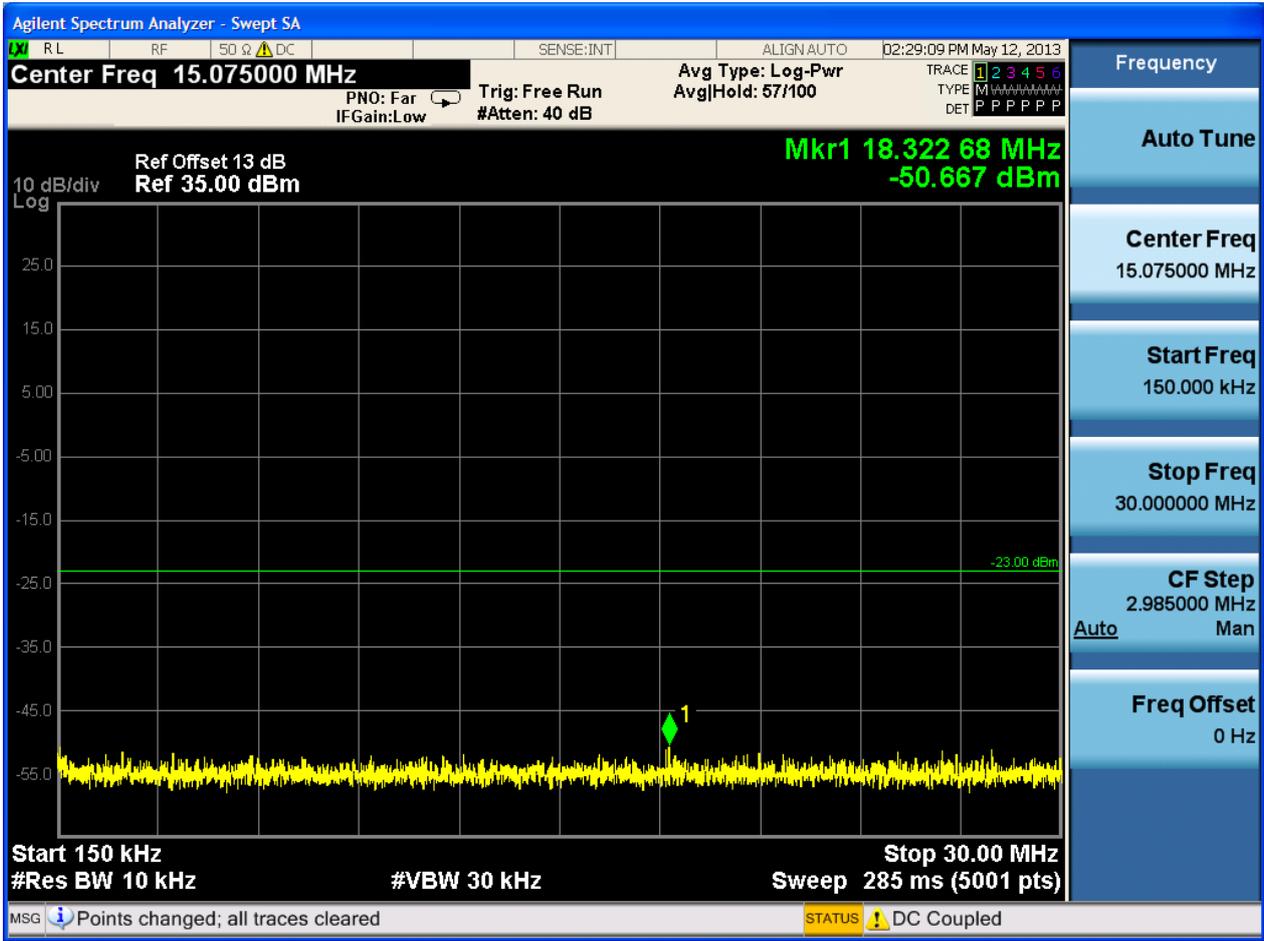


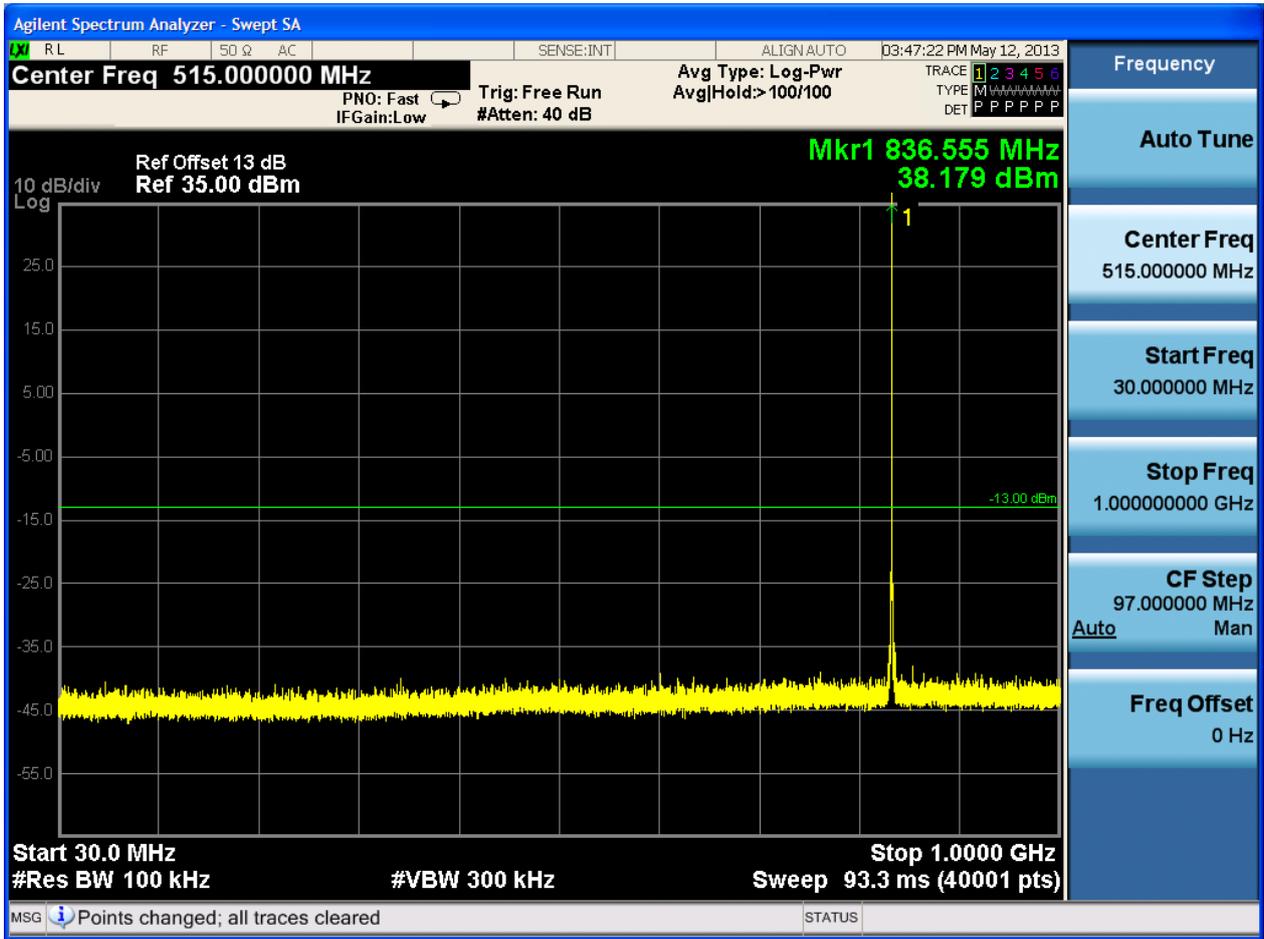


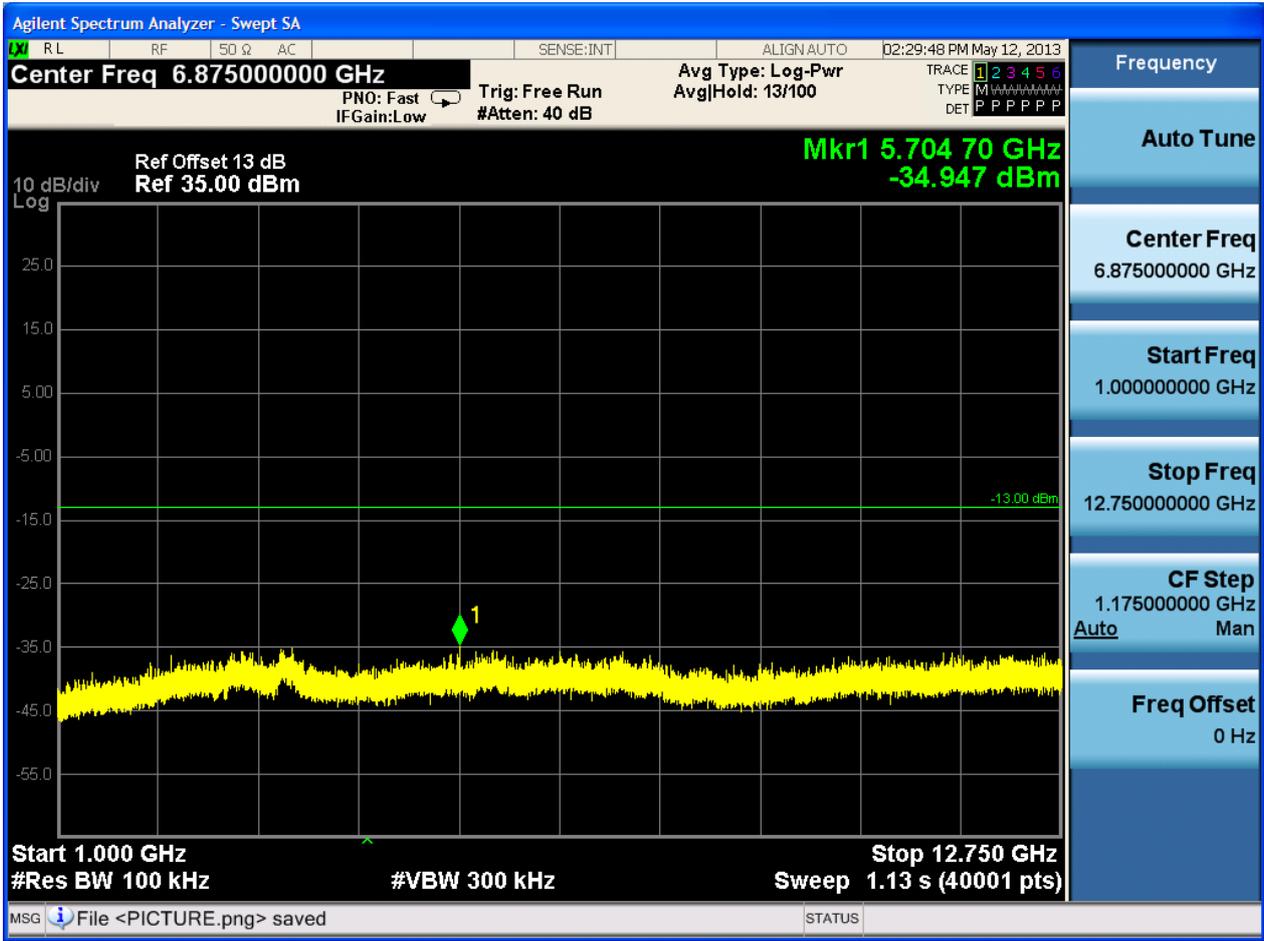


6.1.1.1.2 Test Channel = MCH



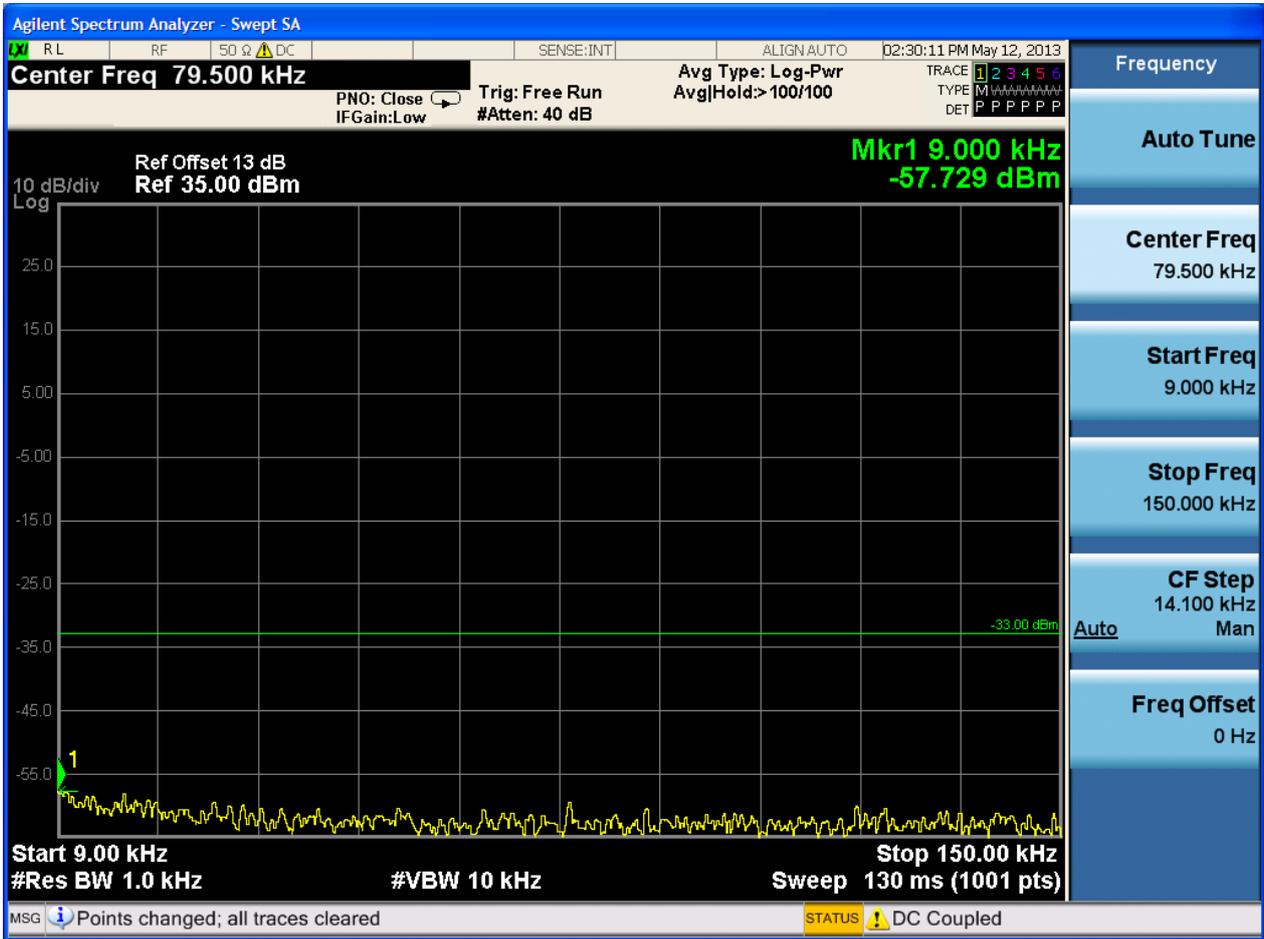


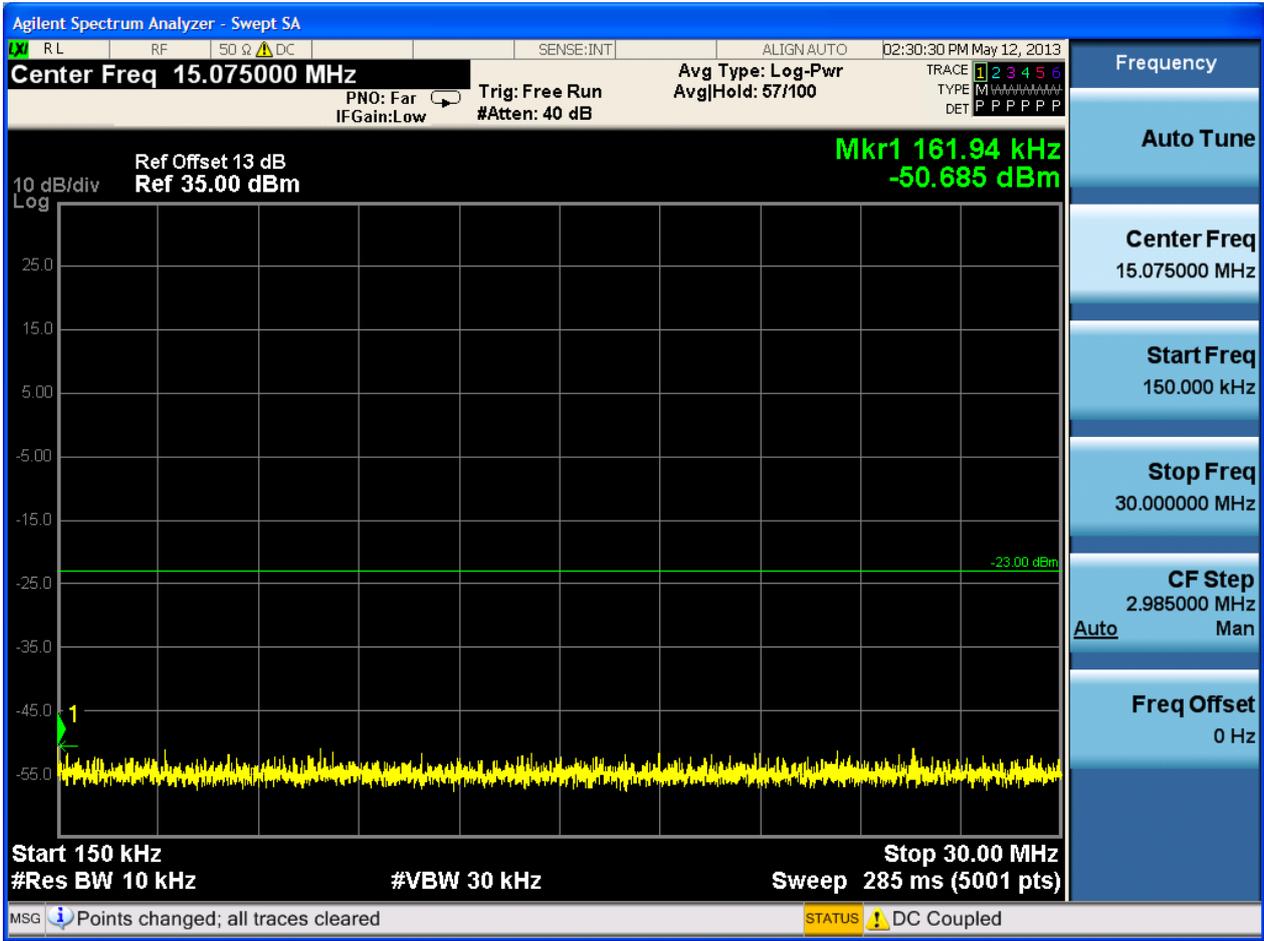


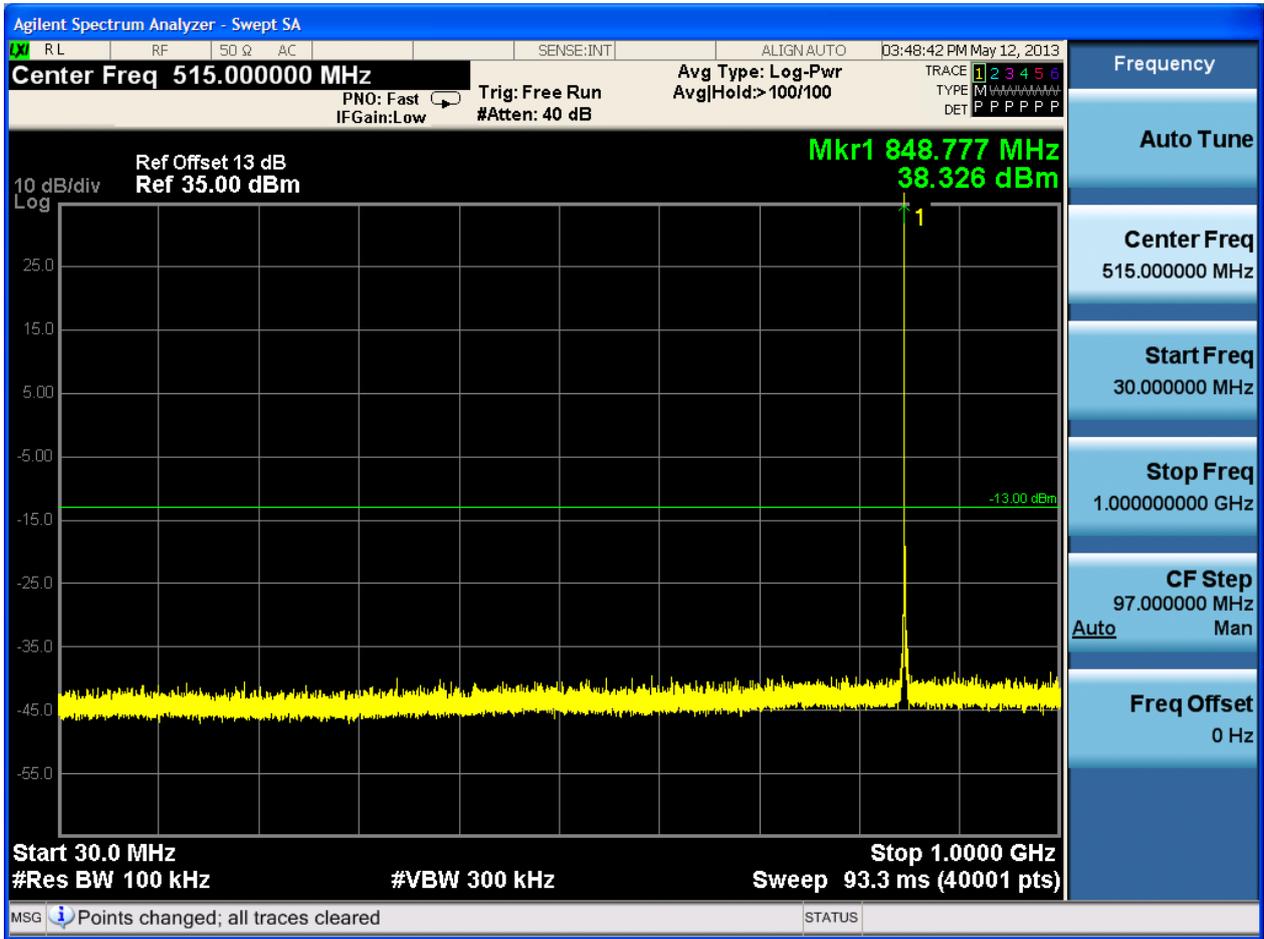




6.1.1.1.3 Test Channel = HCH



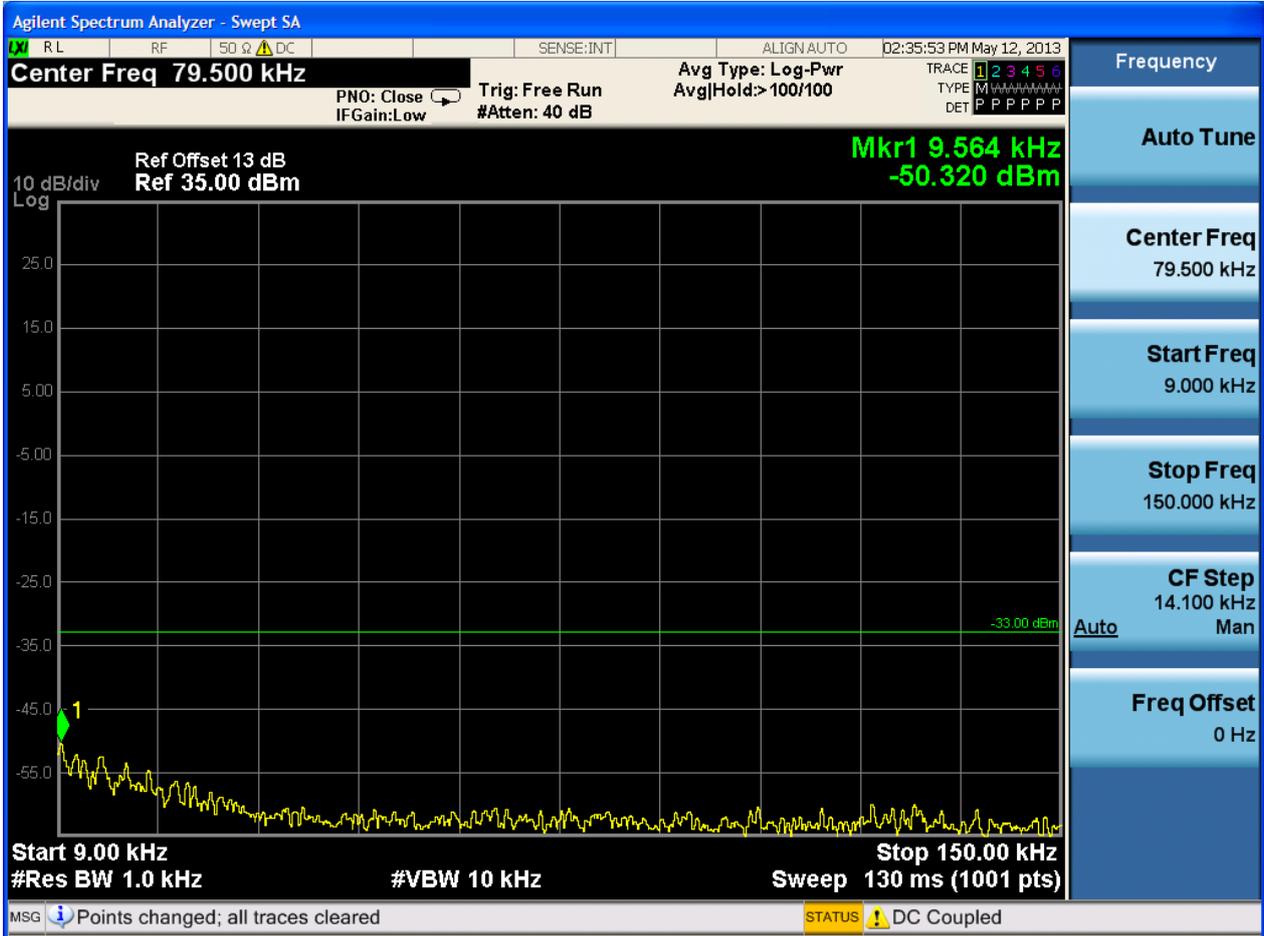


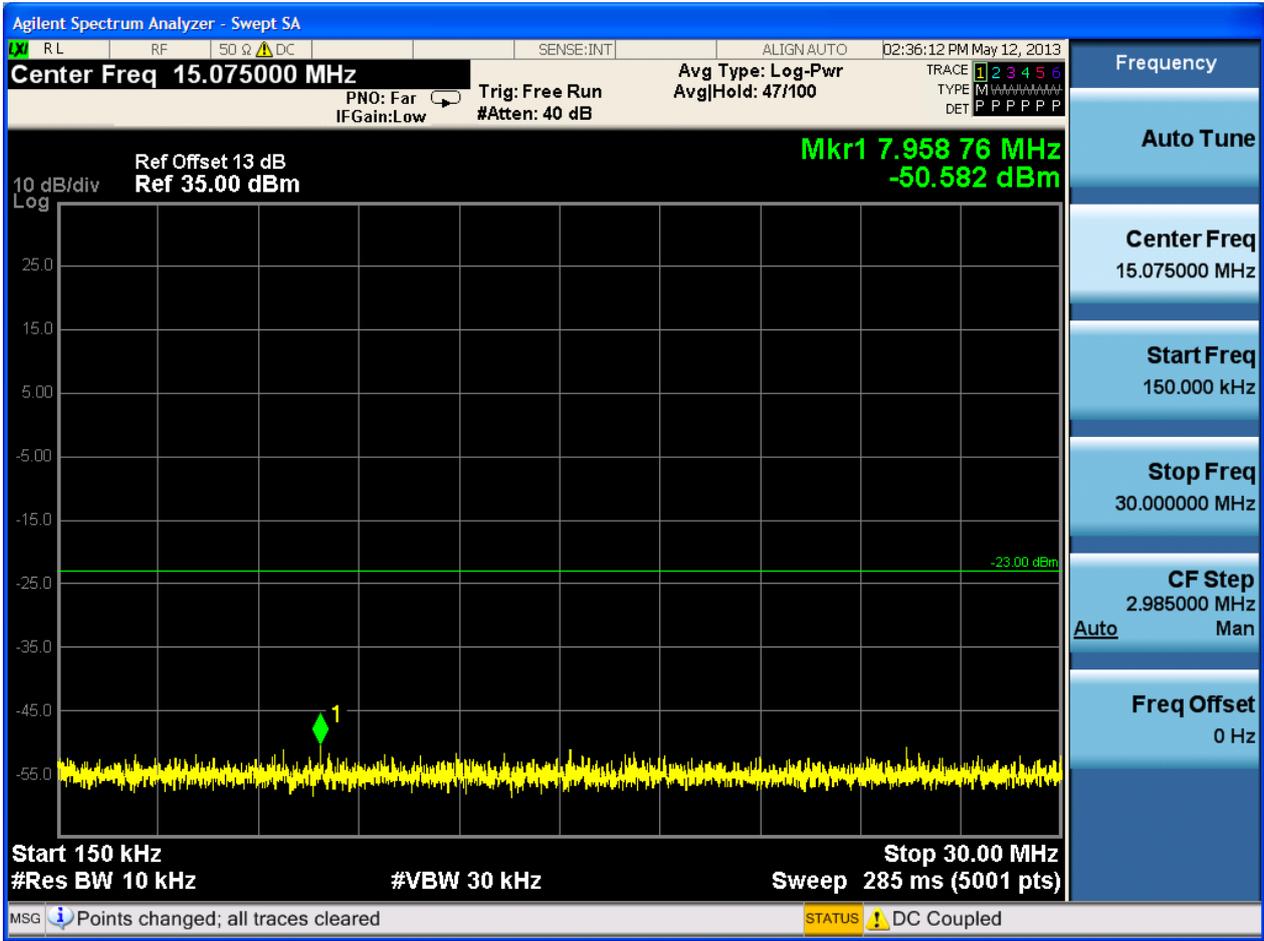


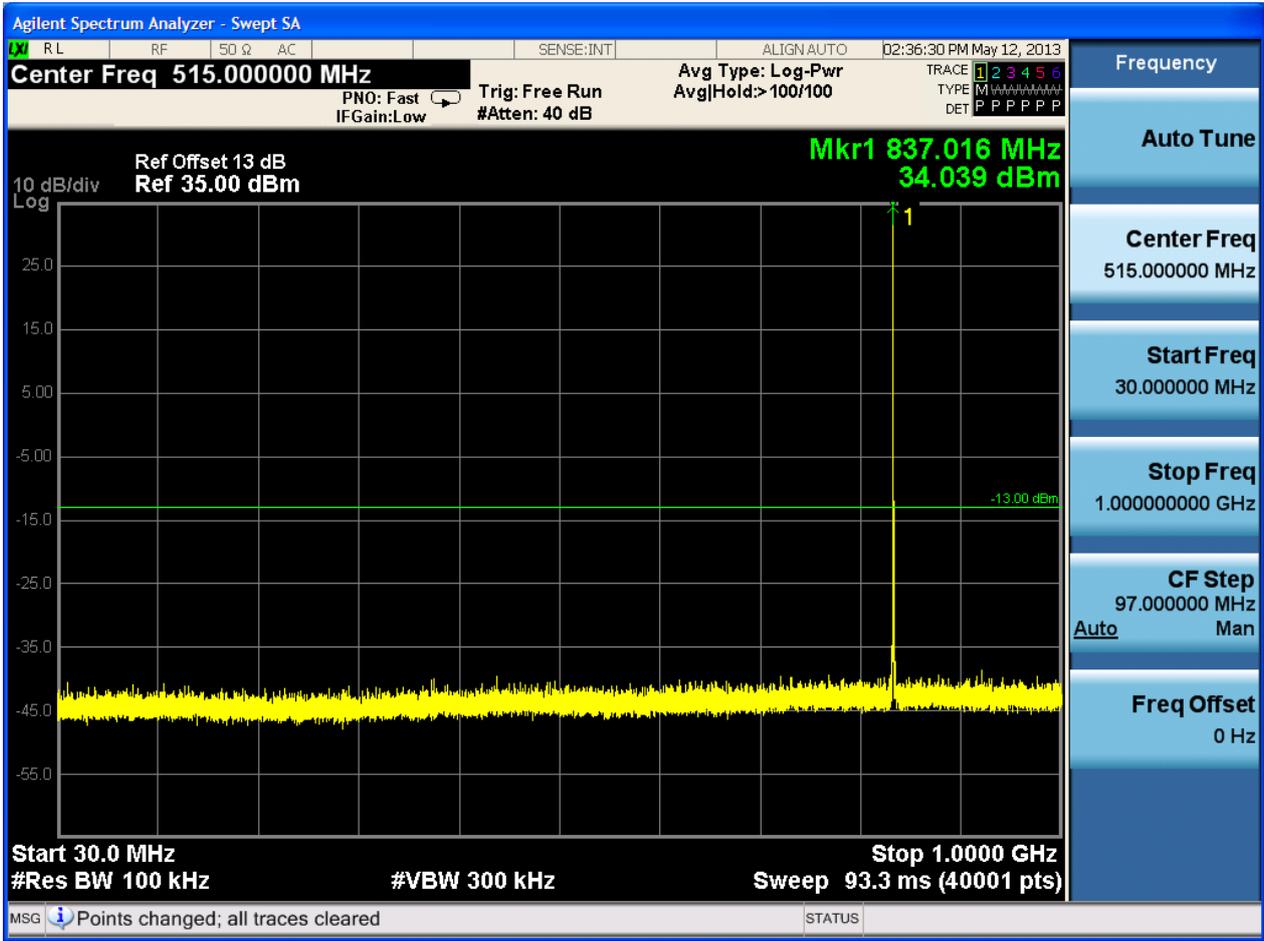


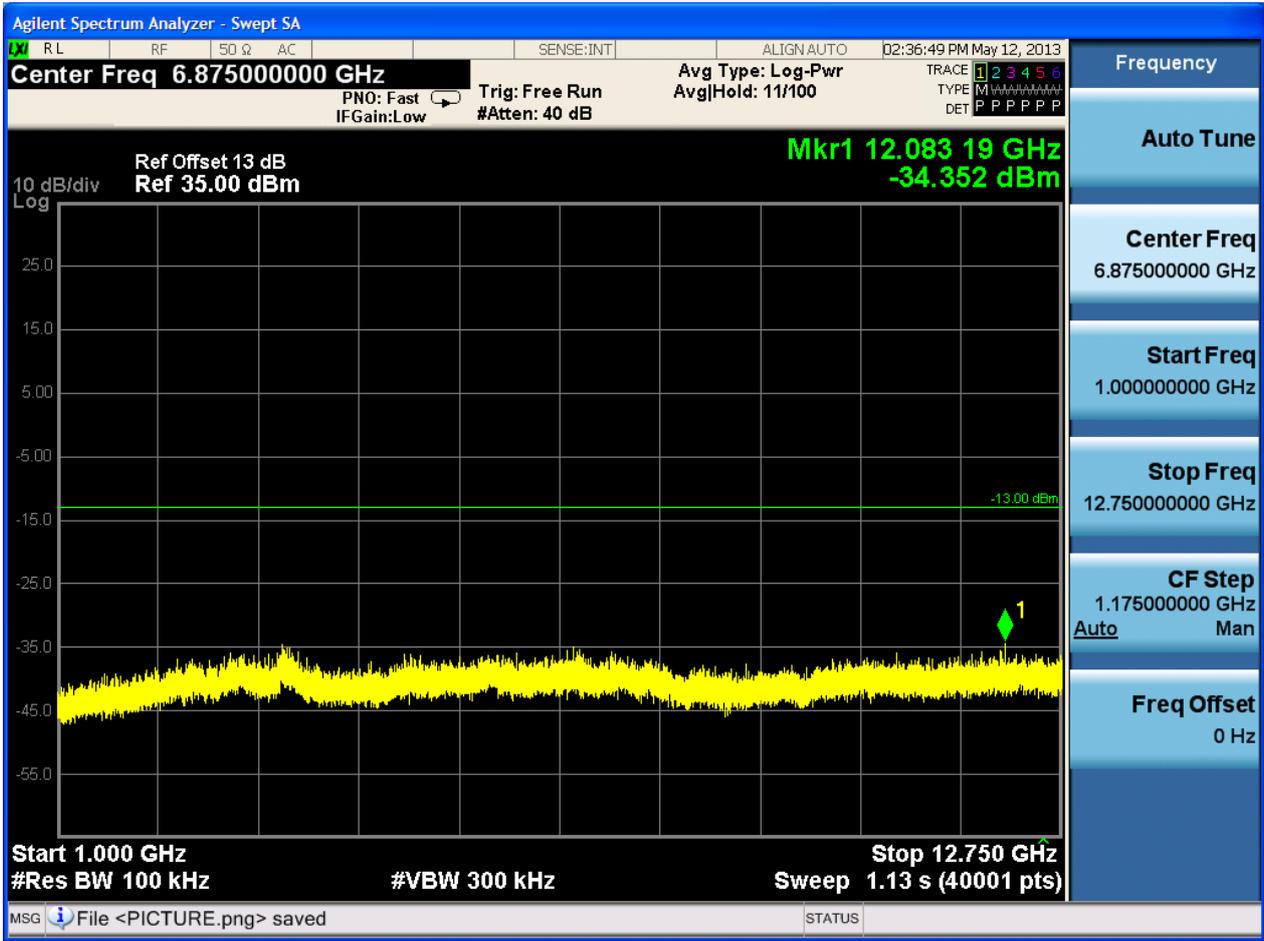
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6.1.1.2.1 Test Channel = LCH





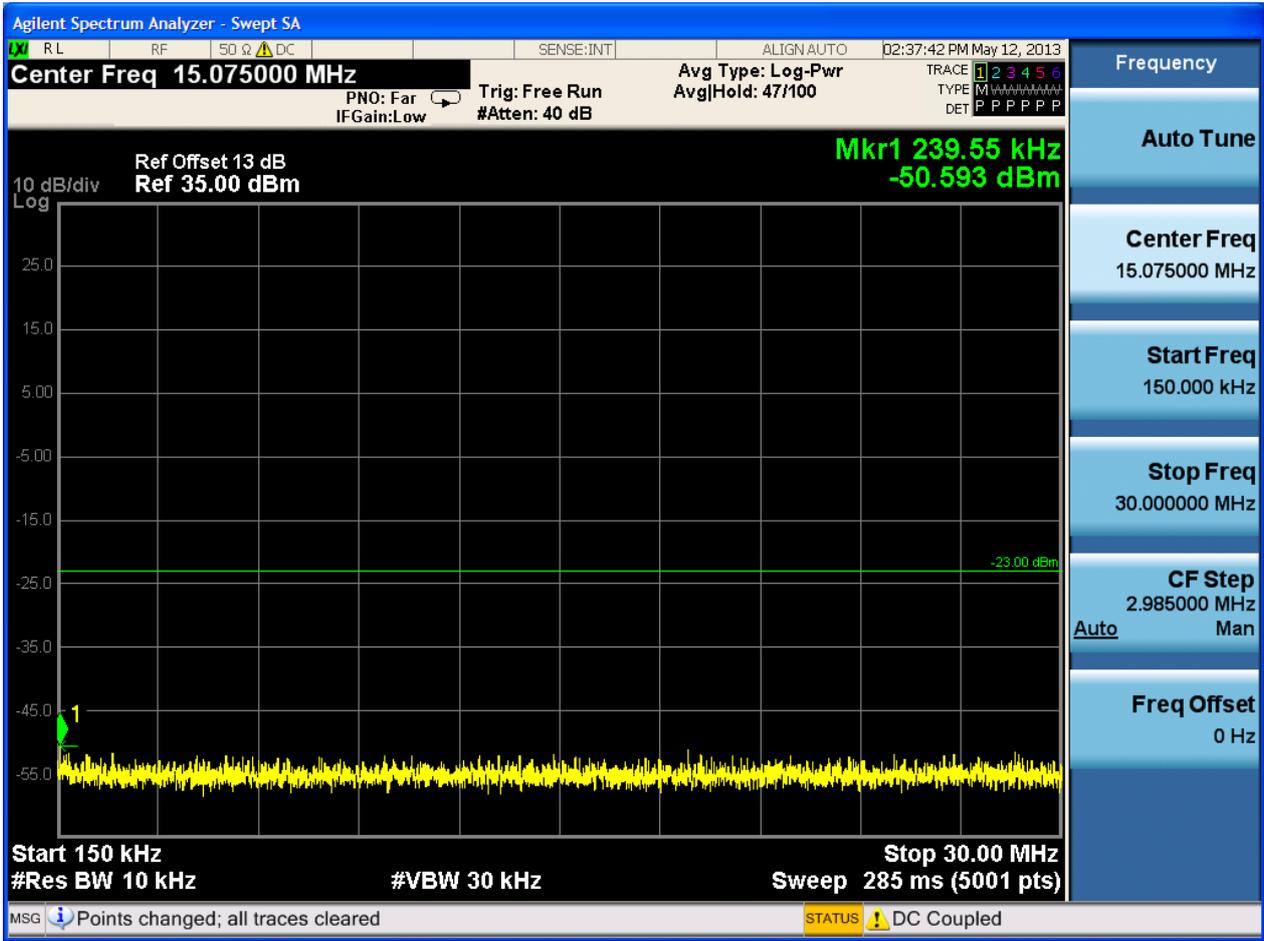


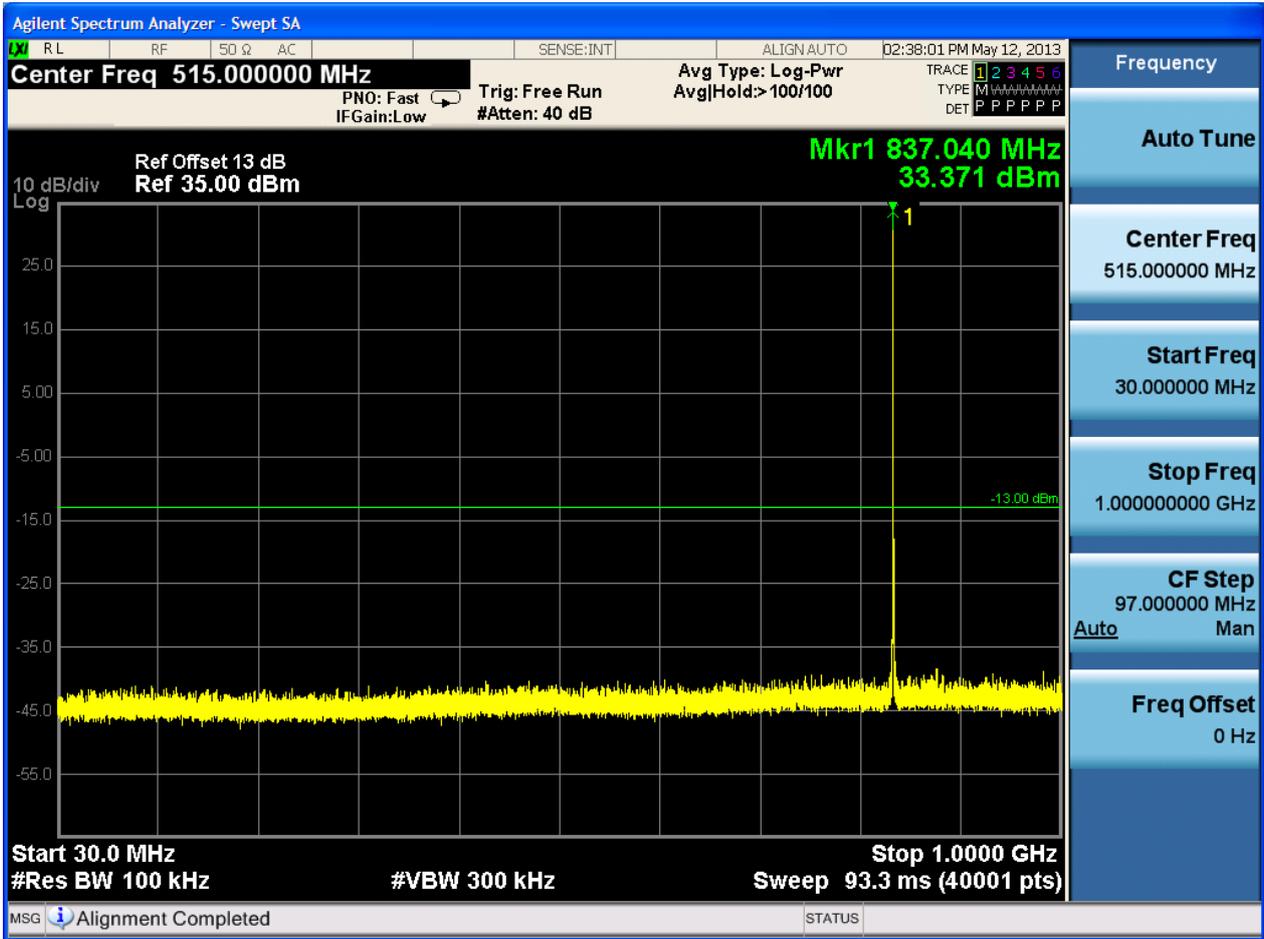


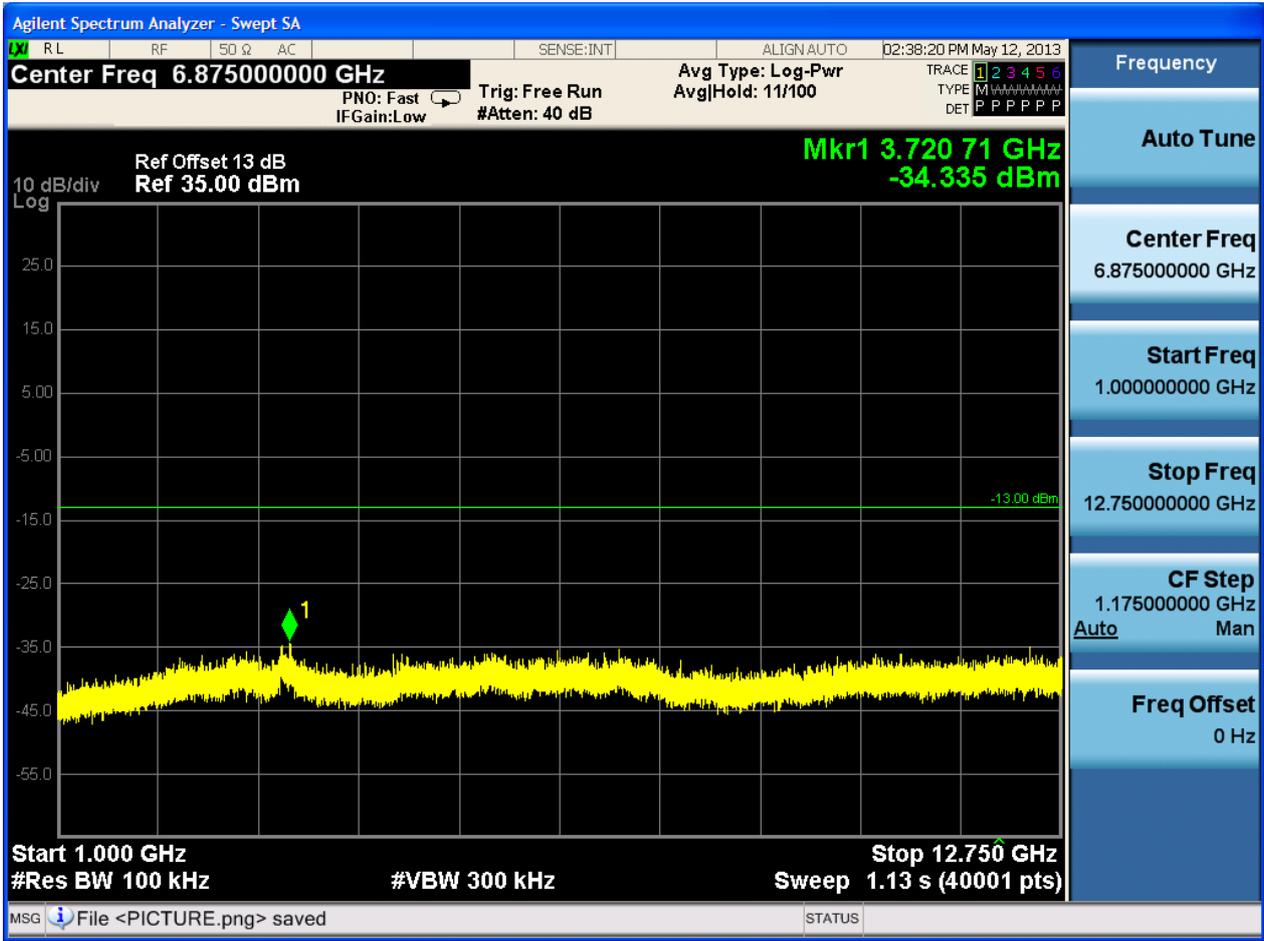


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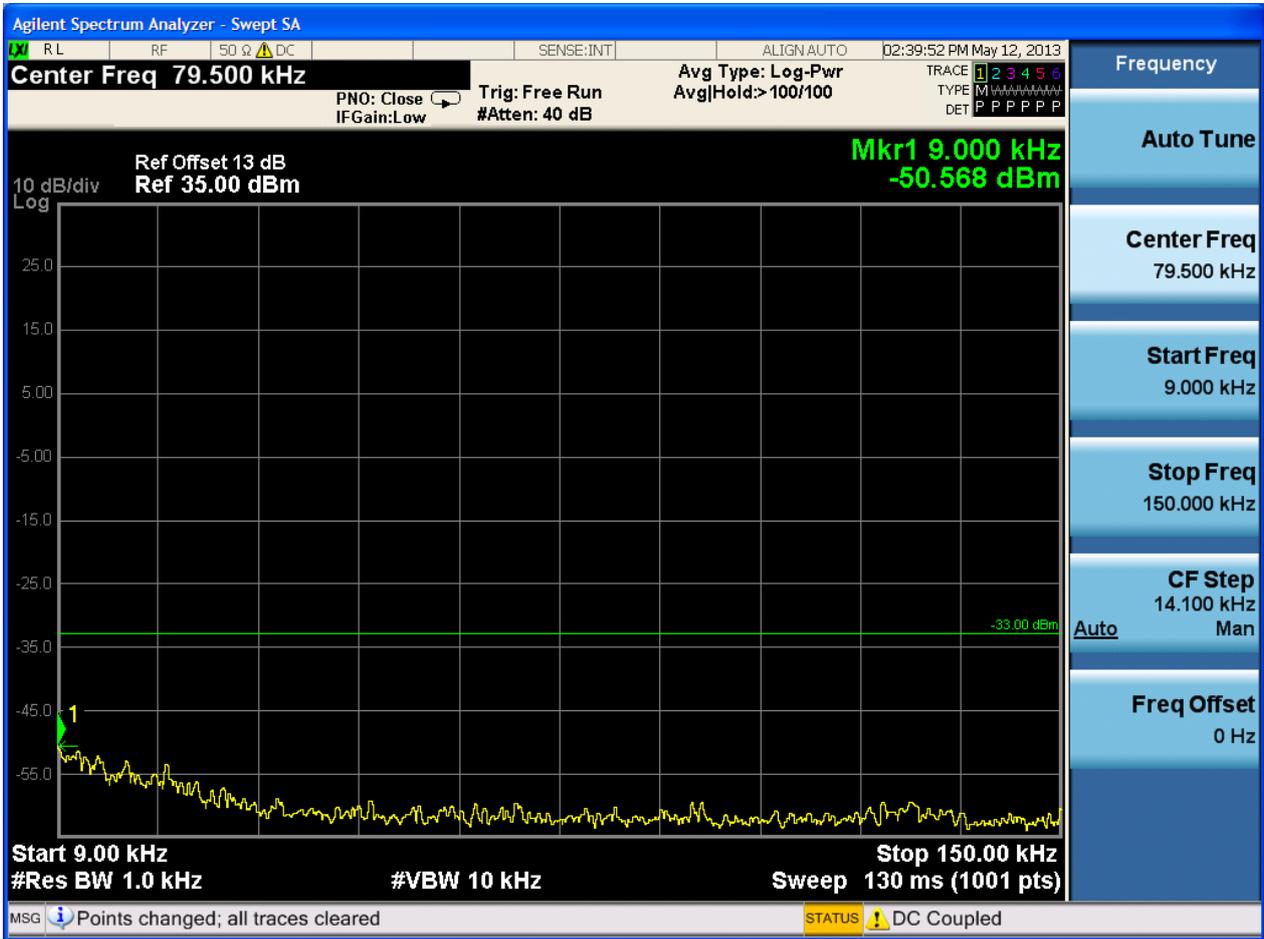


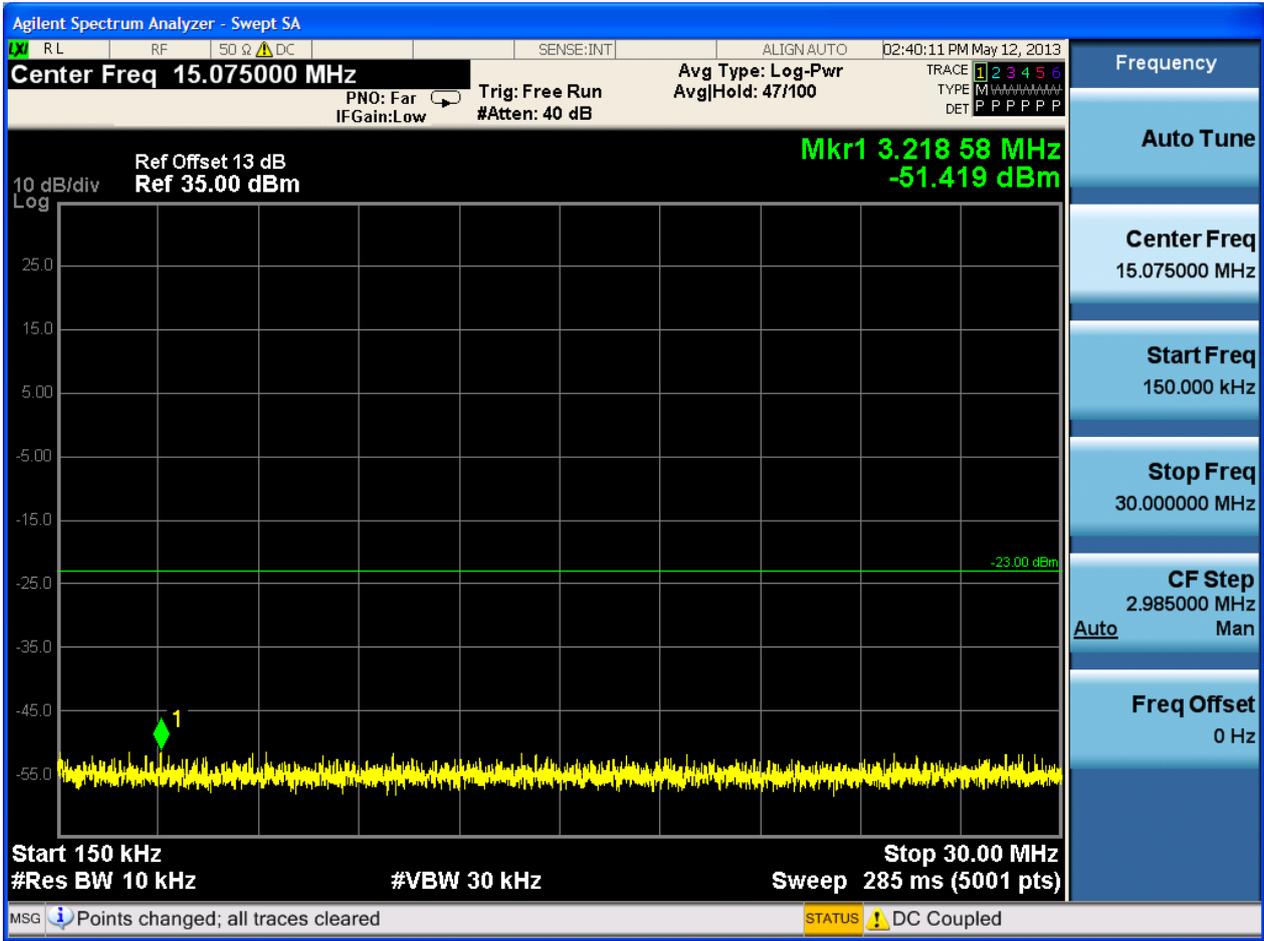


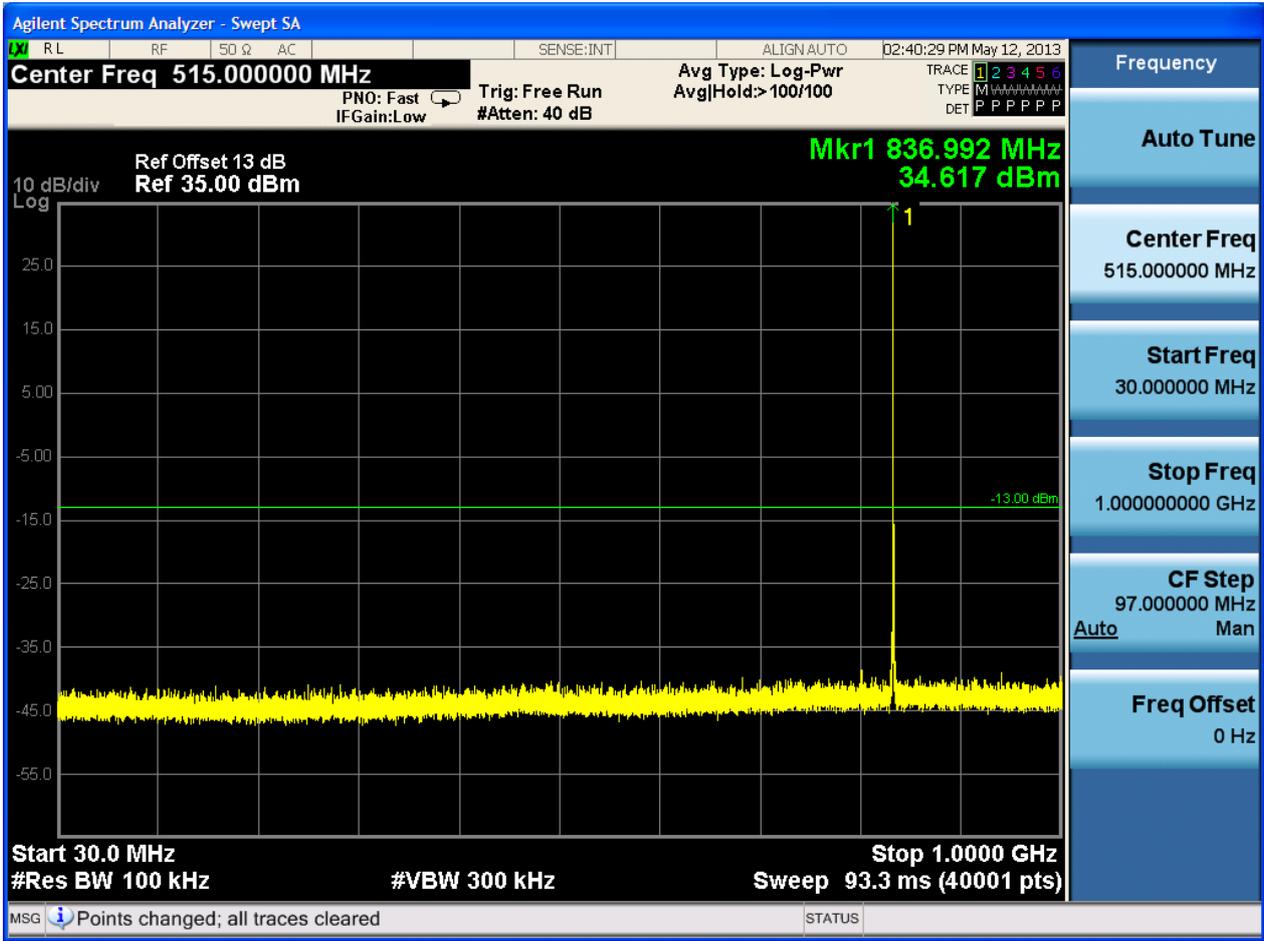




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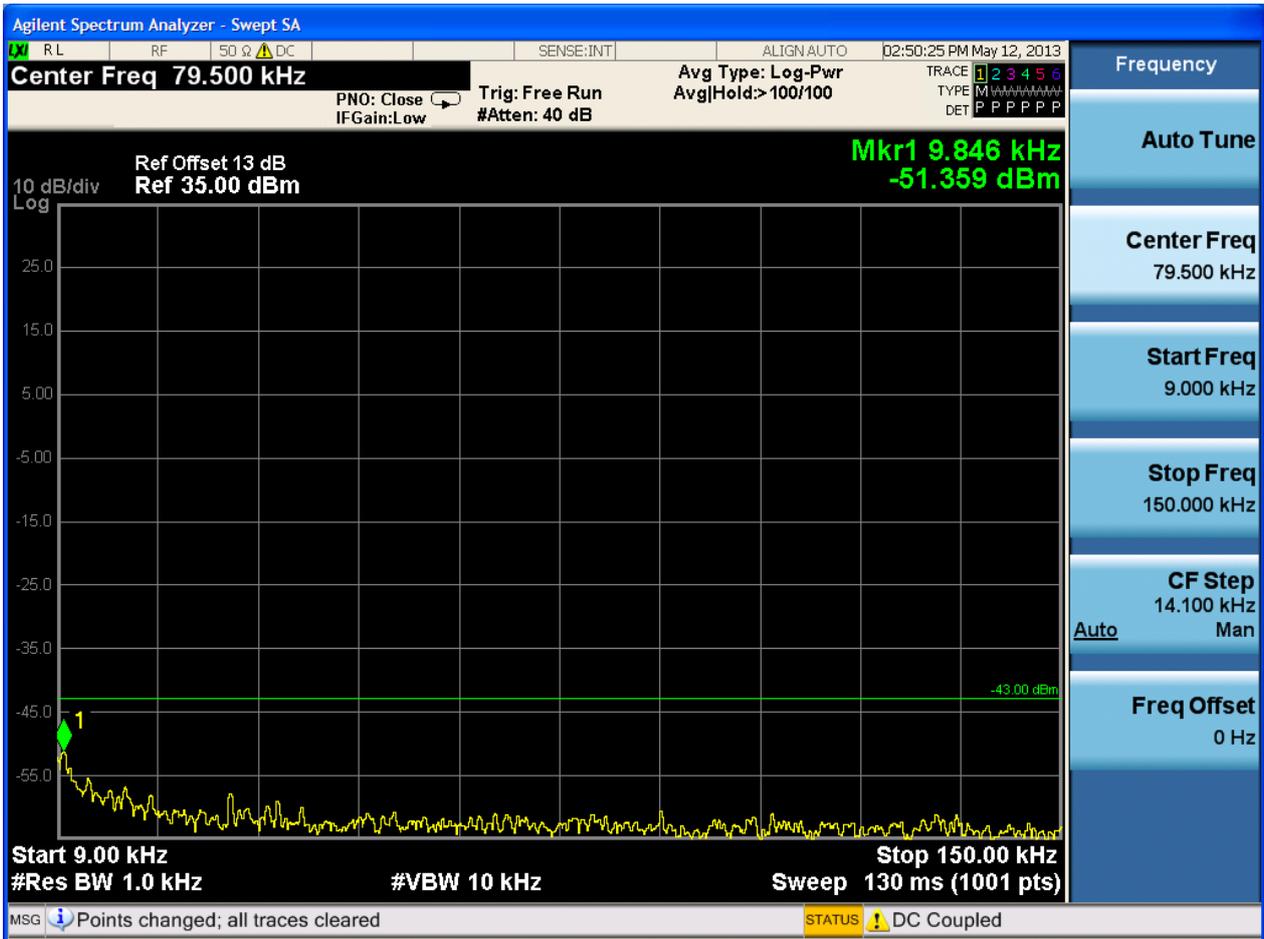


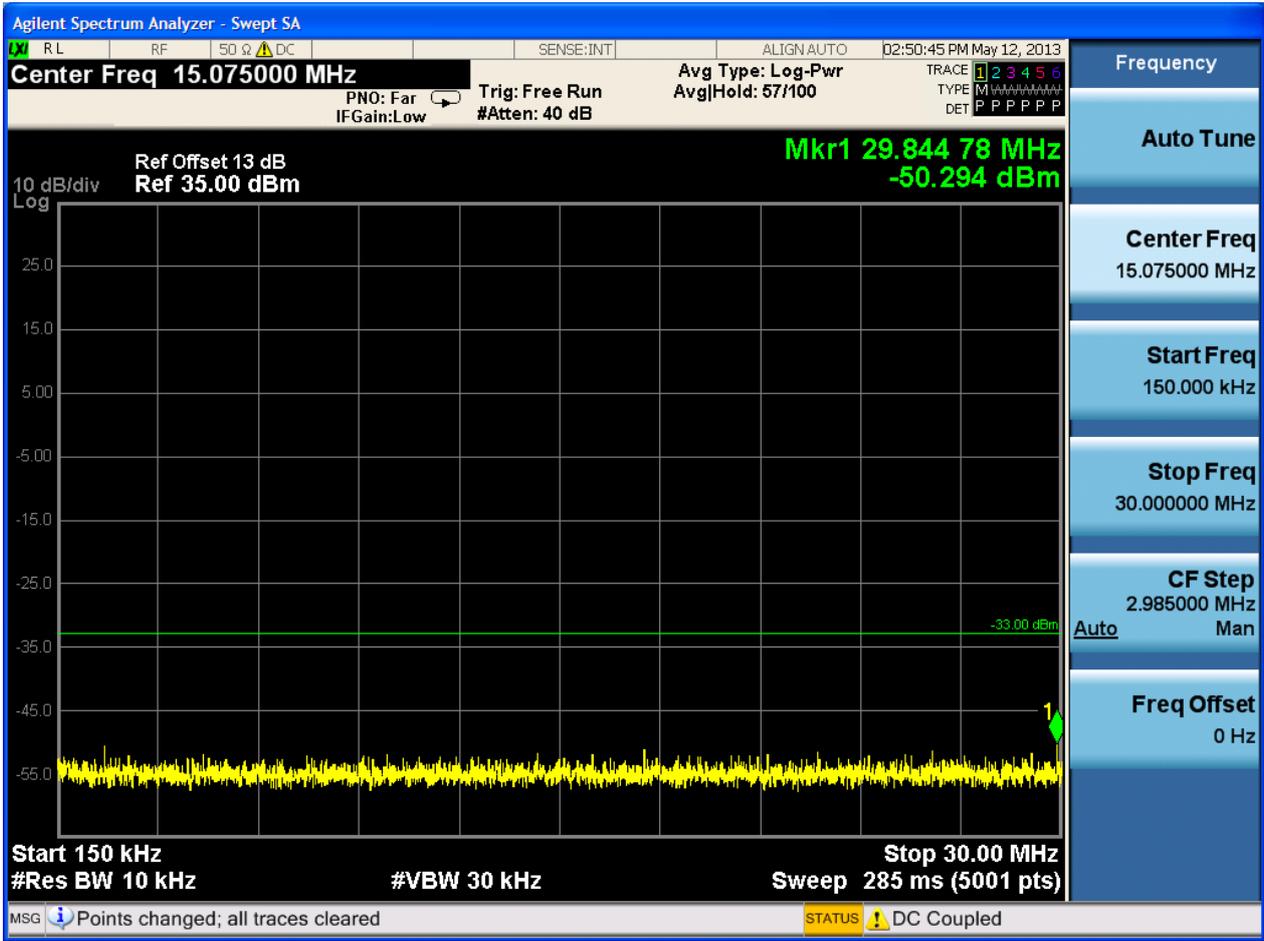


6.1.2 Test Band = GSM1900

6.1.2.1 Test Mode = GSM/TM1

6.1.2.1.1 Test Channel = LCH

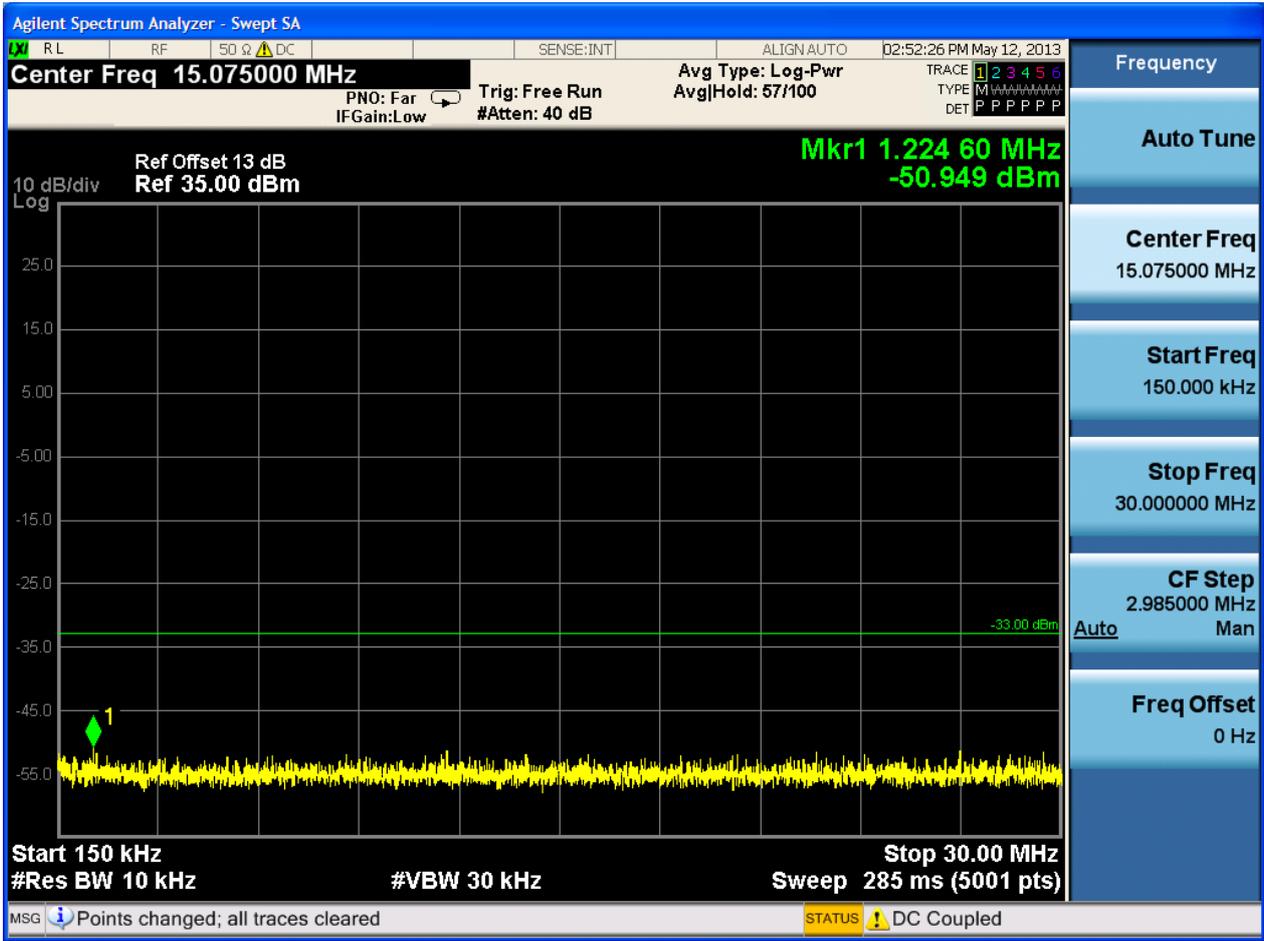






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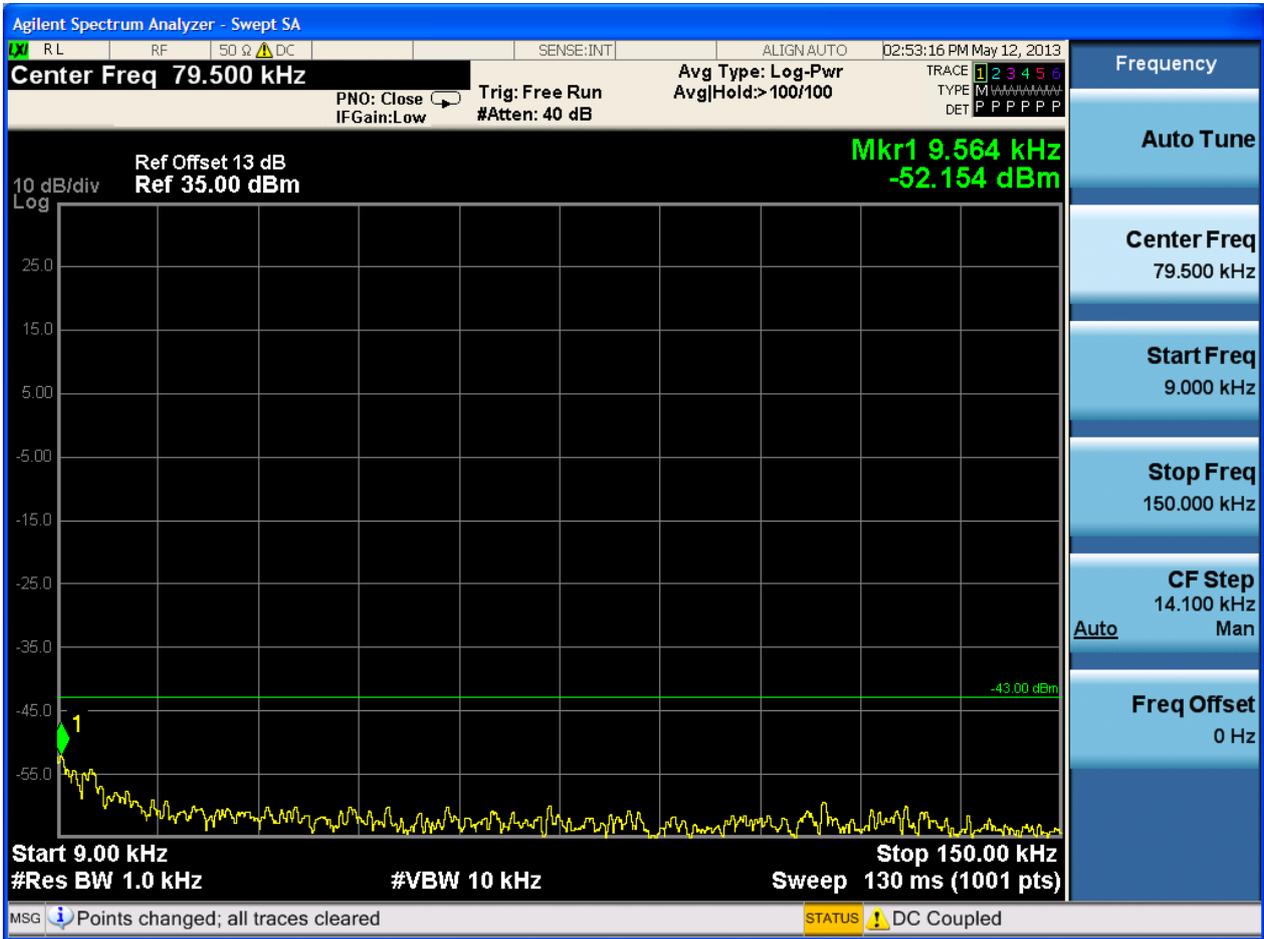


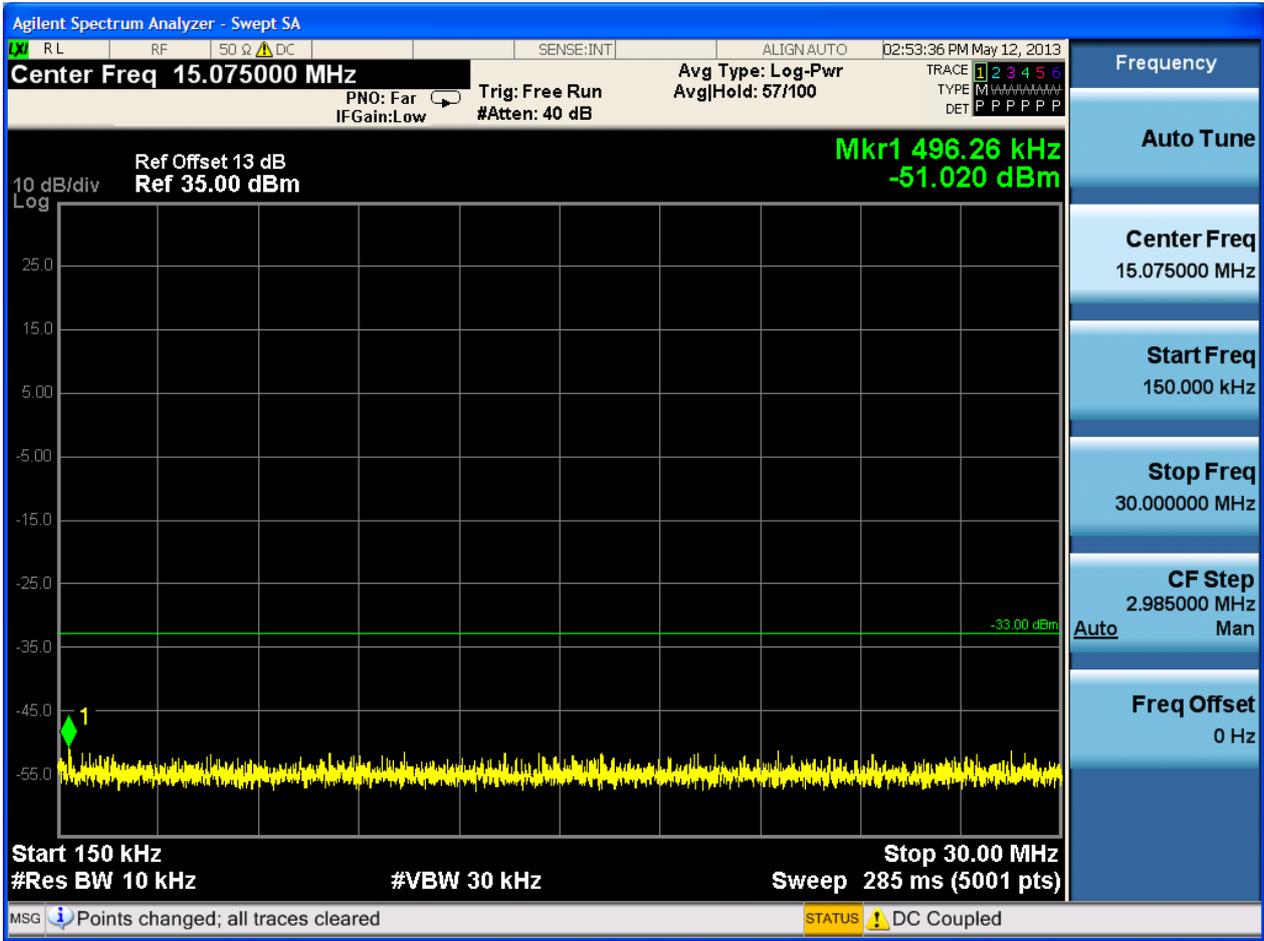


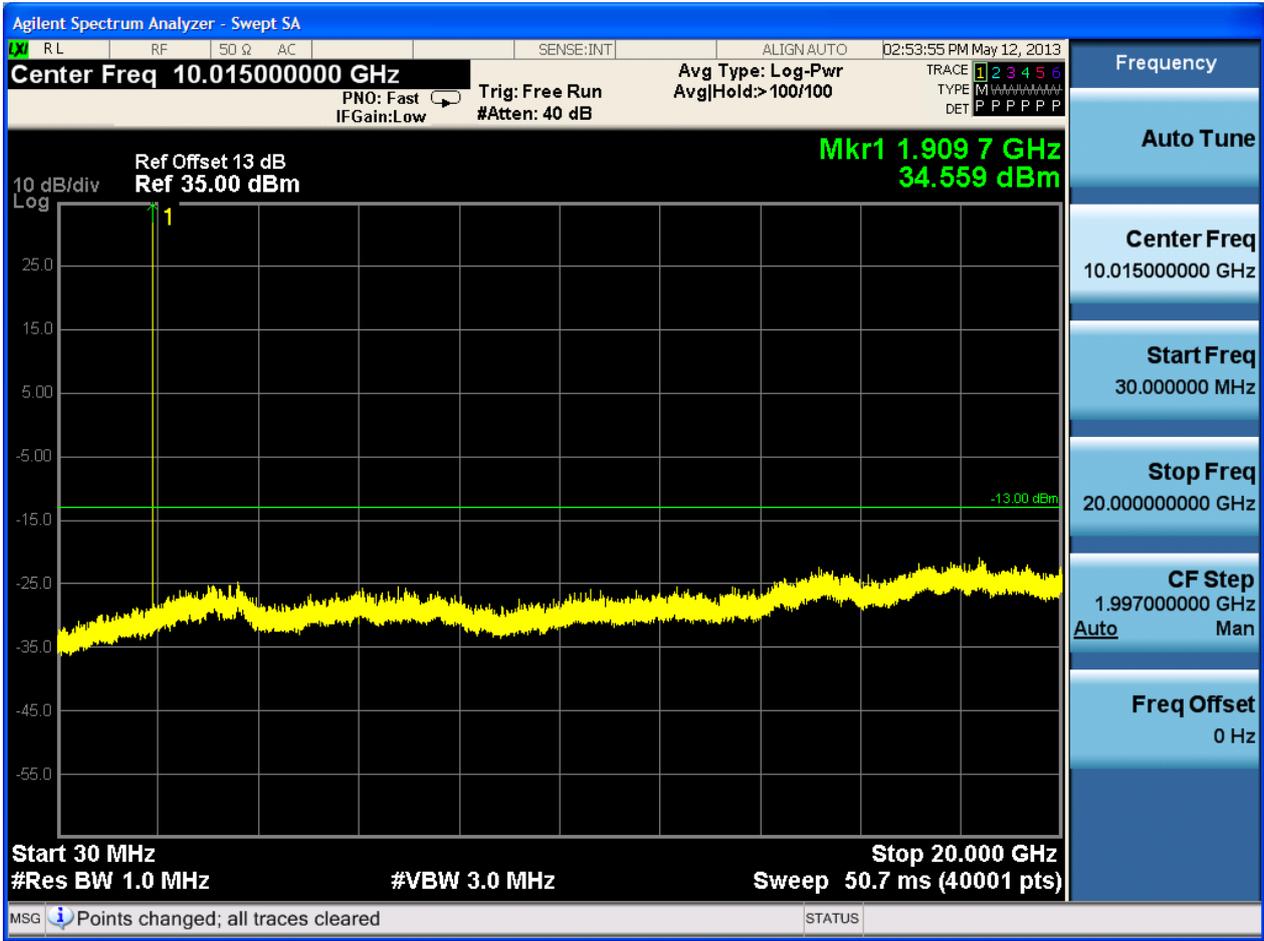




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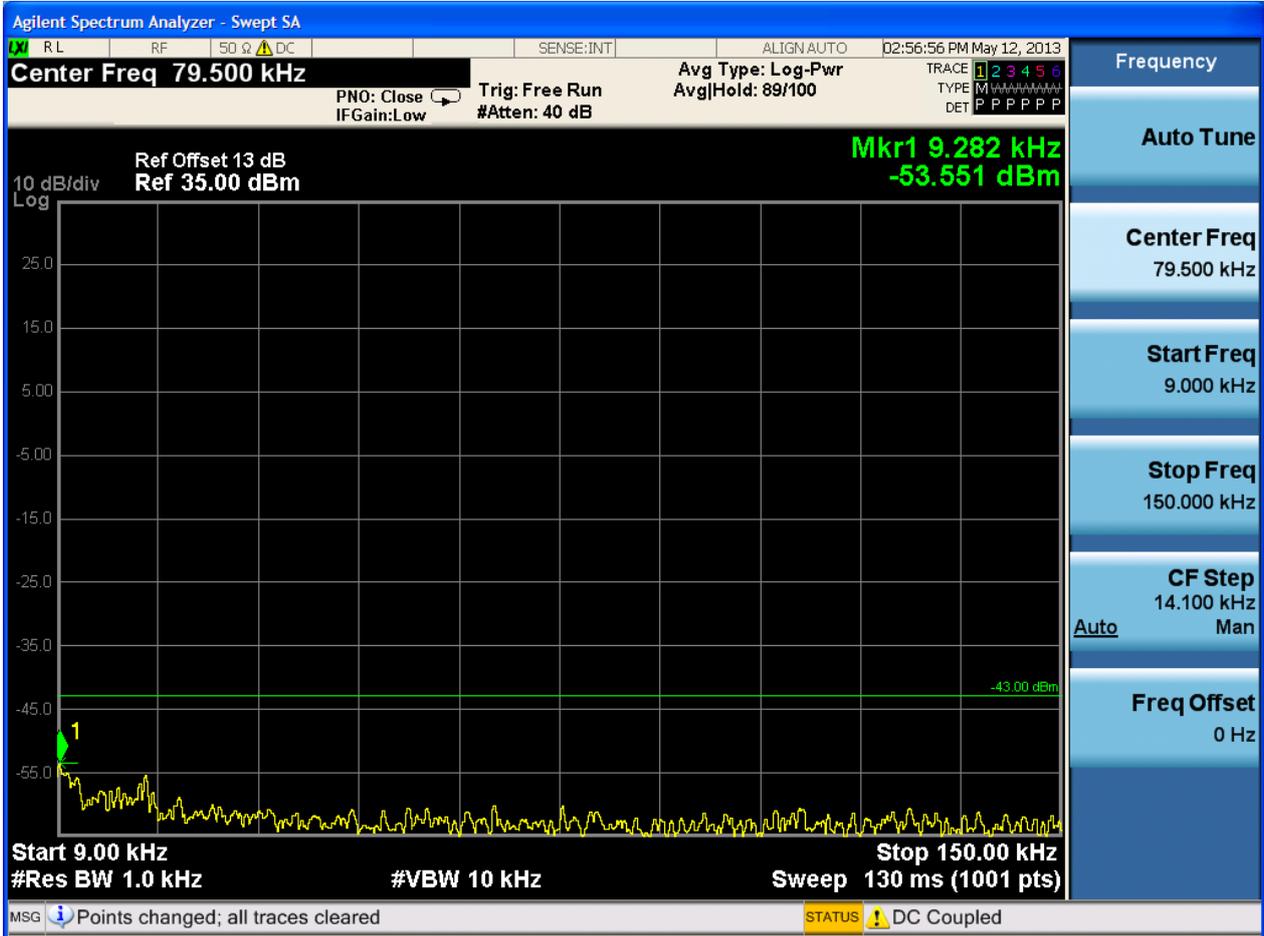


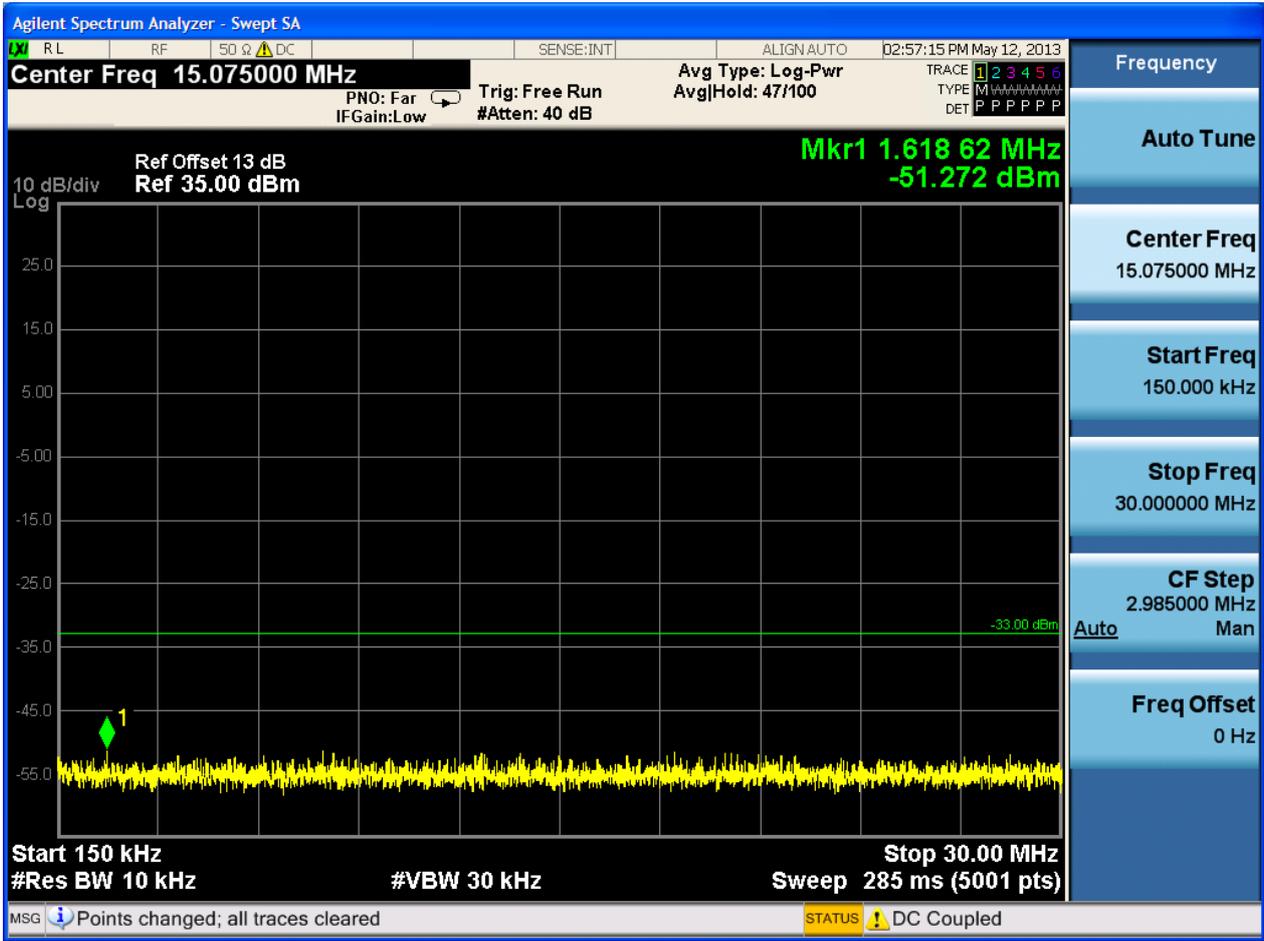




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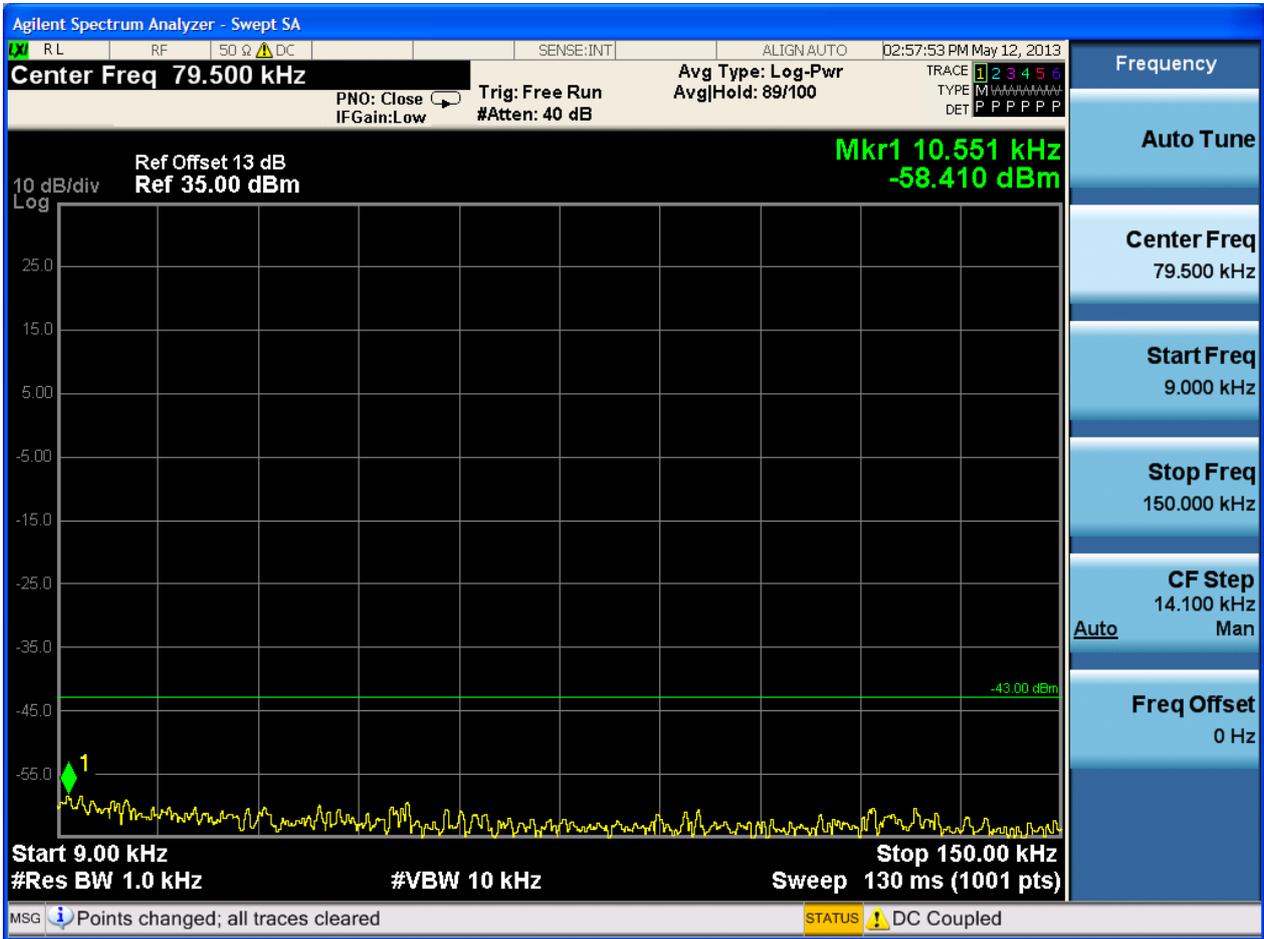
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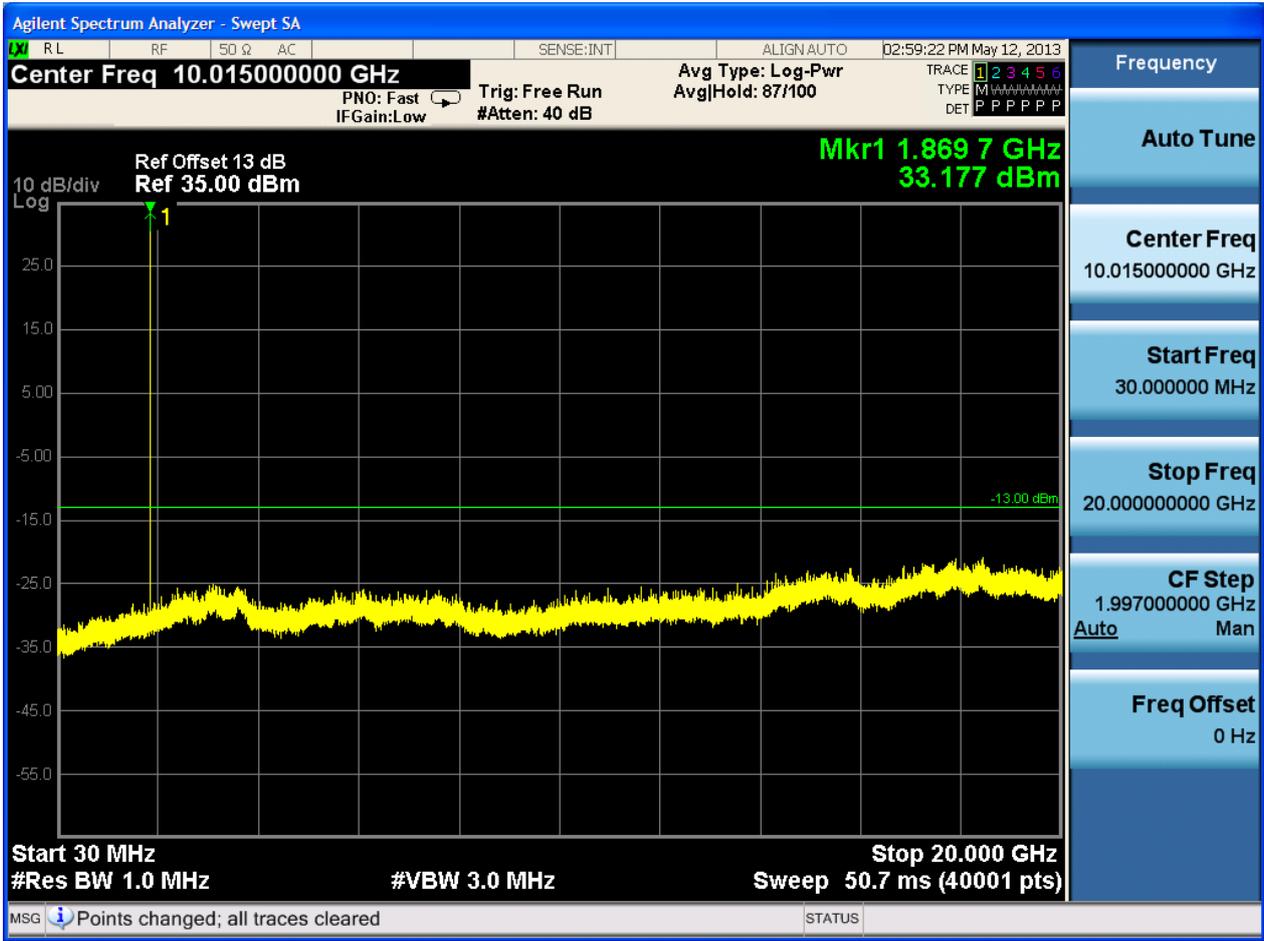






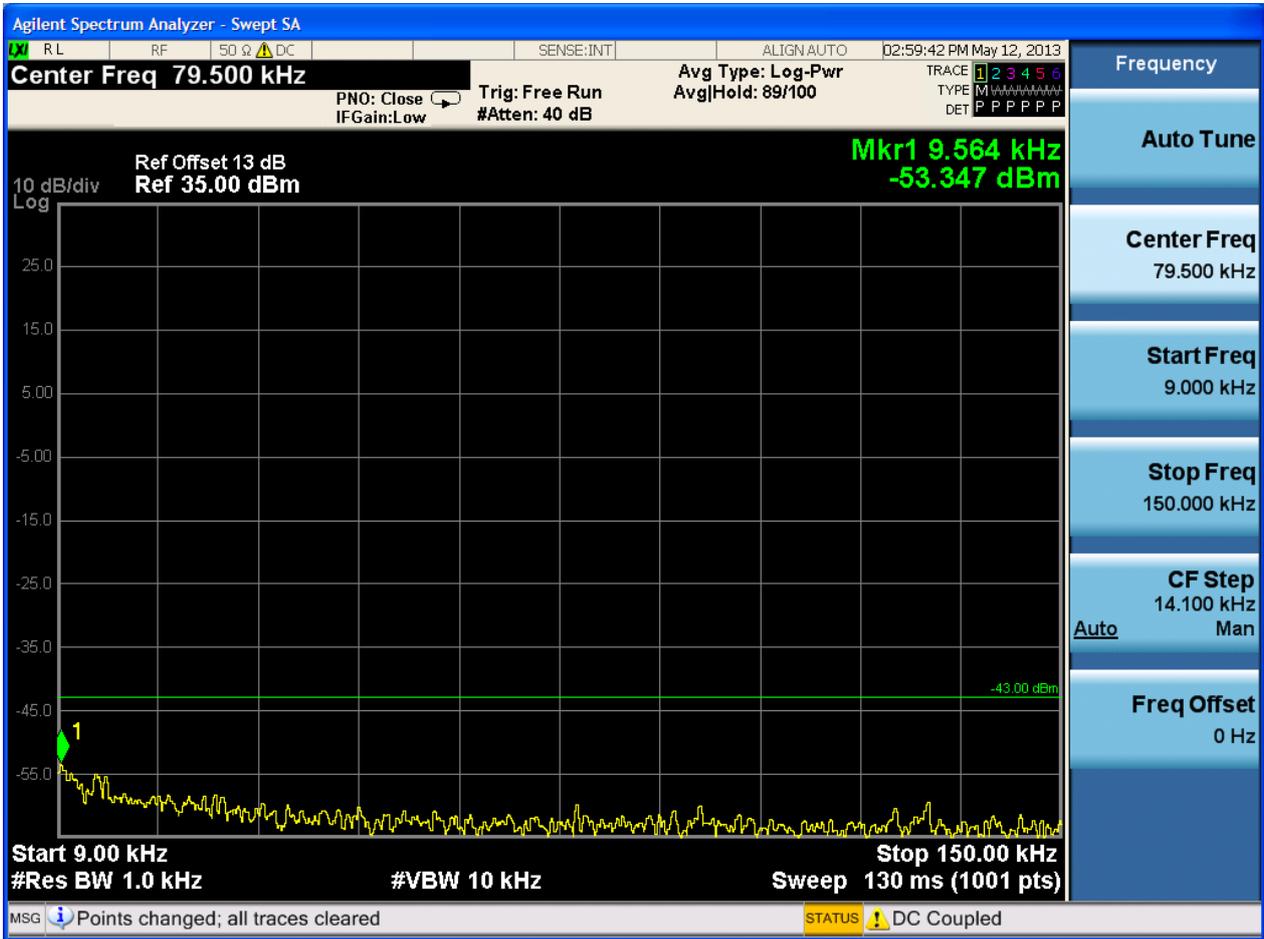
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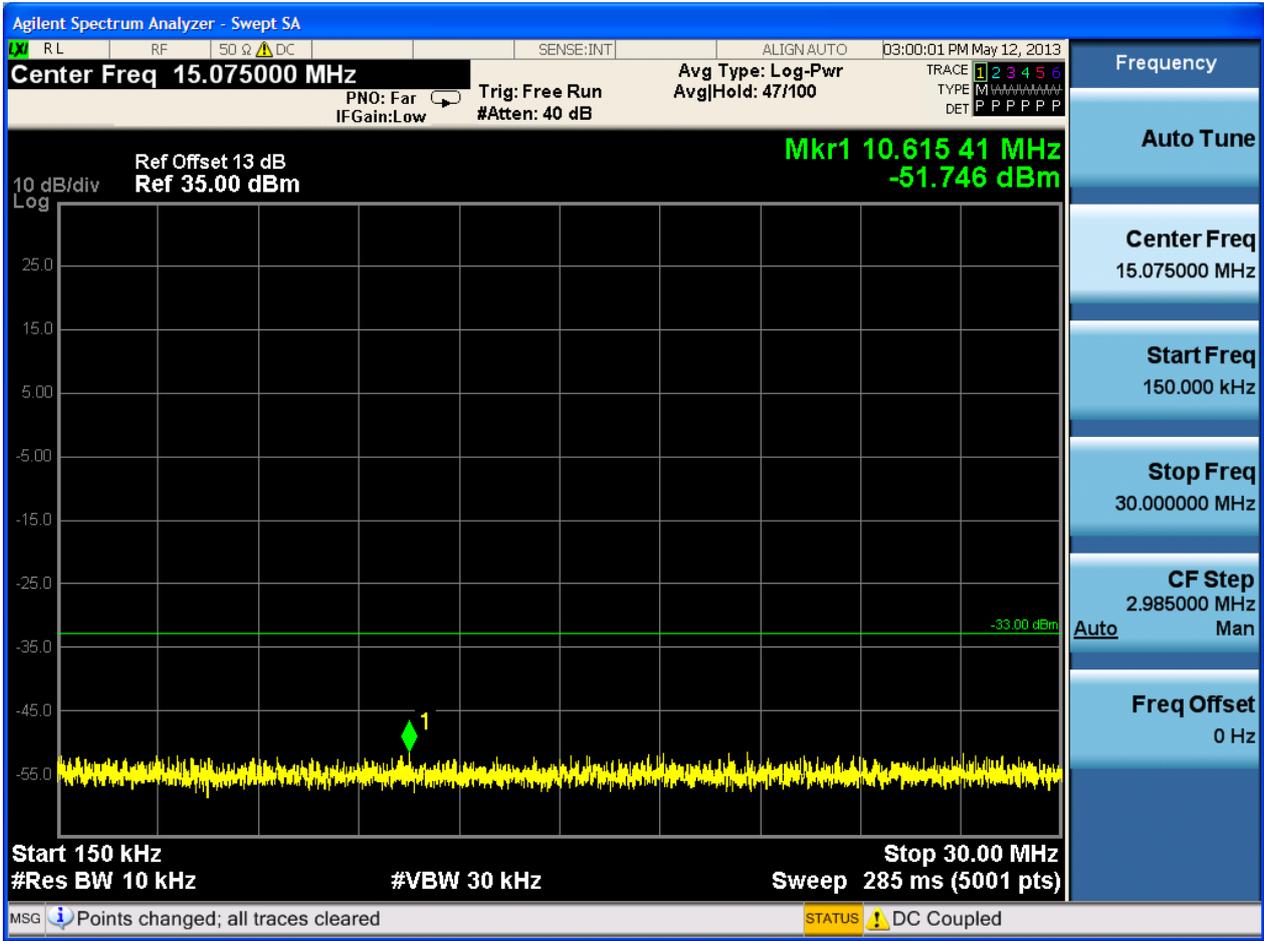


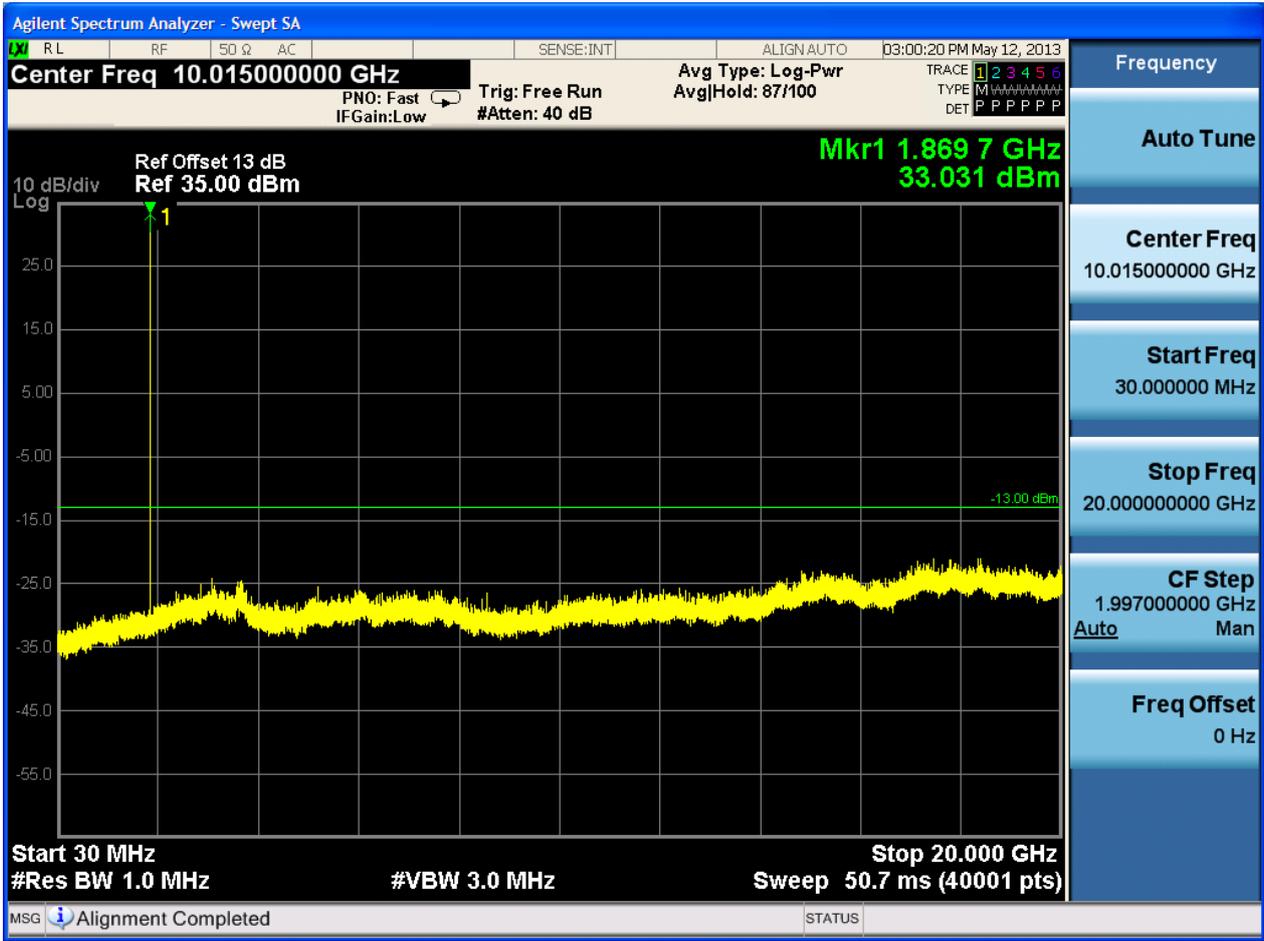




6.1.2.2.3 Test Channel = HCH







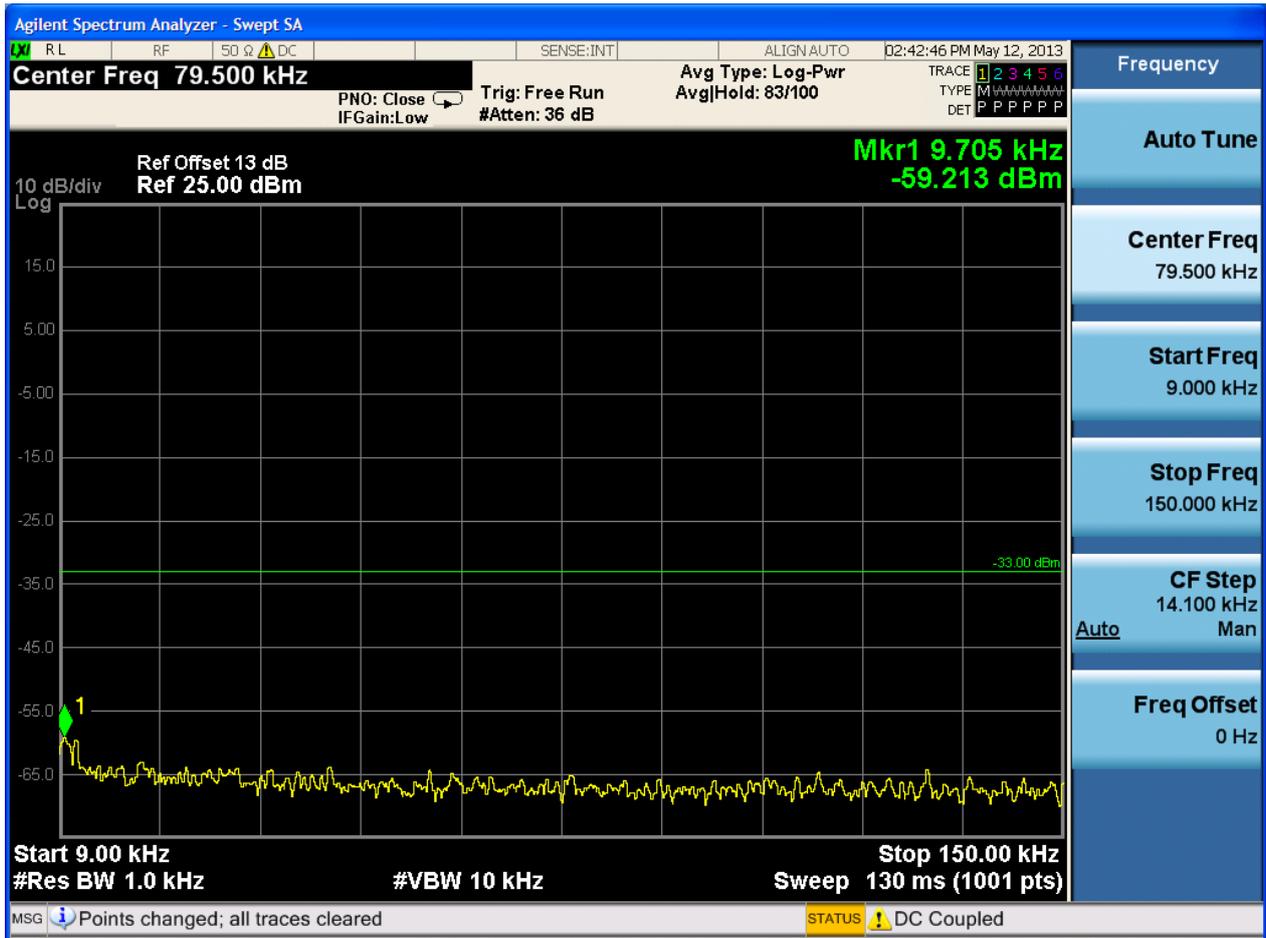


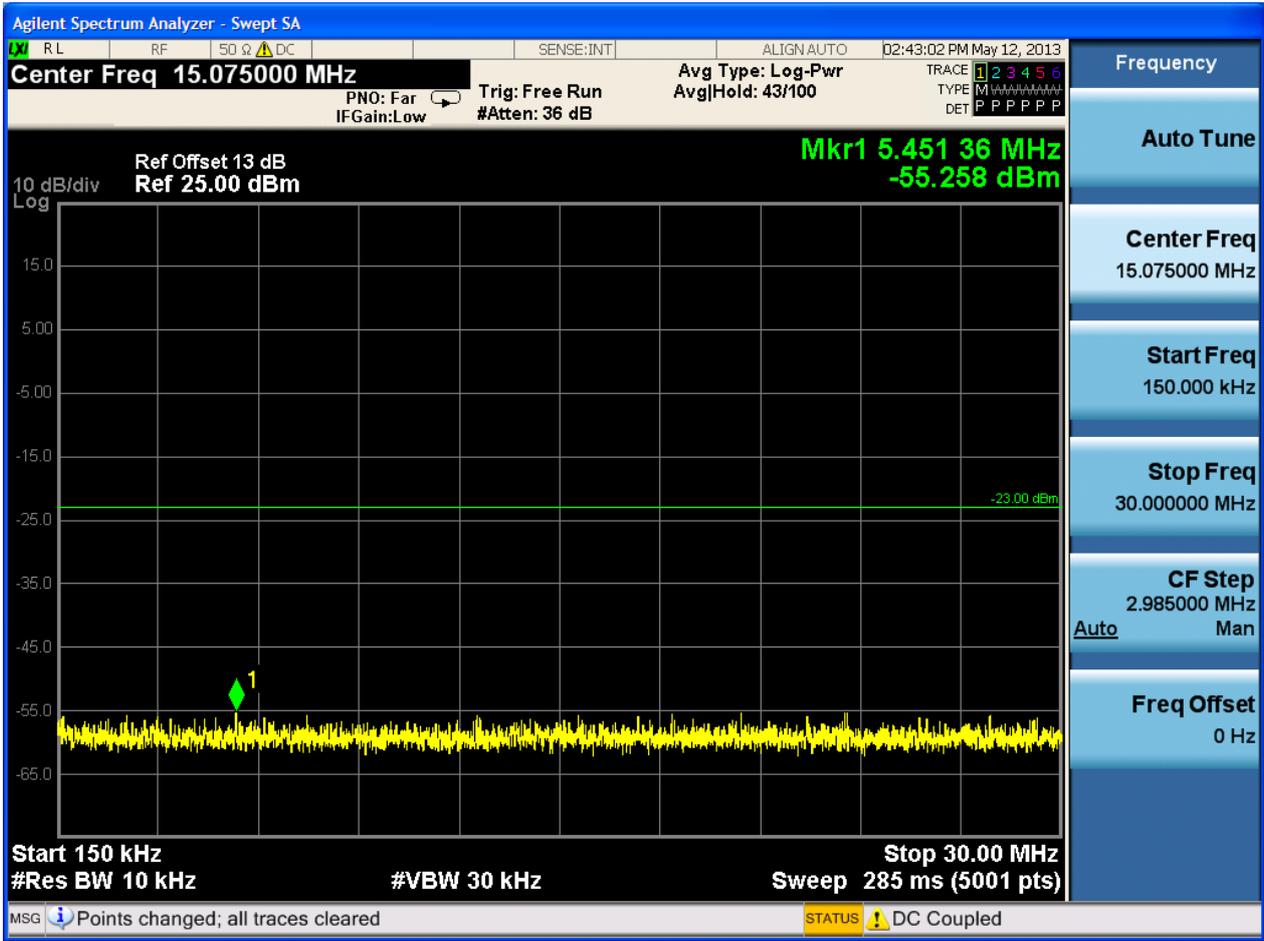
6.2 For UMTS

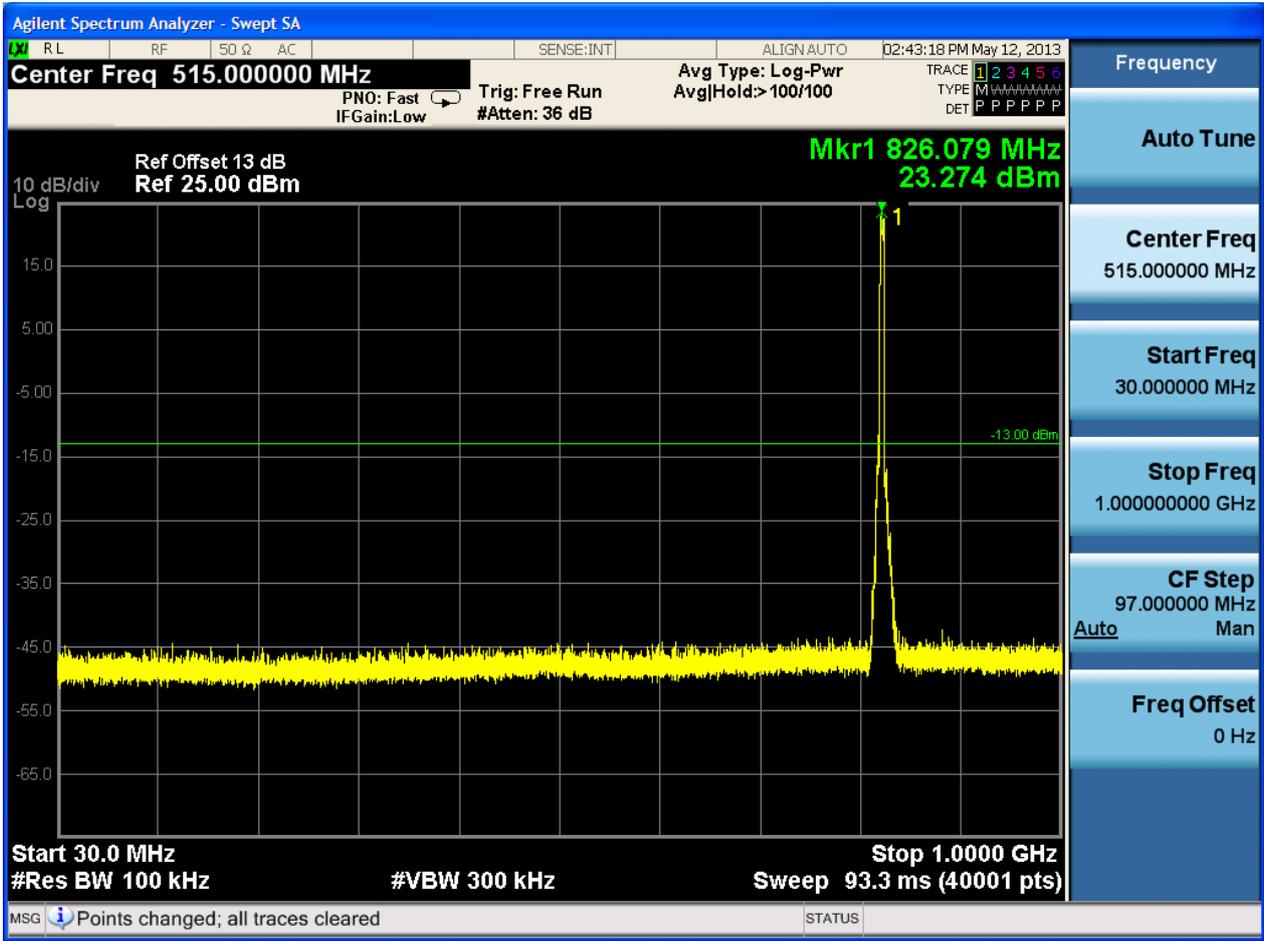
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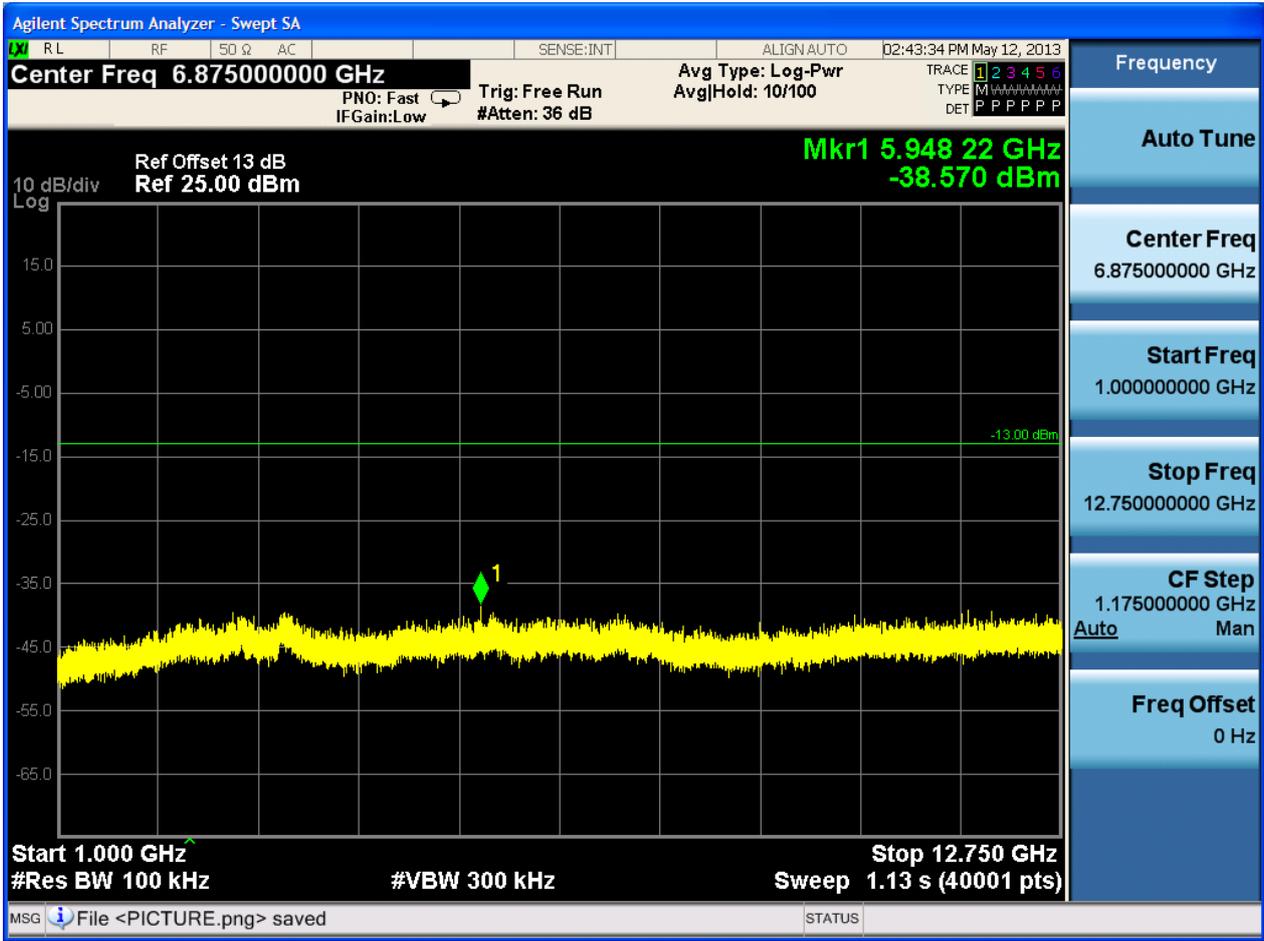
6.2.1.1 Test Mode = UMTS/TM1

6.2.1.1.1 Test Channel = LCH

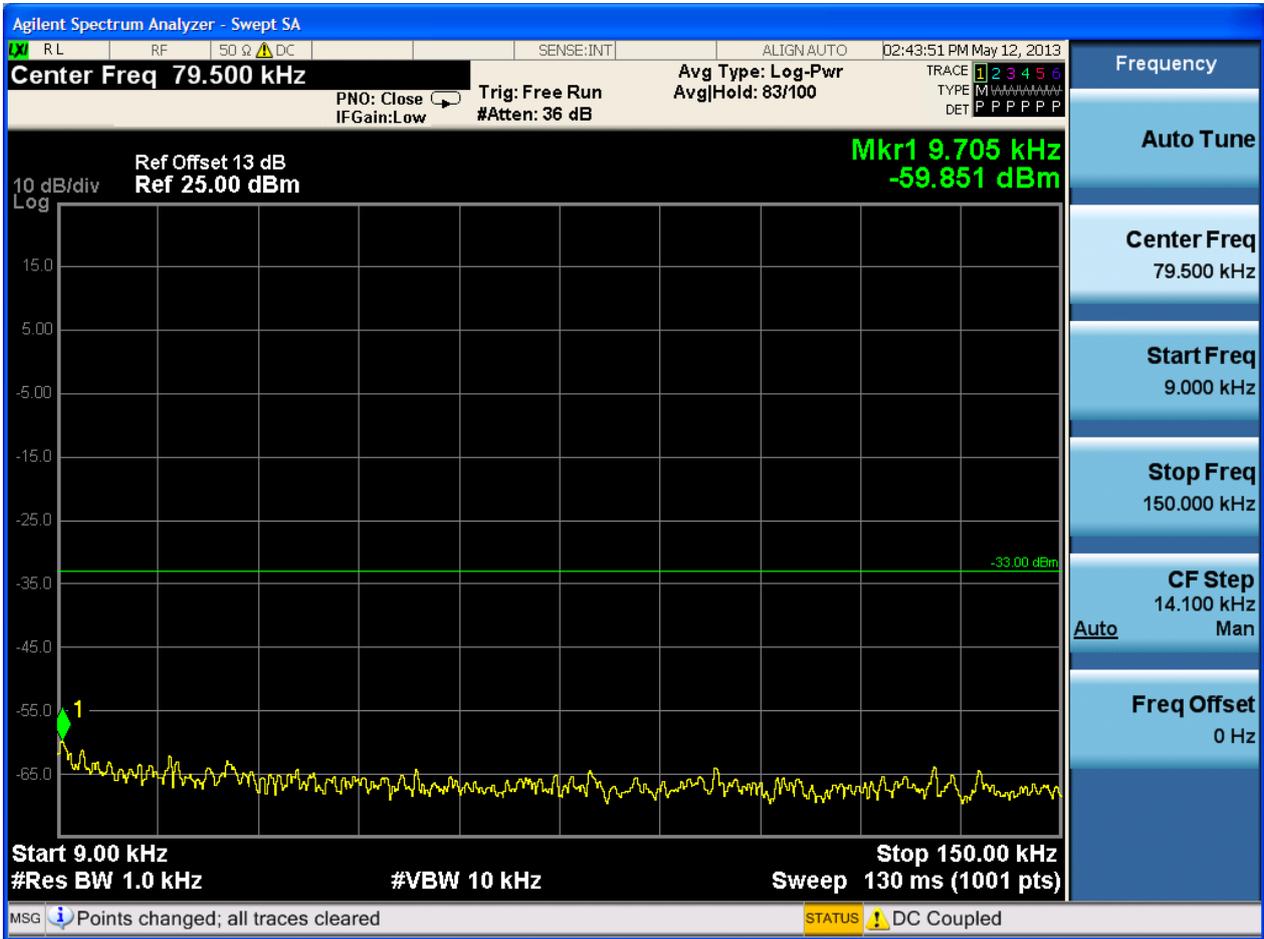


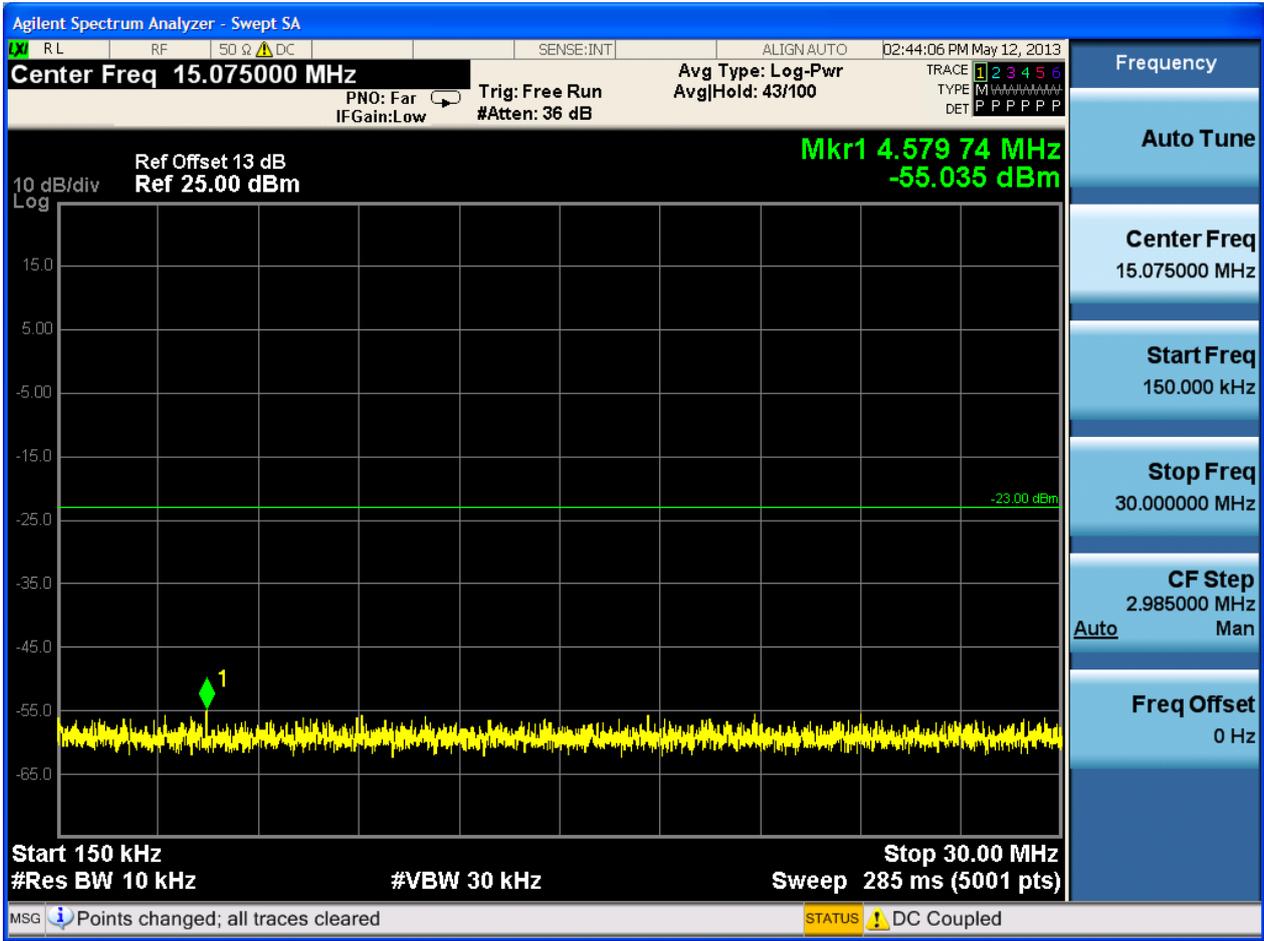


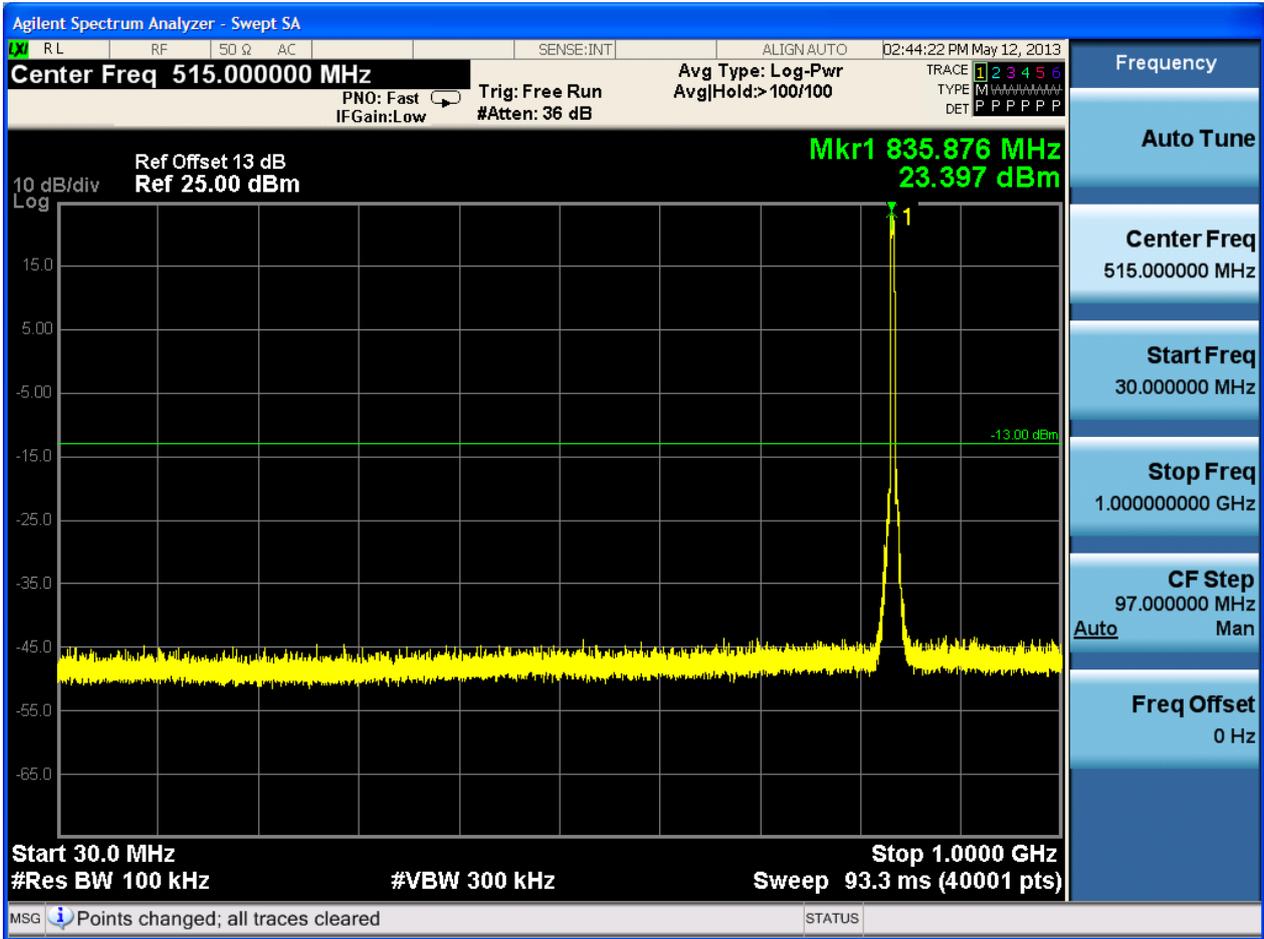


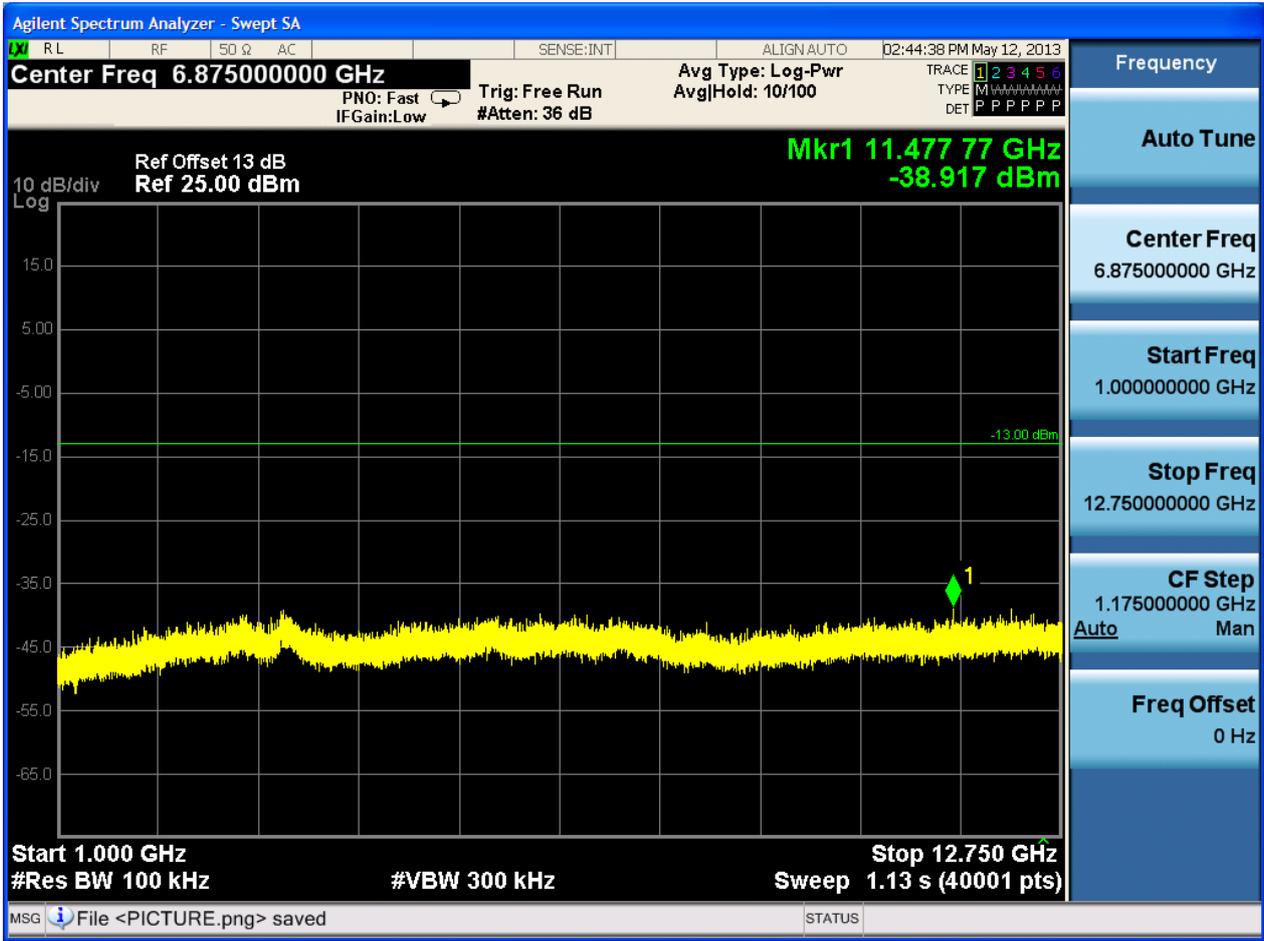


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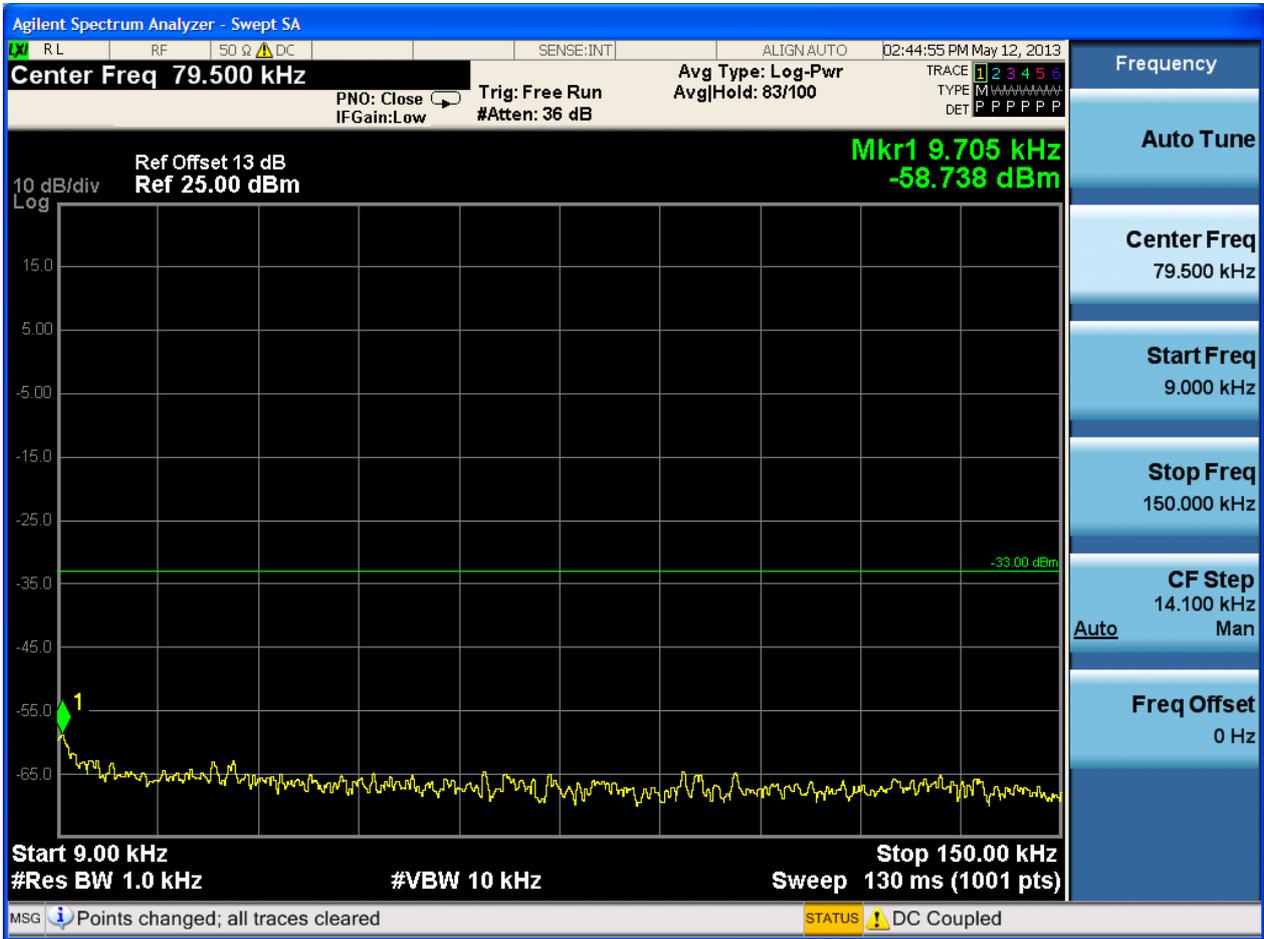


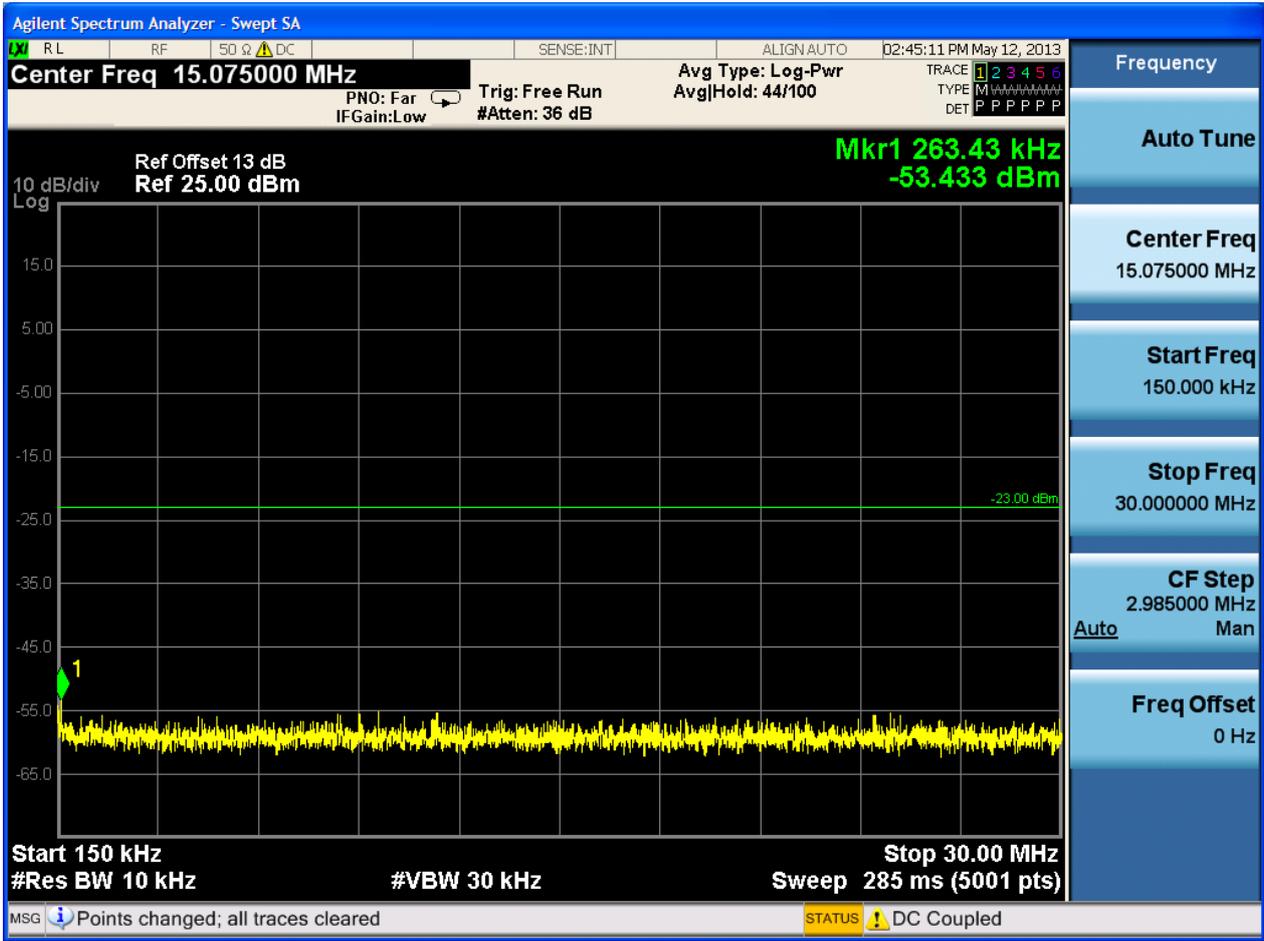


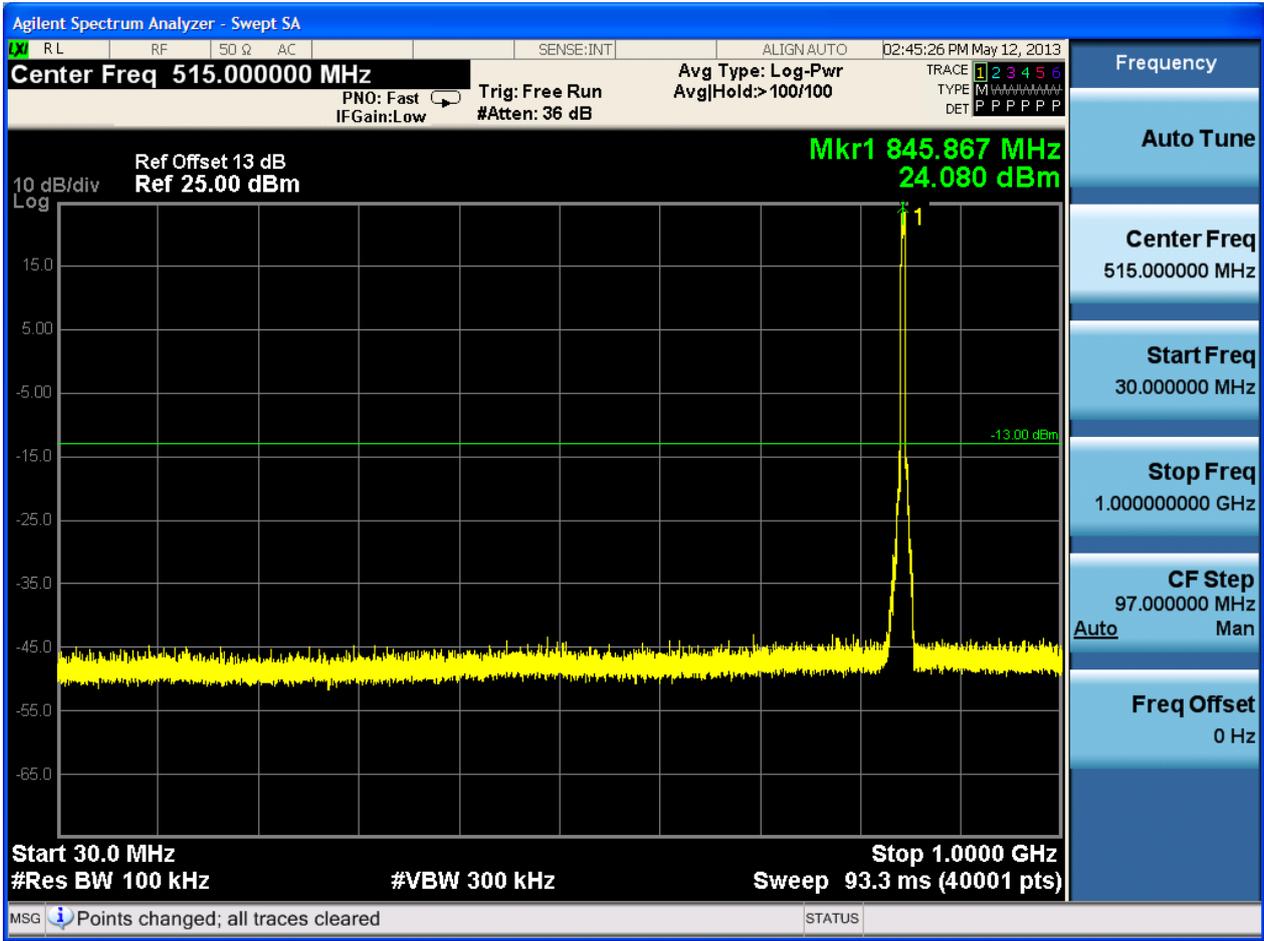


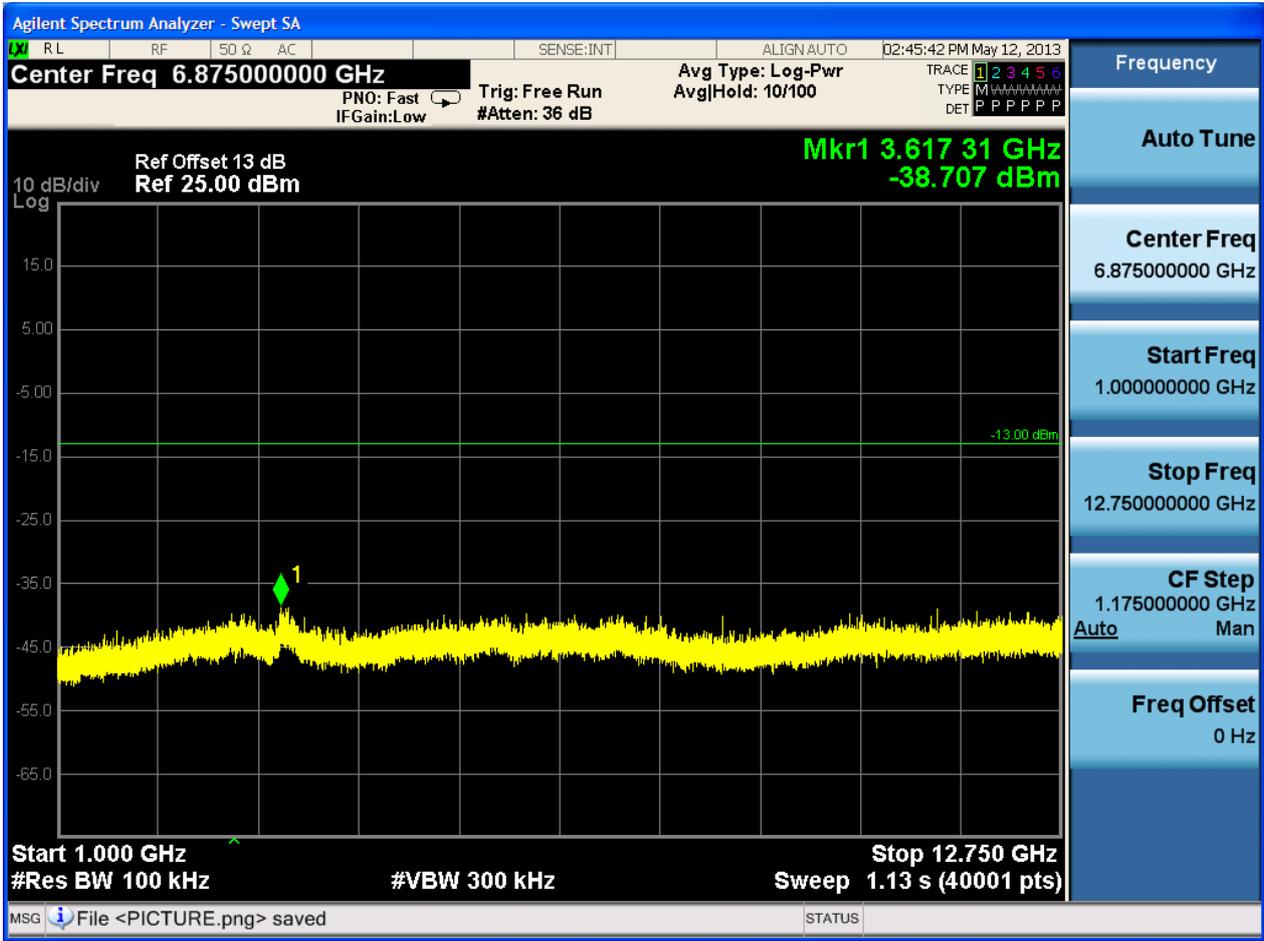


6.2.1.1.3 Test Channel = HCH







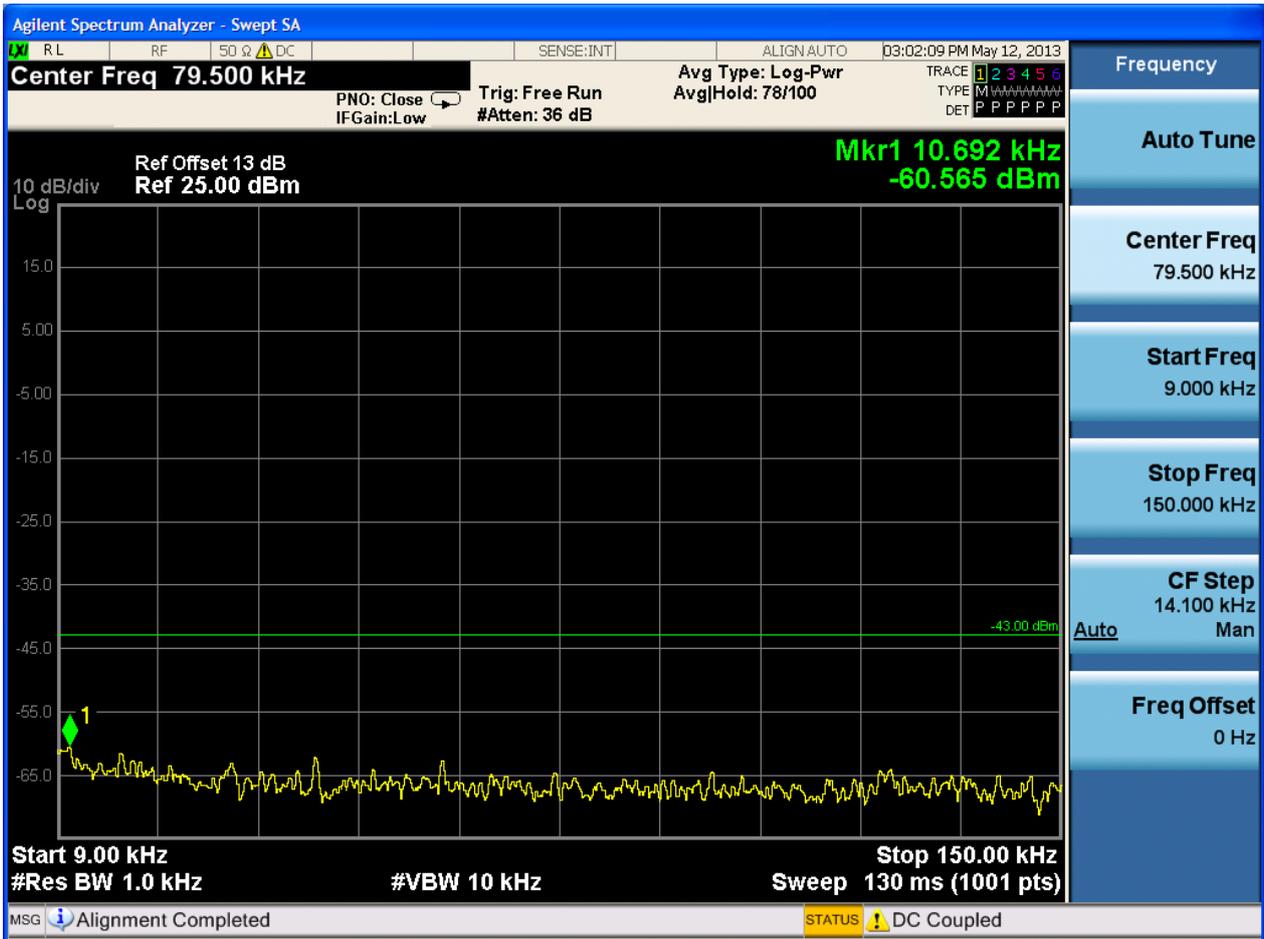


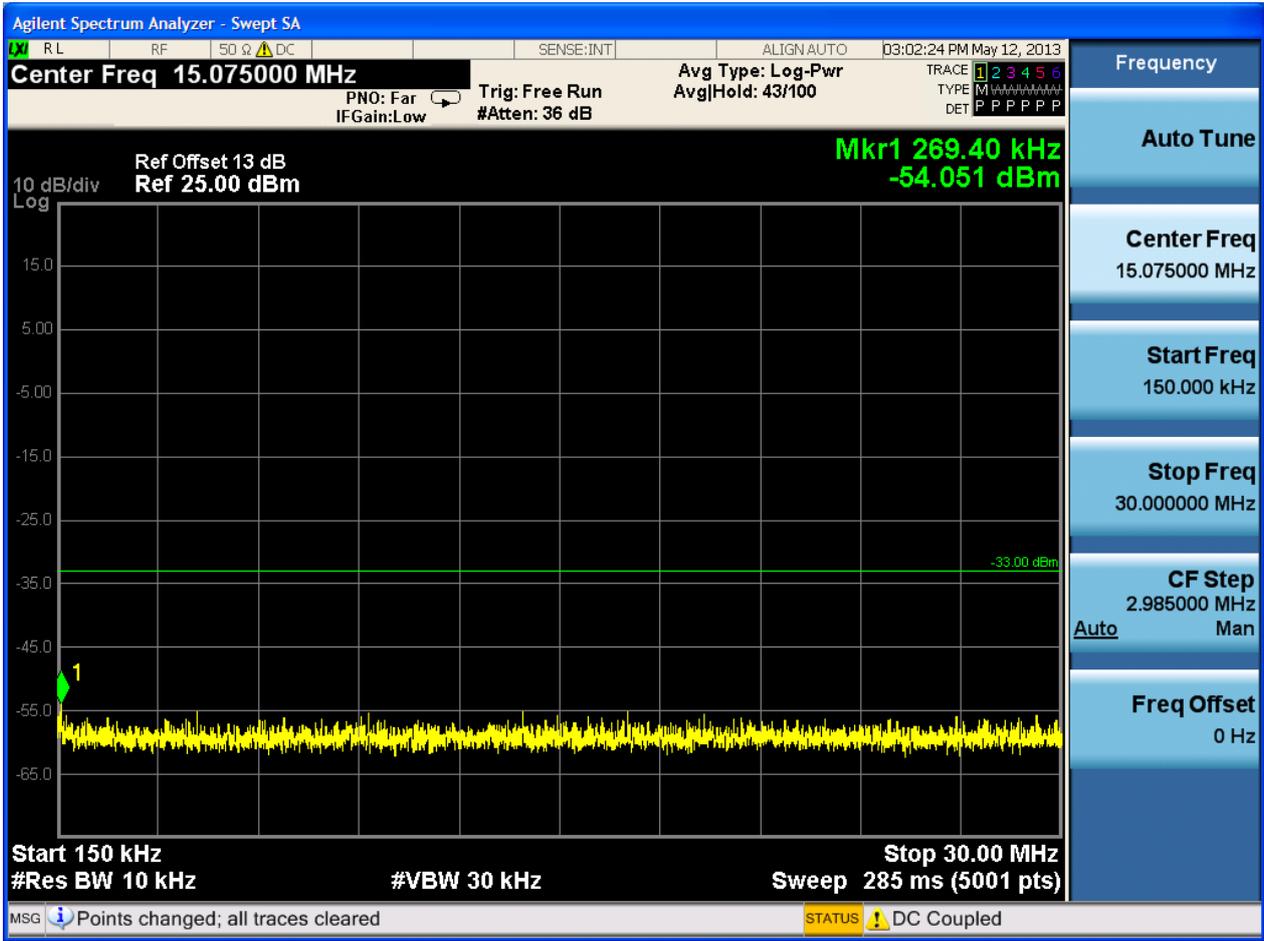


6.2.2 Test Band = WCDMA1900

6.2.2.1 Test Mode = UMTS/TM1

6.2.2.1.1 Test Channel = LCH

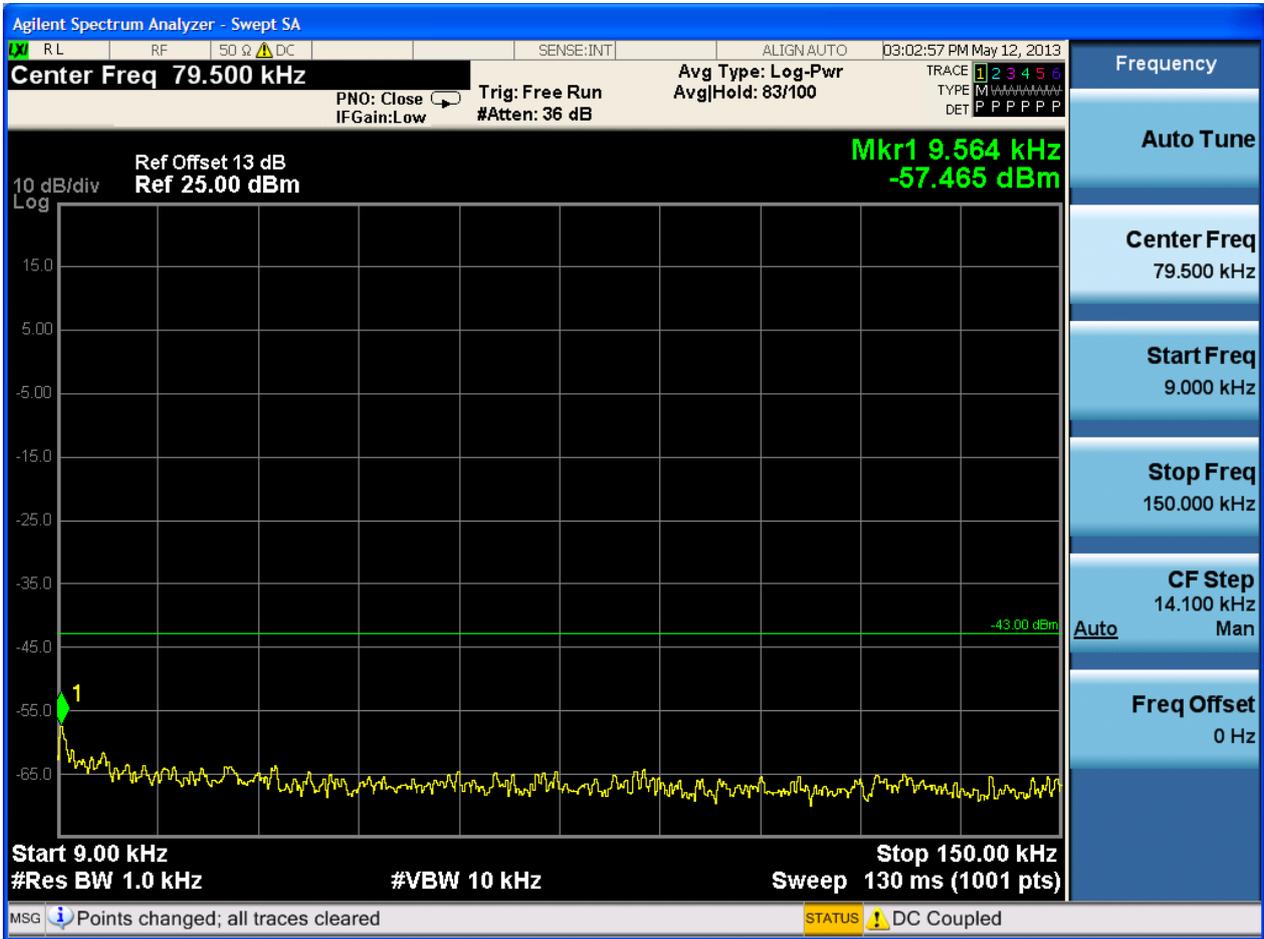


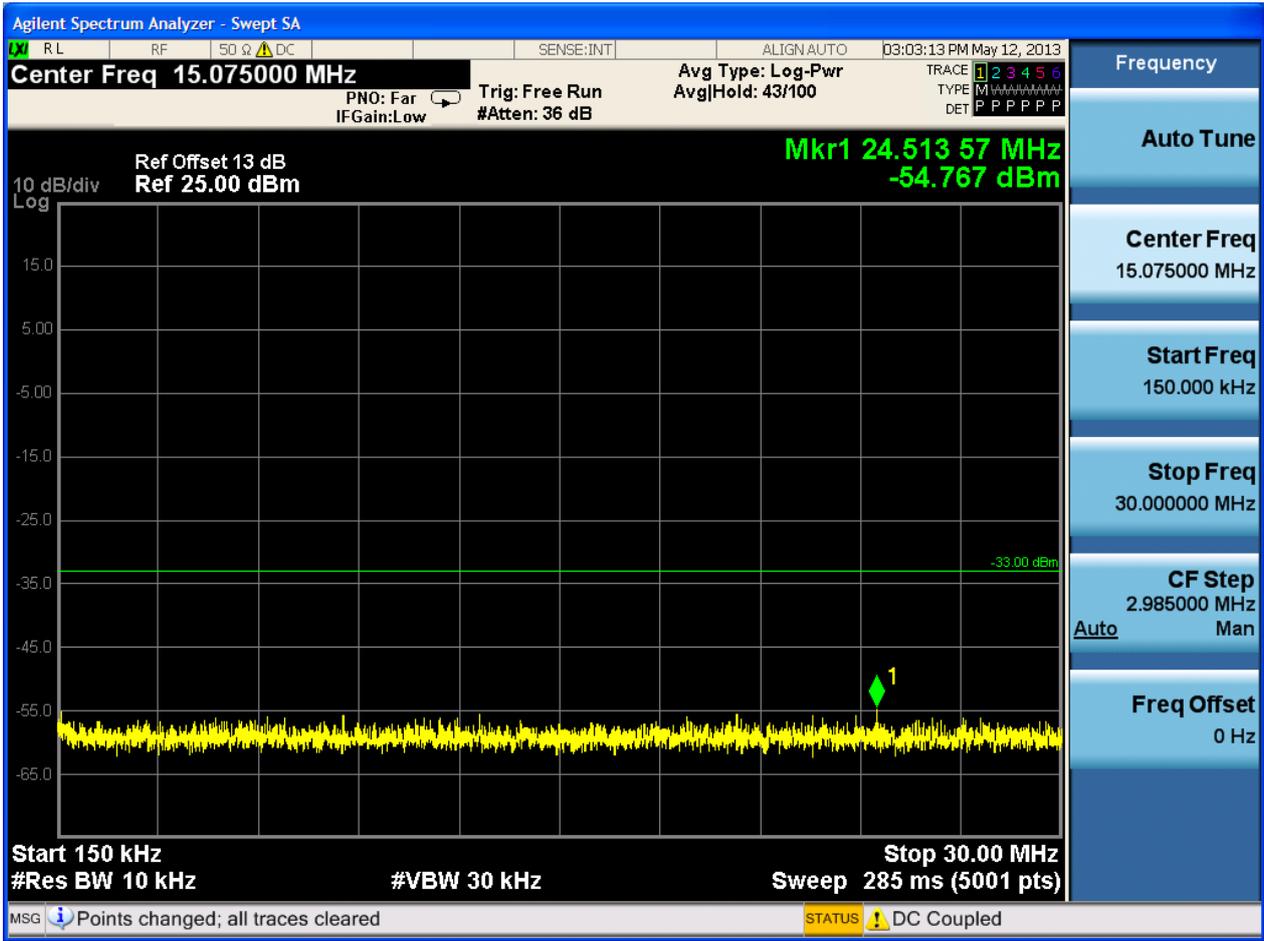






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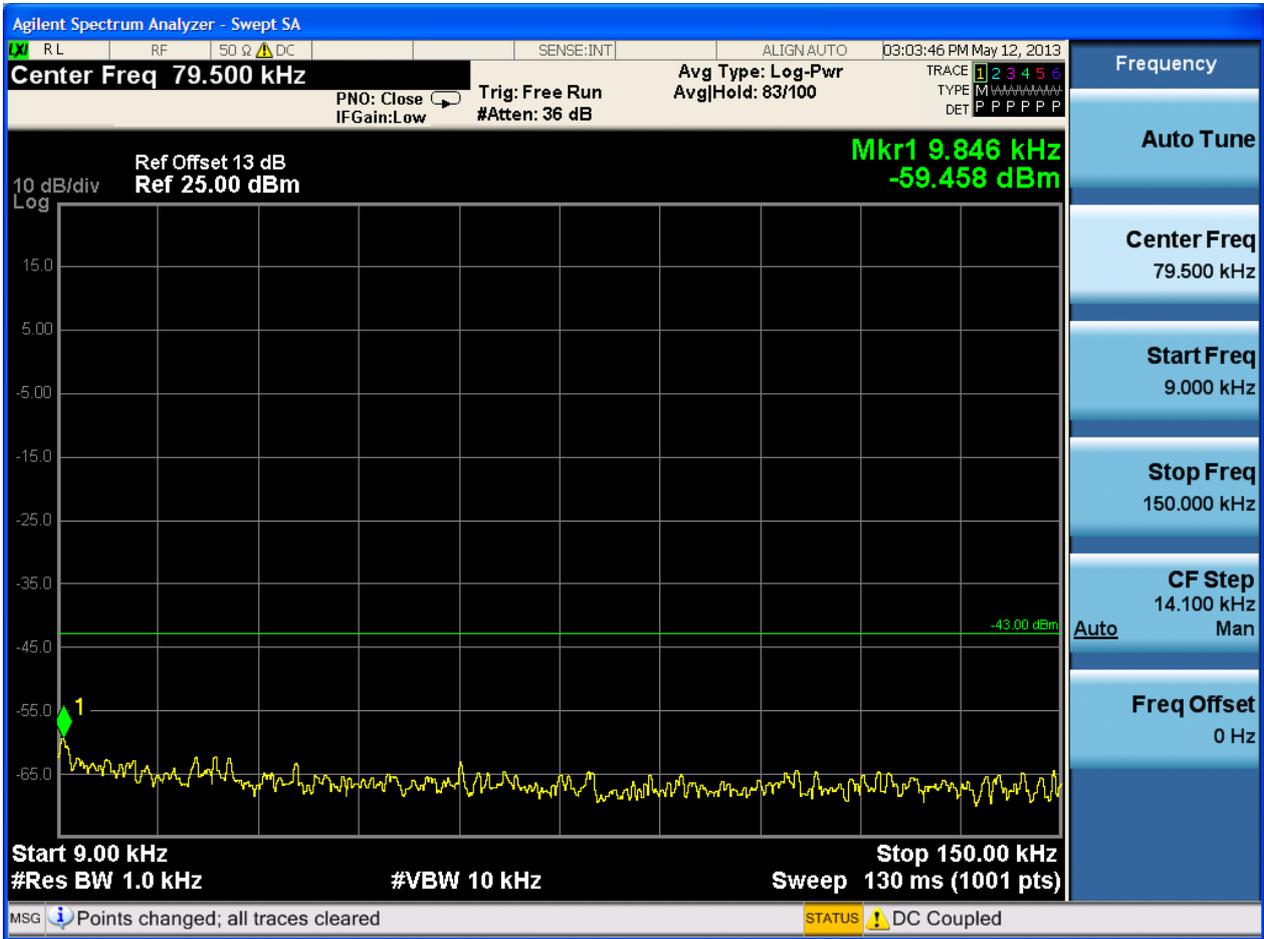


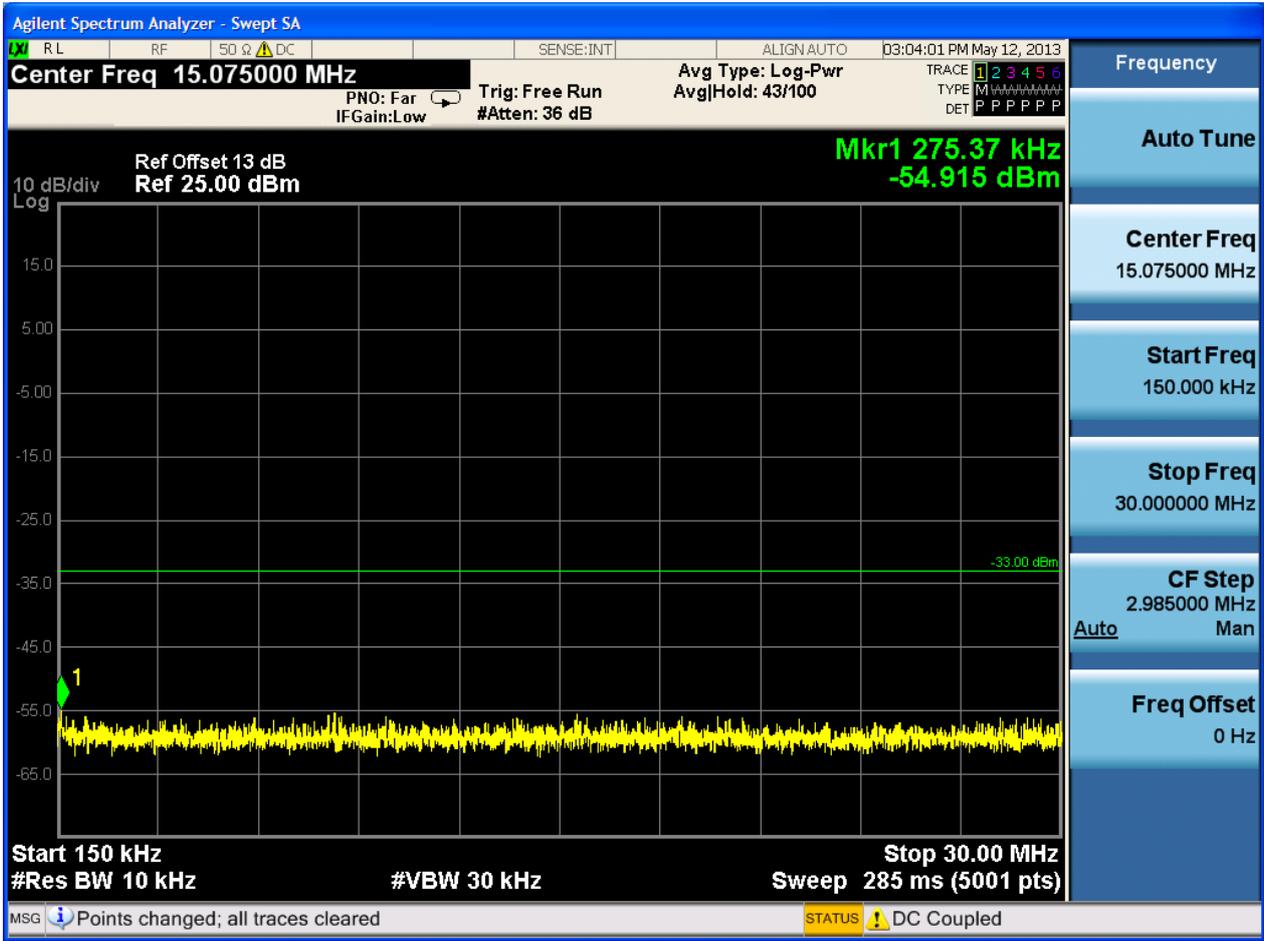


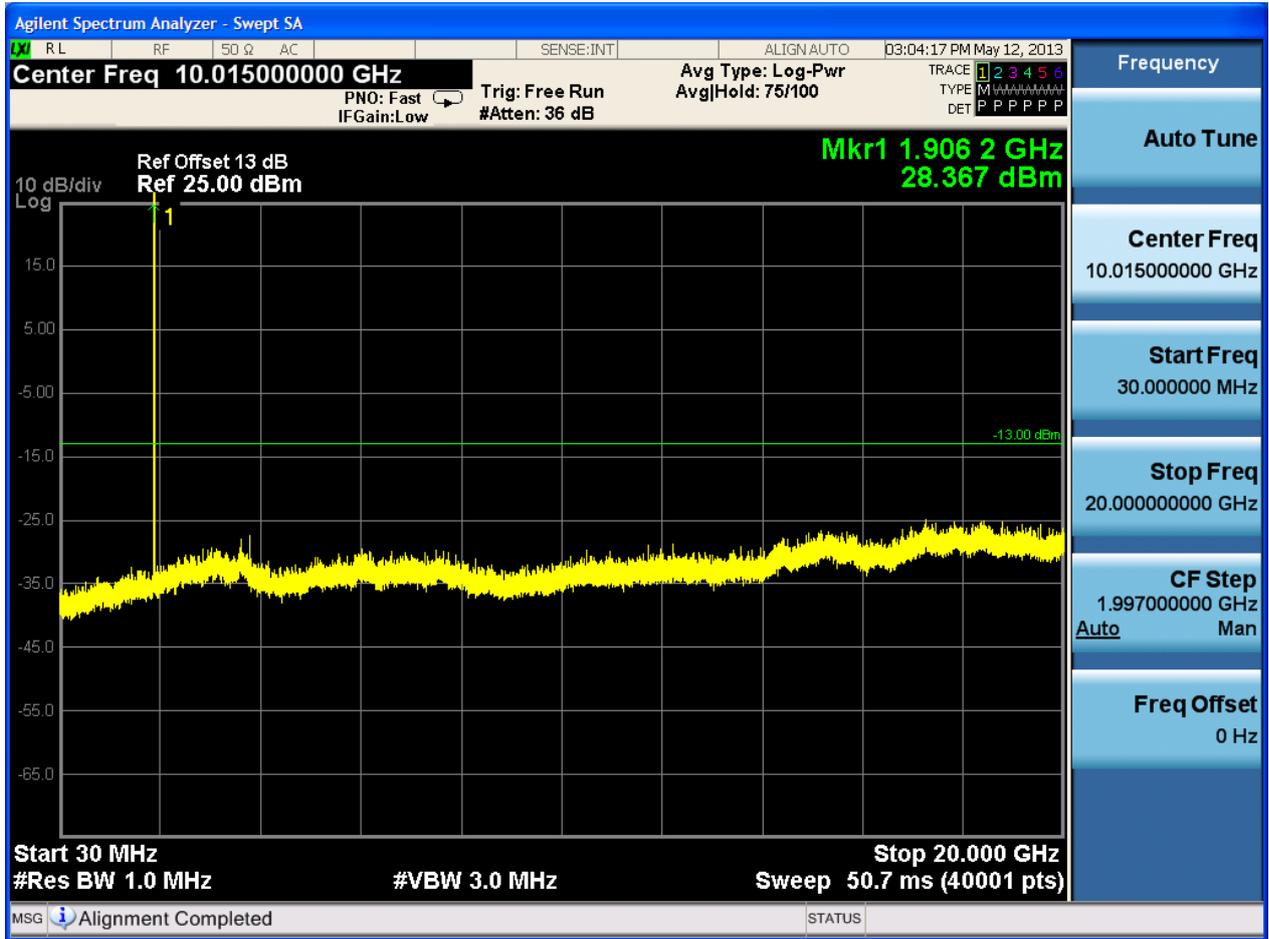




6.2.2.1.3 Test Channel = HCH







7Appendix_G: Field Strength of Spurious Radiation

Part I - Test Plots

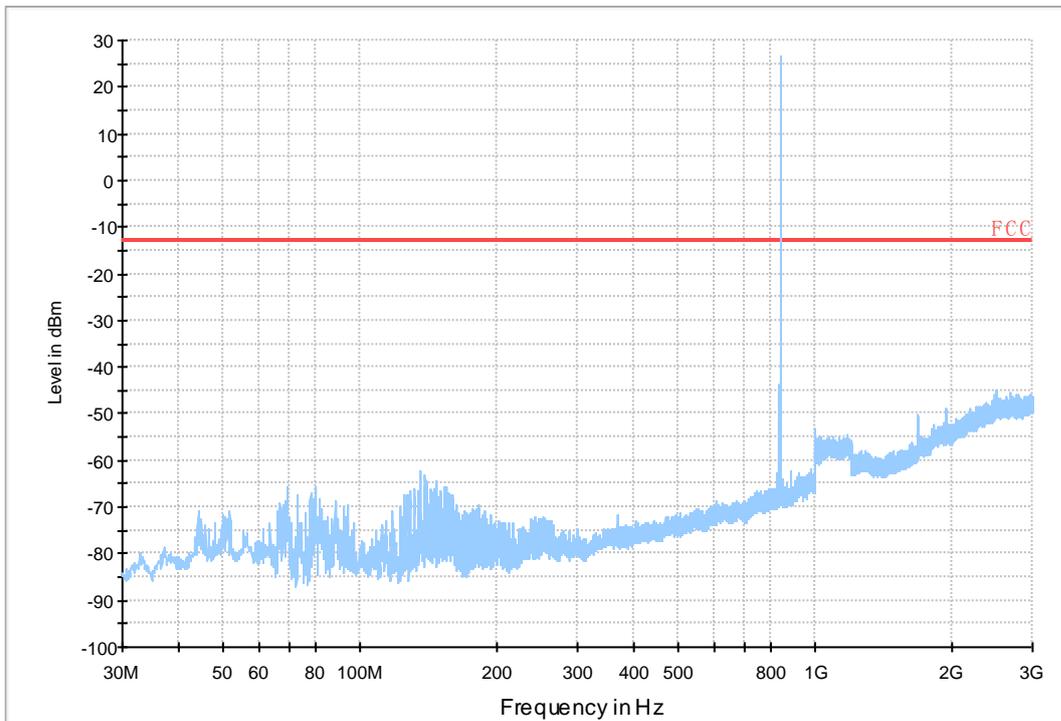
7.1 For GSM

7.1.1 Test Band = GSM850

7.1.1.1 Test Mode = GSM/TM1

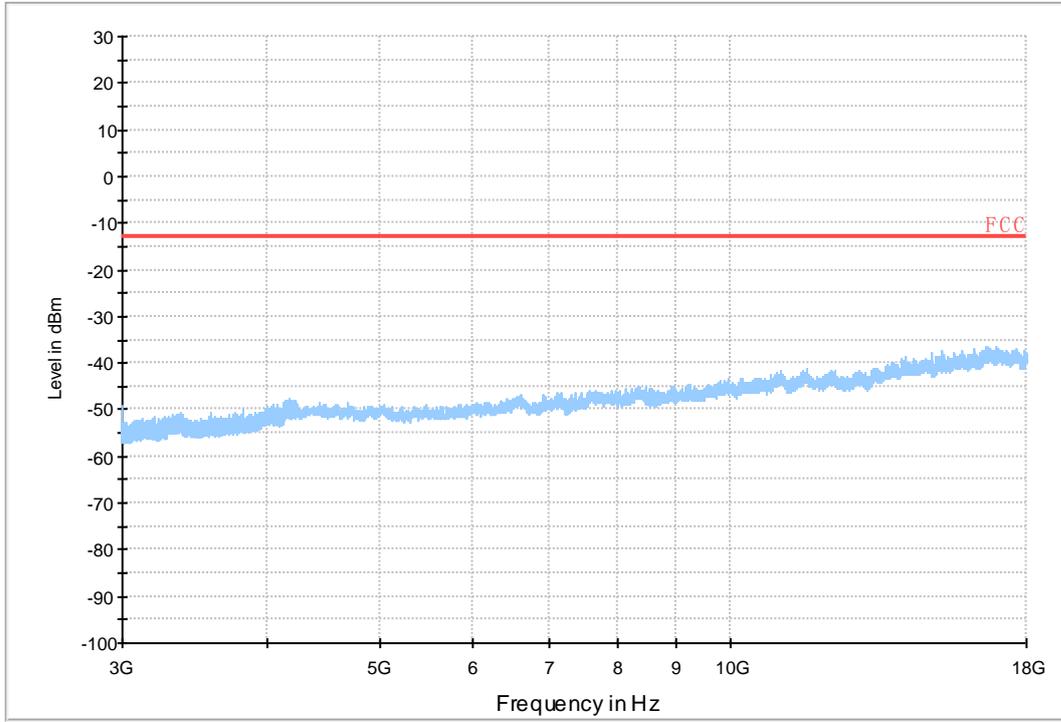
GPRS850_DCM-1

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GPRS850_DCM-2

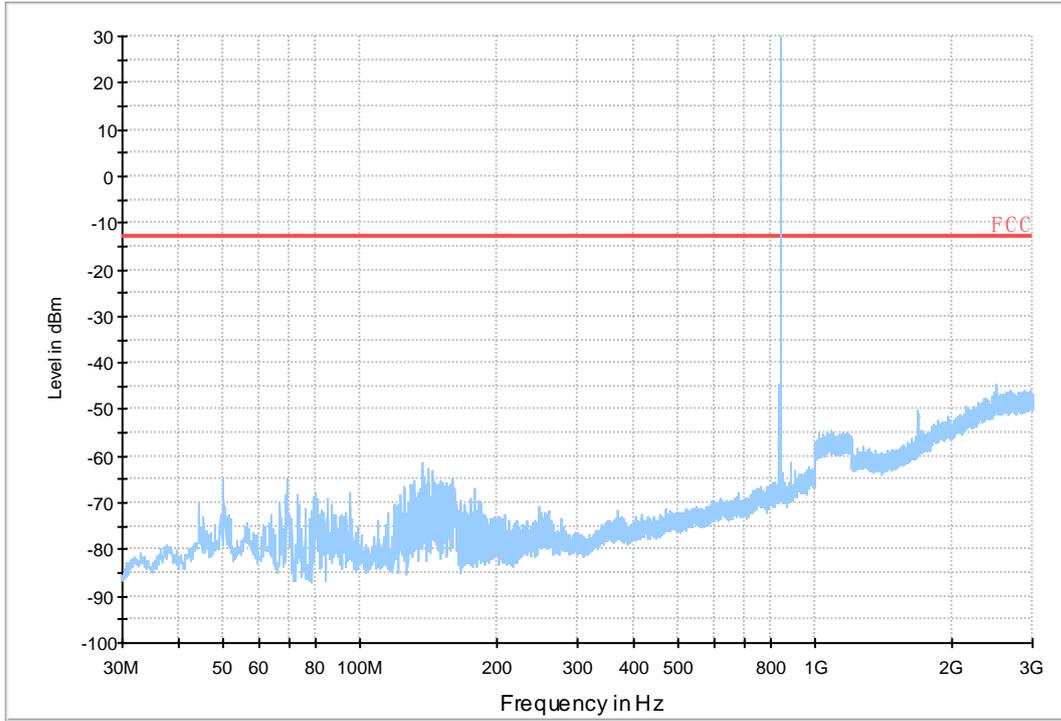
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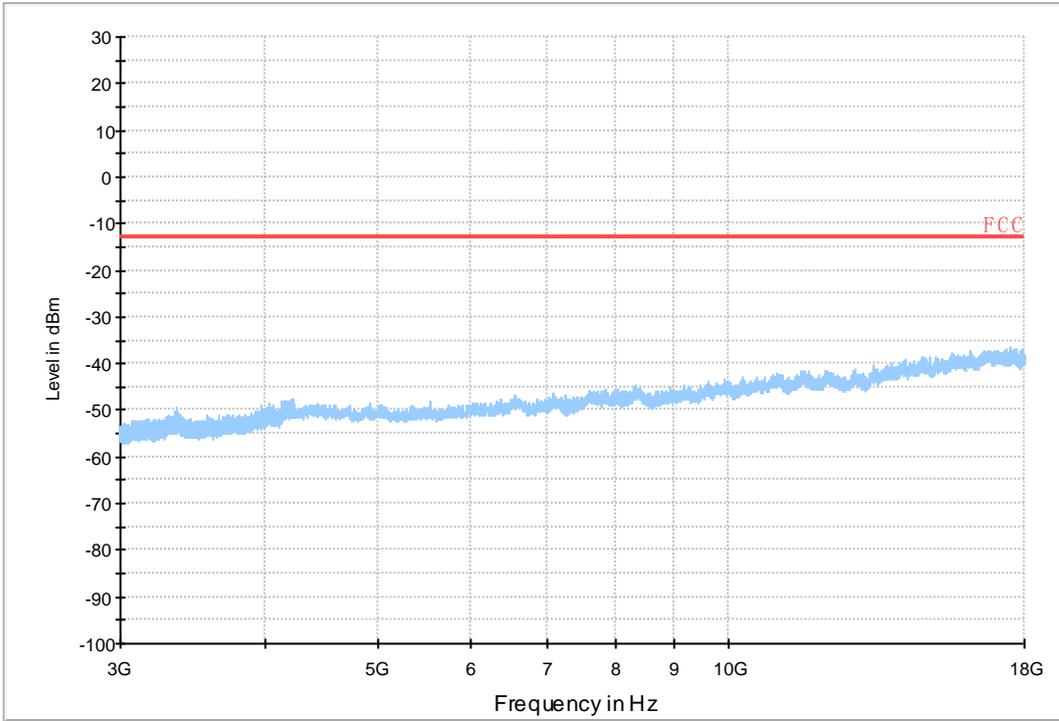
EDGE850_DCM-1

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EDGE850_DCM-2

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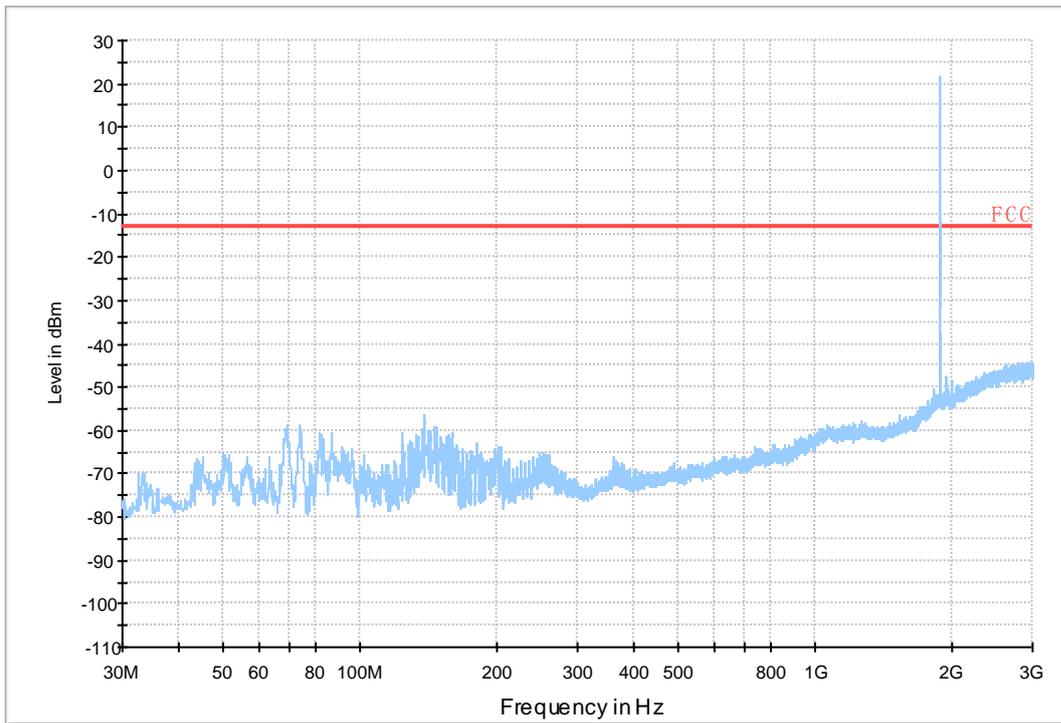


7.1.2 Test Band = GSM1900

7.1.2.1 Test Mode = GSM/TM1

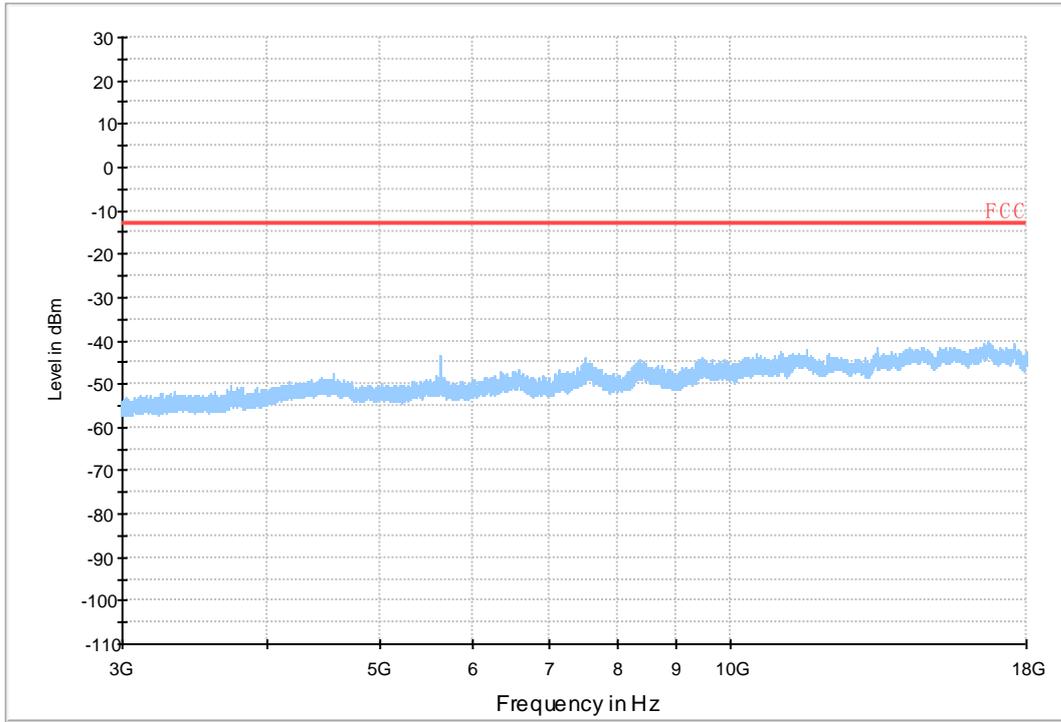
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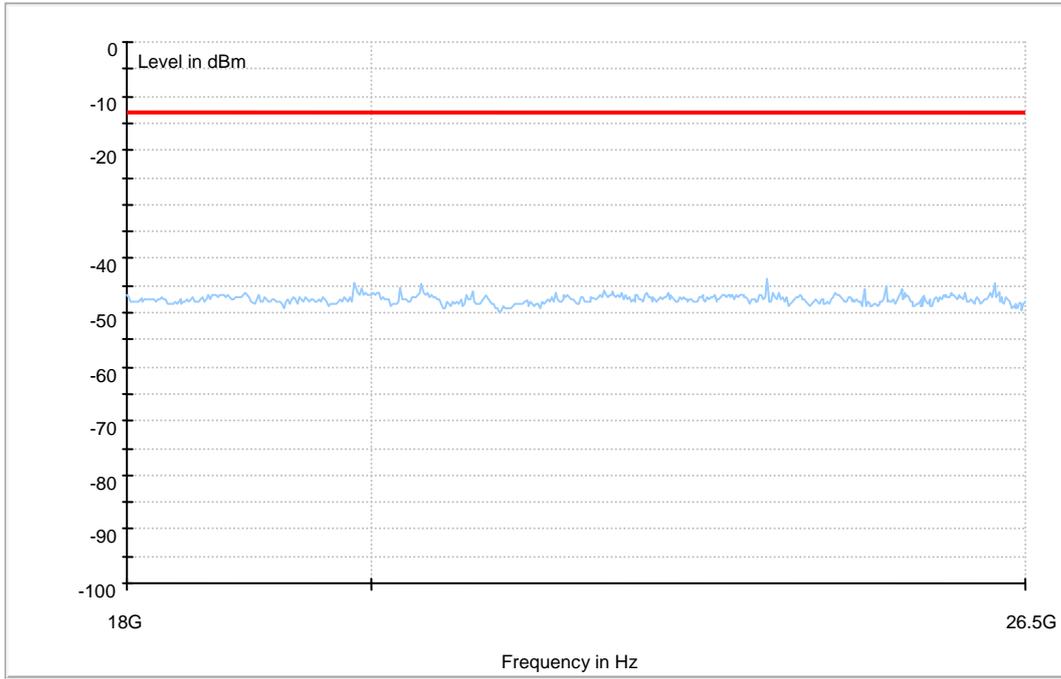


GPRS1900_DCM-2

Copy of FCC PART24 GSM1900_H



GPRS1900_DCM-3

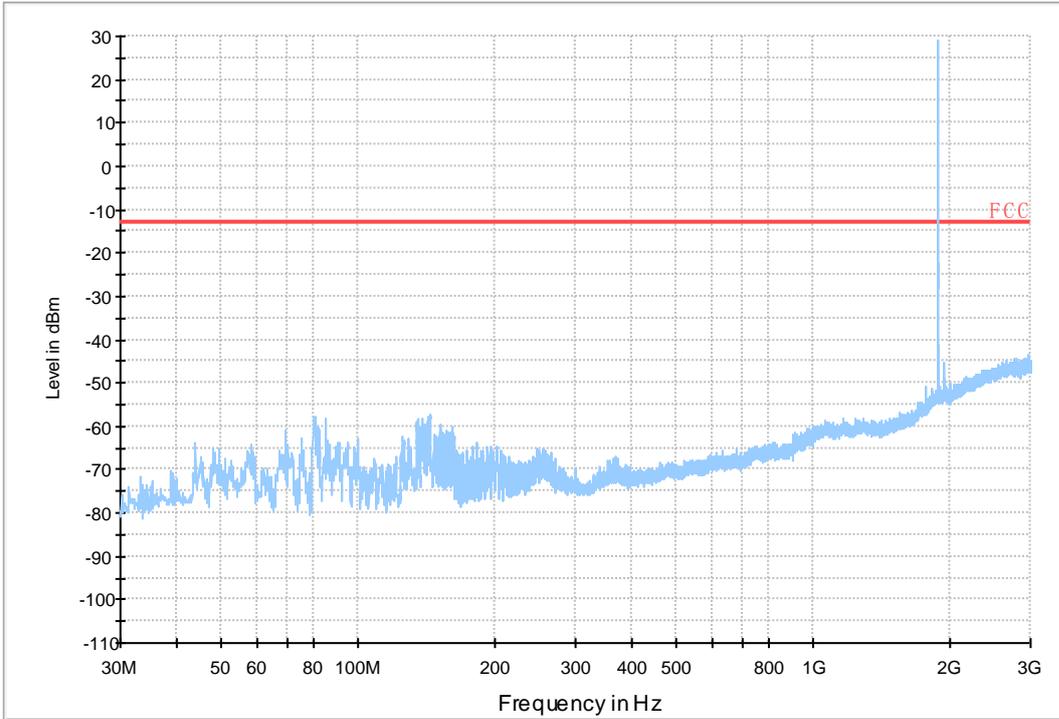




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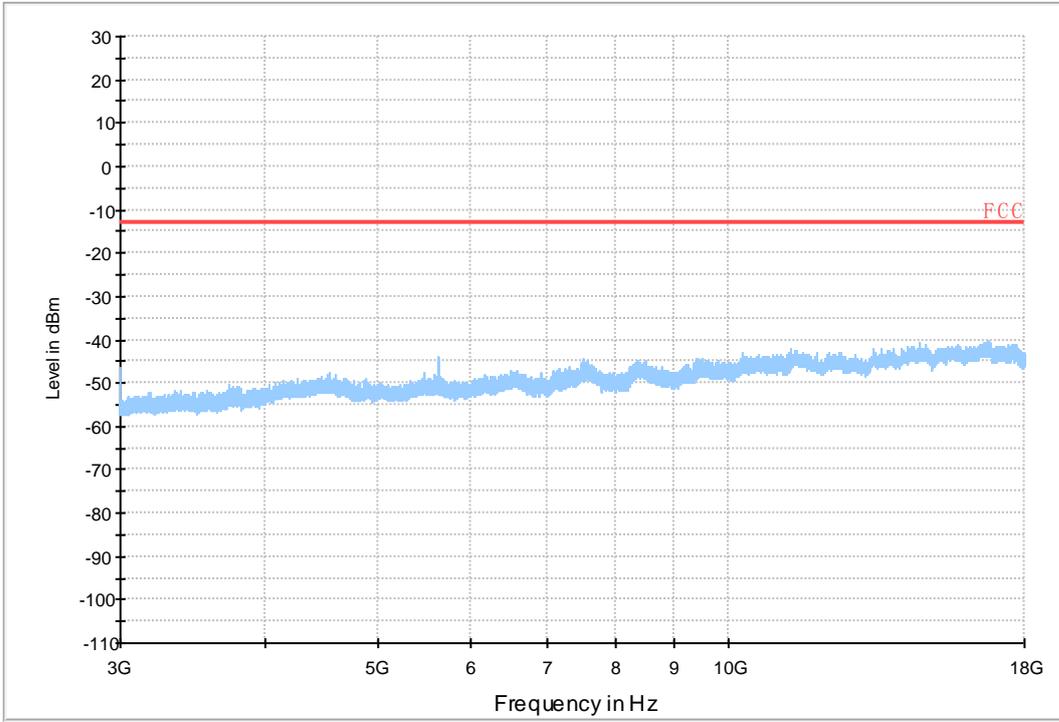
EDGE1900_DCM-1

Copy of FCC PART24 GSM1900_L

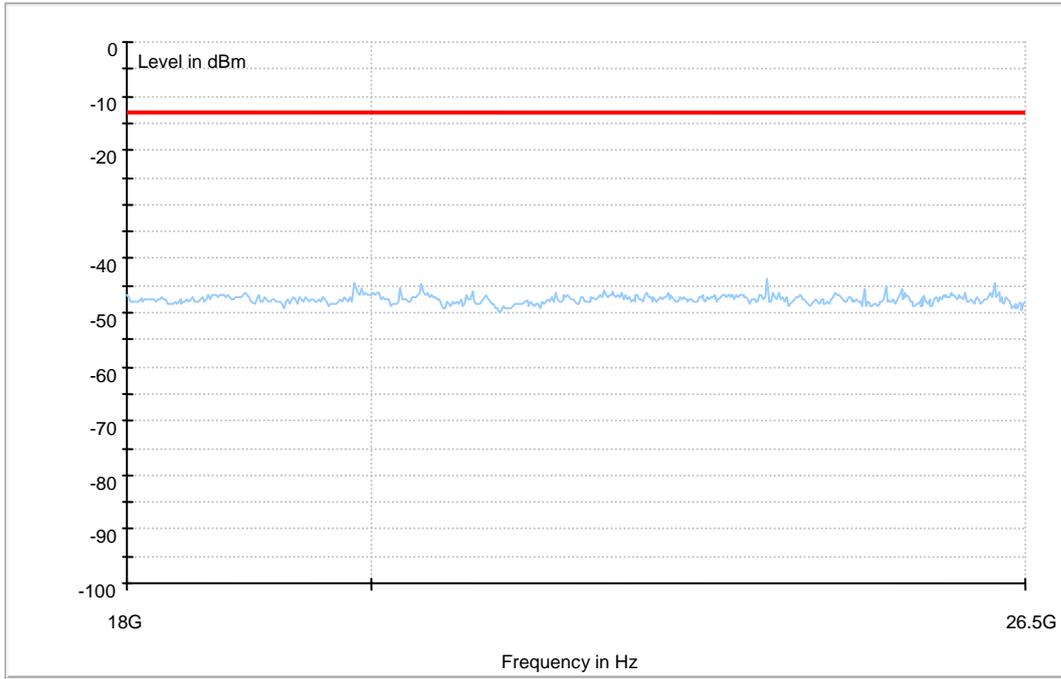


EDGE1900_DCM-2

Copy of FCC PART24 GSM1900_H



EDGE1900_DCM-3



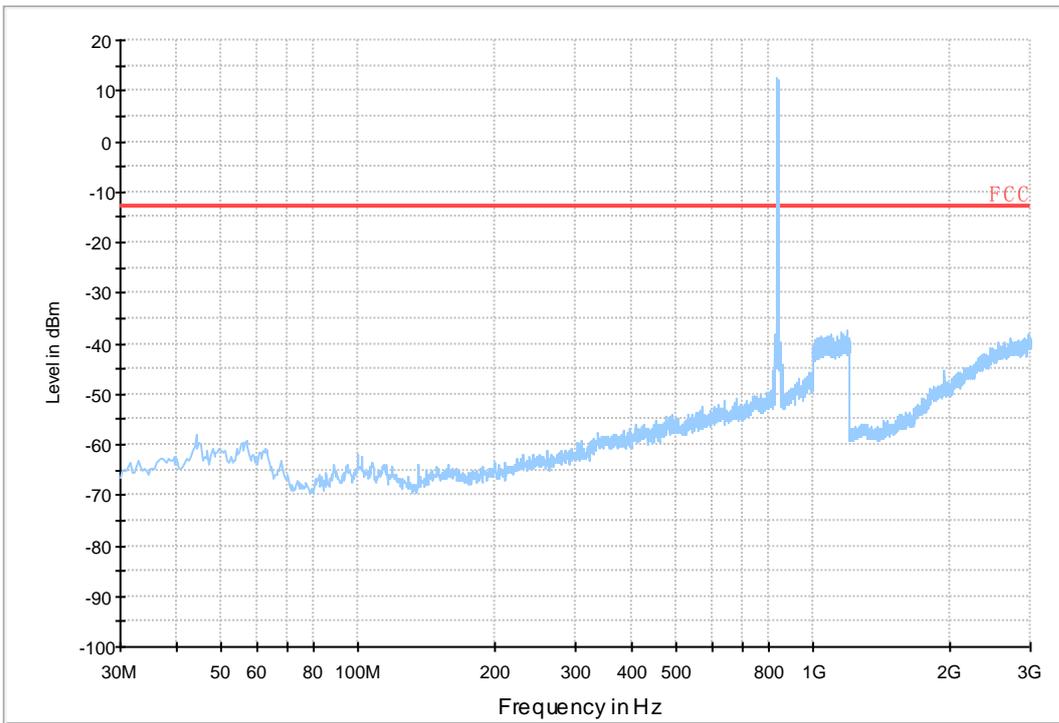
7.2 For UMTS

7.2.1 Test Band = WCDMA850

7.2.1.1 Test Mode = UMTS/TM1

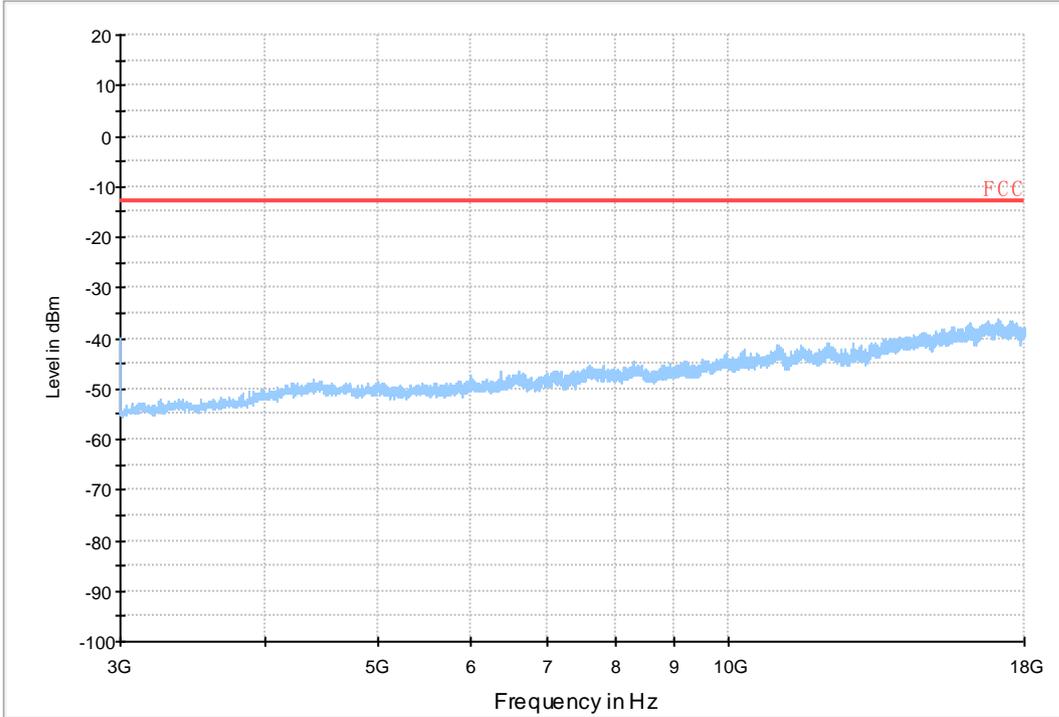
WCDMA850_DCM-1

Copy of RSE-TX-DIRECTOR BELOW 1G_L



WCDMA850_DCM-2

Copy of RSE-TX-DIRECTOR BELOW 1G_H

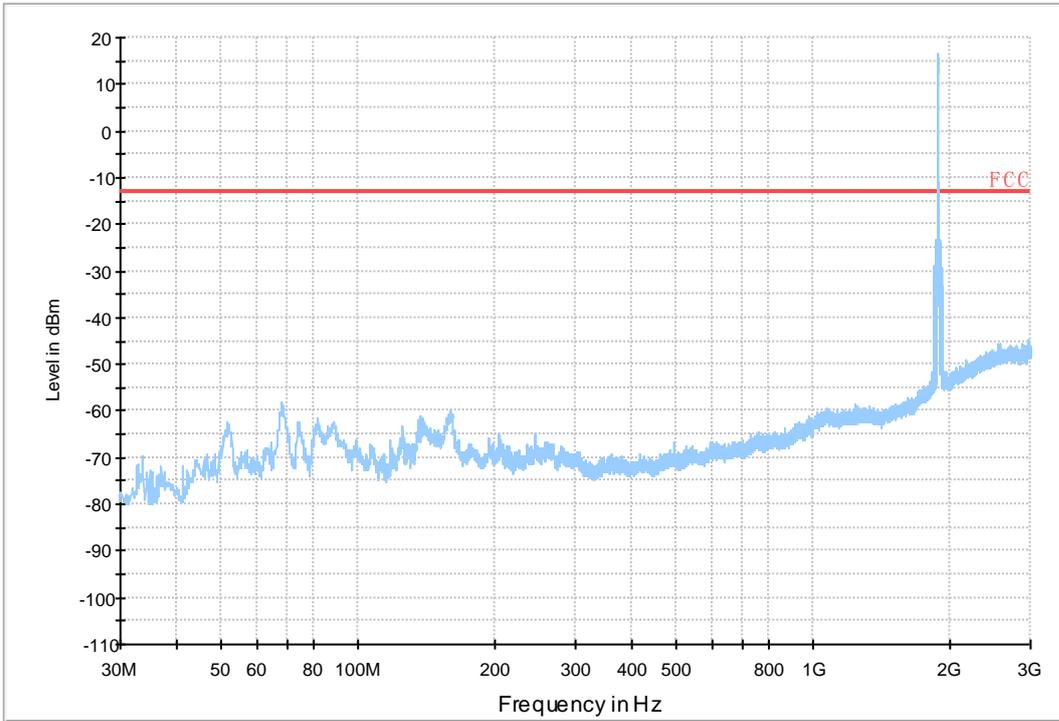


7.2.2 Test Band = WCDMA1900

7.2.2.1 Test Mode = UMTS/TM1

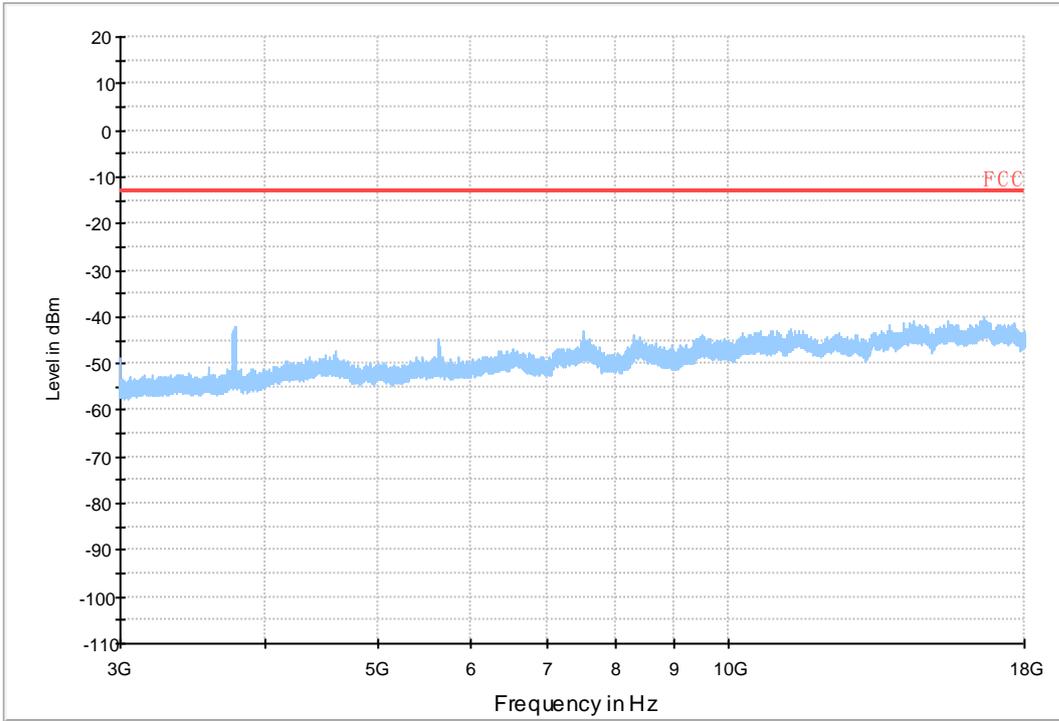
WCDMA1900_DCM-1

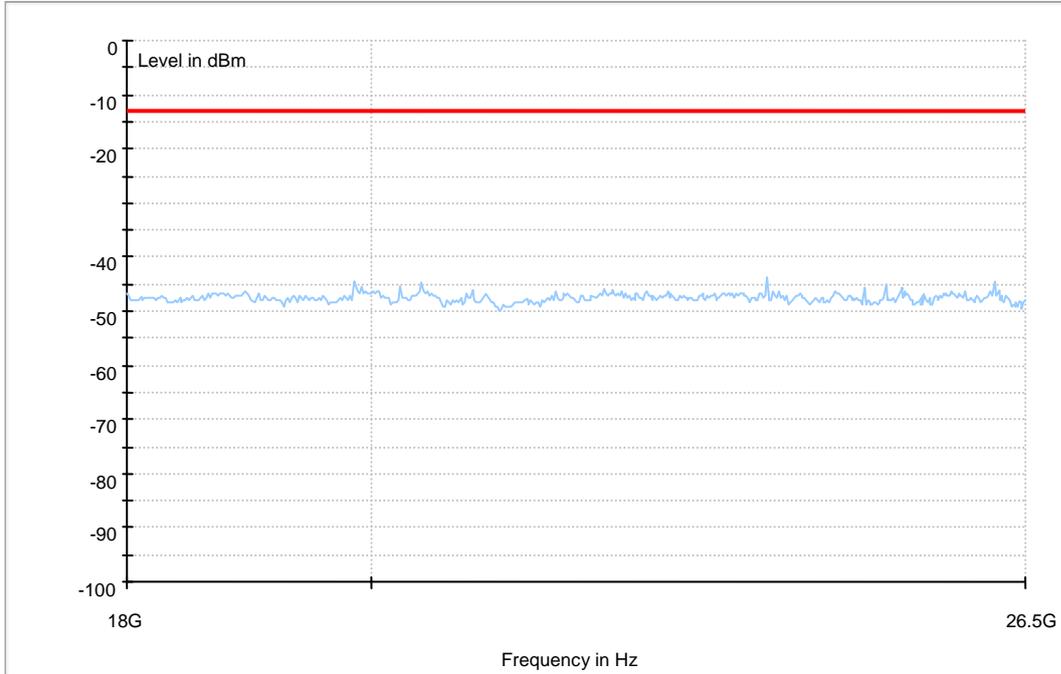
Copy of FCC PART24 WCDMA1900_L



WCDMA1900_DCM-2

Copy of FCC PART 24 WCDMA1900_H



WCDMA1900_DCM-3



8Appendix_H: Frequency Stability

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END