

Appendix A) RF Power Output

Test Band	Test Mode	Test Channel	Measured(dBm)	Limit (dBm)	Verdict
GSM850	GSM	LCH	32.71	38.5	PASS
		MCH	32.42	38.5	PASS
		HCH	33.09	38.5	PASS
	GPRS	LCH	32.58	38.5	PASS
		MCH	32.38	38.5	PASS
		HCH	33.07	38.5	PASS
Test Band	Test Mode	Test Channel	Measured(dBm)	Limit (dBm)	Verdict
GSM1900	GSM	LCH	27.18	33	PASS
		MCH	27.30	33	PASS
		HCH	27.04	33	PASS
	GPRS	LCH	27.09	33	PASS
		MCH	27.25	33	PASS
		HCH	26.89	33	PASS

Appendix A) Peak-to-Average Ratio

Test Band	Test Mode	Test Channel	Measured (dB)	Limit (dB)	Verdict
GSM850	GSM	LCH	0.64	13	PASS
		MCH	0.68	13	PASS
		HCH	0.59	13	PASS
	GPRS	LCH	0.54	13	PASS
		MCH	0.48	13	PASS
		HCH	0.56	13	PASS
Test Band	Test Mode	Test Channel	Measured (dB)	Limit (dB)	Verdict
GSM1900	GSM	LCH	1.54	13	PASS
		MCH	1.49	13	PASS
		HCH	1.52	13	PASS
	GPRS	LCH	1.48	13	PASS
		MCH	1.42	13	PASS
		HCH	1.46	13	PASS

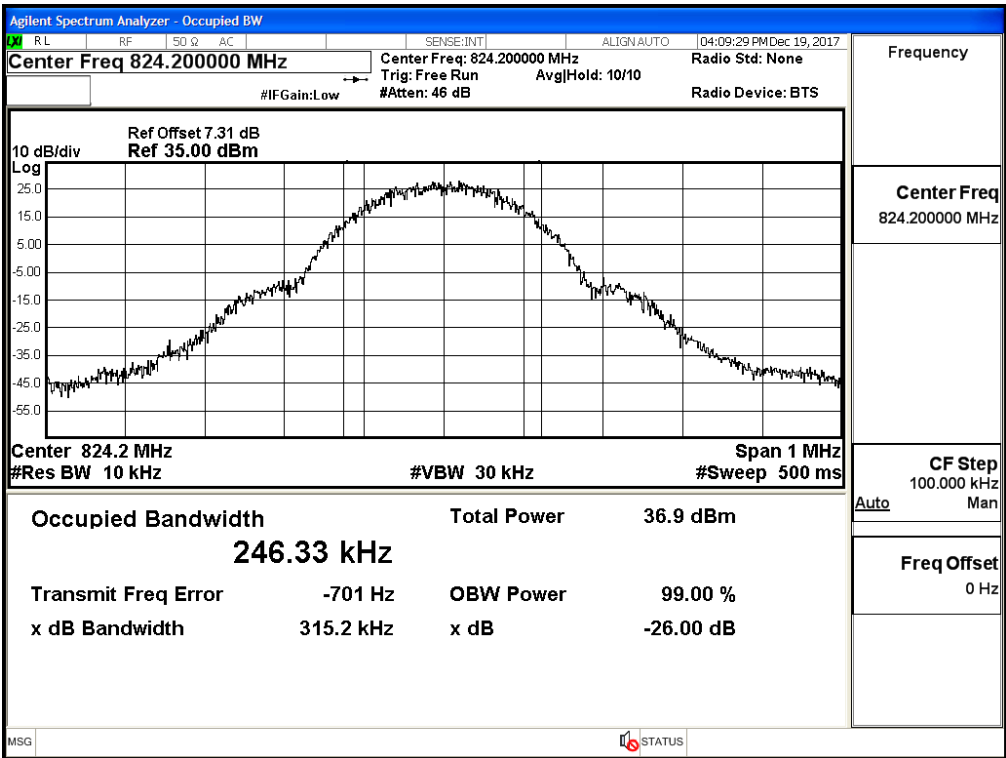
Appendix A) BandWidth

Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM850	GSM	LCH	246.3	315	PASS
		MCH	245.4	317	PASS
		HCH	247.5	309	PASS
	GPRS	LCH	245.4	312	PASS
		MCH	246.7	316	PASS
		HCH	242.9	311	PASS

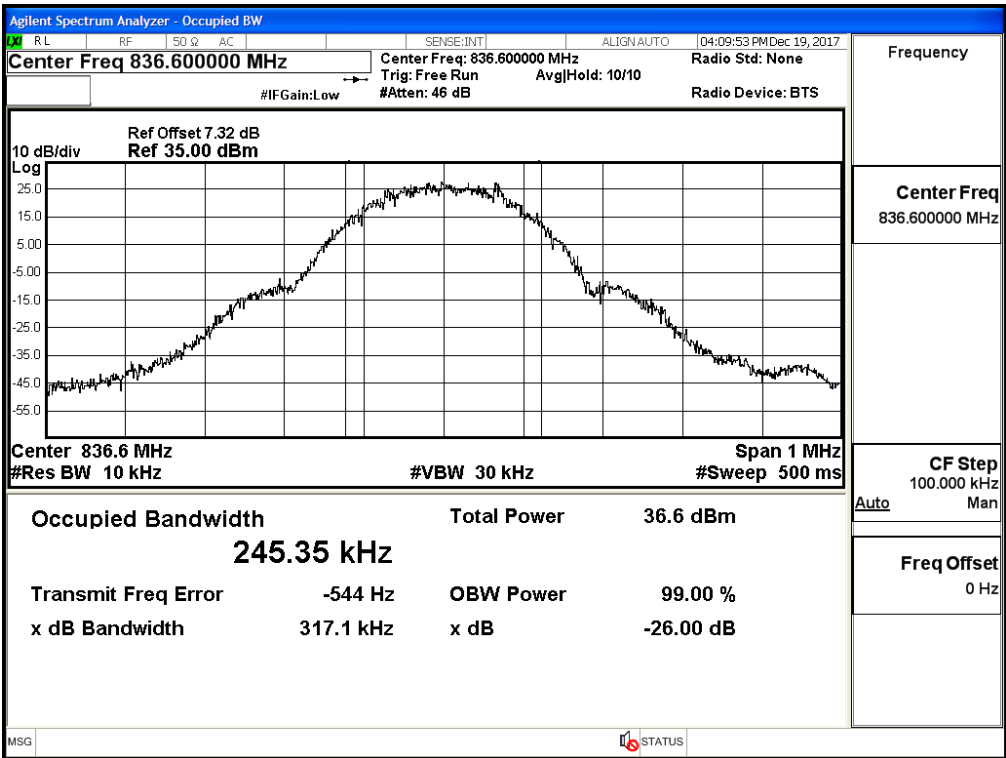
Test Band	Test Mode	Test Channel	Occupied Bandwidth (KHZ)	Emission Bandwidth (KHZ)	Verdict
GSM1900	GSM	LCH	245.0	312	PASS
		MCH	246.0	316	PASS
		HCH	247.6	318	PASS
	GPRS	LCH	244.6	317	PASS
		MCH	246.0	312	PASS
		HCH	245.0	316	PASS

For GSM/Test Band=GSM850/Test Mode=GSM

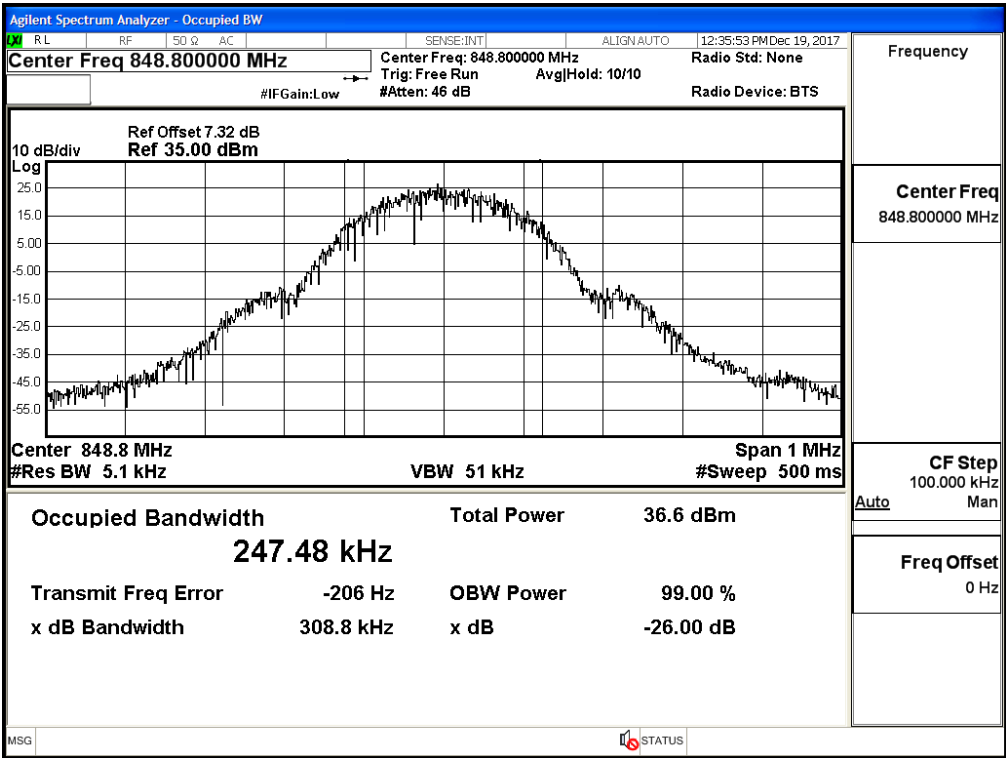
Test Channel=LCH



Test Channel=MCH

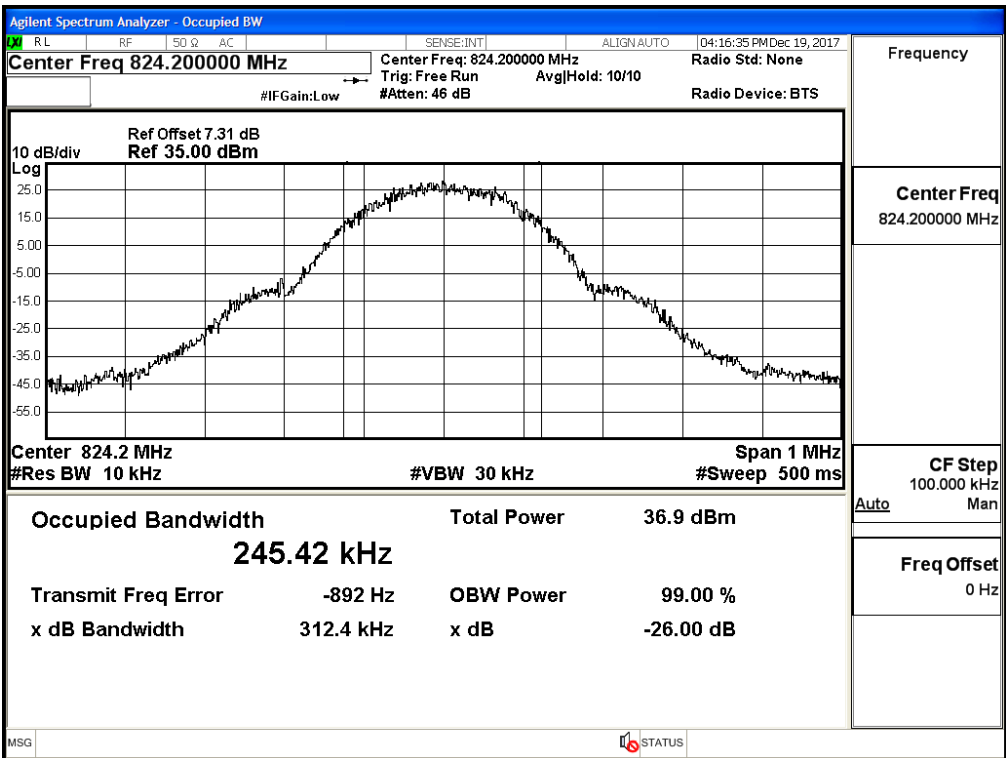


Test Channel=HCH

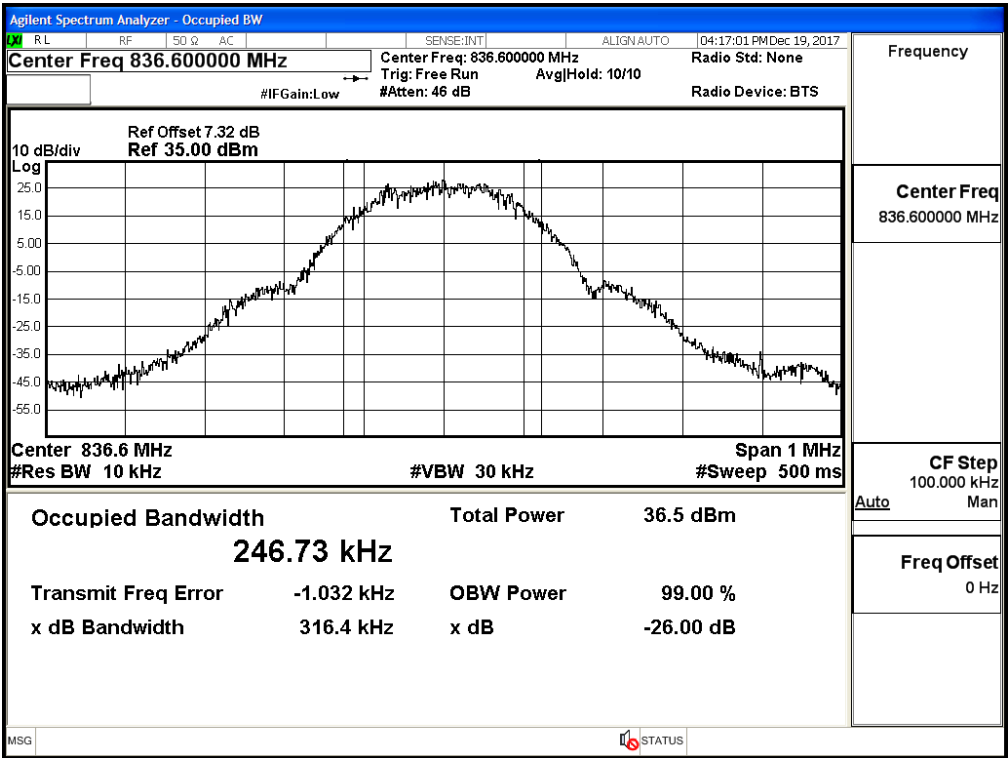


Test Mode=GPRS

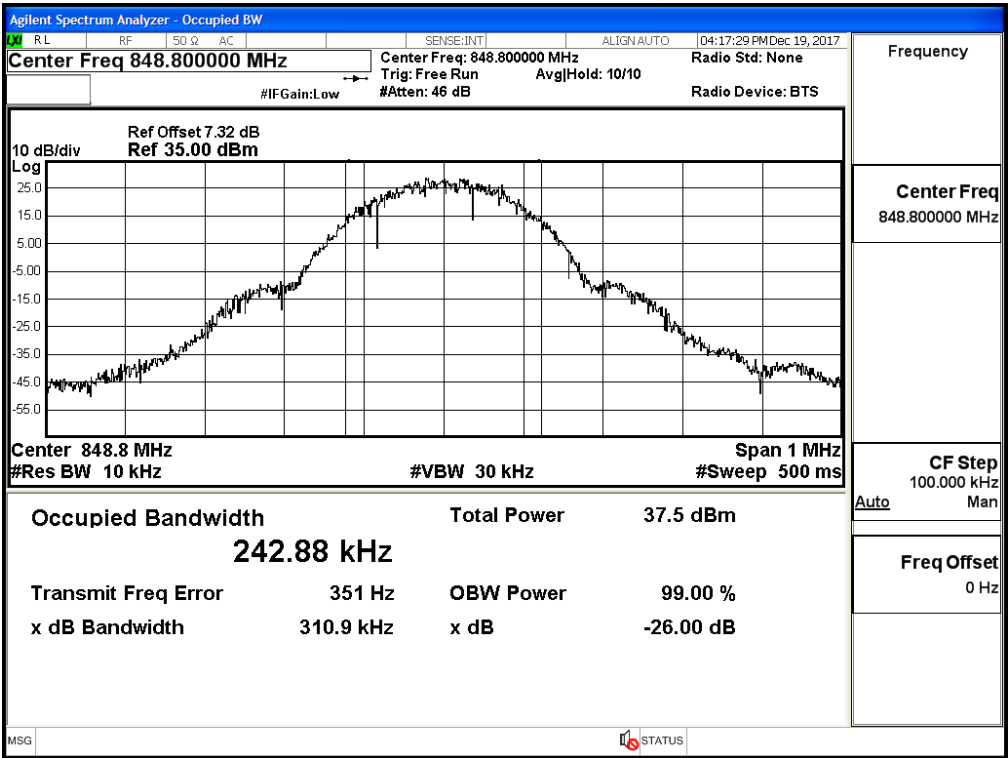
Test Channel=LCH



Test Channel=MCH

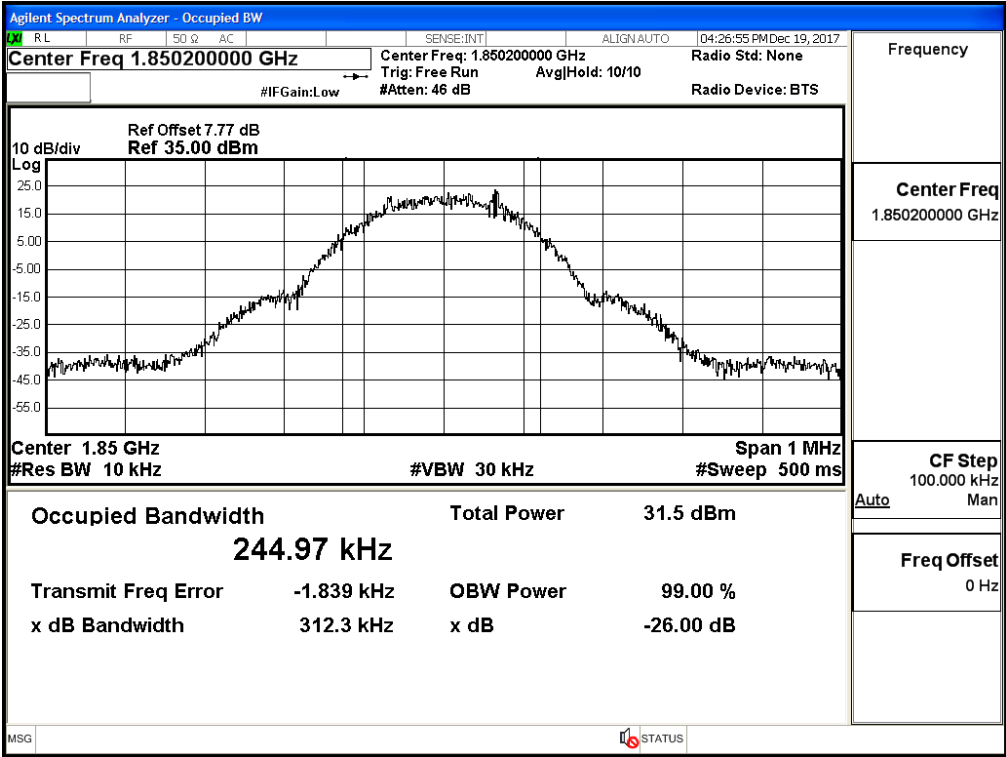


Test Channel=HCH

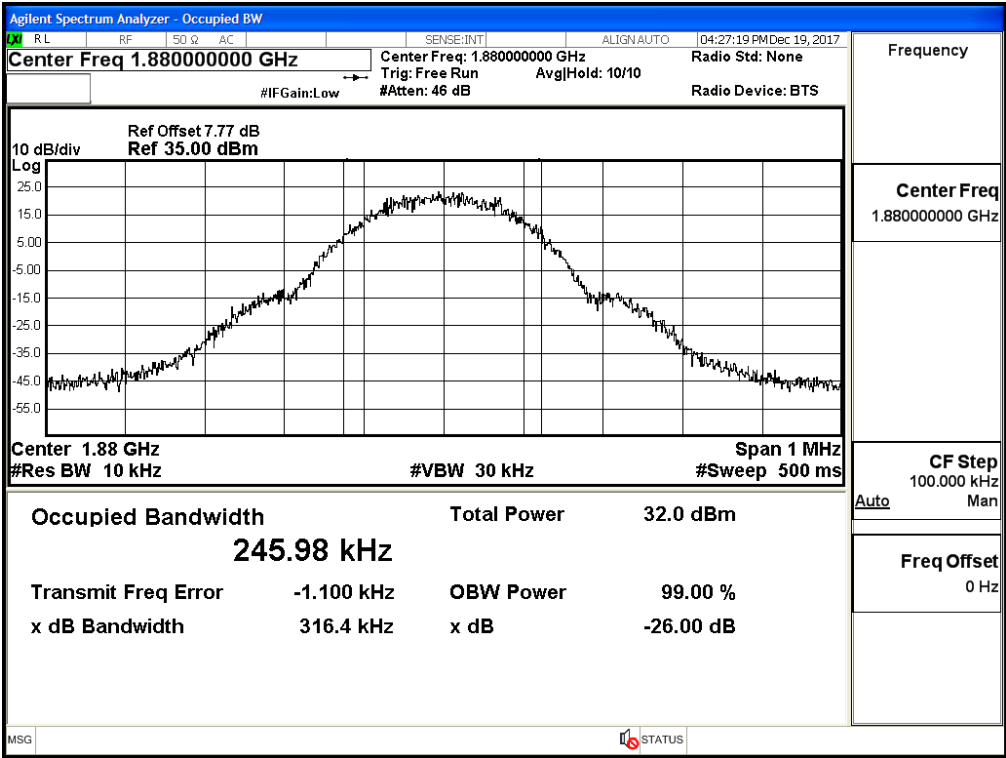


Test Band=GSM1900/Test Mode=GSM

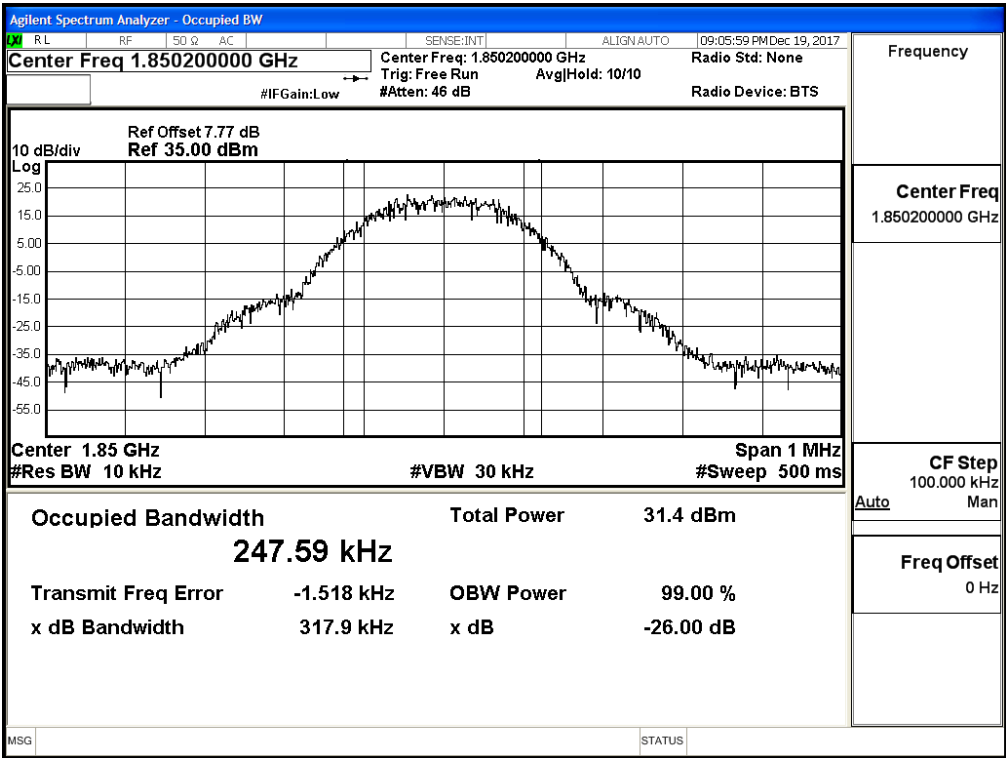
Test Channel=LCH



Test Channel=MCH

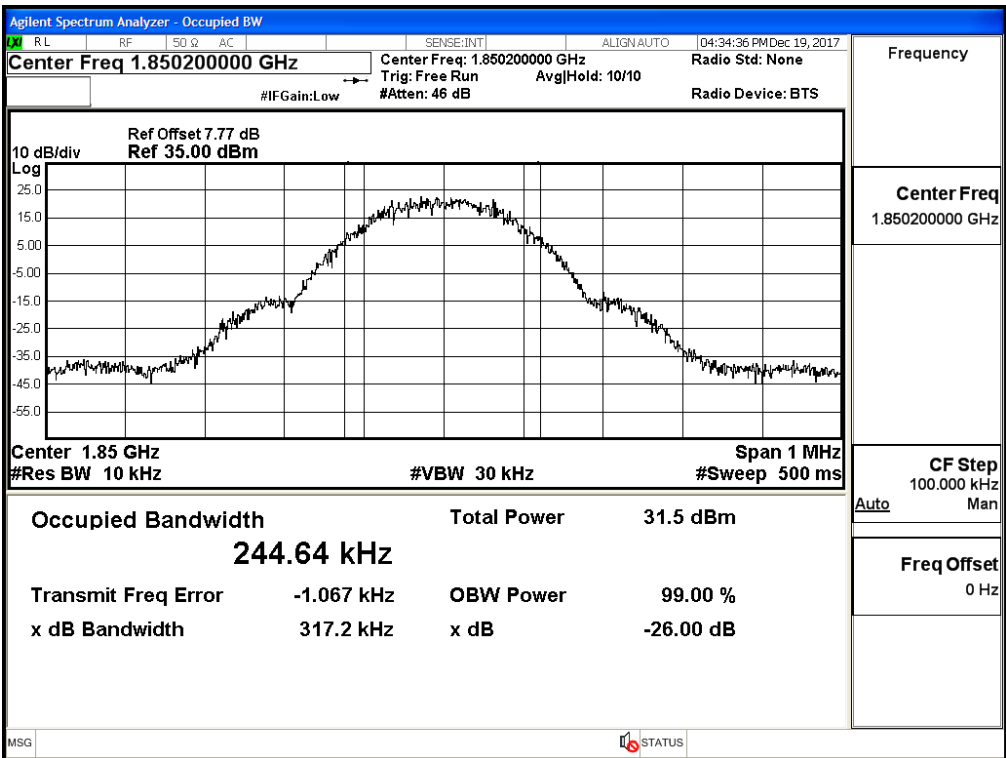


Test Channel=HCH

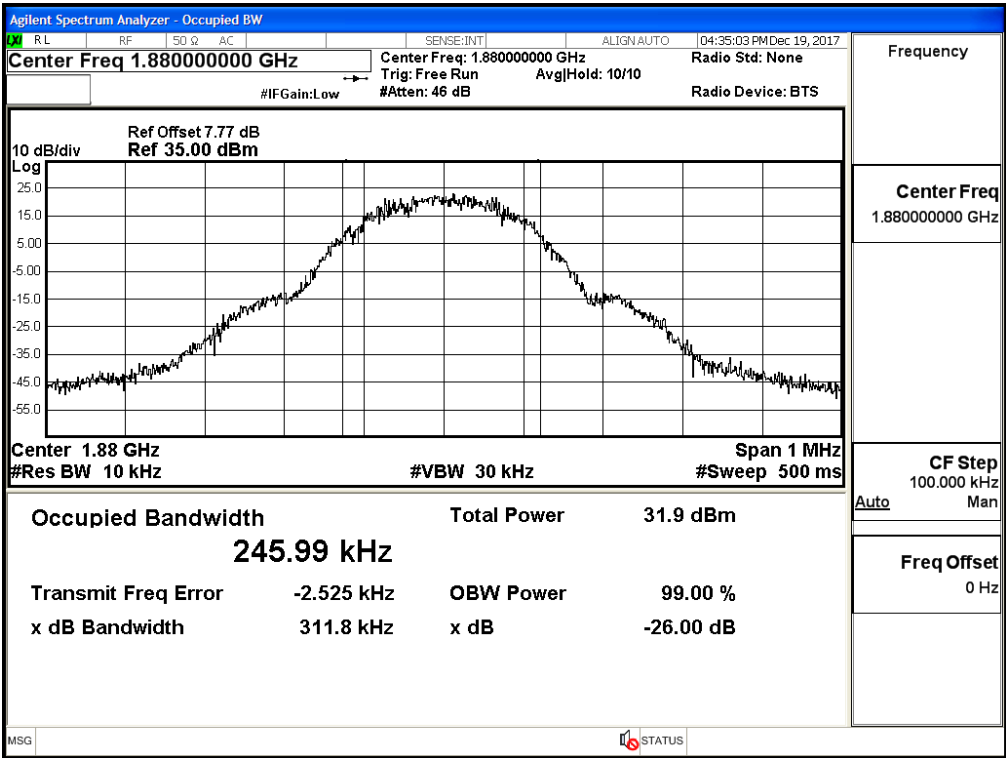


Test Mode=GPRS

Test Channel=LCH



Test Channel=MCH



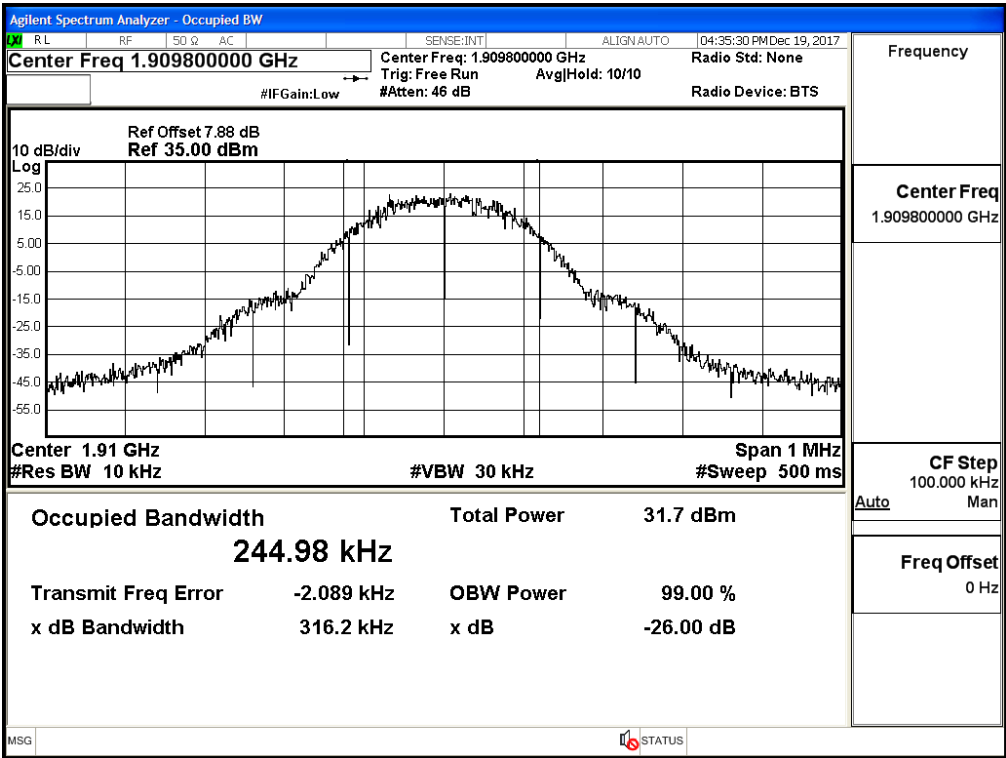
Frequency

Center Freq
1.880000000 GHz

CF Step
100.000 kHz
Auto
Man

Freq Offset
0 Hz

Test Channel=HCH



Frequency

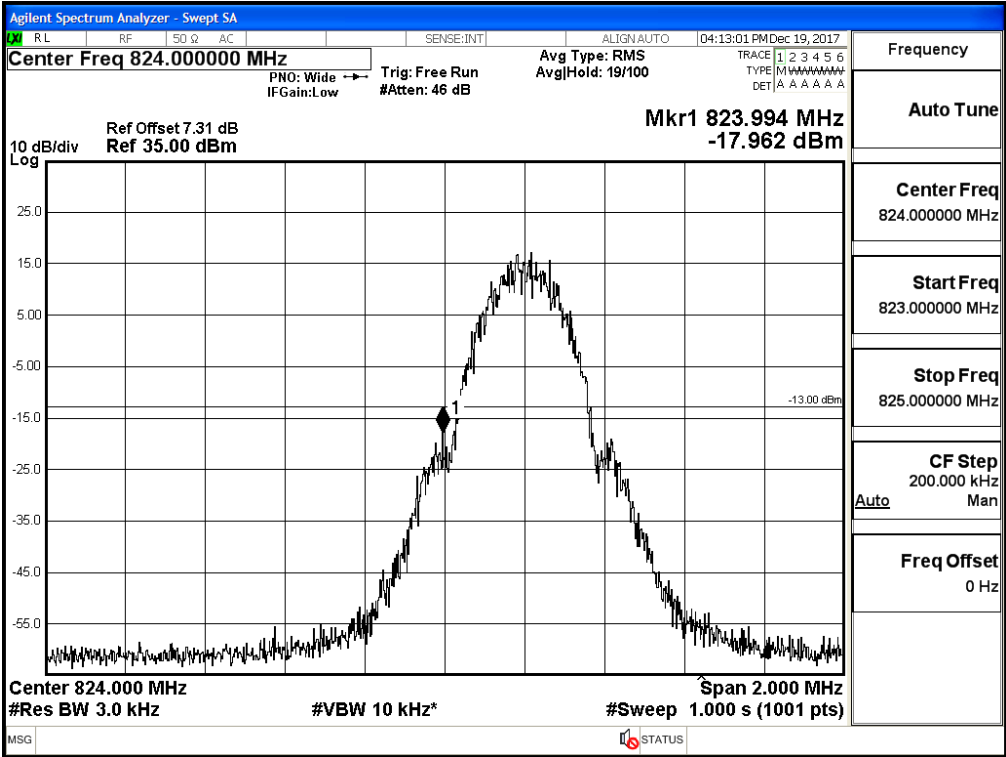
Center Freq
1.909800000 GHz

CF Step
100.000 kHz
Auto
Man

Freq Offset
0 Hz

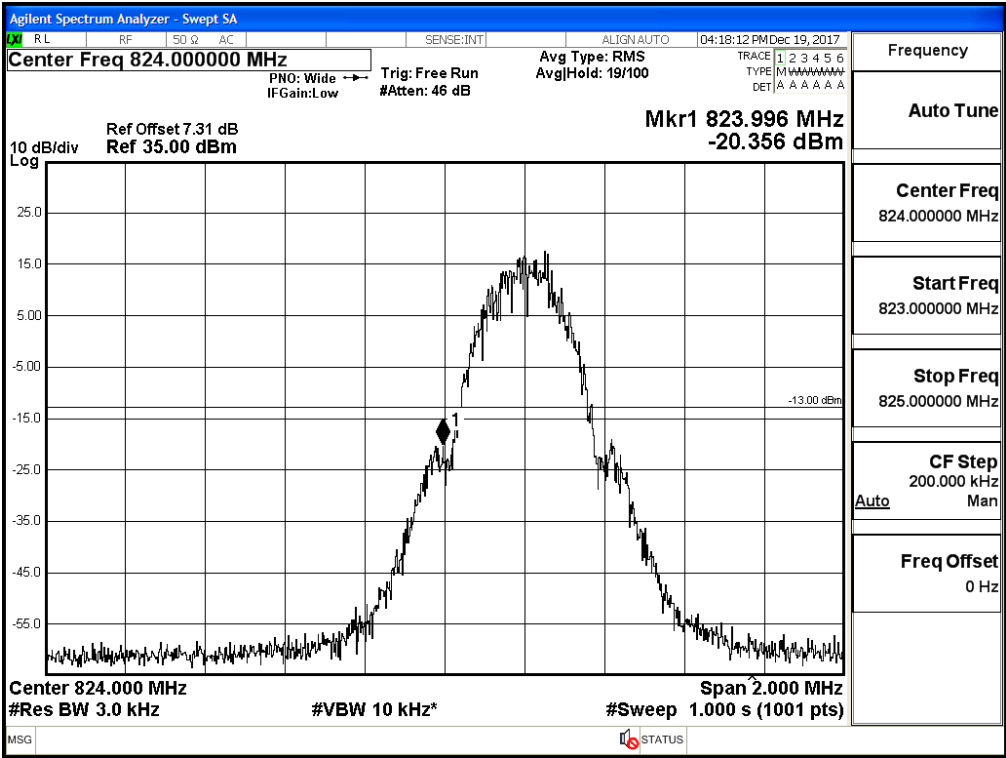
Appendix A)Band Edges Compliance

For GSM/Test Band=GSM850/Test Mode=GSM
Test Channel=LCH

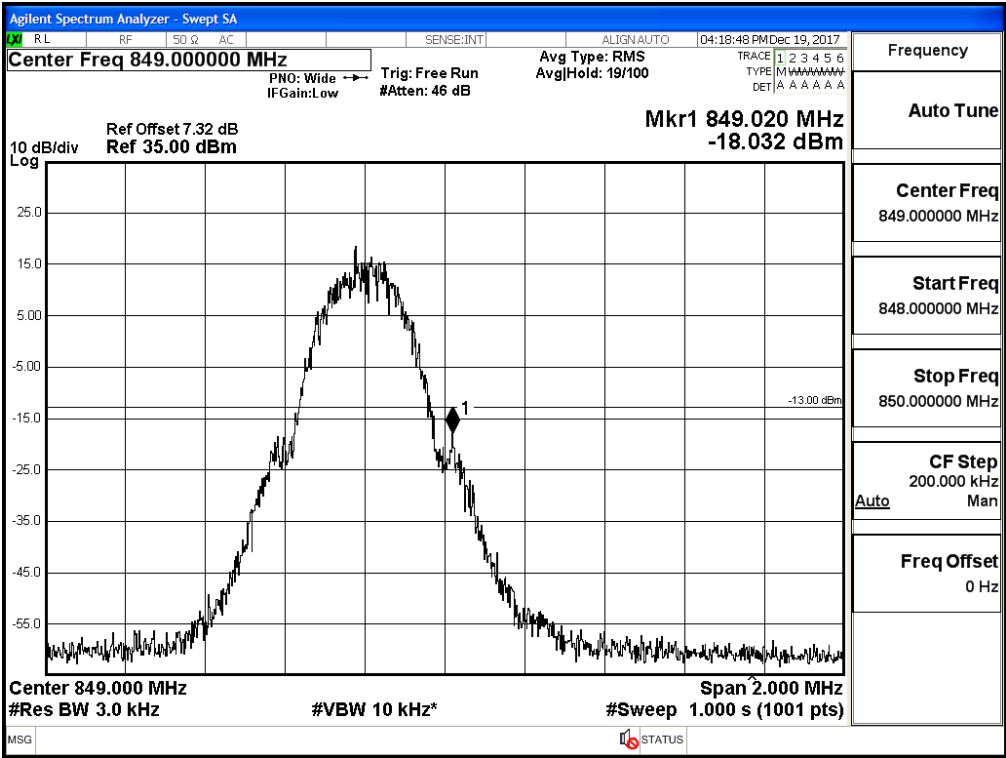


Test Mode=GPRS

Test Channel=LCH

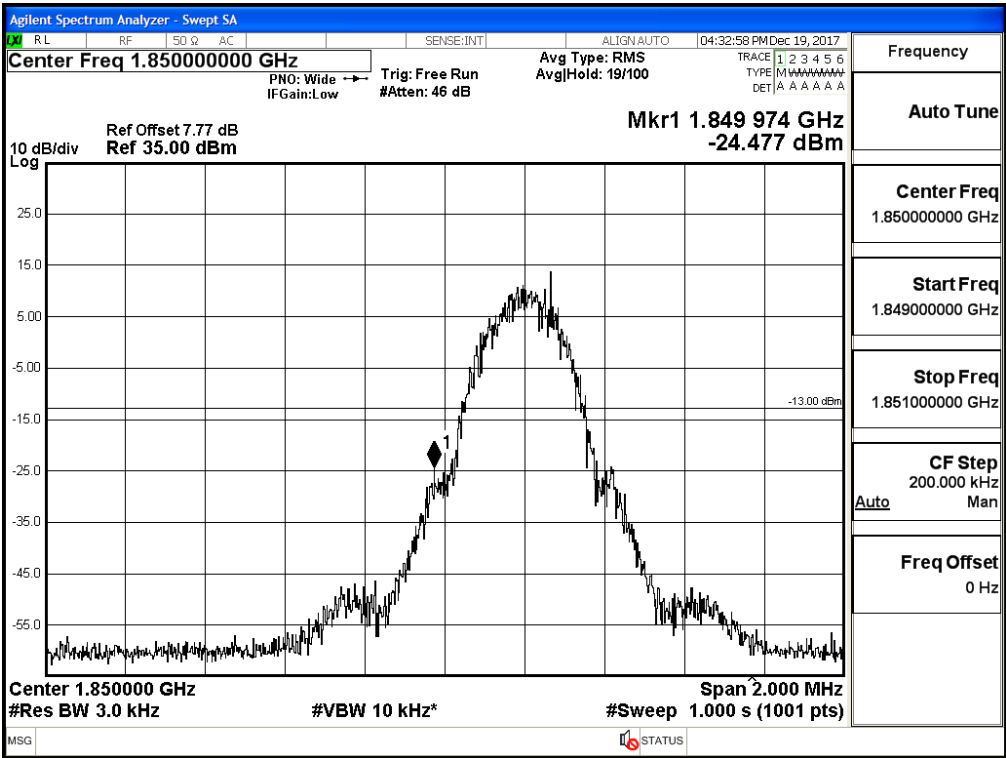


Test Channel=HCH

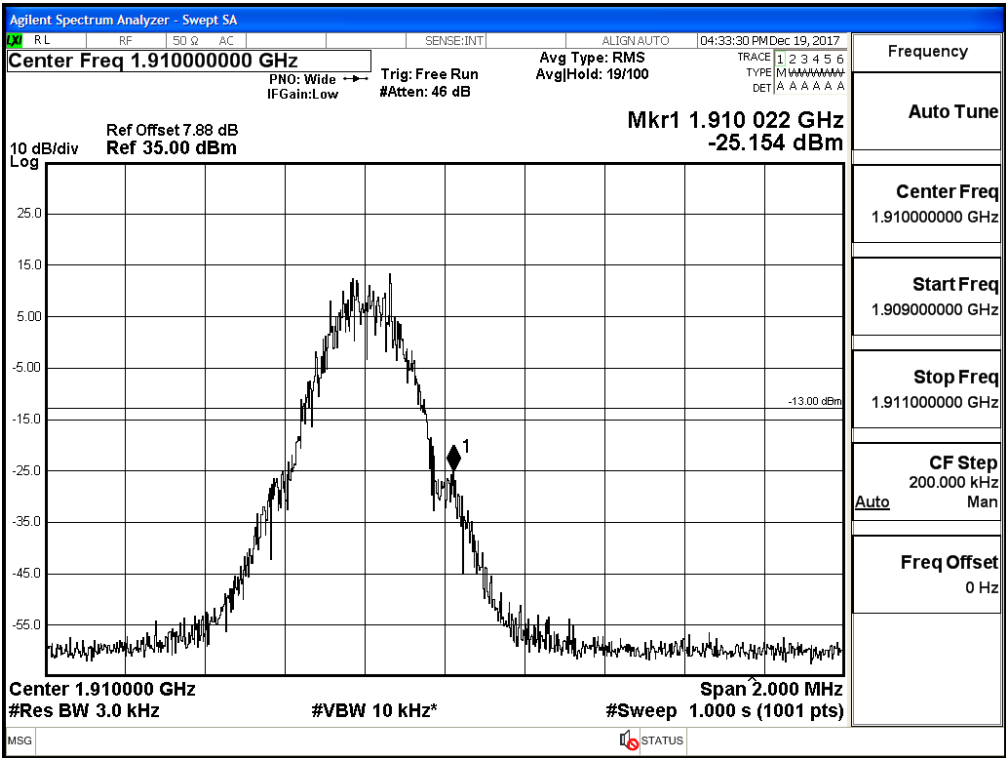


Test Band=GSM1900/Test Mode=GSM

Test Channel=LCH

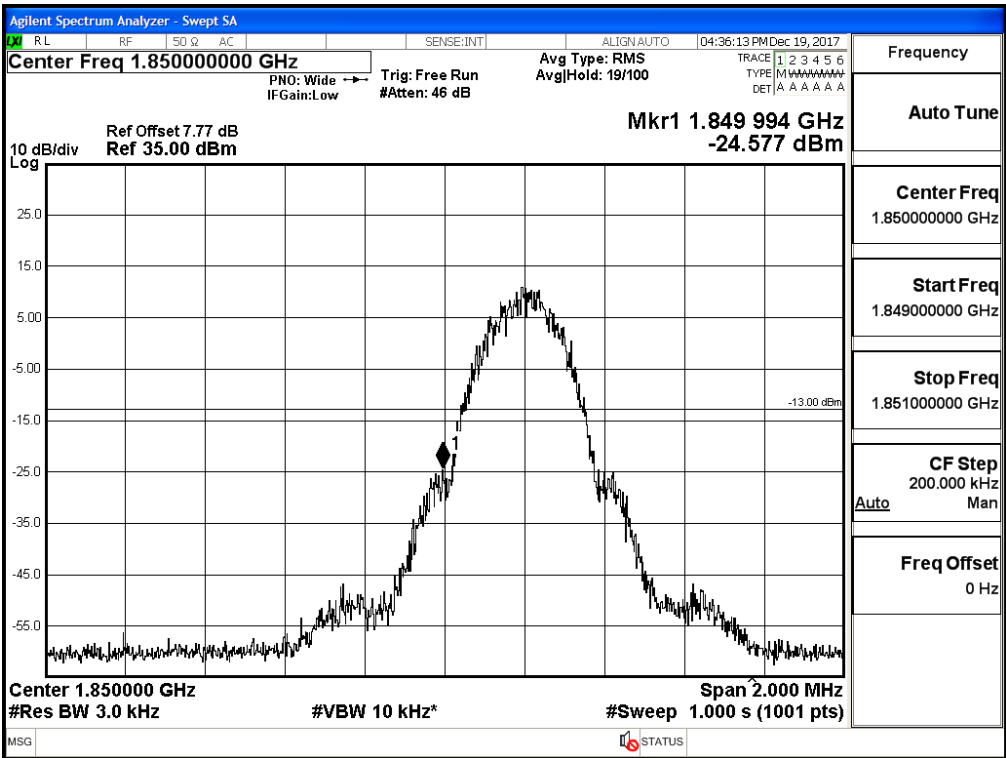


Test Channel=HCH

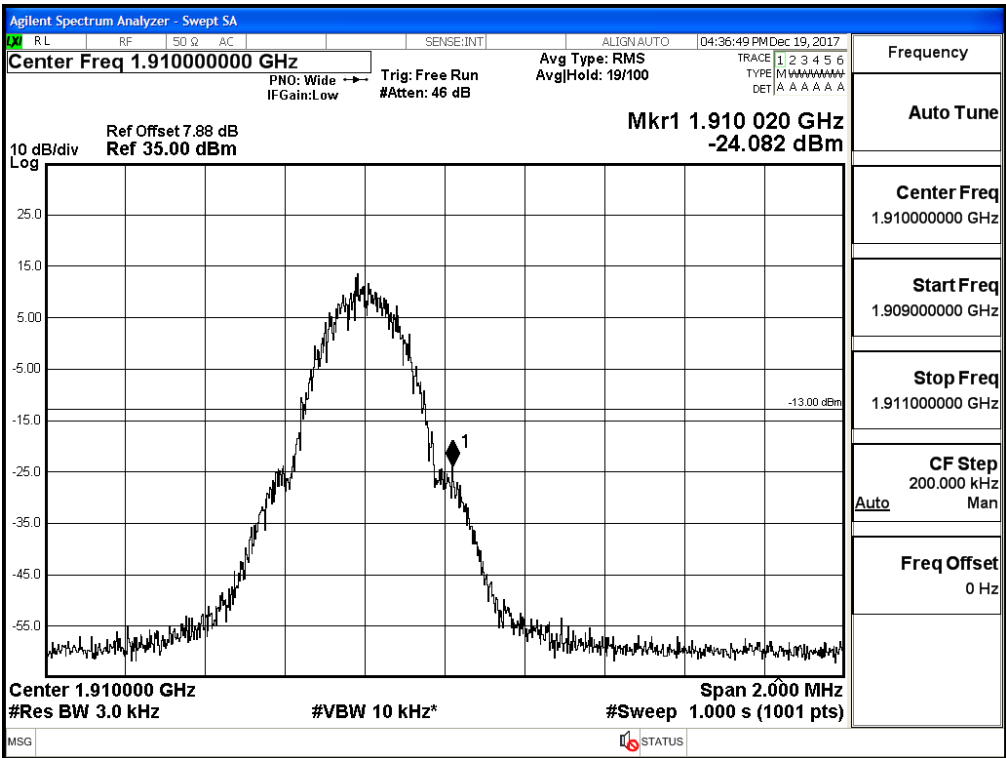


Test Mode=GPRS

Test Channel=LCH

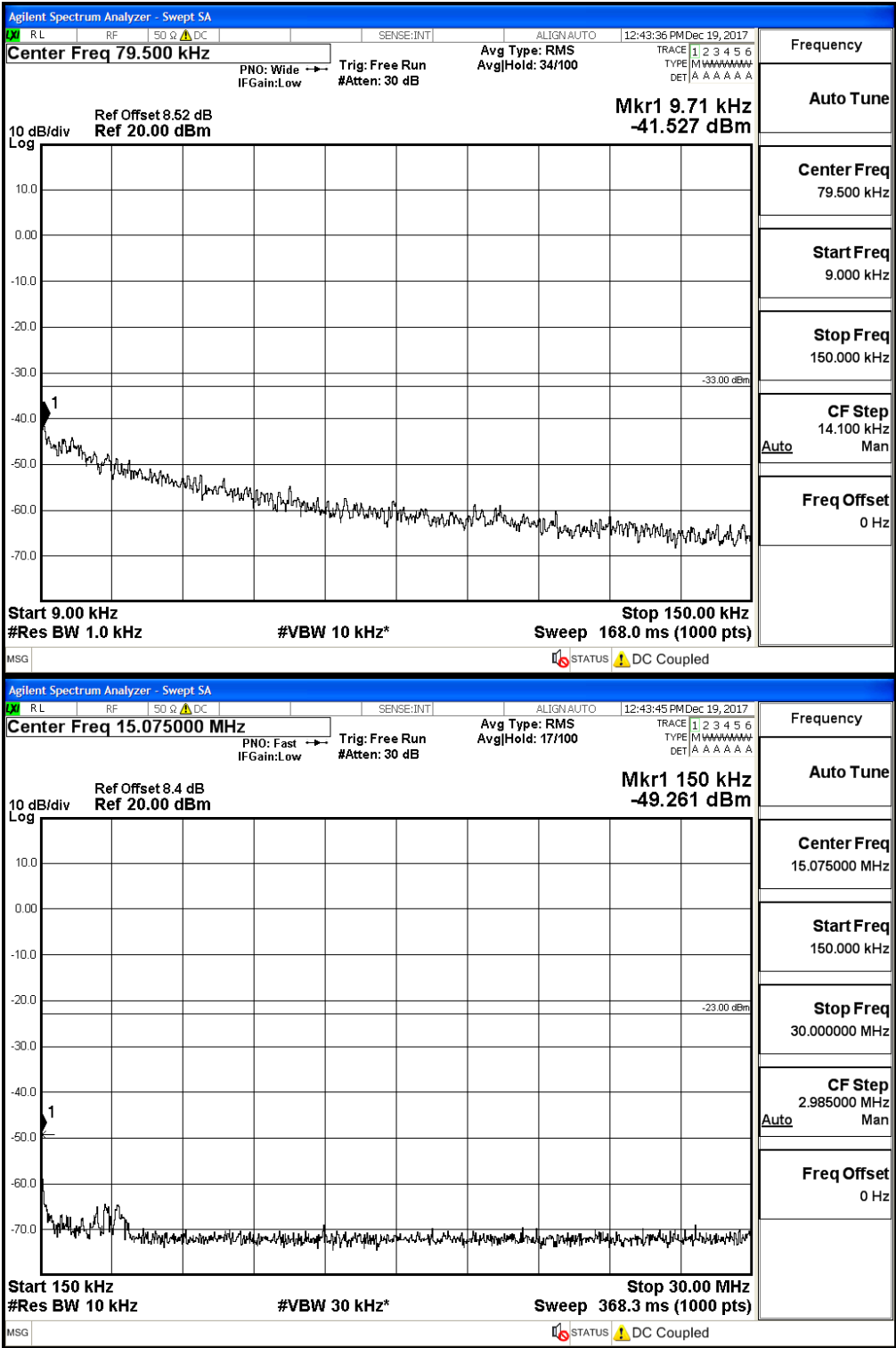


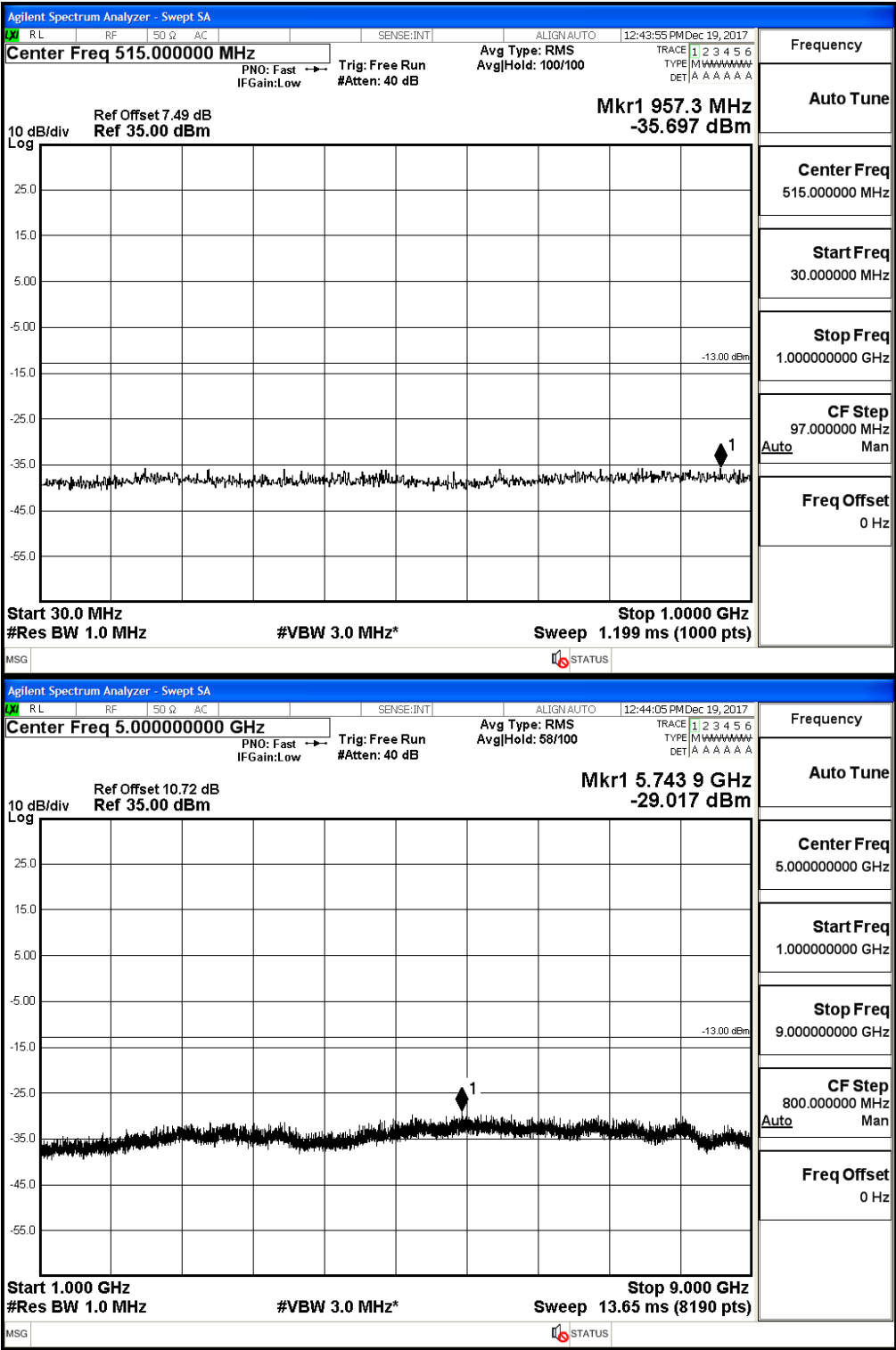
Test Channel=HCH



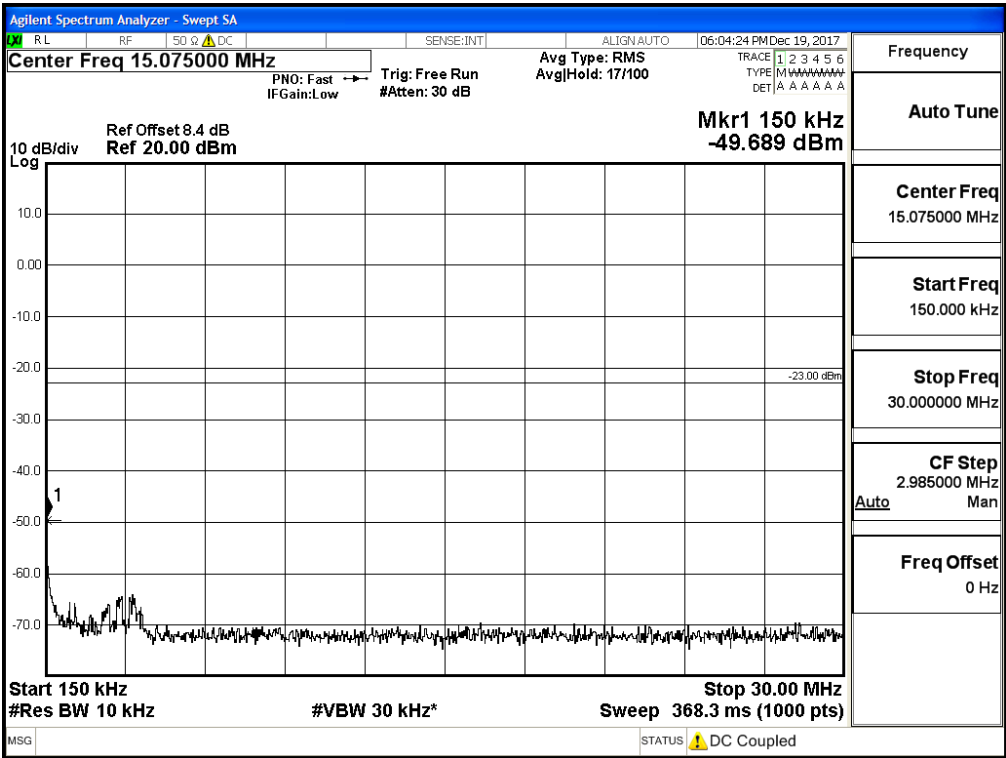
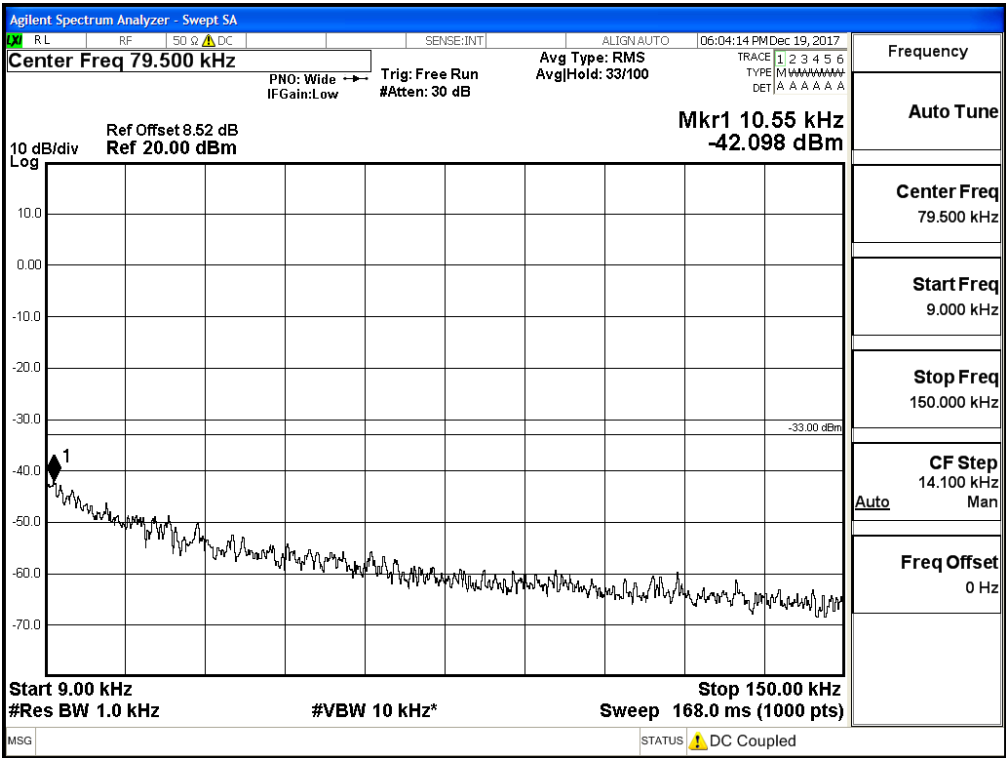
Appendix A)Spurious Emission at Antenna Terminal

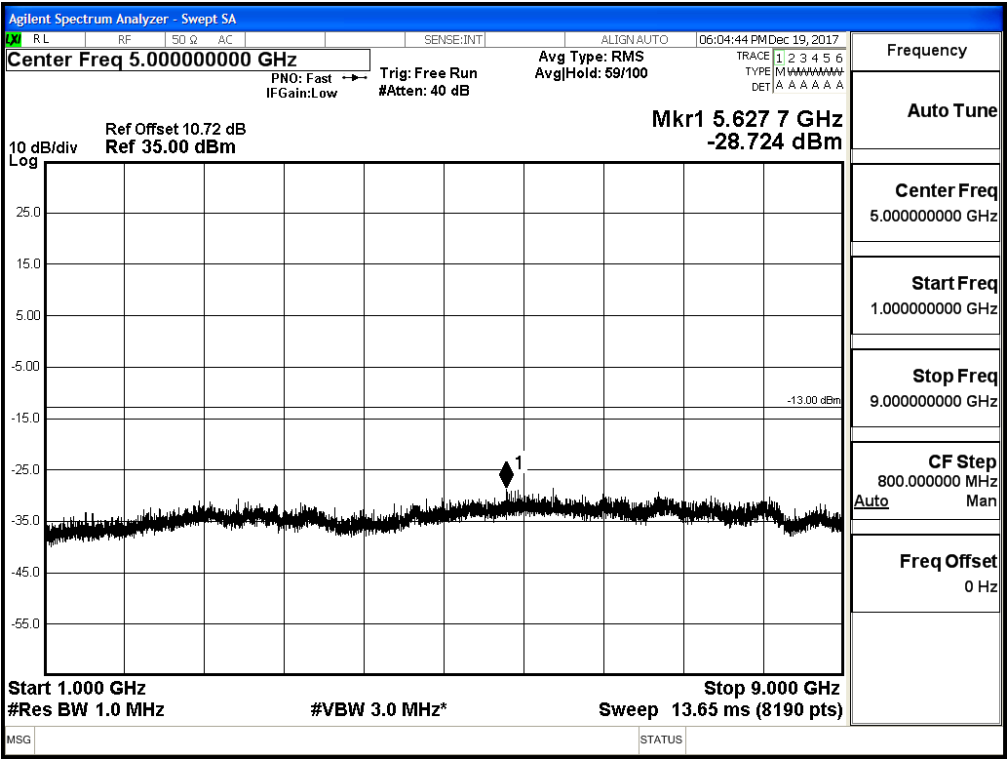
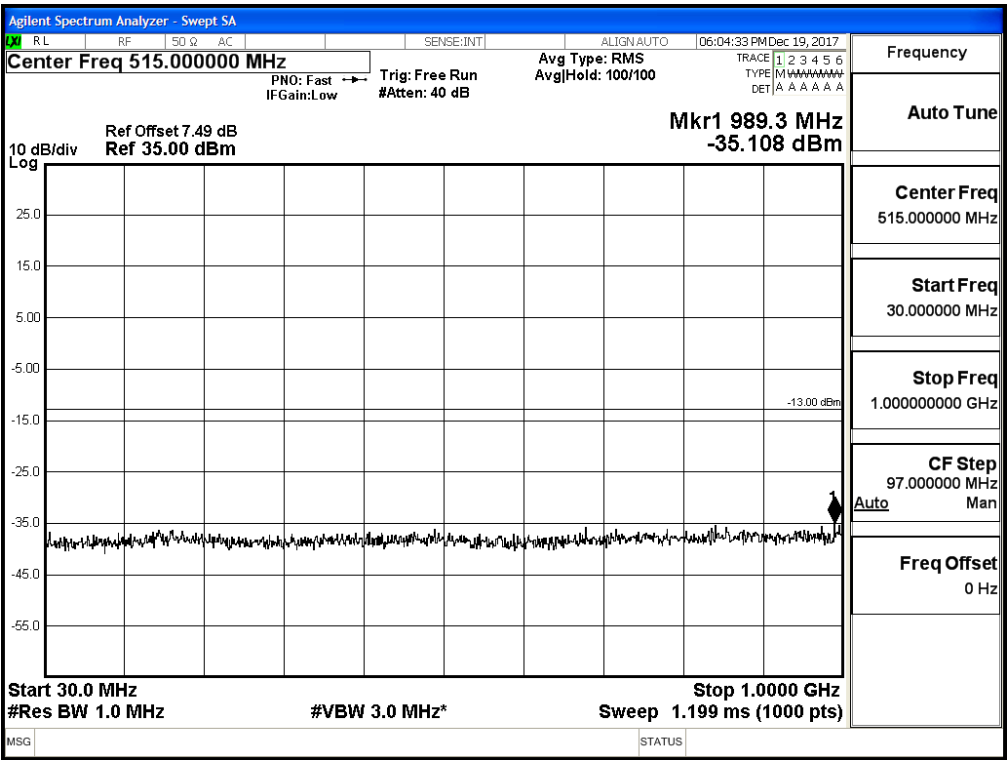
For GSM/Test Band=GSM850/Test Mode=GSM
Test Channel=LCH



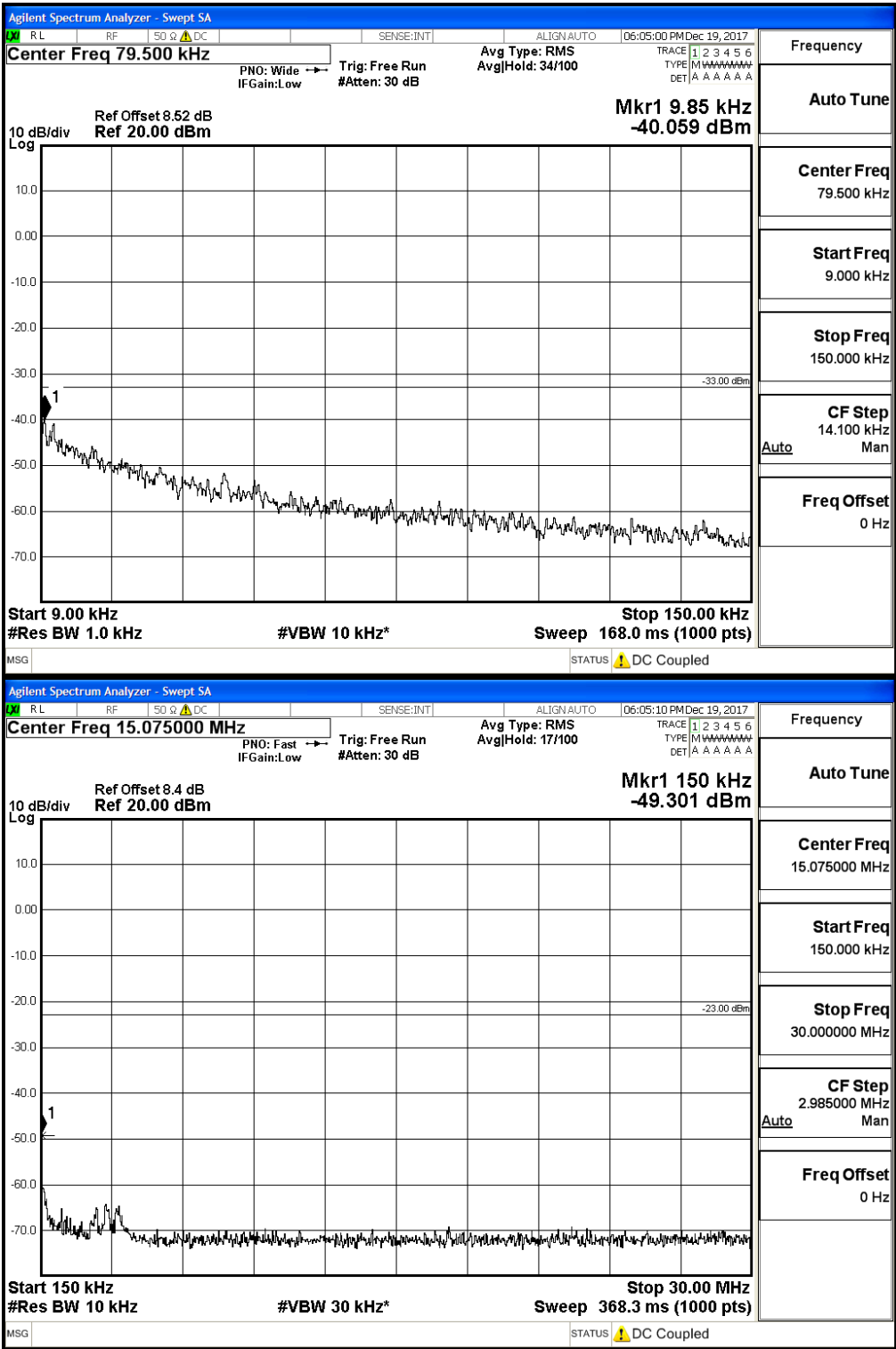


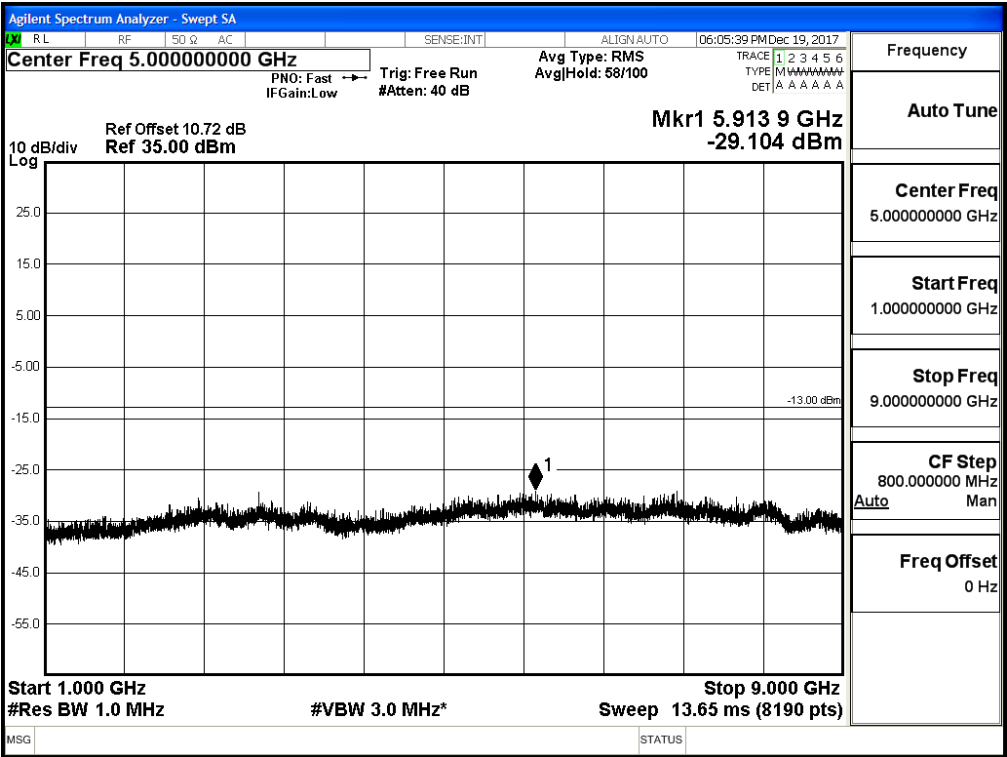
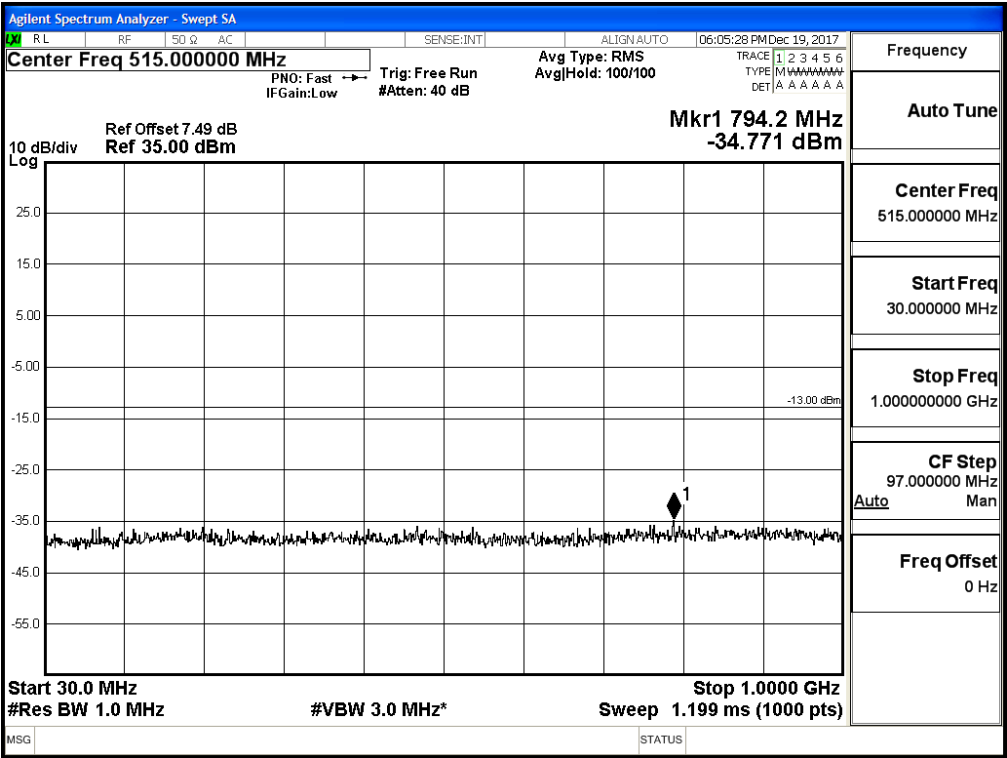
Test Channel=MCH





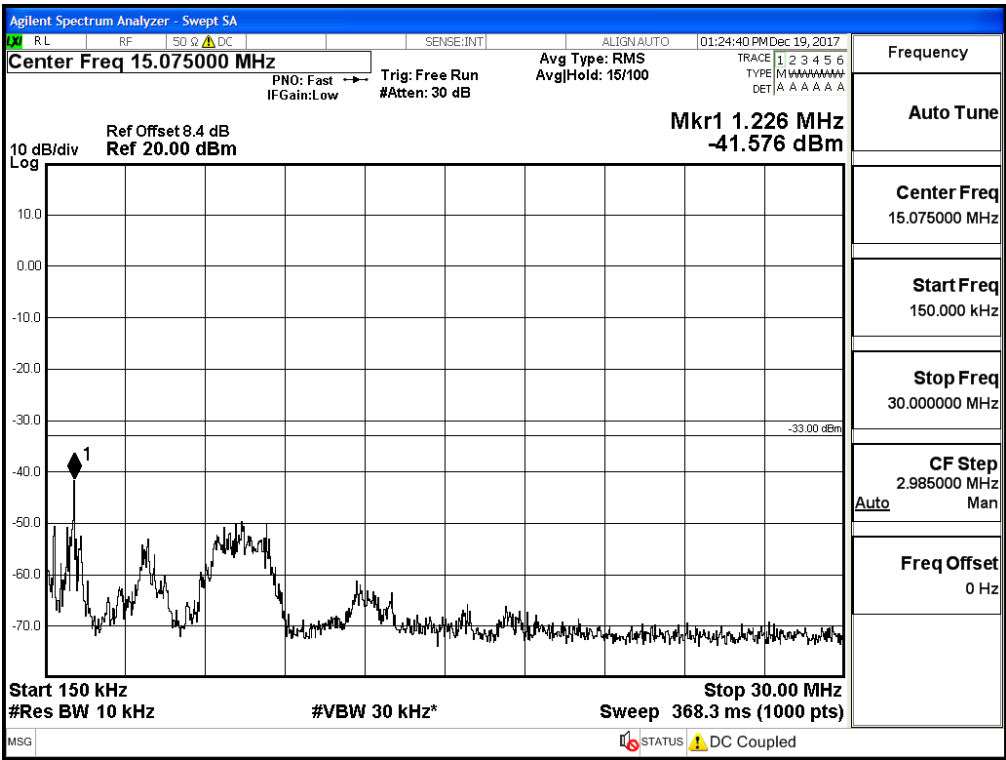
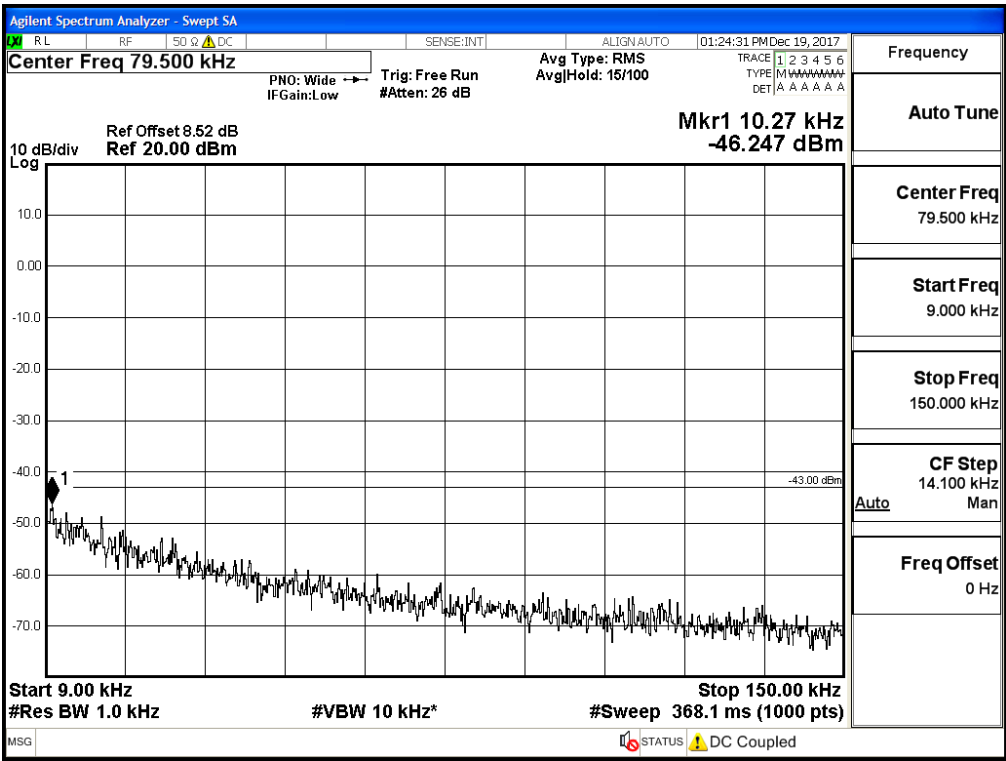
Test Channel=HCH

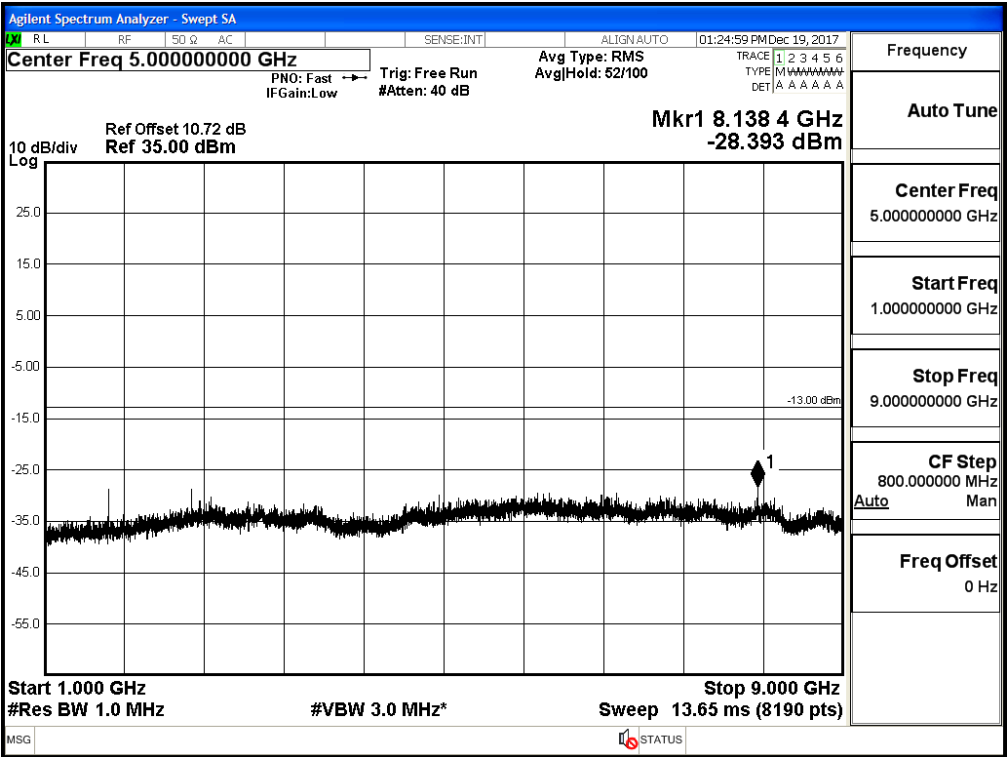
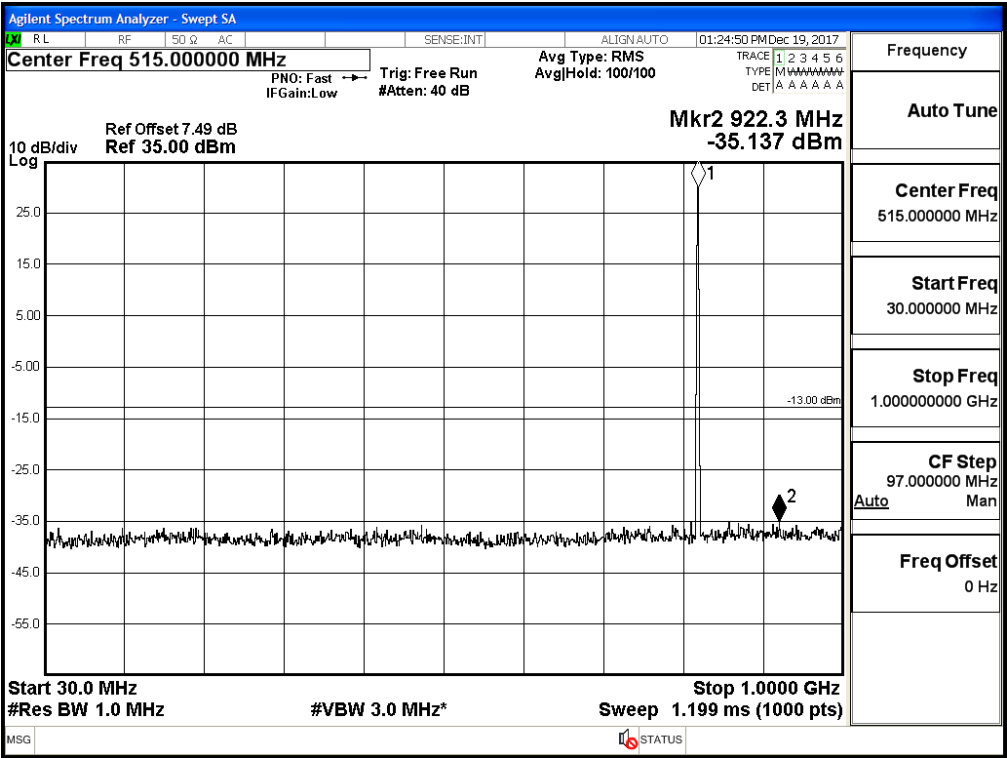




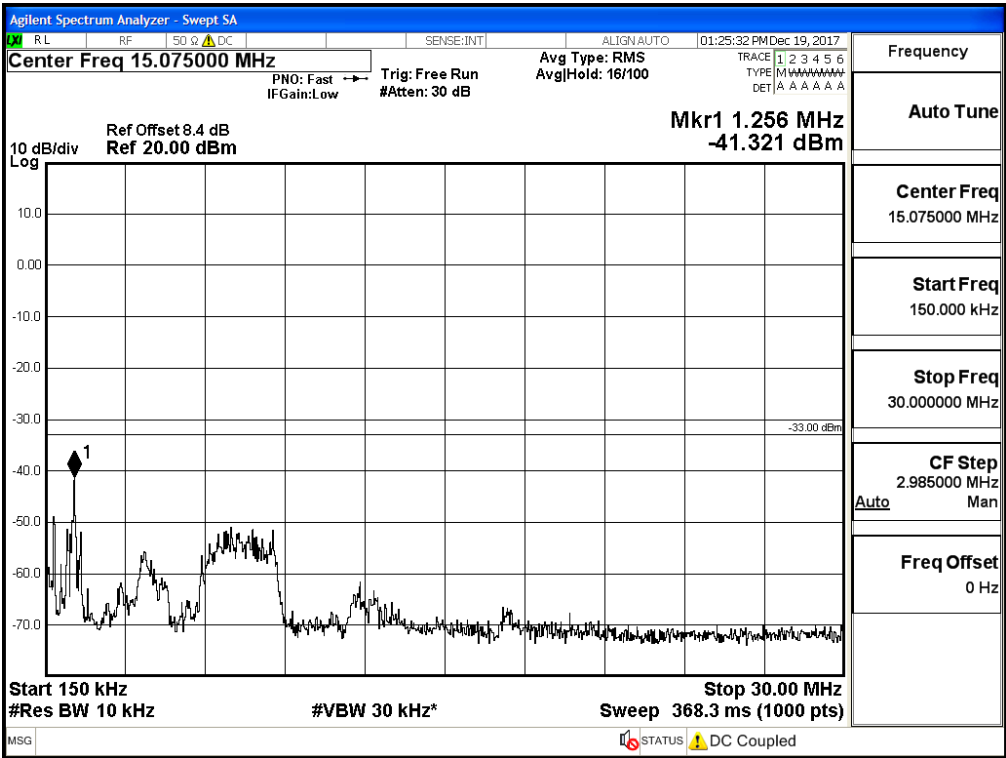
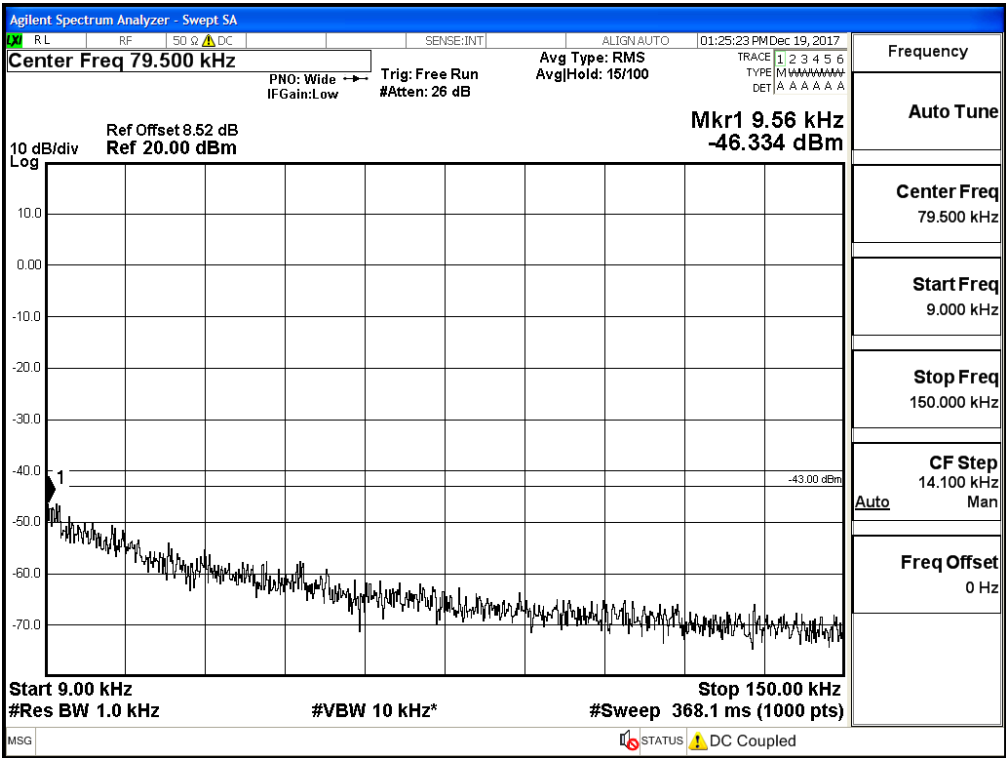
Test Mode=GPRS

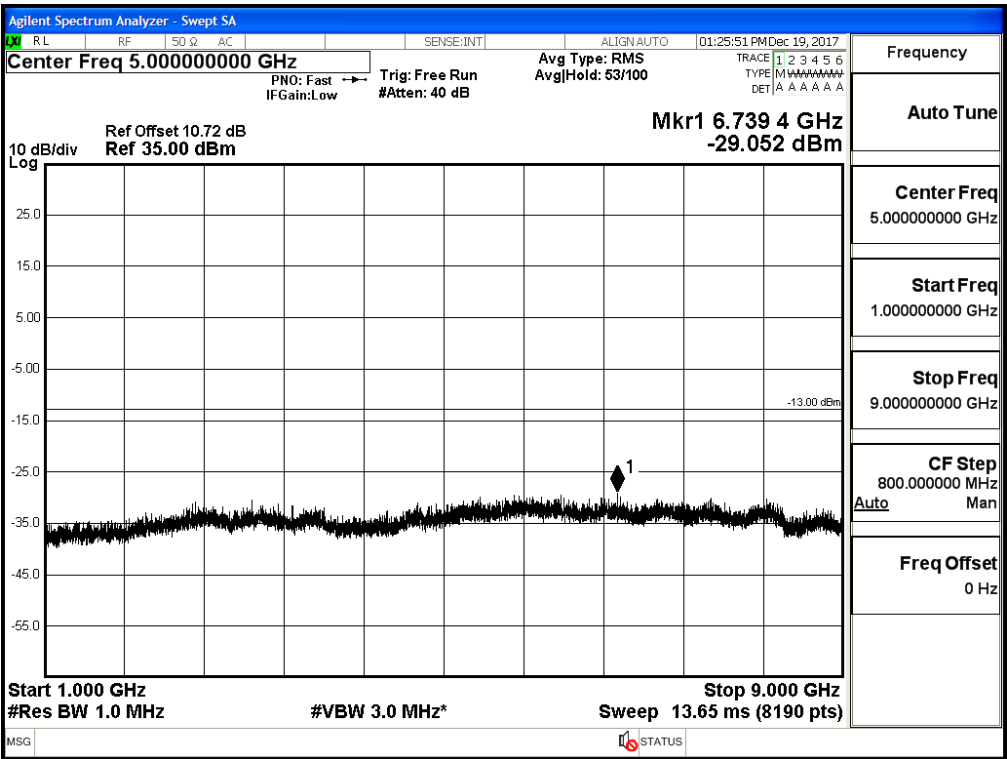
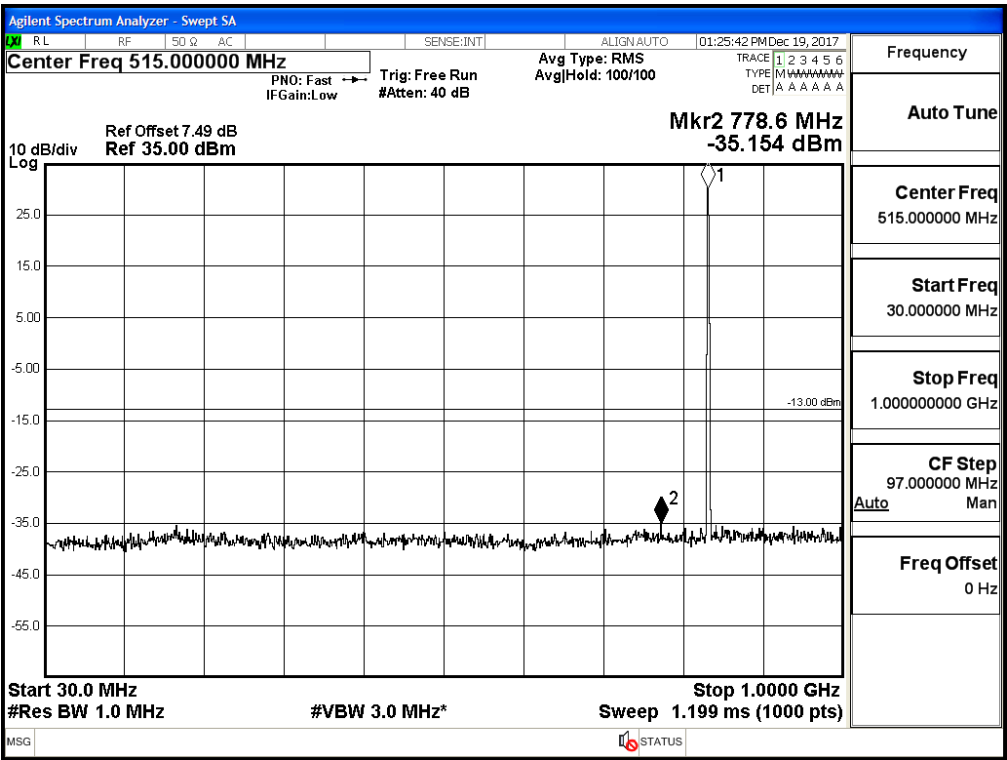
Test Channel=LCH



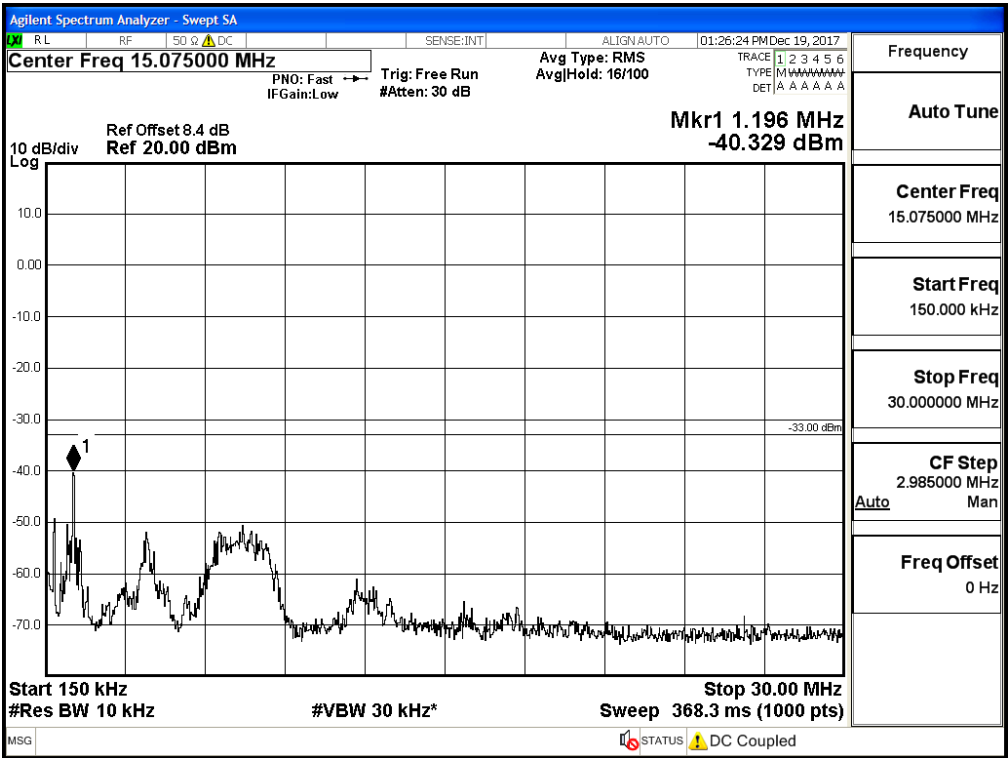
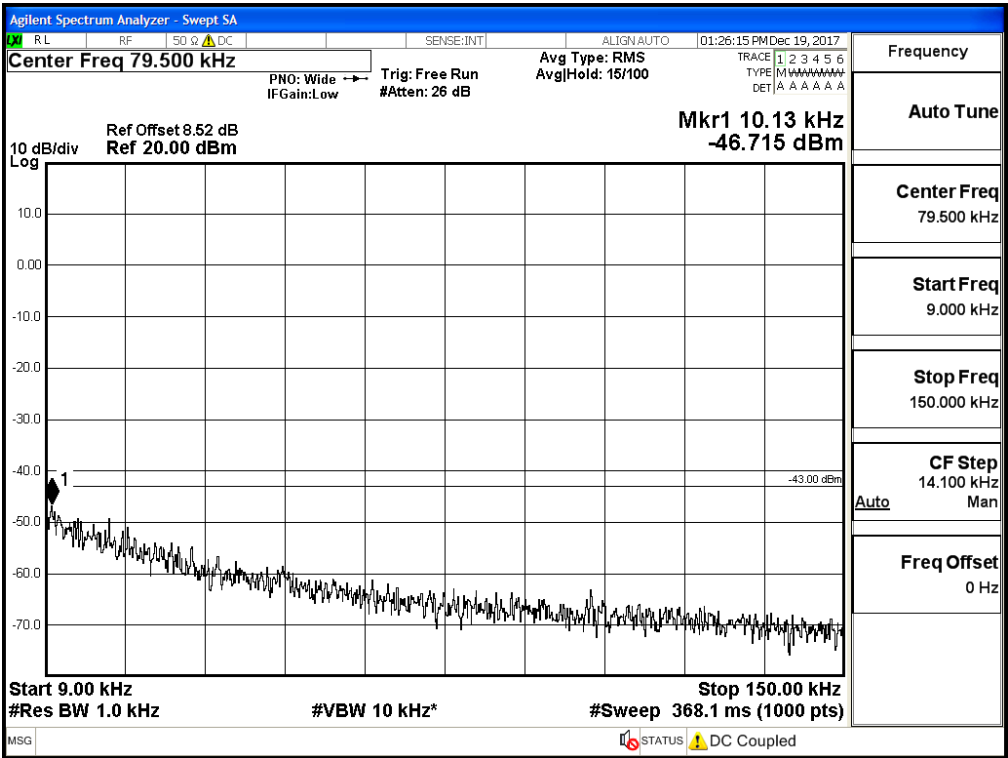


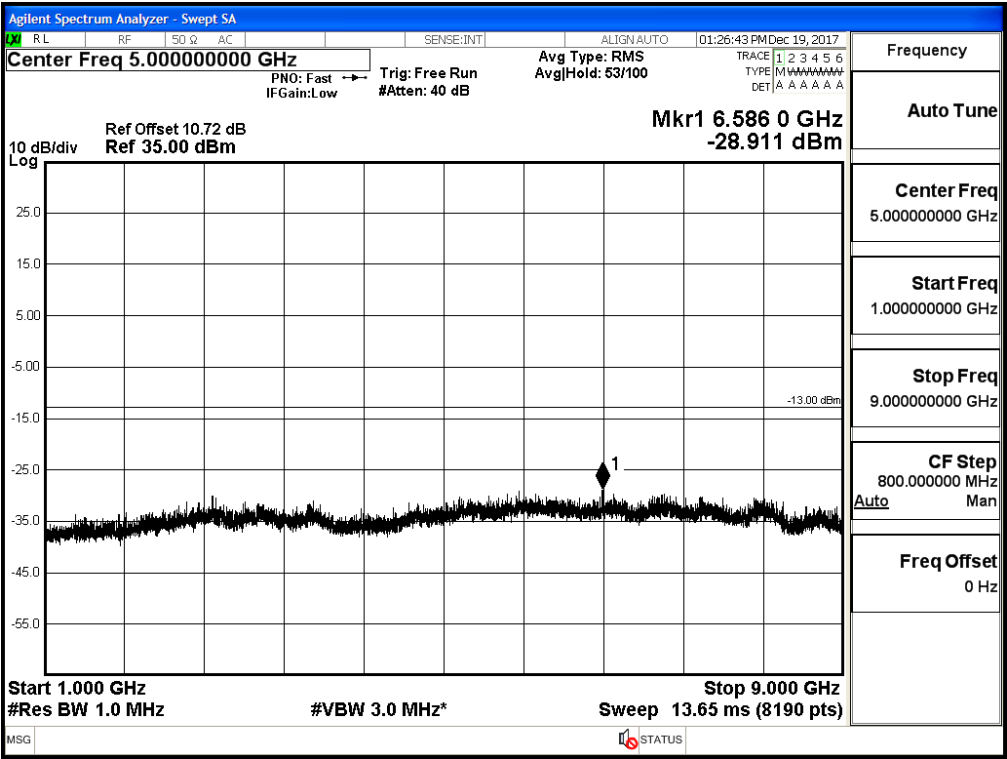
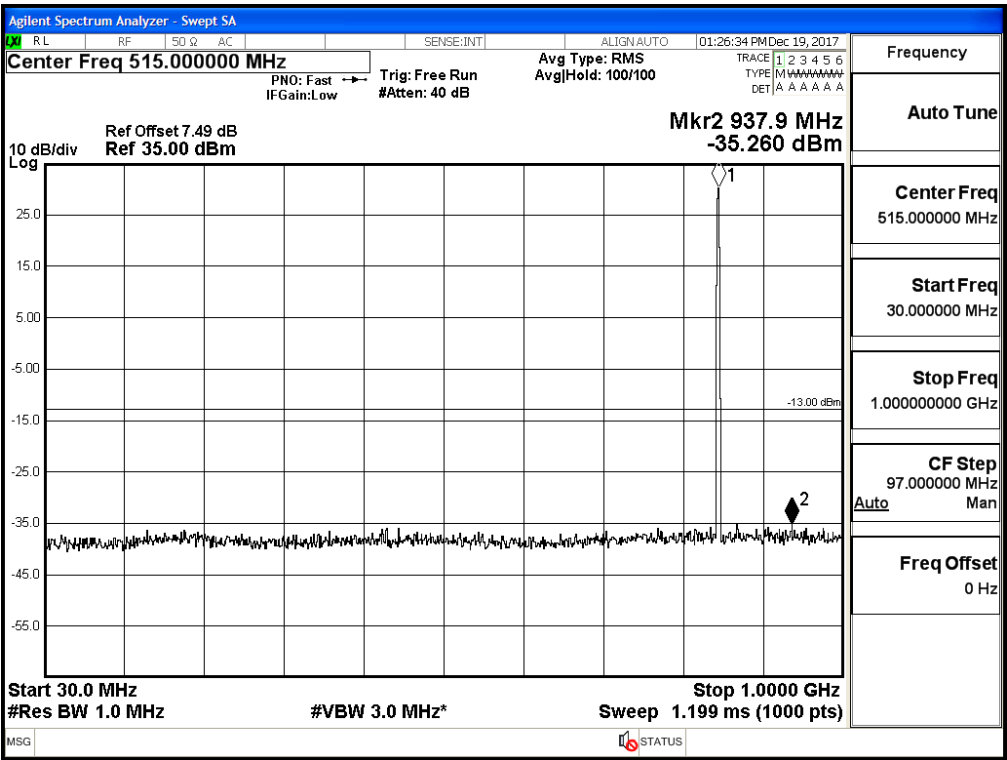
Test Channel=MCH



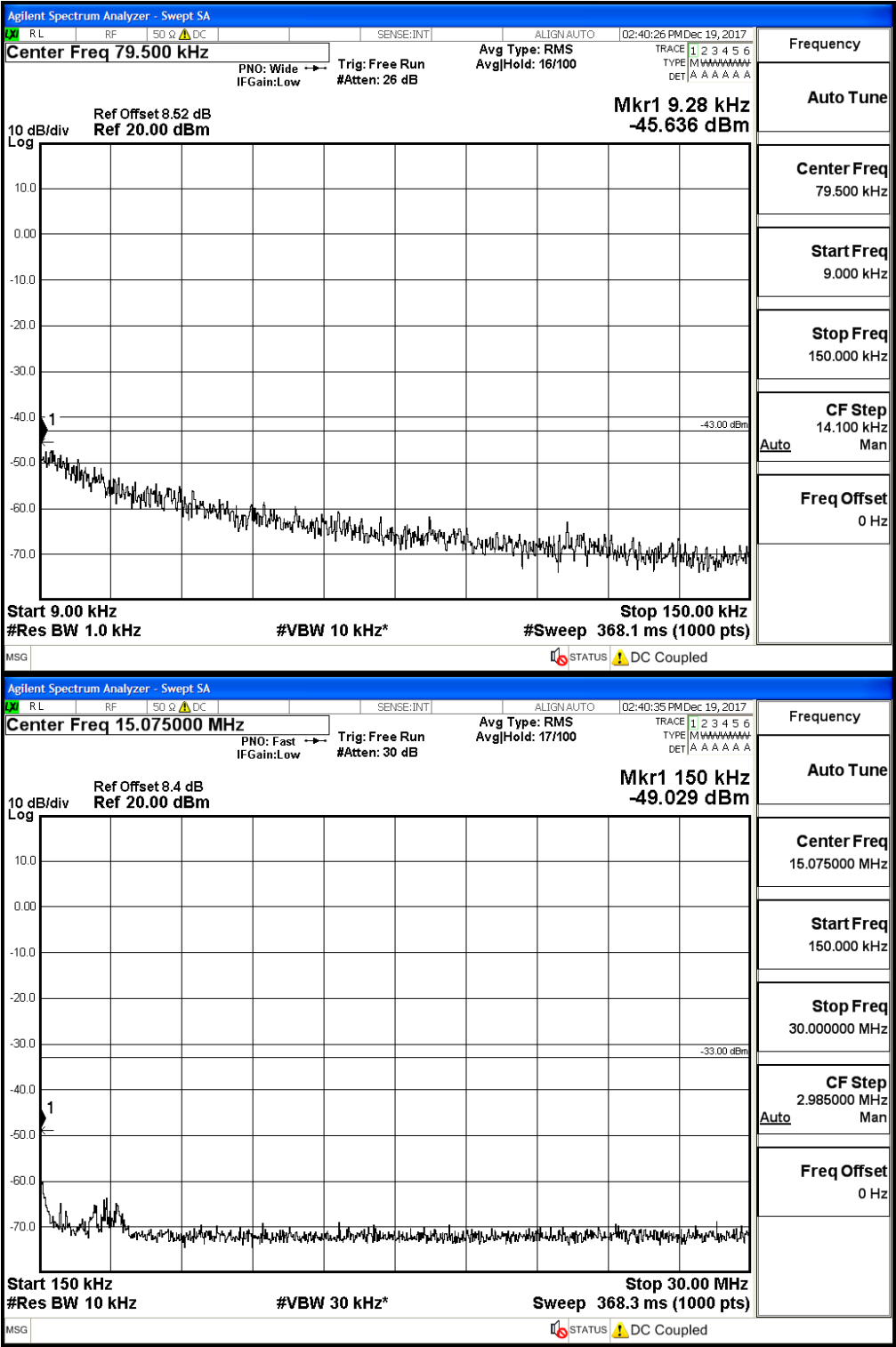


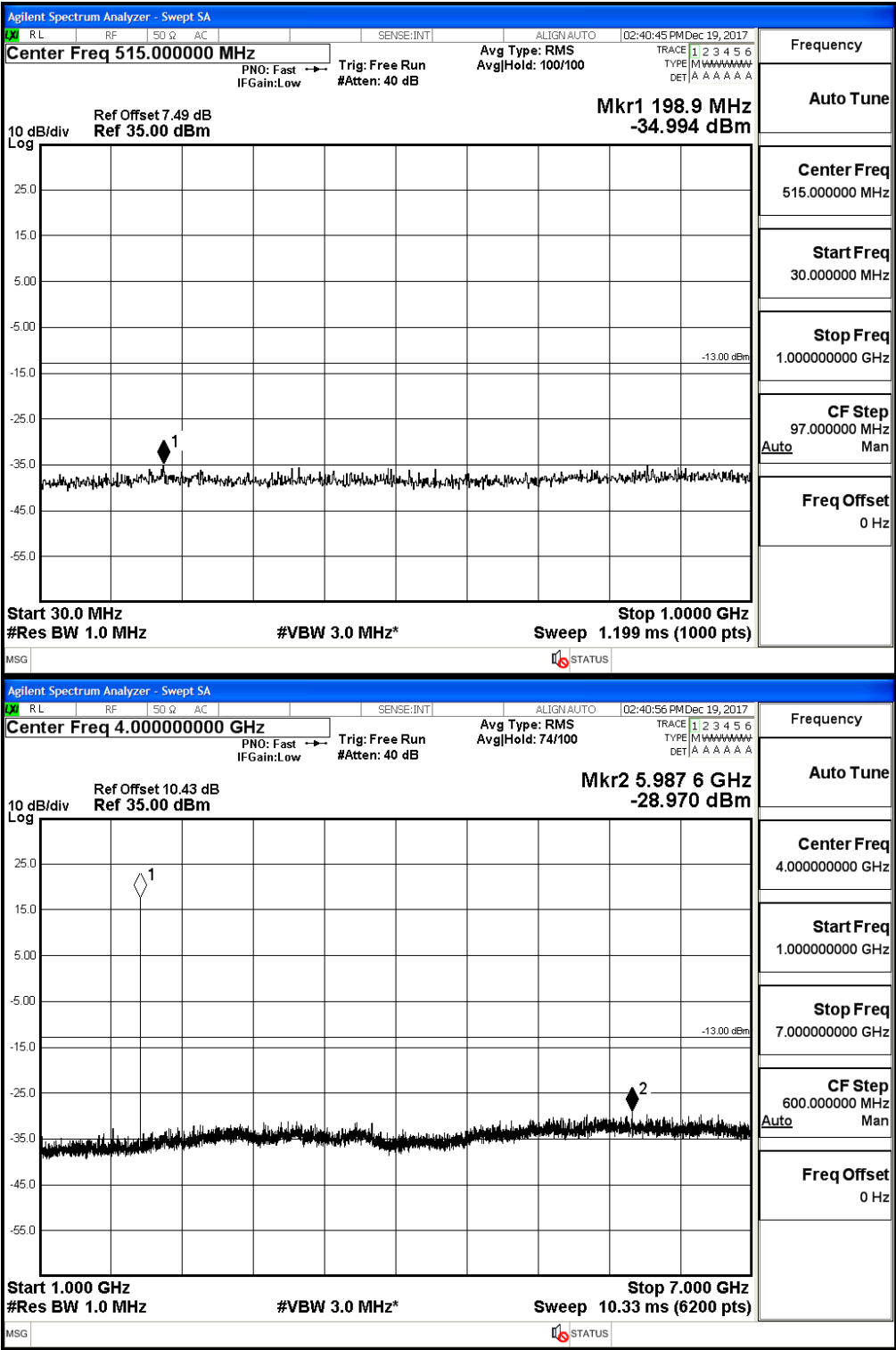
Test Channel=HCH

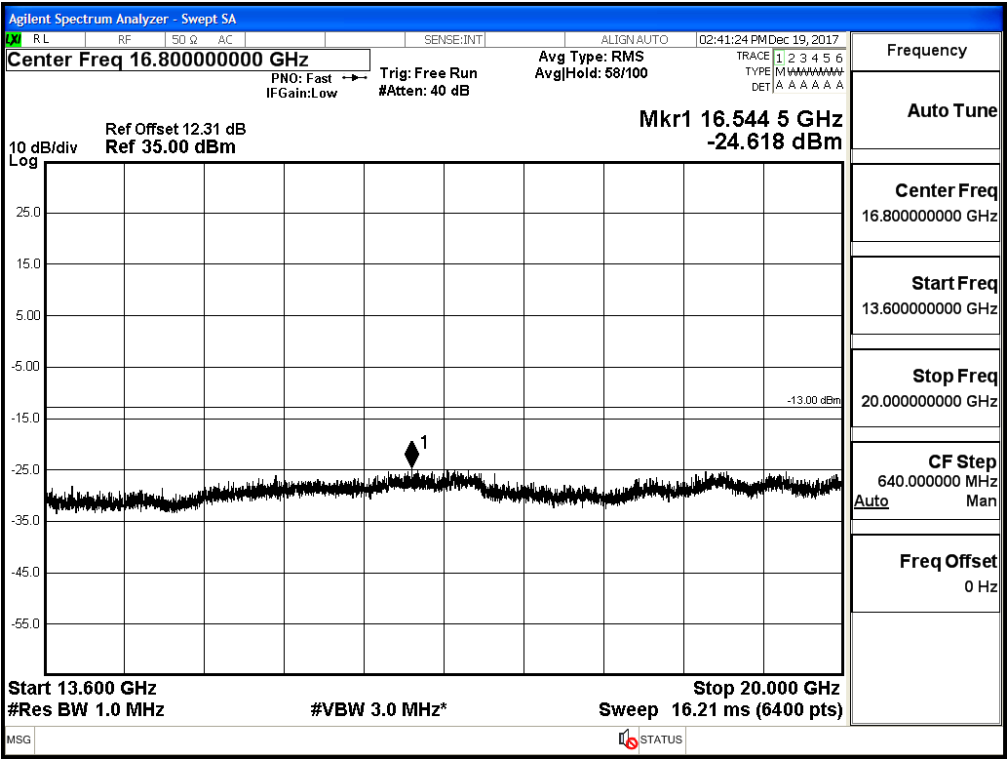
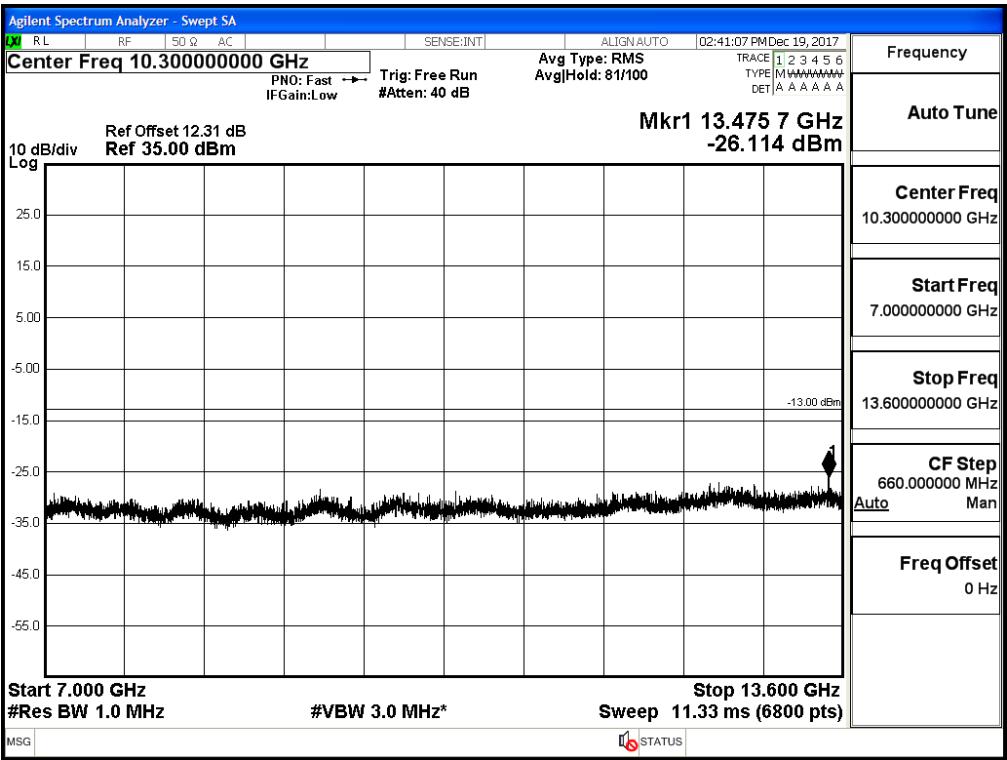




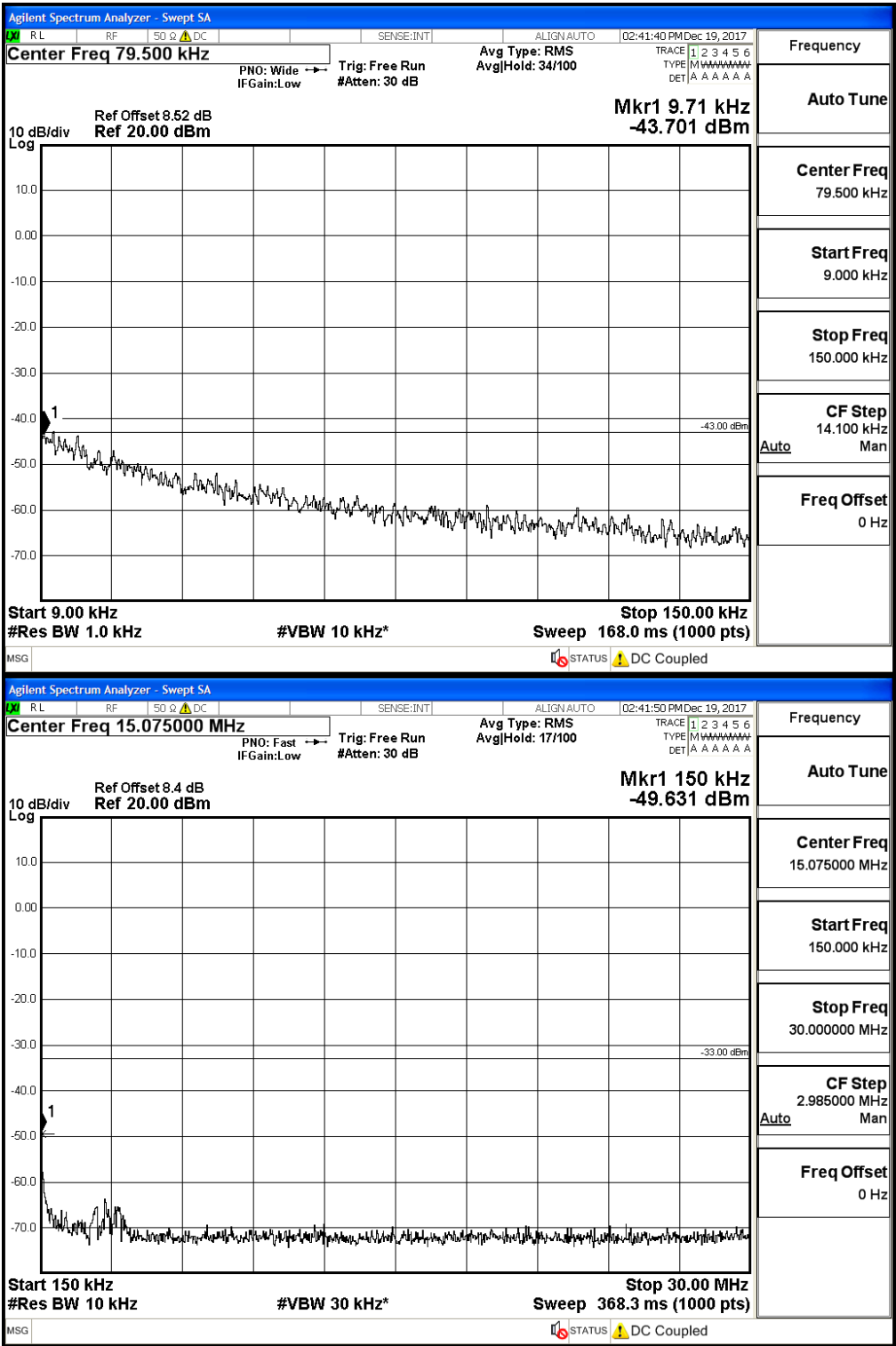
Test Band=GSM1900/Test Mode=GSM
Test Channel=LCH

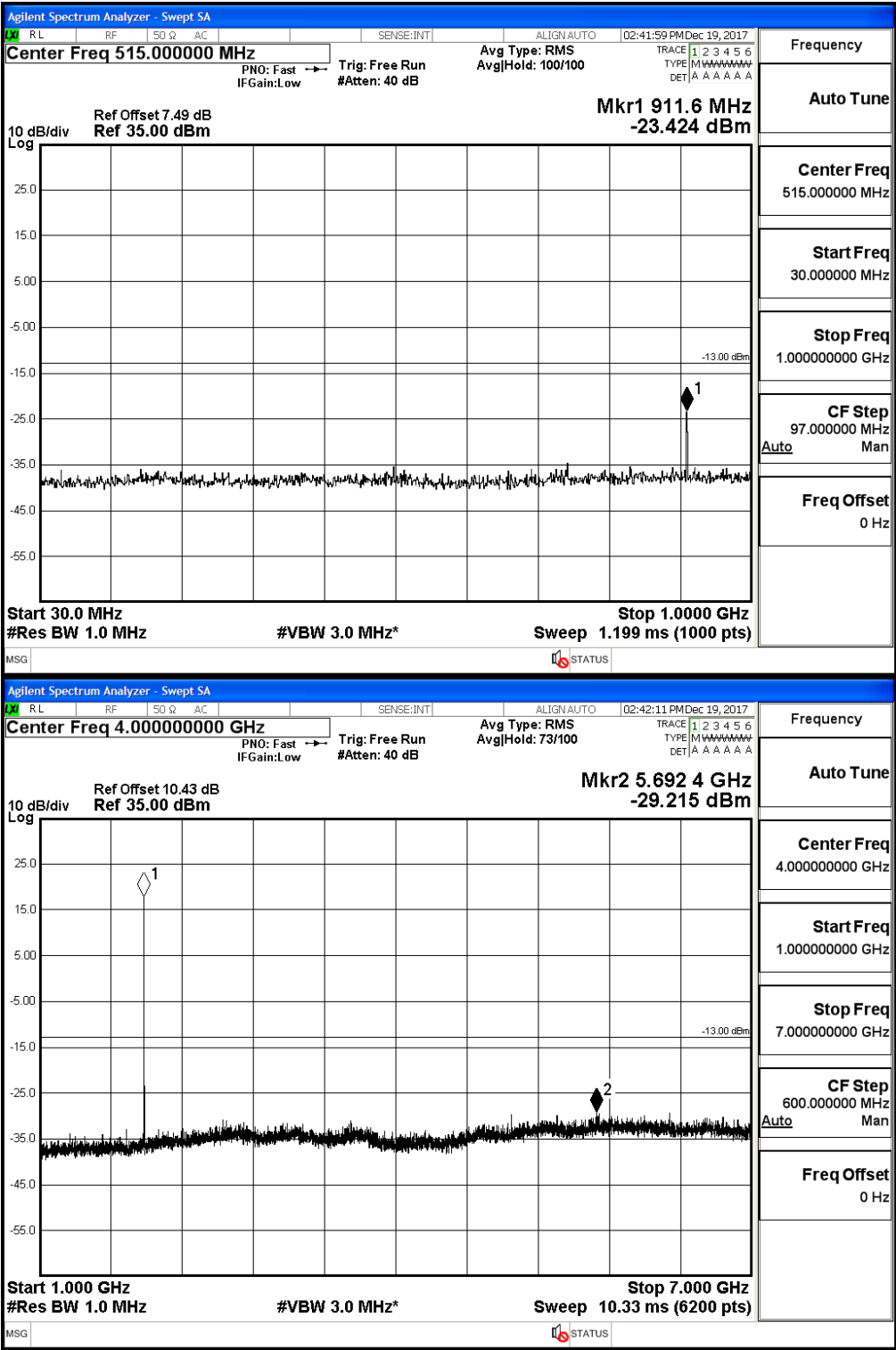


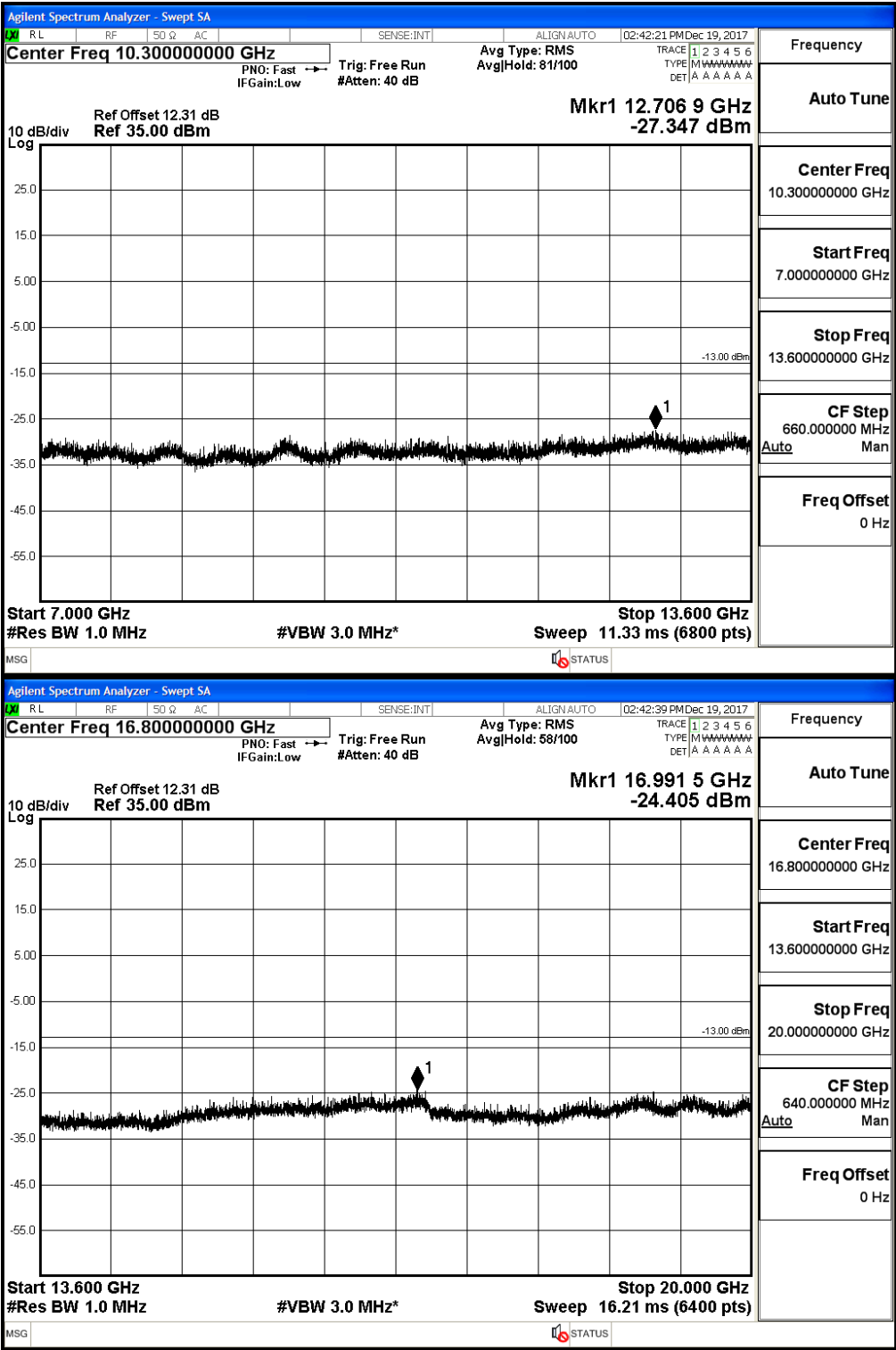




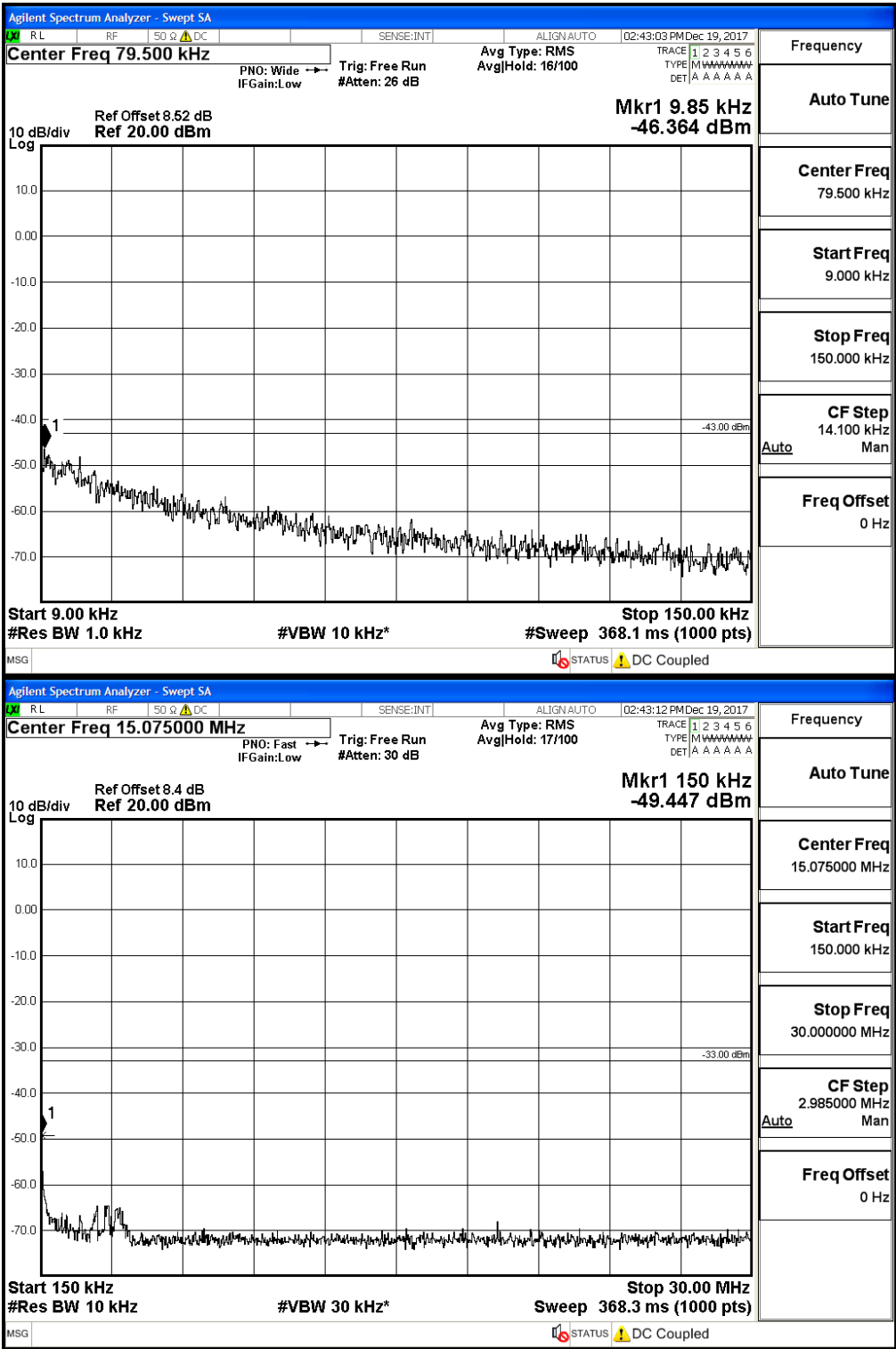
Test Channel=MCH

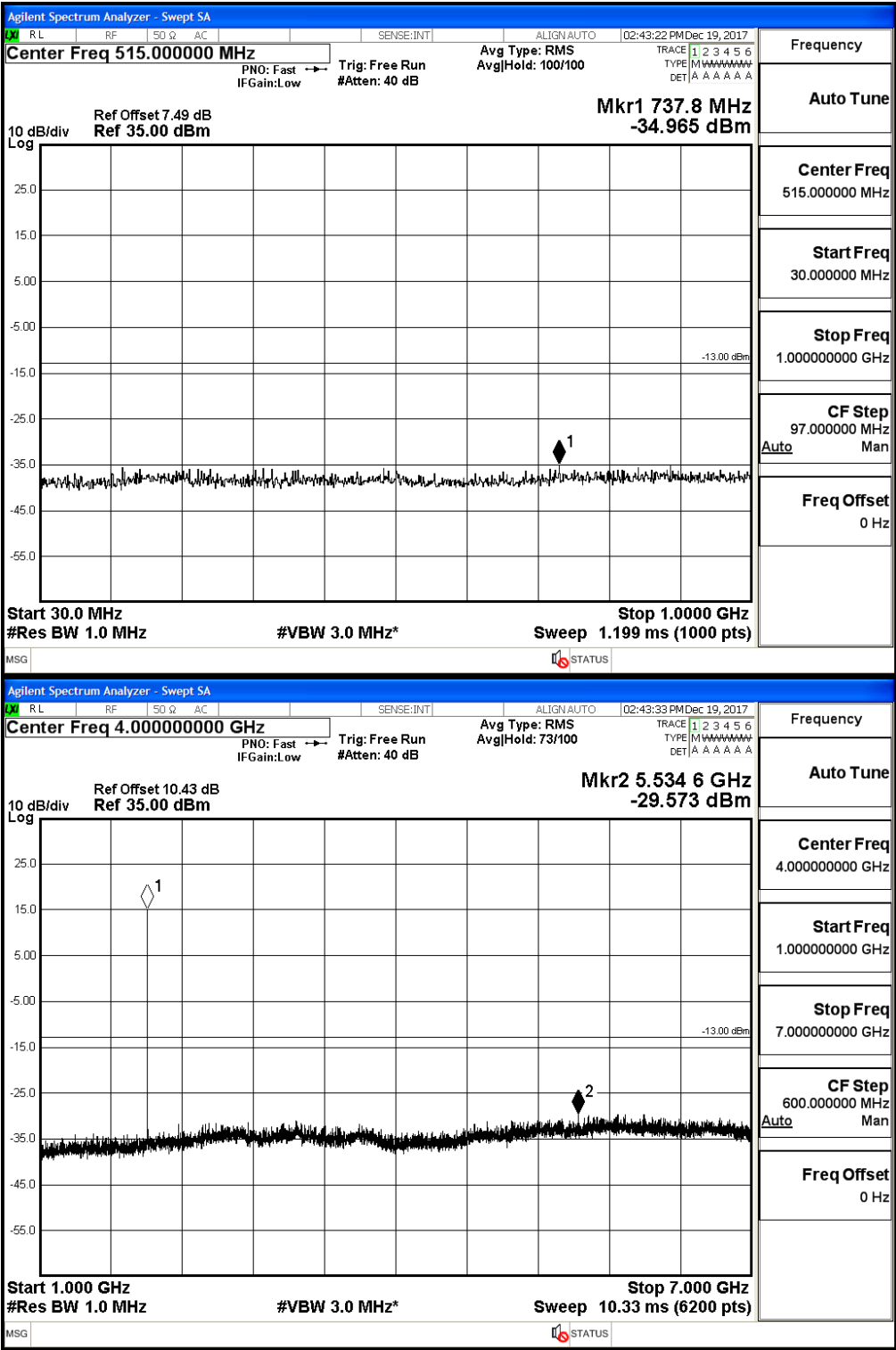


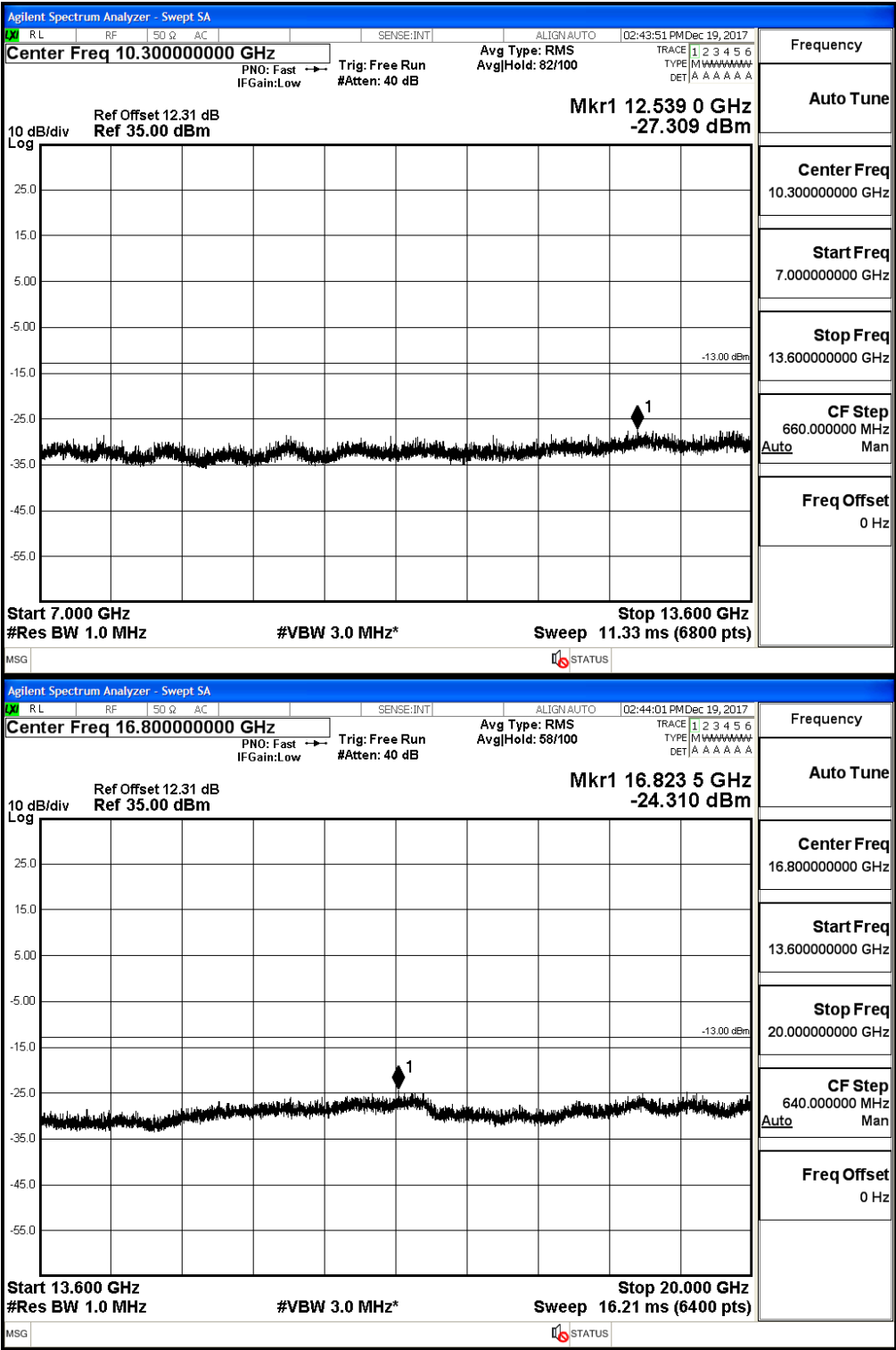




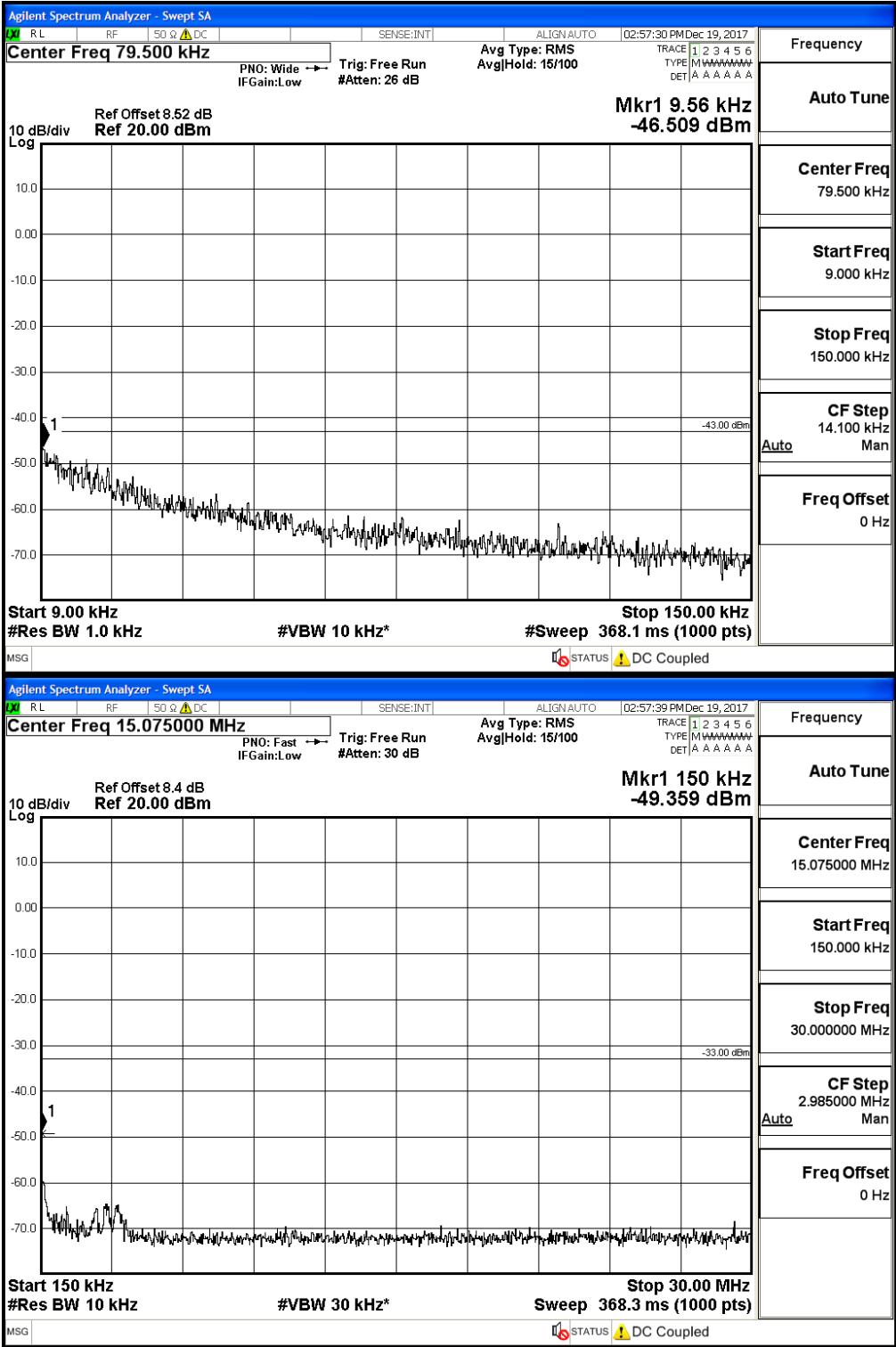
Test Channel=HCH

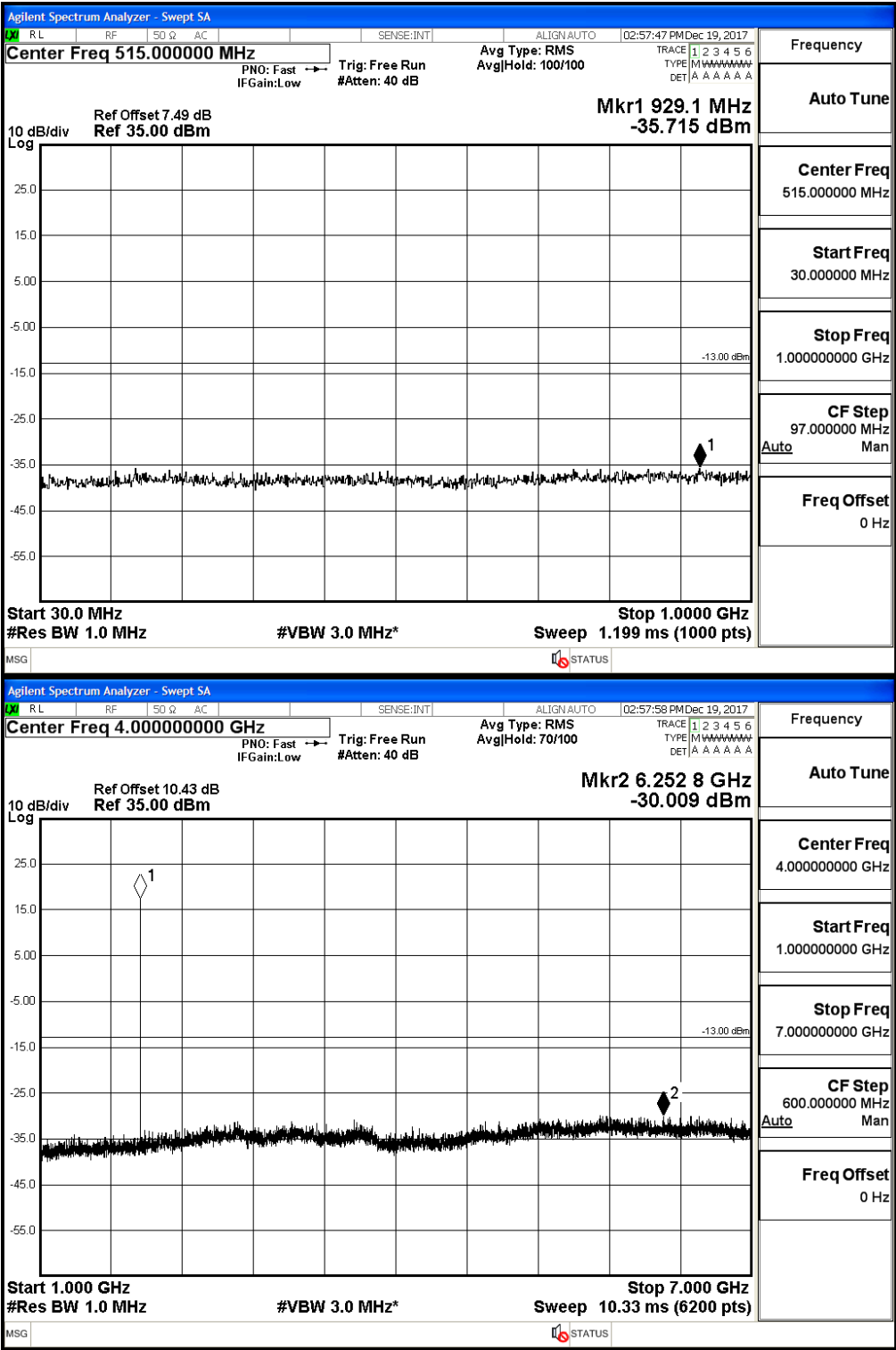


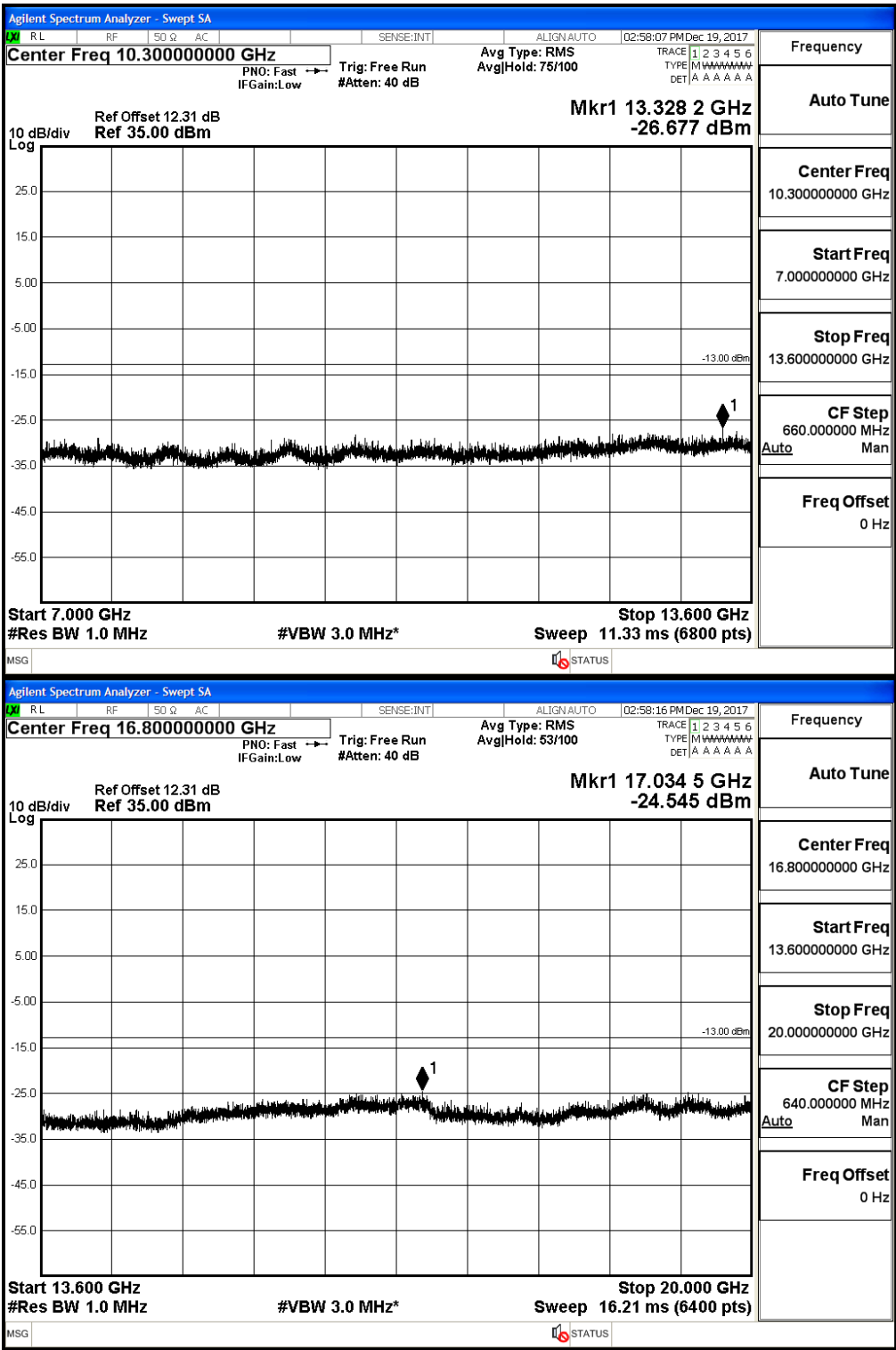




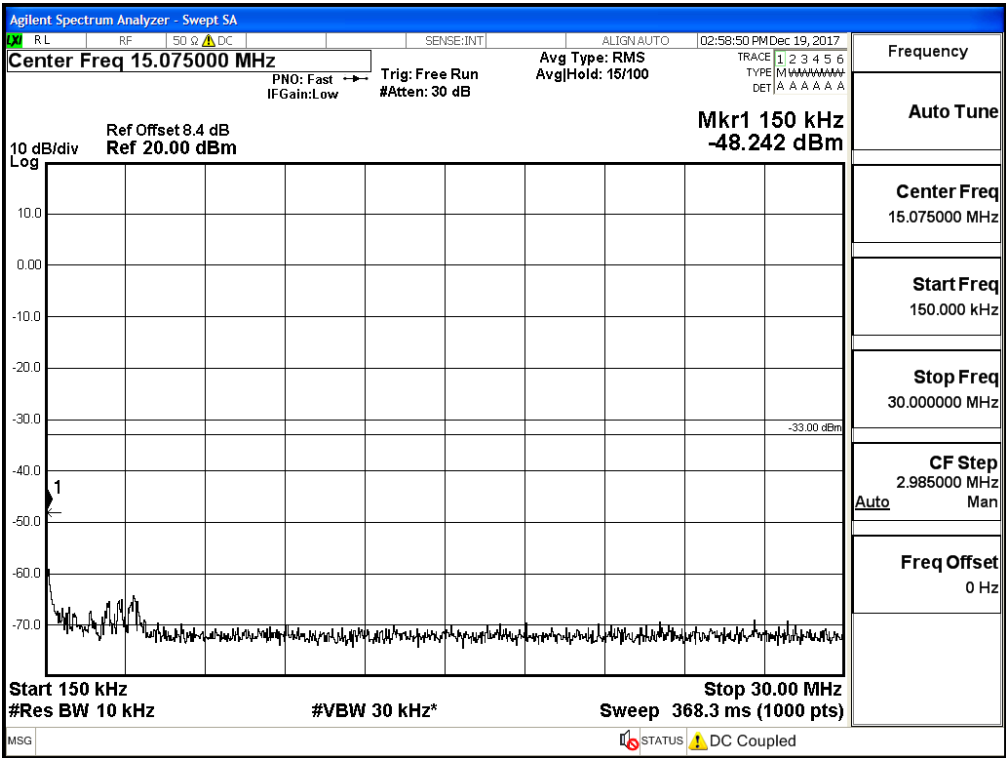
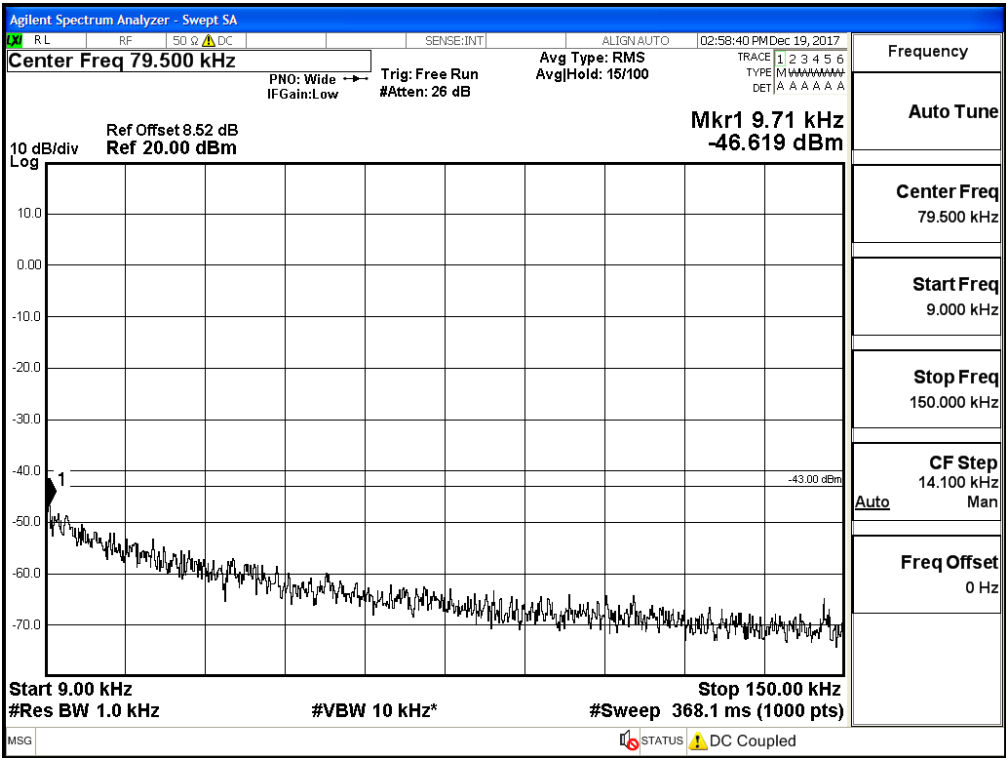
Test Mode=GPRS
Test Channel=LCH

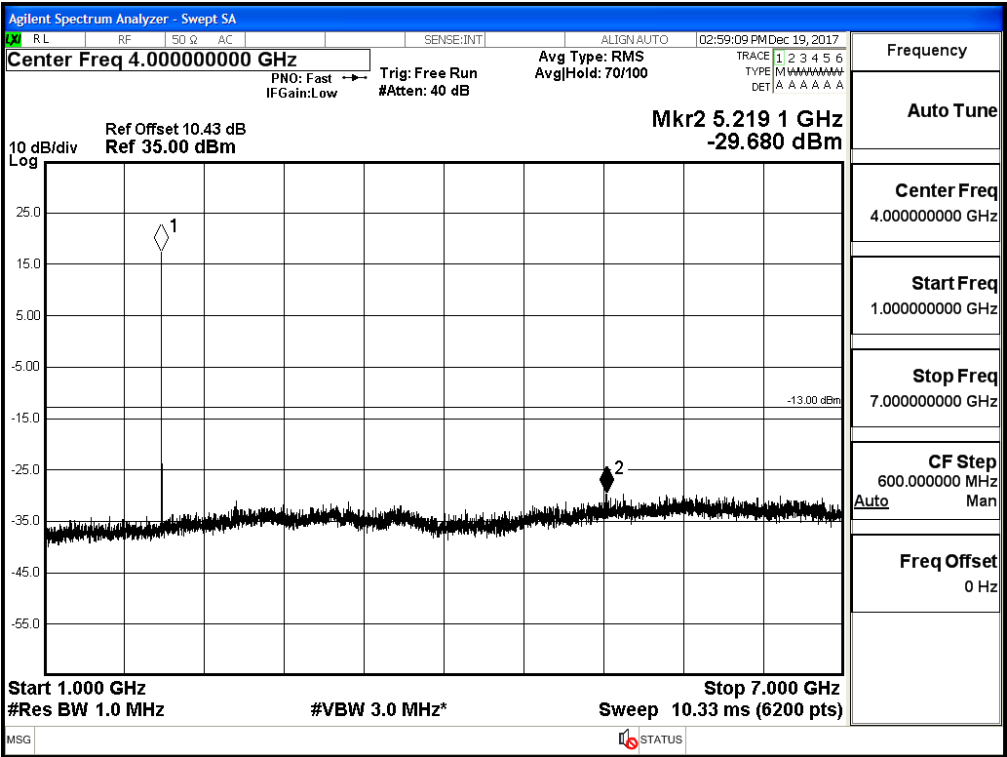
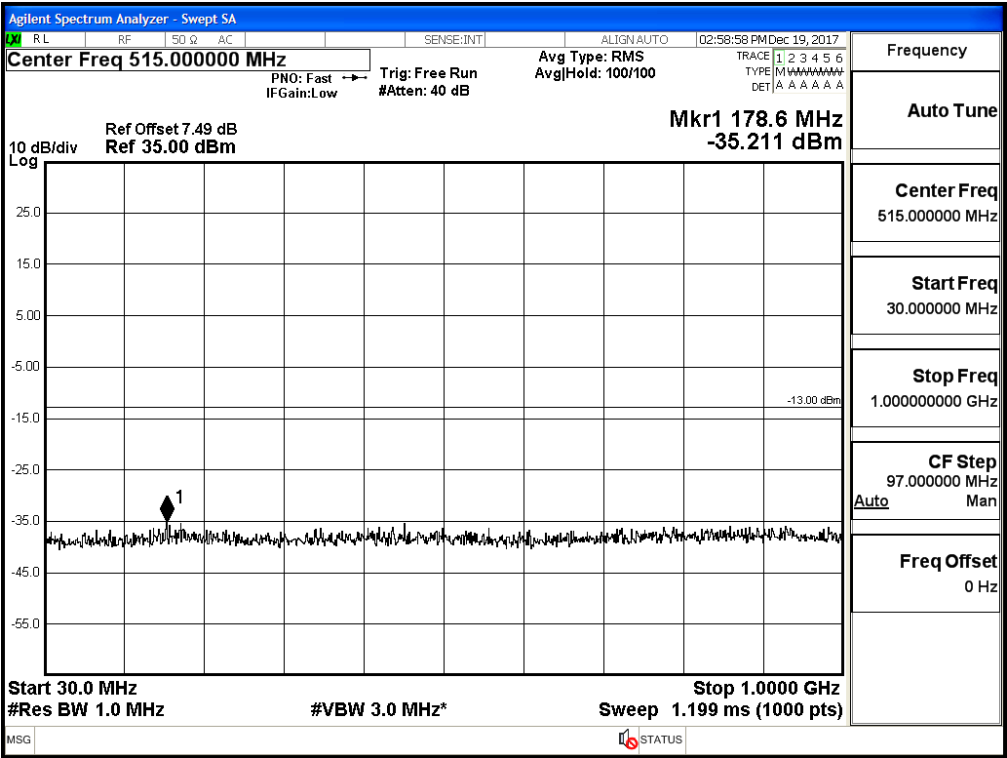


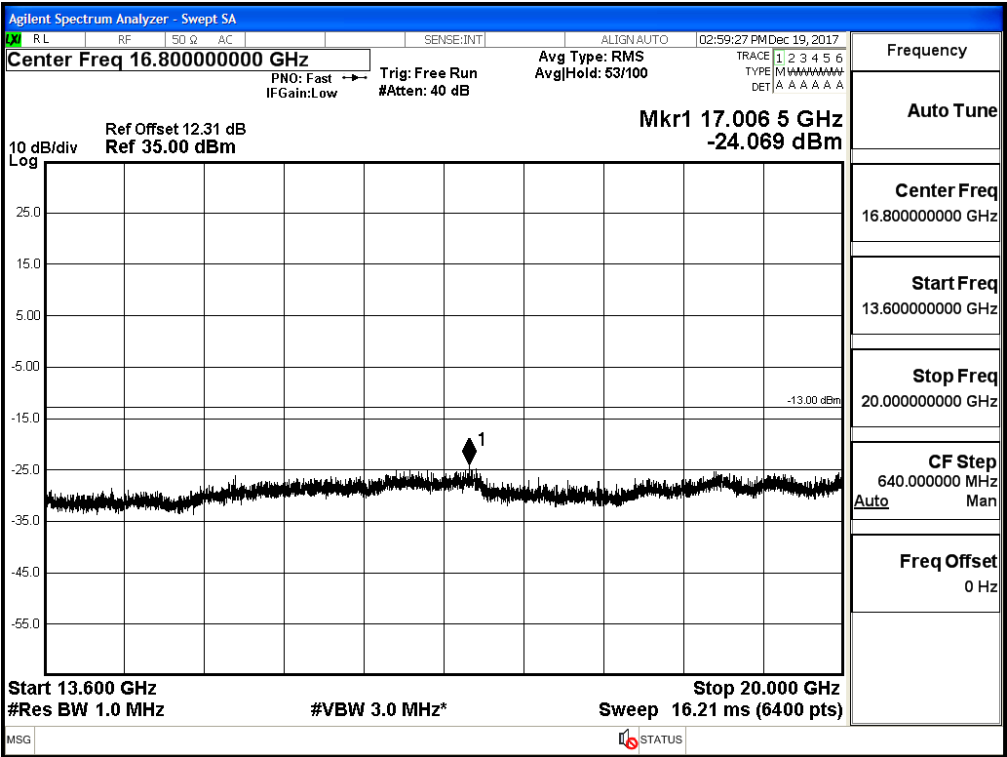
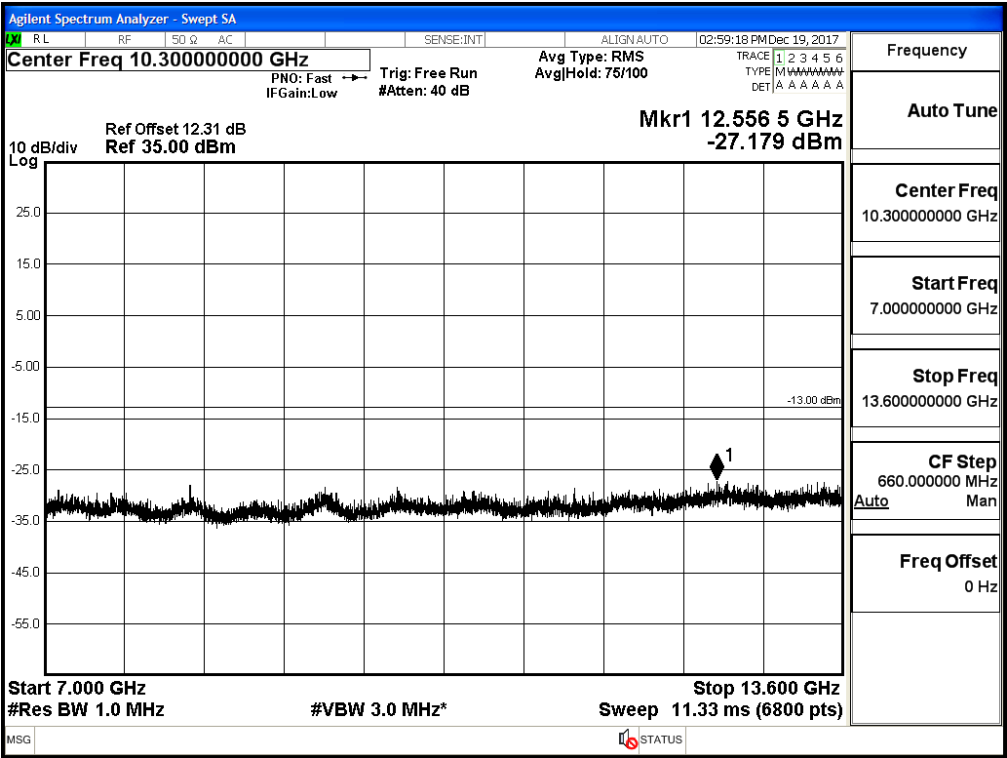




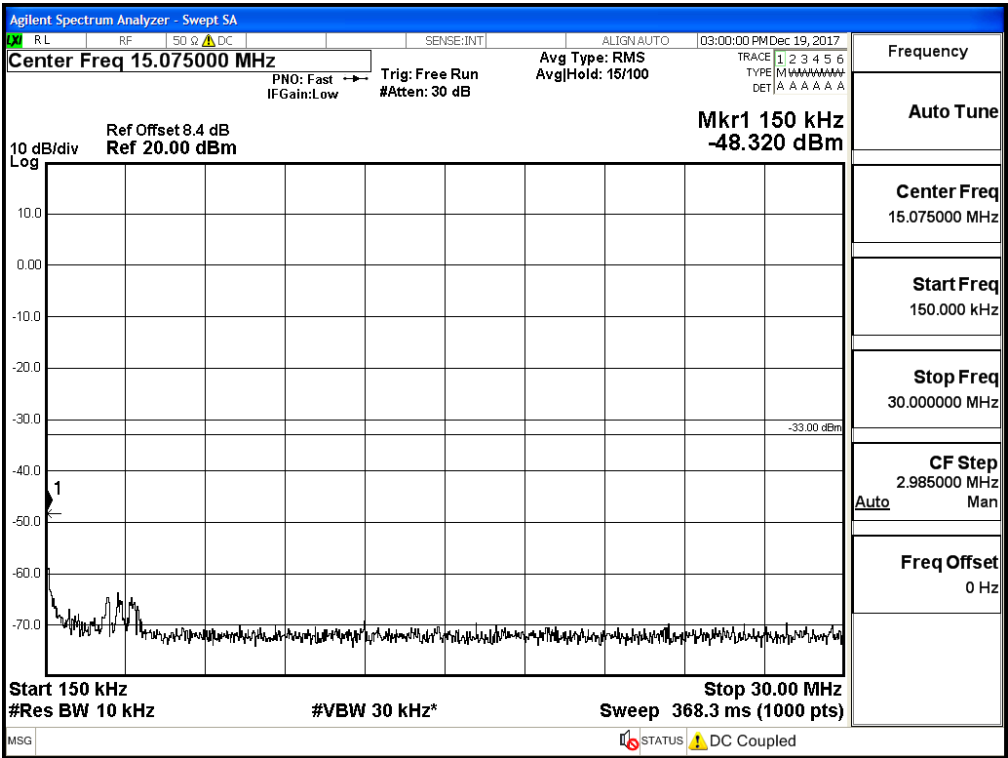
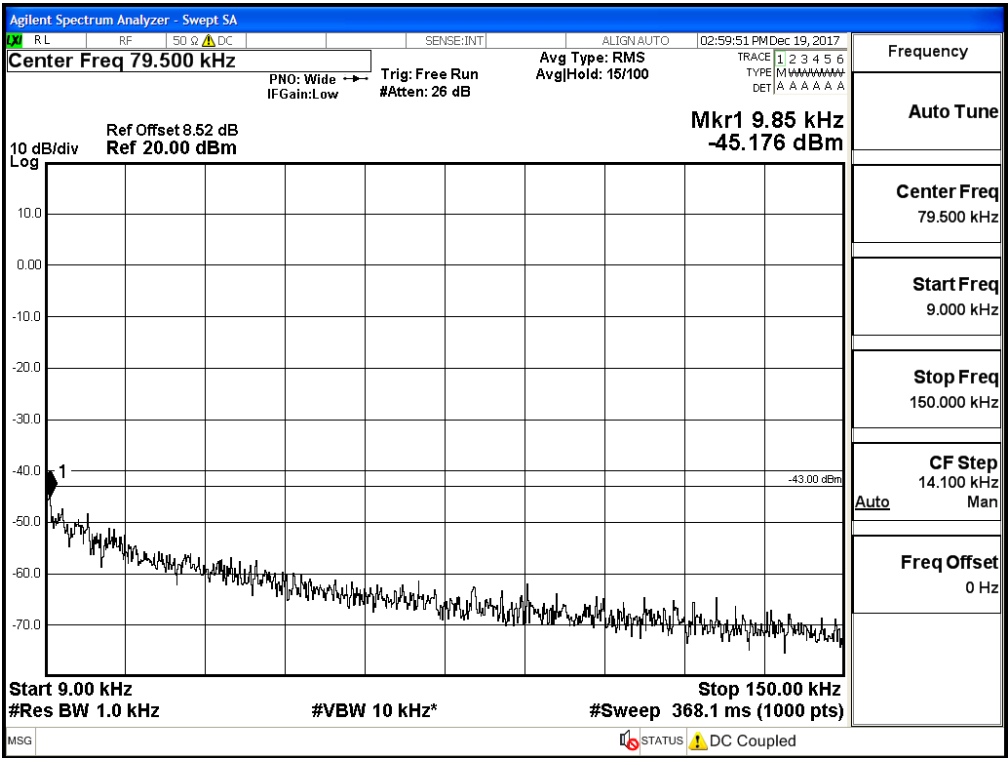
Test Channel=MCH

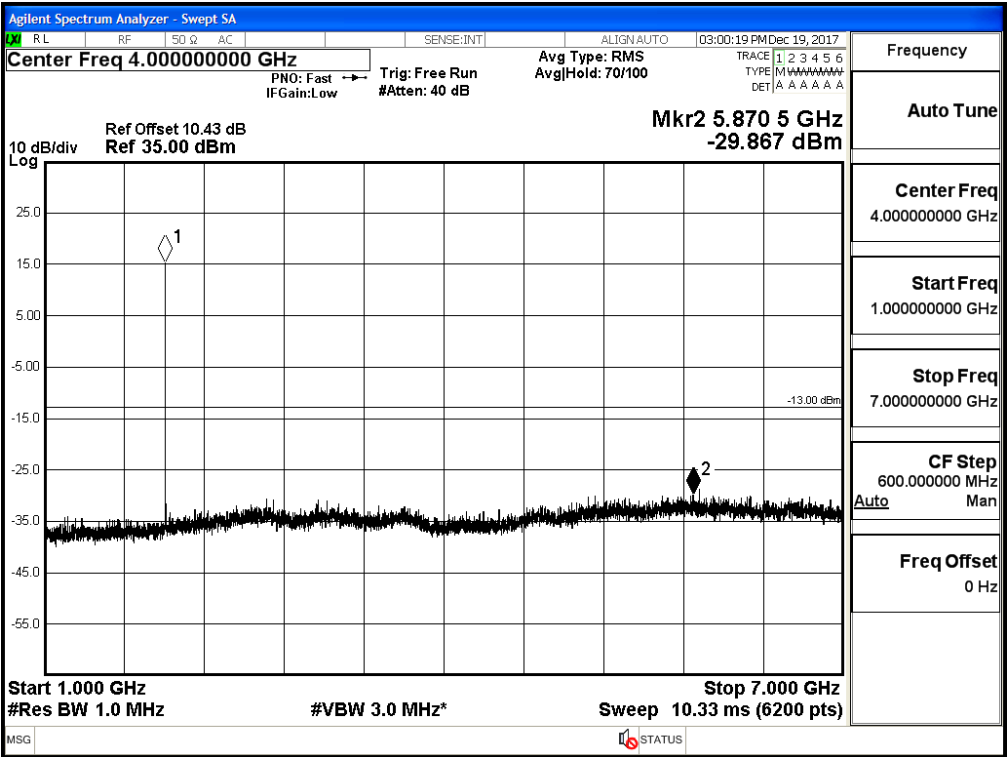
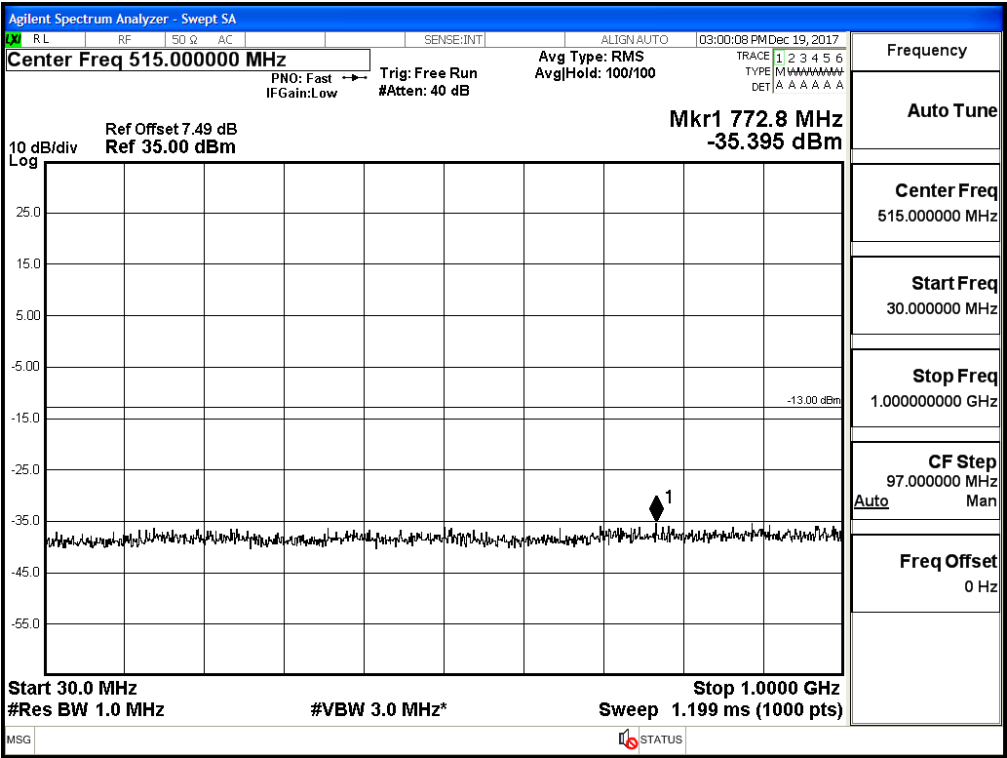


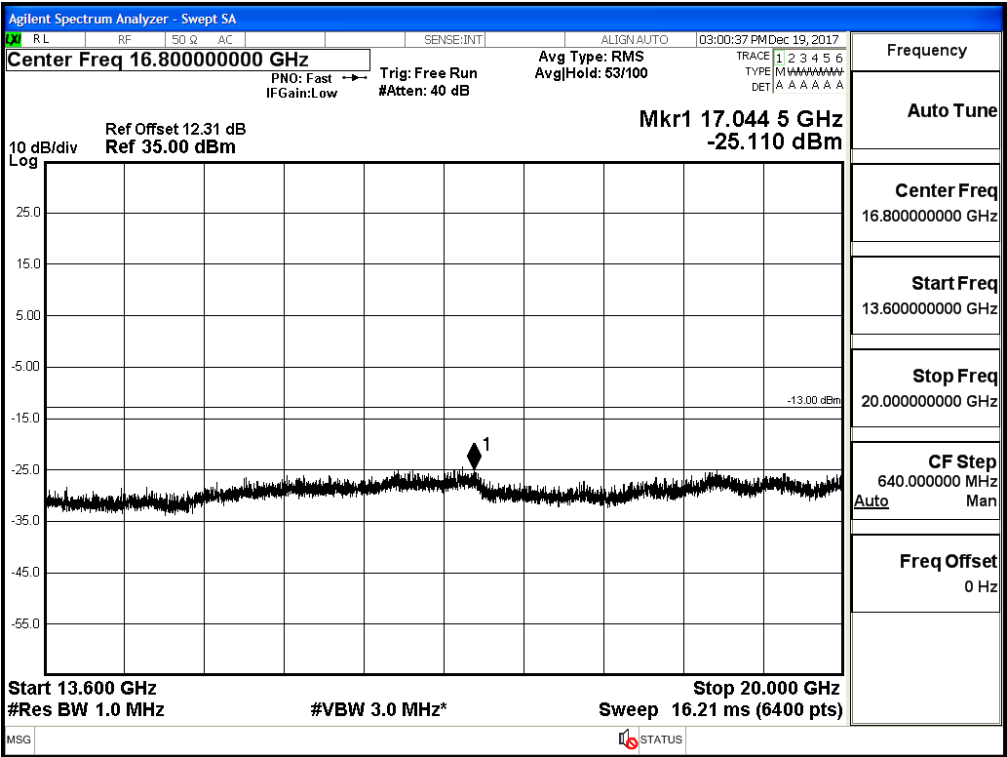
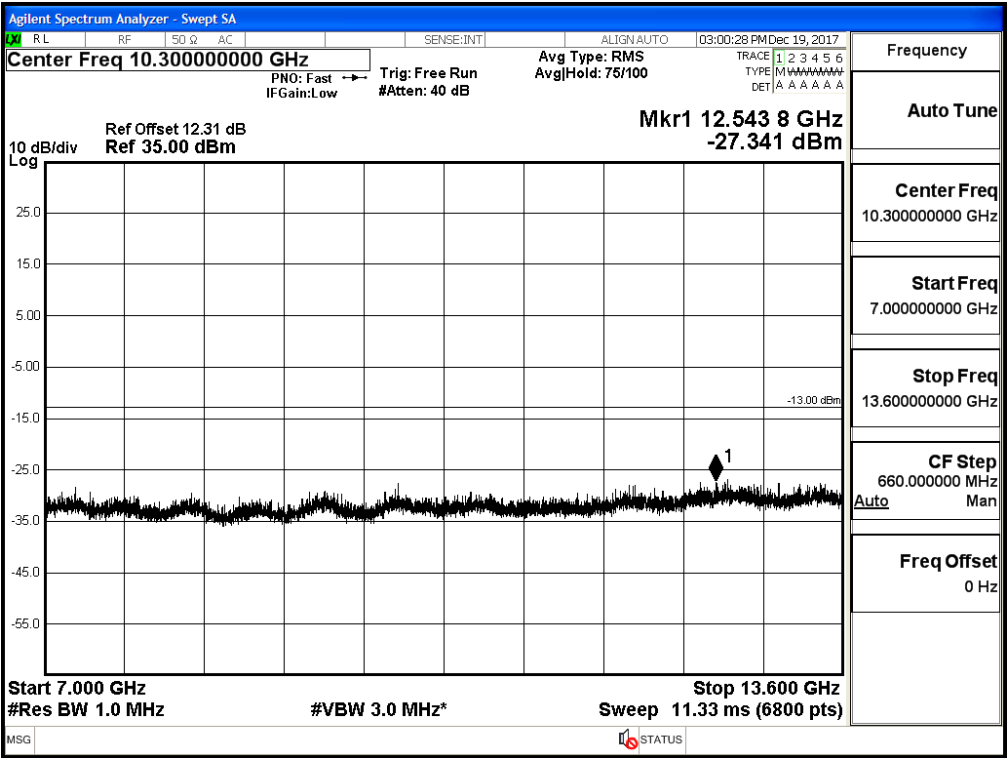




Test Channel=HCH







Appendix A) Frequency Stability

Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM1	LCH	TN	VL	-19.37	-0.023502	±2.5	PASS
			TN	VN	-12.40	-0.015045	±2.5	PASS
			TN	VH	-15.05	-0.018260	±2.5	PASS
		MCH	TN	VL	-10.01	-0.011965	±2.5	PASS
			TN	VN	-11.69	-0.013973	±2.5	PASS
			TN	VH	-5.68	-0.006789	±2.5	PASS
		HCH	TN	VL	-9.04	-0.010650	±2.5	PASS
			TN	VN	-1.36	-0.001602	±2.5	PASS
			TN	VH	-6.52	-0.007681	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM2	LCH	TN	VL	-14.08	-0.017083	±2.5	PASS
			TN	VN	-0.06	-0.000073	±2.5	PASS
			TN	VH	9.30	0.011284	±2.5	PASS
		MCH	TN	VL	8.72	0.010423	±2.5	PASS
			TN	VN	2.78	0.003323	±2.5	PASS
			TN	VH	7.94	0.009491	±2.5	PASS
		HCH	TN	VL	-0.45	-0.000530	±2.5	PASS
			TN	VN	-1.61	-0.001897	±2.5	PASS
			TN	VH	-4.13	-0.004866	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM1	LCH	TN	VL	-20.34	-0.010993	±2.5	PASS
			TN	VN	-3.23	-0.001746	±2.5	PASS
			TN	VH	-8.07	-0.004362	±2.5	PASS
		MCH	TN	VL	-14.79	-0.007867	±2.5	PASS
			TN	VN	-10.98	-0.005840	±2.5	PASS
			TN	VH	-6.59	-0.003505	±2.5	PASS
		HCH	TN	VL	6.26	0.003278	±2.5	PASS
			TN	VN	-1.42	-0.000744	±2.5	PASS
			TN	VH	-0.39	-0.000204	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM2	LCH	TN	VL	-7.94	-0.004291	±2.5	PASS
			TN	VN	5.36	0.002897	±2.5	PASS
			TN	VH	13.04	0.007048	±2.5	PASS
		MCH	TN	VL	16.40	0.008723	±2.5	PASS
			TN	VN	15.88	0.008447	±2.5	PASS
			TN	VH	19.05	0.010133	±2.5	PASS
		HCH	TN	VL	12.59	0.006592	±2.5	PASS
			TN	VN	16.72	0.008755	±2.5	PASS
			TN	VH	9.56	0.005006	±2.5	PASS

Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM1	LCH	VN	-30	-14.40	-0.017471	±2.5	PASS
			VN	-20	-20.02	-0.024290	±2.5	PASS
			VN	-10	-16.27	-0.019740	±2.5	PASS
			VN	0	-13.62	-0.016525	±2.5	PASS
			VN	10	-0.45	-0.000546	±2.5	PASS
			VN	20	-3.16	-0.003834	±2.5	PASS
			VN	30	-6.91	-0.008384	±2.5	PASS
			VN	40	-10.59	-0.012849	±2.5	PASS
			VN	50	-4.78	-0.005800	±2.5	PASS
GSM850	TM1	MCH	VN	-30	-4.33	-0.005176	±2.5	PASS
			VN	-20	-7.23	-0.008642	±2.5	PASS
			VN	-10	-1.94	-0.002319	±2.5	PASS
			VN	0	-2.26	-0.002701	±2.5	PASS
			VN	10	-5.88	-0.007028	±2.5	PASS
			VN	20	-5.23	-0.006251	±2.5	PASS
			VN	30	-6.13	-0.007327	±2.5	PASS
			VN	40	-4.78	-0.005714	±2.5	PASS
			VN	50	-10.85	-0.012969	±2.5	PASS
GSM850	TM1	HCH	VN	-30	-8.59	-0.010120	±2.5	PASS
			VN	-20	-9.23	-0.010874	±2.5	PASS
			VN	-10	-12.53	-0.014762	±2.5	PASS
			VN	0	-10.20	-0.012017	±2.5	PASS
			VN	10	-17.76	-0.020924	±2.5	PASS
			VN	20	-10.40	-0.012253	±2.5	PASS
			VN	30	-10.98	-0.012936	±2.5	PASS
			VN	40	-2.65	-0.003122	±2.5	PASS
			VN	50	-2.13	-0.002509	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM850	TM2	LCH	VN	-30	13.43	0.016295	±2.5	PASS
			VN	-20	13.56	0.016452	±2.5	PASS
			VN	-10	14.79	0.017945	±2.5	PASS
			VN	0	16.47	0.019983	±2.5	PASS
			VN	10	12.66	0.015360	±2.5	PASS
			VN	20	8.07	0.009791	±2.5	PASS
			VN	30	9.23	0.011199	±2.5	PASS
			VN	40	9.81	0.011902	±2.5	PASS
			VN	50	6.26	0.007595	±2.5	PASS
GSM850	TM2	MCH	VN	-30	10.85	0.012969	±2.5	PASS
			VN	-20	6.84	0.008176	±2.5	PASS
			VN	-10	7.55	0.009025	±2.5	PASS
			VN	0	-2.58	-0.003084	±2.5	PASS
			VN	10	-2.20	-0.002630	±2.5	PASS
			VN	20	1.68	0.002008	±2.5	PASS
			VN	30	2.32	0.002773	±2.5	PASS
			VN	40	0.97	0.001159	±2.5	PASS
			VN	50	3.42	0.004088	±2.5	PASS
GSM850	TM2	HCH	VN	-30	0.00	0.000000	±2.5	PASS
			VN	-20	-4.91	-0.005785	±2.5	PASS
			VN	-10	-6.59	-0.007764	±2.5	PASS
			VN	0	-8.85	-0.010426	±2.5	PASS
			VN	10	-2.58	-0.003040	±2.5	PASS
			VN	20	-15.95	-0.018791	±2.5	PASS
			VN	30	-6.52	-0.007681	±2.5	PASS
			VN	40	-11.30	-0.013313	±2.5	PASS
			VN	50	-9.88	-0.011640	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM1	LCH	VN	-30	-17.43	-0.009421	±2.5	PASS
			VN	-20	-19.50	-0.010539	±2.5	PASS
			VN	-10	-4.78	-0.002584	±2.5	PASS
			VN	0	-13.04	-0.007048	±2.5	PASS
			VN	10	-11.88	-0.006421	±2.5	PASS
			VN	20	-7.17	-0.003875	±2.5	PASS
			VN	30	0.52	0.000281	±2.5	PASS
			VN	40	6.26	0.003383	±2.5	PASS
			VN	50	0.77	0.000416	±2.5	PASS
GSM1900	TM1	MCH	VN	-30	-7.49	-0.003984	±2.5	PASS
			VN	-20	-6.01	-0.003197	±2.5	PASS
			VN	-10	11.11	0.005910	±2.5	PASS
			VN	0	-19.63	-0.010441	±2.5	PASS
			VN	10	-16.59	-0.008824	±2.5	PASS
			VN	20	-6.52	-0.003468	±2.5	PASS
			VN	30	-2.91	-0.001548	±2.5	PASS
			VN	40	1.29	0.000686	±2.5	PASS
			VN	50	3.29	0.001750	±2.5	PASS
GSM1900	TM1	HCH	VN	-30	-1.74	-0.000911	±2.5	PASS
			VN	-20	-5.94	-0.003110	±2.5	PASS
			VN	-10	-1.23	-0.000644	±2.5	PASS
			VN	0	-2.32	-0.001215	±2.5	PASS
			VN	10	-2.00	-0.001047	±2.5	PASS
			VN	20	4.71	0.002466	±2.5	PASS
			VN	30	13.43	0.007032	±2.5	PASS
			VN	40	-0.26	-0.000136	±2.5	PASS
			VN	50	-3.81	-0.001995	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
GSM1900	TM2	LCH	VN	-30	13.17	0.007118	±2.5	PASS
			VN	-20	19.63	0.010610	±2.5	PASS
			VN	-10	22.79	0.012318	±2.5	PASS
			VN	0	21.89	0.011831	±2.5	PASS
			VN	10	18.60	0.010053	±2.5	PASS
			VN	20	20.08	0.010853	±2.5	PASS
			VN	30	18.85	0.010188	±2.5	PASS
			VN	40	20.53	0.011096	±2.5	PASS
			VN	50	13.43	0.007259	±2.5	PASS
GSM1900	TM2	MCH	VN	-30	14.92	0.007936	±2.5	PASS
			VN	-20	23.44	0.012468	±2.5	PASS
			VN	-10	18.79	0.009995	±2.5	PASS
			VN	0	21.37	0.011367	±2.5	PASS
			VN	10	17.56	0.009340	±2.5	PASS
			VN	20	21.63	0.011505	±2.5	PASS
			VN	30	18.66	0.009926	±2.5	PASS
			VN	40	18.34	0.009755	±2.5	PASS
			VN	50	9.94	0.005287	±2.5	PASS
GSM1900	TM2	HCH	VN	-30	11.30	0.005917	±2.5	PASS
			VN	-20	9.62	0.005037	±2.5	PASS
			VN	-10	9.62	0.005037	±2.5	PASS
			VN	0	13.30	0.006964	±2.5	PASS
			VN	10	3.23	0.001691	±2.5	PASS
			VN	20	-3.68	-0.001927	±2.5	PASS
			VN	30	-2.13	-0.001115	±2.5	PASS
			VN	40	3.29	0.001723	±2.5	PASS
			VN	50	-3.16	-0.001655	±2.5	PASS