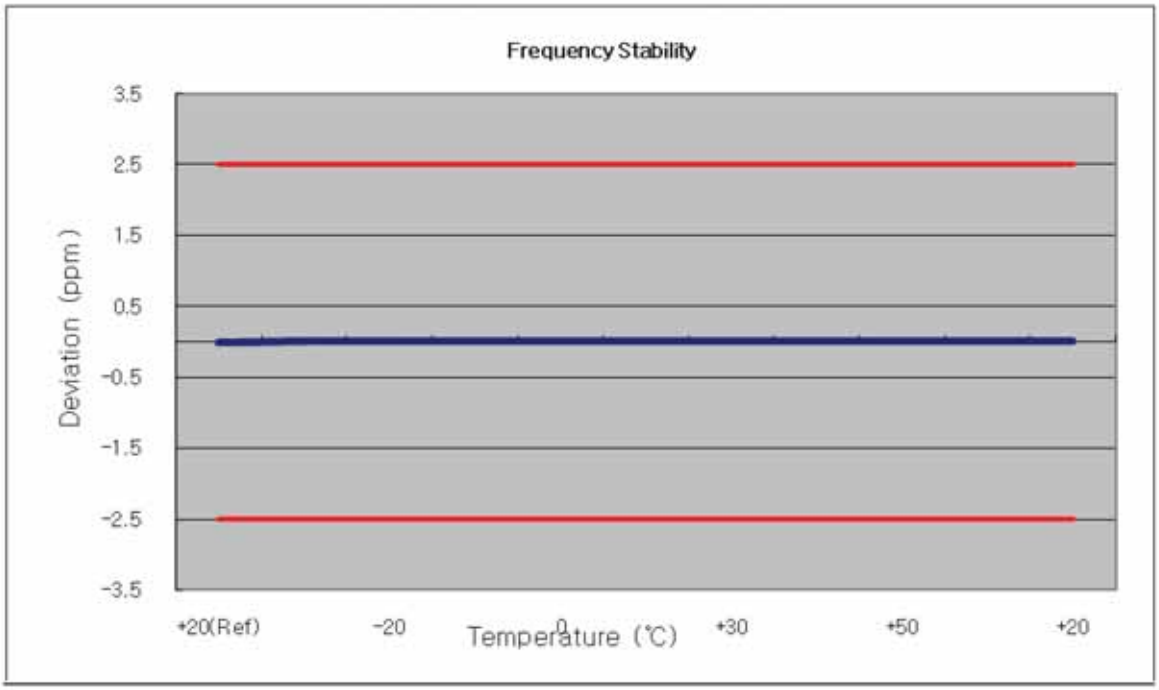
7.7.2 FREQUENCY STABILITY (GSM1900)

- ▣ OPERATING FREQUENCY: 1880,000,000 Hz
- ▣ CHANNEL: 661
- ▣ REFERENCE VOLTAGE: 3.8 VDC
- ▣ DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

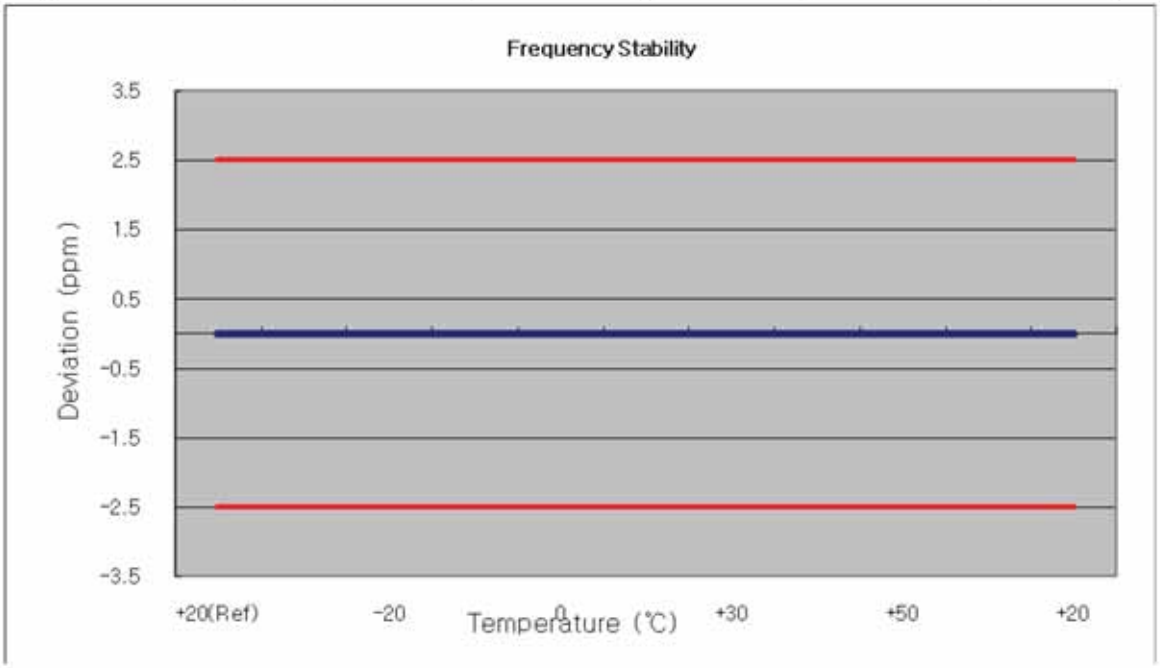
Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.800	+20(Ref)	1879 999 982	0	0.000 000	0.000
100%		-30	1880 000 005	23.18	0.000 001	0.012
100%		-20	1880 000 001	19.24	0.000 001	0.010
100%		-10	1879 999 999	16.33	0.000 001	0.009
100%		0	1879 999 997	15.24	0.000 001	0.008
100%		+10	1880 000 004	22.28	0.000 001	0.012
100%		+30	1880 000 005	22.55	0.000 001	0.012
100%		+40	1880 000 001	18.61	0.000 001	0.010
100%		+50	1880 000 003	21.25	0.000 001	0.011
115%	4.370	+20	1880 000 004	21.52	0.000 001	0.011
Batt. Endpoint	3.500	+20	1880 000 001	18.69	0.000 001	0.010



7.7.3 FREQUENCY STABILITY (WCDMA850)

- ▣ OPERATING FREQUENCY: 836,600,000 Hz
- ▣ CHANNEL: 4183
- ▣ REFERENCE VOLTAGE: 3.8 VDC
- ▣ DEVIATION LIM IT: ± 0.000 25 % or 2.5 ppm

Voltage (%)	Power (VDC)	Temp. (℃)	Frequency (Hz)	Frequency Error (Hz)	Deviation (%)	ppm
100%	3.800	+20(Ref)	836 600 003	0	0.000 000	0.000
100%		-30	836 599 997	-2.61	0.000 000	-0.003
100%		-20	836 600 003	3.39	0.000 000	0.004
100%		-10	836 599 997	-2.56	0.000 000	-0.003
100%		0	836 600 003	2.98	0.000 000	0.004
100%		+10	836 599 997	-2.78	0.000 000	-0.003
100%		+30	836 600 003	3.34	0.000 000	0.004
100%		+40	836 600 002	2.49	0.000 000	0.003
100%		+50	836 600 003	3.43	0.000 000	0.004
115%	4.370	+20	836 599 996	-3.54	0.000 000	-0.004
Batt. Endpoint	3.500	+20	836 600 002	2.35	0.000 000	0.003



8. TEST PLOTS

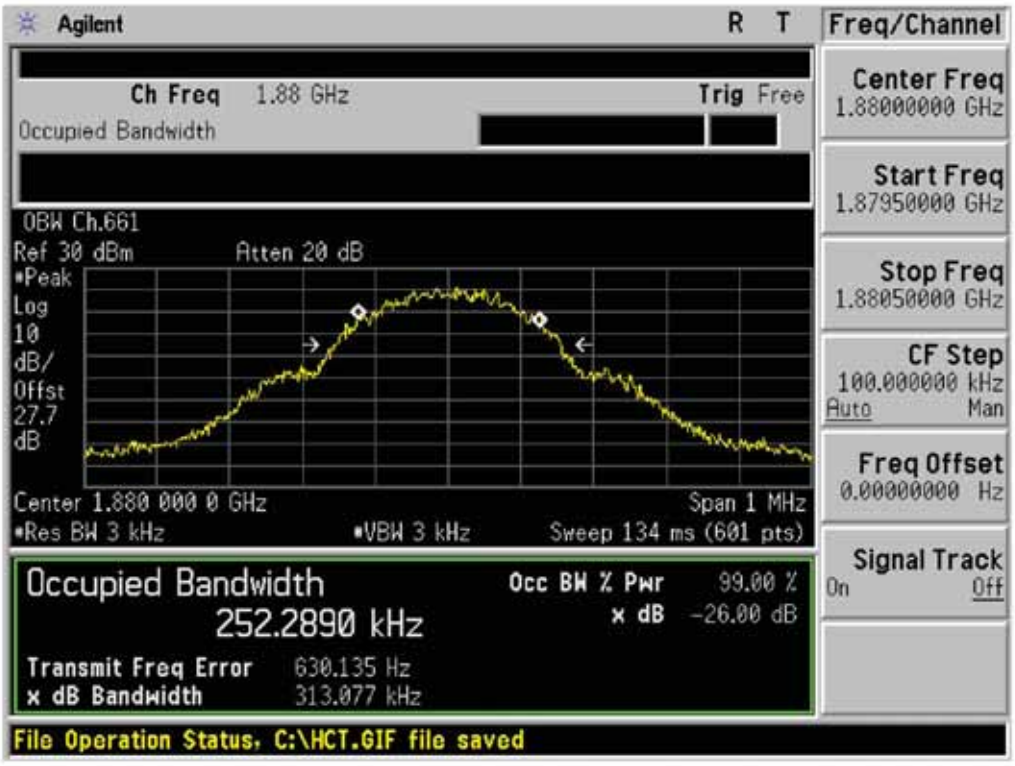
■ GSM850 MODE (128 CH.) Occupied Bandwidth

■ GSM850 MODE (190 CH.) Occupied Bandwidth

■ GSM850 MODE (251 CH.) Occupied Bandwidth

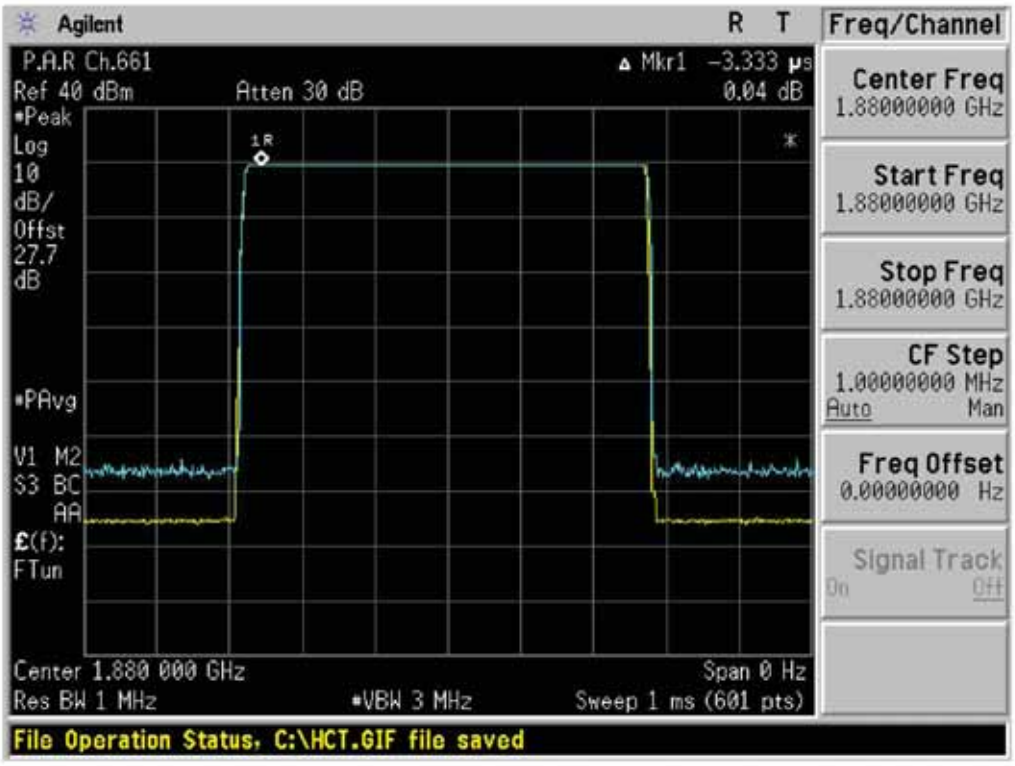
■ GSM1900 MODE (512 CH.) Occupied Bandwidth

■ GSM1900 MODE (661 CH.) Occupied Bandwidth

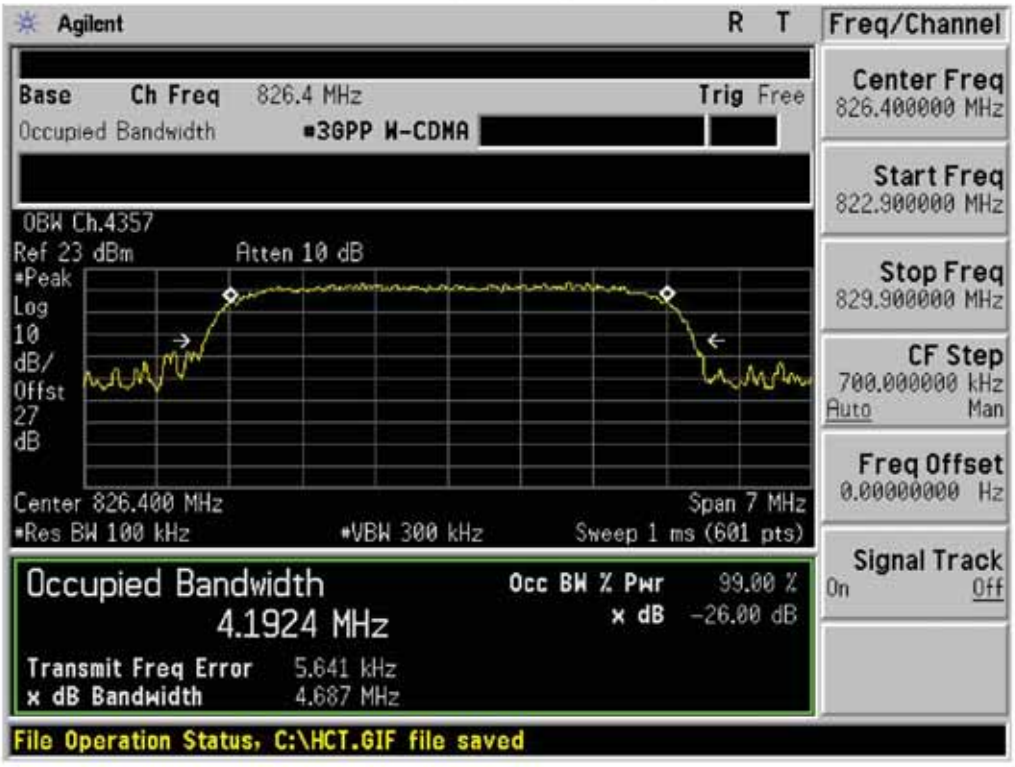


■ GSM1900 MODE (810 CH.) Occupied Bandwidth

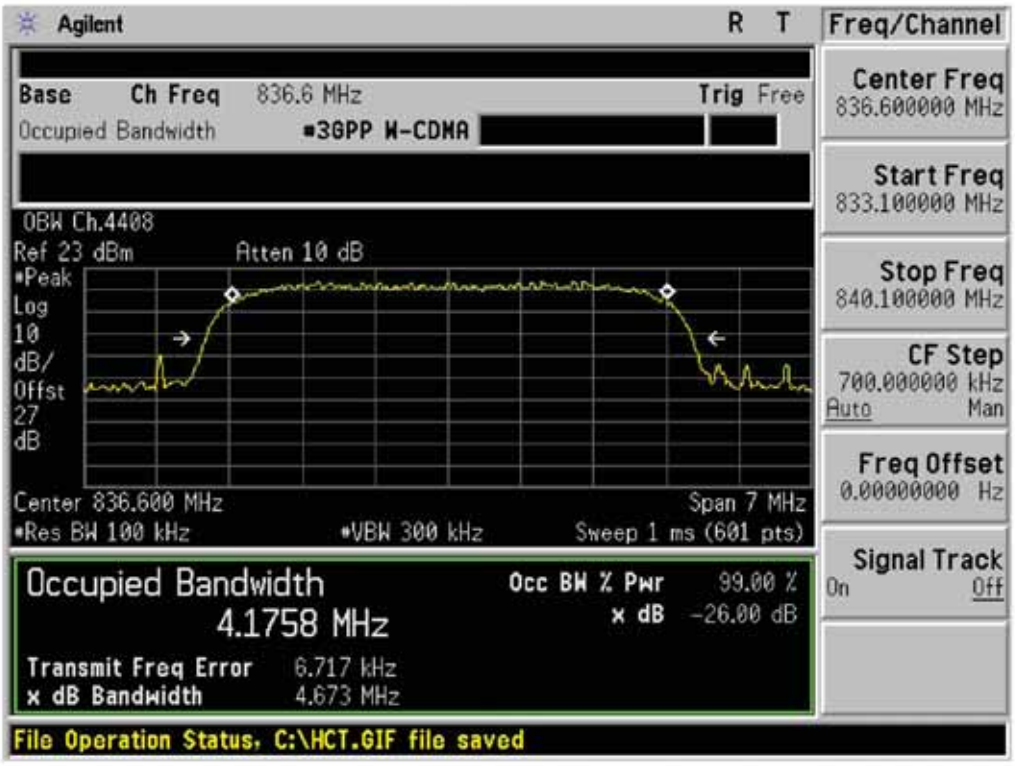
■ GSM1900 MODE (661 CH.) Peak-to-Average Ratio



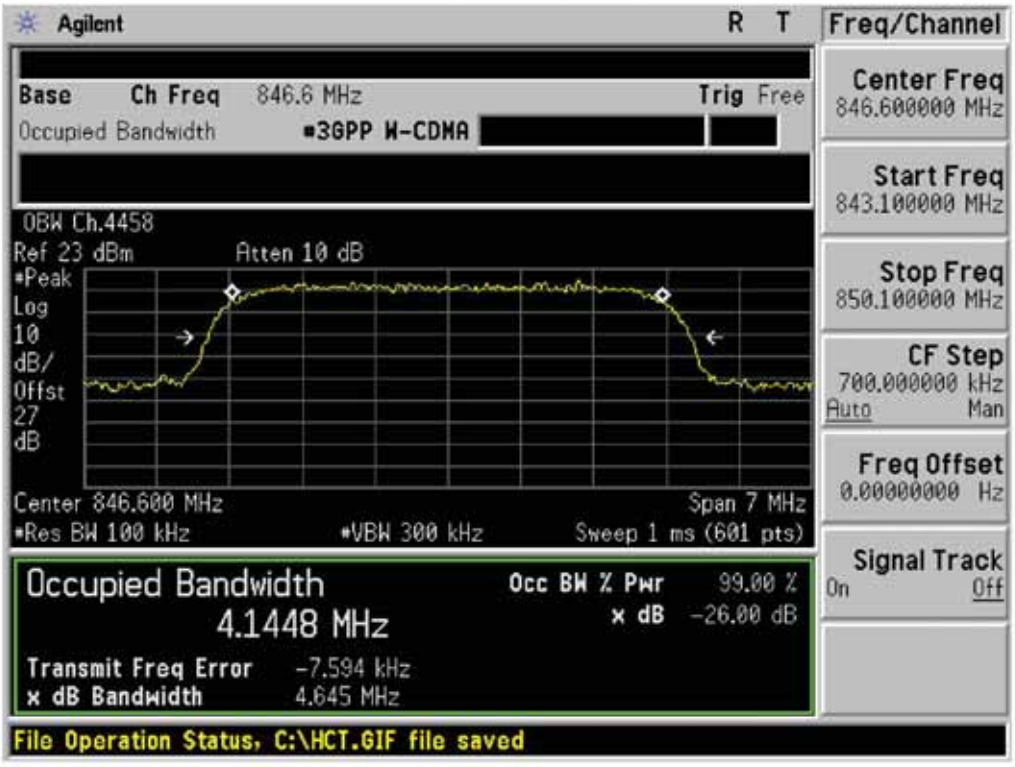
■ WCDMA850 MODE (4132 CH.) Occupied Bandwidth



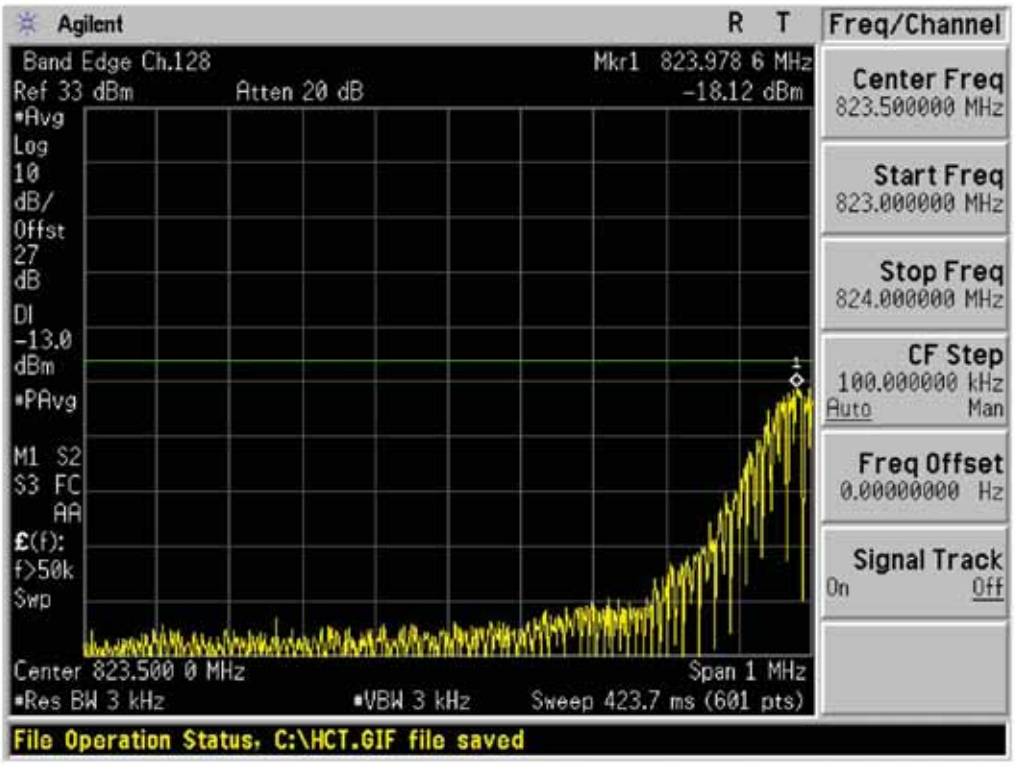
■ WCDMA850 MODE (4183 CH.) Occupied Bandwidth



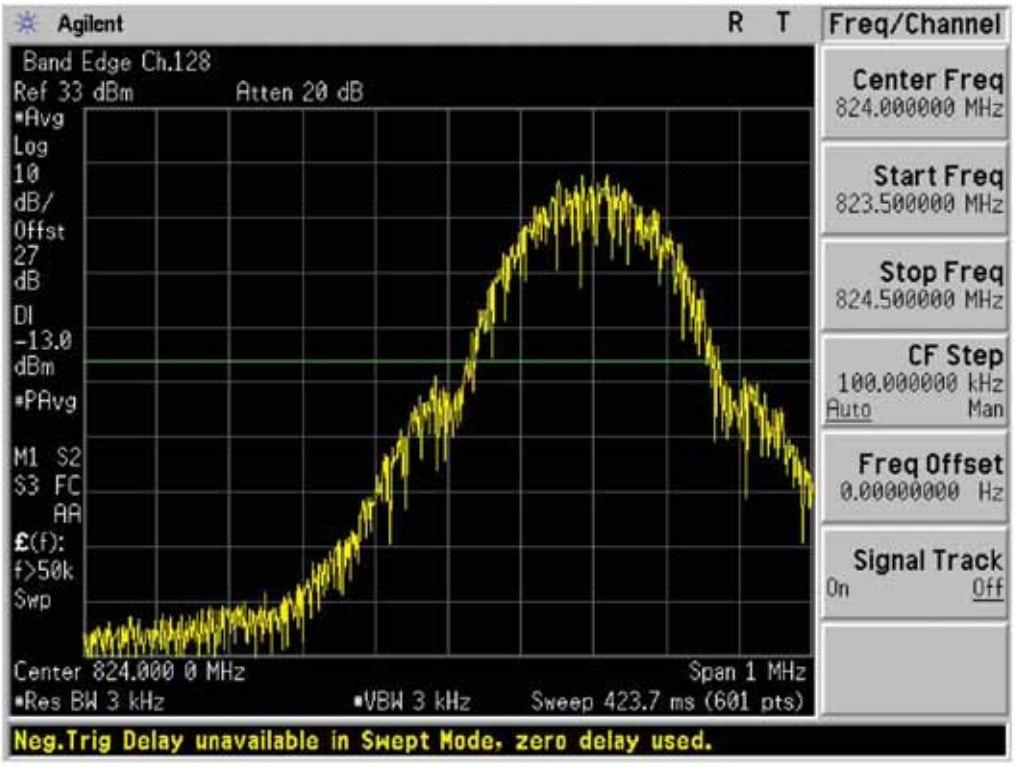
■ WCDMA850MODE (4233 CH.) Occupied Bandwidth



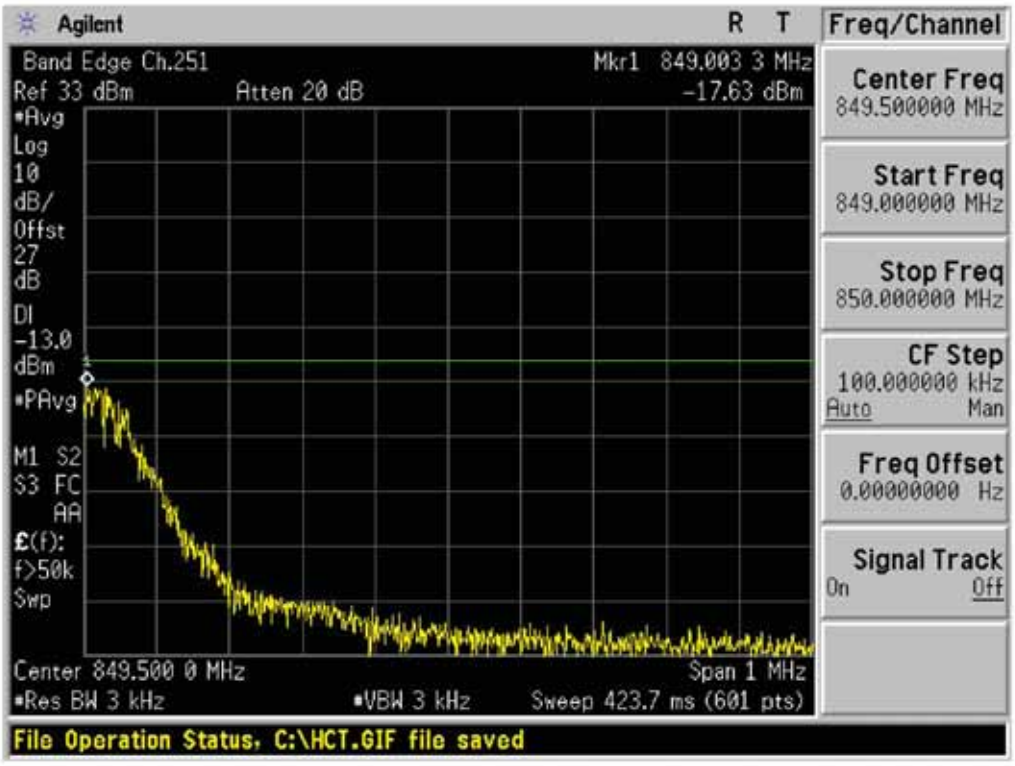
■ GSM850 MODE (128 CH.) Block Edge 1



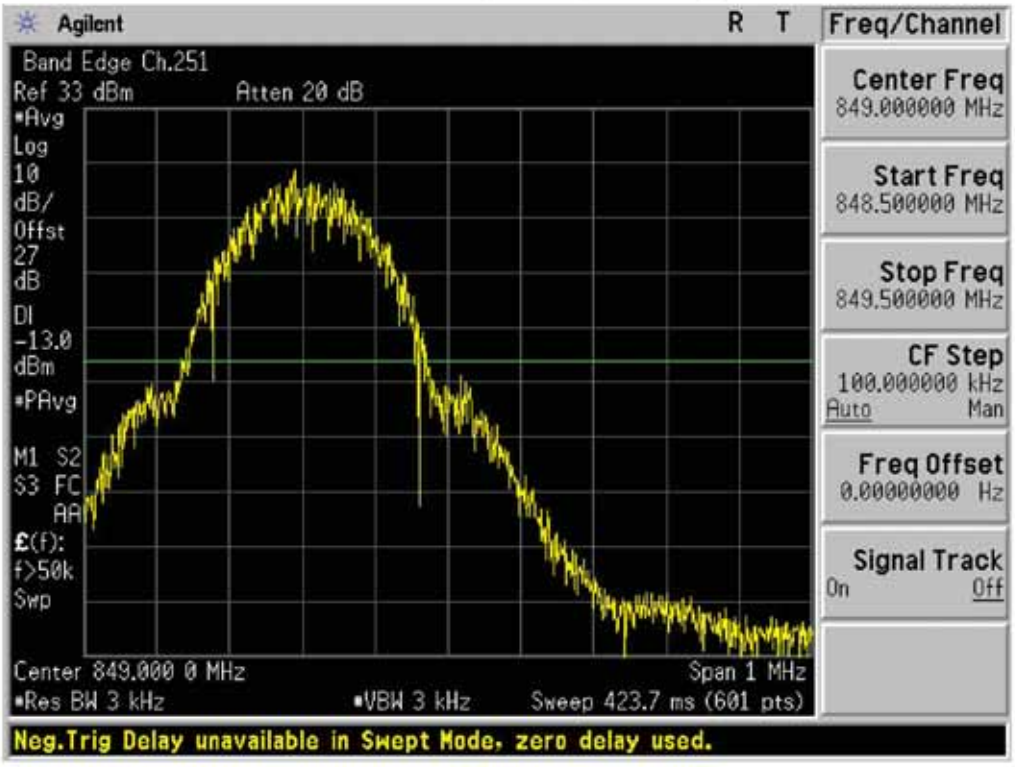
■ GSM850 MODE (128 CH.) Block Edge 2



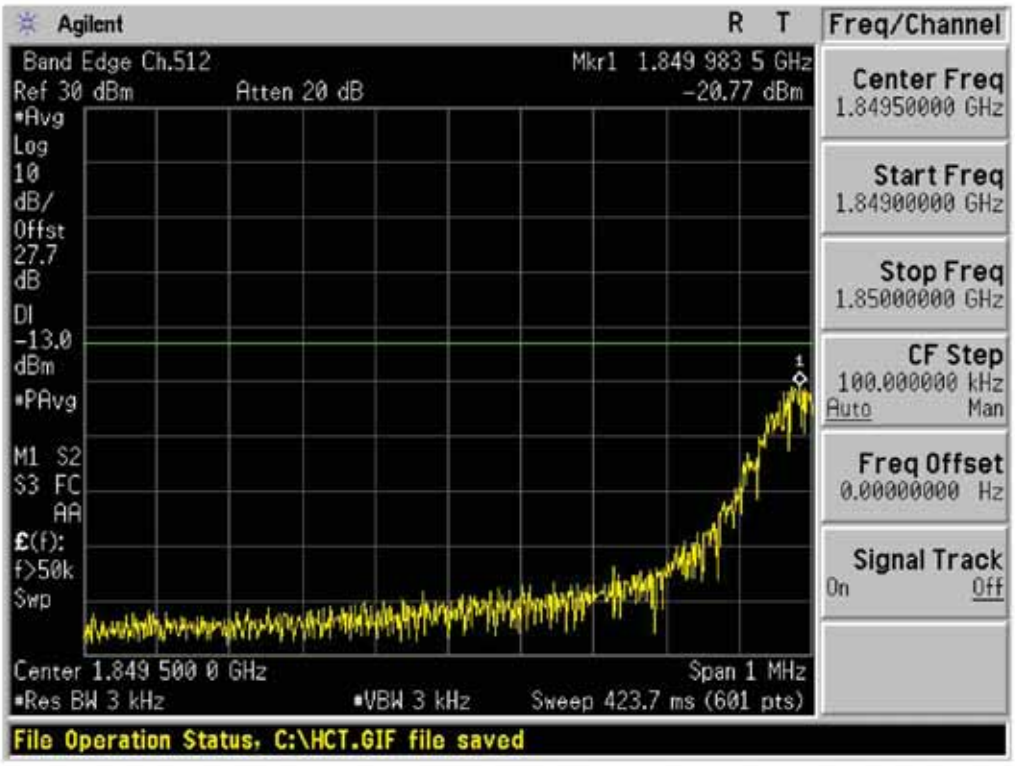
■ GSM850 MODE (251 CH.) Block Edge 1



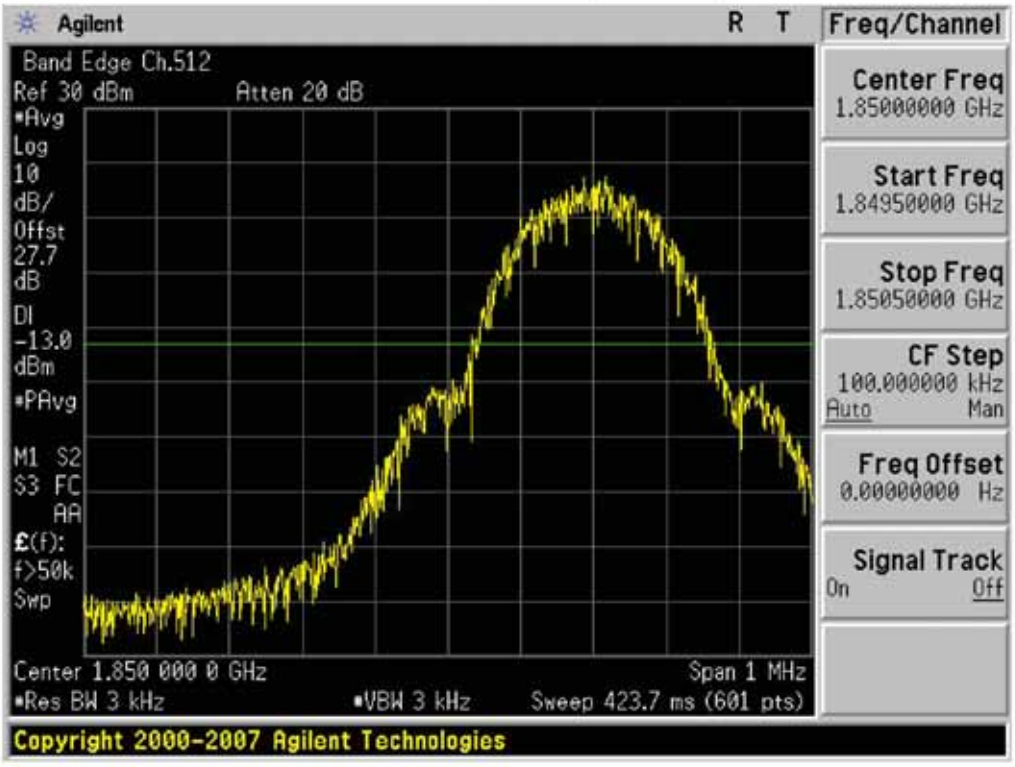
■ GSM850 MODE (251 CH.) Block Edge 2



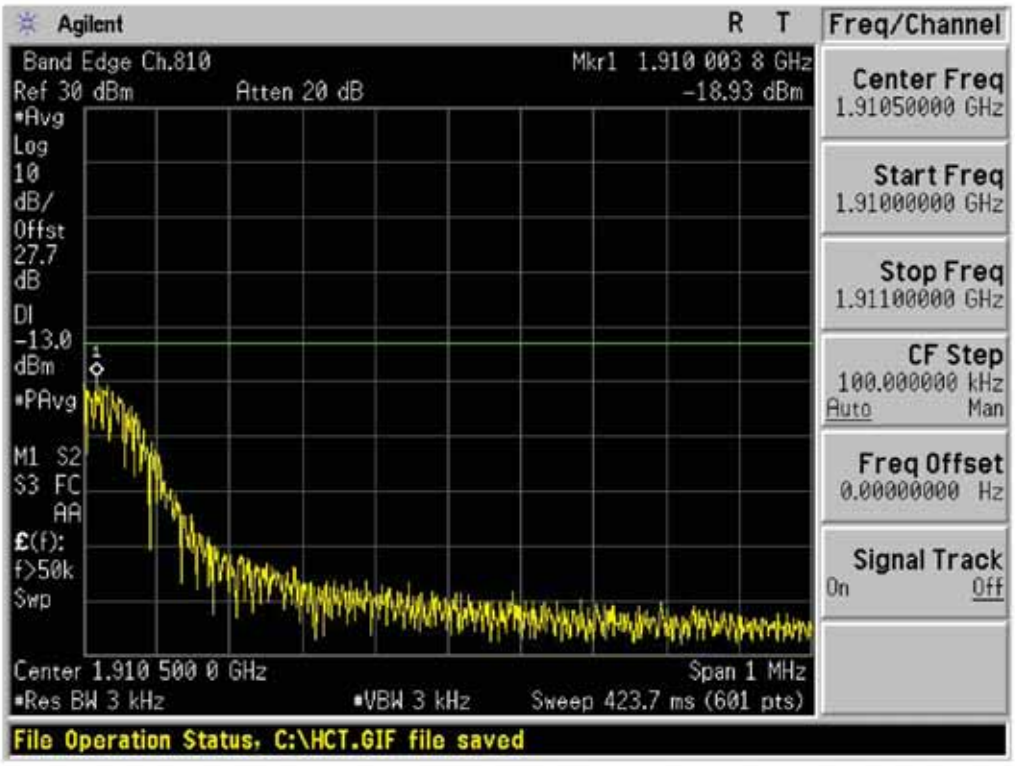
■ GSM1900 MODE (512 CH.) Block Edge 1



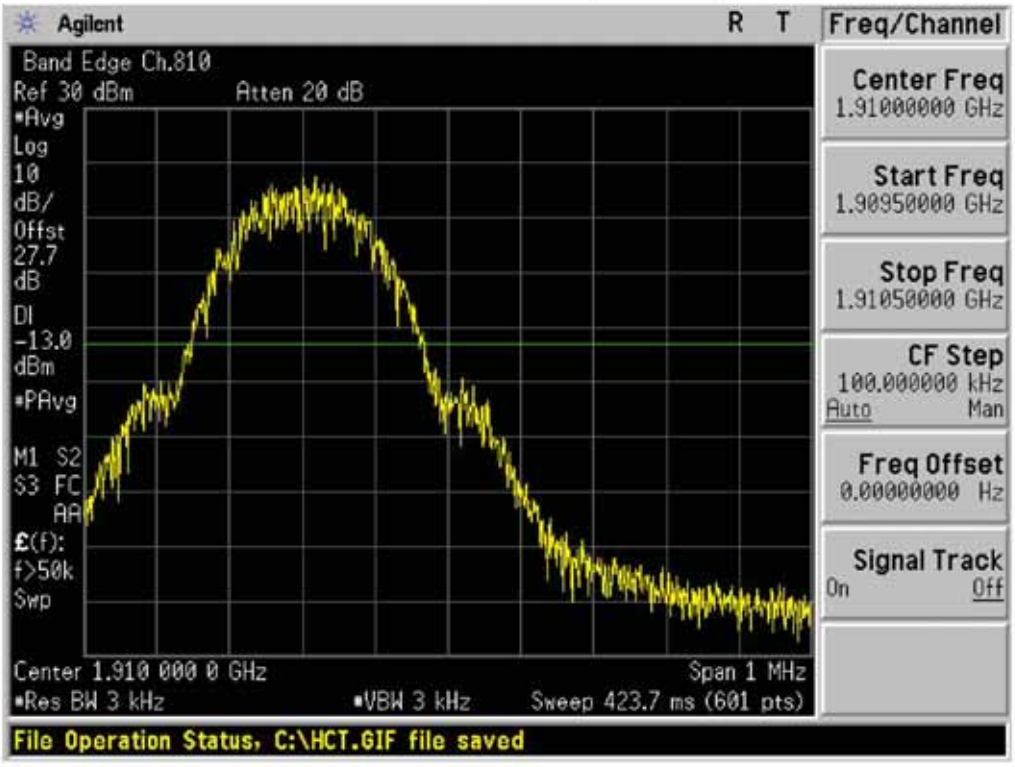
■ GSM1900 MODE (512 CH.) Block Edge 2



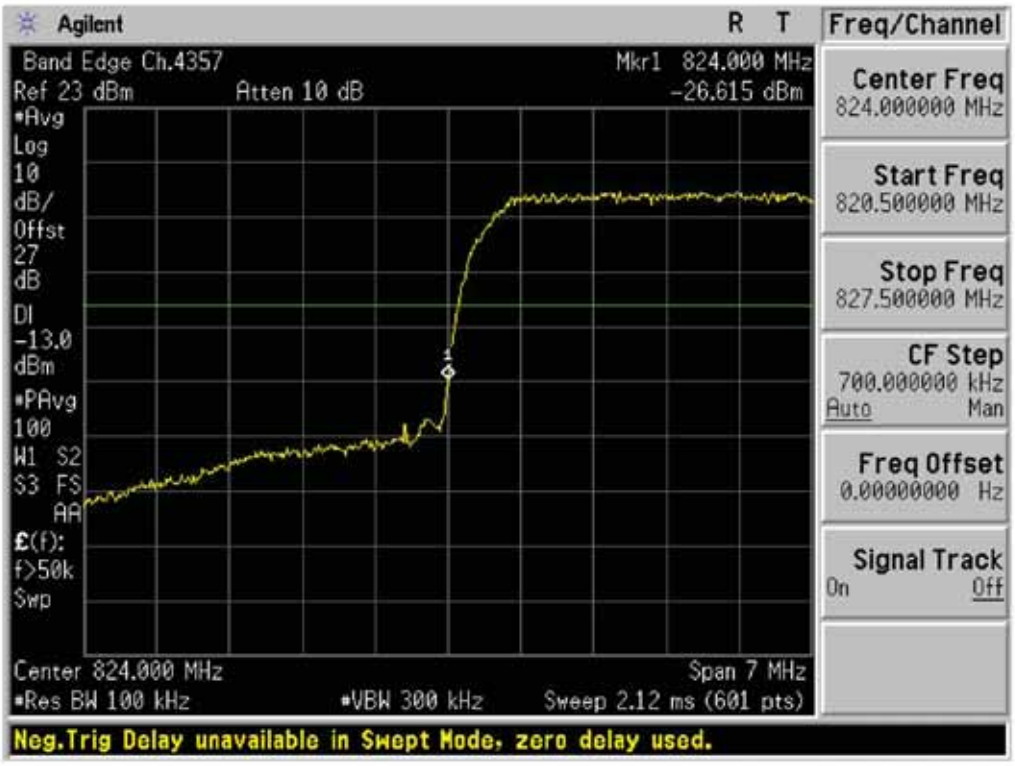
■ GSM1900 MODE (810 CH.) Block Edge 1



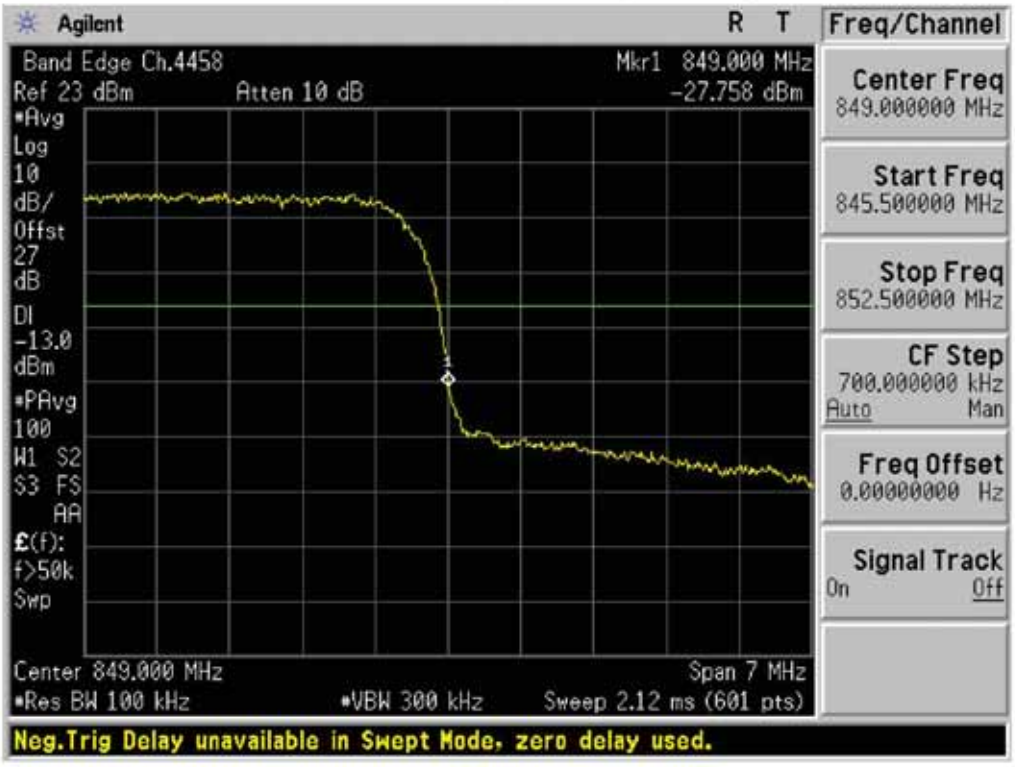
■ GSM1900 MODE (810 CH.) Block Edge 2



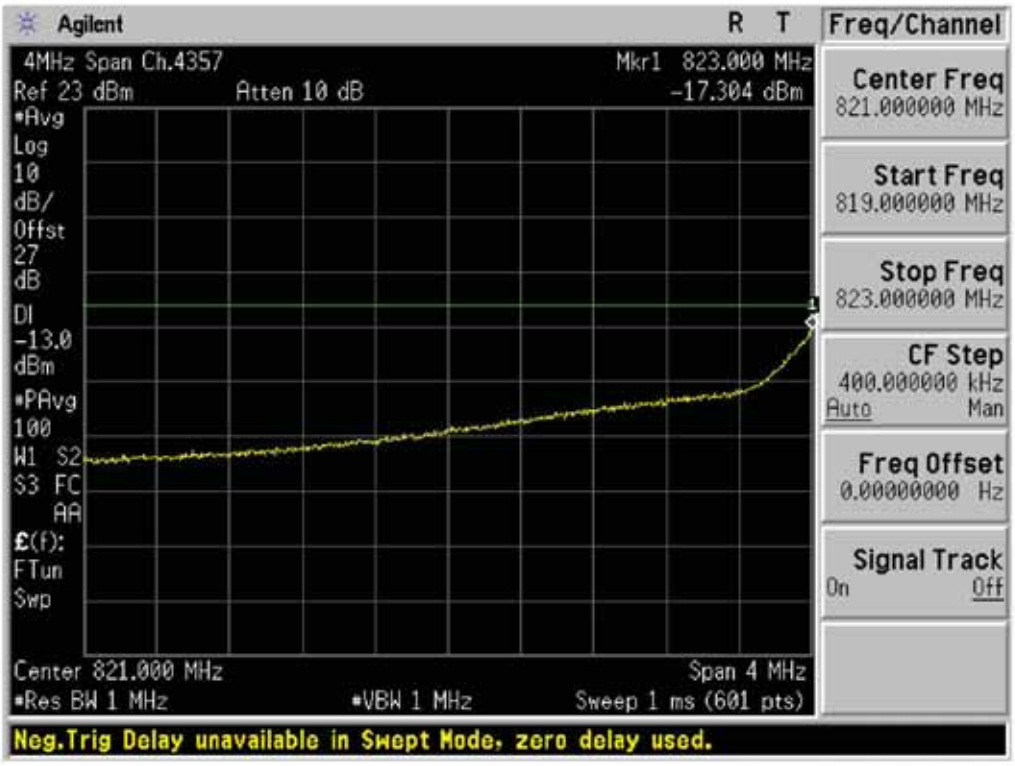
■ WCDMA850 MODE (4132 CH.) Block Edge



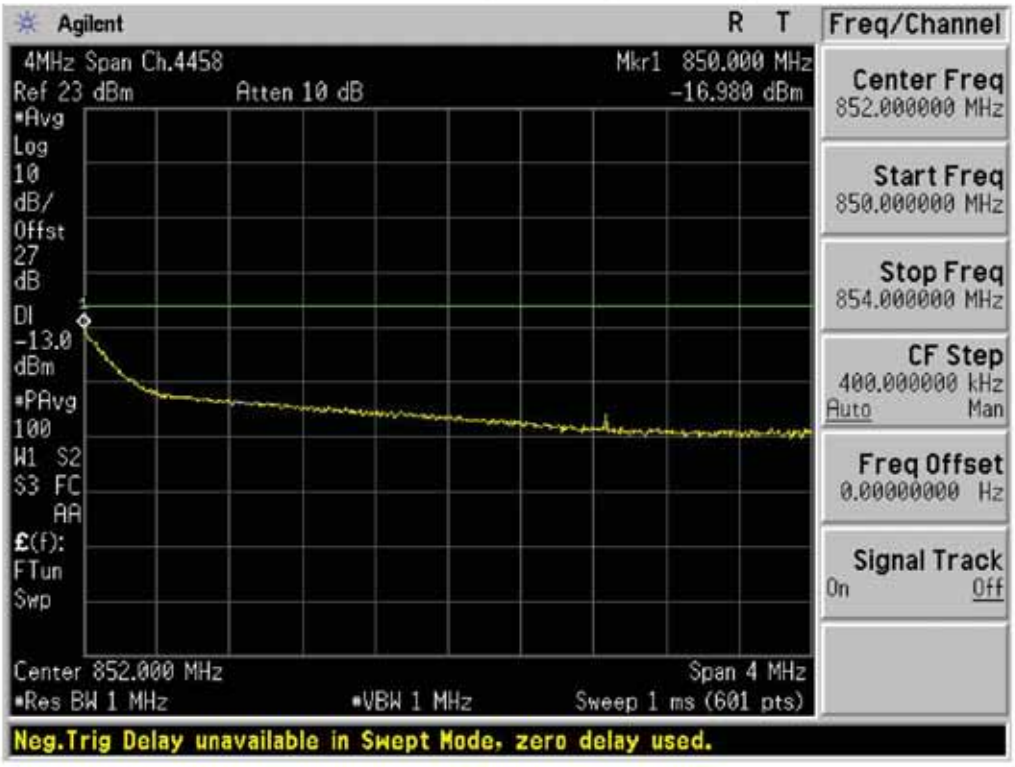
■ WCDMA850MODE (4233 CH.) Block Edge



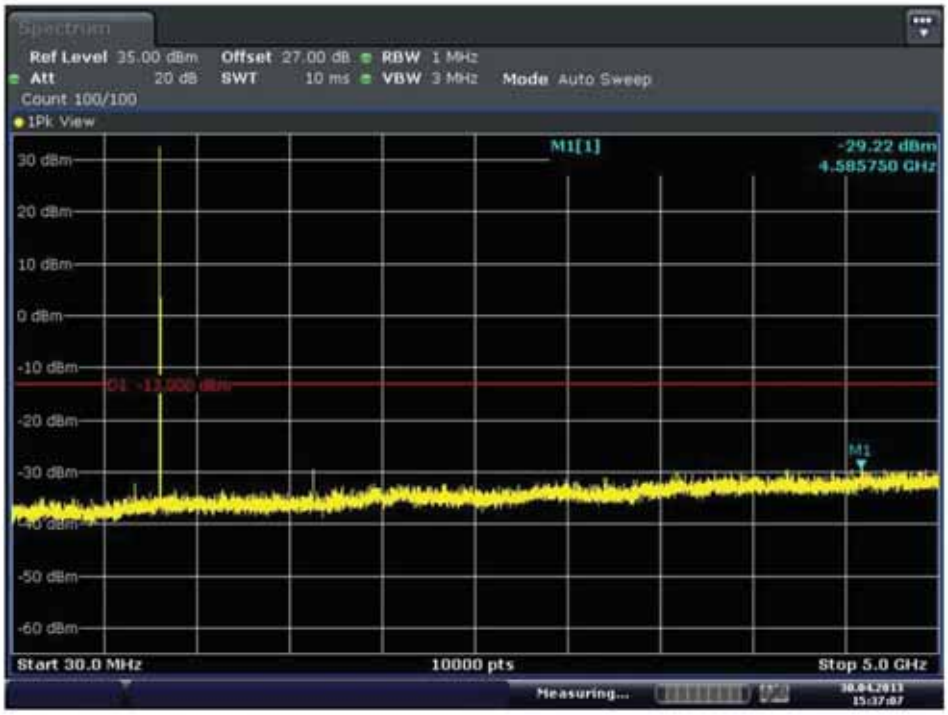
■ WCDMA850 MODE (4132 CH.) – 4 MHz Span



■ WCDMA850MODE (4233 CH.) – 4 MHz Span

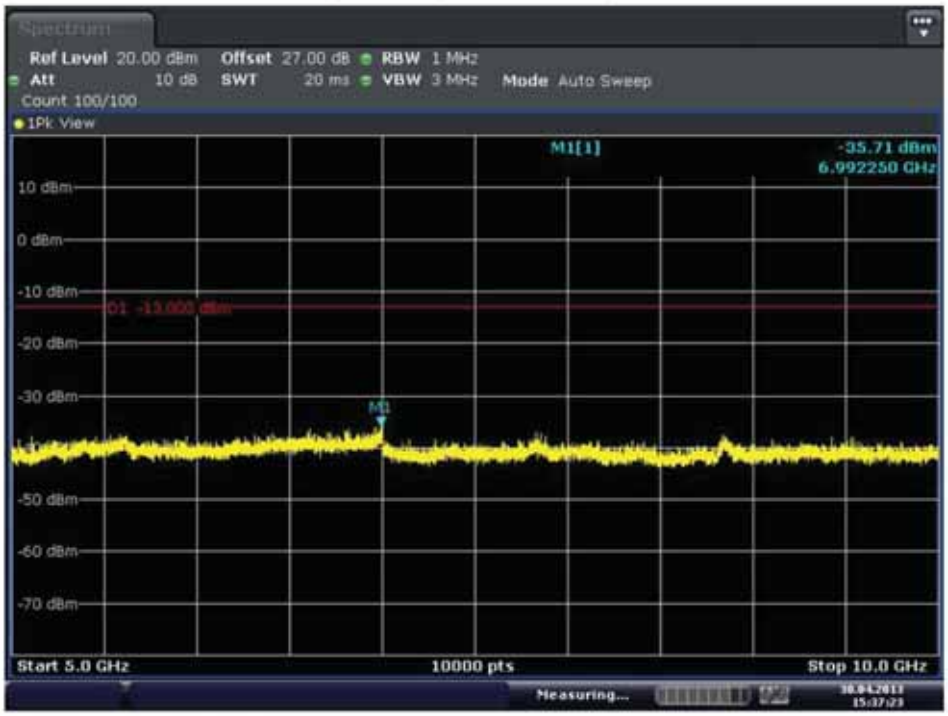


■ GSM850 MODE (128 CH.) Conducted Spurious Emissions1



Date: 30.APR.2013 15:37:07

■ GSM850 MODE (128 CH.) Conducted Spurious Emissions2



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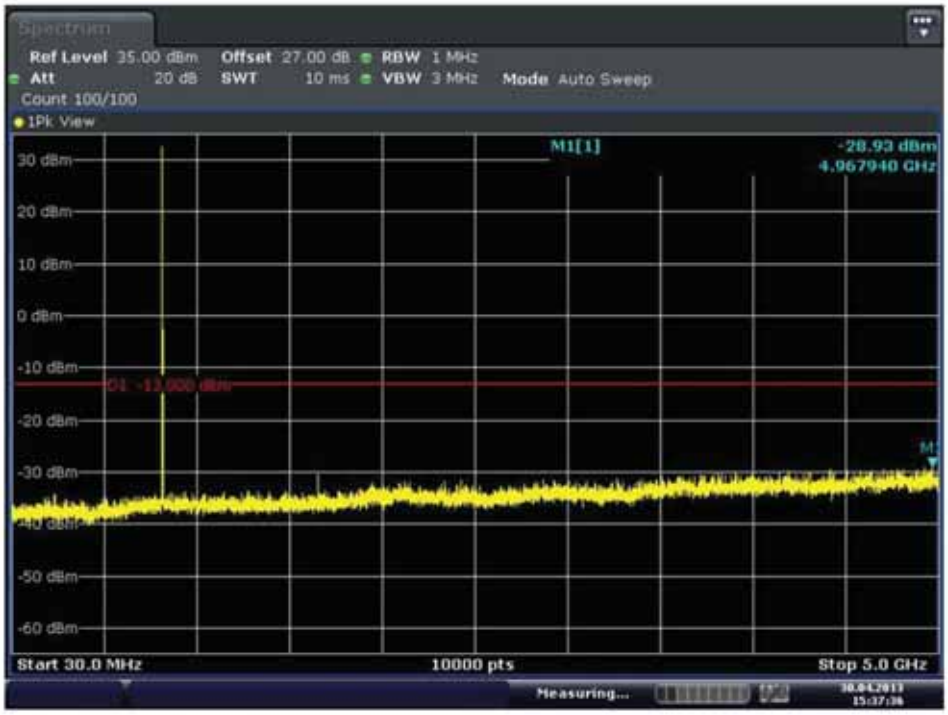
■ GSM850 MODE (190 CH.) Conducted Spurious Emissions1



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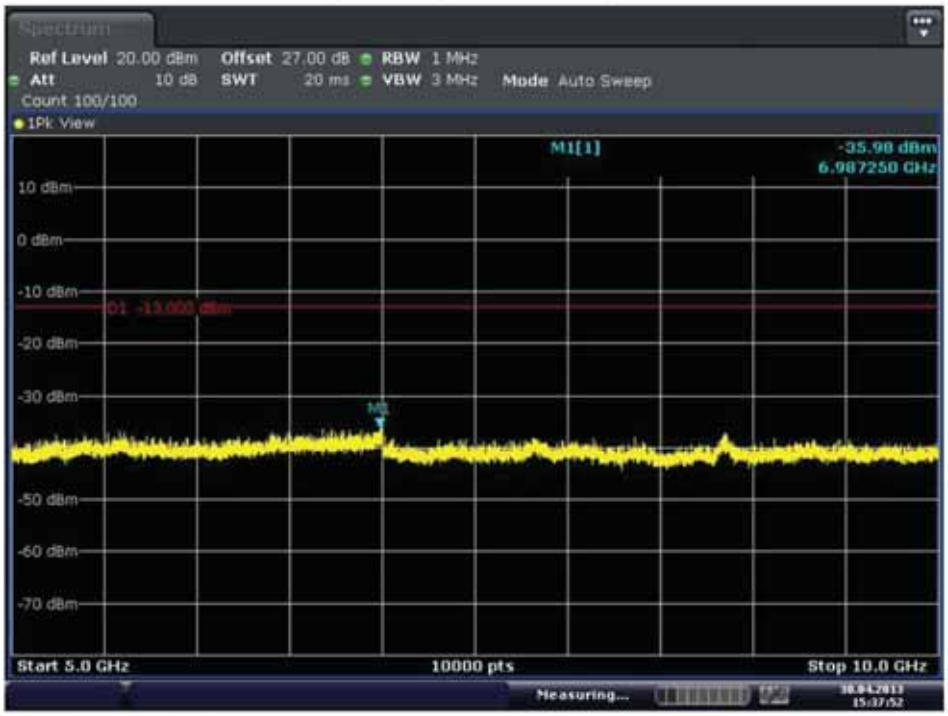
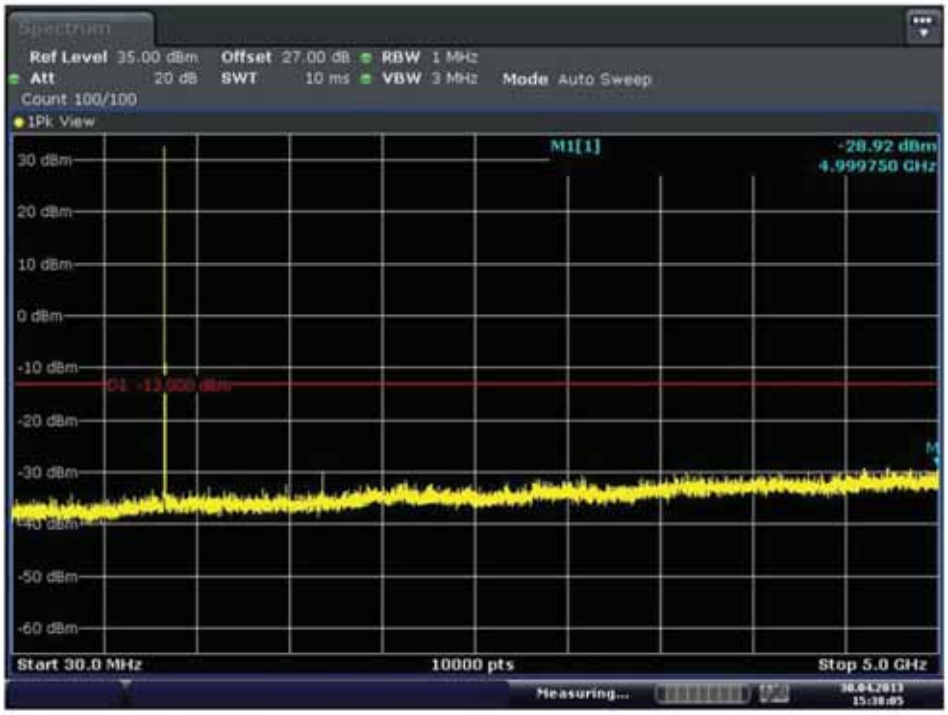
■ GSM850 MODE (190 CH.) Conducted Spurious Emissions2



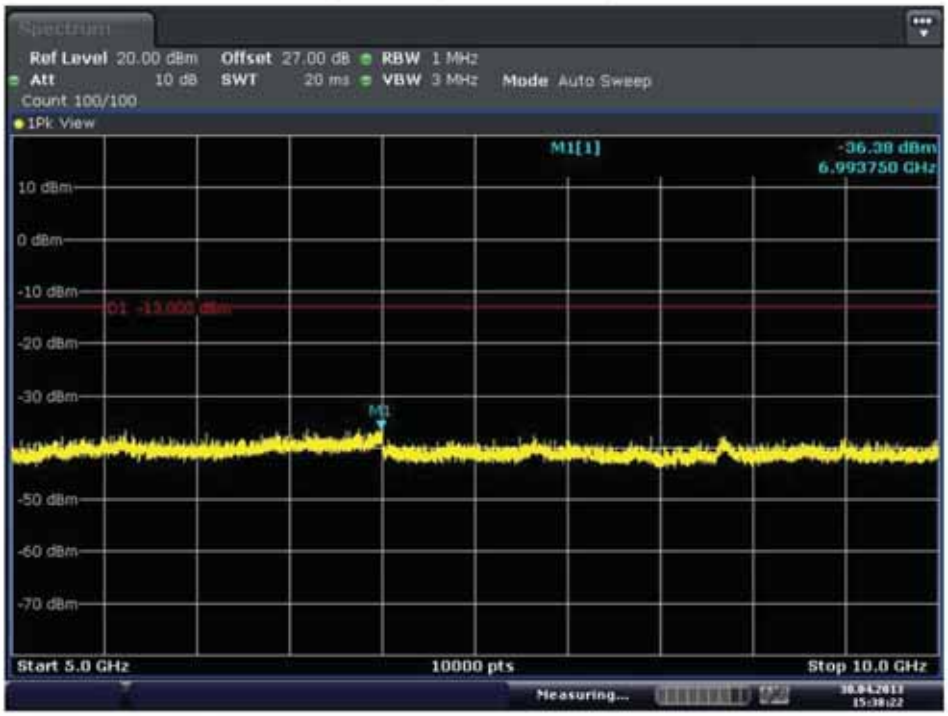
Date: 30.APR.2013 15:37:53

■ GSM850 MODE (251 CH.) Conducted Spurious Emissions1



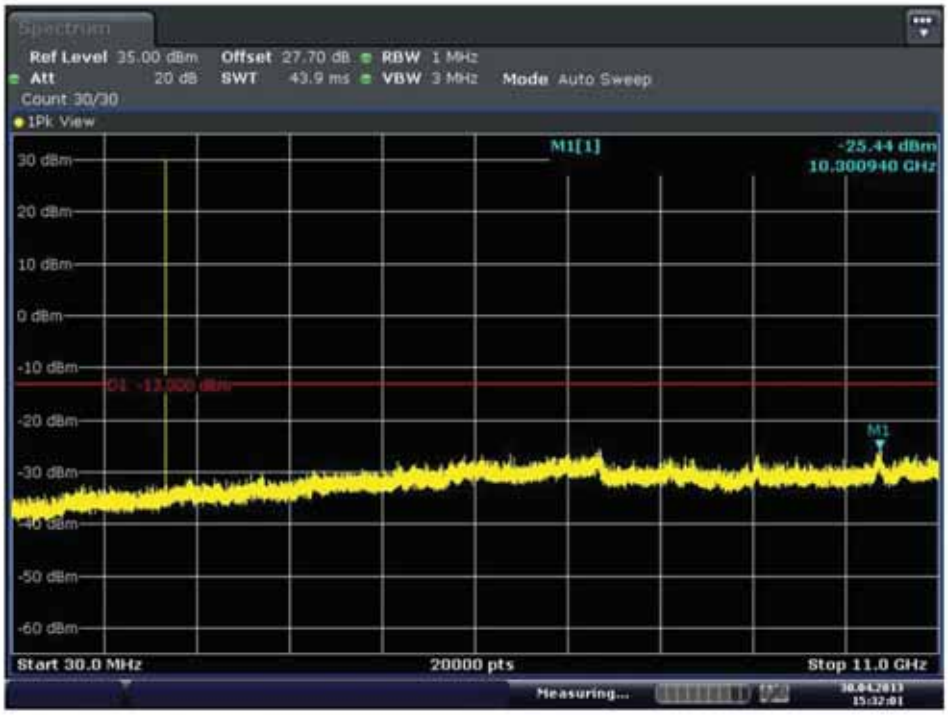
Date: 30.APR.2013 15:38:06

■ GSM850 MODE (251 CH.) Conducted Spurious Emissions2



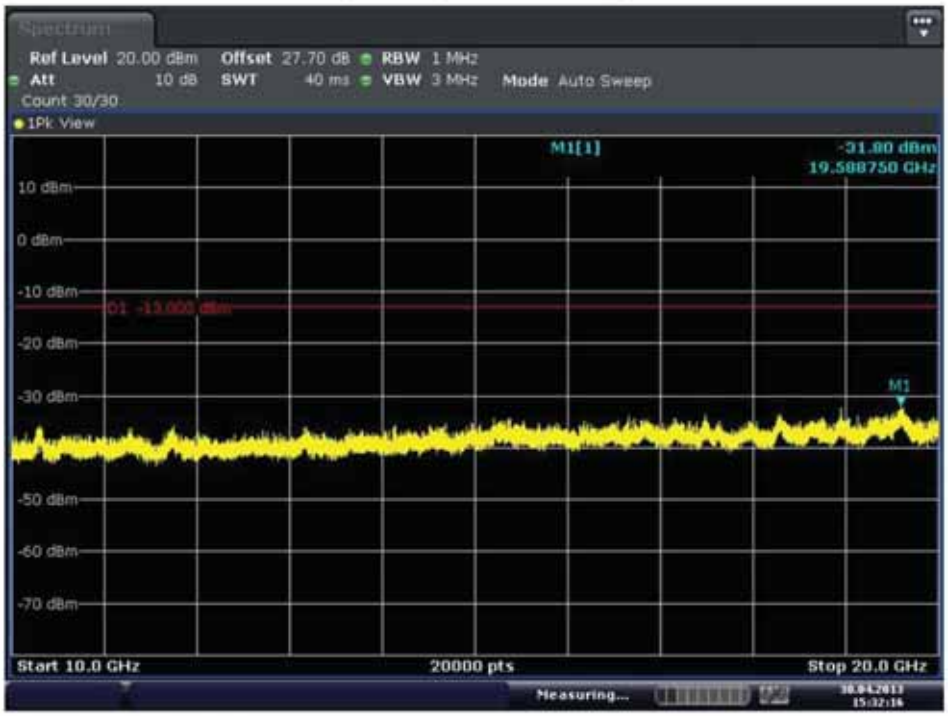
Date: 30.APR.2013 15:38:22

■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions1



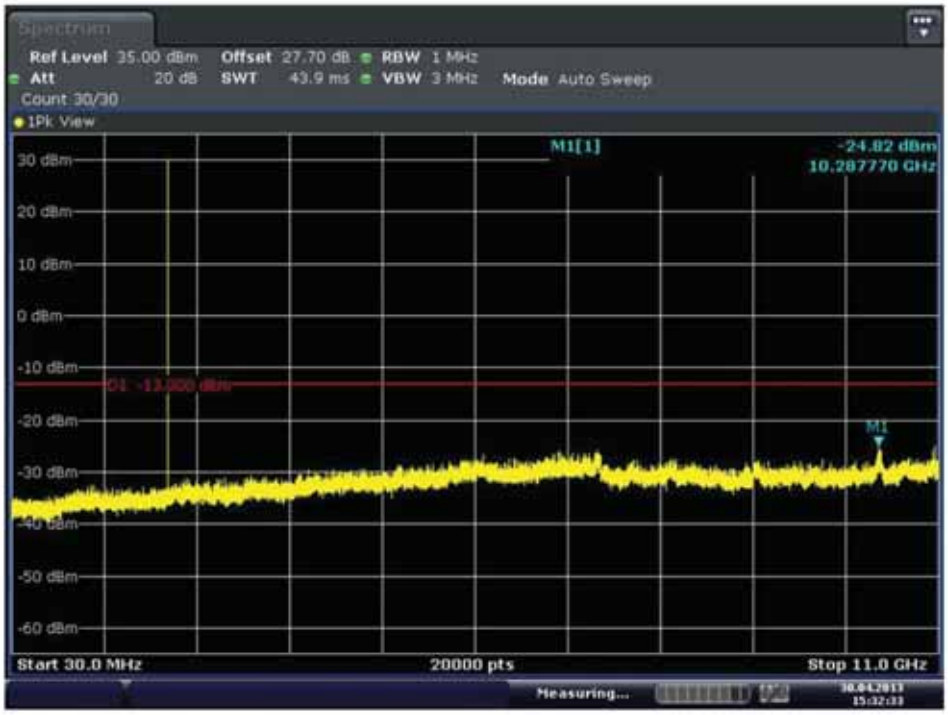
Date: 30.APR.2013 15:32:01

■ GSM1900 MODE (512 CH.) Conducted Spurious Emissions2



Date: 30.APR.2013 15:32:17

■ GSM1900 MODE (661 CH) Conducted Spurious Emissions1

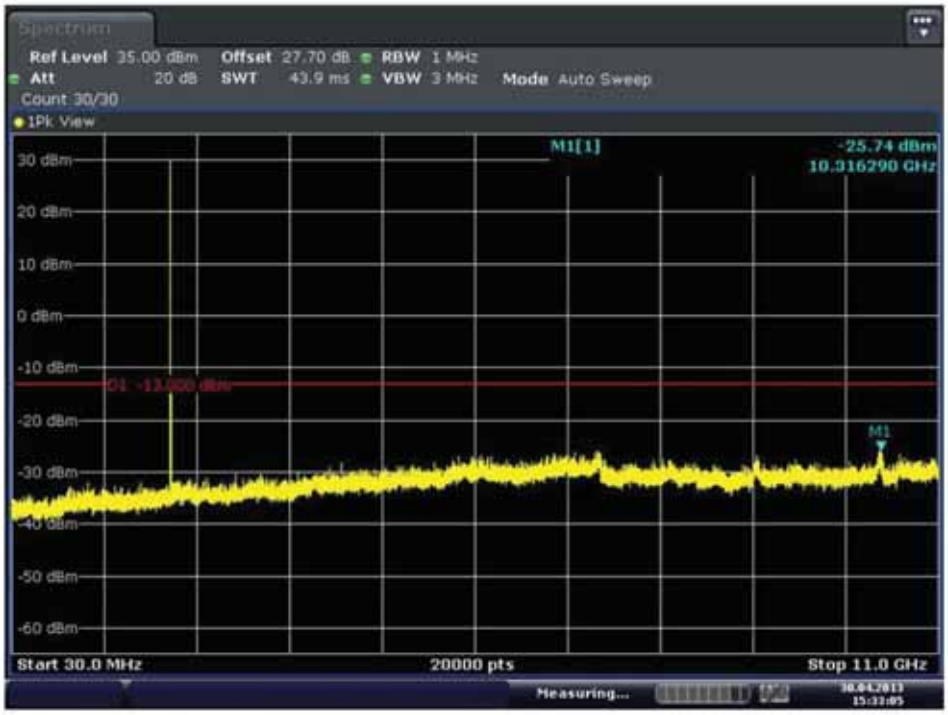


Date: 30.APR.2013 15:32:34

■ GSM1900 MODE (661 CH.) Conducted Spurious Emissions2

Date: 30.APR.2013 15:32:49

■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions1

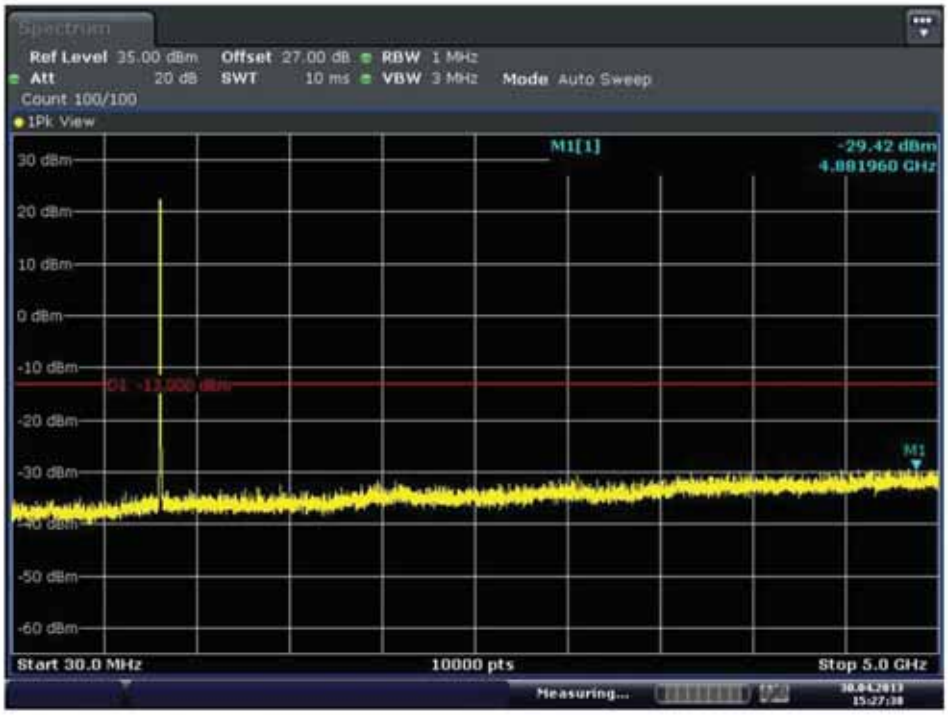


Date: 30.APR.2013 15:33:05

■ GSM1900 MODE (810 CH.) Conducted Spurious Emissions2

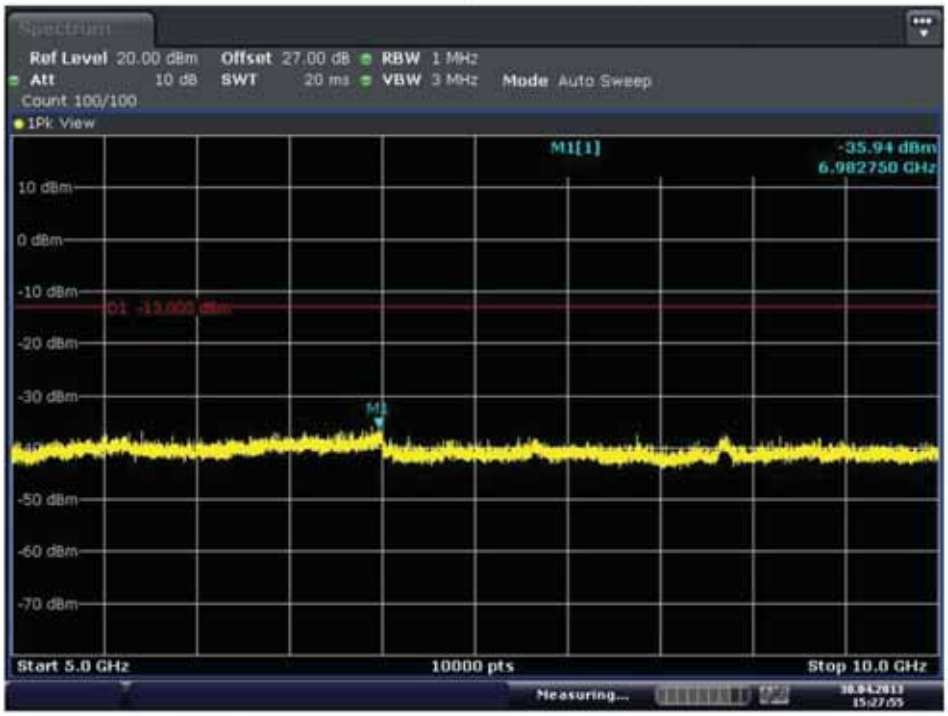
Date: 30.APR.2013 15:33:20

■ WCDMA850 MODE (4132 CH.) Conducted Spurious Emissions1



Date: 30.APR.2013 15:27:39

■ WCDMA850 MODE (4132 CH.) Conducted Spurious Emissions2



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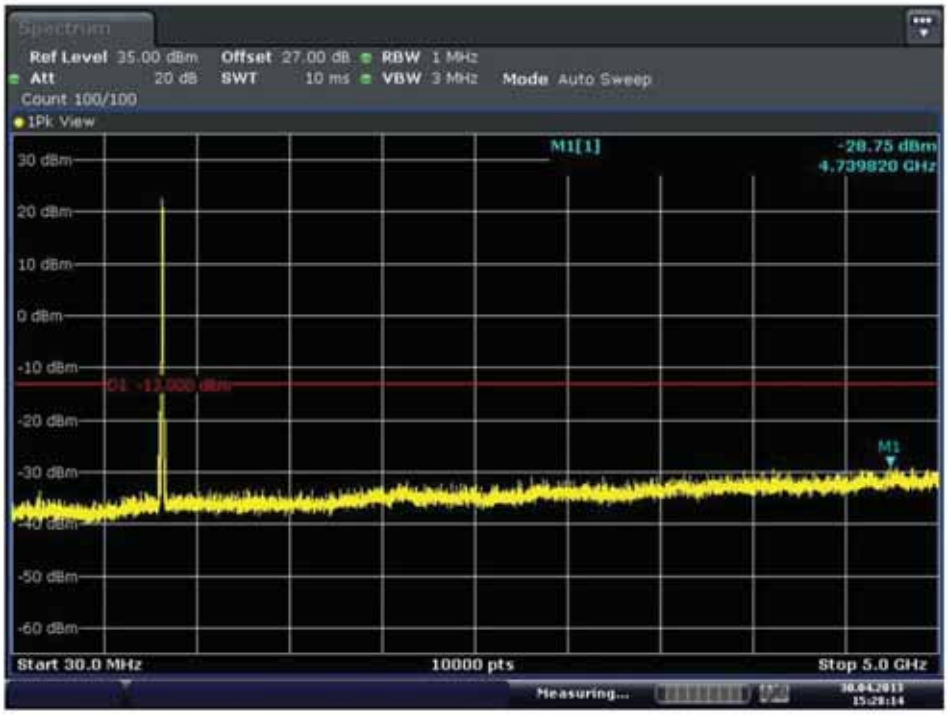
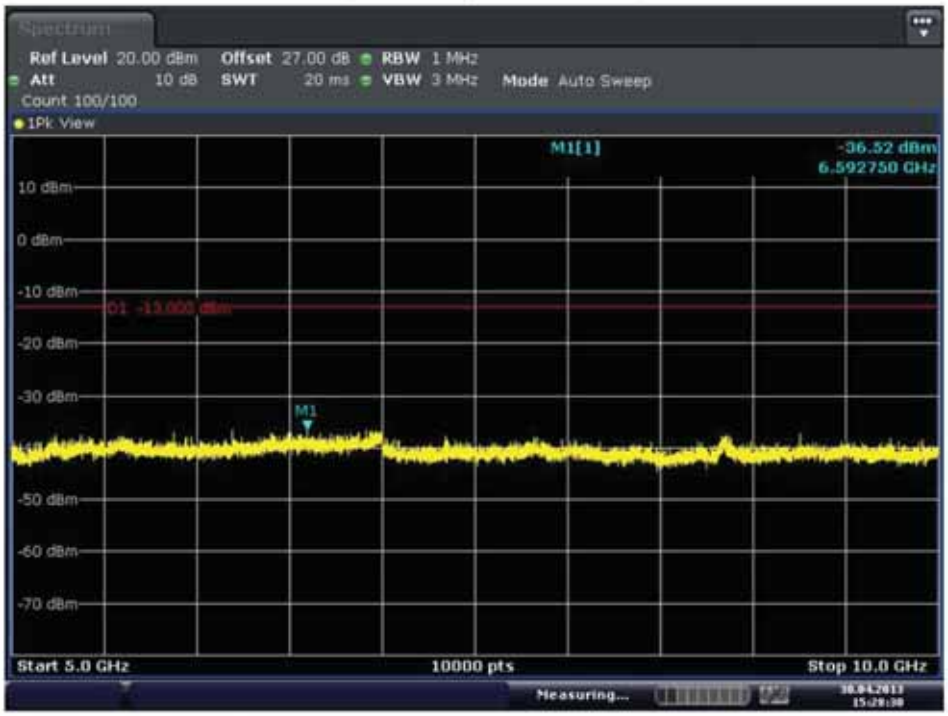
■ WCDMA850 MODE (4183 CH.) Conducted Spurious Emissions1



Date: 30.APR.2013 15:28:14

■ WCDMA850 MODE (4183 CH.) Conducted Spurious Emissions2



Date: 30.APR.2013 15:28:30