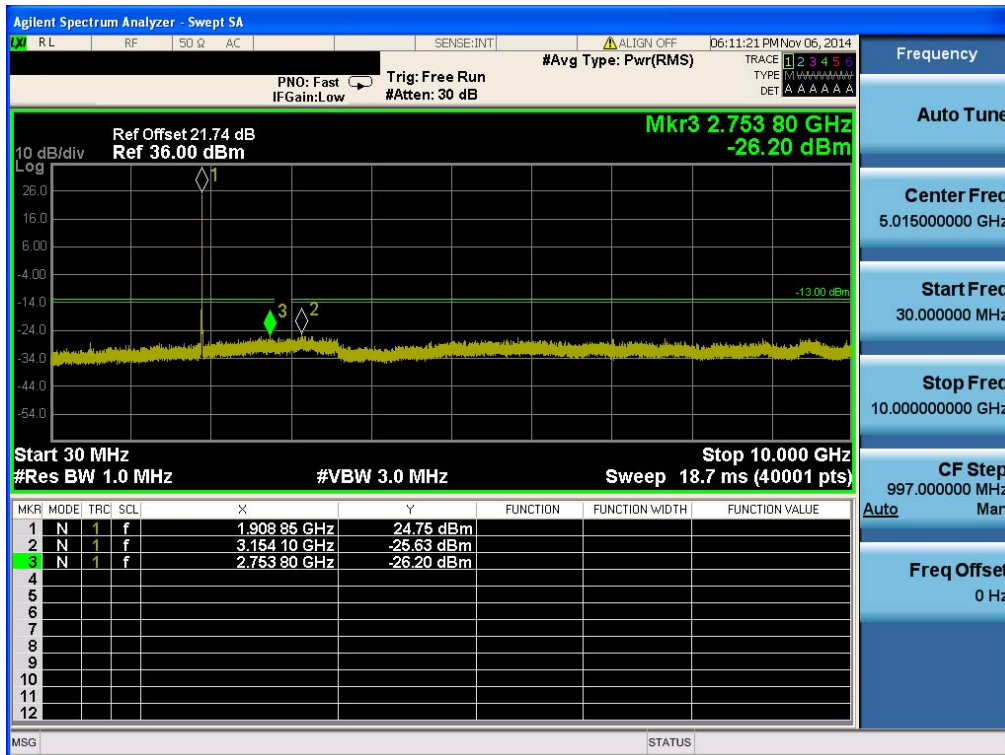
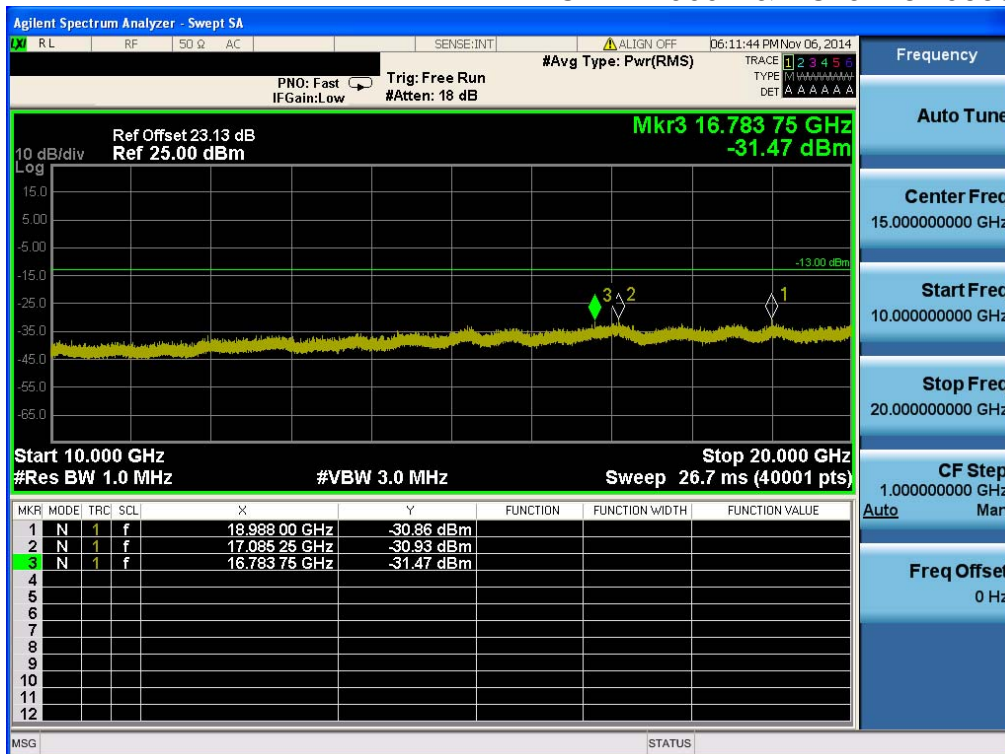


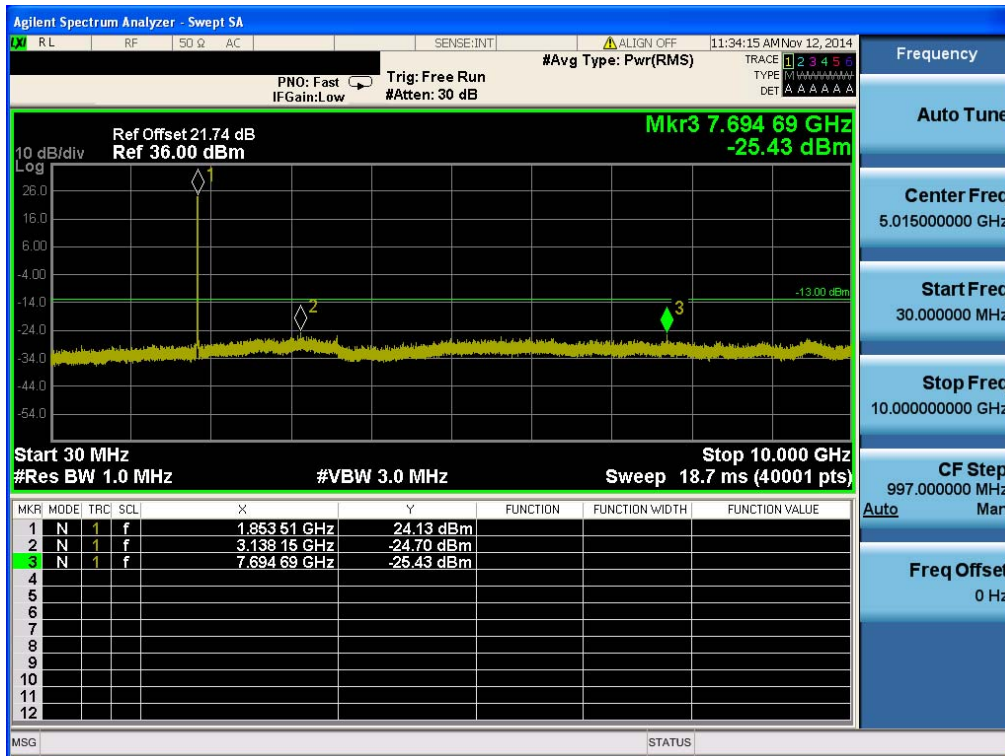
WCDMA1900 & Channel: 9538



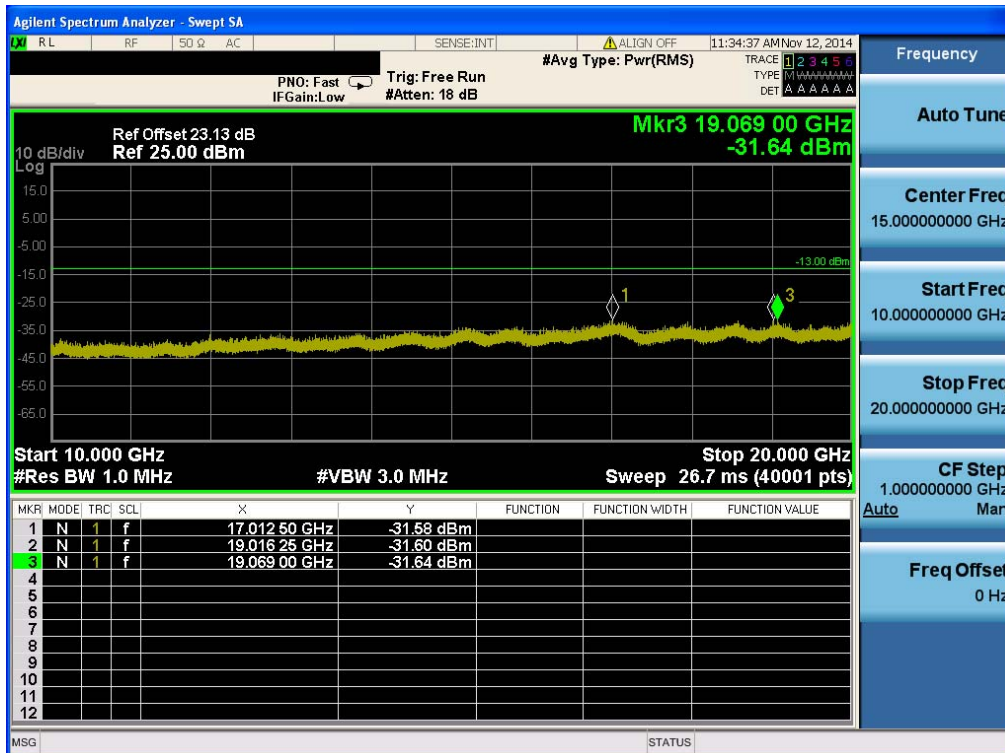
WCDMA1900 & Channel: 9538



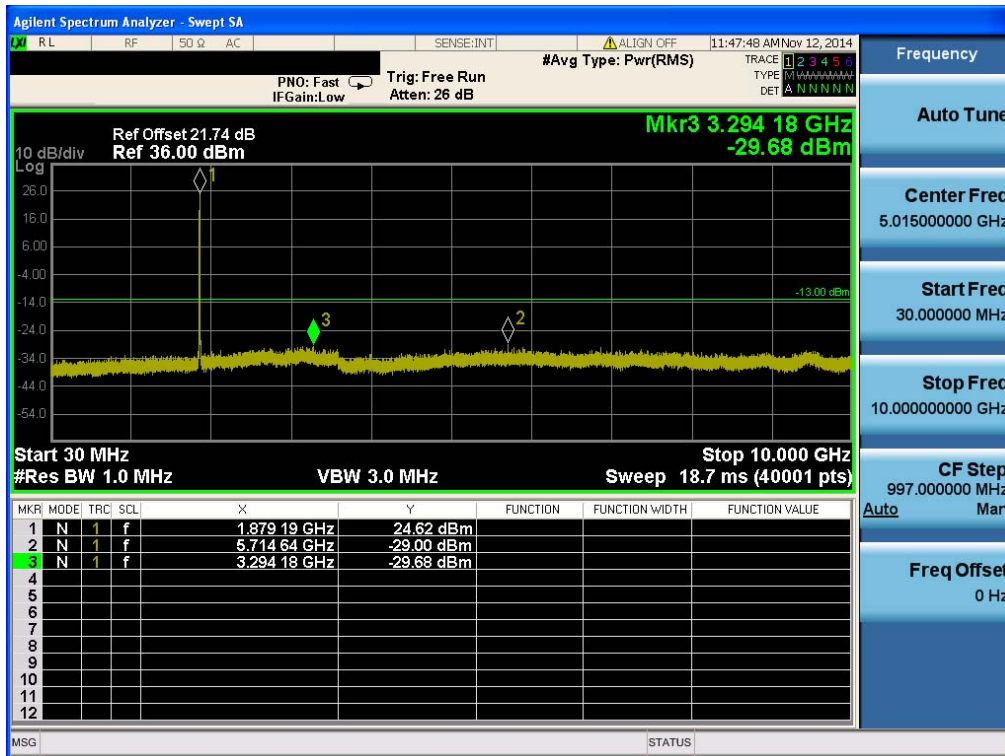
HSUPA1900 & Channel: 9262



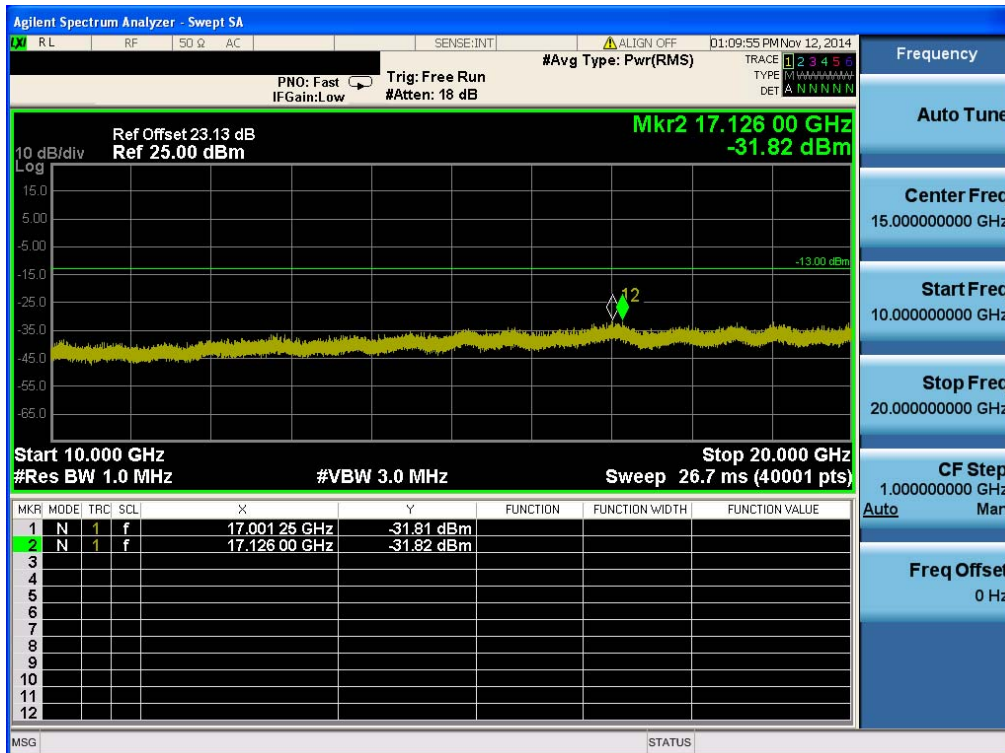
HSUPA 1900 & Channel: 9262



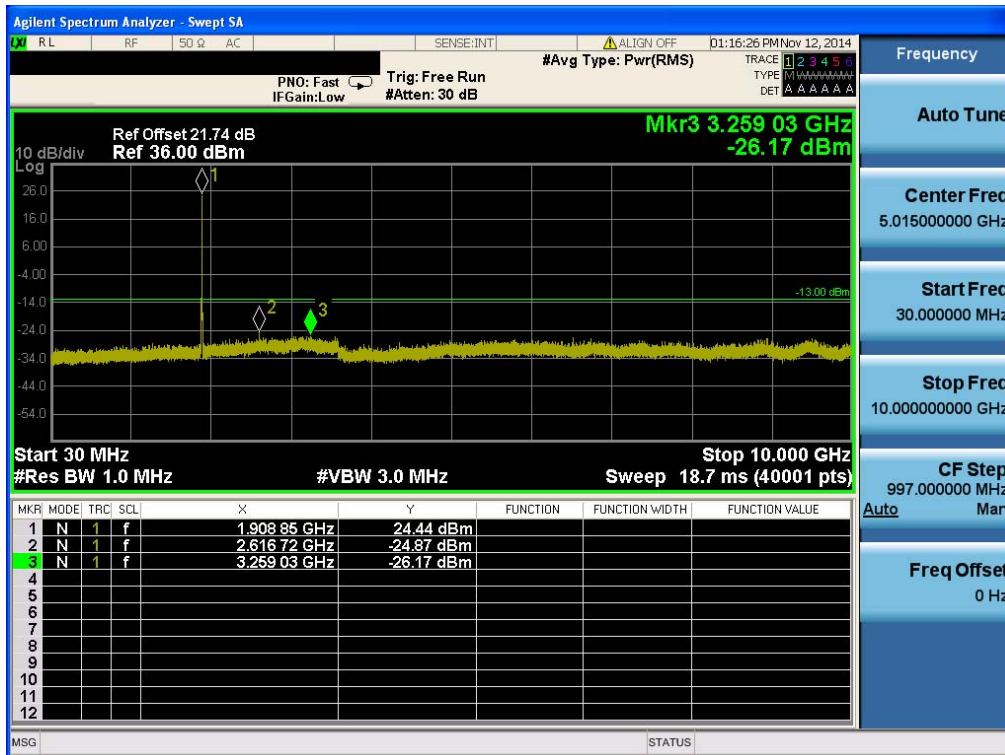
HSUPA1900 & Channel: 9400



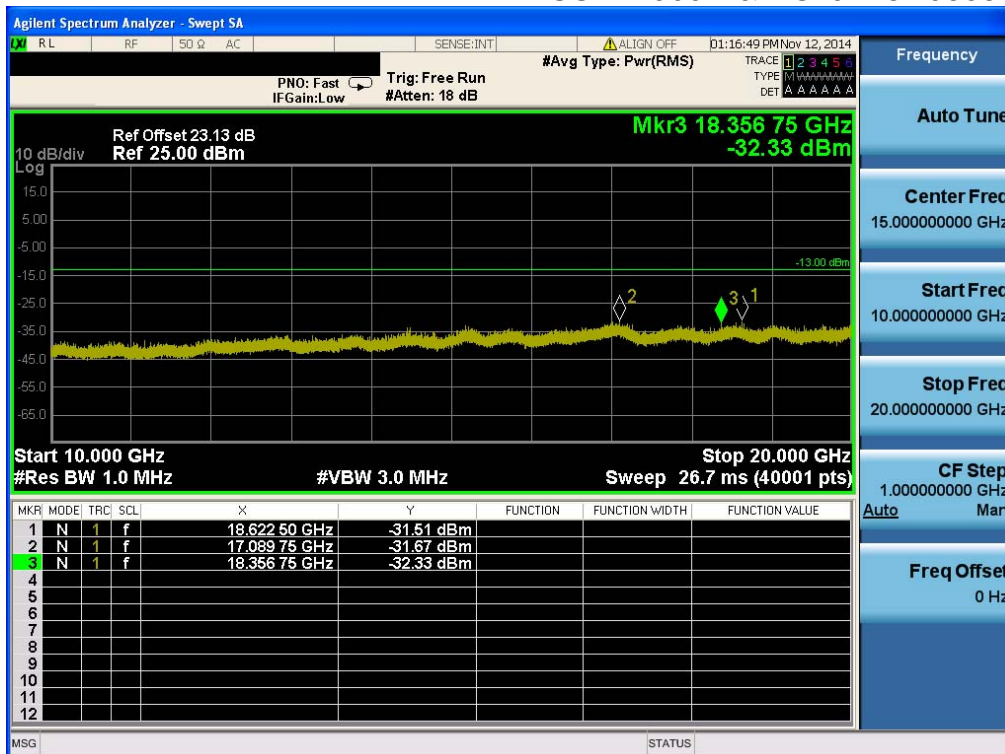
HSUPA1900 & Channel: 9400



HSUPA1900 & Channel: 9538

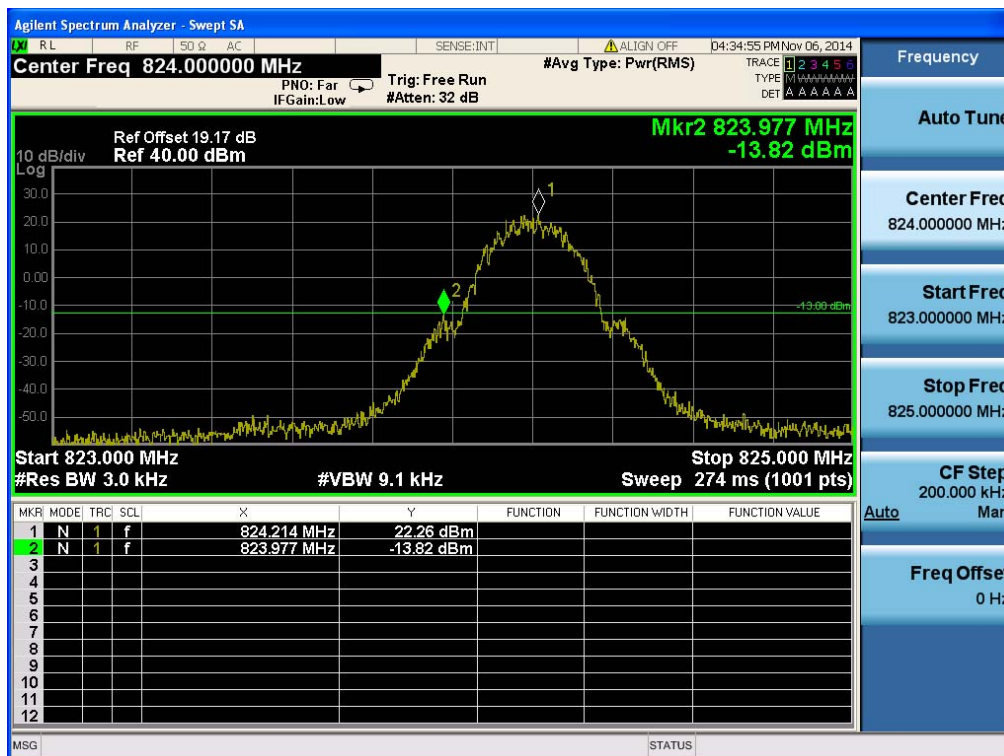


HSUPA1900 & Channel: 9538

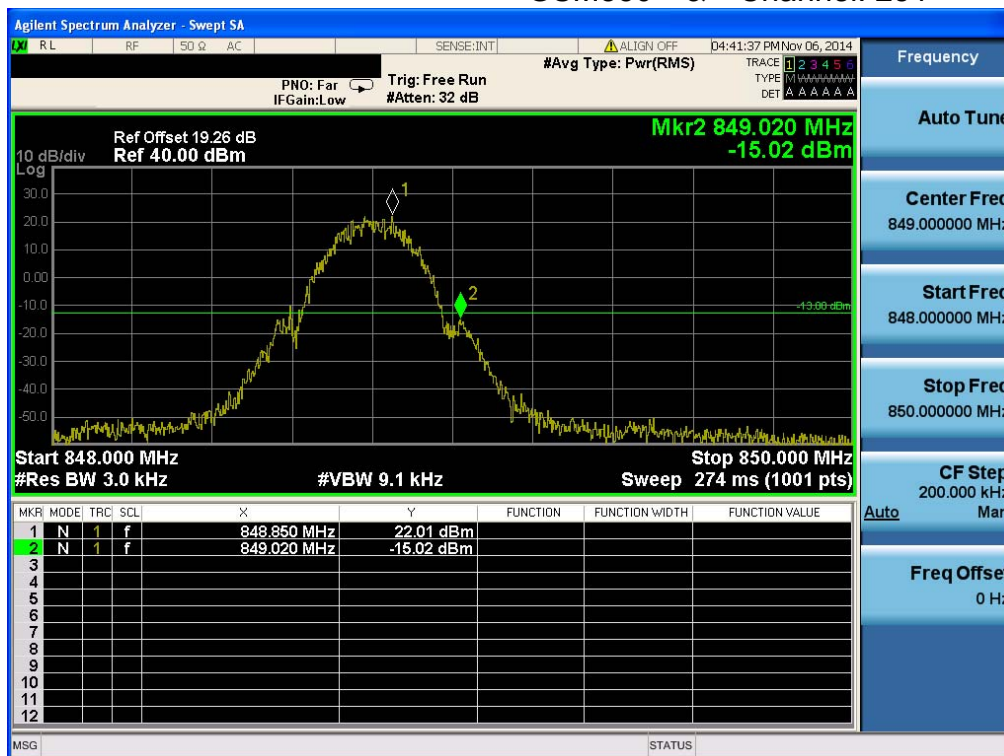


8.4 Band Edge

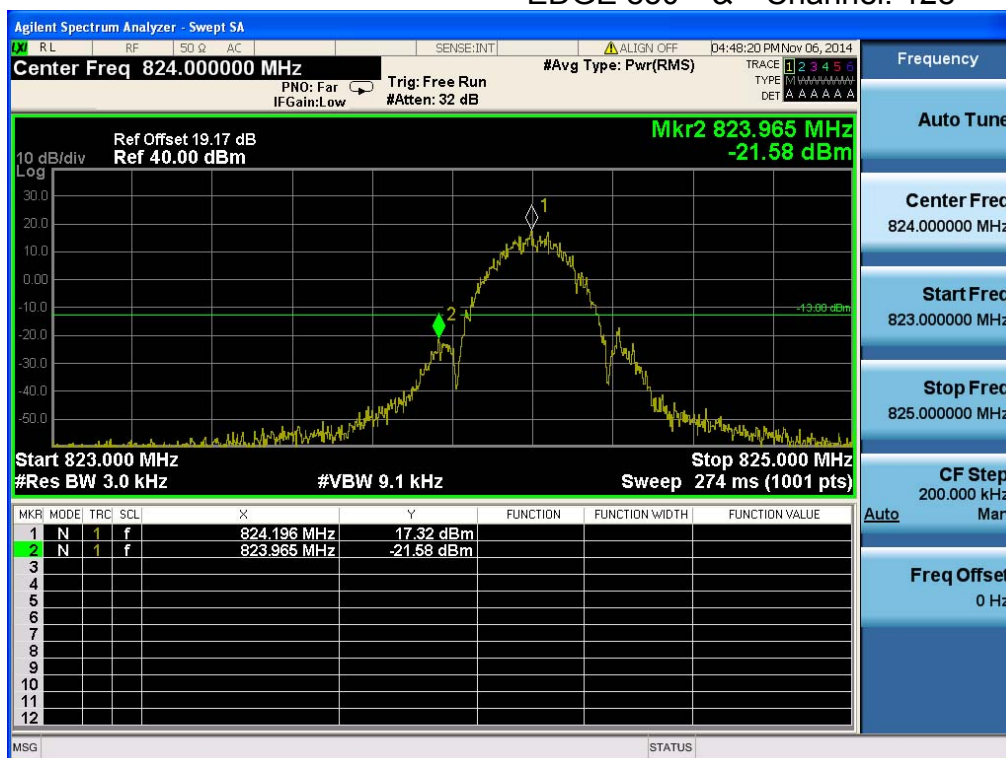
GSM850 & Channel: 128



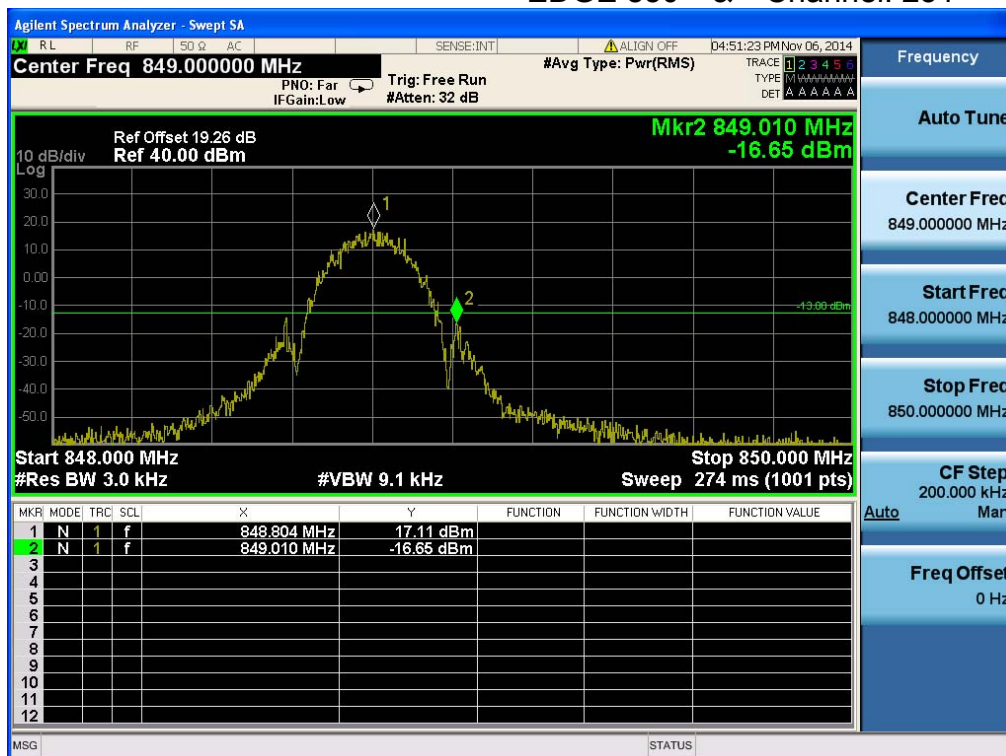
GSM850 & Channel: 251



EDGE 850 & Channel: 128



EDGE 850 & Channel: 251



Agilent Spectrum Analyzer - Swept SA

WEDNESDAY Channel: HZ

RL RF 50 Ω AC SENSE:INT ALIGN OFF 05:45:40 PM Nov 06, 2014

PNO: Far Trig: Free Run #Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 TYPE 1 2 3 4 5 6 7 8 9 10 11 12 DET A A A A A A A A

IFGain:Low #Atten: 32 dB

Ref Offset 19.17 dB Ref 35.00 dBm

Mkr2 824.00 MHz -16.53 dBm

10 dB/div Log

Start 819.000 MHz #Res BW 51 kHz #VBW 200 kHz Stop 829.000 MHz Sweep 4.73 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	827.00 MHz	15.81 dBm			
2	N	1	f	824.00 MHz	-16.53 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Freq 824.000000 MHz

Start Freq 819.000000 MHz

Stop Freq 829.000000 MHz

CF Step 1.000000 MHz

Auto Mar

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT

ALIGN OFF 05:46:47 PM Nov 06, 2014

#Avg Type: Pwr(RMS) TRACE 1 2 3 4 5

TYPE RFFFFFFFFF

DET A A A A A A

PN0: Far Trig: Free Run

IFGain:Low #Atten: 32 dB

Ref Offset 19.16 dB

Ref 35.00 dBm

Mkr2 822.622 MHz

-16.65 dBm

10 dB/div

Log

25.0

15.0

5.00

-5.00

-15.0

-25.0

-35.0

-45.0

-55.0

Start 819.000 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 823.000 MHz

Sweep 1.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	822.624 MHz	-16.65 dBm			
2	N	1	f	822.622 MHz	-16.65 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Freq 821.000000 MHz

Start Freq 819.000000 MHz

Stop Freq 823.000000 MHz

CF Stop 400.000 kHz

Auto Mar

Freq Offset 0 Hz

[illegible]

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT

ALIGN OFF 05:51:21 PM Nov 06, 2014

#Avg Type: Pwr(RMS) TRACE 1 2 3 4 5

PNO: Far Trig: Free Run

IFGain:Low #Atten: 32 dB

TYPE RRRRRRRRRR

DET A A A A A A

Ref Offset 19.26 dB

Ref 35.00 dBm

Mkr2 850.305 MHz

-19.11 dBm

10 dB/div

Log

25.0

15.0

5.00

-5.00

-15.0

-25.0

-35.0

-45.0

-55.0

-13.00 dBm

Start 850.000 MHz

#Res BW 100 kHz

#VBW 300 kHz

Stop 854.000 MHz

Sweep 1.00 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	850.304 MHz	-19.11 dBm			
2	N	1	f	850.305 MHz	-19.11 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Freq 852.000000 MHz

Start Freq 850.000000 MHz

Stop Freq 854.000000 MHz

CF Step 400.000 kHz

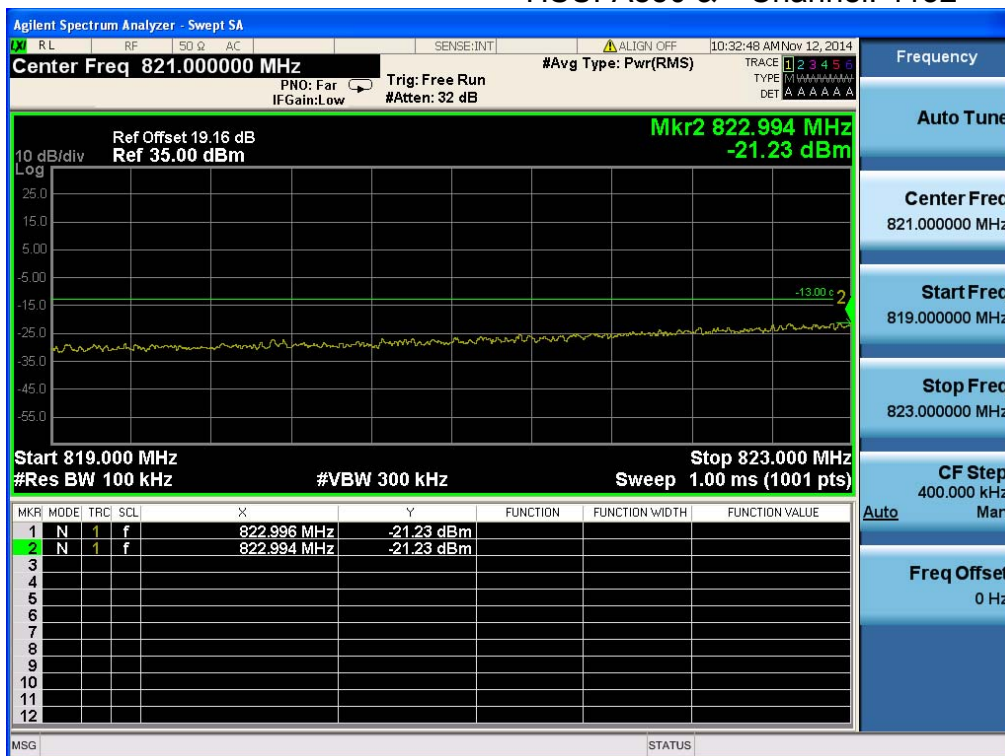
Auto Mar

Freq Offset 0 Hz

HSUPA850& Channel: 4132



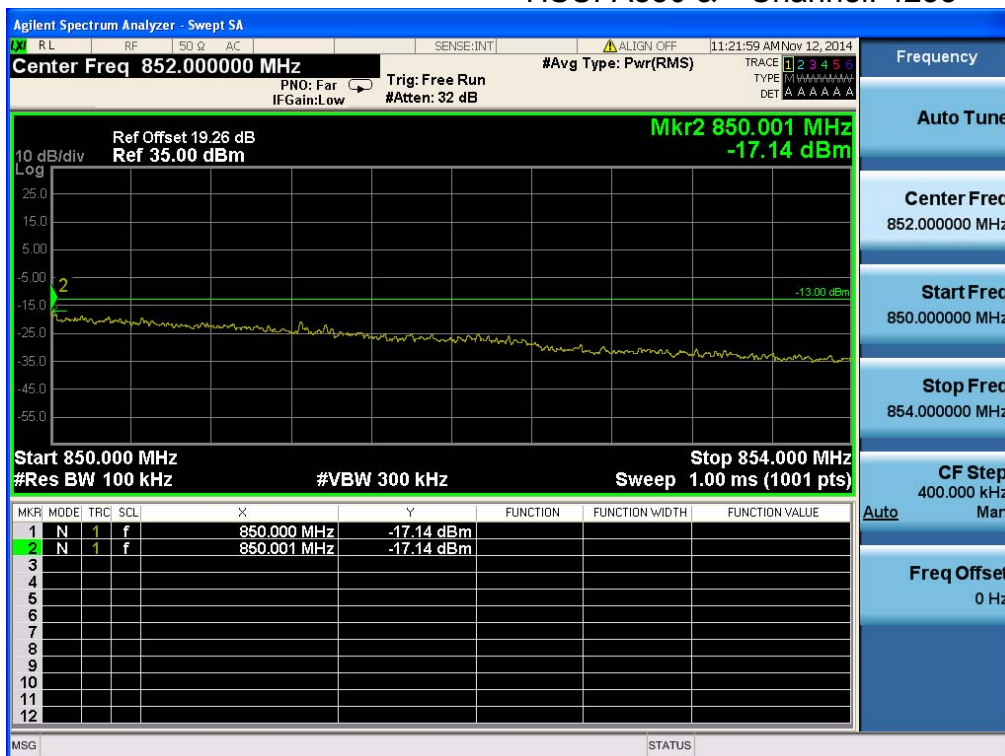
HSUPA850 & Channel: 4132



HSUPA850 & Channel: 4233



HSUPA850 & Channel: 4233



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN OFF 05:36:49 PM Nov 06, 2014

#Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 6
TYPE R W W W W W W W
DET A A A A A A A A

PNO: Far Trig: Free Run
IFGain:Low #Atten: 30 dB

Ref Offset 19.82 dB
Ref 39.82 dBm

Mkr2 1.849 995 GHz
-16.93 dBm

10 dB/div
Log

Start 1.849000 GHz
#Res BW 3.0 kHz

Stop 1.851000 GHz
Sweep 274 ms (1001 pts)

#VBW 9.1 kHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.850 224 GHz	19.88 dBm			
2	N	1	f	1.849 995 GHz	-16.93 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Auto Tune
Center Freq 1.85000000 GHz
Start Freq 1.84900000 GHz
Stop Freq 1.85100000 GHz
CF Step 200.000 kHz
Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT

ALIGN OFF

DS:41:02 PM Nov 06, 2014

#Avg Type: Pwr(RMS)

TRACE 1 2 3 4 5

TYPE R1111111111

DET A A A A A A

PNO: Far IF Gain: Low

Trig: Free Run #Atten: 30 dB

Ref Offset 19.92 dB Ref 39.92 dBm

Mkr2 1.910 020 GHz -17.59 dBm

Start 1.909000 GHz Stop 1.911000 GHz

#Res BW 3.0 kHz #VBW 9.1 kHz Sweep 274 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.909 866 GHz	23.11 dBm			
2	N	1	f	1.910 020 GHz	-17.59 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Auto Tune

Center Freq 1.91000000 GHz

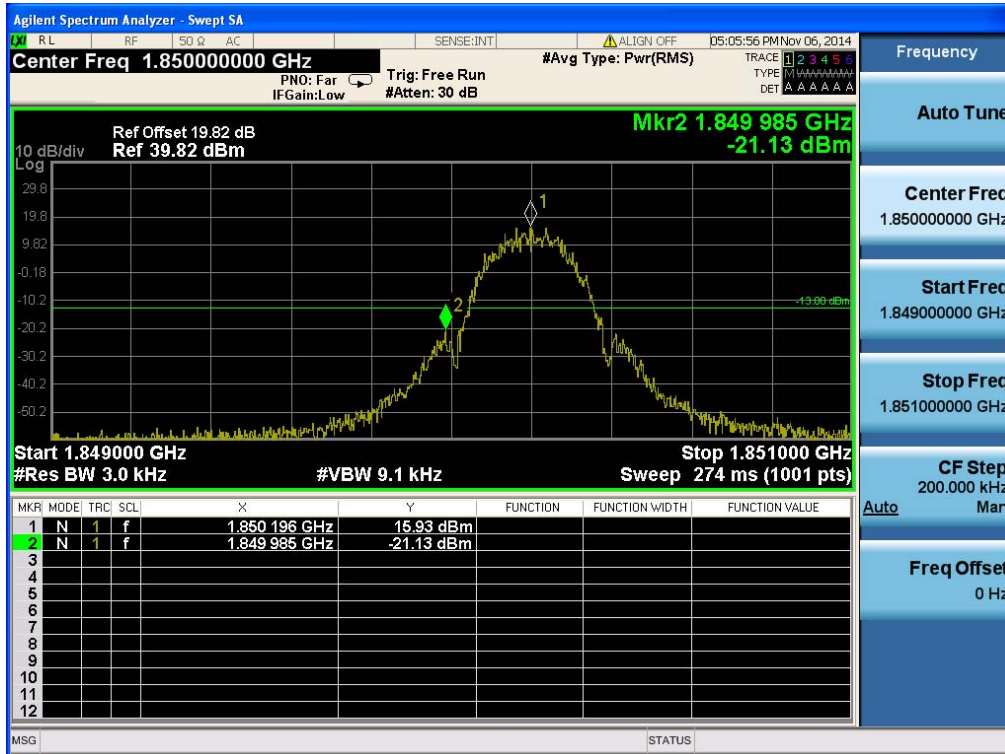
Start Freq 1.90900000 GHz

Stop Freq 1.91100000 GHz

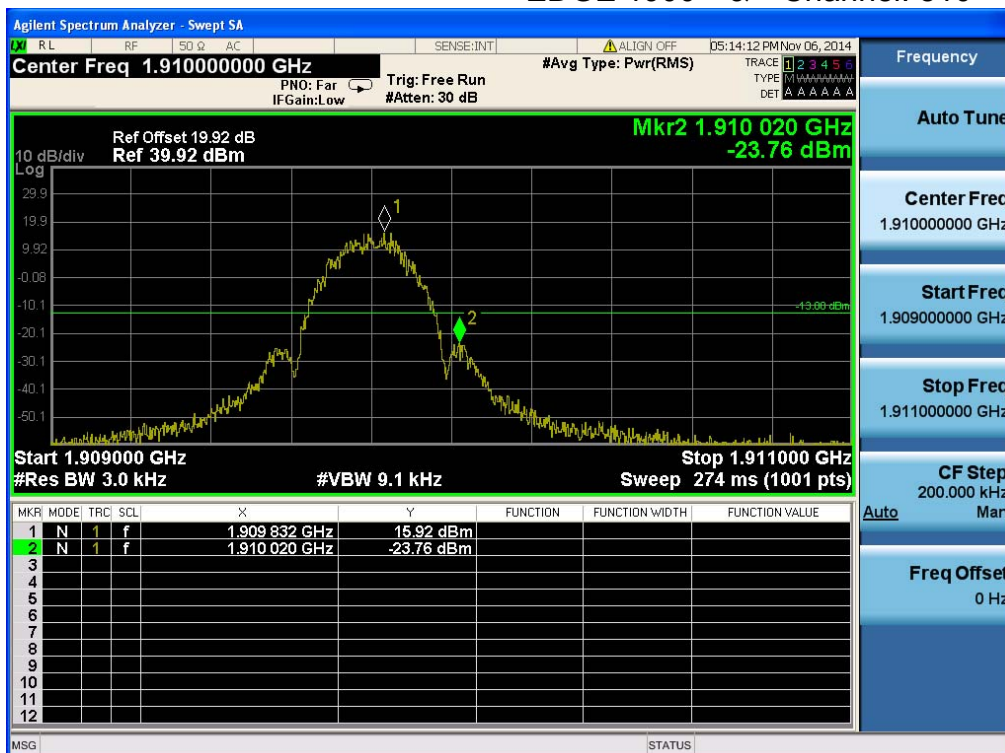
CF Step 200.000 kHz

Freq Offset 0 Hz

EDGE 1900 & Channel: 512



EDGE 1900 & Channel: 810



Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN OFF 05:57:44 PM Nov 06, 2014

#Avg Type: Pwr(RMS) PNO: Far IFGain:Low Trig: Free Run #Atten: 30 dB

TRACE 1 2 3 4 5 TYPE: M M M M M M M M DET: A A A A A A A

Ref Offset 19.82 dB Ref 35.00 dBm

Mkr2 1.849 97 GHz -17.77 dBm

10 dB/div Log

Start 1.845000 GHz #Res BW 51 kHz #VBW 200 kHz Stop 1.855000 GHz Sweep 4.73 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.853 01 GHz	15.63 dBm			
2	N	1	f	1.849 97 GHz	-17.77 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Auto Tune

Center Freq 1.85000000 GHz

Start Freq 1.84500000 GHz

Stop Freq 1.85500000 GHz

CF Step 1.000000 MHz

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT

ALIGN OFF 06:01:37 PM Nov 06, 2014

#Avg Type: Pwr(RMS) TRACE 1 2 3 4 5
TYPE RFFFFFFFFF
DET A A A A A A

PNO: Fast IFGain:Low Trig: Free Run #Atten: 30 dB

Ref Offset 19.81 dB
Ref 35.00 dBm

Mkr2 1.848 986 GHz
-15.02 dBm

10 dB/div
Log

Start 1.845000 GHz
#Res BW 1.0 MHz

Stop 1.849000 GHz
#Sweep 1.00 s (1001 pts)

#VBW 3.0 MHz

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.849 000 GHz	-14.79 dBm			
2	N	1	f	1.848 986 GHz	-15.02 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Freq
1.847000000 GHz

Start Freq
1.845000000 GHz

Stop Freq
1.849000000 GHz

CF Step
400.000 kHz

Auto Mar

Freq Offset
0 Hz

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT ALIGN OFF 06:08:20 PM Nov 06, 2014

PNO: Far Trig: Free Run #Avg Type: Pwr(RMS) PNO: Far IFGain:Low #Atten: 30 dB

TRACE 1 2 3 4 5 6 TYPE 1 2 3 4 5 6 7 8 9 10 11 12 DET A A A A A A A A

Ref Offset 19.92 dB Ref 35.00 dBm

Mkr2 1.910 01 GHz -21.02 dBm

10 dB/div Log

Start 1.905000 GHz #Res BW 51 kHz #VBW 200 kHz Stop 1.915000 GHz Sweep 4.73 ms (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.90663 GHz	15.43 dBm			
2	N	1	f	1.91001 GHz	-21.02 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Frequency 1.910000000 GHz

Start Frequency 1.905000000 GHz

Stop Frequency 1.915000000 GHz

CF Stop 1.000000 MHz

Auto

Freq Offset 0 Hz

Agilent Spectrum Analyzer - Swept SA

R/L RF 50 Ω AC SENSE:INT ALIGN OFF 06:10:58 PM Nov 06, 2014
#Avg Type: Pwr(RMS) TRACE 1 2 3 4 5 F TYPE MAAAAAAA DET AAAAAA

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

Ref Offset 19.92 dB Ref 35.00 dBm

Mkr2 1.911 009 GHz -15.79 dBm

10 dB/div Log

Start 1.911000 GHz Stop 1.915000 GHz
#Res BW 1.0 MHz #VBW 3.0 MHz #Sweep 1.00 s (1001 pts)

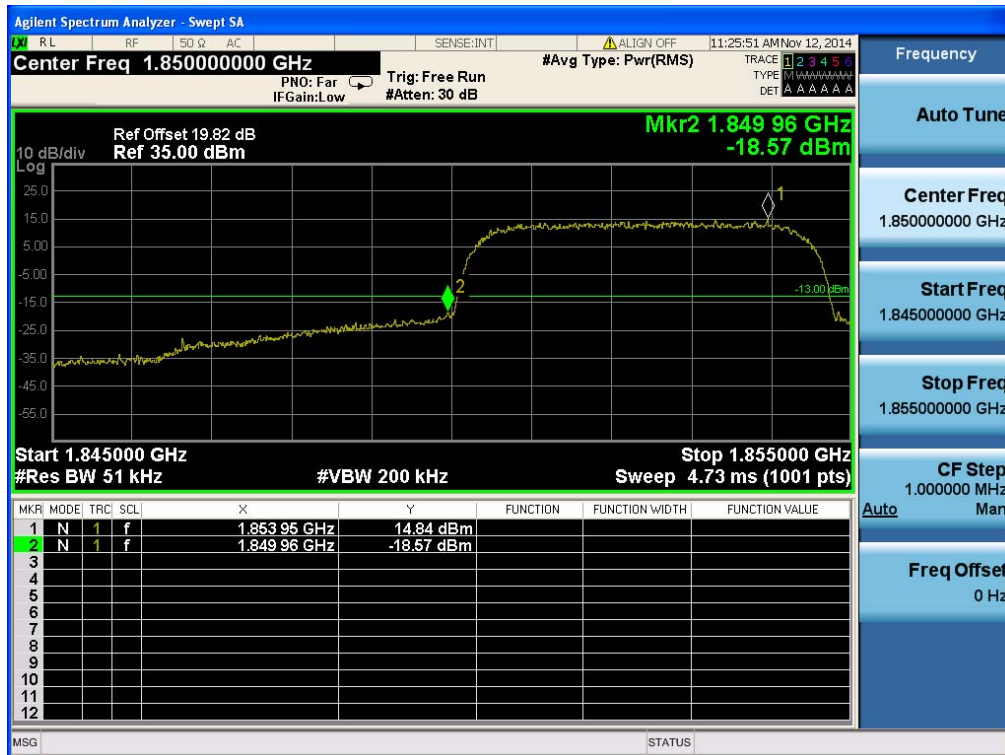
MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.911 000 GHz	-15.64 dBm			
2	N	1	f	1.911 009 GHz	-15.79 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Frequency Auto Tune Center Frequency 1.913000000 GHz Start Frequency 1.911000000 GHz Stop Frequency 1.915000000 GHz CF Step 400.000 kHz Mar

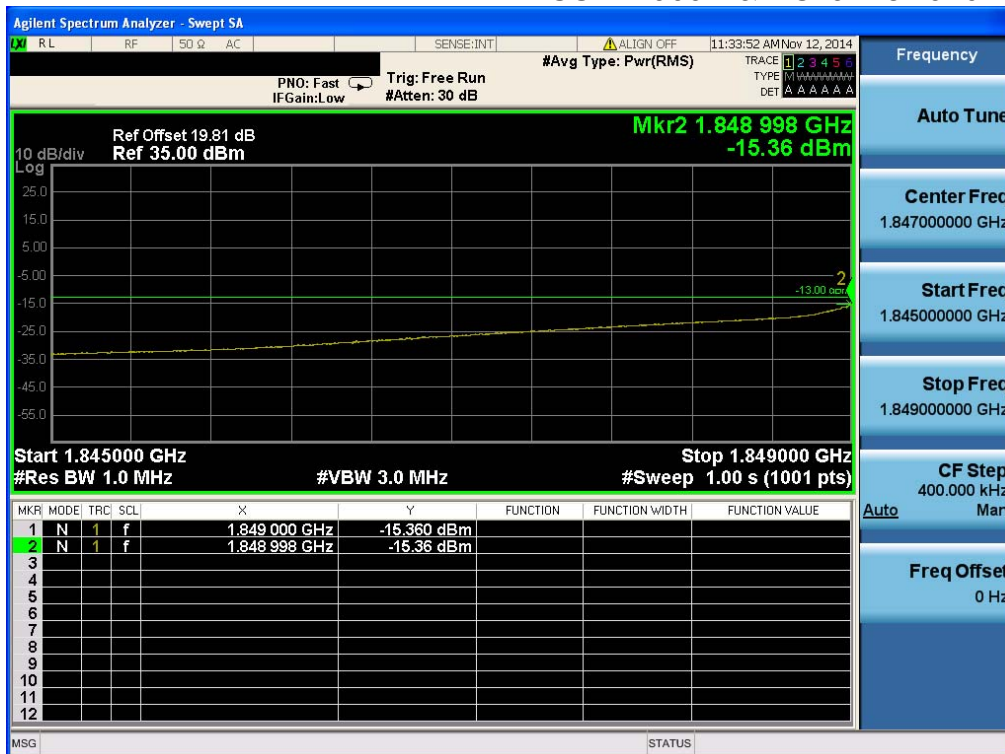
Freq Offset 0 Hz

MISG STATUS

HSUPA1900 & Channel: 9262



HSUPA1900 & Channel: 9262



Agilent Spectrum Analyzer - Sweep SA

RL RF 50 Ω AC SENSE:INT ALIGN OFF D1:13:35 PM Nov 12, 2014

Center Freq 1.91000000 GHz PNO: Far Trig: Free Run #Avg Type: Pwr(RMS) TRACE 1 2 3 4 5
IF Gain: Low #Atten: 30 dB TYPE R H A A A A A A A DET A A A A A A A

Ref Offset 19.92 dB
Ref 35.00 dBm

Mkr2 1.91002 GHz
-19.37 dBm

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.90728 GHz	-15.01 dBm			
2	N	1	f	1.91002 GHz	-19.37 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

Start 1.905000 GHz Stop 1.915000 GHz
#Res BW 51 kHz #VBW 200 kHz Sweep 4.73 ms (1001 pts)

Agilent Spectrum Analyzer - Swept SA

RL RF 50 Ω AC SENSE:INT

ALIGN OFF 01:15:23 PM Nov 12, 2014

#Avg Type: Pwr(RMS) TRACE 1 2 3 4 5
TYPE R F H A A A A A A
DET A A A A A A A

PNO: Fast IF Gain: Low Trig: Free Run #Atten: 30 dB

Ref Offset 19.92 dB Ref 35.00 dBm

Mkr2 1.911 001 GHz -15.23 dBm

10 dB/div Log

Start 1.911000 GHz #Res BW 1.0 MHz #VBW 3.0 MHz Stop 1.915000 GHz #Sweep 1.00 s (1001 pts)

MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	1.911 000 GHz	-15.231 dBm			
2	N	1	f	1.911 001 GHz	-15.23 dBm			
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								

MSG STATUS

Frequency

Auto Tune

Center Freq 1.913000000 GHz

Start Freq 1.911000000 GHz

Stop Freq 1.915000000 GHz

CF Step 400.000 kHz

Auto Mar

Freq Offset 0 Hz