

9. OUT OF BAND EMISSION AT ANTENNA TERMINALS

9.1. Standard Applicable

FCC §22.917(a), §24.238(a), §27.53(g)(h), the magnitude of each spurious and harmonic emission that can be detected when the equipment is operated under the conditions specified in the instruction manual and/ or alignment procedure, shall not be less than 43 + 10 log (mean output power in watts) dBc below the mean power output outside a license's frequency block (-13dBm).

§27.53 (m) (4) shall not be less than 55 +10log(mean output power in watt) dBc below the mean power output outside a license's frequency block (-25dBm).

FCC §27.53(c) (2) (4)

(c) For operations in the 746–758 MHz band and the 776–788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(2) On any frequency outside the 776–788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB (-13dBm)

(4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;

FCC §27.53(c) (5) & FCC §27.53(g)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC §27.53(h)

Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

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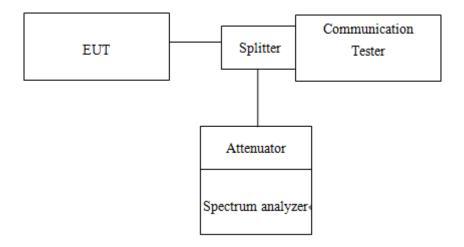


FCC §27.53(m) (4) (6)

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P) dB$ on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P) dB$ on all frequencies between 5 megahertz and X megahertz from the channel edge, and 55 + 10 log (P) dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in § 27.53(m)(6). In addition, the attenuation factor shall not be less that $43 + 10 \log (P) dB$ on all frequencies between 2490.5 MHz and 2496 MHz and 55 + 10 log (P) dB at or below 2490.5 MHz.

Measurement procedure. Compliance with these rules is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed; for mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed. A narrower resolution bandwidth is permitted in all cases to improve measurement accuracy provided the measured power is integrated over the full required measurement bandwidth (i.e. 1 megahertz or 1 percent of emission bandwidth, as specified; or 1 megahertz or 2 percent for mobile digital stations, except in the band 2495-2496 MHz). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power. With respect to television operations, measurements must be made of the separate visual and aural operating powers at sufficiently frequent intervals to ensure compliance with the rules.

9.2. Test SET-UP



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9.3. Measurement Procedure

Conducted Emission

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.

- 1. To connect Antenna Port of EUT to Spectrum.
- 2. Set RBW = 1MHz & VBW = 1MHz on Spectrum.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

Band Edge

- 1. To connect Antenna Port of EUT to Spectrum.
- The band edge of low and high channels for the highest RF powers was measured. Setting RBW ≥ 1% EBW.
- 3. Allow trace to fully stabilize
- 4. Repeat above procedures until all default test channel measured were complete.

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9.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site							
EQUIPMENT	MFR	MODEL	MODEL SERIAL		CAL DUE.		
TYPE		NUMBER	NUMBER	CAL.			
Power Meter	Anritsu	ML2495A	1005007	12/09/2015	12/08/2016		
Power Sensor	Anritsu	MA2411B	917032	12/09/2015	12/08/2016		
EXA Spectrum Analyzer	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017		
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2016	01/01/2017		
Coaxial Cable	HUBER+SUHNE R	SUCOFLEX 102	23670/2	01/02/2016	01/01/2017		
Attenuator	Attenuator Mini-Circuit BW-S10W2+		2	01/02/2016	01/01/2017		
Splitter	Agilent	11636B	N/A	01/02/2016	01/01/2017		
DC Power Supply	Agilent	E3640A	MY52410006	11/05/2015	11/04/2016		
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017		
Radio Communication Analyzer	R&S	CMU200	102189	02/11/2016	02/10/2017		
Radio Communication Analyzer	Anritsu	MT8820C	6200995019	09/25/2015	09/24/2016		
Radio Communication Analyer	Anritsu	MT8820C	6201465317	12/10/2015	12/09/2016		

9.5. Measurement Result:

Refer to next pages.

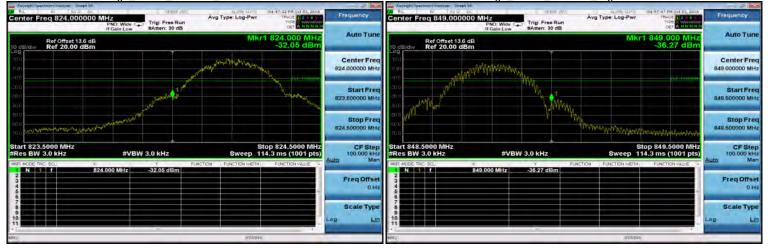
NOTE: The occurrence of the spike on the conducted emission is the signal of the fundamental emission.

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Band Edge_GPRS_850MHz_LowCH128-824.2

Band Edge_EDGE_850MHz_HighCH251-848.8



Band Edge_GPRS_850MHz_HighCH251-848.8

Band Edge_GPRS_1900MHz_LowCH512-1850.2 Avg Type: L 0 GHz er Freg 849.0 00 MHz Trig: Free Run Trig: Free Run Auto Tu Auto Tu Ref Offset 13.6 dB Ref 20.00 dBm Ref Offset 14 dB Ref 20.00 dBn Center Fre Center Fre Start Fre Start Fre Stop Fre Stop Fr 849 5/ Stop 849.50 rt 848.5000 MH 1.8495000 GHz BW 3.0 kHz Stop 1.8505000 GH CF Step #VBW 3.0 kH M 2 O LU Freq Offs Freq Offse Scale Typ Scale Typ

Band Edge_EDGE_850MHz_LowCH128-824.2

Band Edge_GPRS_1900MHz_HighCH810-1909.8



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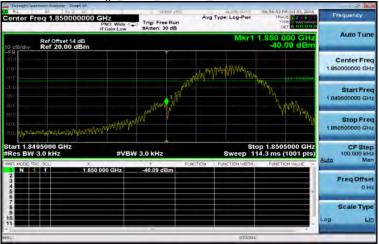
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Band Edge_EDGE_1900MHz_LowCH512-1850.2



Band Edge_EDGE_1900MHz_HighCH810-1909.8



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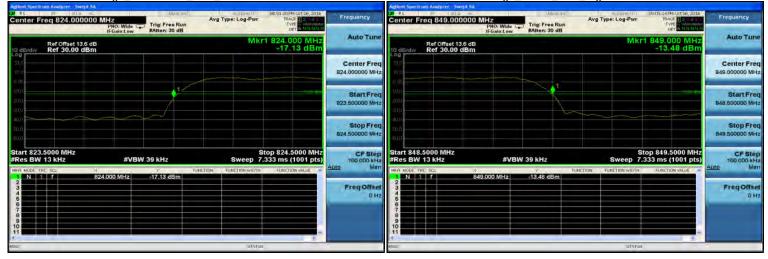
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Band Edge_CDMA2000_BC0_LowCH1013-824.7

Band Edge_EVDO_BC0_HighCH777-848.31

Band Edge_CDMA2000_BC1_LowCH25-1851.3

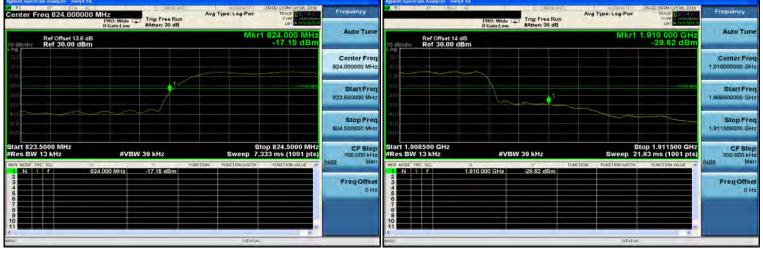


Band Edge_CDMA2000_BC0_HighCH777-848.31

Avg Type: Log-P Frequency Frequency ter Freq 849.000000 MHz Avg Type: Log-P Trig: Free Run Trig: Free Ru Auto Tur Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Ref Offset 14 dB Ref 30.00 dBm -13.33 dE Center Free Center Free 849.000000 MH 1.850000000 GH StartFre StartFre BAR 500000 M 00000 GH 1.84 Stop Fre Stop Fre 1.851 Stop 849.5000 MH CF Ster Stop 1.851500 GH rt 848.5000 M 1.848500 GH CF Step #VRM 30 kH Freq Offs Freq Offse DH DH

Band Edge_EVDO_BC0_LowCH1013-824.7

Band Edge_CDMA2000_BC1_HighCH1175-1908.8



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Band Edge_EVDO_BC1_LowCH25-1851.3



Band Edge_EVDO_BC1_HighCH1175-1908.8

	#Atten: 30 dB		TYPE DET A 77517/17/17	
		Mkr1	1.910 000 GHz -29.99 dBm	Auto Tune
				Center Free 1.910000000 GH
	1		-1916-20n	Start Free 1.908500000 GH
				Stop Fre 1.911500000 GH
#VBW	39 kHz			CF Stej 300.000 kH
0 000 GHz	-29.99 dBm	NCTION FUNCTION WIDTH	FUNCTION VALUE	Auto Mar Freg Offse D H
	#VBW		#VBW 39 KHz Sweep 2: FUNCTION FUNCTION	-29.99 dBm

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Band Edge_WCDMA_B2_LowCH9262-1852.4

Band Edge_HSDPA_B2_HighCH9538-1907.6



Band Edge_WCDMA_B2_HighCH9538-1907.6

Band Edge_HSUPA_B2_LowCH9262-1852.4 Avg Type: Log Freq 1.910 000 GHz 00 GHz Trig: Free Run er Freg 1.85 Trig: Free Run Auto Tu Auto Tu Ref Offset 14 dB Ref 20.00 dBm Ref Offset 14 dB Ref 20.00 dBn Center Fre Center Fre Start Fre Start Fre Stop Fre Stop Fr Stop 1.9105000 GH Stop 1.8505000 GH rt 1.9095000 GHz 1.8495000 GHz CF Step #VBW 150 kH #VBW 150 kH Freq Offs Freq Offse Scale Typ Scale Typ L

Band Edge_HSDPA_B2_LowCH9262-1852.4

Band Edge_HSUPA_B2_HighCH9538-1907.6



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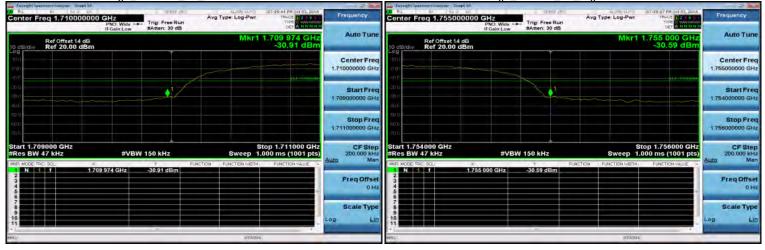
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Band Edge_WCDMA_B4_LowCH1312-1712.4

Band Edge_HSDPA_B4_HighCH1513-1752.6

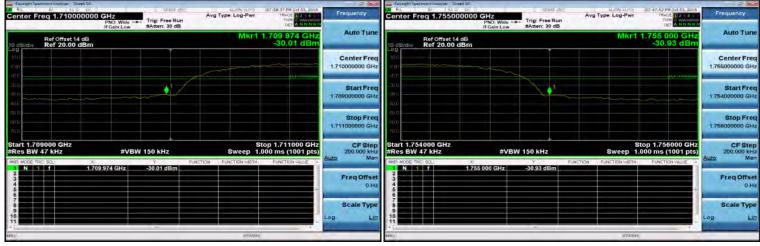


Band Edge_WCDMA_B4_HighCH1513-1752.6

Band Edge_HSUPA_B4_LowCH1312-1712.4 er Freg 1.7550 00 GHz 000 GHz Trig: Free Run er Freg 1.71 Trig: Free Run Auto Tu Auto Tu Ref Offset 14 dB Ref 20.00 dBn Ref Offset 14 dB Ref 20.00 dBn Center Fre Center Fre Start Fre Start Fre Stop Fre Stop Fre 1711 es BW 47 kHz Stop 1.756000 GH Stop 1.711000 GH CF Step 1.709000 GHz BW 47 kHz #VBW 150 kH #VBW 150 kH Freq Offs Freq Offs Scale Typ Scale Typ

Band Edge_HSDPA_B4_LowCH1312-1712.4

Band Edge_HSUPA_B4_HighCH1513-1752.6



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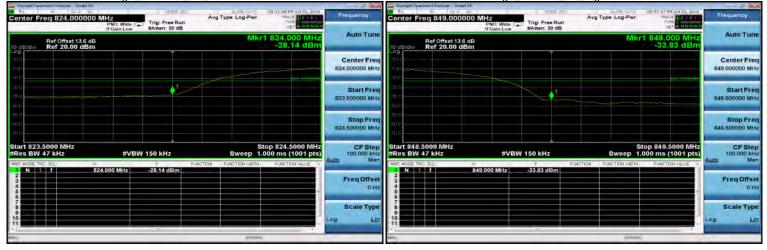
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Band Edge_WCDMA_B5_LowCH4132-826.4

Band Edge_HSDPA_B5_HighCH4233-846.6

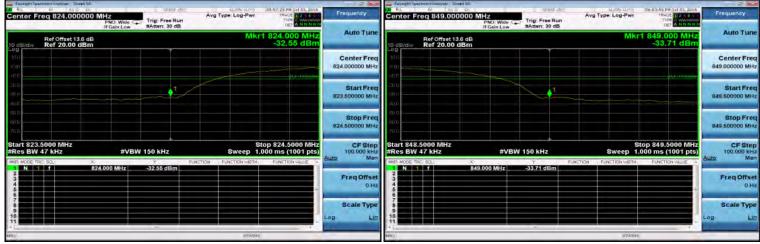


Band Edge_WCDMA_B5_HighCH4233-846.6

Band Edge_HSUPA_B5_LowCH4132-826.4 Avg Type: Log Avg Type: Loger Freg 849.0 00 MHz Trig: Free Run 0 MHz Trig: Free Run Auto Tu Auto Tu 49.000 M Ref Offset 13.6 dB Ref 20.00 dBm Ref Offset 13.6 dB Ref 20.00 dBm Center Fre Center Fre 824,000000 M Start Fre Start Fre Stop Fre Stop Fre 824.500000 Mi 849.50 Stop 849.5000 M Stop 824.5000 M rt 848.5000 MHz 823.5000 MH CF Step #VBW 150 kH #VBW 150 kH Freq Offse Freq Offse Scale Typ Scale Typ

Band Edge_HSDPA_B5_LowCH4132-826.4

Band Edge_HSUPA_B5_HighCH4233-846.6



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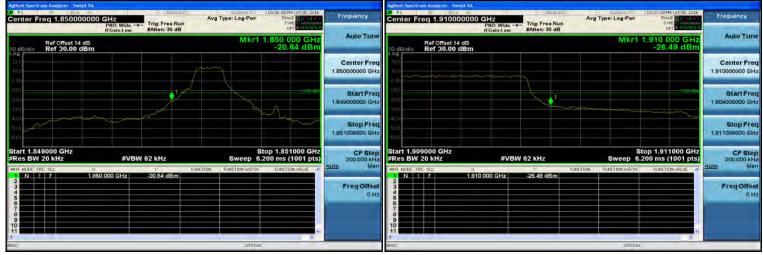
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Band Edge_Band2 1.4MHz_QPSK 1 0_LowCH18607-1850.7

Band Edge_Band2 1.4MHz_QPSK 6 0_HighCH19193-1909.3



Band Edge_Band2 1.4MHz_QPSK 1 5_HighCH19193-1909.3



Band Edge_Band2 1.4MHz_QPSK 6 0_LowCH18607-1850.7

Band Edge_Band2 3MHz_QPSK 1 0_LowCH18615-1851.5



Band Edge_Band2 3MHz_QPSK 1 14_HighCH19185-1908.5



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Band Edge_Band2 3MHz_QPSK 15 0_LowCH18615-1851.5

Band Edge_Band2 5MHz_QPSK 1 24_HighCH19175-1907.5



Band Edge_Band2 3MHz_QPSK 15 0_HighCH19185-1908.5

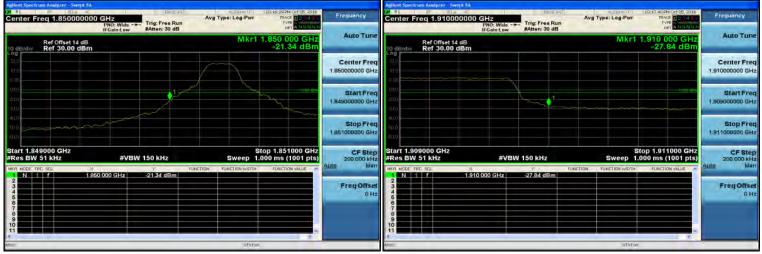


Band Edge_Band2 5MHz_QPSK 1 0_LowCH18625-1852.5

Band Edge_Band2 5MHz_QPSK 25 0_LowCH18625-1852.5



Band Edge_Band2 5MHz_QPSK 25 0_HighCH19175-1907.5



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Band Edge_Band2 10MHz_QPSK 1 0_LowCH18650-1855

Band Edge_Band2 10MHz_QPSK 50 0_HighCH19150-1905



Band Edge_Band2 10MHz_QPSK 1 49_HighCH19150-1905



Band Edge_Band2 10MHz_QPSK 50 0_LowCH18650-1855

Band Edge_Band2 15MHz_QPSK 1 0_LowCH18675-1857.5



Band Edge_Band2 15MHz_QPSK 1 74_HighCH19125-1902.5



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Band Edge_Band2 15MHz_QPSK 75 0_LowCH18675-1857.5

Band Edge_Band2 20MHz_QPSK 1 99_HighCH19100-1900

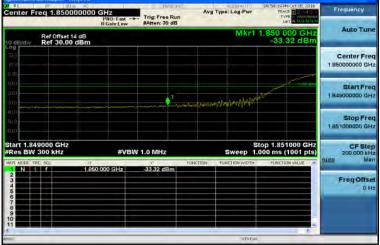


Band Edge_Band2 15MHz_QPSK 75 0_HighCH19125-1902.5



Band Edge_Band2 20MHz_QPSK 1 0_LowCH18700-1860

Band Edge_Band2 20MHz_QPSK 100 0_LowCH18700-1860



Band Edge_Band2 20MHz_QPSK 100 0_HighCH19100-1900



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Band Edge_Band4 1.4MHz_QPSK 1 0_LowCH19957-1710.7

Band Edge_Band4 1.4MHz_QPSK 6 0_HighCH20393-1754.3



Band Edge_Band4 1.4MHz_QPSK 1 5_HighCH20393-1754.3



Band Edge_Band4 1.4MHz_QPSK 6 0_LowCH19957-1710.7

Band Edge_Band4 3MHz_QPSK 1 0_LowCH19965-1711.5



Band Edge_Band4 3MHz_QPSK 1 14_HighCH20385-1753.5



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Band Edge_Band4 3MHz_QPSK 15 0_LowCH19965-1711.5

Band Edge_Band4 5MHz_QPSK 1 24_HighCH20375-1752.5



Band Edge_Band4 3MHz_QPSK 15 0_HighCH20385-1753.5

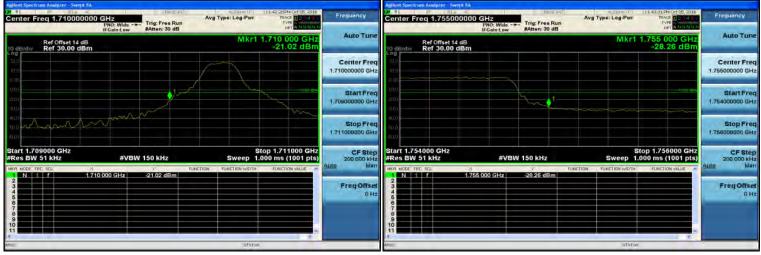


Band Edge_Band4 5MHz_QPSK 1 0_LowCH19975-1712.5

Band Edge_Band4 5MHz_QPSK 25 0_LowCH19975-1712.5



Band Edge_Band4 5MHz_QPSK 25 0_HighCH20375-1752.5



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Band Edge_Band4 10MHz_QPSK 1 0_LowCH20000-1715

Band Edge_Band4 10MHz_QPSK 50 0_HighCH20350-1750



Band Edge_Band4 10MHz_QPSK 1 49_HighCH20350-1750



Band Edge_Band4 10MHz_QPSK 50 0_LowCH20000-1715

Band Edge_Band4 15MHz_QPSK 1 0_LowCH20025-1717.5



Band Edge_Band4 15MHz_QPSK 1 74_HighCH20325-1747.5



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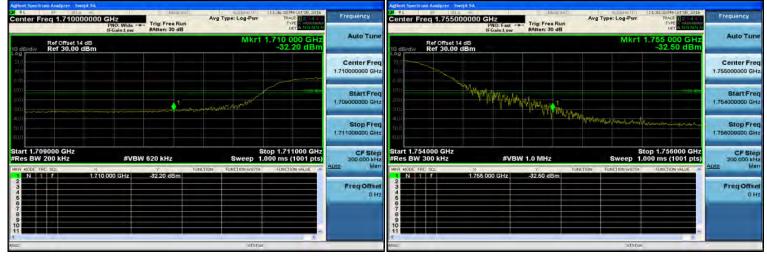
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Band Edge_Band4 15MHz_QPSK 75 0_LowCH20025-1717.5

Band Edge_Band4 20MHz_QPSK 1 99_HighCH20300-1745



Band Edge_Band4 15MHz_QPSK 75 0_HighCH20325-1747.5



Band Edge_Band4 20MHz_QPSK 1 0_LowCH20050-1720

Band Edge_Band4 20MHz_QPSK 100 0_LowCH20050-1720



Band Edge_Band4 20MHz_QPSK 100 0_HighCH20300-1745



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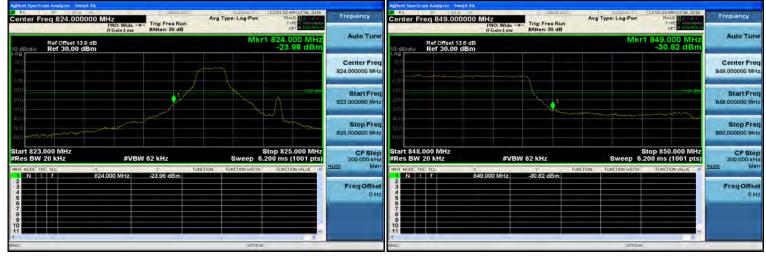
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Band Edge_Band5 1.4MHz_QPSK 1 0_LowCH20407-824.7

Band Edge_Band5 1.4MHz_QPSK 6 0_HighCH20643-848.3



Band Edge_Band5 1.4MHz_QPSK 1 5_HighCH20643-848.3



Band Edge_Band5 1.4MHz_QPSK 6 0_LowCH20407-824.7

Band Edge_Band5 3MHz_QPSK 1 0_LowCH20415-825.5



Band Edge_Band5 3MHz_QPSK 1 14_HighCH20635-847.5



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Band Edge_Band5 3MHz_QPSK 15 0_LowCH20415-825.5

Band Edge_Band5 5MHz_QPSK 1 24_HighCH20625-846.5



Band Edge_Band5 3MHz_QPSK 15 0_HighCH20635-847.5

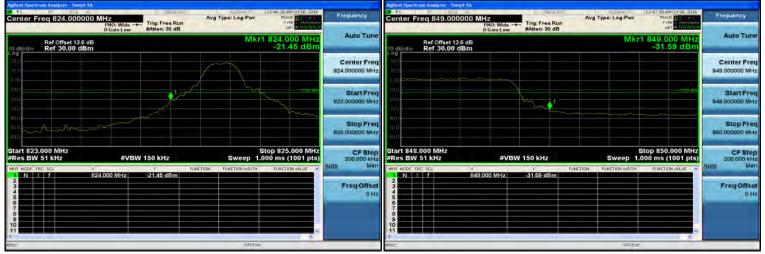
Frequency er Freg 849.000000 MHz Avg Type: Log-Trig: Free Ru Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Center Free 849 000000 MH Start Fre Stop Fre 850 0 CF Ster rt 848.000 MH Stop 850.000 M #VBM 120 kH Freq Offs DH

Band Edge_Band5 5MHz_QPSK 1 0_LowCH20425-826.5

Band Edge_Band5 5MHz_QPSK 25 0_LowCH20425-826.5



Band Edge_Band5 5MHz_QPSK 25 0_HighCH20625-846.5



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Band Edge_Band5 10MHz_QPSK 1 0_LowCH20450-829

Band Edge_Band5 10MHz_QPSK 50 0_HighCH20600-844



Band Edge_Band5 10MHz_QPSK 1 49_HighCH20600-844



Band Edge_Band5 10MHz_QPSK 50 0_LowCH20450-829

Band Edge_Band7 5MHz_QPSK 1 0_LowCH20775-2502.5



Band Edge_Band7 5MHz_QPSK 1 24_HighCH21425-2567.5



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Band Edge_Band7 5MHz_QPSK 25 0_LowCH20775-2502.5

Band Edge_Band7 10MHz_QPSK 1 49_HighCH21400-2565



Band Edge_Band7 5MHz_QPSK 25 0_HighCH21425-2567.5



Band Edge_Band7 10MHz_QPSK 1 0_LowCH20800-2505

Band Edge_Band7 10MHz_QPSK 50 0_LowCH20800-2505



Band Edge_Band7 10MHz_QPSK 50 0_HighCH21400-2565



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Band Edge_Band7 15MHz_QPSK 1 0_LowCH20825-2507.5

Band Edge_Band7 15MHz_QPSK 75 0_HighCH21375-2562.5



Band Edge_Band7 15MHz_QPSK 1 74_HighCH21375-2562.5



Band Edge_Band7 15MHz_QPSK 75 0_LowCH20825-2507.5

Band Edge_Band7 20MHz_QPSK 1 0_LowCH20850-2510



Band Edge_Band7 20MHz_QPSK 1 99_HighCH21350-2560



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Band Edge_Band7 20MHz_QPSK 100 0_LowCH20850-2510

Band Edge_Band12 1.4MHz_QPSK 1 5_HighCH23173-715.3



Band Edge_Band7 20MHz_QPSK 100 0_HighCH21350-2560



Band Edge_Band12 1.4MHz_QPSK 1 0_LowCH23017-699.7

Band Edge_Band12 1.4MHz_QPSK 6 0_LowCH23017-699.7



Band Edge_Band12 1.4MHz_QPSK 6 0_HighCH23173-715.3



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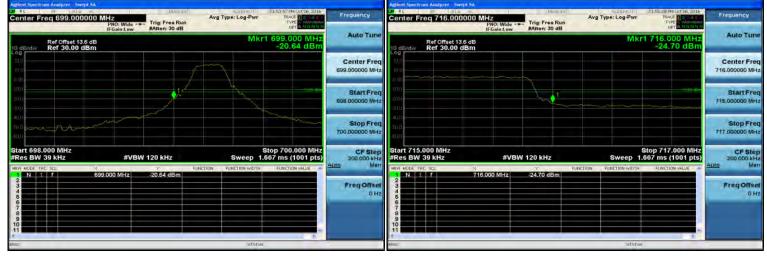
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Band Edge_Band12 3MHz_QPSK 1 0_LowCH23025-700.5

Band Edge_Band12 3MHz_QPSK 15 0_HighCH23165-714.5



Band Edge_Band12 3MHz_QPSK 1 14_HighCH23165-714.5

Avg Type: Log-P Frequency er Freg 716.000000 MHz Trig: Free Ru Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm -14.49 dE Center Free 716 000000 MH Start Fre Stop Fre CF Ster rt 715.000 MHz Stop 717.000 MH #VBW 120 kH 14.49 Freq Offs DH

Band Edge_Band12 3MHz_QPSK 15 0_LowCH23025-700.5

Band Edge_Band12 5MHz_QPSK 1 0_LowCH23035-701.5



Band Edge_Band12 5MHz_QPSK 1 24_HighCH23155-713.5



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Band Edge_Band12 5MHz_QPSK 25 0_LowCH23035-701.5

Band Edge_Band12 10MHz_QPSK 1 49_HighCH23130-711



Band Edge_Band12 5MHz_QPSK 25 0_HighCH23155-713.5

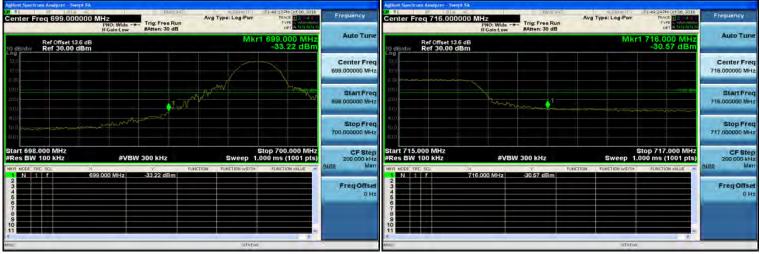
Frequency ter Freg 716.000000 MHz Avg Type: Log-Trig: Free Ru Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm -27.92 dE Center Free 716 000000 MH Start Fre Stop Fre CF Ster rt 715.000 MH Stop 717.000 M #VBM 150 kH Freq Offs DH

Band Edge_Band12 10MHz_QPSK 1 0_LowCH23060-704

Band Edge_Band12 10MHz_QPSK 50 0_LowCH23060-704



Band Edge_Band12 10MHz_QPSK 50 0_HighCH23130-711



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Band Edge_Band13 5MHz_QPSK 1 0_LowCH23205-779.5

Band Edge_Band13 5MHz_QPSK 25 0_HighCH23255-784.5



Band Edge_Band13 5MHz_QPSK 1 24_HighCH23255-784.5



Band Edge_Band13 5MHz_QPSK 25 0_LowCH23205-779.5

Band Edge_Band13 10MHz_QPSK 1 0_LowCH23230-782



Band Edge_Band13 10MHz_QPSK 1 49_HighCH23230-782



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Band Edge_Band13 10MHz_QPSK 50 0_LowCH23230-782

Band Edge_Band17 5MHz_QPSK 1 24_HighCH23825-713.5

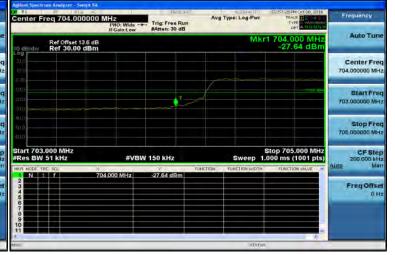


Band Edge_Band13 10MHz_QPSK 50 0_HighCH23230-782

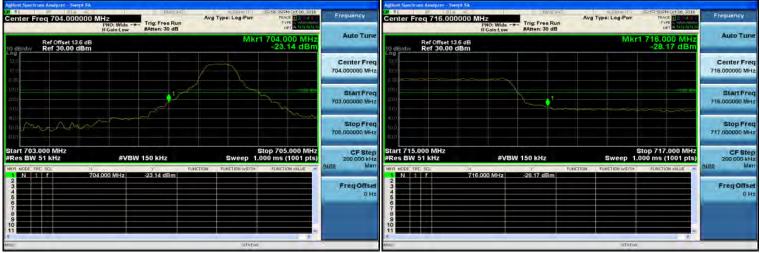
Frequency ter Freq 787,000000 MHz Avg Type: Log-P Trig: Free Ru Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Center Free 787.000000 MH Start Fre Stop Fre 788.07 CF Ster 786.000 BM 100 Stop 788.000 M FreqOffs DH

Band Edge_Band17 5MHz_QPSK 1 0_LowCH23755-706.5

Band Edge_Band17 5MHz_QPSK 25 0_LowCH23755-706.5



Band Edge_Band17 5MHz_QPSK 25 0_HighCH23825-713.5



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Band Edge_Band17 10MHz_QPSK 1 0_LowCH23780-709

Band Edge_Band17 10MHz_QPSK 50 0_HighCH23800-711



Band Edge_Band17 10MHz_QPSK 1 49_HighCH23800-711



Band Edge_Band17 10MHz_QPSK 50 0_LowCH23780-709



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30MHz~3GHz_GPRS_850MHz_LowCH128-824.2

3GHz~10GHz_GPRS_850MHz_MidCH190-836.6

30MHz~3GHz_GPRS_850MHz_HighCH251-848.8

Al 10 20 C 100 C 10	Frequency Auto Tune	Average State <	Frequency Auto Tune
Ref Offset 13.6 dB Mkr3 2,472 6 GHz 10 dB/div Ref 40.00 dBm -24.94 dBm -24.94 dBm	100000 X 8 Y 10	Ref Offset 13.6 dB Mkr1 3.770 GHz	Auto i une
	Center Freq 1.515000000 GHz	200	Center Freq 6 50000000 GHz
1/10 	Start Freq 30.000000 MHz		Start Freq 3,00000000 GHz
CD D previous provide an experimental provide and the state of the	Stop Freq 3.00000000 GHz		Stop Freq 10.00000000 GHz
Start 0.030 GHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (1001 pts) BR MOB TKG 50.0 X P Electron Electron effects Planton effects	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Ress BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pts) wmr Mote First Sci. x x Function in Sci. Function in Sci.	CF Step 700.000000 MHz Auto Man
1 N 1 f B23.0 MHz 33.34 dBm 2 N 1 f 1.648.4 GHz -28.07 dBm N 1 f 2.472 6 GHz -24.94 dBm 4	Freq Offset 0 Hz	1 N 1 f 3.770 GHz -21.04 dBm	Freq Offset 0 Hz
	Scale Type		Scale Type
autita con		autra Casa	

3GHz~10GHz_GPRS_850MHz_LowCH128-824.2

Avg Type: Log-P Ava Type: La 0000 GHz 0000 GHz Trig: Free Run Trig: Free Ru Auto Tur Auto Tur Ref Offset 13.6 dB Ref 40.00 dBm Ref Offset 13.6 dB Ref 40.00 dBm Center Fre Center Fre 15000000 GI Start Fre Start Fre **♦**³ Stop Fre Stop Fre Stop 10.000 GH: 11.67 ms (1001 pts es BW 1.0 MF CF Step rt 0.030 GHz Stop 3.00 2.000 ms (100 CF Step #VBW 1.0 MH 849.7 1.697.6 2.646.4 33.26 d Freq Offs Freq Offs Тур Scale Type L L

30MHz~3GHz_GPRS_850MHz_MidCH190-836.6

3GHz~10GHz_GPRS_850MHz_HighCH251-848.8



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30MHz~3GHz_EDGE_850MHz_LowCH128-824.2

3GHz~10GHz_EDGE_850MHz_MidCH190-836.6

30MHz~3GHz_EDGE_850MHz_HighCH251-848.8



3GHz~10GHz_EDGE_850MHz_LowCH128-824.2

Avg Type: Log-Pw Ava Type: Loc 0000 GHz 0000 GHz Trig: Free Run Trig: Free Run Auto Tur Auto Tun Ref Offset 13.6 dB Ref 40.00 dBm Ref Offset 13.6 dE Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre ♦³ Stop Fre Stop Fre Stop 10.000 GH rt 3.000 GHz CF Step rt 0.030 GHz Stop 3.00 2.000 ms (100 CF Step 4.078 G 21.35 31.12 d -26.99 d -25.18 d 849.7 1.697 6 2.646 4 Freq Offs Freq Offs Тур Scale Type L 1.1

30MHz~3GHz_EDGE_850MHz_MidCH190-836.6

3GHz~10GHz_EDGE_850MHz_HighCH251-848.8



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30MHz~3GHz_GPRS_1900MHz_LowCH512-1850.2

3GHz~10GHz_GPRS_1900MHz_MidCH661-1880

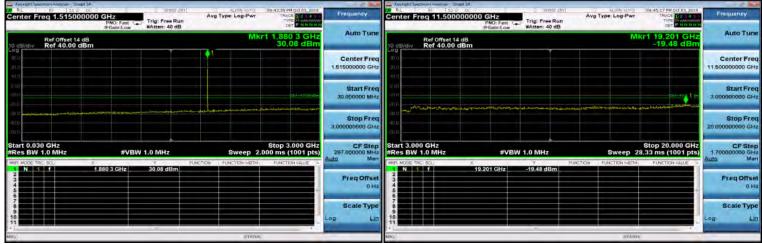
			RL R/ 50 G	Contral Inc.				Al 5h G DC
Frequency	Aug Type: Log-Pwr TRACE TO COLUMN		Center Freq 11.50000	Frequency	06:41:25 PM Oct 03, 2014 TRACE 1 2 3 4 5 T TYPE PARAMETER OFT P NIN MOUNT	Avg Type: Log-Pwr	Trig: Free Run #Atten: 40 dB	Freq 1.515000000 GHz PNO: Fast Configuration
Auto Tune	Mkr1 19.218 GHz -19.72 dBm	dB IBm	10 dB/div Ref 0ffset 14 d	Auto Tune	1 1,850 6 GHz 29,97 dBm	Mk		Ref Offset 14 dB Ref 40.00 dBm
Center Fred 11.500000000 GH				Center Freq 1.515000000 GHz				
Start Freq 3 000000000 GHz		gan an a	-10.0	Start Freq 30.000000 MHz	5k/~1550a3m			
Stop Fred 20 000000000 GH/			30.0	Stop Freq 3.000000000 GHz		and the second	واللفار والياري فمستجمع واليروسي	
CF Step 1,70000000 GH	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz	CF Step 297,800000 MHz Auto Man	Stop 3.000 GHz 000 ms (1001 pts)	Sweep 2.	V 1.0 MHz	030 GHz W 1.0 MHz #VBW
Freq Offset 0 Hz	-	19.218 GHz -19.72 dBm	1 N 1 T 2 3 4 4 5	Freq Offset 0 Hz			29.97 dBm	1 1 1,850 6 GHz
Scale Type			6 7 8 9 10 11	Scale Type				
	STATUS		* CEM			STÁTUS		

3GHz~10GHz_GPRS_1900MHz_LowCH512-1850.2

30MHz~3GHz_GPRS_1900MHz_HighCH810-1909.8 Ava Type: Lo Avg Type: Lo 0000 GHz 00000 GHz Trig: Free Run Trig: Free Run Auto Tur Auto Tur Ref Offset 14 dB Ref 40.00 dBm Ref Offset 14 dB Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre Stop Fre Stop Fre Stop 20.000 G rt 3.000 GHz CF Step rt 0.030 GHz s BW 1.0 MH Stop 3.000 G CF Step 19.286 GH 1.910 0 0 Freq Offse Freq Offs Тур Scale Type L 1.1

30MHz~3GHz_GPRS_1900MHz_MidCH661-1880

3GHz~10GHz_GPRS_1900MHz_HighCH810-1909.8



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30MHz~3GHz_EDGE_1900MHz_LowCH512-1850.2

3GHz~10GHz_EDGE_1900MHz_MidCH661-1880

		apt SA	Reginght Spectrum Anunyter - She R.L. N. 50 G	- 1 al -				All Sharebeing Analyzer - Stylapt SA
Frequency	AUGV-BUTO (06:52:25 PM Oct 03, 2514 Avg Type: Log-Pwr Trive: D 2 of Trive Oct P 2000		Center Freq 11.5000	Frequency	TRACE 1 2 3 4 3 1 TRACE 1 2 3 4 3 1 TYPE IN WARKING	Avg Type: Log-Pwr	Trig: Free Run #Atten: 40 dB	ter Freq 1.515000000 GHz PNO: Fast IFGain:Low
Auto Tune	Mkr1 18.844 GHz -19.64 dBm	dB IBm	Ref Offset 14 10 dB/div Ref 40.00 d	Auto Tune	1 1,850 6 GHz 29,95 dBm	Mk		Ref Offset 14 dB B/div Ref 40.00 dBm
Center Fred 11.500000000 GH:				Center Freq 1.515000000 GHz				
Start Fred 3.000000000 GHz	and a 1 instan		-10.0	Start Freq 30.000000 MHz	Ski-isgoane			
Stop Freq 20 000000000 GHz	كالألقة حقاقة	a a de la construcción de la constr La construcción de la construcción d	-30.0 -16 n	Stop Freq 3.000000000 GHz		nini siyatan din amani ini safah mini ini ana	N	ال 1996 من المراجعة المراجعة المراجعة المراجعة من المراجعة المراجعة المراجعة المراجعة المراجعة المراجعة المراجع
CF Step 1,70000000 GHJ Auto Man	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz	CF Step 297.000000 MHz Auto Man	Stop 3.000 GHz 000 ms (1001 pts)	Sweep 2.	V 1.0 MHz	t 0.030 GHz s BW 1.0 MHz #VBW
Freq Offset 0 Hz		18.844 GHz -19.64 dBm	1 N 1 T 2 3 4 4 5	Freq Offset 0 Hz	_		29.95 dBm	N 1 7 1.850 6 GHz
Scale Type			7 8 9 10 11	Scale Type				
	STATUS		* NBO			státús		

3GHz~10GHz_EDGE_1900MHz_LowCH512-1850.2

30MHz~3GHz_EDGE_1900MHz_HighCH810-1909.8 Avg Type: Lo Avg Type: Lo 00000 GHz 000000 GHz Trig: Free Ru Trig: Free Ru Auto Tur Auto Tur Ref Offset 14 dB Ref 40.00 dBm Ref Offset 14 dB Ref 40.00 dBm Center Fre Center Fre 000000 GI Start Fre Start Fre Stop Fre Stop Fr Stop 20.000 (28.33 ms (1001 rt 3.000 GHz CF Step es BW 1.0 MH Stop 3.000 G 2.000 ms (1001 p CF Ste #VBW 1.0 P #VBW 1.0 M 19.235 G 1.910 0 0 Freq Offs Freq Off Тур тур

30MHz~3GHz_EDGE_1900MHz_MidCH661-1880

3GHz~10GHz_EDGE_1900MHz_HighCH810-1909.8

Corjunght Spectrum Anulyzer - Shapt SA		Consight Spectrum Analyzer - Skept SA	
Center Freq 1.515000000 CHz PROF test	Frequency	Center Freq 11.500000000 GHz PROFest Conter Freq 11.50000000 GHz PROFest Conter Free Run Ficial Local Ave Type: Log-Pwr Ficial Local Ave Type: Log-Pwr Ficial Local Ave Type: Log Pwr Ficial Local Ave Type: Local Ave T	Frequency
Ref Offset 14 dB Mkr1 1,880 3 GHz 10 dB/div Ref 40.00 dBm 28.86 dBm	Auto Tune	Ref Offset 14 dB Mkr1 19.150 GHz	Auto Tuni
	Center Freq 1.515000000 GHz		Center Free 11.500000000 GH
1/20 	Start Freq 30.000000 MHz		Start Free 3.000000000 GH
20.0 Solution of the state o	Stop Freq 3.00000000 GHz		Stop Fre 20 00000000 GH
Start 0.030 CHz Stop 3.000 CHz #Res B0M 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (1001 pts) M0R M0DE TRC SCL X Y FUnction w0TH FUNCTION W0TH 1 1 1.880 3 GHz 28.96 dBm FUNCTION W0TH FUNCTION W0TH	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) More Thick Scul X Y Punction Function Function N T 19.150 GHz -19.91 dBm -19.191 dBm -10.010 Function Functi	CF Ste 1,70000000 GH wto Ma
	Freq Offset 0 Hz		Freq Offse 0 H
	Scale Type		Scale Type
eo) etátus		crAtus	

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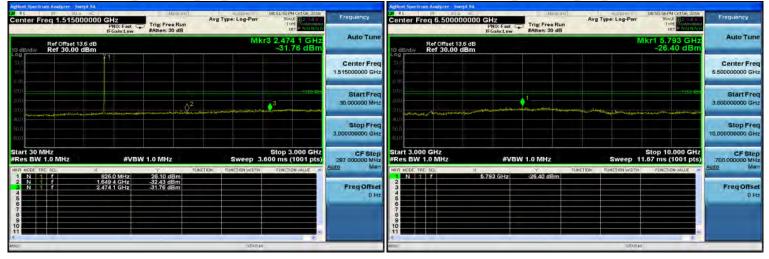
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30MHz~3GHz_CDMA2000_BC0_LowCH1013-824.7

3GHz~10GHz_CDMA2000_BC0_MidCH384-836.52

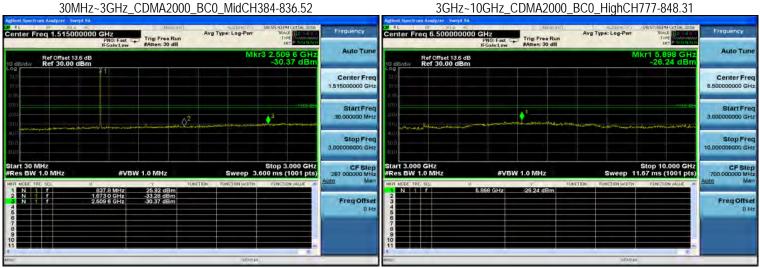


3GHz~10GHz CDMA2000 BC0 LowCH1013-824.7

Frequency enter Freq 1.515000000 GHz Avg Type: Log-Pu Frequency er Freg 6.5000 00000 GHz Avg Type: Log-F Trig: Free Run Trig: Free Run Auto Tur Auto Tur Ref Offset 13.6 dB Ref 30.00 dBm Ref Offset 13.6 dB Ref 30.00 dBm Center Free Center Freq 1.515000000 GH StartFre Start Free 3.000000000 GH 30.000000 Mi •3 Stop Fre Stop Fre CF Step Stop 10.00 CF Step WRW 10 MH 700.00 297.00 26.02 d 32.69 d 30.35 d 849.7 MHz 1.696 6 GHz 2.544 9 GHz FregOffse FreqOffs DH DF

30MHz~3GHz_CDMA2000_BC0_MidCH384-836.52

30MHz~3GHz_CDMA2000_BC0_HighCH777-848.31



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30MHz~3GHz_EVDO_BC0_LowCH1013-824.7

3GHz~10GHz_EVDO_BC0_MidCH384-836.52

30MHz~3GHz_EVDO_BC0_HighCH777-848.31



3GHz~10GHz_EVDO_BC0_LowCH1013-824.7

nter Freq 6.500000000 GHz Frequency Avg Type: Log-Pu Frequency Avg Type: Log-P enter Freq 1.515000000 GHz Trig: Free Run Trig: Free Rus Auto Tur Auto Tur 26.94 dE Ref Offset 13.6 dB Ref 30.00 dBm Ref Offset 13.6 dB Ref 30.00 dBm 30.19 d Center Free Center Freq 1.515000000 GH StartFre Start Free 3.000000000 GH 30.000000 Mi Stop Fre Stop Fre CF Step Stop 10.00 CF Step BW 10 MH 700.00 BM 10 MH 297.00 849.7 MHz 1.696 6 GHz 2.544 9 GHz 26.30 d -33.43 d -30.19 d FregOffse FreqOffs DH DF

30MHz~3GHz_EVDO_BC0_MidCH384-836.52

3GHz~10GHz_EVDO_BC0_HighCH777-848.31



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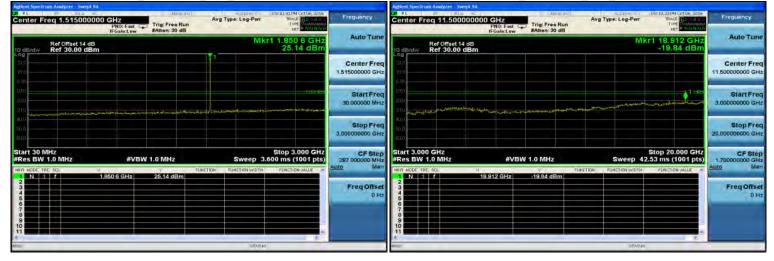
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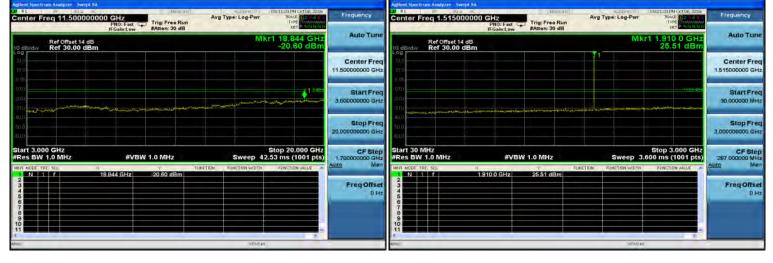
30MHz~3GHz_CDMA2000_BC1_LowCH25-1851.3

3GHz~10GHz_CDMA2000_BC1_MidCH600-1880



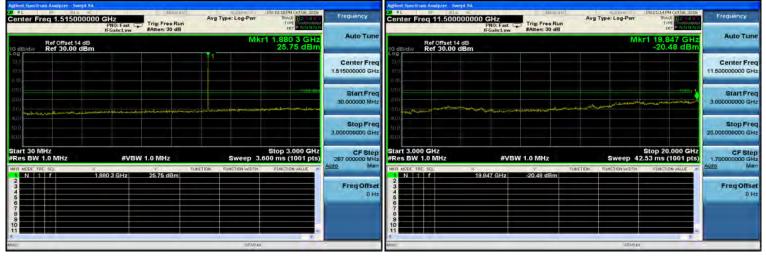
3GHz~10GHz_CDMA2000_BC1_LowCH25-1851.3

30MHz~3GHz_CDMA2000_BC1_HighCH1175-1908.8



30MHz~3GHz_CDMA2000_BC1_MidCH600-1880

3GHz~10GHz_CDMA2000_BC1_HighCH1175-1908.8



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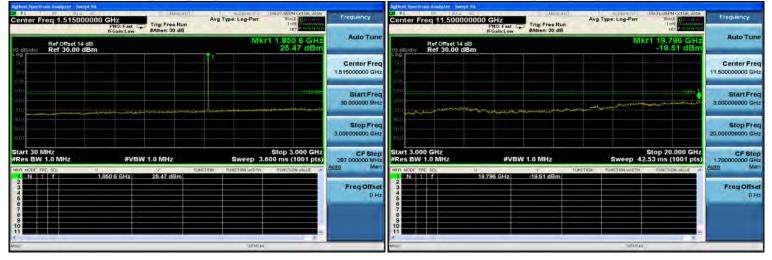
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台灣檢驗科技股份有限公司
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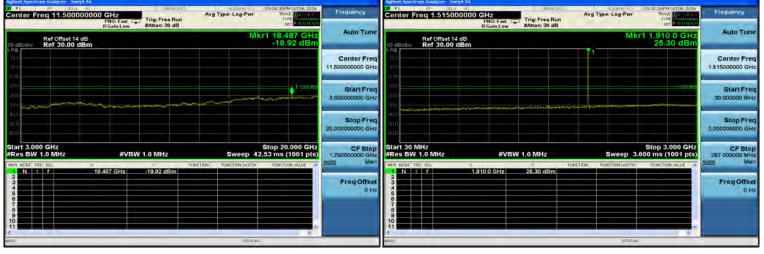
30MHz~3GHz_EVDO_BC1_LowCH25-1851.3

3GHz~10GHz_EVDO_BC1_MidCH600-1880



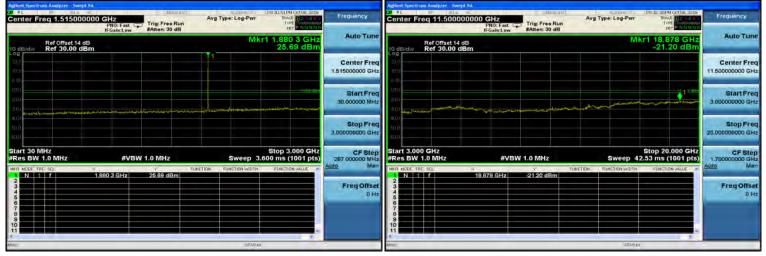
3GHz~10GHz_EVDO_BC1_LowCH25-1851.3

30MHz~3GHz_EVDO_BC1_HighCH1175-1908.8



30MHz~3GHz_EVDO_BC1_MidCH600-1880

3GHz~10GHz_EVDO_BC1_HighCH1175-1908.8



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30MHz~3GHz_WCDMA_B5_LowCH4132-826.4

3GHz~10GHz_WCDMA_B5_MidCH4183-836.6

Consider Section Analyse - Shapt SA Section 200 RL AF SEC DC Section 200 RL AF SECTION AUTO (05:12:03 PM O	41.03.2014	Knytecht Spectoum Anwayze - Skript SA	201 m ²
Center Freq 1.515000000 GHz Avg Type: Log-Pwr TRACE	Paintan Frequency	Center Freq 6.500000000 GHz Trig: Free Run Trig: Stree Run Trig: Stree Run Compared to the Compared Street Addition Trig: Street Addition Compared Street Additional Street Addition Compared Street	Frequency Auto Tune
Ref Offset 13.6 dB Mkr3 2,479 1	2 GHz Auto Tune I dBm	Ref Offset 13.6 dB Mkr1 4.043 GHz	
	Center Freq 1.515000000 GHz		Center Freq 500000000 GHz
	Start Freq 30,000000 MHz		Start Freq
20 0 metalenen internet metalenen internetienen internetiene	Stop Freq 3,00000000 GHz		Stop Freq
Start 0.030 GHz Stop 3.0 #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (10 ms (10 ms more first start)) Bit MOD First Stol X P Bit Town Fluction with Have town	01 pts) 297,000000 MHz Auto Man	Start 3.000 GHz Stop 10.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 11.67 ms (1001 pts) wms mote First Sci. x Plantfoll Function	CF Step 700.000000 MHz to Man
1 N 1 f 8289 MHz 24.03.dBm 2 N 1 f 1.662 8 GHz -28.60 dBm 3 N 1 f 2.479 2 GHz -28.60 dBm 4 5	Freq Offset 0 Hz	1 N T T 4.043 GHz -21.31 dBm	Freq Offset 0 Hz
	Scale Type	6 7 8 9 10	Scale Type
NIS) STÁTUS		III IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	

3GHz~10GHz_WCDMA_B5_LowCH4132-826.4

Avg Type: Log-Pw Ava Type: La 000 GHz 0000 GHz Trig: Free Run Trig: Free Ru Auto Tur Auto Tur Ref Offset 13.6 dB Ref 40.00 dBm Ref Offset 13.6 dB Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre ♦3 Stop Fre Stop Fre Stop 10.000 GH: 11.67 ms (1001 pts rt 3.000 GHz CF Step rt 0.030 GHz Stop 3.00 2.000 ms (100 CF Step 4.106 G 846.8 M 24.38 di -27.11 di -25.57 di Freq Offs Freq Offs Тур Scale Type L 1.1

30MHz~3GHz_WCDMA_B5_MidCH4183-836.6

3GHz~10GHz_WCDMA_B5_HighCH4233-846.6

30MHz~3GHz_WCDMA_B5_HighCH4233-846.6



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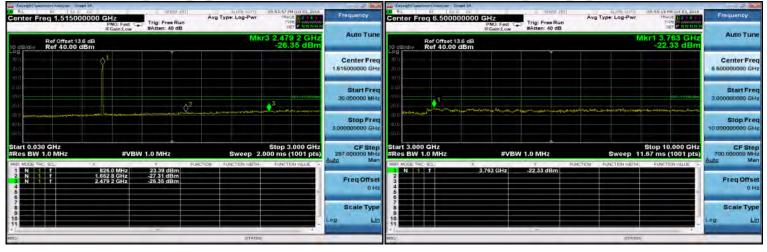
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30MHz~3GHz_HSDPA_B5_LowCH4132-826.4

3GHz~10GHz_HSDPA_B5_MidCH4183-836.6



3GHz~10GHz_HSDPA_B5_LowCH4132-826.4

30MHz~3GHz_HSDPA_B5_HighCH4233-846.6 Avg Type: Log-Pw Ava Type: Log 000 GHz Trig: Free Ru 00 GHz Trig: Free Run Auto Tur Auto Tun Ref Offset 13.6 dB Ref 40.00 dBm Ref Offset 13.6 dE Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre ♦³ Stop Fre Stop Fre Stop 10.000 GH: 11.67 ms (1001 pts rt 3.000 GHz CF Step 0.030 GHz BW 1.0 MH Stop 3.00 2.000 ms (100 CF Step 846.8 1.693.2 2.639.8 23,81 c -28,55 c Freq Offs Freq Offs Тур Scale Type L 1.1

30MHz~3GHz_HSDPA_B5_MidCH4183-836.6

3GHz~10GHz_HSDPA_B5_HighCH4233-846.6



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30MHz~3GHz_HSUPA_B5_LowCH4132-826.4

3GHz~10GHz_HSUPA_B5_MidCH4183-836.6

30MHz~3GHz_HSUPA_B5_HighCH4233-846.6

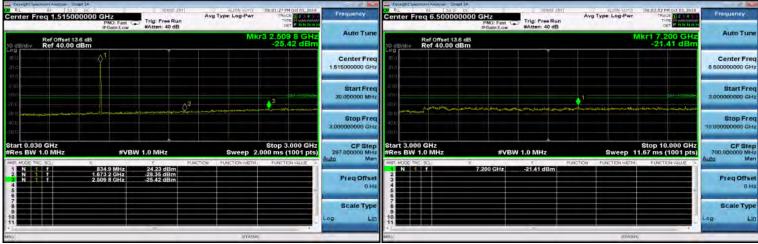
Kwywight Spactners Analyzer - Skapt SA.					Keyeight Spectrum Analyzer - Skept SA				21.20
Center Freg 1.515000000	CHZ PN0: Fest Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr	TRACE	Frequency	Center Freq 5.500000000 G	SH2 PNO: Fast C Trig: Free Run #Atten: 40 dB	Avg Type: Log-Pwr	0:01:41 PM Oct 03, 2014 TRACE 1 2 3 4 3 1 TYPE PLOMANNAN OET P NRV MARK	Frequency
10 dB/div Ref 0ffset 13.6 dB Ref 40.00 dBm		Mkr3	2.479 2 GHz -25.43 dBm	Auto Tune	Ref Offset 13.6 dB		Mk	1 4.071 GHz -20.73 dBm	Auto Tune
300 310	¢1			Center Freq 1.515000000 GHz	300 310				Center Freq 6 50000000 GHz
1110) -1000	02		3	Start Freq 30,000000 MHz		مرار بر بر بر اور بر اور اور است. مراجع اور بر بر بر اور اور است.		phistonian	Start Freq 3.000000000 GHz
400	Nan napat na ana ana ka sa na na na ana ana ana ana ana ana an			Stop Freq 3,00000000 GHz	SD D and the state of the state				Stop Fred 10.000000000 GH
Start 0.030 GHz #Res BW 1.0 MHz		Sweep 2.00	Stop 3.000 GHz 0 ms (1001 pts) FUNCTION VALUE	CF Step 297.000000 MHz Auto Man	Start 3.000 GHz #Res BW 1.0 MHz		Sweep 11.6	top 10.000 GHz 7 ms (1001 pts)	CF Step 700.000000 MH
2 N 1 T 1.6	826.0 MHz 22.88 dBm 662.8 GHz -28.36 dBm 479.2 GHz -25.43 dBm		-	Freq Offset 0 Hz	1 N 1 7 4) 2 3 4 5	071 GHz -20,73 dBm		_	Freq Offset 0 Hz
7 8 9 10 11				Scale Type	7 8 9 9 10				Scale Type
MIRS .		STATUS			Ma2		státus		

3GHz~10GHz_HSUPA_B5_LowCH4132-826.4

Avg Type: Log-Pw Ava Type: Lo 000 GHz Trig: Free Ru 000 GHz Trig: Free Run Auto Tur Auto Tur Ref Offset 13.6 dB Ref 40.00 dBm Ref Offset 13.6 dB Ref 40.00 dBm Center Fre Center Fre 15000000 GI Start Fre Start Fre ♦³ Stop Fre Stop Fre Stop 10.000 GH: 11.67 ms (1001 pts rt 3.000 GHz CF Step rt 0.030 GHz Stop 3.00 2.000 ms (100 CF Step #VBW 1.0 MH 3.784 G 21.38 846.8 M 1.693 2 G 2.539 R G 24.30 di 28.21 di 25.55 di Freq Offs Freq Offs Тур Scale Type L 1.1

30MHz~3GHz_HSUPA_B5_MidCH4183-836.6

3GHz~10GHz_HSUPA_B5_HighCH4233-846.6



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30MHz~3GHz_WCDMA_B4_LowCH1312-1712.4

3GHz~10GHz_WCDMA_B4_MidCH1413-1732.6

			Constitution of the second sec				- Key eight Spectrelm Anunyter - Swept SP
Frequency	Avg Type: Log-Pwr TRACE TO AND OF DATA	11.500000000 GH2 PN0: Fast	Frequency Center Fre	D7:24:36 PM Oct 83, 2514 TRACE 1 2 3 4 5 1 TYPE PA WARNING OFT P N IN N IN N	Avg Type: Log-Pwr	PNO: Fest IFGain:Low #Atten: 40 dB	Center Freq 1.5150000
Auto Tune	Mkr3 5,198 GHz -24.70 dBm	ef Offset 14 dB ef 40.00 dBm	Auto Tune	(r1 1.714 0 GHz 23.71 dBm	Mk		Ref Offset 14 dB
Center Freq 11.50000000 GHz			Center Freq 200 1.515000000 GHz 210				300 310
Start Freq 3.000000000 GHz		and a state of the	Start Freq 340 30.000000 MHz 500	phi-termine.			1(10) -000 -000
Stop Fred 20.000000000 GH/			3.000000000 GHz		a lander to a second	an ya ka na ka na ka	-30 0 (0) -40(0) -50 0
	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	MHz #VBW 1.0 MHz	CF Step 297.000000 MHz Auto Man	Stop 3.000 GHz .000 ms (1001 pts)		#VBW 1.0 MHz	Start 0.030 GHz #Res BW 1.0 MHz
Freq Offset	FUNCTION FUNCTION WIGTH FUNCTION VALUE	t 19.303 GHz -20.58 dBm t 3.465 GHz -27.49 dBm	Freq Offset 0 Hz	FUNCTION VALUE	FUNCTION (FUNCTION WIDTH)	.714 0 GHz 23.71 dBm	MKR MODE TRC SCL 1 N 1 1 2 3 4 5
Scale Type			Scale Type 8 10 Log Lin 11				6 7 8 9 9 10 11
-	rtátus		*		STÁTUS		NBO .

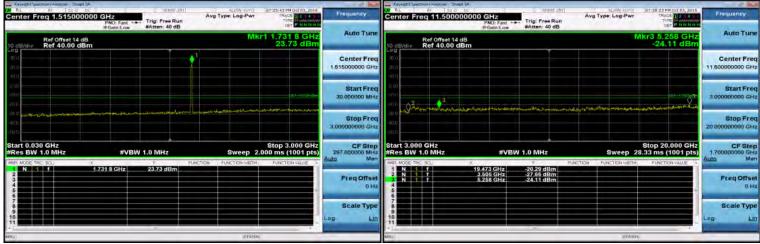
3GHz~10GHz_WCDMA_B4_LowCH1312-1712.4

30MHz~3GHz_WCDMA_B4_HighCH1513-1752.6

Caryinght Spectrum Anulyzer - Swapt SA		Connection Annual Section Annual Section 2015	100 M 100
Mile No Sold States and Trig: Free Run #Gain(b) Avg Type: Log-Pwr Trig: Free Run #Atter: 40 dB Trig: Free Run Ref Run Run Ref Run Run	Frequency	Center Freq 1.515000000 GHz Ph0: Fast → Trig: Free Run Avg Type: Log-Pwr Trisc Pres Trisce Pres Tris	Frequency Auto Tune
Ref Offset 14 dB Mkr3 5.137 GHz	Auto Tune	Ref Offset 14 dB Mkr1 1.752 6 GHz 10 dB/div Ref 40.00 dBm 23.47 dBm	
	Center Freq 11.500000000 GHz		Center Freq 1.515000000 GHz
μα μπα ματ	Start Freq 3,000000000 GHz	2 20	Start Freq 30.000000 MHz
	Stop Freq 20.000000000 GHz		Stop Freq 3.000000000 GHz
Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 pts) Mire MoDE TRC SQL x Y Function in Function width Function width	CF Step 1.70000000 GHz Auto Man	Start 0.030 GHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (1001 pts) MRR MODE TRC: SCL X Y FUNCTION INTHININGH, FUNCTION VALUE -	CF Step 297,000000 MHz to Man
1 N 1 f 19201 GHz -2015 dBm 2 N 1 f 3.425 GHz -28.05 dBm 3 N 1 f 5.137 GHz -25.23 dBm 4 5 - - - -	Freq Offset 0 Hz	1 N 1 f 1.752 5 GHz 23.47 dBm	Freq Offset 0 Hz
	Scale Type	6 7 7 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	Scale Type
aujars (cen		reo status	

30MHz~3GHz_WCDMA_B4_MidCH1413-1732.6

3GHz~10GHz_WCDMA_B4_HighCH1513-1752.6



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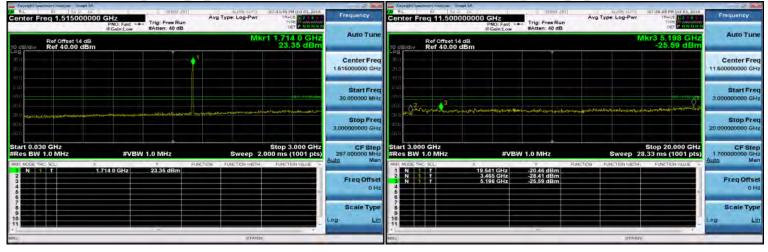
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30MHz~3GHz_HSDPA_B4_LowCH1312-1712.4

3GHz~10GHz_HSDPA_B4_MidCH1413-1732.6

30MHz~3GHz_HSDPA_B4_HighCH1513-1752.6

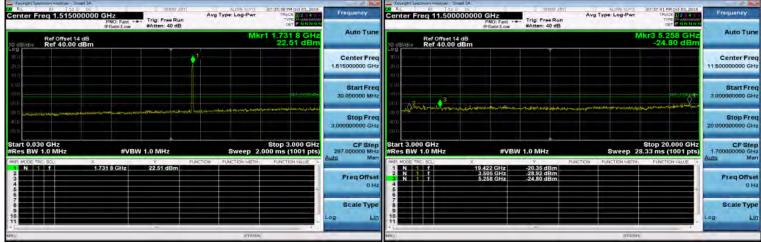


3GHz~10GHz_HSDPA_B4_LowCH1312-1712.4

Avg Type: Log-Pw Avg Type: Log 00000 GHz 0 11 5 Trig: Free Run 1 1 5 1 5 0000 GHz Trig: Free Run Auto Tur Auto Tun Ref Offset 14 dB Ref 40.00 dBn Ref Offset 14 dB Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre Stop Fre Stop Fre Stop 20.000 G 28.33 ms (1001 c 3.000 GHz BW 1.0 M CF Step 0.030 GHz BW 1.0 MH Stop 3.000 G CF Step 1.752 6 G 8.861 G 3.425 G 5.137 G 19.60 (29.39 (Freq Offse Freq Offs Тур Scale Type Ł 1.1

30MHz~3GHz_HSDPA_B4_MidCH1413-1732.6

3GHz~10GHz_HSDPA_B4_HighCH1513-1752.6



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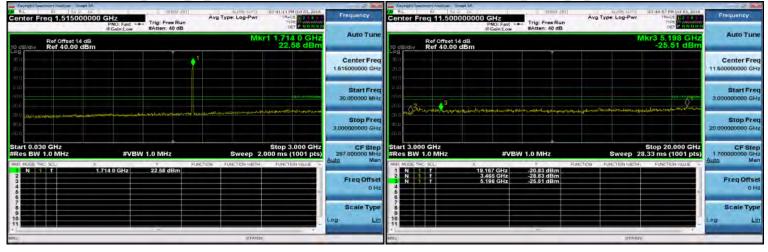
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30MHz~3GHz_HSUPA_B4_LowCH1312-1712.4

3GHz~10GHz_HSUPA_B4_MidCH1413-1732.6

30MHz~3GHz_HSUPA_B4_HighCH1513-1752.6



3GHz~10GHz_HSUPA_B4_LowCH1312-1712.4

Avg Type: Log-Pw Ava Type: Loc 0000 GHz 0 11 5 Trig Free Run 1 1 5 1 5 0000 GHz Trig: Free Run Auto Tur Auto Tun Ref Offset 14 dB Ref 40.00 dBn Ref Offset 14 dB Ref 40.00 dBm Center Fre Center Fre Start Fre Start Fre Stop Fre Stop Fre Stop 20.000 G rt 3.000 GHz CF Step 0.030 GHz BW 1.0 MH Stop 3.000 G CF Step 1.752 6 G 22.75 9.354 GHz 3.425 GHz 5.137 GHz -19-90 d -28.14 d -25.88 d Freq Offse Freq Offs Тур Scale Type Ł 1.1

30MHz~3GHz_HSUPA_B4_MidCH1413-1732.6

3GHz~10GHz_HSUPA_B4_HighCH1513-1752.6



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30MHz~3GHz_WCDMA_B2_LowCH9262-1852.4

3GHz~10GHz_WCDMA_B2_MidCH9400-1880

200			Key right Spectrom Anunyzer - Silver				Keyeight Spectrum Anunyter - Strept SA
Frequency Auto Tune	Auroly BUPO (87:03:15 PM oct 03, 2514 Avg Type: Log-Pwr TRACE 1 2014 Type: Log-Pwr Det 03, 2514		Center Freq 11.5000	Frequency	vg Type: Log-Pwr TRADE DEP Proventies DEP Proventies		Center Freq 1.51500000
	Mkr1 19.252 GHz -20.10 dBm	dB IBm	Ref Offset 14 10 dB/div Ref 40.00 d	Auto Tune	Mkr1 1,853 6 GHz 23.22 dBm		Ref Offset 14 dB
Center Fred 11,500000000 GHz				Center Freq 1.515000000 GHz			300 310
Start Freq 3.000000000 GHz	and the second sec		-10.0	Start Freq 30,000000 MHz	ph/-topo.any		1/10)
Stop Freq 20.000000000 GHz			30.0	Stop Freq 3,000000000 GHz	an an an Anna a	and you have a fair of the second	30.0 (1000)
CF Step 1,700000000 GHU Auto Mar	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz	CF Step 297.000000 MHz Auto Man	Stop 3.000 GHz Sweep 2.000 ms (1001 pts)	#VBW 1.0 MHz	Start 0.030 GHz #Res BW 1.0 MHz
Freq Offset 0 Hz		19.252 GHz -20.10 dBm	1 N 1 f 2 3 4 5	Freq Offset 0 Hz		1.853 6 GHz 23.22 dBm	1 N 1 7 2 3 4 5
Scale Type			6 8 9 10 11	Scale Type			6 7 8 9 10 11
	STÁTUS	-	• WBG		státus	-	MBO

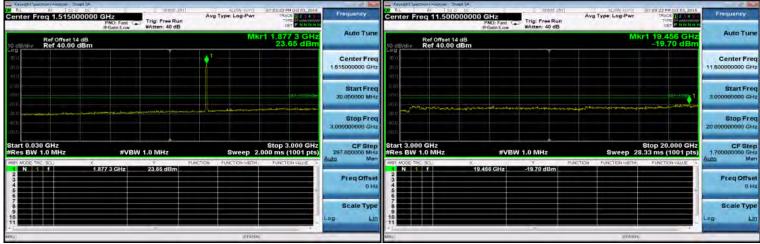
3GHz~10GHz_WCDMA_B2_LowCH9262-1852.4

30MHz~3GHz_WCDMA_B2_HighCH9538-1907.6

Conter Freq 11.500000000 GHz State Sta	Frequency	Conter Freq 1.515000000 GHz State of the Sta	Frequency
Ref Offset 14 dB Ref 0 dB/div Ref 40.00 dBm -19.35 dBm	Auto Tune	Ref Offset 14 dB Mkr1 1.907 0 GHz 10 dB/div Ref 40.00 dBm 23.56 dBm	Auto Tune
	Center Freq 11.500000000 GHz		Center Freq 1.515000000 GHz
1930 	Start Freq 3.000000000 GHz	200 200 200	Start Freq 30.000000 MHz
200 20	Stop Freq 20.000000000 GHz	300 university of the second s	Stop Freq 3.00000000 GHz
Start 3.000 GHz Stop 20.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 28.33 ms (1001 ptc) wms note First \$2.33 ms (1001 ptc) \$2.33 ms (1001 ptc)	CF Step 1.70000000 GHz Auto Man	Start 0.030 GHz Stop 3.000 GHz #Res BW 1.0 MHz #VBW 1.0 MHz Sweep 2.000 ms (1001 pts) were note the Sol x Function Function	CF Step 297.000000 MHz Auto Man
1 N T F	Freq Offset 0 Hz	1 N 1 T 1907.0 GHz 23.66 dBm 2 3 3 4 5	Freq Offset 0 Hz
	Scale Type	8 7 8 9 9 10	Scale Type
1953 STATUS		IBS. ETATUS	

30MHz~3GHz_WCDMA_B2_MidCH9400-1880

3GHz~10GHz_WCDMA_B2_HighCH9538-1907.6



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30MHz~3GHz_HSDPA_B2_LowCH9262-1852.4

3GHz~10GHz_HSDPA_B2_MidCH9400-1880

	NLIGH BUTO 07-17-50 PM 0d 83, 2014		Corporati Spactouri Analyter - Strat	21 at 12	07:15:49 PM Oct 83, 2016	ortie 401.4	TWL USING C	RL AV SD C DC
Frequency Auto Tune	Avg Type: Log-Pwr TRACE DIS 4 THE DISCOVER		Center Freq 11.5000	Frequency	TRADE 1 2 2 4 1 1 TRADE 1 2 2 4 1 1 TIPE DI VARIANTI	Avg Type: Log-Pwr		Center Freq 1.515000000
	Mkr1 18.946 GHz -20.42 dBm	dBm	Ref Offset 14 10 dB/div Ref 40.00 d	Auto Tune	1 1,853 6 GHz 22,64 dBm	Mkr		10 dB/div Ref 0ffset 14 dB Ref 40.00 dBm
Center Fred 11.500000000 GHz				Center Freq 1.515000000 GHz		• ¹		200 200
Start Freq 3.000000000 GHz	Did-y 1 min	يىرى مۇنىيە ۋە يەتىرىمە يەرىيە بىلەر يەتىرىمە يەرىيە يەتىرىنى بىل	-10.0	Start Freq 30.000000 MHz	Dbf-1500.db r			110)
Stop Freq 20 000000000 GHz			-10 D	Stop Freq 3,000000000 GHz		waren de la canto ante ante ante ante ante ante ante ante	a han a san a s	30.0 (African a right and because and beca
CF Step 1.70000000 GHu Auto Man	Stop 20.000 GHz Sweep 28.33 ms (1001 pts)	#VBW 1.0 MHz	Start 3.000 GHz #Res BW 1.0 MHz	CF Step 297.000000 MHz Man	Stop 3.000 GHz 000 ms (1001 pts)	Sweep 2.0	#VBW 1.0 MHz	Start 0.030 GHz #Res BW 1.0 MHz
Freq Offset 0 Hz		18.945 GHz -20.42 dBm	1 N 1 f 2 3 4 5	Freq Offset 0 Hz			6 GHz 22.64 dBm	1 N 1 f 1. 2 3 4 5
Scale Type			6 7 8 9 9 10 11	Scale Type				6 7 8 9 10 11
_	STATUS	-	+ MBQ			státus	-	MBQ

3GHz~10GHz_HSDPA_B2_LowCH9262-1852.4

Ava Type: Los 000 GHz Avg Type: Lo 0000 GHz Trig: Free Run Trig: Free Run Auto Tur Auto Tur Ref Offset 14 dB Ref 40.00 dBm Ref Offset 14 dB Ref 40.00 dBm Center Fre ٠ Center Fre 15000000 GI Start Fre Start Fre Stop Fre Stop Fre Stop 20.000 GH 28.33 ms (1001 pt rt 3.000 GHz CF Step rt 0.030 GHz s BW 1.0 MH Stop 3.000 G 2.000 ms (1001 p CF Step 19.269 GH 1.907 0 0 -19.74 Freq Offse Freq Offs Тур Scale Type L 1.1

30MHz~3GHz_HSDPA_B2_MidCH9400-1880

3GHz~10GHz_HSDPA_B2_HighCH9538-1907.6

30MHz~3GHz_HSDPA_B2_HighCH9538-1907.6



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