

Figure 7: Conducted Spurious Emissions at Antenna Terminals, Uplink.

	5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704	Antenna Conducted Spurious	
DNR Job Number:	58129	Date: 8 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Uplink – CDMA – Hi Channel – 848.3 MHz		

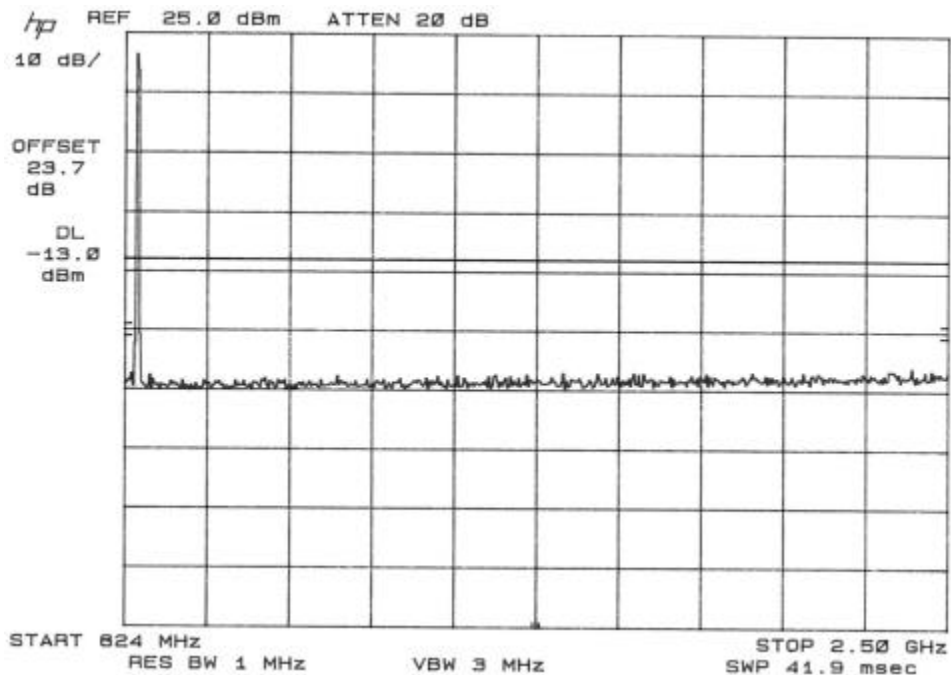
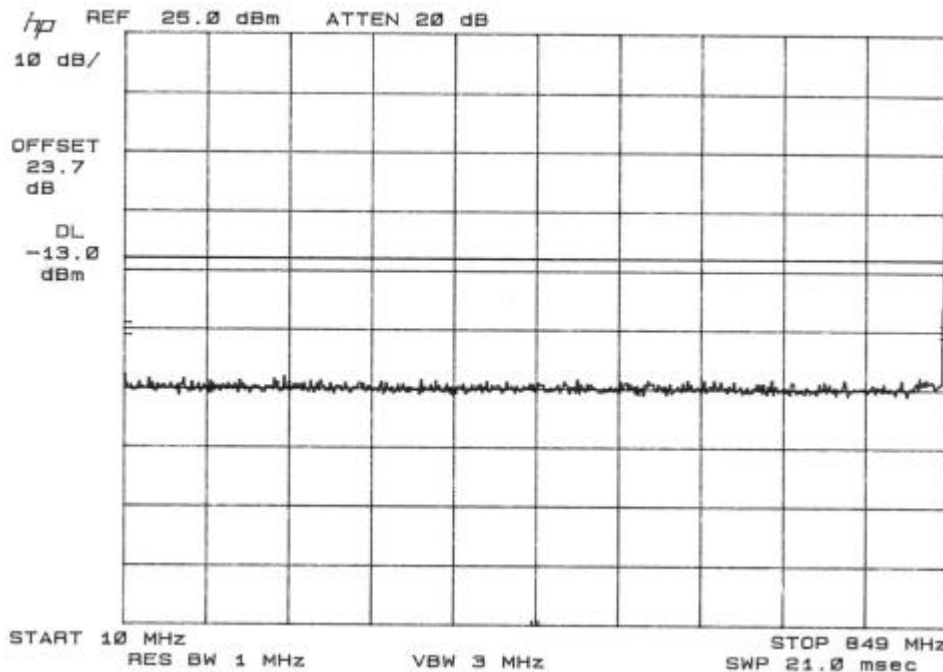


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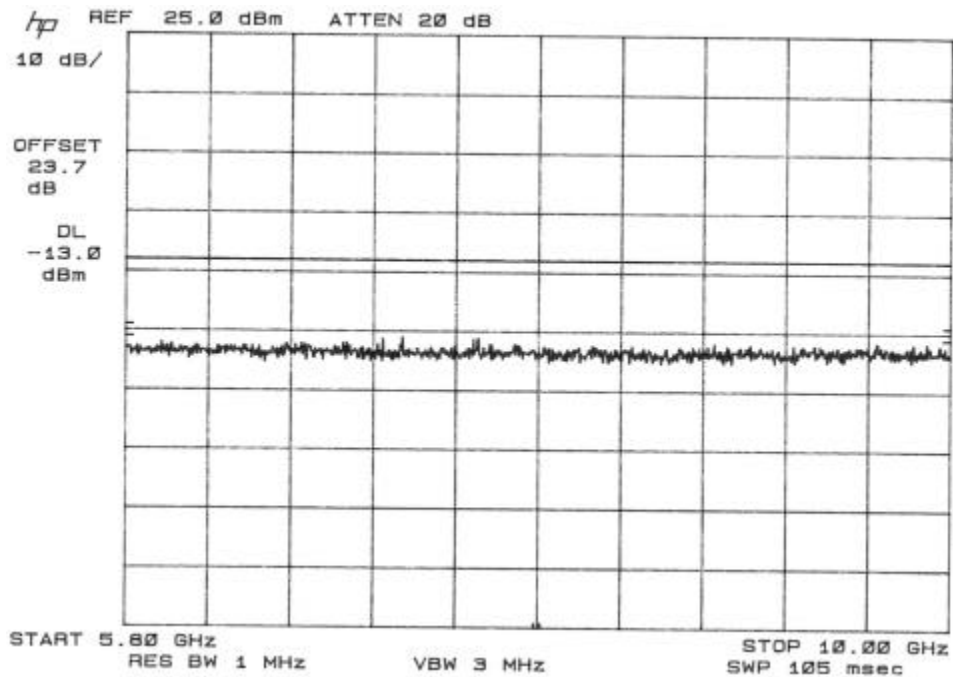
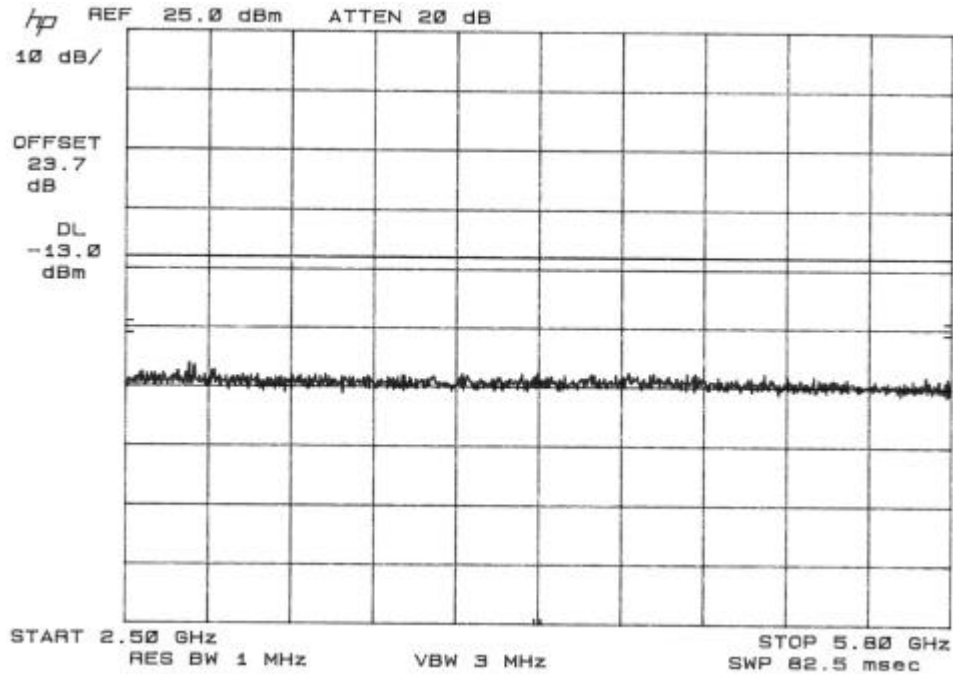


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DNB Job Number:	58129	Date: 7 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Lo Channel – 869.2 MHz		

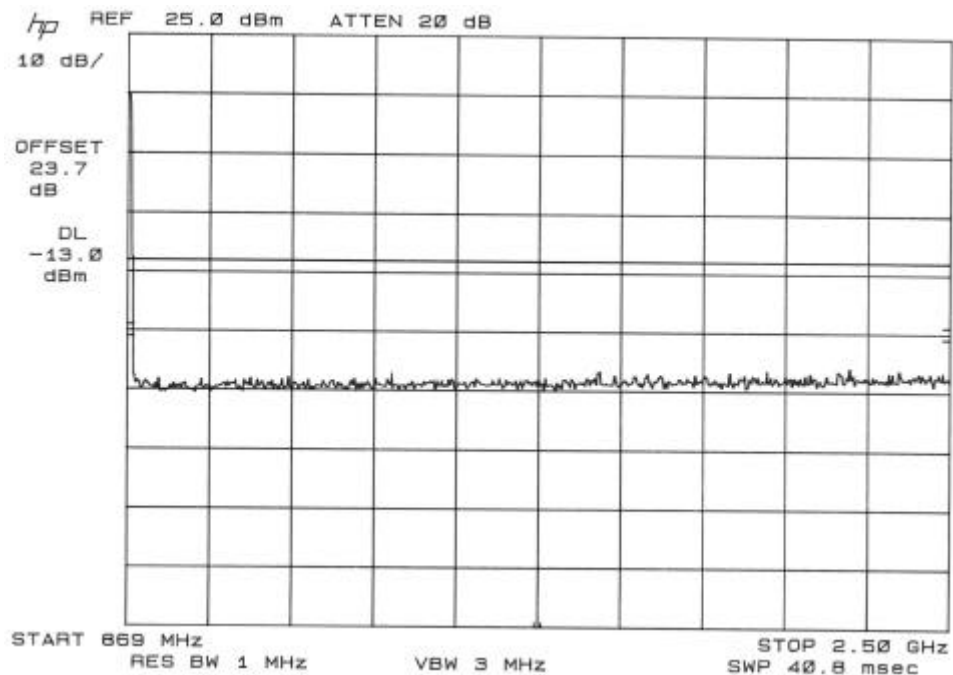
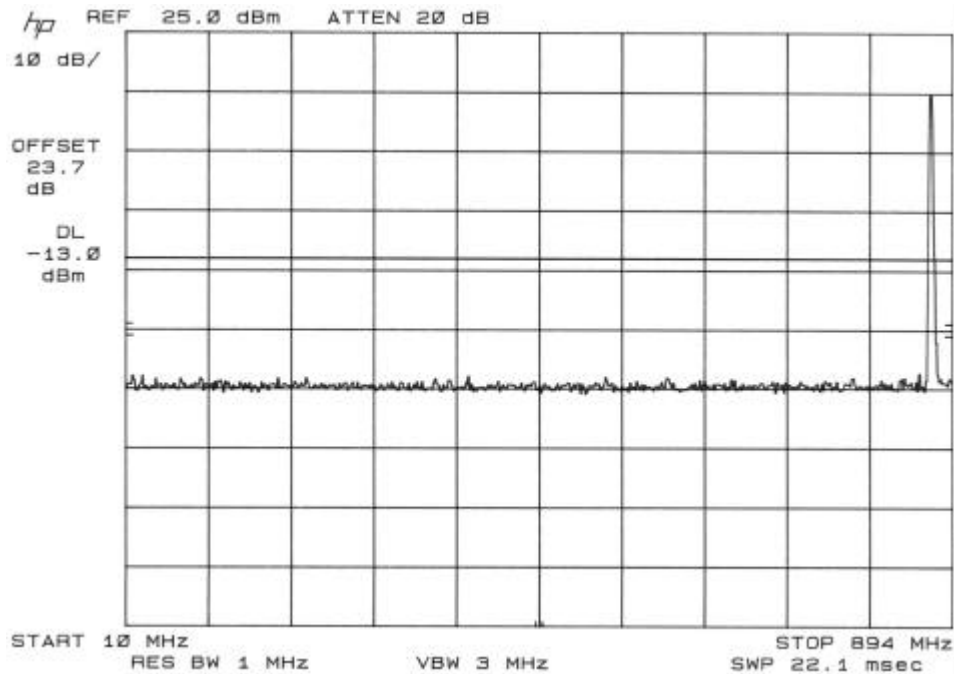


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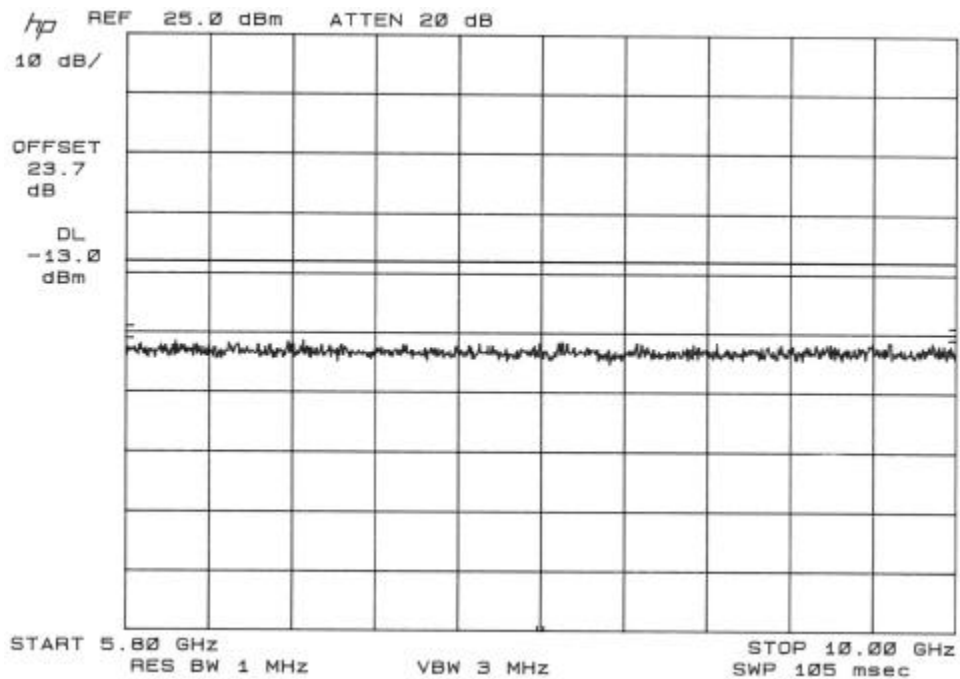
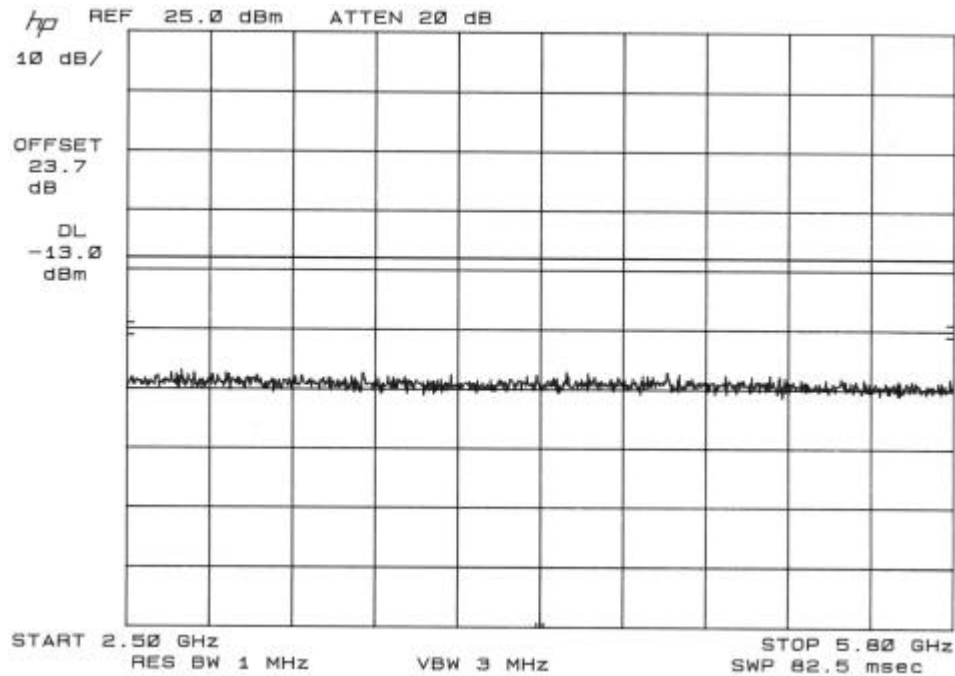


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 881.5 MHz		

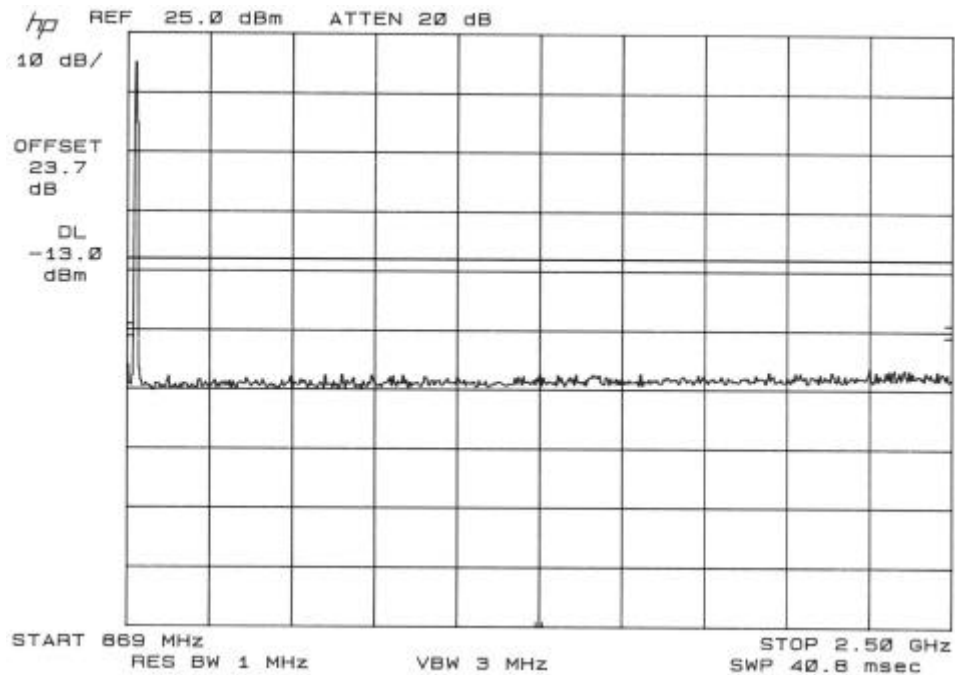
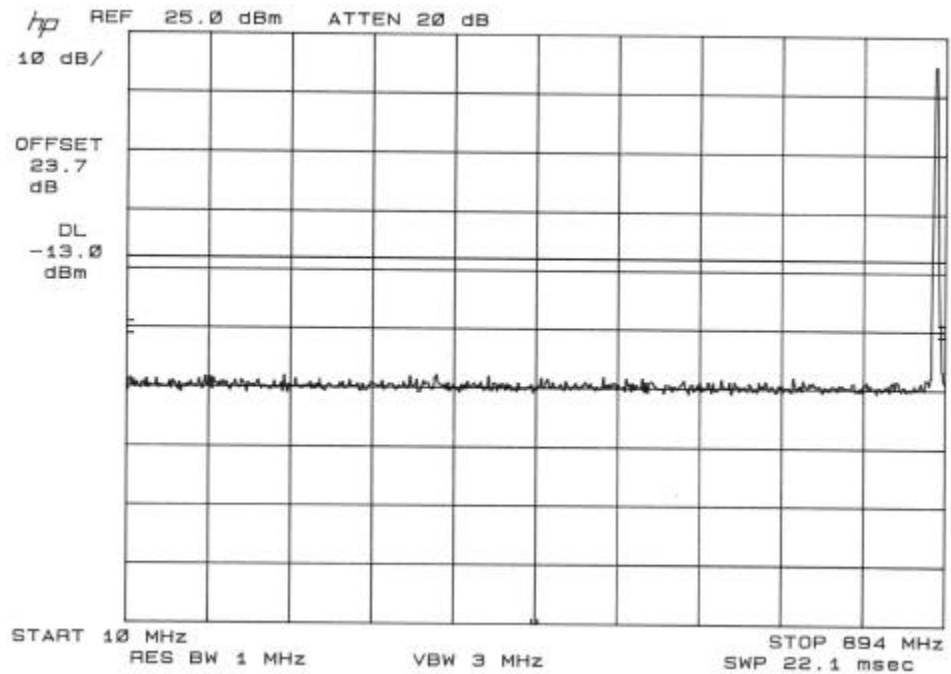


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Mid Channel – 881.5 MHz		

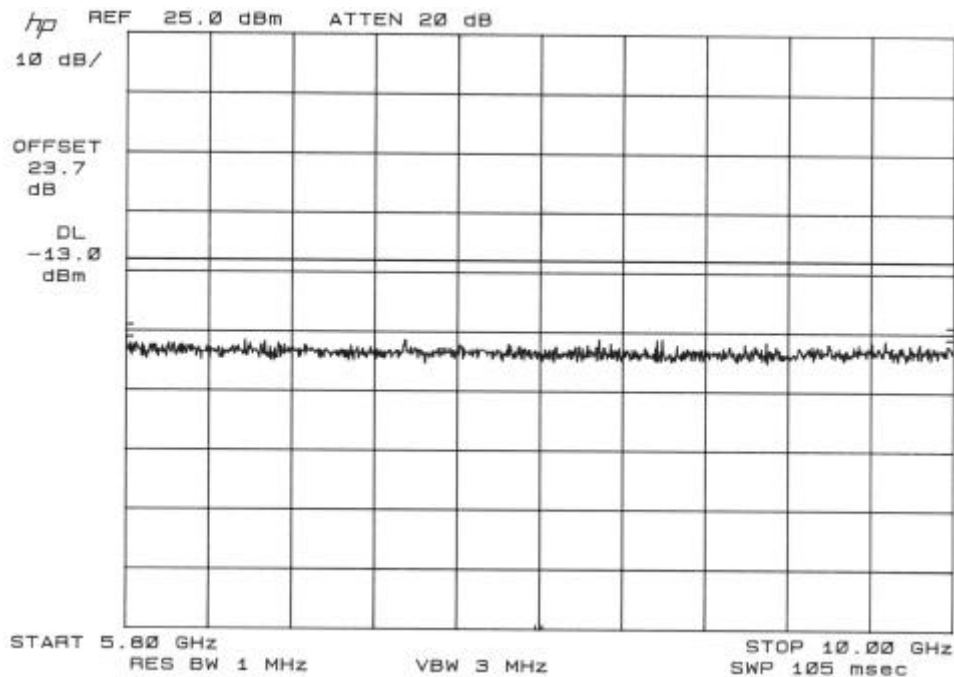
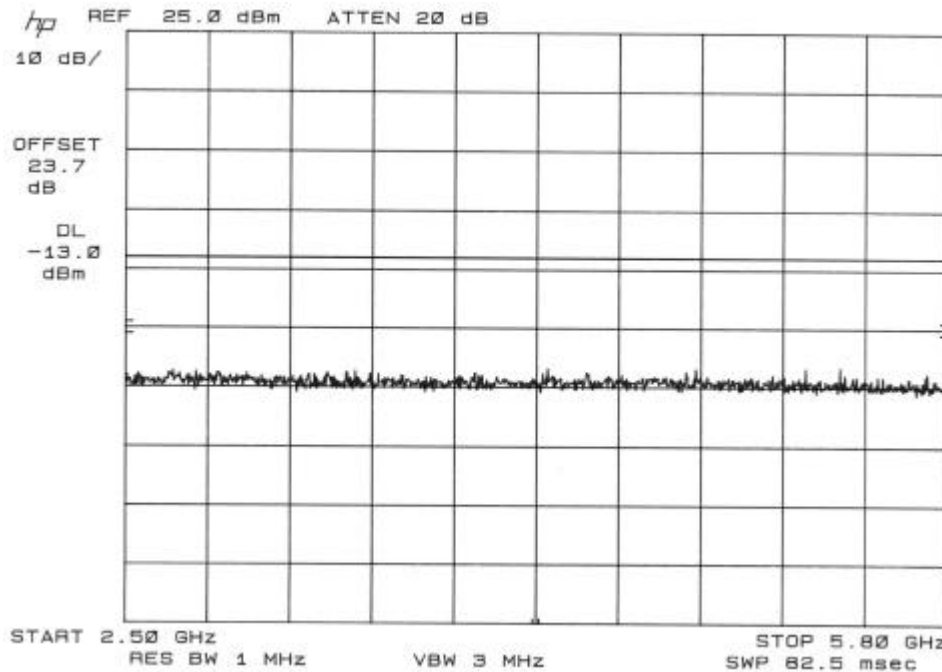


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Hi Channel – 893.8 MHz		

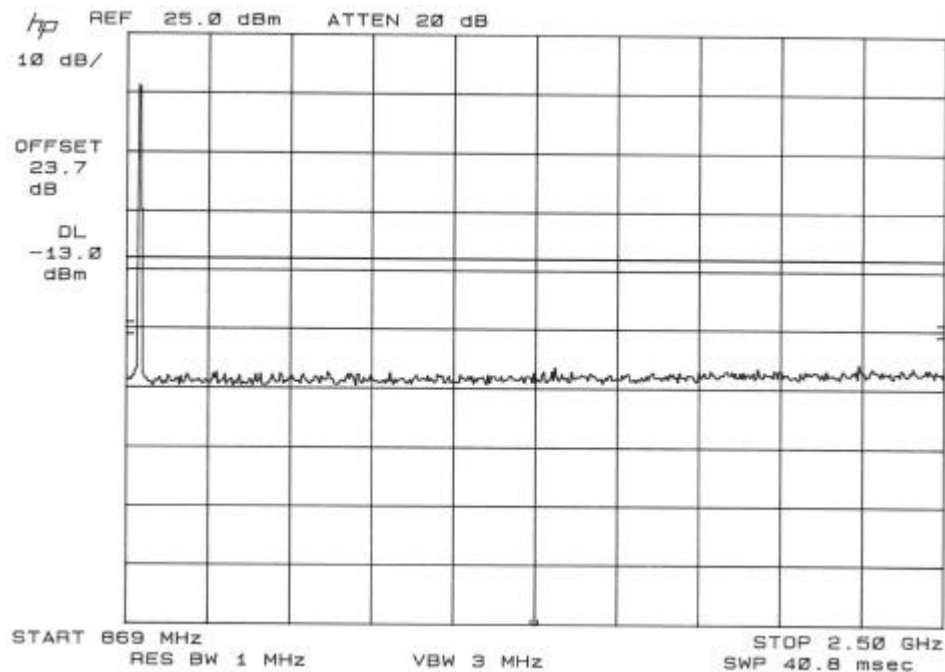
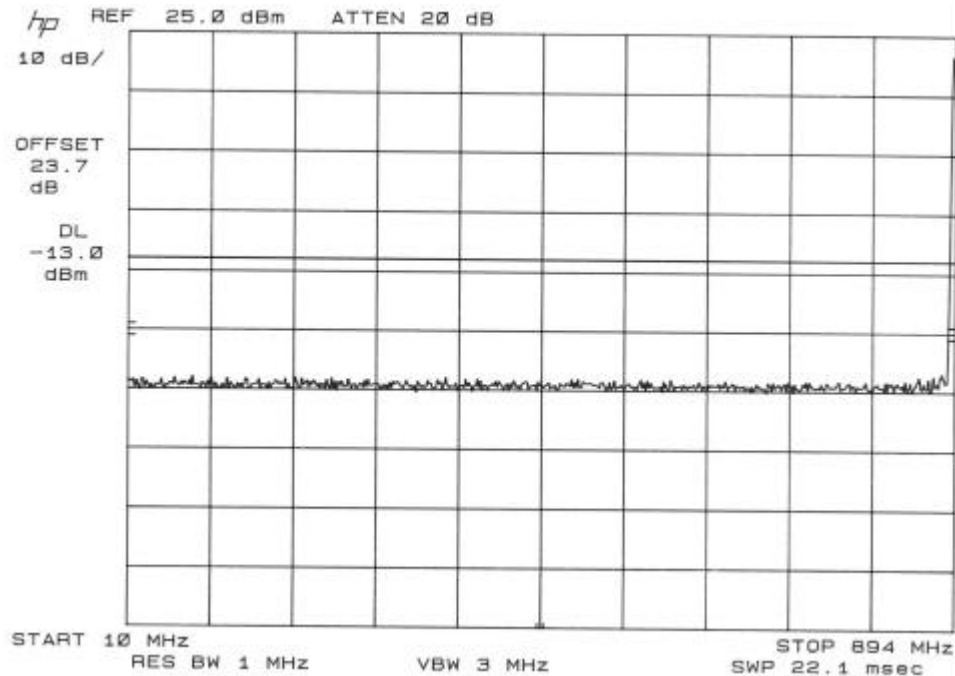


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – GSM – Hi Channel – 893.8 MHz		

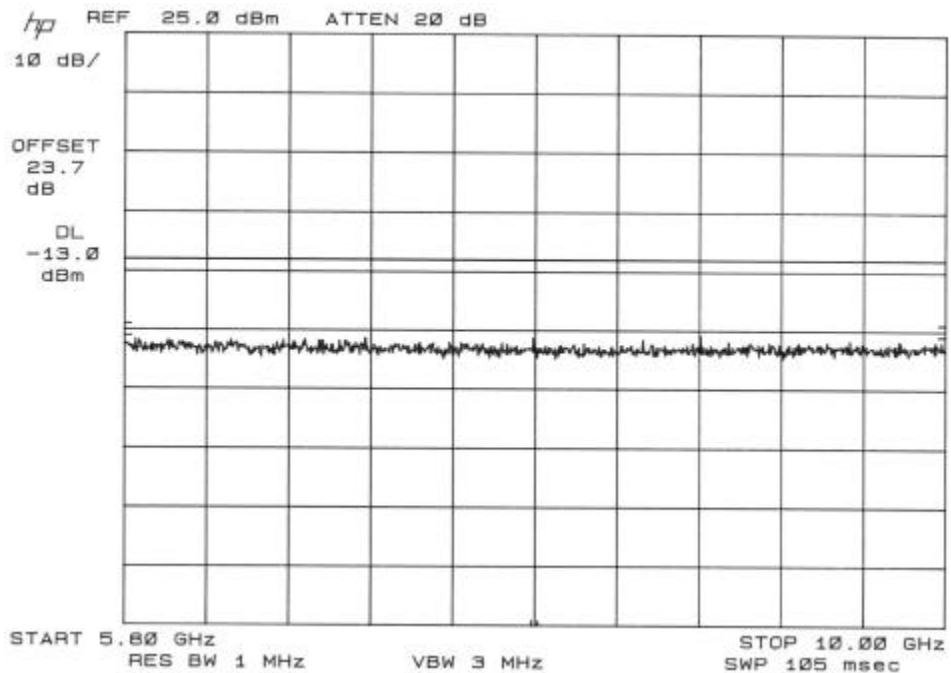
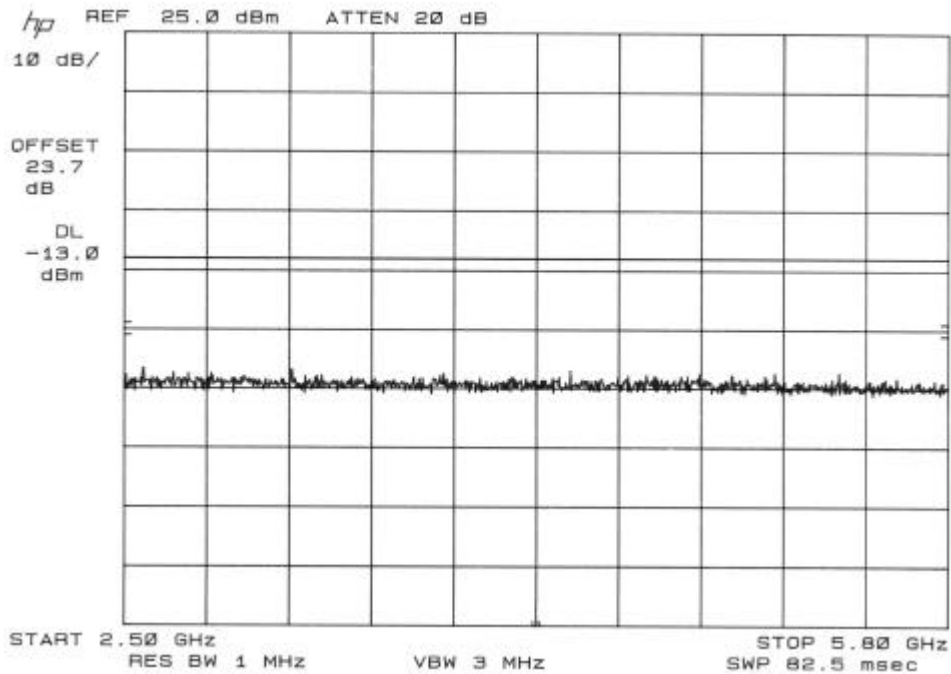


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DNB Job Number:	58129	Date: 7 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 869.2 MHz		

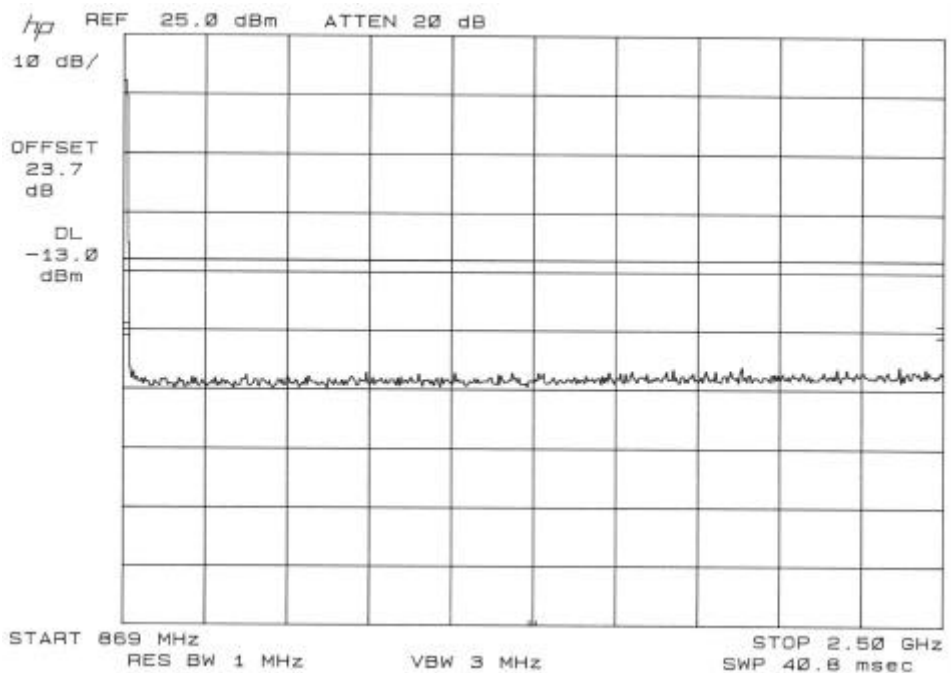
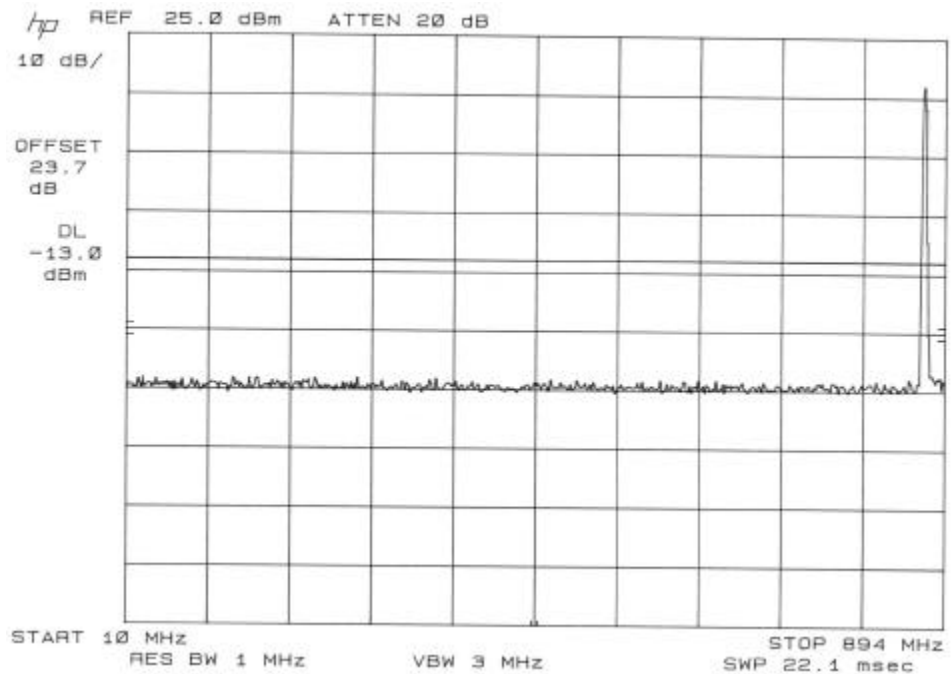


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Lo Channel – 869.2 MHz		

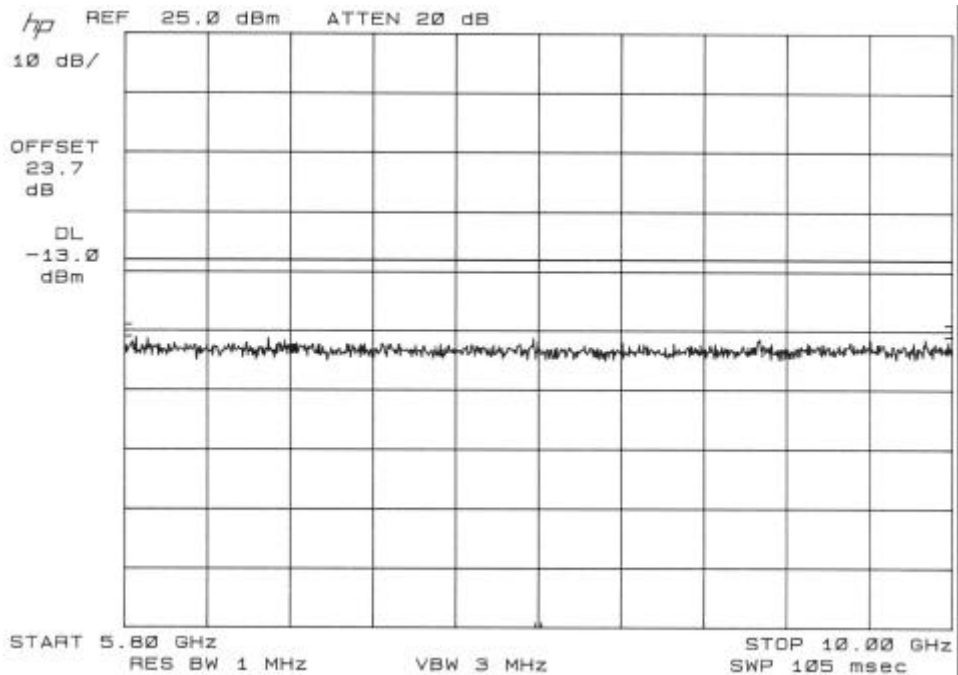
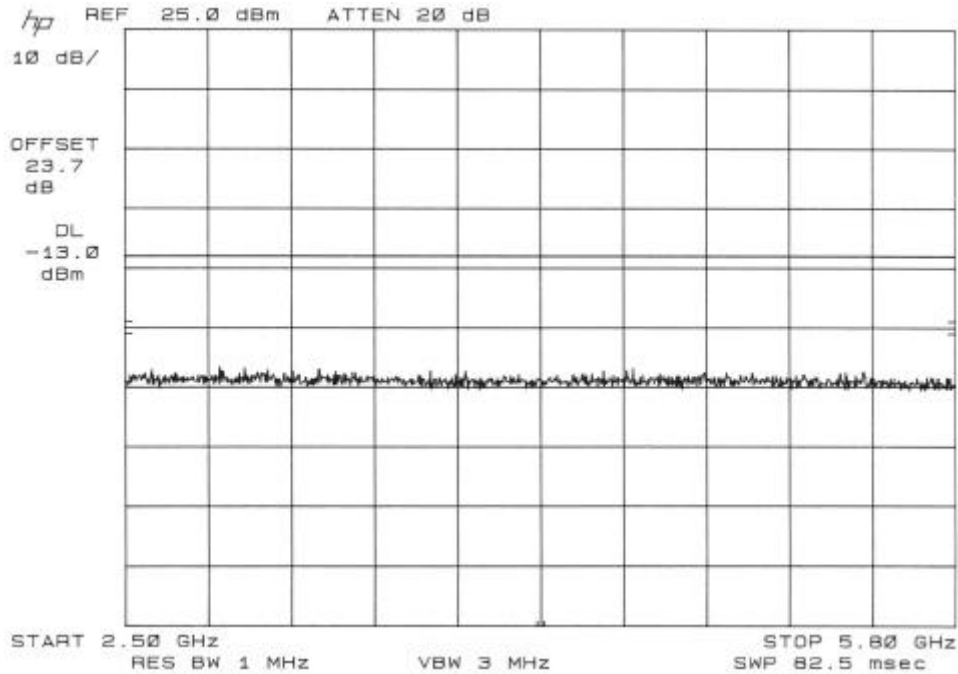


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Mid Channel – 881.5 MHz		

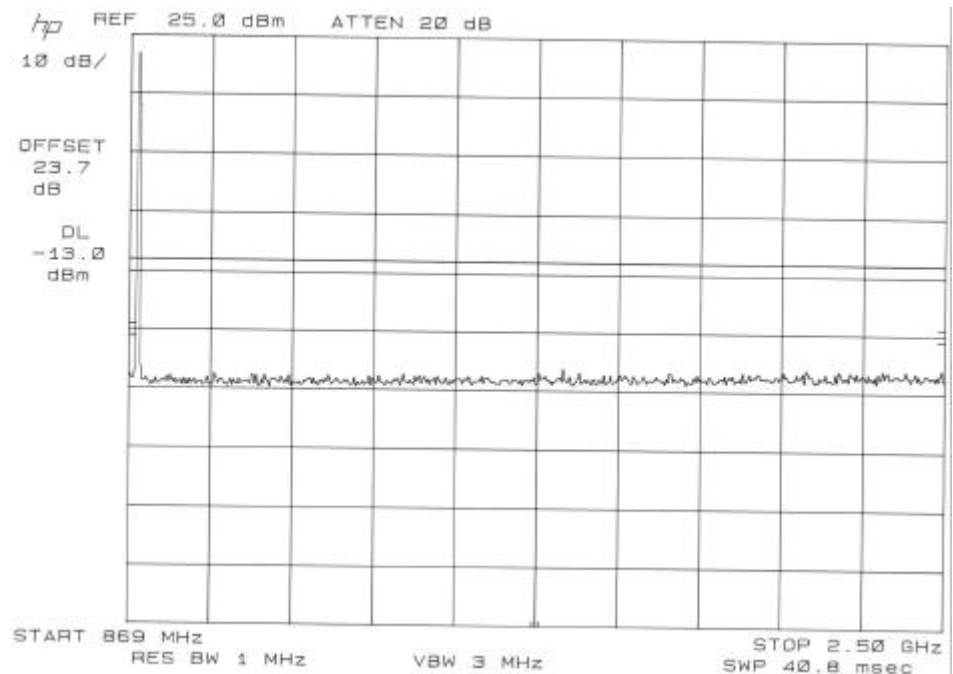
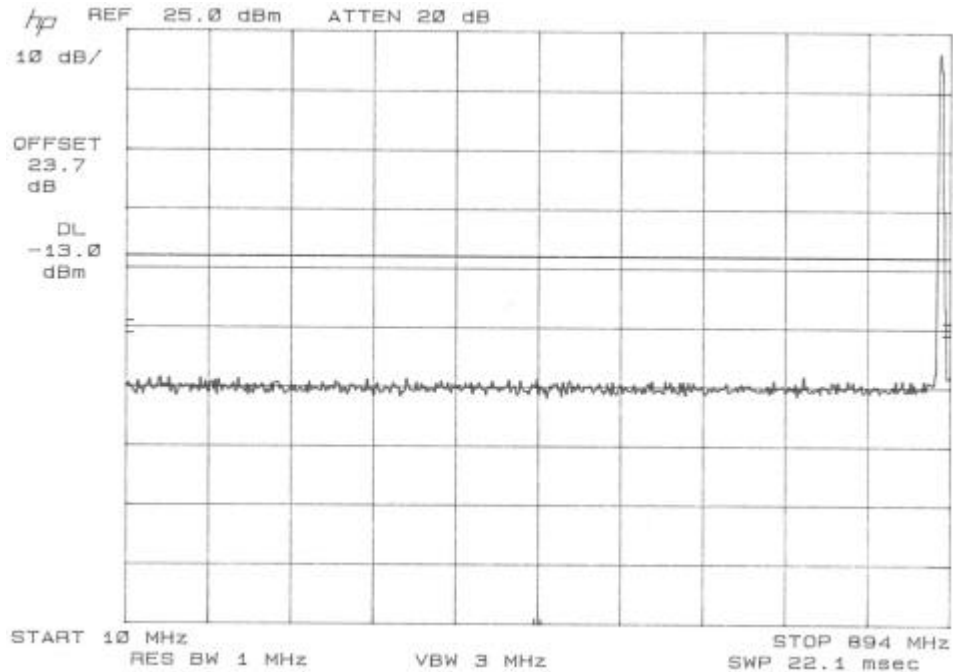


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Mid Channel – 881.5 MHz		

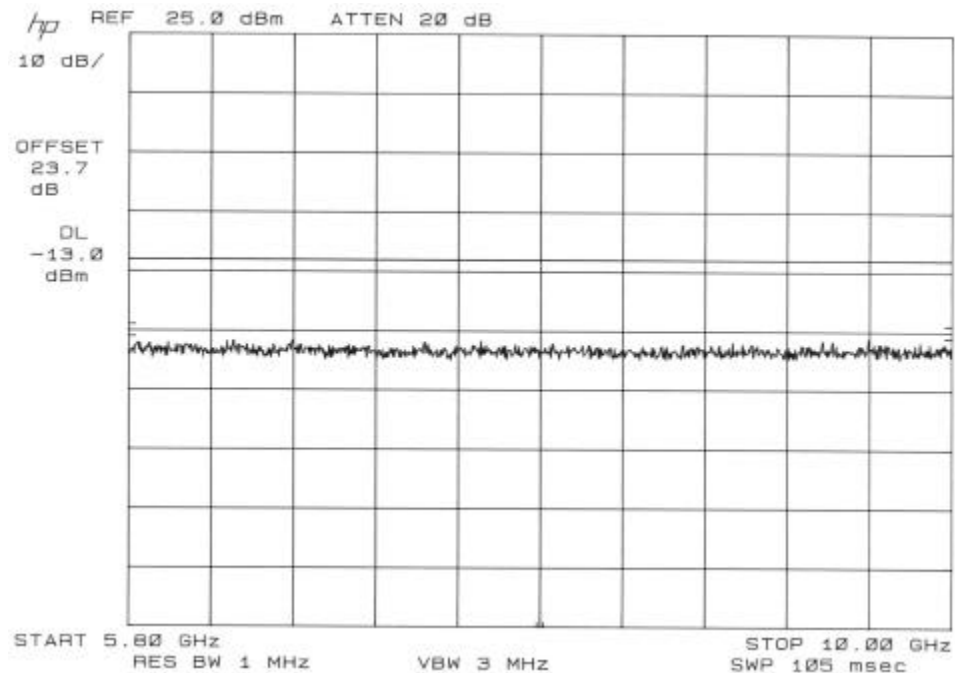
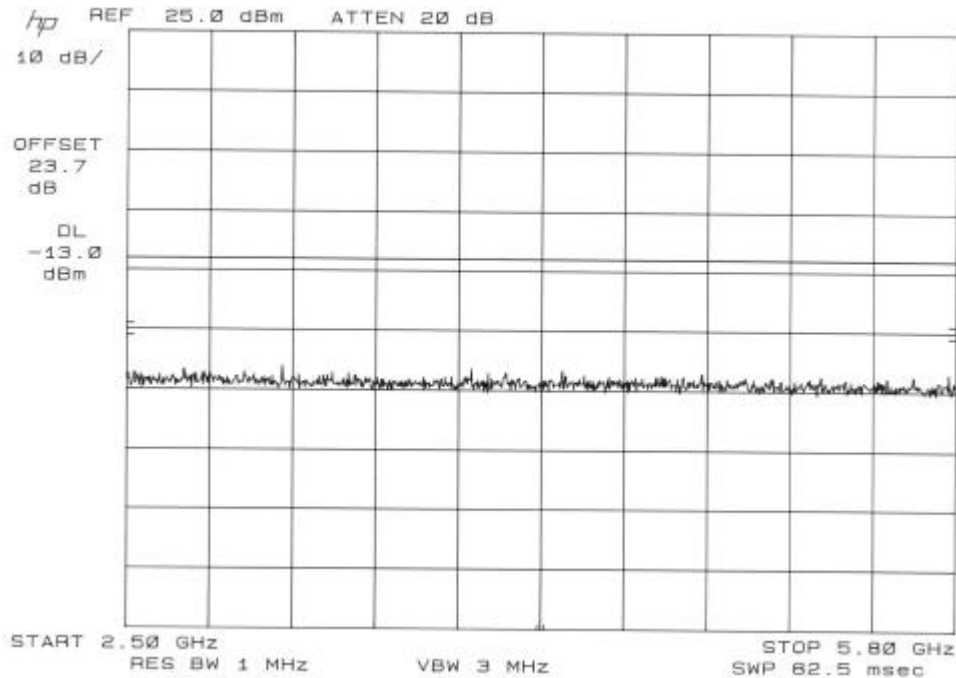


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – TDMA – Hi Channel – 893.8 MHz		

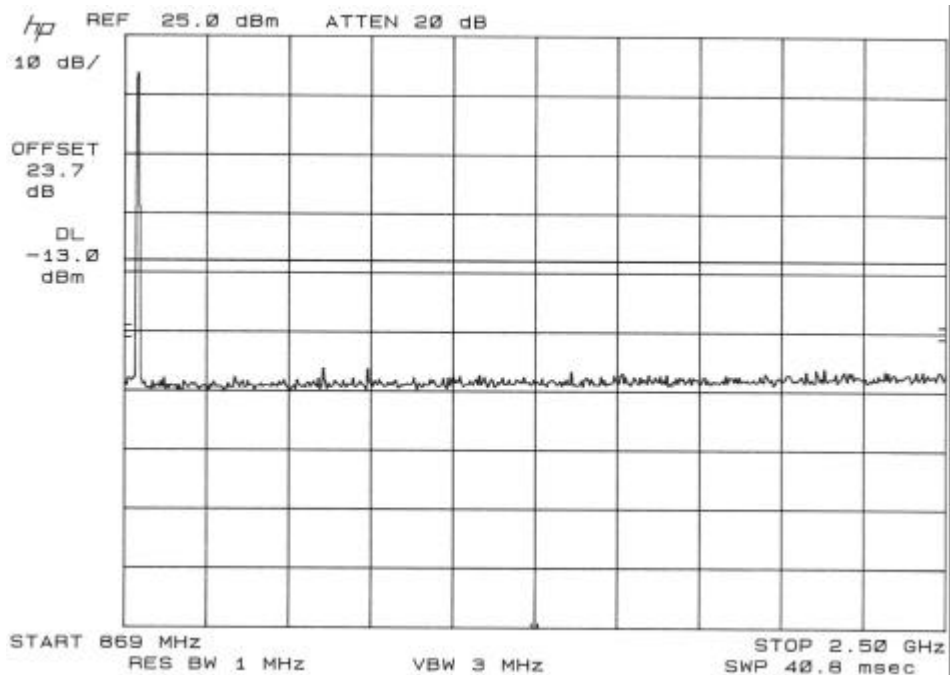
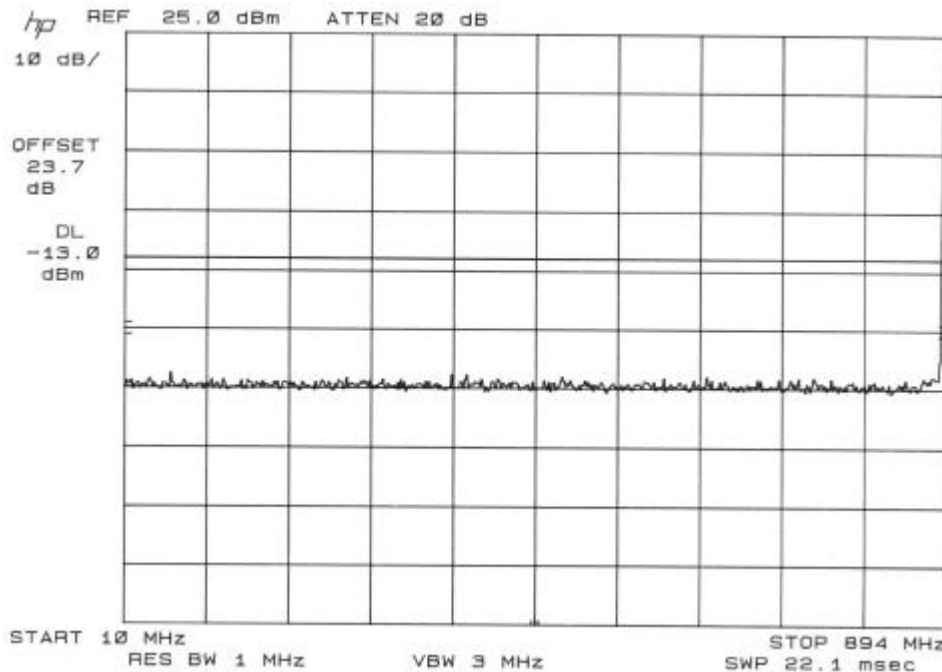


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Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
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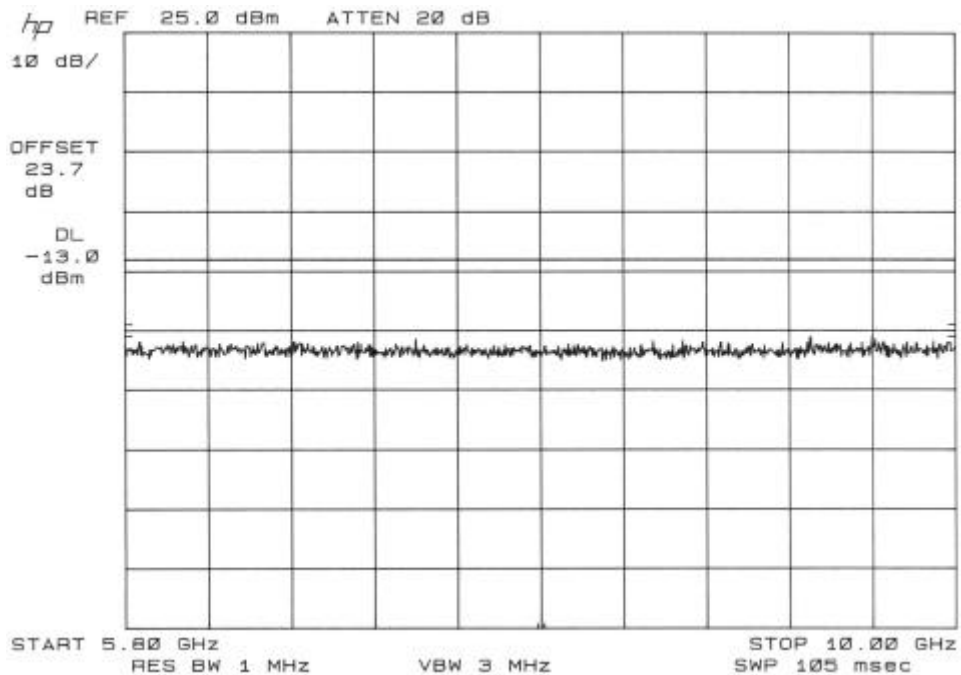
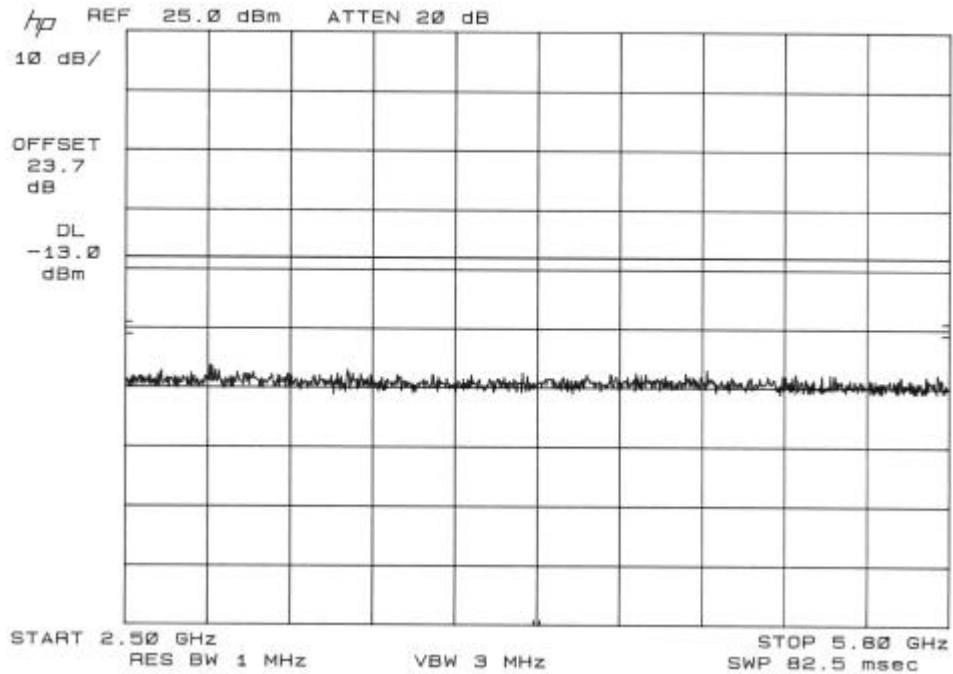


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – CDMA – Lo Channel – 869.7 MHz		

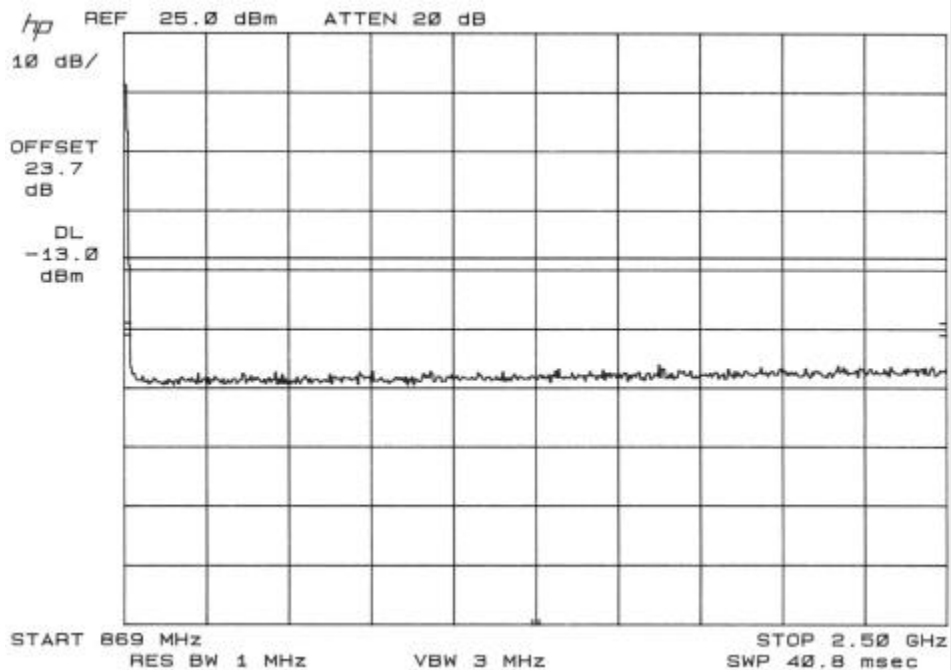
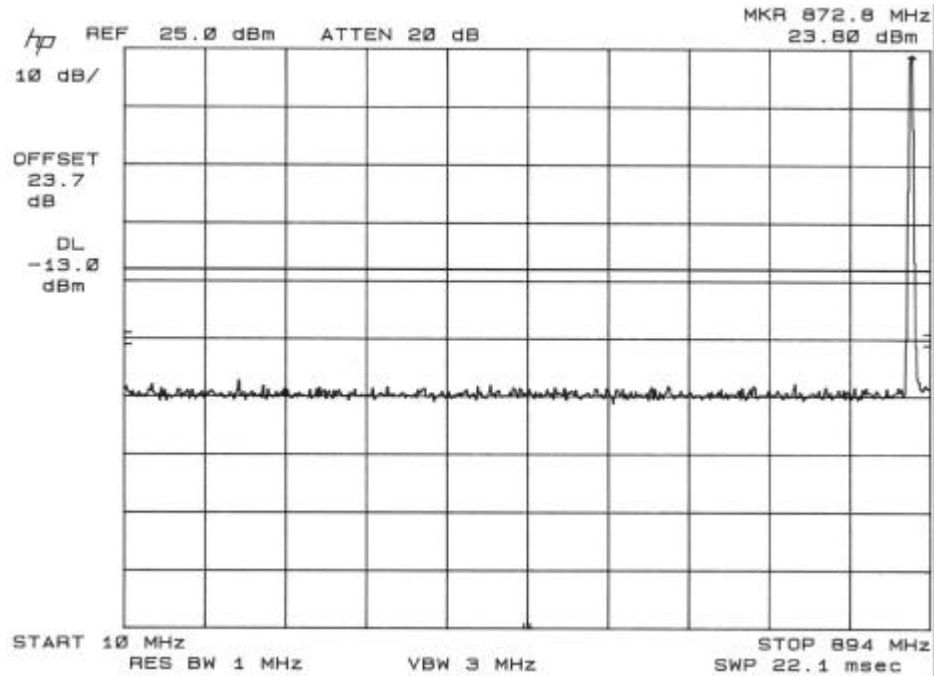


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – CDMA – Lo Channel – 869.7 MHz		

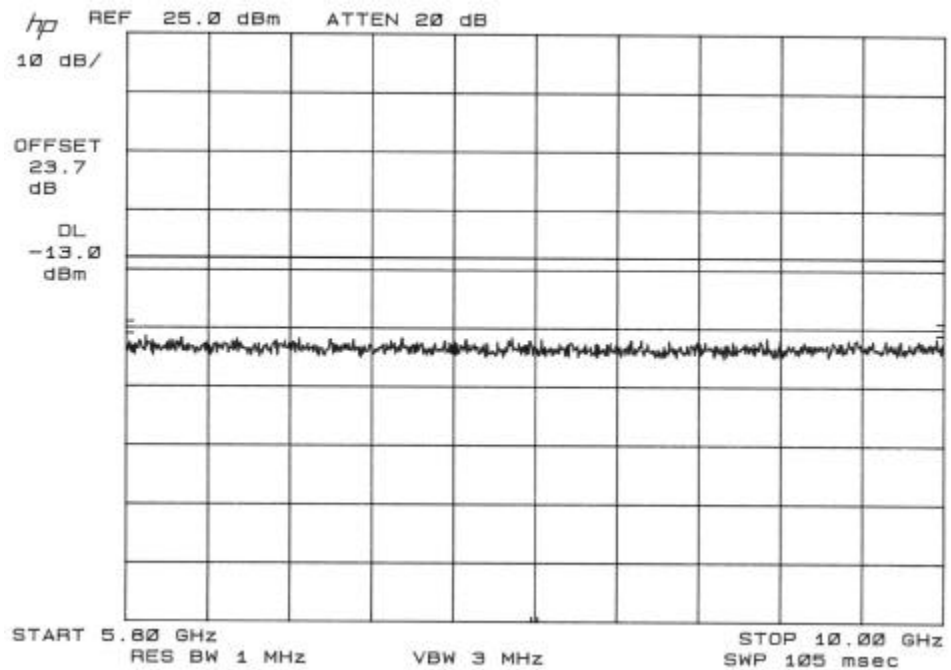
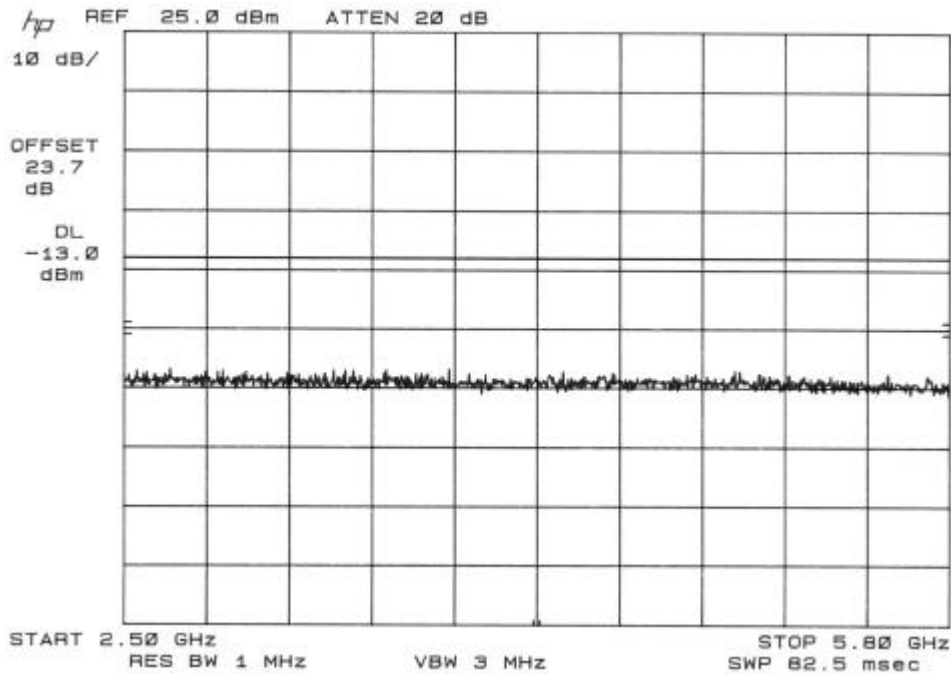


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – CDMA – Mid Channel – 881.5 MHz		

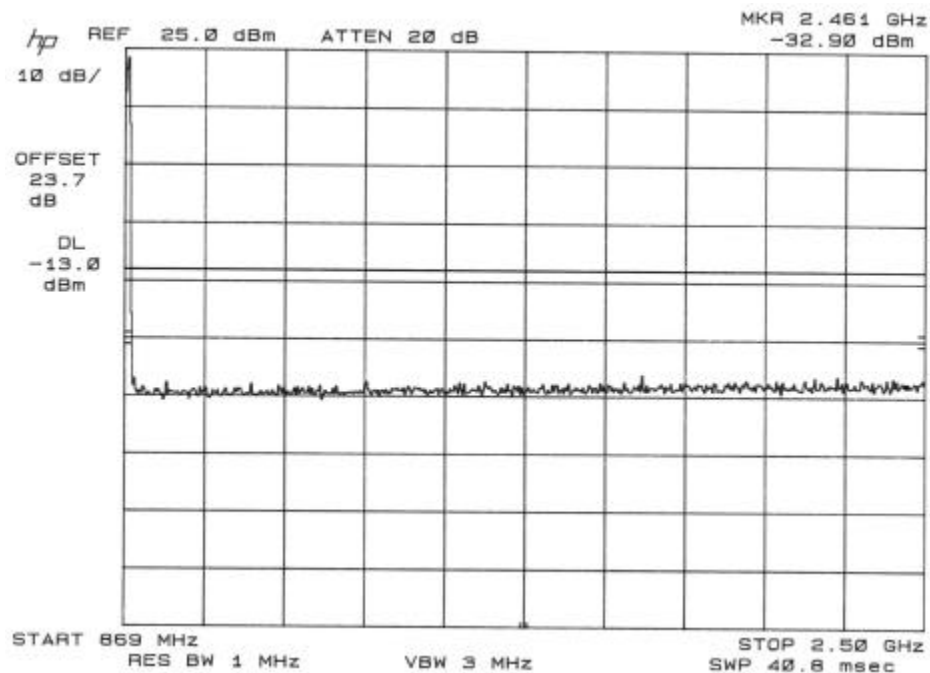
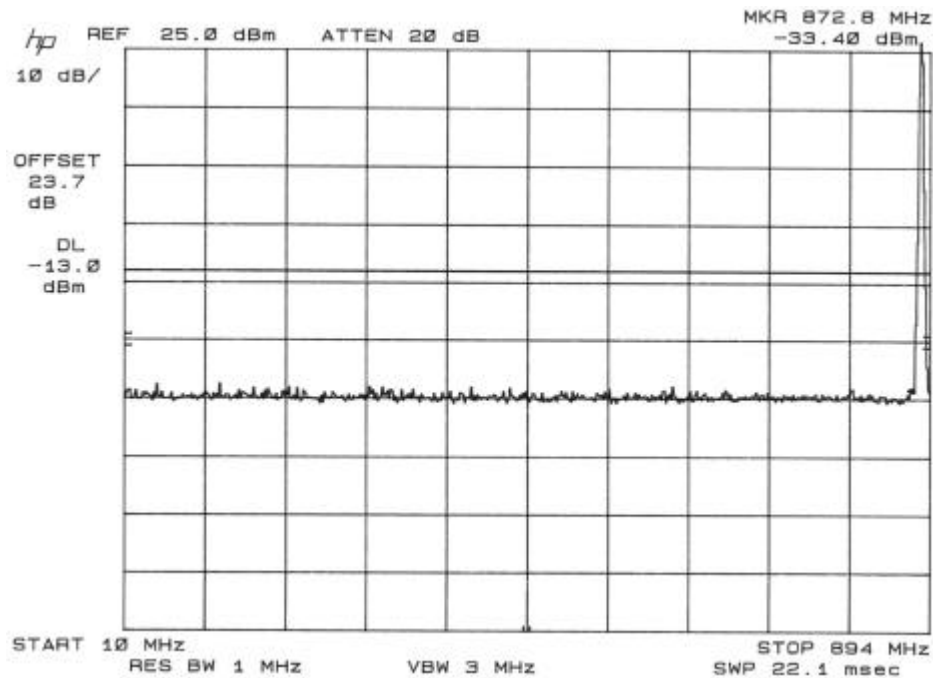


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Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
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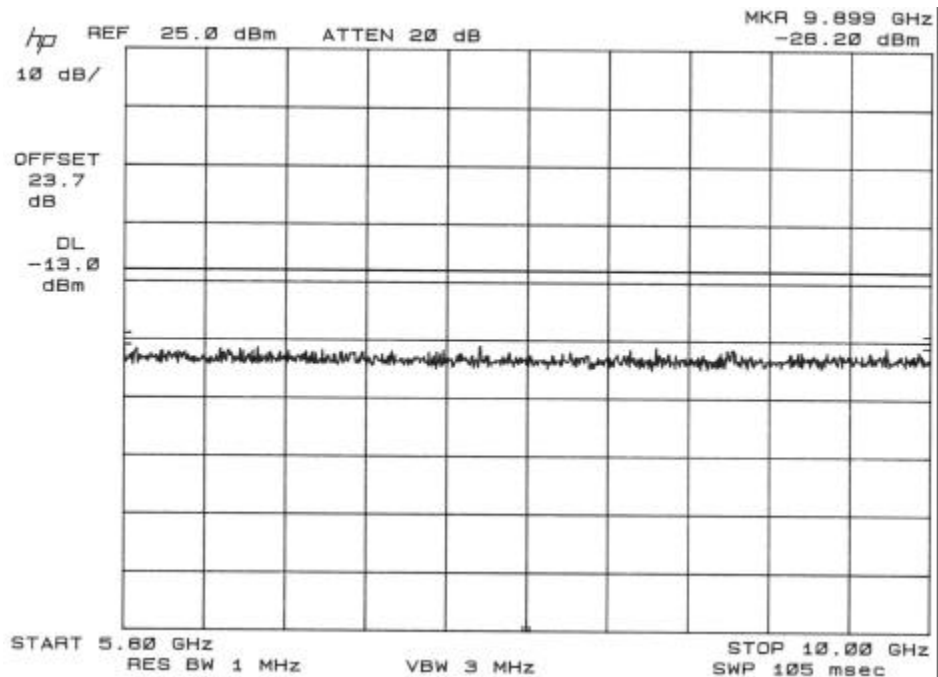
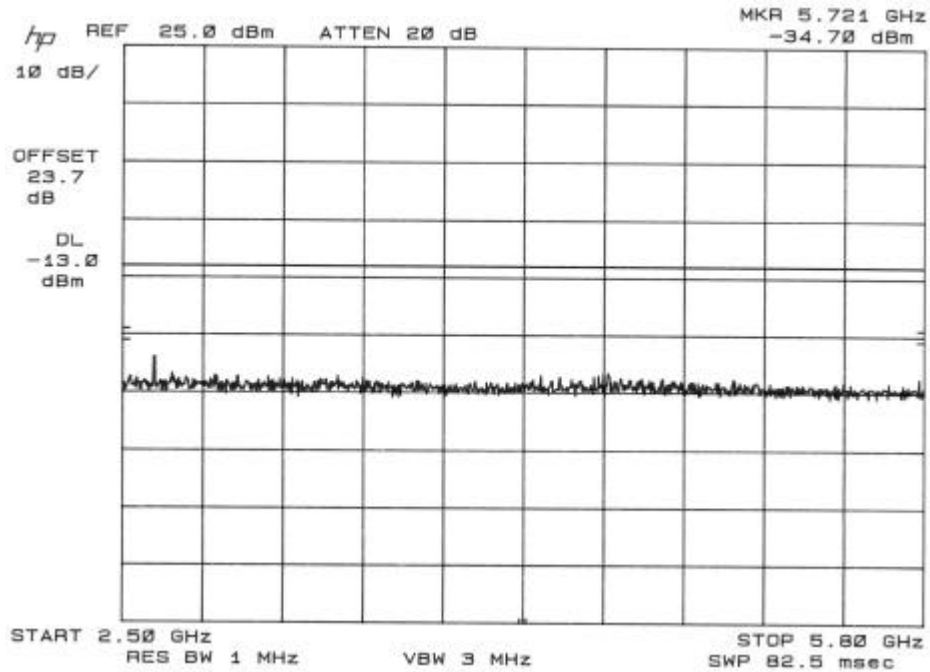


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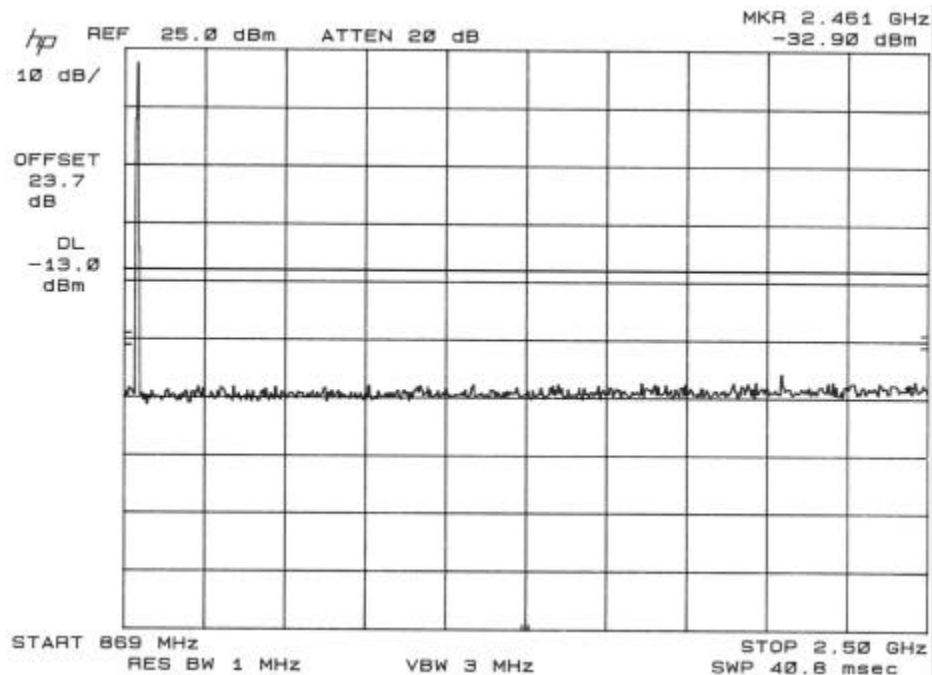
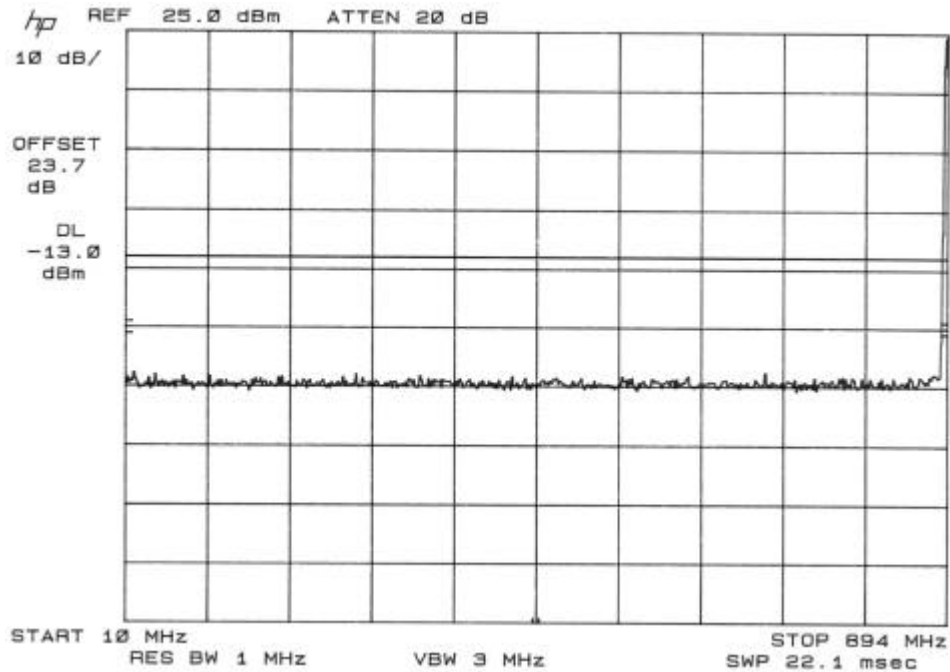
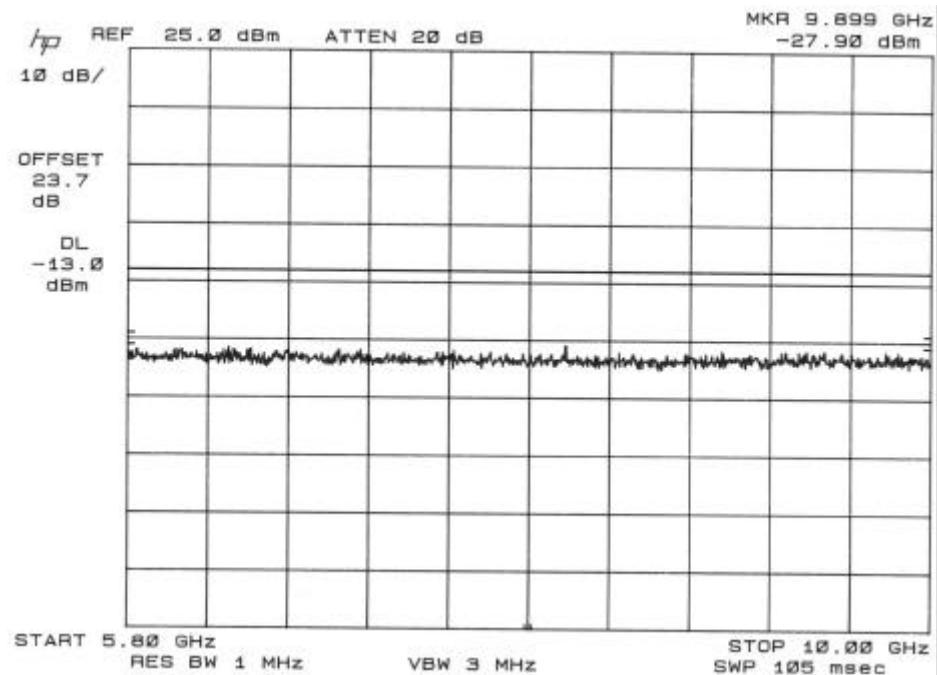
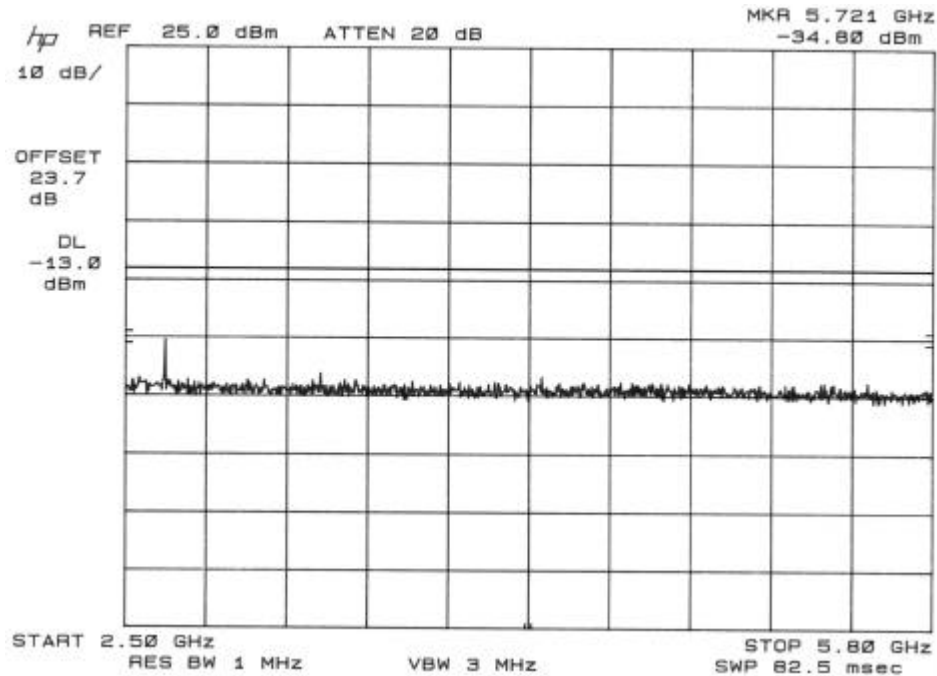


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Customer:	Janizary Holdings Inc		
Model Number:	CB-HP-800	Serial Number:	
Description:	RF amplifier		
	Downlink – CDMA – Hi Channel – 893.3 MHz		



2.1053 Field Strength of Spurious Radiation (IC RSS-131 Clause 4.4)

Definition:

Emissions from the equipment when connected into a non-radiating load on a frequency or frequencies which are outside an occupied band sufficient to ensure transmission of information of required quality for the class of communication desired. The reduction in the level of these spurious emissions will not affect the quality of the information being transmitted.

Test Method: Per TIA /EIA 603.

Connect the equipment and follow the procedure described in paragraph 2.2.1.12. Measure the amplitude of each spurious radiated signal through the 10th harmonic. The spurious signals are then measured on the 3 meter range. First the EUT is measured using a tuned reference dipole below 1GHz and a double ridge guide Horn antenna above 1GHz. If the DRG antenna is used the appropriate gain factor for the antenna is subtracted from the final measurement. Then a dipole to dipole (or drg to drg) measurement is conducted to determine the actual power at each harmonic being generated by the EUT. If no noticeable emission can be observed the ground floor is recorded in the data sheets.

Test Results:

All radiated spurious emissions are below the IC/FCC Specifications.

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Spurious	
DNB Job Number:		58129		Date: 11 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:		Janizary Holdings Inc			
Model Number:		CB-HP-800		Serial Number:	
Description:		RF amplifier			
		Uplink – Lo Channel – 824.0 MHz			
Harmonics	Freq MHz	Ant Polar	dBm Read	Limit	Margin
2nd	1648	H – peak	-64.5	-13	-51.5
	1648	H – average	-71.8	-13	-58.8
3rd	2472	H – peak	-60.8	-13	-47.8
	2472	H – average	-68.7	-13	-55.7
4th	3296	H – peak	-54.7	-13	-41.7
	3296	H – average	-63.6	-13	-50.6
5th	4120	H – peak	-50	-13	-37
	4120	H – average	-61.7	-13	-48.7
6th	4944	H – peak	-46.6	-13	-33.6
	4944	H – average	-57.8	-13	-44.8
7th	5768	H – peak	-45.9	-13	-32.9
	5768	H – average	-58.5	-13	-45.5
8th	6592	H – peak	-42.5	-13	-29.5
	6592	H – average	-54.5	-13	-41.5
9th	7416	H – peak	-44.7	-13	-31.7
	7416	H – average	-56.9	-13	-43.9
10th	8240	H – peak	-43.7	-13	-30.7
	8240	H – average	-53.7	-13	-40.7
2nd	1648	V – peak	-60.4	-13	-47.4
	1648	V – average	-70.8	-13	-57.8
3rd	2472	V – peak	-56.5	-13	-43.5
	2472	V – average	-68.3	-13	-55.3
4th	3296	V – peak	-53.1	-13	-40.1
	3296	V – average	-66.3	-13	-53.3
5th	4120	V – peak	-49.4	-13	-36.4
	4120	V – average	-61.8	-13	-48.8
6th	4944	V – peak	-47.4	-13	-34.4
	4944	V – average	-60.8	-13	-47.8
7th	5768	V – peak	-45.7	-13	-32.7
	5768	V – average	-58.5	-13	-45.5
8th	6592	V – peak	-40.8	-13	-27.8
	6592	V – average	-53.1	-13	-40.1
9th	7416	V – peak	-45.5	-13	-32.5
	7416	V – average	-57.6	-13	-44.6
10th	8240	V – peak	-42.3	-13	-29.3
	8240	V – average	-55	-13	-42

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Spurious	
DNB Job Number:		58129		Date: 11 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:		Janizary Holdings Inc			
Model Number:		CB-HP-800		Serial Number:	
Description:		RF amplifier			
		Uplink – Mid Channel – 836.5 MHz			
Harmonics	Freq MHz	Ant Polar	dBm Read	Limit	Margin
2nd	1673	H – peak	-58.5	-13	-45.5
	1673	H – average	-64.9	-13	-51.9
3rd	2509	H – peak	-55.3	-13	-42.3
	2509	H – average	-68.3	-13	-55.3
4th	3346	H – peak	-53.7	-13	-40.7
	3346	H – average	-66.3	-13	-53.3
5th	4182	H – peak	-49.4	-13	-36.4
	4182	H – average	-62.2	-13	-49.2
6th	5019	H – peak	-46.9	-13	-33.9
	5019	H – average	-59.1	-13	-46.1
7th	5855	H – peak	-46.2	-13	-33.2
	5855	H – average	-57.6	-13	-44.6
8th	6692	H – peak	-42.1	-13	-29.1
	6692	H – average	-54.2	-13	-41.2
9th	7528	H – peak	-45.7	-13	-32.7
	7528	H – average	-56.4	-13	-43.4
10th	8365	H – peak	-42.8	-13	-29.8
	8365	H – average	-51.9	-13	-38.9
2nd	1673	V – peak	-60.3	-13	-47.3
	1673	V – average	-68.2	-13	-55.2
3rd	2509	V – peak	-56.1	-13	-43.1
	2509	V – average	-68.6	-13	-55.6
4th	3346	V – peak	-54.7	-13	-41.7
	3346	V – average	-65	-13	-52
5th	4182	V – peak	-50.1	-13	-37.1
	4182	V – average	-61.5	-13	-48.5
6th	5019	V – peak	-47.3	-13	-34.3
	5019	V – average	-58.9	-13	-45.9
7th	5855	V – peak	-46.1	-13	-33.1
	5855	V – average	-56.6	-13	-43.6
8th	6692	V – peak	-41.8	-13	-28.8
	6692	V – average	-58.9	-13	-45.9
9th	7528	V – peak	-48.6	-13	-35.6
	7528	V – average	-56.6	-13	-43.6
10th	8365	V – peak	-41.6	-13	-28.6
	8365	V – average	-52.5	-13	-39.5

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Spurious	
DNB Job Number:		58129		Date: 11 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:		Janizary Holdings Inc			
Model Number:		CB-HP-800		Serial Number:	
Description:		RF amplifier			
		Uplink – Hi Channel – 849.0 MHz			
Harmonics	Freq MHz	Ant Polar	dBm Read	Limit	Margin
2nd	1698	H – peak	-63.4	-13	-50.4
	1698	H – average	-75.5	-13	-62.5
3rd	2547	H – peak	-56.1	-13	-43.1
	2547	H – average	-69.2	-13	-56.2
4th	3396	H – peak	-53.4	-13	-40.4
	3396	H – average	-65.7	-13	-52.7
5th	4245	H – peak	-48.3	-13	-35.3
	4245	H – average	-61.5	-13	-48.5
6th	5094	H – peak	-46	-13	-33
	5094	H – average	-59.4	-13	-46.4
7th	5943	H – peak	-40.9	-13	-27.9
	5943	H – average	-52.3	-13	-39.3
8th	6792	H – peak	-44	-13	-31
	6792	H – average	-54.6	-13	-41.6
9th	7641	H – peak	-46.9	-13	-33.9
	7641	H – average	-55.8	-13	-42.8
10th	8490	H – peak	-40.4	-13	-27.4
	8490	H – average	-51.6	-13	-38.6
2nd	1698	V – peak	-62.8	-13	-49.8
	1698	V – average	-74.4	-13	-61.4
3rd	2547	V – peak	-55.8	-13	-42.8
	2547	V – average	-68.8	-13	-55.8
4th	3396	V – peak	-54.1	-13	-41.1
	3396	V – average	-55.8	-13	-42.8
5th	4245	V – peak	-48.1	-13	-35.1
	4245	V – average	-62.6	-13	-49.6
6th	5094	V – peak	-51.5	-13	-38.5
	5094	V – average	-65.9	-13	-52.9
7th	5943	V – peak	-51	-13	-38
	5943	V – average	-61.6	-13	-48.6
8th	6792	V – peak	-47.8	-13	-34.8
	6792	V – average	-59.1	-13	-46.1
9th	7641	V – peak	-43.6	-13	-30.6
	7641	V – average	-56.3	-13	-43.3
10th	8490	V – peak	-40.8	-13	-27.8
	8490	V – average	-53.1	-13	-40.1

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Spurious	
DNB Job Number:		58129		Date: 11 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:		Janizary Holdings Inc			
Model Number:		CB-HP-800		Serial Number:	
Description:		RF amplifier			
		Downlink – Lo Channel – 869.0 MHz			
Harmonics	Freq MHz	Ant Polar	dBm Read	Limit	Margin
2nd	1738	H – peak	-63.4	-13	-50.4
	1738	H – average	-77.8	-13	-64.8
3rd	2607	H – peak	-57.7	-13	-44.7
	2607	H – average	-69.1	-13	-56.1
4th	3476	H – peak	-52.6	-13	-39.6
	3476	H – average	-65.4	-13	-52.4
5th	4345	H – peak	-48.8	-13	-35.8
	4345	H – average	-60.4	-13	-47.4
6th	5214	H – peak	-46.7	-13	-33.7
	5214	H – average	-59	-13	-46
7th	6083	H – peak	-45.5	-13	-32.5
	6083	H – average	-56	-13	-43
8th	6952	H – peak	-42.6	-13	-29.6
	6952	H – average	-54.4	-13	-41.4
9th	7821	H – peak	-44.2	-13	-31.2
	7821	H – average	-56.6	-13	-43.6
10th	8690	H – peak	-36.4	-13	-23.4
	8690	H – average	-50.5	-13	-37.5
2nd	1738	V – peak	-64.2	-13	-51.2
	1738	V – average	-75.6	-13	-62.6
3rd	2607	V – peak	-56.4	-13	-43.4
	2607	V – average	-67.5	-13	-54.5
4th	3476	V – peak	-55.3	-13	-42.3
	3476	V – average	-66.4	-13	-53.4
5th	4345	V – peak	-48.1	-13	-35.1
	4345	V – average	-61.5	-13	-48.5
6th	5214	V – peak	-46.9	-13	-33.9
	5214	V – average	-59.7	-13	-46.7
7th	6083	V – peak	-44.1	-13	-31.1
	6083	V – average	-55.1	-13	-42.1
8th	6952	V – peak	-45.8	-13	-32.8
	6952	V – average	-56.8	-13	-43.8
9th	7821	V – peak	-44.7	-13	-31.7
	7821	V – average	-56.4	-13	-43.4
10th	8690	V – peak	-38.7	-13	-25.7
	8690	V – average	-50.5	-13	-37.5

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Spurious	
DNB Job Number:		58129		Date: 11 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:		Janizary Holdings Inc			
Model Number:		CB-HP-800		Serial Number:	
Description:		RF amplifier			
		Downlink – Mid Channel – 881.5 MHz			
Harmonics	Freq MHz	Ant Polar	dBm Read	Limit	Margin
2nd	1763	H – peak	-62.8	-13	-49.8
	1763	H – average	-72.7	-13	-59.7
3rd	2644.5	H – peak	-56.4	-13	-43.4
	2644.5	H – average	-66	-13	-53
4th	3526	H – peak	-54.4	-13	-41.4
	3526	H – average	-65.8	-13	-52.8
5th	4407.5	H – peak	-49.4	-13	-36.4
	4407.5	H – average	-61	-13	-48
6th	5289	H – peak	-47.4	-13	-34.4
	5289	H – average	-59	-13	-46
7th	6170.5	H – peak	-44.9	-13	-31.9
	6170.5	H – average	-57.3	-13	-44.3
8th	7052	H – peak	-47.4	-13	-34.4
	7052	H – average	-57.3	-13	-44.3
9th	7933.5	H – peak	-43.8	-13	-30.8
	7933.5	H – average	-55.6	-13	-42.6
10th	8815	H – peak	-39.3	-13	-26.3
	8815	H – average	-50.1	-13	-37.1
2nd	1763	V – peak	-63.3	-13	-50.3
	1763	V – average	-73.6	-13	-60.6
3rd	2644.5	V – peak	-51.9	-13	-38.9
	2644.5	V – average	-60.4	-13	-47.4
4th	3526	V – peak	-55	-13	-42
	3526	V – average	-65.8	-13	-52.8
5th	4407.5	V – peak	-50.1	-13	-37.1
	4407.5	V – average	-59.8	-13	-46.8
6th	5289	V – peak	-46.9	-13	-33.9
	5289	V – average	-58.3	-13	-45.3
7th	6170.5	V – peak	-45	-13	-32
	6170.5	V – average	-57	-13	-44
8th	7052	V – peak	-41.5	-13	-28.5
	7052	V – average	-52.7	-13	-39.7
9th	7933.5	V – peak	-43.8	-13	-30.8
	7933.5	V – average	-58.1	-13	-45.1
10th	8815	V – peak	-37.7	-13	-24.7
	8815	V – average	-49.5	-13	-36.5

FIGURE 8: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS, UPLINK.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704		Radiated Spurious	
DNB Job Number:		58129		Date: 11 Apr 2005	Conformance Standards [X] IC RSS-131 [X] FCC Part 22
Customer:		Janizary Holdings Inc			
Model Number:		CB-HP-800		Serial Number:	
Description:		RF amplifier			
		Downlink – Hi Channel – 894.0 MHz			
Harmonics	Freq MHz	Ant Polar	dBm Read	Limit	Margin
2nd	1788	H – peak	-61.5	-13	-48.5
	1788	H – average	-74.4	-13	-61.4
3rd	2682	H – peak	-56.6	-13	-43.6
	2682	H – average	-69.4	-13	-56.4
4th	3576	H – peak	-52.7	-13	-39.7
	3576	H – average	-64.3	-13	-51.3
5th	4470	H – peak	-46.6	-13	-33.6
	4470	H – average	-60.3	-13	-47.3
6th	5364	H – peak	-46.3	-13	-33.3
	5364	H – average	-58.5	-13	-45.5
7th	6258	H – peak	-44.1	-13	-31.1
	6258	H – average	-55.9	-13	-42.9
8th	7152	H – peak	-40.9	-13	-27.9
	7152	H – average	-52.6	-13	-39.6
9th	8046	H – peak	-45.7	-13	-32.7
	8046	H – average	-54.4	-13	-41.4
10th	8940	H – peak	-37.4	-13	-24.4
	8940	H – average	-47	-13	-34
2nd	1788	V – peak	-61.6	-13	-48.6
	1788	V – average	-74.5	-13	-61.5
3rd	2682	V – peak	-56.5	-13	-43.5
	2682	V – average	-69	-13	-56
4th	3576	V – peak	-51.8	-13	-38.8
	3576	V – average	-65.2	-13	-52.2
5th	4470	V – peak	-48.5	-13	-35.5
	4470	V – average	-59.9	-13	-46.9
6th	5364	V – peak	-45.5	-13	-32.5
	5364	V – average	-59.4	-13	-46.4
7th	6258	V – peak	-44	-13	-31
	6258	V – average	-56.7	-13	-43.7
8th	7152	V – peak	-40	-13	-27
	7152	V – average	-53.6	-13	-40.6
9th	8046	V – peak	-44.3	-13	-31.3
	8046	V – average	-54.8	-13	-41.8
10th	8940	V – peak	-35.3	-13	-22.3
	8940	V – average	-47.2	-13	-34.2

CONDUCTED EMISSIONS

Definition:

Emissions which emanate along the power lines from the EUT.

Test Method: FCC Part 15 Class B (CISPR 22)

To measure conducted emissions, the EUT was set upon a wooden table in the shielded enclosure. AC power was fed into the EUT from the Artificial Mains Network. With the Artificial Mains Network connected to an HP 8568B Spectrum Analyzer, and using the HP 9825 Computer/Controller (or equivalent) and the HP 85864B EMI Measurement Software, the spectrum was searched from 0.15 - 30 MHz for emissions emanating from the EUT.

Test Results: All readings were below the expectable limit.

Figure 9: Conducted Emissions.

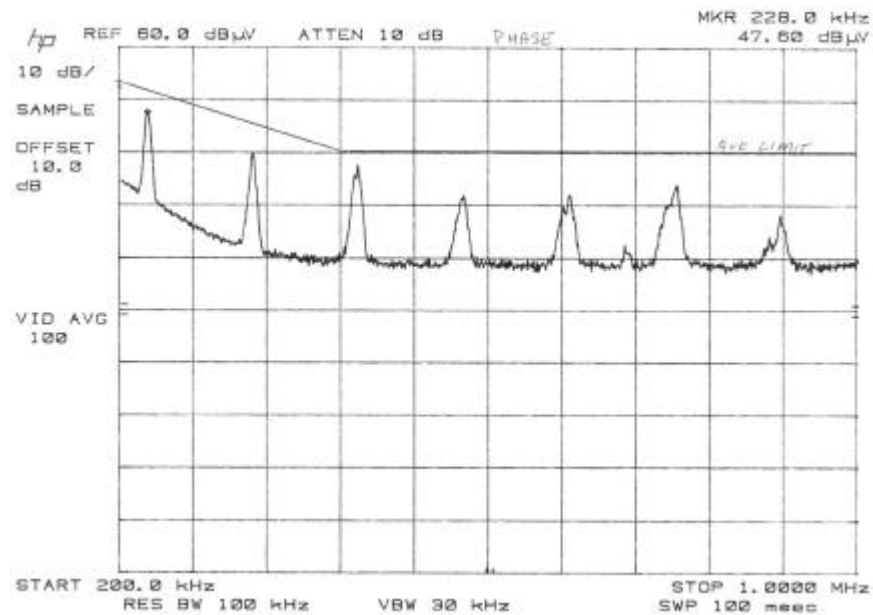
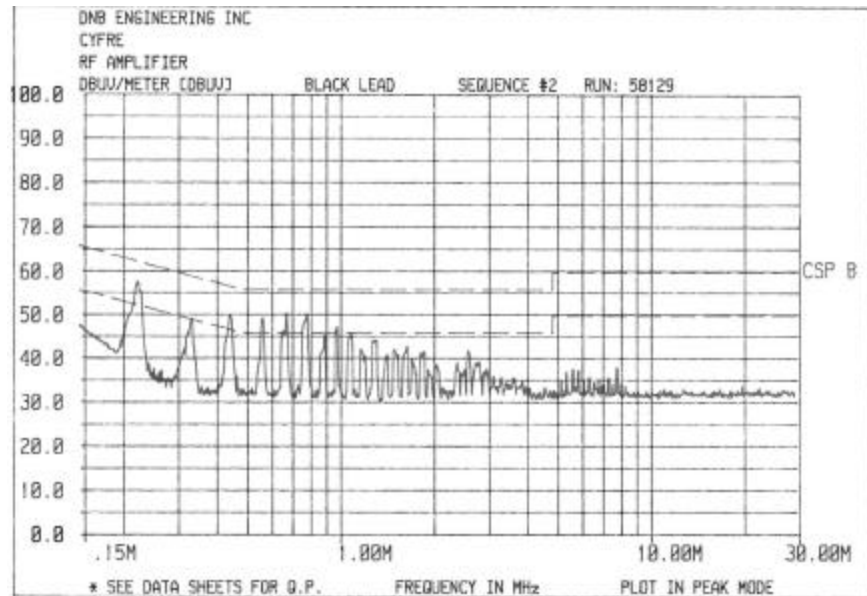
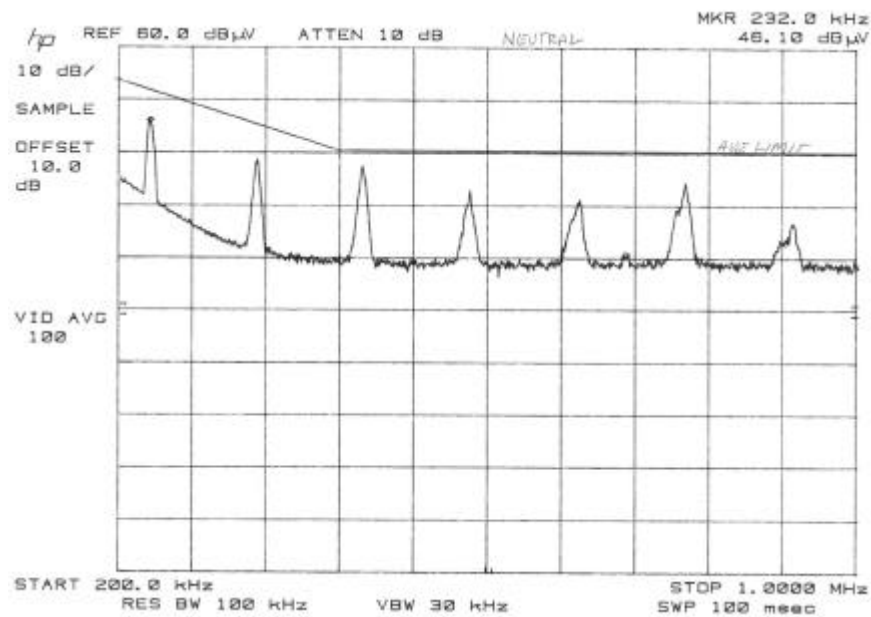
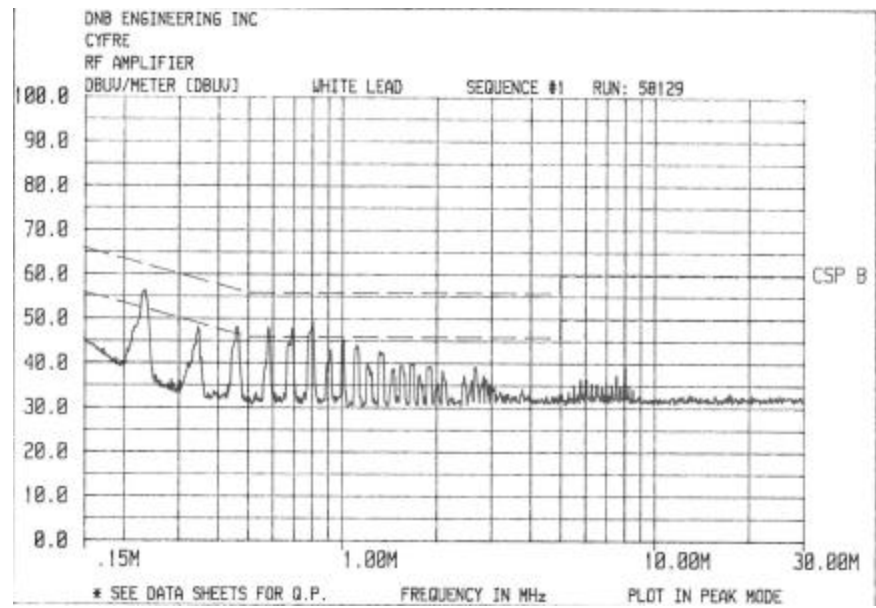
CONDUCTED EMISSIONS - Line

Figure 9: Conducted Emissions

CONDUCTED EMISSIONS - Neutral

RADIATED EMISSIONS

Definition:

Emissions which emanate from the EUT.

Test Method: FCC Part 15 Class B (CISPR 22)

To measure radiated emissions, the EUT was set up on the 10 meter open air test site. The EUT is placed on a wooden Table, which rests upon a wooden turntable. The top of the table is one meter above the ground, and the turntable can be rotated 360 degrees. For each frequency measured, the antenna is raised and lowered for both horizontal and vertical polarities to obtain the maximum reading on the analyzer. The turntable is also rotated throughout the 360 degrees in azimuth to determine the position of the maximum emissions. The applicable frequency range is searched using the antennas listed below. The respective antenna and preamplifier were connected to an HP 8568B Spectrum Analyzer. Preamplifiers were used for all ranges to achieve the needed dynamic range.

Test Results:

All readings were below the expectable limit.

FIGURE 10: RADIATED EMISSIONS.

		5969 Robinson Avenue Riverside, CA 92503 (951) 637-2630 FAX (951) 637-2704				Radiated Emissions											
DNB Job Number:		58129				Date: 11 Apr 2005				Conformance Standards [X] FCC Part 15 [X] IC Cispr 22							
Customer:		Janizary Holdings Inc															
Model Number:		CB-HP-800				Serial Number:											
Description:		RF amplifier															
		Bcn	Log	Cbl	Amp	Dis	Corr	Lim	Delta	Corr	Lim	Delta	Typ	Tbl	Pl	Hgt	
31.2	26.8	12.4	0	0.6	-24.4	0	15.4	30	-14.6	6	32	-26	PK	0	H	2.66	
122.2	29.2	11.2	0	1.5	-24.2	0	17.7	30	-12	8	32	-24	PK	0	H	2.66	
224.19	31.4	14.8	0	2.2	-24.2	0	24.2	30	-5.8	16	32	-16	PK	0	H	2.66	
226.35	26.9	0	12.4	2.2	-24.2	0	17.3	30	-13	7	32	-25	PK	0	H	1.41	
500.93	27.2	0	18.2	3.7	-24.8	0	24.3	37	-13	16	71	-55	PK	0	H	1.41	
33.5	32.7	12	0	0.6	-24.3	0	21	30	-9	11	32	-21	PK	0	V	1	
141.5	33.6	11.6	0	1.7	-24.2	0	22.7	30	-7.3	14	32	-18	PK	0	V	1	
223	26.1	14.7	0	2.2	-24.2	0	18.8	30	-11	9	32	-23	PK	0	V	1	
226.78	30.2	0	12.4	2.2	-24.2	0	20.6	30	-9.4	11	32	-21	PK	0	V	1	
501.55	30.1	0	18.2	3.7	-24.8	0	27.2	37	-9.8	23	71	-48	PK	0	V	1	

2.1055 Measurement of Frequency Stability (IC RSS-131)

The EUT is a power amplifier and contains no circuitry for generating or stabilizing the RF signal. The driver will be responsible for this task.

2.1057 Frequency Spectrum to be Investigated

The Frequency was searched from the lowest radio frequency generated in the equipment through the 10th harmonic of the carrier frequency.

RF Exposure – MPE Calculations

Input

Transmitter Power: 202 mW

Antenna Gain: 15 dB

Cable loss: 1.13 dB @ 824 – 894 MHz

Frequency range: 824-894 MHz

Assumptions

1. A single $\frac{1}{4}$ wavelength radiating antenna is assumed.
2. Closest exposure distance is assumed to be 30 cm (50 cm recommended in manual)

RF Exposure – MPE Calculations

Calculations

The following results shall be assumed to be accurate for the far-field only. These predictions will over-estimate power density in the near-field. Based on the use of a ¼ wavelength radiator, a distance of 20 cm is considered to be in the far-field for all cases.

For the purposes of these calculations a distance of 30cm was used. The actual distance as specified in the user manual is 50cm. 30cm represents the worst case configuration assuming an incorrect installation.

$$S = PG/4 \cdot \pi \cdot R^2$$

@ 824 – 894 MHz

P is 202 mW

G is 13.87dB (Antenna gain – loss) or $10^{(13.87/10)}$ or 24.378

R is 30 cm

$$\underline{S = 0.436 \text{ mW/cm}^2}$$

For Occupational/Controlled Exposure

From 300 to 1500 MHz, power density limit is f/300 mW/cm²

@ 824 MHz, power density limit is **2.75 mW/cm² for 6 minutes.**

For General Population/Uncontrolled Exposure

From 300 to 1500 MHz, power density limit is f/1500 mW/cm²

@ 824 MHz, Power density limit is **0.55 mW/cm² for 30 minutes.**

Conclusion: Meets MPE limits

Appendix A

Photographs

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PHOTOS: RADIATED EMISSIONS: BICON

Notes:



PHOTOS: RADIATED EMISSIONS: LOG

Notes:



PHOTOS: RADIATED FIELD STRENGTH OF SPURIOUS EMISSIONS

Notes:



**PHOTO: RF POWER OUTPUT, EMISSIONS LIMITATIONS
GSM/TDMA, OCCUPIED BANDWIDTH
GSM/TDMA, CONDUCTED SPURIOUS
EMISSIONS AT ANTENNA TERMINALS**

Notes:

