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10. EMISSION MASKS

FCC Rules

Test Requirement(s):

§ 90.210 Emission masks:

Except as indicated elsewhere in this part, transmitters used in the radio services governed by this part must comply with the emission masks outlined in this section. Unless otherwise stated, per paragraphs (d)(4), (e)(4), and (o) of this section, measurements of emission power can be expressed in either peak or average values provided that emission powers are expressed with the same parameters used to specify the unmodulated transmitter carrier power. For transmitters that do not produce a full power unmodulated carrier, reference to the unmodulated transmitter carrier power refers to the total power contained in the channel bandwidth. Unless indicated elsewhere in this part, the table in this section specifies the emission masks for equipment operating under this part.

APPLICABLE EMISSION MASKS

Frequency band (MHz)	Mask for equipment with audio low pass filter	Mask for equipment without audio low pass filter		
Below 25 ¹	A or B	A or C		
25-50	В	С		
72-76	В	С		
150-174 ²	B, D, or E	C, D or E		
150 paging only	В	С		
220-222	F	F		
421-512 ^{2 5}	B, D, or E	C, D, or E		
450 paging only	В	G		
806-809/851-854	В	Н		
809-824/854-869 ^{3 5}	В	G		
896-901/935-940	l	J		
902-928	K	K		
929-930	В	G		
4940-4990 MHz	L or M	L or M		
5850-5925 ⁴				
All other bands	В	С		

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- (g) *Emission Mask* G. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:
- (1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 10 kHz, but no more than 250 percent of the authorized bandwidth: At least 116 log (fd/6.1) dB, or 50 + 10 log (P) dB, or 70 dB, whichever is the lesser attenuation;
- (2) On any frequency removed from the center of the authorized bandwidth by more than 250 percent of the authorized bandwidth: At least 43 + 10 log (P) dB.
- (j) Emission Mask J. For transmitters that are not equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power of the transmitter (P) as follows:
- (1) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 2.5 kHz, but no more than 6.25 kHz: At least 53 log (fd/2.5) dB;
- (2) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 6.25 kHz, but no more than 9.5 kHz: At least 103 log (fd/3.9) dB;
- (3) On any frequency removed from the center of the authorized bandwidth by a displacement frequency (fd in kHz) of more than 9.5 kHz: At least 157 log (fd/5.3) dB, or 50 + 10 log (P) dB or 70 dB, whichever is the lesser attenuation.

Test Procedures:

The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.

Sufficient scans were taken to show Emission Mask.

Test Results: The EUT complies with the requirements of this section.

Input Signal	Input Level (dBm)	Maximum Amp Gain
929 MHz ~ 930 MHz iDEN 25 kHz	DL : -10 dBm	DL : 47 dB
935 MHz ~ 940 MHz FSK(12.5 kHz)	DL : -10 dBm	DL : 47 dB

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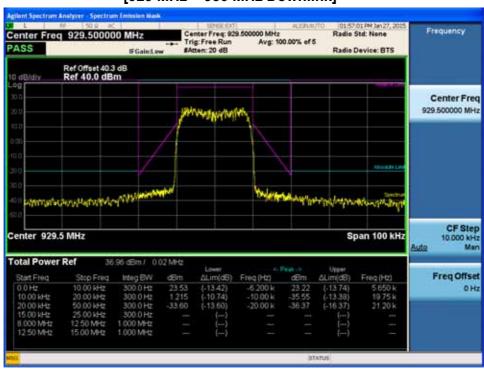
Plots of Emission Mask J

[935 MHz ~ 940 MHz Downlink]



Plots of Emission Mask G

[929 MHz ~ 930 MHz Downlink]



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11. SPURIOUS AND HARMONIC EMISSION AT ANTENNA TERMINAL

FCC Rules

Test Requirement(s):

§ 2.1051 Measurements required: Spurious emissions at antenna terminals:

The radio frequency voltage or powers generated within the equipment and appearing on a spurious frequency shall be checked at the equipment output terminals when properly loaded with a suitable artificial antenna. Curves or equivalent data shall show the magnitude of each harmonic and other spurious emission that can be detected when the equipment is operated under the conditions specified in § 2.1049 as appropriate. The magnitude of spurious emissions which are attenuated more than 20 dB below the permissible value need not be specified.

§ 24.133 Emission limits

- (a) The power of any emission shall be attenuated below the transmitter power (P), as measured in accordance with § 24.132(f), in accordance with the following schedule:
- (1) For transmitters authorized a bandwidth greater than 10 kHz:
- (i) On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (f_d in kHz) of up to and including 40 kHz: at least 116 Log₁₀ ((f_d 10)/6.1) decibels or 50 plus 10 Log₁₀ (P) decibels or 70 decibels, whichever is the lesser attenuation;
- (ii) On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 40 kHz: at least 43 10 Log₁₀ (P) decibels or 80 decibels, whichever is the lesser attenuation.
- (2) For transmitters authorized a bandwidth of 10 kHz:
- (i) On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (f_d in kHz) of up to and including 20 kHz: at least 116 × Log₁₀ ((f_d 5)/3.05) decibels or 50 10×Log₁₀ (P) decibels or 70 decibels, whichever is the lesser attenuation;
- (ii) On any frequency outside the authorized bandwidth and removed from the edge of the authorized bandwidth by a displacement frequency (f_d in kHz) of more than 20 kHz: at least 43 10 Log $_{10}$ (P) decibels or 80 decibels, whichever is the lesser attenuation.
- **(b)** The measurements of emission power can be expressed in peak or average values provided they are expressed in the same parameters as the transmitter power.
- **(c)** When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

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(d) The following minimum spectrum analyzer resolution bandwidth settings will be used: 300 Hz when showing compliance with paragraphs (a)(1)(i) and (a)(2)(i) of this section; and 30 kHz when showing compliance with paragraphs (a)(1)(ii) and (a)(2)(ii) of this section.

§ 90.669 Emission limits.

(a) On any frequency i n an MTA licensee's spectrum block that is adjacent to a non-M TA frequency, the power of any emissions hall be attenuated below the transmitter power (P) by at least 43 plus 10 log10(P) decibels or 80 decibels, whichever is the lesser attenuation.

NOTE: The measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power. (b) When an emission outside of the authorized bandwidth causes harmful interference, the Commission may, at its discretion, require greater attenuation than specified in this section.

* Note

Test (a)-(1) was replaced by a band edge test.

Test Procedures:

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 any out of band emissions up to 10th harmonic

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IC Rules

Test Requirement(s): RSS-131 6.4

Spurious emissions of zone enhancers and translators shall be suppressed as much as possible.

Spurious emissions shall be attenuated below the rated power of the enhancer by at least:

43 + 10 Log10(Prated in watts), or 70 dB, whichever is less stringent.

Note: If the minimum standard is not met, check to see if the input signal generators have a high harmonic content.

Test Procedures: RSS-131 4.4 4.4.1 Multi-channel Enhancer

The spurious emissions of the equipment under test shall be measured using the two-tone method in section 4.3.1, with the two tones Po1 and Po2 set to the required levels. Using a spectrum analyser with a resolution bandwidth set at 100 kHz, search for spurious emissions from 30 MHz to at least 5 times the highest RF passband frequency. The search may omit the band that contains the test tones and intermodulation products.

4.4.2 Single channel Enhancer

The enhancer shall be operated as described in section 4.3.2 during the search for spurious emissions.

Using a spectrum analyser with a resolution bandwidth set at 100 kHz, search for spurious emissions from 30 MHz to at least 5 times the highest RF passband frequency. The search may omit the band that contains the input signal.

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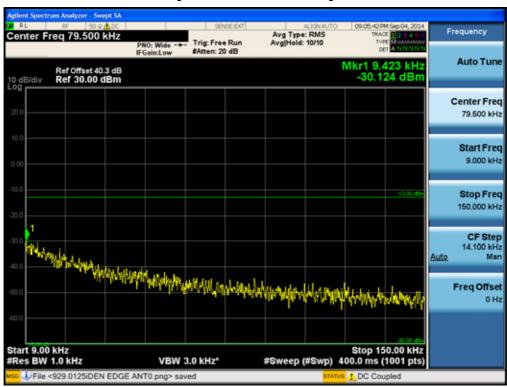


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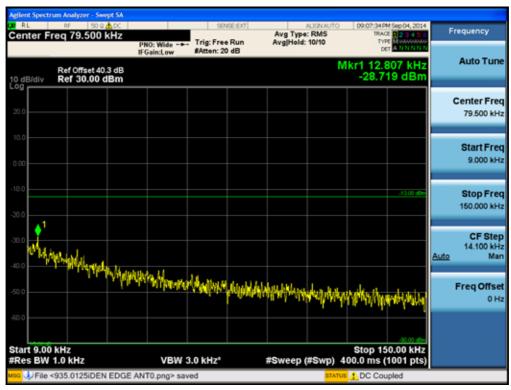
Single channel Enhancer Plots of Spurious Emission **iDEN**

Conducted Spurious Emissions (9 kHz - 150 kHz)

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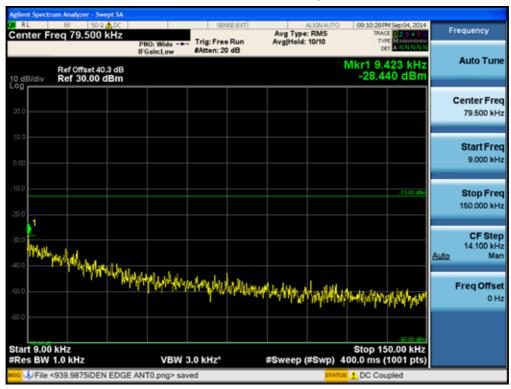


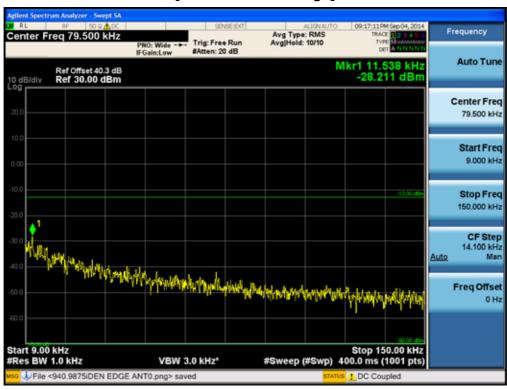
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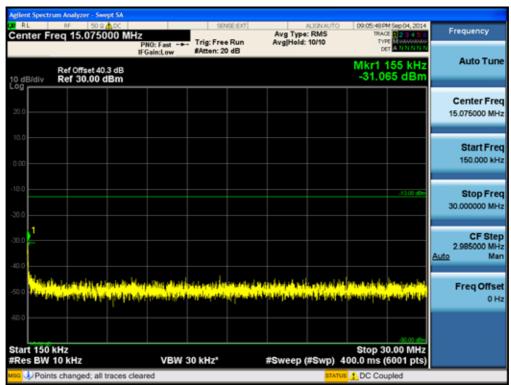




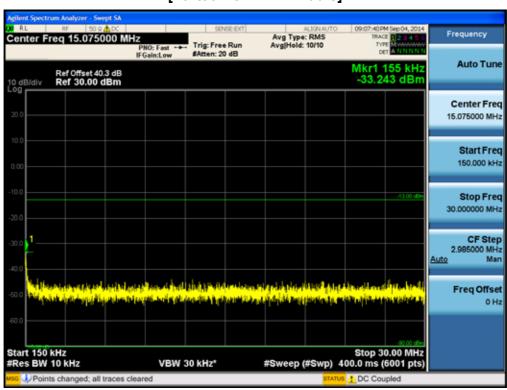
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Conducted Spurious Emissions (150 kHz – 30 MHz)

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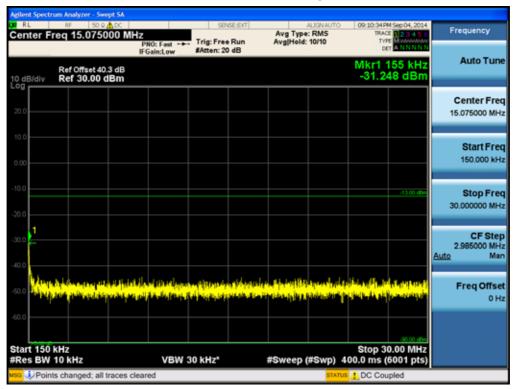
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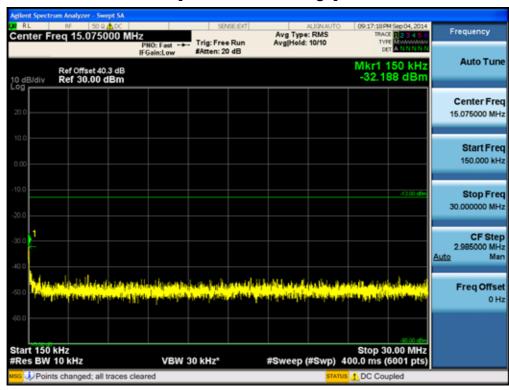




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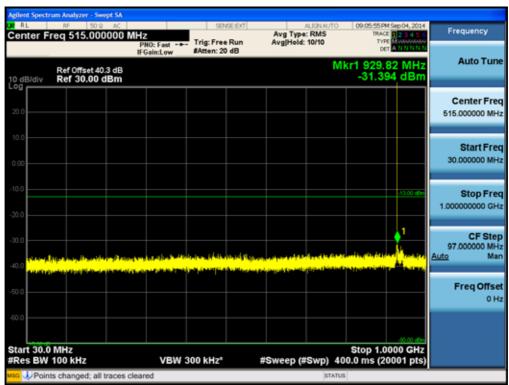




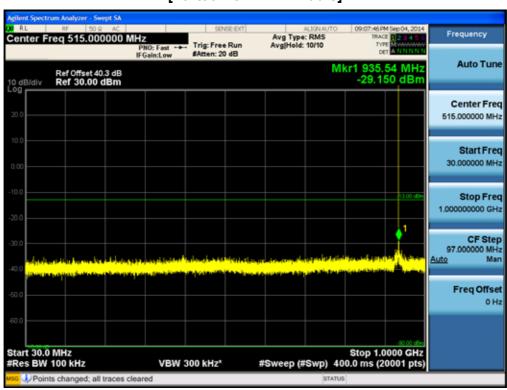
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Conducted Spurious Emissions (30 MHz – 1 GHz)

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[Part90 Downlink Middle]



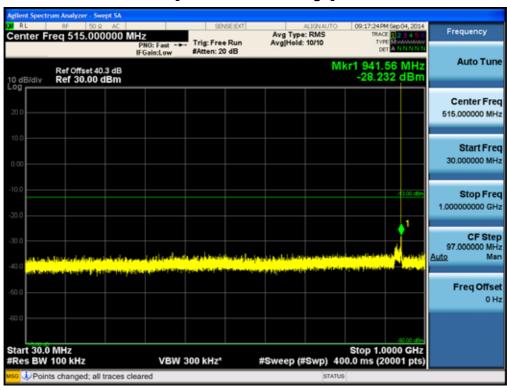
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Conducted Spurious Emissions (1 GHz –12.75 GHz) iDEN

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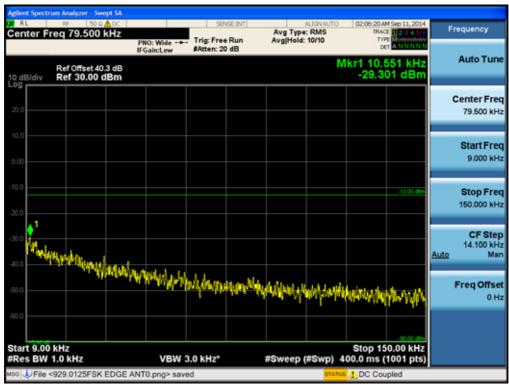




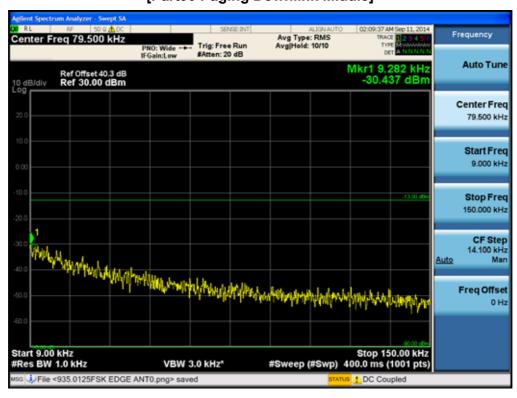


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FSK
Conducted Spurious Emissions (9 kHz – 150 kHz)
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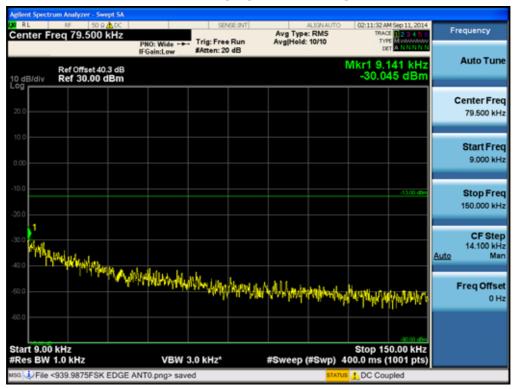
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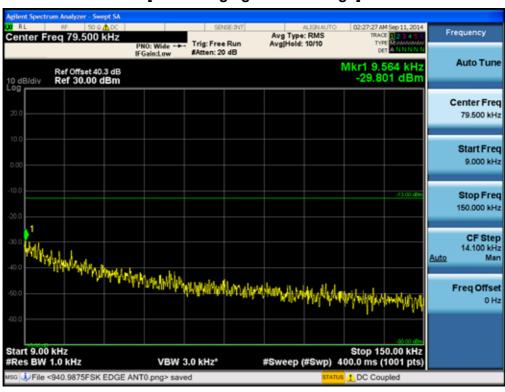


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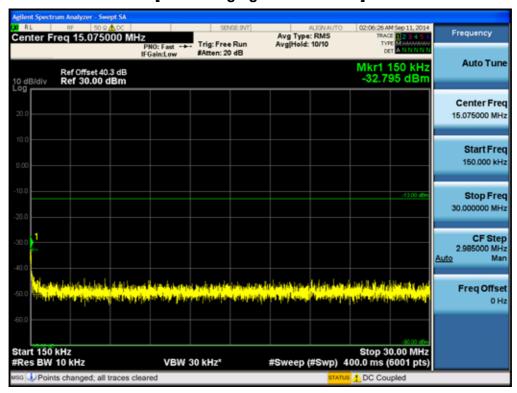
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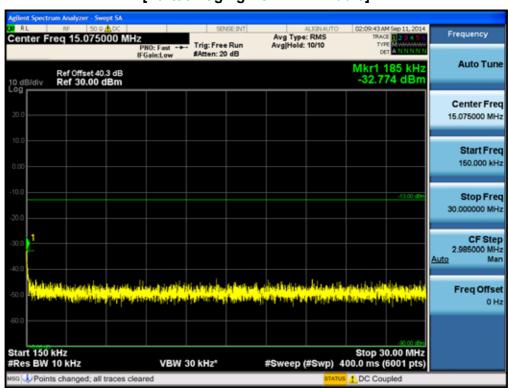


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Conducted Spurious Emissions (150 kHz – 30 MHz) [Part90 Paging Downlink Low]



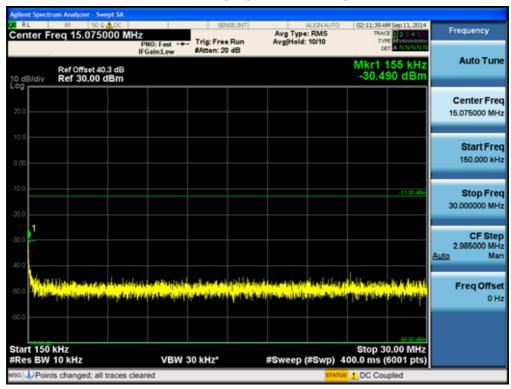
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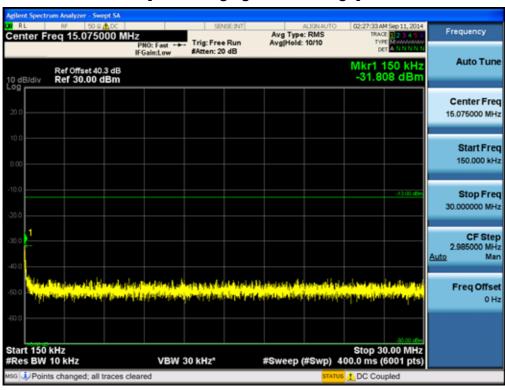


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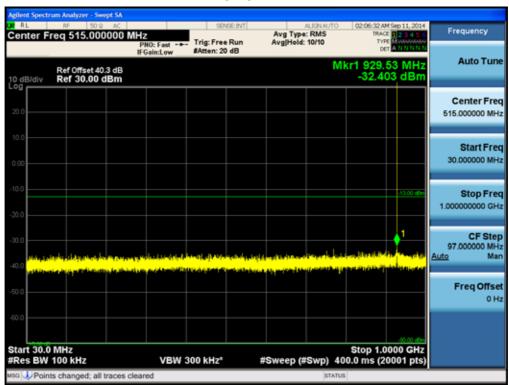




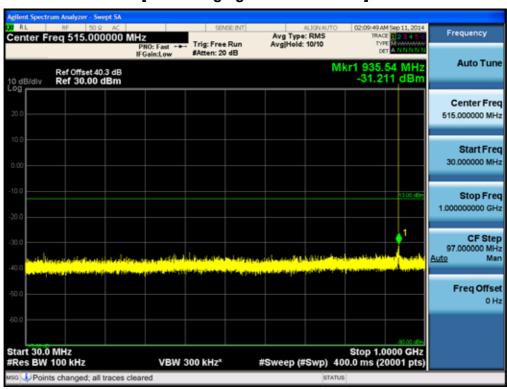
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Conducted Spurious Emissions (30 MHz – 1 GHz)

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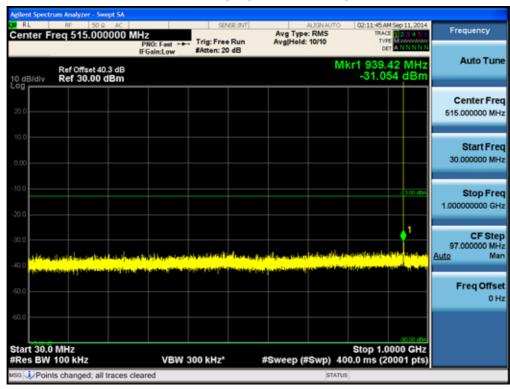


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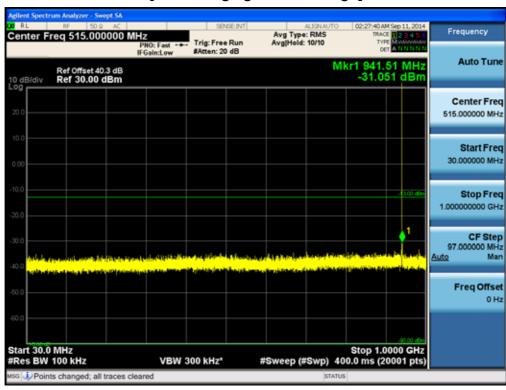


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[Part24 Paging Downlink High]





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Conducted Spurious Emissions (1 GHz –12.75 GHz) [Part90 Paging Downlink Low]



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[Part90 Paging Downlink High]



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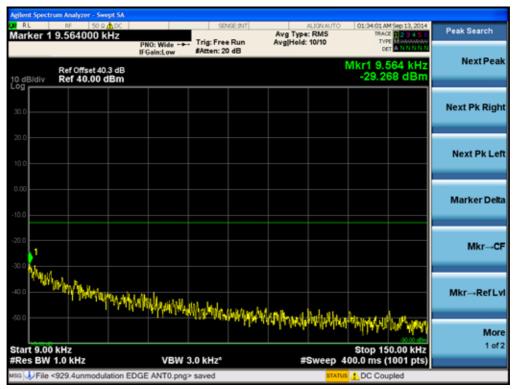




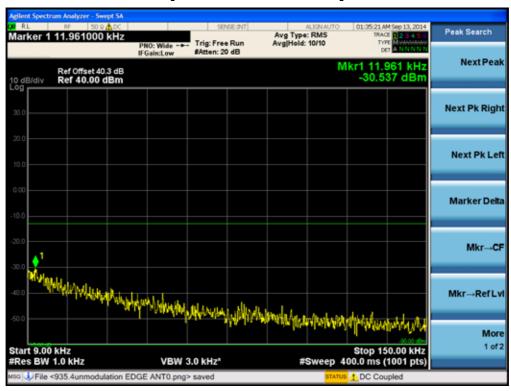
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Multi channel Enhancer Plots of Spurious Emission for IC Conducted Spurious Emissions (9 kHz – 150 kHz)

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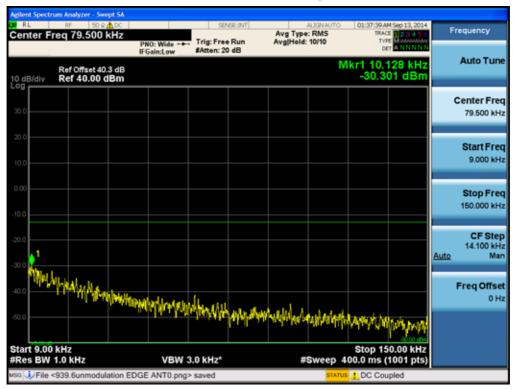


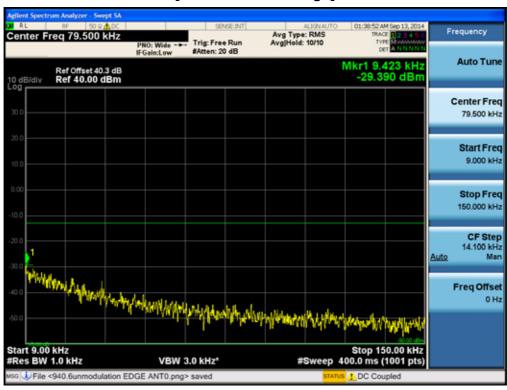
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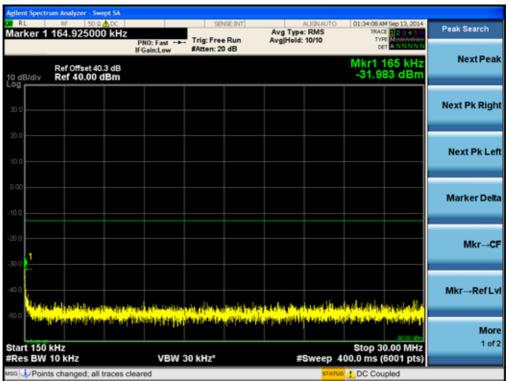




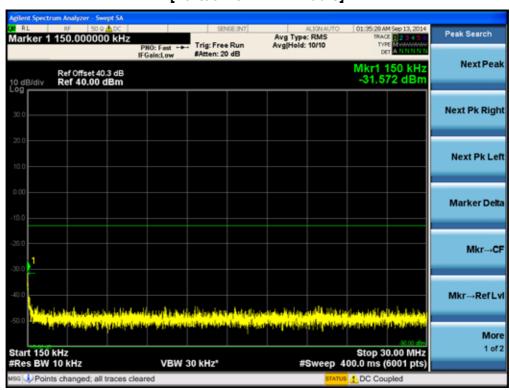
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Conducted Spurious Emissions (150 kHz - 30 MHz)

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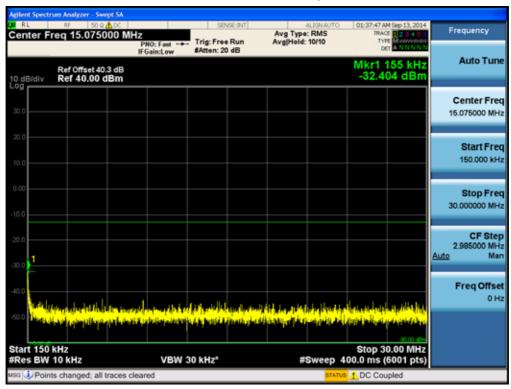


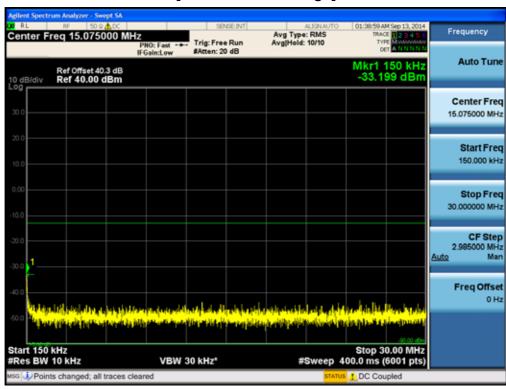
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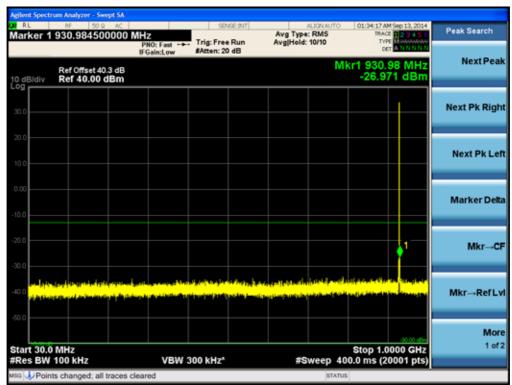




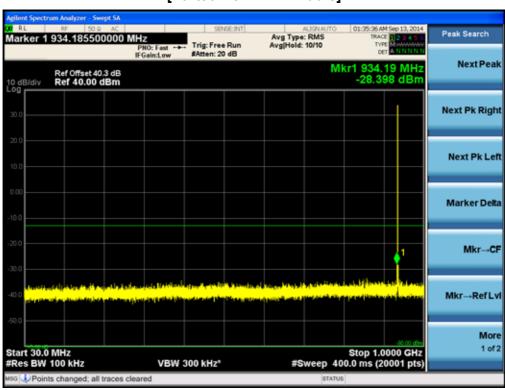
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Conducted Spurious Emissions (30 MHz – 1 GHz)

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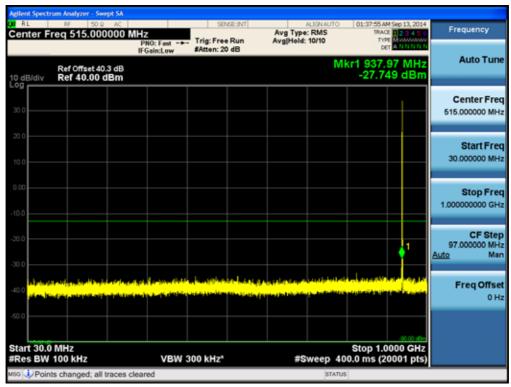


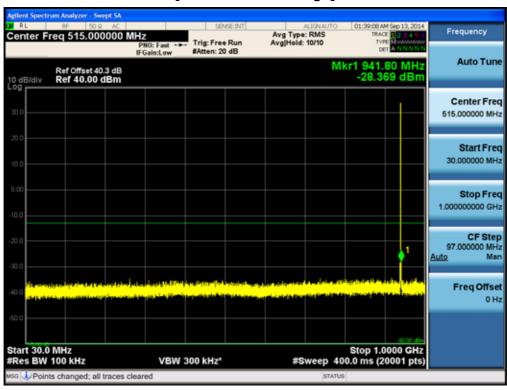
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Conducted Spurious Emissions (1 GHz –12.75 GHz)

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[Part90 Downlink Middle]





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[Part90 Downlink High]



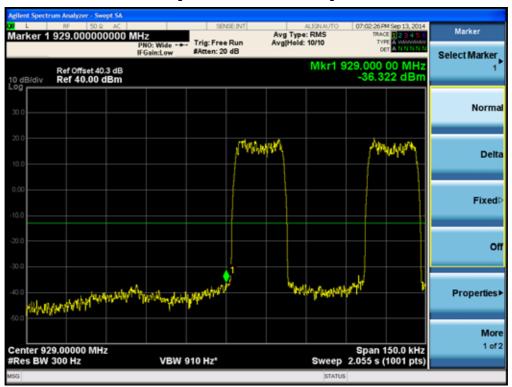




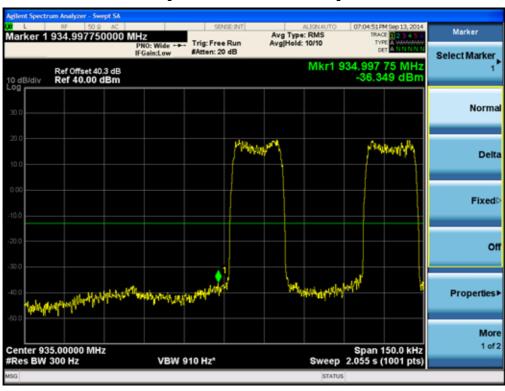
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Intermodulation Spurious Emissions for FCC iDEN

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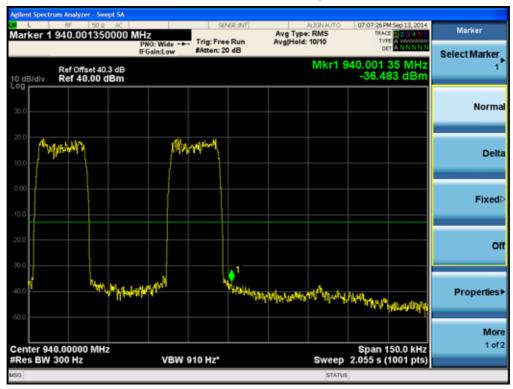


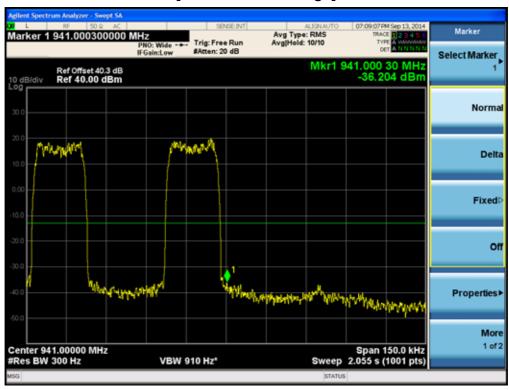
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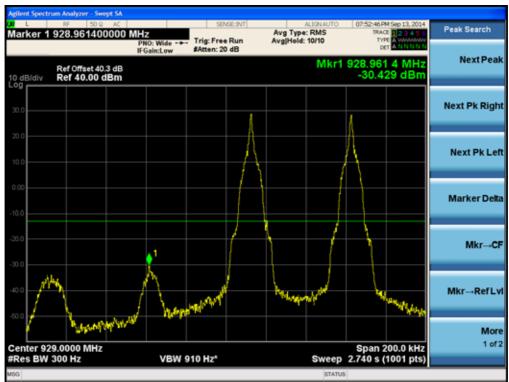




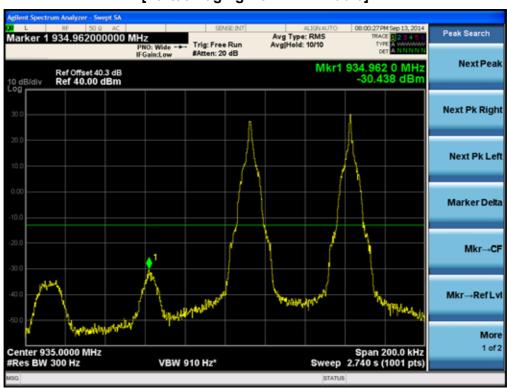
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FSK

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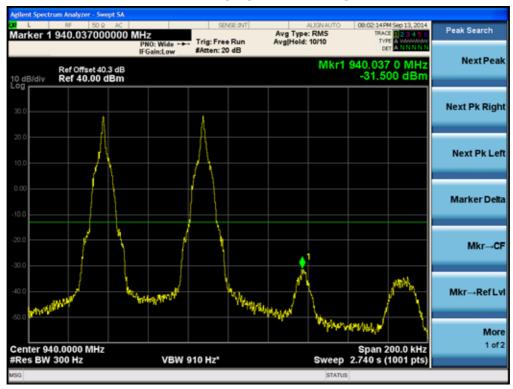
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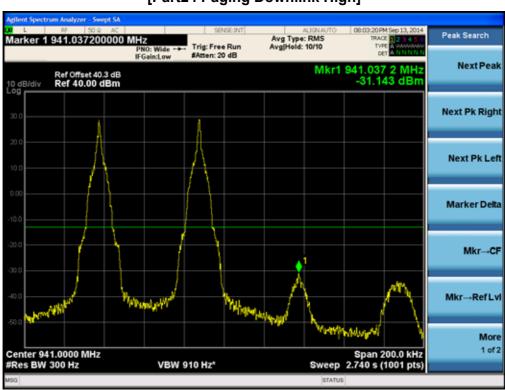


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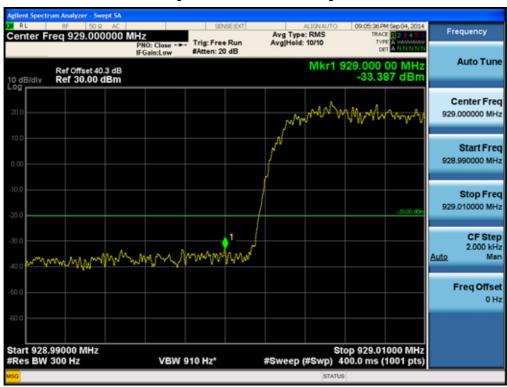




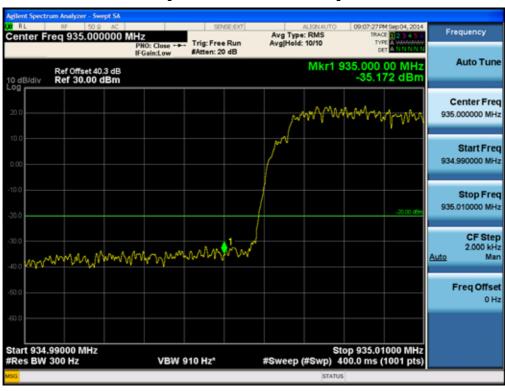
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Single channel Enhancer Band Edge iDEN

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FSK

[Part90 Paging Downlink Low]



[Part90 Paging Downlink Middle]





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[Part90 Paging Downlink High]



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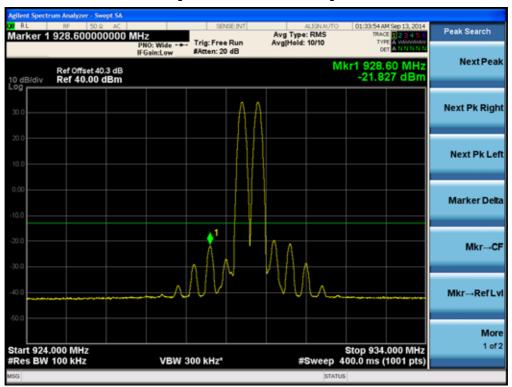




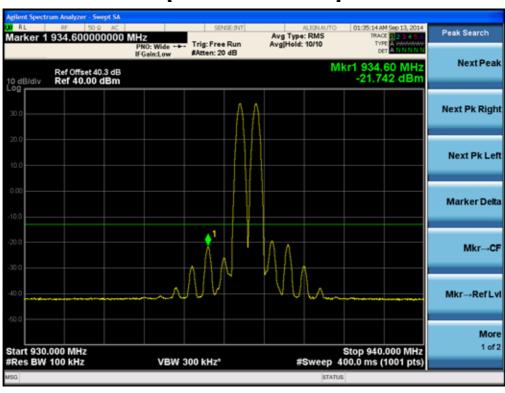
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Multi channel Enhancer Band Edge for IC 900 MHz Band

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[Part90 Downlink Middle]

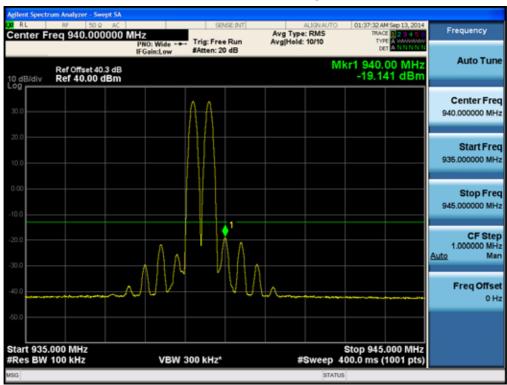


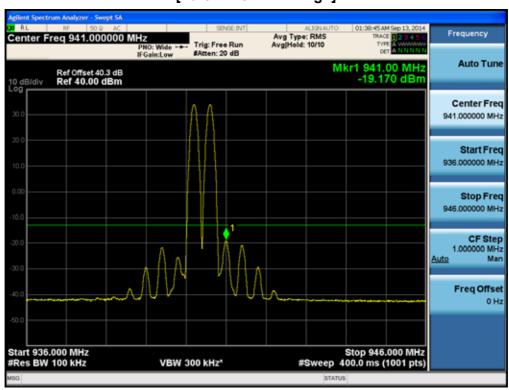
F-01P-02-014 (Rev.00) HCT CO., LTD FCC ID: W6UHM900I / IC: 9354A-HM900I



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12. RADIATED SPURIOUS EMISSIONS

Test Requirement(s): § 2.1053 Measurements required: Field strength of spurious radiation.

§ 2.1053 (a) Measurements shall be made to detect spurious emissions that may be Radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of § 2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from half-wave dipole antennas.

- § 2.1053 (b): The measurements specified in paragraph (a) of this section shall be made for the following equipment:
- (1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.
- (2) All equipment operating on frequencies higher than 25 MHz.
- (3) All equipment where the antenna is an integral part of, and attached directly to The transmitter.
- **(4)** Other types of equipment as required, when deemed necessary by the Commission.

Test Procedures: As required by 47 CFR 2.1053, *field strength of radiated spurious measurements* were made in accordance with the procedures of ANSI/TIA-603-C-2004 "Land Mobile FM or PM Communications Equipment Measurement and Performance Standards".

Radiated emission measurements were performed inside a 3 meter semi-anechoic chamber.

The EUT was set at a distance of 3m from the receiving antenna. The EUT's RF ports were terminated to 50ohm load. The EUT was set to transmit at the low, mid and high

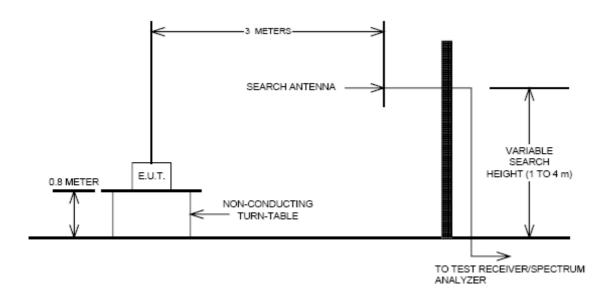
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channels of the transmitter frequency range at its maximum power level. The EUT was rotated about 360 and the receiving antenna scanned from 1-3m in order to capture the maximum emission. A calibrated antenna source was positioned in place of the EUT and the previously recorded signal was duplicated. The maximum EIRP of the emission was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried, out with the receiving antenna in both vertical and horizontal polarization. Harmonic emissions up to the 10th or 40 GHz, whichever was the lesser, were investigated.

Radiated Spurious Emissions Test Setup



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Test Result:

Note.

Input signal is the CW signal.

Harmonics were not found.

[Downlink]

		Freq.(MHz)	Substitute	Ant. Gain			EIRP	Margin	
	Tx Freq.(MHz)		Level	(dBi)	C.L	Pol.	(dBm)	(dB)	
			[dBm]	į.					
	929.0125								
120 Vac 935.0125 No Peak Found									
	940.9875								

Voltage supplied to EUT Freq.(N		Tx req.(MHz)	Substitute	Ant. Gain			EIRP	Margin
	Tx Freq.(MHz)		<u>Level</u>	(dBi)	C.L	Pol.	(dBm)	(dB)
	1()		[dBm]					
	929.0125							
-48 Vdc 935.0125 No Peak Found								
	940.9875							

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13. FREQUENCY STABILITY OVER TEMPERATURE AND VOLTAGE VARIATIONS

FCC Rules

Test Requirement(s): §2.1055(a)(1), § 24.135, § 90.213

Test Procedures:

As required by 47 CFR 2.1055, *Frequency Stability measurements* were made at the RF output terminals using a Spectrum Analyzer.

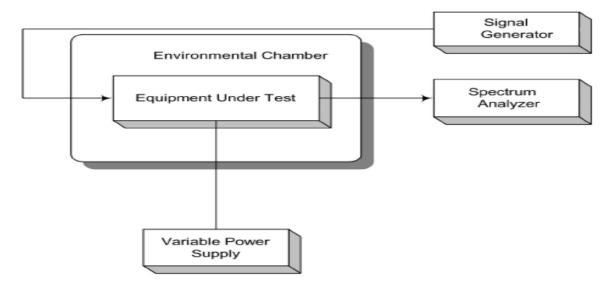
The EUT was placed in the Environmental Chamber.

A CW signal was injected into the EUT at the appropriate RF level. The frequency counter option on the Spectrum Analyzer was used to measure frequency deviations.

The frequency drift was investigated for every 10 $^{\circ}$ C increment until the unit is stabilized then recorded the reading in tabular format with the temperature range of -30 to 50 $^{\circ}$ C.

Voltage supplied to EUT is 110 Vac reference temperature was done at 20° C. The voltage was varied by \pm 15 % of nominal

Test Setup:



Test Results:

The E.U.T was found in compliance for Frequency Stability and Voltage Test

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IC Rules

Test Requirement(s): RSS-131 6.5

A band translator is essentially a repeater station and should introduce as little frequency error as possible. The frequency stability should therefore meet the objectives of the overall land mobile or cellular service for which it serves. Better frequency stability than the minimum standard cited below will therefore be required in some cases.

The frequency stability shall be within 1.5 parts per million (0.00015%).

Test Procedures: RSS-131 4.5

In addition, the local oscillator frequency stability of the band translator shall be reported. Frequency stability is a measure of the frequency drift due to temperature and supply voltage variations, with reference to the frequency measured at +20 °C and rated supply voltage.

The following temperature and supply voltage ranges apply:

- (a) at 10 degree intervals of temperatures between -30 °C and +50 °C, and at the manufacturer's rated-supply voltage; and
- (b) at +20 °C temperature and 15% supply voltage variations.

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AC power. Frequency Stability and Voltage Test Results

Reference: 120 Vac at 20°C Freq. = 935.0125 MHz

Voltage	Temp.	Frequency	Frequency	Deviation	ppm	
(%)	()	(Hz)	Error (Hz)	(Hz)		
	+20(Ref)	935012500. 0	0.0	0.0	0.0000	
	-30	935012500. 0	0.0	0.0	0.0000	
	-20	935012500. 0	0.0	0.0	0.0000	
	-10	935012500. 0	0.0	0.0	0.0000	
100%	0	935012500. 0	0.0	0.0	0.0000	
	+10	935012500. 0	0.0	0.0	0.0000	
	+30	935012500. 0	0.0	0.0	0.0000	
	+40	935012500. 0	0.0	0.0	0.0000	
	+50	935012500. 0	0.0	0.0	0.0000	
115%	+20	935012500. 0	0.0	0.0	0.0000	
85%	+20	935012500. 0	0.0	0.0	0.0000	

[Downlink]

DC power. Frequency Stability and Voltage Test Results

Reference: -48 Vdc at 20°C **Freq.** = 935.0125 MHz

Voltage	Temp.	Frequency	Frequency	Deviation	ppm	
(%)	()	(Hz)	Error (Hz)	(Hz)		
	+20(Ref)	935012500. 0	0.0	0.0	0.0000	
	-30	935012500. 0	0.0	0.0	0.0000	
	-20	935012500. 0	0.0	0.0	0.0000	
	-10	935012500. 0	0.0	0.0	0.0000	
100%	0	935012500. 0	0.0	0.0	0.0000	
	+10	935012500. 0	0.0	0.0	0.0000	
	+30	935012500. 0	0.0	0.0	0.0000	
	+40	935012500. 0	0.0	0.0	0.0000	
	+50	935012500. 0	0.0	0.0	0.0000	
115%	+20	935012500. 0	0.0	0.0	0.0000	
85%	+20	935012500. 0	0.0	0.0	0.0000	

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