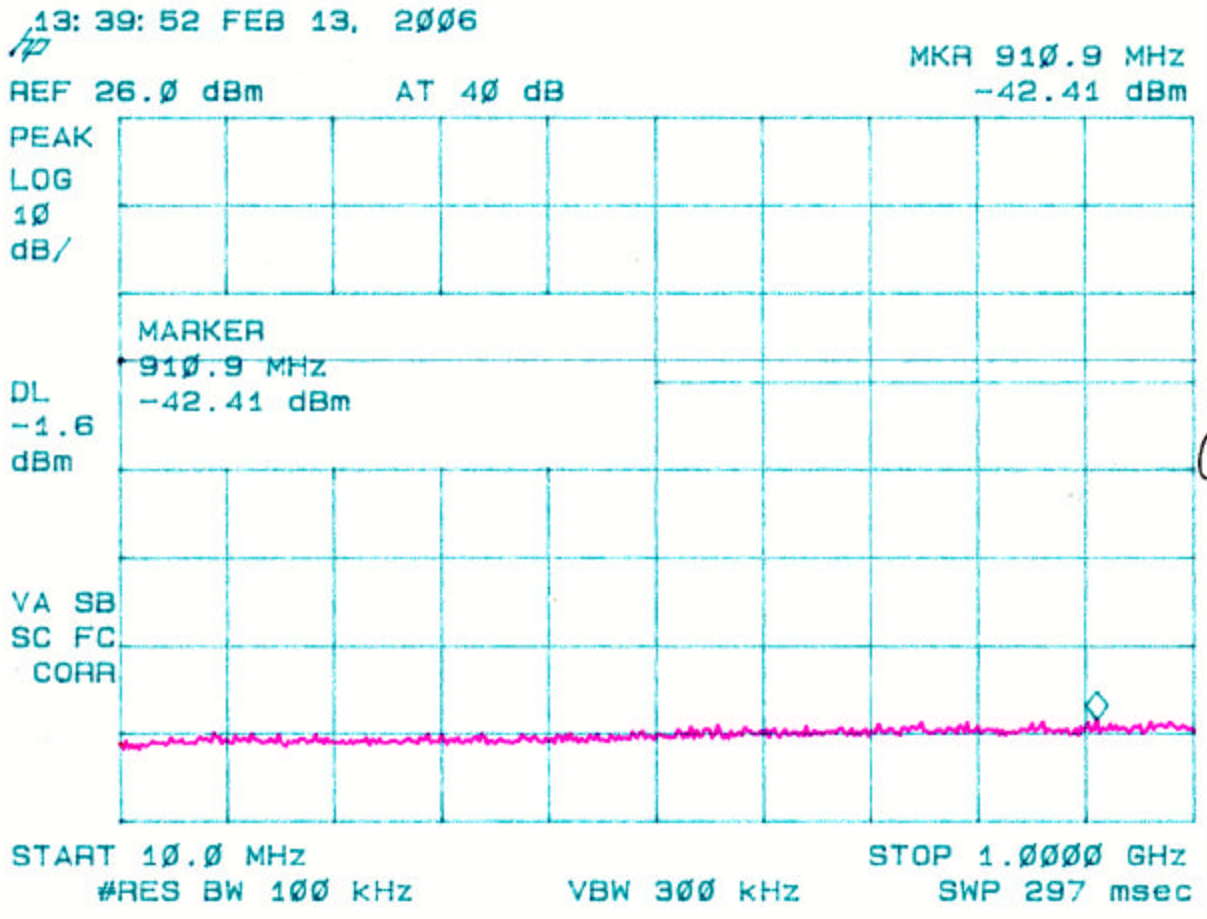
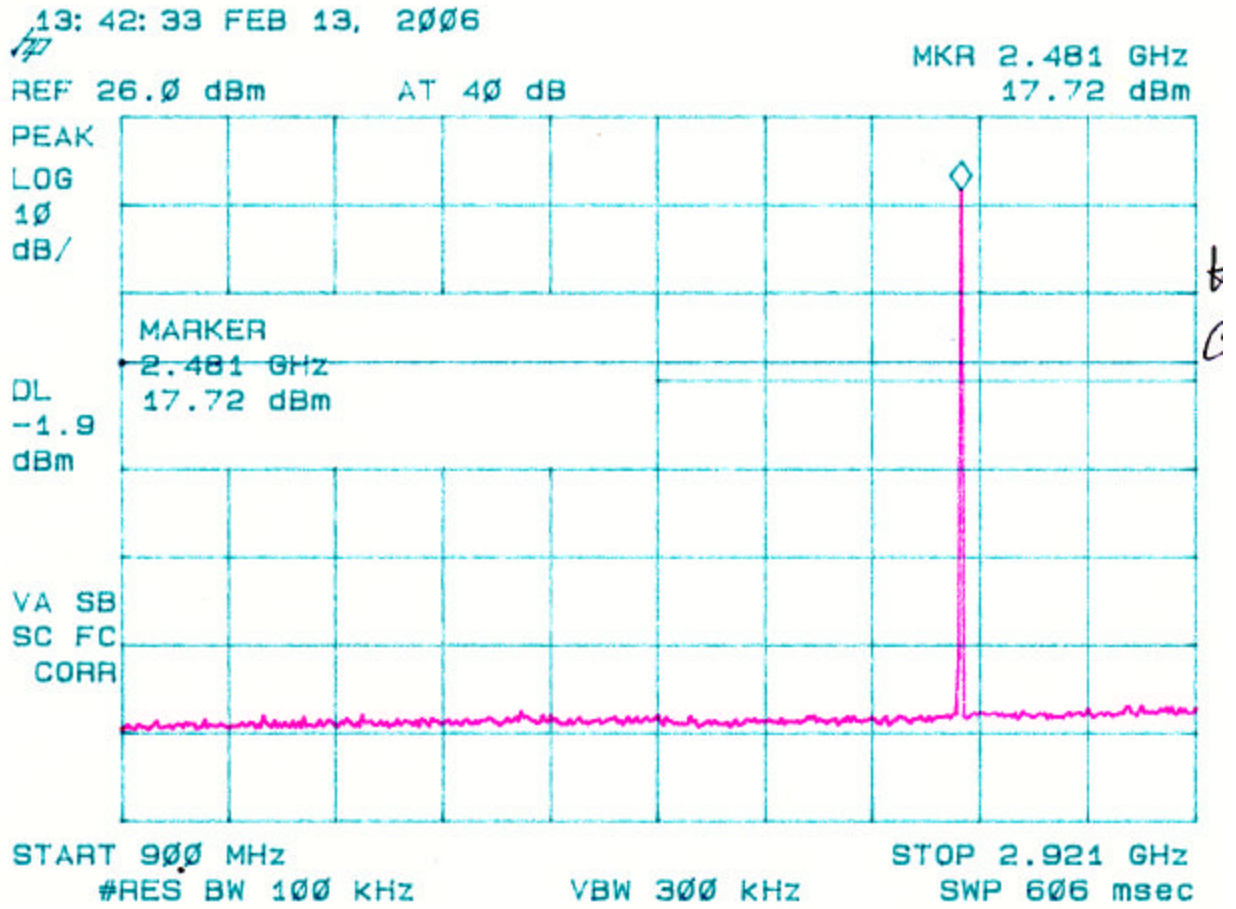


**Figure 4i**  
Antenna Conducted Spurious Emissions 15.247(c) High



**Figure 4j**  
Antenna Conducted Spurious Emissions 15.247(c) High



Note: Signal shown represents Fundamental Frequency.

Figure 4k  
Antenna Conducted Spurious Emissions 15.247(c) High

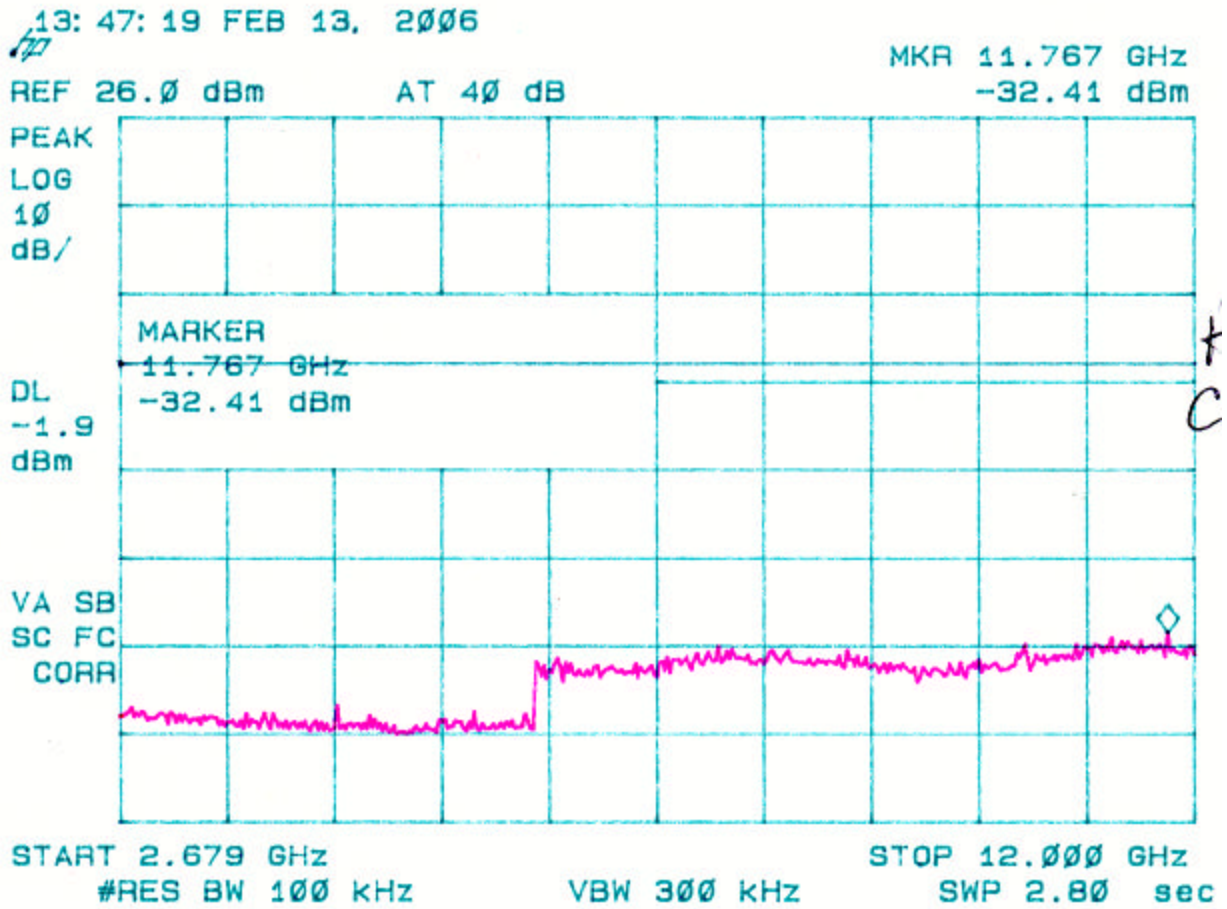
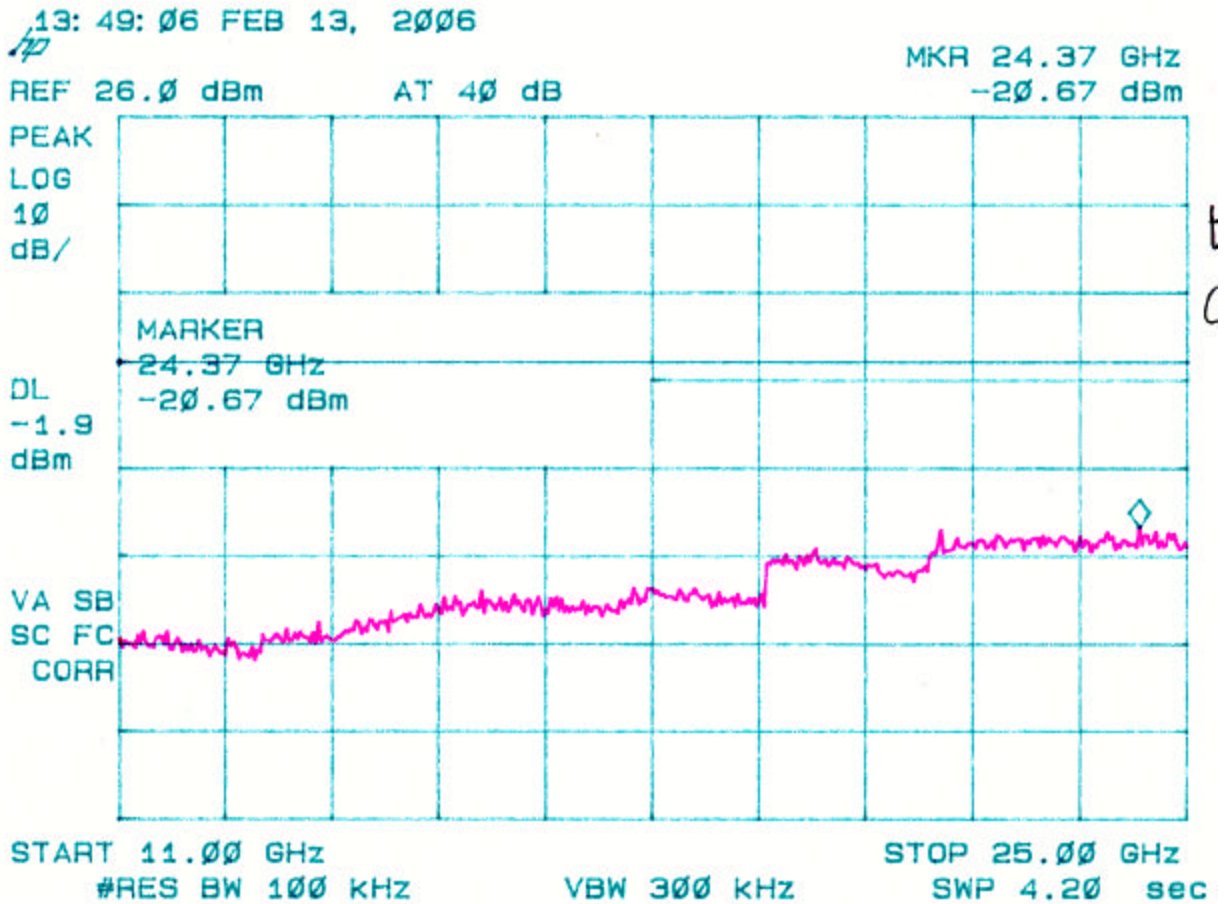


Figure 4l  
Antenna Conducted Spurious Emissions 15.247(c) High



## **2.8 Peak Radiated Spurious Emission in the Frequency Range 30 -25000 MHz (FCC Section 15.247(c))**

The EUT was hop-stopped and when possible, placed into a continuous transmit mode of operation. A preliminary scan was performed on the EUT to determine frequencies that were caused by the transmitter portion of the product. Significant emissions that fell within restricted bands were then measured on an OAT's site. Radiated measurements below 1 GHz were tested with a RBW = 120 kHz. Radiated measurements above 1 GHz were measured using a RBW = VBW = 1 MHz. The results of peak radiated spurious emissions falling within restricted bands are given in Table 4a –4u and Figure 4a – Figure 4u.

**Table 4a. PEAK RADIATED SPURIOUS EMISSIONS (Low)**  
**Parabolic Dish Antenna**

Radiated Spurious Emissions								
Test By:	Test:	Spurious Emissions-Parabolic Antenna-Low Channel			Client:	Cirronet		
AT	Project:	05-0311	Class:	Peak	Model:	WIT2410G		
Frequency Range		Table	Model	S/N	Valid	Calibrated:		
		2hn3mh	Model : SAS-571	S/N 605	Yes	01 APR 05		
		preamp		S/N	Yes	June/30/2005		
		flex2ft		S/N	Yes	05/Dec/2005		
		flex17ft		S/N	Yes	05/Dec/2005		
Frequency	Test Data	AF	Test Data	AF+CA-AMP	Results	Limits	Margi n	PK = n
(MHz)	(dBm)	Table	(dBuV)	(dB)	(uV/m)	(uV/m)	(dB)	/ QP
2401.55	-8.3	2hn3mh	98.7	31.6	3283436.7			PK
4803.351	-48.0	2hn3mh	59.0	5.4	1673.8	5000.0	9.5	PK
7205.45	-46.2	2hn3mh	60.8	10.7	3774.9	328343.7	38.8	PK**
9607.287	-66.2	2hn3mh	40.9	13.3	510.3	328343.7	56.2	PK**
12008.96	-66.9	2hn3mh	40.1	18.9	891.0	5000.0	15.0	PK**

Data corrected by 0.1 dB for loss of high pass filter, except to fundamental

\*\* Conversion from 1 meter to 3 meters = -9.54 dB

SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog ((-48.0 + 5.4 + 107)/20) = 1673.8

CONVERSION FROM dBm TO dBuV = 107 dB

Tester

Signature: 

Name: Austin Thompson

**Figure 4a - 1**  
**Peak Radiated Spurious Emission 15.247(c) Fundamental Low – Parabolic Dish**

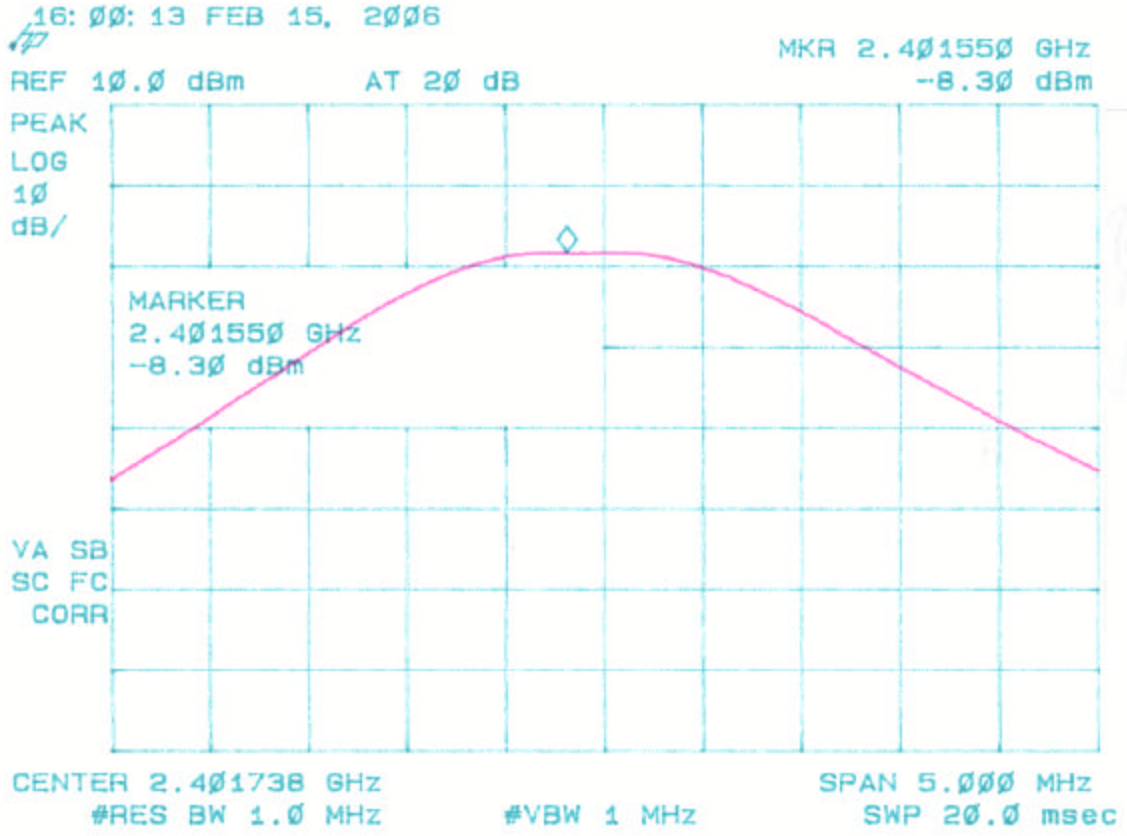




Figure 4a - 2  
Peak Radiated Spurious Emission 15.247(c) Low – Parabolic Dish

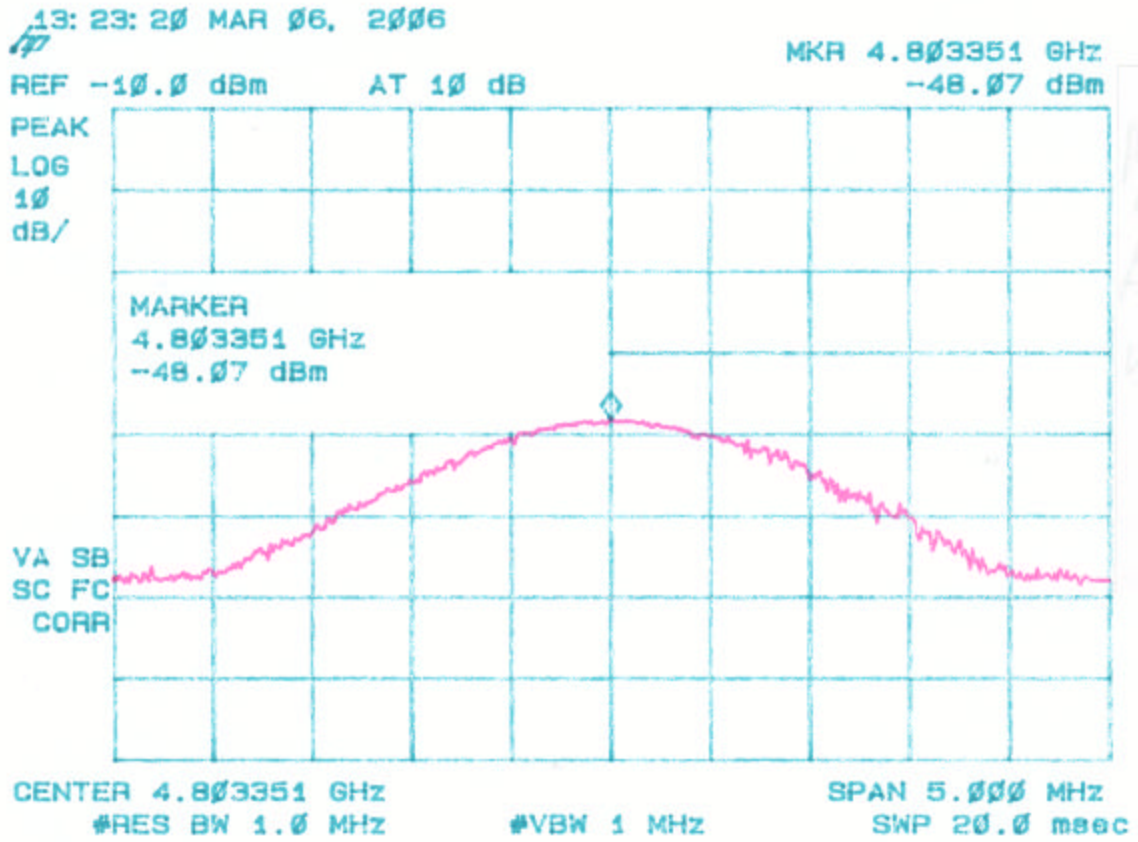
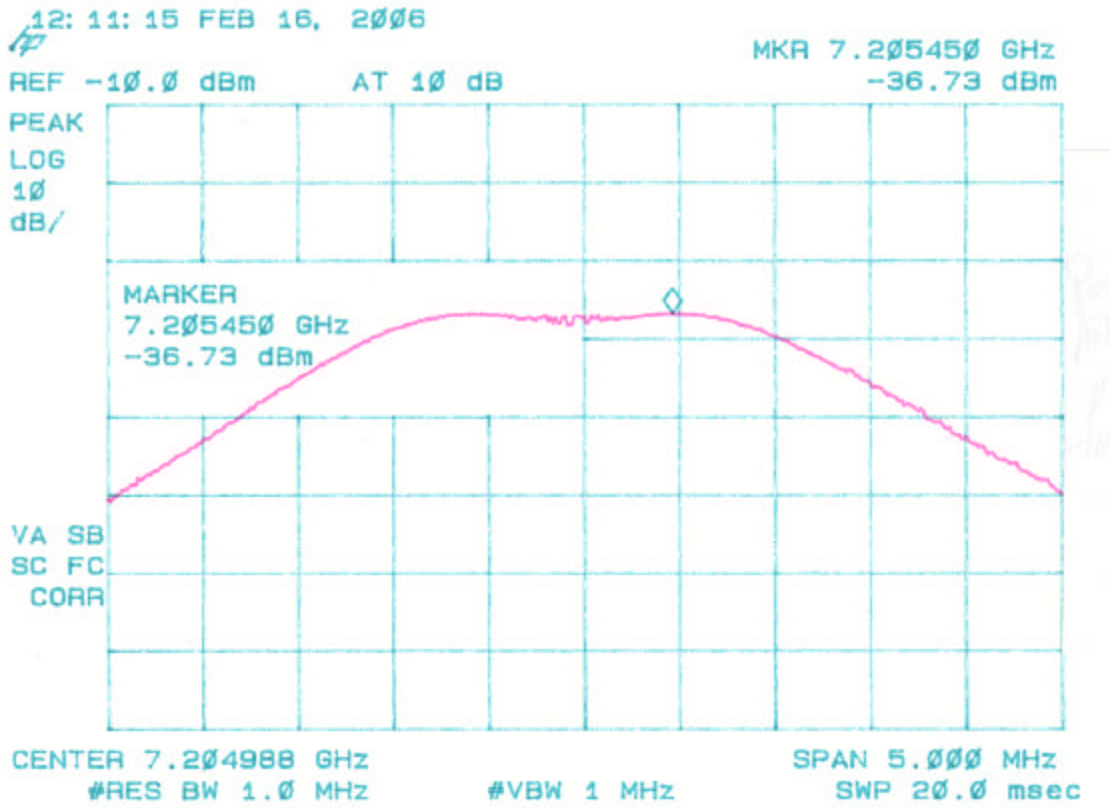
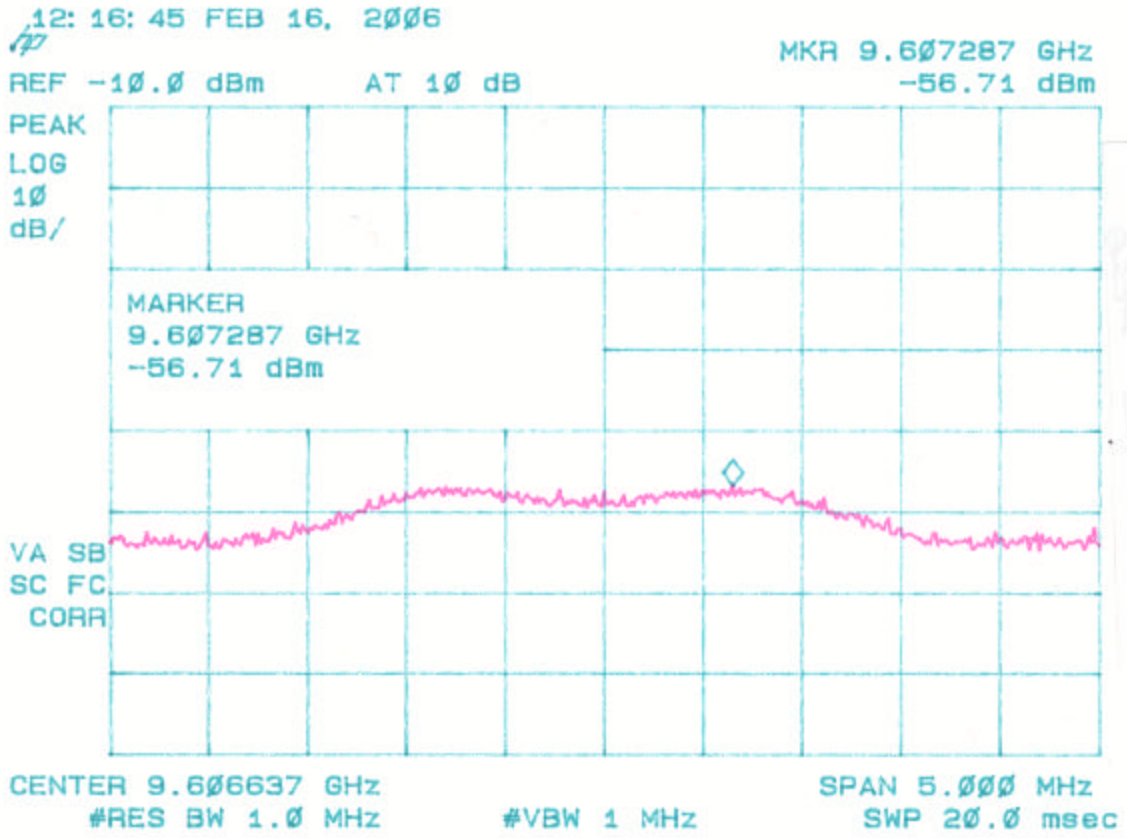




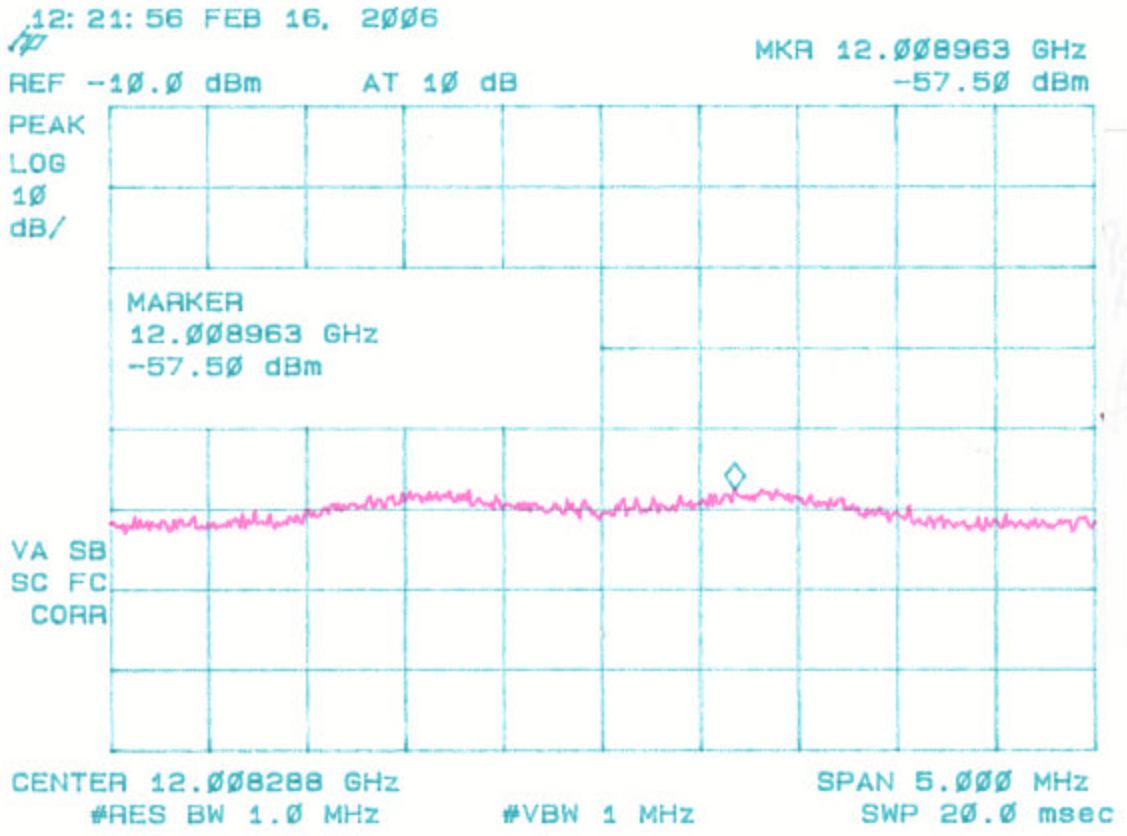
Figure 4a - 3  
Peak Radiated Spurious Emission 15.247(c) Low – Parabolic Dish



**Figure 4a - 4**  
**Peak Radiated Spurious Emission 15.247(c) Low – Parabolic Dish**



**Figure 4a - 5**  
**Peak Radiated Spurious Emission 15.247(c) Low – Parabolic Dish**



**Table 4b. PEAK RADIATED SPURIOUS EMISSIONS (Mid)  
Parabolic Dish Antenna**

Radiated Spurious Emissions								
<b>Test By:</b>	<b>Test:</b>	Spurious Emissions-Parabolic Antenna-Mid Channel				<b>Client:</b>	Cirronet	
AT	<b>Project:</b>	05-0311		<b>Class:</b>	<b>Peak</b>	<b>Model:</b>	WIT2410G	
<b>Frequency Range</b>		<b>Table</b>	<b>Model</b>		<b>S/N</b>	<b>Valid</b>	<b>Calibrated:</b>	
		2hn3mh	Model : SAS-571		S/N 605	Yes	01 APR 05	
		preamp			S/N	Yes	June/30/2005	
		flex2ft			S/N	Yes	05/Dec/2005	
		flex17ft			S/N	Yes	05/Dec/2005	
<b>Frequency</b>	<b>Test Data</b>	<b>AF</b>	<b>Test Data</b>	<b>AF+CA-AMP</b>	<b>Results</b>	<b>Limits</b>	<b>Margin</b>	<b>PK = n</b>
<b>(MHz)</b>	<b>(dBm)</b>	<b>Table</b>	<b>(dBuV)</b>	<b>(dB)</b>	<b>(uV/m)</b>	<b>(uV/m)</b>	<b>(dB)</b>	<b>/ QP</b>
2435.63	-8.3	2hn3mh	98.7	31.7	3308695.9			<b>PK</b>
4871.838	-45.6	2hn3mh	61.4	5.7	2263.7	5000.0	<b>6.9</b>	<b>PK</b>
7306.638	-48.0	2hn3mh	59.0	10.9	3118.9	5000.0	<b>4.1</b>	<b>PK**</b>
9743.687	-63.9	2hn3mh	43.2	13.5	677.5	330869.6	<b>53.8</b>	<b>PK**</b>
12179.43	-68.4	2hn3mh	38.6	19.3	786.8	5000.0	<b>16.1</b>	<b>PK**</b>

Data corrected by 0.1 dB for loss of high pass filter, except to fundamental

\*\* Conversion from 1 meter to 3 meters = -9.54 dB

SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog  $((-45.6 + 5.7 + 107)/20)$  = 2263.7

CONVERSION FROM dBm TO dBuV = 107 dB

Tester

Signature: \_\_\_\_\_



Name: Austin Thompson

**Figure 4b - 1**  
**Peak Radiated Spurious Emission 15.247(c) Fundamental Mid – Parabolic Dish**

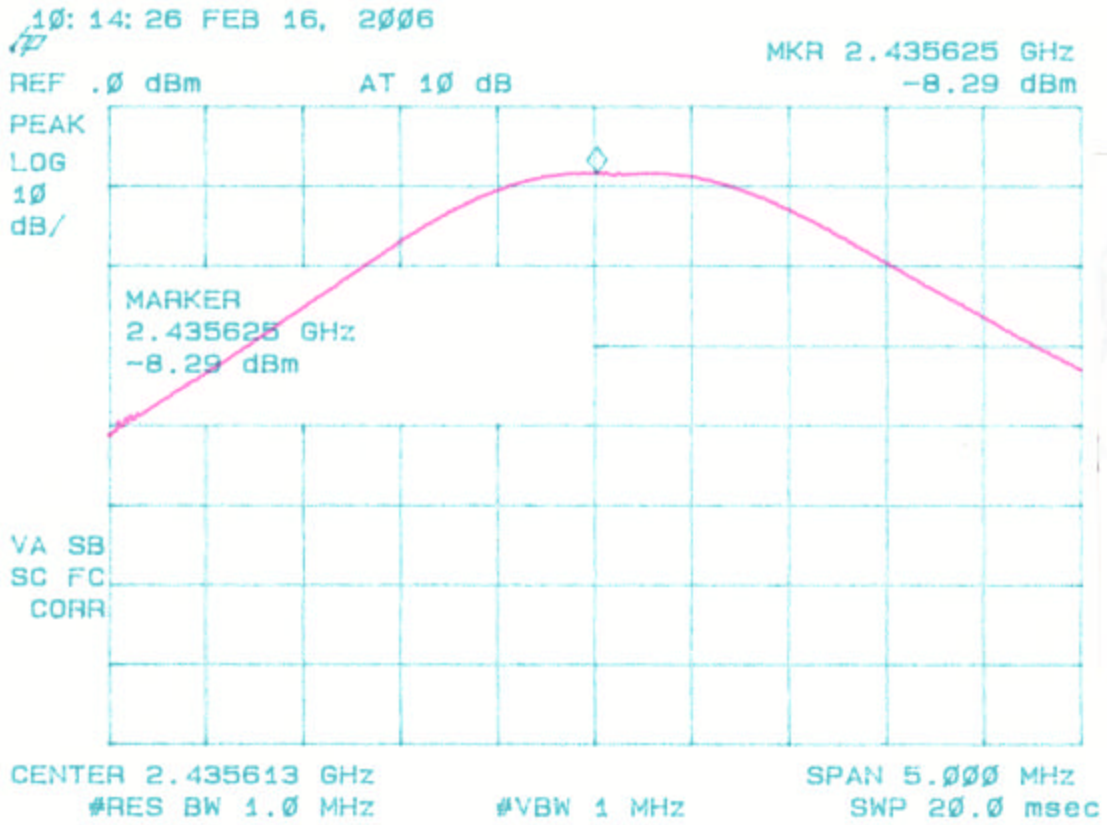


Figure 4b - 2  
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish

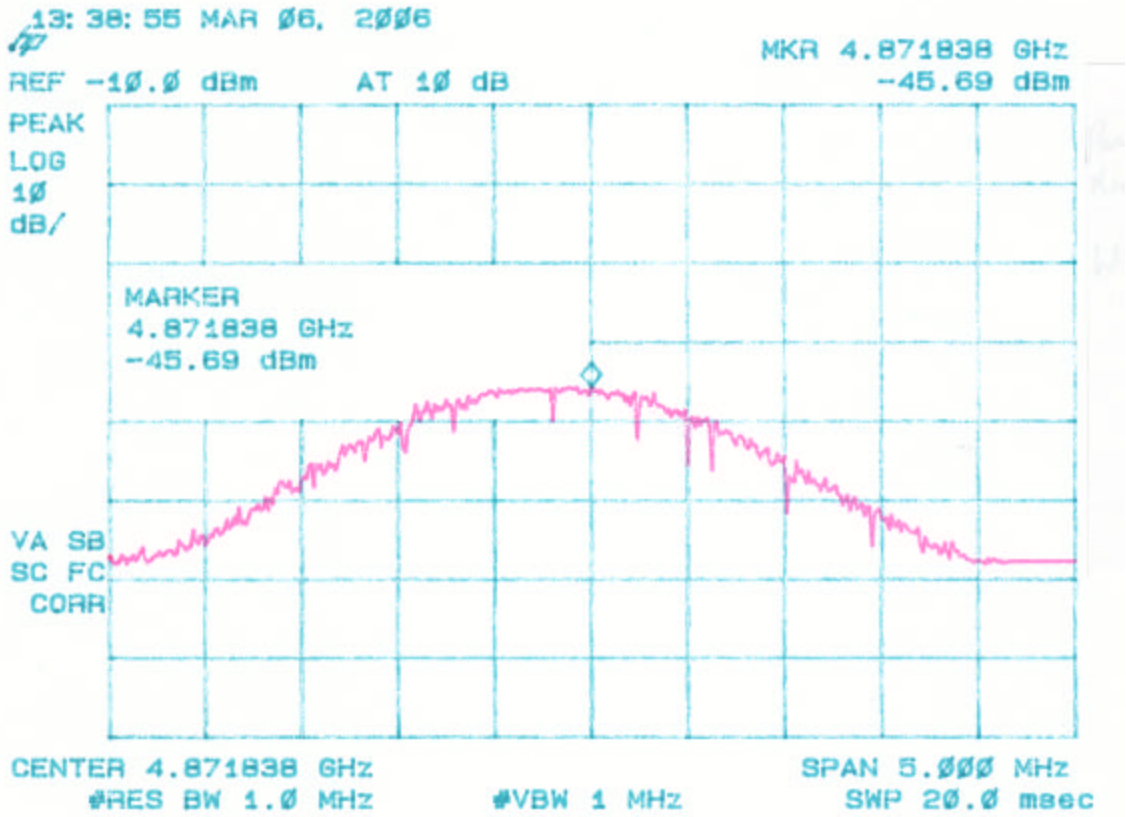


Figure 4b - 3  
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish

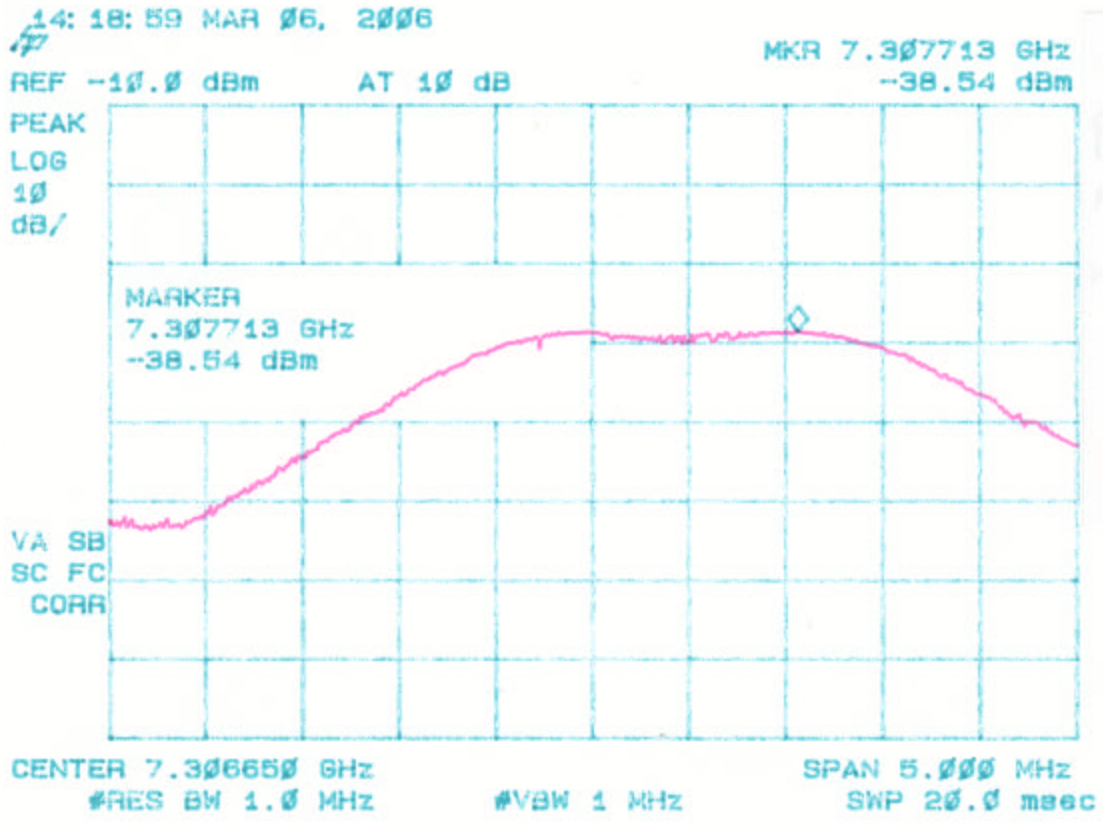
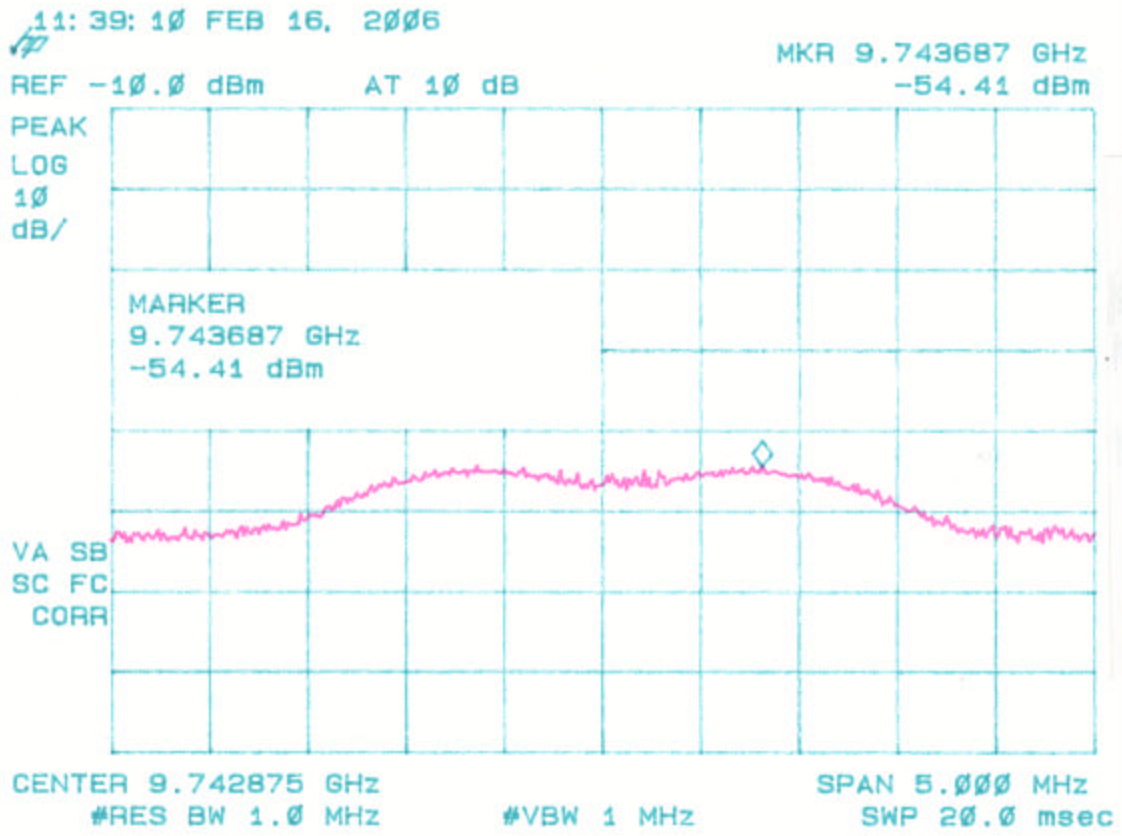
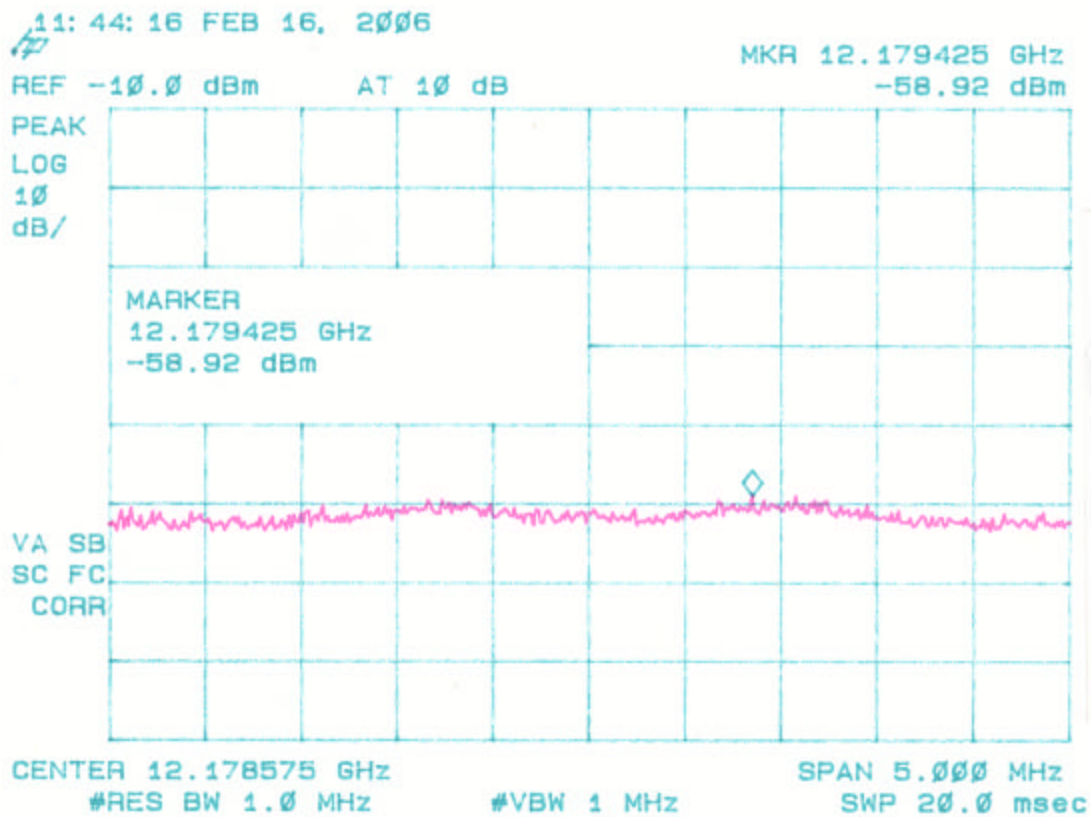




Figure 4b - 4  
Peak Radiated Spurious Emission 15.247(c) Mid - Parabolic Dish



**Figure 4b – 5**  
**Peak Radiated Spurious Emission 15.247(c) Mid – Parabolic Dish**



**Table 4c. PEAK RADIATED SPURIOUS EMISSIONS (High)  
Parabolic Dish Antenna**

Radiated Spurious Emissions								
<b>Test By:</b>	<b>Test:</b>	Spurious Emissions-Parabolic Antenna-High Channel				<b>Client:</b>	Cirronet	
AT	<b>Project:</b>	05-0311		<b>Class:</b>	<b>Peak</b>	<b>Model:</b>	WIT2410G	
<b>Frequency Range</b>		<b>Table</b>	<b>Model</b>		<b>S/N</b>	<b>Valid</b>	<b>Calibrated:</b>	
		2hn3mh	Model : SAS-571		S/N 605	Yes	01 APR 05	
		preamp			S/N	Yes	June/30/2005	
		flex2ft			S/N	Yes	05/Dec/2005	
		Flex17ft			S/N	Yes	05/Dec/2005	
<b>Frequency</b>	<b>Test Data</b>	<b>AF</b>	<b>Test Data</b>	<b>AF+CA-AMP</b>	<b>Results</b>	<b>Limits</b>	<b>Margin</b>	<b>PK = n</b>
<b>(MHz)</b>	<b>(dBm)</b>	<b>Table</b>	<b>(dBuV)</b>	<b>(dB)</b>	<b>(uV/m)</b>	<b>(uV/m)</b>	<b>(dB)</b>	<b>/ QP</b>
2469.66	-8.8	2hn3mh	98.2	31.7	3147618.4			PK
4940.1	-45.1	2hn3mh	61.9	5.9	2468.3	5000.0	6.1	PK
7410.163	-49.5	2hn3mh	57.5	11.0	2656.2	5000.0	5.5	PK**
9878.75	-65.0	2hn3mh	42.1	13.6	607.9	314761.8	54.3	PK**
12350.29	-69.2	2hn3mh	37.8	19.6	742.8	5000.0	16.6	PK**

Data corrected by 0.1 dB for loss of high pass filter, except to fundamental

\*\* Conversion from 1 meter to 3 meters = -9.54 dB

SAMPLE CALCULATION:

RESULTS (uV/m @ 3m) = Antilog ((-45.1 + 5.9 + 107)/20) = 2468.3

CONVERSION FROM dBm TO dBuV = 107 dB

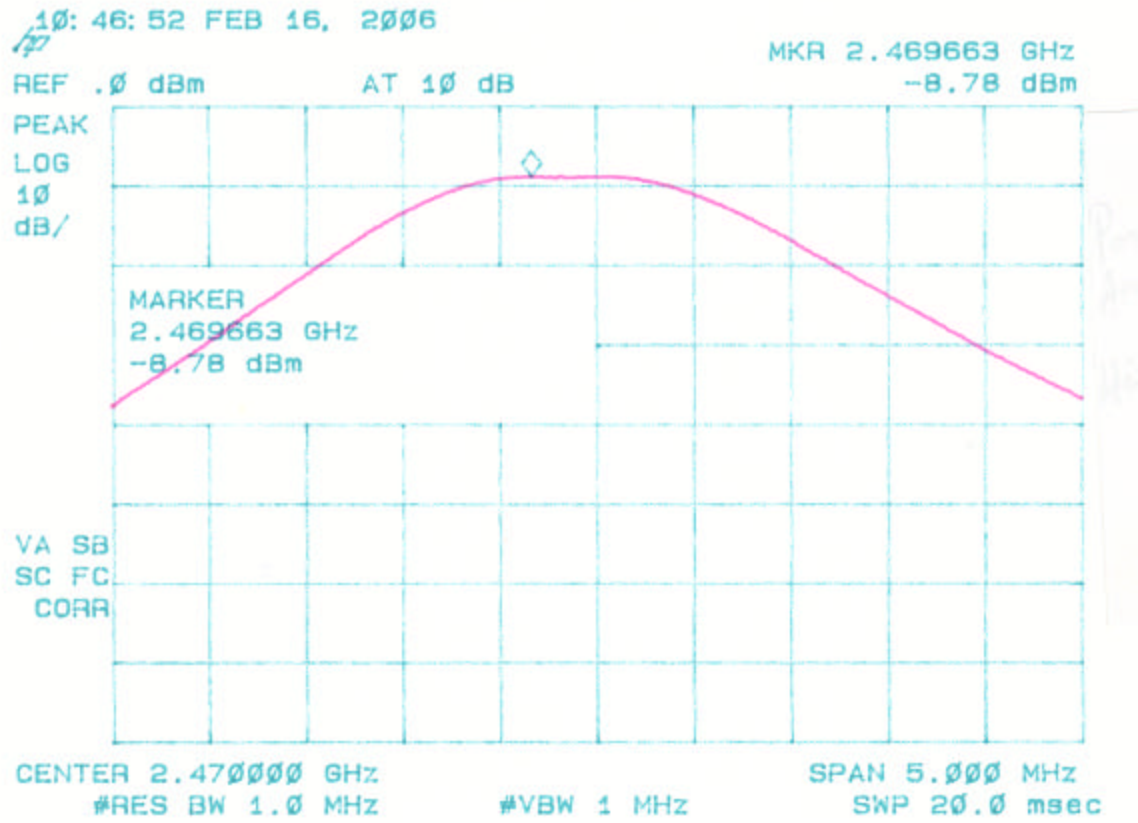
Tester

Signature: \_\_\_\_\_



Name: Austin Thompson

**Figure 4c – 1**  
**Peak Radiated Spurious Emission 15.247(c) Fundamental High – Parabolic Dish**



**Figure 4c – 2**  
**Peak Radiated Spurious Emission 15.247(c) High – Parabolic Dish**

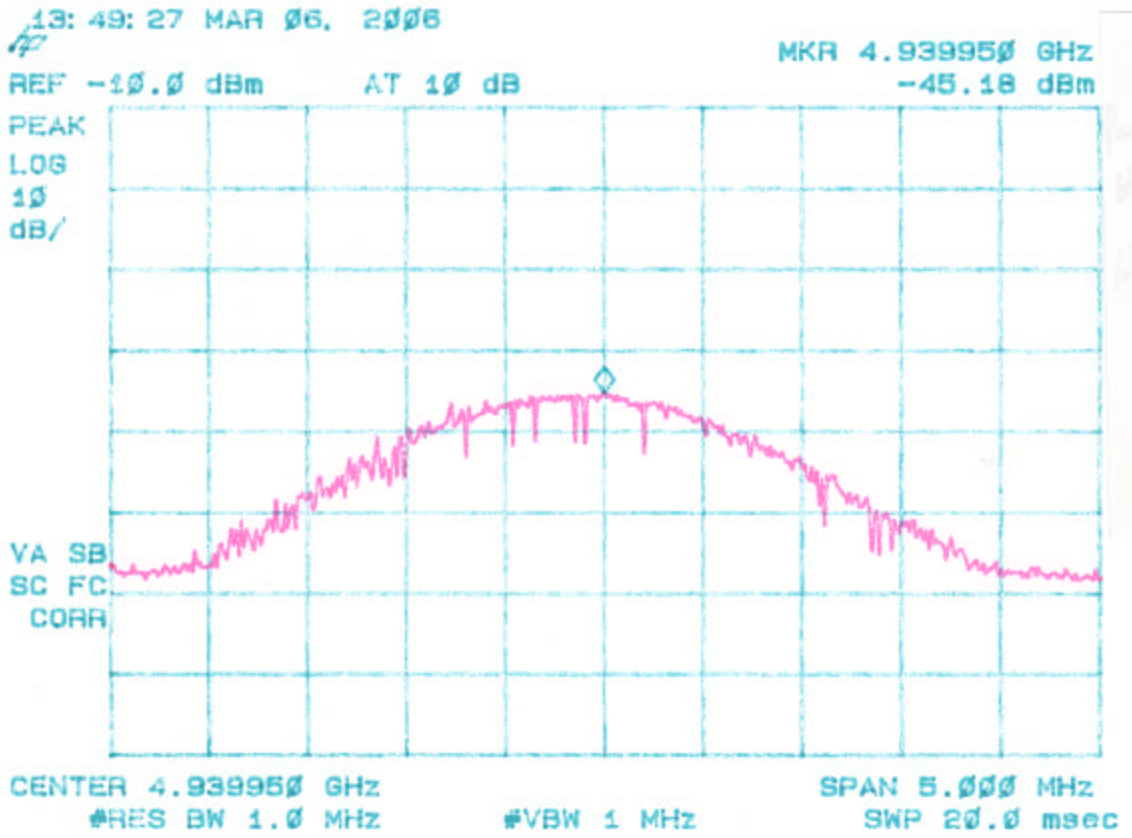
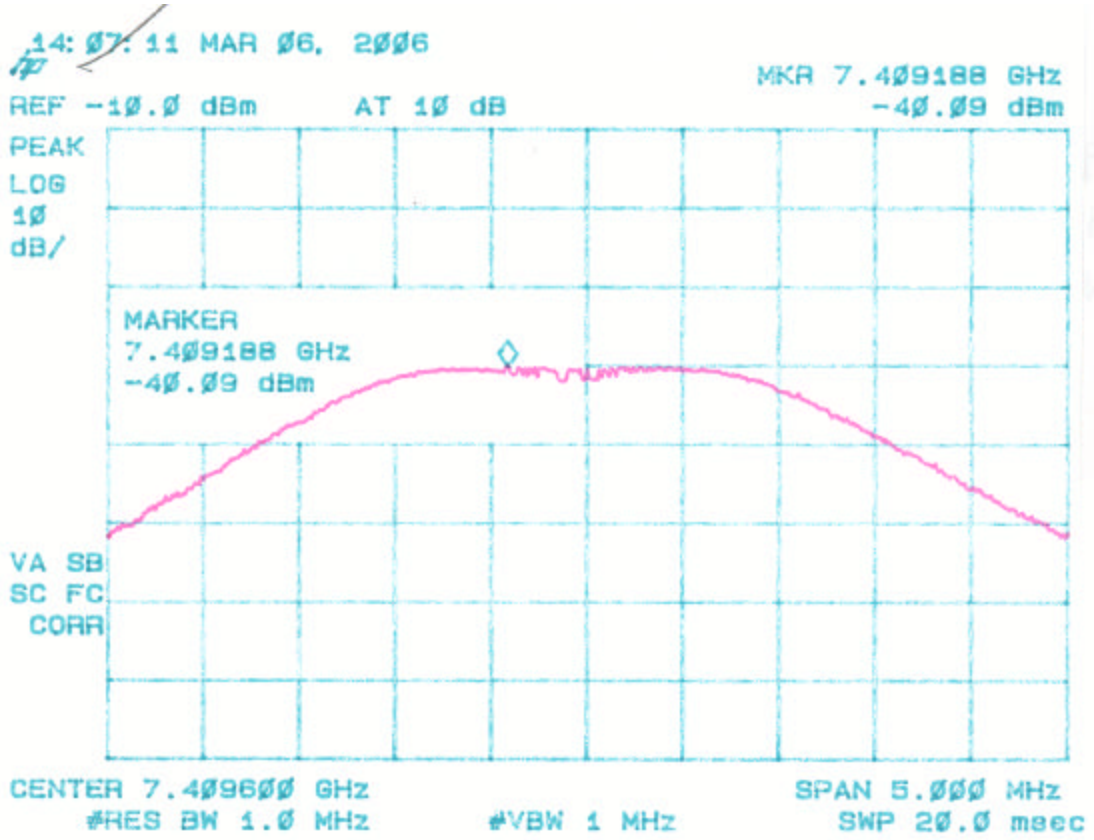
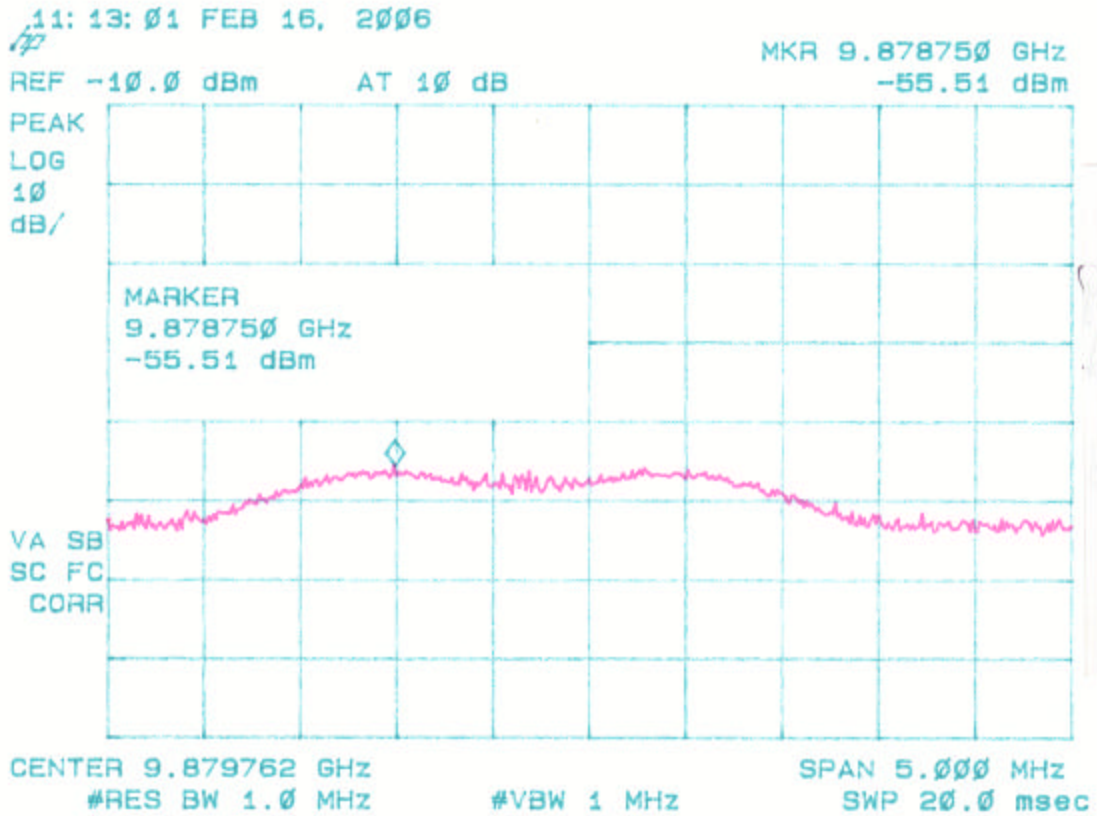


Figure 4c – 3  
Peak Radiated Spurious Emission 15.247(c) High – Parabolic Dish



**Figure 4c – 4**  
Peak Radiated Spurious Emission 15.247(c) High – Parabolic Dish





**Figure 4c – 5**  
Peak Radiated Spurious Emission 15.247(c) High – Parabolic Dish

