



Shenzhen CTL Testing Technology Co., Ltd.
Tel: +86-755-89486194 Fax: +86-755-26636041

FCC PART 22 AND PART 24 TEST REPORT

FCC Part 22 Subpart H / Part 24 Subpart E

Report Reference No......: **CTL1503020528-WU**

Compiled by

(position+printed name+signature)...: File administrators Jacky Chen

Jacky Chen

Name of the organization performing the tests

Test Engineer Tracy Qi

Tracy Qi

(position+printed name+signature)...:

Approved by

(position+printed name+signature)...: Manager Tracy Qi

Tracy Qi

Date of issue.....: Mar. 11, 2015

Test Firm.....: **Shenzhen CTL Testing Technology Co., Ltd.**

Address.....: Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

Applicant's name.....: **UOVision Technology (HONGKONG) Co., Ltd**

Address.....: UNIT A3, 9/F SILVER INTERNATIONAL TOWER, 707-713 NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG

Test specification:

Standard: **FCC CFR Title 47 Part 2, Part 22H and Part 24E**

EIA/TIA 603-C: 2004

Master TRF.....: Dated 2011-01

Shenzhen CTL Testing Technology Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen CTL Testing Technology Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen CTL Testing Technology Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: **Wireless Infrared Scouting Camera**

FCC ID.....: **2AC8CUM565-3GV**

Trade Mark: UOVision

Model/Type reference.....: Phantom(UM565-3GV)

CDMA 2000 1X EVDO Release A

Transmit: BC0: 824~849MHz BC1:1851~1909 MHz

Receive: BC0: 869~894MHz BC1: 1930-1990 MHz

Type of modulation: QPSK

Antenna Gain: 1.0 dBi

Antenna type: Internal

IMEI: A1000021A55FB4

Result.....: **Positive**

TEST REPORT

Test Report No. : CTL1503020528-WU	Mar. 11, 2015 Date of issue
---	--------------------------------

Equipment under Test : **Wireless Infrared Scouting Camera**

Model /Type : Phantom(UM565-3GV)

Applicant : **UOVision Technology (HONGKONG) Co., Ltd**

Address : UNIT A3, 9/F SILVER INTERNATIONAL TOWER, 707-713
NATHAN ROAD, MONGKOK, KOWLOON, HONGKONG

Manufacturer **UOVision Technology (Shenzhen) Co., Ltd.**

Address 3rd Floor, East Wing,the 4Th Building, ZhongGuan
HongHualing Industrial Zone, 1268# Liuxian BLVD,
Nanshan District, Shenzhen, CHN 518055

Test Result according to the
standards on page 4:

Positive

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

1.	<u>TEST STANDARDS</u>	4
2.	<u>SUMMARY</u>	5
2.1.	General Remarks	5
2.2.	Equipment Under Test	5
2.3.	Short description of the Equipment under Test (EUT)	5
2.4.	EUT operation mode	5
2.5.	EUT configuration	6
2.6.	Related Submittal(s) / Grant (s)	6
2.7.	Modifications	6
3.	<u>TEST ENVIRONMENT</u>	7
3.1.	Address of the test laboratory	7
3.2.	Test Facility	7
3.3.	Environmental conditions	7
3.4.	Configuration of Tested System	7
3.5.	EUT Exercise Software	8
3.6.	Statement of the measurement uncertainty	8
3.7.	Equipments Used during the Test	9
3.8.	Summary of Test Result	10
4.	<u>TEST CONDITIONS AND RESULTS</u>	11
4.1.	Peak Output Power	11
4.2.	Occupied Bandwidth	16
4.3.	Spurious Emission At Antenna Terminals (+/- 1MHz)	29
4.4.	Spurious Emission	36
4.5.	Frequency Stability under Temperature & Voltage Variations	62
5.	<u>TEST SETUP PHOTOS OF THE EUT</u>	69
6.	<u>EXTERNAL AND INTERNAL PHOTOS OF THE EUT</u>	70

1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Part 22 Subpart H:](#) Public Mobile Services

[FCC Part 24 Subpart E:](#) Personal Communications Services

[EIA/TIA 603-C: 2004](#)

[FCC CFR Title 47 Part 2](#)



2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : Mar. 02, 2015

Testing commenced on : Mar. 02, 2015

Testing concluded on : Mar. 11, 2015

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : ☐ 120V / 60 Hz ☐ 115V / 60Hz
☐ 12 V DC ☐ 24 V DC
☒ Other (specified in blank below)

DC 6.0V from battery

2.3. Short description of the Equipment under Test (EUT)

A Wireless Infrared Scouting Camera with CDMA2000 function.

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

2.4. EUT operation mode

CTL has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Test Mode	Channel	Frequency(MHz)
BC0 (850MHz)	1013	824.70
	384	836.52
	777	848.31
	25	1851.25
BC1 (1900MHz)	600	1880.00
	1175	1908.75

Note:

1. Regards to the frequency band operation: the lowest, middle and highest frequency of channel were selected to perform the test, then shown on this report.

2. For the ERP/EIRP and radiated emission test, every axis (X, Y, Z) was verified, and show the worst result on this report.

2.5. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- o - supplied by the manufacturer
- o - supplied by the lab

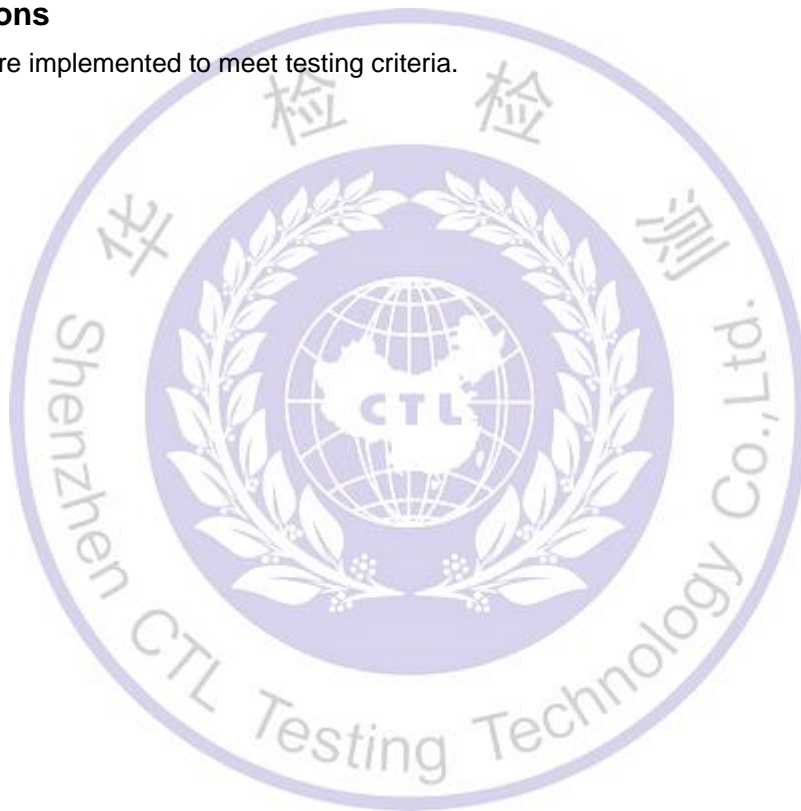
0 Manufacturer :
Model No. :

2.6. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: 2AC8CUM565-3GV filing to comply with of the FCC Part 22 and Part 24 Rules.

2.7. Modifications

No modifications were implemented to meet testing criteria.



3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.

Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 (2009) and CISPR Publication 22.

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December 19, 2013.

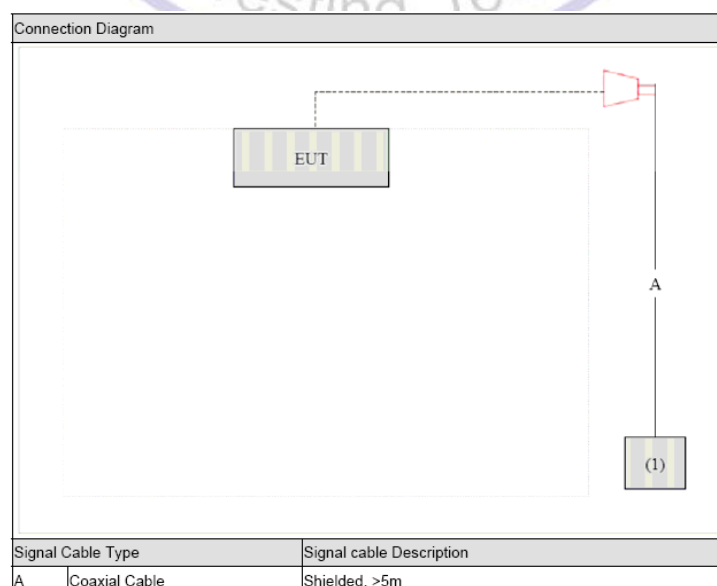
3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System



3.5. EUT Exercise Software

1. Setup the EUT and simulators as shown on above.
2. Turn on the power of all equipment.
3. EUT Communicate with CMU200, then select channel to test.

3.6. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Bontek Compliance Testing Laboratory Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Bontek laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.7. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2014/07/12	2015/07/11
EMI Test Receiver	R&S	ESCI	103710	2014/07/10	2015/07/09
Spectrum Analyzer	Agilent	E4407B	MY45108355	2014/07/06	2015/07/05
Controller	EM Electronics	Controller EM 1000	N/A	2014/07/06	2015/07/05
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2014/07/12	2015/07/11
Horn Antenna	SCHWARZBECK	BBHA9170	1562	2014/07/12	2015/07/11
Active Loop Antenna	SCHWARZBECK	FMZB1519	1519-037	2014/07/12	2015/07/11
LISN	R&S	ENV216	101316	2014/07/10	2015/07/09
LISN	SCHWARZBECK	NSLK8127	8127687	2014/07/10	2015/07/09
Microwave Preamplifier	HP	8349B	3155A00882	2014/07/10	2015/07/09
Amplifier	HP	8447D	3113A07663	2014/07/10	2015/07/09
Power Sensor	Rohde&Schwarz	OSP-120 (including B157)	115683	2014/07/02	2015/07/01
Transient Limiter	Com-Power	LIT-153	532226	2014/07/10	2015/07/09
Radio Communication Tester	R&S	CMU200	3655A03522	2014/07/06	2015/07/05
Temperature/Humidity Meter	zhicheng	ZC1-2	22522	2014/07/10	2015/07/09
SIGNAL GENERATOR	HP	8647A	3200A00852	2014/07/10	2015/07/09
Wideband Peak Power Meter	Anritsu	ML2495A	220.23.35	2014/07/06	2015/07/05
Power Sensor	Anritsu	MA2411B	0738552	2014/07/06	2015/07/05
Climate Chamber	ESPEC	EL-10KA	A20120523	2014/07/06	2015/07/05
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	/	2014/07/06	2015/07/05
High-Pass Filter	K&L	41H10-1375/U12750-O/O	/	2014/07/06	2015/07/05
RF Cable	HUBER+SUHNER	RG214	/	2014/07/09	2015/07/08

3.8. Summary of Test Result

No deviations from the test standards

Description of Test Item	Standard	Results
Conducted Output power	FCC PART 2: 2.1046 FCC PART 22H: 22.913 (a) FCC PART 24E: 24.232 (c)	PASS
Radiated Output power(erp/eirp)	FCC PART 22H:22.913 (a) FCC PART 24E:24.232(c)	PASS
Occupied bandwidth	FCC PART 2: 2.1049 FCC PART 22H: 22.917 (b) FCC PART 24E: 24.238 (b)	PASS
Frequency stability	FCC PART 2: 2.1055 FCC PART 22H: 22.355 FCC PART 24E: 24.235	PASS
Conducted spurious emission (Antenna terminal)	FCC PART 2: 2.1051 FCC PART 22H: 22.917 FCC PART 24E: 24.238	PASS
Radiated spurious emissions	FCC PART 2: 2.1053 FCC PART 22H: 22.917 FCC PART 24E: 24.238	PASS
Block edge compliance	FCC PART 22H: 22.917 (b) FCC PART 24E: 24.238 (b)	PASS

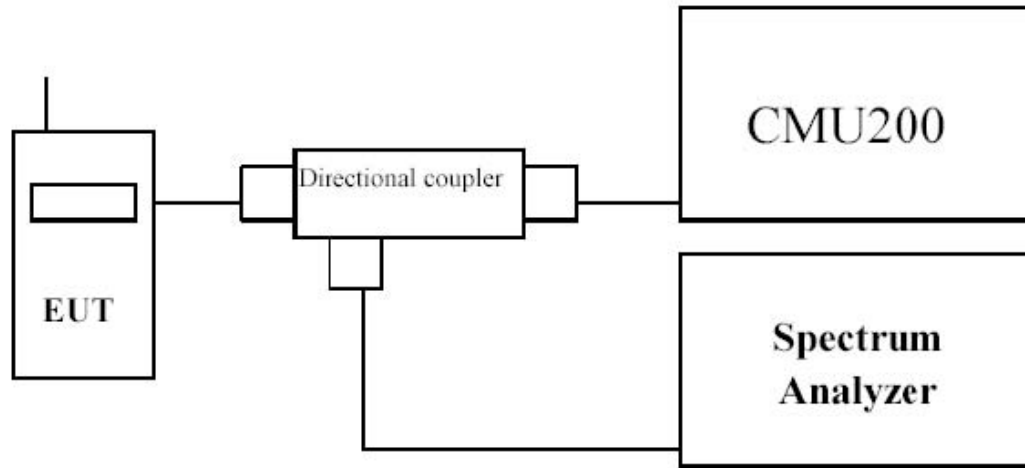


4. TEST CONDITIONS AND RESULTS

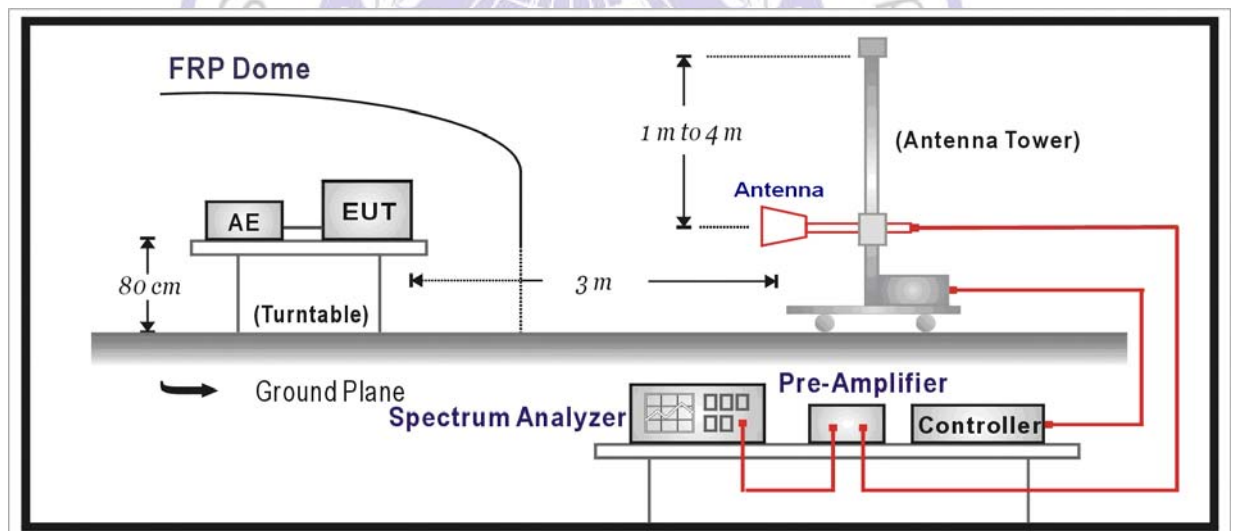
4.1. Peak Output Power

TEST CONFIGURATION

Conducted Power Measurement:



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Conducted Power Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- EUT Communicate with CMU200, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

1. The EUT was placed on an non-conductive rotating platform with 0.8 meter height in an anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with RBW= 3MHz, VBW= 3MHz and peak detector settings.

2. During the measurement, the EUT was enforced in maximum power and linked with a base station. The highest emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 meters in both horizontally and vertically polarized orientations.

3. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to TIA/EIA-603-C. The EUT was replaced by dipole antenna (for frequency below 1GHz) or Horn antenna (for frequency above 1GHz) at same location with same polarize of receiver antenna and then a known power of each measure frequency from S.G. was applied into the dipole antenna or Horn antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Substitution antenna Loss (only for Dipole antenna) - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP = LVL + \text{Correction factor}$ and $ERP = EIRP - 2.15$

LIMIT

For FCC Part 22.913(a)(2):

The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

For FCC Part 24.232(b):

The EIRP of mobile transmitters and auxiliary test transmitters must not exceed 2 Watts.

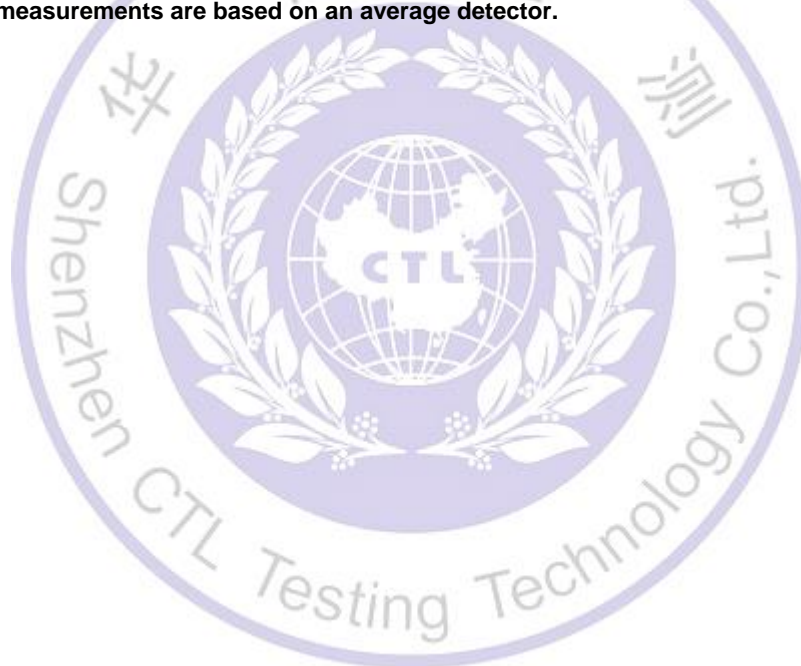
TEST RESULTS

Product	Wireless Infrared Scouting Camera		
Test Item	Maximum Output Power		
Date of Test	2015/03/09	Test Site	TR-8

Mode	Test Case			BC0 (850MHz) Channel		
				Conducted Power (dBm)		
	Num.	FWD RC/TAP	REV RC/TAP	1013	384	777
1x	1	RC1	RC1 (SO2)	23.15	23.26	23.36
	2	RC1	RC1 (SO55)	23.30	23.36	23.45
	3	RC2	RC2 (SO9)	23.09	23.26	23.41
	4	RC2	RC2 (SO55)	23.02	23.34	23.45
	5	RC3	RC3 (SO55)	23.11	23.29	23.40
	6	RC3	RC3 (SO32)	23.28	23.38	23.39
1x EV-DO Rel0	7a	FTAP rate = 307kbps (2 slot, QPSK)	RTAP rate = 9.6kbps	22.71	22.75	22.85
	7b		RTAP rate = 19.2kbps	22.69	22.78	22.81
	7c		RTAP rate = 38.4kbps	22.71	22.76	22.88
	7d		RTAP rate = 76.8kbps	22.70	22.77	22.87
	7e		RTAP rate = 153.6kbps	22.72	22.79	22.90
1x EV-DO Rev A	8a	FETAP rate = 307kbps (2 slot, ACK channel is transmitted at all the slots)	RETAP - payload size = 128	22.72	22.95	23.13
	8b		RETAP - payload size = 256	22.73	22.93	23.12
	8c		RETAP - payload size = 512	22.76	22.92	23.11
	8d		RETAP - payload size = 768	22.79	22.88	23.09
	8e		RETAP - payload size = 1024	22.81	22.99	23.10
	8f		RETAP - payload size = 1536	22.87	22.89	23.15
	8g		RETAP - payload size = 2048	22.88	22.90	23.19
	8h		RETAP - payload size = 3072	22.79	22.93	23.13
	8i		RETAP - payload size = 4096	22.81	22.92	23.15
	8j		RETAP - payload size = 6144	22.86	22.99	23.14
	8k		RETAP - payload size = 8192	22.89	23.00	23.20
	8l		RETAP - payload size = 12288	22.90	23.01	23.22

Mode	Test Case			BC1 (1900MHz) Channel		
				Conducted Power (dBm)		
	Num.	FWD RC/TAP	REV RC/TAP	25	600	1175
1x	1	RC1	RC1 (SO2)	22.82	23.01	23.21
	2	RC1	RC1 (SO55)	22.85	23.03	23.12
	3	RC2	RC2 (SO9)	22.78	22.83	23.02
	4	RC2	RC2 (SO55)	22.72	22.91	23.27
	5	RC3	RC3 (SO55)	22.69	22.81	23.01
	6	RC3	RC3 (SO32)	22.68	22.85	23.17
1x EV-DO Rel0	7a	FTAP rate = 307kbps (2 slot, QPSK)	RTAP rate = 9.6kbps	22.23	22.35	22.63
	7b		RTAP rate = 19.2kbps	22.32	22.38	22.59
	7c		RTAP rate = 38.4kbps	22.45	22.59	22.66
	7d		RTAP rate = 76.8kbps	22.38	22.76	22.95
	7e		RTAP rate = 153.6kbps	22.77	22.90	23.05
1x EV-DO Rev A	8a	FETAP rate = 307kbps (2 slot, ACK channel is transmitted at all the slots)	RETAP – payload size = 128	22.53	22.76	22.98
	8b		RETAP – payload size = 256	22.49	22.76	22.94
	8c		RETAP – payload size = 512	22.59	22.77	22.89
	8d		RETAP – payload size = 768	22.56	22.61	22.71
	8e		RETAP – payload size = 1024	22.58	22.94	23.01
	8f		RETAP – payload size = 1536	22.61	22.71	22.89
	8g		RETAP – payload size = 2048	22.57	22.84	22.99
	8h		RETAP – payload size = 3072	22.49	22.57	22.61
	8i		RETAP – payload size = 4096	22.56	22.62	22.76
	8j		RETAP – payload size = 6144	22.53	22.72	22.67
	8k		RETAP – payload size = 8192	22.59	22.61	22.88
	8l		RETAP – payload size = 12288	22.62	22.77	22.74

Note: All conducted measurements are based on an average detector.



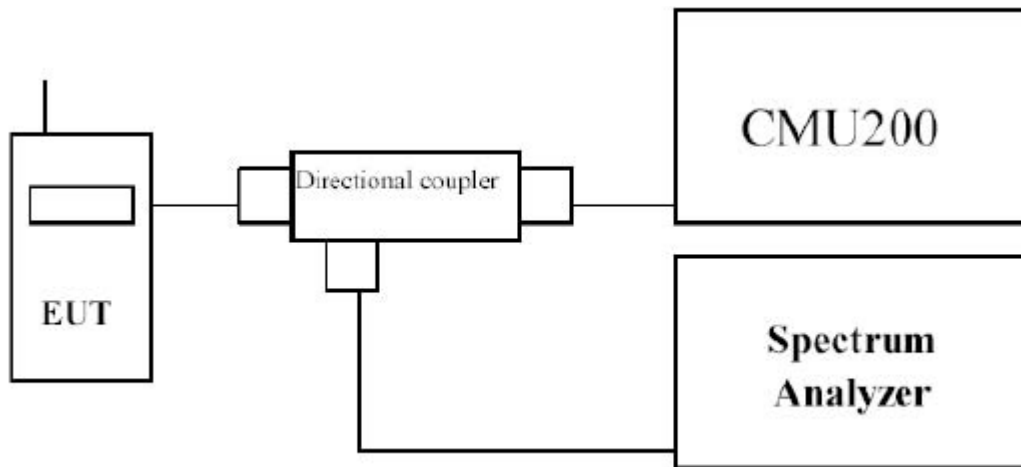
Product	Wireless Infrared Scouting Camera		
Test Item	Effective Isotropic Radiated Power/ Effective Radiated Power		
Date of Test	2015/03/09	Test Site	AC-5

Radiated Power EIRP/ERP				
Band	Modulation	Freq. (MHz)	ERP (dBm)	H/V
CDMA 2000 1X BC0	GMSK	824.70	21.63	H
		836.52	21.83	H
		848.31	21.77	H
		824.70	24.05	V
		836.52	24.18	V
		848.31	24.33	V
CDMA 2000 1X EVDO Rel-0 BC0	QPSK	824.70	21.09	H
		836.52	21.17	H
		848.31	21.24	H
		824.70	23.98	V
		836.52	24.01	V
		848.31	24.13	V
CDMA 2000 1X EVDO Rel-A BC0	QPSK	824.70	20.65	H
		836.52	20.73	H
		848.31	20.80	H
		824.70	23.68	V
		836.52	23.71	V
		848.31	23.80	V

Radiated Power EIRP/ERP				
Band	Modulation	Freq. (MHz)	EIRP (dBm)	H/V
CDMA 2000 1X BC1	GMSK	1851.25	21.71	H
		1880.00	21.89	H
		1908.75	21.94	H
		1851.25	24.27	V
		1880.00	24.39	V
		1908.75	24.41	V
CDMA 2000 1X EVDO Rel-0 BC1	QPSK	1851.25	21.16	H
		1880.00	21.28	H
		1908.75	21.43	H
		1851.25	23.95	V
		1880.00	24.08	V
		1908.75	24.11	V
CDMA 2000 1X EVDO Rel-A BC1	QPSK	1851.25	20.72	H
		1880.00	20.84	H
		1908.75	20.99	H
		1851.25	23.77	V
		1880.00	23.85	V
		1908.75	23.91	V

4.2. Occupied Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT RF output port was connected to Spectrum Analyzer and Base Station via power divider.
2. Spectrum analyzer's occupied bandwidth measure function was used to measure 99% bandwidth and -26dBc bandwidth

LIMIT

N/A

TEST RESULTS

Product	Wireless Infrared Scouting Camera		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: CDMA 2000 1X BC0 Link		
Date of Test	2015/03/09	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
1013	824.70	1423.00	1272.90
384	836.52	1418.00	1271.60
777	848.31	1415.00	1271.50

Figure Channel 1013 (824.70MHz)

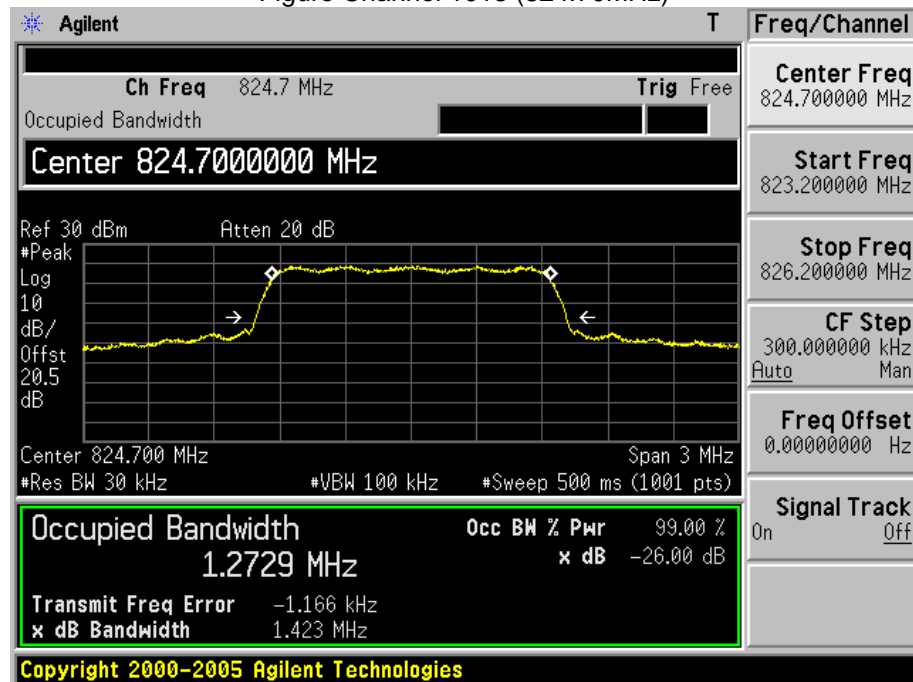


Figure Channel 384 (836.52MHz)

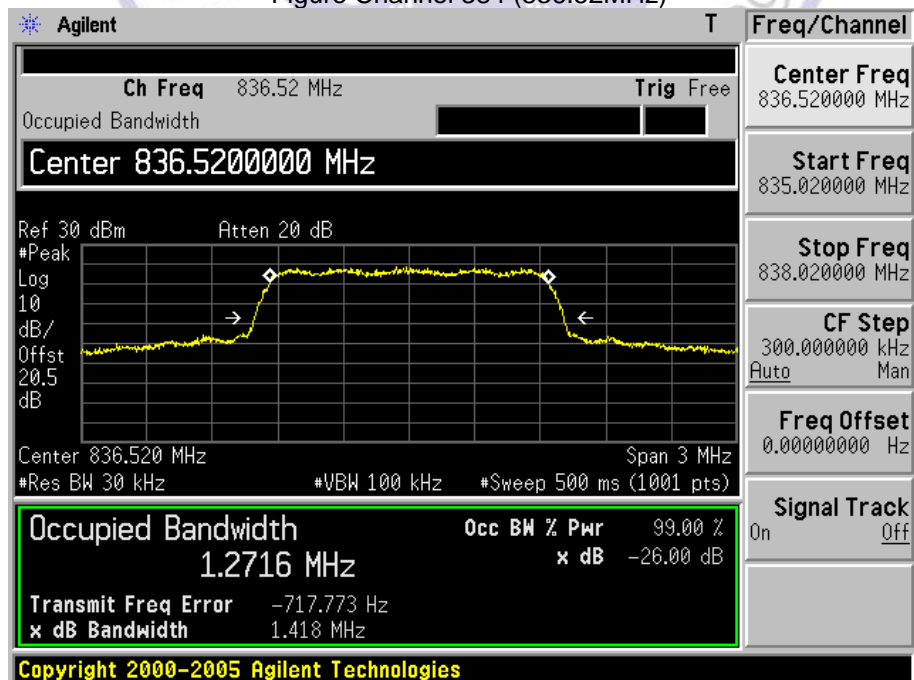
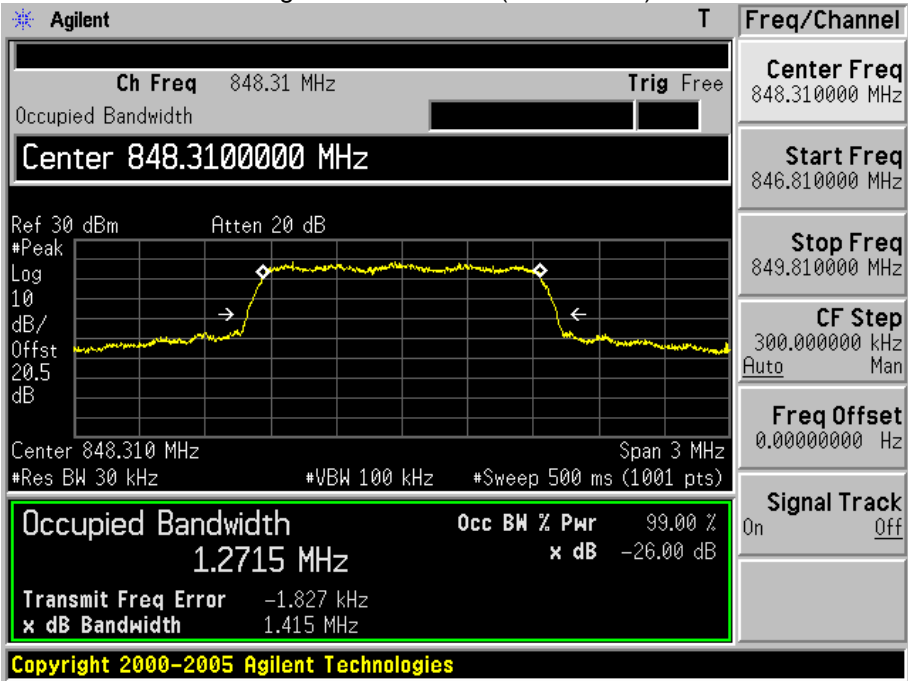


Figure Channel 777 (848.31MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Occupied Bandwidth		
Test Mode	Mode 2: CDMA 2000 1X BC1 Link		
Date of Test	2015/03/09	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
25	1851.25	1441.00	1276.80
600	1880.00	1415.00	1273.70
1175	1908.75	1430.00	1274.80

Figure Channel 25 (1851.25MHz)

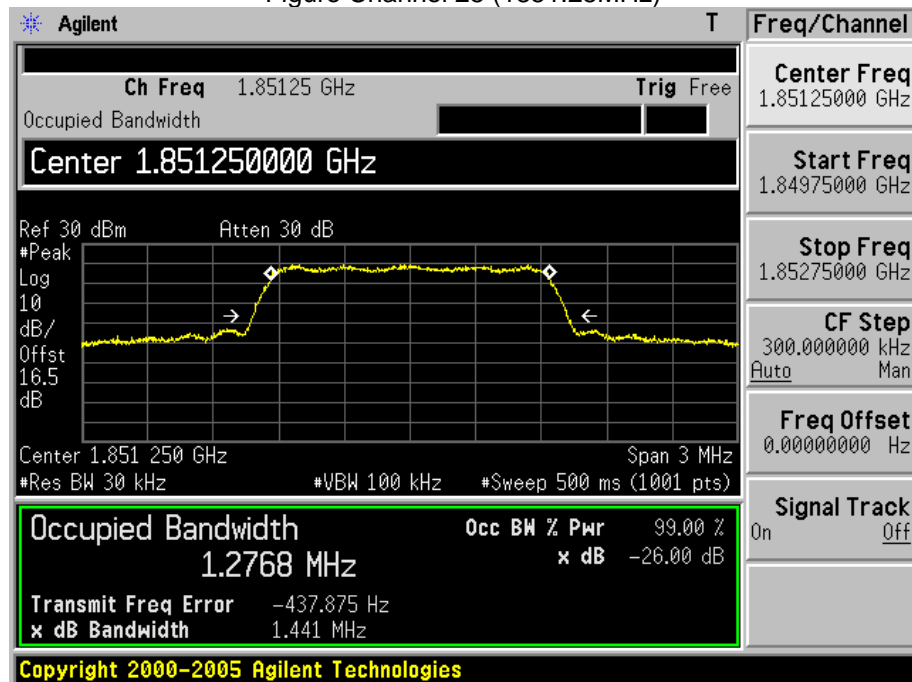


Figure Channel 600 (1880MHz)

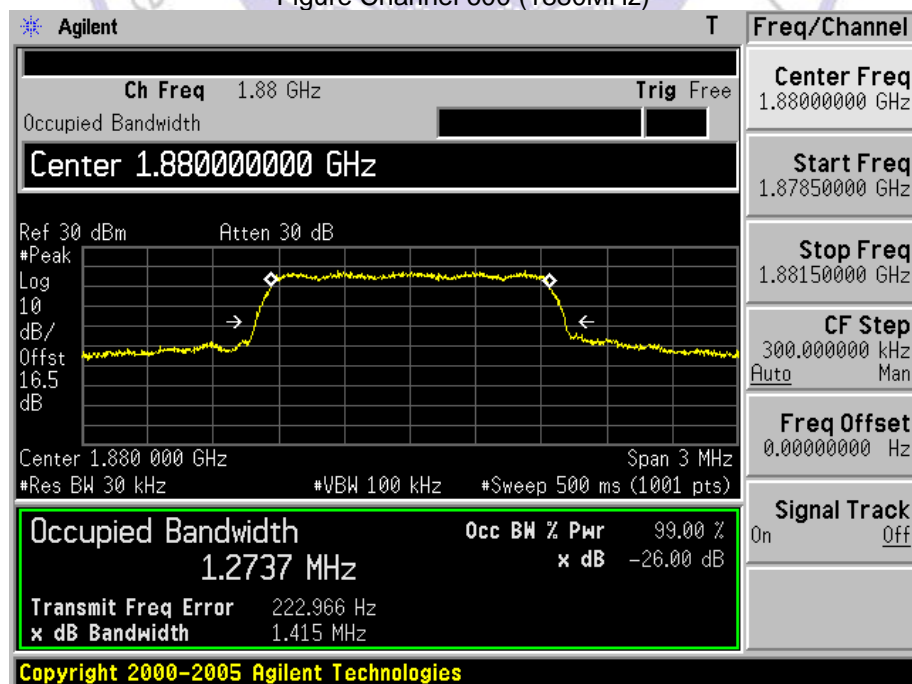
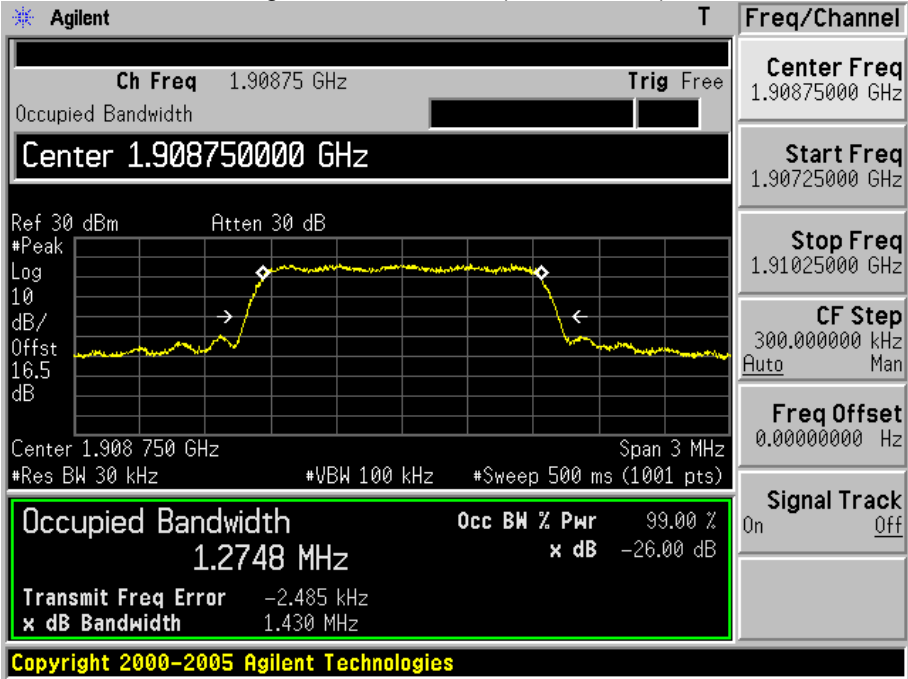


Figure Channel 1175 (1908.75MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Occupied Bandwidth		
Test Mode	Mode 3: CDMA 2000 1XEVD0 Rel-0 BC0 Link		
Date of Test	2015/03/09	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
1013	824.70	1421.00	1269.80
384	836.52	1420.00	1270.10
777	848.31	1415.00	1271.40

Figure Channel 1013 (824.70MHz)

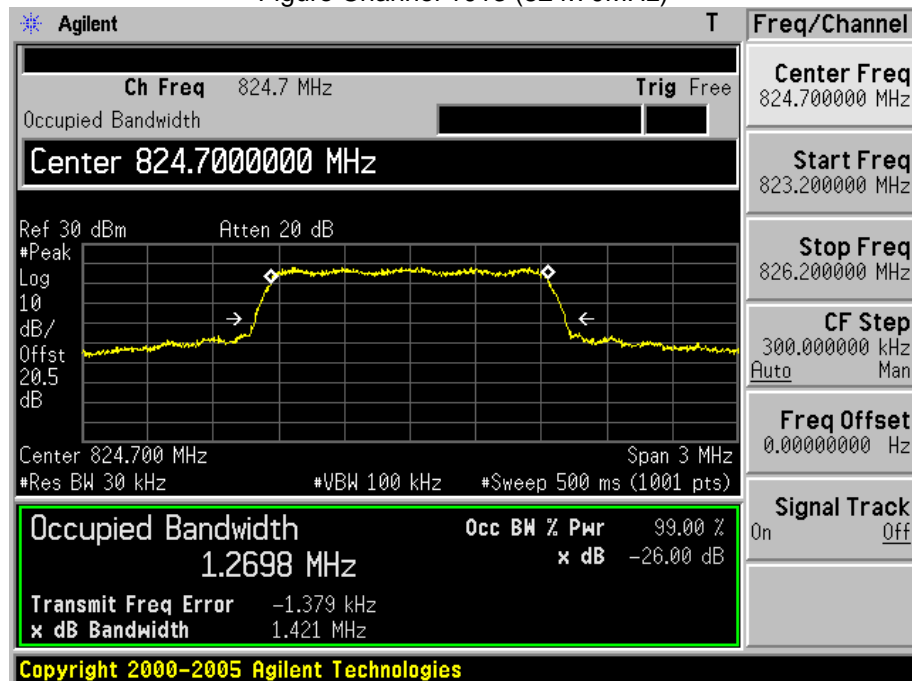


Figure Channel 384 (836.52MHz)

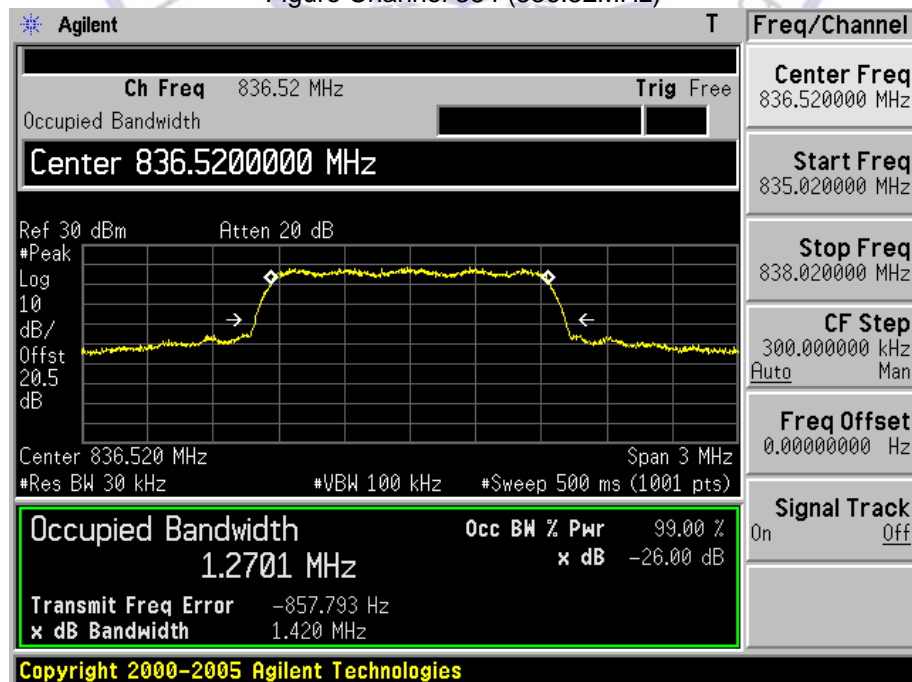
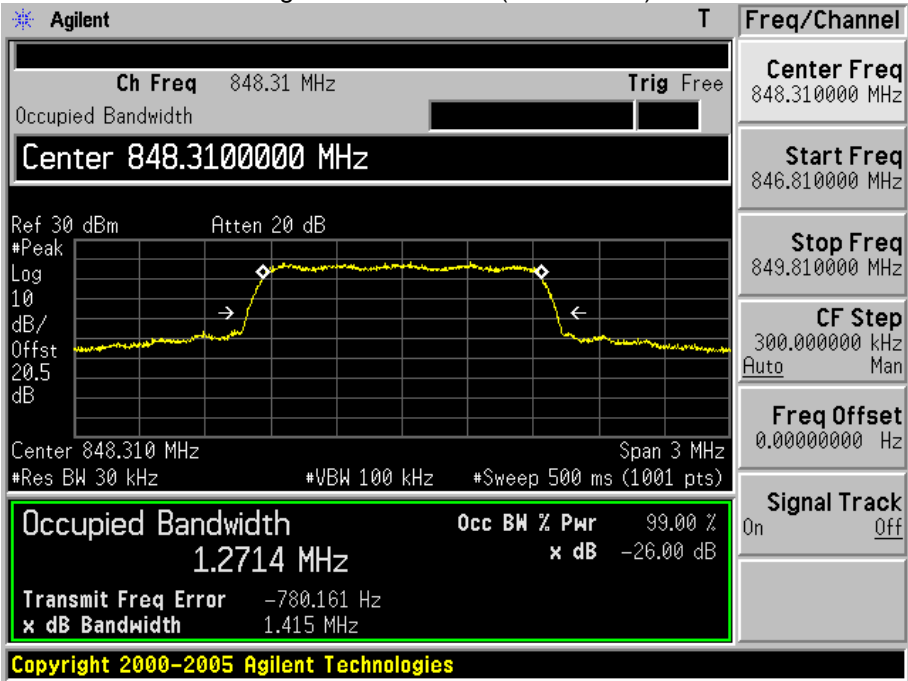


Figure Channel 777 (848.31MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Occupied Bandwidth		
Test Mode	Mode 4 :CDMA 2000 1XEVD0 Rel-0 BC1 Link		
Date of Test	2015/03/09	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
25	1851.25	1427.00	1274.60
600	1880.00	1423.00	1272.90
1175	1908.75	1417.00	1271.20

Figure Channel 25 (1851.25MHz)

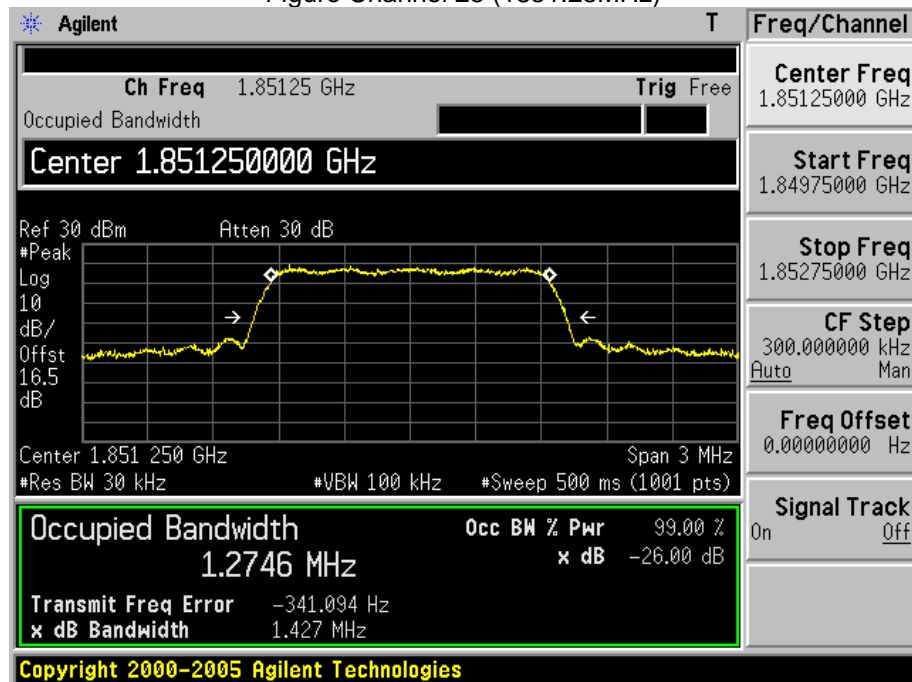


Figure Channel 600 (1880MHz)

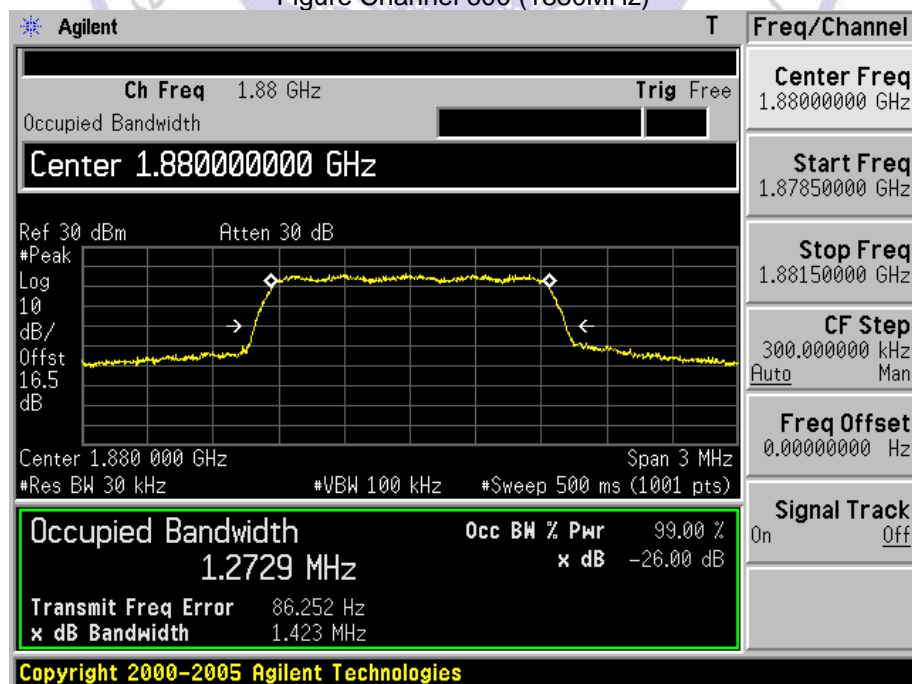
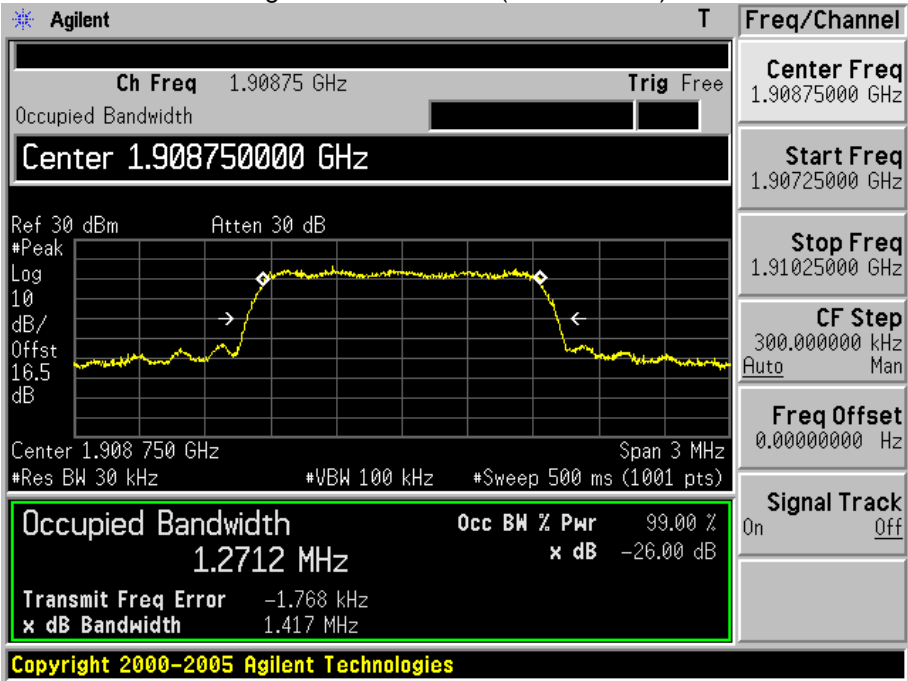


Figure Channel 1175 (1908.75MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Occupied Bandwidth		
Test Mode	Mode 5 :CDMA 2000 1XEVD0 Rel-A BC0 Link		
Date of Test	2015/03/09	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
1013	824.70	1416.00	1274.20
384	836.52	1421.00	1273.80
777	848.31	1422.00	1272.00

Figure Channel 1013 (824.70MHz)

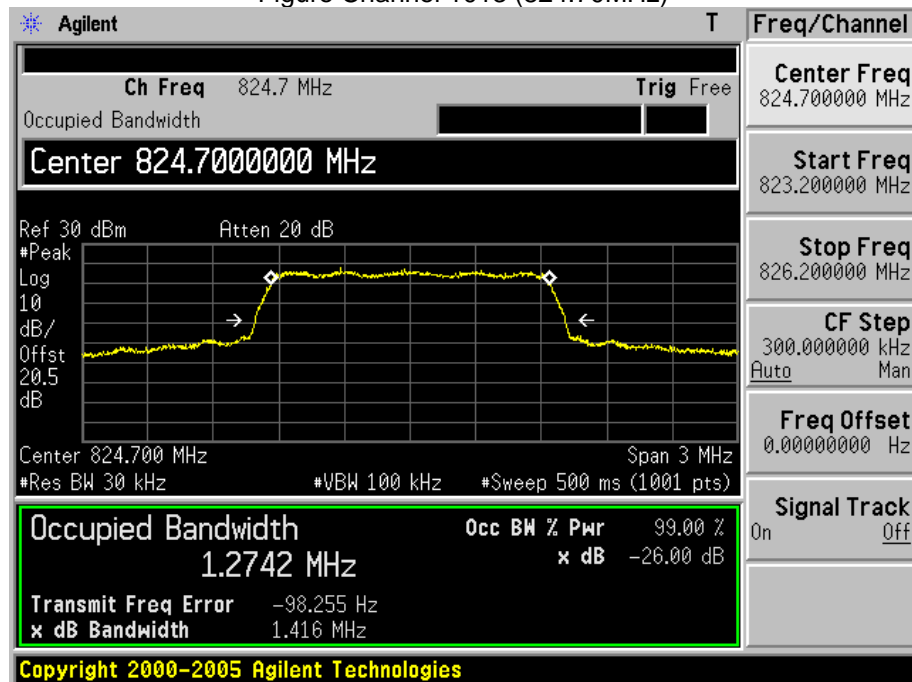


Figure Channel 384 (836.52MHz)

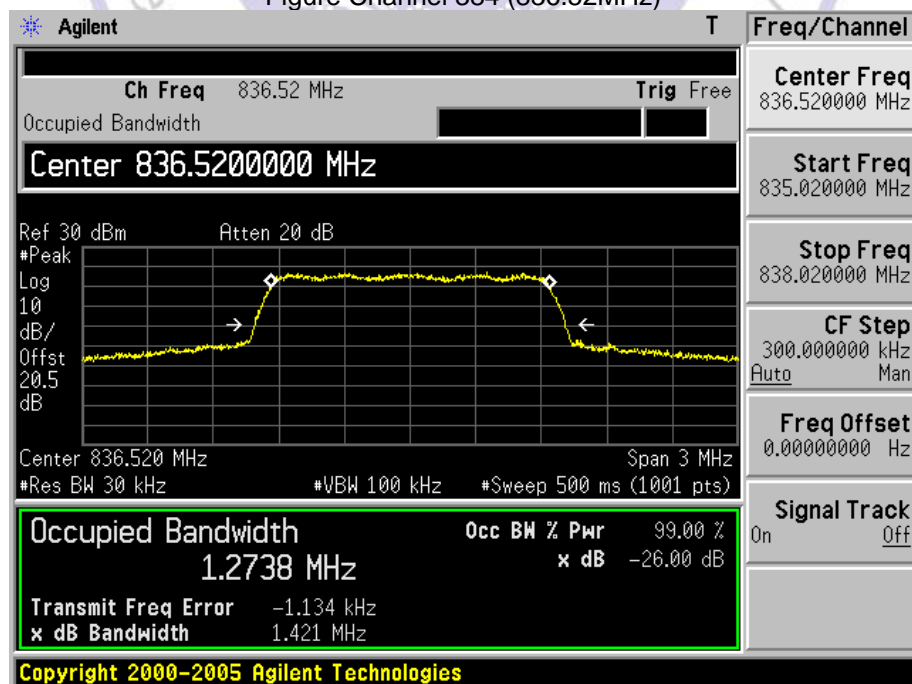
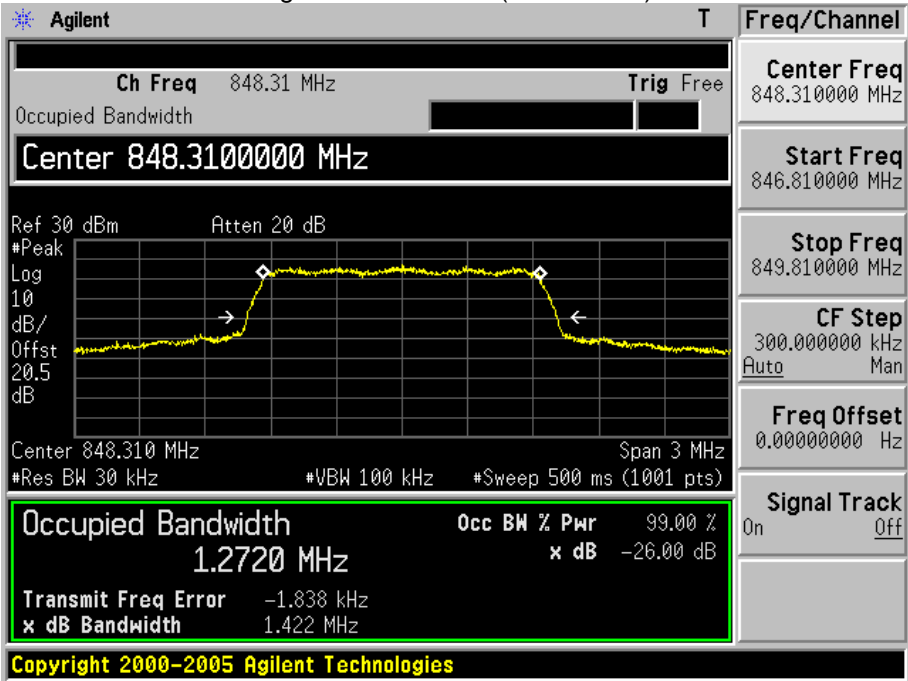


Figure Channel 777 (848.31MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Occupied Bandwidth		
Test Mode	Mode 6: CDMA 2000 1XEVD0 Rel-A BC1 Link		
Date of Test	2015/03/09	Test Site	AC-6

Channel No.	Frequency (MHz)	-26dB Occupied Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
25	1851.25	1428.00	1272.60
600	1880.00	1420.00	1272.70
1175	1908.75	1424.00	1274.10

Figure Channel 25 (1851.25MHz)

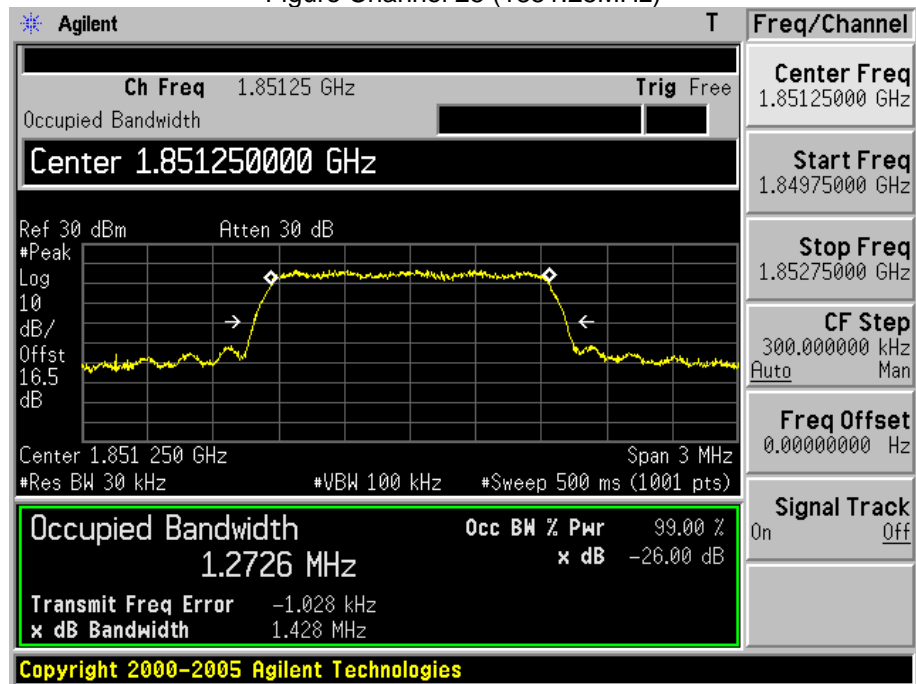


Figure Channel 600 (1880MHz)

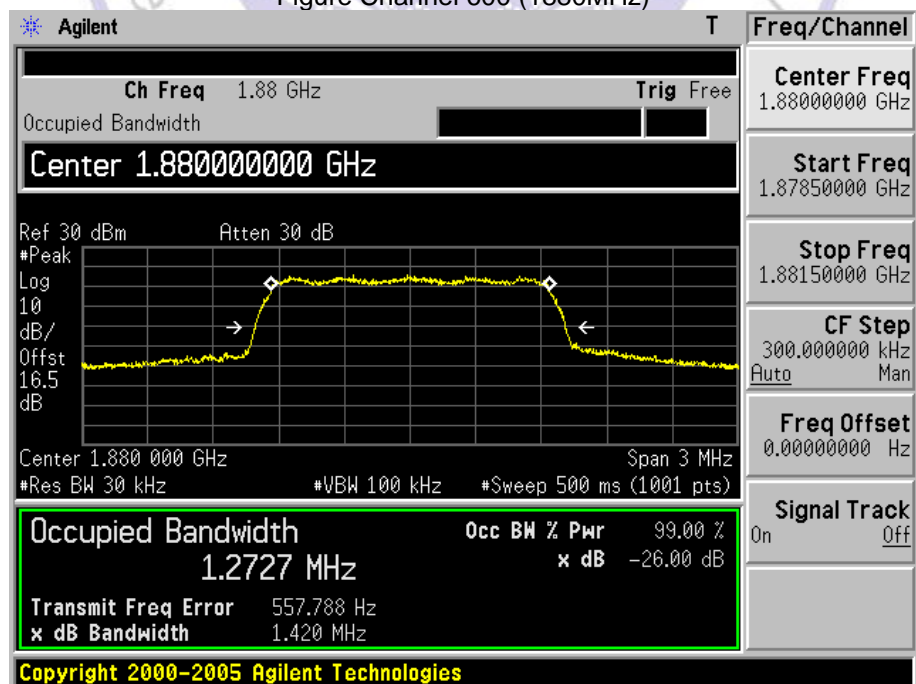
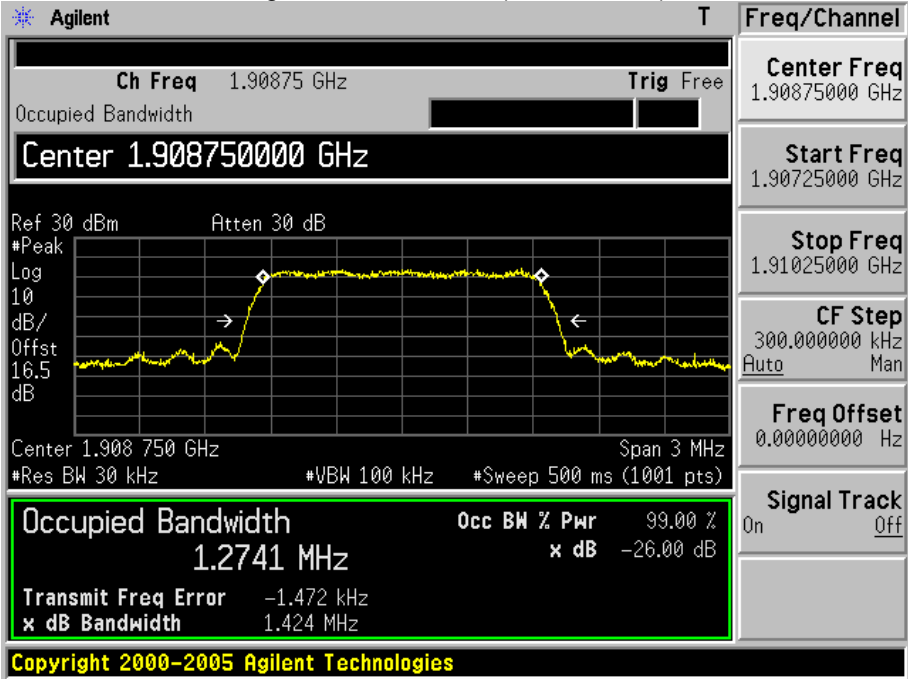
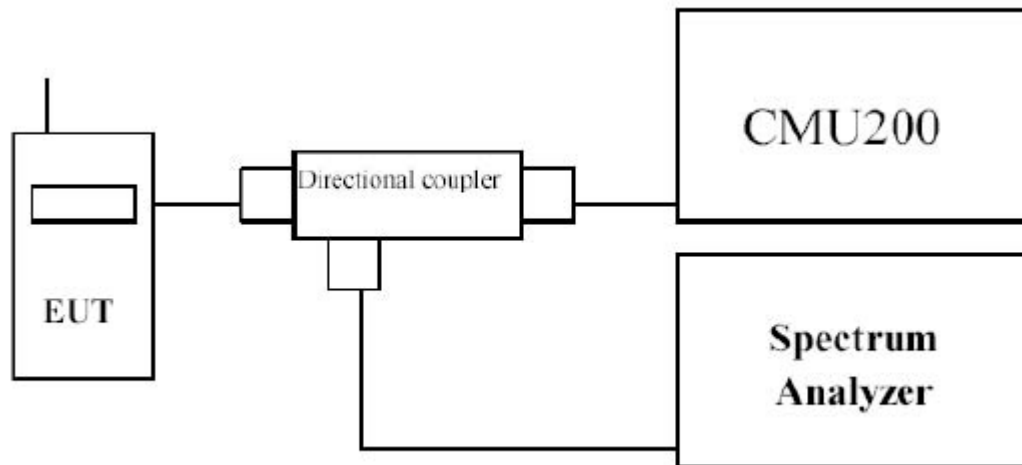


Figure Channel 1175 (1908.75MHz)



4.3. Spurious Emission At Antenna Terminals (+/- 1MHz)

TEST CONFIGURATION



TEST PROCEDURE

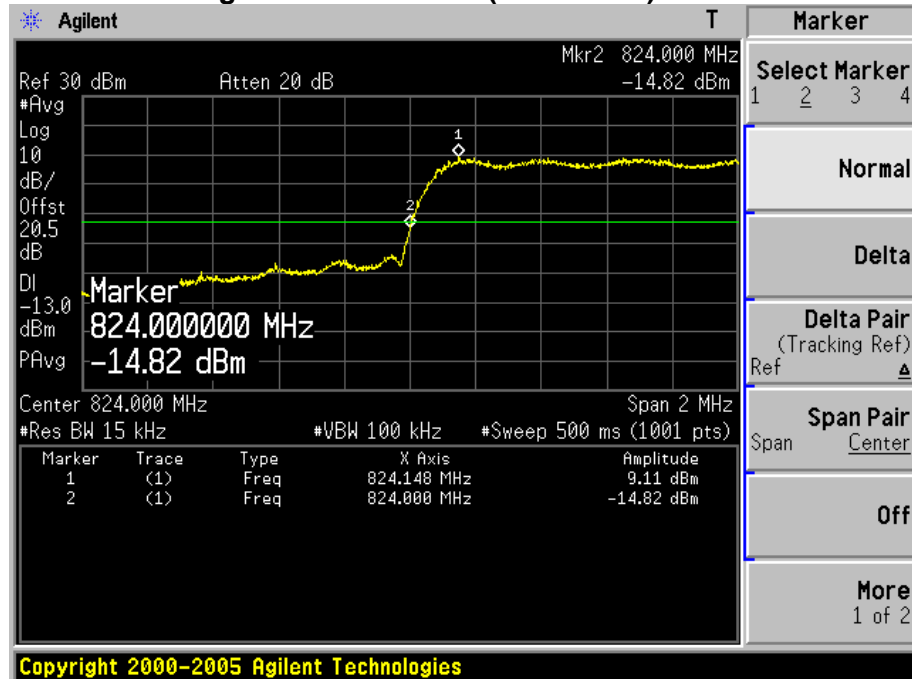
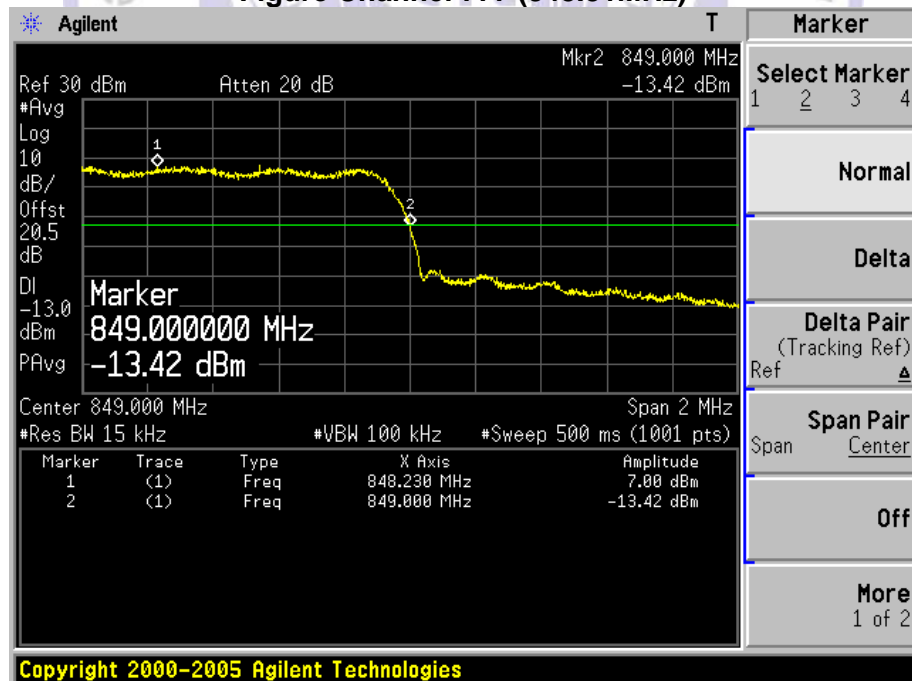
In the 1MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.

LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

TEST RESULTS

Product	Wireless Infrared Scouting Camera		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 1: CDMA 2000 1X BC0 Link		
Date of Test	2015/03/09	Test Site	AC-6

Figure Channel 1013 (824.70MHz)**Figure Channel 777 (848.31MHz)**

Product	Wireless Infrared Scouting Camera		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 2: CDMA 2000 1X BC1 Link		
Date of Test	2015/03/09	Test Site	AC-6

Figure Channel 25 (1851.25MHz)

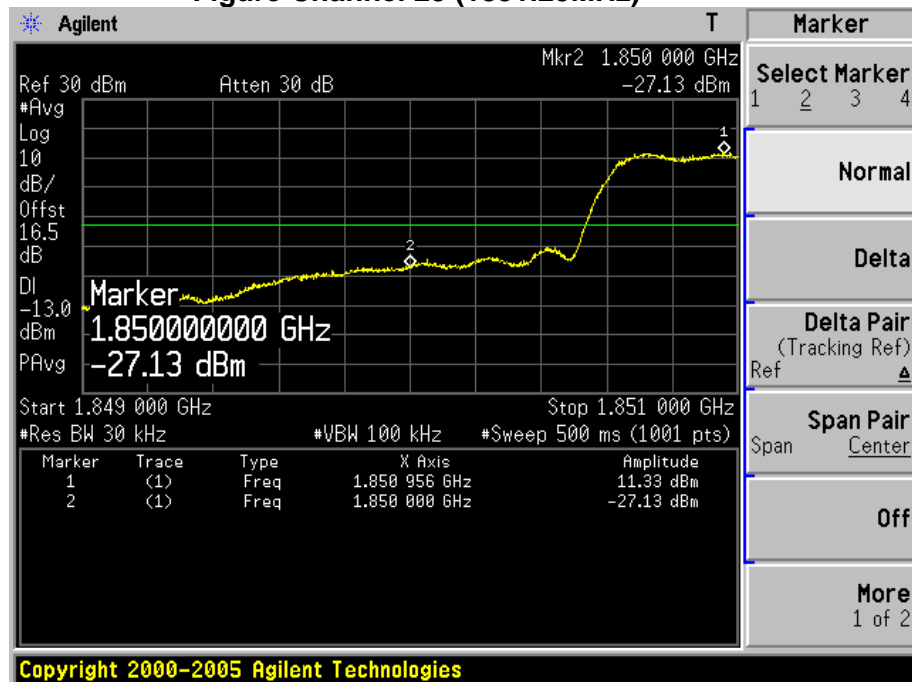
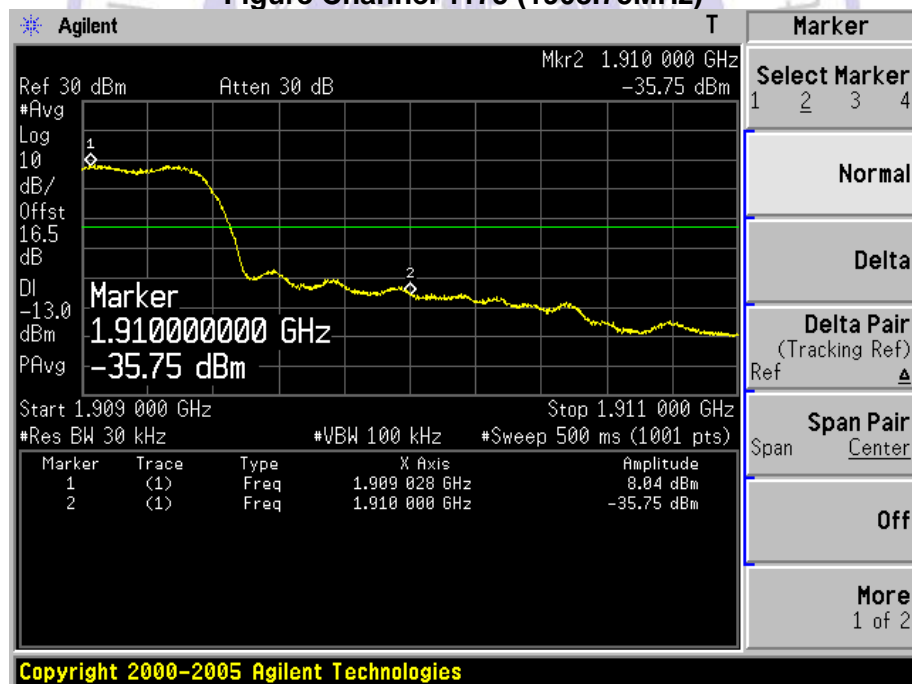


Figure Channel 1175 (1908.75MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 3: CDMA 2000 1XEVD0 Rel 0 BC0 Link		
Date of Test	2015/03/09	Test Site	AC-6

Figure Channel 1013 (824.70MHz)

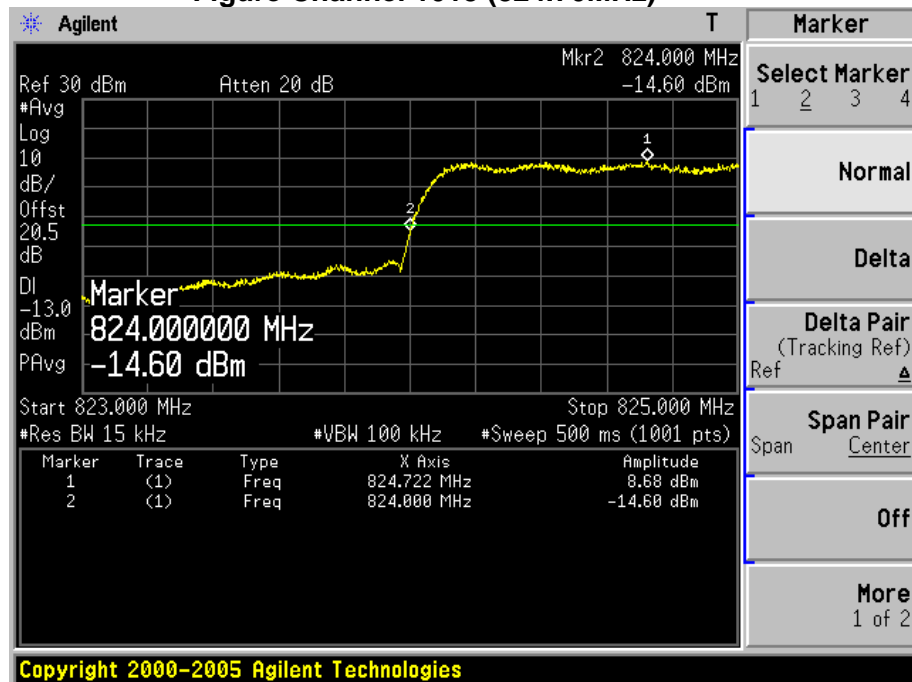
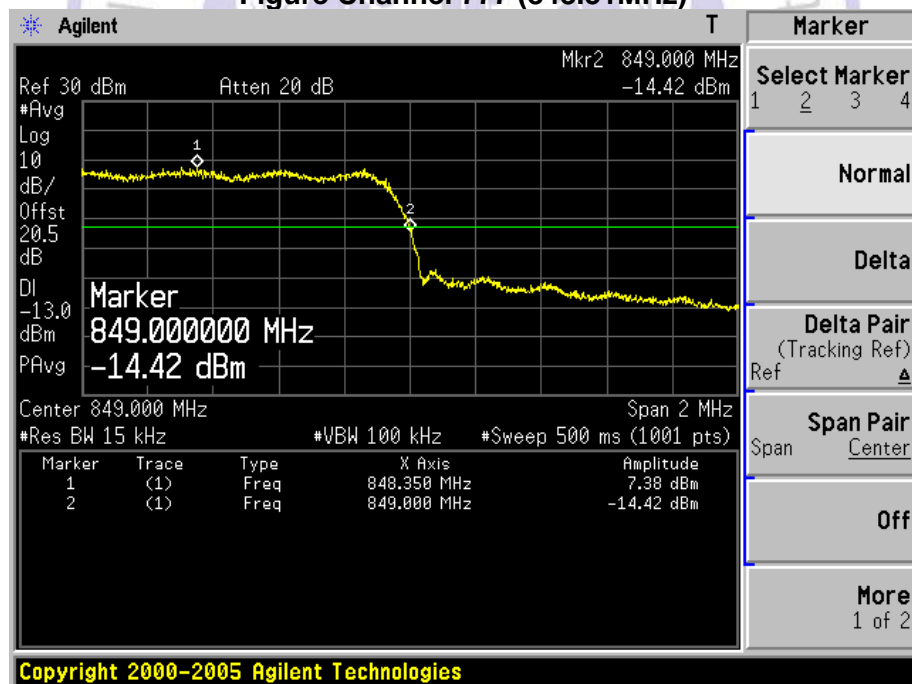


Figure Channel 777 (848.31MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 4: CDMA 2000 1XEVD0 Rel 0 BC1 Link		
Date of Test	2015/03/09	Test Site	AC-6

Figure Channel 25 (1851.25MHz)

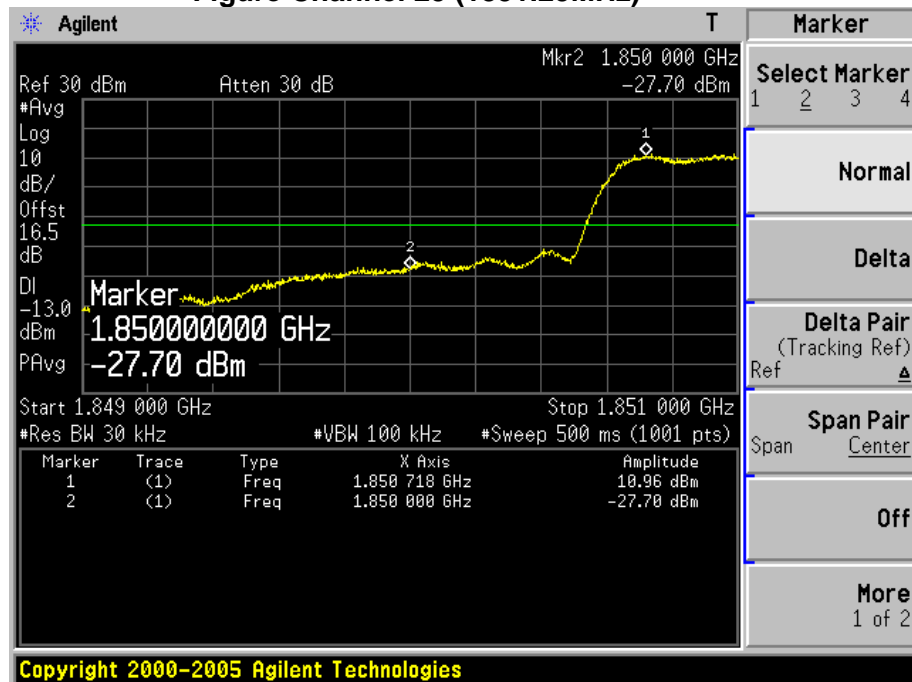
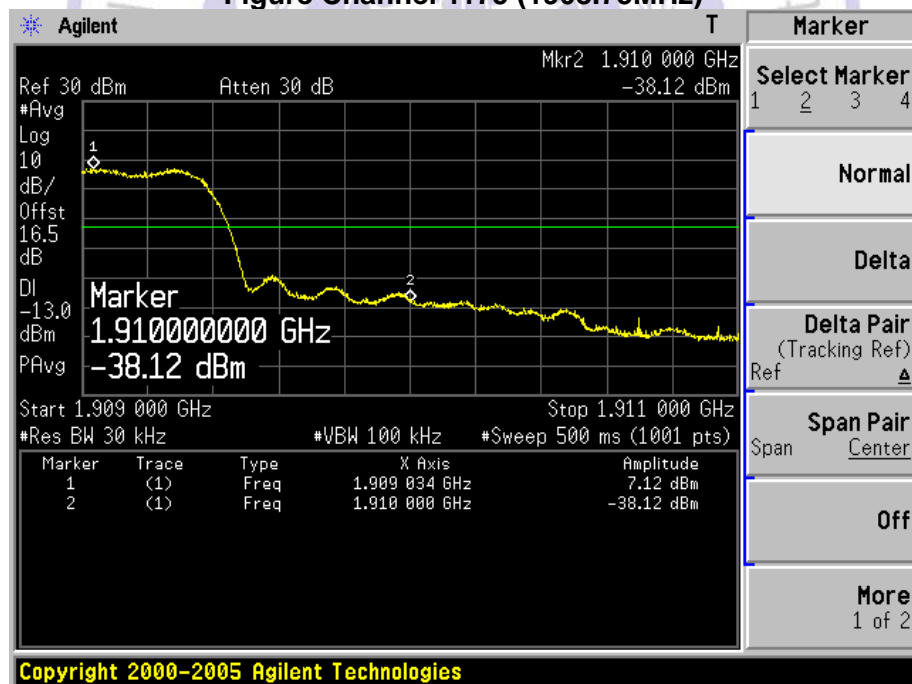


Figure Channel 1175 (1908.75MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 5: CDMA 2000 1XEVD0 Rel A BC0 Link		
Date of Test	2015/03/09	Test Site	AC-6

Figure Channel 1013 (824.70MHz)

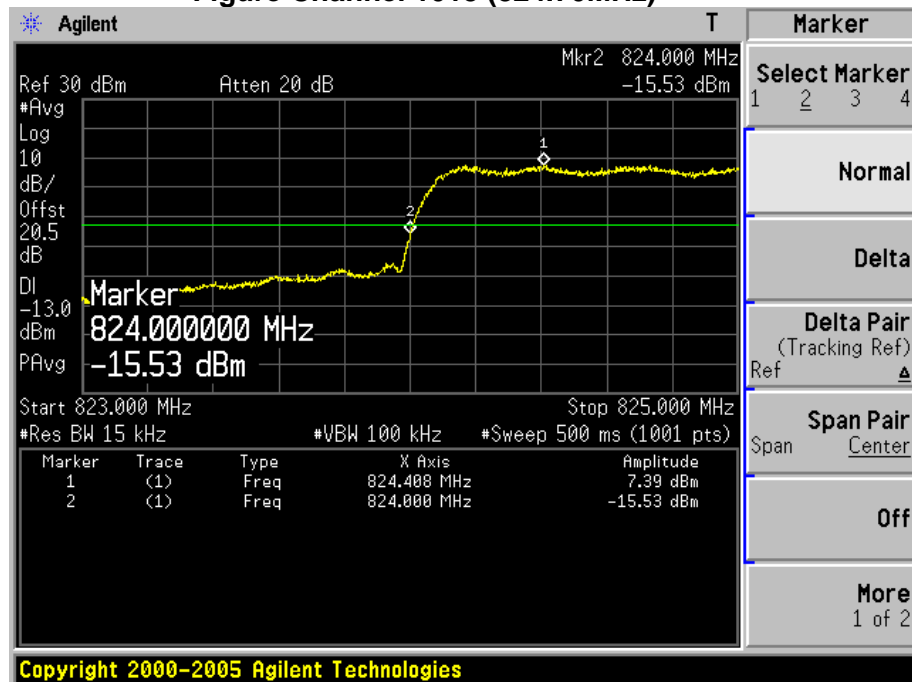


Figure Channel 777 (848.31MHz)



Product	Wireless Infrared Scouting Camera		
Test Item	Spurious Emission At Antenna Terminals (+/- 1MHz)		
Test Mode	Mode 6: CDMA 2000 1XEVD0 Rel A BC1 Link		
Date of Test	2015/03/09	Test Site	AC-6

Figure Channel 25 (1851.25MHz)

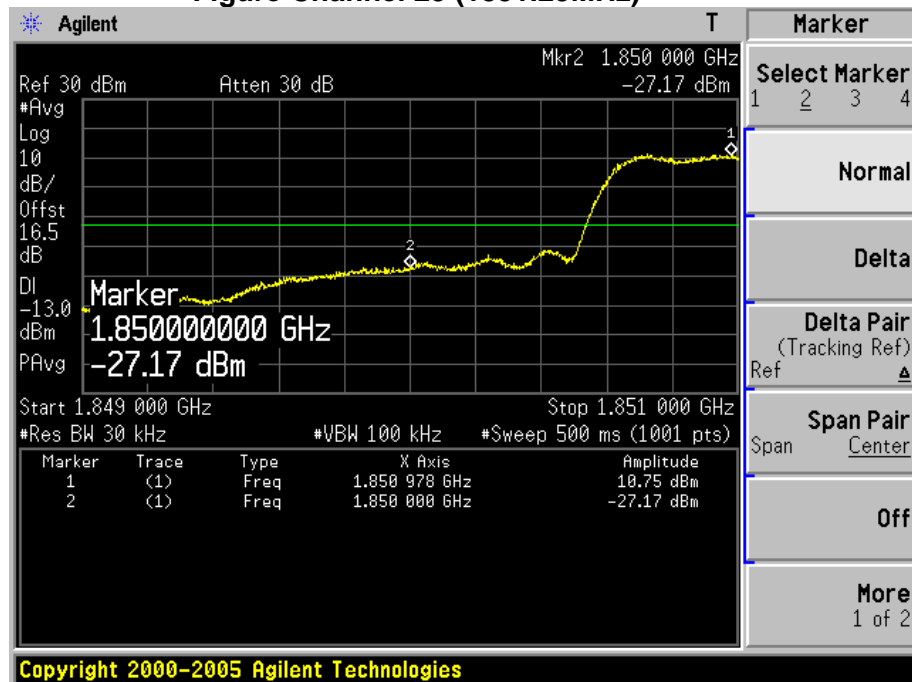
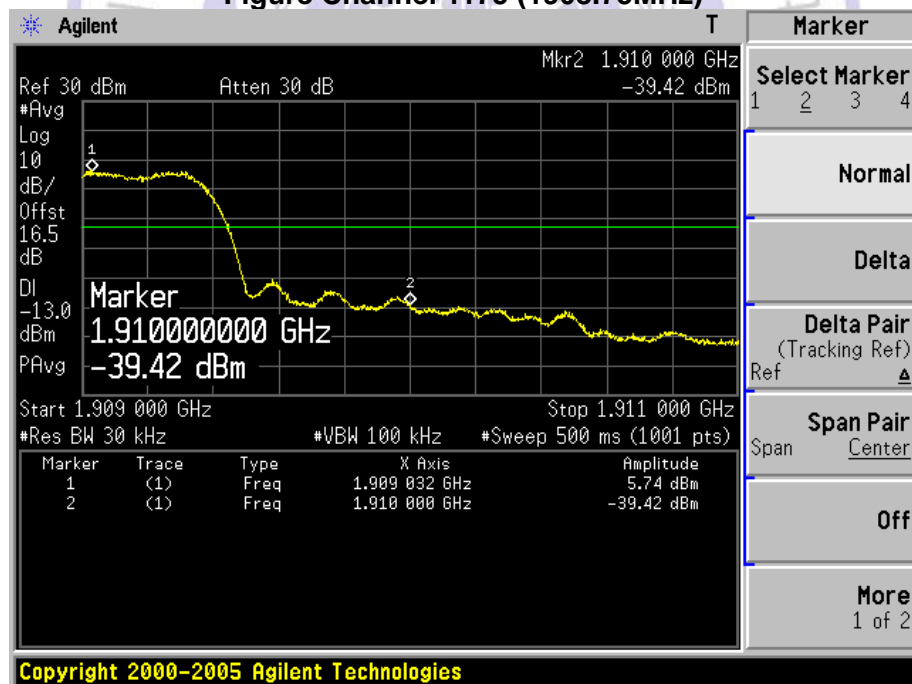


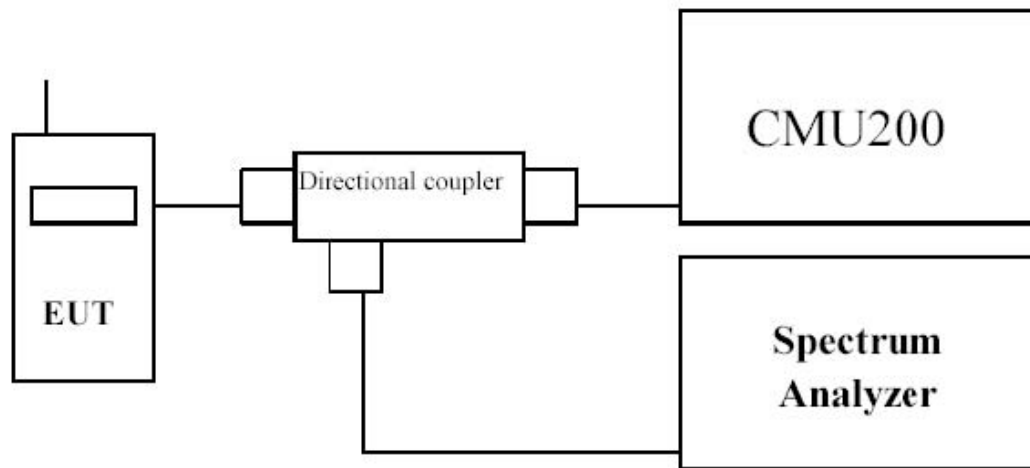
Figure Channel 1175 (1908.75MHz)



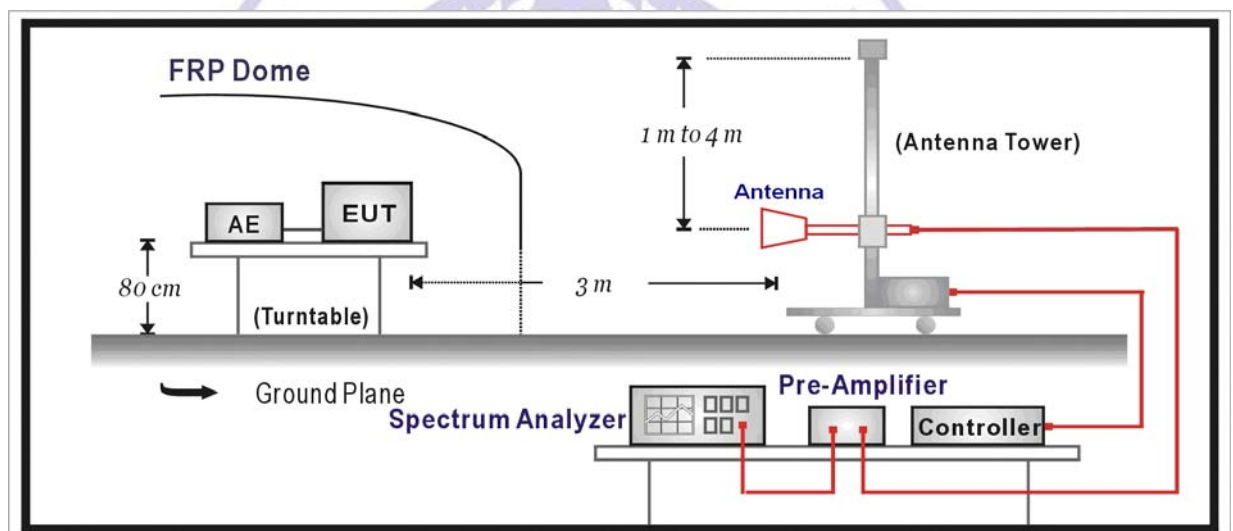
4.4. Spurious Emission

TEST CONFIGURATION

Conducted Spurious Measurement:



Radiated Spurious Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Conducted Spurious Measurement:

- Place the EUT on a bench and set it in transmitting mode.
- Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMU200 by a Directional Couple.
- EUT Communicate with CMU200, then select a channel for testing.
- Add a correction factor to the display of spectrum, and then test.
- The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic.

Radiated Spurious Measurement:

- a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.
- b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter
- c) The output of the test antenna shall be connected to the measuring receiver.
- d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
- e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
- f) The transmitter shall then be rotated through 360° in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
- g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
- q) The maximum signal level detected by the measuring receiver shall be noted.
- h) The transmitter shall be replaced by a substitution antenna.
- i) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
- j) The substitution antenna shall be connected to a calibrated signal generator.
- k) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
- l) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
- m) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
- n) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
- o) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
- p) The resolution bandwidth of the spectrum analyzer was set at 100 kHz for Part 22 and 1MHz for Part 24. The frequency range was checked up to 10th harmonic.
- q) Test site anechoic chamber refer to ANSI C63.4: 2009

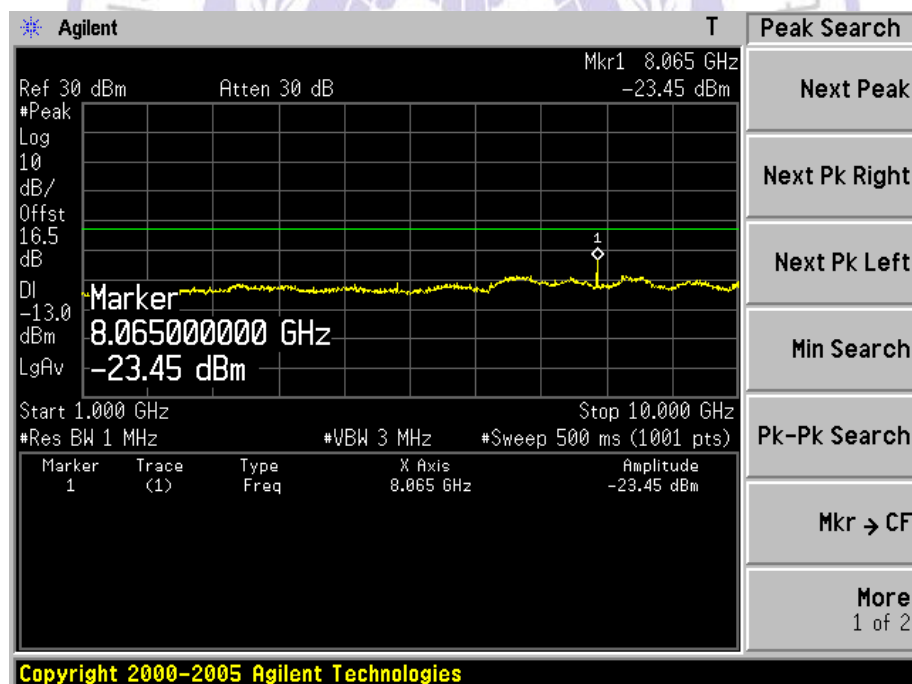
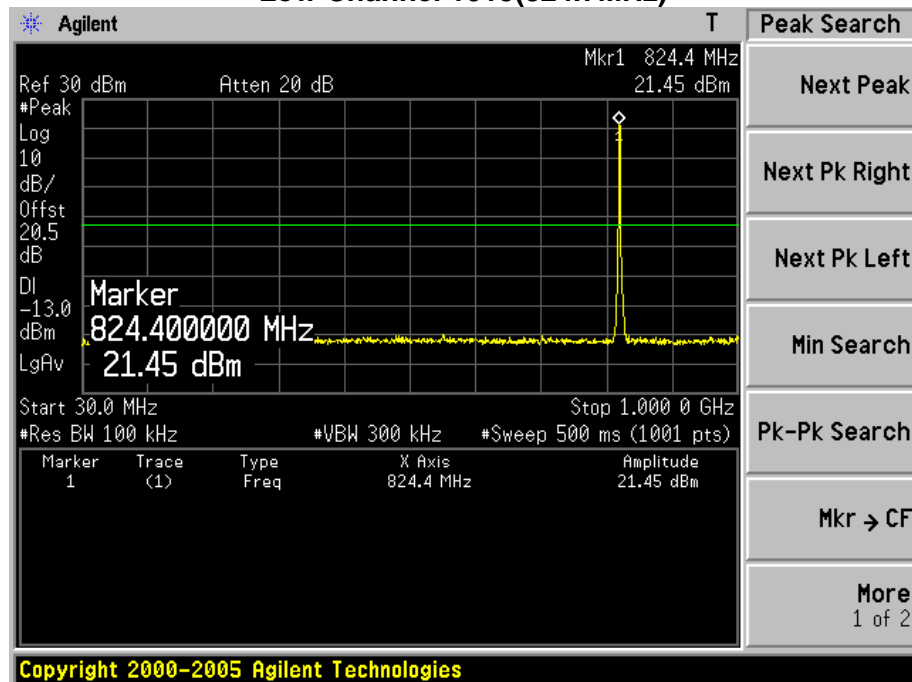
LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10\log(P)$ dB.

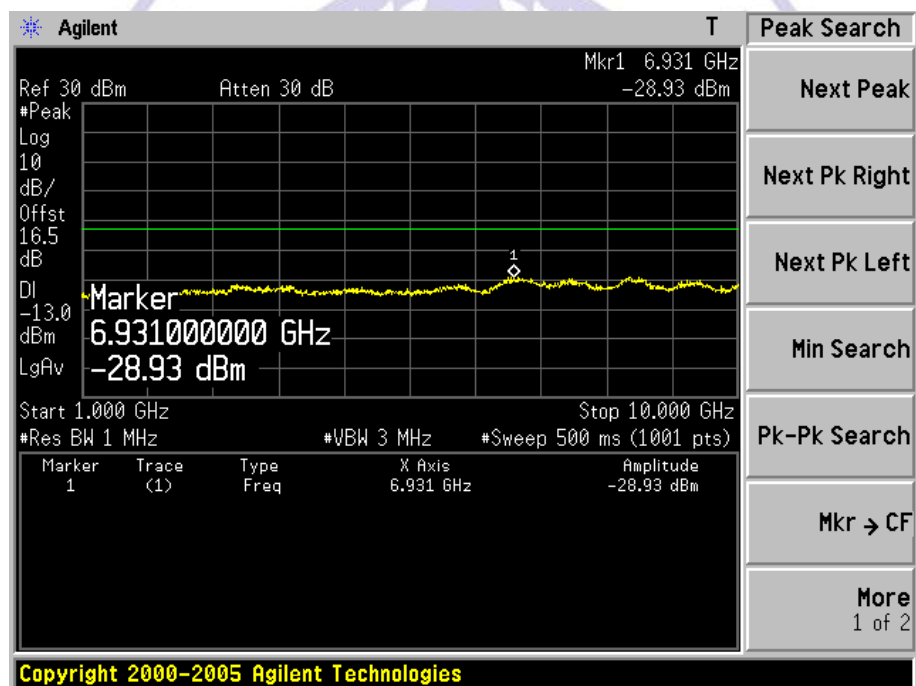
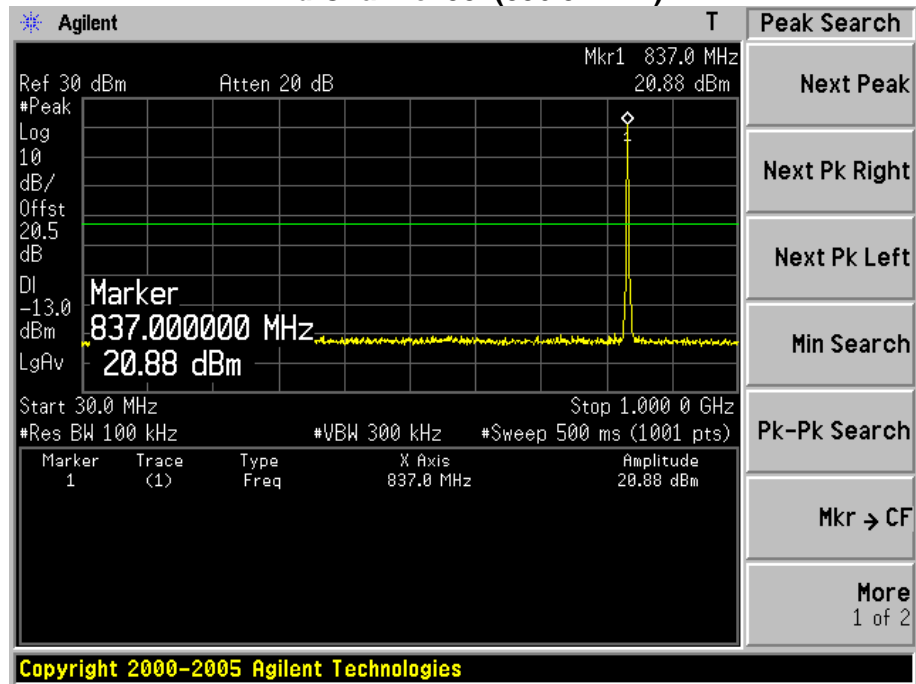
TEST RESULTS

Product	Wireless Infrared Scouting Camera		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 1: CDMA 2000 1X BC0 Link Link		
Date of Test	2015/03/09	Test Site	TR-8

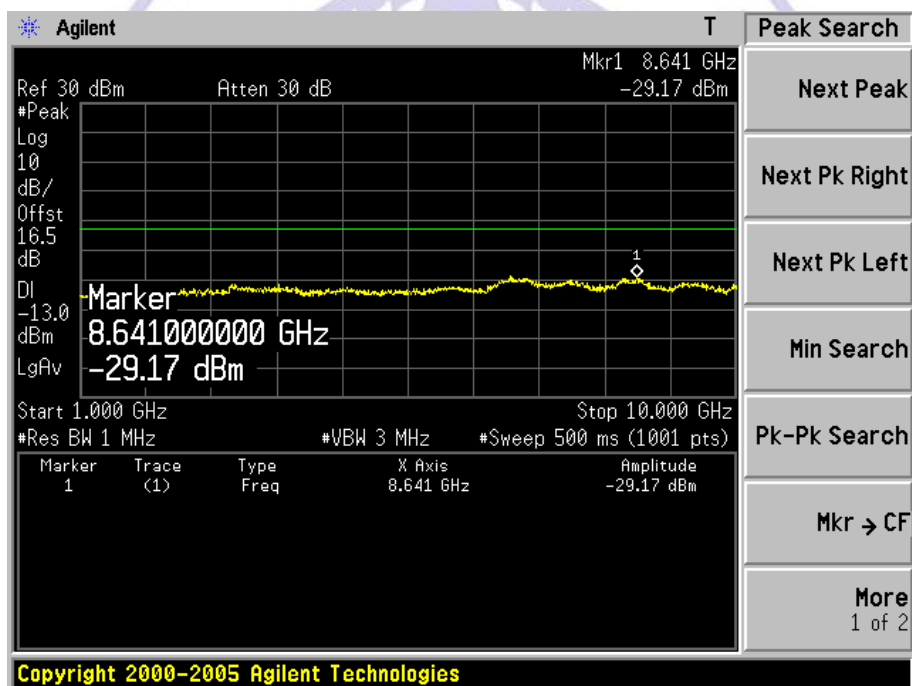
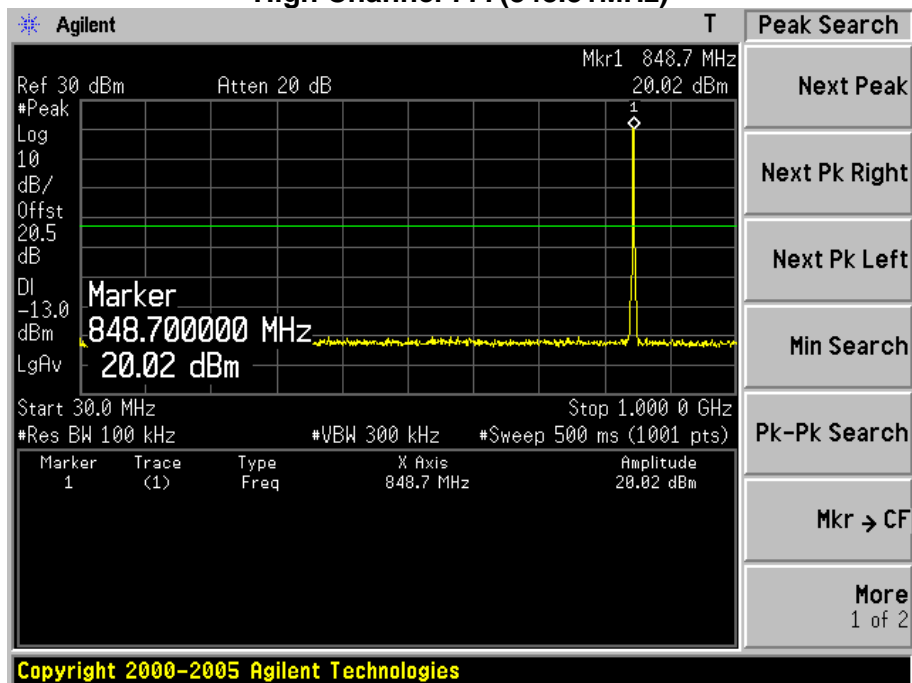
Low Channel 1013(824.7MHz)



Mid Channel 384(836.52MHz)

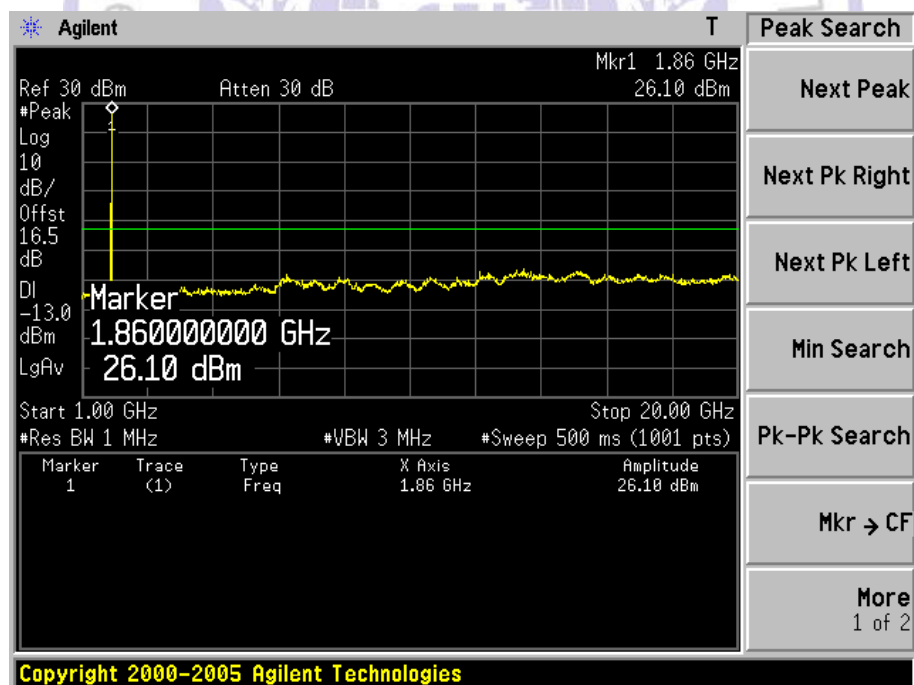
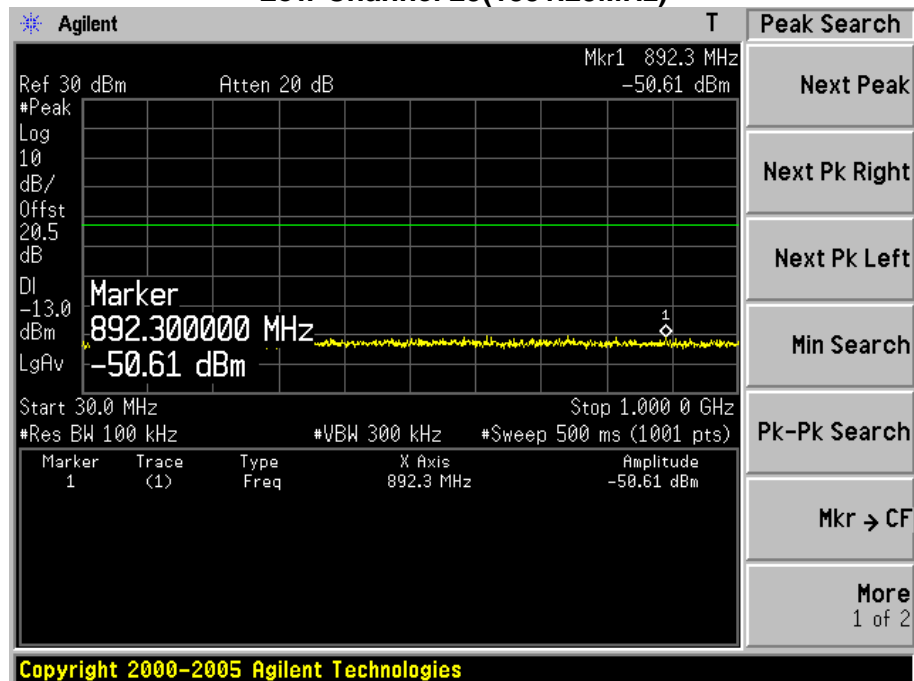


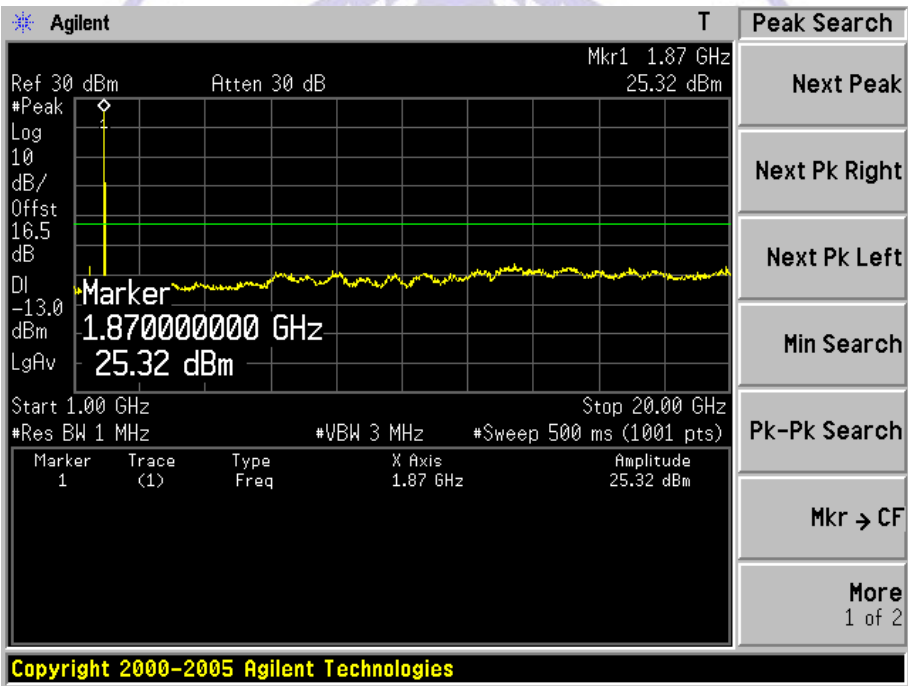
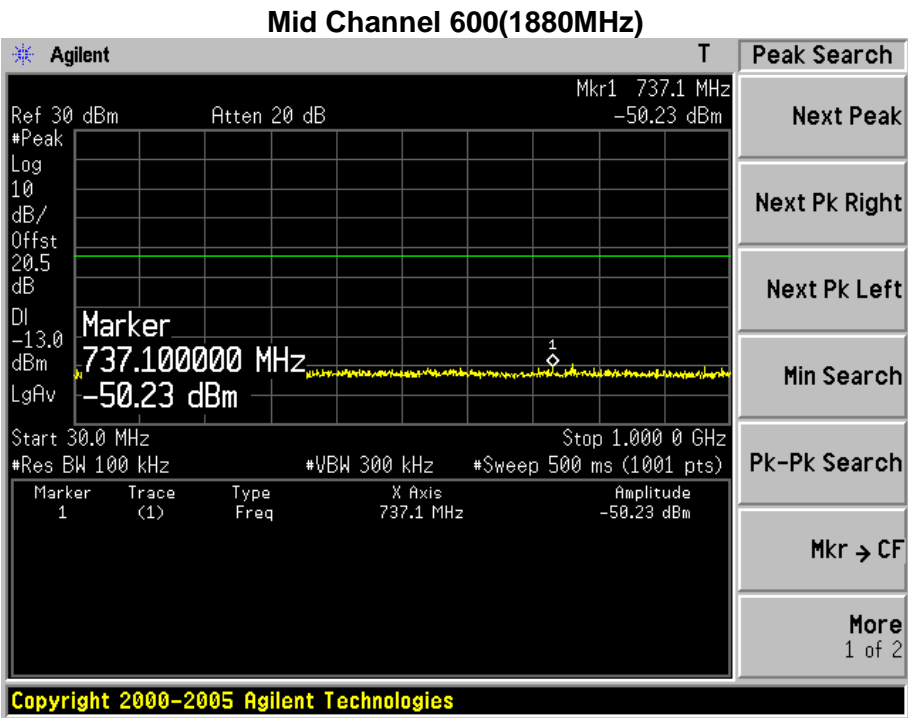
High Channel 777(848.31MHz)



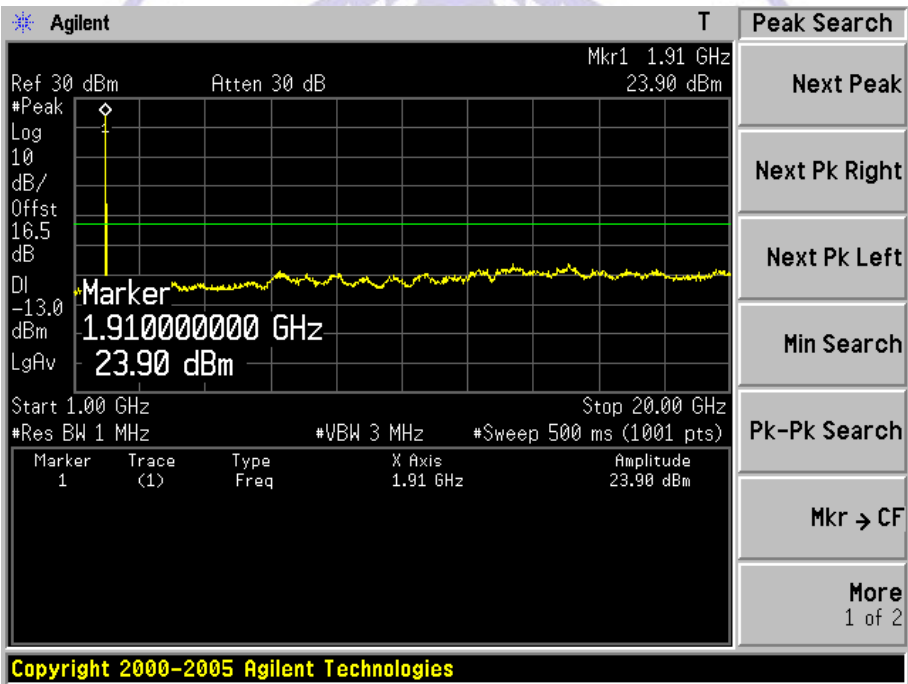
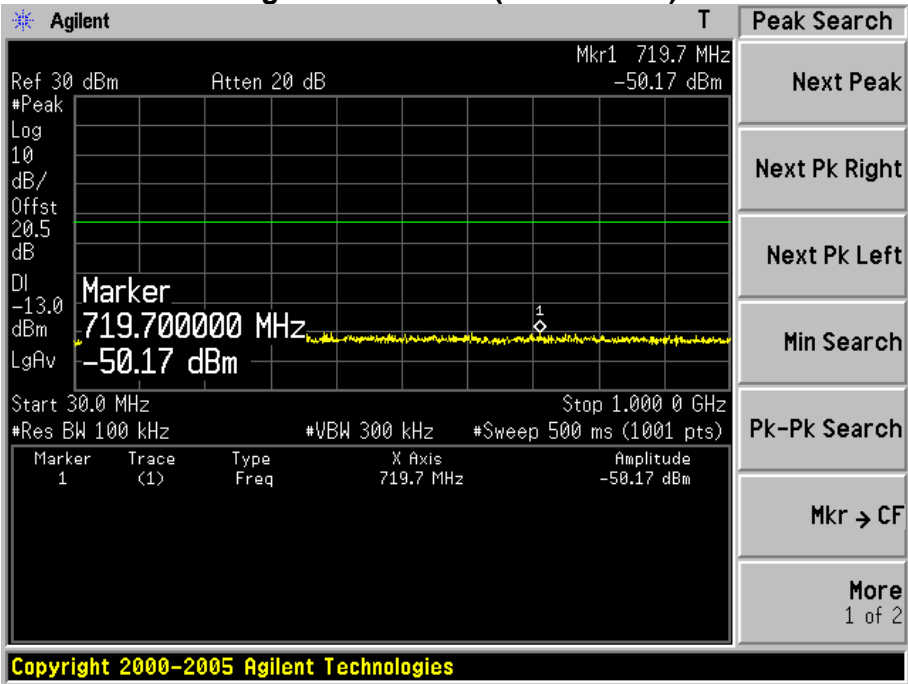
Product	Wireless Infrared Scouting Camera		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 2: CDMA 2000 1X BC1 Link		
Date of Test	2015/03/09	Test Site	TR-8

Low Channel 25(1851.25MHz)



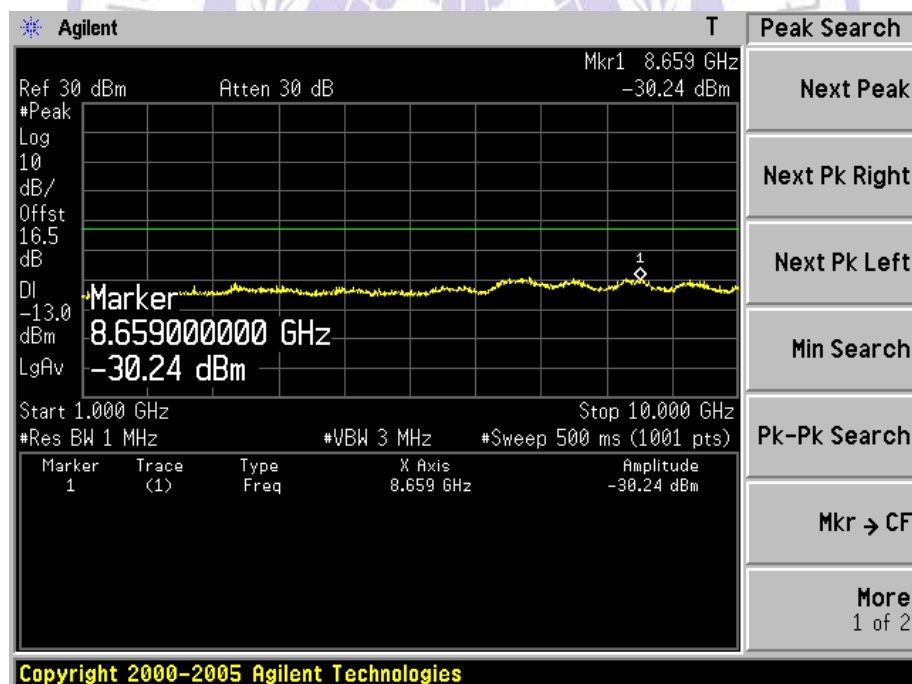
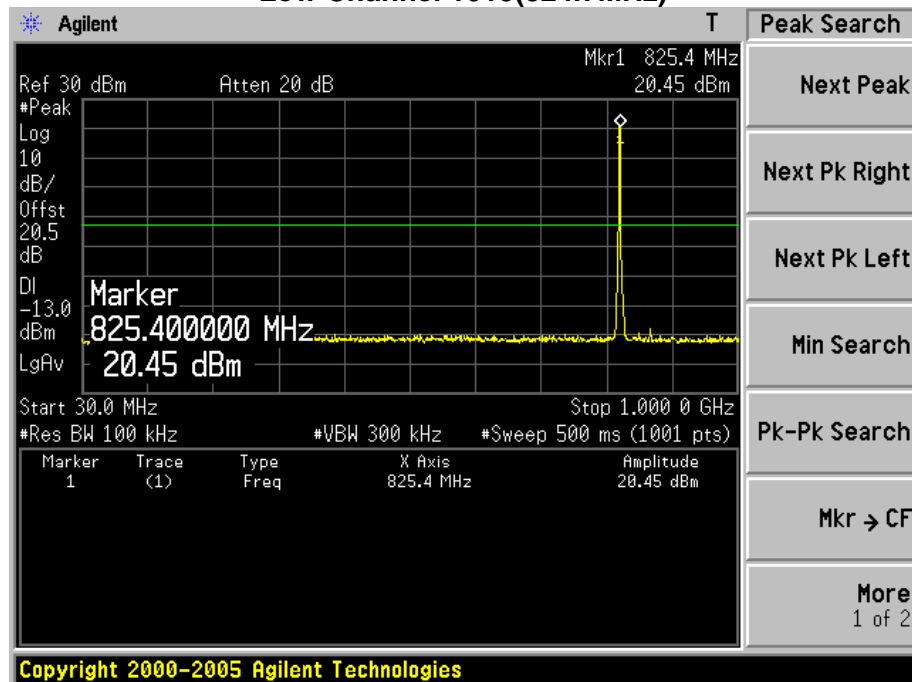


High Channel 1175(1908.75MHz)

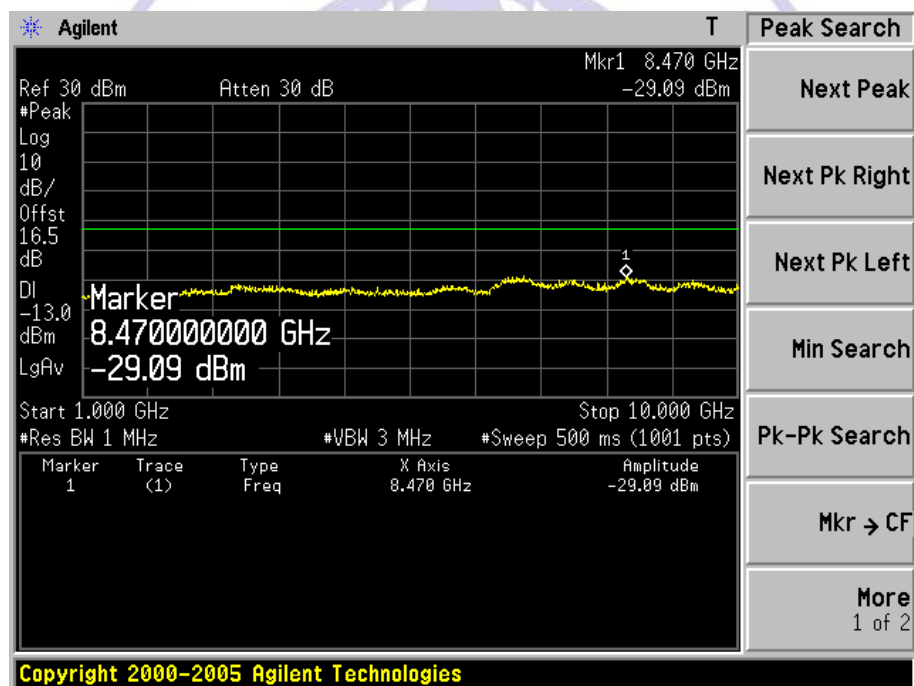
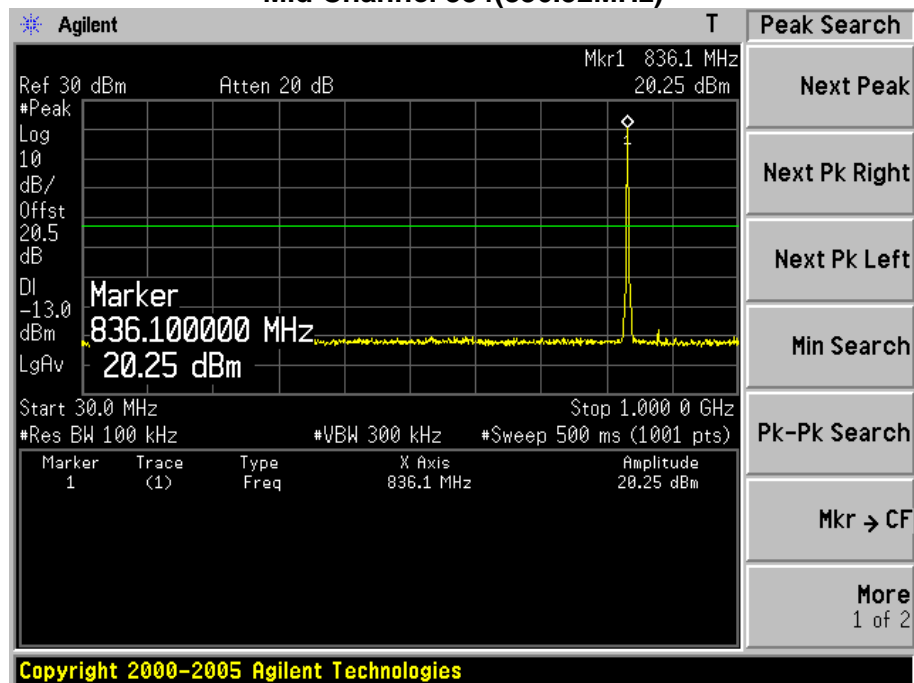


Product	Wireless Infrared Scouting Camera		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 3: CDMA 2000 1XEVD0 Rel-0 BC0 Link		
Date of Test	2015/03/09	Test Site	TR-8

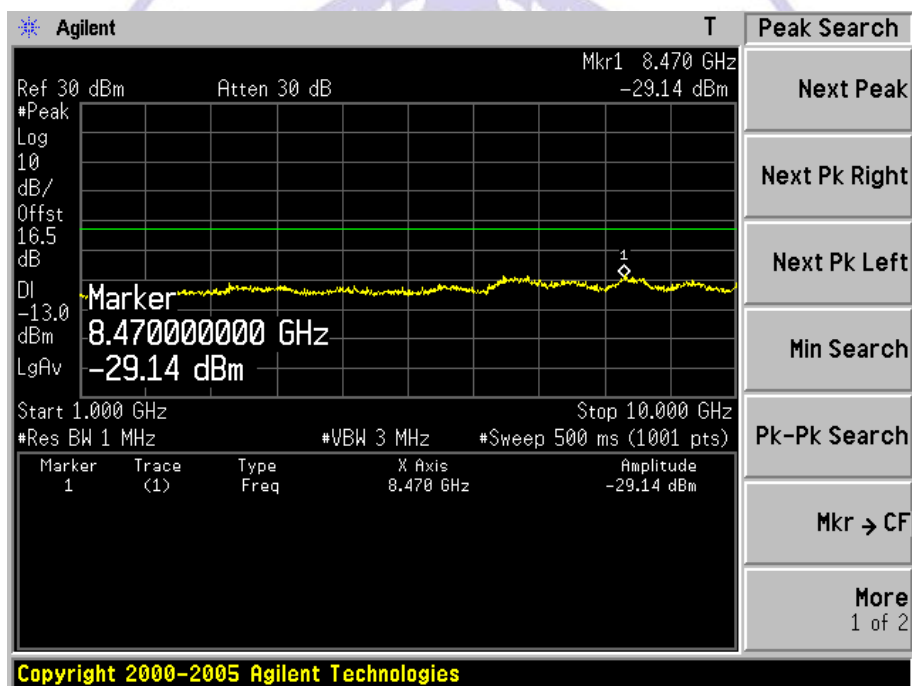
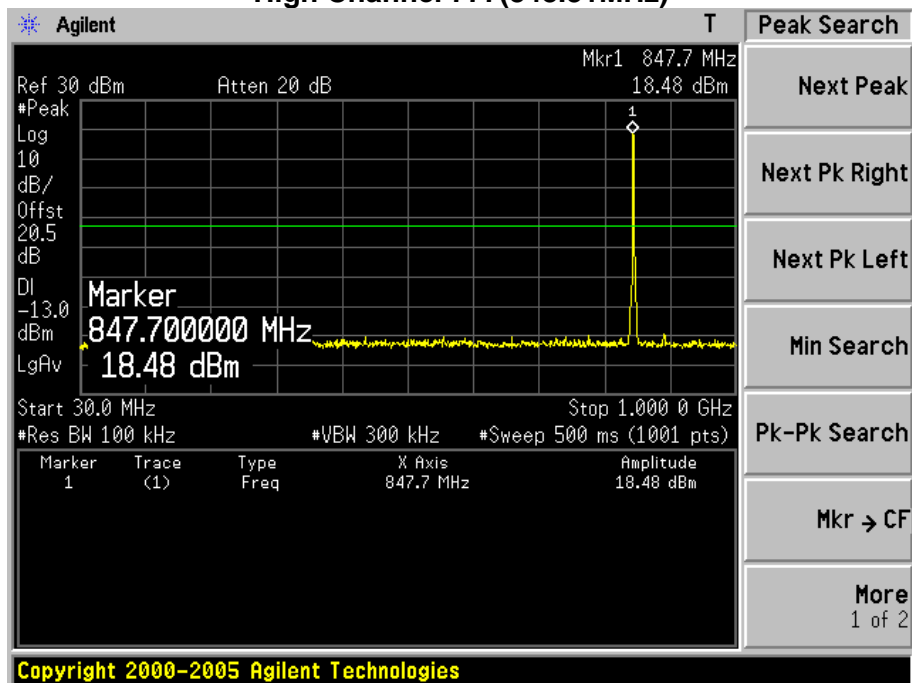
Low Channel 1013(824.7MHz)



Mid Channel 384(836.52MHz)

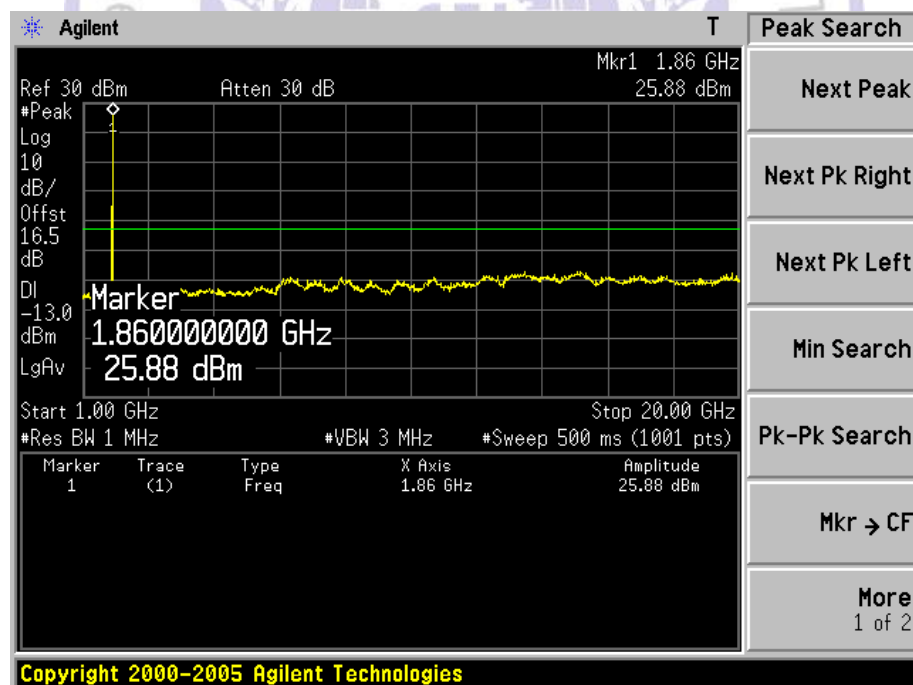
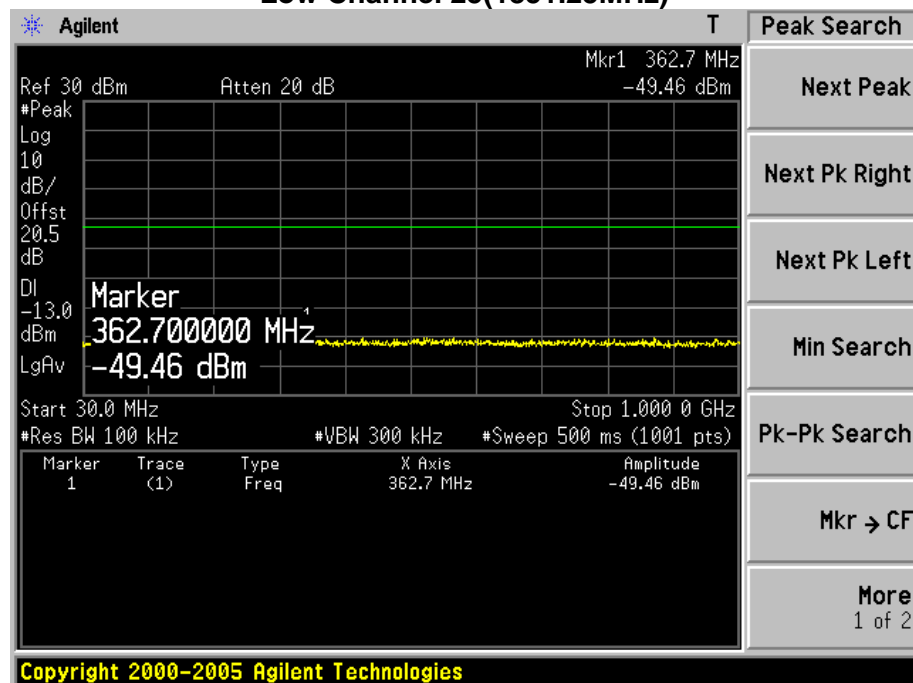


High Channel 777(848.31MHz)

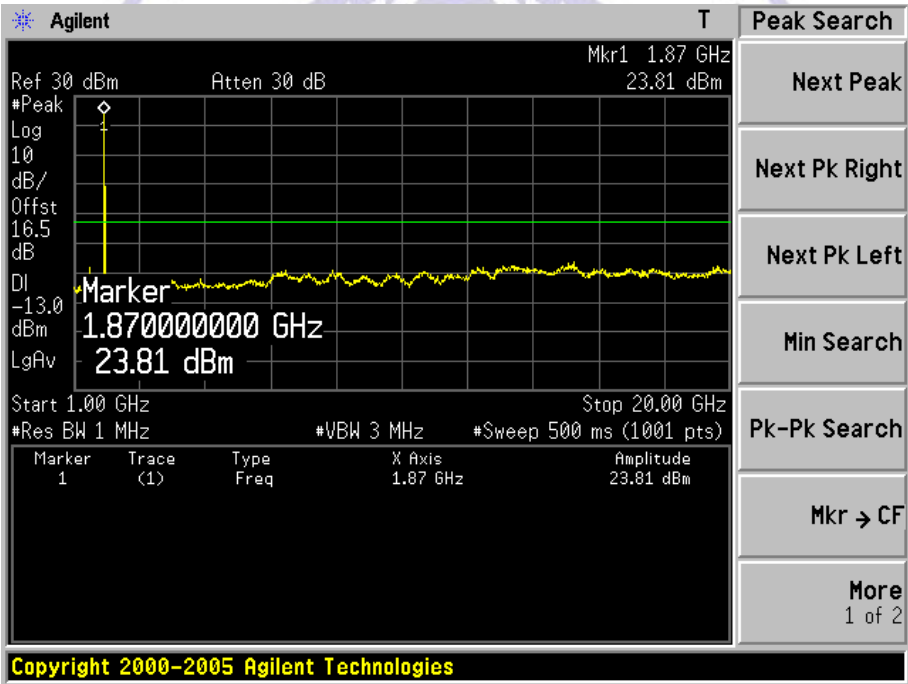
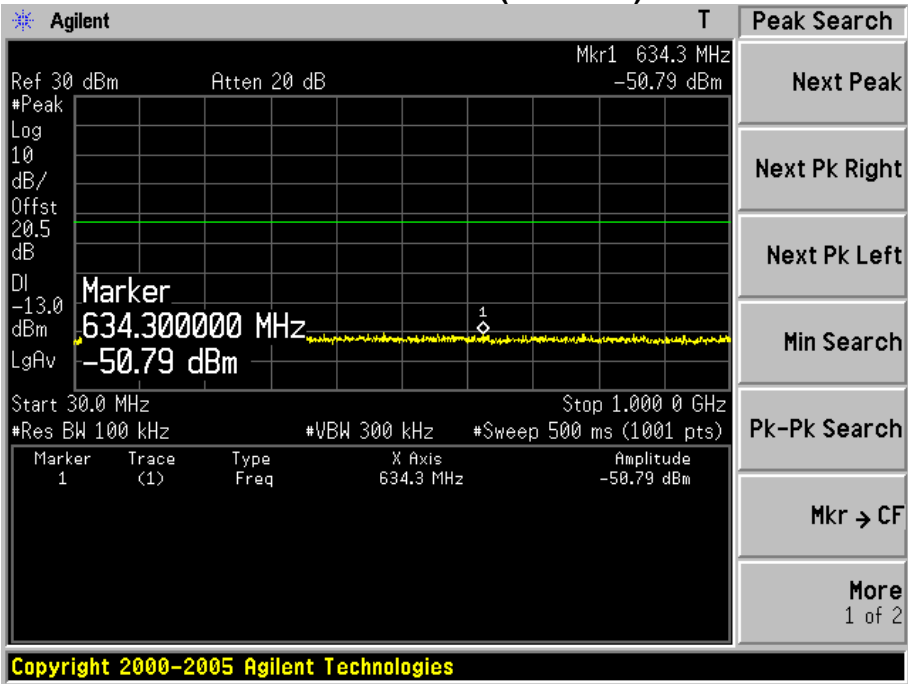


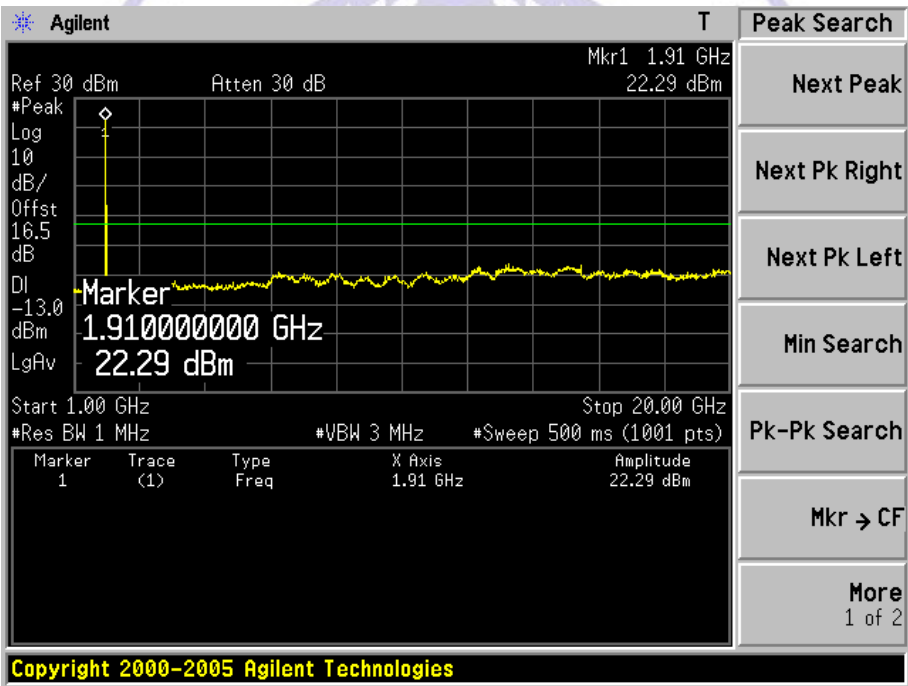
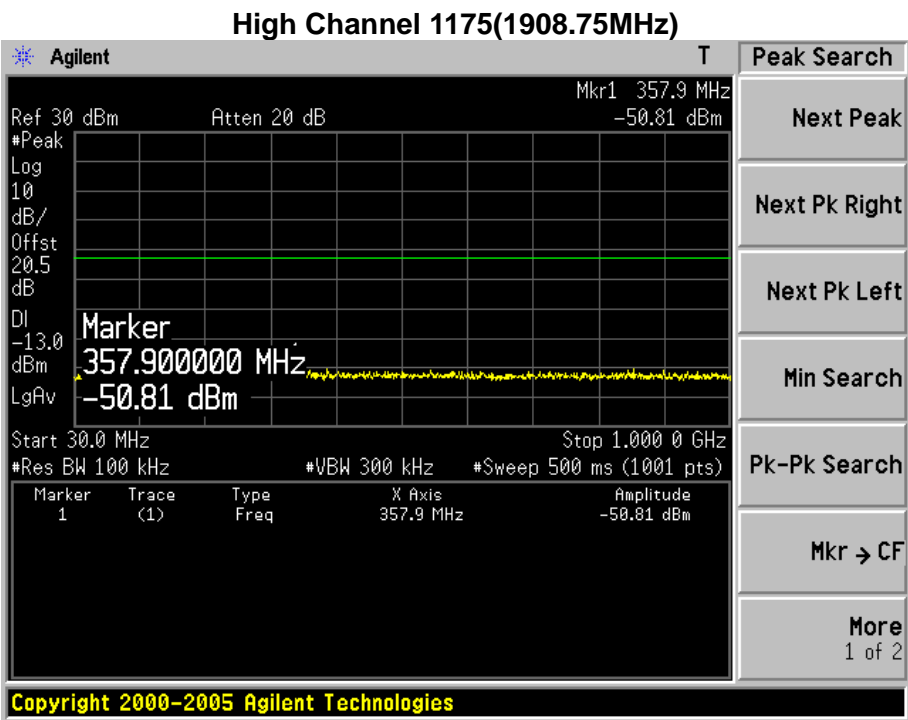
Product	Wireless Infrared Scouting Camera		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 4: CDMA 2000 1XEVD0 Rel-0 BC1 Link		
Date of Test	2015/03/09	Test Site	TR-8

Low Channel 25(1851.25MHz)



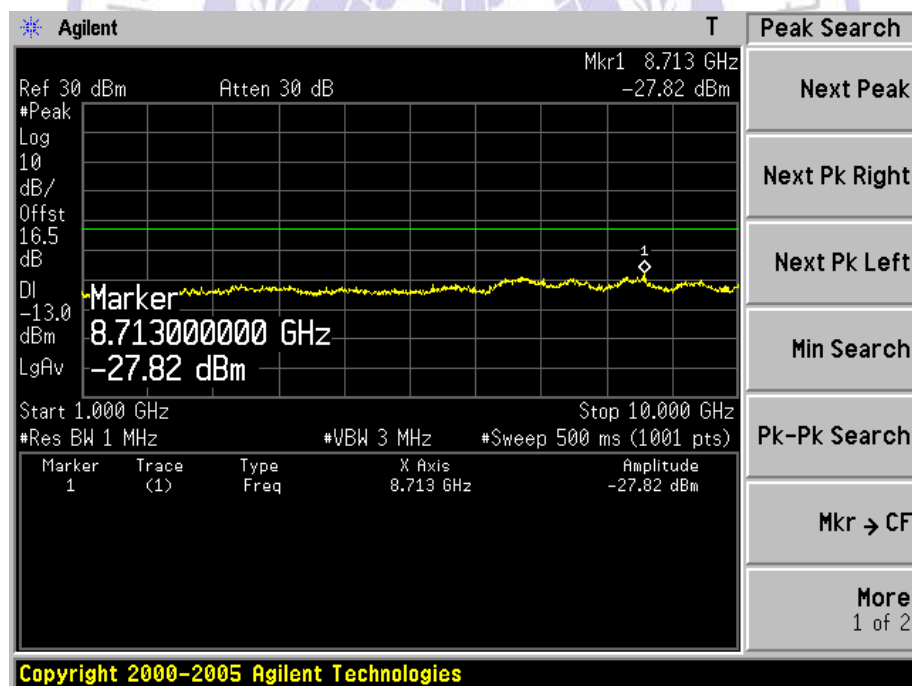
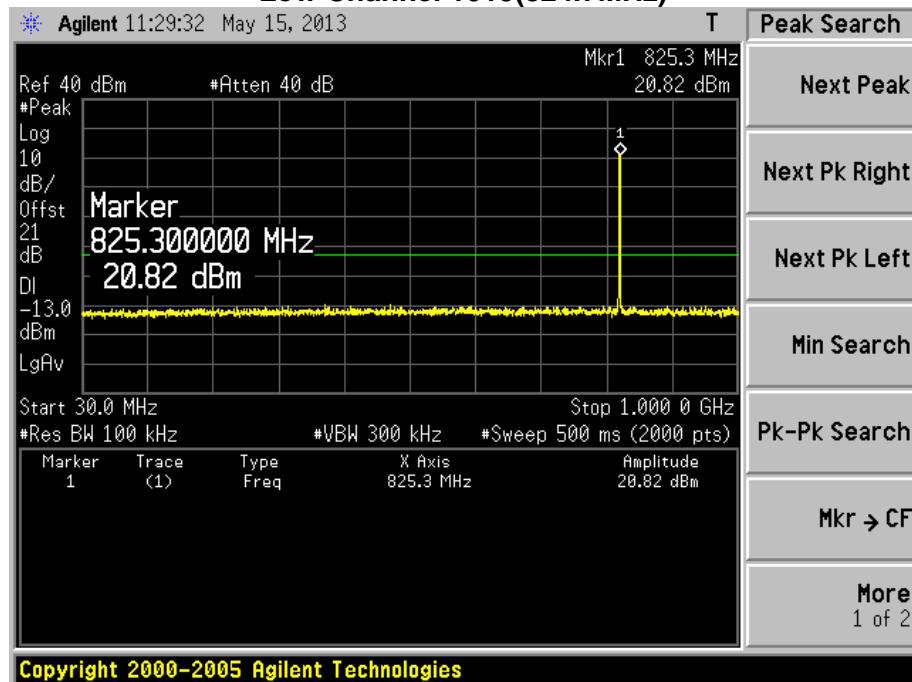
Mid Channel 600(1880MHz)



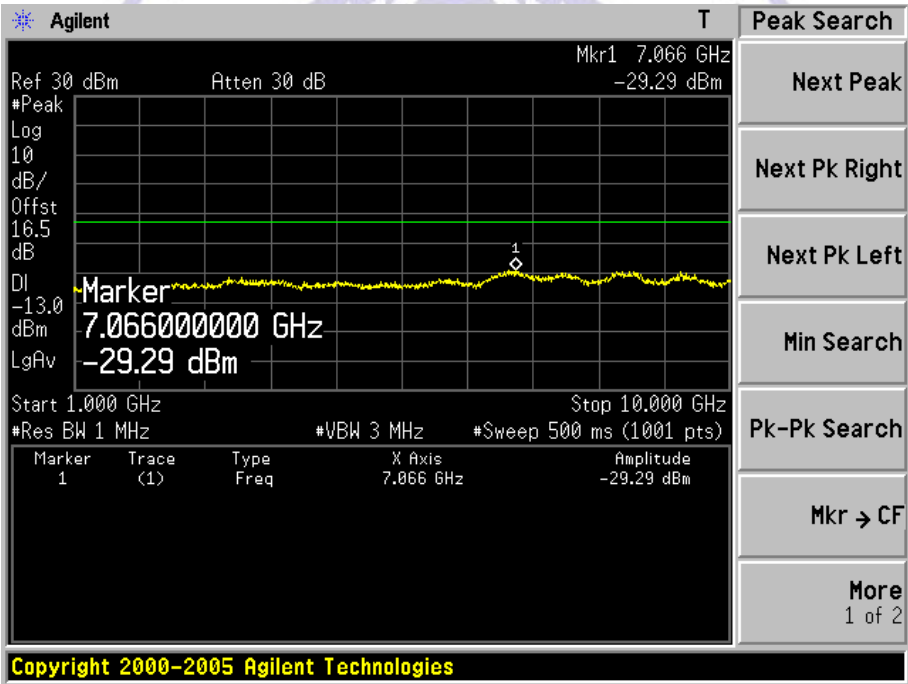
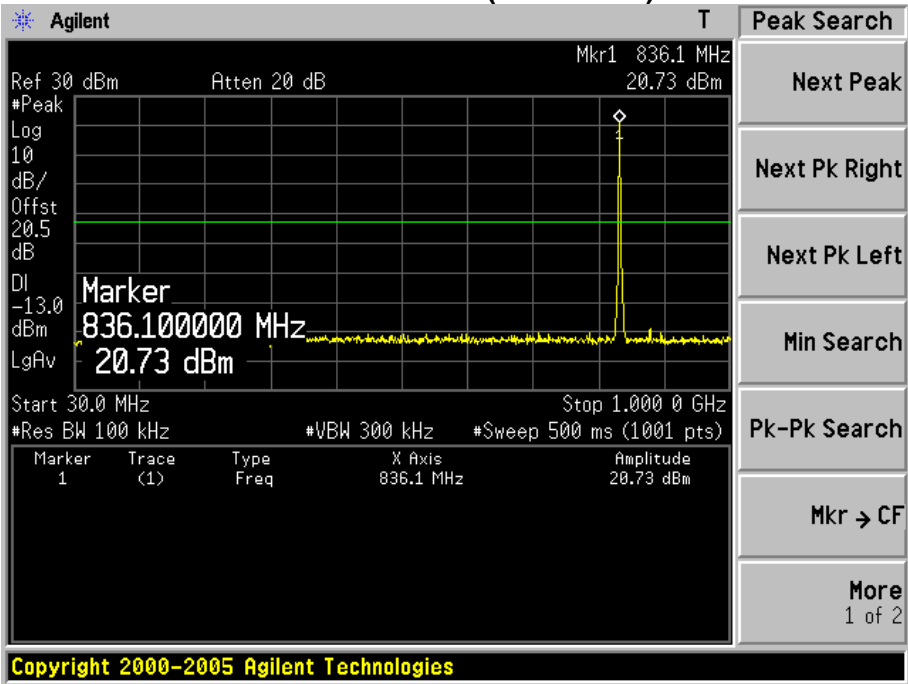


Product	Wireless Infrared Scouting Camera		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 5: CDMA 2000 1XEVD0 Rel-A BC0 Link		
Date of Test	2015/03/09	Test Site	TR-8

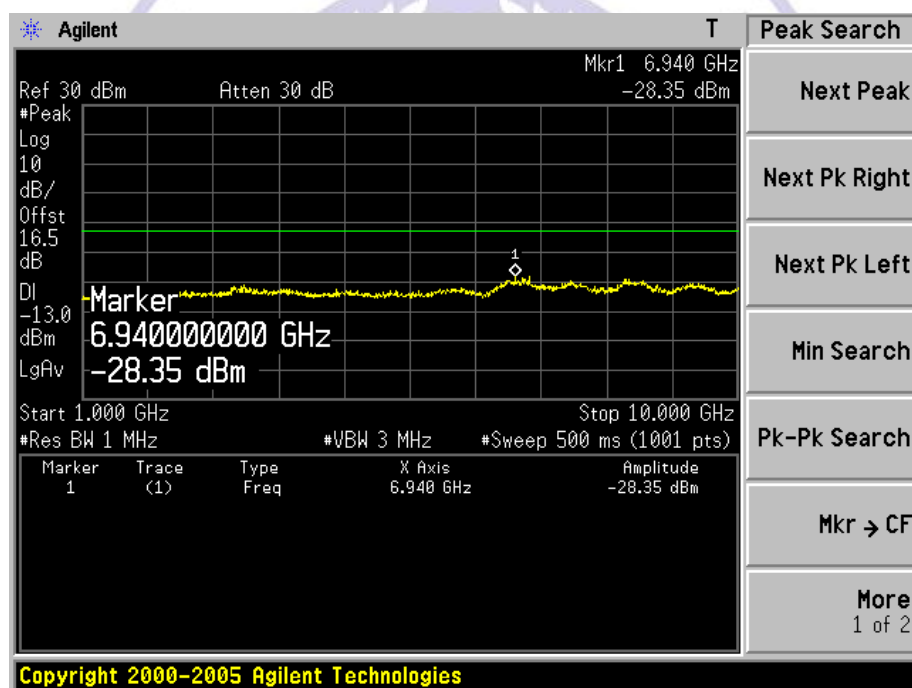
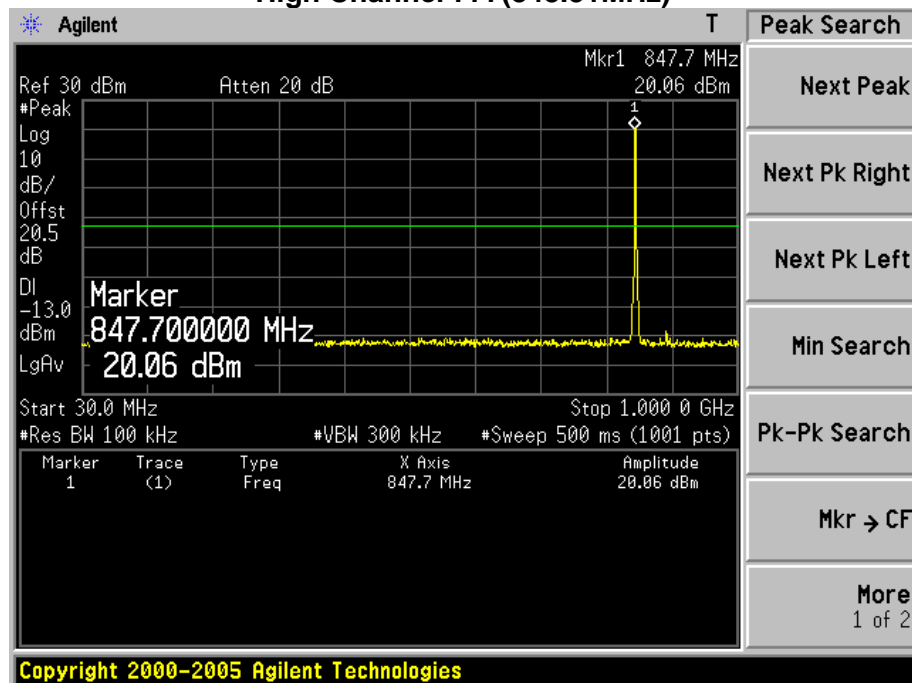
Low Channel 1013(824.7MHz)



Mid Channel 384(836.52MHz)

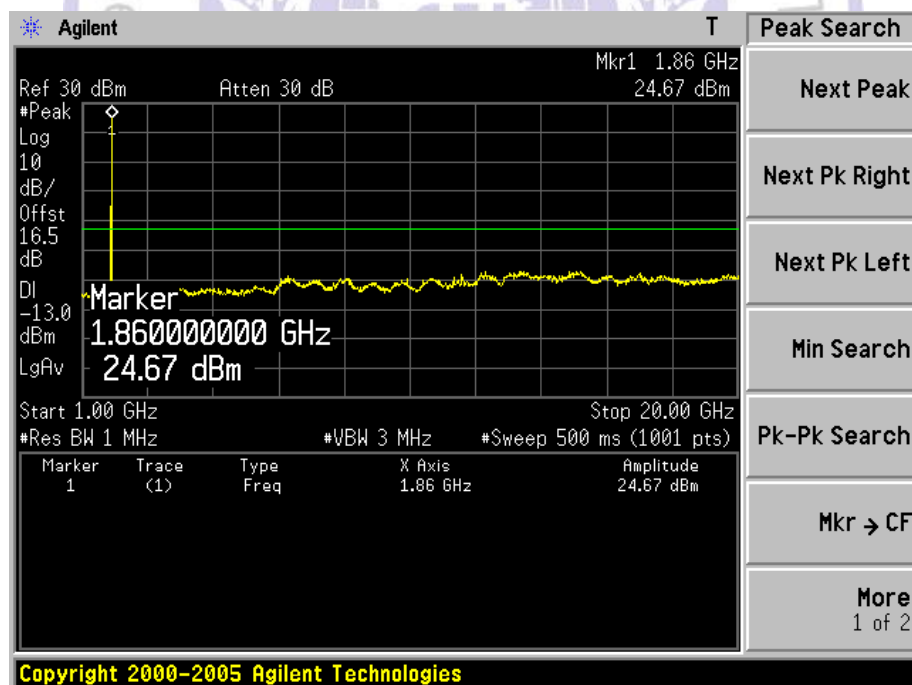
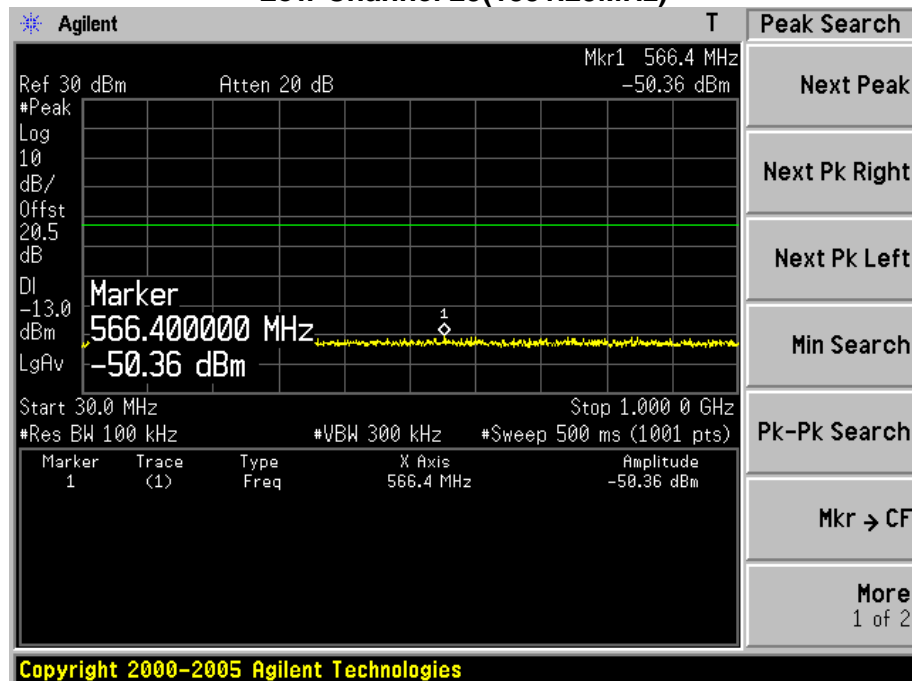


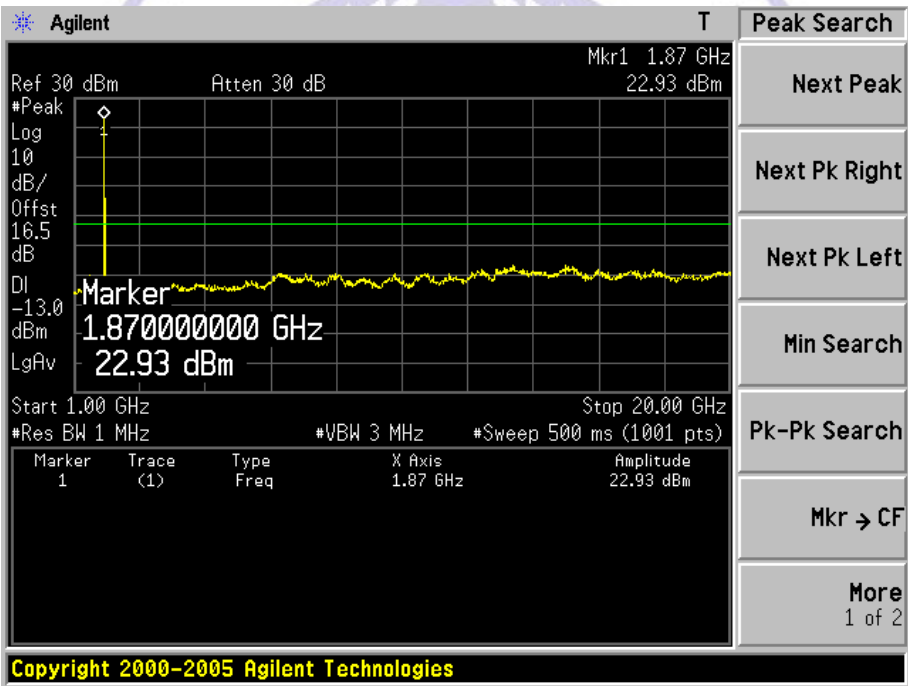
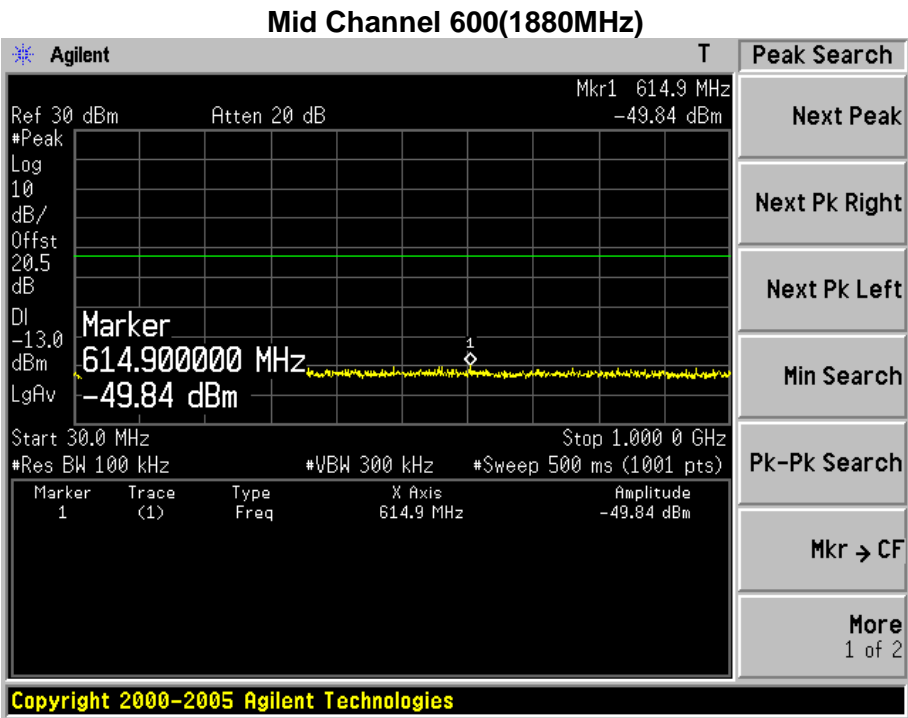
High Channel 777(848.31MHz)

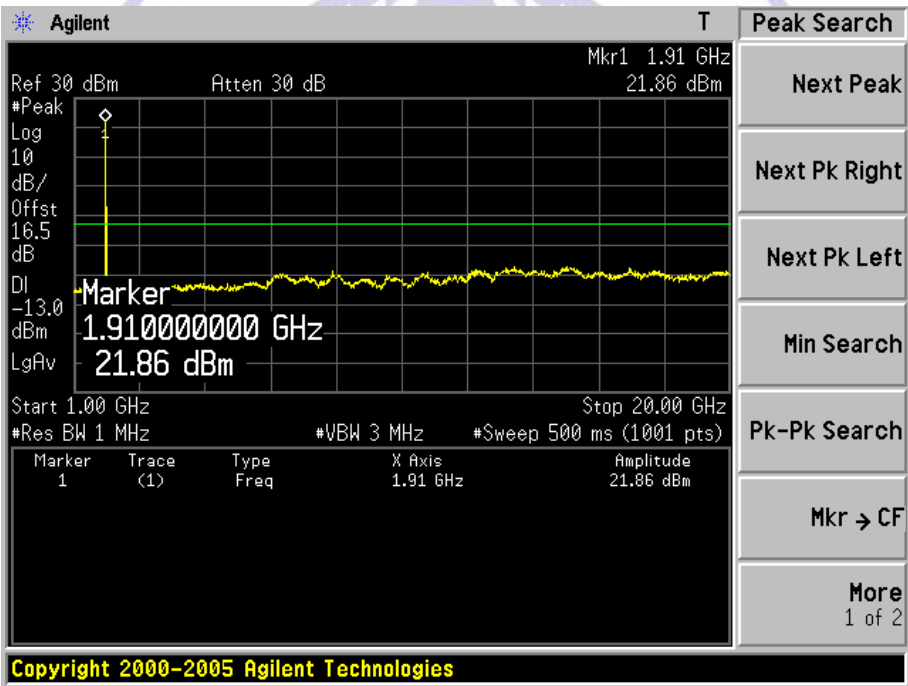
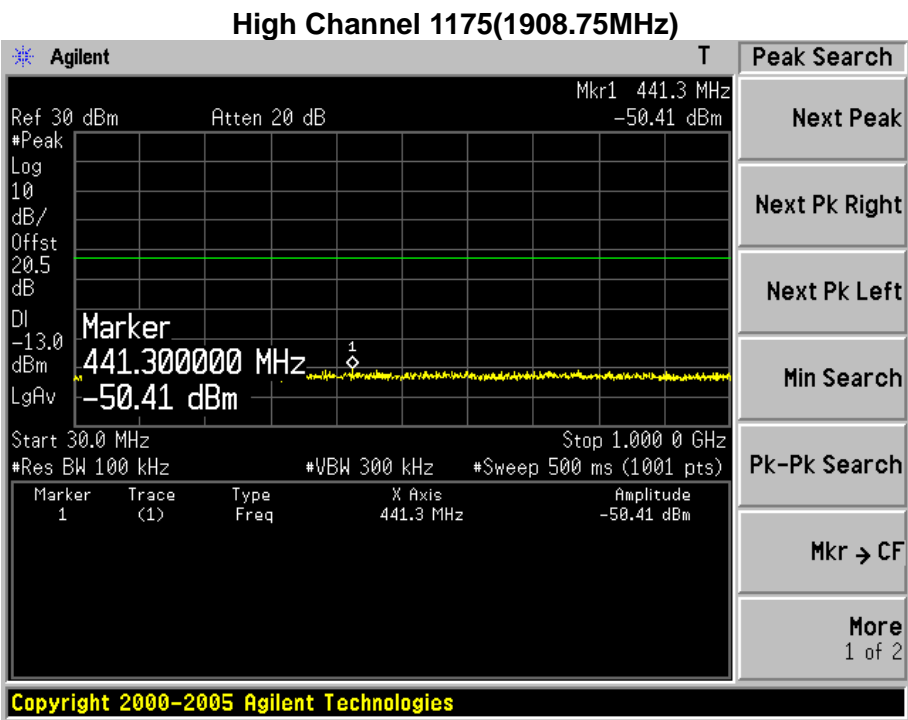


Product	Wireless Infrared Scouting Camera		
Test Item	Conducted Spurious Emission		
Test Mode	Mode 6: CDMA 2000 1XEVD0 Rel-A BC1 Link		
Date of Test	2015/03/09	Test Site	TR-8

Low Channel 25(1851.25MHz)







Product	Wireless Infrared Scouting Camera		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 1: CDMA 2000 1X BC0 Link		
Date of Test	2015/03/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 1013 (824.70MHz)								
1649.40	-63.20	V	-65.78	2.50	9.78	-58.50	-13.00	-45.50
2474.10	-63.60	V	-62.71	3.12	10.49	-55.34	-13.00	-42.34
1649.40	-59.05	H	-61.74	2.50	9.78	-54.46	-13.00	-41.46
2474.10	-63.84	H	-62.78	3.12	10.49	-55.41	-13.00	-42.41
Middle Channel 384 (836.52MHz)								
1672.64	-60.98	V	-63.64	2.51	9.94	-56.21	-13.00	-43.21
2508.96	-59.87	V	-59.17	3.18	10.61	-51.74	-13.00	-38.74
1672.64	-60.93	H	-63.32	2.51	9.94	-55.89	-13.00	-42.89
2508.96	-63.09	H	-62.07	3.18	10.61	-54.64	-13.00	-41.64
High Channel 777 (848.31MHz)								
1696.62	-60.56	V	-63.35	2.53	10.10	-55.78	-13.00	-42.78
2544.93	-63.76	V	-62.23	3.15	10.67	-54.71	-13.00	-41.71
1696.62	-59.53	H	-61.58	2.53	10.10	-54.01	-13.00	-41.01
2544.93	-64.34	H	-62.55	3.15	10.67	-55.03	-13.00	-42.03



Product	Wireless Infrared Scouting Camera		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 2: CDMA 2000 1X BC1 Link		
Date of Test	2015/03/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 25 (1851.25MHz)								
3702.50	-62.47	V	-45.23	3.83	12.69	-50.28	-13.00	-23.37
5553.75	-64.41	V	-52.12	4.82	13.14	-47.77	-13.00	-30.80
3702.50	-63.98	H	-49.74	3.83	12.69	-51.82	-13.00	-27.88
5553.75	-65.42	H	-51.71	4.82	13.14	-49.23	-13.00	-30.39
Middle Channel 600 (1880MHz)								
3760.00	-63.98	V	-49.94	3.73	12.72	-51.38	-13.00	-27.95
5640.00	-66.01	V	-49.55	4.92	13.13	-49.33	-13.00	-28.34
3760.00	-64.04	H	-50.96	3.73	12.72	-51.37	-13.00	-28.97
5640.00	-65.94	H	-55.59	4.92	13.13	-49.55	-13.00	-34.38
High Channel 1175 (1908.75MHz)								
3817.50	-64.27	V	-42.08	3.98	12.73	-52.79	-13.00	-20.33
5726.25	-64.99	V	-47.76	4.86	13.11	-49.42	-13.00	-26.51
3817.50	-64.59	H	-45.53	3.98	12.73	-52.72	-13.00	-23.78
5726.25	-64.17	H	-50.71	4.86	13.11	-47.99	-13.00	-29.46



Product	Wireless Infrared Scouting Camera		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 3: CDMA 2000 1XEVD0 Rel-0 BC0 Link		
Date of Test	2015/03/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 1013 (824.70MHz)								
1649.40	-62.07	V	-57.52	2.50	9.78	-50.24	-13.00	-37.24
2474.10	-65.12	V	-56.23	3.12	10.49	-48.86	-13.00	-35.86
1649.40	-61.24	H	-57.29	2.50	9.78	-50.01	-13.00	-37.01
2474.10	-64.41	H	-55.62	3.12	10.49	-48.25	-13.00	-35.25
Middle Channel 384 (836.52MHz)								
1672.64	-59.03	V	-61.70	2.51	9.94	-54.27	-13.00	-41.27
2508.96	-60.57	V	-59.87	3.18	10.61	-52.44	-13.00	-39.44
1672.64	-58.90	H	-61.32	2.51	9.94	-53.89	-13.00	-40.89
2508.96	-62.75	H	-61.73	3.18	10.61	-54.30	-13.00	-41.30
High Channel 777 (848.31MHz)								
1696.62	-60.93	V	-63.71	2.53	10.10	-56.14	-13.00	-43.14
2544.93	-62.62	V	-61.09	3.15	10.67	-53.57	-13.00	-40.57
1696.62	-58.35	H	-60.40	2.53	10.10	-52.83	-13.00	-39.83
2544.93	-63.57	H	-61.78	3.15	10.67	-54.26	-13.00	-41.26



Product	Wireless Infrared Scouting Camera		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 4: CDMA 2000 1XEVD0 Rel-0 BC1 Link		
Date of Test	2015/03/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 25 (1851.25MHz)								
3702.50	-63.08	V	-60.11	3.83	12.69	-51.25	-13.00	-38.25
5553.75	-66.22	V	-58.28	4.82	13.14	-49.96	-13.00	-36.96
3702.50	-62.34	H	-59.97	3.83	12.69	-51.11	-13.00	-38.11
5553.75	-65.51	H	-57.67	4.82	13.14	-49.35	-13.00	-36.35
Middle Channel 600 (1880MHz)								
3760.00	-63.96	V	-61.04	3.73	12.72	-52.05	-13.00	-39.05
5640.00	-64.50	V	-56.62	4.92	13.13	-48.41	-13.00	-35.41
3760.00	-62.80	H	-59.82	3.73	12.72	-50.83	-13.00	-37.83
5640.00	-65.40	H	-57.07	4.92	13.13	-48.86	-13.00	-35.86
High Channel 1175 (1908.75MHz)								
3817.50	-62.77	V	-61.05	3.98	12.73	-52.30	-13.00	-39.30
5726.25	-65.23	V	-59.23	4.86	13.11	-50.98	-13.00	-37.98
3817.50	-63.32	H	-60.40	3.98	12.73	-51.65	-13.00	-38.65
5726.25	-66.34	H	-58.00	4.86	13.11	-49.75	-13.00	-36.75



Product	Wireless Infrared Scouting Camera		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 5: CDMA 2000 1XEVD0 Rel-A BC0 Link		
Date of Test	2015/03/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBd)	ERP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 1013 (824.70MHz)								
1649.40	-60.05	V	-62.65	2.50	9.78	-55.37	-13.00	-42.37
2474.10	-64.10	V	-63.22	3.12	10.49	-55.85	-13.00	-42.85
1649.40	-58.59	H	-61.16	2.50	9.78	-53.88	-13.00	-40.88
2474.10	-64.00	H	-62.94	3.12	10.49	-55.57	-13.00	-42.57
Middle Channel 384 (836.52MHz)								
1672.64	-60.57	V	-63.24	2.51	9.94	-55.81	-13.00	-42.81
2508.96	-61.93	V	-61.30	3.18	10.61	-53.87	-13.00	-40.87
1672.64	-57.64	H	-60.06	2.51	9.94	-52.63	-13.00	-39.63
2508.96	-63.19	H	-62.16	3.18	10.61	-54.73	-13.00	-41.73
High Channel 777 (848.31MHz)								
1696.62	-61.84	V	-64.63	2.53	10.10	-57.06	-13.00	-44.06
2544.93	-63.66	V	-62.13	3.15	10.67	-54.61	-13.00	-41.61
1696.62	-59.51	H	-61.57	2.53	10.10	-54.00	-13.00	-41.00
2544.93	-63.07	H	-61.28	3.15	10.67	-53.76	-13.00	-40.76



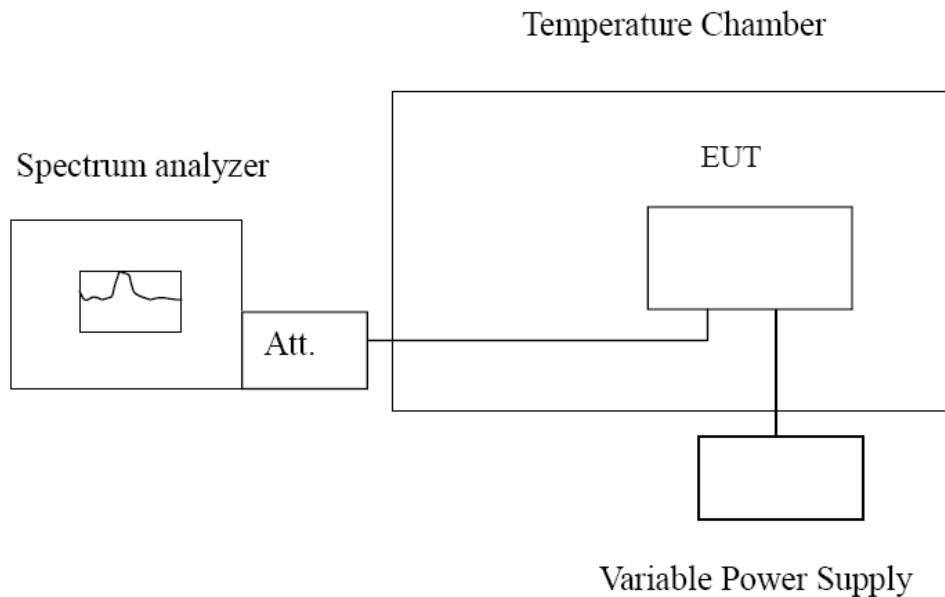
Product	Wireless Infrared Scouting Camera		
Test Item	Radiated Spurious Emission		
Test Mode	Mode 6: CDMA 2000 1XEVD0 Rel-A BC1 Link		
Date of Test	2015/03/09	Test Site	AC-5

Frequency (MHz)	SA Reading (dBm)	Ant.Pol. (H/V)	SG Reading (dBm)	Cable Loss (dB)	Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
Low Channel 25 (1851.25MHz)								
3702.50	-63.68	V	-60.64	3.83	12.69	-51.78	-13.00	-38.78
5553.75	-64.86	V	-57.39	4.82	13.14	-49.07	-13.00	-36.07
3702.50	-64.18	H	-60.54	3.83	12.69	-51.68	-13.00	-38.68
5553.75	-65.72	H	-58.05	4.82	13.14	-49.73	-13.00	-36.73
Middle Channel 600 (1880MHz)								
3760.00	-64.17	V	-61.10	3.73	12.72	-52.11	-13.00	-39.11
5640.00	-65.01	V	-57.65	4.92	13.13	-49.44	-13.00	-36.44
3760.00	-63.29	H	-60.36	3.73	12.72	-51.37	-13.00	-38.37
5640.00	-65.02	H	-57.17	4.92	13.13	-48.96	-13.00	-35.96
High Channel 1175 (1908.75MHz)								
3817.50	-62.59	V	-59.15	3.98	12.73	-50.40	-13.00	-37.40
5726.25	-64.29	V	-56.73	4.86	13.11	-48.48	-13.00	-35.48
3817.50	-64.03	H	-60.61	3.98	12.73	-51.86	-13.00	-38.86
5726.25	-65.20	H	-56.95	4.86	13.11	-48.70	-13.00	-35.70



4.5. Frequency Stability under Temperature & Voltage Variations

TEST CONFIGURATION



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603C

Frequency Stability Under Temperature Variations:

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20°C operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.

Frequency Stability Under Voltage Variations:

Set chamber temperature to 20°C. Use a variable AC power supply / DC power source to power the EUT and set the voltage to rated voltage. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency.

Reduce the input voltage to specify extreme voltage variation ($\pm 15\%$) and endpoint, record the maximum frequency change.

LIMIT

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Limit < ± 2.5 ppm

TEST RESULTS

Product	Wireless Infrared Scouting Camera		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 1: CDMA 2000 1X BC0 Link		
Date of Test	2015/03/09	Test Site	TR-7

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.52	43	± 2091.3
-20	836.52	35	± 2091.3
-10	836.52	23	± 2091.3
0	836.52	-32	± 2091.3
10	836.52	-24	± 2091.3
20	836.52	16	± 2091.3
30	836.52	16	± 2091.3
40	836.52	53	± 2091.3
50	836.52	-62	± 2091.3

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
6.600	836.52	20	± 2091.3
6.000	836.52	22	± 2091.3
5.400	836.52	-35	± 2091.3

Product	Wireless Infrared Scouting Camera		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 2: CDMA 2000 1X BC1 Link		
Date of Test	2015/03/09	Test Site	TR-7

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	1880	43	± 4700
-20	1880	30	± 4700
-10	1880	-28	± 4700
0	1880	29	± 4700
10	1880	-16	± 4700
20	1880	25	± 4700
30	1880	-35	± 4700
40	1880	-40	± 4700
50	1880	-56	± 4700

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
6.600	1880	16	± 4700
6.000	1880	25	± 4700
5.400	1880	43	± 4700

Product	Wireless Infrared Scouting Camera		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 3: CDMA 2000 1XEVD0 Rel-0 BC0 Link		
Date of Test	2015/03/09	Test Site	TR-7

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.52	38	± 2091.3
-20	836.52	-12	± 2091.3
-10	836.52	30	± 2091.3
0	836.52	27	± 2091.3
10	836.52	25	± 2091.3
20	836.52	55	± 2091.3
30	836.52	-60	± 2091.3
40	836.52	38	± 2091.3
50	836.52	-43	± 2091.3

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
6.600	836.52	-22	± 2091.3
6.000	836.52	16	± 2091.3
5.400	836.52	38	± 2091.3

Product	Wireless Infrared Scouting Camera		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 4: CDMA 2000 1XEVD0 Rel-0 BC1 Link		
Date of Test	2015/03/09	Test Site	TR-7

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	1880	13	± 4700
-20	1880	25	± 4700
-10	1880	17	± 4700
0	1880	42	± 4700
10	1880	-32	± 4700
20	1880	-20	± 4700
30	1880	-56	± 4700
40	1880	-35	± 4700
50	1880	20	± 4700

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
6.600	1880	30	± 4700
6.000	1880	17	± 4700
5.400	1880	14	± 4700

Product	Wireless Infrared Scouting Camera		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 5: CDMA 2000 1XEVD0 Rel-A BC0 Link		
Date of Test	2015/03/09	Test Site	TR-7

Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	836.52	-35	± 2091.3
-20	836.52	24	± 2091.3
-10	836.52	10	± 2091.3
0	836.52	-50	± 2091.3
10	836.52	25	± 2091.3
20	836.52	-27	± 2091.3
30	836.52	-20	± 2091.3
40	836.52	-15	± 2091.3
50	836.52	-66	± 2091.3

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
6.600	836.52	57	± 2091.3
6.000	836.52	-53	± 2091.3
5.400	836.52	-42	± 2091.3

Product	Wireless Infrared Scouting Camera		
Test Item	Frequency Stability Under Temperature & Voltage Variations		
Test Mode	Mode 6: CDMA 2000 1XEVD0 Rel-A BC1 Link		
Date of Test	2015/03/09	Test Site	TR-7

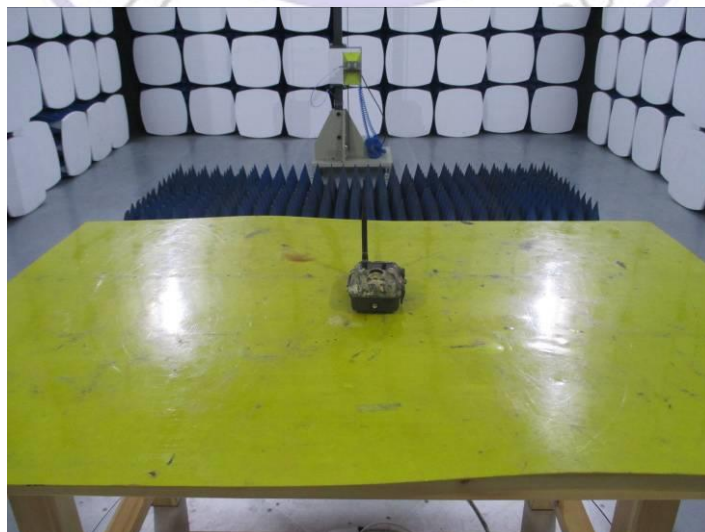
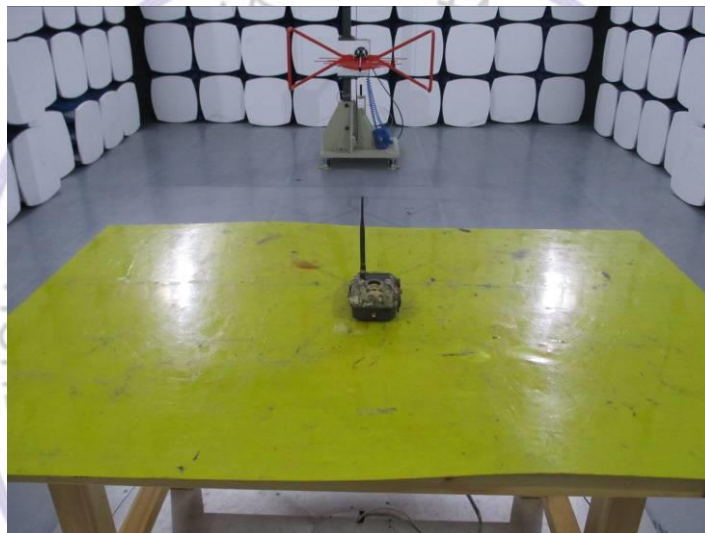
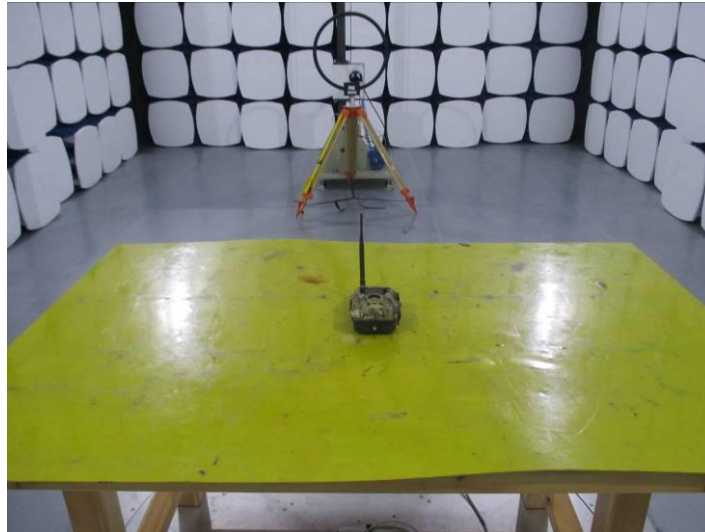
Frequency Stability under Temperature

Temperature Interval (°C)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
-30	1880	35	± 4700
-20	1880	-22	± 4700
-10	1880	32	± 4700
0	1880	25	± 4700
10	1880	37	± 4700
20	1880	-42	± 4700
30	1880	29	± 4700
40	1880	-26	± 4700
50	1880	-22	± 4700

Frequency Stability under Voltage

DC Voltage (V)	Test Frequency (MHz)	Deviation (Hz)	Limit (Hz)
6.600	1880	-28	± 4700
6.000	1880	-25	± 4700
5.400	1880	-45	± 4700

5. Test Setup Photos of the EUT



6. External and Internal Photos of the EUT

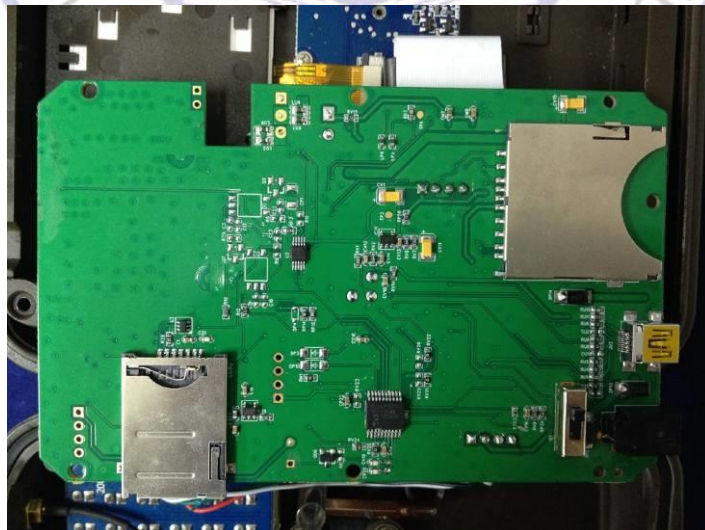
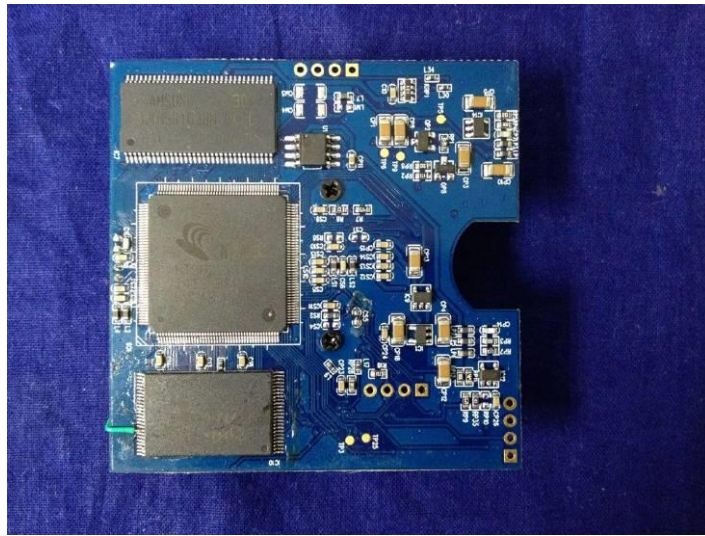
External Photos of EUT

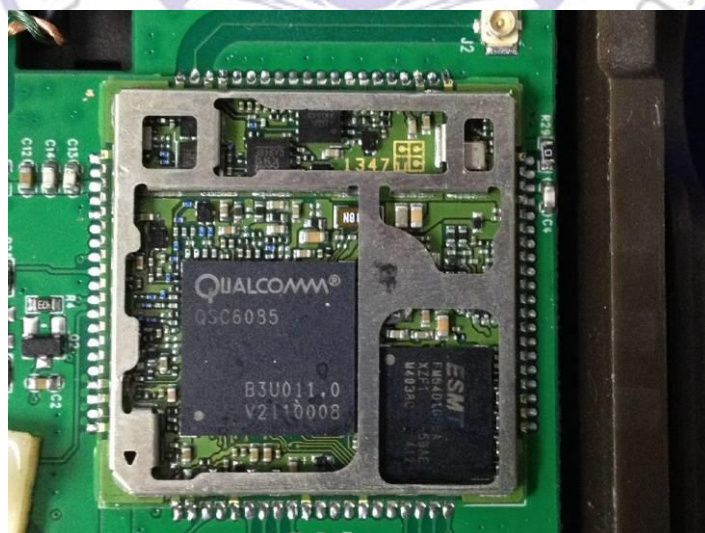






Internal Photos of EUT





.....End of Report.....