



FCC TEST REPORT (15.407)

REPORT NO.: RF970825L11-1

MODEL NO.: Goldcrest

RECEIVED: Aug. 25, 2008

TESTED: Sep. 22 ~ Oct. 01, 2008

ISSUED: Oct. 24, 2008

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1. CERTIFICATION

PRODUCT: PCI Express Wireless Local Area Network (WLAN)
802.11 a/b/g/n Card

MODEL: Goldcrest

BRAND: Gemtek

APPLICANT: Gemtek Technology Co., Ltd.

TEST SAMPLE: ENGINEERING SAMPLE

TESTED: Sep. 22 ~ Oct. 01, 2008

STANDARDS: FCC Part 15, Subpart E (Section 15.407)
ANSI C63.4-2003

The above equipment (Model: Goldcrest) has been tested by **Advance Data Technology Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Andrea Hsia , **DATE:** Oct. 24, 2008
Andrea Hsia / Specialist

TECHNICAL
ACCEPTANCE : Long Chen , **DATE:** Oct. 24, 2008
Responsible for RF Long Chen / Senior Engineer

APPROVED BY : Gary Chang , **DATE:** Oct. 24, 2008
Gary Chang / Assistant Manager

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.407(b)(5)	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -3.68dB at 0.150MHz
15.407(b)(1/2/3) (b)(5)	Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz	PASS	Meet the requirement of limit. Minimum passing margin is -1.00dB at 5350.00MHz
15.407(a)(1/2/3)	Peak Transmit Power	PASS	Meet the requirement of limit.
15.407(a)(6)	Peak Power Excursion	PASS	Meet the requirement of limit.
15.407(a)(1/2/3)	Peak Power Spectral Density	PASS	Meet the requirement of limit.
15.407(g)	Frequency Stability	PASS	Meet the requirement of limit.

2.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	9kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	PCI Express Wireless Local Area Network (WLAN) 802.11 a/b/g/n Card
MODEL NO.	Goldcrest
FCC ID	MXF-P970813N
POWER SUPPLY	5Vdc from host equipment
MODULATION TYPE	CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM
MODULATION TECHNOLOGY	DSSS, OFDM
TRANSFER RATE	802.11b: 11.0/ 5.5/ 2.0/ 1.0Mbps 802.11g: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps Draft 802.11n: up to 300.0Mbps
FREQUENCY RANGE	2.4GHz: 2400.0 ~ 2483.5MHz 5.0GHz: 5150.0 ~ 5350.0MHz, 5470.0 ~ 5725.0MHz, 5725 ~ 5850MHz
NUMBER OF CHANNEL	2.4GHz: 11 for 802.11b, 802.11g, draft 802.11n (20MHz) 7 for draft 802.11n (40MHz) 5.0GHz: 5150 ~ 5350MHz: 8 for 802.11a, draft 802.11n (20MHz) 4 for draft 802.11n (40MHz) 5470 ~ 5725MHz: 11 for 802.11a, draft 802.11n (20MHz) 5 for draft 802.11n (40MHz) 5725 ~ 5850MHz: 5 for 802.11a, draft 802.11n (20MHz) 2 for draft 802.11n (40MHz)
OUTPUT POWER	362.437mW for 2400.0 ~ 2483.5MHz 32.324mW for 5150.0 ~ 5350.0MHz 35.771mW for 5470.0 ~ 5725.0MHz 406.472mW for 5725.0 ~ 5850.0MHz
ANTENNA TYPE	Refer to note as below
DATA CABLE	NA
I/O PORTS	NA
ACCESSORY DEVICES	NA

NOTE:

1. The EUT is a PCI Express Wireless Local Area Network (WLAN) 802.11 a/b/g/n Card. The functions of EUT listed as below:

	TEST STANDARD	REFERENCE REPORT
WLAN 802.11b/g, draft 802.11n	FCC Part 15, Subpart C (Section 15.247)	RF970825L11
WLAN 802.11a, draft 802.11n (5725~5850 MHz)		
WLAN 802.11a, draft 802.11n (5150~ 5350MHz, 5470 ~ 5725MHz)	FCC Part 15, Subpart E (Section 15.407)	RF970825L11-1
WLAN 802.11a, draft 802.11n (5250~ 5350MHz, 5470 ~ 5725MHz) (For DFS report)	FCC Part 15, Subpart E (Section 15.407)	RF970825L11-2

2. The frequency bands used in this EUT are listed as follows:

Frequency Band (MHz)	2400~2483.5	5150~5350	5470 ~ 5725	5725~5850
802.11b	√	-	-	-
802.11g	√	-	-	-
802.11a	-	√	√	√
Draft 802.11n (20MHz)	√	√	√	√
Draft 802.11n (40MHz)	√	√	√	√

3. The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers.

MODULATION MODE	TX FUNCTION
802.11b	1TX
802.11g	1TX
802.11a	1TX
Draft 802.11n (20MHz)	2TX
Draft 802.11n (40MHz)	2TX

4. The following antennas were provided to this EUT.

Item	Antenna Type	Gain (dBi)		GAIN (dBi) (with cable loss)		Antenna connector
		2.4G	5.0G	2.4G	5.0G	
1	Dipole	1.26	1.58	-	-	R-SMA
2	PIFA (model: Neptune) (with electric conduction foam)	0.14	-0.26	-	-	UFL
3	PIFA (model: Virtus) (without electric conduction foam)	1.65	4.33	-	-	UFL
4	Dipole + RF cable	-	-	0.56	0.28	UFL

**For Item 2 & 3, only higher antenna gain was chosen for final test and presented in the test report

5. The following crystals were provided to this EUT.

ITEM	CRYSTAL	REMARK
1	170-100-0089R	X'TAL (R) 40MHz +/-5ppm 12pF3.2*2.5*0.65mm SMD 0~+85dCFL4000011B ECERA
2	170-100-0079R	X'TAL (HF) 40MHz +/-10ppm 12pF3.2*2.5*0.7mm SMD 0~+85dC7M40000005 TXC

**After pre-tested found item 2 was the worst, therefore we chosen for final test and presented in the test report.

6. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 DESCRIPTION OF TEST MODES

Operated in 5150 ~ 5350MHz

8 channels are provided for 802.11a, draft 802.11n (20MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
36	5180 MHz	52	5260 MHz
40	5200 MHz	56	5280 MHz
44	5220 MHz	60	5300 MHz
48	5240 MHz	64	5320 MHz

4 channels are provided for draft 802.11n (40MHz):

CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
38	5190 MHz	54	5270 MHz
46	5230 MHz	62	5310 MHz

Operated in 5470 ~ 5725MHz

11 channels are provided for 802.11a, draft 802.11n (20MHz):

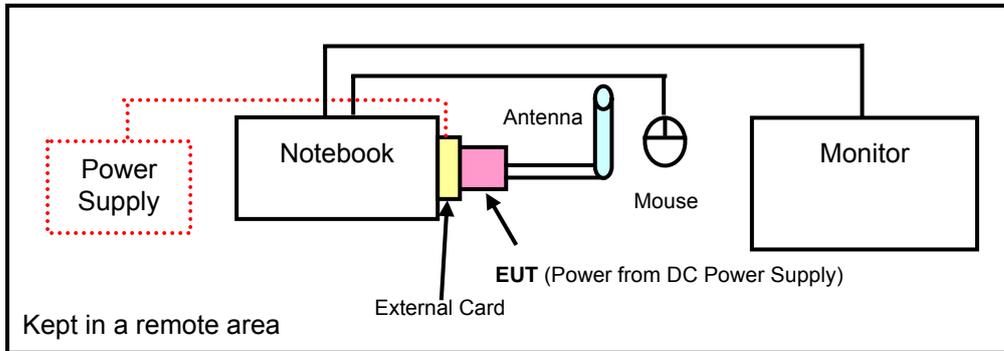
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
100	5500 MHz	124	5620 MHz
104	5520 MHz	128	5640 MHz
108	5540 MHz	132	5660 MHz
112	5560 MHz	136	5680 MHz
116	5580 MHz	140	5700 MHz
120	5600 MHz		

5 channels are provided for draft 802.11n (40MHz):

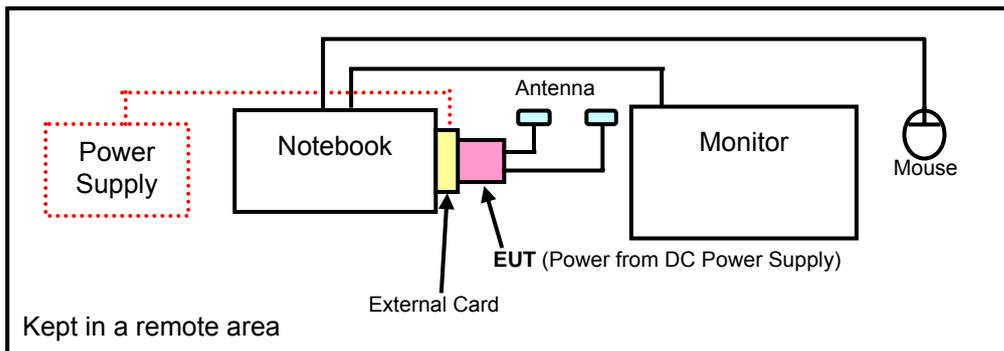
CHANNEL	FREQUENCY	CHANNEL	FREQUENCY
102	5510 MHz	126	5630 MHz
110	5550 MHz	134	5670 MHz
118	5690 MHz		

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

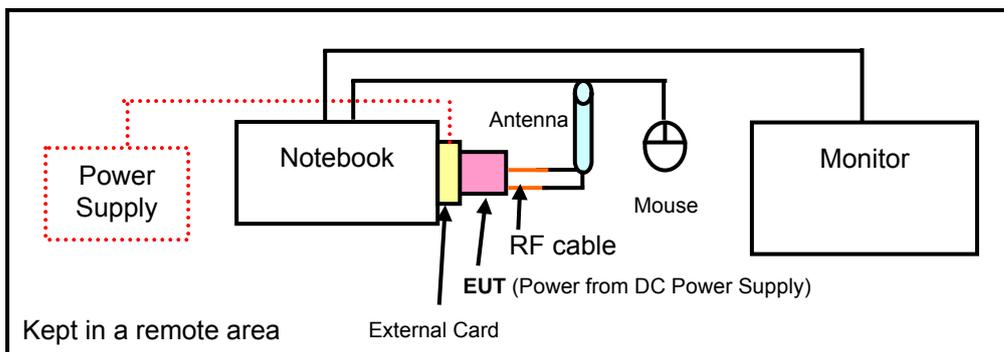
TEST MODE A



TEST MODE B



TEST MODE C



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE \geq 1G	RE<1G	PLC	APCM	
A	√	√	√	√	Antenna item 1
B	√	√	√	-	Antenna item 3
C	-	√	-	-	Antenna item 4

Where **RE \geq 1G**: Radiated Emission above 1GHz **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission **APCM**: Antenna Port Conducted Measurement

NOTE: "-" means no effect.

RADIATED EMISSION TEST (ABOVE 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5350	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0
B	802.11a		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	7.2
B	Draft 802.11n (20MHz)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)		38 to 62	38, 46, 54, 62	OFDM	BPSK	15.0
B	Draft 802.11n (40MHz)		38 to 62	38, 46, 54, 62	OFDM	BPSK	15.0
A	802.11a	5470-5725	100 to 140	100, 120, 140	OFDM	BPSK	6.0
B	802.11a		100 to 140	100, 120, 140	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)		100 to 140	100, 120, 140	OFDM	BPSK	7.2
B	Draft 802.11n (20MHz)		100 to 140	100, 120, 140	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)		102 to 134	102, 118, 134	OFDM	BPSK	15.0
B	Draft 802.11n (40MHz)		102 to 134	102, 118, 134	OFDM	BPSK	15.0

RADIATED EMISSION TEST (BELOW 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	Draft 802.11n (20MHz)	5150-5350	36 to 64	60	OFDM	BPSK	7.2
B	Draft 802.11n (20MHz)		36 to 64	60	OFDM	BPSK	7.2
C	Draft 802.11n (20MHz)		36 to 64	60	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)	5470-5725	102 to 134	118	OFDM	BPSK	15.0
B	Draft 802.11n (40MHz)		102 to 134	118	OFDM	BPSK	15.0
C	Draft 802.11n (40MHz)		102 to 134	118	OFDM	BPSK	15.0

POWER LINE CONDUCTED EMISSION TEST:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	Draft 802.11n (20MHz)	5150-5350	36 to 64	60	OFDM	BPSK	7.2
B	Draft 802.11n (20MHz)		36 to 64	60	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)	5470-5725	100 to 140	118	OFDM	BPSK	15.0
B	Draft 802.11n (40MHz)		100 to 140	118	OFDM	BPSK	15.0

BANDEDGE MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5350	36 to 64	36, 48, 52, 64	OFDM	BPSK	6.0
B	802.11a		36 to 64	36, 48, 52, 64	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)		36 to 64	36, 48, 52, 64	OFDM	BPSK	7.2
B	Draft 802.11n (20MHz)		36 to 64	36, 48, 52, 64	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)		38 to 62	38, 46, 54, 62	OFDM	BPSK	15.0
B	Draft 802.11n (40MHz)		38 to 62	38, 46, 54, 62	OFDM	BPSK	15.0
A	802.11a	5470-5725	100 to 140	100, 140	OFDM	BPSK	6.0
B	802.11a		100 to 140	100, 140	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)		100 to 140	100, 140	OFDM	BPSK	7.2
B	Draft 802.11n (20MHz)		100 to 140	100, 140	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)		102 to 134	102, 134	OFDM	BPSK	15.0
B	Draft 802.11n (40MHz)		102 to 134	102, 134	OFDM	BPSK	15.0

ANTENNA PORT CONDUCTED MEASUREMENT:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	MODE	FREQ. BAND (MHz)	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	DATA RATE (Mbps)
A	802.11a	5150-5350	36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)		36 to 64	36, 40, 48, 52, 60, 64	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)		38 to 62	38, 46, 54, 62	OFDM	BPSK	15.0
A	802.11a	5470-5725	100 to 140	100, 120, 140	OFDM	BPSK	6.0
A	Draft 802.11n (20MHz)		100 to 140	100, 120, 140	OFDM	BPSK	7.2
A	Draft 802.11n (40MHz)		102 to 134	102, 118, 134	OFDM	BPSK	15.0



3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart E (15.407)

ANSI C63.4-2003

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.

3.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D830	4C53R1S	E2K4965AGNM
2	LCD MONITOR	ACER	AL1511 bm	ET.L1408.0433480 0145PK01	NA
3	MOUSE	Logitech	M-S43	LZE00703157	DZL211106
4	POWER SUPPLY	TOP WARD	6306A	713585	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8 m D-Sub shielded cable
3	1.8 m foil shielded wire, terminated with PS2 connector via drain wire, w/o core.
4	NA

NOTE: All power cords of the above support units are non shielded (1.8m).

4. TEST TYPES AND RESULTS

4.1 RADIATED EMISSION MEASUREMENT

4.1.1 LIMITS OF RADIATED EMISSION MEASUREMENT

Emissions radiated outside of the specified bands, shall be according to the general radiated limits in 15.209 as following:

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

Frequencies (MHz)	EIRP Limit (dBm)	Equivalent Field Strength at 3m (dBμV/m) *note 3
5150~5250	-27	68.3
5250~5350	-27	68.3
5725~5825	-27 *note 1	68.3
	-17 *note 2	78.3

NOTE:

1. For frequencies 10MHz or greater above or below the band edge.
2. All emissions within the frequency range from the band edge to 10MHz above or below the band edge.
3. The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength $E = \frac{1000000\sqrt{30P}}{3}$ μV/m, where P is the eirp (Watts)



4.1.3 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jun. 30, 2008	Jun. 29, 2009
Spectrum Analyzer Agilent	FSP	100041	Apr. 22, 2008	Apr. 21, 2009
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May, 02, 2008	May, 01, 2009
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 24, 2008	Jun. 23, 2009
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 25, 2007	Dec. 24, 2008
Preamplifier Agilent	8447D	2944A10633	Oct. 29, 2007	Oct. 28, 2008
Preamplifier Agilent	8449B	3008A01964	Oct. 24, 2007	Oct. 23, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283402/4	Dec. 07, 2007	Dec. 06, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	251644/4	Dec. 07, 2007	Dec. 06, 2008
Software ADT.	ADT_Radiated_V7.6	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 3.
 3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
 4. The FCC Site Registration No. is 988962.
 5. The IC Site Registration No. is IC3789B-3.

4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

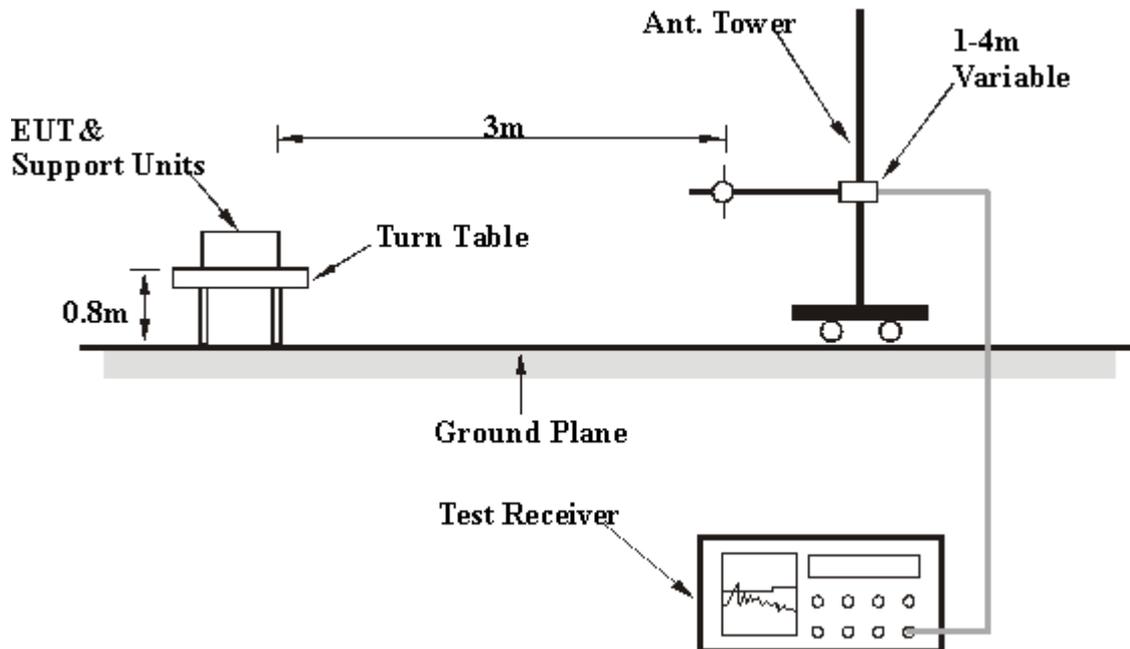
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.5 DEVIATION FROM TEST STANDARD

No deviation

4.1.6 TEST SETUP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.7 EUT OPERATING CONDITION

- a. Connected the EUT into the notebook system via external card and placed on a testing table
- b. The EUT ran a test program (provided by manufacturer) to enable all functions under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

4.1.8 TEST RESULTS

802.11a OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	58.24 PK	74.00	-15.76	1.32 H	141	19.15	39.09
2	5150.00	39.81 AV	54.00	-14.19	1.32 H	141	0.72	39.09
3	*5180.00	101.62 PK			1.32 H	141	62.44	39.18
4	*5180.00	90.63 AV			1.32 H	141	51.45	39.18
5	#10360.00	59.50 PK	68.30	-8.80	1.02 H	1	10.03	49.47
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.58 PK	74.00	-5.42	1.30 V	244	29.49	39.09
2	5150.00	47.33 AV	54.00	-6.67	1.30 V	244	8.24	39.09
3	*5180.00	111.97 PK			1.40 V	243	72.79	39.18
4	*5180.00	101.38 AV			1.40 V	243	62.20	39.18
5	#10360.00	59.84 PK	68.30	-8.46	1.00 V	360	10.37	49.47

REMARKS: 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).

2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).

3. The other emission levels were very low against the limit.

4. Margin value = Emission level – Limit value.

5. “ * “: Fundamental frequency.

6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	101.97 PK			1.54 H	0	62.73	39.24
2	*5200.00	91.54 AV			1.54 H	0	52.30	39.24
3	#10400.00	59.51 PK	68.30	-8.79	1.11 H	1	9.91	49.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.58 PK			1.02 V	213	73.34	39.24
2	*5200.00	101.53 AV			1.02 V	213	62.29	39.24
3	#10400.00	60.01 PK	68.30	-8.29	1.02 V	360	10.41	49.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	101.62 PK			1.29 H	153	62.31	39.31
2	*5240.00	90.84 AV			1.29 H	153	51.53	39.31
3	#10480.00	59.41 PK	68.30	-8.89	1.03 H	360	9.68	49.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	111.86 PK			1.35 V	255	72.55	39.31
2	*5240.00	101.41 AV			1.35 V	255	62.10	39.31
3	#10480.00	59.74 PK	68.30	-8.56	1.00 V	355	10.01	49.73

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	101.82 PK			1.29 H	131	62.47	39.35
2	*5260.00	90.74 AV			1.29 H	131	51.39	39.35
3	#10520.00	59.36 PK	68.30	-8.94	1.00 H	355	9.60	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	111.74 PK			1.23 V	269	72.39	39.35
2	*5260.00	101.16 AV			1.23 V	269	61.81	39.35
3	#10520.00	60.14 PK	68.30	-8.16	1.03 V	333	10.38	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	101.81 PK			1.29 H	152	62.39	39.42
2	*5300.00	90.87 AV			1.29 H	152	51.45	39.42
3	10600.00	56.98 PK	74.00	-17.02	1.04 H	360	7.22	49.76
4	10600.00	46.51 AV	54.00	-7.49	1.04 H	360	-3.25	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	112.52 PK			1.00 V	213	73.10	39.42
2	*5300.00	101.52 AV			1.00 V	213	62.10	39.42
3	10600.00	60.14 PK	74.00	-13.86	1.00 V	355	10.38	49.76
4	10600.00	46.89 AV	54.00	-7.11	1.00 V	355	-2.87	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	101.30 PK			1.18 H	359	61.88	39.42
2	*5320.00	90.14 AV			1.18 H	359	50.72	39.42
3	5350.00	51.20 PK	74.00	-22.80	1.18 H	360	11.78	39.42
4	5350.00	38.83 AV	54.00	-15.17	1.18 H	360	-0.59	39.42
5	10640.00	59.87 PK	74.00	-14.13	1.10 H	360	10.03	49.84
6	10640.00	46.81 AV	54.00	-7.19	1.10 H	360	-3.03	49.84
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.56 PK			1.00 V	208	73.14	39.42
2	*5320.00	101.77 AV			1.00 V	208	62.35	39.42
3	5350.00	69.46 PK	74.00	-4.54	1.12 V	208	30.04	39.42
4	5350.00	49.02 AV	54.00	-4.98	1.12 V	208	9.60	39.42
5	10640.00	60.34 PK	74.00	-13.66	1.00 V	10	10.50	49.84
6	10640.00	47.10 AV	54.00	-6.90	1.00 V	10	-2.74	49.84

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	51.51 PK	74.00	-22.49	1.03 H	11	11.99	39.52
2	5460.00	39.46 AV	54.00	-14.54	1.03 H	11	-0.06	39.52
3	#5470.00	57.33 PK	68.30	-10.97	1.03 H	11	17.79	39.54
5	*5500.00	101.78 PK			1.03 H	11	62.19	39.59
6	*5500.00	94.10 AV			1.03 H	11	54.51	39.59
7	11000.00	60.81 PK	74.00	-13.19	1.02 H	360	10.58	50.23
8	11000.00	47.65 AV	54.00	-6.35	1.02 H	360	-2.58	50.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	58.52 PK	74.00	-15.48	1.20 V	214	19.00	39.52
2	5460.00	46.17 AV	54.00	-7.83	1.20 V	214	6.65	39.52
3	#5470.00	66.57 PK	68.30	-1.73	1.20 V	214	27.03	39.54
5	*5500.00	112.26 PK			1.20 V	215	72.67	39.59
6	*5500.00	101.91 AV			1.20 V	215	62.32	39.59
7	11000.00	60.80 PK	74.00	-13.20	1.08 V	0	10.57	50.23
8	11000.00	47.68 AV	54.00	-6.32	1.08 V	0	-2.55	50.23

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	101.41 PK			1.06 H	24	61.69	39.72
2	*5600.00	94.00 AV			1.06 H	24	54.28	39.72
3	11200.00	60.81 PK	74.00	-13.19	1.20 H	360	10.67	50.14
4	11200.00	47.75 AV	54.00	-6.25	1.20 H	360	-2.39	50.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	112.19 PK			1.10 V	234	72.47	39.72
2	*5600.00	102.06 AV			1.10 V	234	62.34	39.72
3	11200.00	60.70 PK	74.00	-13.30	1.29 V	10	10.56	50.14
4	11200.00	47.75 AV	54.00	-6.25	1.29 V	10	-2.39	50.14

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	100.14 PK			1.38 H	58	60.34	39.80
2	*5700.00	89.63 AV			1.38 H	58	49.83	39.80
3	#5725.00	56.71 PK	68.30	-11.59	1.38 H	58	16.87	39.84
5	11400.00	60.45 PK	74.00	-13.55	1.31 H	10	10.43	50.02
6	11400.00	47.37 AV	54.00	-6.63	1.31 H	10	-2.65	50.02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	111.42 PK			1.28 V	204	71.62	39.80
2	*5700.00	100.77 AV			1.28 V	204	60.97	39.80
3	#5725.00	67.15 PK	68.30	-1.15	1.28 V	204	27.31	39.84
5	11400.00	60.33 PK	74.00	-13.67	1.28 V	10	10.31	50.02
6	11400.00	47.64 AV	54.00	-6.36	1.28 V	10	-2.38	50.02

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	71.60 PK	74.00	-2.40	1.12 H	335	32.51	39.09
2	5150.00	51.96 AV	54.00	-2.04	1.12 H	335	12.87	39.09
3	*5180.00	113.11 PK			1.21 H	334	73.93	39.18
4	*5180.00	102.91 AV			1.21 H	334	63.73	39.18
5	#10360.00	60.17 PK	68.30	-8.13	1.00 H	360	10.70	49.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	65.14 PK	74.00	-8.86	1.01 V	107	26.05	39.09
2	5150.00	45.69 AV	54.00	-8.31	1.01 V	107	6.60	39.09
3	*5180.00	107.14 PK			1.01 V	107	67.96	39.18
4	*5180.00	96.52 AV			1.01 V	107	57.34	39.18
5	#10360.00	59.85 PK	68.30	-8.45	1.00 V	0	10.38	49.47

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	113.06 PK			1.21 H	339	73.82	39.24
2	*5200.00	101.31 AV			1.21 H	339	62.07	39.24
3	#10400.00	59.63 PK	68.30	-8.67	1.20 H	360	10.03	49.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	107.78 PK			1.07 V	351	68.54	39.24
2	*5200.00	97.24 AV			1.07 V	351	58.00	39.24
3	#10400.00	60.41 PK	68.30	-7.89	1.07 V	100	10.81	49.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.00 PK			1.19 H	330	73.69	39.31
2	*5240.00	102.46 AV			1.19 H	330	63.15	39.31
3	#10480.00	59.94 PK	68.30	-8.36	1.07 H	10	10.21	49.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.32 PK			1.00 V	110	68.01	39.31
2	*5240.00	96.74 AV			1.00 V	110	57.43	39.31
3	#10480.00	59.62 PK	68.30	-8.68	1.07 V	0	9.89	49.73

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	112.97 PK			1.19 H	311	73.62	39.35
2	*5260.00	102.86 AV			1.19 H	311	63.51	39.35
3	#10520.00	59.92 PK	68.30	-8.38	1.07 H	360	10.16	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	107.39 PK			1.04 V	99	68.04	39.35
2	*5260.00	96.77 AV			1.04 V	99	57.42	39.35
3	#10520.00	59.82 PK	68.30	-8.48	1.07 V	360	10.06	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.34 PK			1.19 H	330	73.92	39.42
2	*5300.00	103.05 AV			1.19 H	330	63.63	39.42
3	10600.00	60.13 PK	74.00	-13.87	1.00 H	100	10.37	49.76
4	10600.00	47.44 AV	54.00	-6.56	1.00 H	100	-2.32	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.32 PK			1.10 V	100	67.90	39.42
2	*5300.00	96.75 AV			1.10 V	100	57.33	39.42
3	10600.00	60.13 PK	74.00	-13.87	1.10 V	330	10.37	49.76
4	10600.00	47.05 AV	54.00	-6.95	1.10 V	330	-2.71	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.96 PK			1.08 H	338	73.54	39.42
2	*5320.00	102.23 AV			1.08 H	338	62.81	39.42
3	5350.00	73.00 PK	74.00	-1.00	1.07 H	341	33.58	39.42
4	5350.00	51.98 AV	54.00	-2.02	1.07 H	341	12.56	39.42
5	10640.00	59.61 PK	74.00	-14.39	1.07 H	100	9.77	49.84
6	10640.00	46.56 AV	54.00	-7.44	1.07 H	100	-3.28	49.84
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	108.58 PK			1.15 V	355	69.16	39.42
2	*5320.00	98.04 AV			1.15 V	355	58.62	39.42
3	5350.00	65.47 PK	74.00	-8.53	1.15 V	355	26.05	39.42
4	5350.00	46.98 AV	54.00	-7.02	1.15 V	355	7.56	39.42
5	10640.00	60.18 PK	74.00	-13.82	1.00 V	360	10.34	49.84
6	10640.00	47.12 AV	54.00	-6.88	1.00 V	360	-2.72	49.84

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.95 PK	74.00	-17.05	1.14 H	321	17.43	39.52
2	5460.00	42.87 AV	54.00	-11.13	1.14 H	321	3.35	39.52
3	#5470.00	66.90 PK	68.30	-1.40	1.14 H	321	27.36	39.54
5	*5500.00	112.31 PK			1.14 H	321	72.72	39.59
6	*5500.00	101.04 AV			1.14 H	321	61.45	39.59
7	11000.00	60.92 PK	74.00	-13.08	1.10 H	100	10.69	50.23
8	11000.00	48.75 AV	54.00	-5.25	1.10 H	100	-1.48	50.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.22 PK	74.00	-17.78	1.01 V	351	16.70	39.52
2	5460.00	42.31 AV	54.00	-11.69	1.01 V	351	2.79	39.52
3	#5470.00	66.38 PK	68.30	-1.92	1.01 V	351	26.84	39.54
5	*5500.00	108.93 PK			1.01 V	351	69.34	39.59
6	*5500.00	98.45 AV			1.01 V	351	58.86	39.59
7	11000.00	60.75 PK	74.00	-13.25	1.01 V	360	10.52	50.23
8	11000.00	48.74 AV	54.00	-5.26	1.01 V	360	-1.49	50.23

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	111.93 PK			1.13 H	352	72.21	39.72
2	*5600.00	100.92 AV			1.13 H	352	61.20	39.72
3	11200.00	61.30 PK	74.00	-12.70	1.00 H	126	11.16	50.14
4	11200.00	48.94 AV	54.00	-5.06	1.00 H	126	-1.20	50.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	108.34 PK			1.00 V	2	68.62	39.72
2	*5600.00	97.96 AV			1.00 V	2	58.24	39.72
3	11200.00	61.56 PK	74.00	-12.44	1.05 V	217	11.42	50.14
4	11200.00	48.64 AV	54.00	-5.36	1.05 V	217	-1.50	50.14

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.59 PK			1.21 H	354	70.79	39.80
2	*5700.00	99.68 AV			1.21 H	354	59.88	39.80
3	#5725.00	67.12 PK	68.30	-1.18	1.21 H	354	27.28	39.84
5	11400.00	61.87 PK	74.00	-12.13	1.19 H	5	11.85	50.02
6	11400.00	49.08 AV	54.00	-4.92	1.19 H	5	-0.94	50.02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	107.02 PK			1.00 V	351	67.22	39.80
2	*5700.00	96.43 AV			1.00 V	351	56.63	39.80
3	#5725.00	65.89 PK	68.30	-2.41	1.00 V	351	26.05	39.84
5	11400.00	62.12 PK	74.00	-11.88	1.19 V	345	12.10	50.02
6	11400.00	49.36 AV	54.00	-4.64	1.19 V	345	-0.66	50.02

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	49.53 PK	74.00	-24.47	1.12 H	5	10.44	39.09
2	5150.00	37.99 AV	54.00	-16.01	1.12 H	5	-1.10	39.09
3	*5180.00	101.70 PK			1.12 H	5	62.52	39.18
4	*5180.00	90.90 AV			1.12 H	5	51.72	39.18
5	#10360.00	59.82 PK	68.30	-8.48	1.00 H	0	10.35	49.47
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.68 PK	74.00	-13.32	1.26 V	28	21.59	39.09
2	5150.00	43.56 AV	54.00	-10.44	1.26 V	28	4.47	39.09
3	*5180.00	113.13 PK			1.25 V	47	73.95	39.18
4	*5180.00	102.19 AV			1.25 V	47	63.01	39.18
5	#10360.00	60.77 PK	68.30	-7.53	1.00 V	100	11.30	49.47

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”: The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	101.27 PK			1.10 H	360	62.03	39.24
2	*5200.00	90.63 AV			1.10 H	360	51.39	39.24
3	#10400.00	59.27 PK	68.30	-9.03	1.10 H	100	9.67	49.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	112.73 PK			1.27 V	212	73.49	39.24
2	*5200.00	101.98 AV			1.27 V	212	62.74	39.24
3	#10400.00	60.19 PK	68.30	-8.11	1.20 V	300	10.59	49.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	101.39 PK			1.03 H	10	62.08	39.31
2	*5240.00	90.98 AV			1.03 H	10	51.67	39.31
3	#10480.00	59.58 PK	68.30	-8.72	1.10 H	100	9.85	49.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	112.76 PK			1.40 V	212	73.45	39.31
2	*5240.00	101.99 AV			1.40 V	212	62.68	39.31
3	#10480.00	59.60 PK	68.30	-8.70	1.40 V	0	9.87	49.73

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	101.61 PK			1.09 H	330	62.26	39.35
2	*5260.00	90.82 AV			1.09 H	330	51.47	39.35
3	#10520.00	59.07 PK	68.30	-9.23	1.10 H	350	9.31	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	112.39 PK			1.21 V	200	73.04	39.35
2	*5260.00	101.57 AV			1.21 V	200	62.22	39.35
3	#10520.00	60.34 PK	68.30	-7.96	1.30 V	100	10.58	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	101.98 PK			1.13 H	10	62.56	39.42
2	*5300.00	91.24 AV			1.13 H	10	51.82	39.42
3	10600.00	59.75 PK	74.00	-14.25	1.13 H	0	9.99	49.76
4	10600.00	46.53 AV	54.00	-7.47	1.13 H	0	-3.23	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.15 PK			1.39 V	213	73.73	39.42
2	*5300.00	102.01 AV			1.39 V	213	62.59	39.42
3	10600.00	60.54 PK	74.00	-13.46	1.30 V	300	10.78	49.76
4	10600.00	48.13 AV	54.00	-5.87	1.30 V	300	-1.63	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	100.99 PK			1.00 H	209	61.57	39.42
2	*5320.00	89.98 AV			1.00 H	209	50.56	39.42
3	5350.00	49.56 PK	74.00	-24.44	1.44 H	209	10.14	39.42
4	5350.00	38.67 AV	54.00	-15.33	1.44 H	209	-0.75	39.42
5	10640.00	60.24 PK	74.00	-13.76	1.44 H	200	10.40	49.84
6	10640.00	47.44 AV	54.00	-6.56	1.44 H	200	-2.40	49.84
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	112.49 PK			1.28 V	213	73.07	39.42
2	*5320.00	101.43 AV			1.28 V	213	62.01	39.42
3	5350.00	61.71 PK	74.00	-12.29	1.28 V	213	22.29	39.42
4	5350.00	44.31 AV	54.00	-9.69	1.28 V	213	4.89	39.42
5	10640.00	60.02 PK	74.00	-13.98	1.28 V	10	10.18	49.84
6	10640.00	48.12 AV	54.00	-5.88	1.28 V	10	-1.72	49.84

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	49.88 PK	74.00	-24.12	1.23 H	23	10.36	39.52
2	5460.00	39.33 AV	54.00	-14.67	1.23 H	23	-0.19	39.52
3	#5470.00	51.60 PK	68.30	-16.70	1.23 H	23	12.06	39.54
5	*5500.00	103.28 PK			1.23 H	23	63.69	39.59
6	*5500.00	92.52 AV			1.23 H	23	52.93	39.59
7	11000.00	60.86 PK	74.00	-13.14	1.20 H	360	10.63	50.23
8	11000.00	48.80 AV	54.00	-5.20	1.20 H	360	-1.43	50.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	55.82 PK	74.00	-18.18	1.21 V	215	16.30	39.52
2	5460.00	45.69 AV	54.00	-8.31	1.21 V	215	6.17	39.52
3	#5470.00	63.18 PK	68.30	-5.12	1.21 V	215	23.64	39.54
5	*5500.00	113.79 PK			1.21 V	215	74.20	39.59
6	*5500.00	102.81 AV			1.21 V	215	63.22	39.59
7	11000.00	59.62 PK	74.00	-14.38	1.20 V	100	9.39	50.23
8	11000.00	47.94 AV	54.00	-6.06	1.20 V	100	-2.29	50.23

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	102.98 PK			1.20 H	31	63.26	39.72
2	*5600.00	92.14 AV			1.20 H	31	52.42	39.72
3	11200.00	59.74 PK	74.00	-14.26	1.30 H	360	9.60	50.14
4	11200.00	47.82 AV	54.00	-6.18	1.30 H	360	-2.32	50.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	113.17 PK			1.44 V	190	73.45	39.72
2	*5600.00	102.01 AV			1.44 V	190	62.29	39.72
3	11200.00	60.81 PK	74.00	-13.19	1.44 V	100	10.67	50.14
4	11200.00	48.35 AV	54.00	-5.65	1.44 V	100	-1.79	50.14

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	101.24 PK			1.35 H	56	61.44	39.80
2	*5700.00	90.39 AV			1.35 H	56	50.59	39.80
3	#5725.00	61.24 PK	68.30	-7.06	1.35 H	56	21.40	39.84
5	11400.00	59.97 PK	74.00	-14.03	1.35 H	10	9.95	50.02
6	11400.00	47.79 AV	54.00	-6.21	1.35 H	10	-2.23	50.02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	111.72 PK			1.38 V	53	71.92	39.80
2	*5700.00	100.84 AV			1.38 V	53	61.04	39.80
3	#5725.00	66.65 PK	68.30	-1.65	1.38 V	38	26.81	39.84
5	11400.00	60.62 PK	74.00	-13.38	1.30 V	300	10.60	50.02
6	11400.00	48.01 AV	54.00	-5.99	1.30 V	300	-2.01	50.02

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 36	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	68.57 PK	74.00	-5.43	1.02 H	347	29.48	39.09
2	5150.00	48.34 AV	54.00	-5.66	1.02 H	347	9.25	39.09
3	*5180.00	114.10 PK			1.02 H	347	74.92	39.18
4	*5180.00	103.03 AV			1.02 H	347	63.85	39.18
5	#10360.00	60.03 PK	68.30	-8.27	1.03 H	159	10.56	49.47

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	61.24 PK	74.00	-12.76	1.08 V	338	22.15	39.09
2	5150.00	42.34 AV	54.00	-11.66	1.08 V	338	3.25	39.09
3	*5180.00	107.40 PK			1.08 V	338	68.22	39.18
4	*5180.00	97.42 AV			1.08 V	338	58.24	39.18
5	#10360.00	59.94 PK	68.30	-8.36	1.08 V	221	10.47	49.47

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 40	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	113.54 PK			1.01 H	345	74.30	39.24
2	*5200.00	102.48 AV			1.01 H	345	63.24	39.24
3	#10400.00	59.85 PK	68.30	-8.45	1.18 H	349	10.25	49.60
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5200.00	107.85 PK			1.10 V	339	68.61	39.24
2	*5200.00	97.62 AV			1.10 V	339	58.38	39.24
3	#10400.00	60.24 PK	68.30	-8.06	1.03 V	349	10.64	49.60

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 48	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	113.42 PK			1.00 H	346	74.11	39.31
2	*5240.00	102.53 AV			1.00 H	346	63.22	39.31
3	#10480.00	60.11 PK	68.30	-8.19	1.04 H	235	10.38	49.73
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5240.00	107.66 PK			1.08 V	341	68.35	39.31
2	*5240.00	97.21 AV			1.08 V	341	57.90	39.31
3	#10480.00	60.03 PK	68.30	-8.27	1.14 V	217	10.30	49.73

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 52	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	113.38 PK			1.04 H	344	74.03	39.35
2	*5260.00	103.15 AV			1.04 H	344	63.80	39.35
3	#10520.00	60.36 PK	68.30	-7.94	1.08 H	57	10.60	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5260.00	107.86 PK			1.09 V	340	68.51	39.35
2	*5260.00	97.29 AV			1.09 V	340	57.94	39.35
3	#10520.00	59.81 PK	68.30	-8.49	1.12 V	343	10.05	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	113.85 PK			1.05 H	351	74.43	39.42
2	*5300.00	103.54 AV			1.05 H	351	64.12	39.42
3	10600.00	60.24 PK	74.00	-13.76	1.11 H	267	10.48	49.76
4	10600.00	47.58 AV	54.00	-6.42	1.11 H	267	-2.18	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5300.00	107.56 PK			1.10 V	340	68.14	39.42
2	*5300.00	96.94 AV			1.10 V	340	57.52	39.42
3	10600.00	60.26 PK	74.00	-13.74	1.09 V	342	10.50	49.76
4	10600.00	47.18 AV	54.00	-6.82	1.09 V	342	-2.58	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 64	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	113.15 PK			1.10 H	329	73.73	39.42
2	*5320.00	102.63 AV			1.10 H	329	63.21	39.42
3	5350.00	67.19 PK	74.00	-6.81	1.10 H	329	27.77	39.42
4	5350.00	48.31 AV	54.00	-5.69	1.10 H	329	8.89	39.42
5	10640.00	59.86 PK	74.00	-14.14	1.12 H	235	10.02	49.84
6	10640.00	46.81 AV	54.00	-7.19	1.12 H	235	-3.03	49.84
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5320.00	109.06 PK			1.16 V	353	69.64	39.42
2	*5320.00	98.54 AV			1.16 V	353	59.12	39.42
3	5350.00	60.31 PK	74.00	-13.69	1.16 V	353	20.89	39.42
4	5350.00	42.86 AV	54.00	-11.14	1.16 V	353	3.44	39.42
5	10640.00	60.36 PK	74.00	-13.64	1.13 V	254	10.52	49.84
6	10640.00	47.32 AV	54.00	-6.68	1.13 V	254	-2.52	49.84

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 100	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	57.99 PK	74.00	-16.01	1.05 H	338	18.47	39.52
2	5460.00	42.72 AV	54.00	-11.28	1.05 H	338	3.20	39.52
3	#5470.00	67.07 PK	68.30	-1.23	1.05 H	338	27.53	39.54
5	*5500.00	112.85 PK			1.05 H	338	73.26	39.59
6	*5500.00	101.62 AV			1.05 H	338	62.03	39.59
7	11000.00	60.86 PK	74.00	-13.14	1.13 H	25	10.63	50.23
8	11000.00	48.69 AV	54.00	-5.31	1.13 H	25	-1.54	50.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	56.85 PK	74.00	-17.15	1.13 V	342	17.33	39.52
2	5460.00	42.04 AV	54.00	-11.96	1.13 V	342	2.52	39.52
3	#5470.00	66.52 PK	68.30	-1.78	1.13 V	342	26.98	39.54
5	*5500.00	108.64 PK			1.13 V	342	69.05	39.59
6	*5500.00	98.13 AV			1.13 V	342	58.54	39.59
7	11000.00	60.96 PK	74.00	-13.04	1.11 V	79	10.73	50.23
8	11000.00	48.93 AV	54.00	-5.07	1.11 V	79	-1.30	50.23

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 120	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	112.63 PK			1.06 H	350	72.91	39.72
2	*5600.00	101.59 AV			1.06 H	350	61.87	39.72
3	11200.00	61.42 PK	74.00	-12.58	1.15 H	239	11.28	50.14
4	11200.00	49.03 AV	54.00	-4.97	1.15 H	239	-1.11	50.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5600.00	108.31 PK			1.15 V	345	68.59	39.72
2	*5600.00	97.84 AV			1.15 V	345	58.12	39.72
3	11200.00	61.23 PK	74.00	-12.77	1.09 V	224	11.09	50.14
4	11200.00	48.35 AV	54.00	-5.65	1.09 V	224	-1.79	50.14

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 140	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	110.93 PK			1.06 H	343	71.13	39.80
2	*5700.00	100.08 AV			1.06 H	343	60.28	39.80
3	#5725.00	67.15 PK	68.30	-1.15	1.06 H	343	27.31	39.84
5	11400.00	61.53 PK	74.00	-12.47	1.14 H	231	11.51	50.02
6	11400.00	48.84 AV	54.00	-5.16	1.14 H	231	-1.18	50.02

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5700.00	106.73 PK			1.13 V	329	66.93	39.80
2	*5700.00	96.19 AV			1.13 V	329	56.39	39.80
3	#5725.00	65.87 PK	68.30	-2.43	1.13 V	329	26.03	39.84
5	11400.00	62.34 PK	74.00	-11.66	1.18 V	76	12.32	50.02
6	11400.00	49.58 AV	54.00	-4.42	1.18 V	76	-0.44	50.02

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	60.38 PK	74.00	-13.62	1.13 H	6	21.29	39.09
2	5150.00	44.49 AV	54.00	-9.51	1.13 H	6	5.40	39.09
3	*5190.00	97.98 PK			1.13 H	6	58.77	39.21
4	*5190.00	87.12 AV			1.13 H	6	47.91	39.21
5	#10380.00	59.96 PK	68.30	-8.34	1.11 H	125	10.43	49.53
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	70.51 PK	74.00	-3.49	1.30 V	210	31.42	39.09
2	5150.00	50.66 AV	54.00	-3.34	1.30 V	210	11.57	39.09
3	*5190.00	109.13 PK			1.31 V	212	69.92	39.21
4	*5190.00	98.85 AV			1.31 V	212	59.64	39.21
5	#10380.00	60.86 PK	68.30	-7.44	1.10 V	125	11.33	49.53

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”: The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	98.46 PK			1.15 H	9	59.17	39.29
2	*5230.00	87.68 AV			1.15 H	9	48.39	39.29
3	#10460.00	60.13 PK	68.30	-8.17	1.06 H	251	10.43	49.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	109.68 PK			1.31 V	214	70.39	39.29
2	*5230.00	99.36 AV			1.31 V	214	60.07	39.29
3	#10460.00	60.46 PK	68.30	-7.84	1.11 V	25	10.76	49.70

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	98.35 PK			1.13 H	12	58.98	39.37
2	*5270.00	87.46 AV			1.13 H	12	48.09	39.37
3	#10540.00	60.11 PK	68.30	-8.19	1.09 H	266	10.35	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	109.51 PK			1.32 V	216	70.14	39.37
2	*5270.00	99.24 AV			1.32 V	216	59.87	39.37
3	#10540.00	60.62 PK	68.30	-7.68	1.13 V	272	10.86	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	97.62 PK			1.15 H	9	58.20	39.42
2	*5310.00	86.85 AV			1.15 H	9	47.43	39.42
3	5350.00	60.62 PK	74.00	-13.38	1.15 H	9	21.20	39.42
4	5350.00	43.04 AV	54.00	-10.96	1.15 H	9	3.62	39.42
5	10620.00	59.62 PK	74.00	-14.38	1.04 H	278	9.82	49.80
6	10620.00	47.15 AV	54.00	-6.85	1.04 H	278	-2.65	49.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	109.10 PK			1.35 V	228	69.68	39.42
2	*5310.00	98.76 AV			1.35 V	228	59.34	39.42
3	5350.00	67.81 PK	74.00	-6.19	1.35 V	228	28.39	39.42
4	5350.00	49.18 AV	54.00	-4.82	1.35 V	228	9.76	39.42
5	10620.00	59.87 PK	74.00	-14.13	1.06 V	162	10.07	49.80
6	10620.00	47.22 AV	54.00	-6.78	1.06 V	162	-2.58	49.80

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	59.24 PK	74.00	-14.76	1.15 H	12	19.72	39.52
2	5460.00	40.13 AV	54.00	-13.87	1.15 H	12	0.61	39.52
3	#5470.00	62.45 PK	68.30	-5.85	1.15 H	12	22.91	39.54
5	*5510.00	95.76 PK			1.15 H	12	56.16	39.60
6	*5510.00	84.98 AV			1.15 H	12	45.38	39.60
7	11020.00	60.03 PK	74.00	-13.97	1.14 H	28	9.81	50.22
8	11020.00	47.62 AV	54.00	-6.38	1.14 H	28	-2.60	50.22
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.89 PK	74.00	-10.11	1.39 V	230	24.37	39.52
2	5460.00	45.95 AV	54.00	-8.05	1.39 V	230	6.43	39.52
3	#5470.00	66.79 PK	68.30	-1.51	1.39 V	230	27.25	39.54
5	*5510.00	106.37 PK			1.39 V	230	66.77	39.60
6	*5510.00	95.97 AV			1.39 V	230	56.37	39.60
7	11020.00	60.29 PK	74.00	-13.71	1.09 V	163	10.06	50.22
8	11020.00	47.88 AV	54.00	-6.12	1.09 V	163	-2.35	50.22

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	97.86 PK			1.16 H	16	58.15	39.71
2	*5590.00	87.08 AV			1.16 H	16	47.37	39.71
3	11180.00	60.46 PK	74.00	-13.54	1.08 H	249	10.31	50.15
4	11180.00	48.06 AV	54.00	-5.94	1.08 H	249	-2.09	50.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	108.52 PK			1.38 V	228	68.81	39.71
2	*5590.00	98.06 AV			1.38 V	228	58.35	39.71
3	11180.00	60.36 PK	74.00	-13.64	1.14 V	236	10.21	50.15
4	11180.00	47.98 AV	54.00	-6.02	1.14 V	236	-2.17	50.15

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	A
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	97.46 PK			1.15 H	18	57.68	39.78
2	*5670.00	86.72 AV			1.15 H	18	46.94	39.78
3	#5725.00	57.66 PK	68.30	-10.64	1.15 H	18	17.82	39.84
5	11340.00	60.23 PK	74.00	-13.77	1.01 H	256	10.17	50.06
6	11340.00	47.84 AV	54.00	-6.16	1.01 H	256	-2.22	50.06

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	107.96 PK			1.33 V	231	68.18	39.78
2	*5670.00	97.39 AV			1.33 V	231	57.61	39.78
3	#5725.00	62.86 PK	68.30	-5.44	1.33 V	231	23.02	39.84
5	11340.00	60.58 PK	74.00	-13.42	1.17 V	56	10.52	50.06
6	11340.00	48.14 AV	54.00	-5.86	1.17 V	56	-1.92	50.06

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 38	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	72.66 PK	74.00	-1.34	1.13 H	341	33.57	39.09
2	5150.00	52.84 AV	54.00	-1.16	1.13 H	341	13.75	39.09
3	*5190.00	110.40 PK			1.00 H	345	71.19	39.21
4	*5190.00	100.06 AV			1.00 H	345	60.85	39.21
5	#10380.00	60.14 PK	68.30	-8.16	1.13 H	286	10.61	49.53

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5150.00	63.36 PK	74.00	-10.64	1.09 V	340	24.27	39.09
2	5150.00	44.51 AV	54.00	-9.49	1.09 V	340	5.42	39.09
3	*5190.00	104.26 PK			1.09 V	340	65.05	39.21
4	*5190.00	94.29 AV			1.09 V	340	55.08	39.21
5	#10380.00	59.84 PK	68.30	-8.46	1.06 V	261	10.31	49.53

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. "#":The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 46	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	110.26 PK			1.02 H	346	70.97	39.29
2	*5230.00	99.85 AV			1.02 H	346	60.56	39.29
3	#10460.00	60.36 PK	68.30	-7.94	1.18 H	276	10.66	49.70
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5230.00	104.13 PK			1.10 V	343	64.84	39.29
2	*5230.00	94.18 AV			1.10 V	343	54.89	39.29
3	#10460.00	60.48 PK	68.30	-7.82	1.19 V	261	10.78	49.70

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 54	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	110.63 PK			1.03 H	351	71.26	39.37
2	*5270.00	100.29 AV			1.03 H	351	60.92	39.37
3	#10540.00	60.36 PK	68.30	-7.94	1.18 H	297	10.60	49.76
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5270.00	104.51 PK			1.10 V	346	65.14	39.37
2	*5270.00	94.58 AV			1.10 V	346	55.21	39.37
3	#10540.00	60.11 PK	68.30	-8.19	1.03 V	235	10.35	49.76

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 62	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	110.18 PK			1.00 H	346	70.76	39.42
2	*5310.00	99.79 AV			1.00 H	346	60.37	39.42
3	5350.00	72.63 PK	74.00	-1.37	1.08 H	336	33.21	39.42
4	5350.00	52.42 AV	54.00	-1.58	1.08 H	336	13.00	39.42
5	10620.00	60.35 PK	74.00	-13.65	1.18 H	76	10.55	49.80
6	10620.00	47.68 AV	54.00	-6.32	1.18 H	76	-2.12	49.80
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5310.00	104.02 PK			1.10 V	345	64.60	39.42
2	*5310.00	93.96 AV			1.10 V	345	54.54	39.42
3	5350.00	66.45 PK	74.00	-7.55	1.10 V	345	27.03	39.42
4	5350.00	46.23 AV	54.00	-7.77	1.10 V	345	6.81	39.42
5	10620.00	60.48 PK	74.00	-13.52	1.19 V	326	10.68	49.80
6	10620.00	47.82 AV	54.00	-6.18	1.19 V	326	-1.98	49.80

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 102	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	64.32 PK	74.00	-9.68	1.07 H	336	24.80	39.52
2	5460.00	46.39 AV	54.00	-7.61	1.07 H	336	6.87	39.52
3	#5470.00	67.11 PK	68.30	-1.19	1.07 H	336	27.57	39.54
5	*5510.00	109.03 PK			1.01 H	349	69.43	39.60
6	*5510.00	98.61 AV			1.01 H	349	59.01	39.60
7	11020.00	60.46 PK	74.00	-13.54	1.13 H	249	10.24	50.22
8	11020.00	47.85 AV	54.00	-6.15	1.13 H	249	-2.37	50.22
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	5460.00	63.15 PK	74.00	-10.85	1.10 V	346	23.63	39.52
2	5460.00	45.04 AV	54.00	-8.96	1.10 V	346	5.52	39.52
3	#5470.00	65.79 PK	68.30	-2.51	1.10 V	346	26.25	39.54
5	*5510.00	103.02 PK			1.10 V	346	63.42	39.60
6	*5510.00	93.07 AV			1.10 V	346	53.47	39.60
7	11020.00	60.56 PK	74.00	-13.44	1.13 V	241	10.34	50.22
8	11020.00	47.98 AV	54.00	-6.02	1.13 V	241	-2.24	50.22

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	110.68 PK			1.03 H	339	70.97	39.71
2	*5590.00	100.24 AV			1.03 H	339	60.53	39.71
3	11180.00	60.95 PK	74.00	-13.05	1.21 H	74	10.80	50.15
4	11180.00	48.23 AV	54.00	-5.77	1.21 H	74	-1.92	50.15
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5590.00	104.88 PK			1.13 V	349	65.17	39.71
2	*5590.00	94.94 AV			1.13 V	349	55.23	39.71
3	11180.00	60.93 PK	74.00	-13.07	1.13 V	241	10.78	50.15
4	11180.00	48.31 AV	54.00	-5.69	1.13 V	241	-1.84	50.15

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * ”: Fundamental frequency.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 134	FREQUENCY RANGE	1 ~ 40GHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Average (AV)
ENVIRONMENTAL CONDITIONS	24deg. C, 64%RH 1000hPa	TEST MODE	B
TESTED BY	Match Tsui		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	109.01 PK			1.05 H	342	69.23	39.78
2	*5670.00	98.64 AV			1.05 H	342	58.86	39.78
3	#5725.00	67.06 PK	68.30	-1.24	1.12 H	338	27.22	39.84
5	11340.00	61.65 PK	74.00	-12.35	1.12 H	259	11.59	50.06
6	11340.00	48.95 AV	54.00	-5.05	1.12 H	259	-1.11	50.06

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*5670.00	103.12 PK			1.12 V	346	63.34	39.78
2	*5670.00	93.23 AV			1.12 V	346	53.45	39.78
3	#5725.00	65.84 PK	68.30	-2.46	1.12 V	346	26.00	39.84
5	11340.00	61.82 PK	74.00	-12.18	1.23 V	55	11.76	50.06
6	11340.00	49.11 AV	54.00	-4.89	1.23 V	55	-0.95	50.06

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. “ * “: Fundamental frequency.
 6. “#”:The radiated frequency is out the restricted band.

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 999hPa	TEST MODE	A
TESTED BY	Antony Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	30.91 QP	43.50	-12.59	1.50 H	10	21.60	9.31
2	300.16	37.96 QP	46.00	-8.04	1.25 H	46	24.36	13.60
3	344.87	33.67 QP	46.00	-12.33	1.00 H	64	19.00	14.67
4	399.31	36.97 QP	46.00	-9.03	1.00 H	154	20.99	15.98
5	597.63	37.09 QP	46.00	-8.91	1.25 H	142	15.64	21.45
6	700.68	33.25 QP	46.00	-12.75	1.25 H	157	10.75	22.50
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	28.80 QP	43.50	-14.70	1.50 V	58	19.49	9.31
2	300.16	34.93 QP	46.00	-11.07	1.00 V	97	21.33	13.60
3	399.31	33.15 QP	46.00	-12.85	1.25 V	1	17.17	15.98
4	550.97	36.85 QP	46.00	-9.15	1.50 V	79	16.51	20.34
5	568.47	34.88 QP	46.00	-11.12	1.50 V	88	14.12	20.76
6	599.58	32.80 QP	46.00	-13.20	1.25 V	121	11.30	21.50
7	854.28	32.57 QP	46.00	-13.43	1.25 V	178	7.14	25.43

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 999hPa	TEST MODE	B
TESTED BY	Antony Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	97.95	40.01 QP	43.50	-3.49	3.00 H	298	30.72	9.29
2	298.21	39.37 QP	46.00	-6.63	1.00 H	151	25.80	13.57
3	337.10	32.02 QP	46.00	-13.98	1.00 H	145	17.53	14.49
4	599.58	35.02 QP	46.00	-10.98	1.50 H	148	13.52	21.50
5	663.74	37.21 QP	46.00	-8.79	1.25 H	331	15.09	22.12
6	832.89	35.15 QP	46.00	-10.85	1.00 H	64	9.92	25.23
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	32.91 QP	43.50	-10.59	1.25 V	307	23.60	9.31
2	298.21	30.58 QP	46.00	-15.42	1.00 V	10	17.01	13.57
3	352.65	28.18 QP	46.00	-17.82	1.00 V	271	13.32	14.86
4	397.37	31.84 QP	46.00	-14.16	1.25 V	238	15.91	15.93
5	597.63	33.02 QP	46.00	-12.98	1.25 V	10	11.57	21.45
6	663.74	30.90 QP	46.00	-15.10	1.00 V	319	8.78	22.12
7	846.50	30.57 QP	46.00	-15.43	1.00 V	346	5.21	25.36

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 999hPa	TEST MODE	C
TESTED BY	Antony Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	298.21	41.33 QP	46.00	-4.67	1.00 H	334	27.76	13.57
2	344.87	28.53 QP	46.00	-17.47	1.00 H	313	13.86	14.67
3	599.58	29.38 QP	46.00	-16.62	1.00 H	10	7.88	21.50
4	665.68	38.00 QP	46.00	-8.00	1.00 H	325	15.86	22.14
5	700.68	33.73 QP	46.00	-12.27	1.00 H	325	11.23	22.50
6	830.95	30.69 QP	46.00	-15.31	1.00 H	10	5.47	25.21
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	99.89	25.11 QP	43.50	-18.39	1.00 V	10	15.80	9.31
2	300.16	33.60 QP	46.00	-12.40	1.00 V	283	20.00	13.60
3	500.42	29.04 QP	46.00	-16.96	1.00 V	1	9.92	19.12
4	597.63	33.17 QP	46.00	-12.83	1.00 V	10	11.72	21.45
5	663.74	33.35 QP	46.00	-12.65	1.00 V	340	11.23	22.12
6	848.45	26.99 QP	46.00	-19.01	1.00 V	10	1.61	25.38

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

BELOW 1GHz WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 999hPa	TEST MODE	A
TESTED BY	Antony Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	97.95	30.60 QP	43.50	-12.90	1.50 H	52	21.31	9.29
2	298.21	38.15 QP	46.00	-7.85	1.25 H	28	24.58	13.57
3	337.10	34.75 QP	46.00	-11.25	1.00 H	55	20.27	14.49
4	397.37	36.54 QP	46.00	-9.46	1.00 H	154	20.60	15.93
5	477.09	38.01 QP	46.00	-7.99	1.50 H	259	19.64	18.38
6	597.63	37.18 QP	46.00	-8.82	1.25 H	148	15.73	21.45
7	700.68	33.00 QP	46.00	-13.00	1.00 H	148	10.50	22.50

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	68.79	30.52 QP	40.00	-9.48	1.00 V	70	18.79	11.74
2	292.38	36.01 QP	46.00	-9.99	1.00 V	280	22.54	13.47
3	331.26	37.15 QP	46.00	-8.85	1.00 V	277	22.80	14.35
4	352.65	36.51 QP	46.00	-9.49	1.50 V	280	21.65	14.86
5	479.03	37.15 QP	46.00	-8.85	1.00 V	187	18.71	18.44
6	564.58	37.19 QP	46.00	-8.81	1.00 V	238	16.52	20.67
7	696.79	34.78 QP	46.00	-11.22	1.00 V	253	12.33	22.45
8	803.73	35.88 QP	46.00	-10.12	1.00 V	268	10.92	24.96

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 999hPa	TEST MODE	B
TESTED BY	Antony Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	97.95	38.83 QP	43.50	-4.67	2.00 H	316	29.54	9.29
2	298.21	36.74 QP	46.00	-9.26	1.50 H	181	23.17	13.57
3	399.31	28.21 QP	46.00	-17.79	1.00 H	223	12.23	15.98
4	597.63	34.06 QP	46.00	-11.94	1.00 H	298	12.60	21.45
5	665.68	36.01 QP	46.00	-9.99	1.00 H	328	13.87	22.14
6	817.34	31.42 QP	46.00	-14.58	1.25 H	10	6.33	25.09
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	97.95	34.54 QP	43.50	-8.96	1.00 V	295	25.25	9.29
2	311.82	33.48 QP	46.00	-12.52	1.50 V	244	19.60	13.88
3	337.10	34.30 QP	46.00	-11.70	1.00 V	259	19.81	14.49
4	399.31	32.48 QP	46.00	-13.52	1.00 V	241	16.50	15.98
5	475.14	31.75 QP	46.00	-14.25	1.00 V	304	13.44	18.32
6	597.63	32.10 QP	46.00	-13.90	1.00 V	10	10.65	21.45

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	FREQUENCY RANGE	Below 1000MHz
INPUT POWER (SYSTEM)	120Vac, 60 Hz	DETECTOR FUNCTION	Quasi-Peak
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH 999hPa	TEST MODE	C
TESTED BY	Antony Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	300.16	41.08 QP	46.00	-4.92	1.00 H	334	27.48	13.60
2	344.87	29.24 QP	46.00	-16.76	1.00 H	298	14.57	14.67
3	480.97	26.49 QP	46.00	-19.51	1.25 H	259	7.99	18.50
4	599.58	31.13 QP	46.00	-14.87	1.00 H	259	9.63	21.50
5	667.63	37.46 QP	46.00	-8.54	1.00 H	325	15.29	22.16
6	770.67	32.20 QP	46.00	-13.80	1.00 H	301	7.98	24.22
7	823.17	31.24 QP	46.00	-14.76	1.00 H	10	6.10	25.14
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	315.71	38.18 QP	46.00	-7.82	1.25 V	292	24.21	13.97
2	329.32	37.49 QP	46.00	-8.51	1.00 V	265	23.19	14.30
3	350.71	35.34 QP	46.00	-10.66	1.00 V	292	20.52	14.81
4	372.09	31.92 QP	46.00	-14.08	1.00 V	250	16.59	15.33
5	556.80	36.99 QP	46.00	-9.01	1.50 V	259	16.51	20.48
6	605.41	31.56 QP	46.00	-14.44	1.00 V	313	10.00	21.56
7	663.74	31.41 QP	46.00	-14.59	1.00 V	340	9.28	22.12
8	809.56	33.08 QP	46.00	-12.92	1.00 V	10	8.07	25.02

- REMARKS:**
1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:**
1. The lower limit shall apply at the transition frequencies.
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100291	Nov. 22, 2007	Nov. 21, 2008
RF signal cable Woken	5D-FB	Cable-HYC01-01	Jan. 04, 2008	Jan. 03, 2009
LISN ROHDE & SCHWARZ	ESH3-Z5	100312	Jun. 13, 2008	Jun. 12, 2009
V-LISN SCHWARZBECK	NNBL 8226-2	8226-142	Jun. 10, 2008	Jun. 09, 2009
Software ADT	ADT_Cond_V3	NA	NA	NA

- NOTE:**
1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Shielded Room 1.
 3. The VCCI Site Registration No. is C-2040.

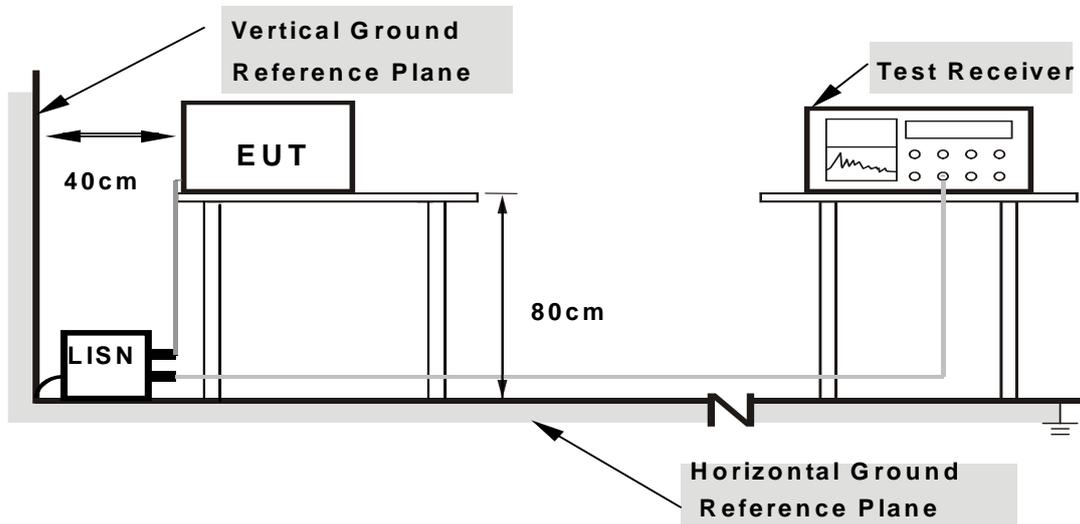
4.2.3 TEST PROCEDURES

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6.

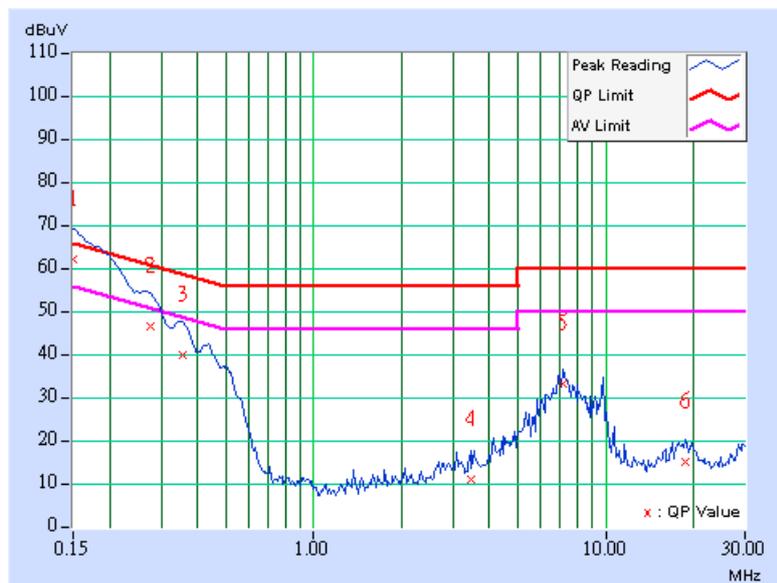
4.2.7 TEST RESULTS

CONDUCTED WORST-CASE DATA : DRAFT 802.11n (20MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	PHASE	Line 1
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	7.2Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	A
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	61.25	31.10	61.45	31.30	66.00
2	0.275	0.20	45.59	-	45.79	-	60.97	50.97	-15.18	-
3	0.357	0.20	38.91	-	39.11	-	58.80	48.80	-19.69	-
4	3.449	0.34	10.09	-	10.43	-	56.00	46.00	-45.57	-
5	7.156	0.47	32.36	-	32.83	-	60.00	50.00	-27.17	-
6	18.684	0.95	14.39	-	15.34	-	60.00	50.00	-44.66	-

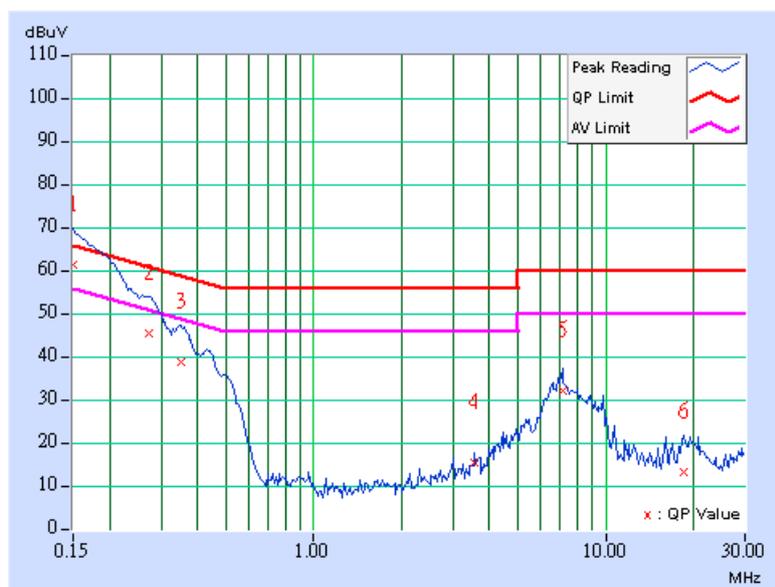
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	PHASE	Line 2
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	7.2Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	A
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	60.95	30.85	61.15	31.05	66.00
2	0.271	0.20	45.23	-	45.43	-	61.08	51.08	-15.65	-
3	0.349	0.20	38.21	-	38.41	-	58.98	48.98	-20.57	-
4	3.559	0.36	14.91	-	15.27	-	56.00	46.00	-40.73	-
5	7.164	0.47	31.71	-	32.18	-	60.00	50.00	-27.82	-
6	18.555	0.51	12.97	-	13.48	-	60.00	50.00	-46.52	-

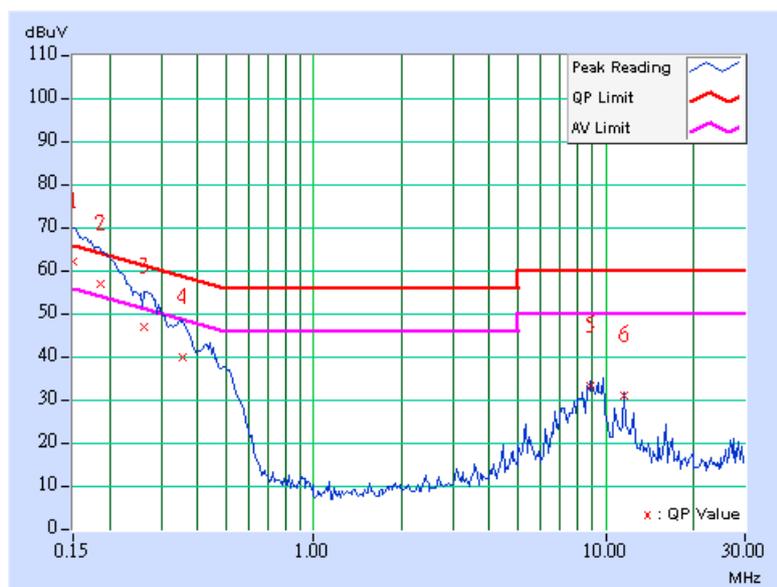
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	PHASE	Line 1
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	7.2Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	B
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	61.49	31.35	61.69	31.55	66.00
2	0.185	0.20	56.35	26.31	56.55	26.51	64.25	54.25	-7.70	-27.74
3	0.263	0.20	46.40	-	46.60	-	61.33	51.33	-14.73	-
4	0.357	0.20	39.33	-	39.53	-	58.80	48.80	-19.27	-
5	8.898	0.51	32.60	-	33.11	-	60.00	50.00	-26.89	-
6	11.566	0.61	30.48	-	31.09	-	60.00	50.00	-28.91	-

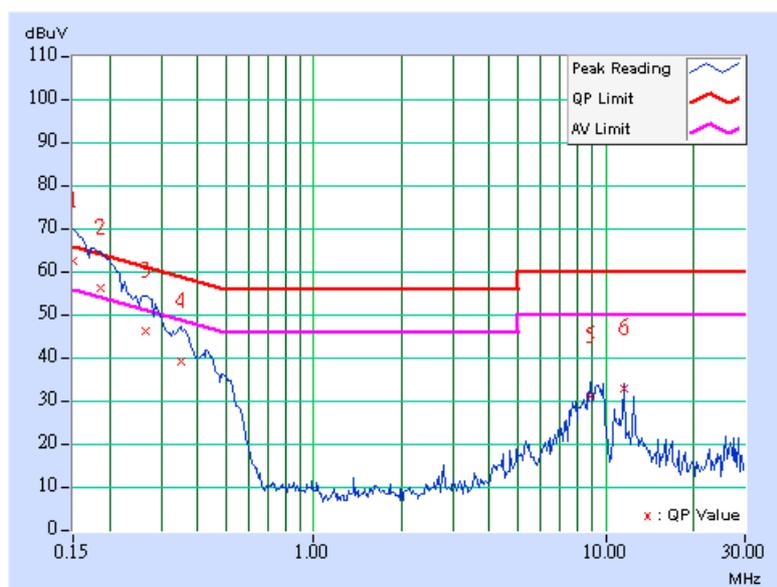
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 60	PHASE	Line 2
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	7.2Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	B
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.20	62.12	31.71	62.32	31.91	66.00	56.00	-3.68	-24.09
2	0.185	0.20	55.77	26.02	55.97	26.22	64.25	54.25	-8.28	-28.03
3	0.267	0.20	45.70	-	45.90	-	61.20	51.20	-15.30	-
4	0.349	0.20	38.64	-	38.84	-	58.98	48.98	-20.14	-
5	8.902	0.51	30.55	-	31.06	-	60.00	50.00	-28.94	-
6	11.566	0.52	32.60	-	33.12	-	60.00	50.00	-26.88	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.

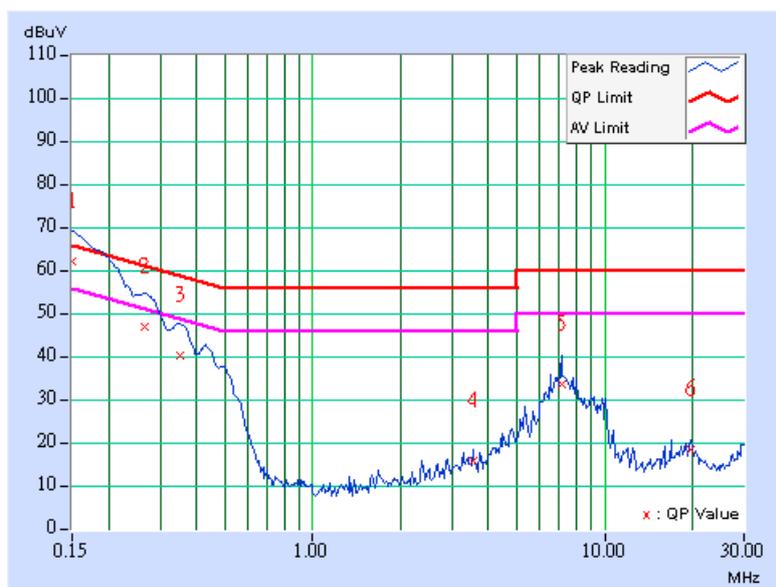


CONDUCTED WORST-CASE DATA : DRAFT 802.11n (40MHz) OFDM MODULATION

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	PHASE	Line 1
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	15Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	A
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	61.17	31.04	61.37	31.24	66.00
2	0.267	0.20	45.86	-	46.06	-	61.20	51.20	-15.14	-
3	0.349	0.20	39.20	-	39.40	-	58.98	48.98	-19.58	-
4	3.559	0.36	15.11	-	15.47	-	56.00	46.00	-40.53	-
5	7.156	0.47	32.60	-	33.07	-	60.00	50.00	-26.93	-
6	19.680	1.00	17.53	-	18.53	-	60.00	50.00	-41.47	-

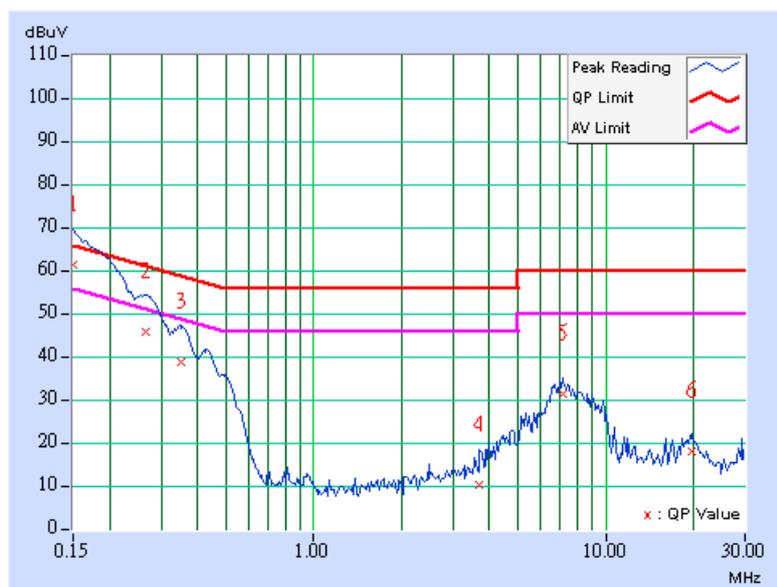
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	PHASE	Line 2
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	15Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	A
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.20	60.87	30.85	61.07	31.05	66.00	56.00	-4.93	-24.95
2	0.267	0.20	45.36	-	45.56	-	61.20	51.20	-15.64	-
3	0.349	0.20	38.21	-	38.41	-	58.98	48.98	-20.57	-
4	3.707	0.37	9.94	-	10.31	-	56.00	46.00	-45.69	-
5	7.141	0.47	31.08	-	31.55	-	60.00	50.00	-28.45	-
6	19.770	0.51	17.47	-	17.98	-	60.00	50.00	-42.02	-

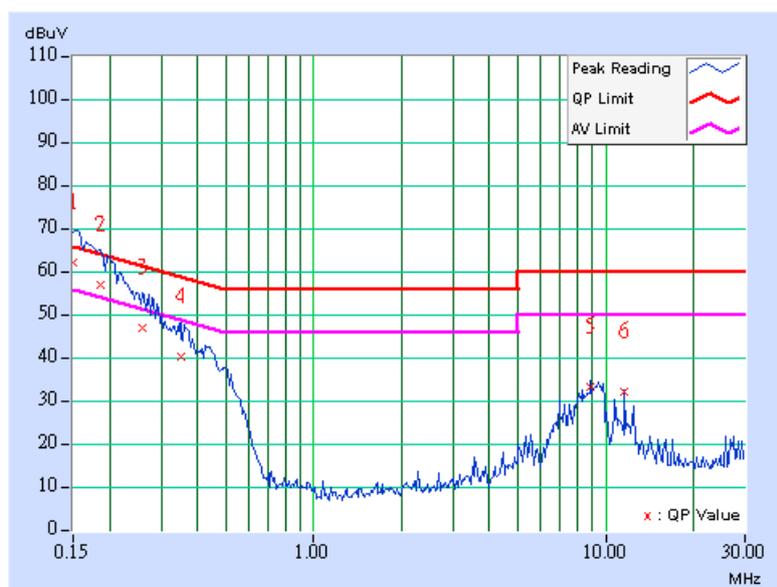
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	PHASE	Line 1
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	15Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	B
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.150	0.20	61.51	31.35	61.71	31.55	66.00	56.00	-4.29	-24.45
2	0.185	0.20	56.35	26.31	56.55	26.51	64.25	54.25	-7.70	-27.74
3	0.259	0.20	46.48	-	46.68	-	61.45	51.45	-14.77	-
4	0.353	0.20	39.70	-	39.90	-	58.89	48.89	-18.99	-
5	8.898	0.51	32.76	-	33.27	-	60.00	50.00	-26.73	-
6	11.570	0.61	31.45	-	32.06	-	60.00	50.00	-27.94	-

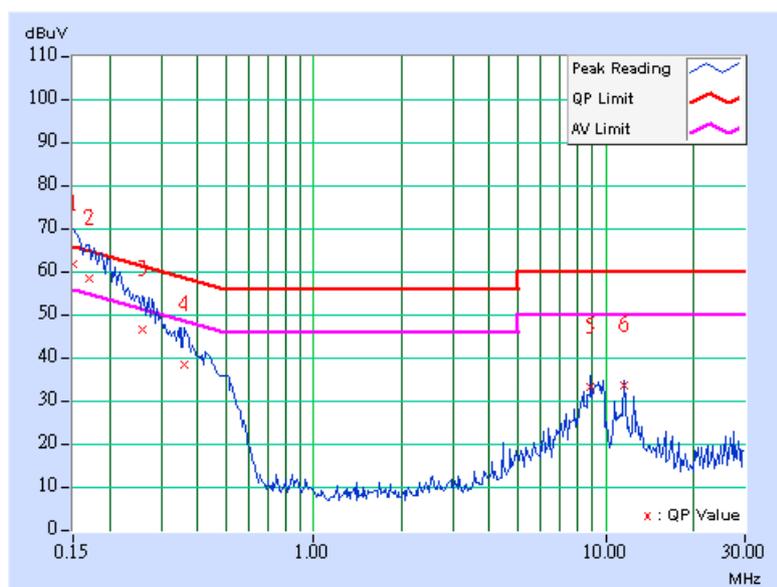
- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 118	PHASE	Line 2
MODULATION TYPE	BPSK	INPUT POWER (SYSTEM)	120Vac, 60Hz
TRANSFER RATE	15Mbps	6dB BANDWIDTH	9kHz
ENVIRONMENTAL CONDITIONS	20deg. C, 60%RH, 982hPa	TEST MODE	B
TESTED BY	Match Tsui		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.150	0.20	61.27	31.23	61.47	31.43	66.00
2	0.170	0.20	57.93	27.86	58.13	28.06	64.98	54.98	-6.85	-26.92
3	0.259	0.20	46.00	-	46.20	-	61.45	51.45	-15.25	-
4	0.361	0.20	37.86	-	38.06	-	58.71	48.71	-20.65	-
5	8.898	0.51	32.92	-	33.43	-	60.00	50.00	-26.57	-
6	11.570	0.52	33.14	-	33.66	-	60.00	50.00	-26.34	-

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Emission level - Limit value
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



4.3 PEAK TRANSMIT POWER MEASUREMENT

4.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.250 ~ 5.350GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.470 ~ 5.725GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB

NOTE: Where B is the 26dB emission bandwidth in MHz.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
High Speed Peak Power Meter	ML2495A	0824012	Aug. 04, 2008	Aug. 03, 2009
Power Sensor	MA2444B	0738138	Aug. 04, 2008	Aug. 03, 2009

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. Measurement Bandwidth of ML2495A is 65MHz greater than 6dB bandwidth of emission.

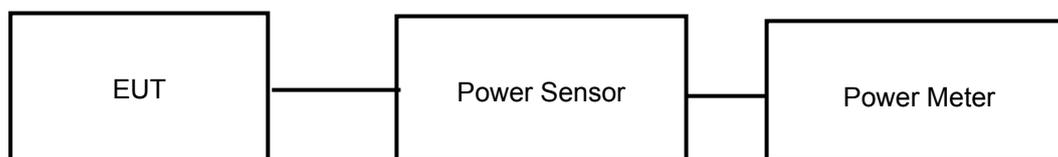
4.3.3 TEST PROCEDURES

A power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITIONS

Same as Item 4.3.6



4.3.7 TEST RESULTS

PEAK POWER OUTPUT: 802.11a OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (mW)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
36	5180	28.576	14.56	17	PASS
40	5200	25.527	14.07	17	PASS
48	5240	25.351	14.04	17	PASS
52	5260	25.763	14.11	24	PASS
60	5300	25.468	14.06	24	PASS
64	5320	25.645	14.09	24	PASS
100	5500	25.410	14.05	24	PASS
120	5600	25.645	14.09	24	PASS
140	5700	17.906	12.53	24	PASS



DRAFT 802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	12.06	12.04	32.065	15.06	17	PASS
40	5200	12.03	12.08	32.102	15.07	17	PASS
48	5240	12.07	12.03	32.065	15.06	17	PASS
52	5260	12.11	12.05	32.288	15.09	24	PASS
60	5300	12.08	12.09	32.324	15.10	24	PASS
64	5320	12.05	12.02	31.955	15.05	24	PASS
100	5500	12.09	12.06	32.250	15.09	24	PASS
120	5600	12.13	12.08	32.474	15.12	24	PASS
140	5700	10.52	10.54	22.596	13.54	24	PASS



DRAFT 802.11n (40MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHAN.	CHAN. FREQ. (MHz)	PEAK POWER OUTPUT (dBm)		TOTAL PEAK POWER (mW)	TOTAL PEAK POWER (dBm)	PEAK POWER LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	12.07	12.04	32.102	15.07	17	PASS
46	5230	12.54	11.08	30.771	14.88	17	PASS
54	5270	12.05	12.06	32.102	15.07	24	PASS
62	5310	12.09	11.55	30.470	14.84	24	PASS
102	5510	11.06	10.56	24.141	13.83	24	PASS
118	5590	12.52	12.53	35.771	15.54	24	PASS
134	5670	11.57	11.08	27.178	14.34	24	PASS

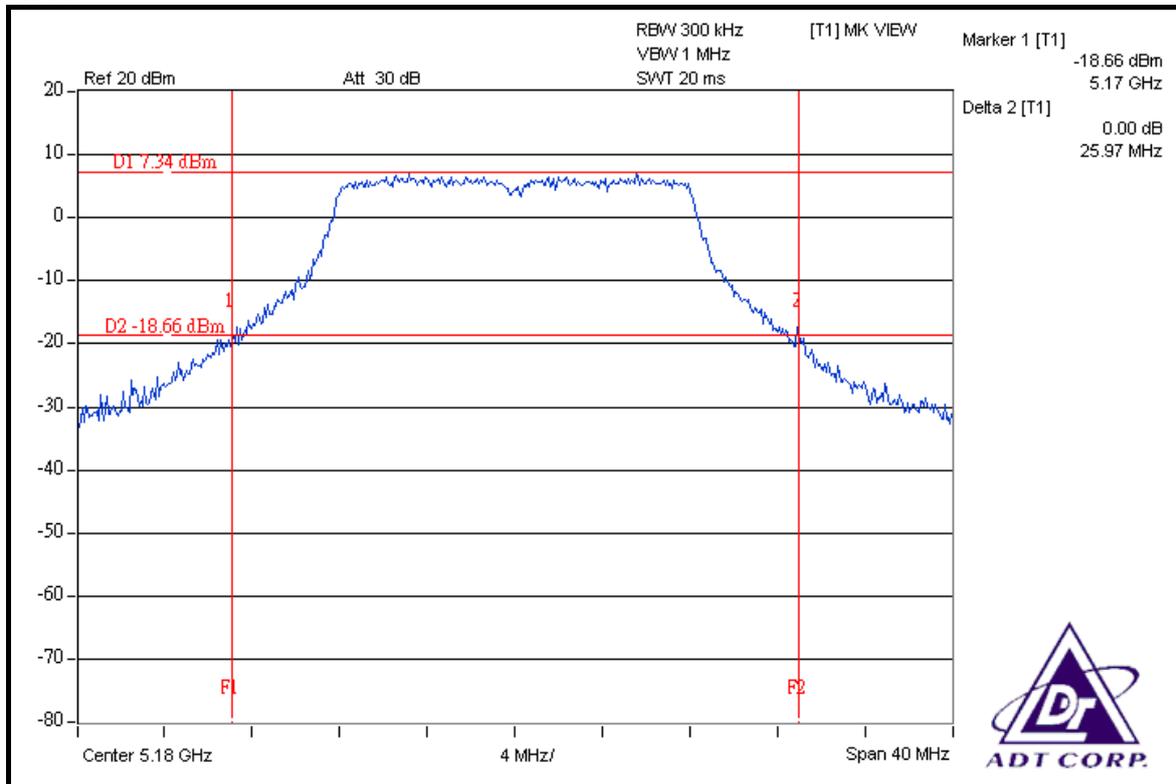


26dB OCCUPIED BANDWIDTH: 802.11a OFDM MODULATION

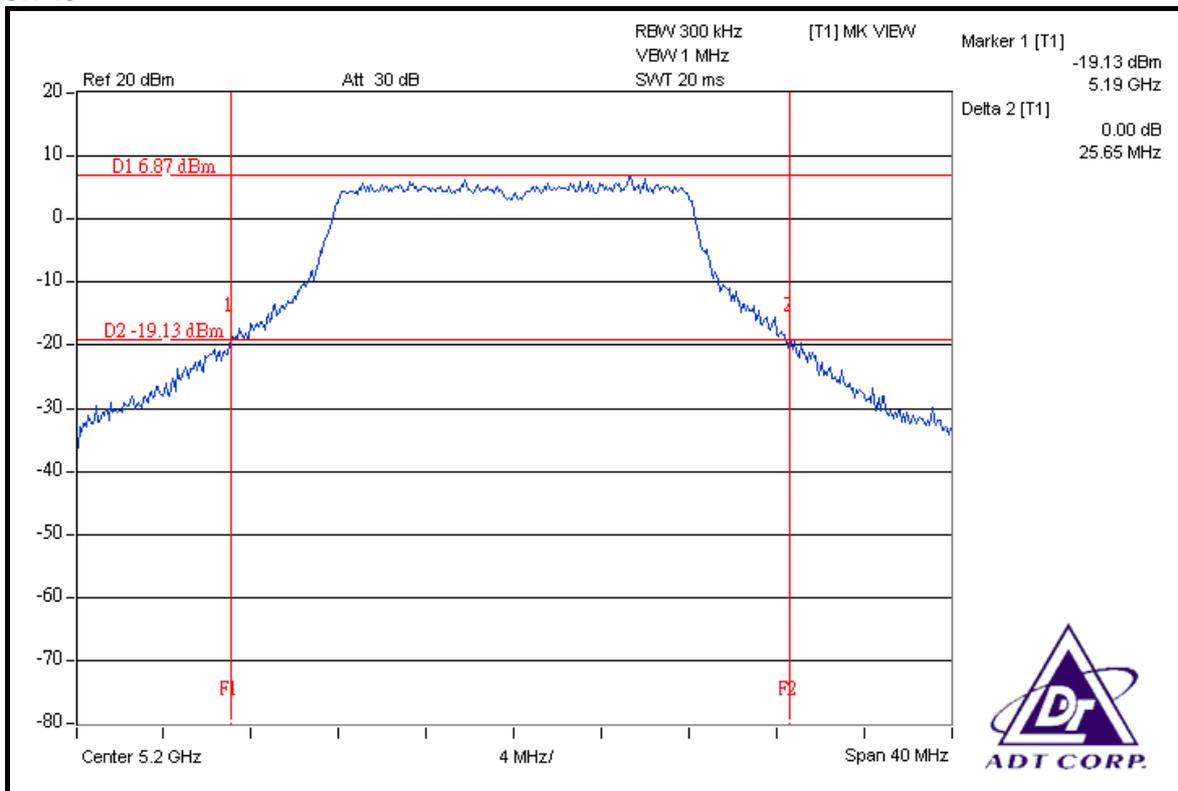
MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)	PASS / FAIL
36	5180	25.97	PASS
40	5200	25.65	PASS
48	5240	25.61	PASS
52	5260	26.07	PASS
60	5300	26.28	PASS
64	5320	25.67	PASS
100	5500	25.28	PASS
120	5600	25.21	PASS
140	5700	25.63	PASS

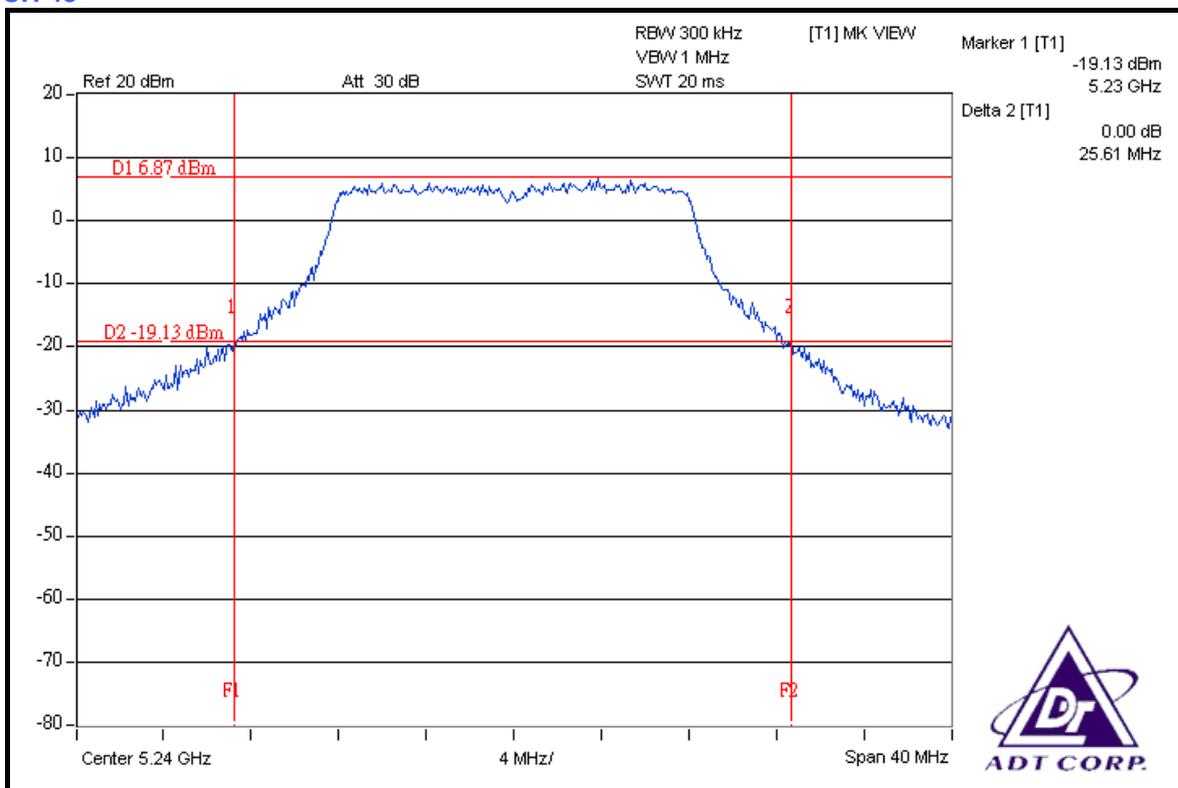
CH 36



CH 40

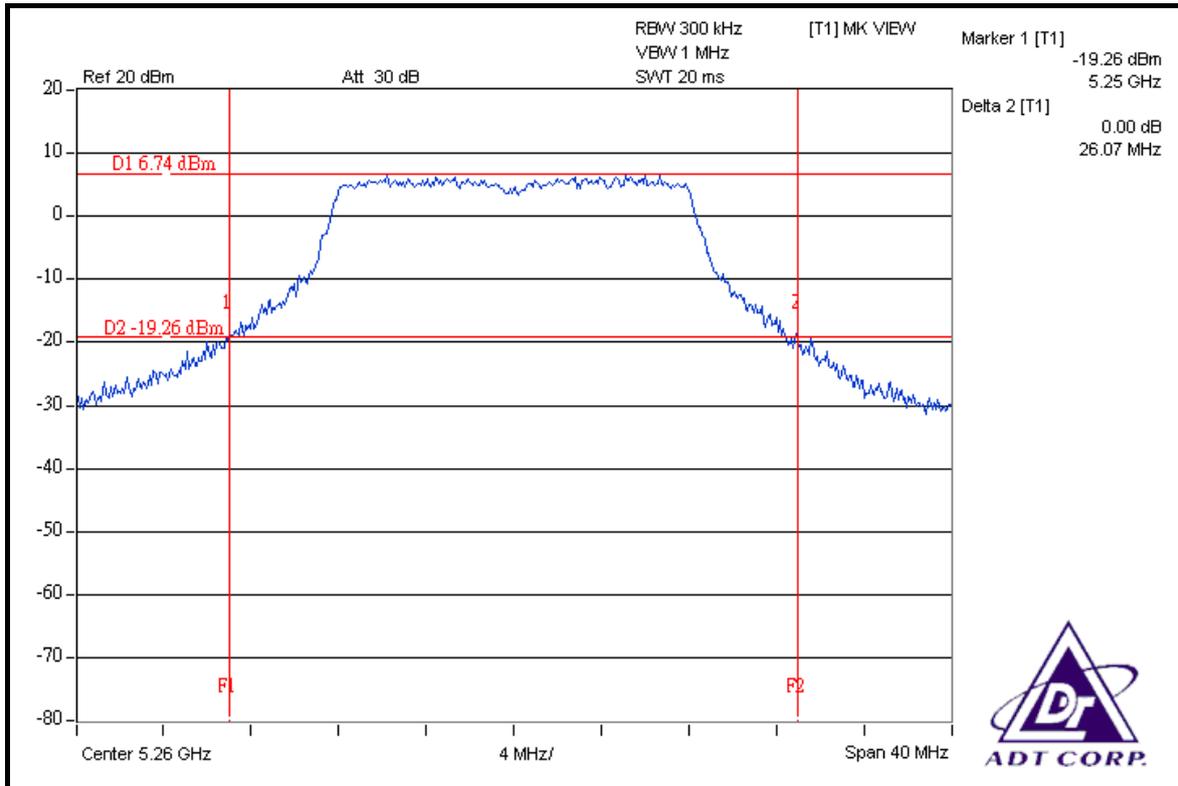


CH 48

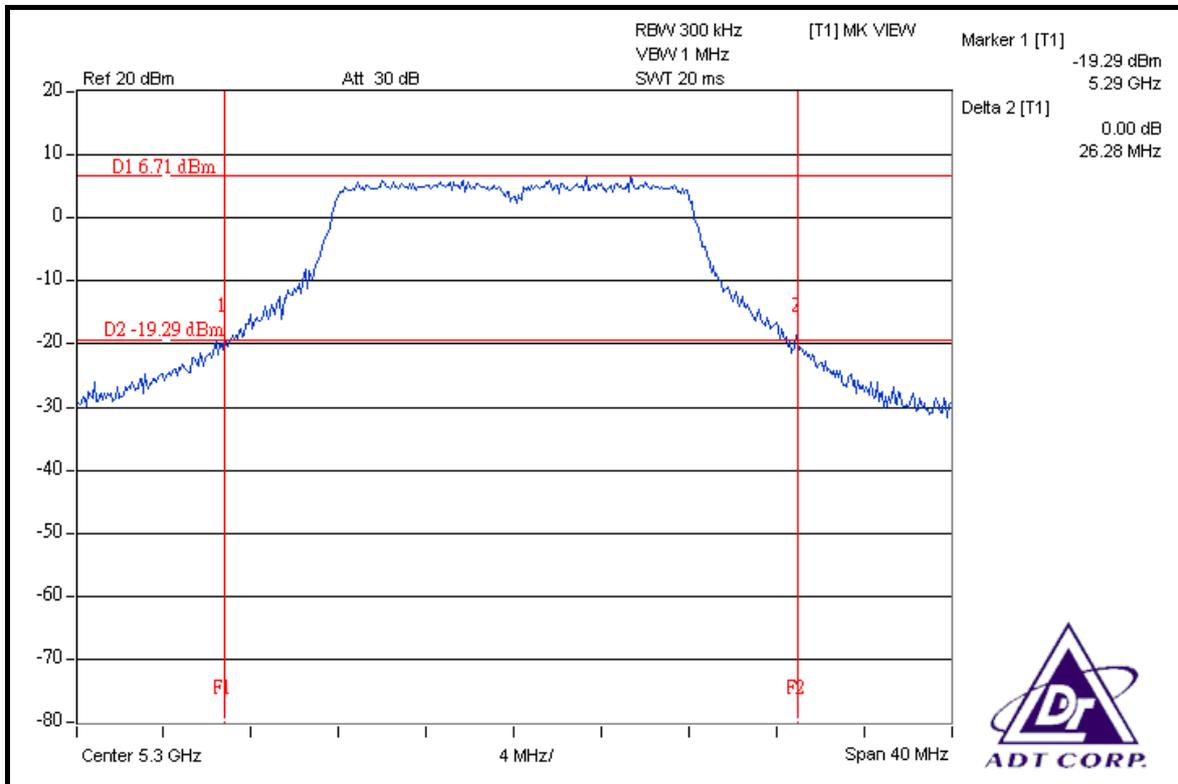




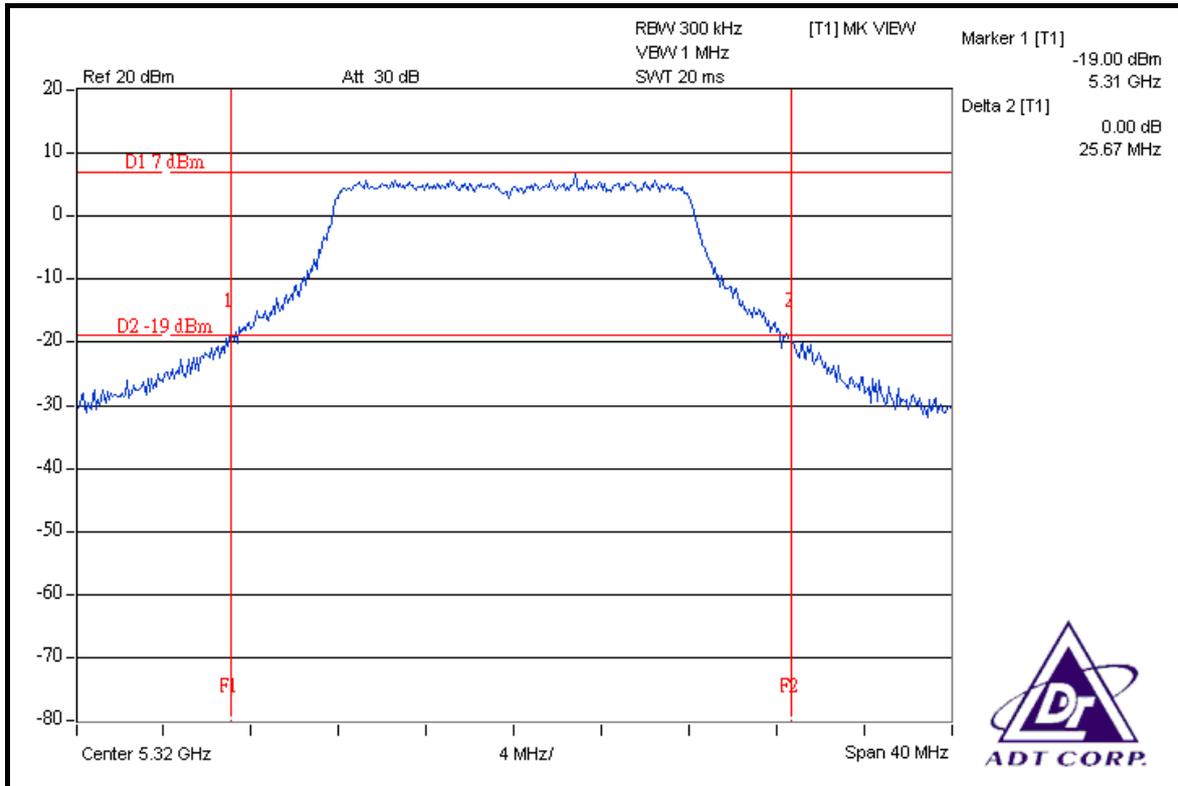
CH 52



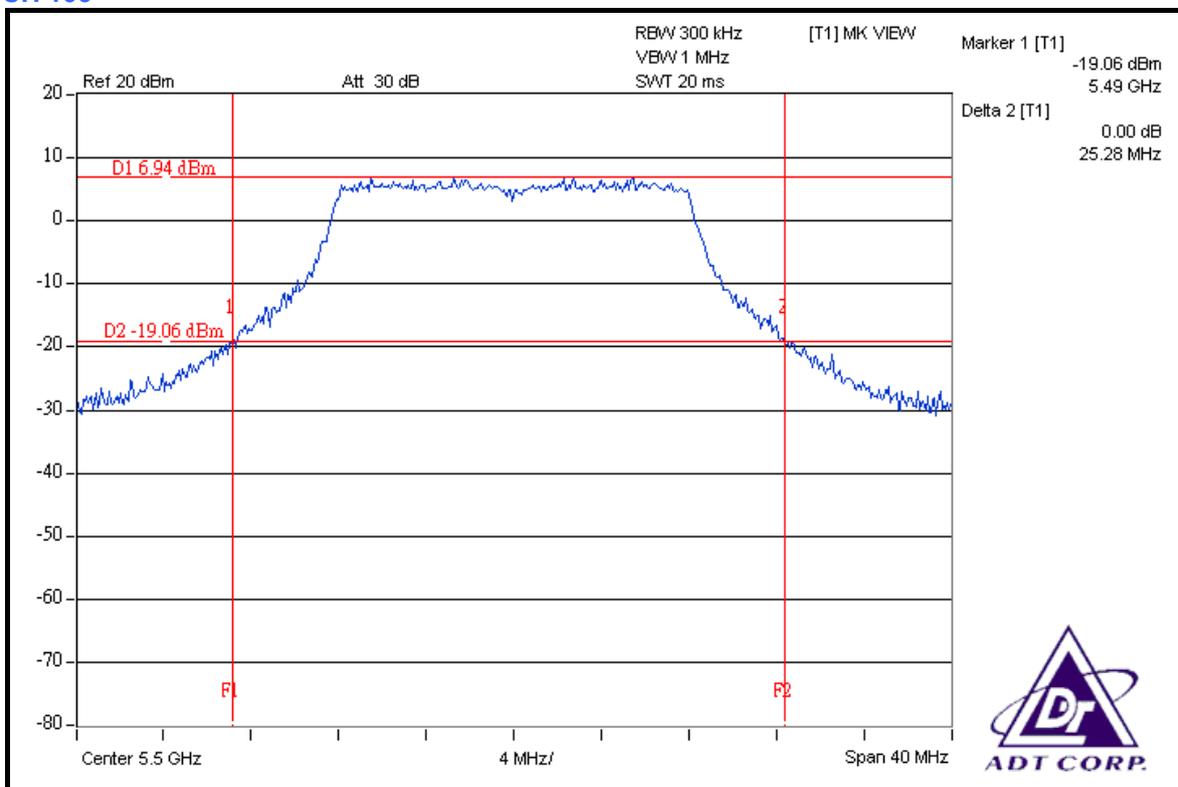
CH 60



CH 64

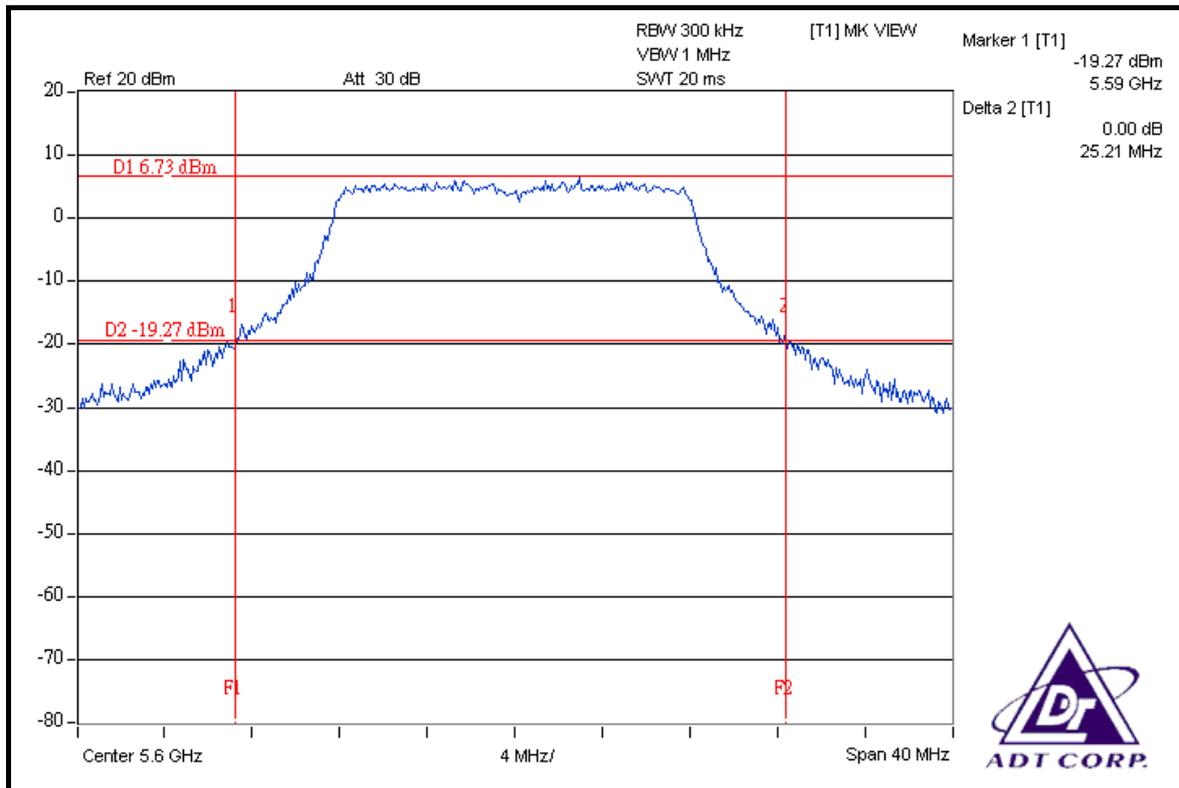


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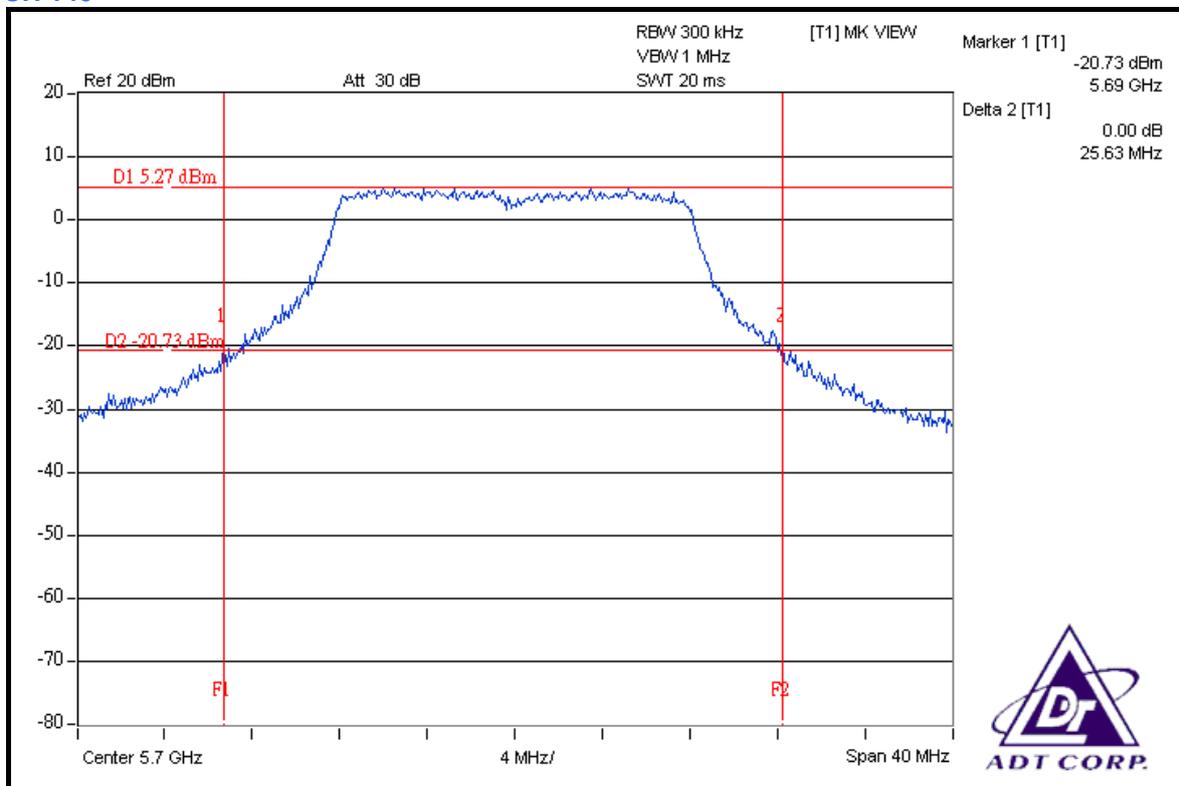




CH 120



CH 140



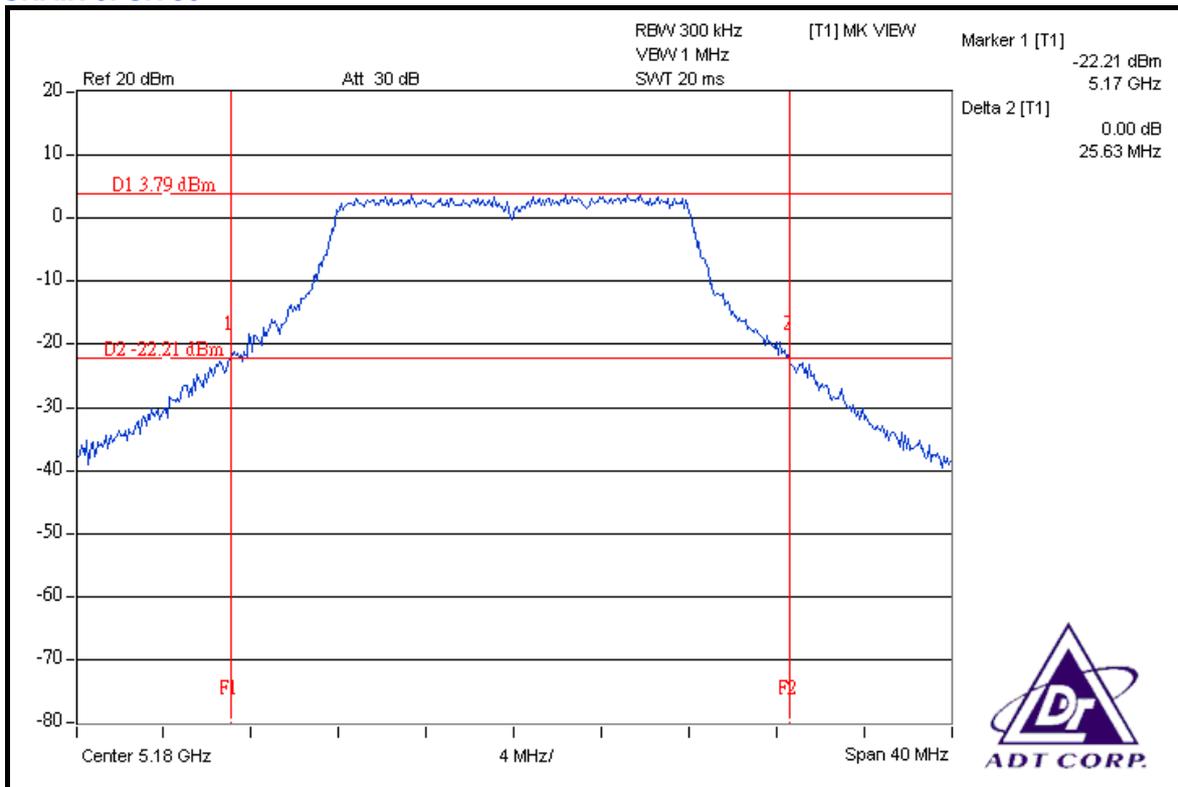


DRAFT 802.11n (20MHz) OFDM MODULATION

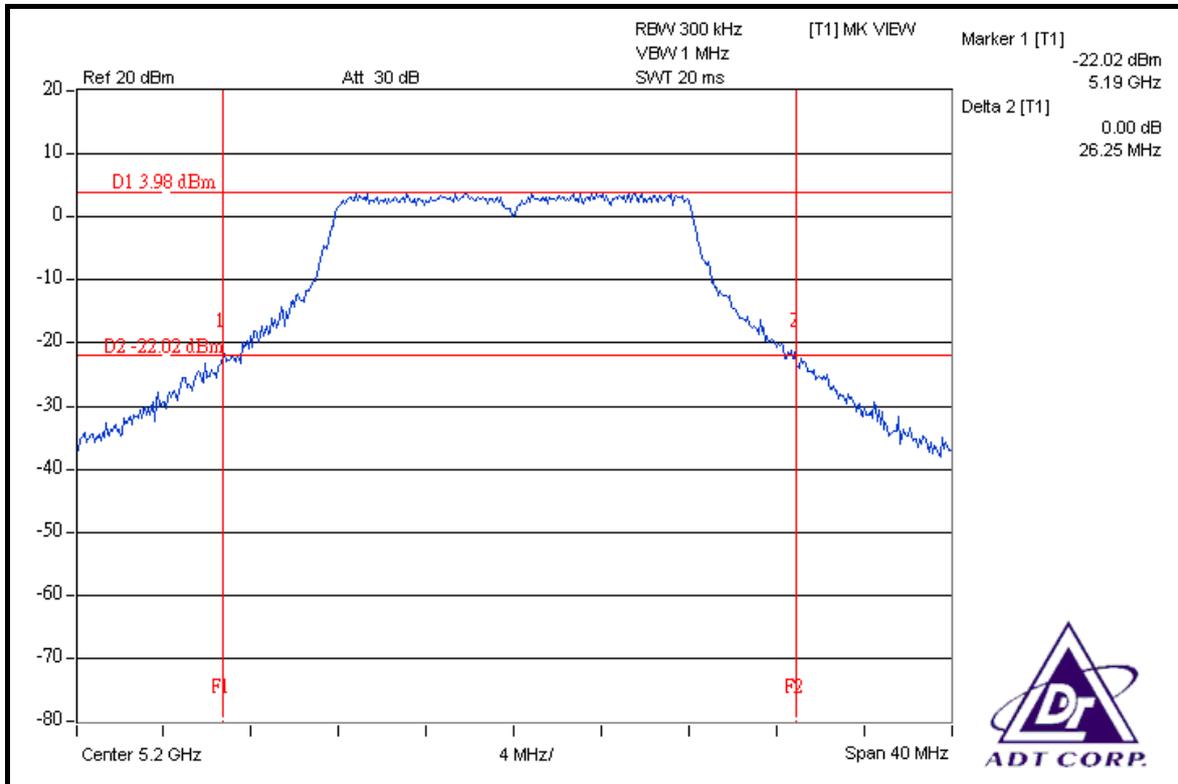
MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
36	5180	25.63	24.65	PASS
40	5200	26.25	25.02	PASS
48	5240	26.00	25.55	PASS
52	5260	26.53	26.42	PASS
60	5300	25.90	25.77	PASS
64	5320	25.68	26.88	PASS
100	5500	26.11	26.51	PASS
120	5600	25.49	26.32	PASS
140	5700	26.57	26.50	PASS

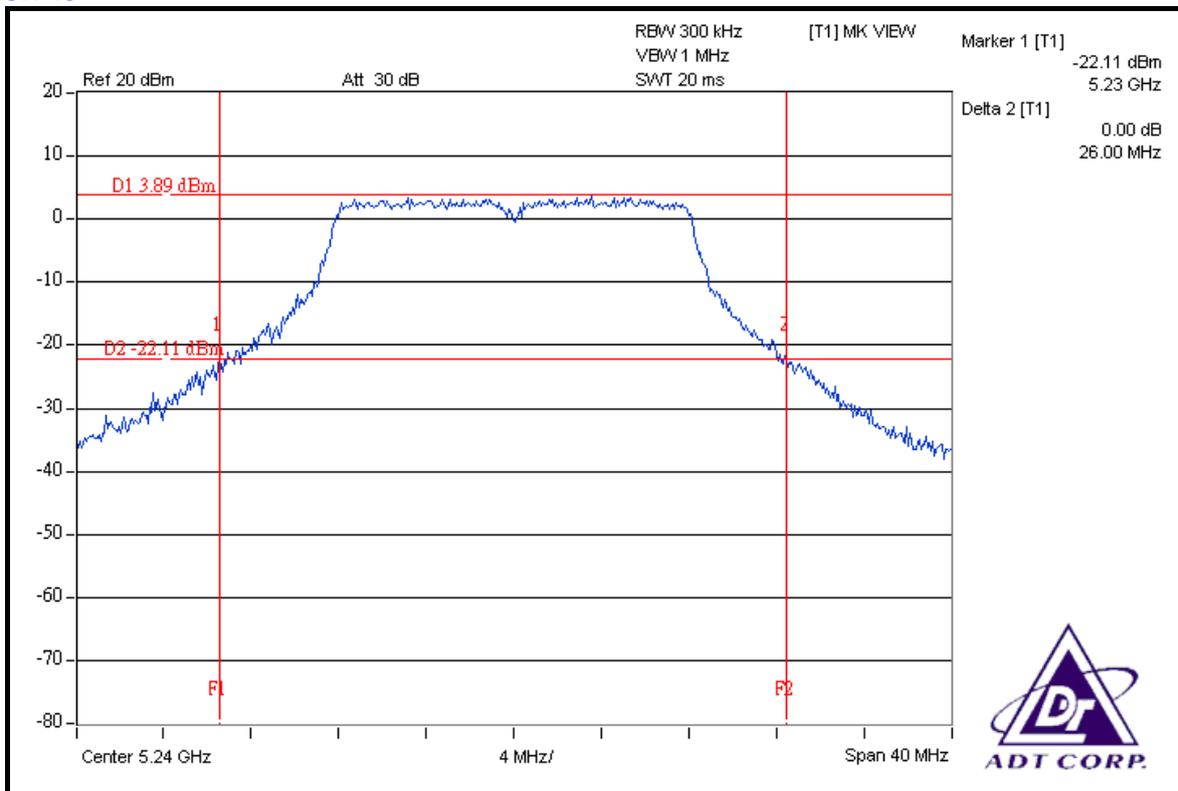
CHAIN 0: CH 36



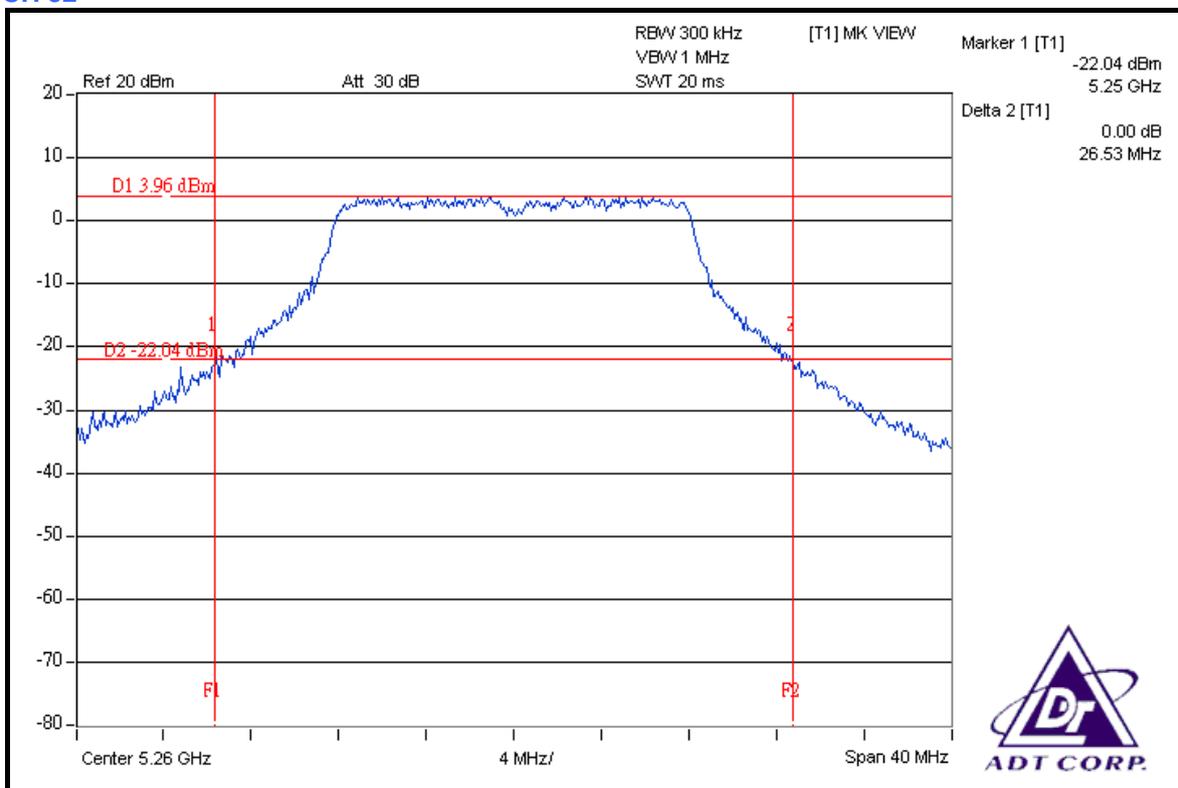
CH 40



CH 48

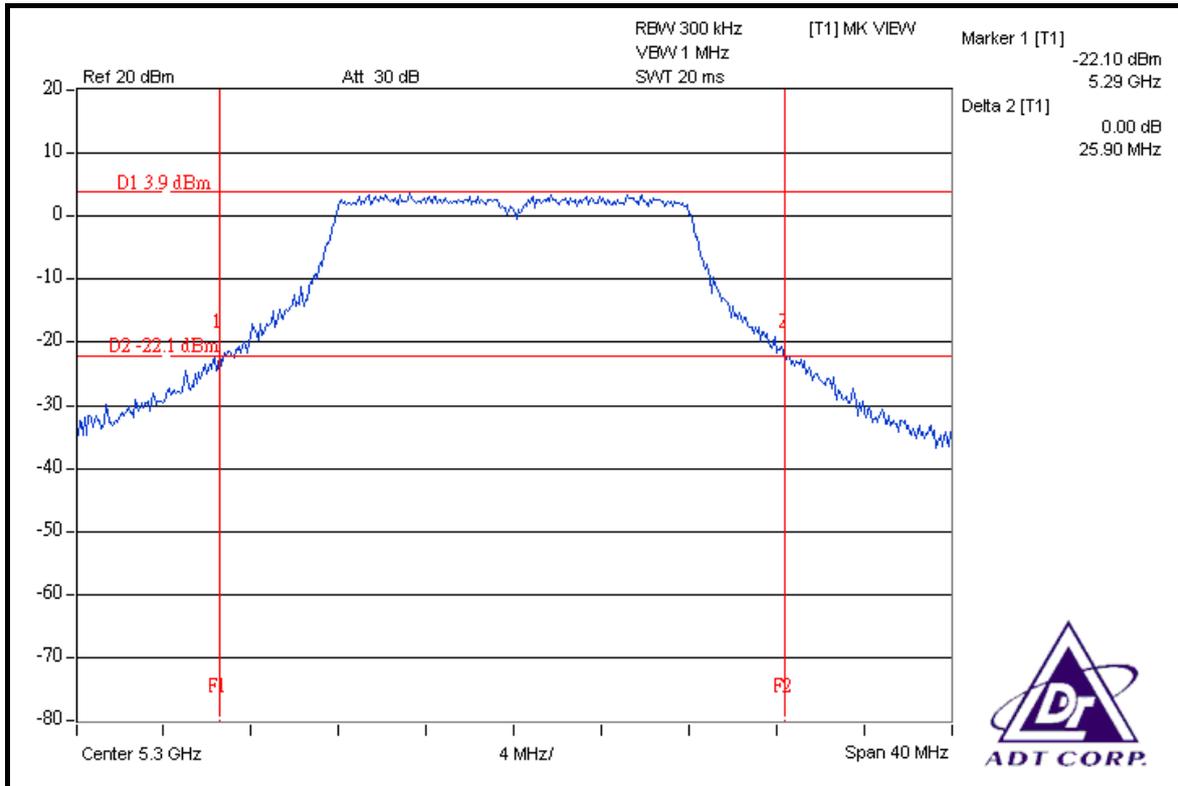


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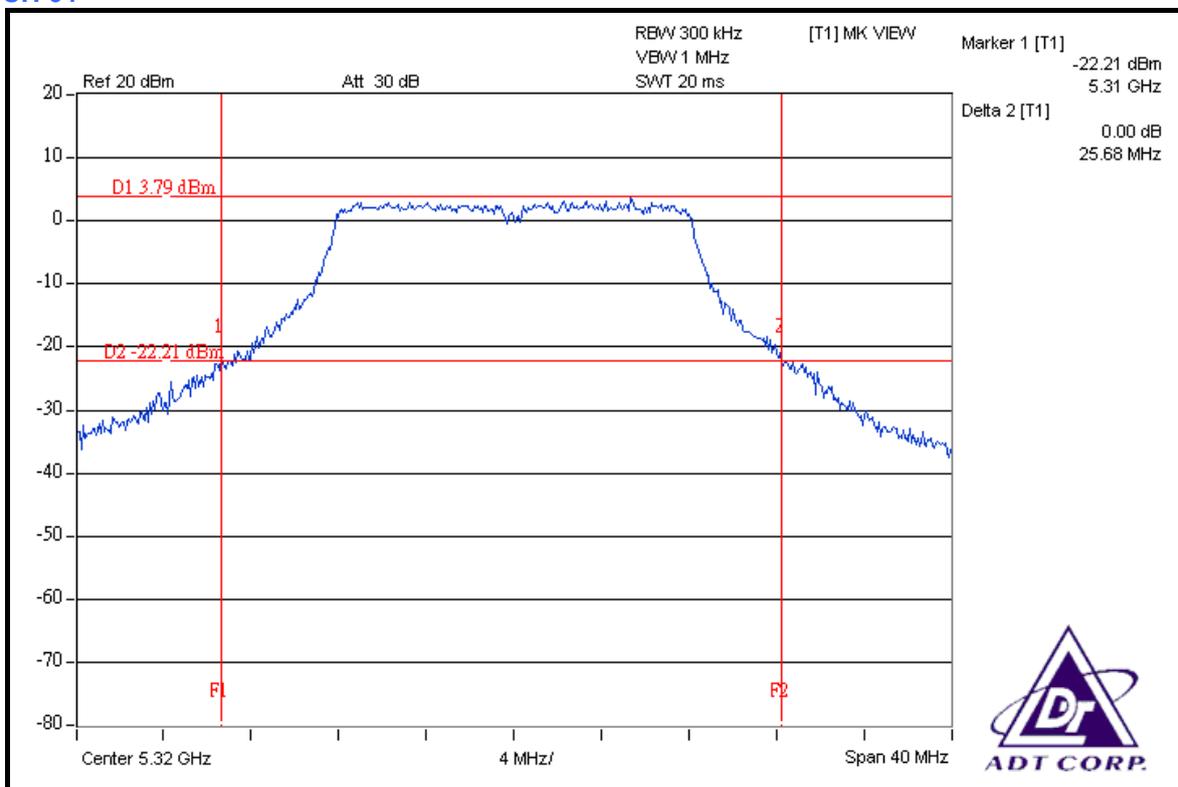




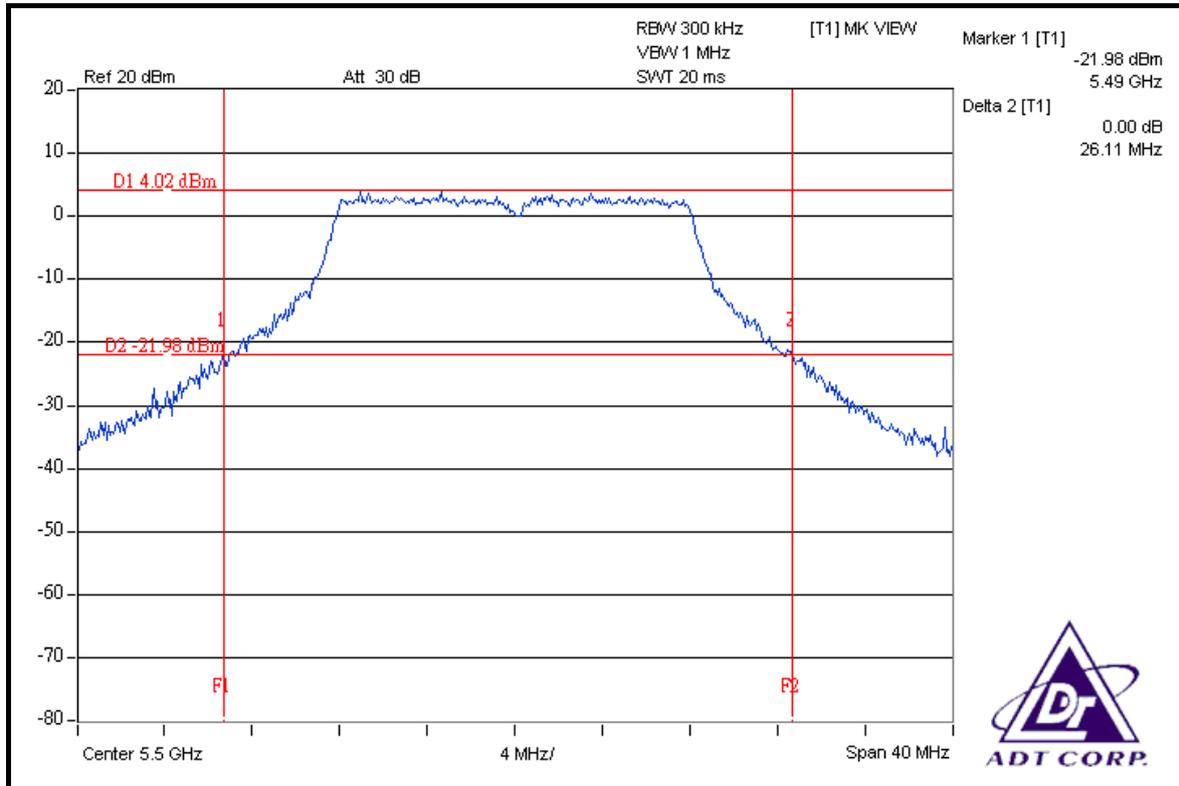
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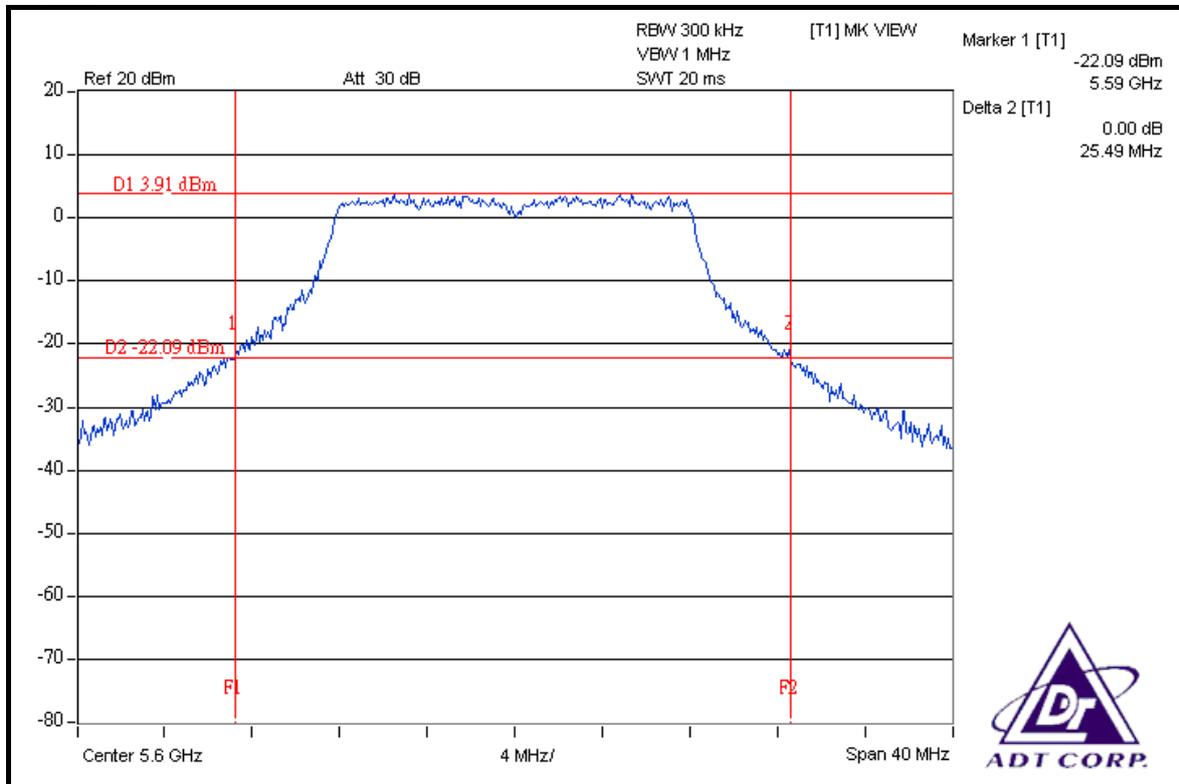
CH 64



CH 100

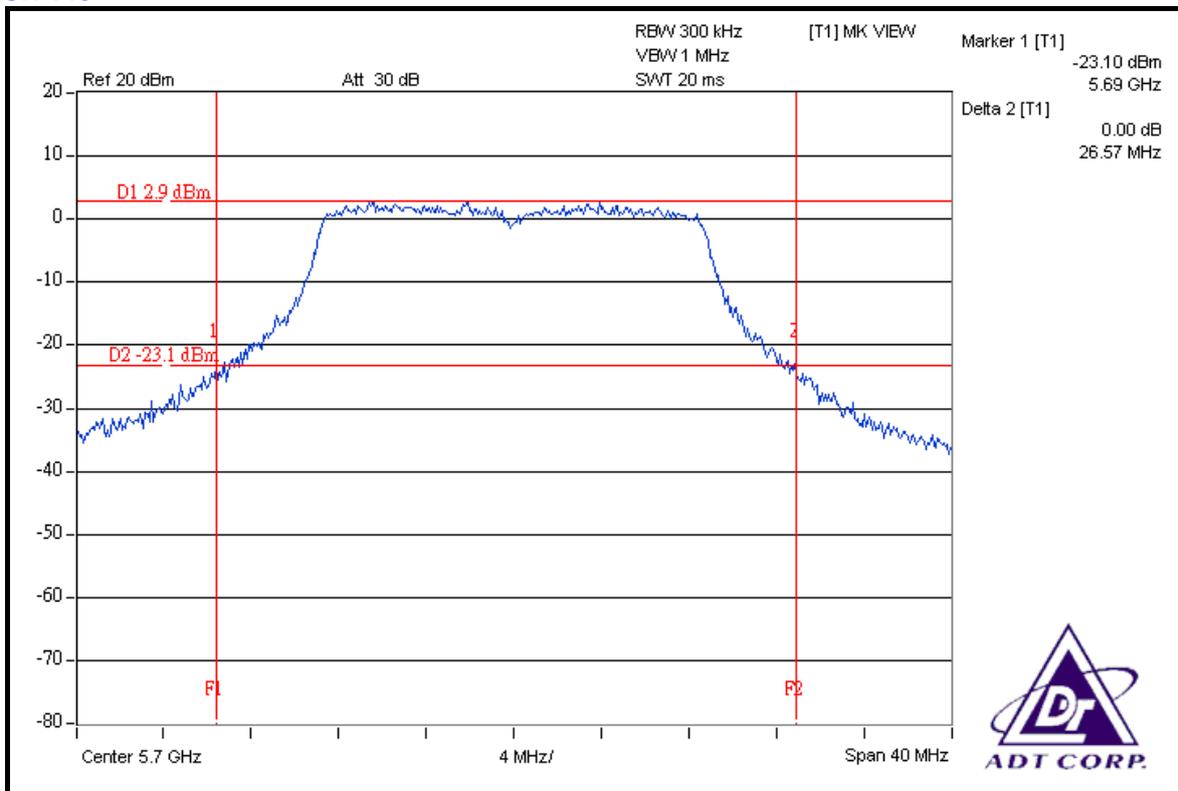


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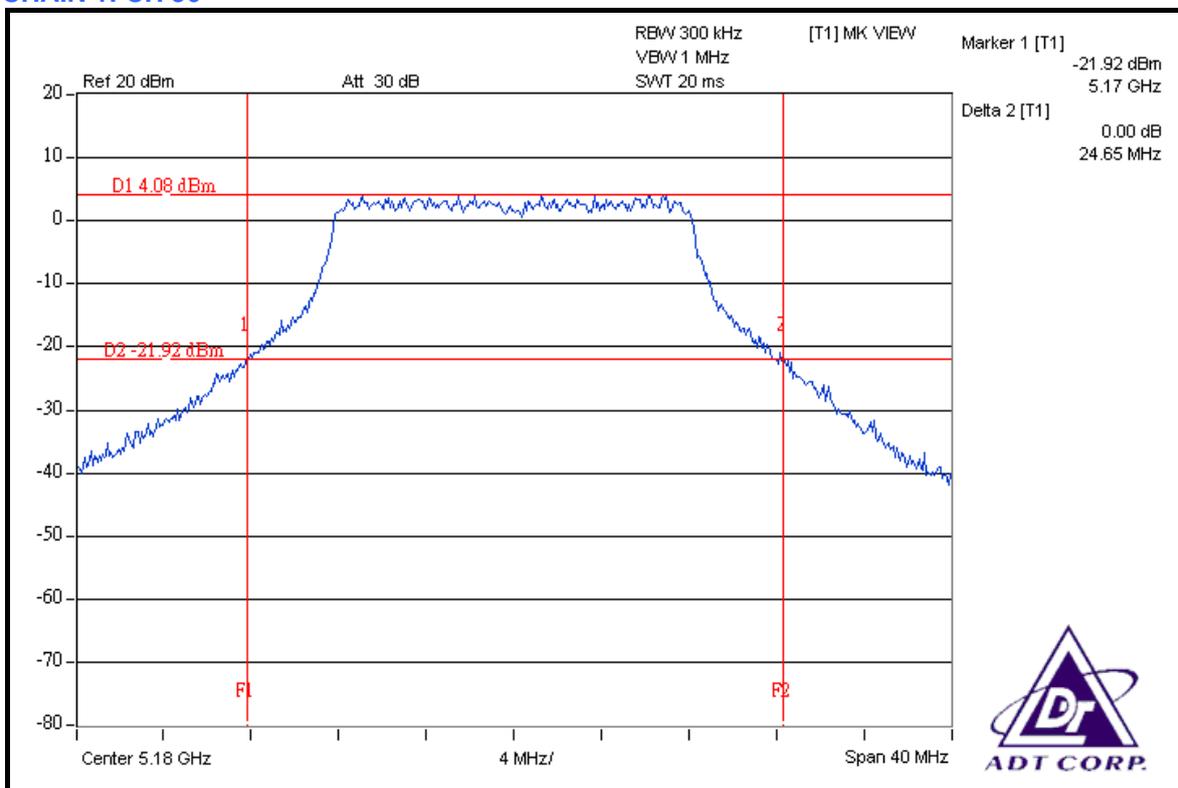




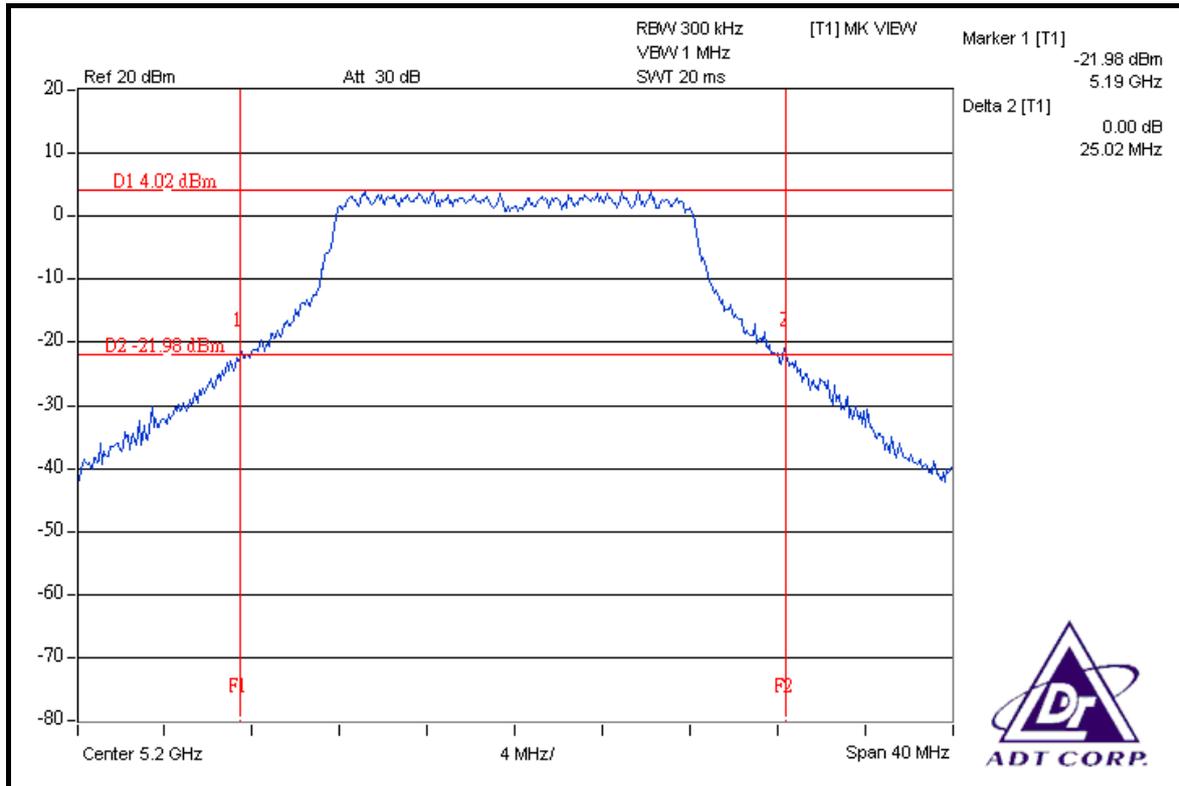
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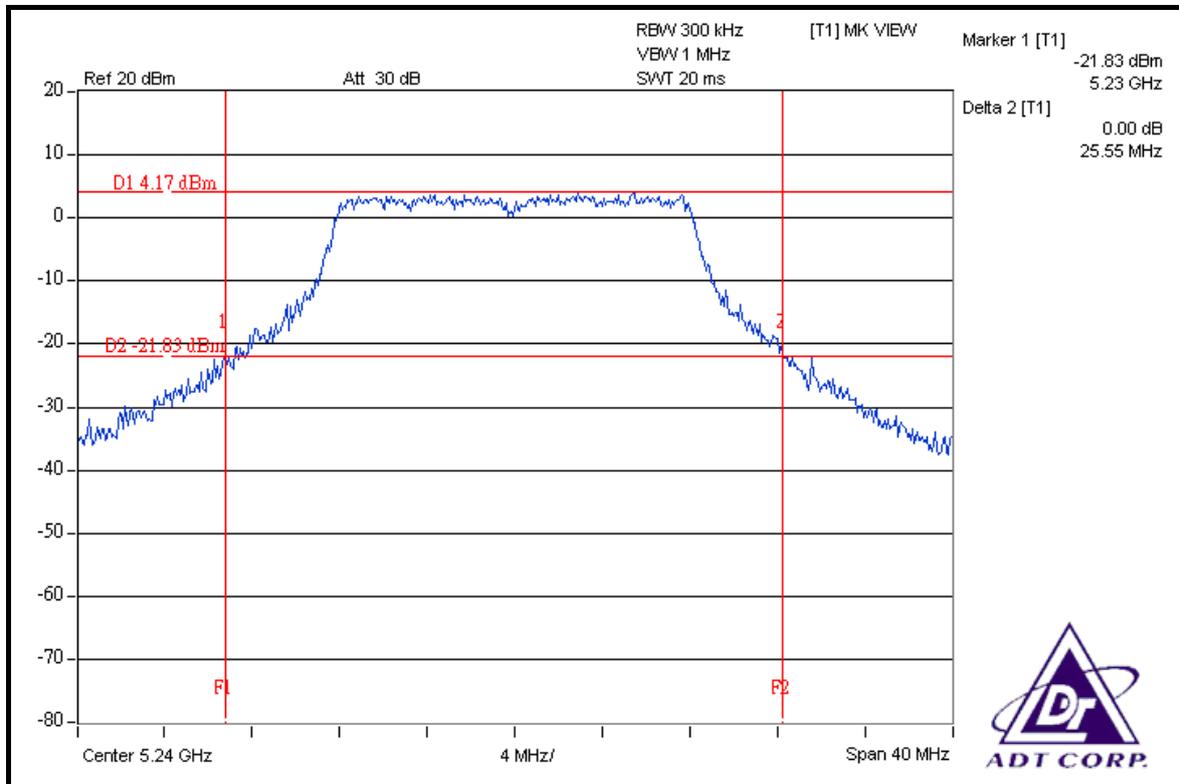
CHAIN 1: CH 36



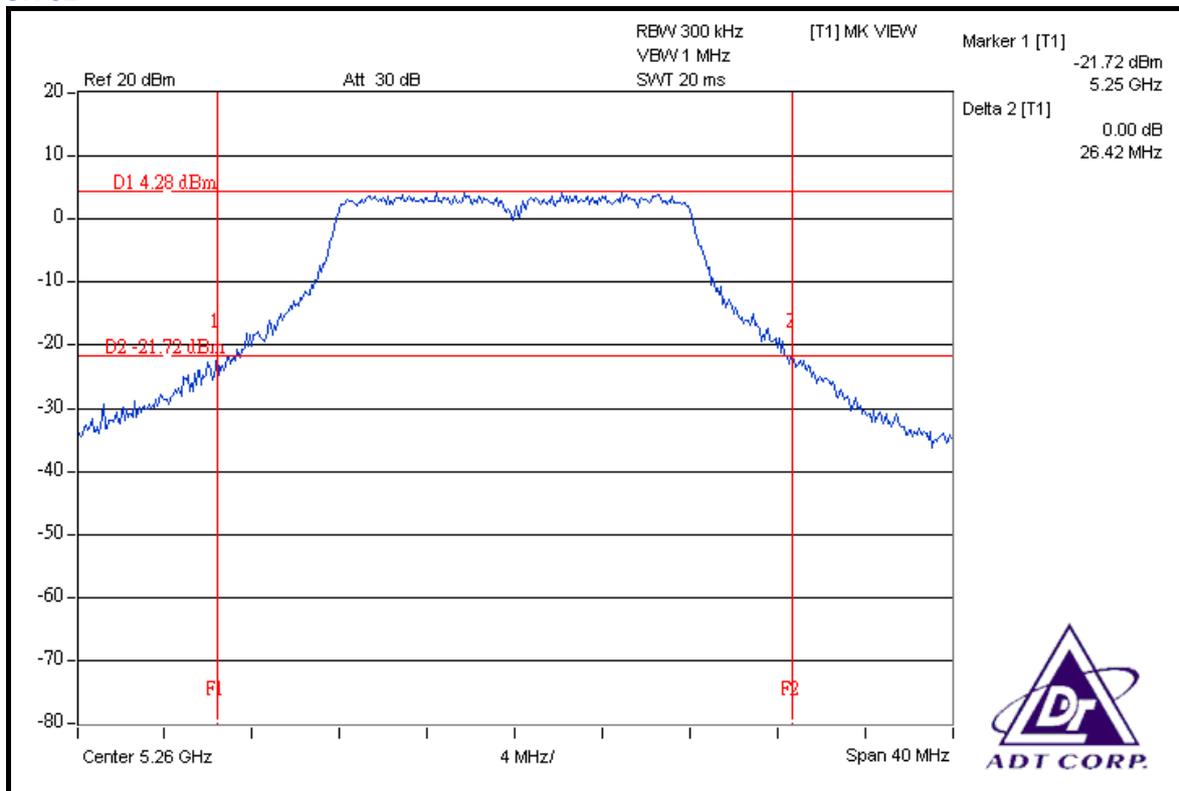
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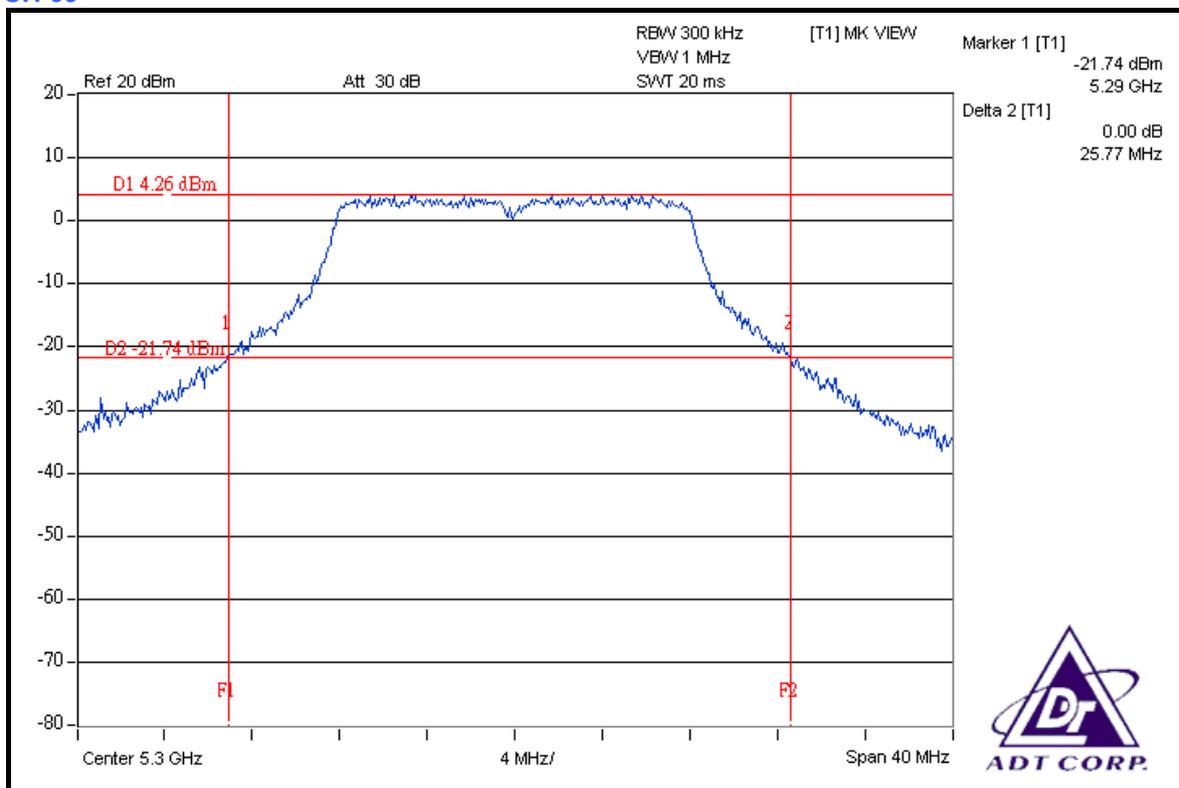
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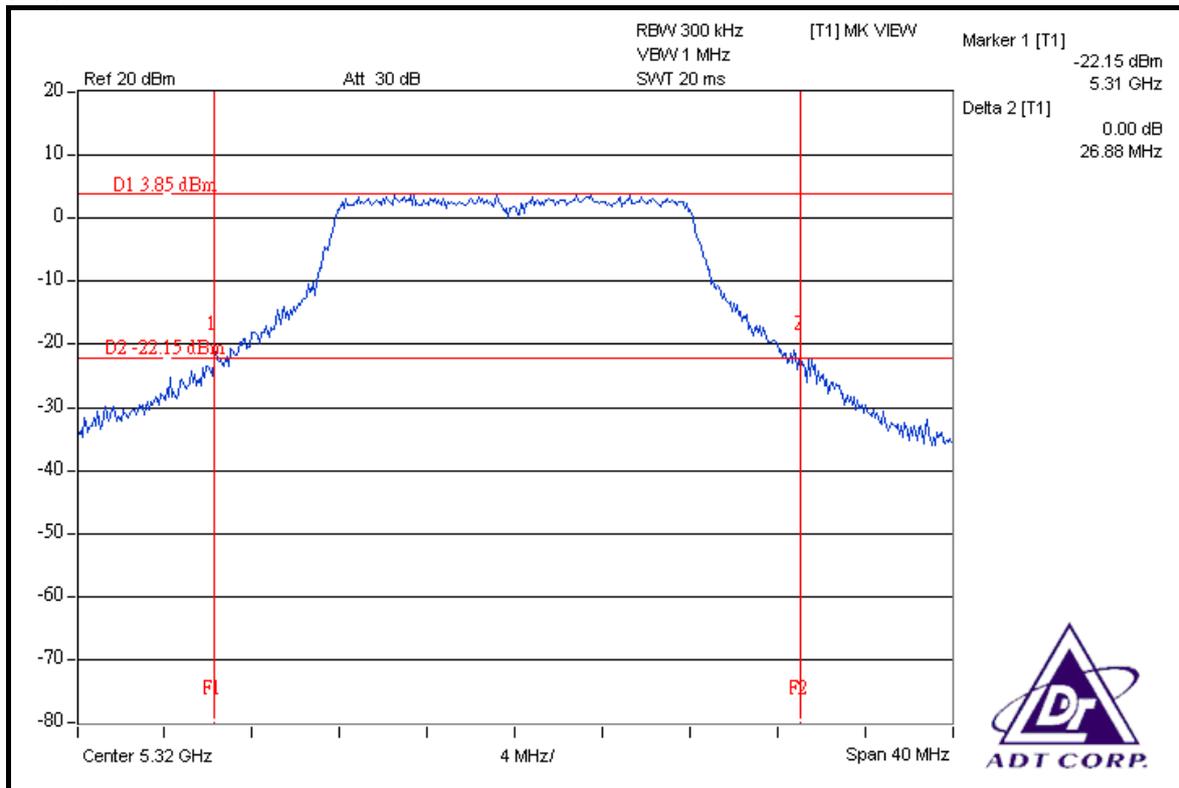
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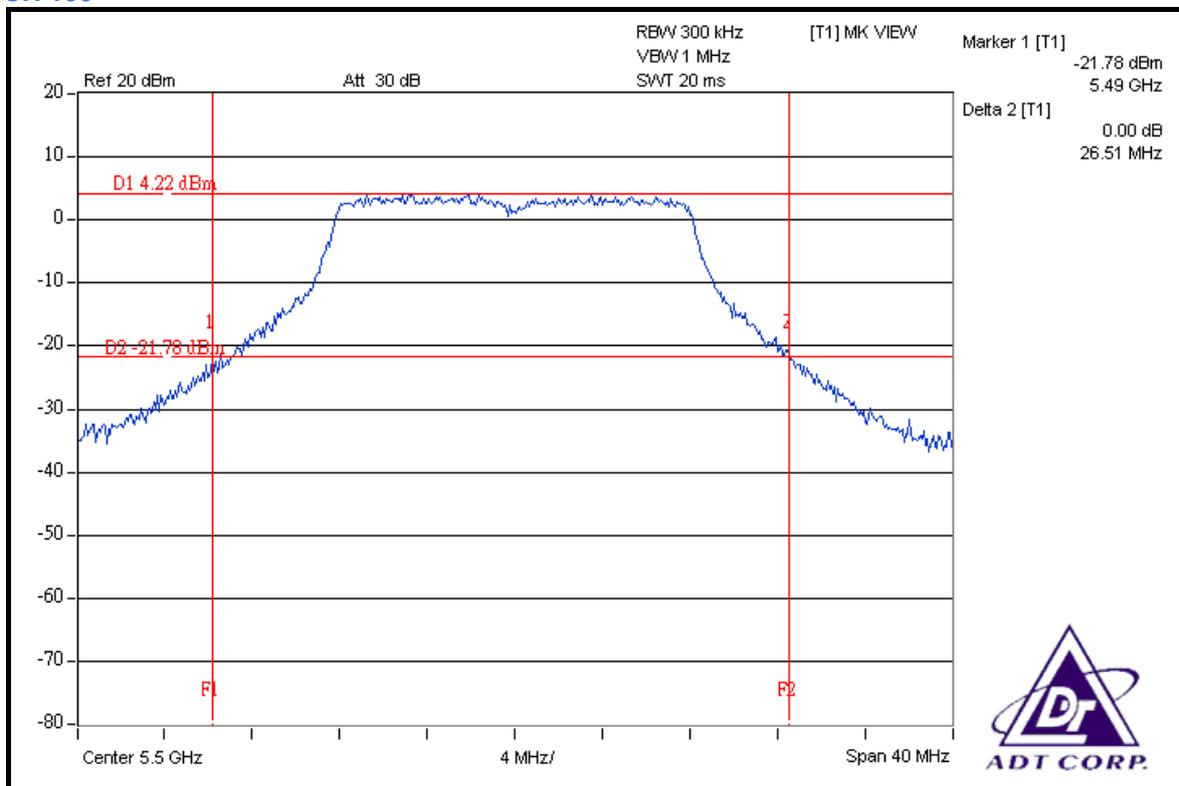
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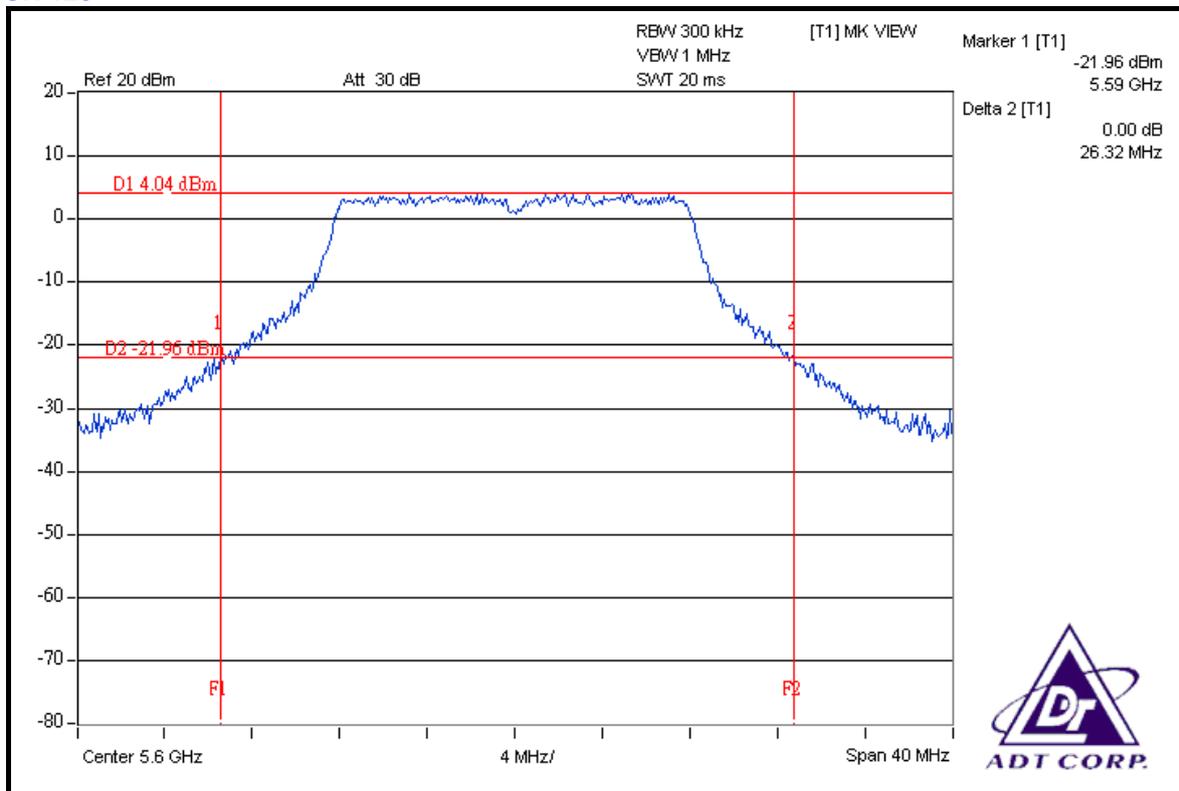
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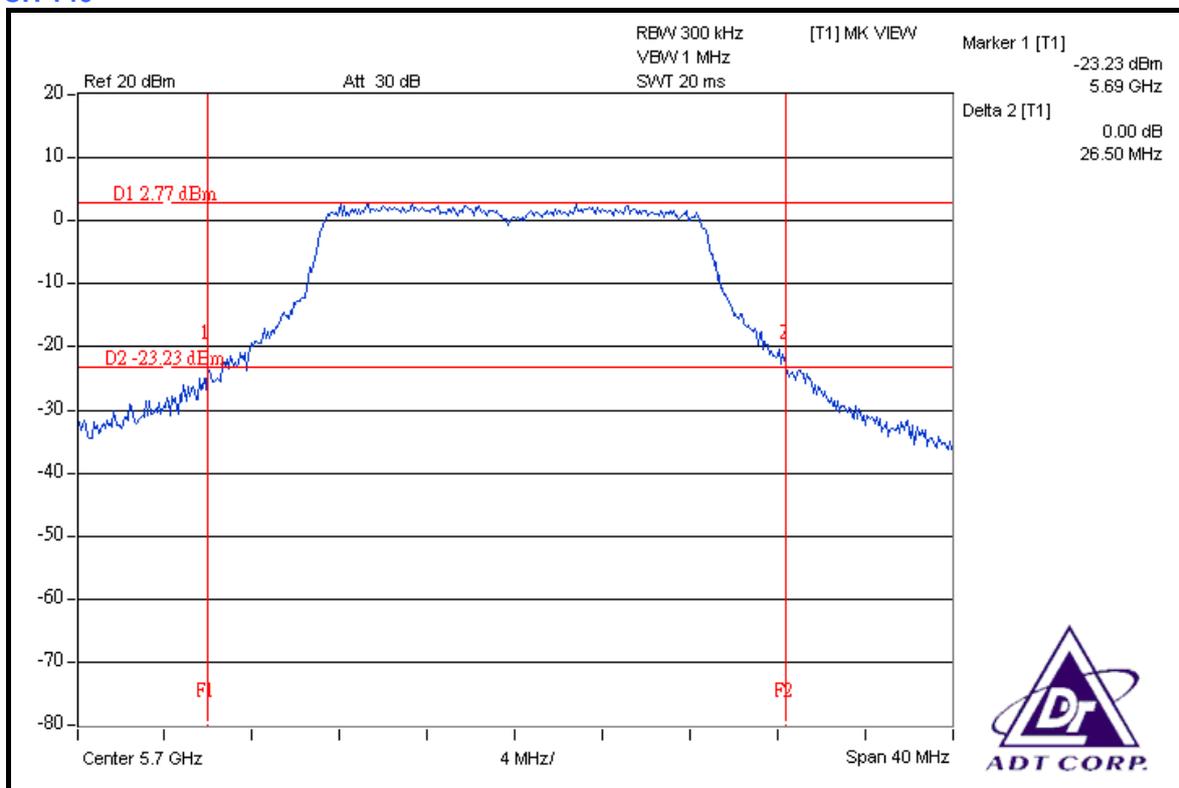
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CH 120



CH 140



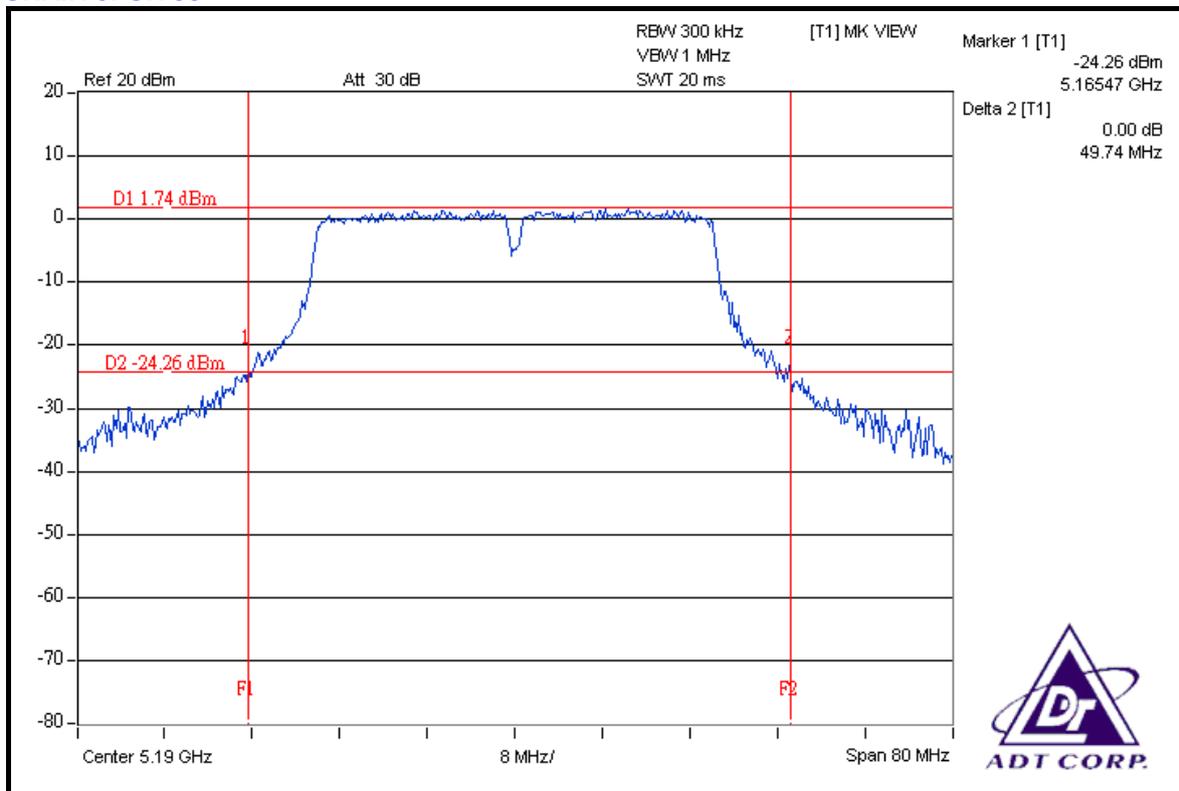


DRAFT 802.11n (40MHz) OFDM MODULATION

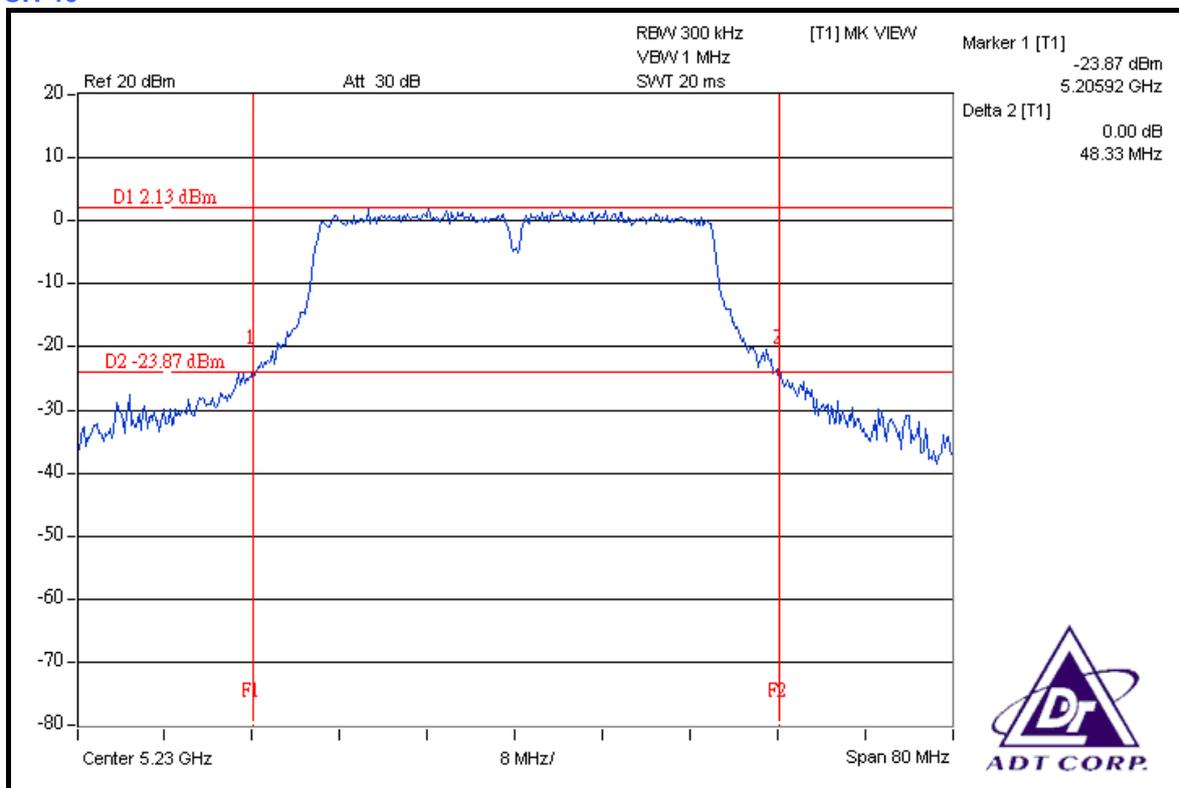
MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	26dBc OCCUPIED BANDWIDTH (MHz)		PASS / FAIL
		CHAIN 0	CHAIN 1	
38	5190	49.74	48.71	PASS
46	5230	48.33	49.12	PASS
54	5270	49.03	48.08	PASS
62	5310	49.65	49.70	PASS
102	5510	50.16	48.21	PASS
118	5590	48.44	49.37	PASS
134	5670	44.79	45.49	PASS

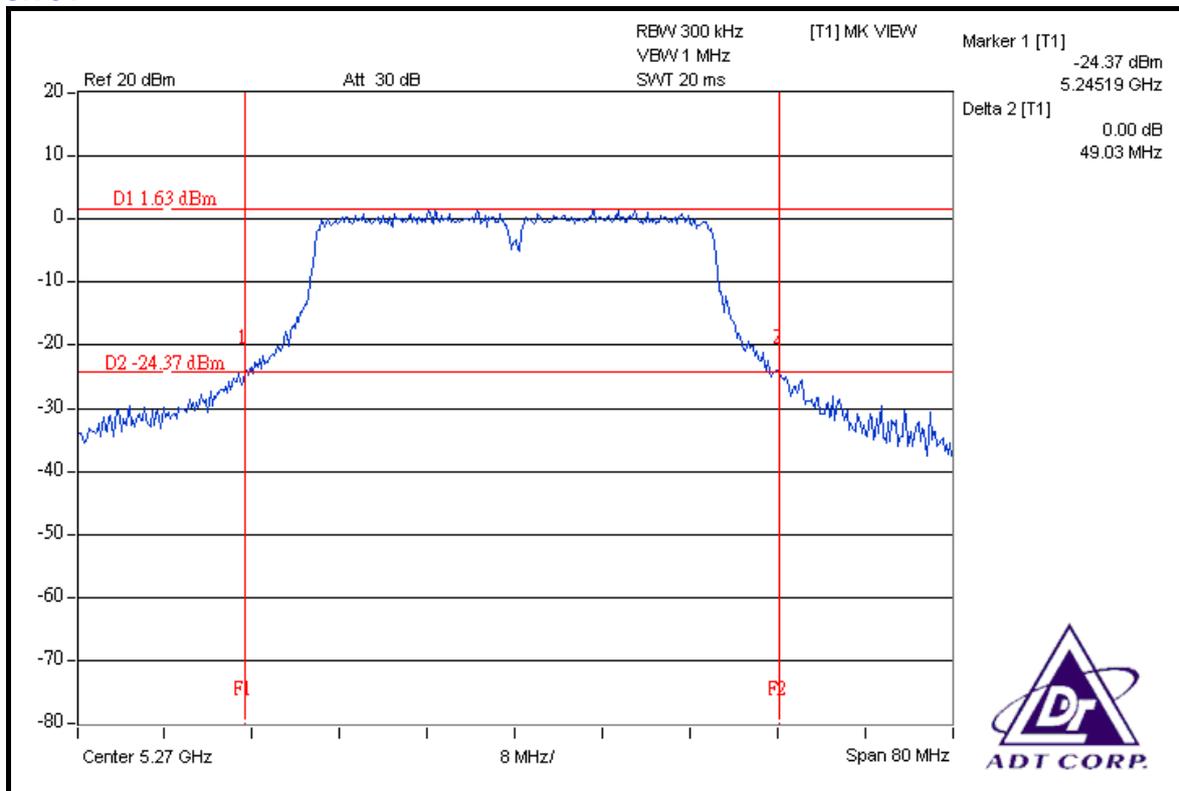
CHAIN 0: CH 38



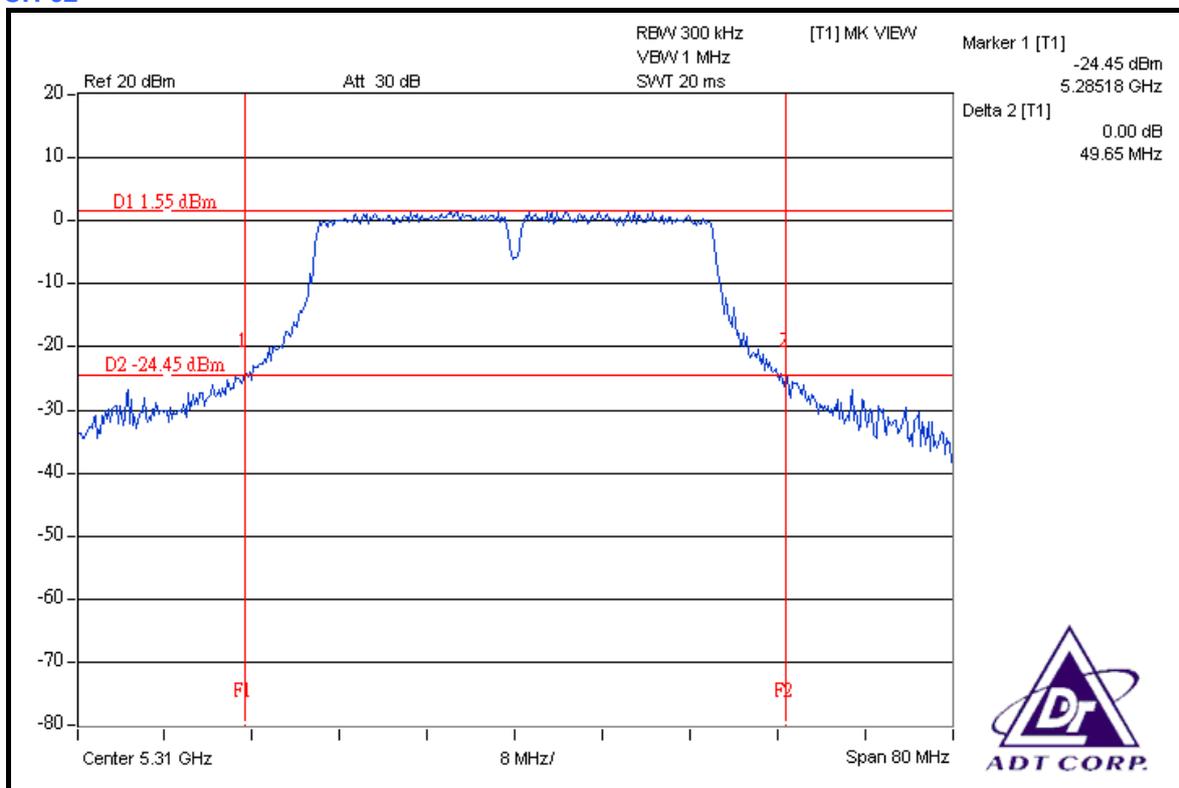
CH 46



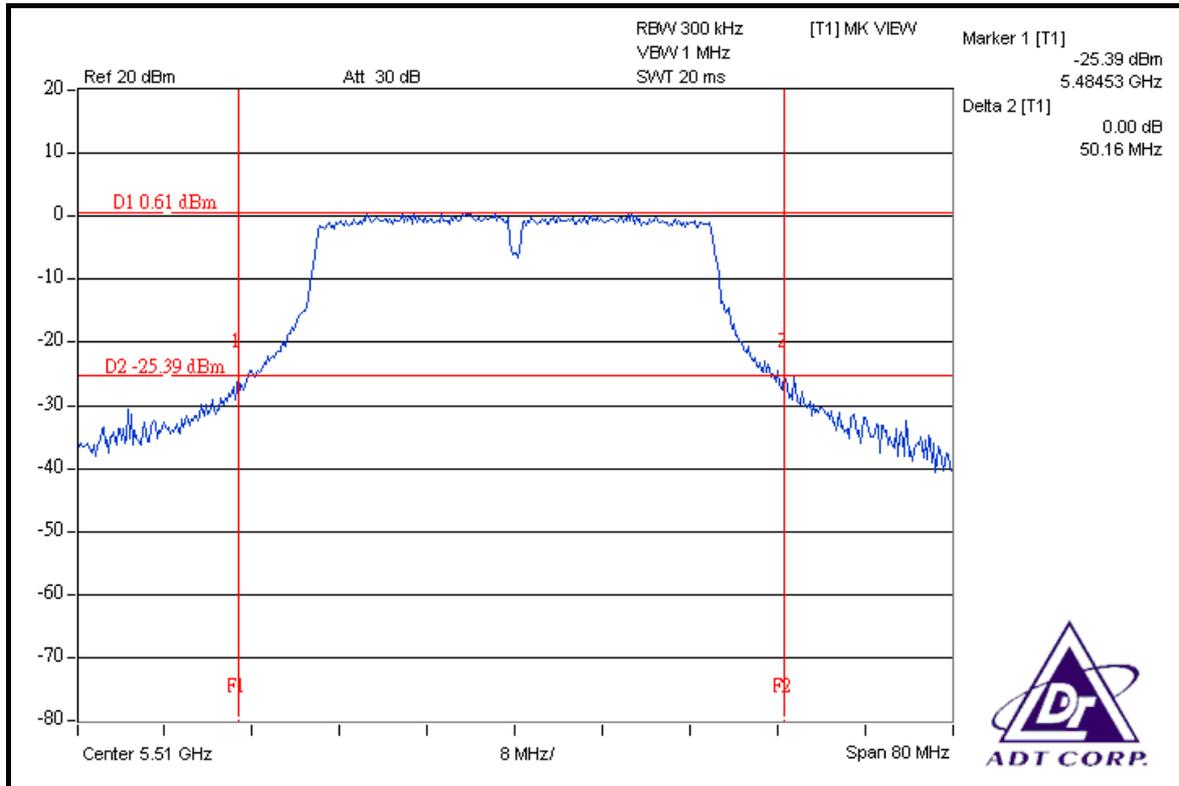
CH 54



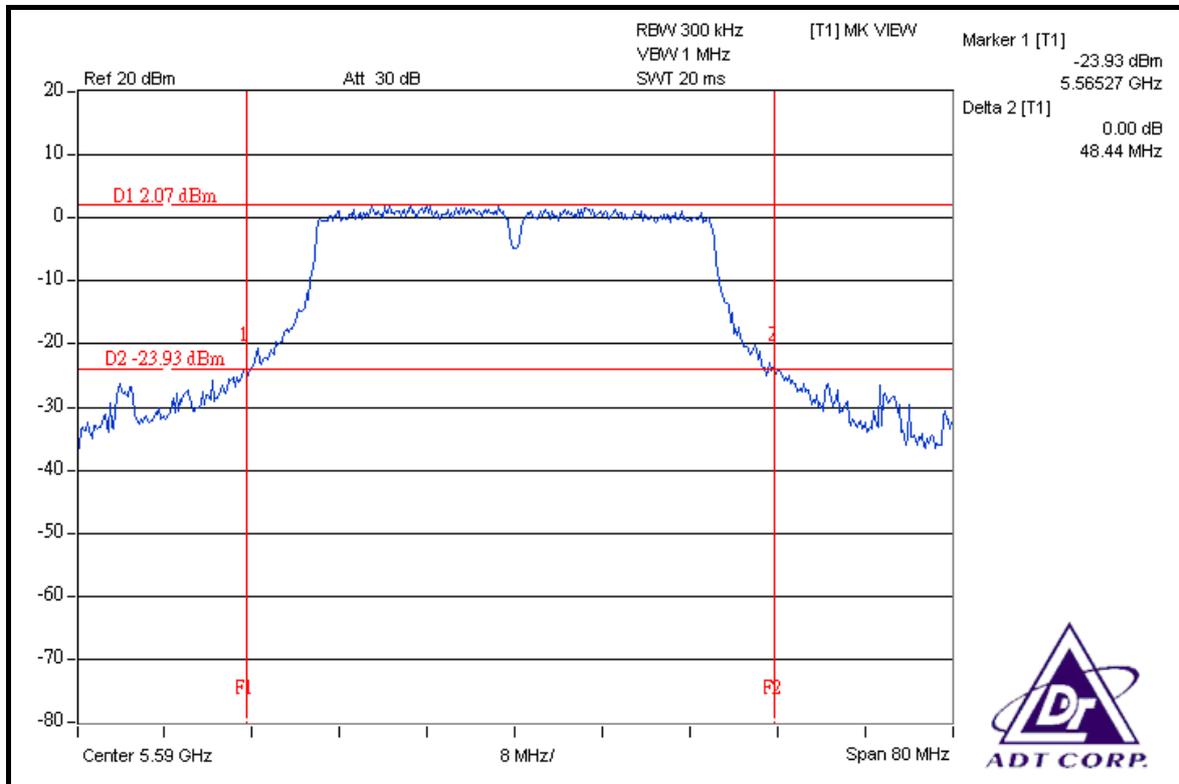
CH 62



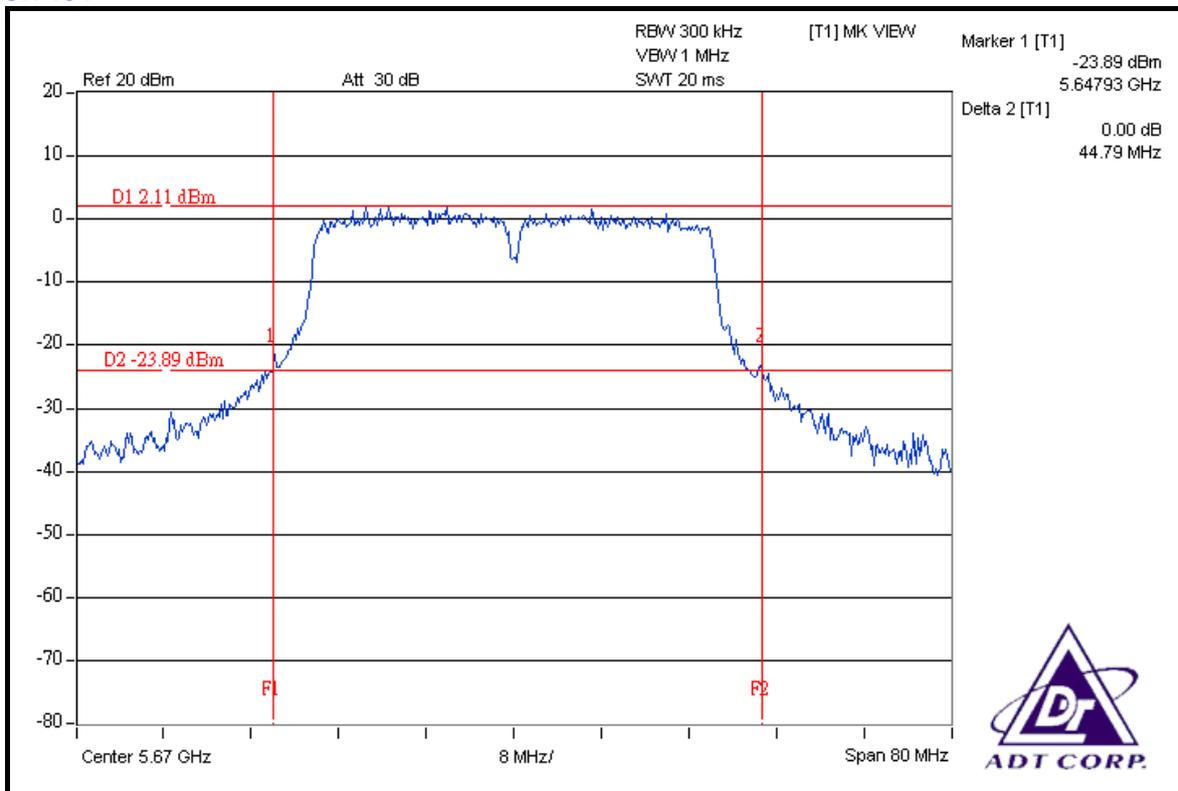
CH 102



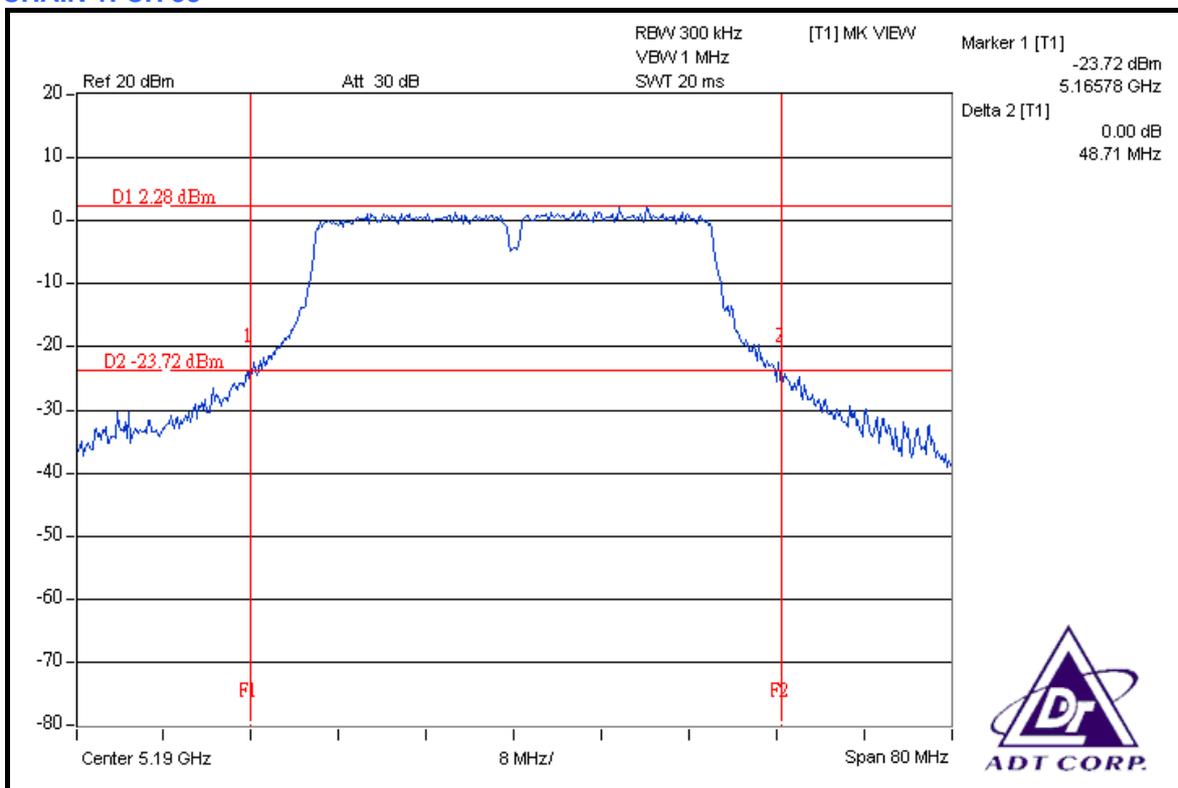
CH 118



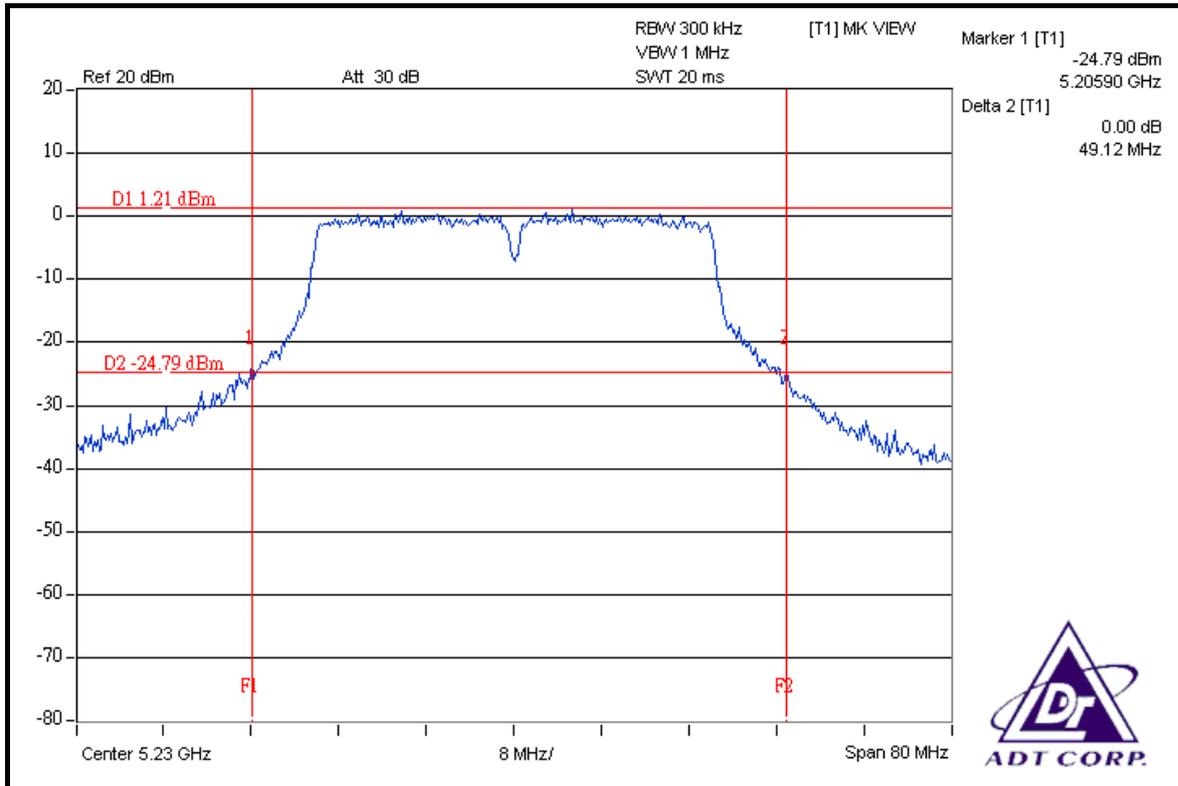
CH 134



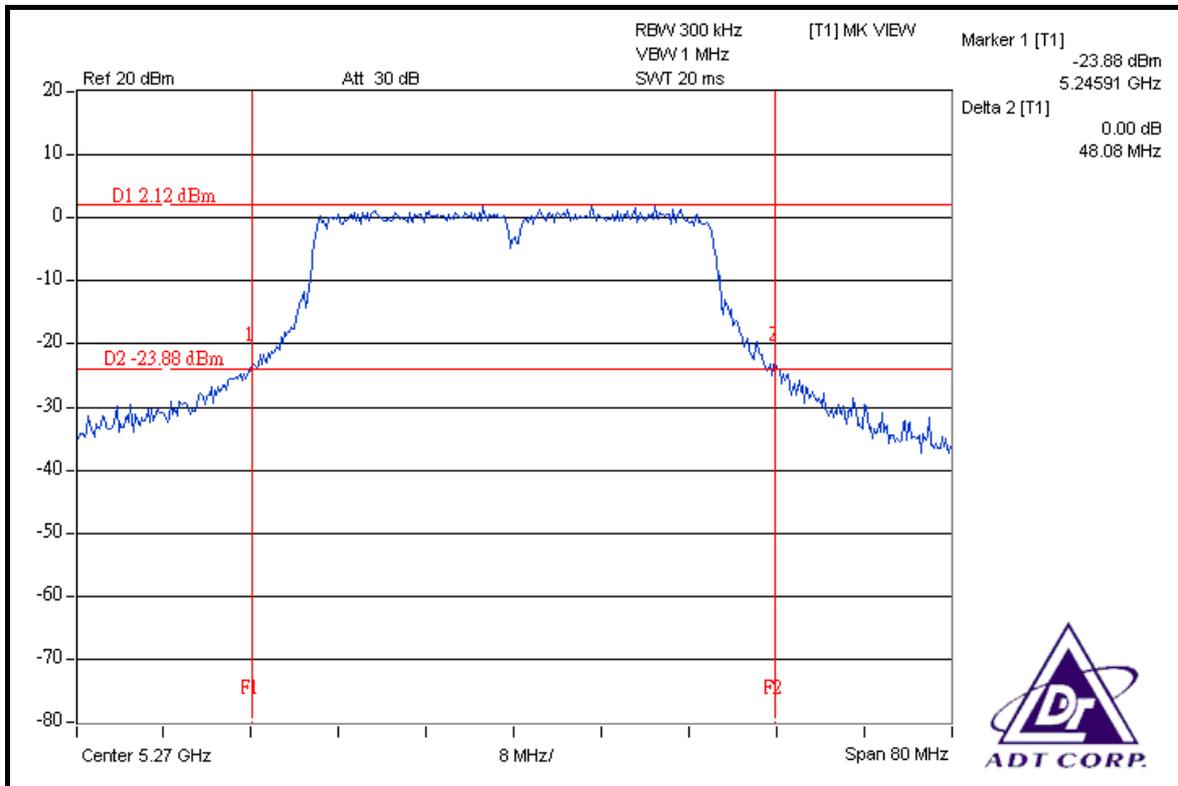
CHAIN 1: CH 38



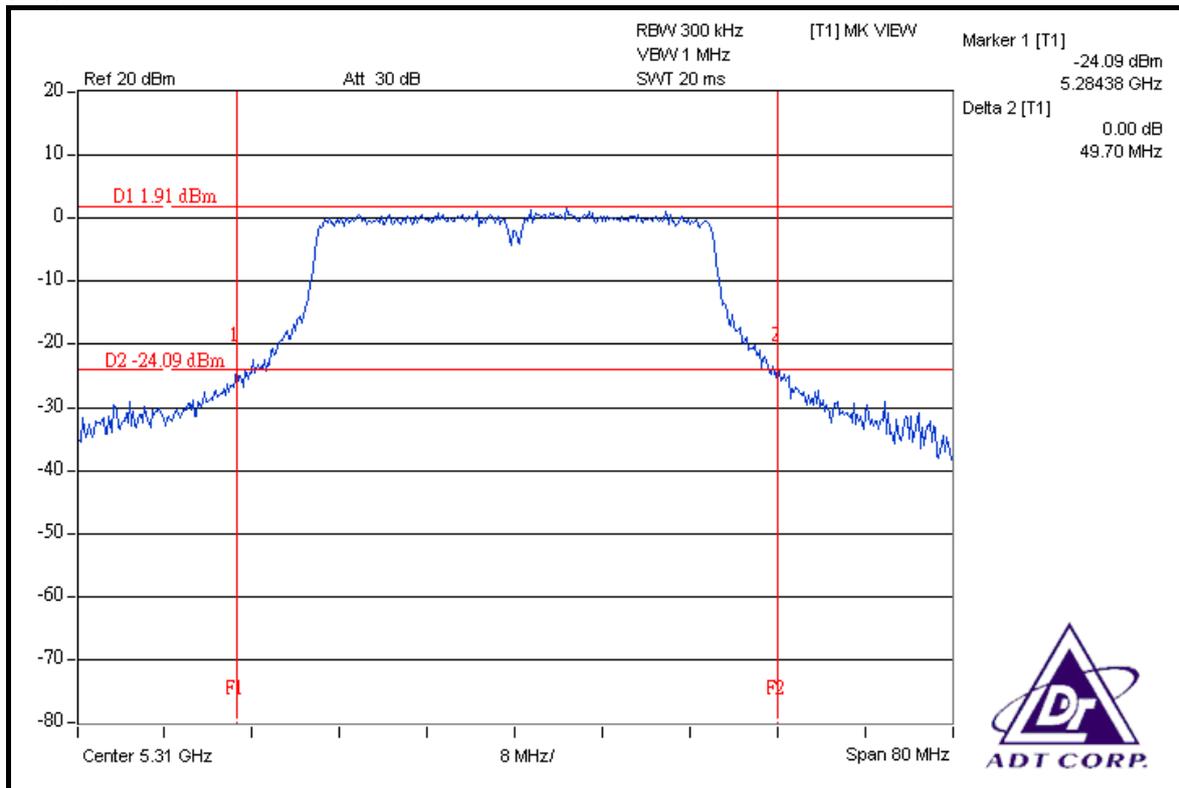
CH 46



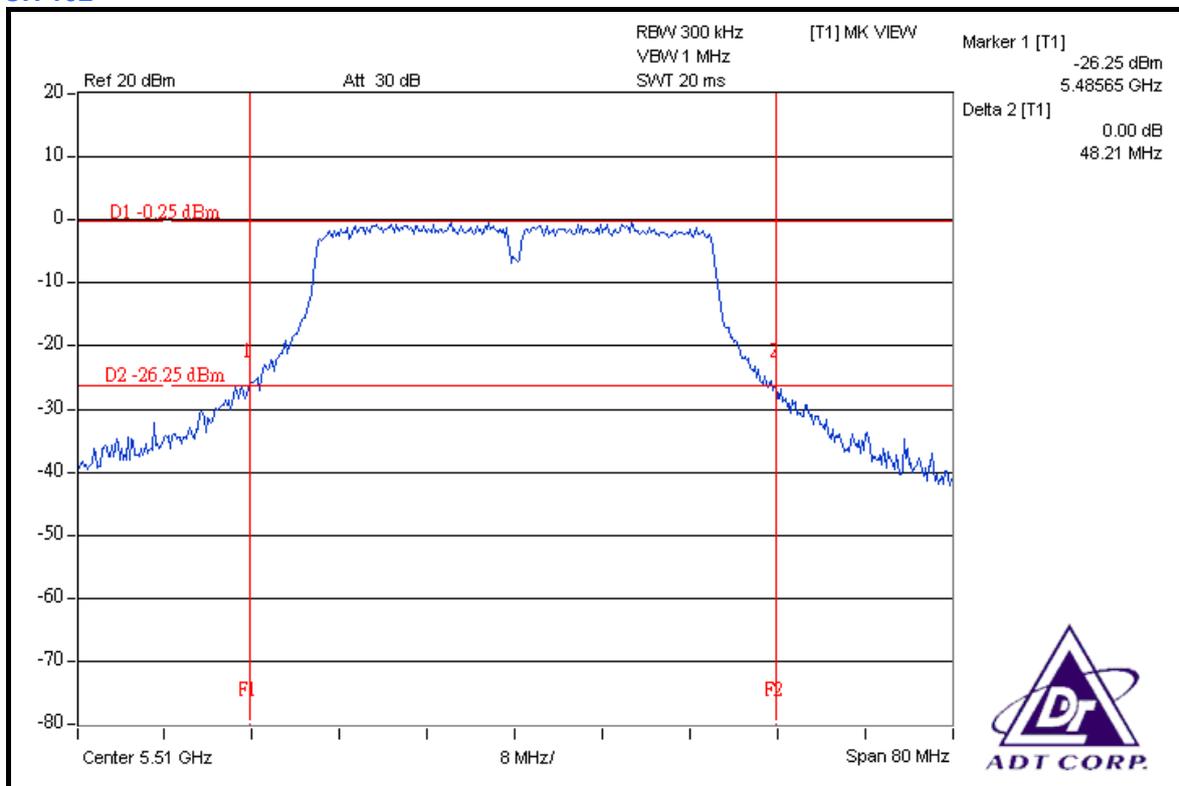
CH 54



CH 62

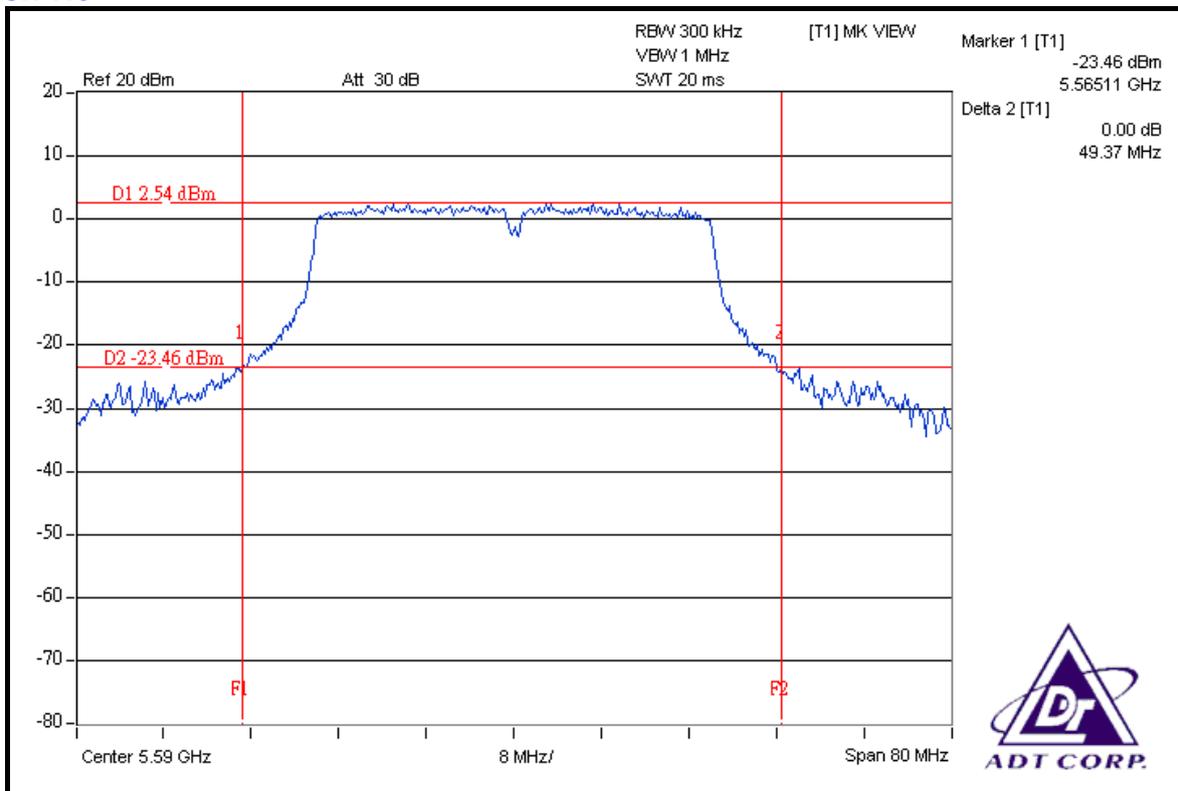


CH 102

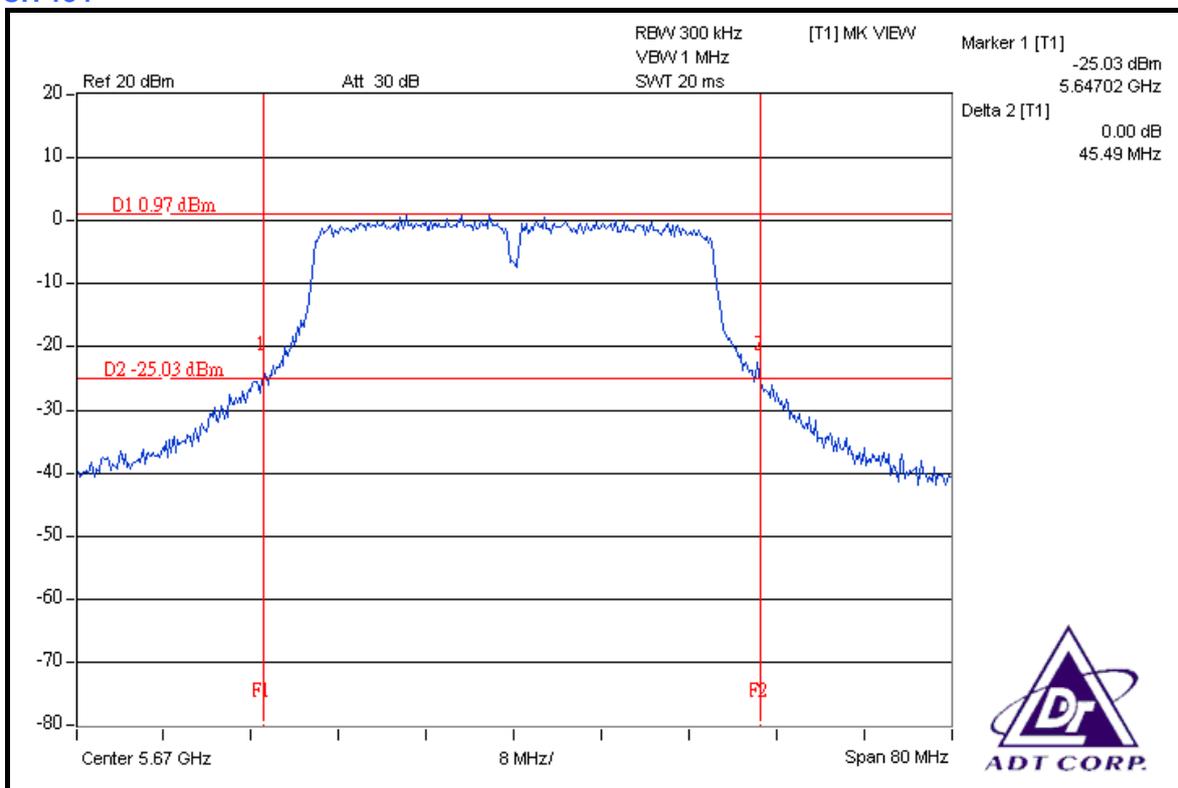




CH 118



CH 134





4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	13dB
5.250 ~ 5.350GHz	13dB
5.470 ~ 5.725GHz	13dB

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100041	Apr. 22, 2008	Apr. 21, 2009

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

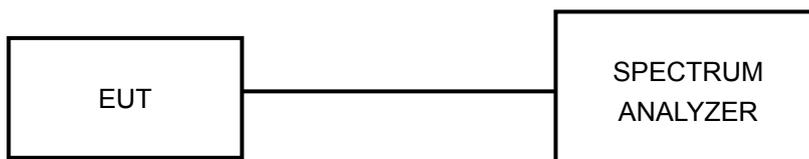
4.4.3 TEST PROCEDURE

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set the spectrum bandwidth span to view the entire spectrum.
- c. Using peak detector and Max-hold function for Trace 1 (RB = 1MHz, VB = 3MHz) and 2 (RB = 1MHz, VB = 300 kHz).
- d. The differences between Trace1 and Trace 2 in any 1MHz band at f1 to f2 range were recorded and showed to another trace.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.



4.4.7 TEST RESULTS

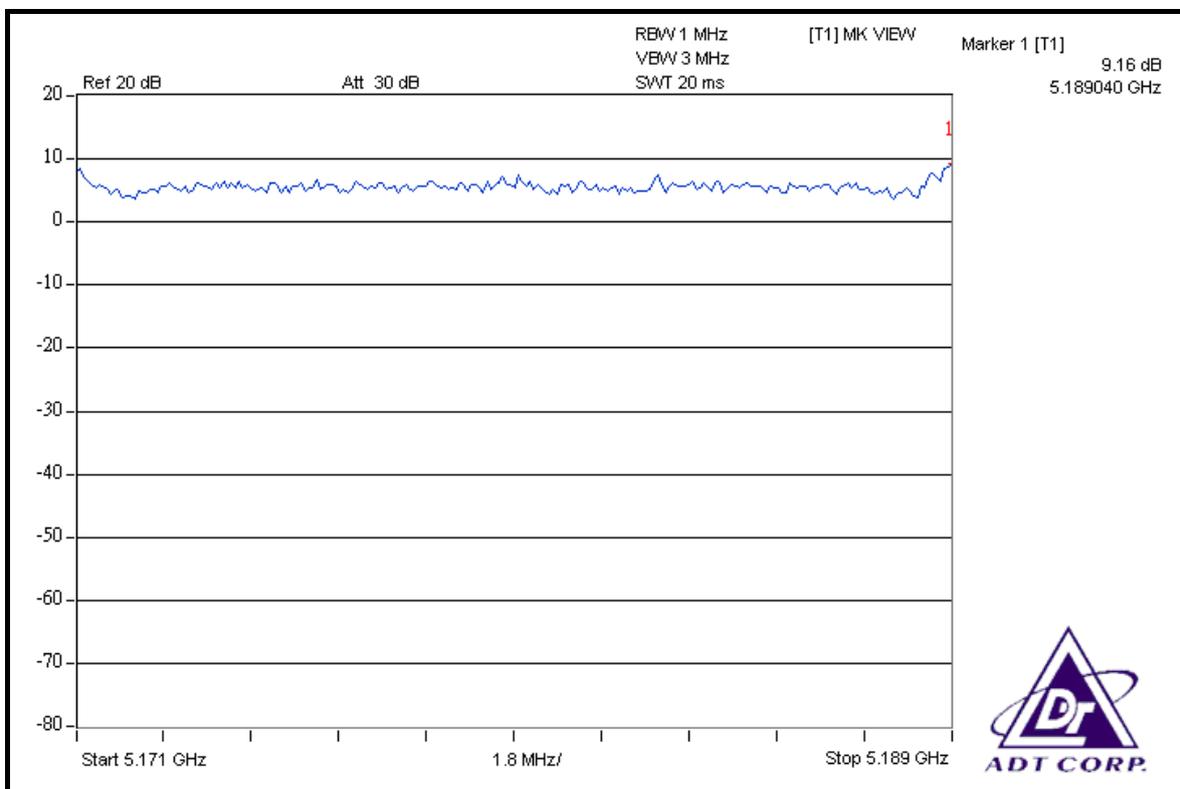
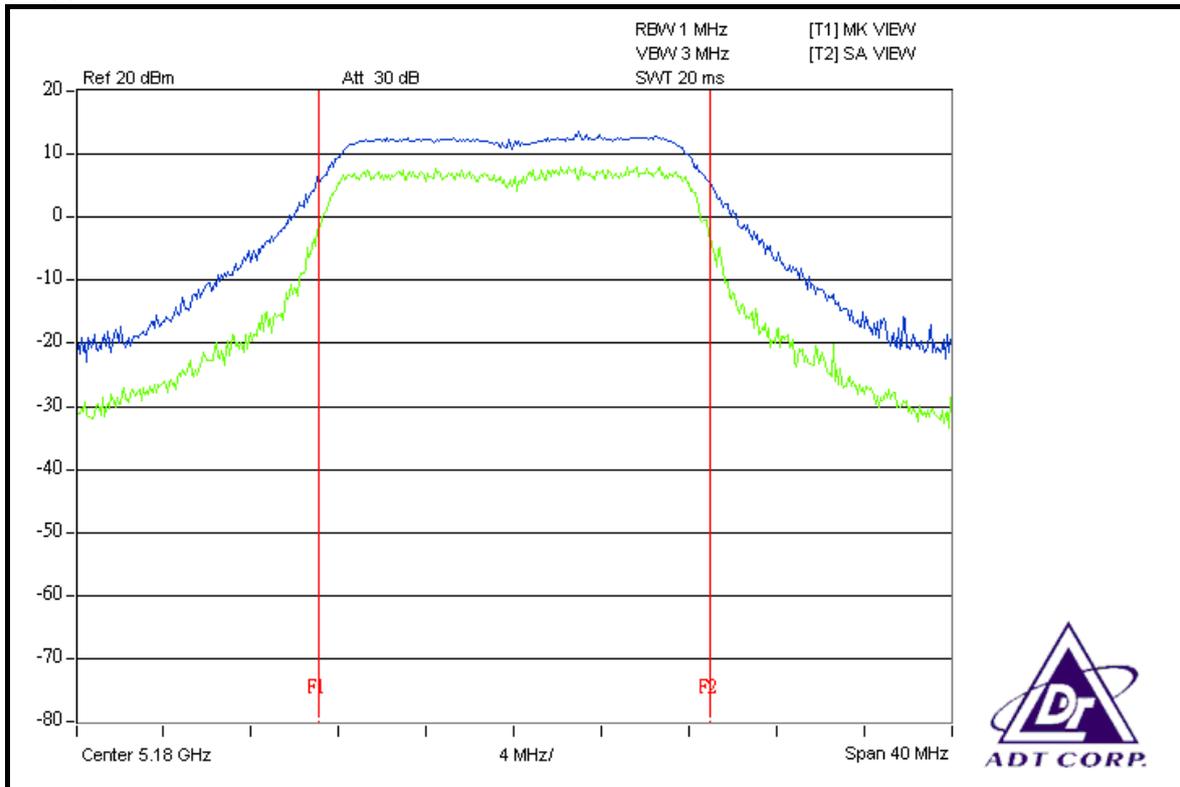
802.11a OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK TO AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
36	5180	9.16	13	PASS
40	5200	9.49	13	PASS
48	5240	8.55	13	PASS
52	5260	9.13	13	PASS
60	5300	8.30	13	PASS
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100	5500	8.26	13	PASS
120	5600	9.64	13	PASS
140	5700	9.67	13	PASS

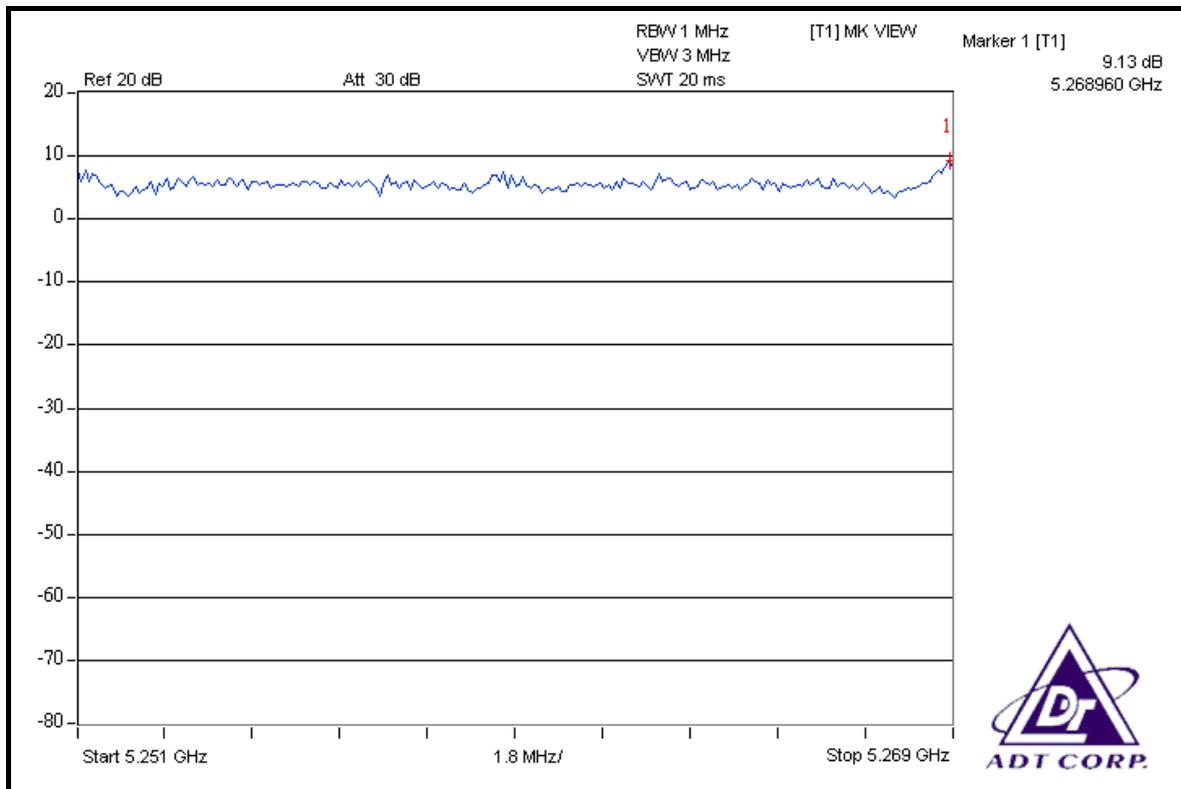
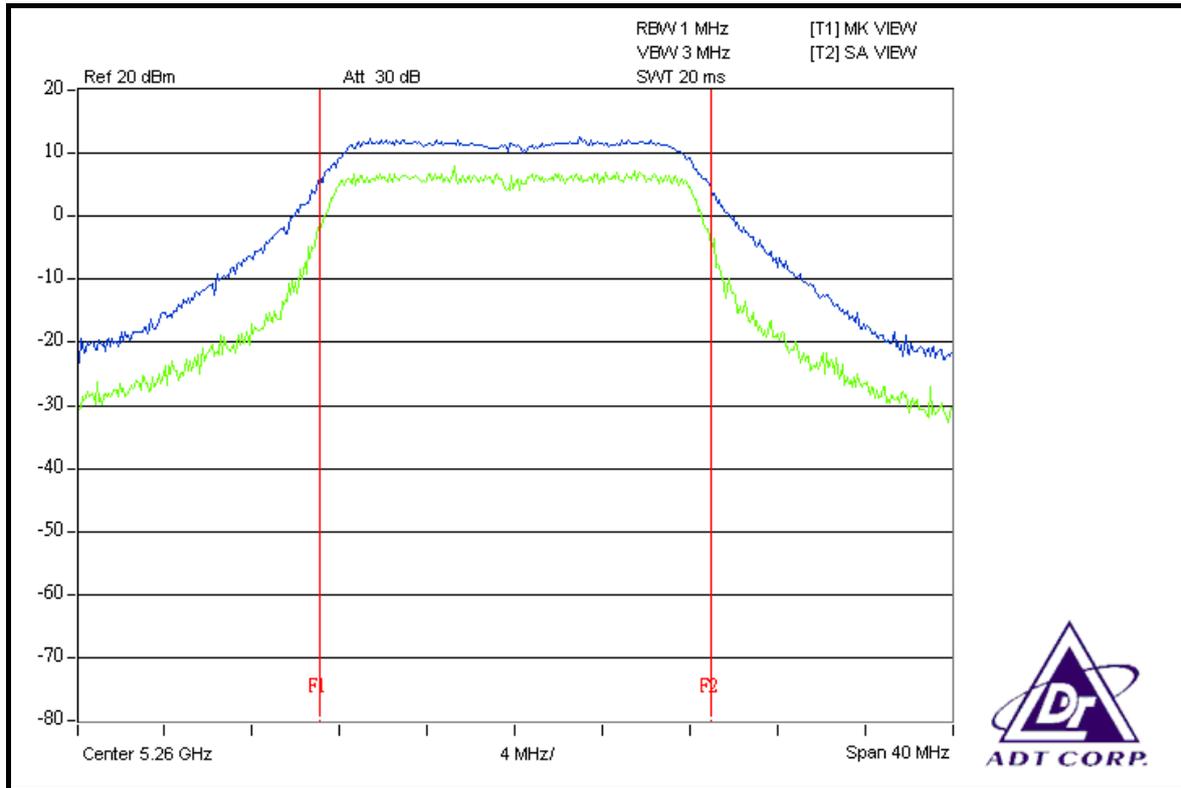


CH 36

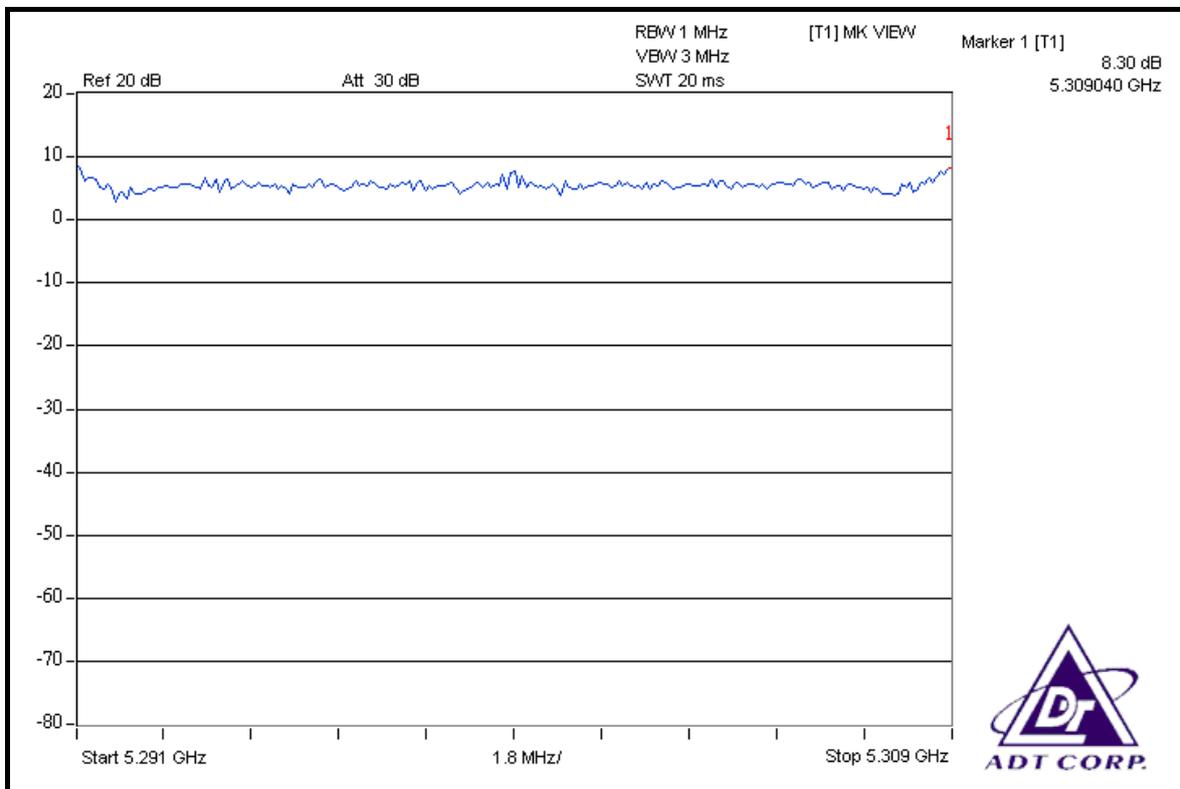
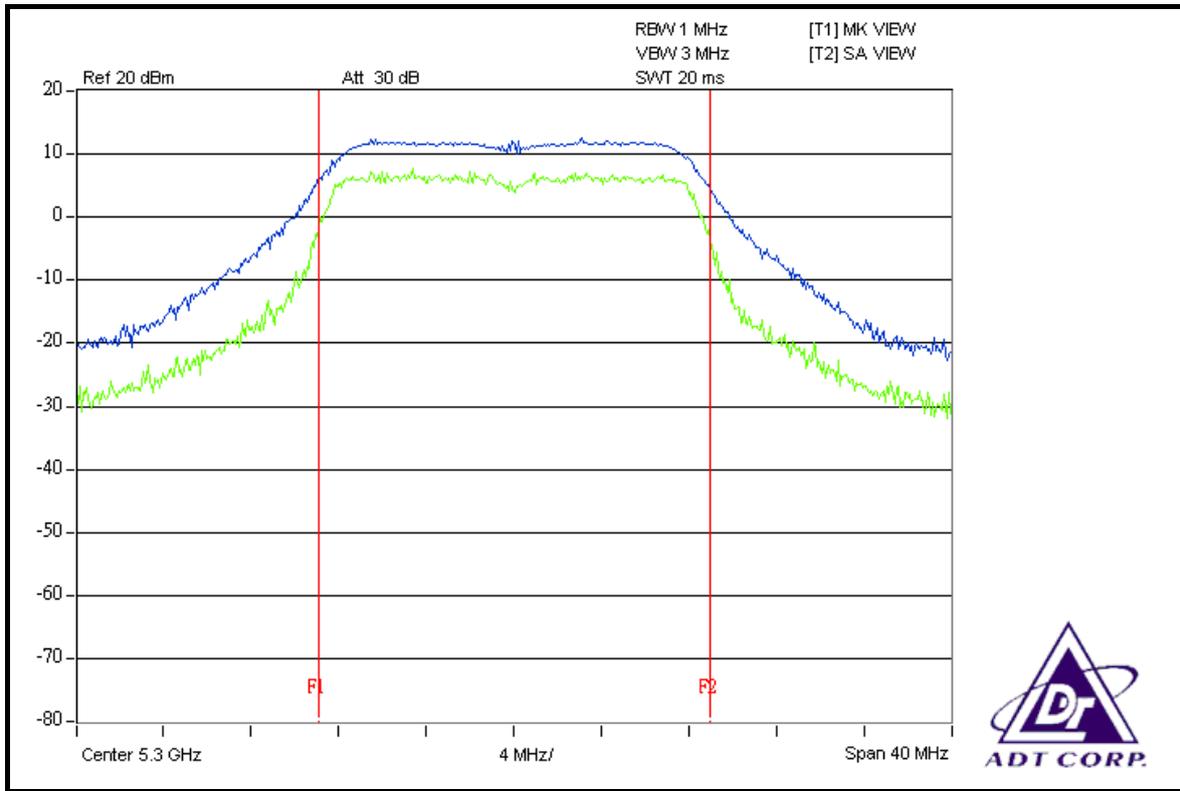




CH 52

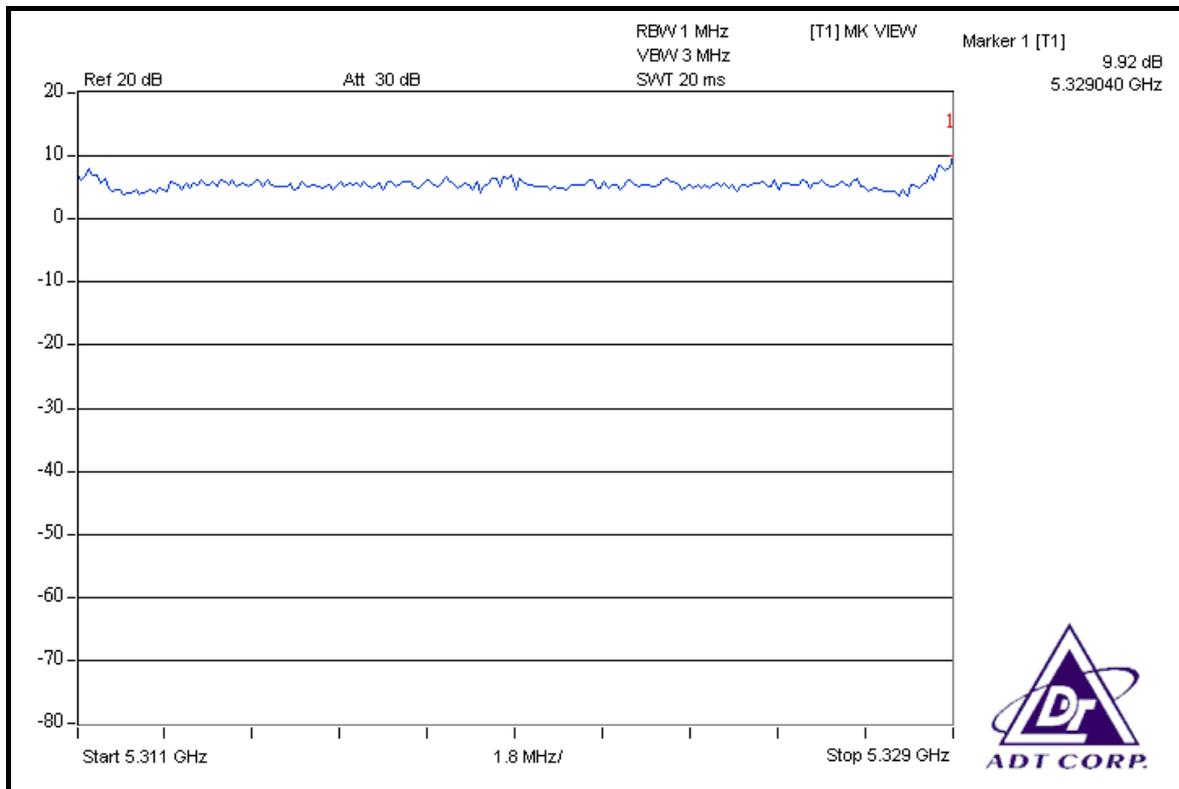
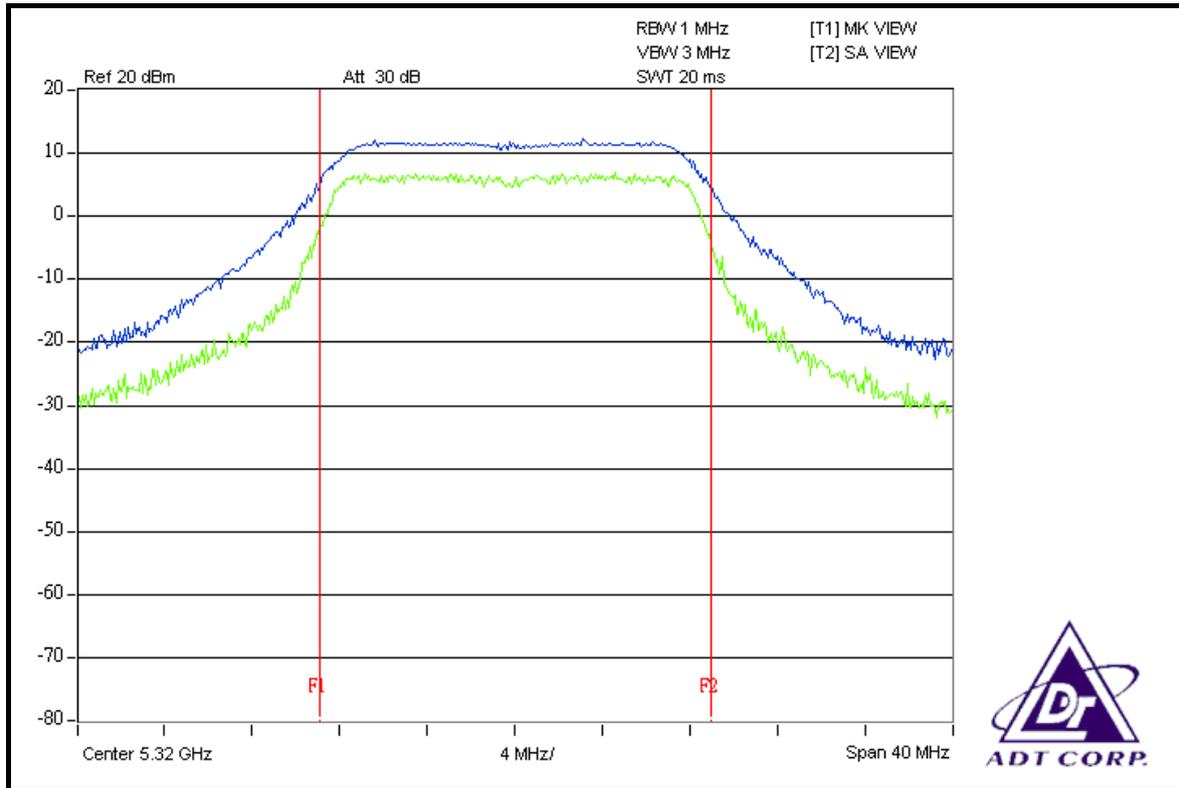


CH 60

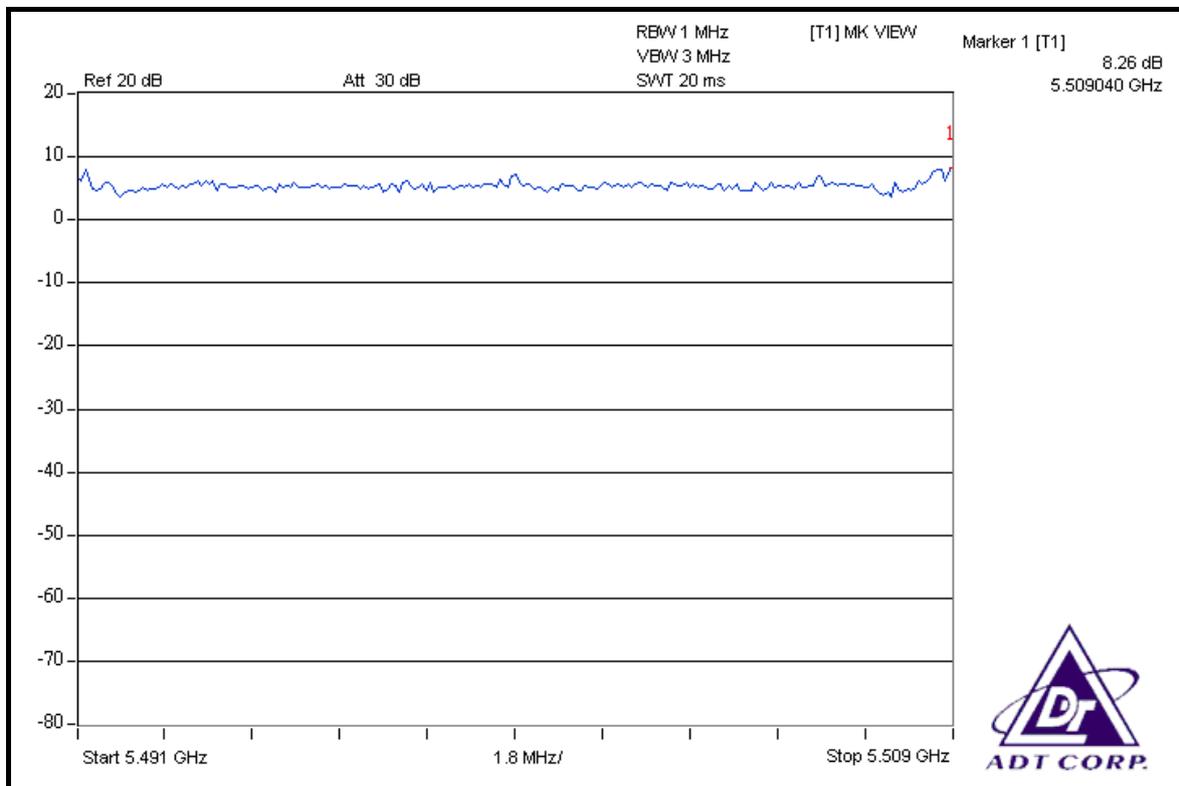
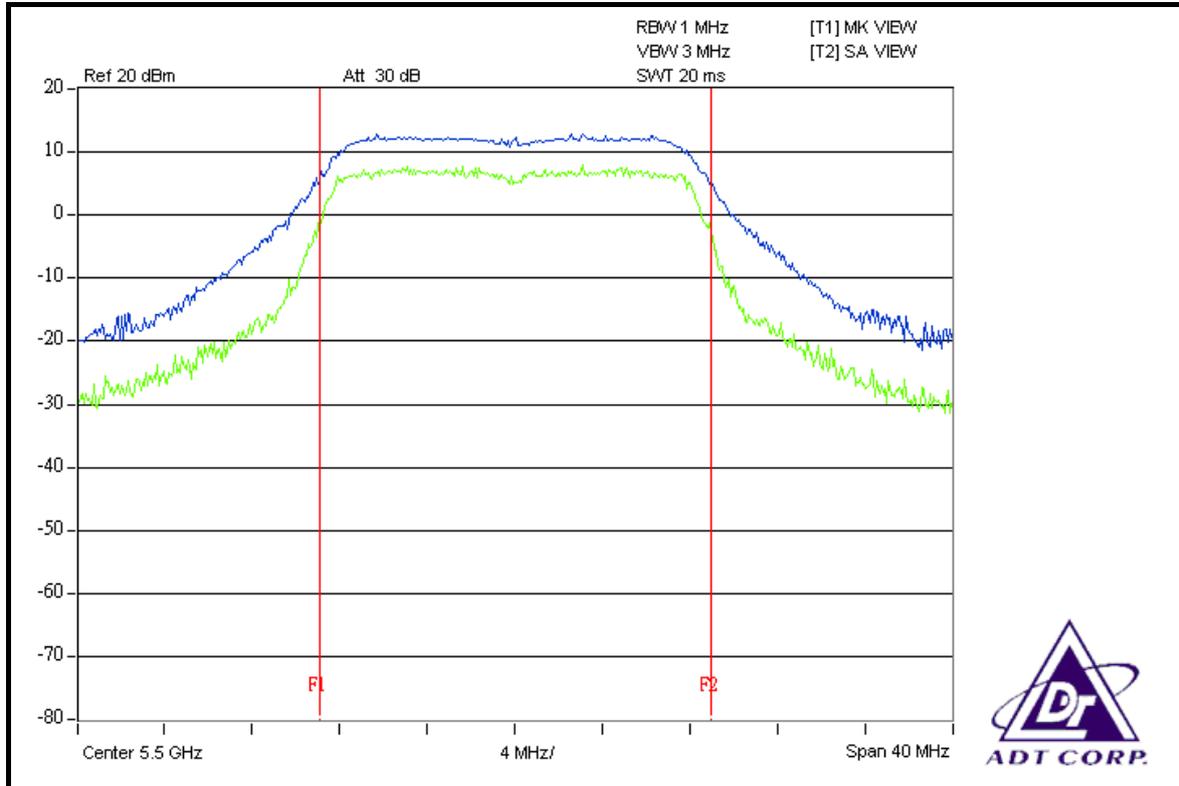




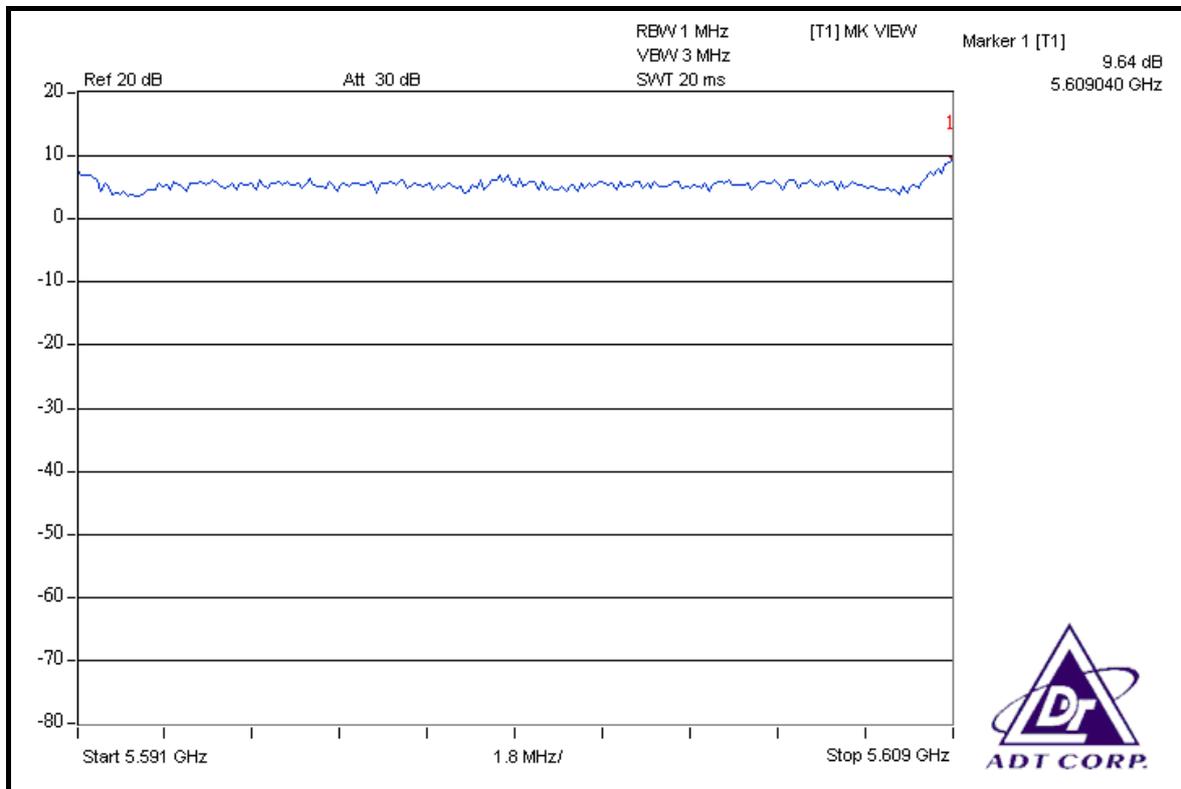
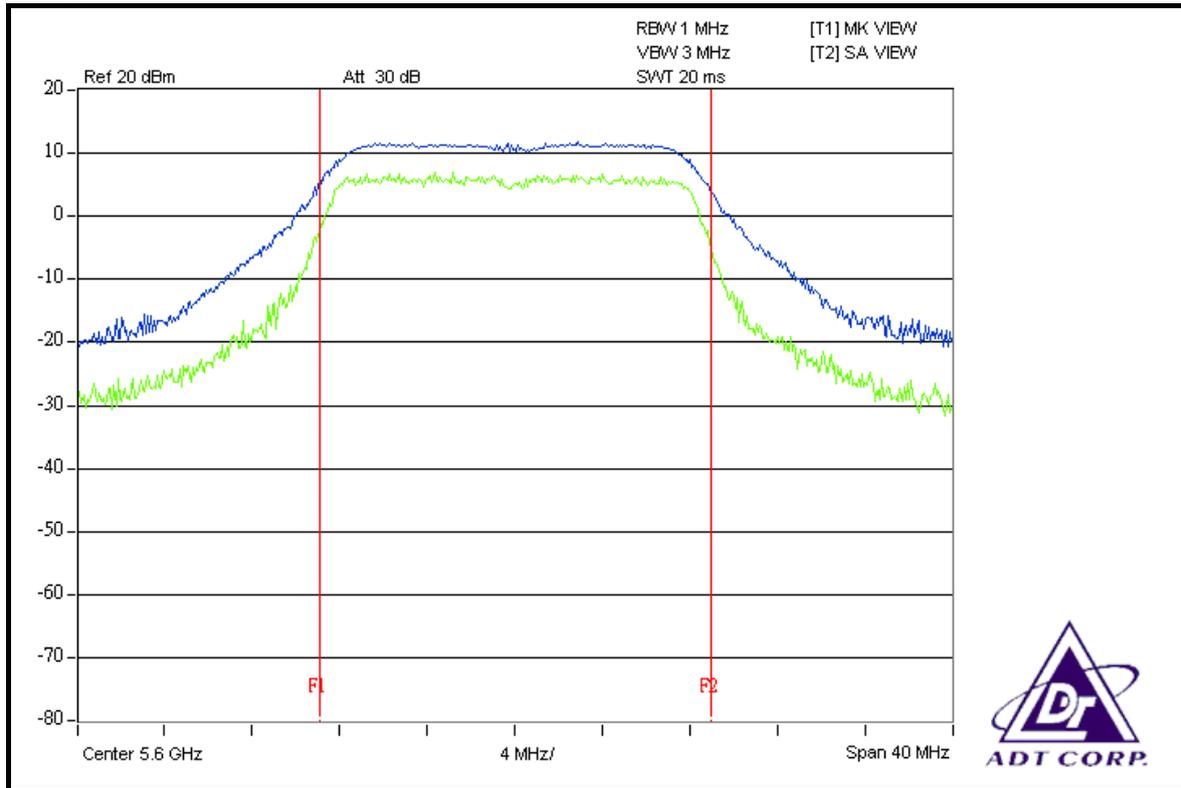
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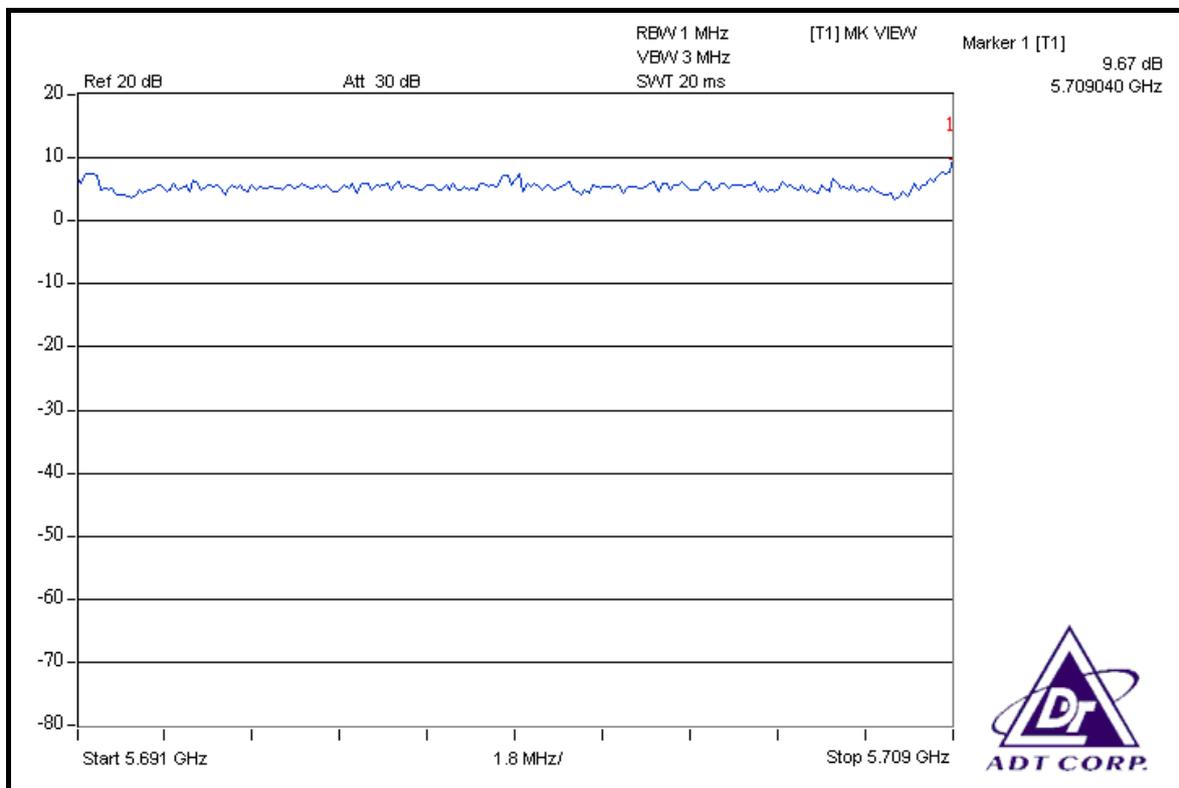
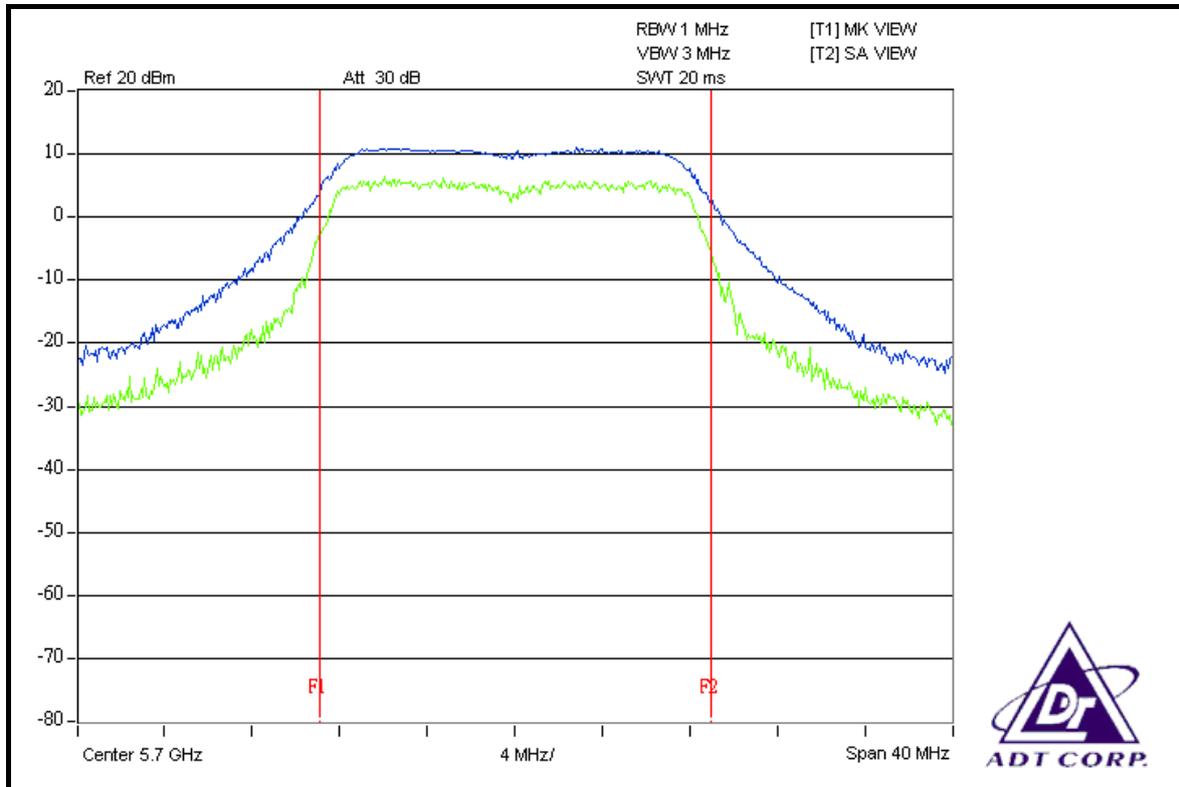
CH 100



CH 120



CH 140





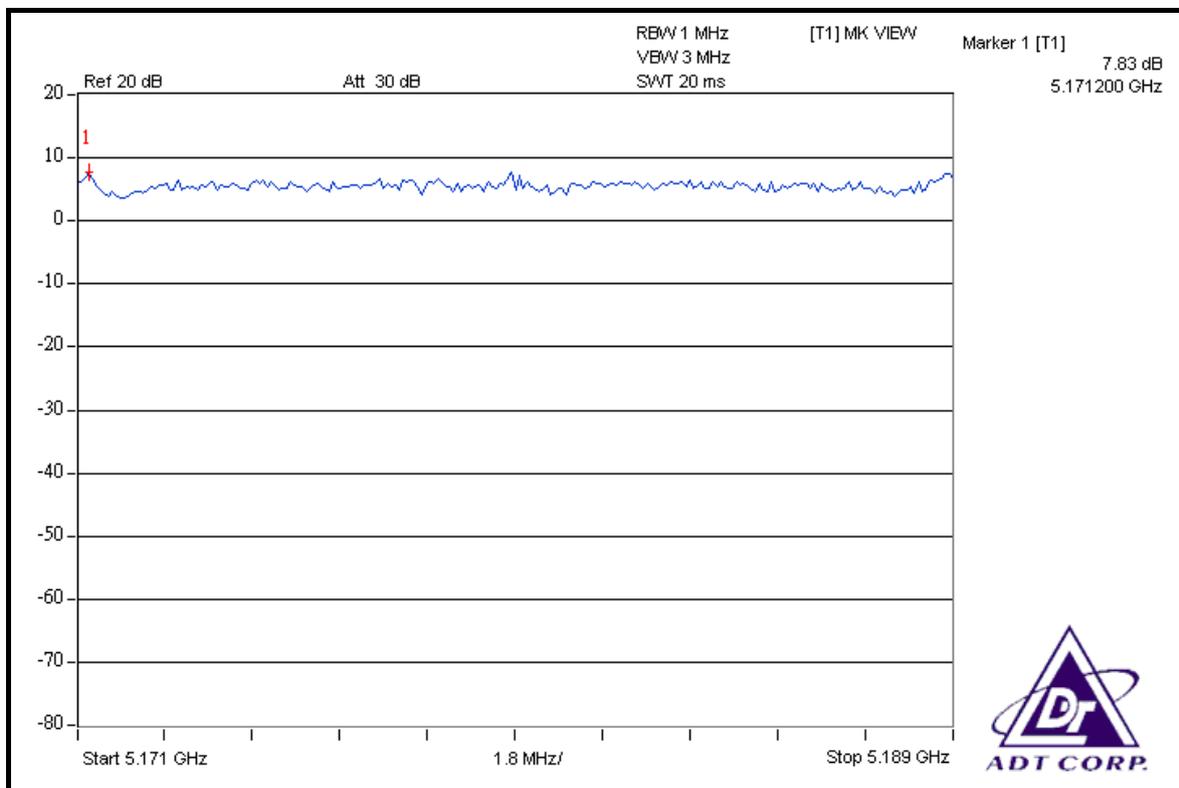
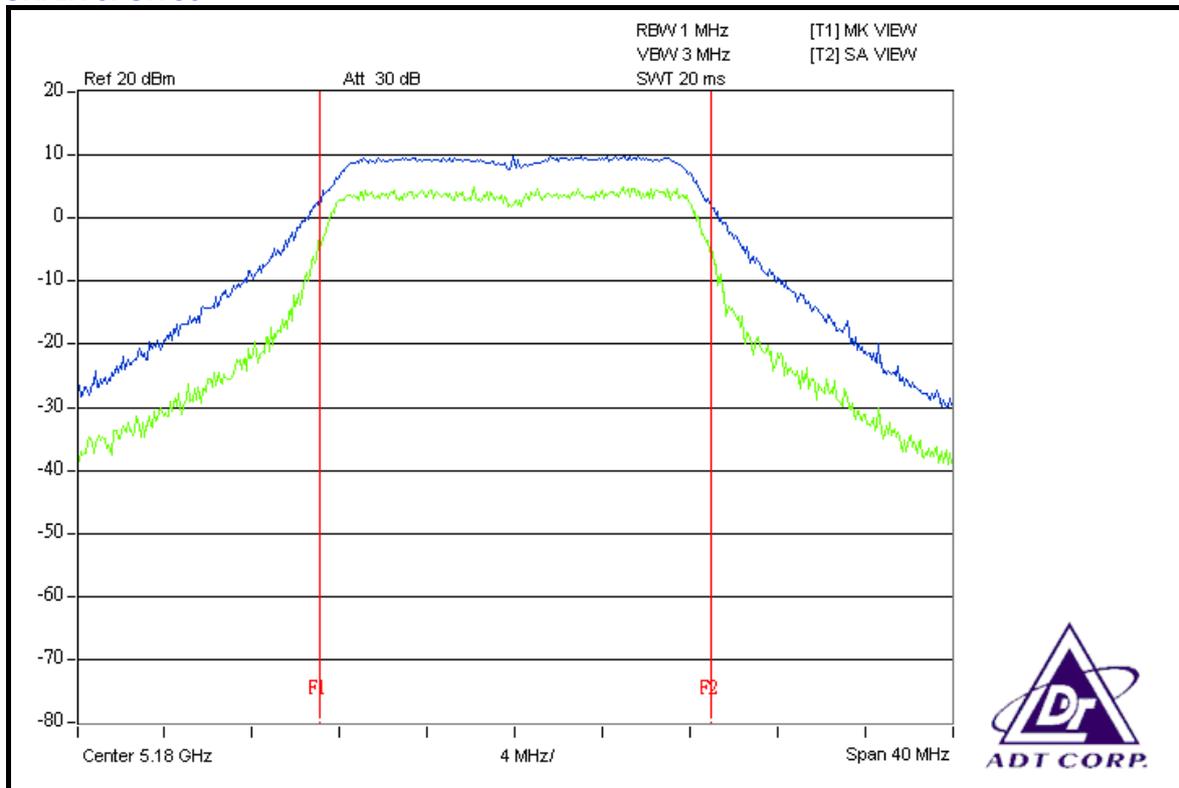
DRAFT 802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

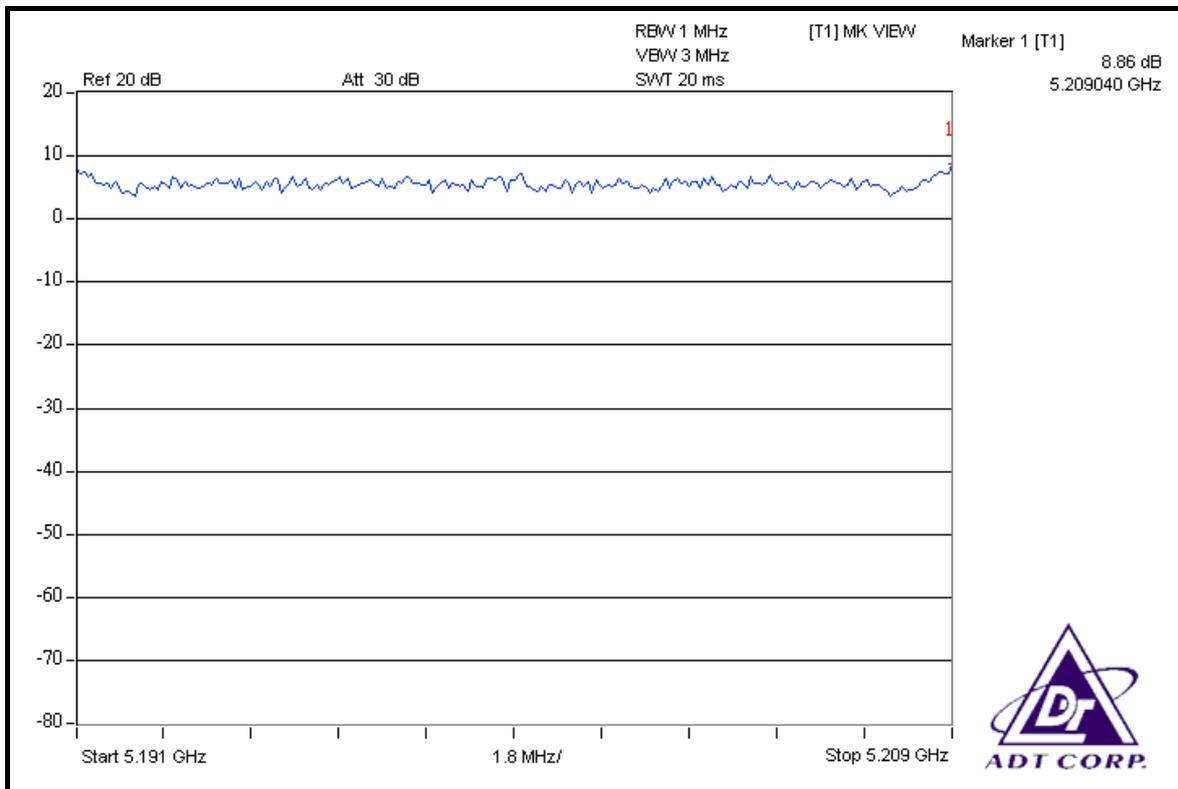
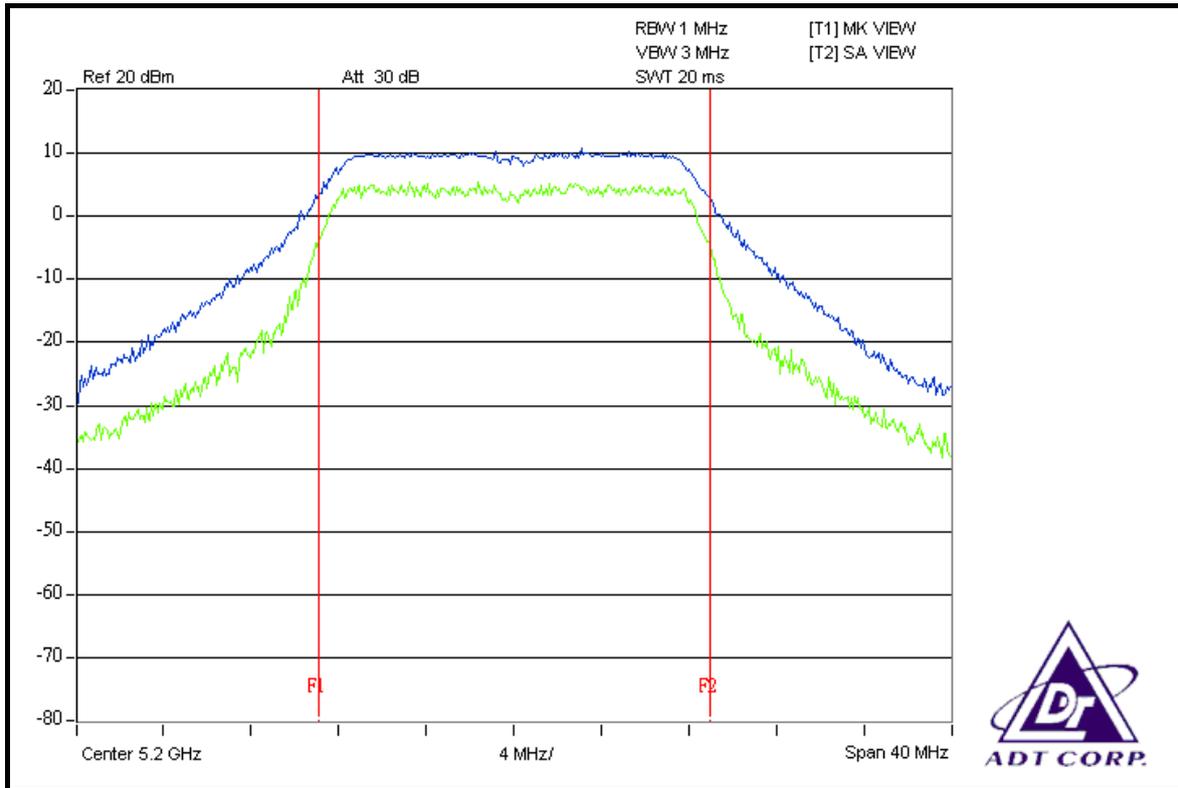
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)		PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1		
36	5180	7.83	8.30	13	PASS
40	5200	8.86	8.02	13	PASS
48	5240	8.59	9.45	13	PASS
52	5260	8.58	9.09	13	PASS
60	5300	9.97	8.79	13	PASS
64	5320	8.67	7.86	13	PASS
100	5500	8.65	10.10	13	PASS
120	5600	8.68	9.27	13	PASS
140	5700	7.62	7.48	13	PASS



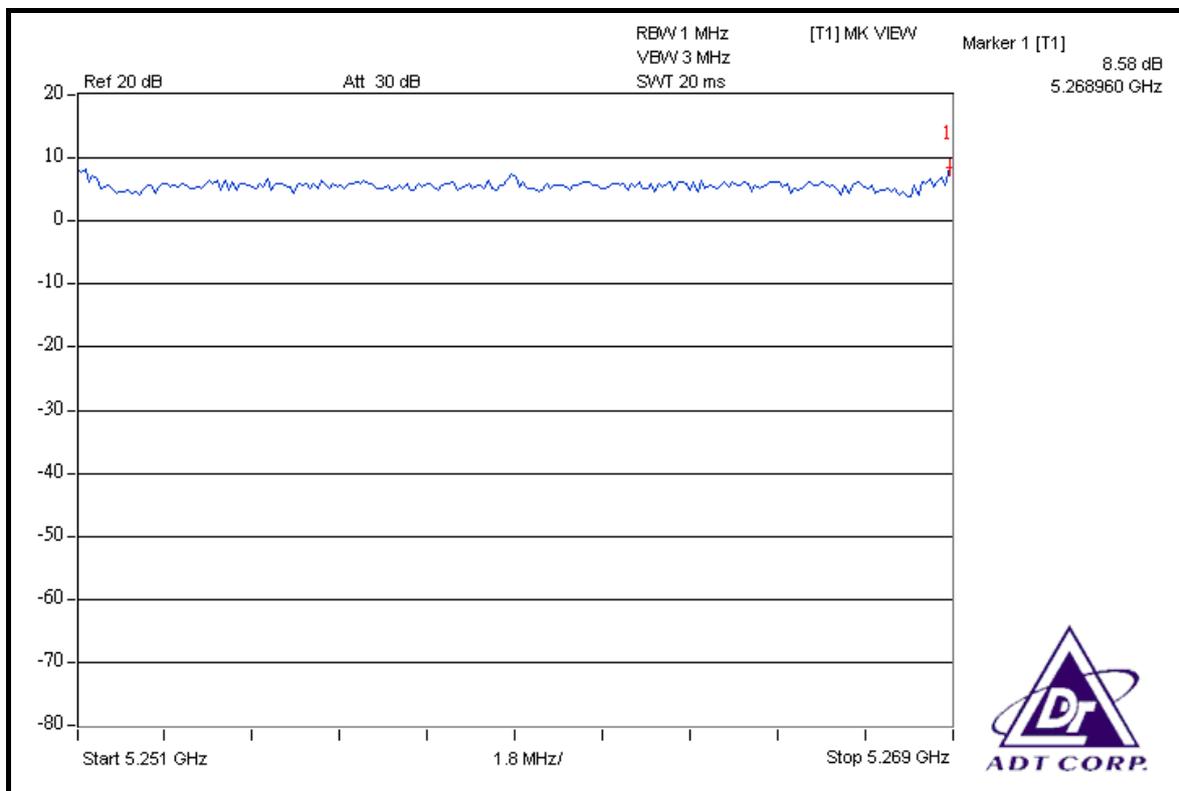
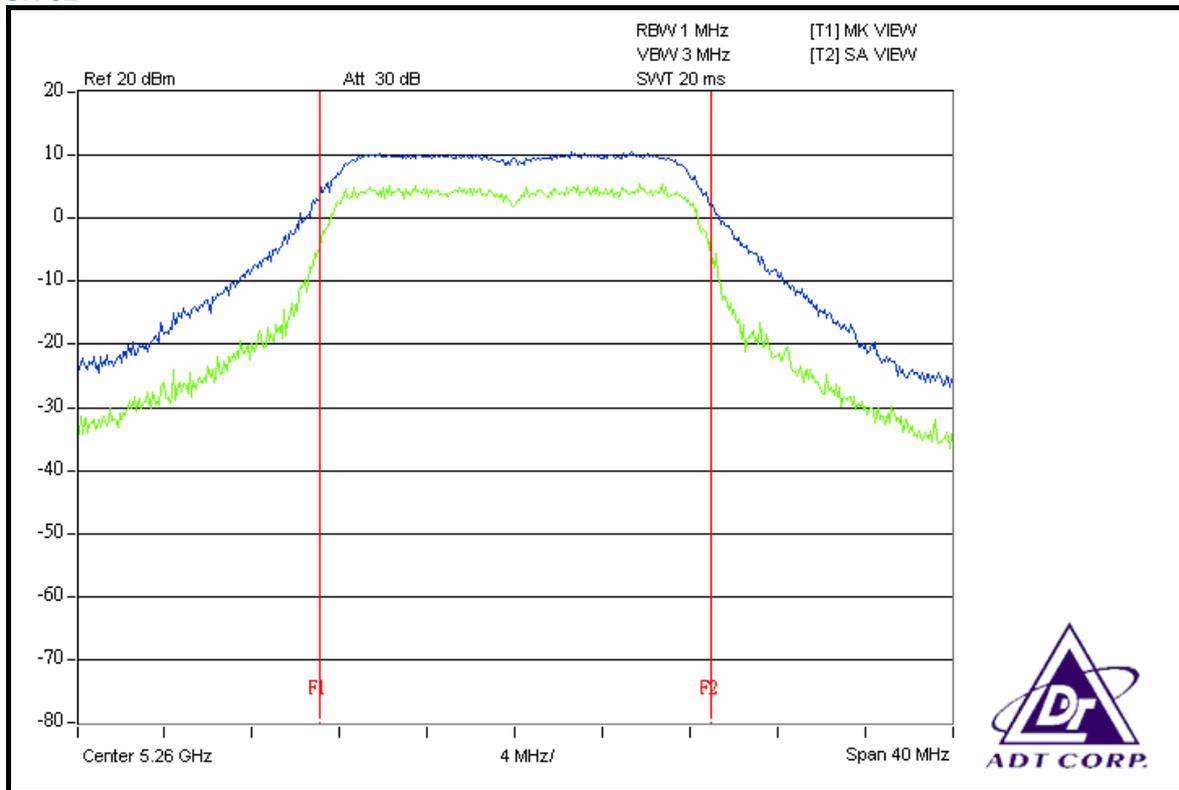
CHAIN 0: CH 36



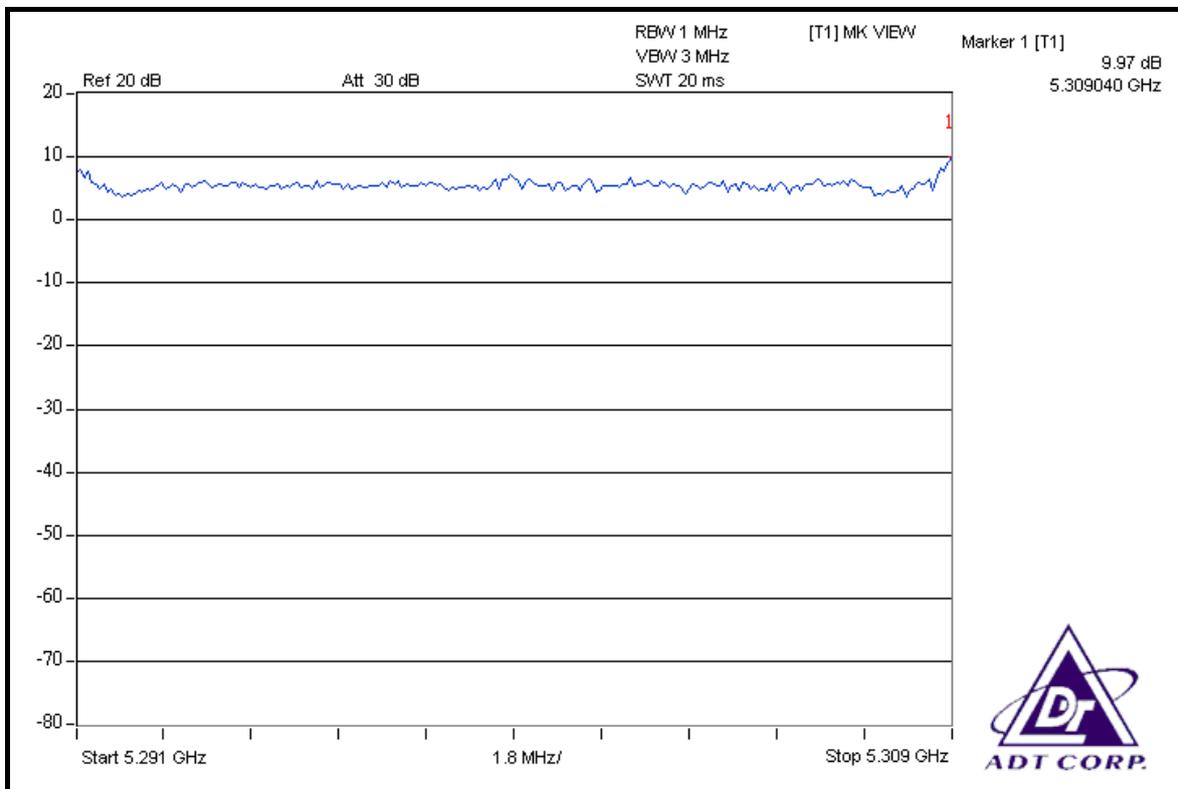
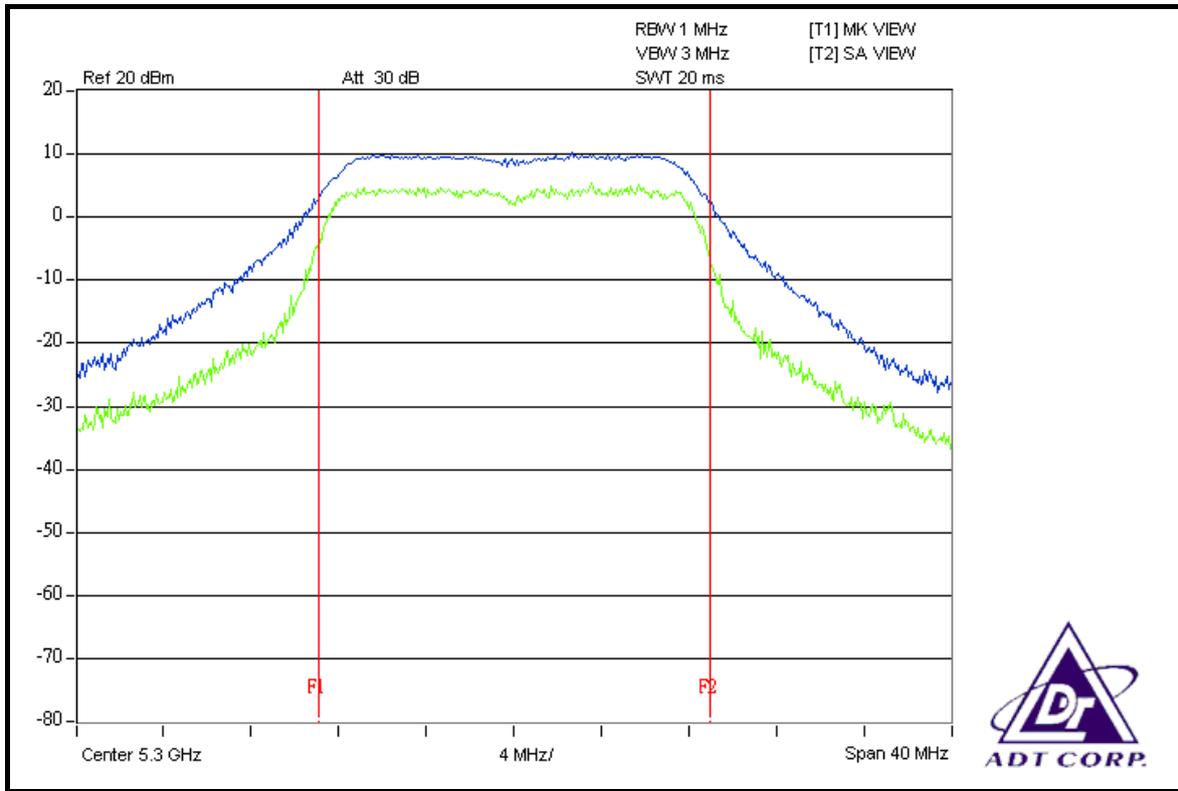
CH 40



CH 52

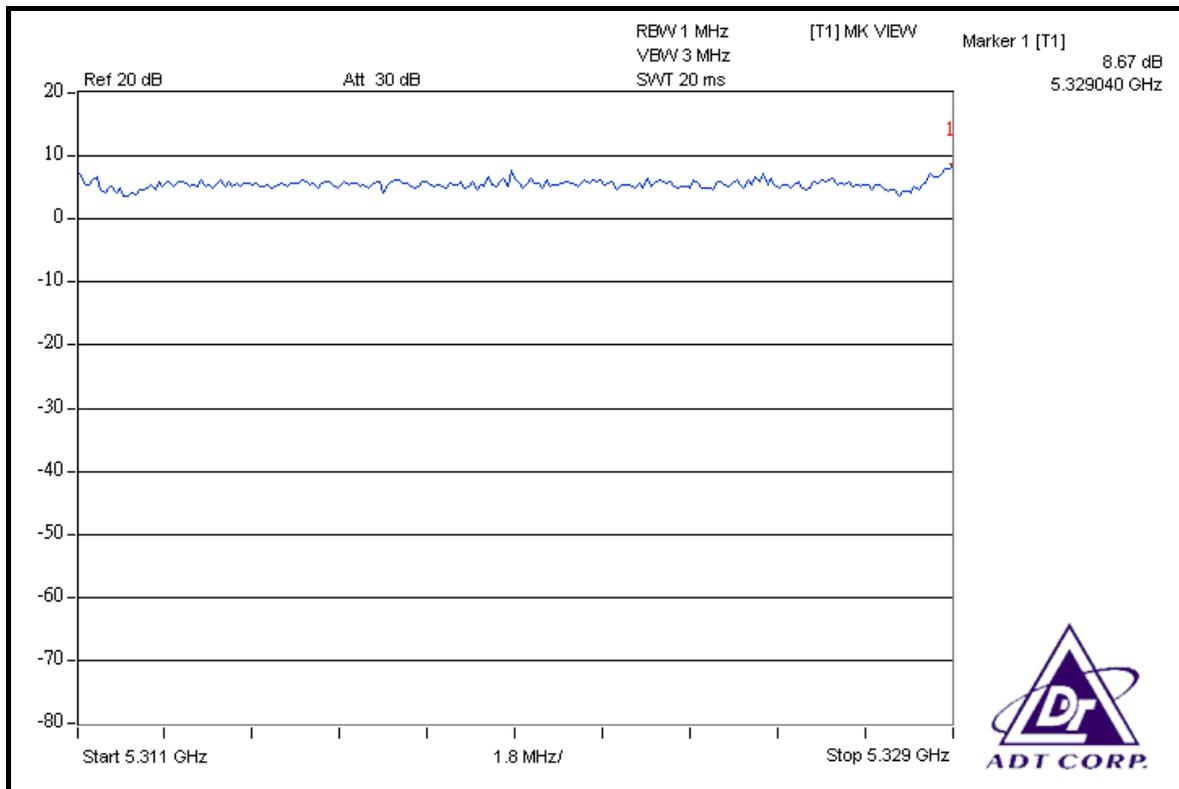
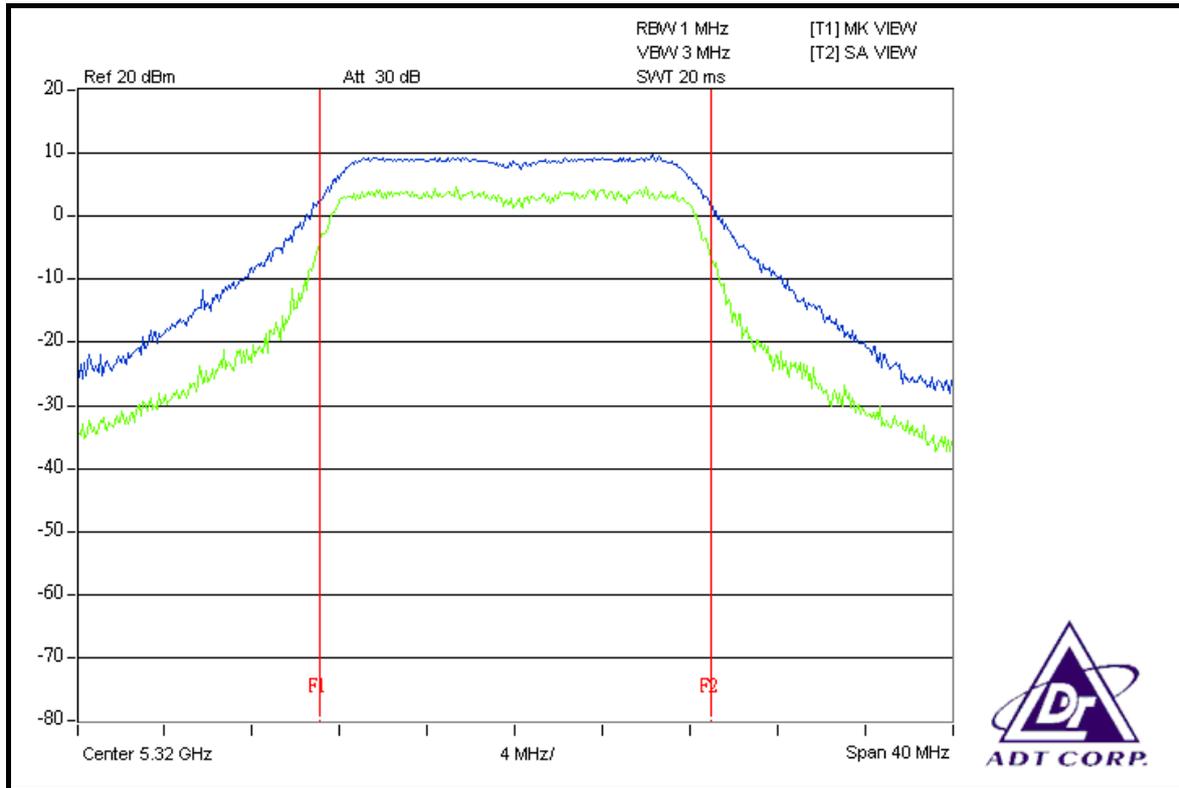


CH 60

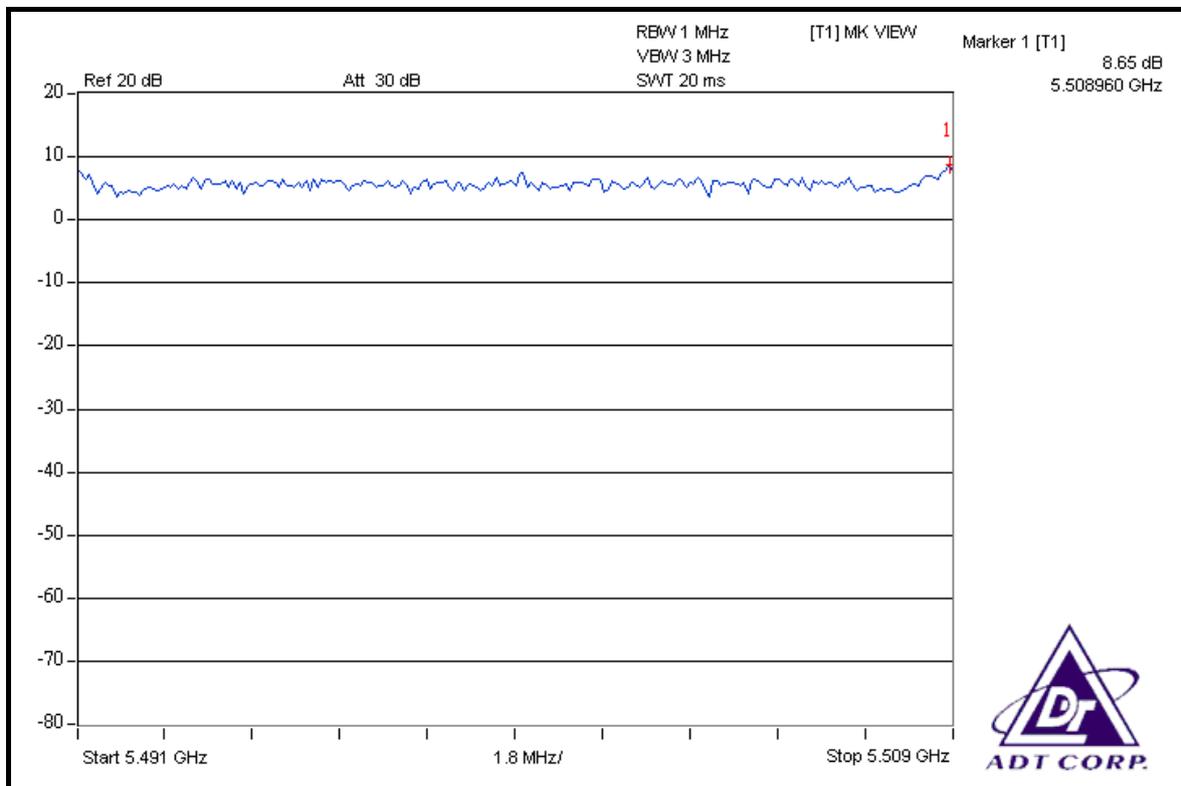
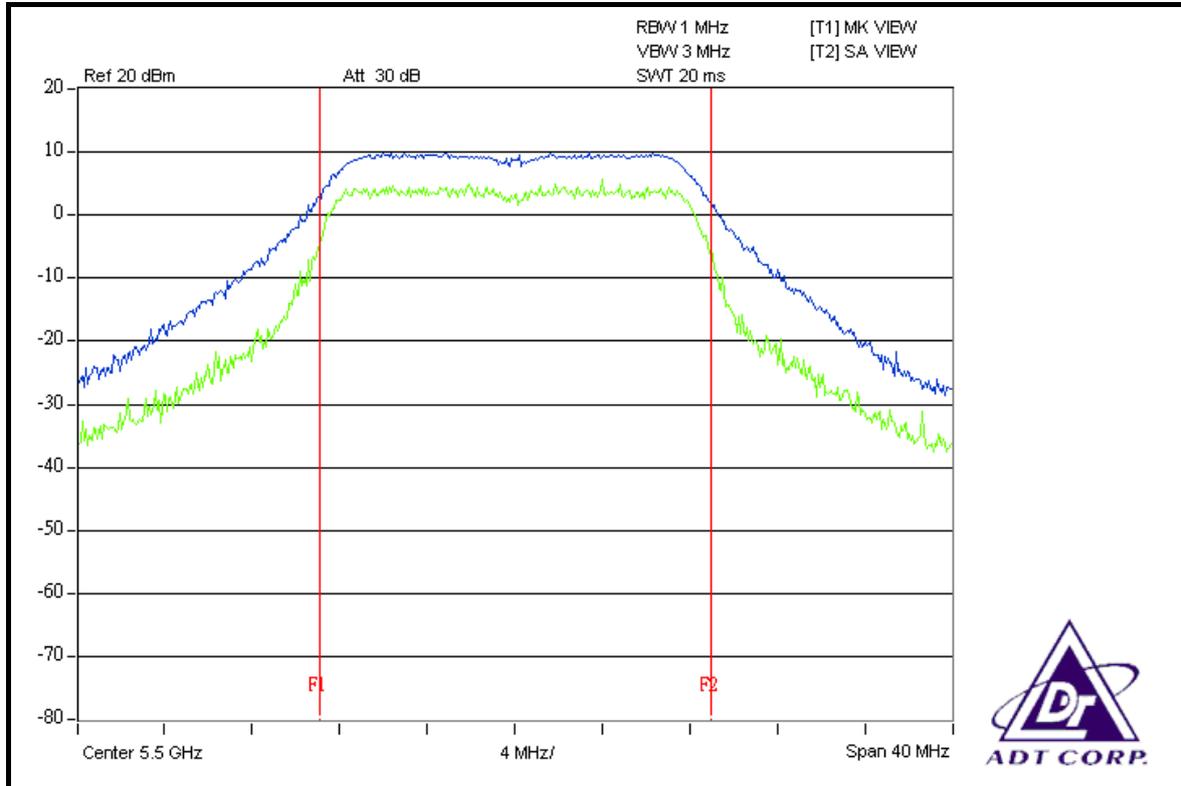




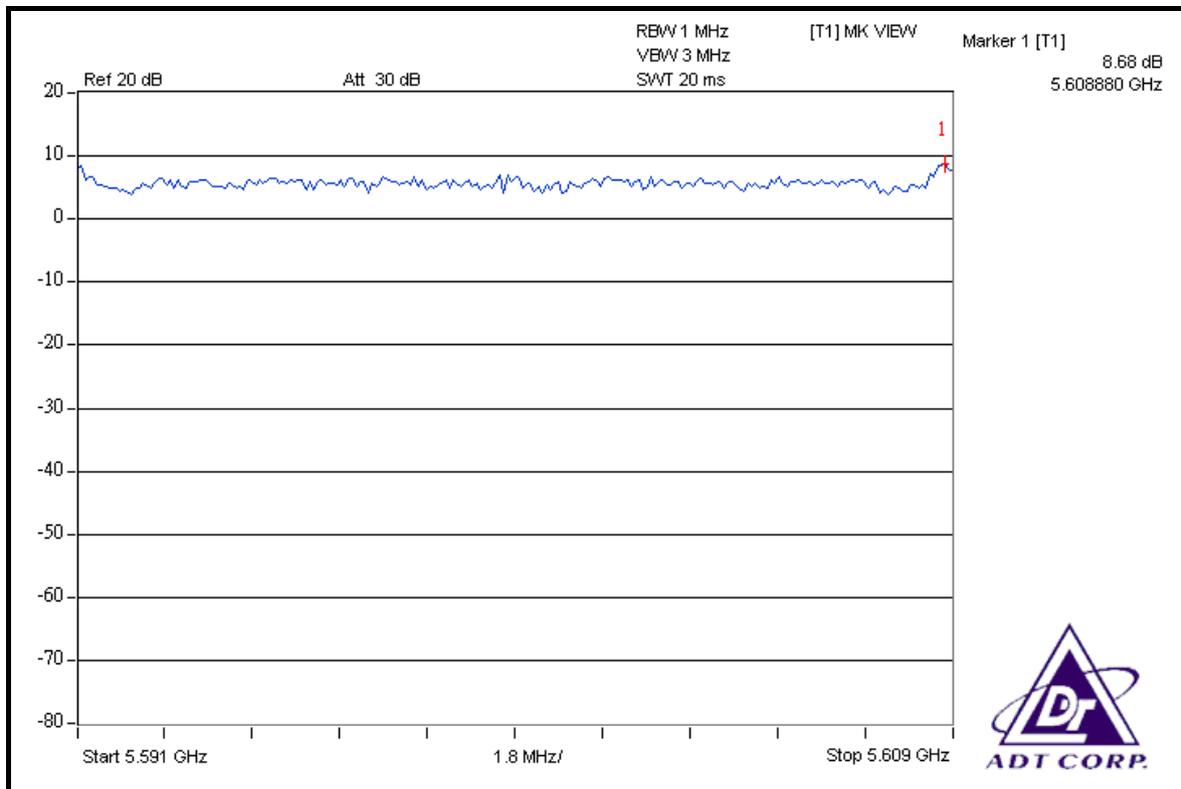
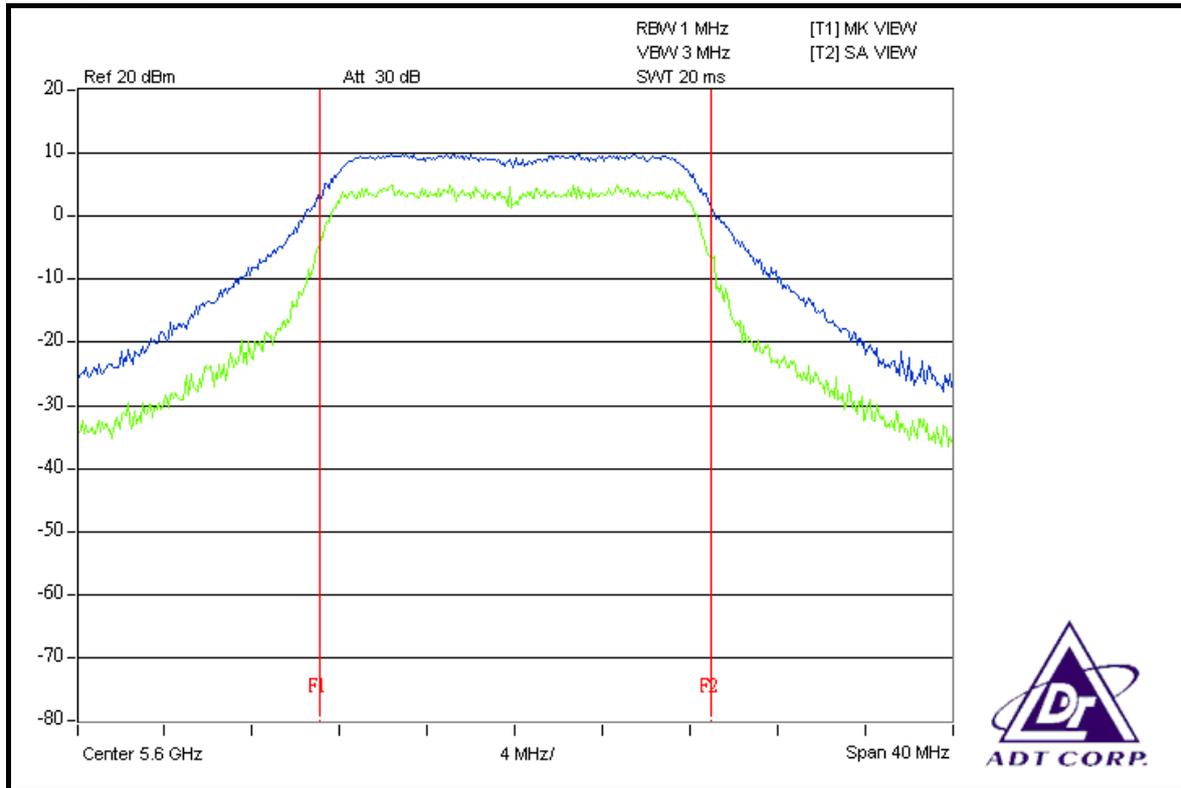
CH 64



CH 100

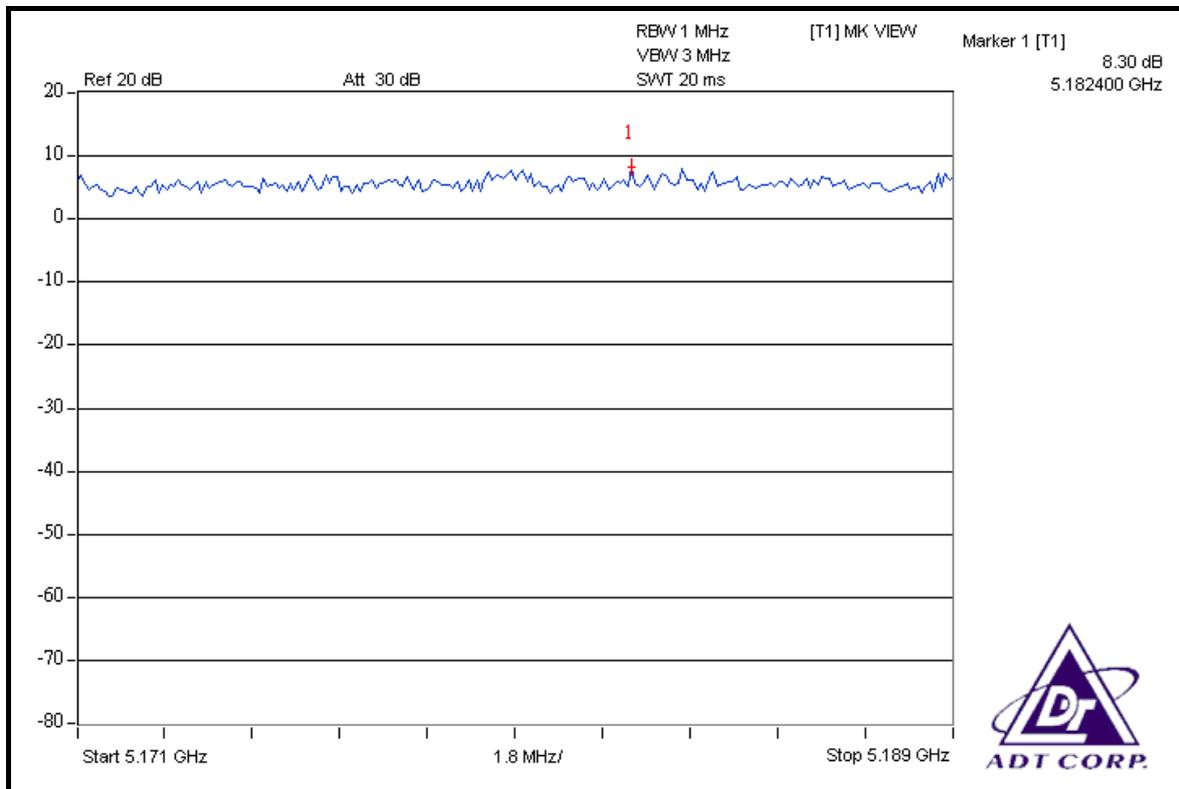
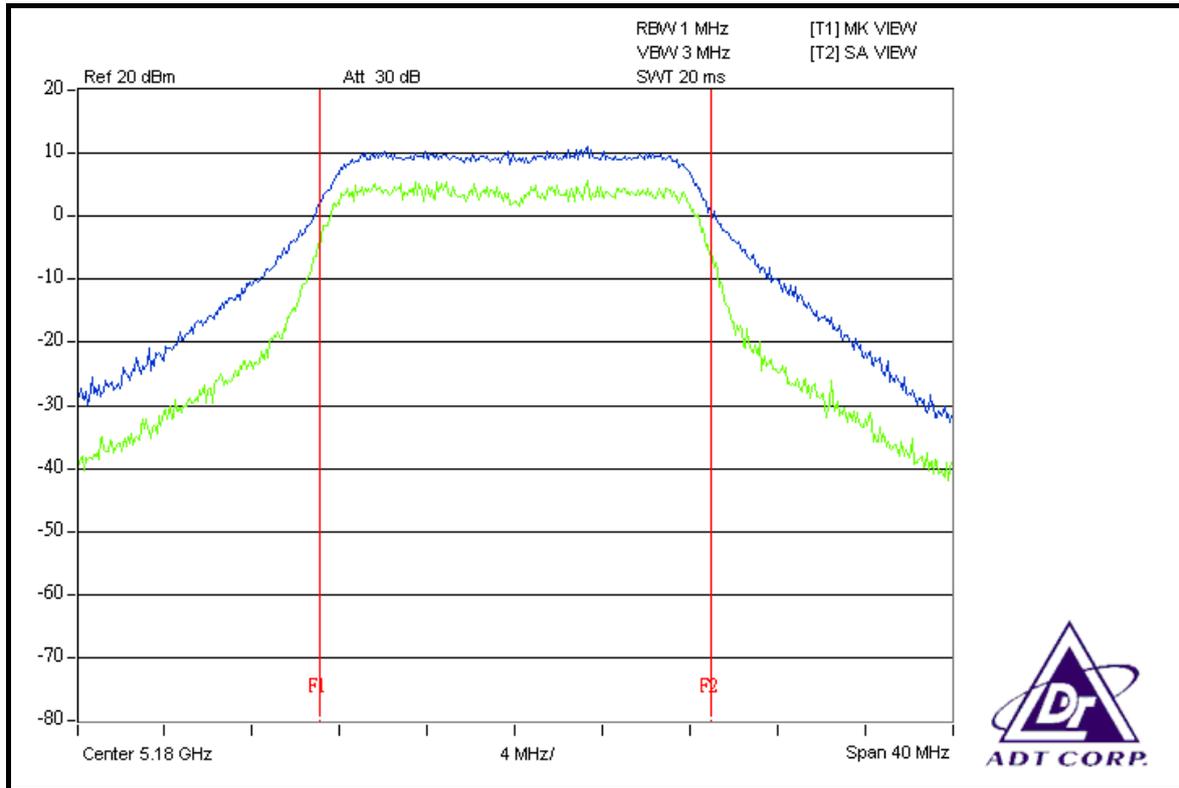


CH 120



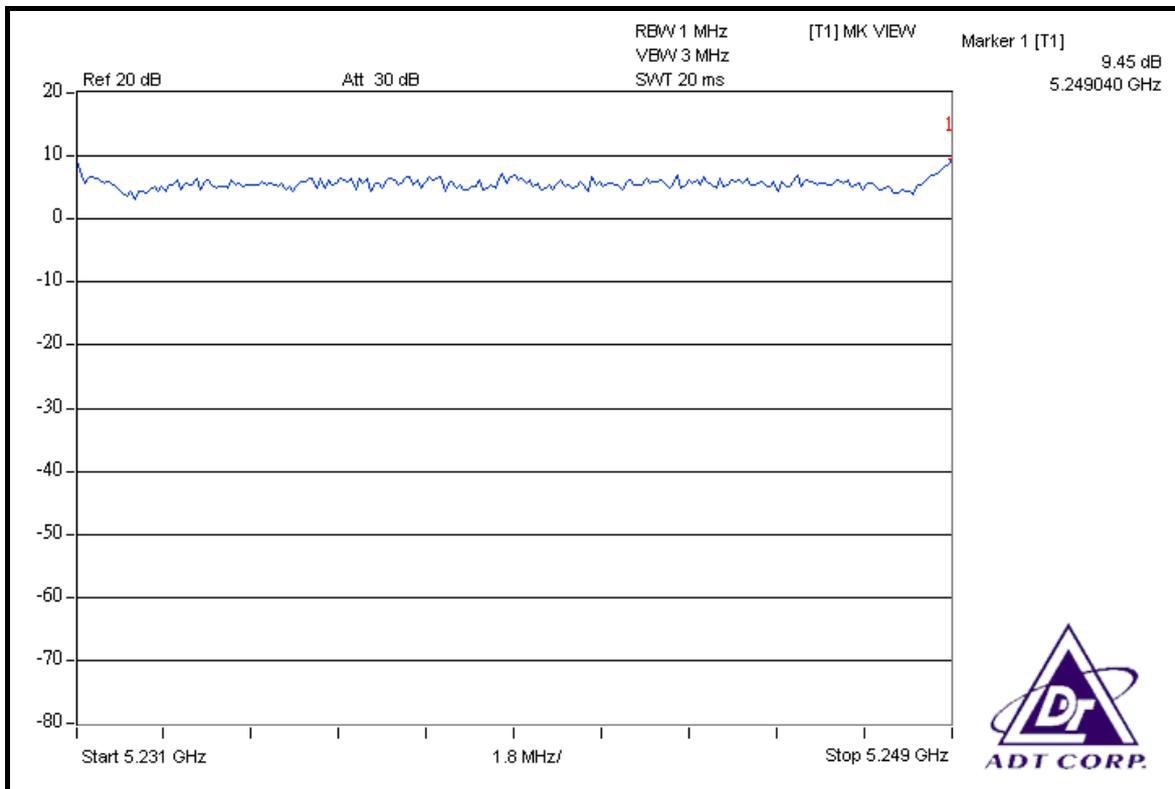
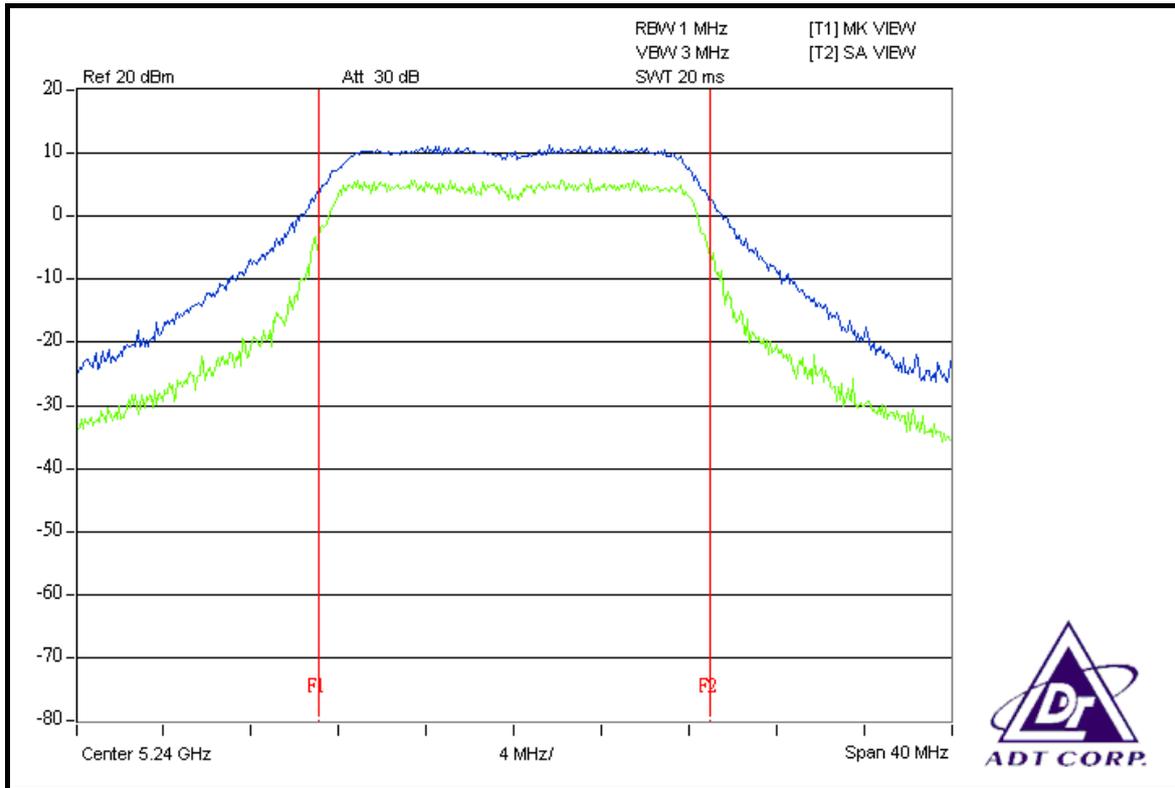


CHAIN 1: CH 36



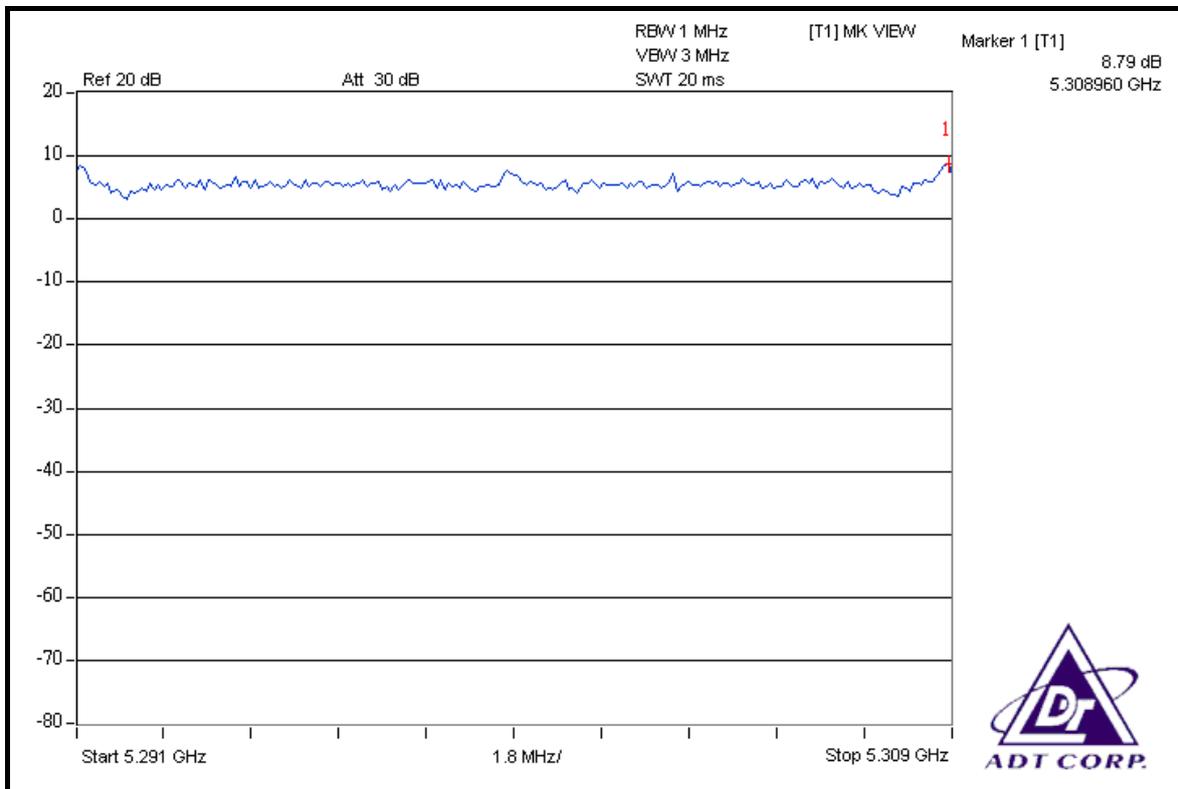
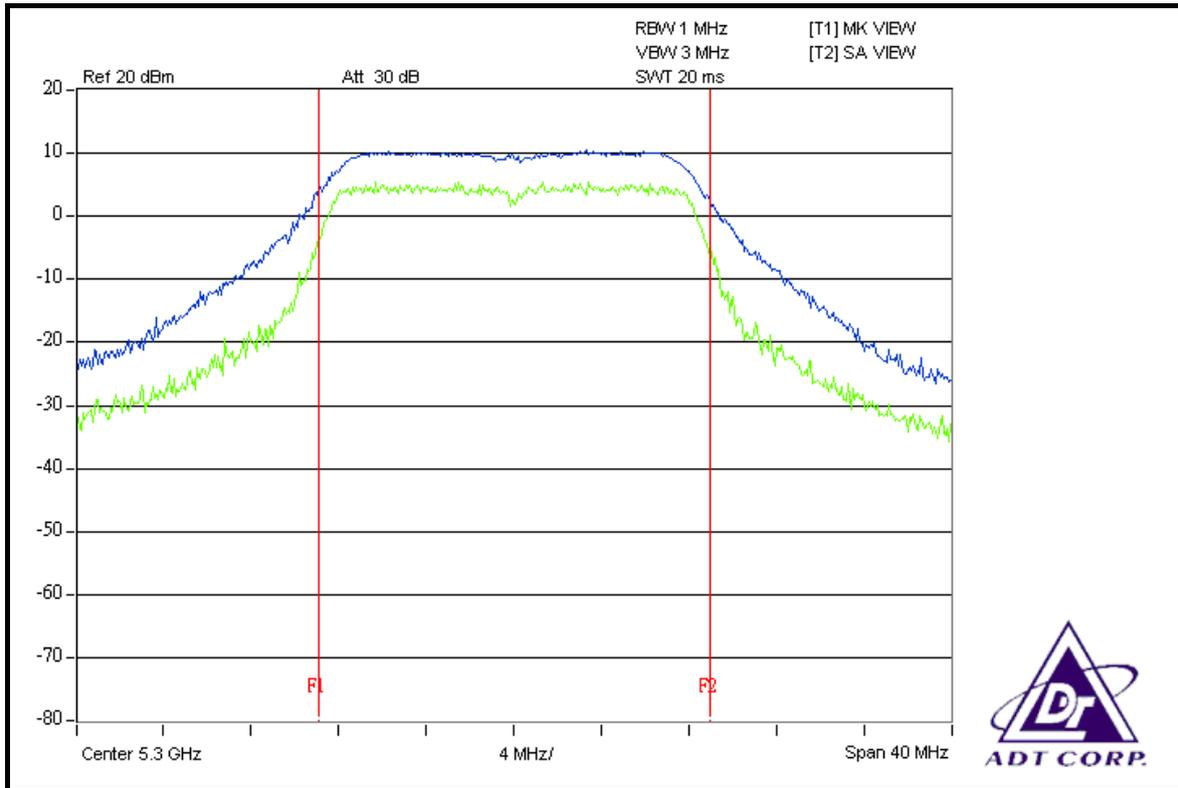


CH 48

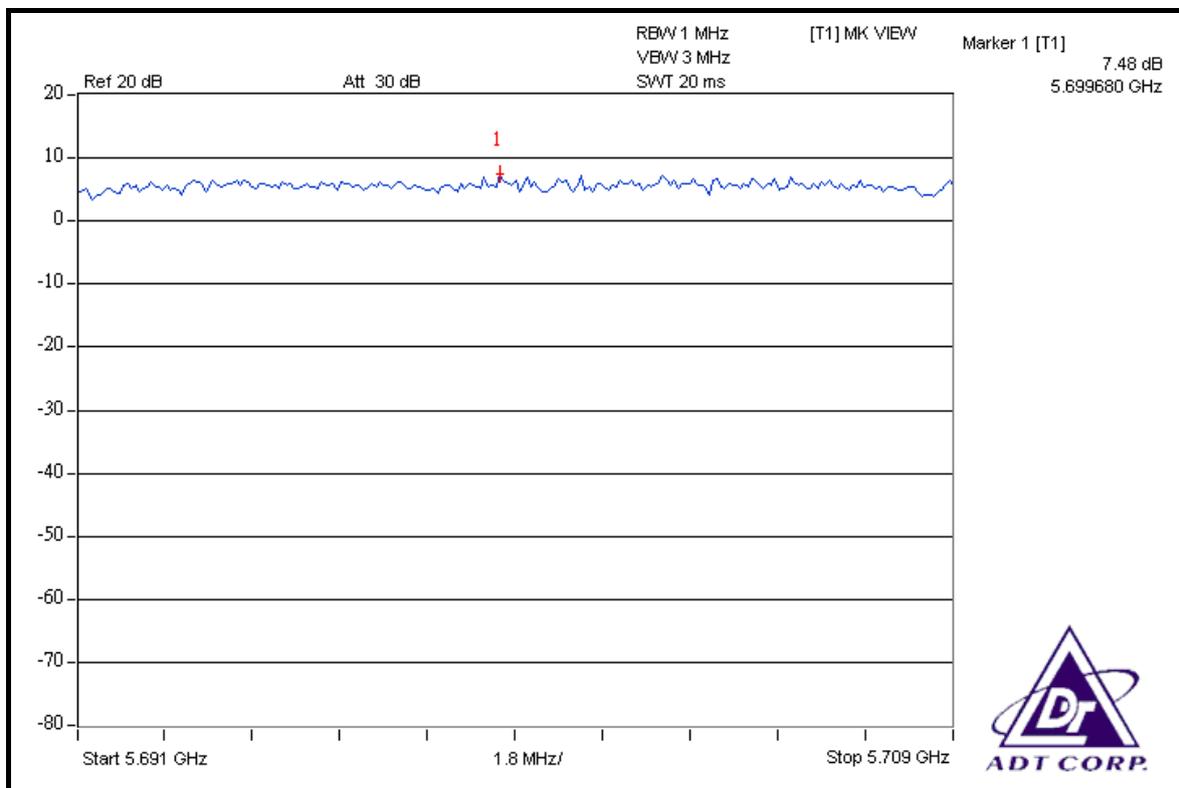
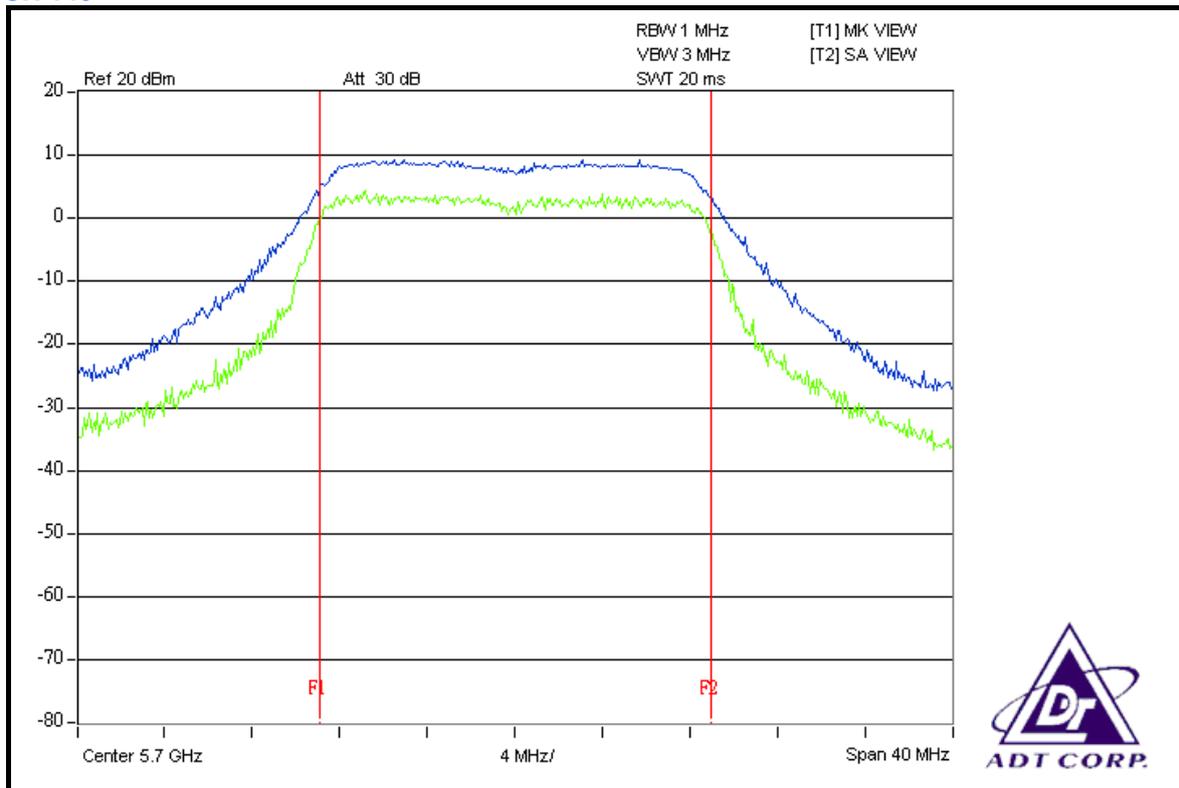




CH 60



CH 140





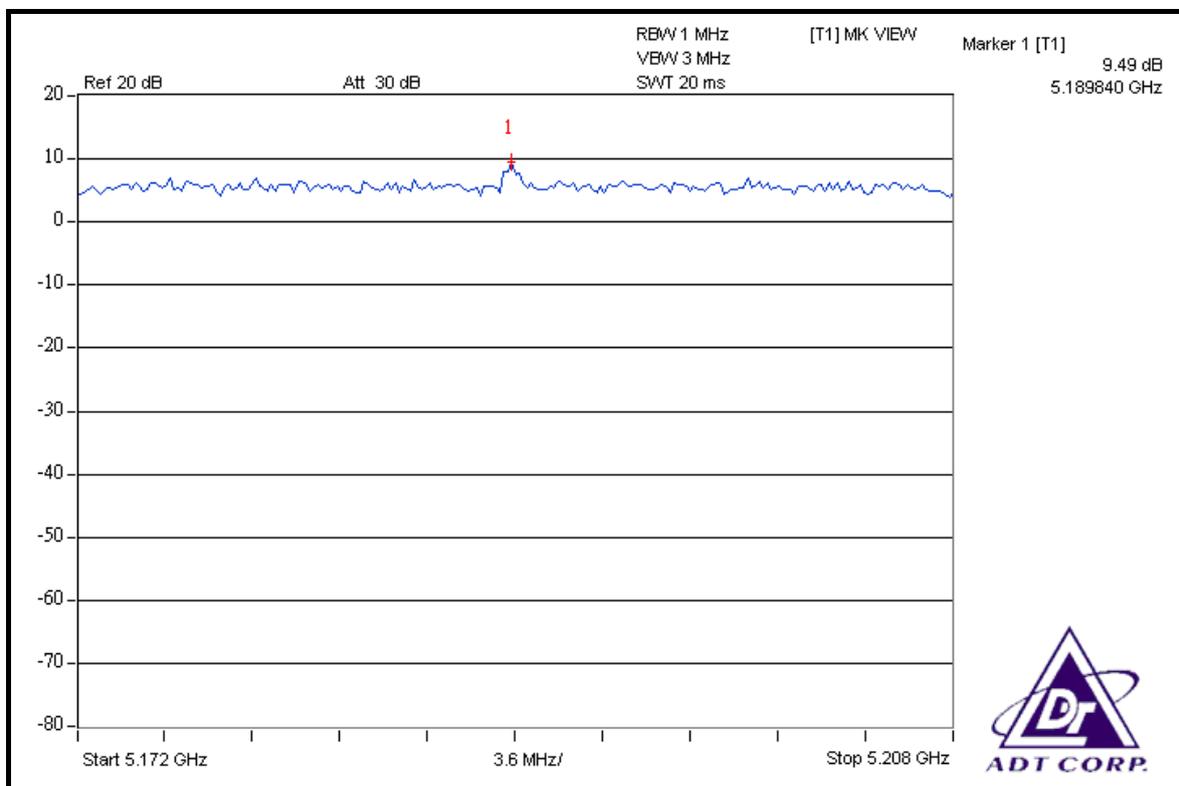
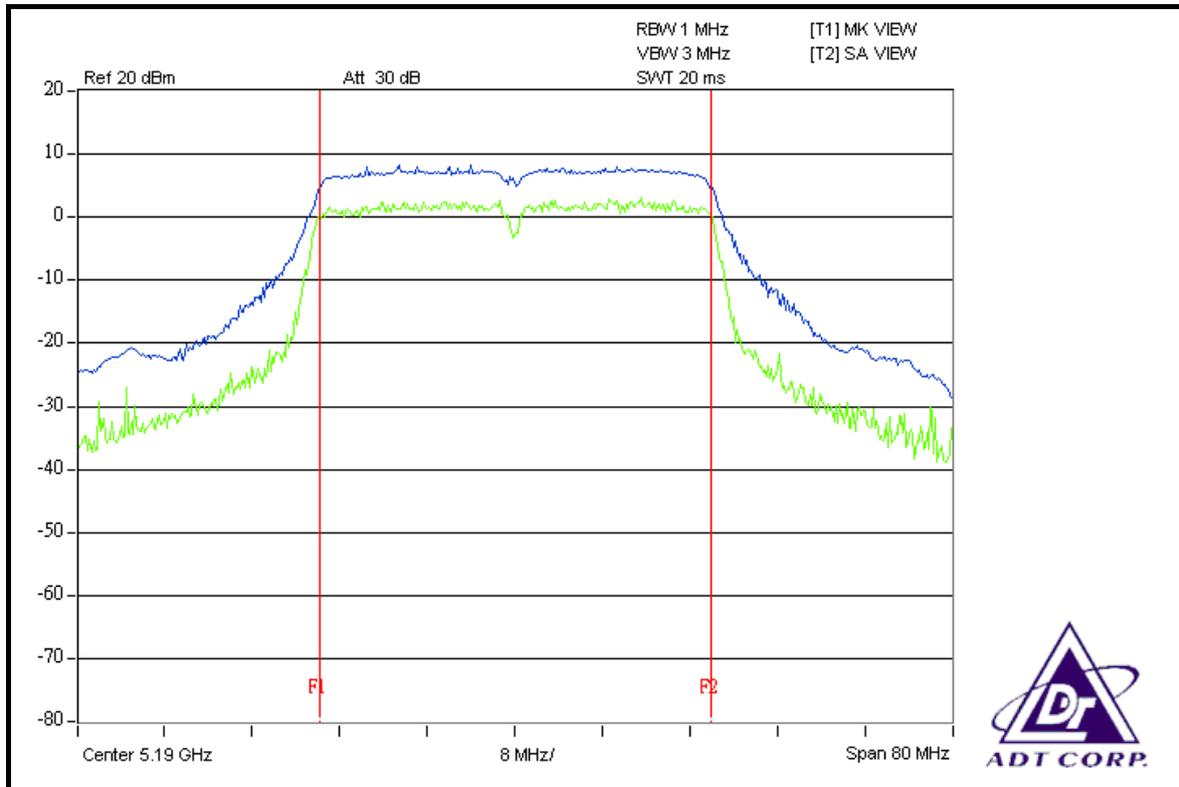
DRAFT 802.11n (40MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

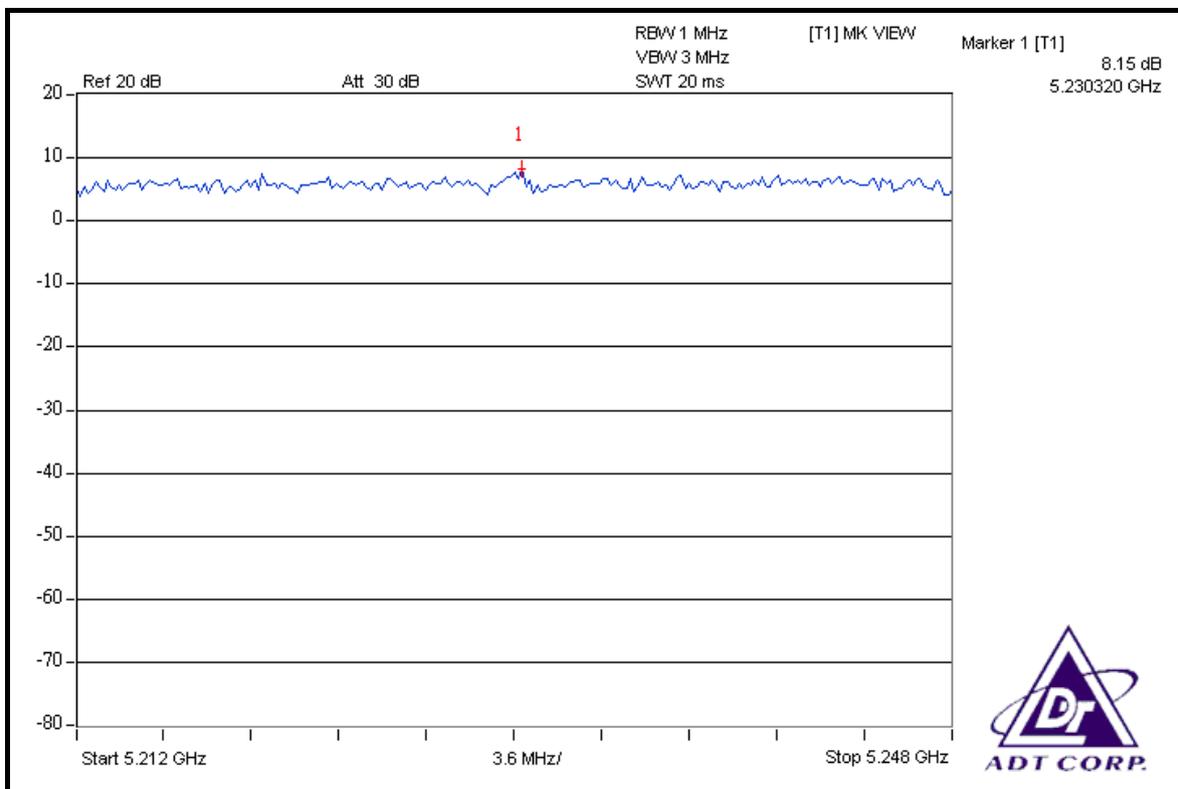
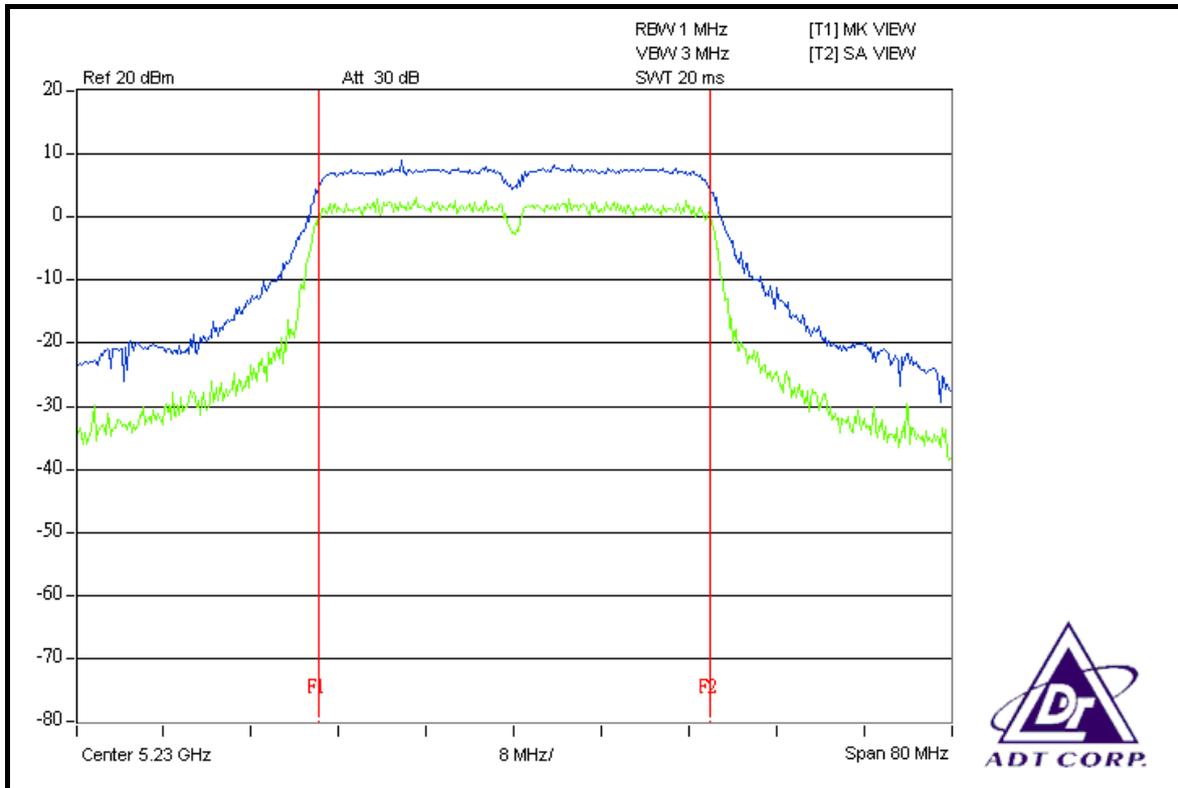
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)		PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		CHAIN 0	CHAIN 1		
38	5190	9.49	9.95	13	PASS
46	5230	8.15	7.27	13	PASS
54	5270	9.26	8.82	13	PASS
62	5310	10.04	7.42	13	PASS
102	5510	11.27	8.03	13	PASS
118	5590	9.28	7.83	13	PASS
134	5670	8.36	9.79	13	PASS



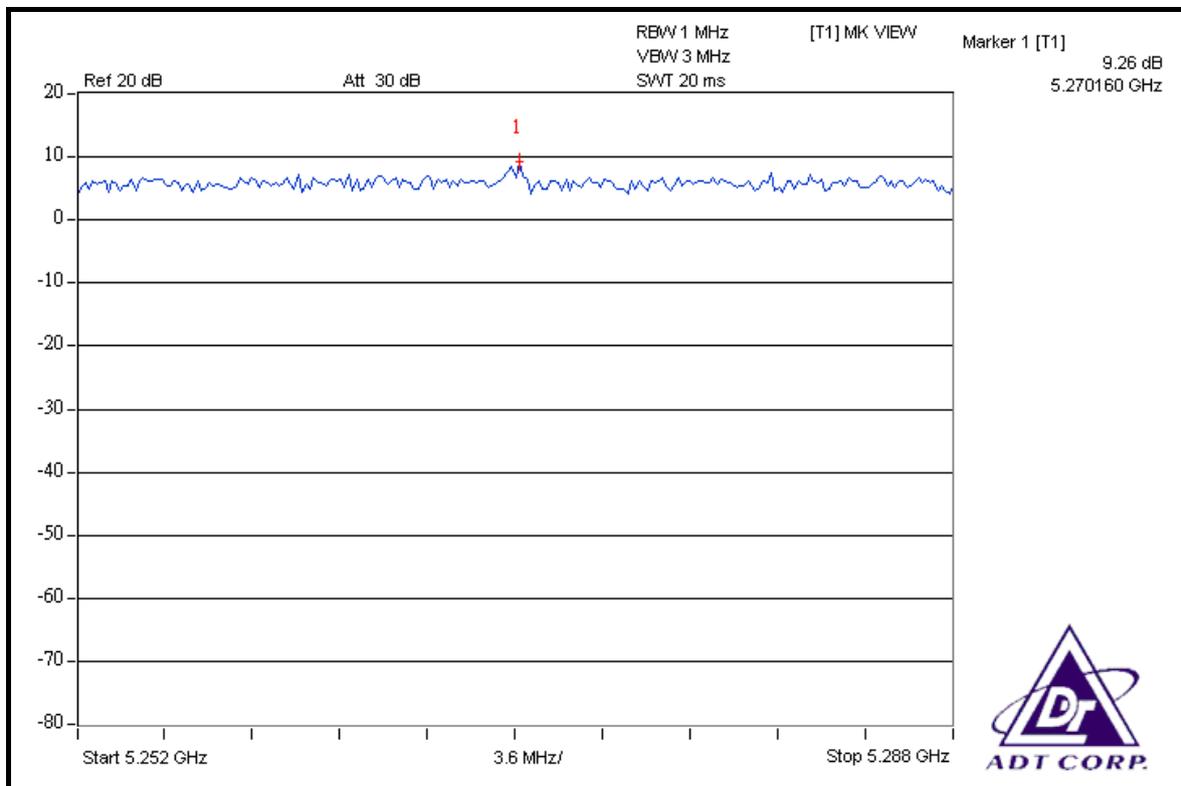
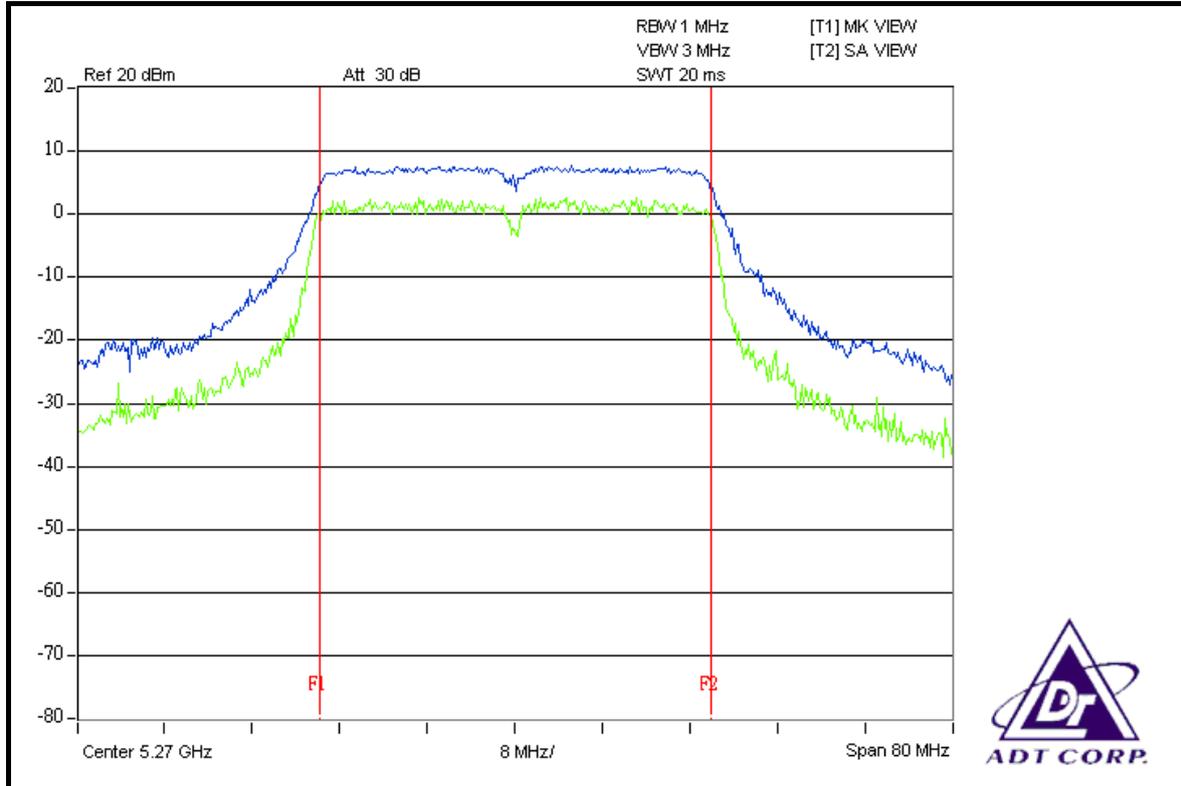
CHAIN 0: CH 38



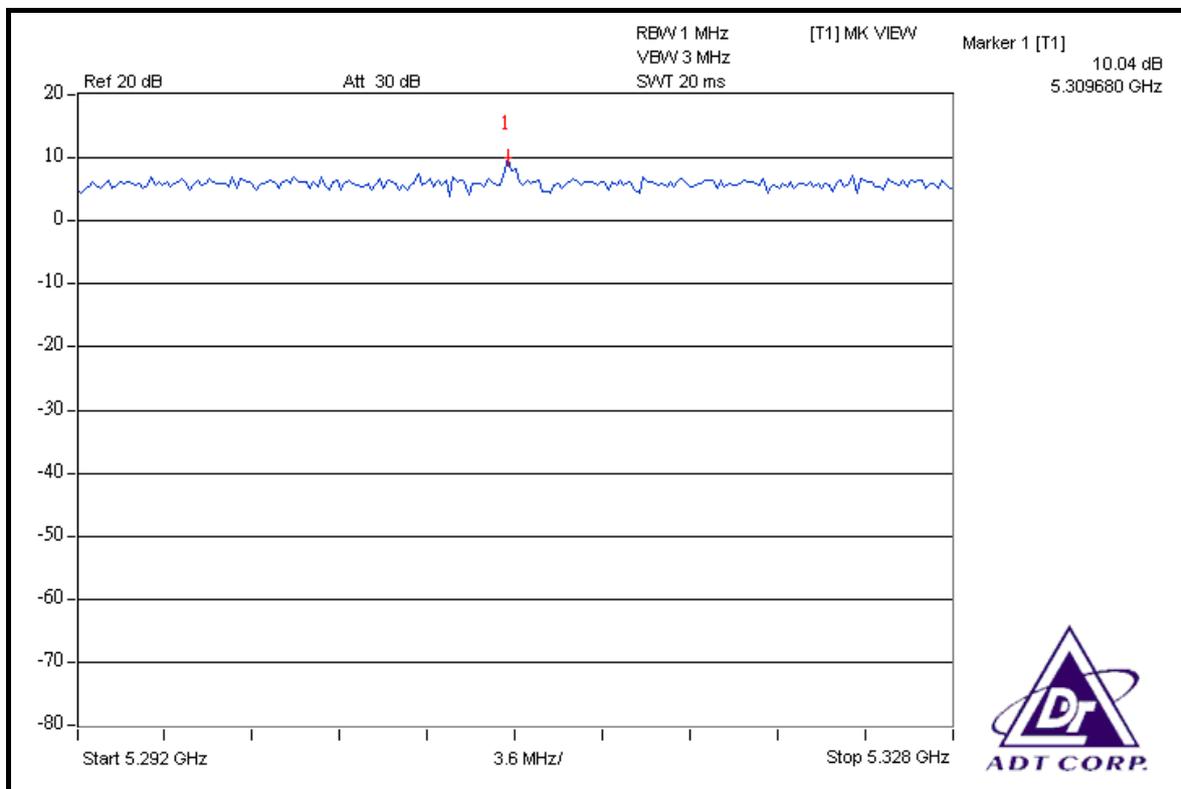
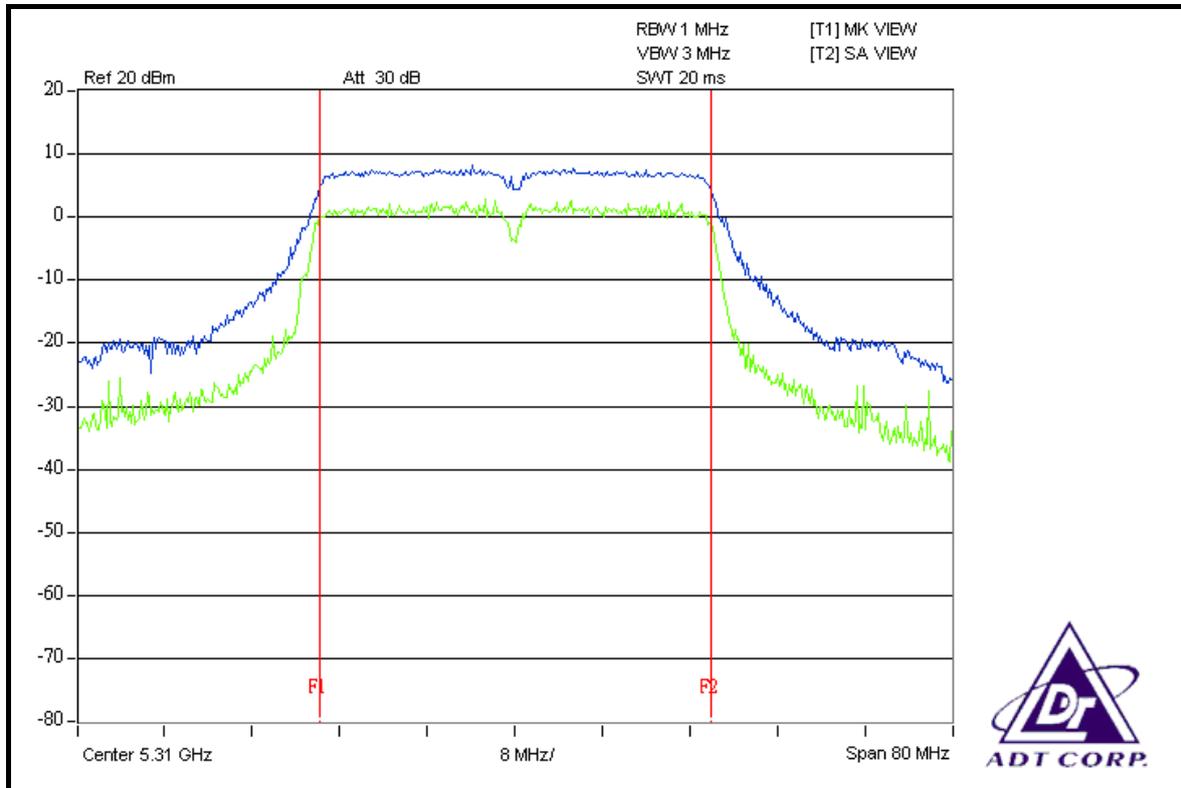
CH 46



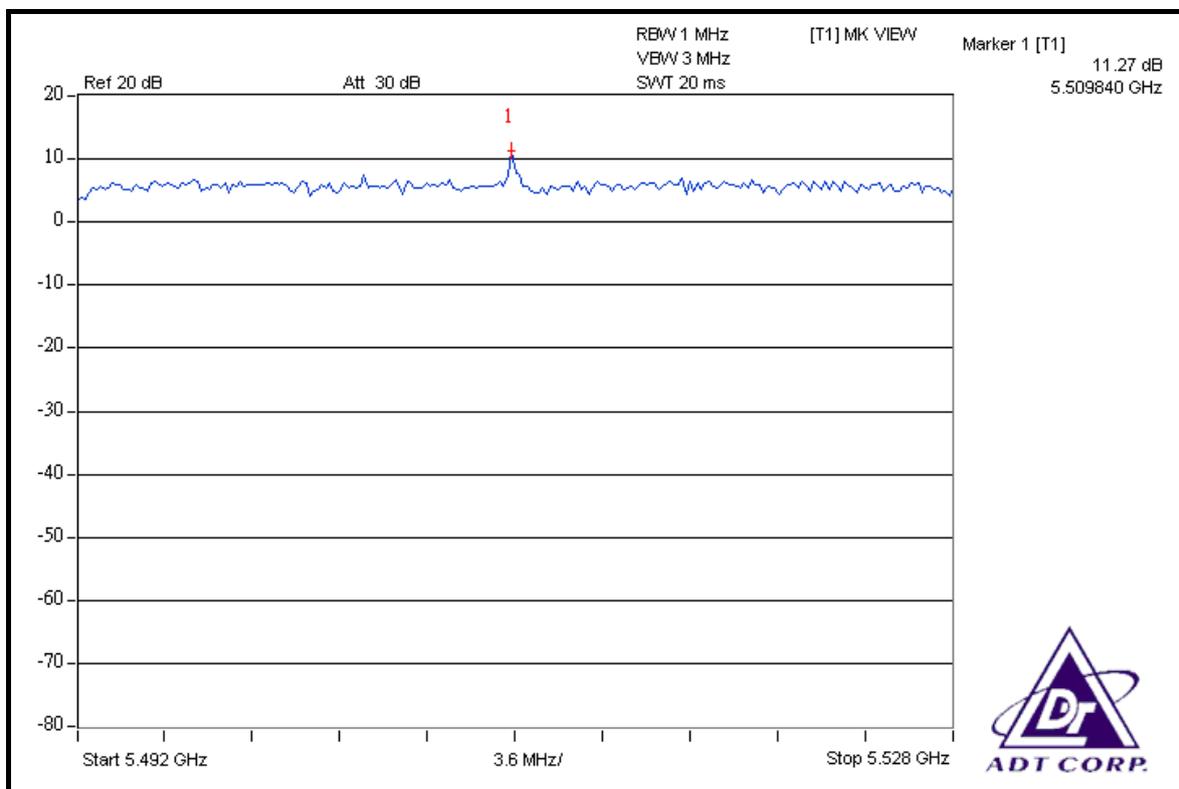
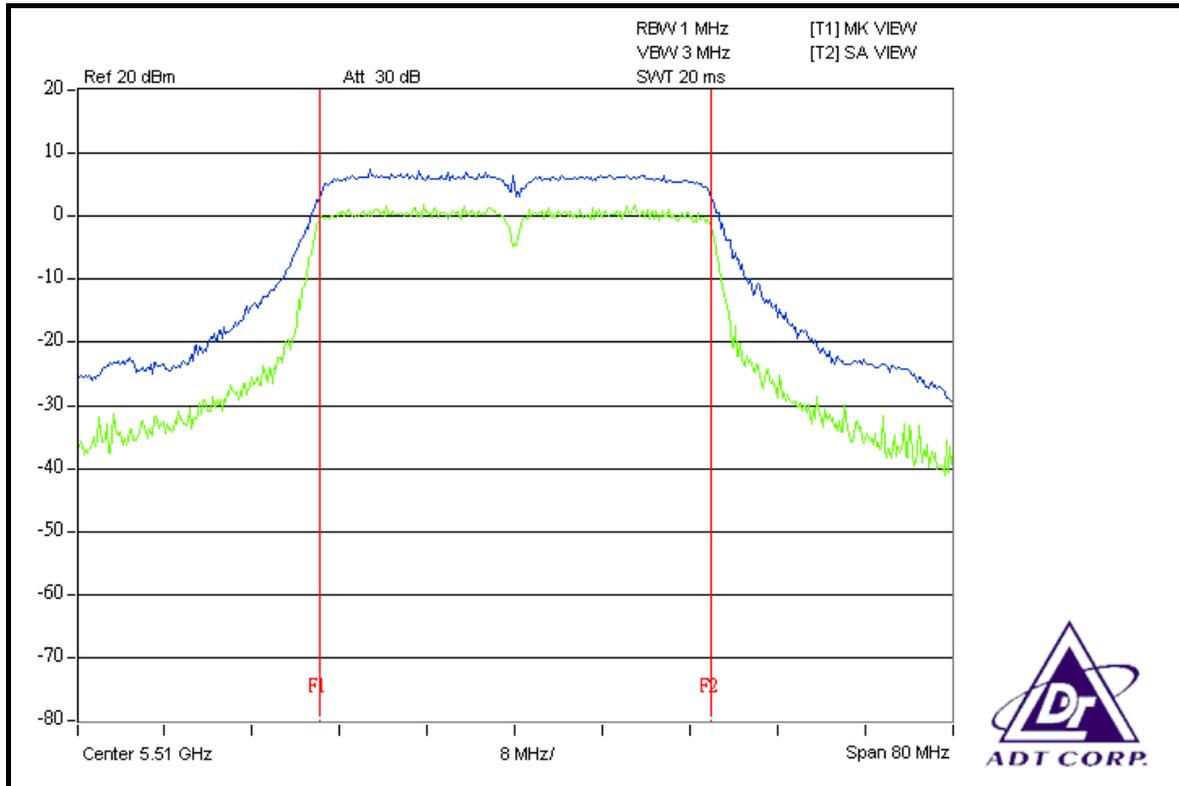
CH 54



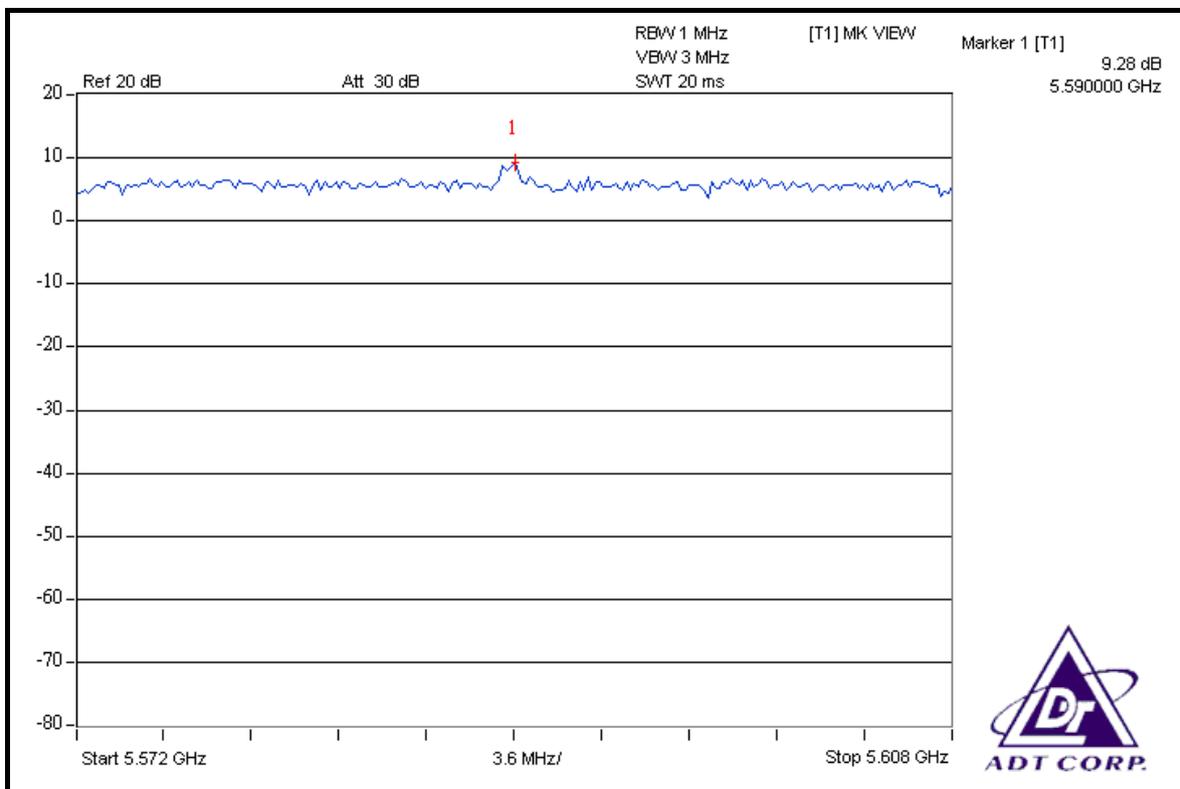
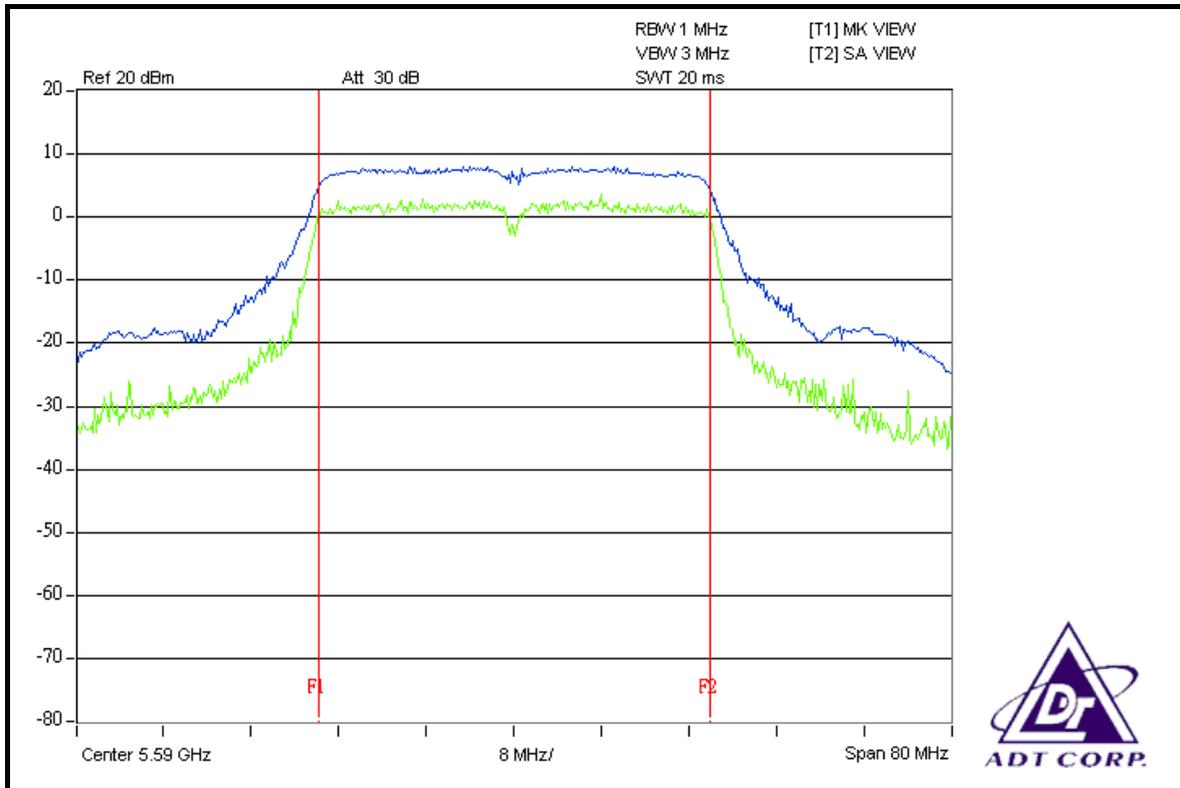
CH 62



CH 102

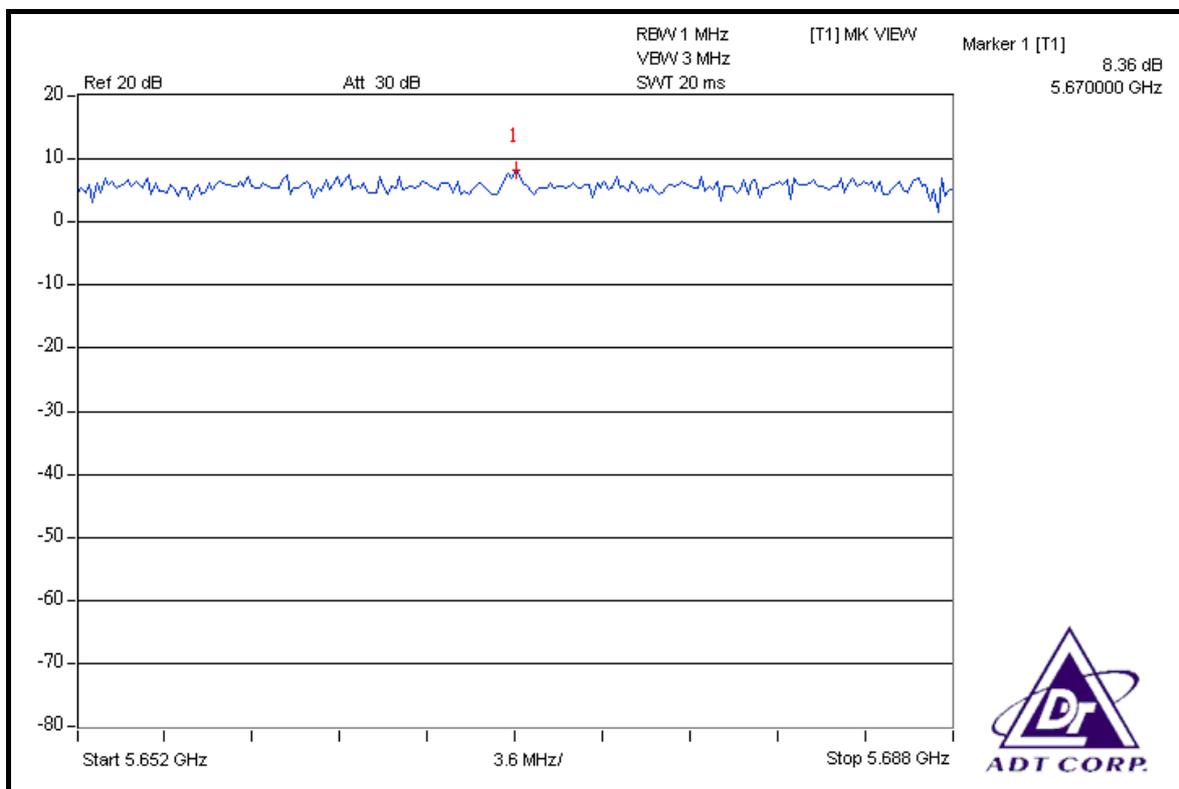
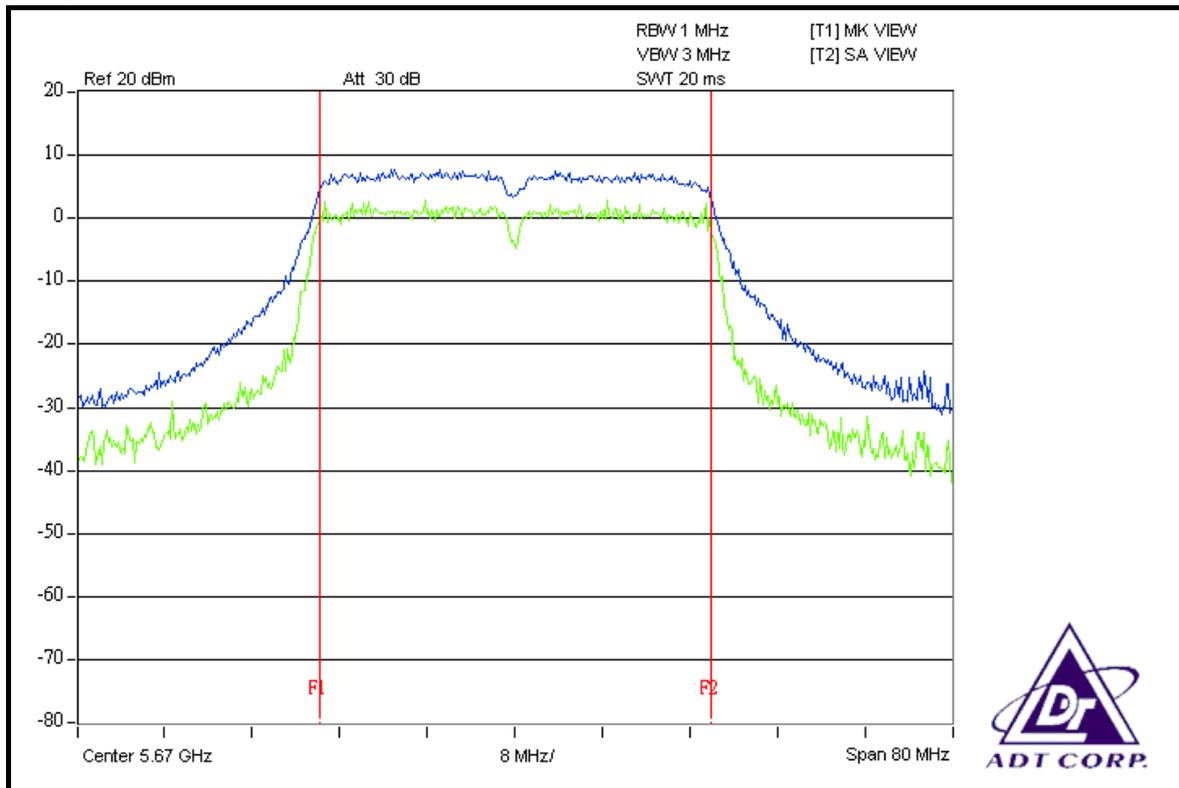


CH 118

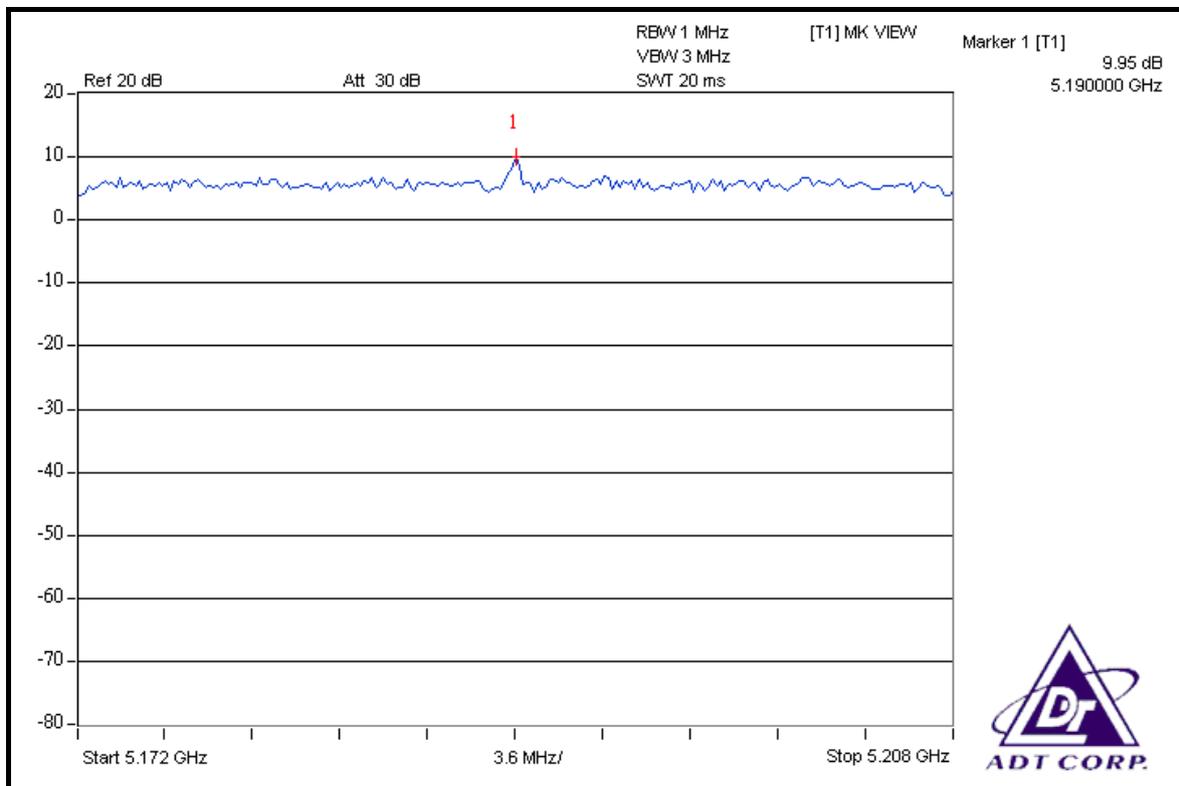
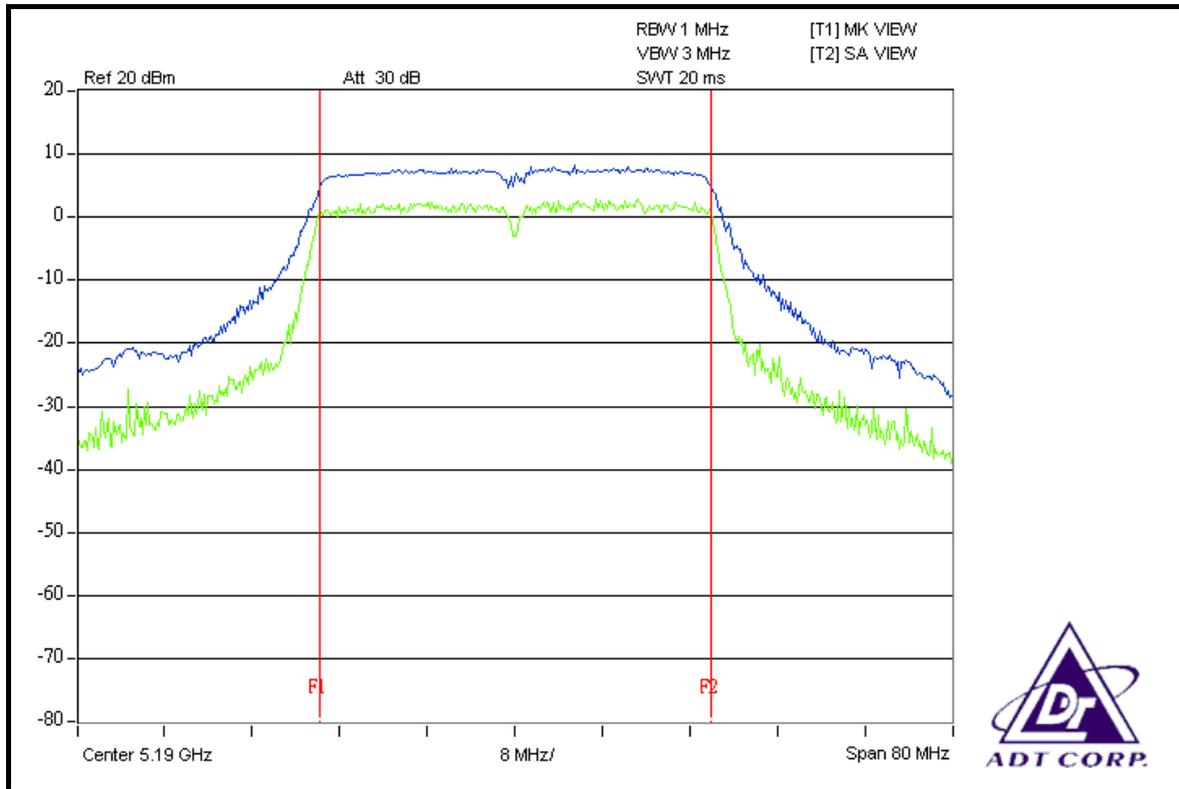




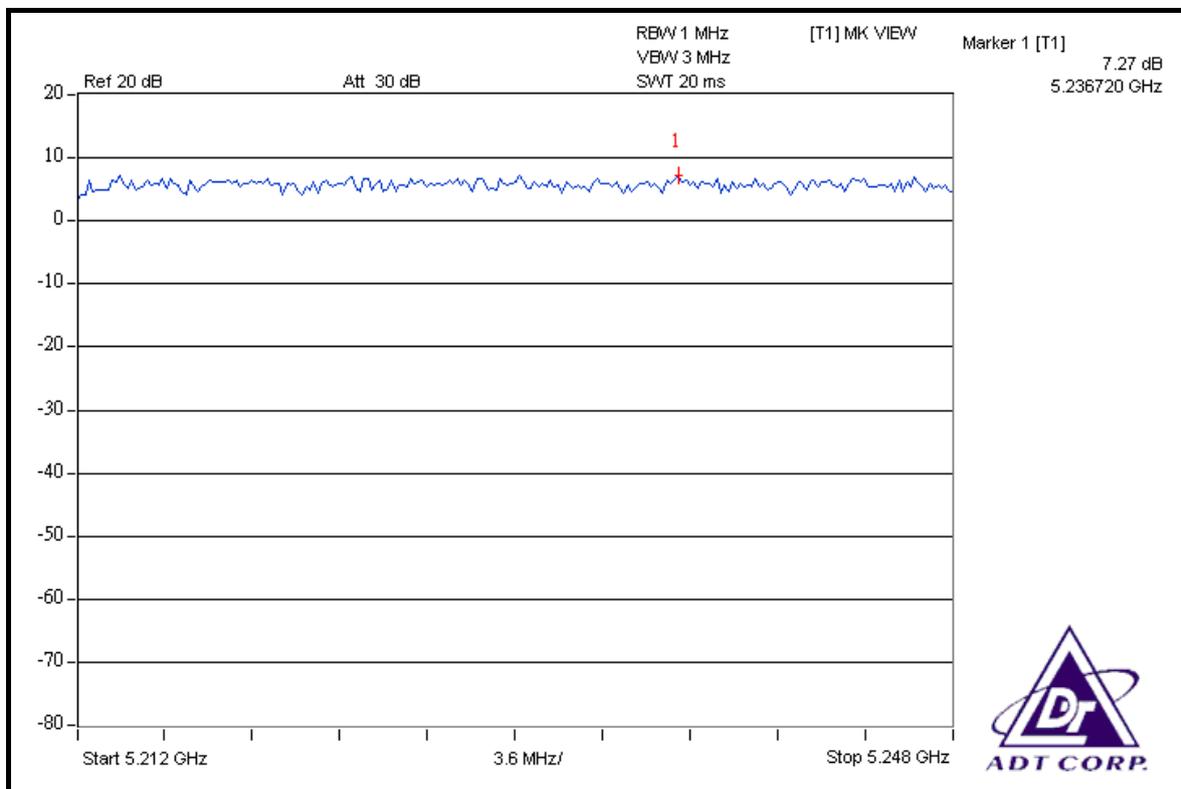
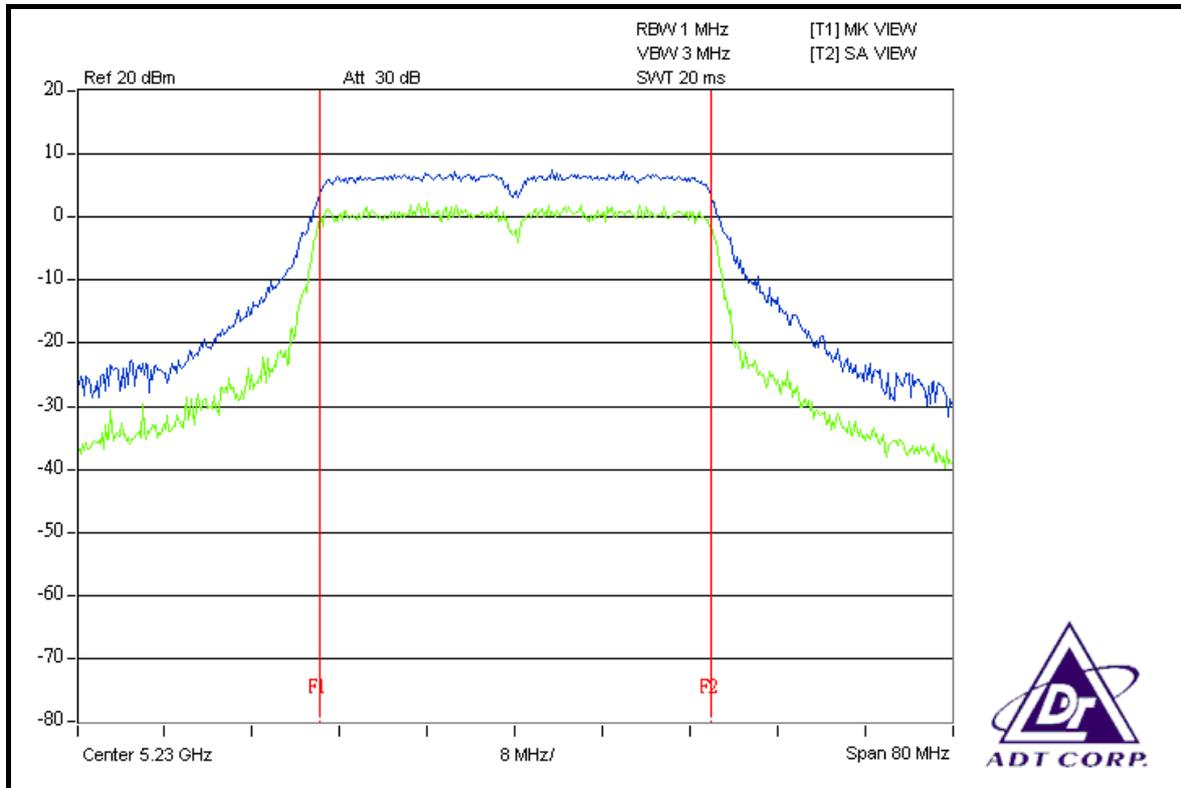
CH 134



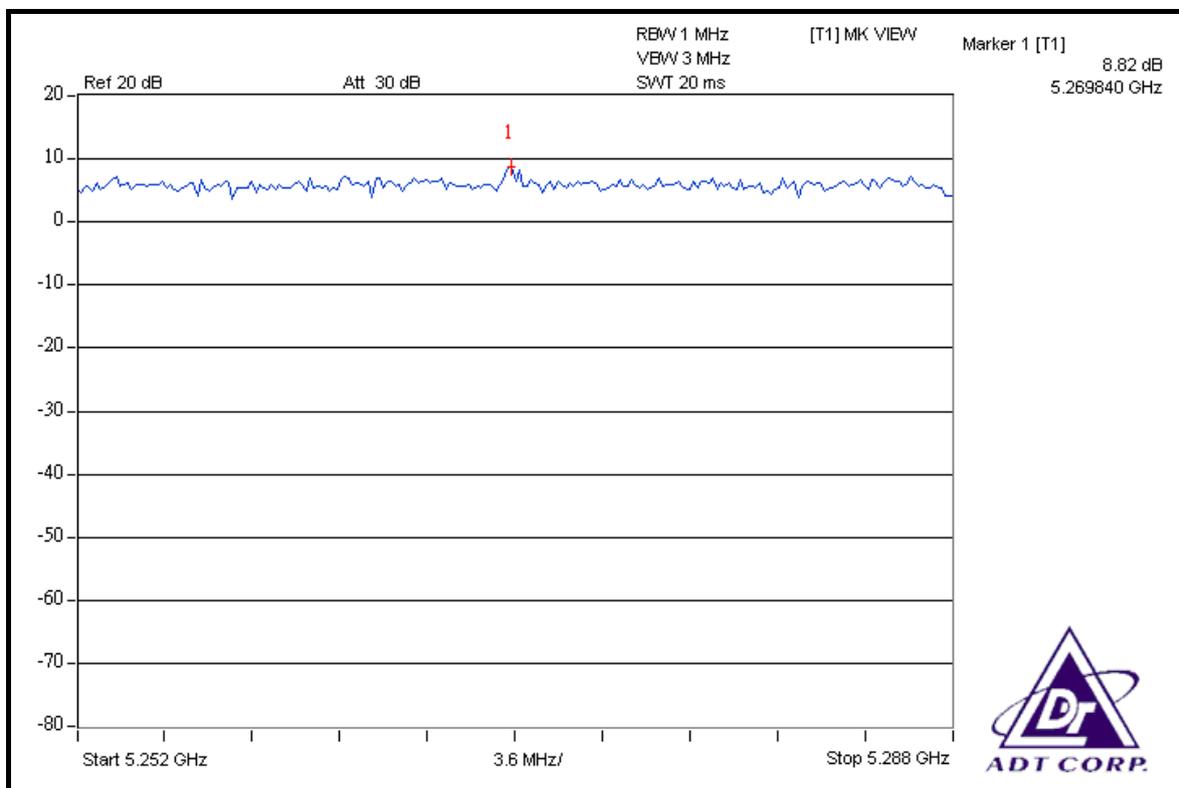
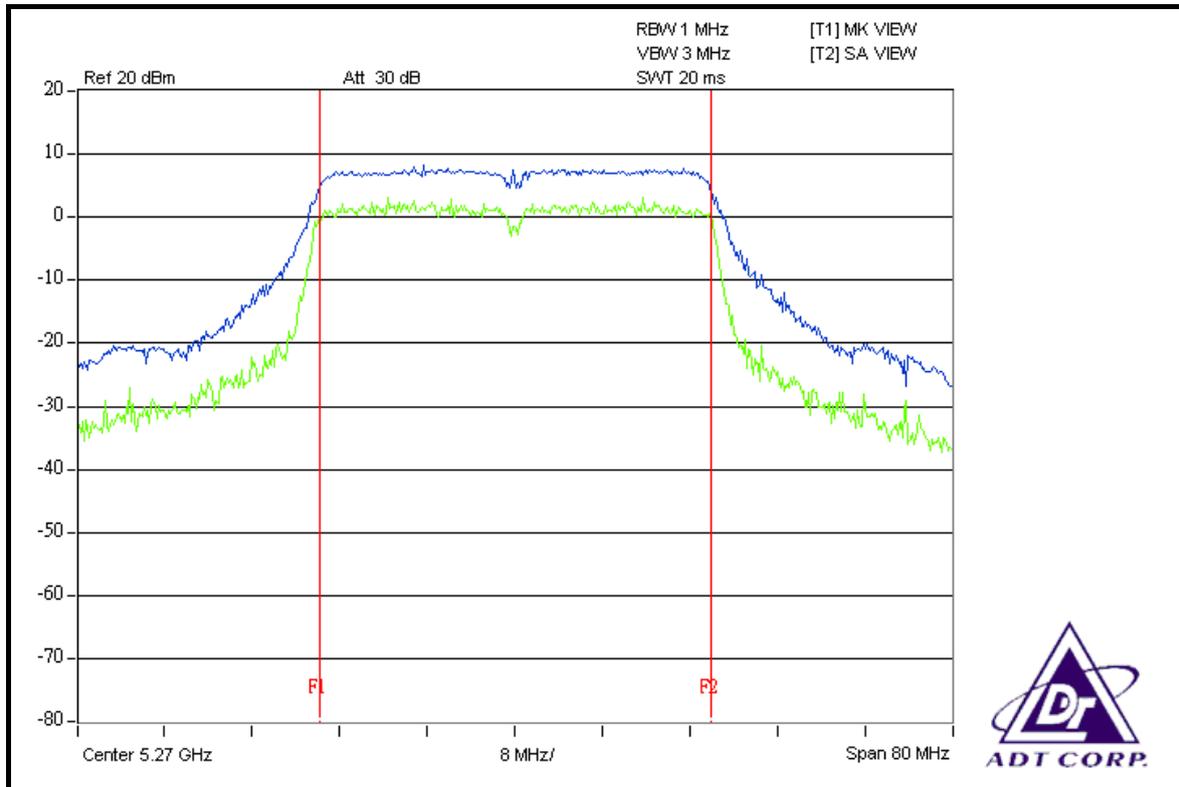
CHAIN 1: CH 38



CH 46

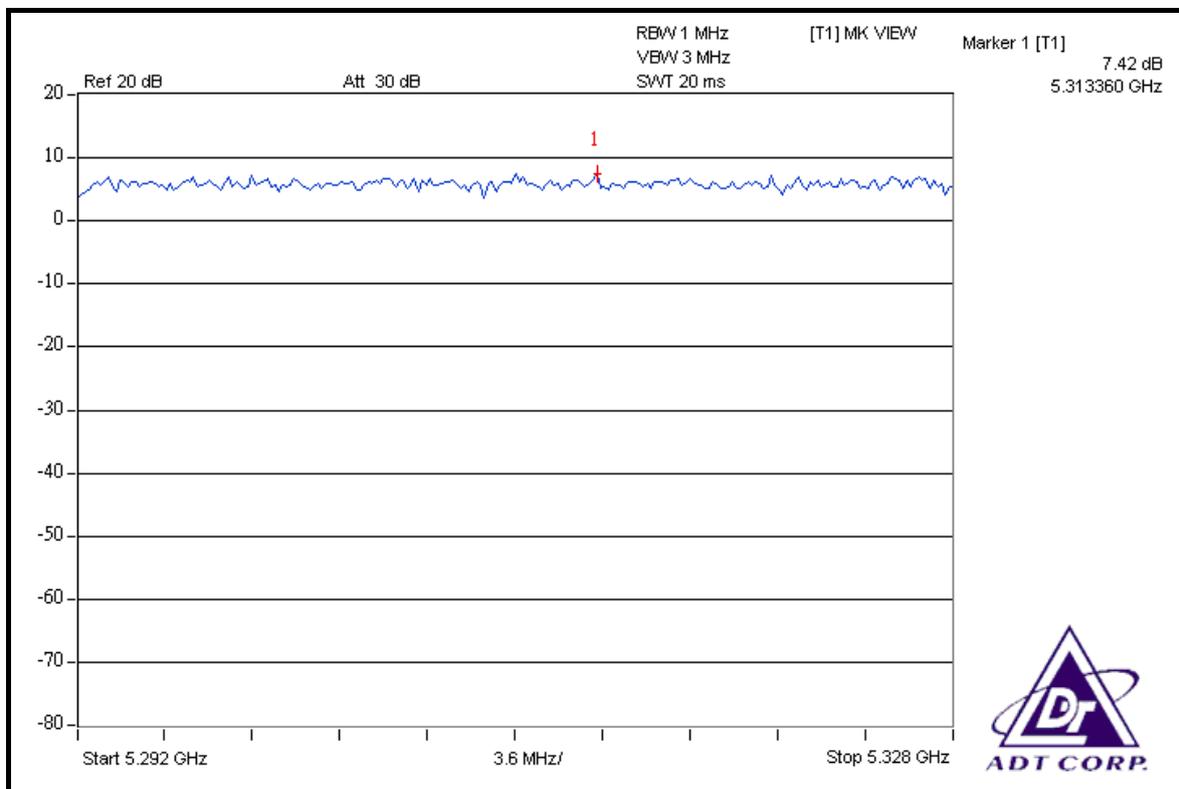
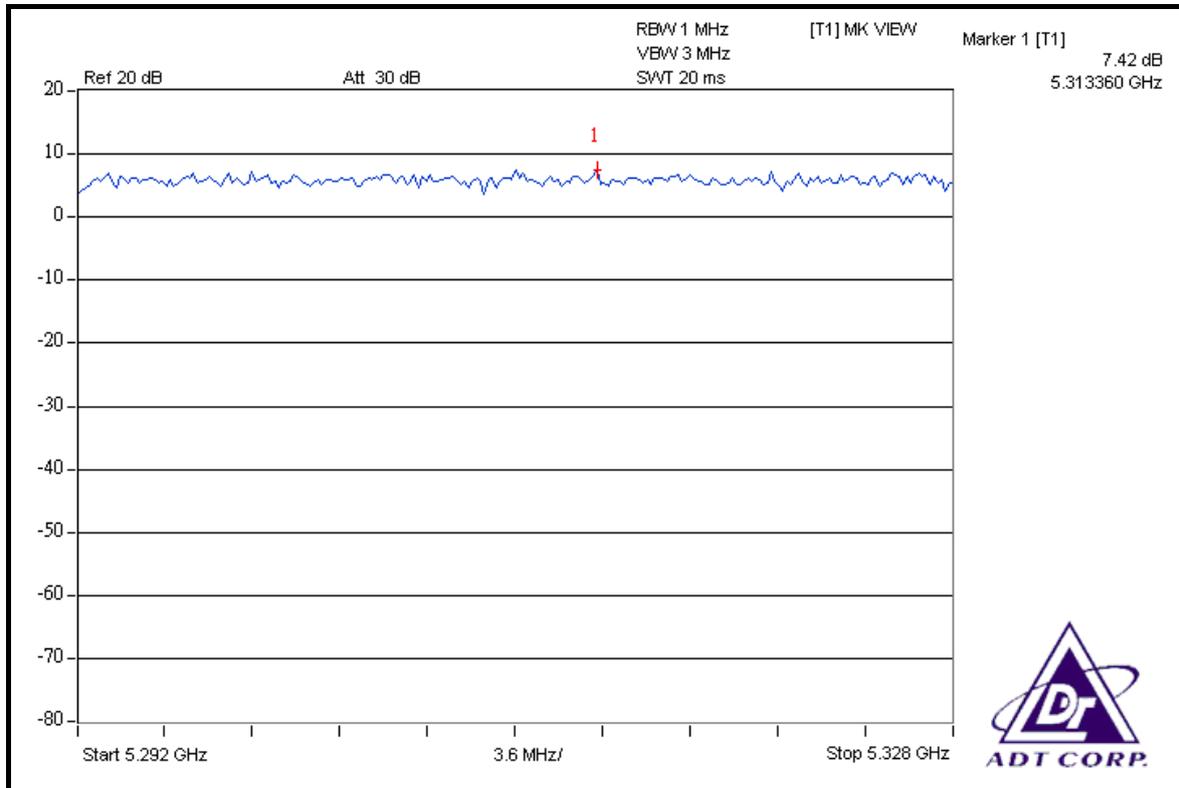


CH 54



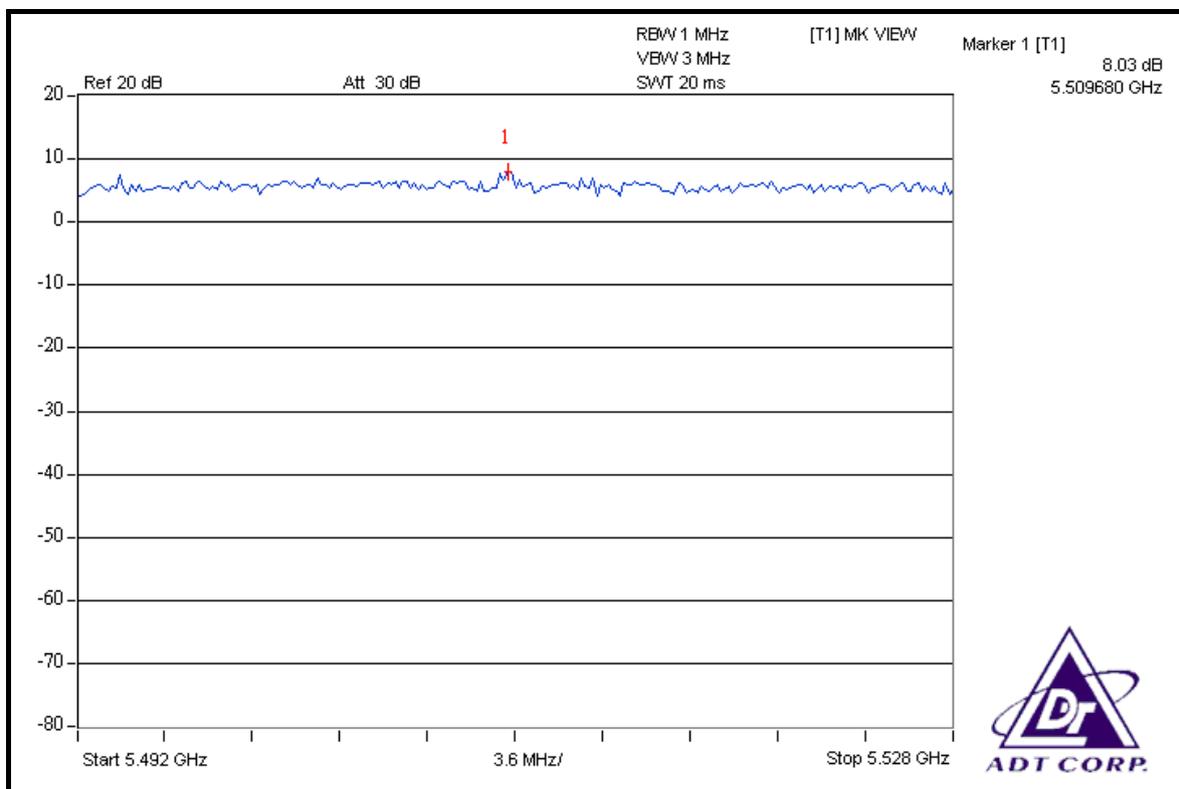
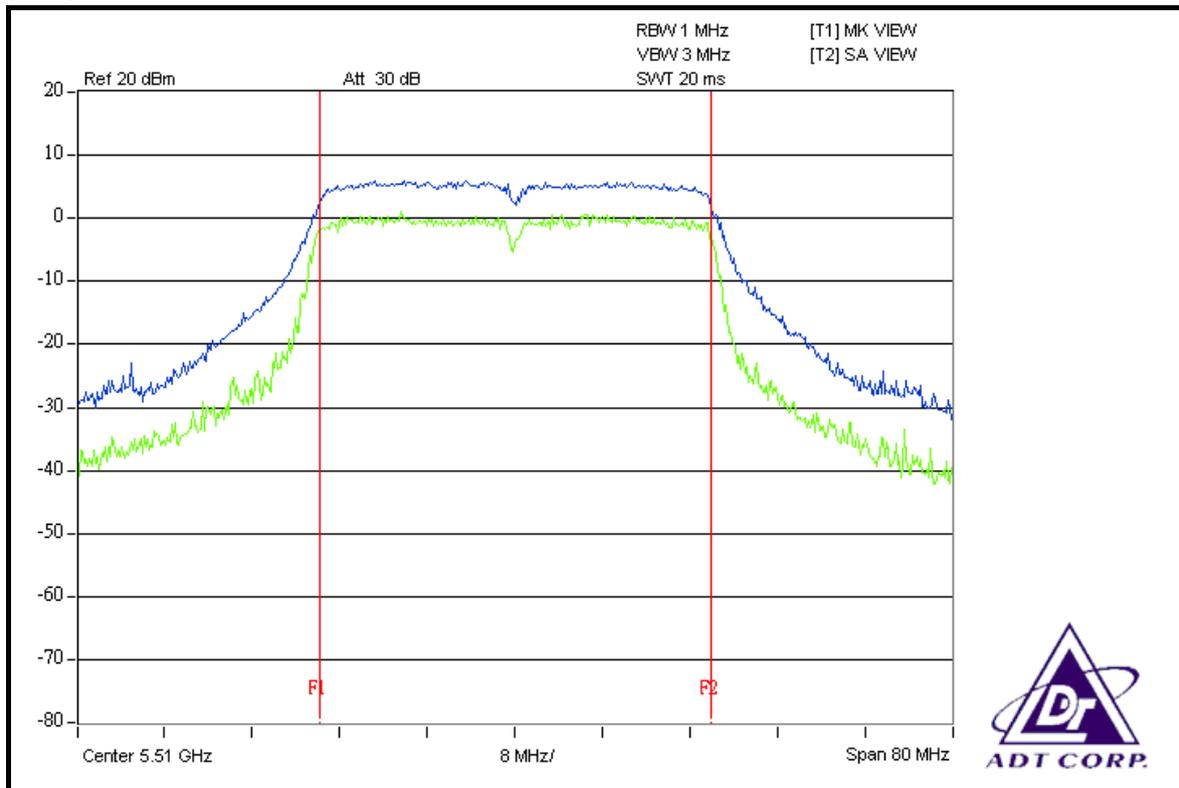


CH 62

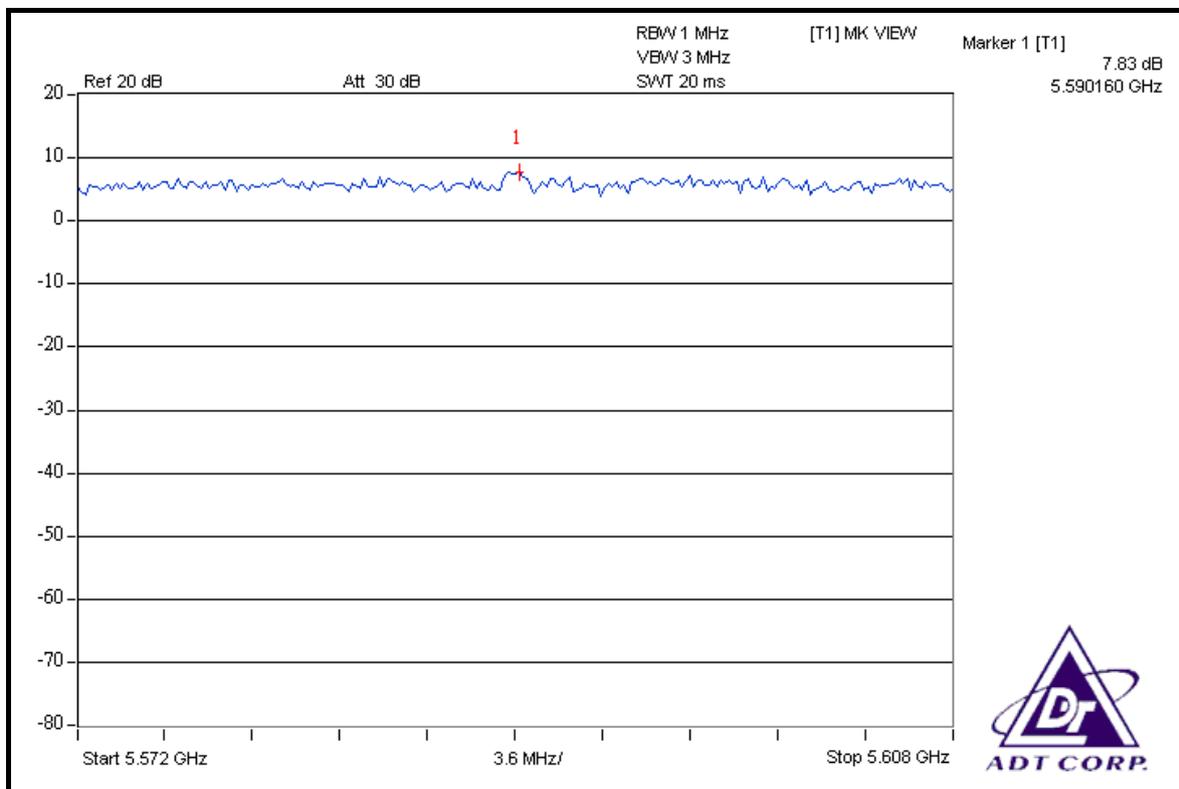
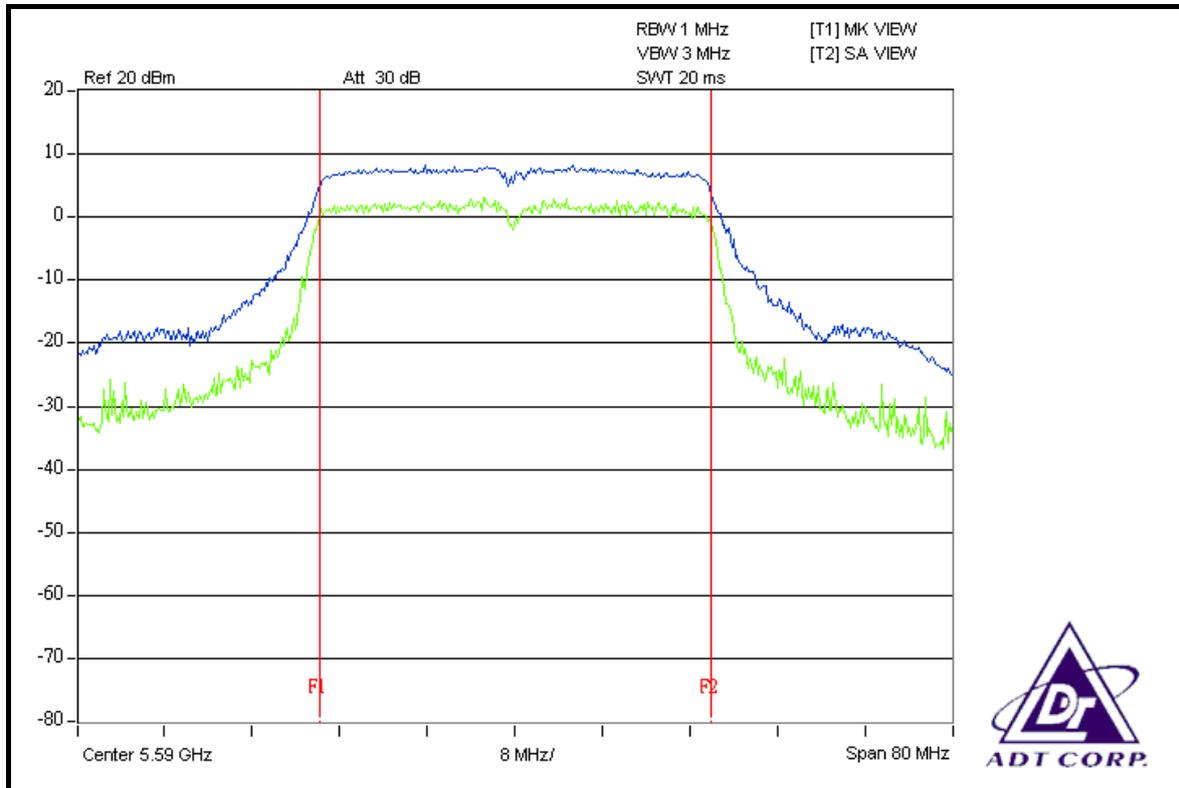




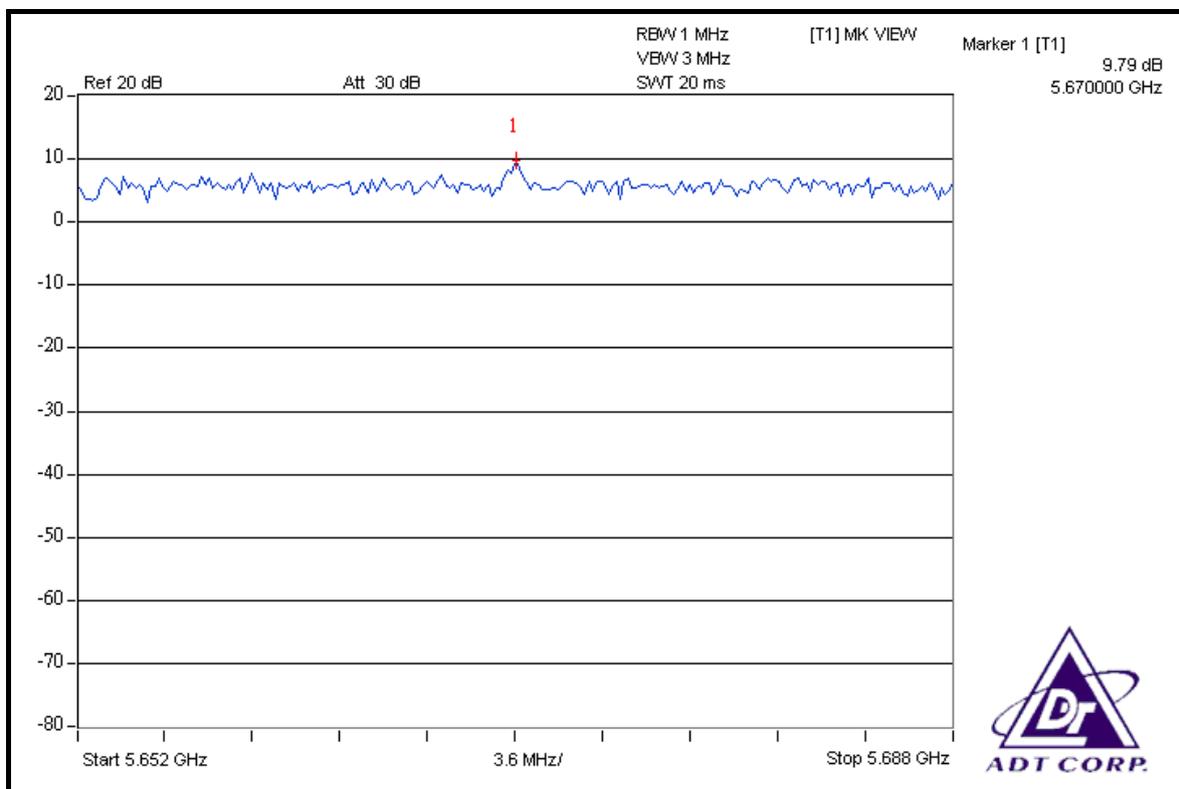
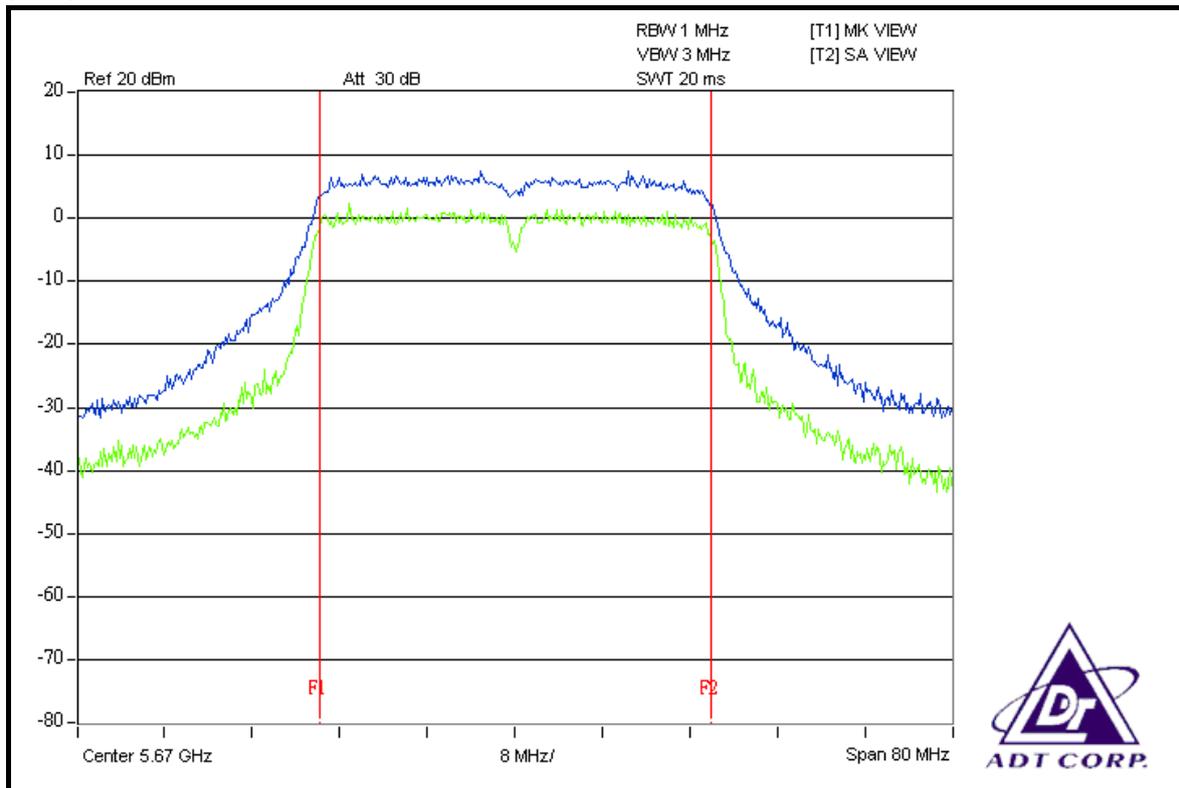
CH 102



CH 118



CH 134





4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

FREQUENCY BAND	LIMIT
5.150 ~ 5.250GHz	4dBm
5.250 ~ 5.350GHz	11dBm
5.470 ~ 5.725GHz	11dBm

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100041	Apr. 22, 2008	Apr. 21, 2009

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

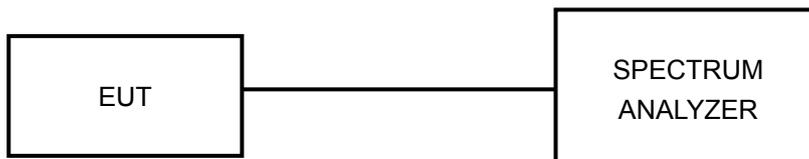
4.5.3 TEST PROCEDURES

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW = 1MHz, VBW = 3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP



4.5.6 EUT OPERATING CONDITIONS

Same as 5.3.6

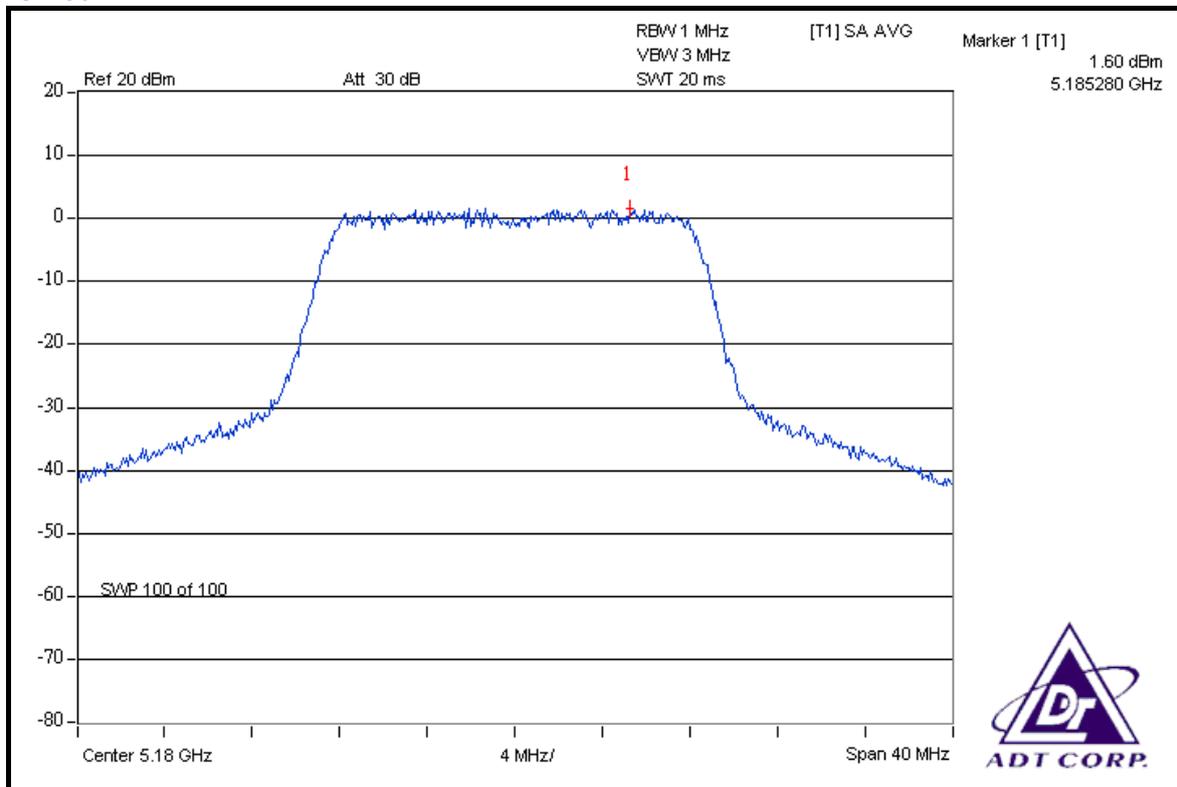
4.5.7 TEST RESULTS

802.11a OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	6.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

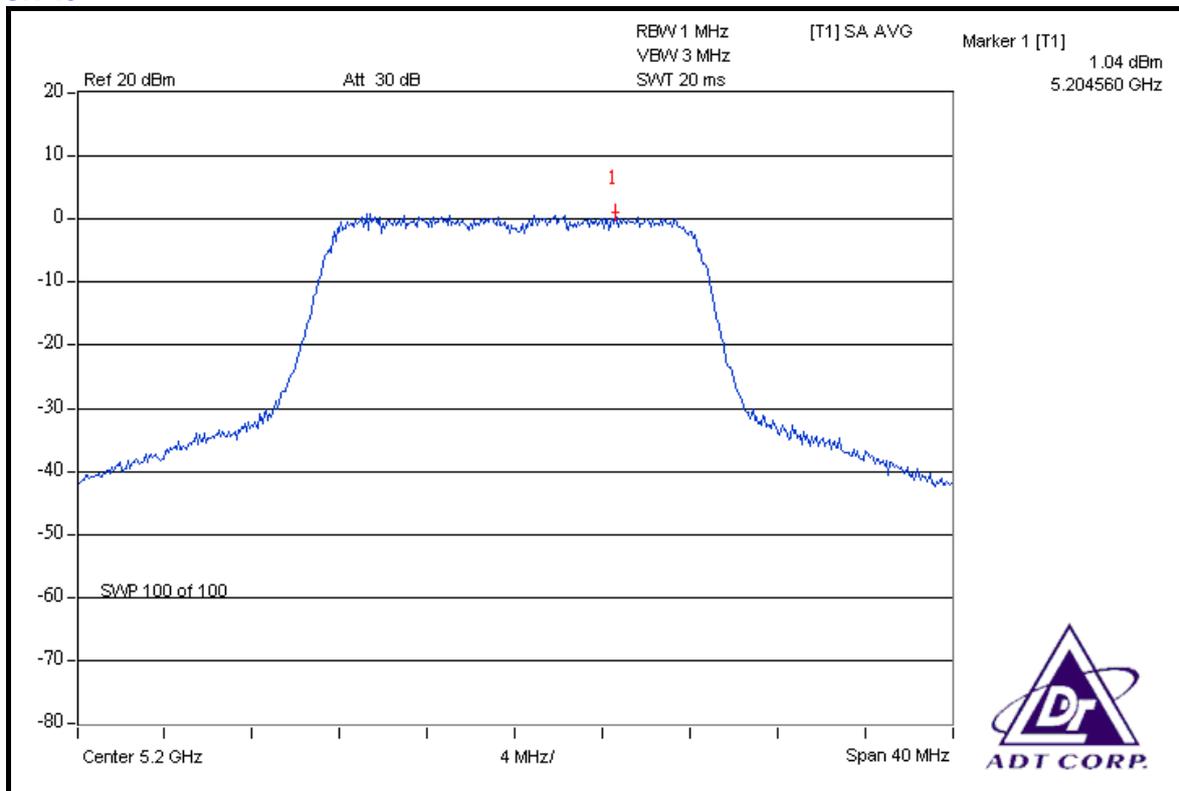
CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS / FAIL
36	5180	1.60	4	PASS
40	5200	1.04	4	PASS
48	5240	0.90	4	PASS
52	5260	1.23	11	PASS
60	5300	1.07	11	PASS
64	5320	1.17	11	PASS
100	5500	0.99	11	PASS
120	5600	0.90	11	PASS
140	5700	-0.29	11	PASS

CH 36

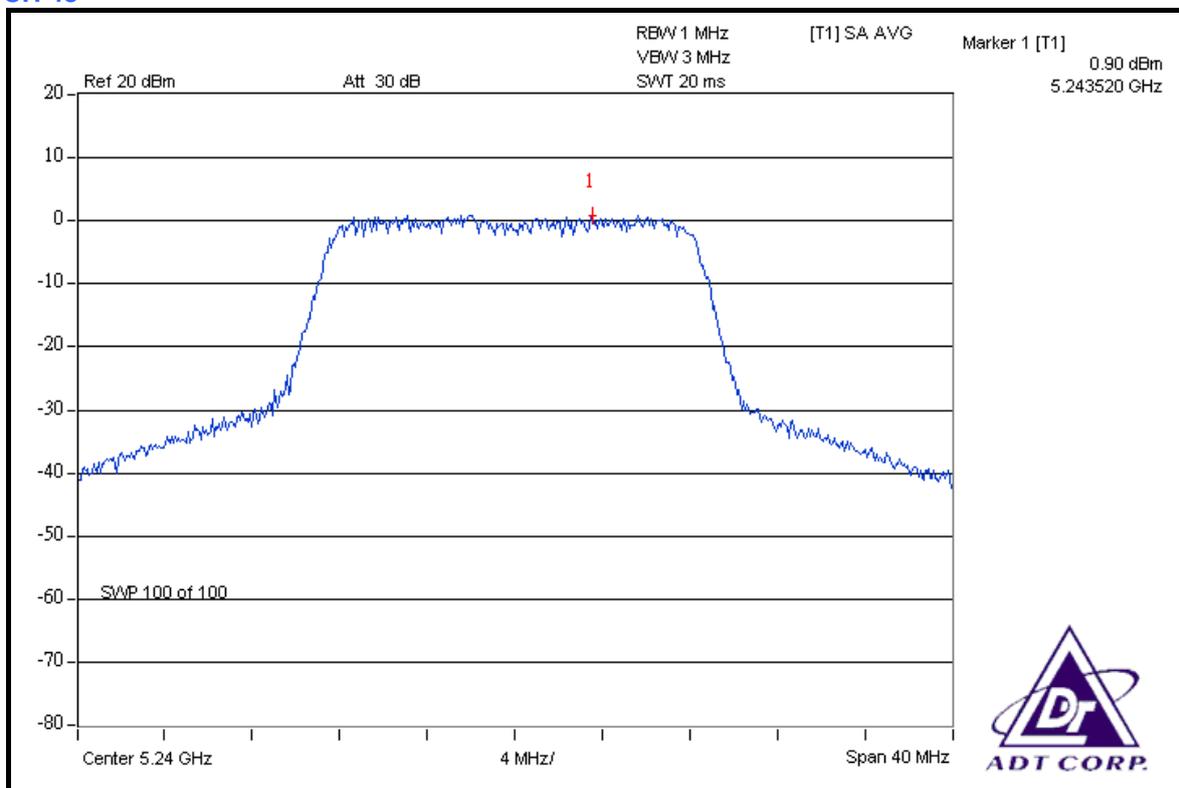




CH 40

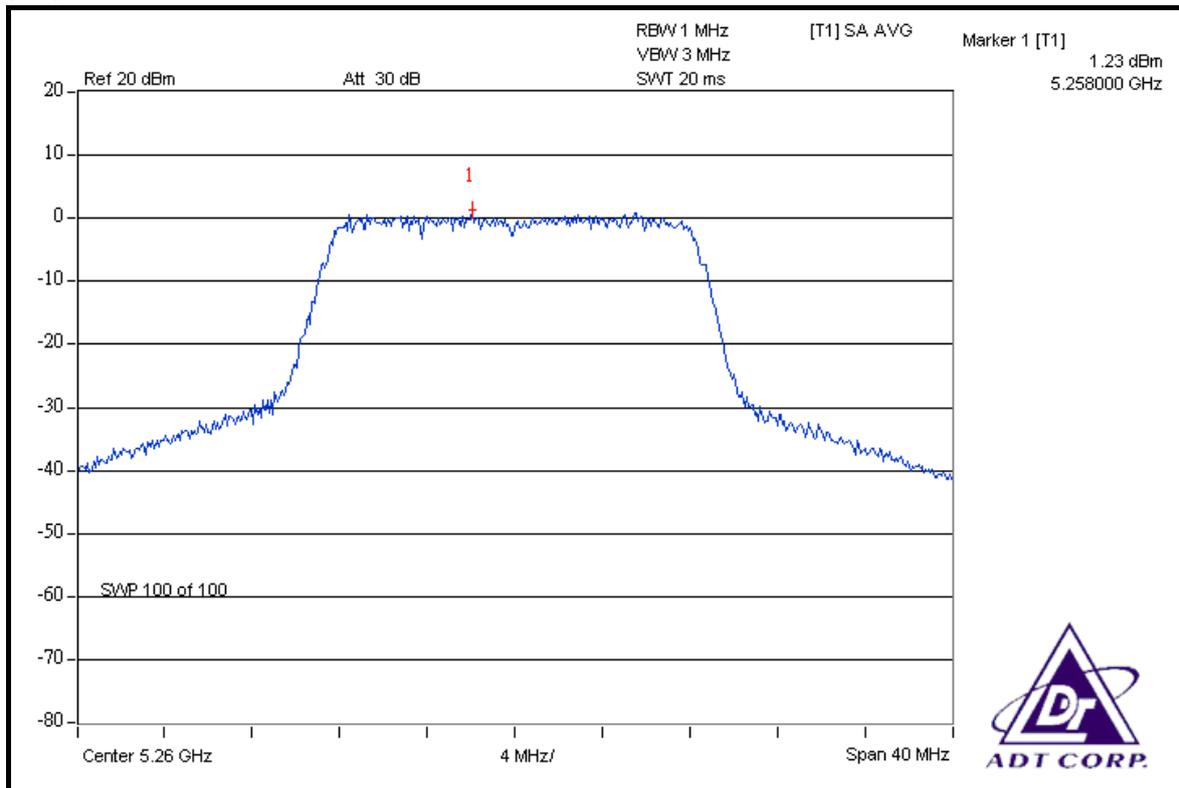


CH 48

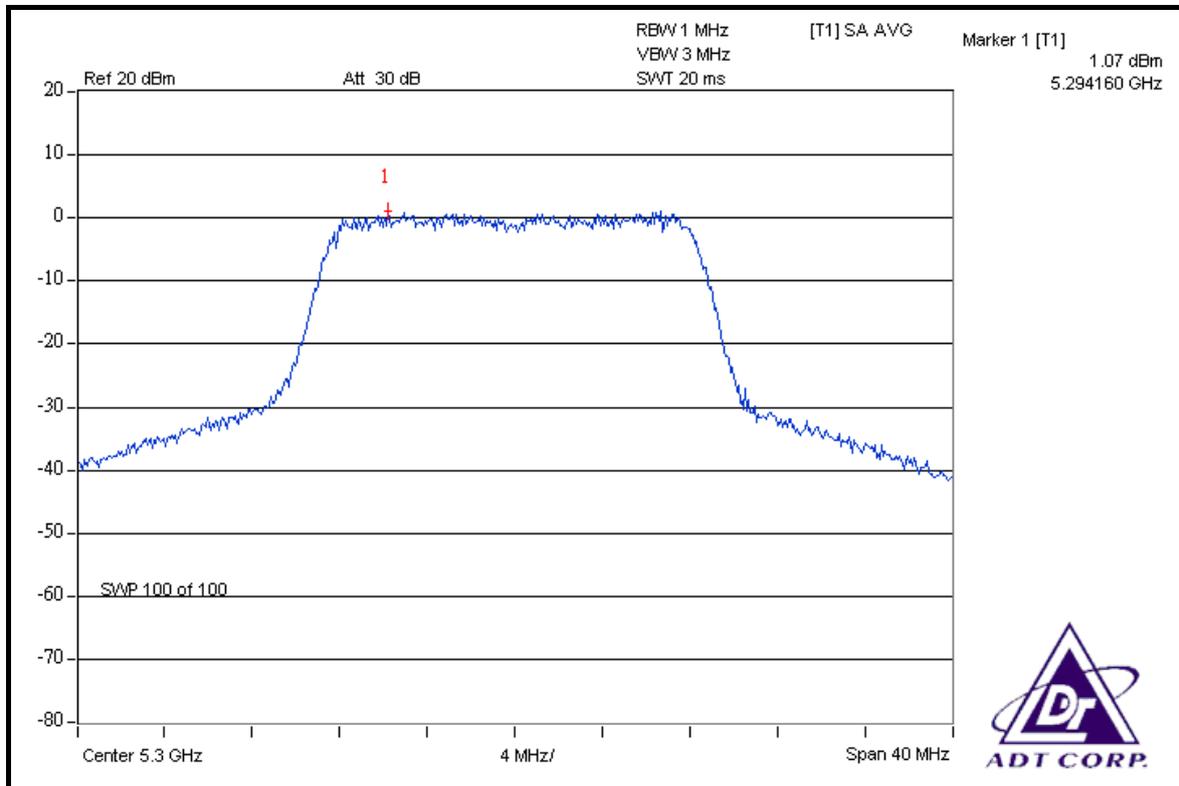




CH 52

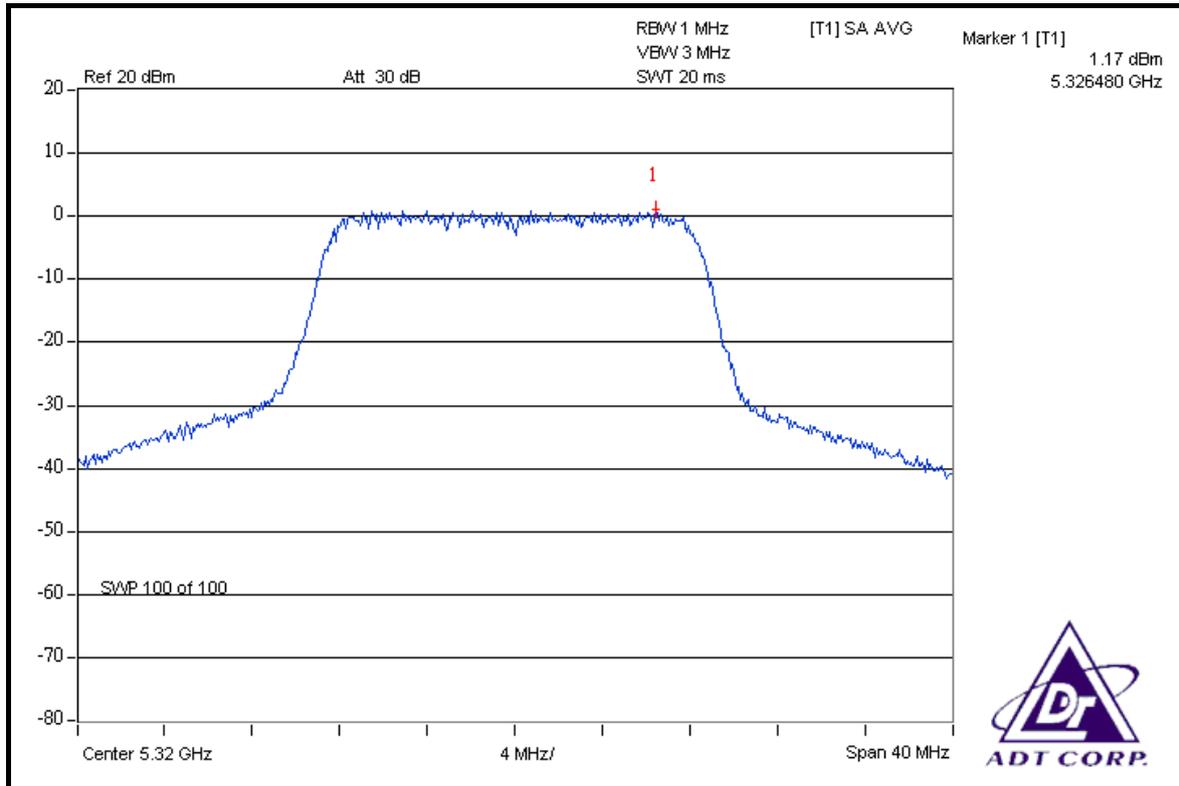


CH 60

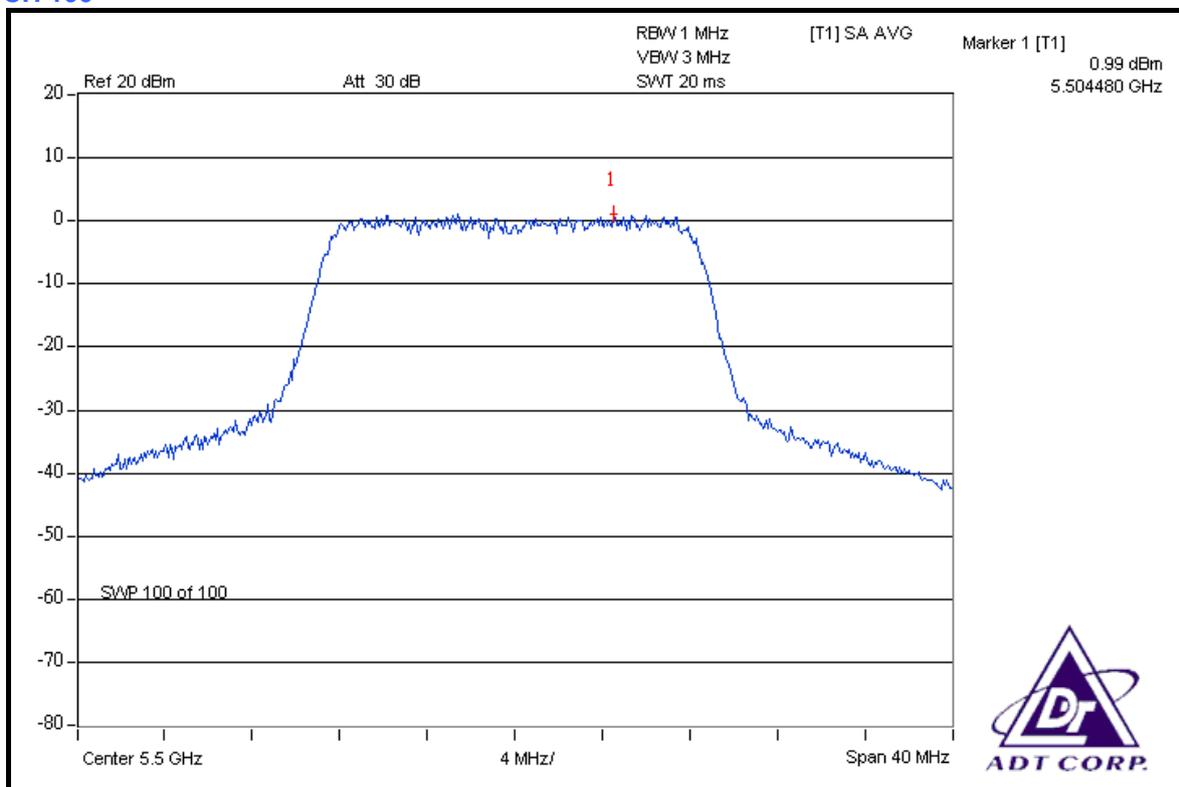




CH 64

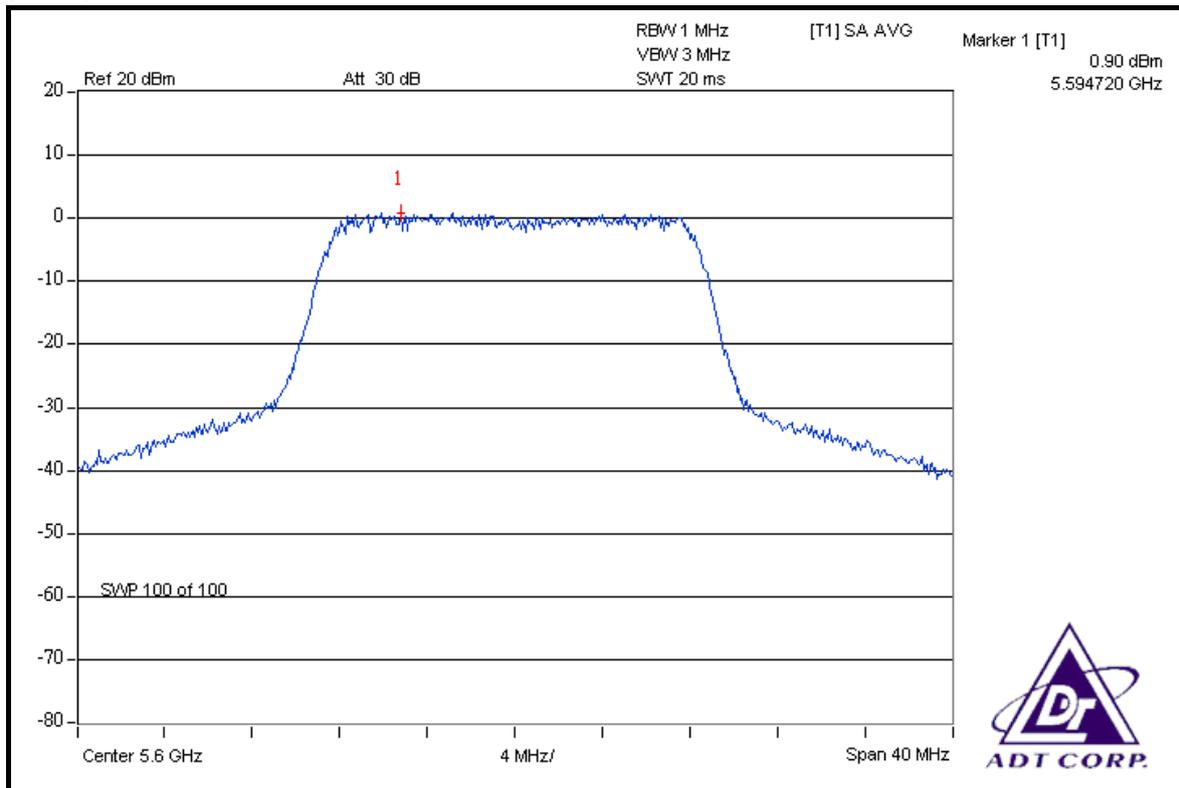


CH 100

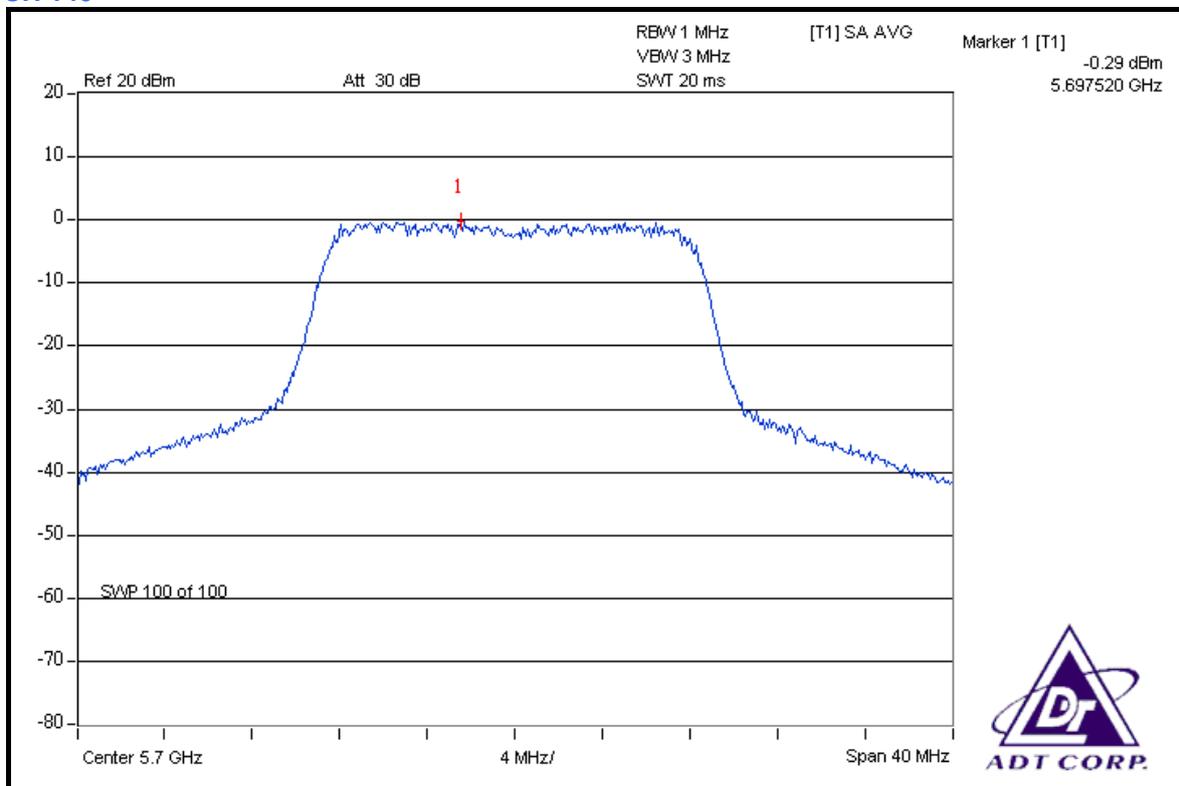




CH 120



CH 140





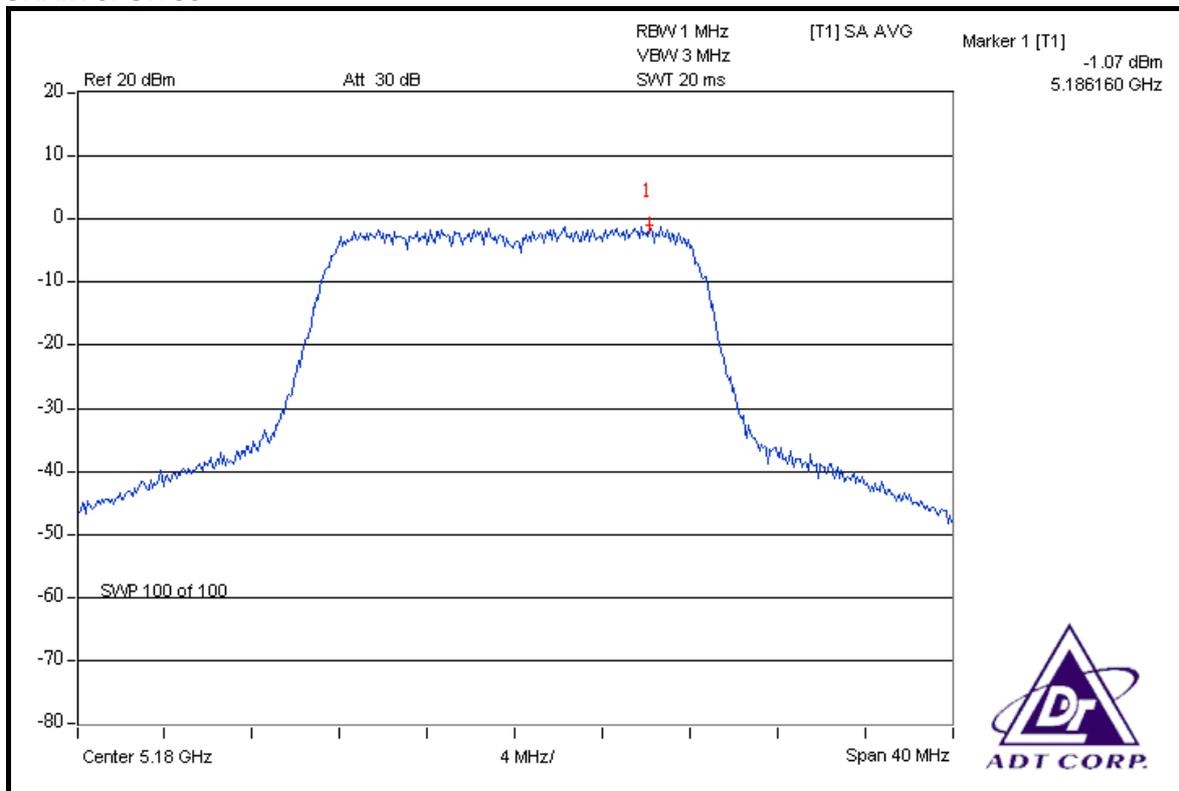
DRAFT 802.11n (20MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	7.2Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

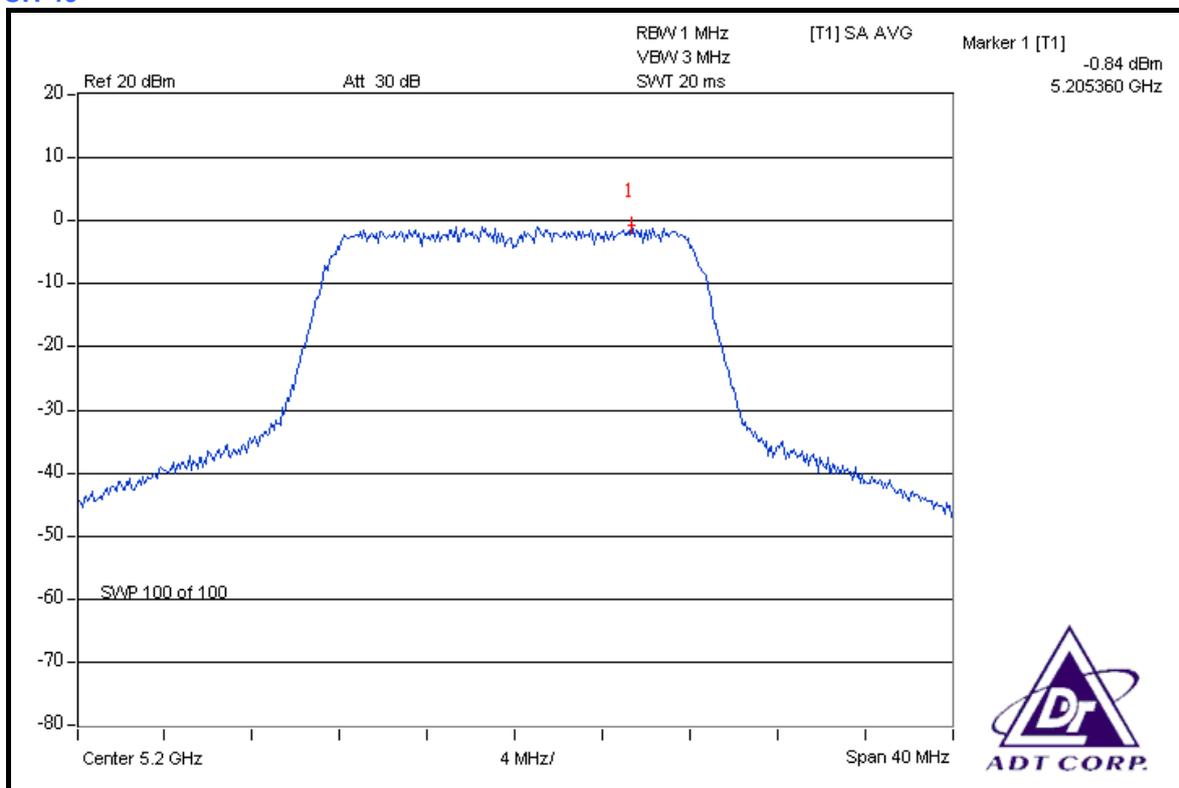
CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
36	5180	-1.07	-1.56	1.480	1.70	4	PASS
40	5200	-0.84	-1.67	1.505	1.78	4	PASS
48	5240	-1.14	-1.51	1.475	1.69	4	PASS
52	5260	-1.00	-1.49	1.504	1.77	11	PASS
60	5300	-1.08	-1.49	1.489	1.73	11	PASS
64	5320	-0.96	-1.32	1.540	1.87	11	PASS
100	5500	-0.99	-1.48	1.507	1.78	11	PASS
120	5600	-1.10	-1.50	1.484	1.71	11	PASS
140	5700	-2.33	-2.91	1.096	0.40	11	PASS



CHAIN 0: CH 36

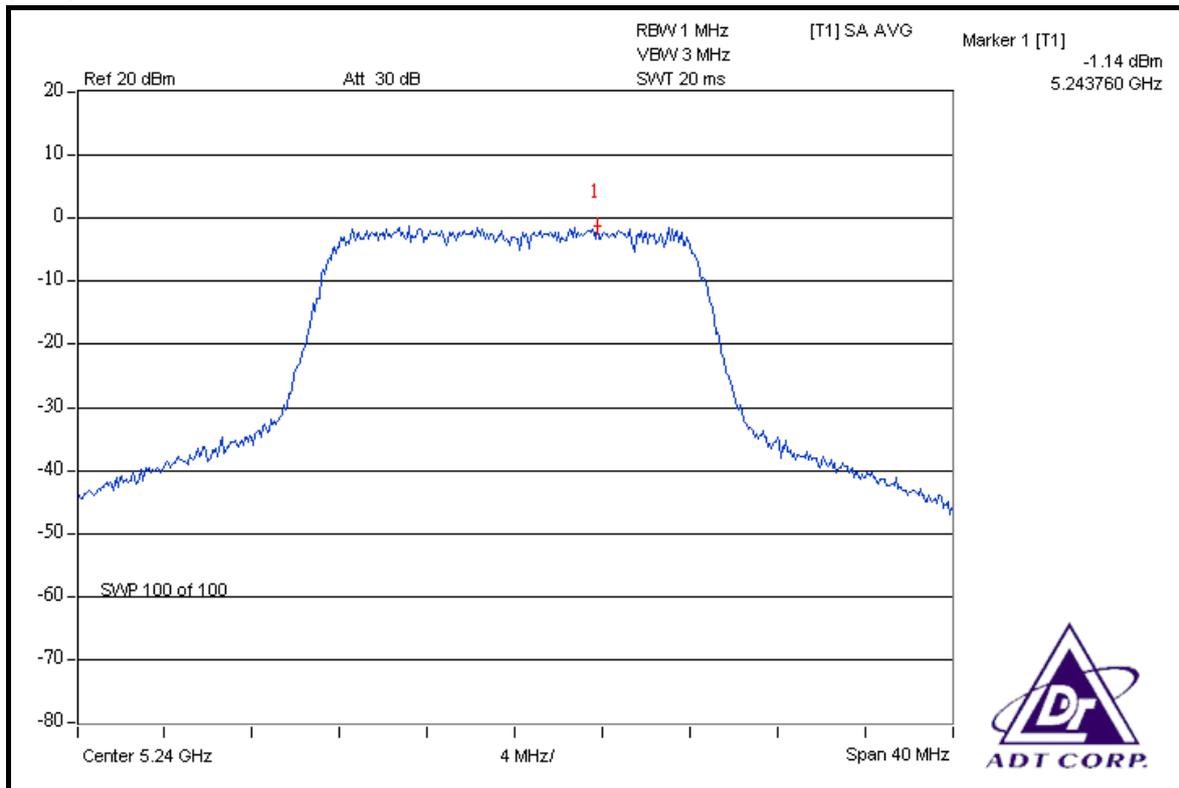


CH 40

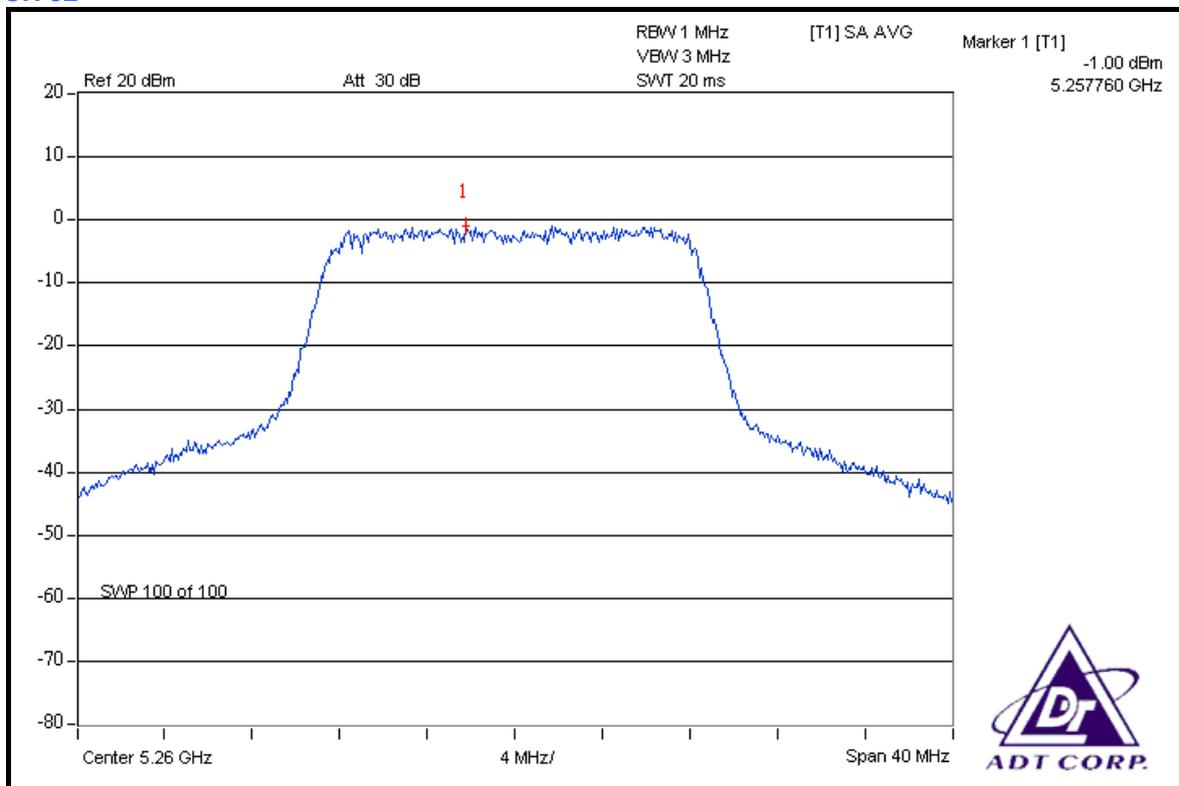




CH 48

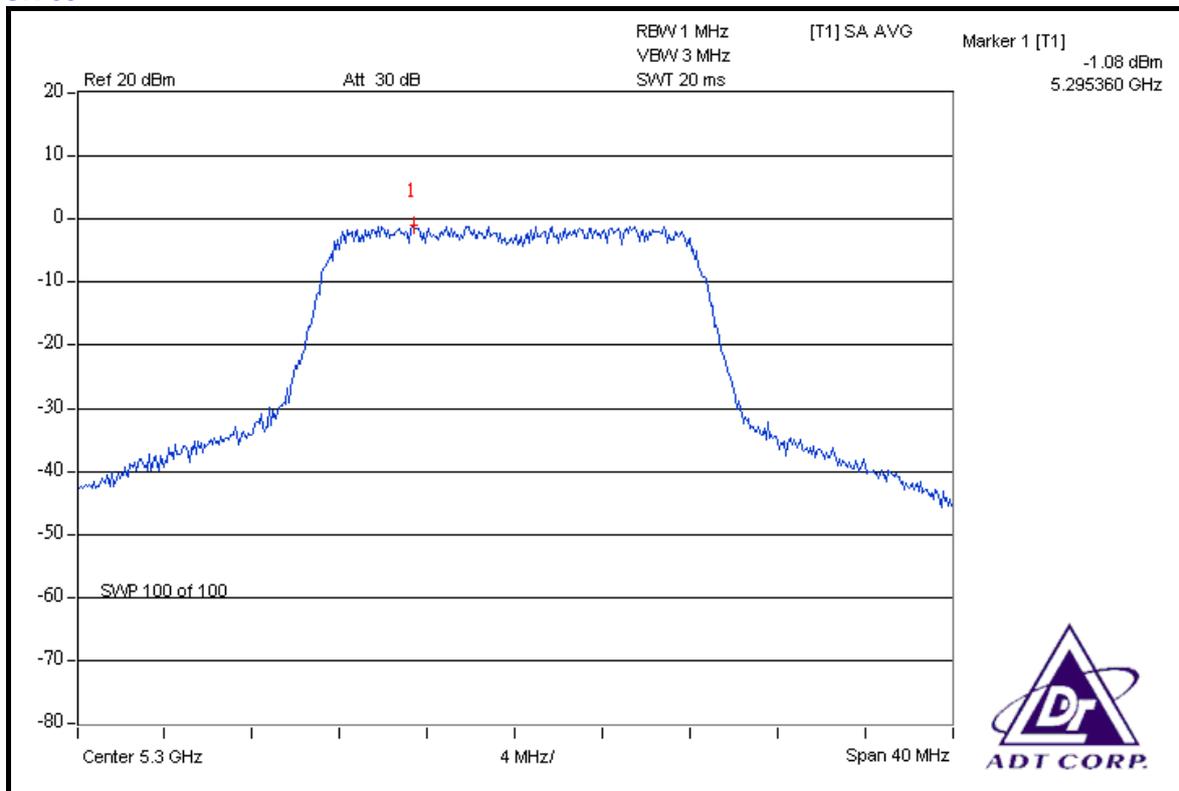


CH 52

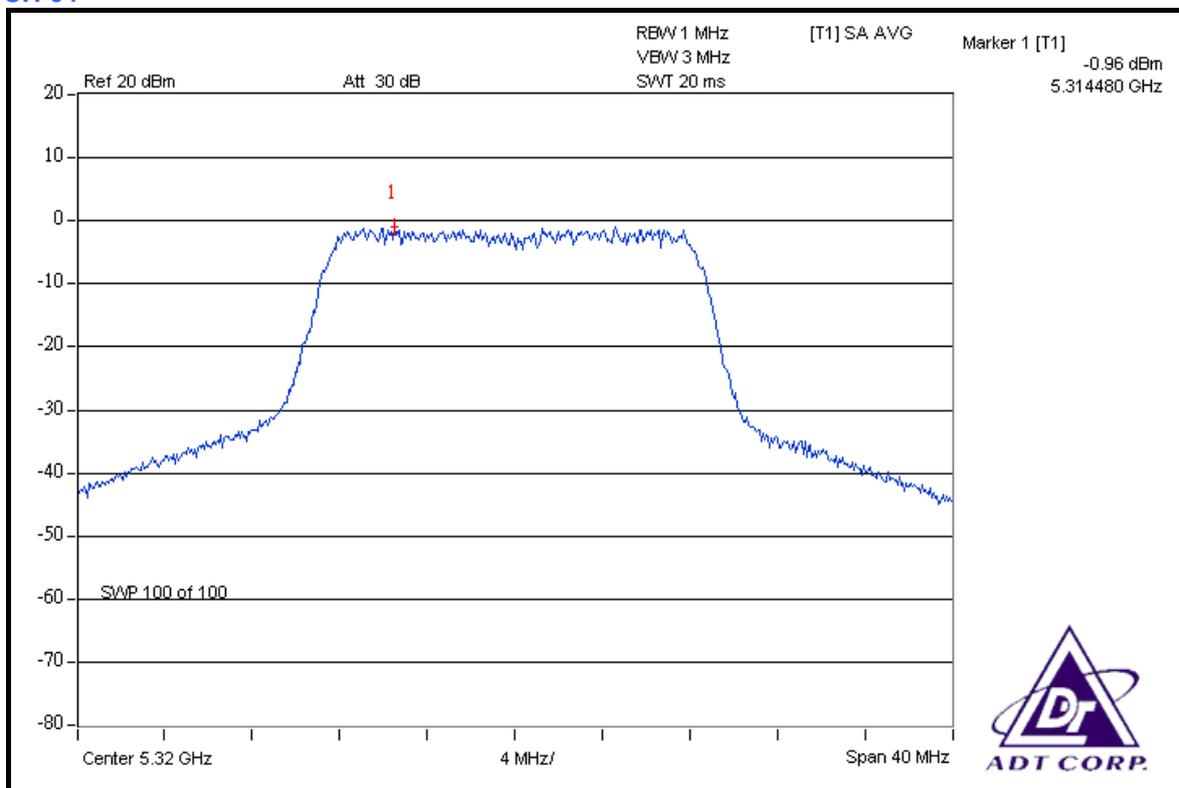




CH 60

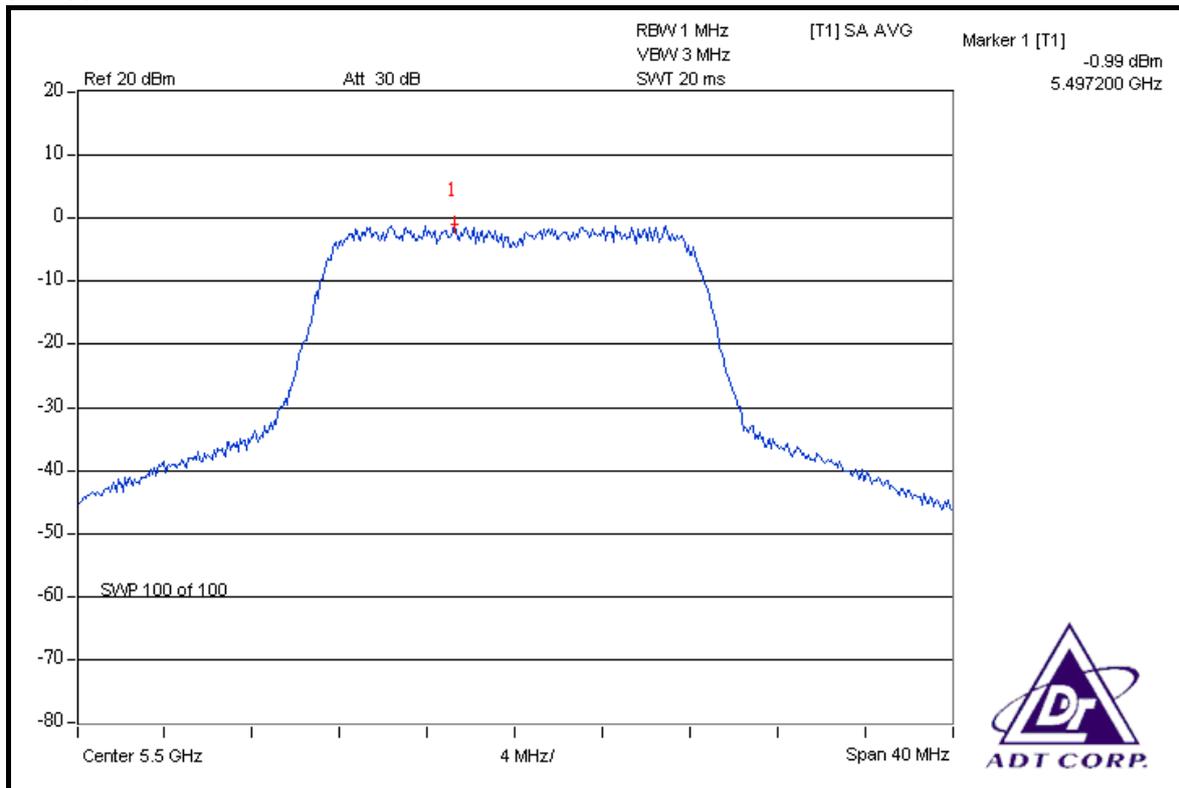


CH 64

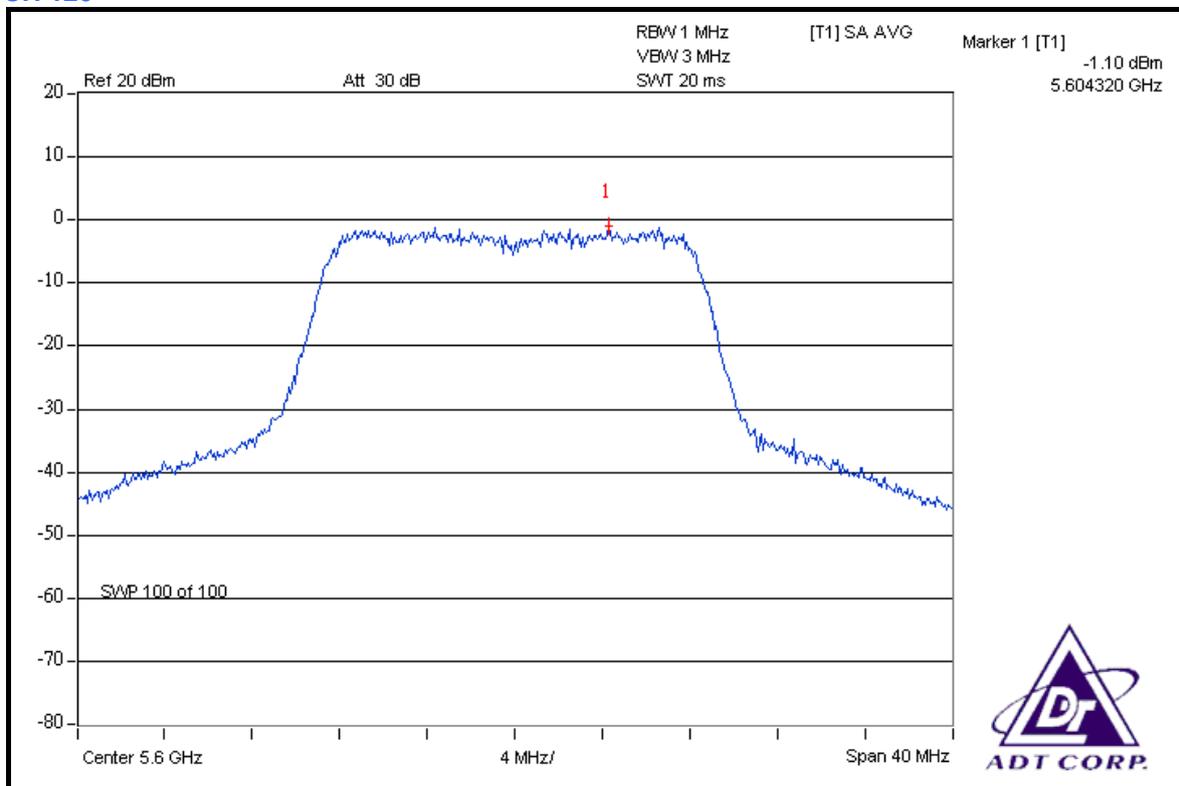




CH 100

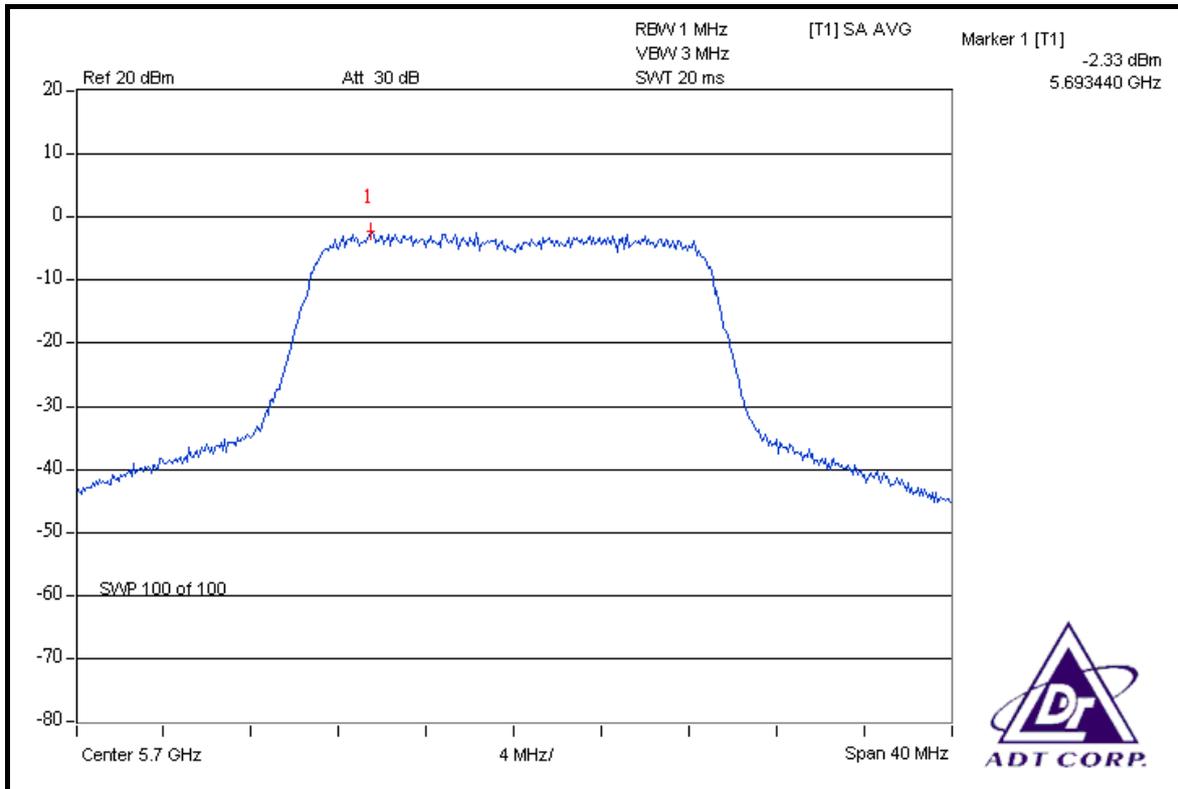


CH 120

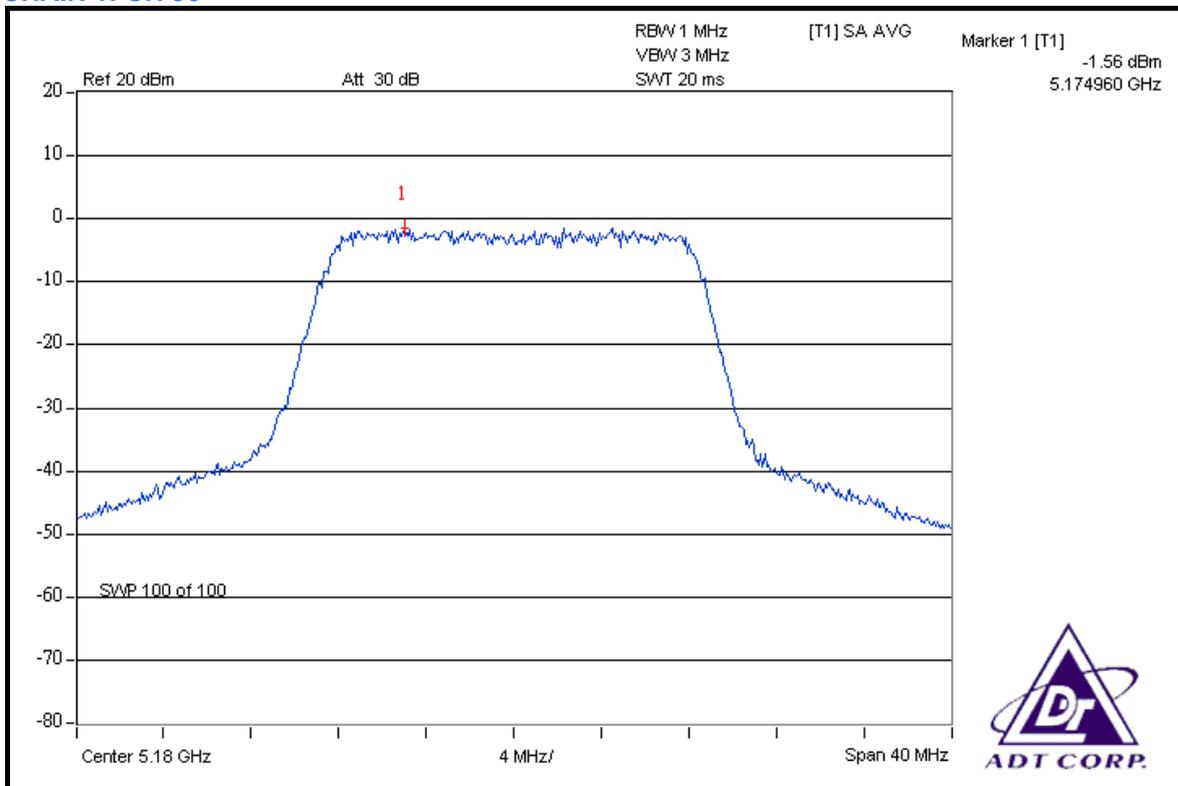




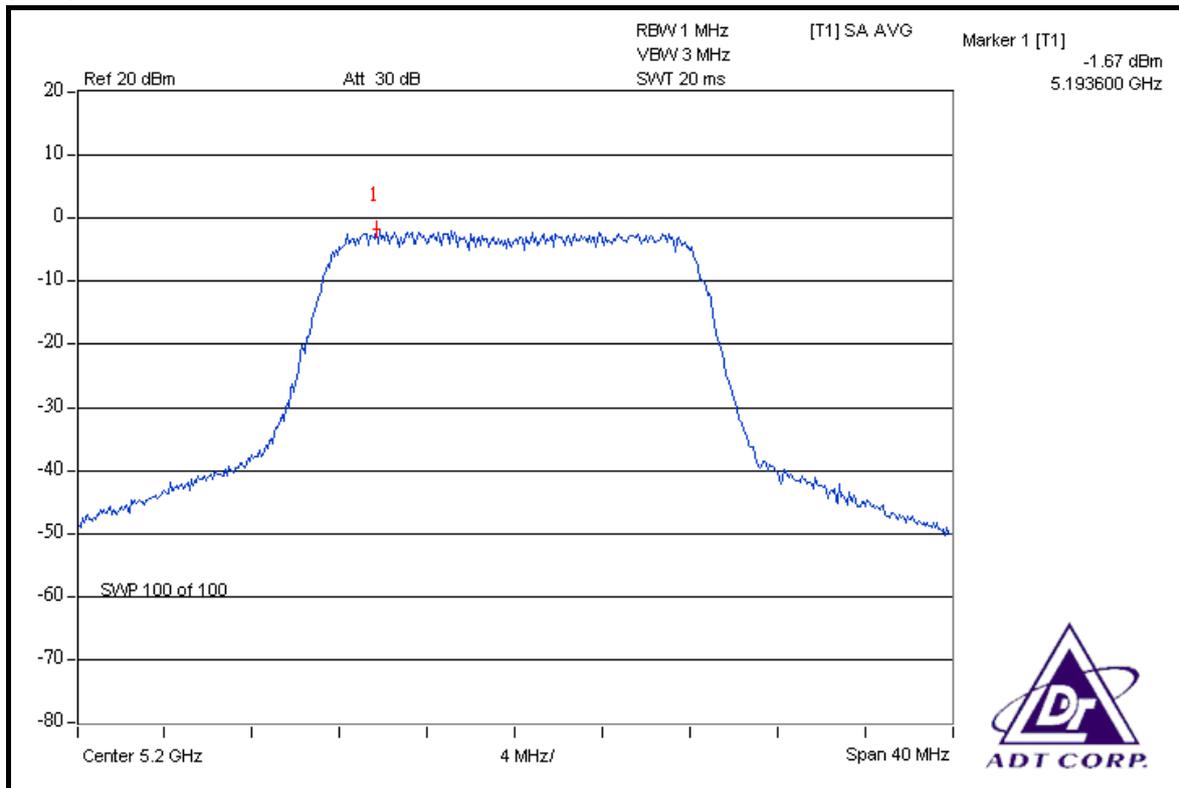
CH 140



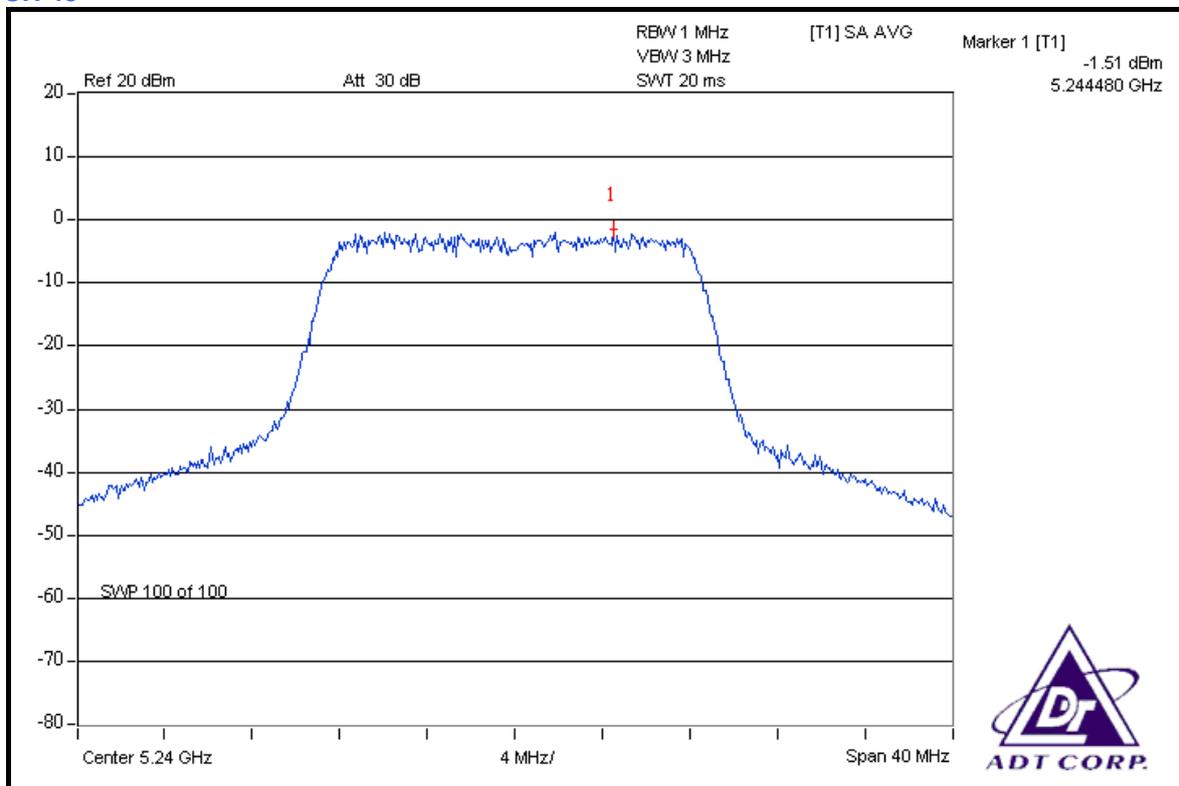
CHAIN 1: CH 36



CH 40

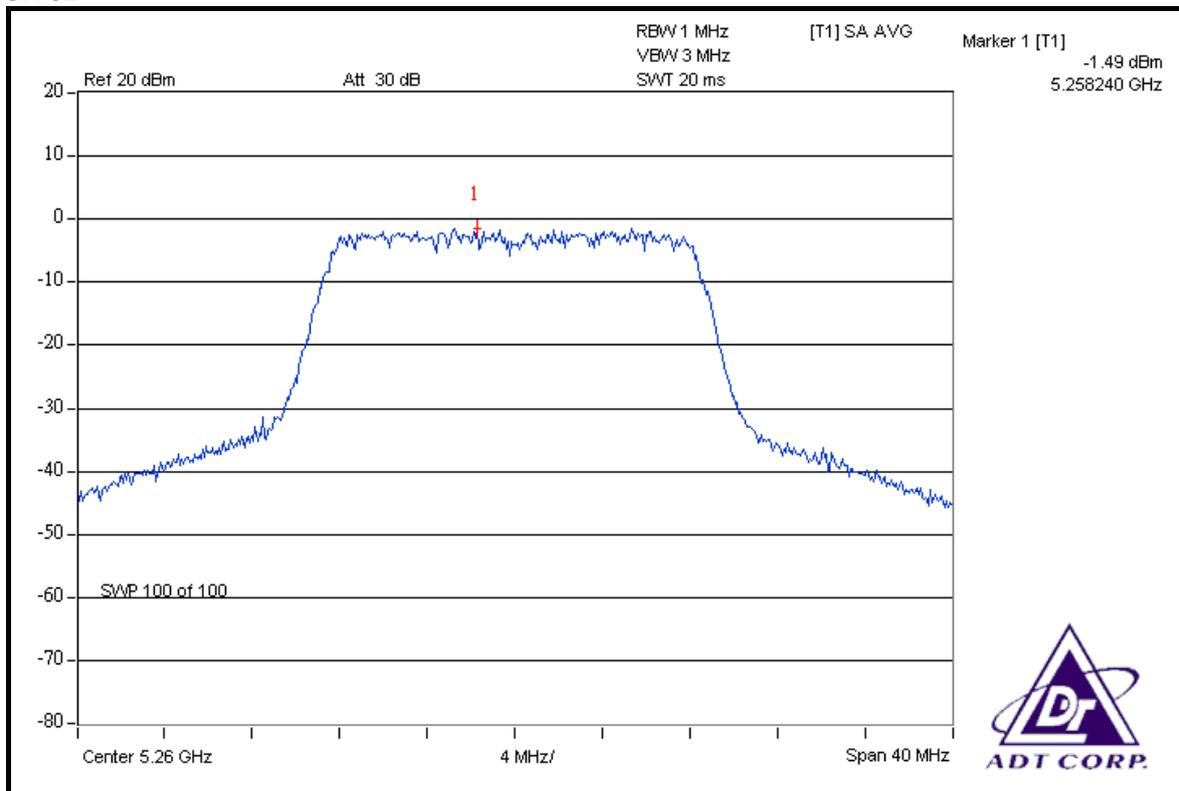


CH 48

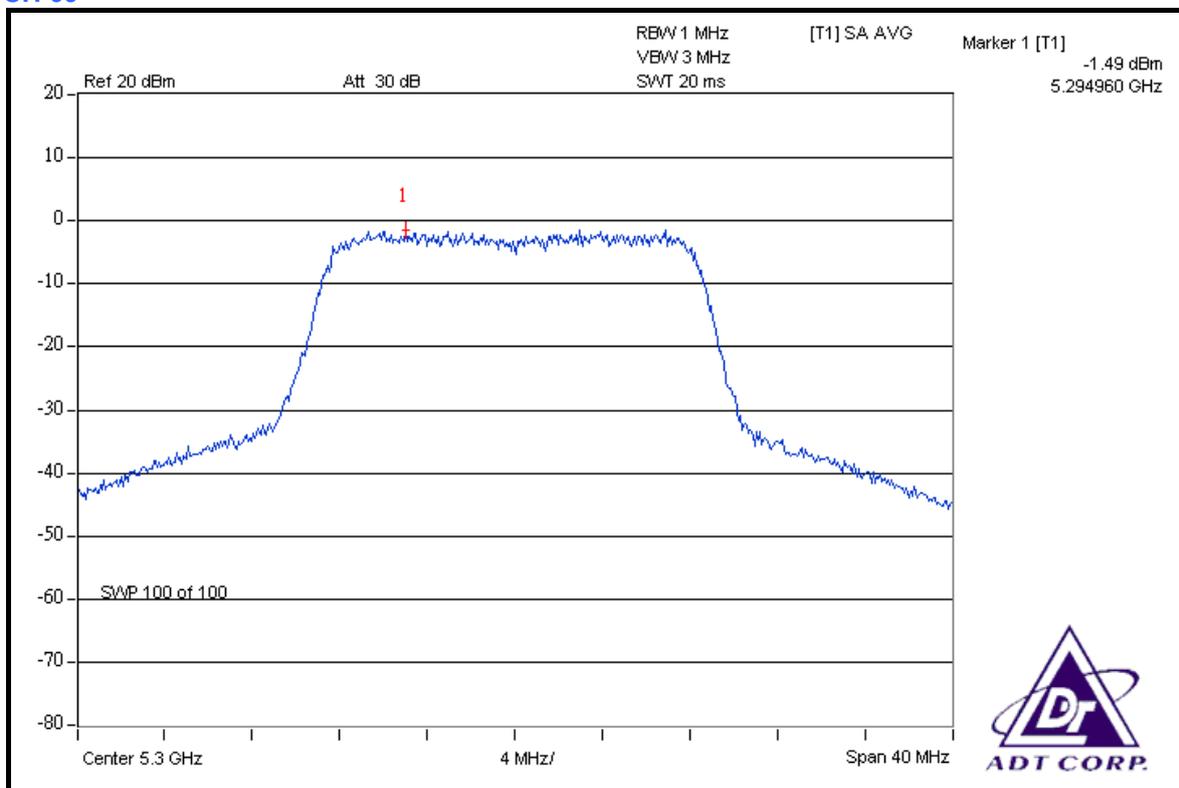




CH 52

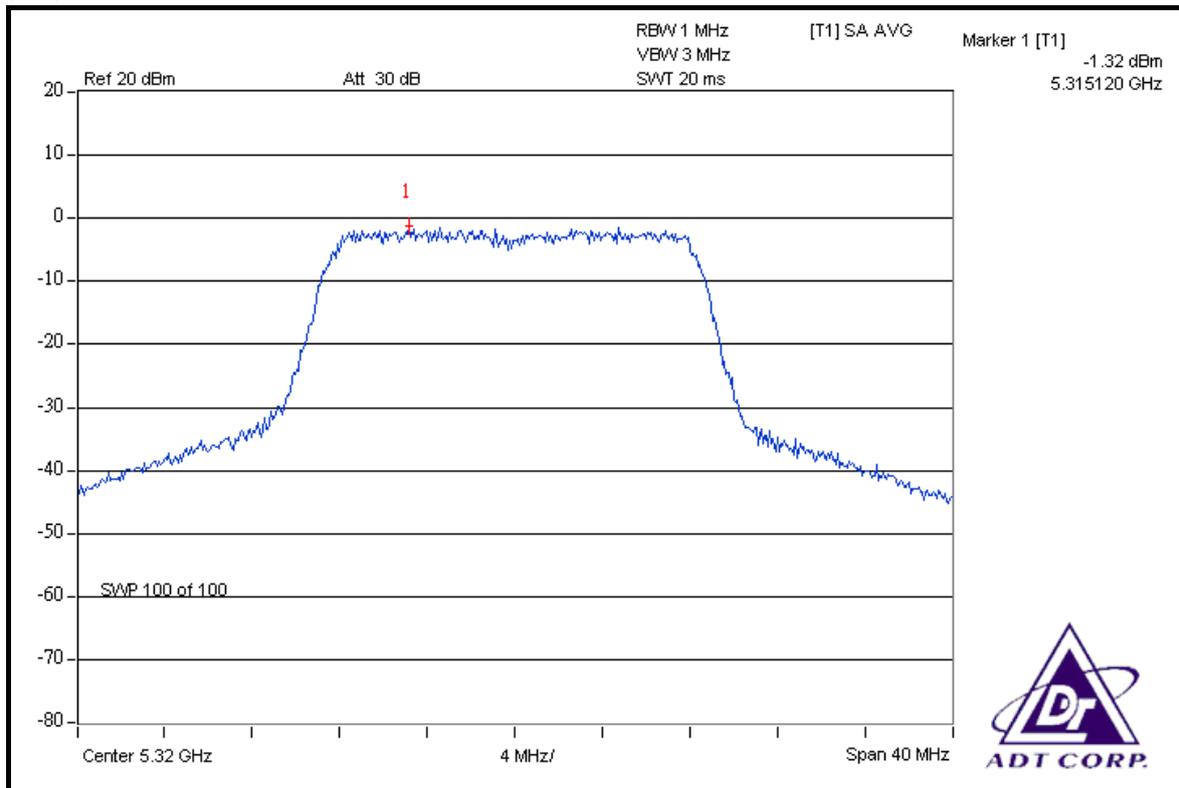


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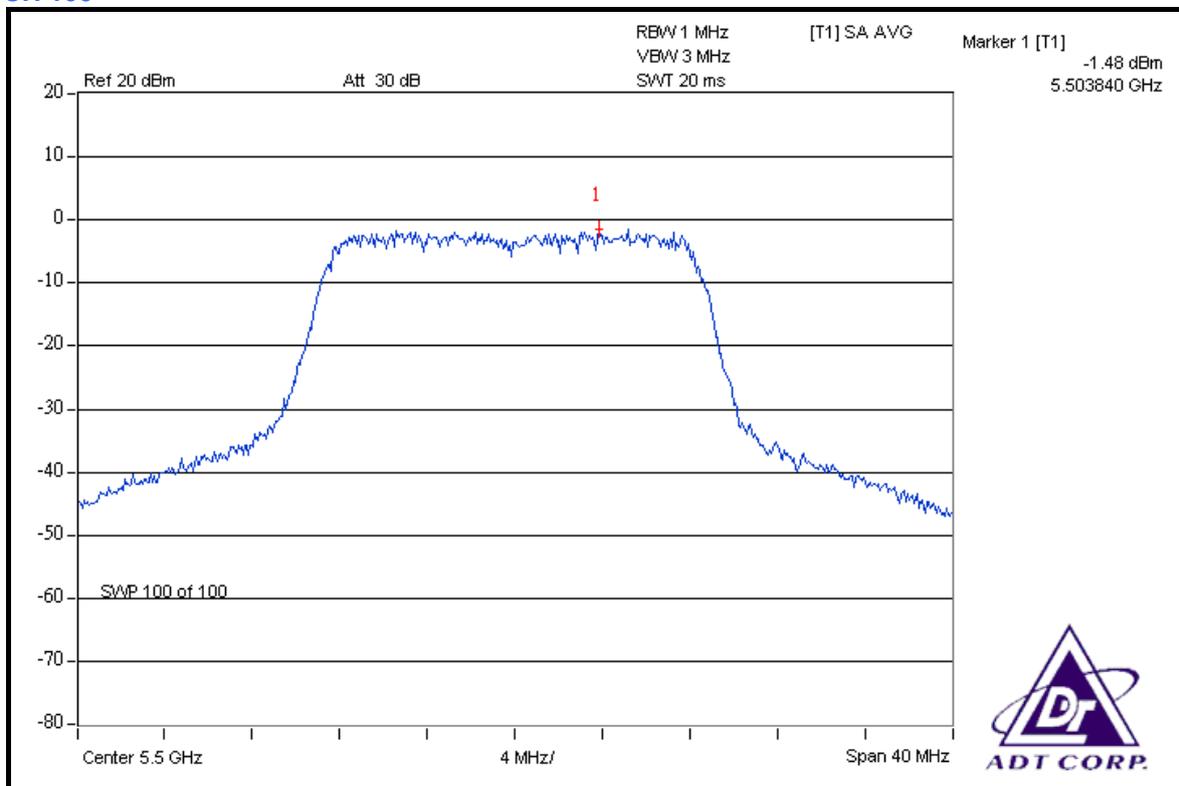




CH 64

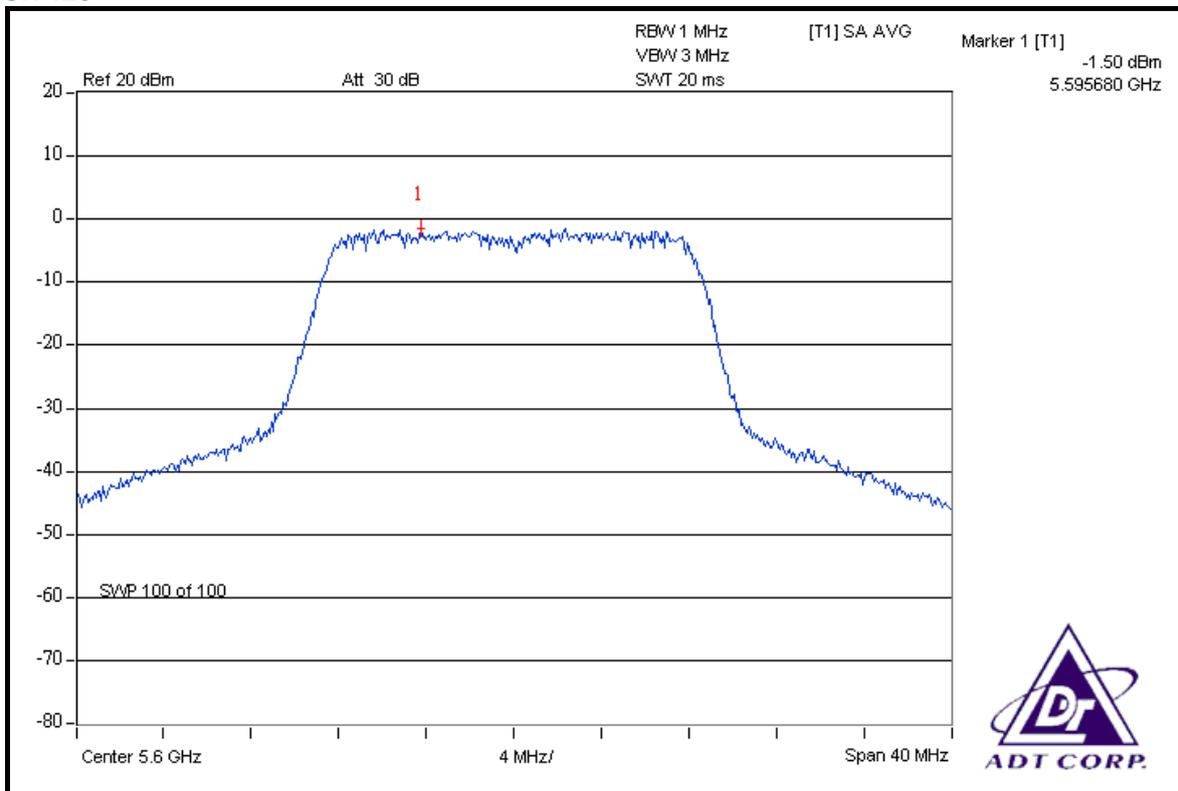


CH 100

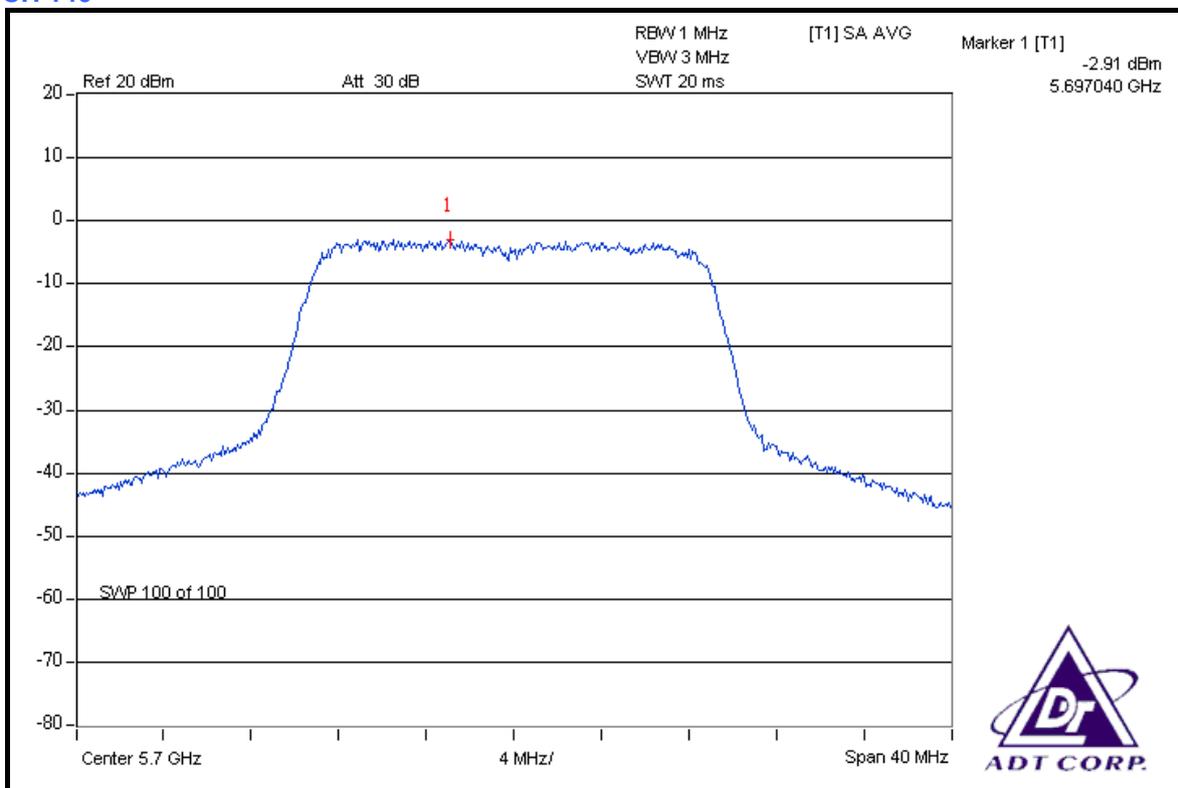




CH 120



CH 140





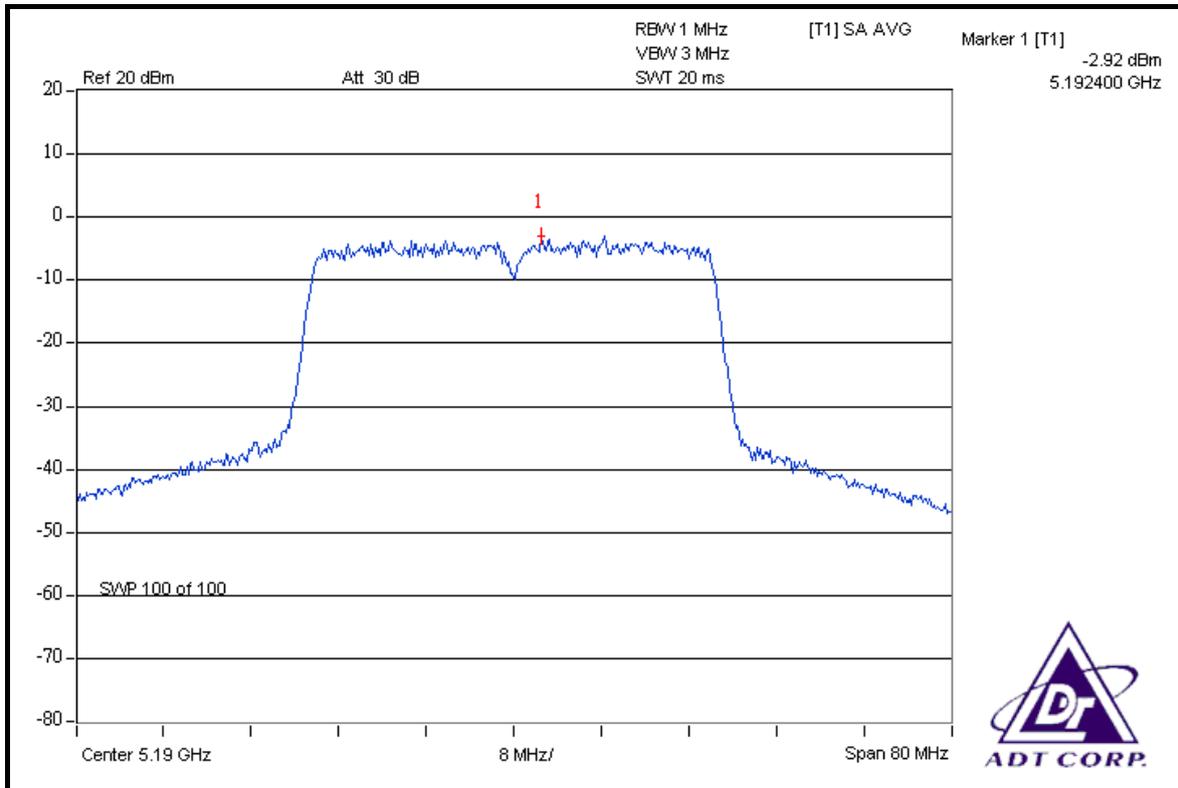
DRAFT 802.11n (40MHz) OFDM MODULATION

MODULATION TYPE	BPSK	TRANSFER RATE	15.0Mbps
INPUT POWER (SYSTEM)	120Vac, 60Hz	ENVIRONMENTAL CONDITIONS	24deg.C, 64%RH, 991hPa
TESTED BY	Brad Wu		

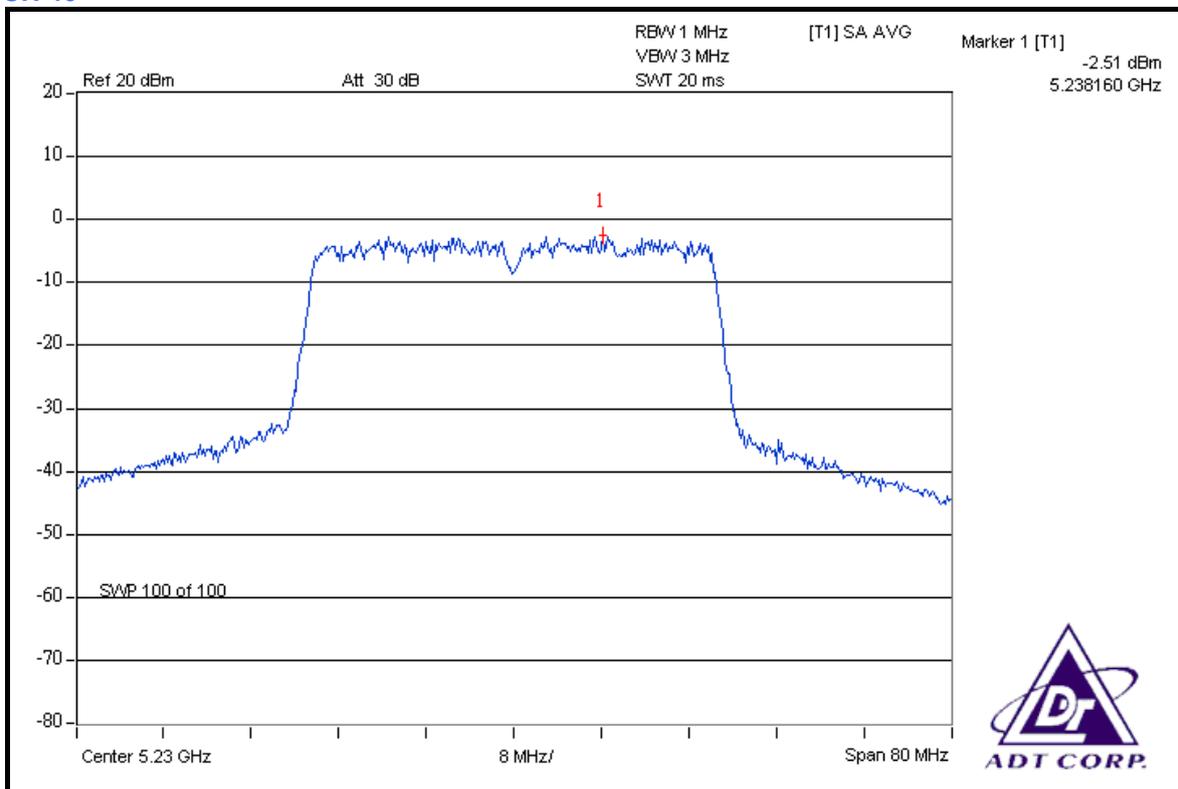
CHAN.	CHAN. FREQ. (MHz)	RF POWER LEVEL IN 3kHz BW (dBm)		TOTAL POWER DENSITY (mW)	TOTAL POWER DENSITY (dBm)	MAX. LIMIT (dBm)	PASS / FAIL
		CHAIN 0	CHAIN 1				
38	5190	-2.92	-3.49	0.958	-0.19	4	PASS
46	5230	-2.51	-4.45	0.920	-0.36	4	PASS
54	5270	-2.71	-3.62	0.970	-0.13	11	PASS
62	5310	-3.07	-4.08	0.884	-0.54	11	PASS
102	5510	-3.94	-4.79	0.736	-1.33	11	PASS
118	5590	-2.55	-2.87	1.072	0.30	11	PASS
134	5670	-3.49	-4.66	0.790	-1.03	11	PASS



CHAIN 0: CH 38

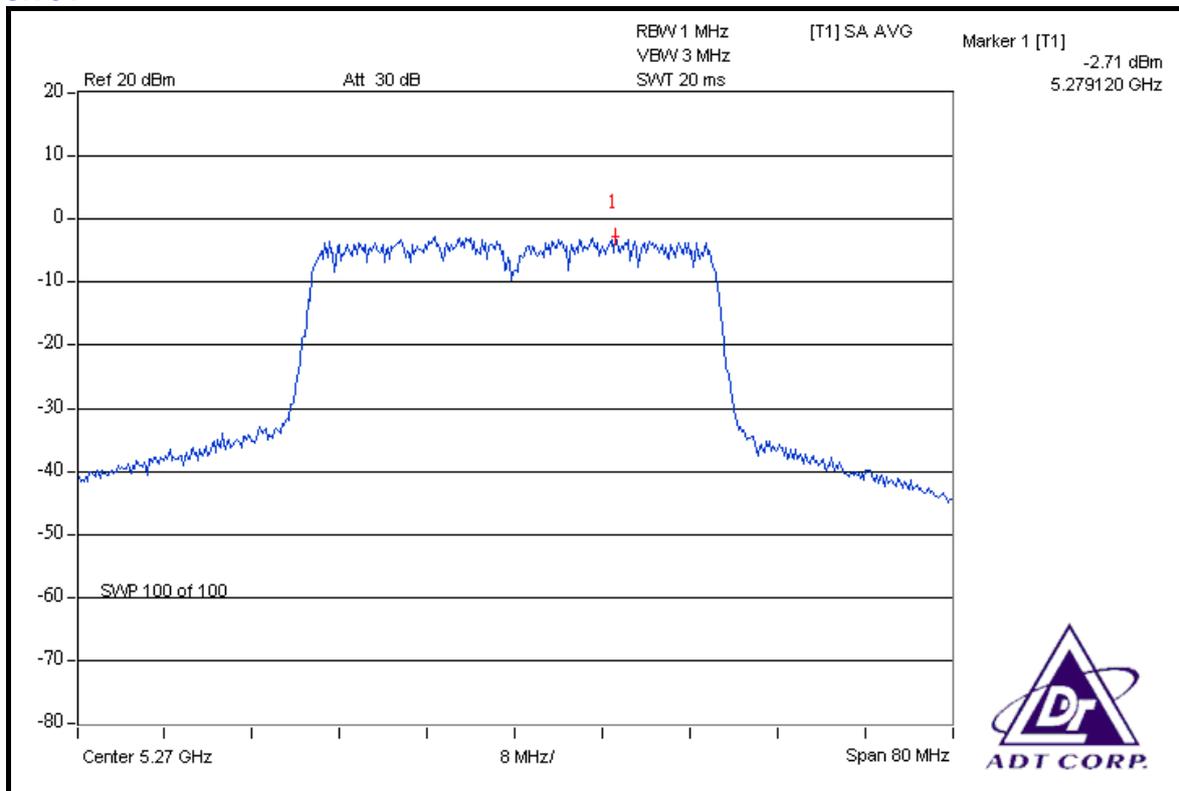


CH 46

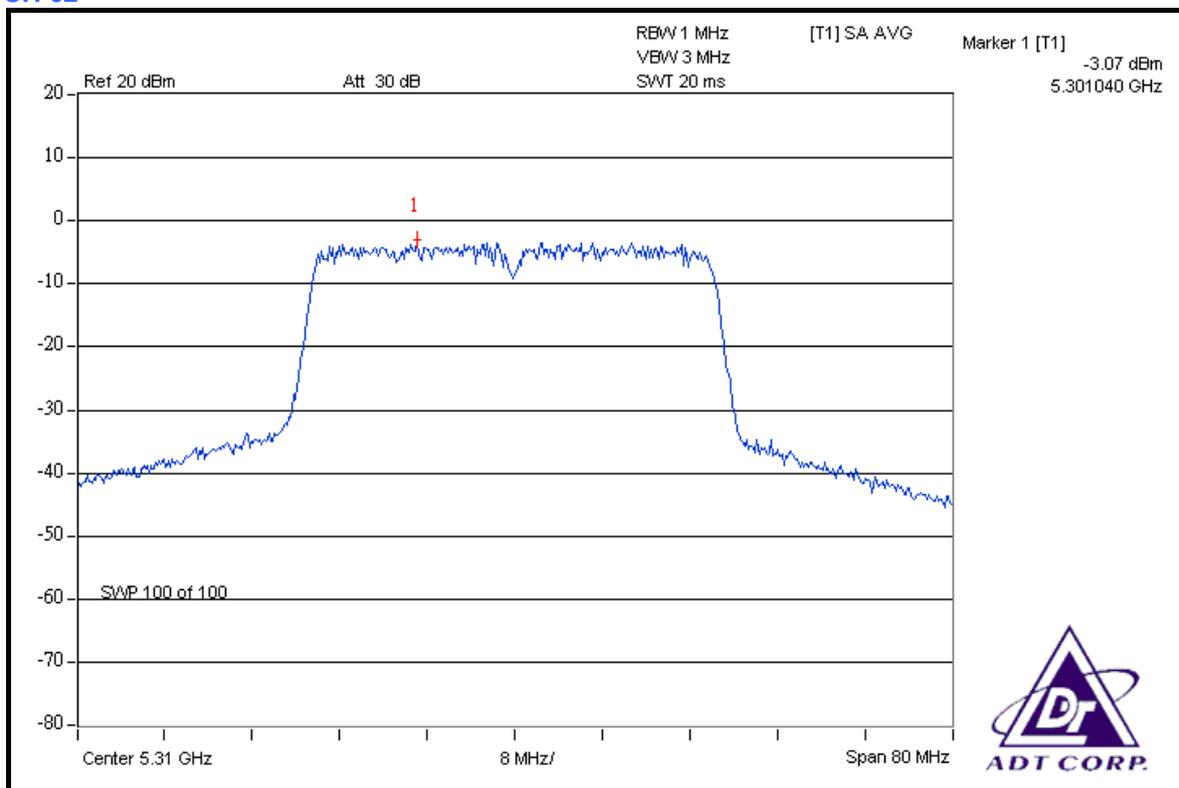




CH 54

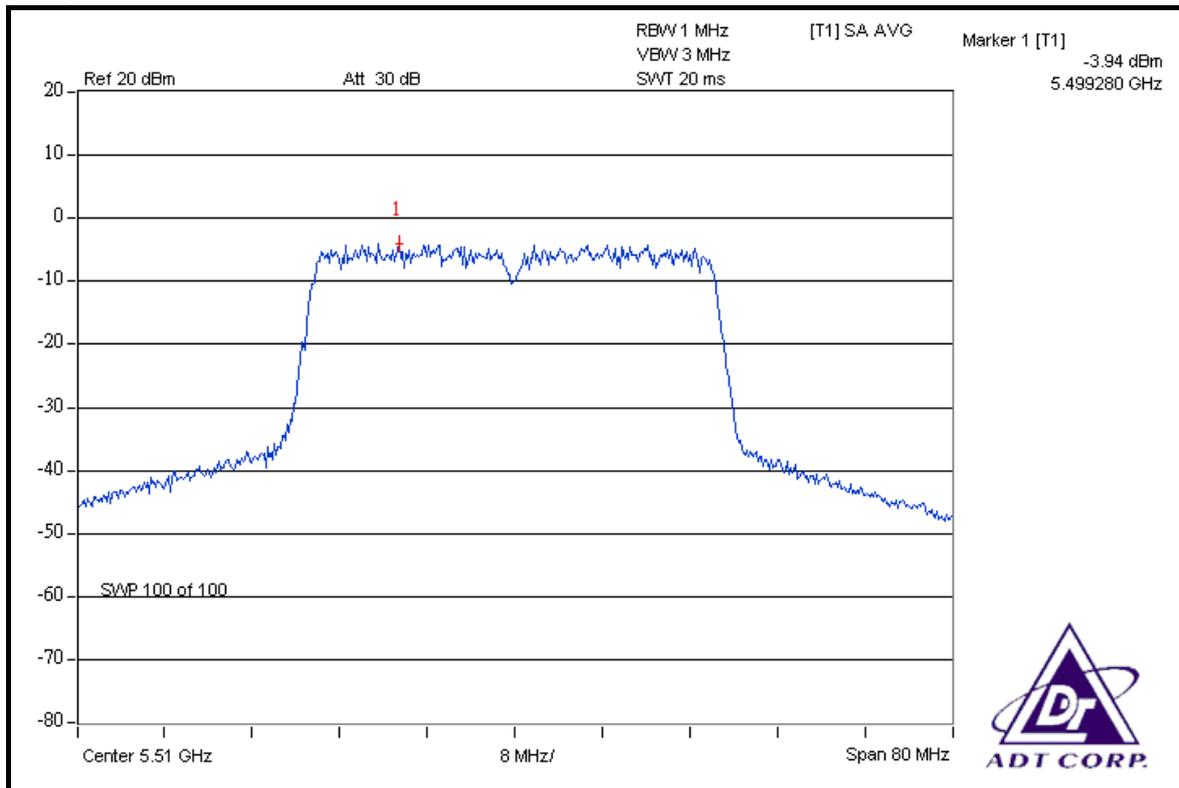


CH 62

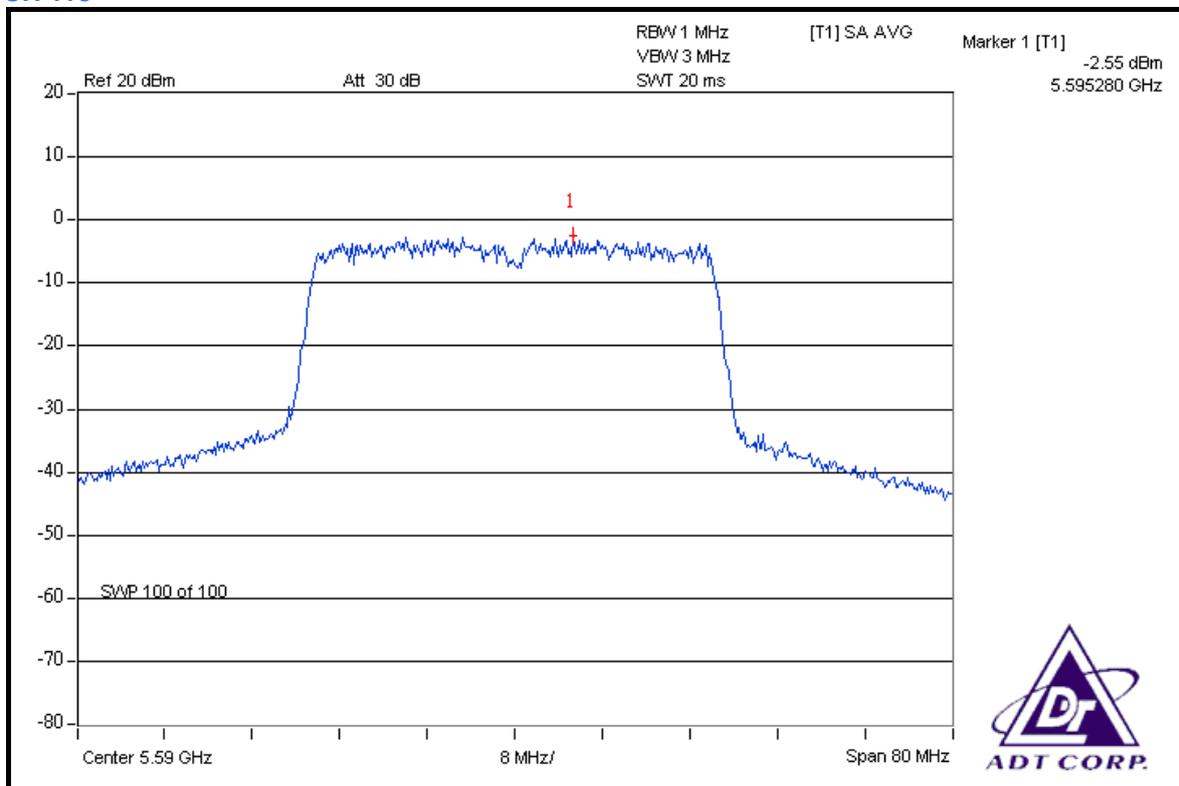




CH 102

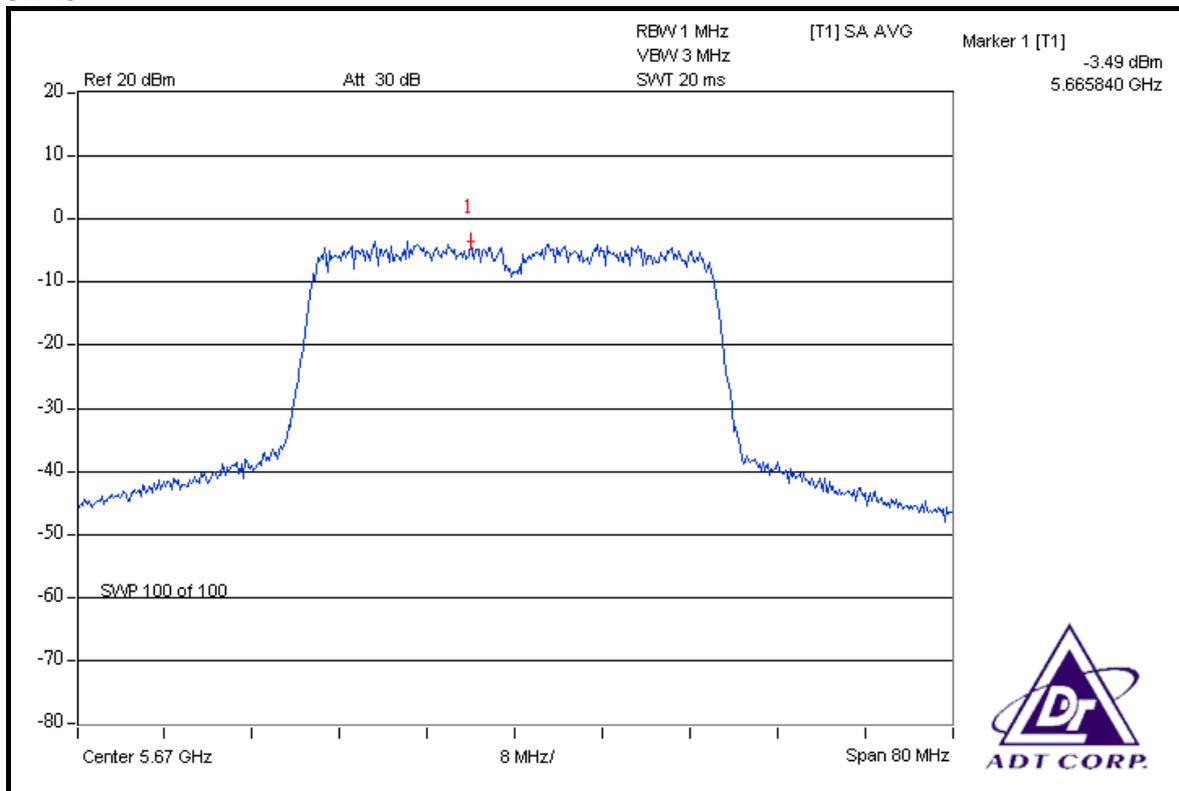


CH 118

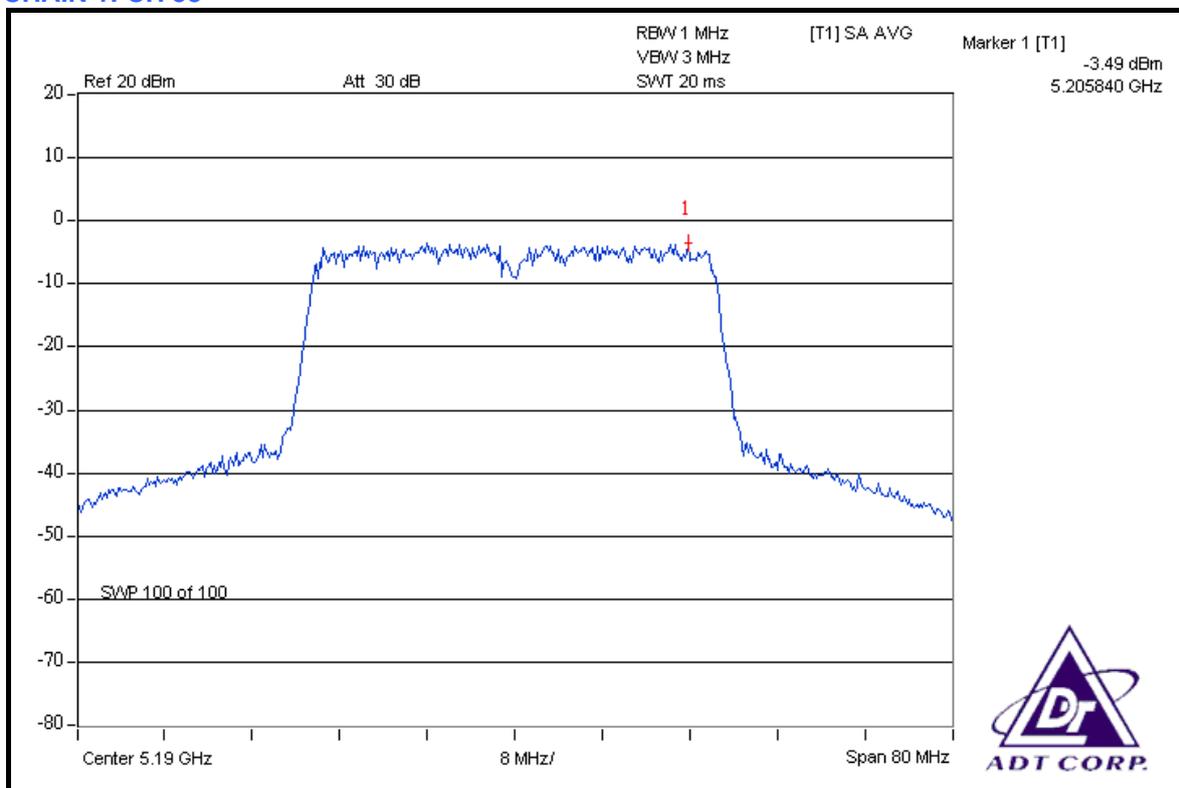




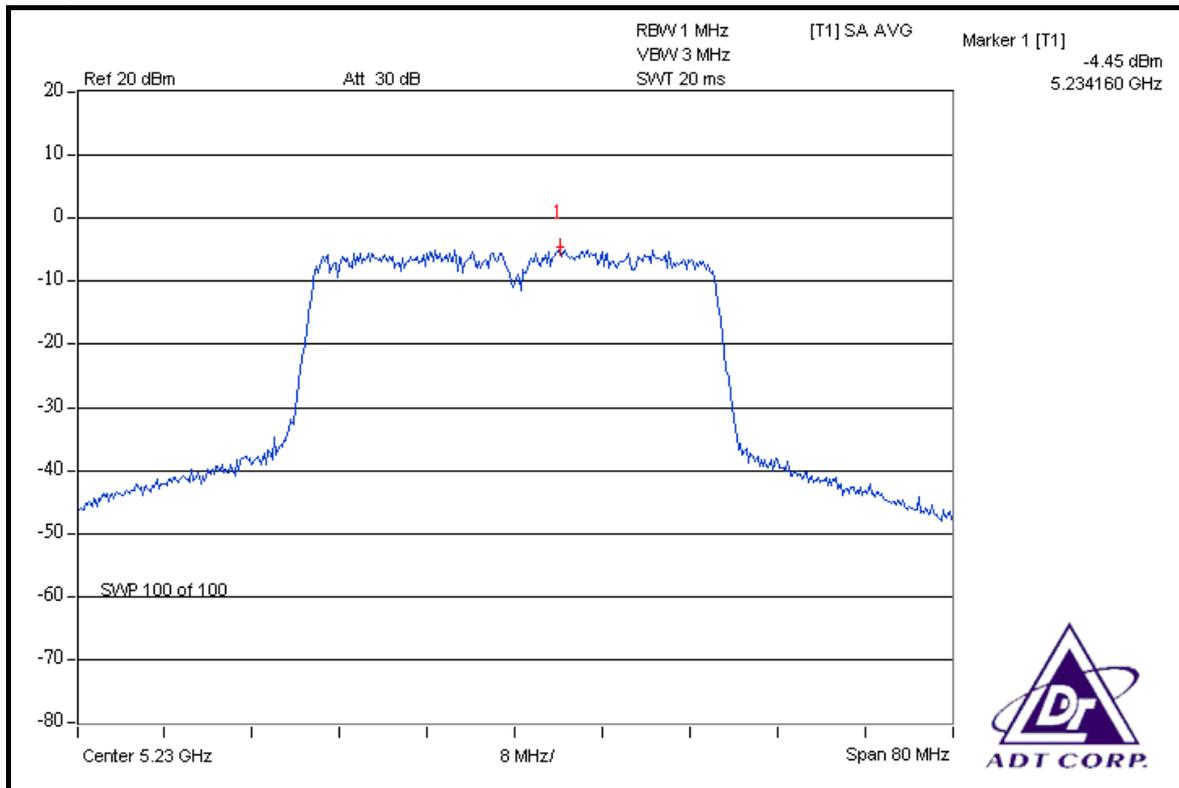
CH 134



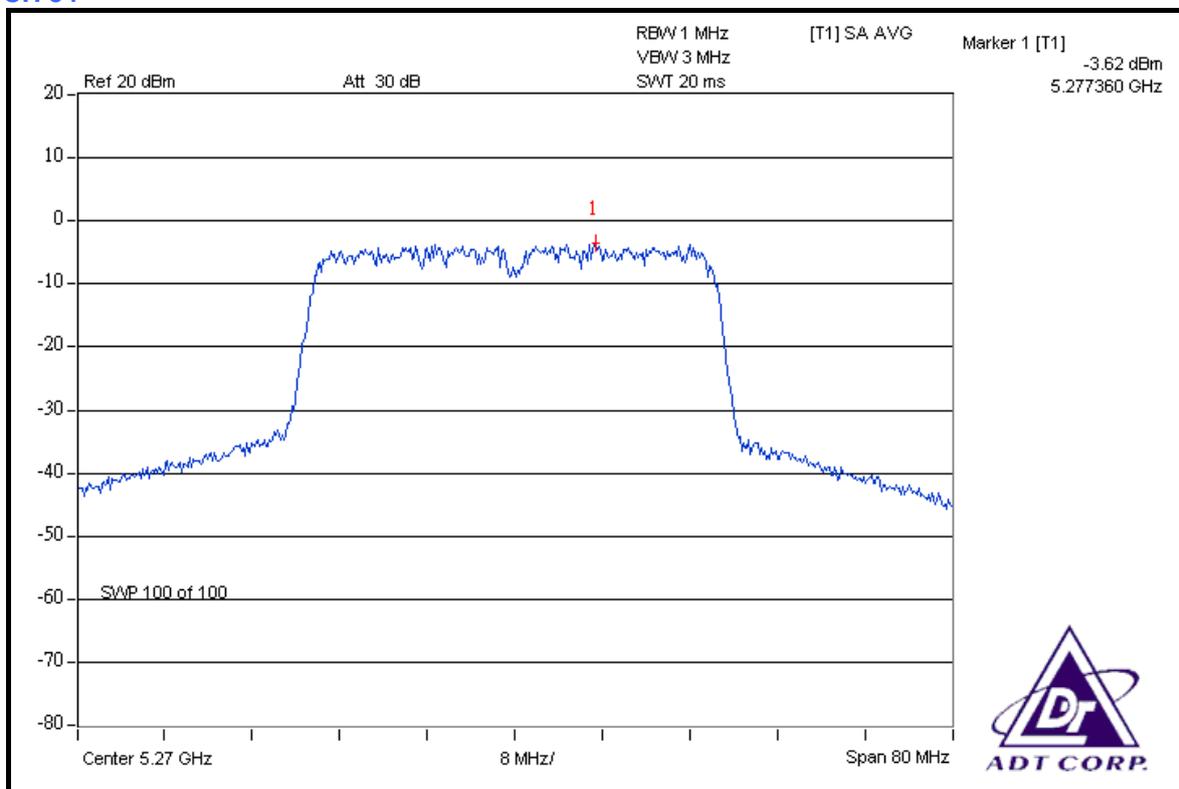
CHAIN 1: CH 38



CH 46

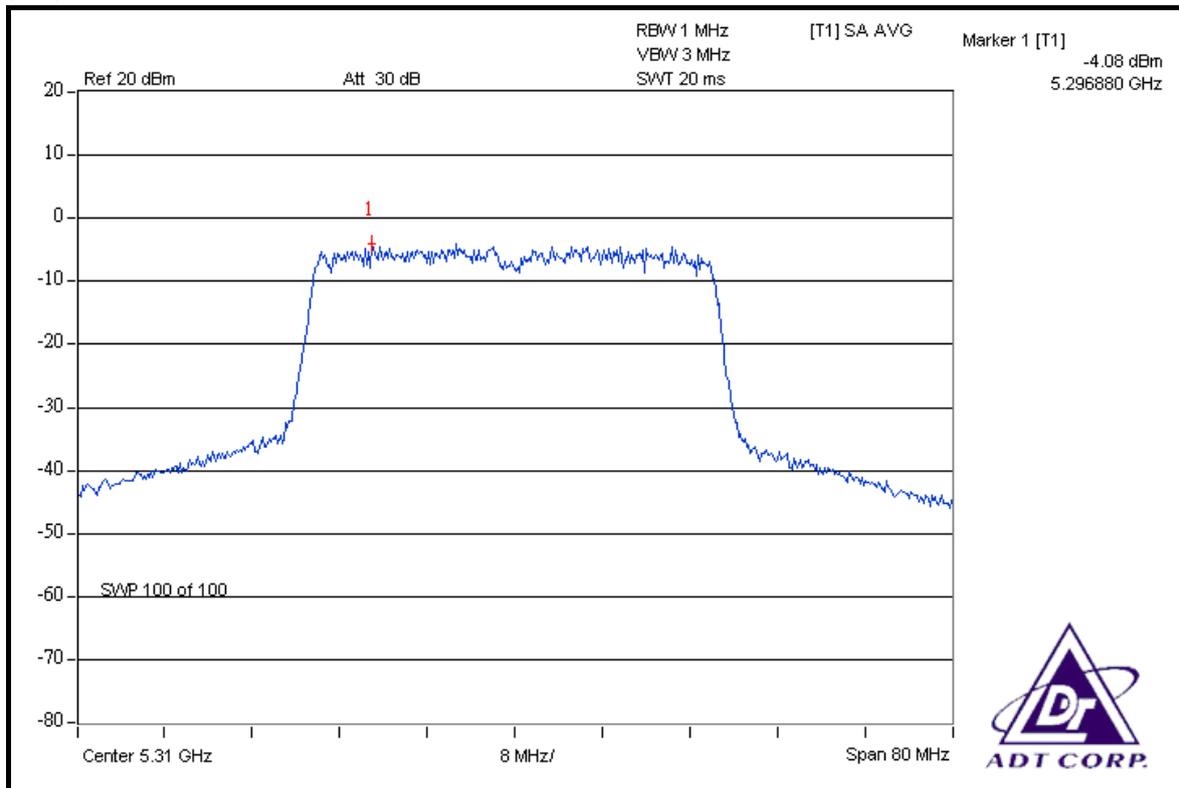


CH 54

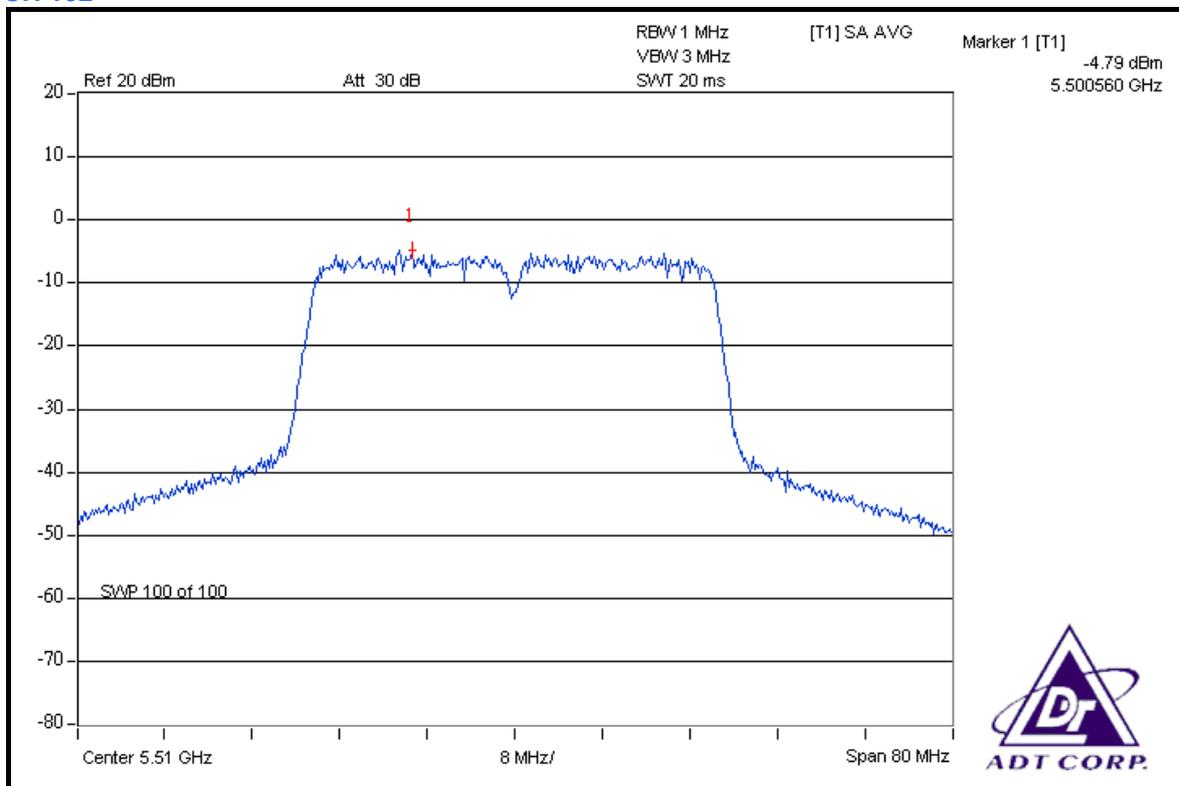




CH 62

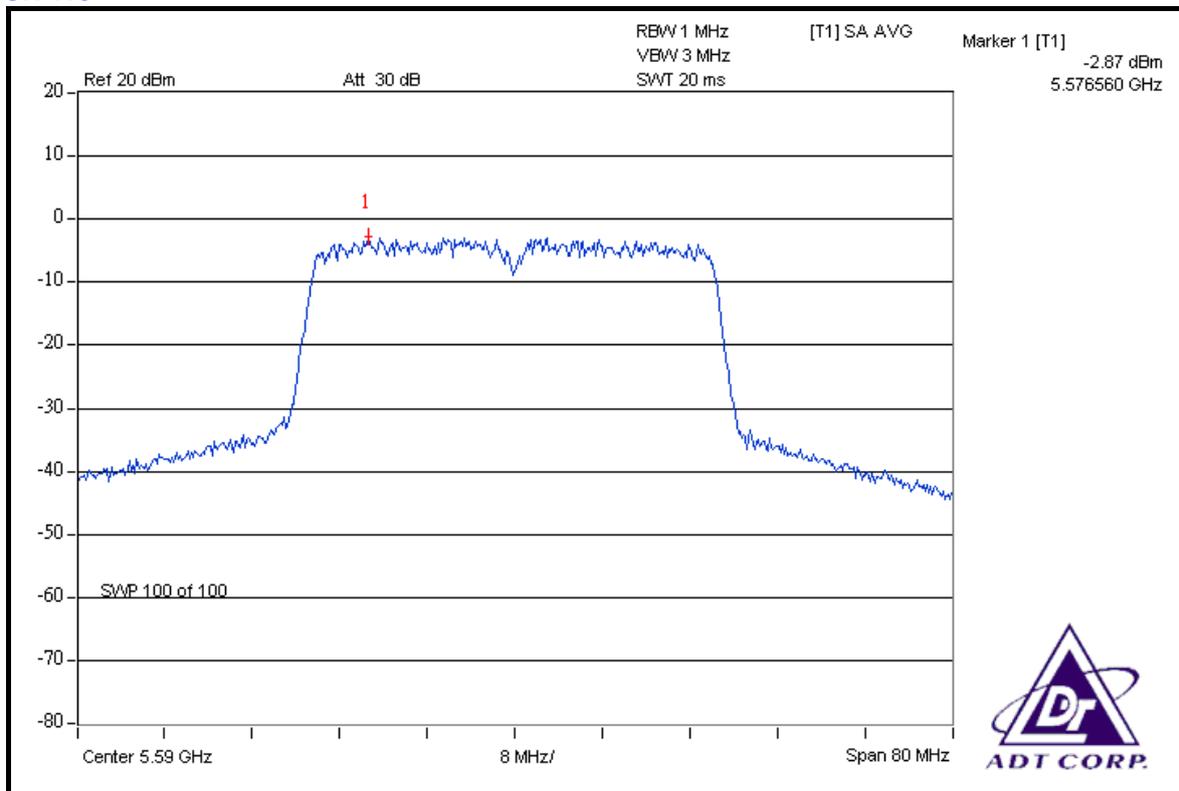


CH 102

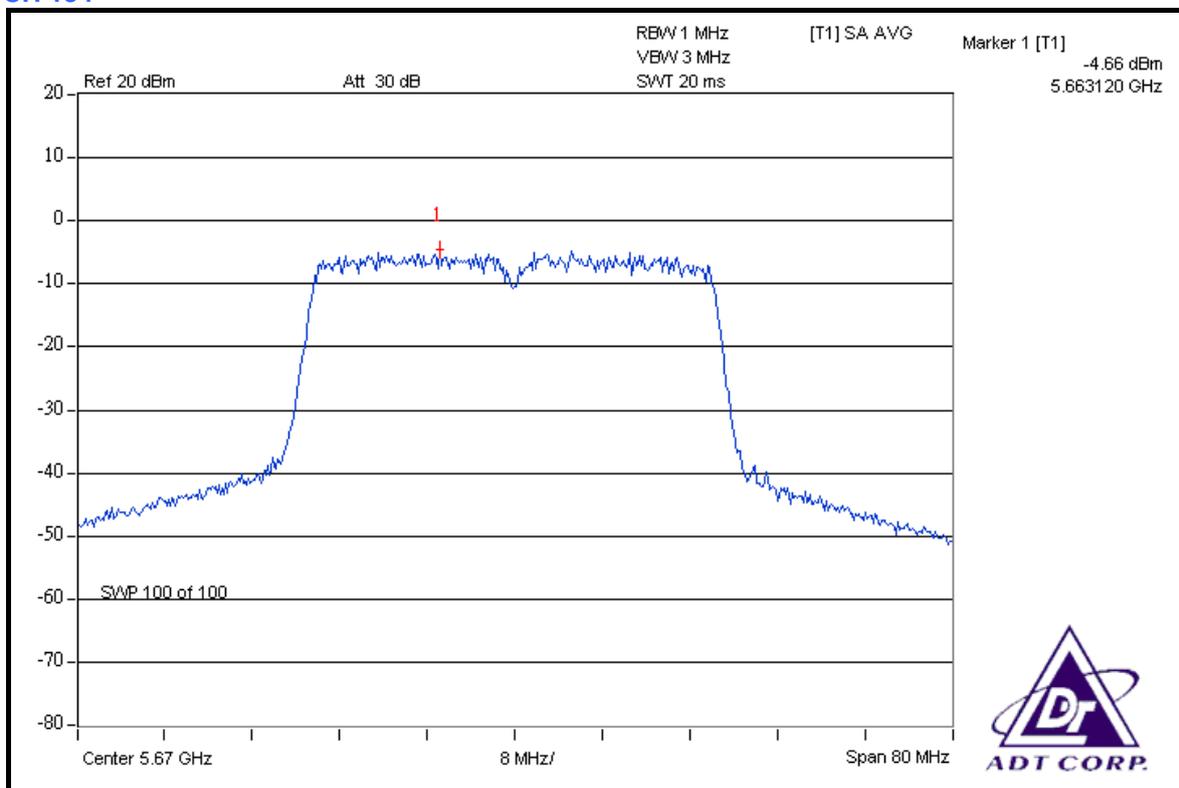




CH 118



CH 134





4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of -30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
ANRITSU SPECTRUM ANALYZER	MS2667C	M10281	Nov. 22, 2007	Nov. 21, 2008
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W981030	Jun. 26, 2008	Jun. 25, 2009

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

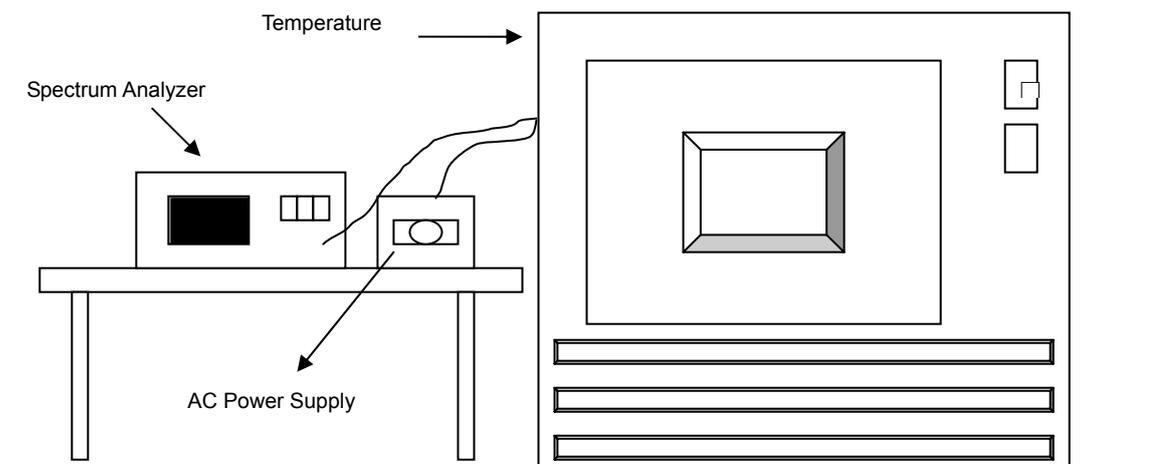
4.6.3 TEST PROCEDURE

- a. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- b. Turn the EUT on and couple its output to a spectrum analyzer.
- c. Turn the EUT off and set the chamber to the highest temperature specified.
- d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
- f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

Same as Item 4.1.6



4.6.7 TEST RESULTS

OPERATING FREQUENCY: 5320MHz						LIMIT: ± 0.01%			
TEMP. (°C)	POWER SUPPLY (Vac)	0 MINUTE		2 MINUTE		5 MINUTE		10 MINUTE	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	126.5	5319.939281	-0.0011413	5319.939362	-0.0011398	5319.939405	-0.0011390	5319.939825	-0.0011311
	110.0	5319.939326	-0.0011405	5319.939281	-0.0011413	5319.939486	-0.0011375	5319.939153	-0.0011437
	93.5	5319.939646	-0.0011345	5319.939782	-0.0011319	5319.939665	-0.0011341	5319.939763	-0.0011323
40	126.5	5319.939264	-0.0011417	5319.938966	-0.0011473	5319.939450	-0.0011382	5319.939455	-0.0011381
	110.0	5319.939371	-0.0011396	5319.939371	-0.0011396	5319.939240	-0.0011421	5319.939118	-0.0011444
	93.5	5319.939484	-0.0011375	5319.939690	-0.0011336	5319.939509	-0.0011370	5319.939302	-0.0011409
30	126.5	5319.939491	-0.0011374	5319.939363	-0.0011398	5319.939697	-0.0011335	5319.939479	-0.0011376
	110.0	5319.939394	-0.0011392	5319.939441	-0.0011383	5319.939479	-0.0011376	5319.939385	-0.0011394
	93.5	5319.939632	-0.0011347	5319.939517	-0.0011369	5319.939944	-0.0011289	5319.939489	-0.0011374
20	126.5	5319.939408	-0.0011389	5319.939205	-0.0011428	5319.939345	-0.0011401	5319.939422	-0.0011387
	110.0	5319.939732	-0.0011329	5319.939481	-0.0011376	5319.939856	-0.0011305	5319.939619	-0.0011350
	93.5	5319.939610	-0.0011352	5319.939360	-0.0011398	5319.939730	-0.0011329	5319.939416	-0.0011388
10	126.5	5319.939165	-0.0011435	5319.939487	-0.0011375	5319.939223	-0.0011424	5319.939330	-0.0011404
	110.0	5319.939298	-0.0011410	5319.939460	-0.0011380	5319.939306	-0.0011409	5319.939052	-0.0011456
	93.5	5319.939732	-0.0011329	5319.939694	-0.0011336	5319.939844	-0.0011308	5319.939933	-0.0011291
0	126.5	5319.939407	-0.0011390	5319.939452	-0.0011381	5319.939384	-0.0011394	5319.939554	-0.0011362
	110.0	5319.939193	-0.0011430	5319.938918	-0.0011482	5319.939113	-0.0011445	5319.939437	-0.0011384
	93.5	5319.939678	-0.0011339	5319.939612	-0.0011351	5319.939692	-0.0011336	5319.939519	-0.0011369
-10	126.5	5319.939573	-0.0011358	5319.939272	-0.0011415	5319.939653	-0.0011343	5319.939550	-0.0011363
	110.0	5319.939697	-0.0011335	5319.939420	-0.0011387	5319.939566	-0.0011360	5319.939516	-0.0011369
	93.5	5319.939053	-0.0011456	5319.939329	-0.0011404	5319.939084	-0.0011450	5319.939164	-0.0011435
-20	126.5	5319.939530	-0.0011367	5319.939546	-0.0011364	5319.939392	-0.0011392	5319.939209	-0.0011427
	110.0	5319.939457	-0.0011380	5319.939355	-0.0011399	5319.939430	-0.0011385	5319.939414	-0.0011388
	93.5	5319.939507	-0.0011371	5319.939578	-0.0011358	5319.939280	-0.0011414	5319.939852	-0.0011306
-30	126.5	5319.939381	-0.0011395	5319.939215	-0.0011426	5319.939601	-0.0011353	5319.939212	-0.0011426
	110.0	5319.939269	-0.0011416	5319.939413	-0.0011389	5319.939558	-0.0011361	5319.939266	-0.0011416
	93.5	5319.939113	-0.0011445	5319.939153	-0.0011437	5319.939180	-0.0011432	5319.939195	-0.0011430



4.7 BAND EDGES MEASUREMENT

4.7.1 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	CALIBRATED UNTIL
FOR CONDUCTED MEASUREMENT:				
R&S SPECTRUM ANALYZER	FSP40	100041	Apr. 22, 2008	Apr. 21, 2009
FOR RADIATED MEASUREMENT:				
Test Receiver ROHDE & SCHWARZ	ESI7	100033	Jun. 30, 2008	Jun. 29, 2009
Spectrum Analyzer Agilent	FSP	100041	Apr. 22, 2008	Apr. 21, 2009
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	May, 02, 2008	May, 01, 2009
HORN Antenna SCHWARZBECK	9120D	9120D-209	Jun. 24, 2008	Jun. 23, 2009
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 25, 2007	Dec. 24, 2008
Preamplifier Agilent	8447D	2944A10633	Oct. 29, 2007	Oct. 28, 2008
Preamplifier Agilent	8449B	3008A01964	Oct. 24, 2007	Oct. 23, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	283402/4	Dec. 07, 2007	Dec. 06, 2008
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	251644/4	Dec. 07, 2007	Dec. 06, 2008
Software ADT.	ADT_Radiated_V7.6	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.7.2 TEST PROCEDURE

FOR CONDUCTED MEASUREMENT:

The transmitter output was connected to the spectrum analyzer via a low loss cable. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = 100kHz, VBW = 300kHz) are attached on the following pages.

FOR RADIATED MEASUREMENT:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. Set both RBW and VBW of spectrum analyzer to 100kHz and 300kHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

NOTE: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.

4.7.3 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

4.7.4 TEST RESULTS

For signals in the restricted bands above and below the 5.15 to 5.35GHz and 5.47 to 5.725GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak field strength of the intentional signal made on the OATS to calculate the field strength of the unintentional signals.

The spectrum plots (Peak RBW = 1MHz, VBW = 3MHz) are attached on the following pages.

FOR 5150-5350MHz BAND: 802.11a OFDM MODULATION

TEST MODE A

Channel 36 (5180MHz)

The band edge emission plot on the next second page shows 39.34dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 111.97dBuV/m (Peak), so the maximum field strength in restrict band is $111.97 - 39.34 = 72.63$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next second page shows 50.71dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 101.38dBuV/m (Average), so the maximum field strength in restrict band is $101.38 - 50.71 = 50.67$ dBuV/m which is under 54dBuV/m limit.

Channel 64 (5320MHz)

The band edge emission plot on the next third page shows 39.67dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 112.56dBuV/m (Peak), so the maximum field strength in restrict band is $112.56 - 39.67 = 72.89$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next fourth page shows 49.31dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 101.77dBuV/m (Average), so the maximum field strength in restrict band is $101.77 - 49.31 = 52.46$ dBuV/m which is under 54dBuV/m limit.

TEST MODE B

Channel 36 (5180MHz)

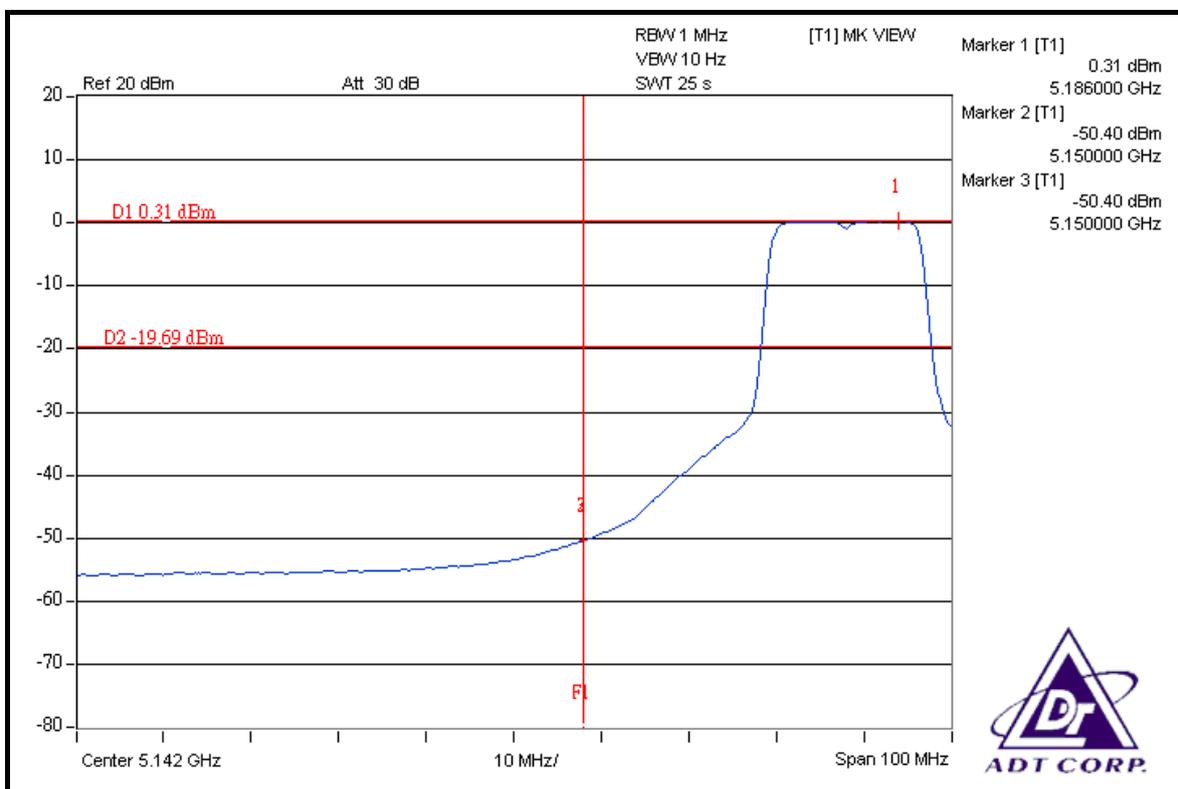
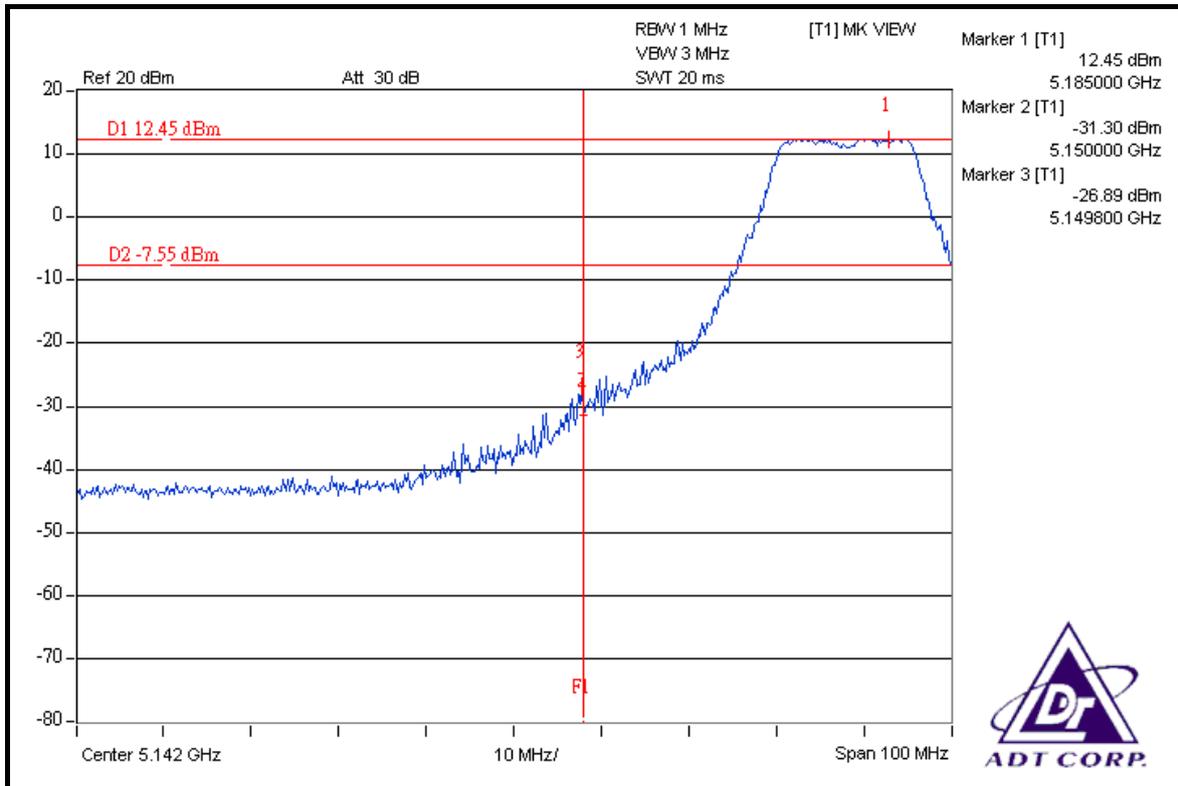
The band edge emission plot on the next page shows 39.34dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 113.11dBuV/m (Peak), so the maximum field strength in restrict band is $113.11 - 39.34 = 73.77$ dBuV/m which is under 74dBuV/m limit.

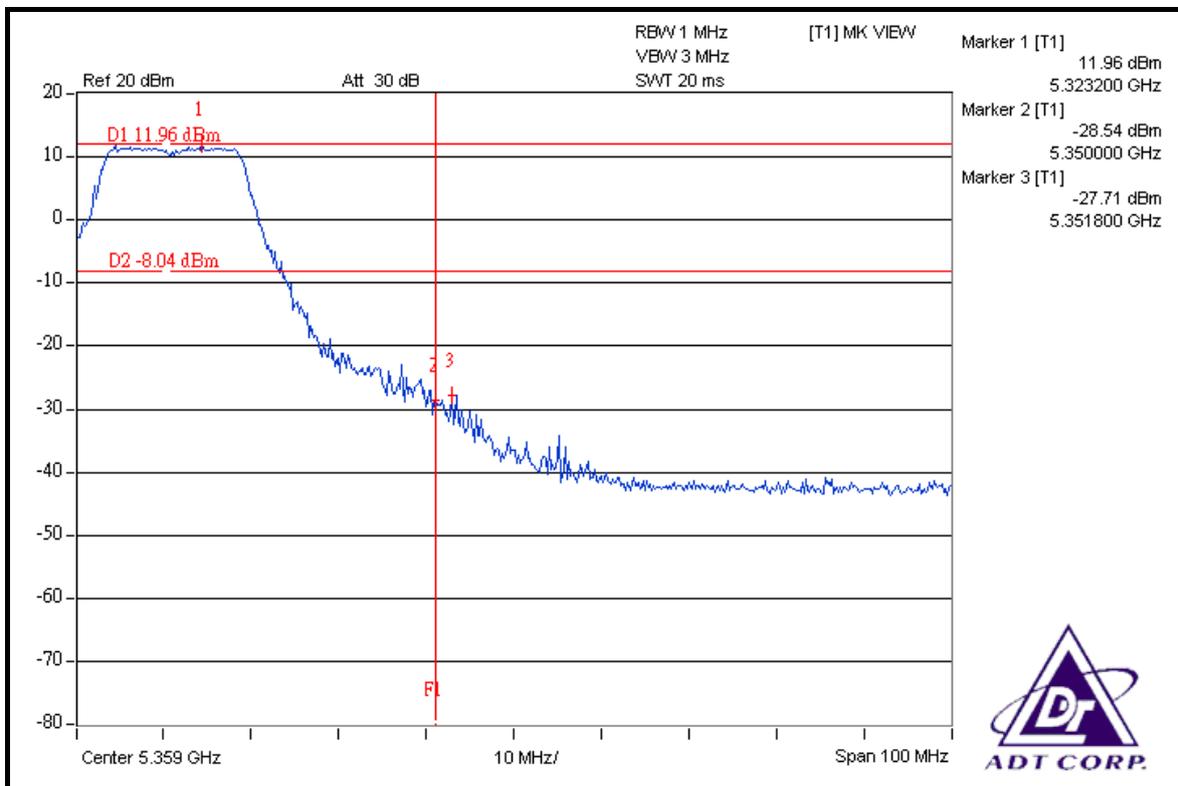
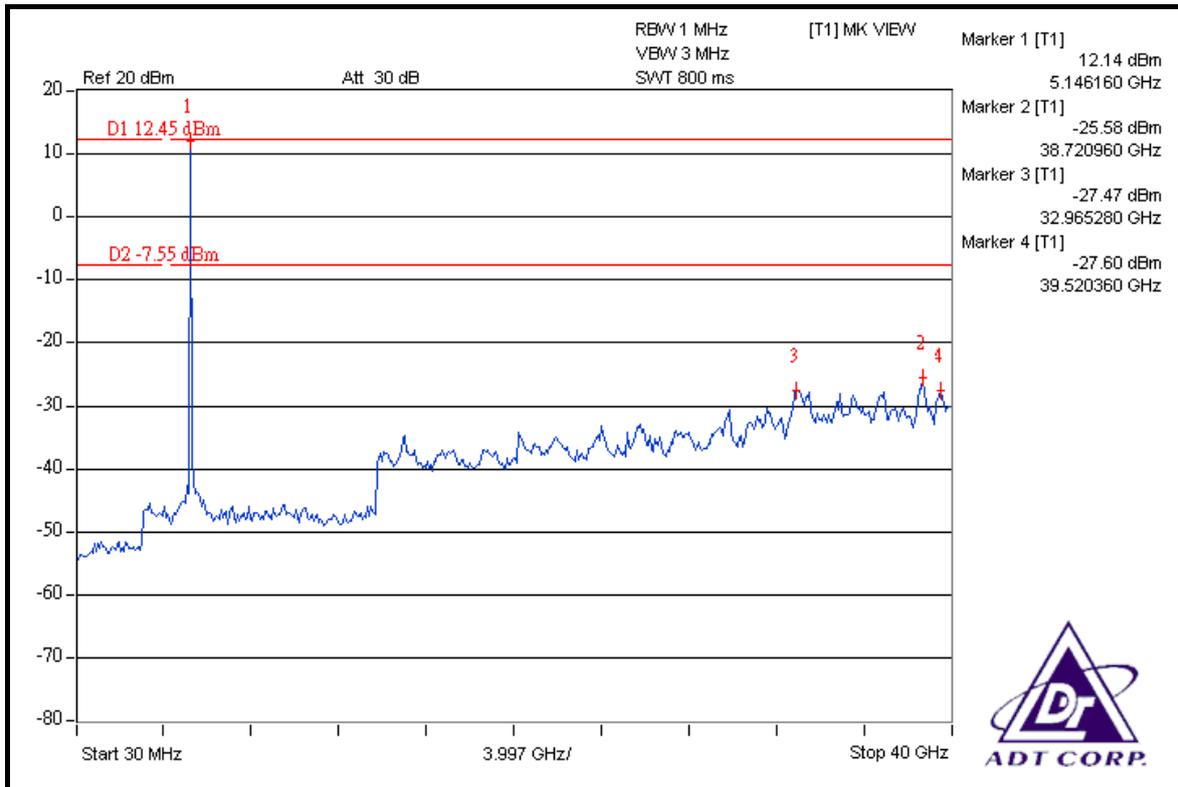
The band edge emission plot on the next page shows 50.71dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 102.91dBuV/m (Average), so the maximum field strength in restrict band is $102.91 - 50.71 = 52.20$ dBuV/m which is under 54dBuV/m limit.

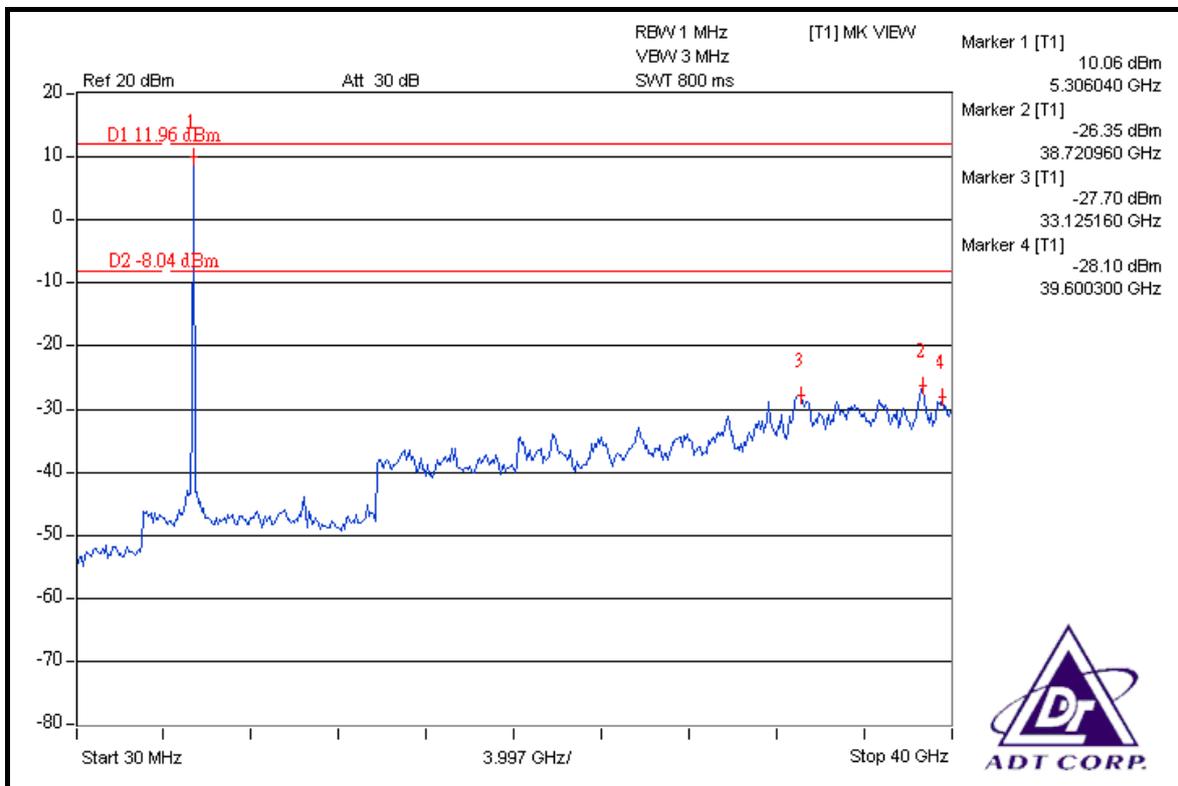
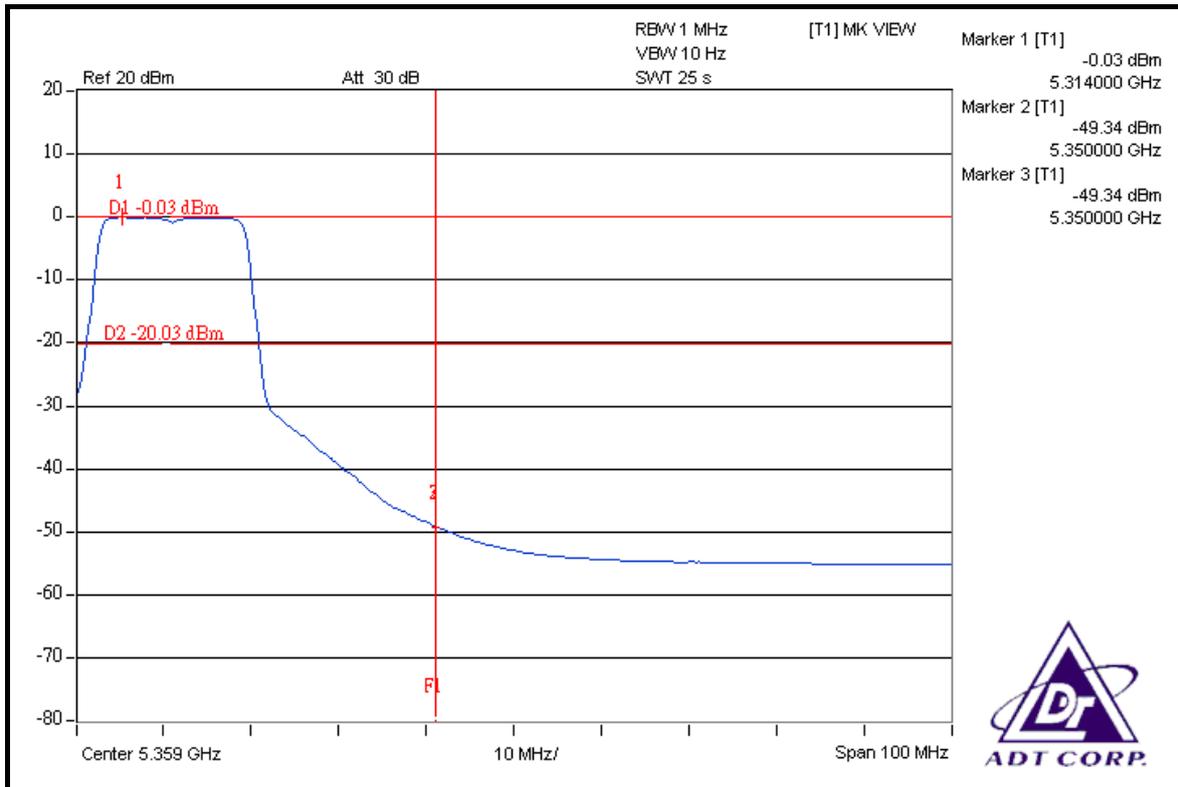
Channel 64 (5320MHz)

The band edge emission plot on the next second page shows 39.67dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 112.96dBuV/m (Peak), so the maximum field strength in restrict band is $112.96 - 39.67 = 73.29$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 49.31dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 102.23dBuV/m (Average), so the maximum field strength in restrict band is $102.23 - 49.31 = 52.92$ dBuV/m which is under 54dBuV/m limit.







FOR 5470-5725MHz BAND: 802.11a OFDM MODULATION

TEST MODE A

Channel 100 (5500MHz)

The band edge emission plot (5.460GHz) on the next second page shows 50.63dBc between carrier maximum power and local maximum emission out of band emission. The emission of carrier strength list in the test result of channel 100 is 112.26dBuV/m (Peak), so the maximum field strength out of band emission is $112.26 - 50.63 = 61.63$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot (5.460GHz) on the next second page shows 54.42dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 101.91dBuV/m (Average), so the maximum field strength in restrict band is $101.91 - 54.42 = 47.49$ dBuV/m which is under 54dBuV/m limit.

The band edge emission plot (5.470GHz) on the next second page shows 45.09dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 112.26dBuV/m (Peak), so the maximum field strength in restrict band is $112.26 - 45.09 = 67.17$ dBuV/m which is under 68.3dBuV/m limit.

Channel 140 (5700MHz)

The band edge emission plot on the next third page shows 44.80dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 140 is 111.42dBuV/m (Peak), so the maximum field strength in restrict band is $111.42 - 44.80 = 66.62$ dBuV/m which is under 68.3dBuV/m limit.

TEST MODE B

Channel 100 (5500MHz)

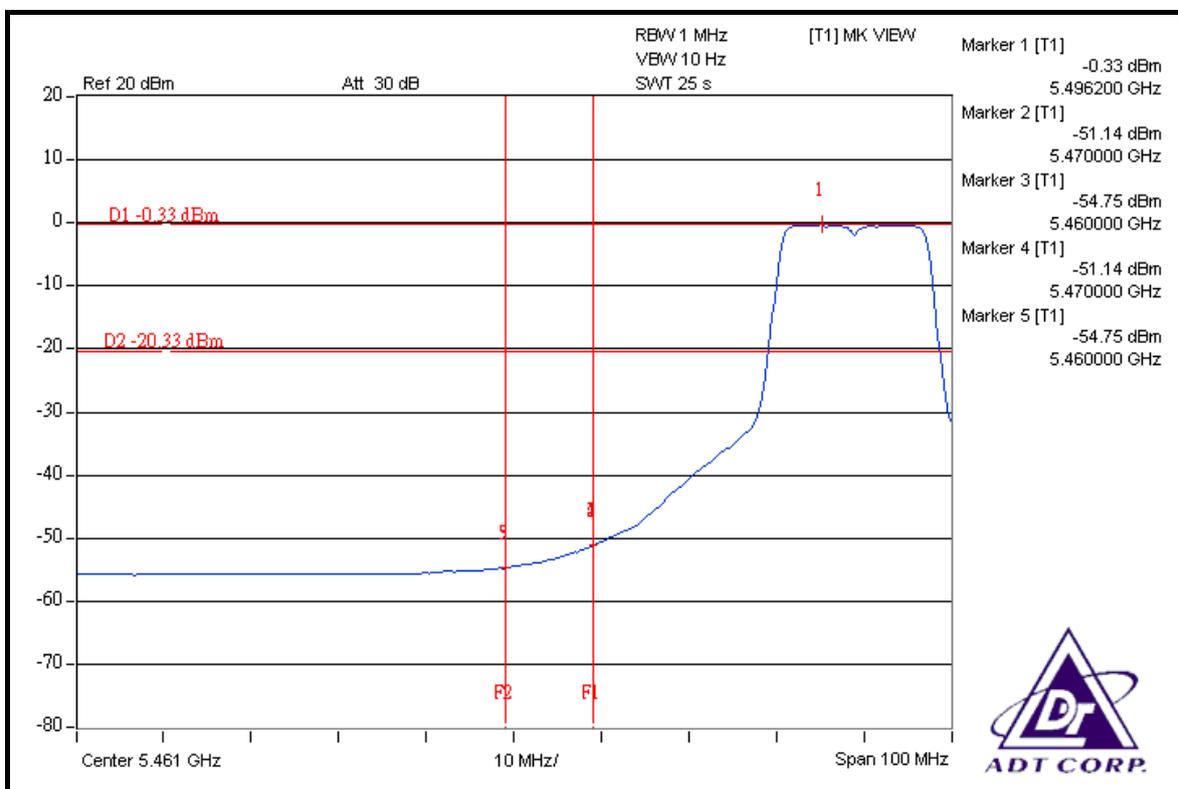
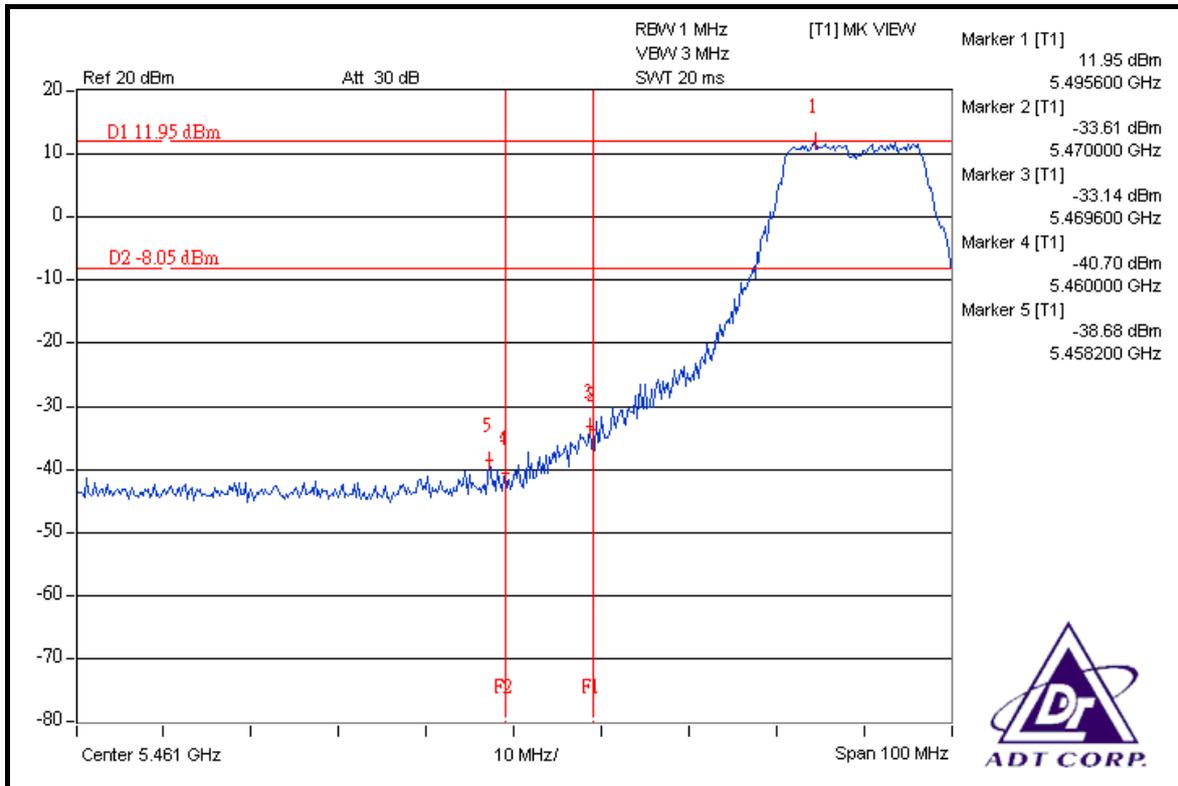
The band edge emission plot (5.460GHz) on the next second page shows 50.63dBc between carrier maximum power and local maximum emission out of band emission. The emission of carrier strength list in the test result of channel 100 is 112.31dBuV/m (Peak), so the maximum field strength out of band emission is $112.31 - 50.63 = 61.68$ dBuV/m which is under 74dBuV/m limit.

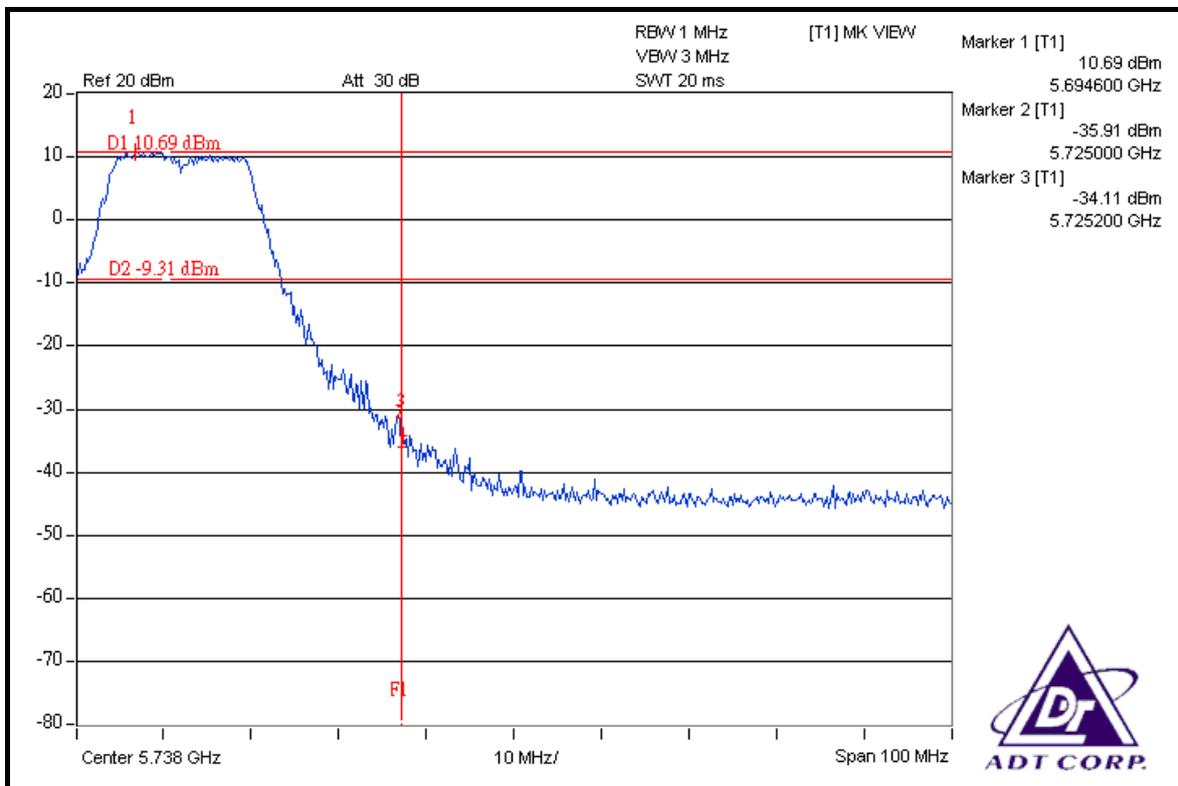
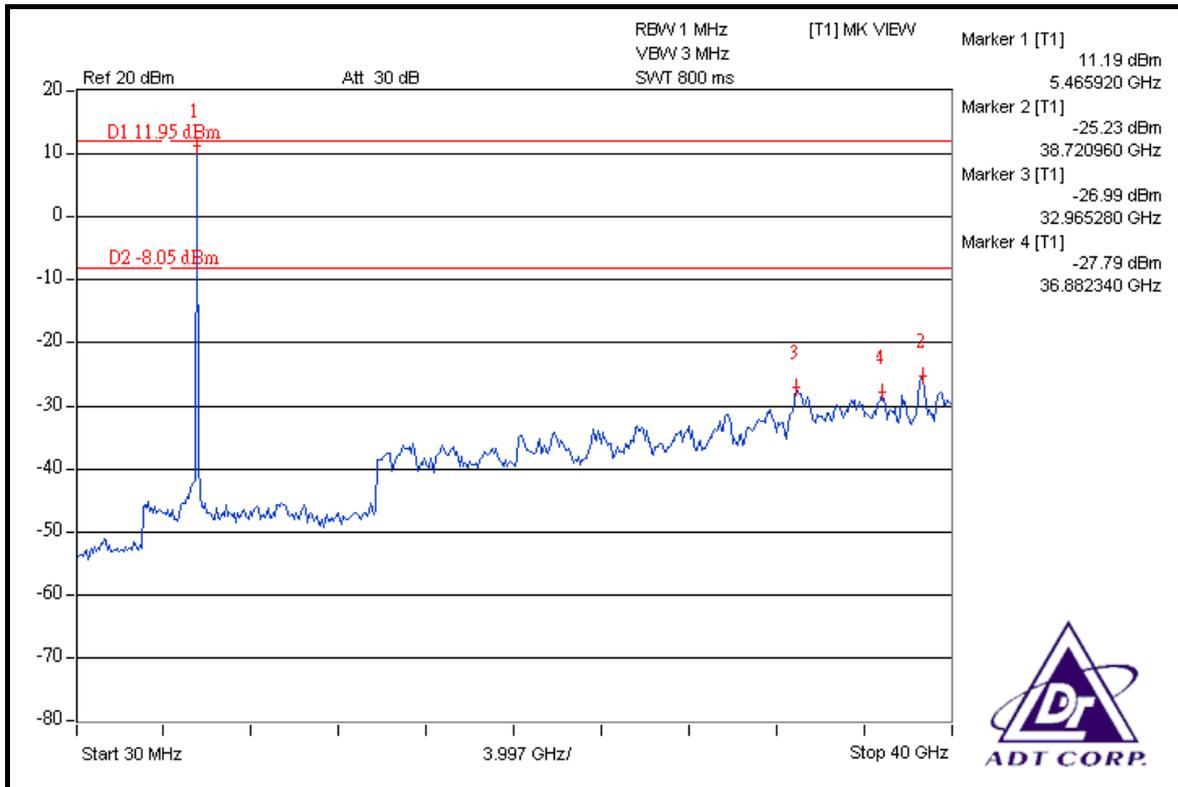
The band edge emission plot (5.460GHz) on the next second page shows 54.42dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 101.04dBuV/m (Average), so the maximum field strength in restrict band is $101.04 - 54.42 = 46.62$ dBuV/m which is under 54dBuV/m limit.

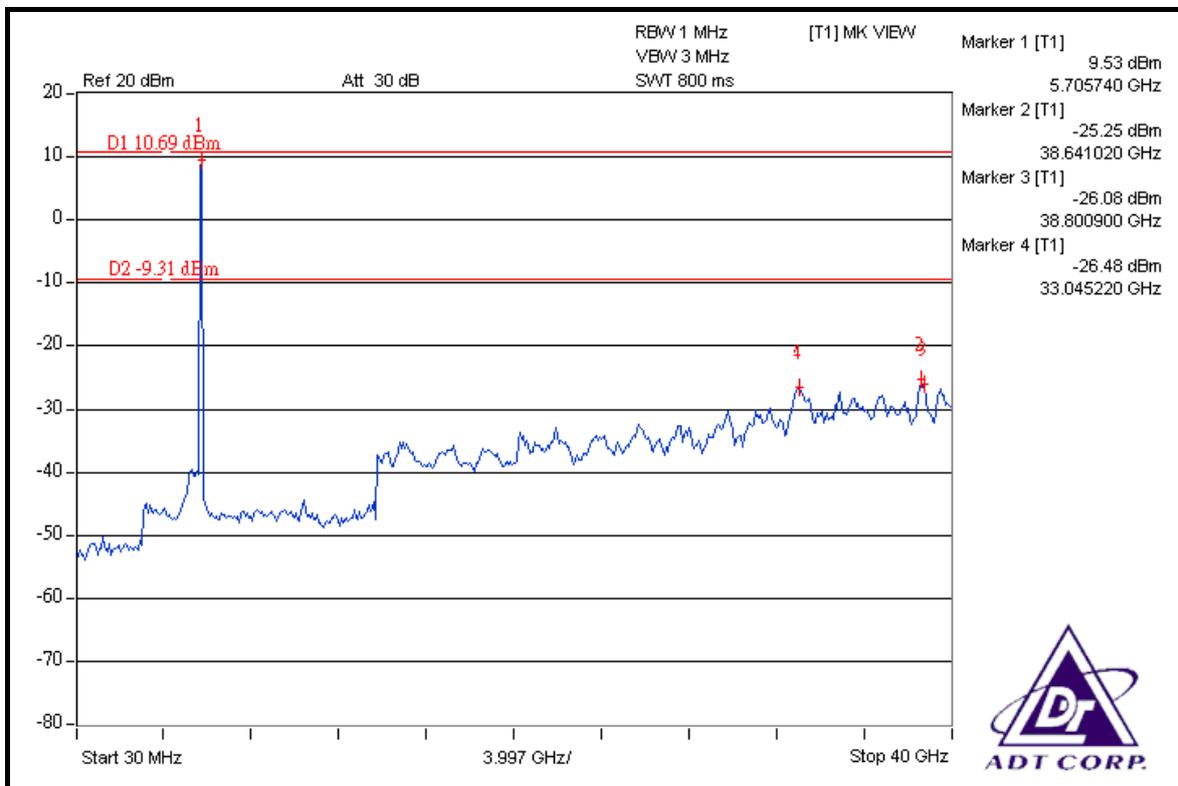
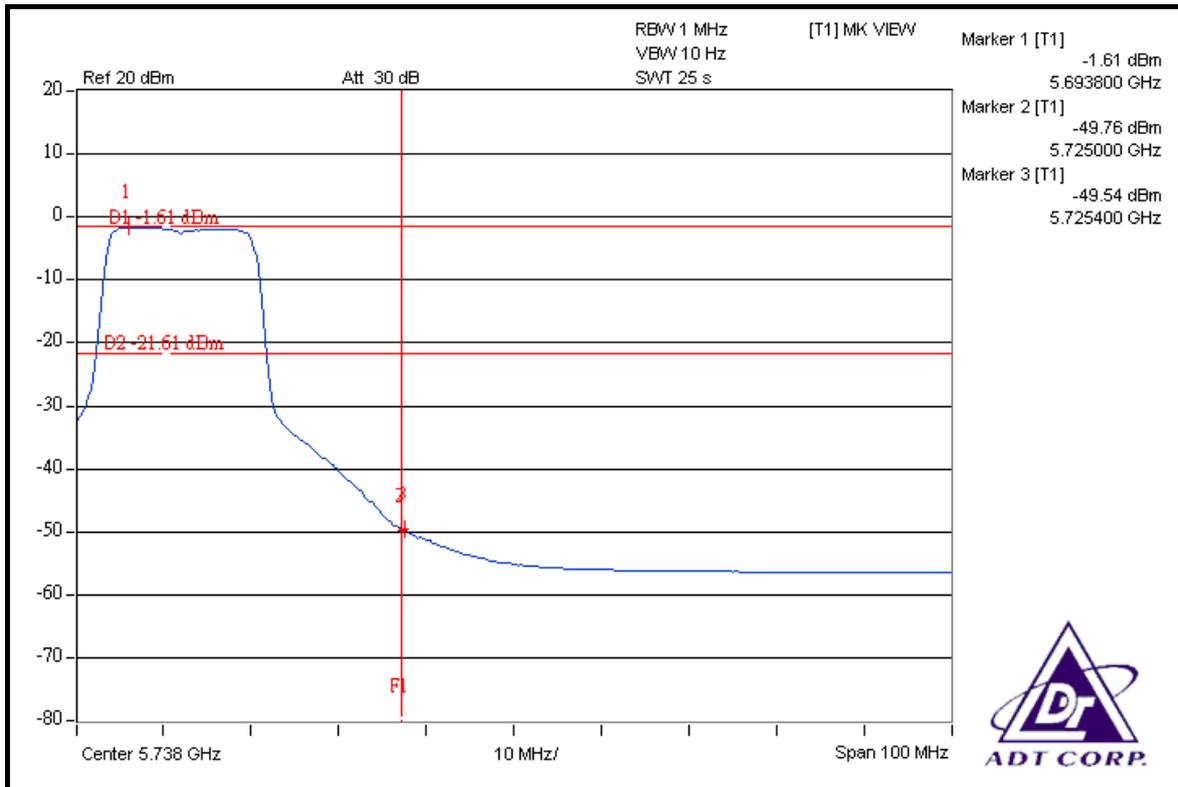
The band edge emission plot (5.470GHz) on the next second page shows 45.09dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 112.31dBuV/m (Peak), so the maximum field strength in restrict band is $112.31 - 45.09 = 67.22$ dBuV/m which is under 68.3dBuV/m limit.

Channel 140 (5700MHz)

The band edge emission plot on the next third page shows 44.80dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 140 is 110.59dBuV/m (Peak), so the maximum field strength in restrict band is $110.59 - 44.80 = 65.79$ dBuV/m which is under 68.3dBuV/m limit.







FOR 5150-5350MHz BAND: DRAFT 802.11n (20MHz) OFDM MODULATION

TEST MODE A

Channel 36 (5180MHz)

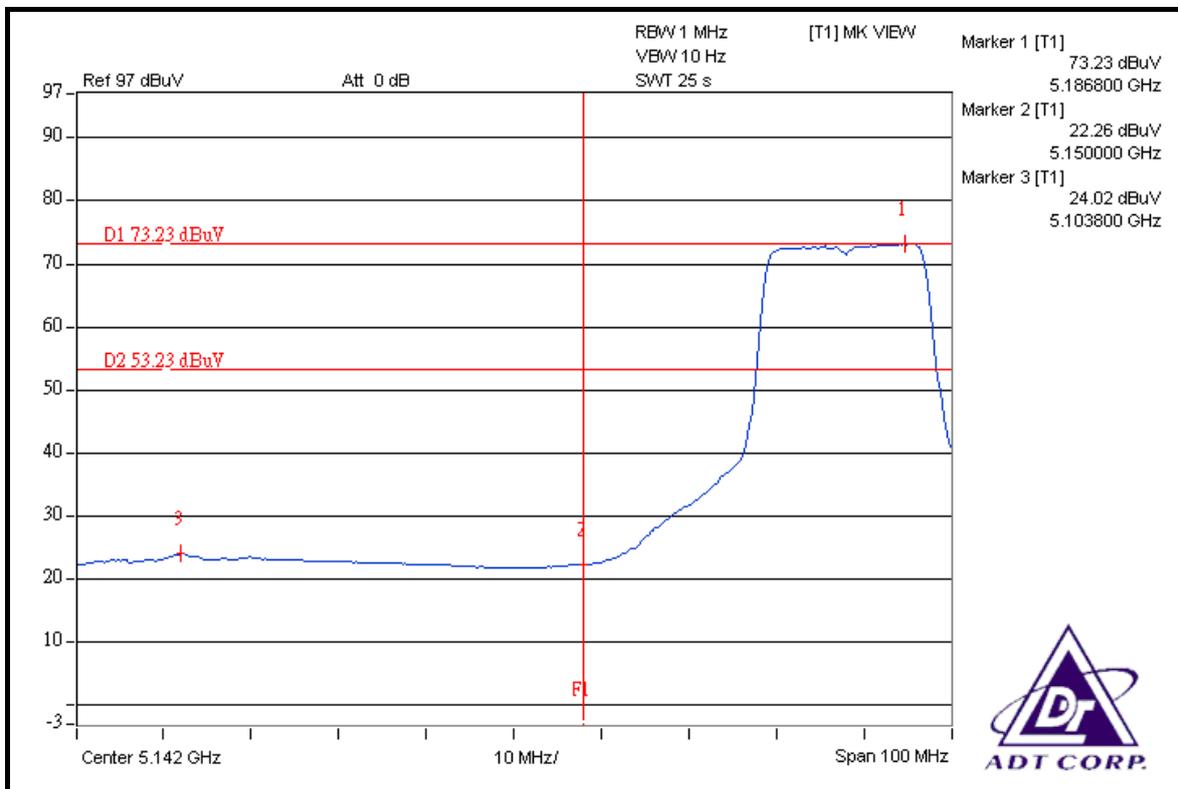
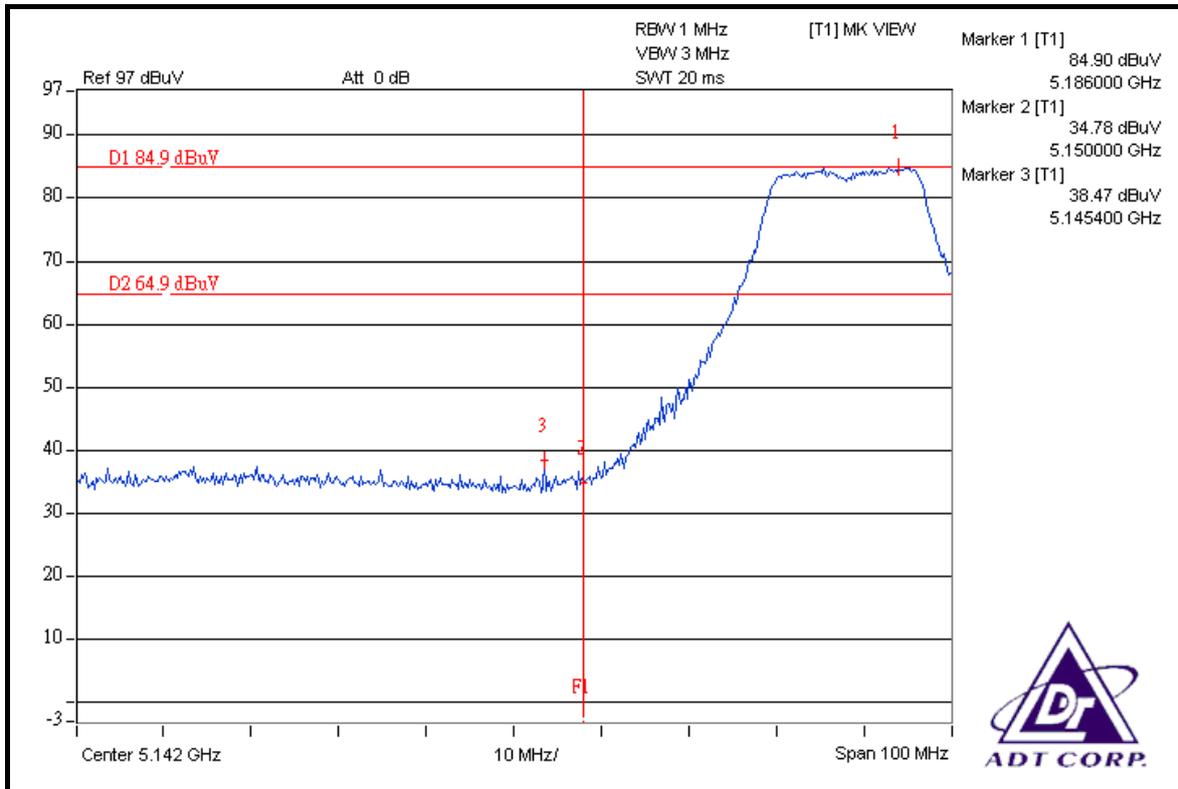
The band edge emission plot on the next page shows 46.43dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 113.13dBuV/m (Peak), so the maximum field strength in restrict band is $113.13 - 46.43 = 66.70$ dBuV/m which is under 74dBuV/m limit.

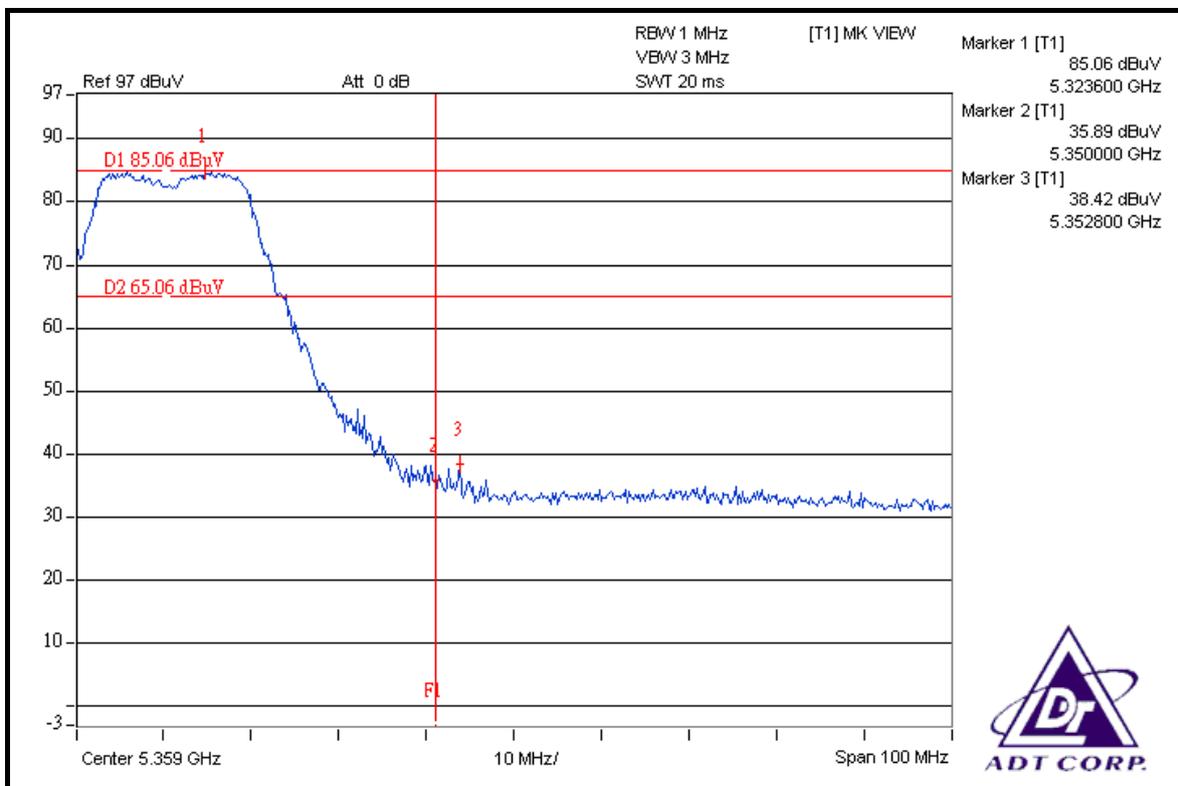
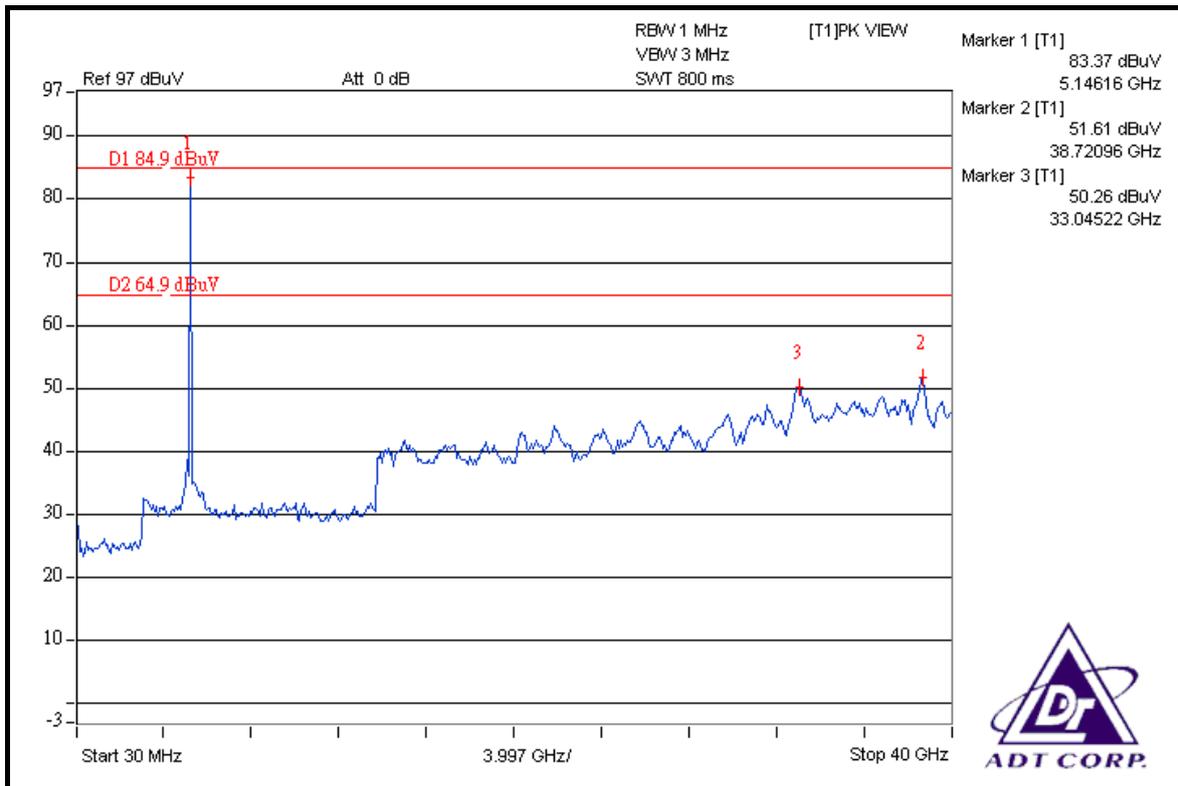
The band edge emission plot on the next page shows 49.21dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 102.19dBuV/m (Average), so the maximum field strength in restrict band is $102.19 - 49.21 = 52.98$ dBuV/m which is under 54dBuV/m limit.

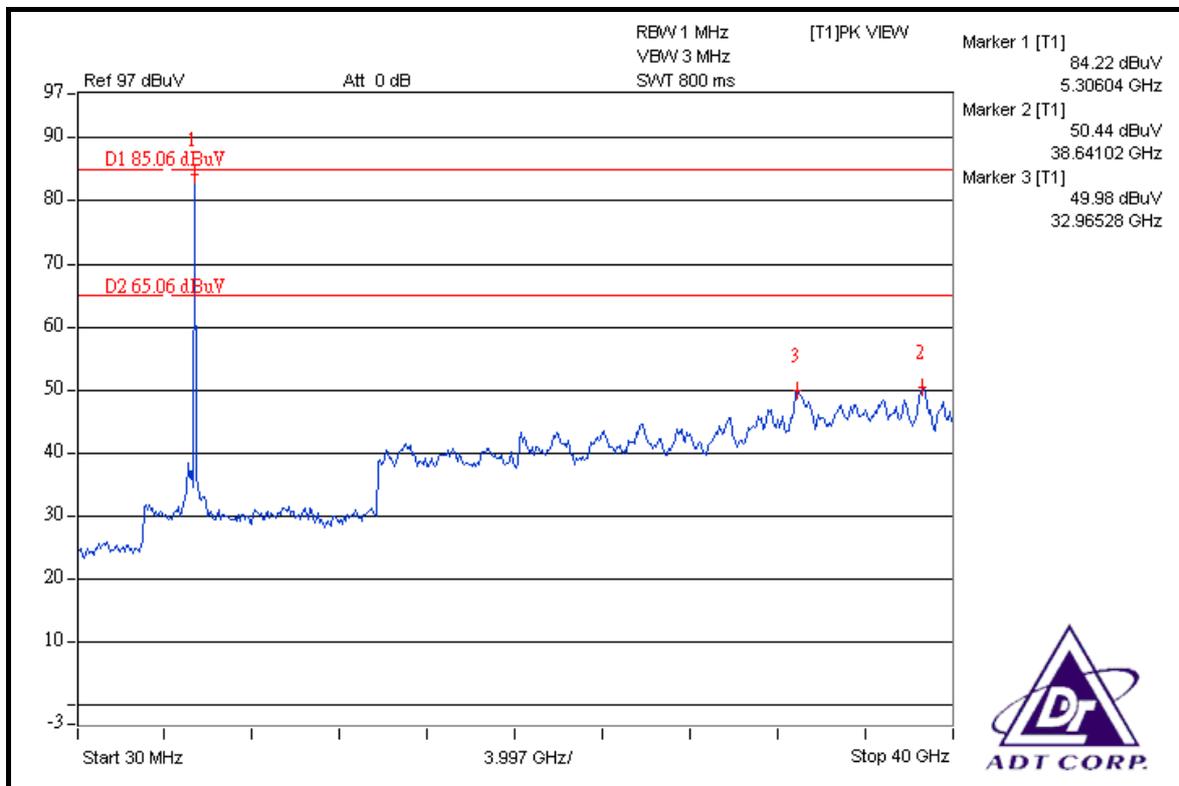
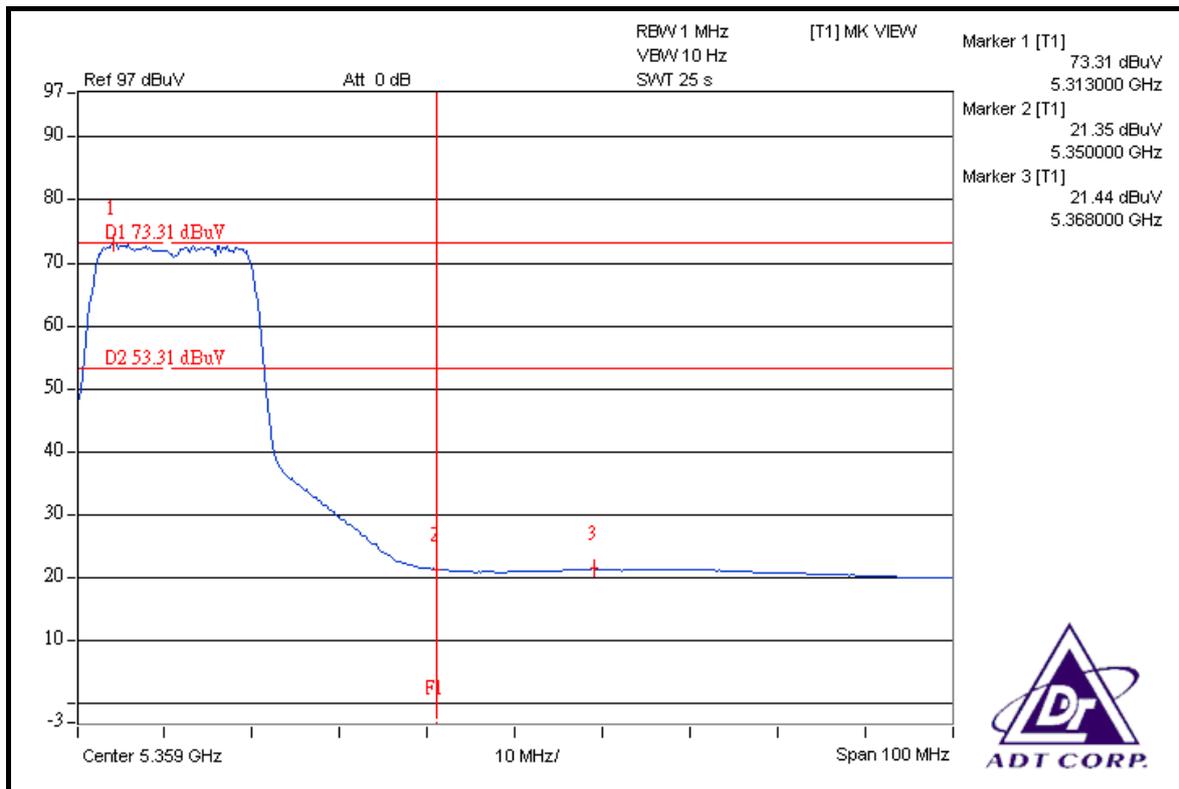
Channel 64 (5320MHz)

The band edge emission plot on the next second page shows 46.64dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 112.49dBuV/m (Peak), so the maximum field strength in restrict band is $112.49 - 46.64 = 65.85$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 51.87dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 101.43dBuV/m (Average), so the maximum field strength in restrict band is $101.43 - 51.87 = 49.56$ dBuV/m which is under 54dBuV/m limit.







TEST MODE B

Channel 36 (5180MHz)

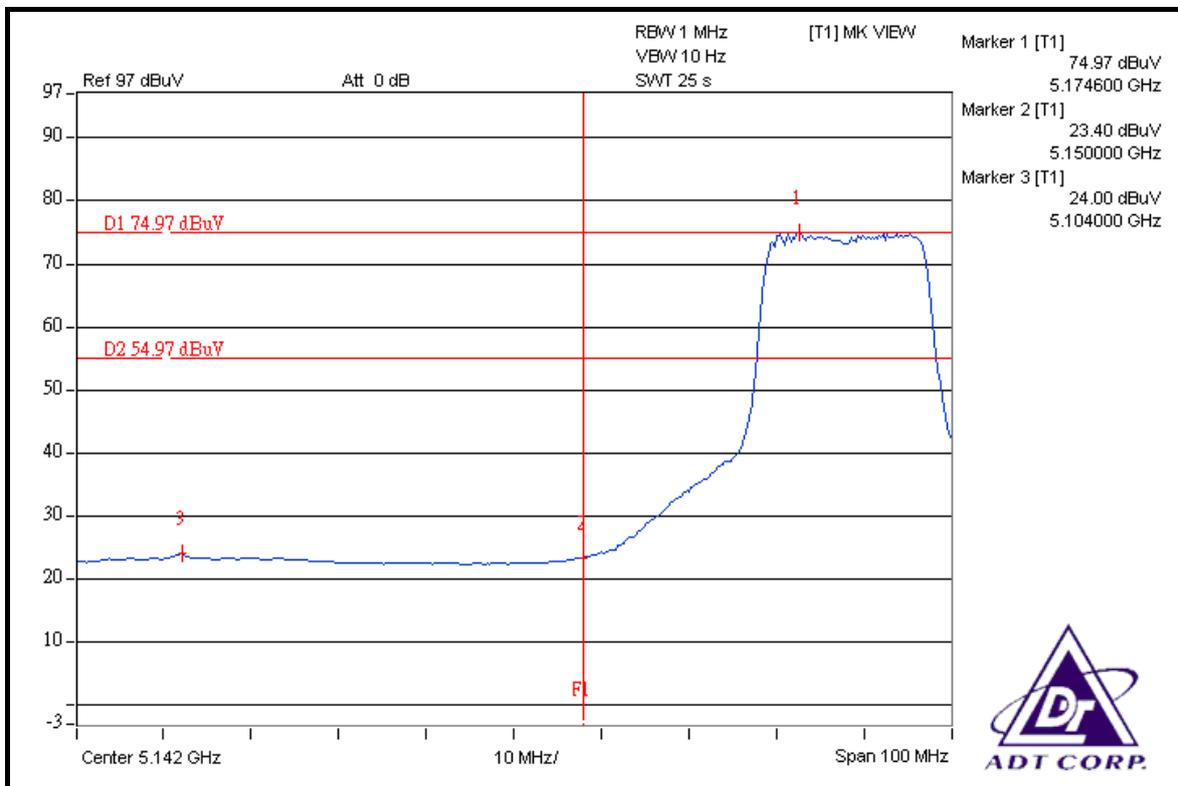
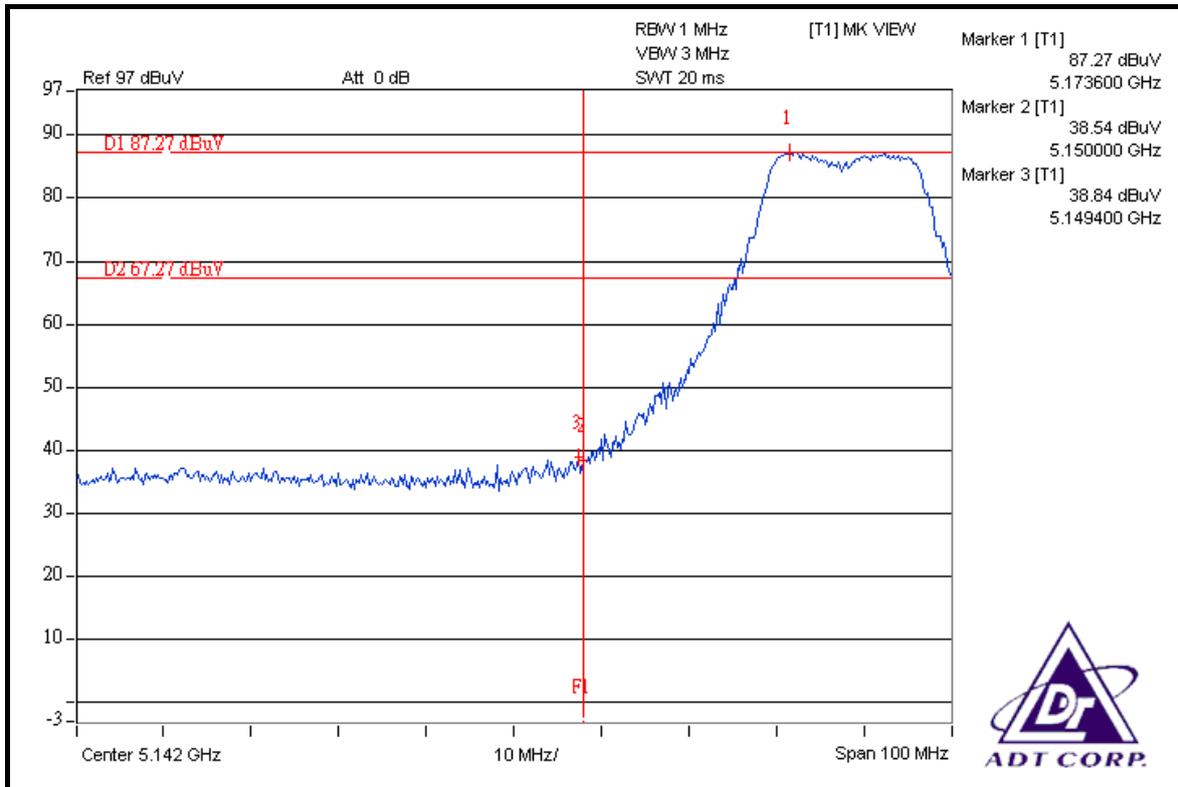
The band edge emission plot on the next page shows 48.43dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 114.10dBuV/m (Peak), so the maximum field strength in restrict band is $114.10 - 48.43 = 65.67$ dBuV/m which is under 74dBuV/m limit.

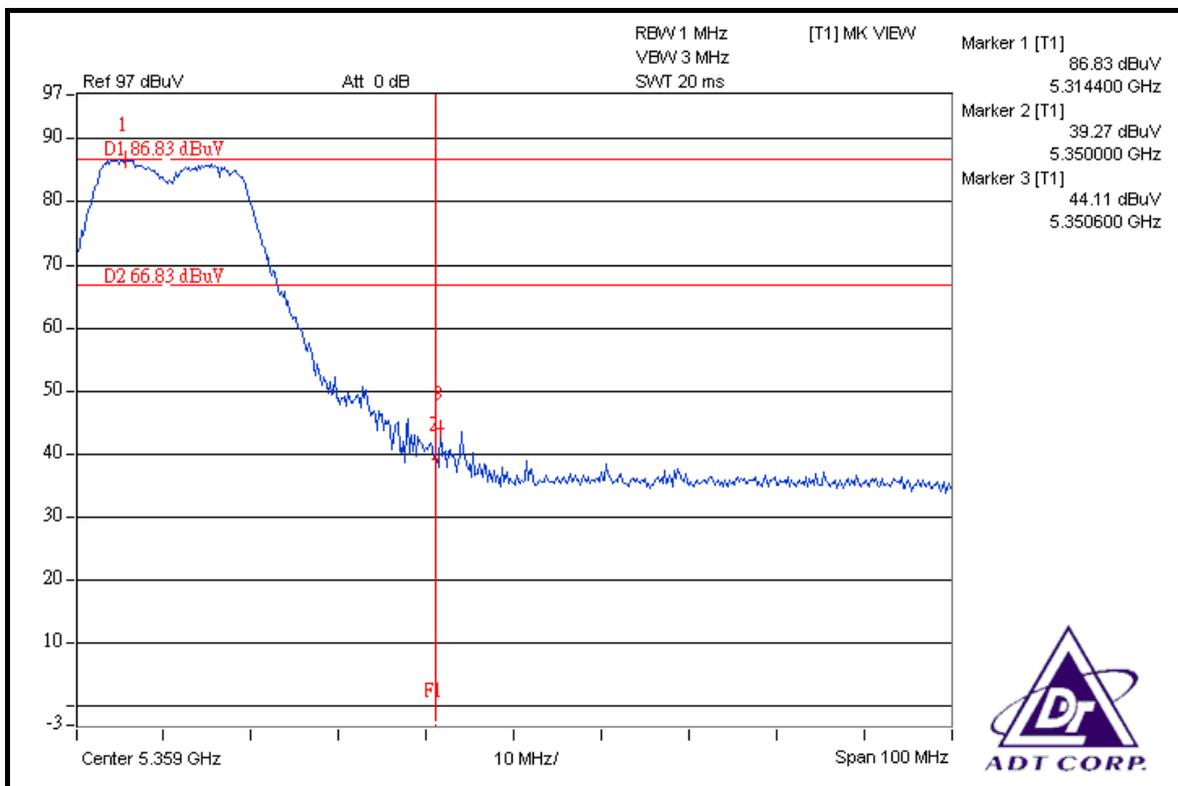
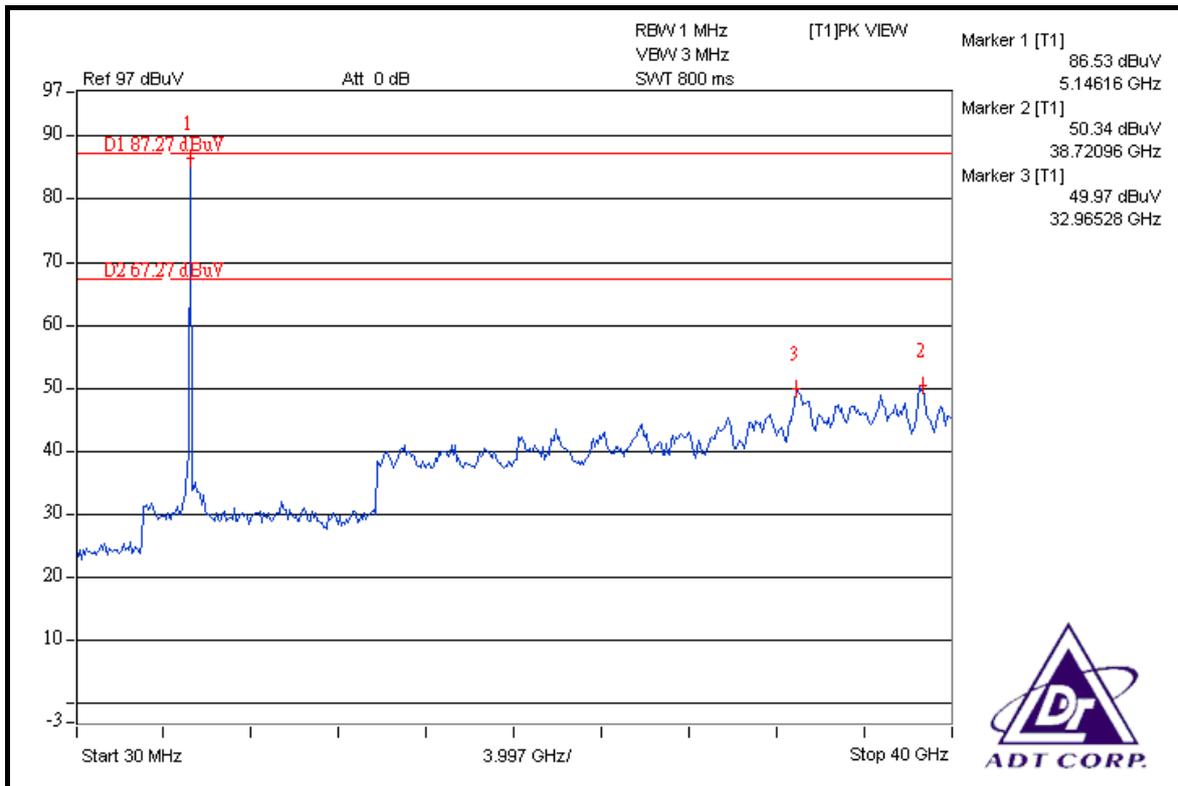
The band edge emission plot on the next page shows 50.97dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 36 is 103.03dBuV/m (Average), so the maximum field strength in restrict band is $103.03 - 50.97 = 52.06$ dBuV/m which is under 54dBuV/m limit.

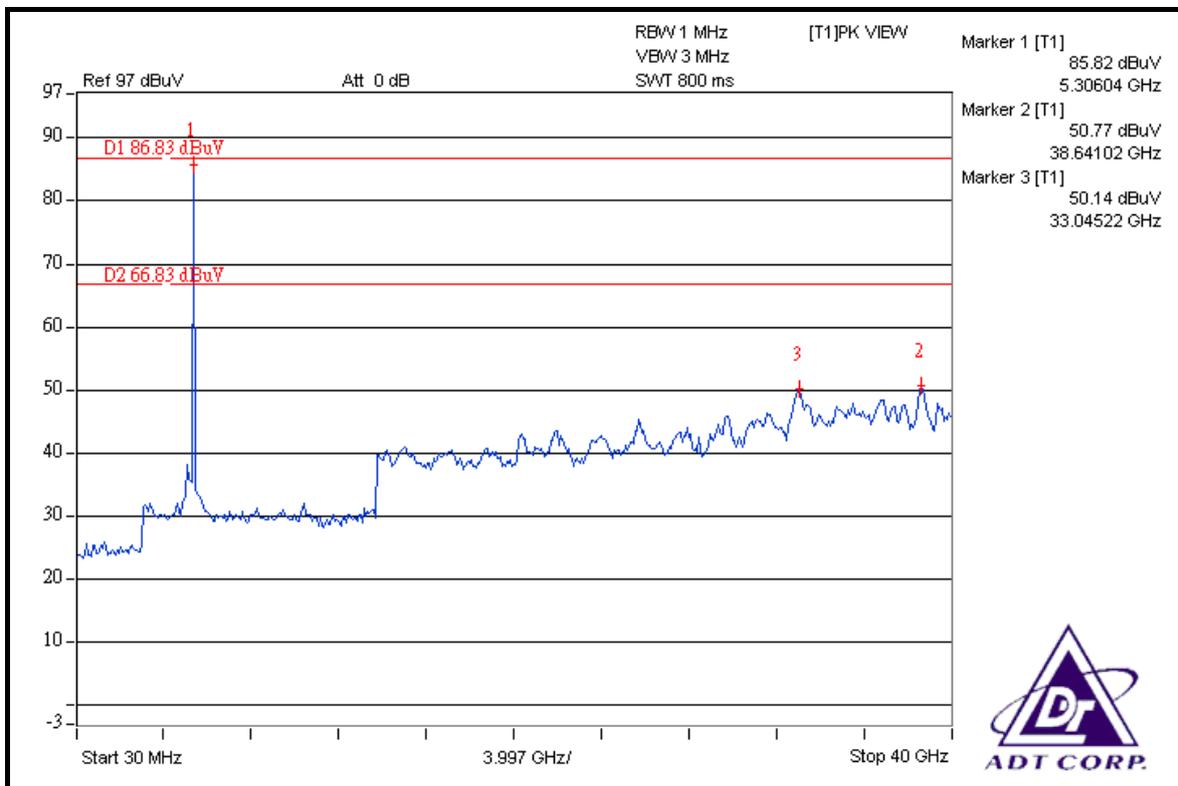
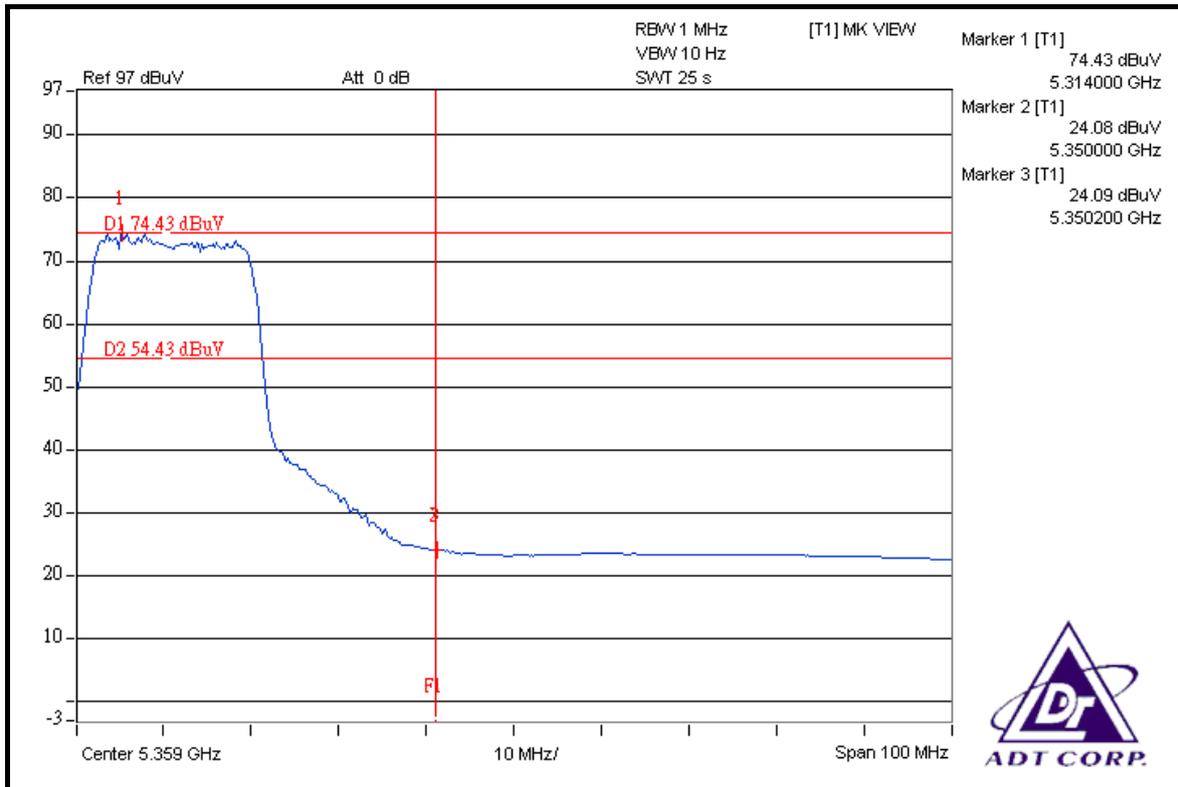
Channel 64 (5320MHz)

The band edge emission plot on the next second page shows 42.72dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 113.15dBuV/m (Peak), so the maximum field strength in restrict band is $113.15 - 42.72 = 70.43$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 50.34dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 64 is 102.63dBuV/m (Average), so the maximum field strength in restrict band is $102.63 - 50.34 = 52.29$ dBuV/m which is under 54dBuV/m limit.







FOR 5470-5725MHz BAND: DRAFT 802.11n (20MHz) OFDM MODULATION

TEST MODE A

Channel 100 (5500MHz)

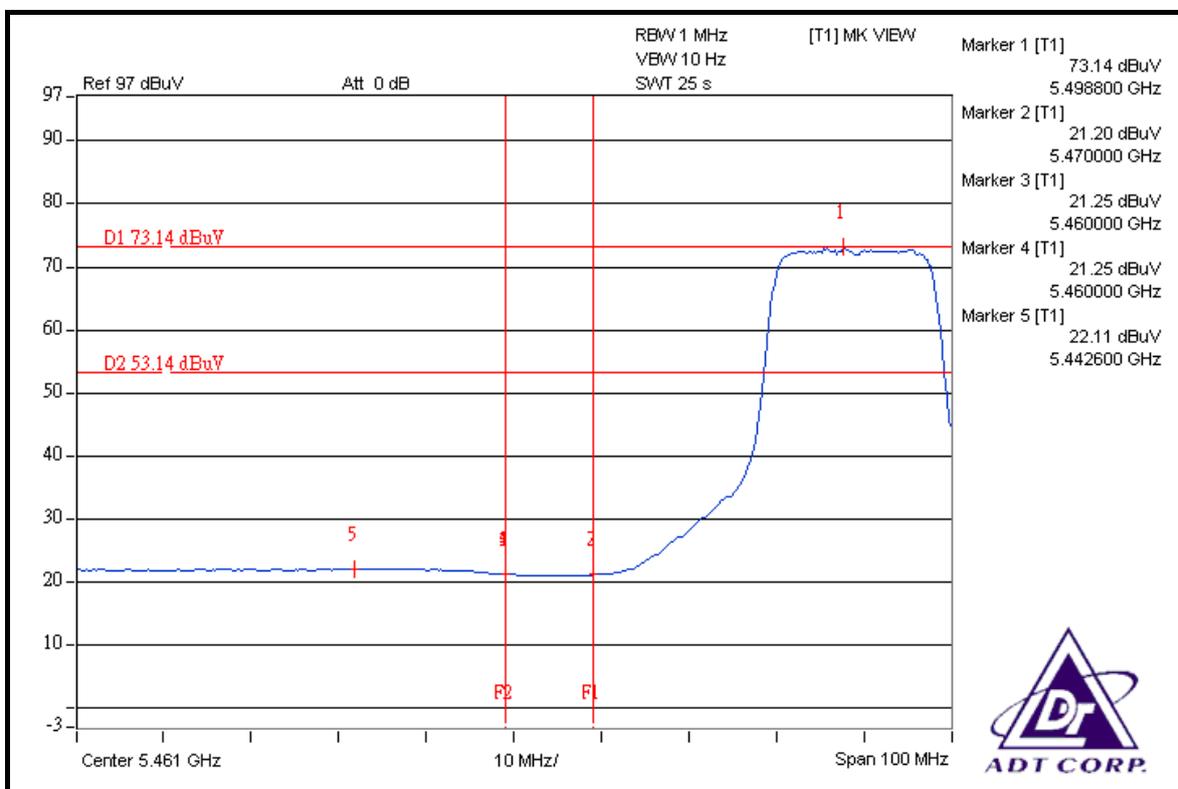
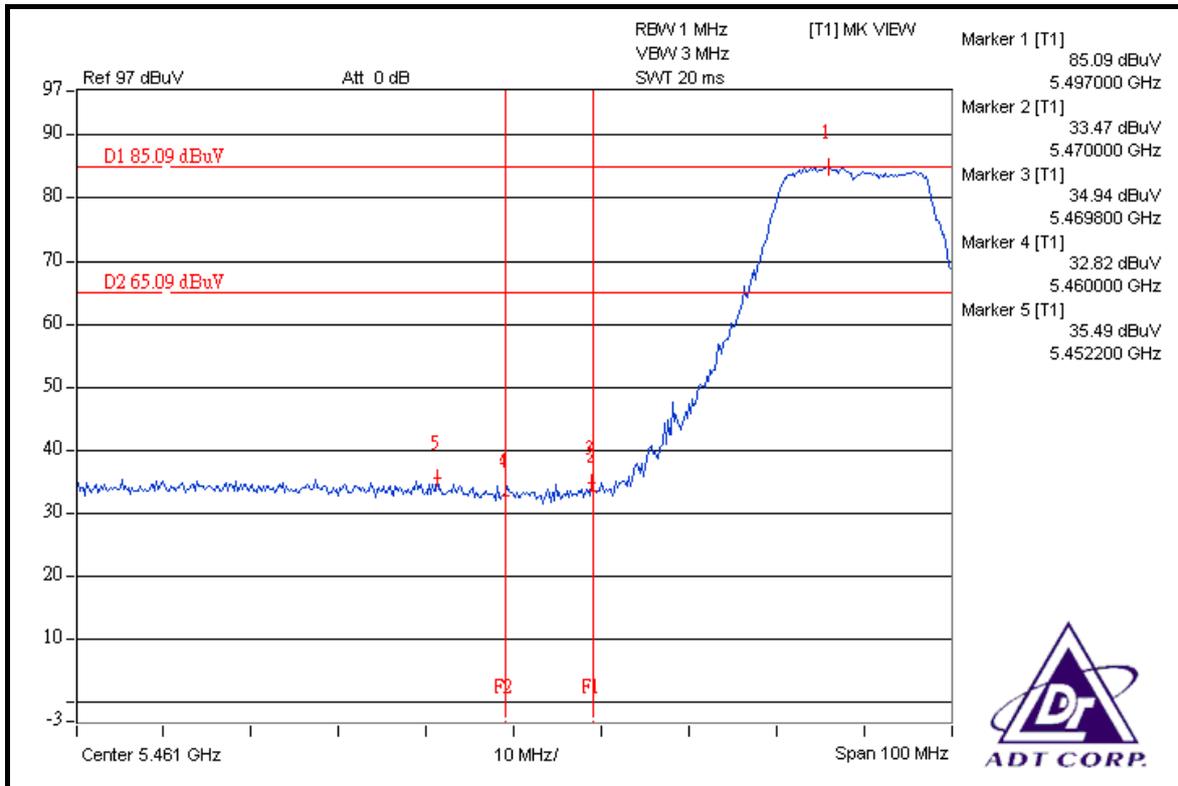
The band edge emission plot (5.460GHz) on the next page shows 49.60dBc between carrier maximum power and local maximum emission out of band emission. The emission of carrier strength list in the test result of channel 100 is 113.79dBuV/m (Peak), so the maximum field strength out of band emission is $113.79 - 49.60 = 64.19$ dBuV/m which is under 74dBuV/m limit.

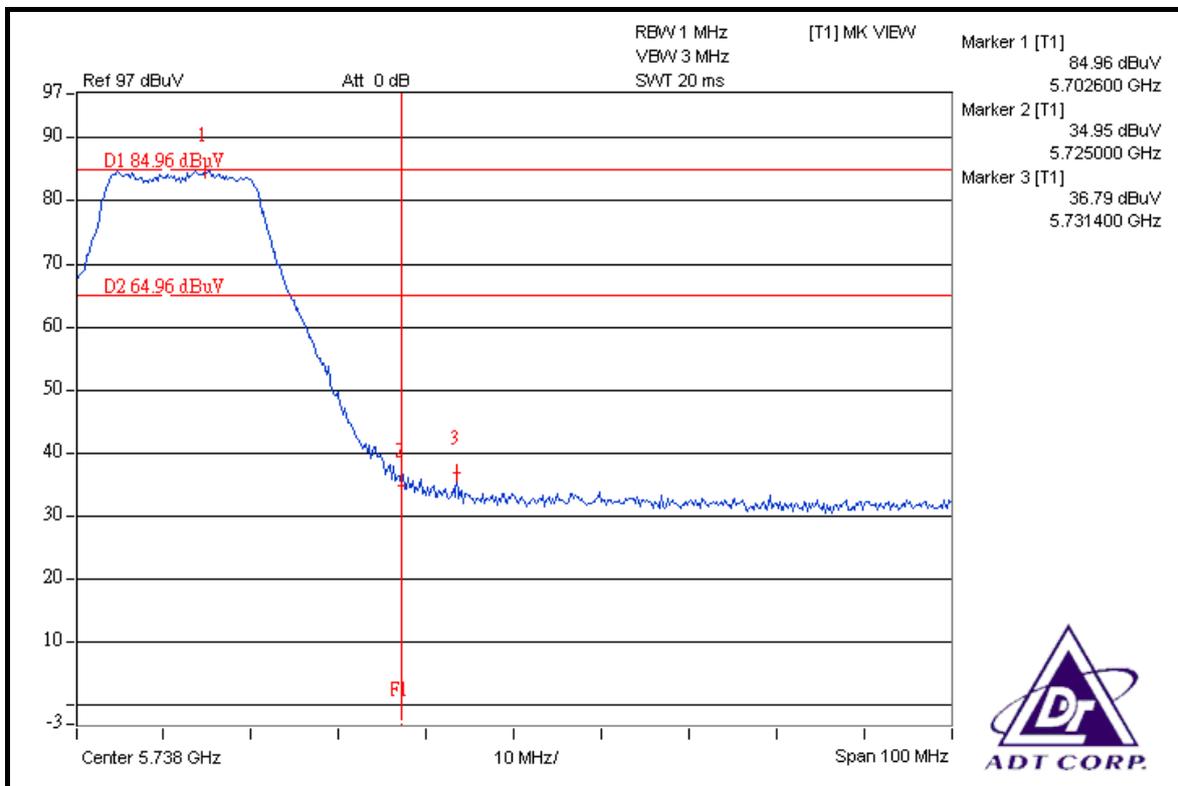
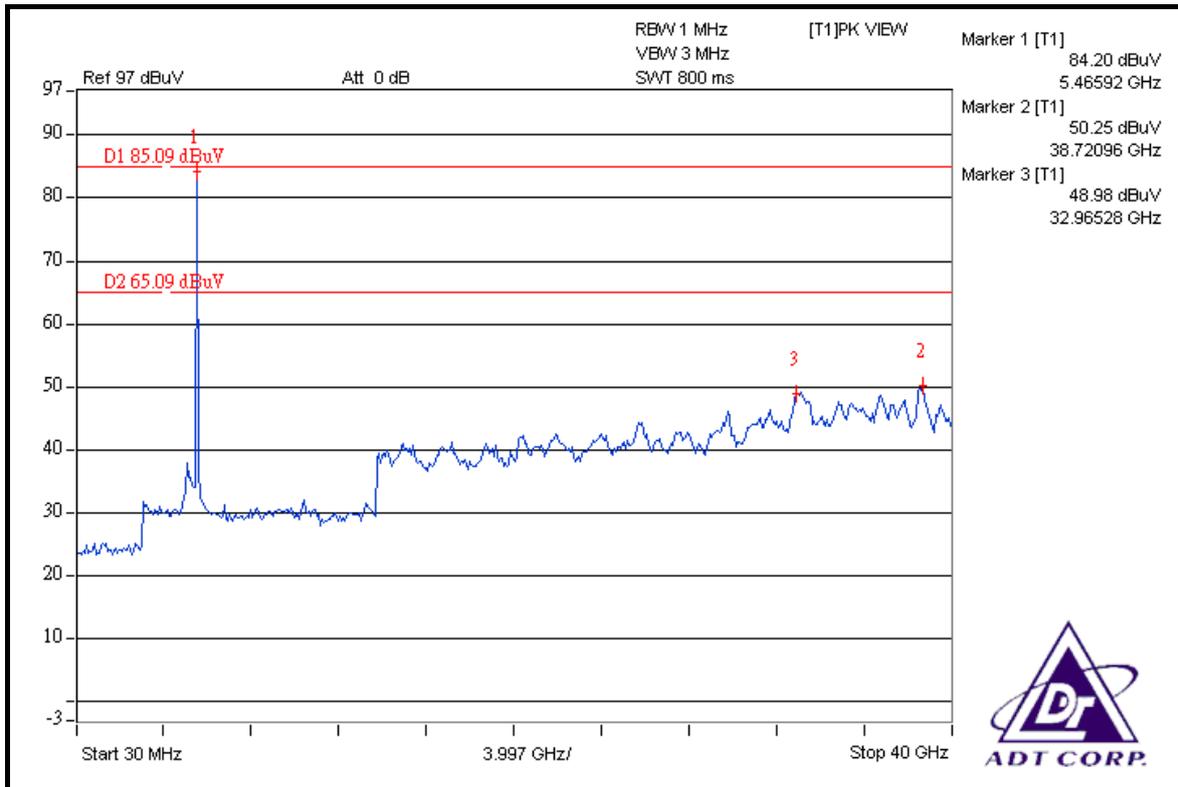
The band edge emission plot (5.460GHz) on the next page shows 51.03dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 102.81dBuV/m (Average), so the maximum field strength in restrict band is $102.81 - 51.03 = 51.78$ dBuV/m which is under 54dBuV/m limit.

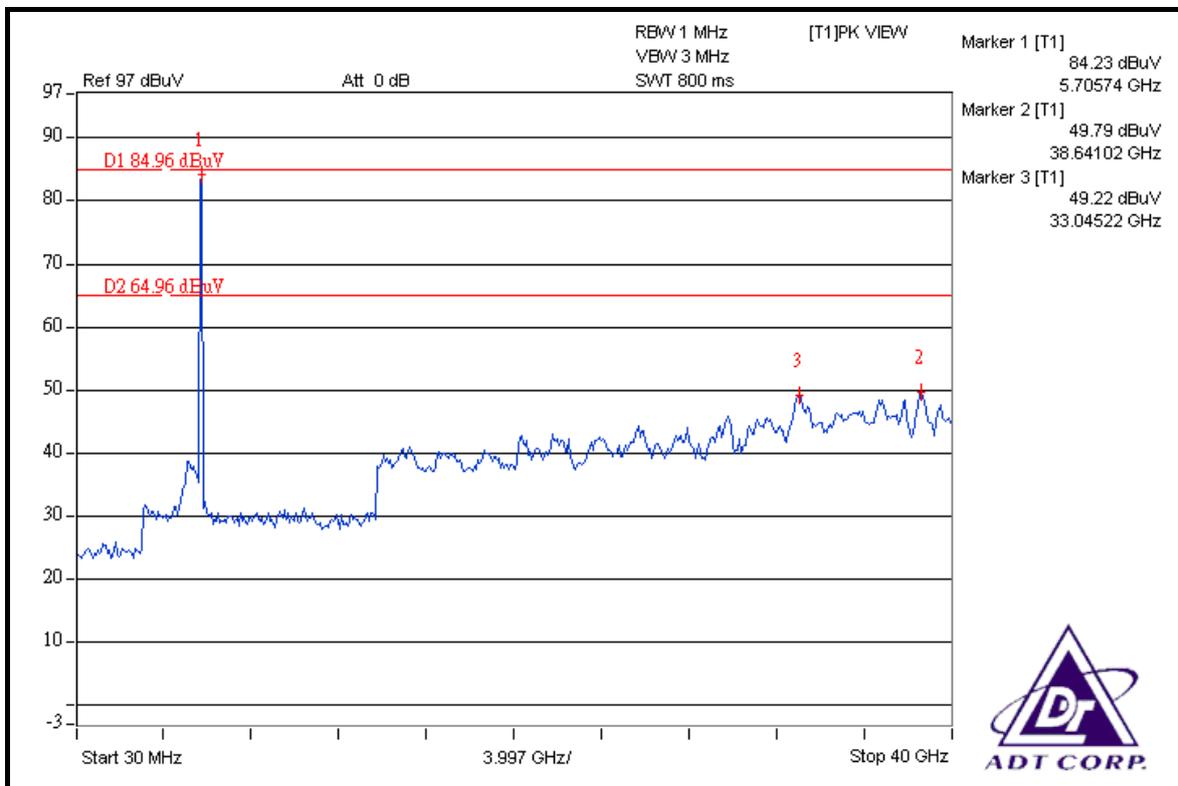
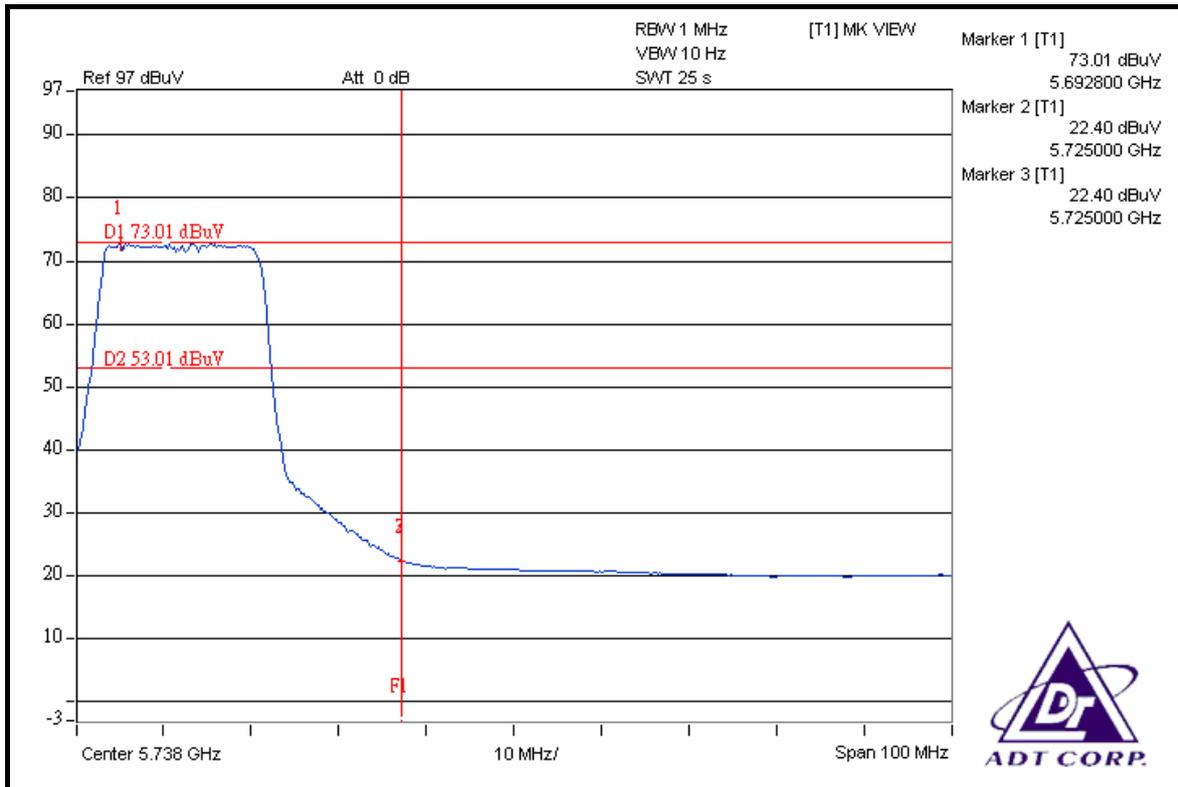
The band edge emission plot (5.470GHz) on the next page shows 50.15dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 113.79dBuV/m (Peak), so the maximum field strength in restrict band is $113.79 - 50.15 = 63.64$ dBuV/m which is under 68.3dBuV/m limit.

Channel 140 (5700MHz)

The band edge emission plot on the next second page shows 48.17dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 140 is 111.72dBuV/m (Peak), so the maximum field strength in restrict band is $111.72 - 48.17 = 63.55$ dBuV/m which is under 68.3dBuV/m limit.







TEST MODE B

Channel 100 (5500MHz)

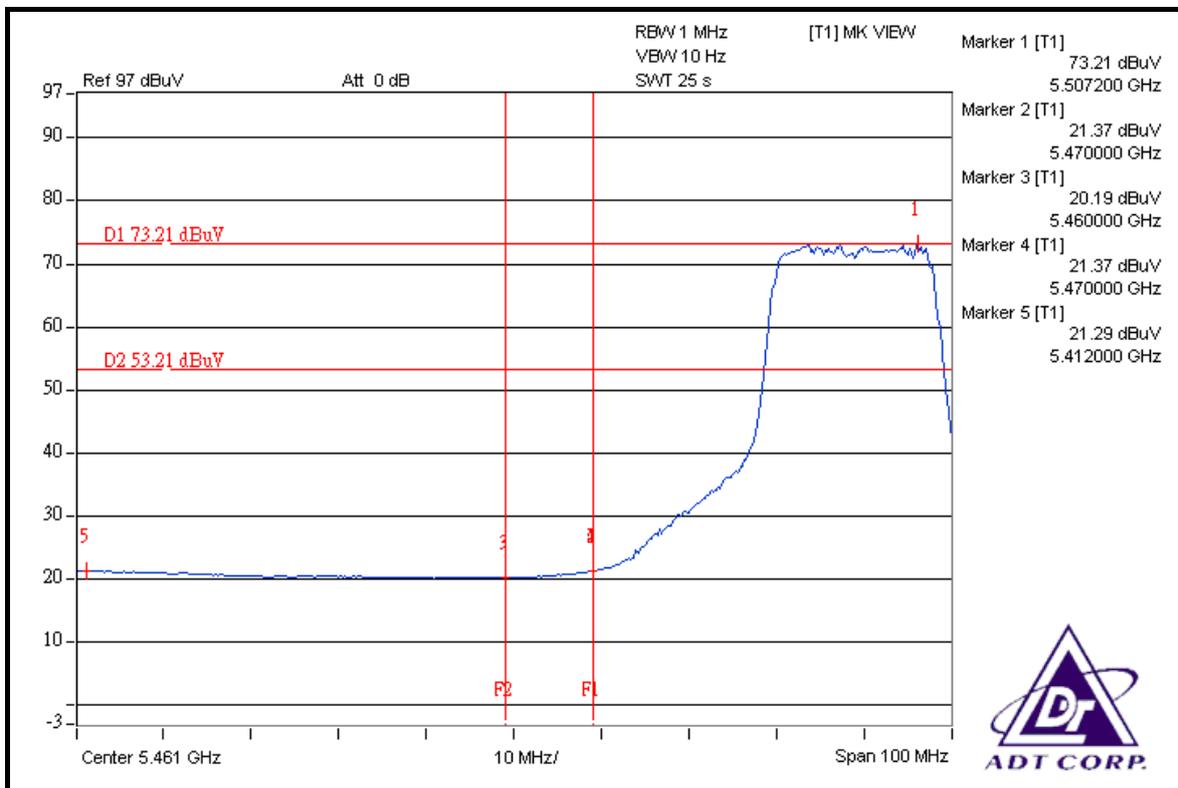
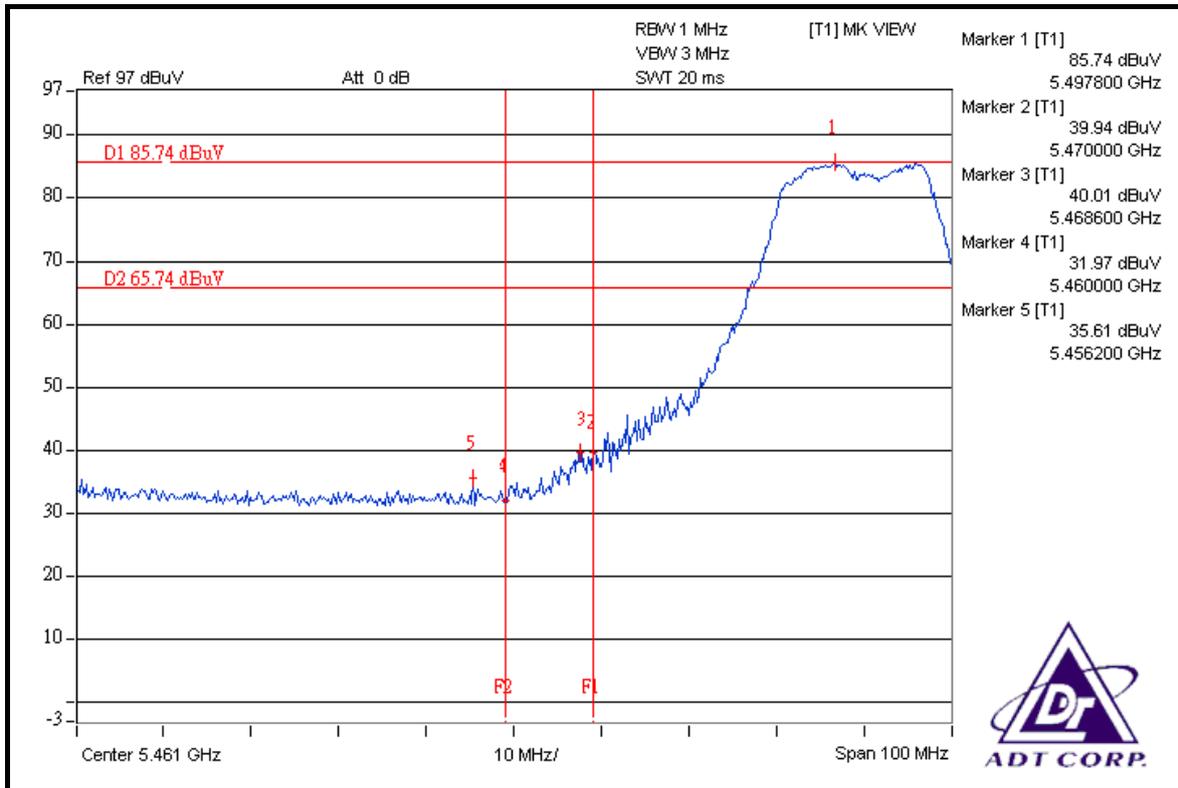
The band edge emission plot (5.460GHz) on the next page shows 50.13dBc between carrier maximum power and local maximum emission out of band emission. The emission of carrier strength list in the test result of channel 100 is 112.85dBuV/m (Peak), so the maximum field strength out of band emission is $112.85 - 50.13 = 62.72$ dBuV/m which is under 74dBuV/m limit.

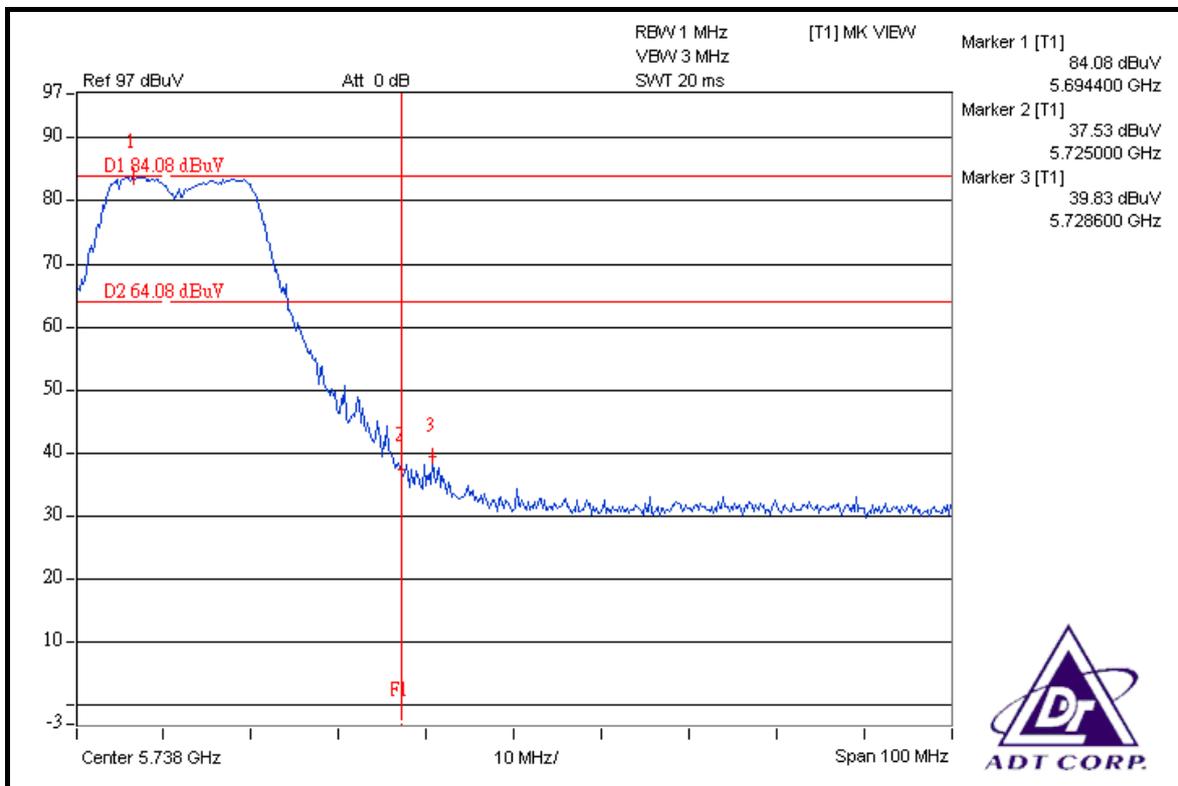
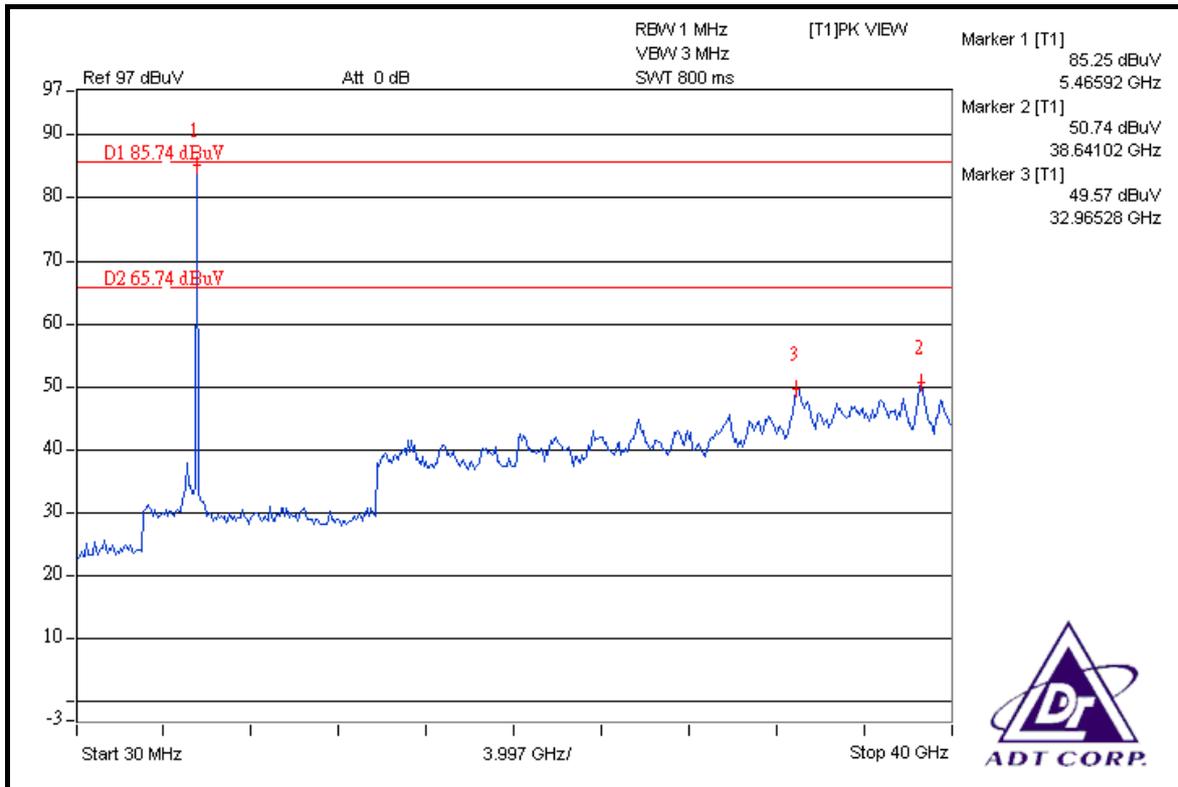
The band edge emission plot (5.460GHz) on the next page shows 51.92dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 101.62dBuV/m (Average), so the maximum field strength in restrict band is $101.62 - 51.92 = 49.70$ dBuV/m which is under 54dBuV/m limit.

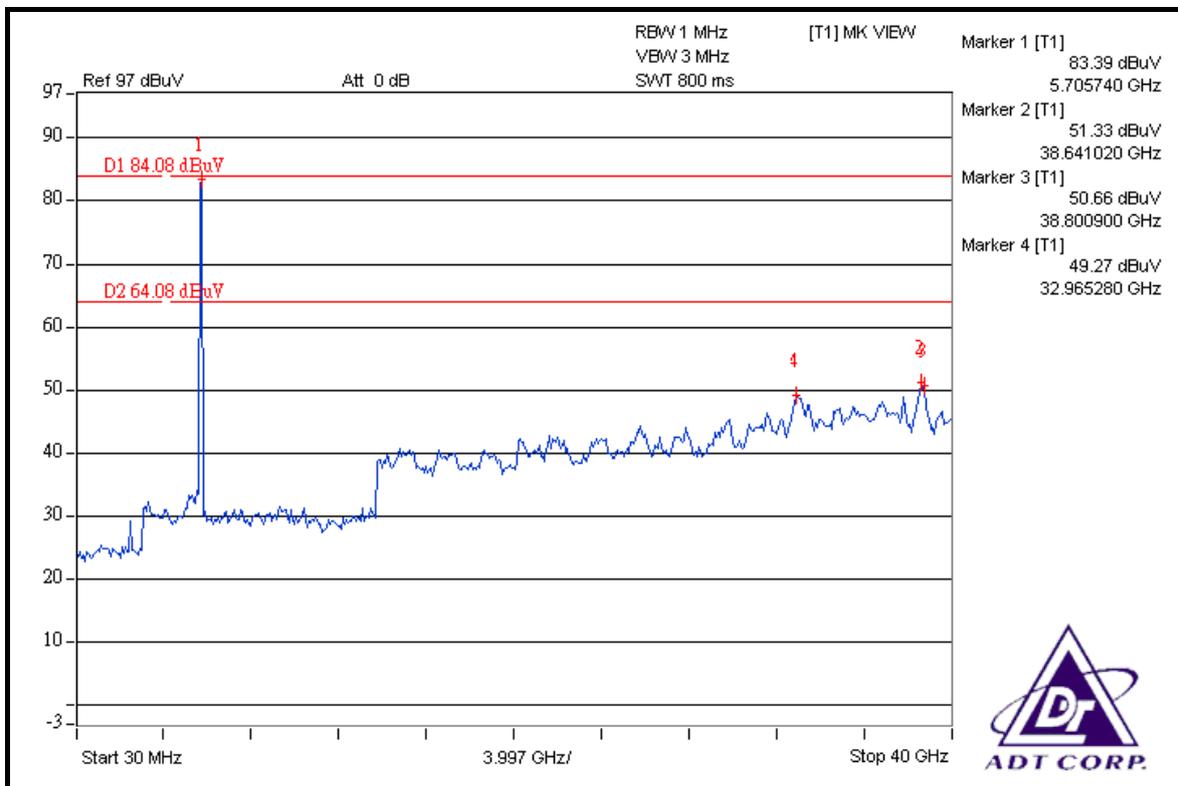
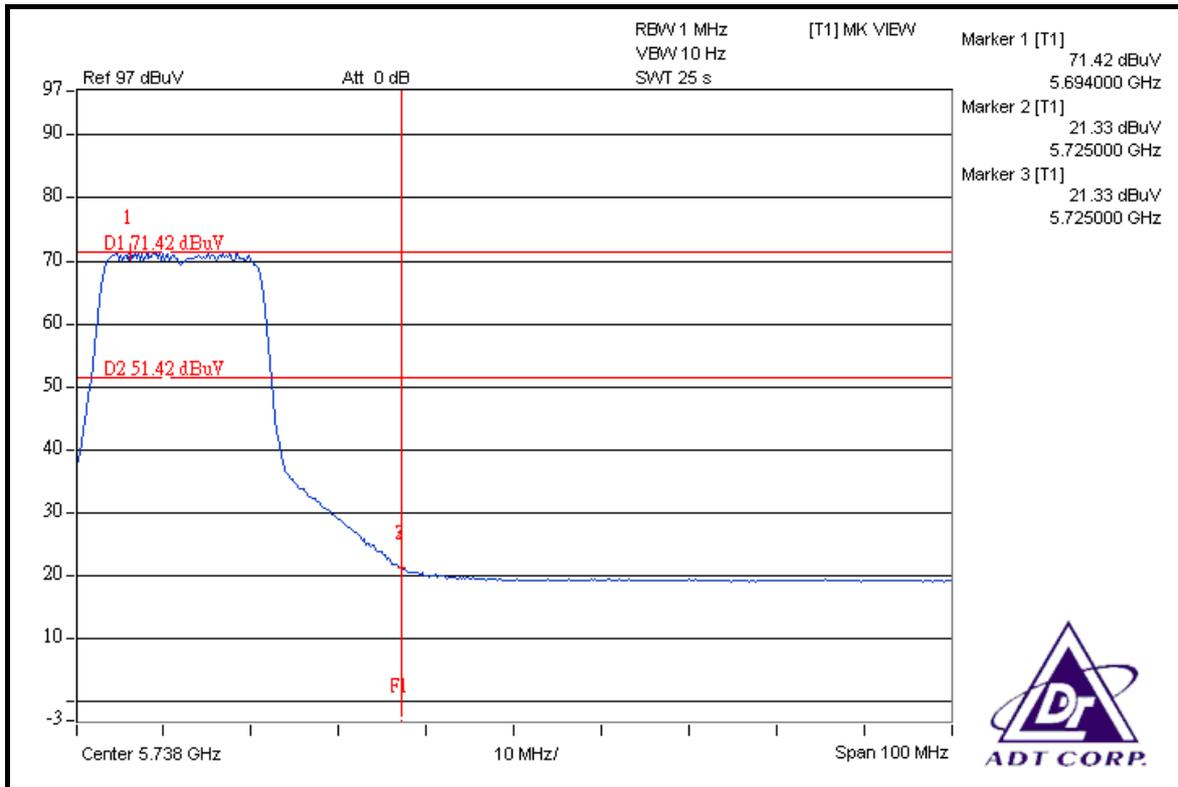
The band edge emission plot (5.470GHz) on the next page shows 45.73dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 100 is 112.85dBuV/m (Peak), so the maximum field strength in restrict band is $112.85 - 45.73 = 67.12$ dBuV/m which is under 68.3dBuV/m limit.

Channel 140 (5700MHz)

The band edge emission plot on the next second page shows 44.25dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 140 is 110.93dBuV/m (Peak), so the maximum field strength in restrict band is $110.93 - 44.25 = 66.68$ dBuV/m which is under 68.3dBuV/m limit.







FOR 5150-5350MHz BAND: DRAFT 802.11n (40MHz) OFDM MODULATION

TEST MODE A

Channel 38 (5190MHz)

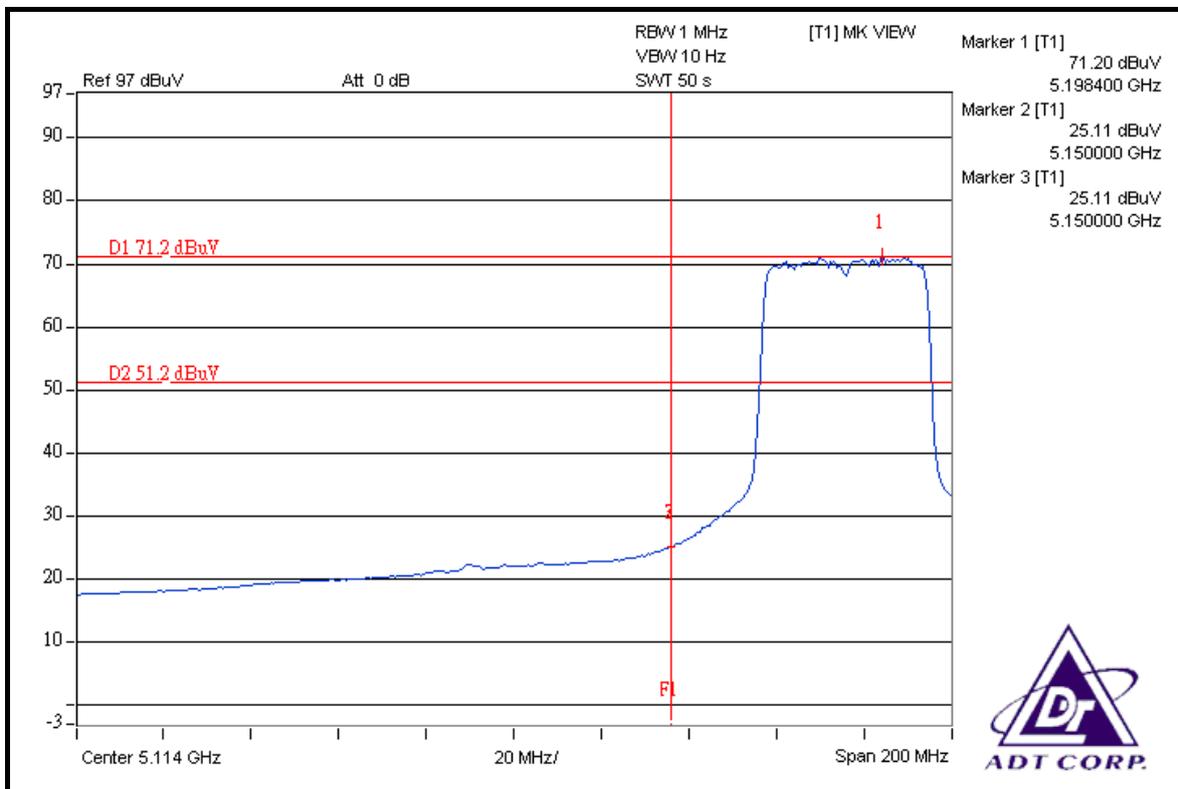
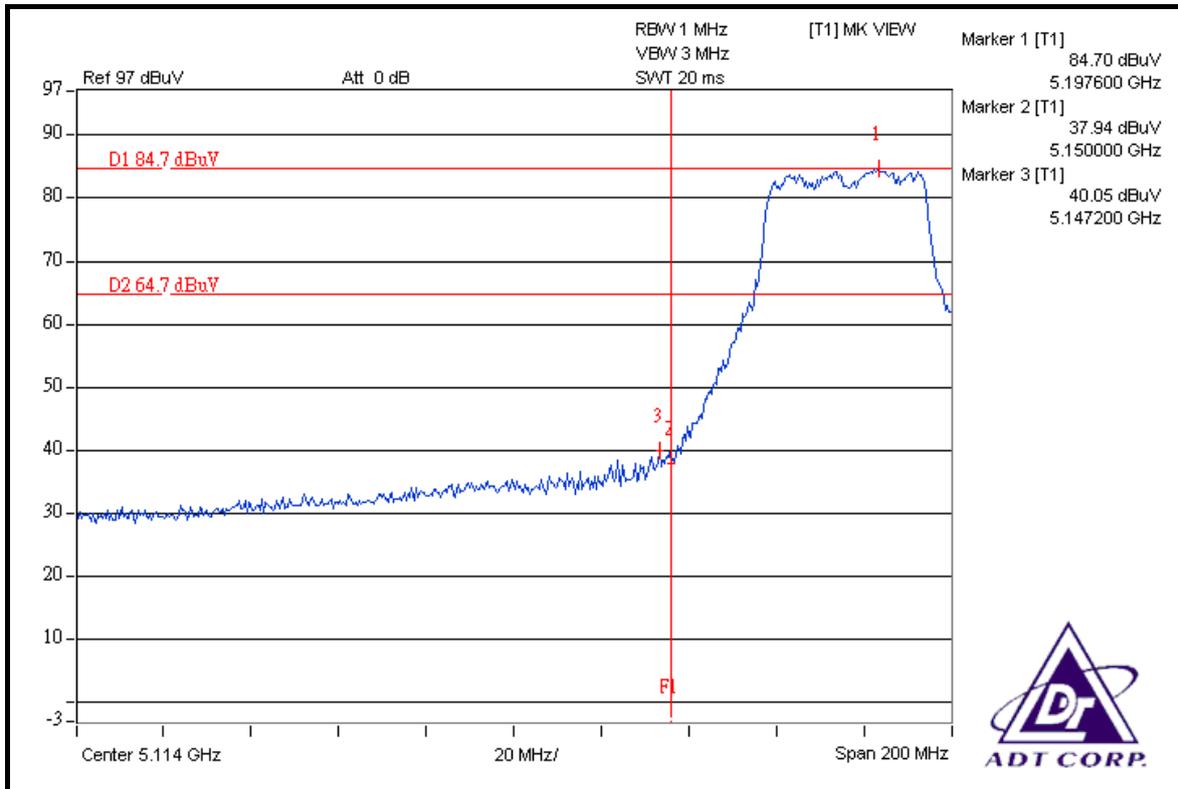
The band edge emission plot on the next page shows 44.65dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 38 is 109.13dBuV/m (Peak), so the maximum field strength in restrict band is $109.13 - 44.65 = 64.48$ dBuV/m which is under 74dBuV/m limit.

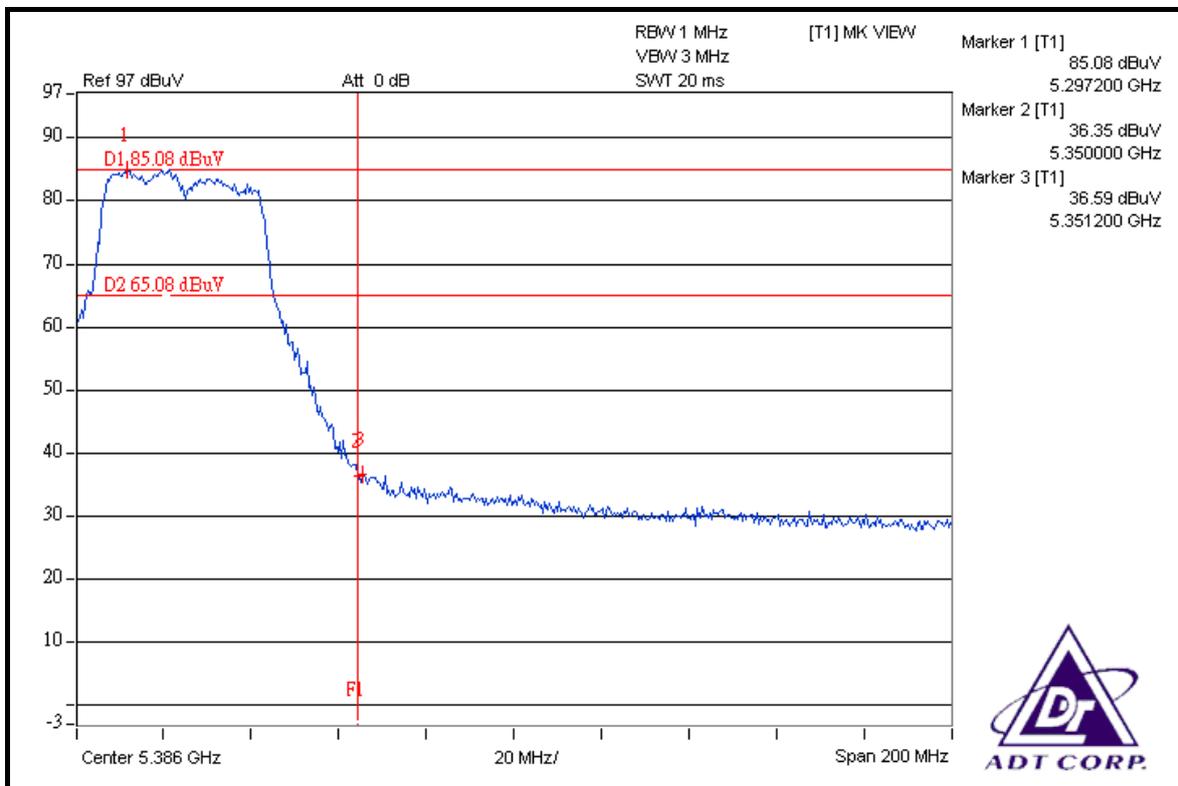
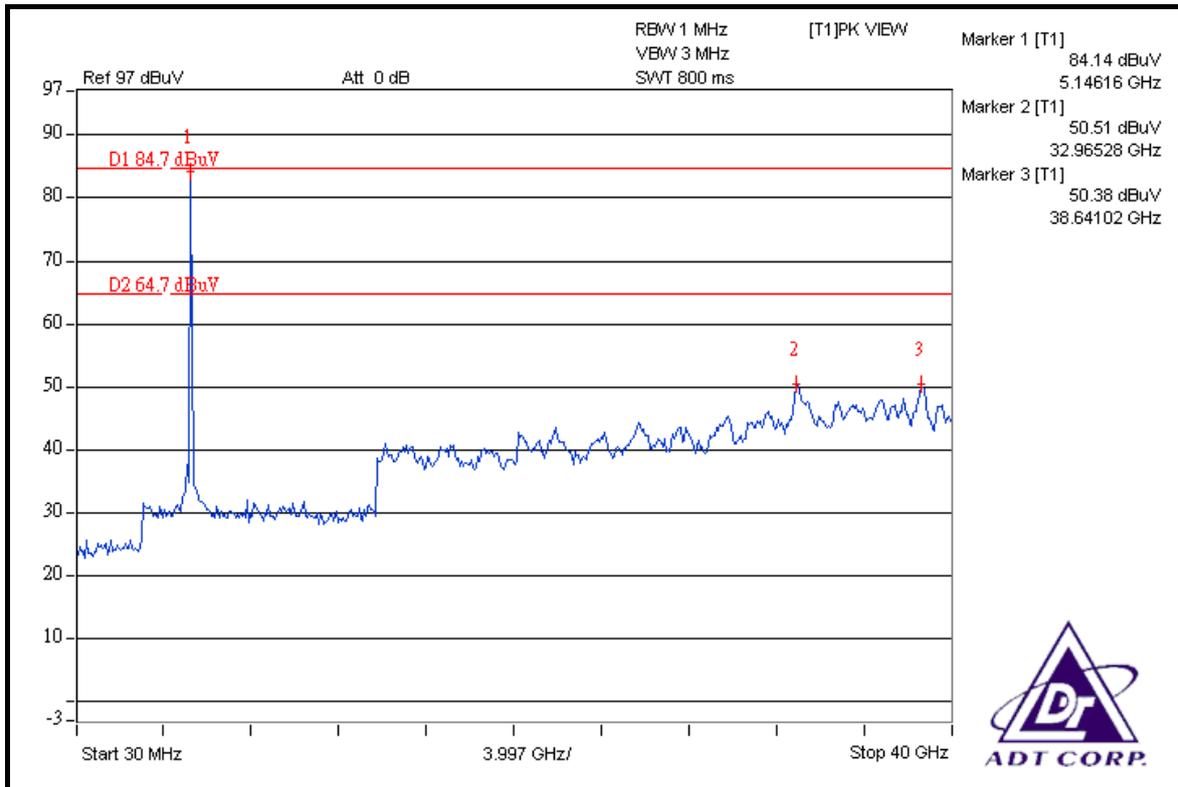
The band edge emission plot on the next page shows 46.09dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 38 is 98.85dBuV/m (Average), so the maximum field strength in restrict band is $98.85 - 46.09 = 52.76$ dBuV/m which is under 54dBuV/m limit.

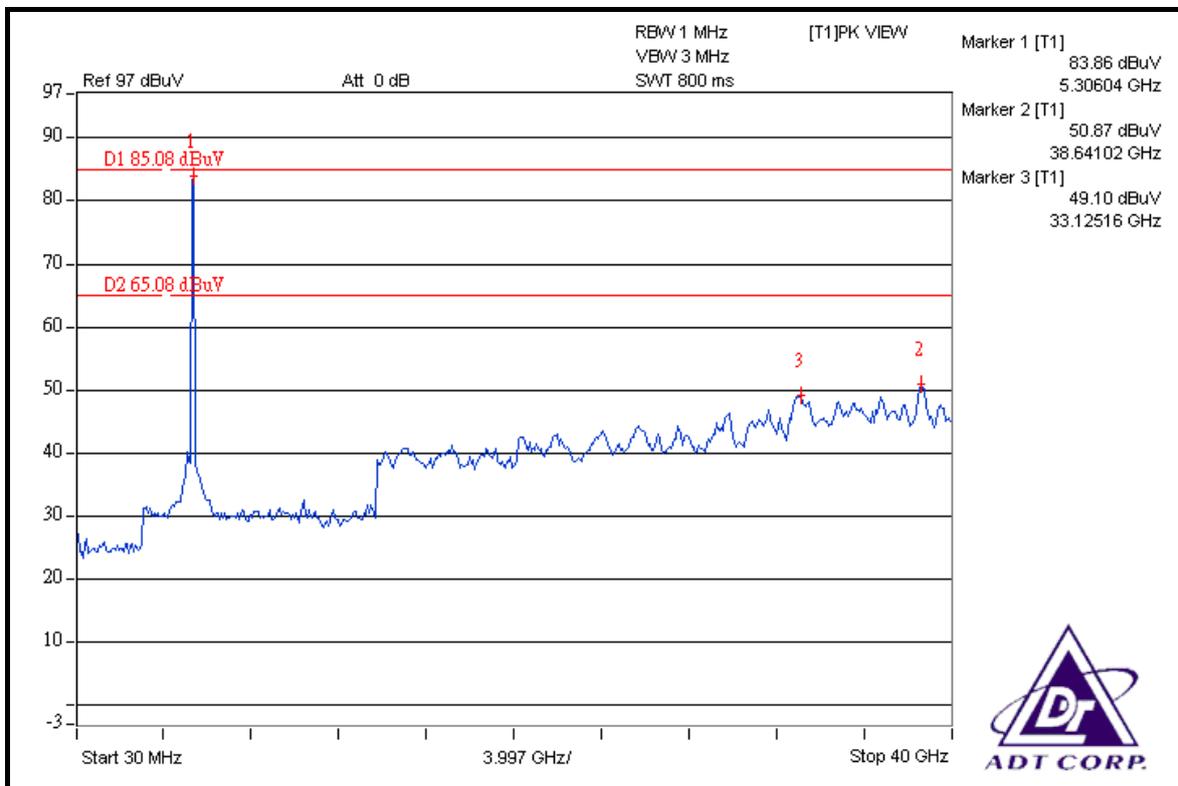
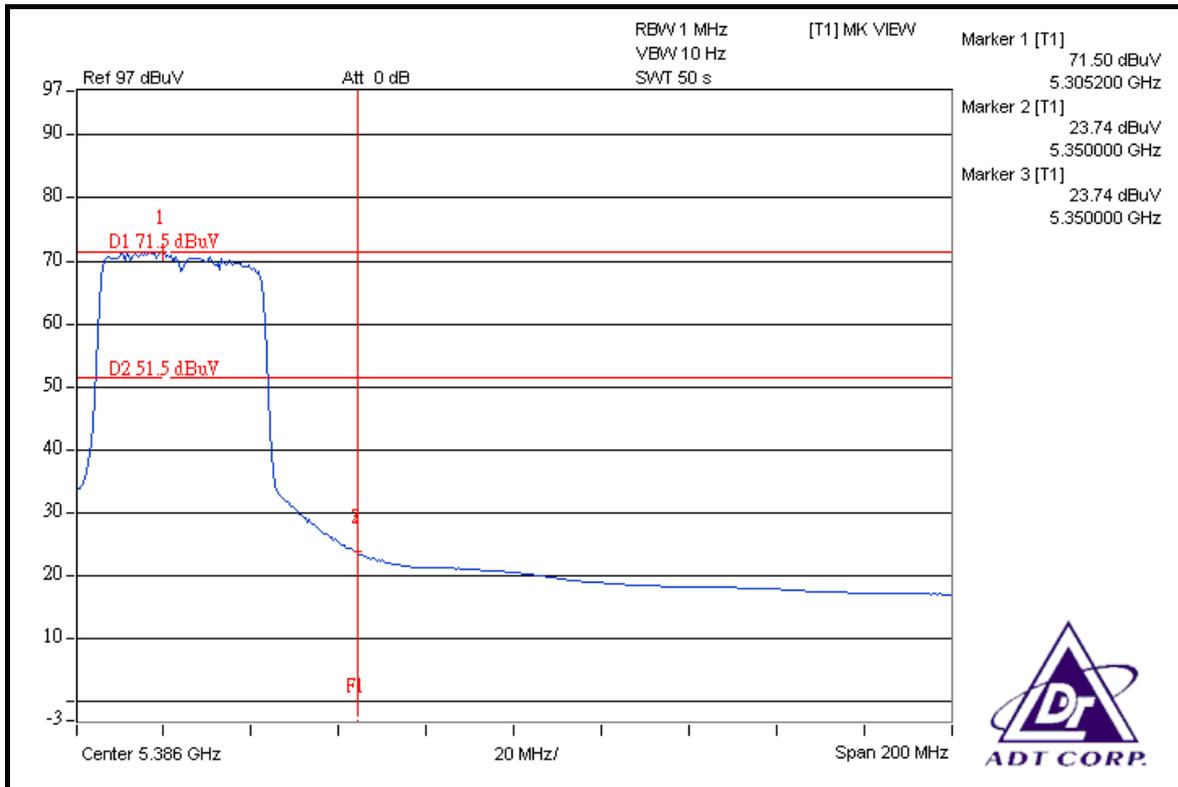
Channel 62 (5310MHz)

The band edge emission plot on the next second page shows 48.49dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 62 is 109.10dBuV/m (Peak), so the maximum field strength in restrict band is $109.10 - 48.49 = 60.61$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 47.76dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 62 is 98.76dBuV/m (Average), so the maximum field strength in restrict band is $98.76 - 47.76 = 51.00$ dBuV/m which is under 54dBuV/m limit.







TEST MODE B

Channel 38 (5190MHz)

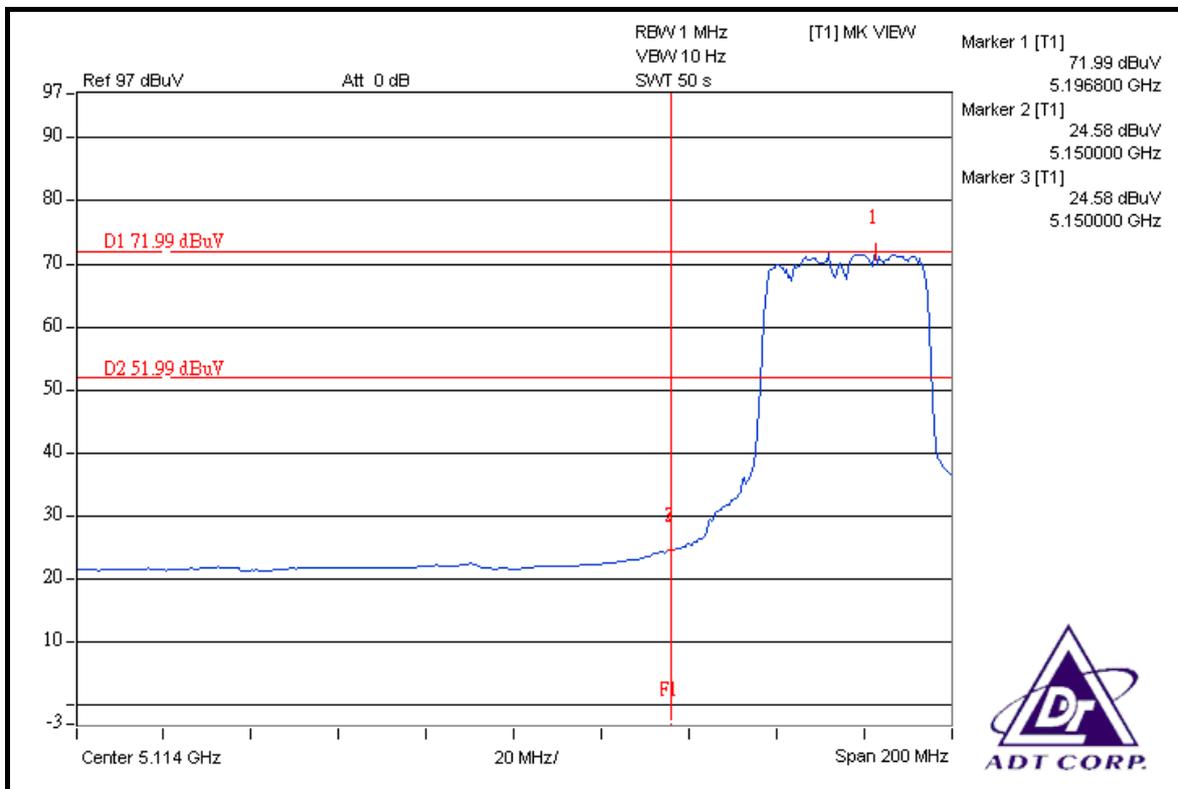
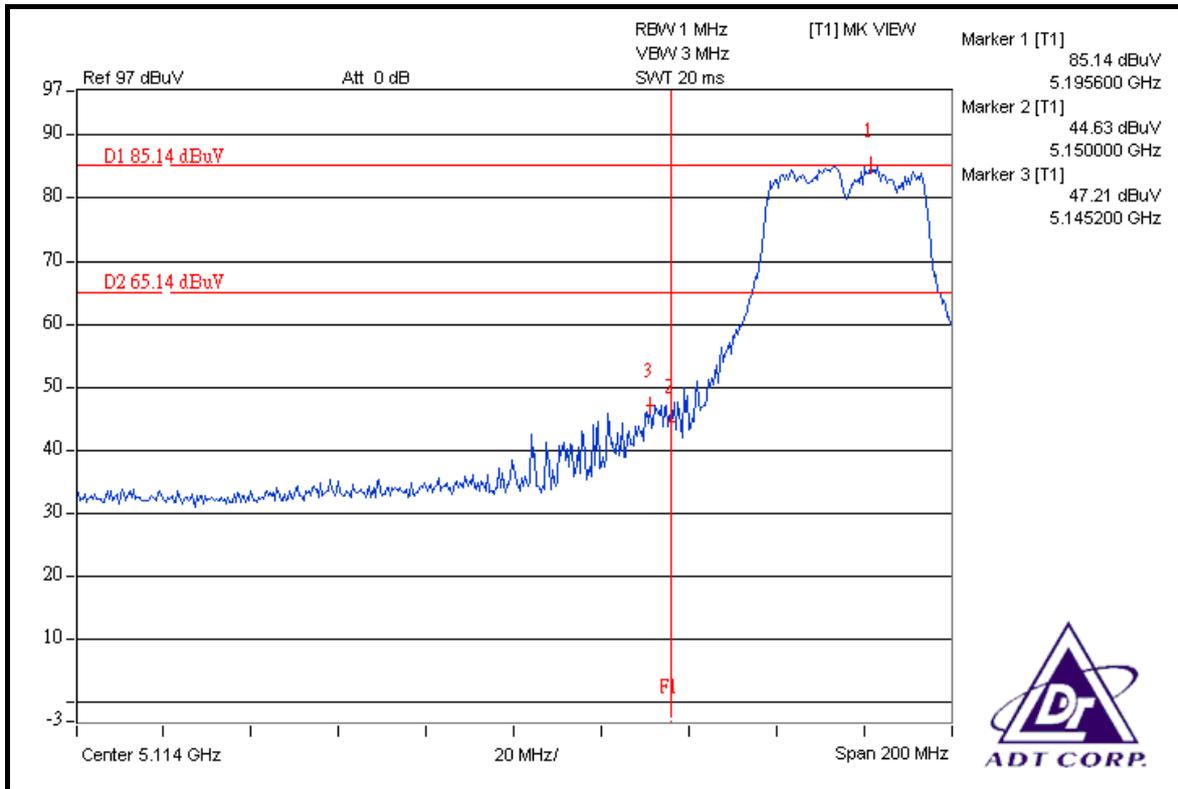
The band edge emission plot on the next page shows 37.93dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 38 is 110.40dBuV/m (Peak), so the maximum field strength in restrict band is $110.40 - 37.93 = 72.47$ dBuV/m which is under 74dBuV/m limit.

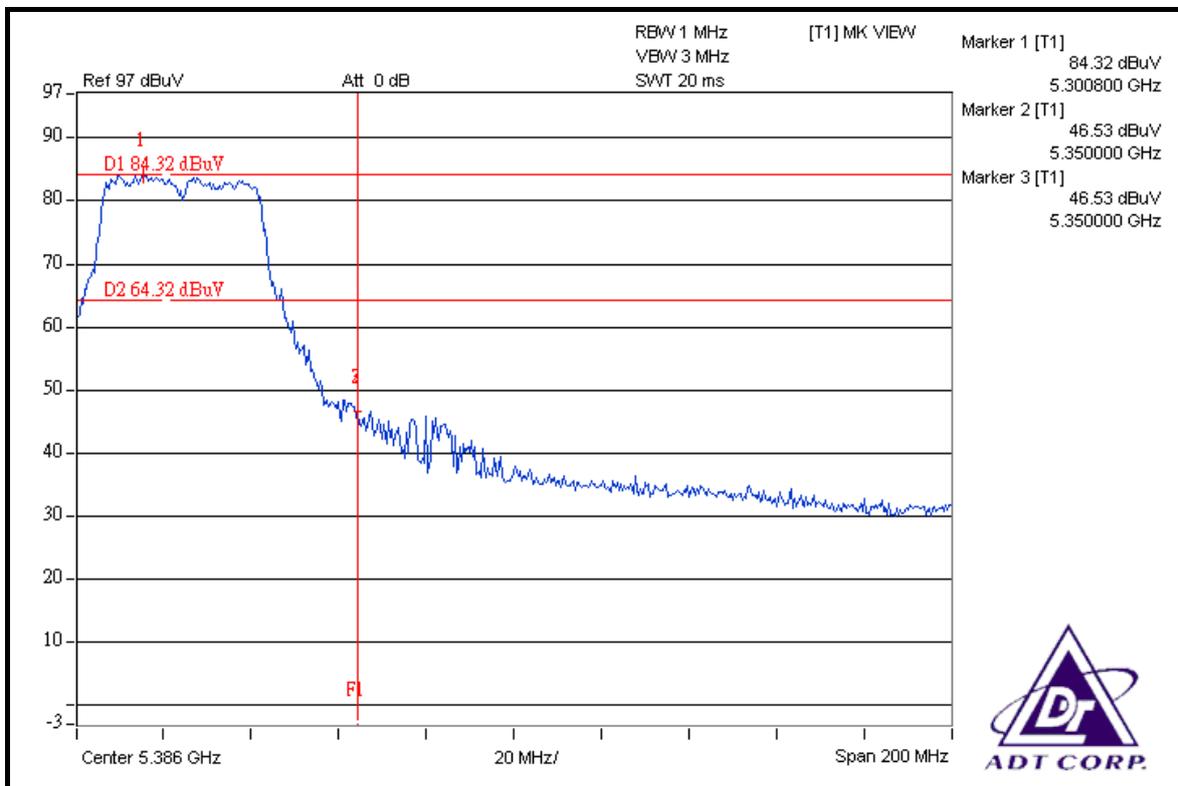
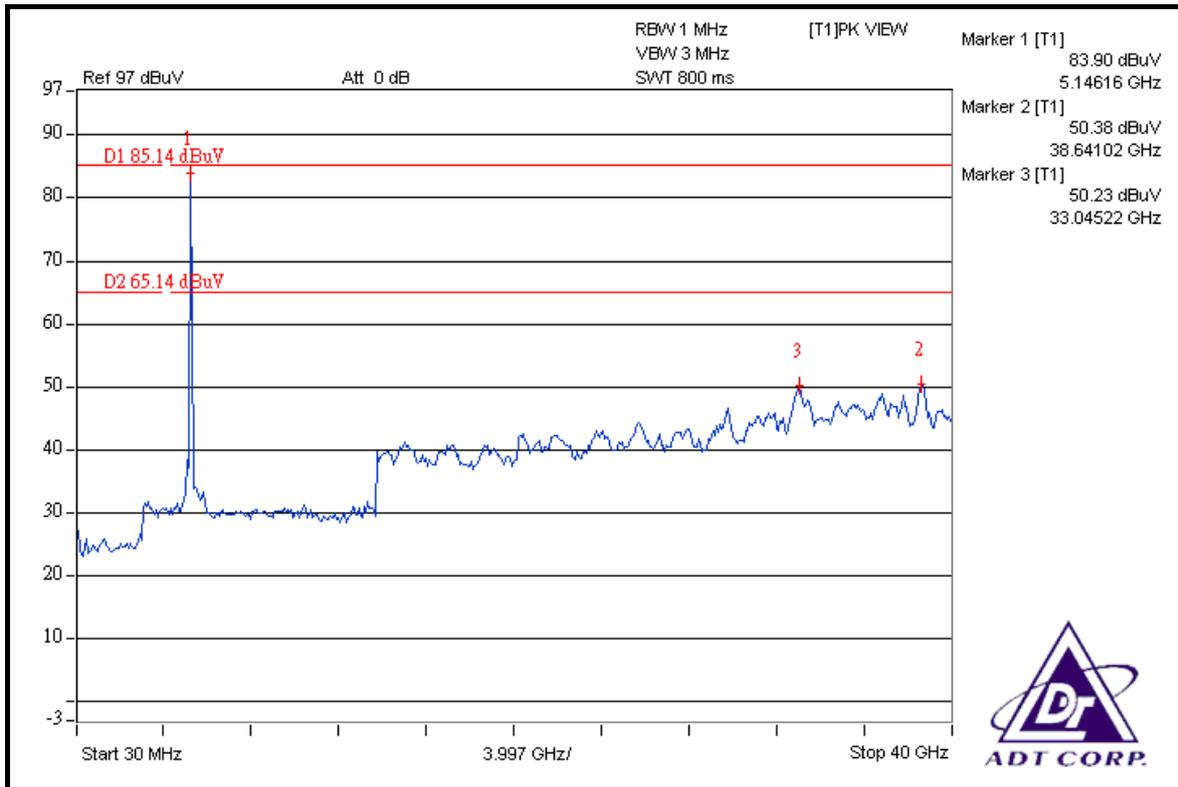
The band edge emission plot on the next page shows 47.41dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 38 is 100.06dBuV/m (Average), so the maximum field strength in restrict band is $100.06 - 47.41 = 52.65$ dBuV/m which is under 54dBuV/m limit.

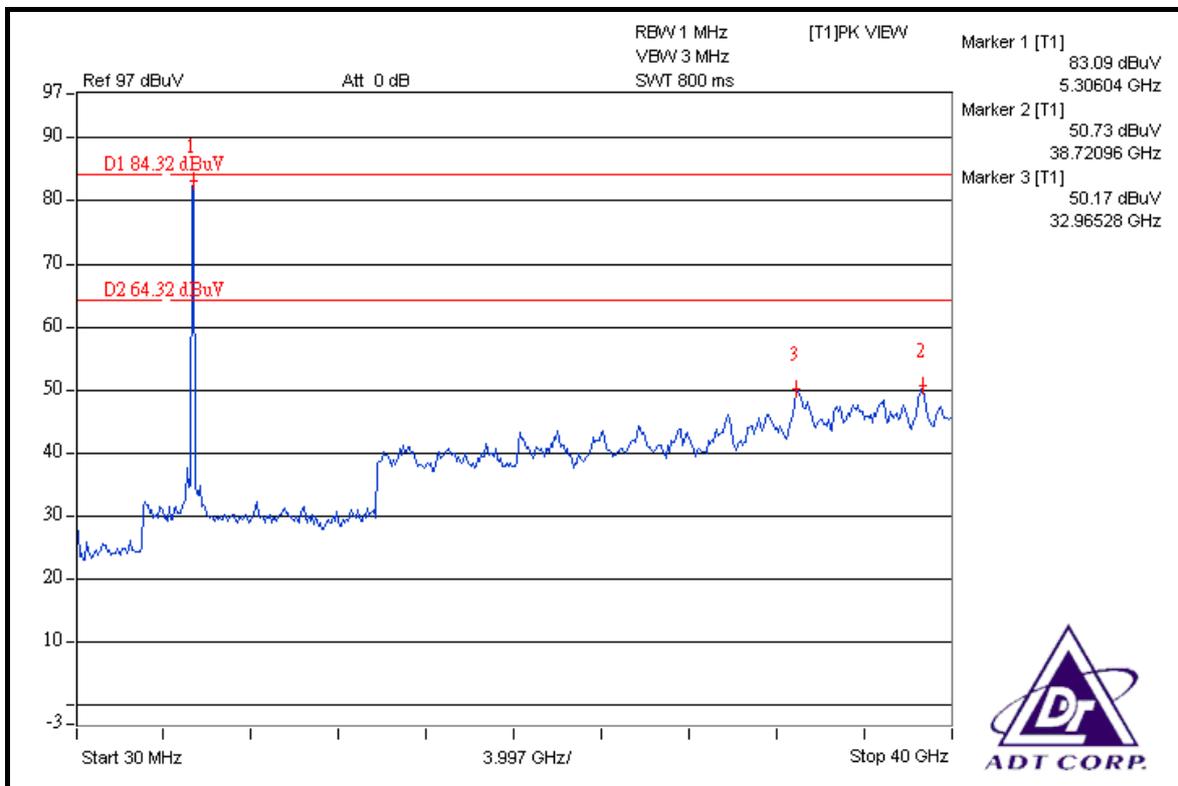
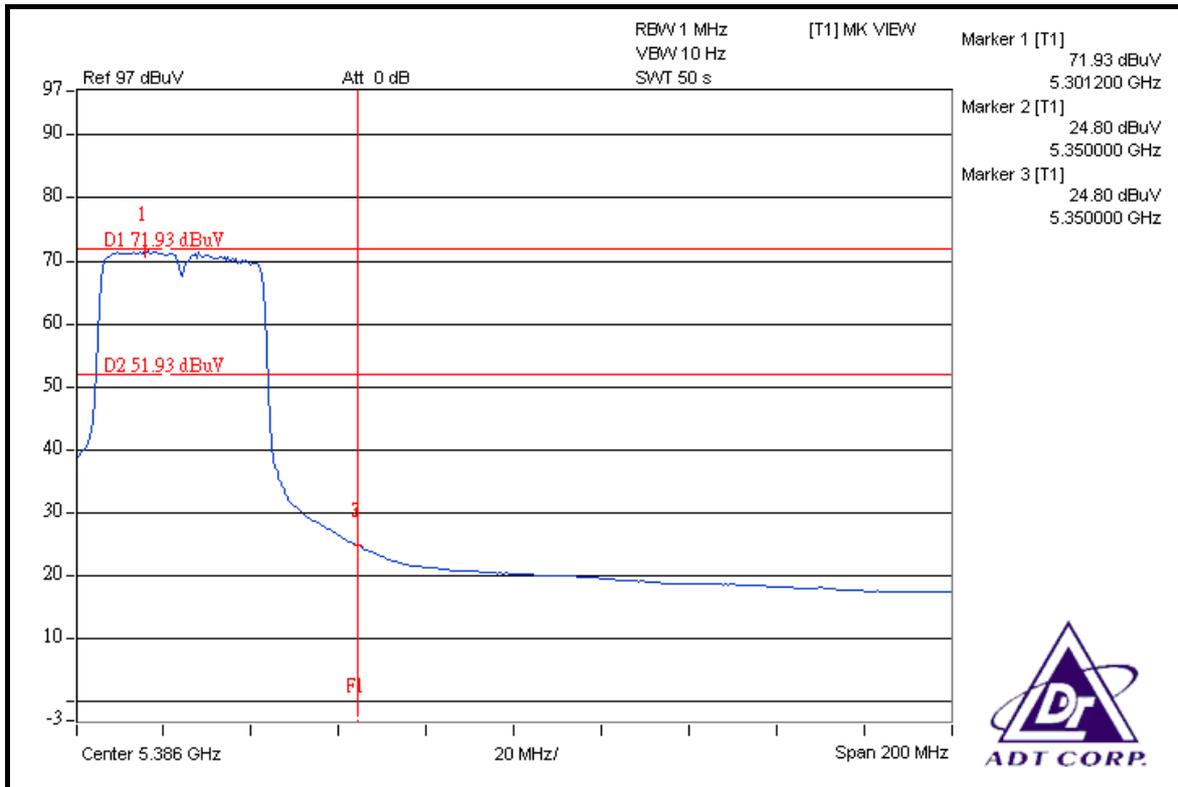
Channel 62 (5310MHz)

The band edge emission plot on the next second page shows 37.79dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 62 is 110.18dBuV/m (Peak), so the maximum field strength in restrict band is $110.18 - 37.79 = 72.39$ dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on the next third page shows 47.13dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 62 is 99.79dBuV/m (Average), so the maximum field strength in restrict band is $99.79 - 47.13 = 52.66$ dBuV/m which is under 54dBuV/m limit.







FOR 5470-5725MHz BAND: DRAFT 802.11n (40MHz) OFDM MODULATION

TEST MODE A

Channel 102 (5510MHz)

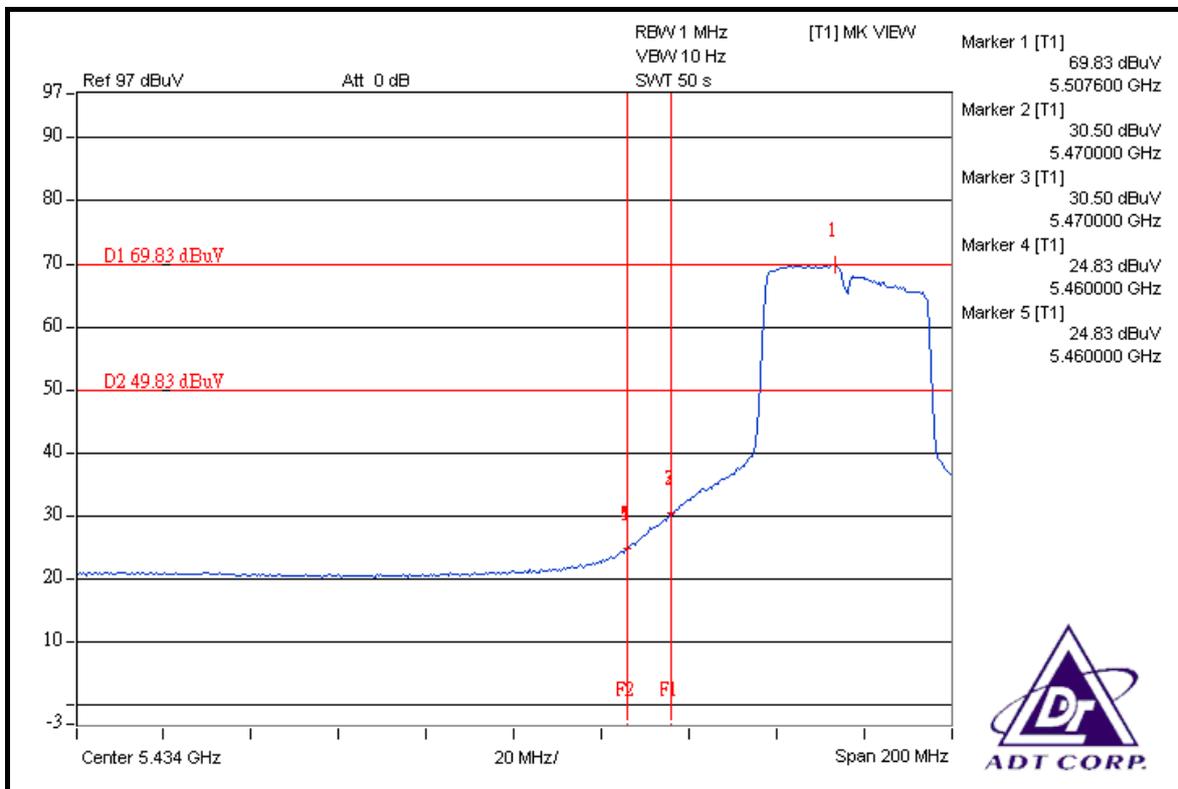
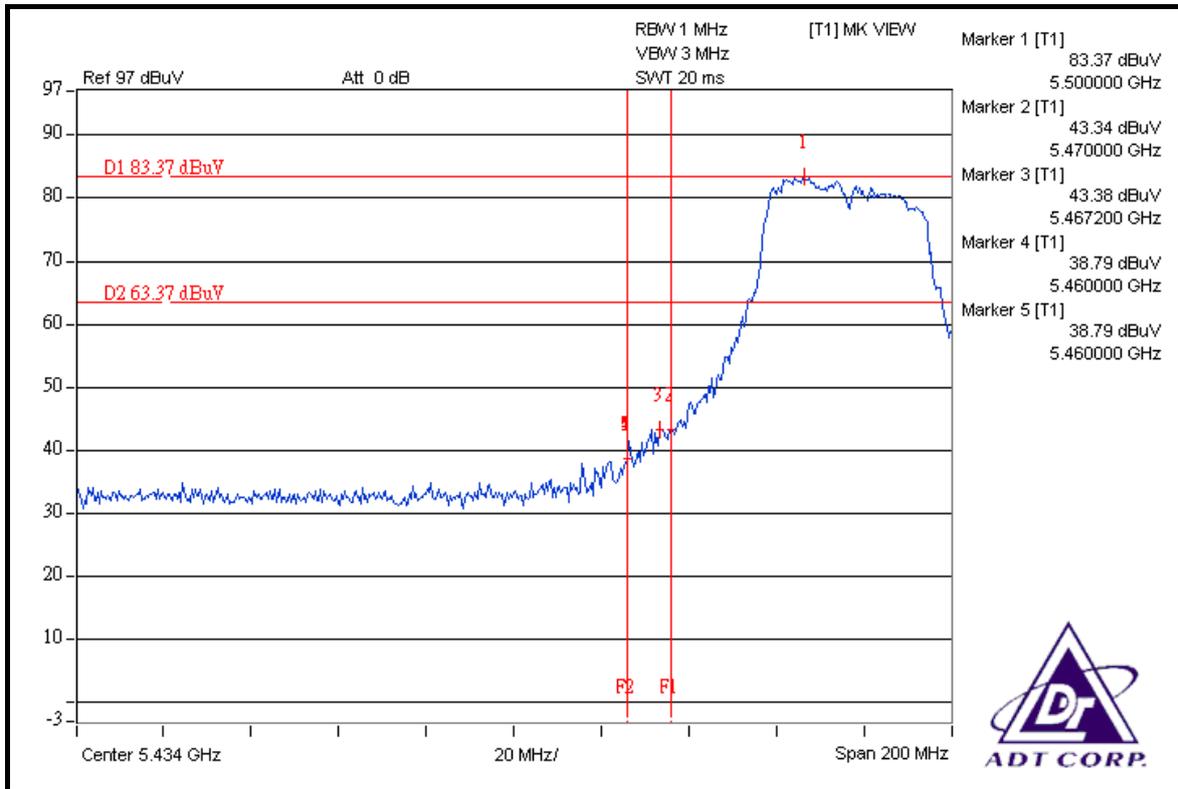
The band edge emission plot (5.460GHz) on the next page shows 44.58dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 102 is 106.37dBuV/m (Peak), so the maximum field strength in restrict band is $106.37 - 44.58 = 61.79$ dBuV/m which is under 74dBuV/m limit.

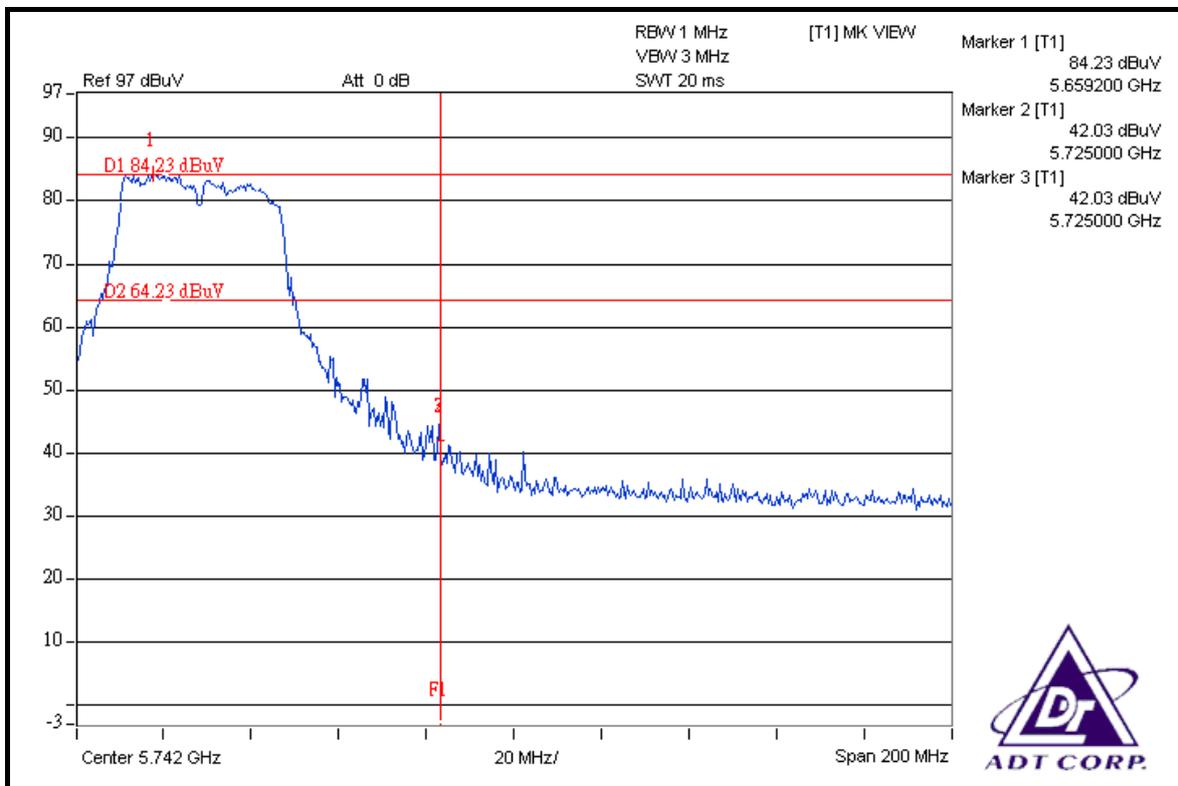
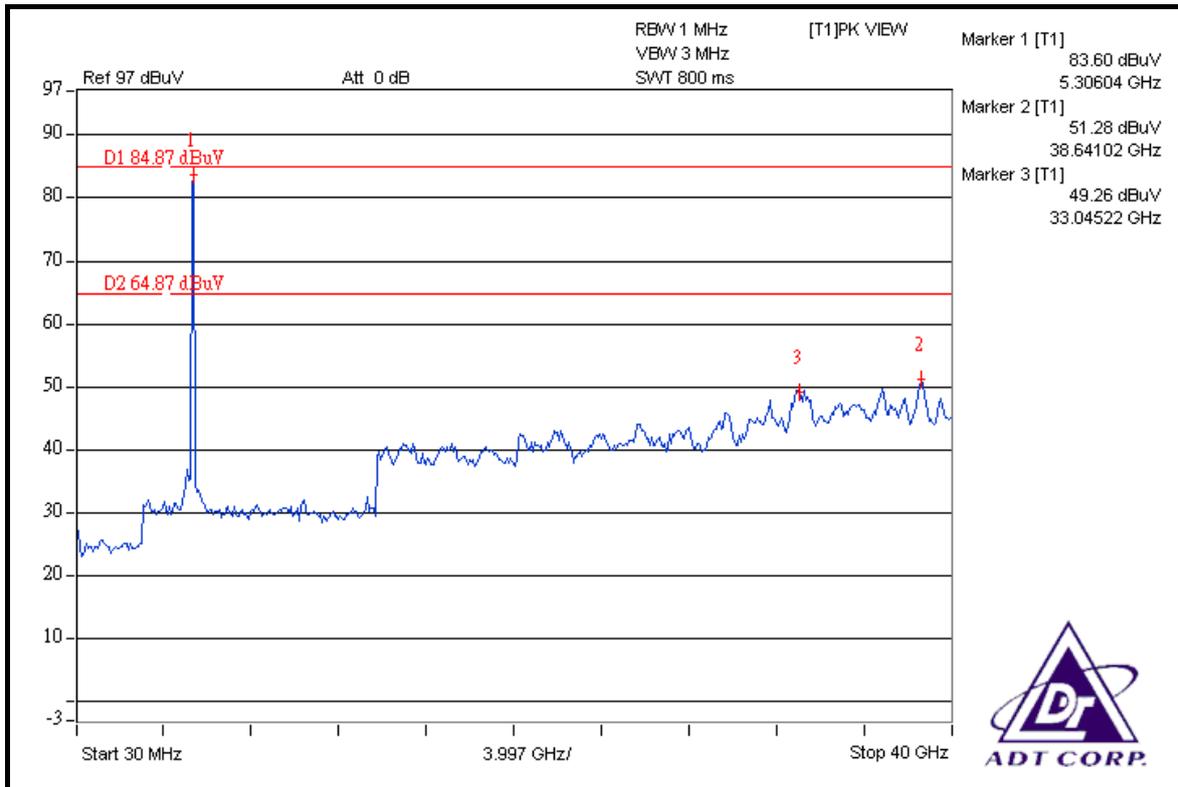
The band edge emission plot (5.460GHz) on the next page shows 45.00dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 102 is 95.97dBuV/m (Average), so the maximum field strength in restrict band is $95.97 - 45.00 = 50.97$ dBuV/m which is under 54dBuV/m limit.

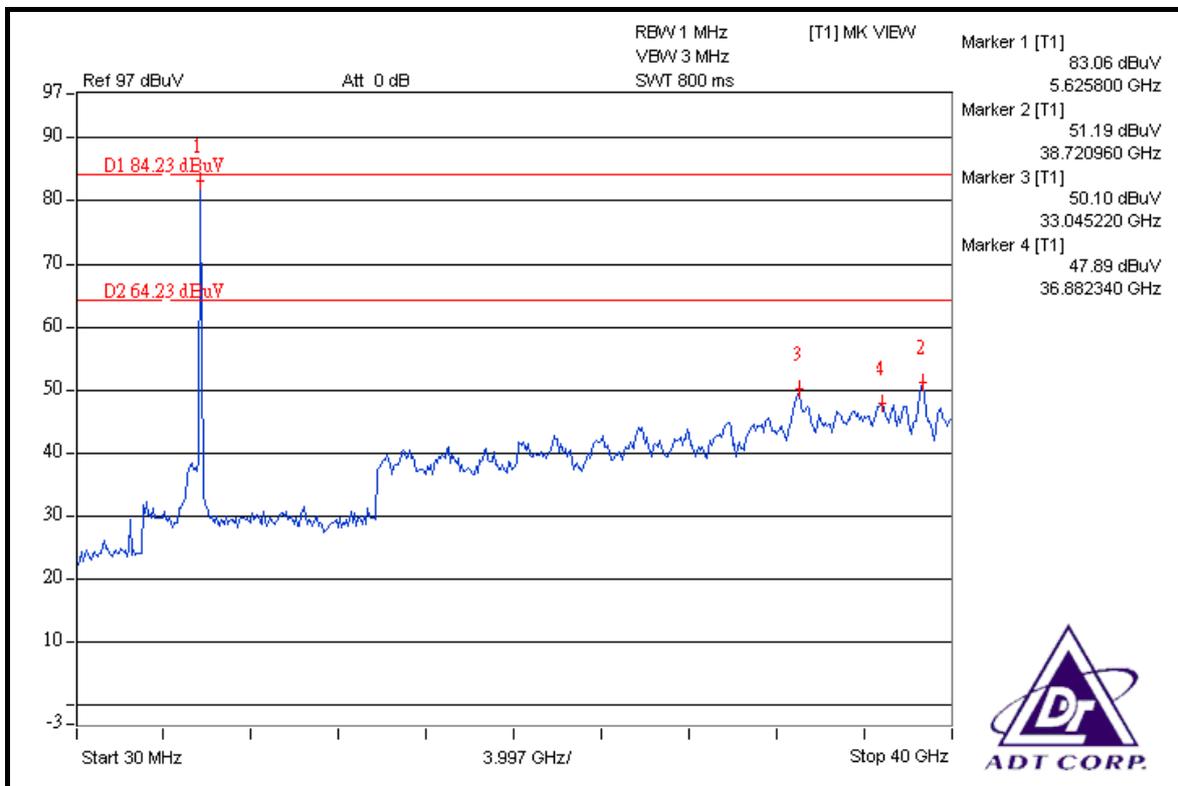
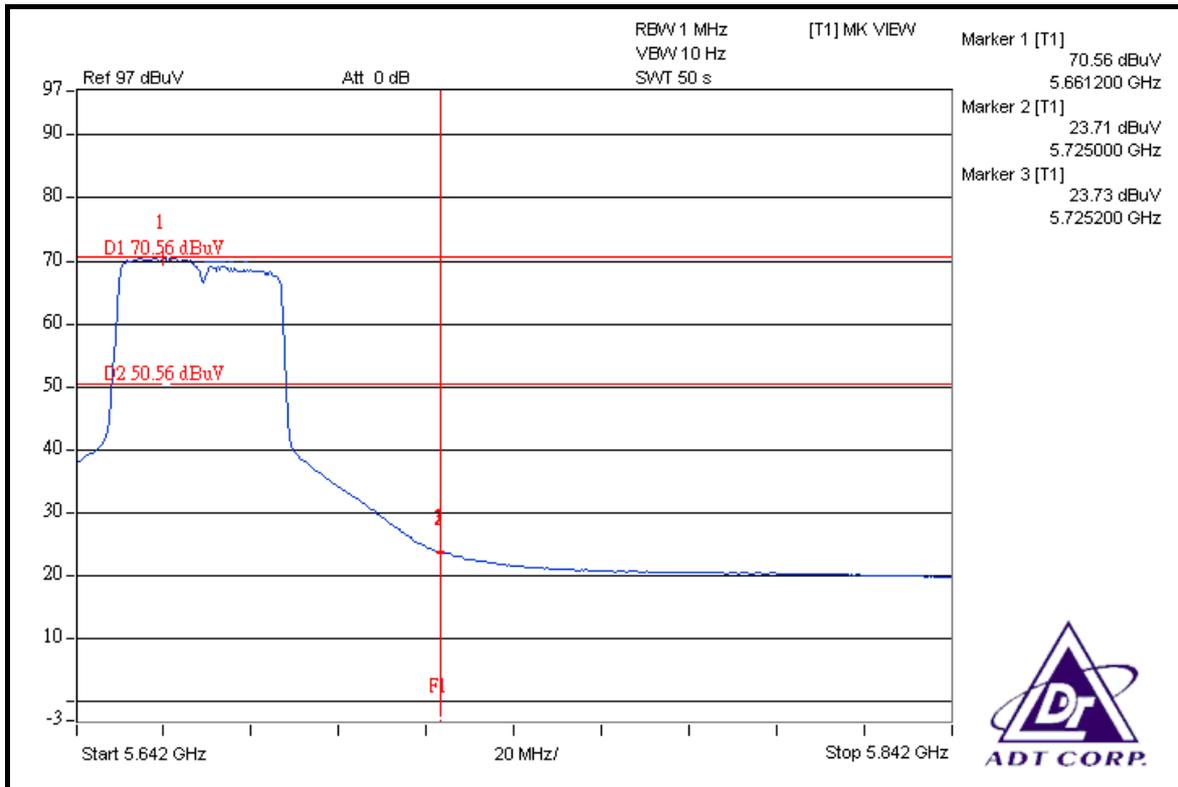
The band edge emission plot (5.470GHz) on the next page shows 39.99dBc between carrier maximum power and local maximum emission out of band emission. The emission of carrier strength list in the test result of channel 102 is 106.37dBuV/m (Peak), so the maximum field strength out of band emission is $106.37 - 39.99 = 66.38$ dBuV/m which is under 68.3dBuV/m limit.

Channel 134 (5670MHz)

The band edge emission plot on the next second page shows 42.20dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 134 is 107.96dBuV/m (Peak), so the maximum field strength in restrict band is $107.96 - 42.20 = 65.76$ dBuV/m which is under 68.3dBuV/m limit.







TEST MODE B

Channel 102 (5510MHz)

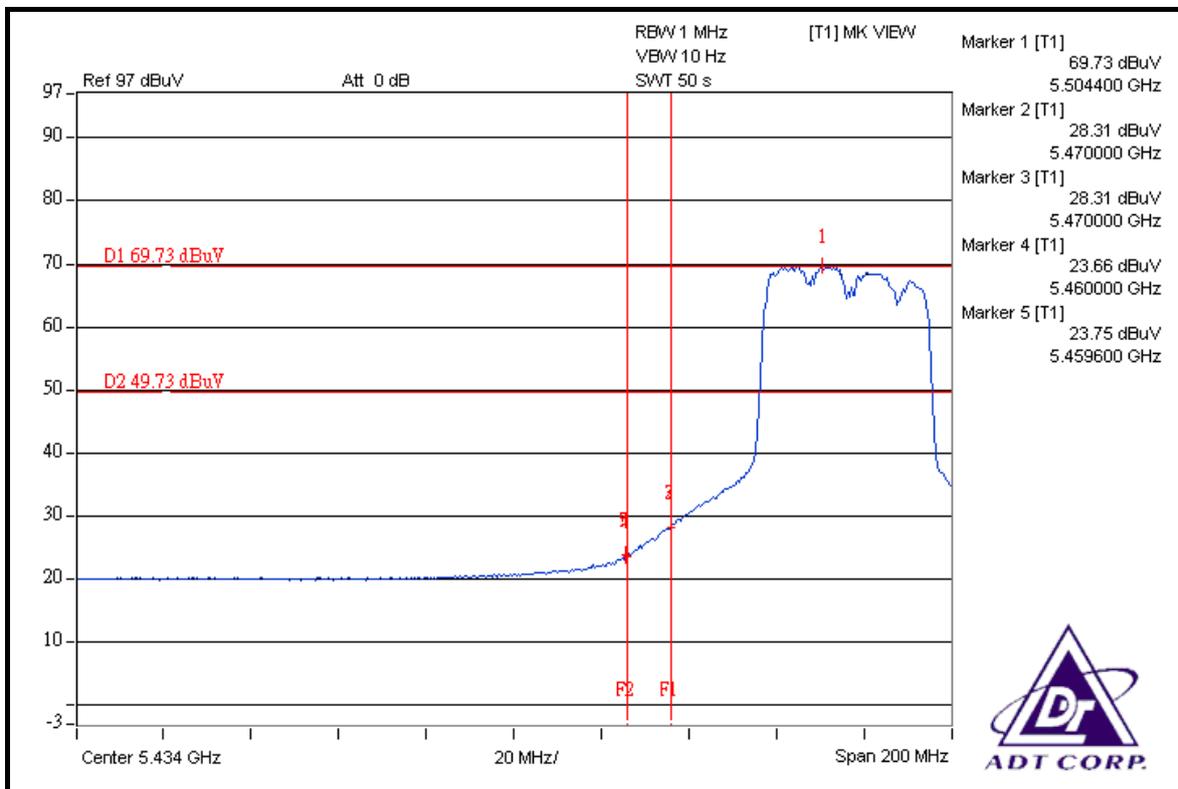
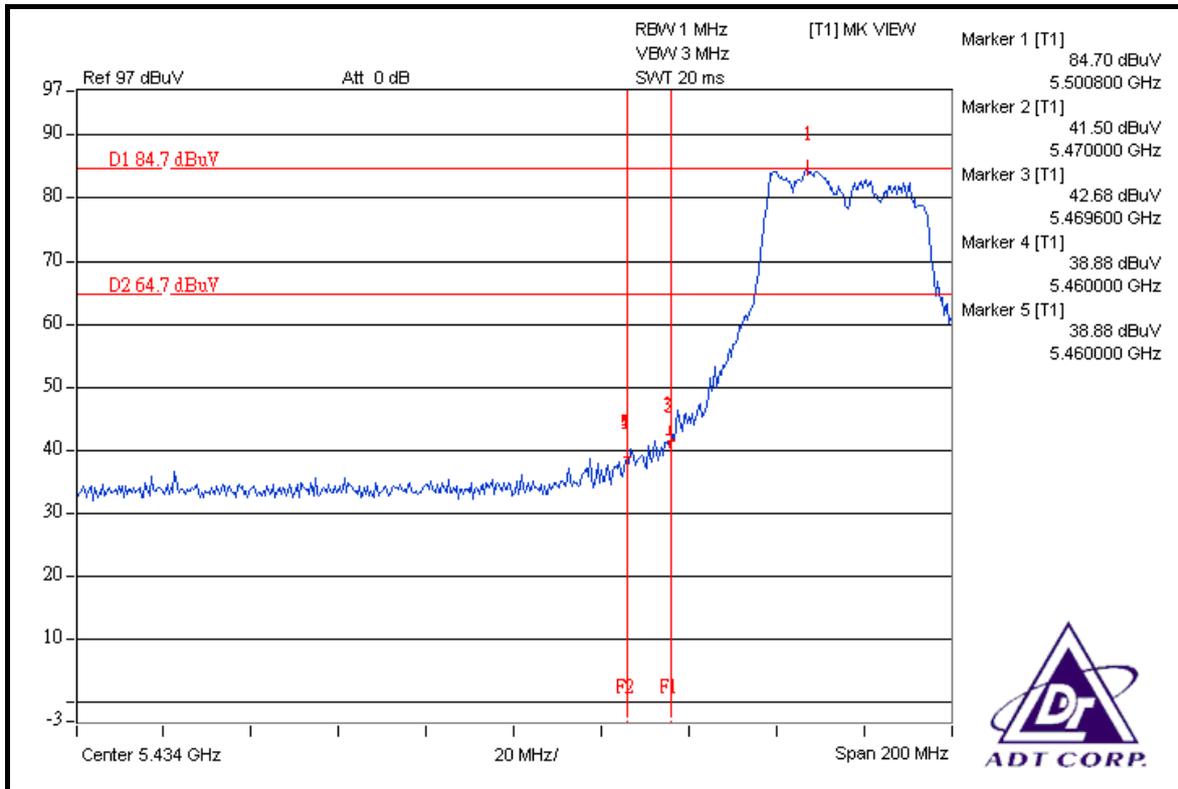
The band edge emission plot (5.460GHz) on the next page shows 45.82dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 102 is 109.03dBuV/m (Peak), so the maximum field strength in restrict band is $109.03 - 45.82 = 63.21$ dBuV/m which is under 74dBuV/m limit.

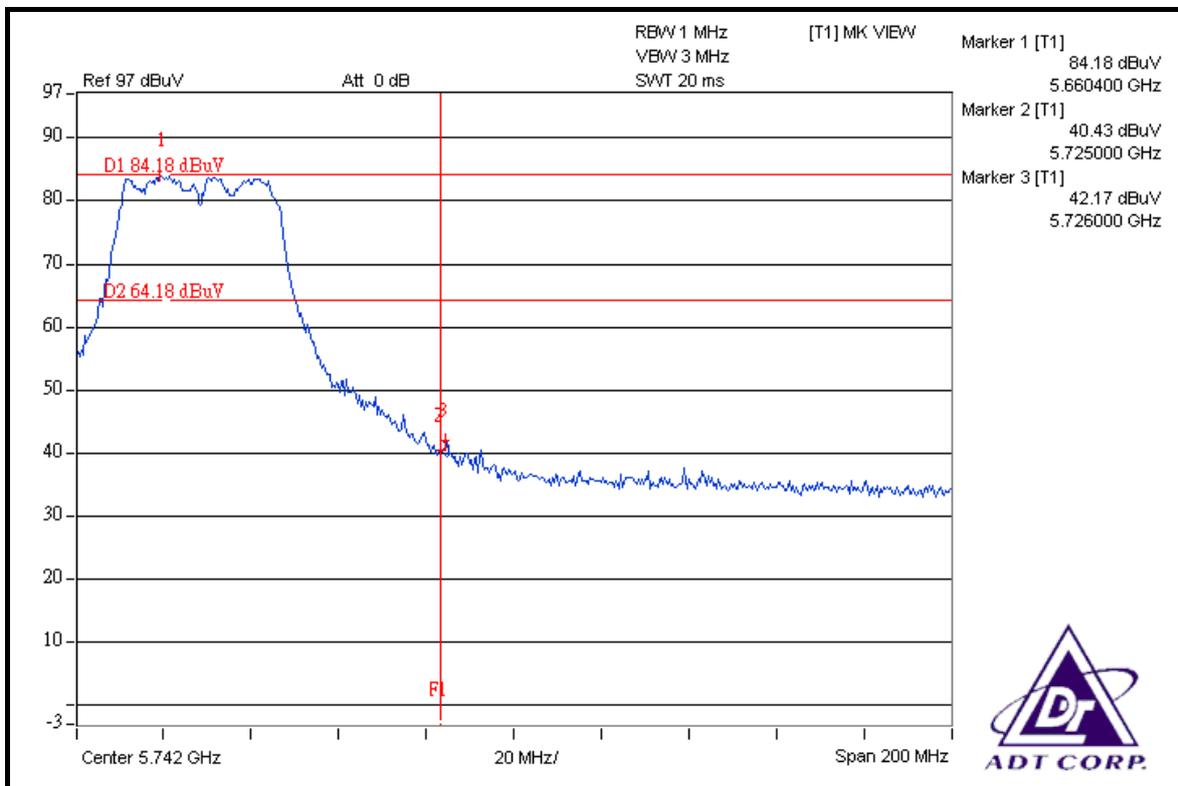
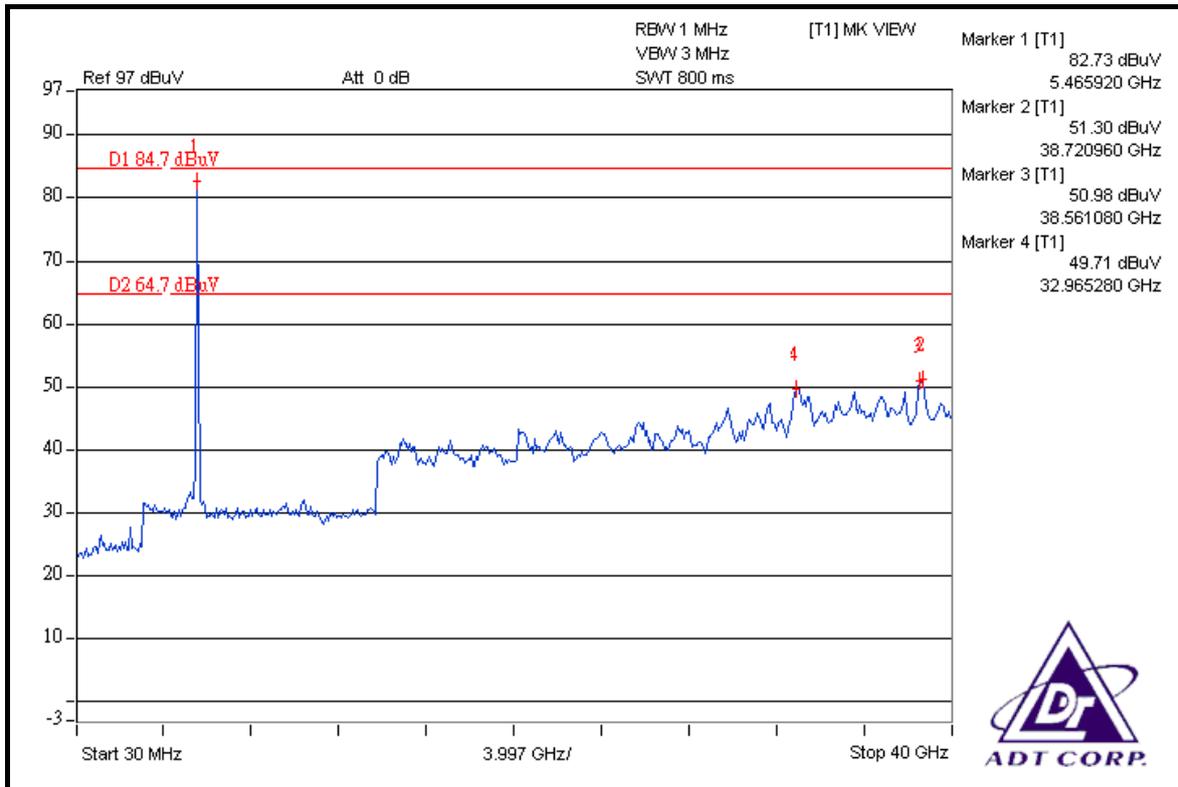
The band edge emission plot (5.460GHz) on the next page shows 45.98dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 102 is 98.61dBuV/m (Average), so the maximum field strength in restrict band is $98.61 - 45.98 = 52.63$ dBuV/m which is under 54dBuV/m limit.

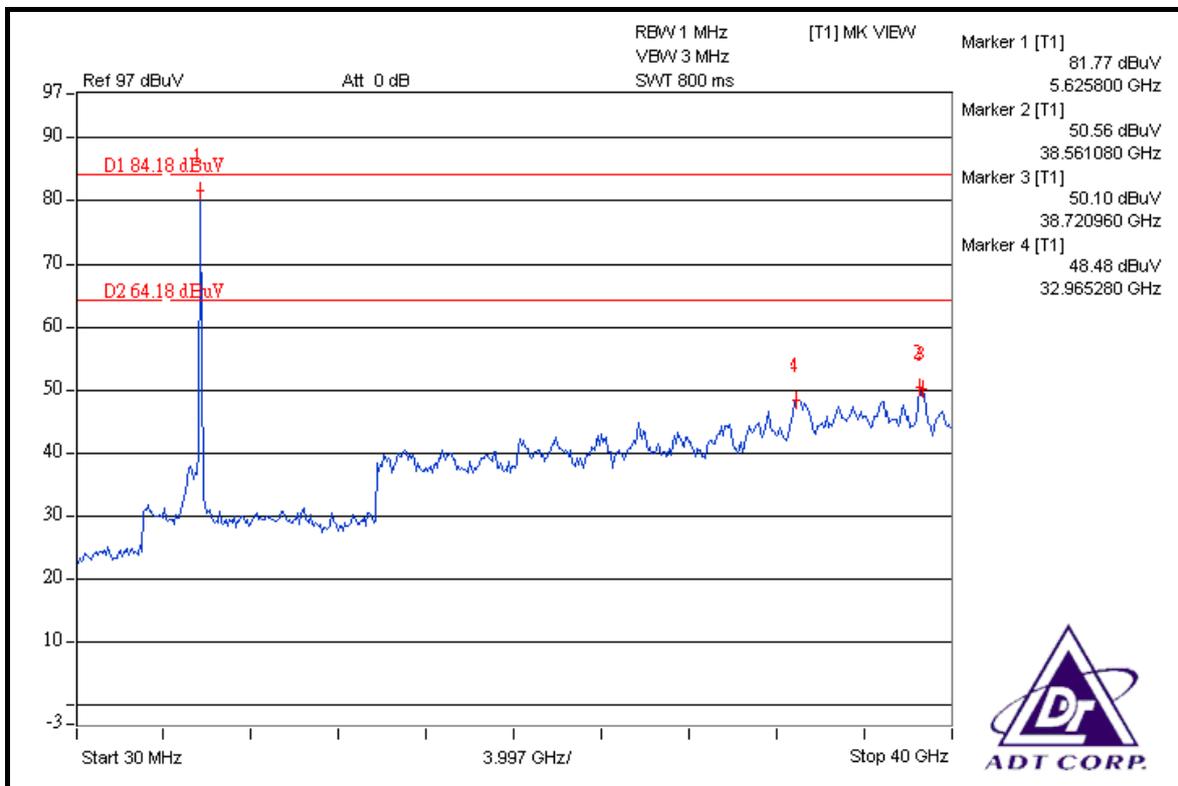
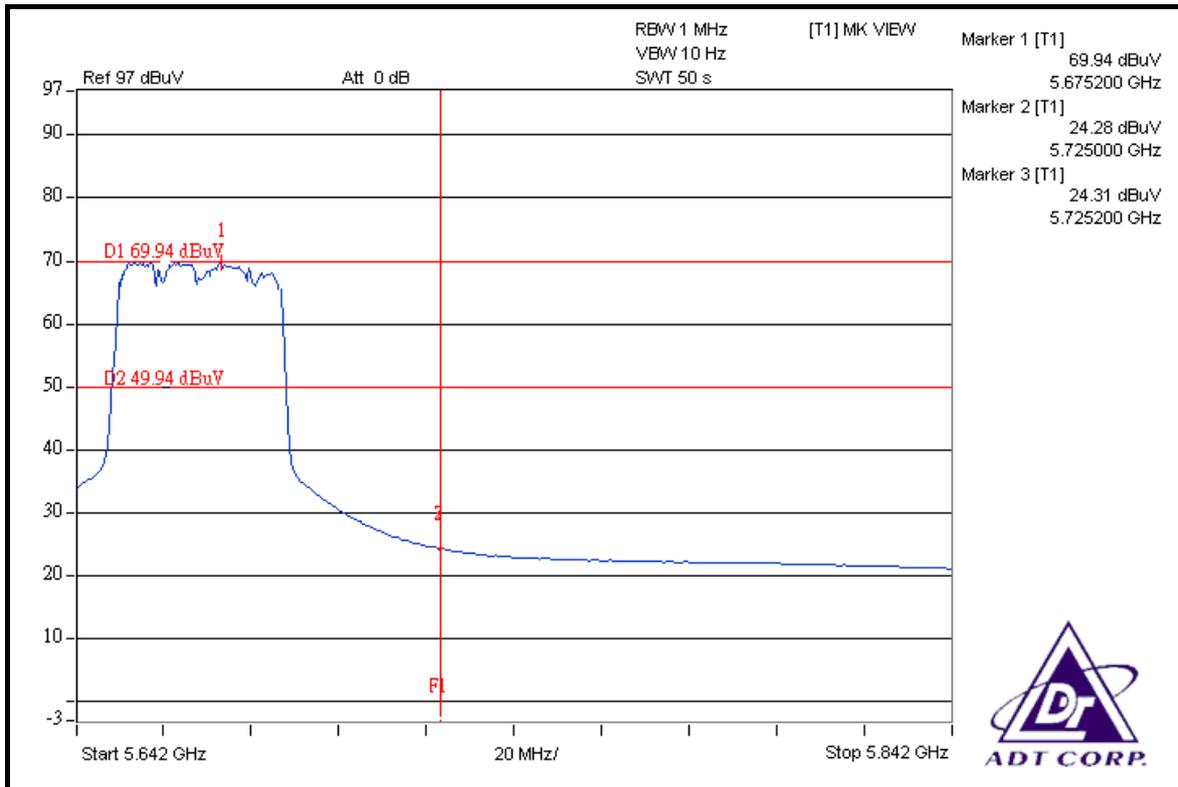
The band edge emission plot (5.470GHz) on the next page shows 42.02dBc between carrier maximum power and local maximum emission out of band emission. The emission of carrier strength list in the test result of channel 102 is 109.03dBuV/m (Peak), so the maximum field strength out of band emission is $109.03 - 42.02 = 67.01$ dBuV/m which is under 68.3dBuV/m limit.

Channel 134 (5670MHz)

The band edge emission plot on the next second page shows 42.01dBc between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 134 is 109.01dBuV/m (Peak), so the maximum field strength in restrict band is $109.01 - 42.01 = 67.00$ dBuV/m which is under 68.3dBuV/m limit.









4.8 ANTENNA REQUIREMENT

4.8.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407(a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.8.2 ANTENNA CONNECTED CONSTRUCTION

The antennas used in this product are PIFA antenna with UFL connector and Dipole antenna with R-SMA connector. The maximum Gain of the antenna is 4.33dBi.



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA	FCC, UL
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA(MOU)
Russia	CERTIS(MOU)

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:
www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:
Tel: 886-2-26052180
Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

The address and road map of all our labs can be found in our web site also.

7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

---END---