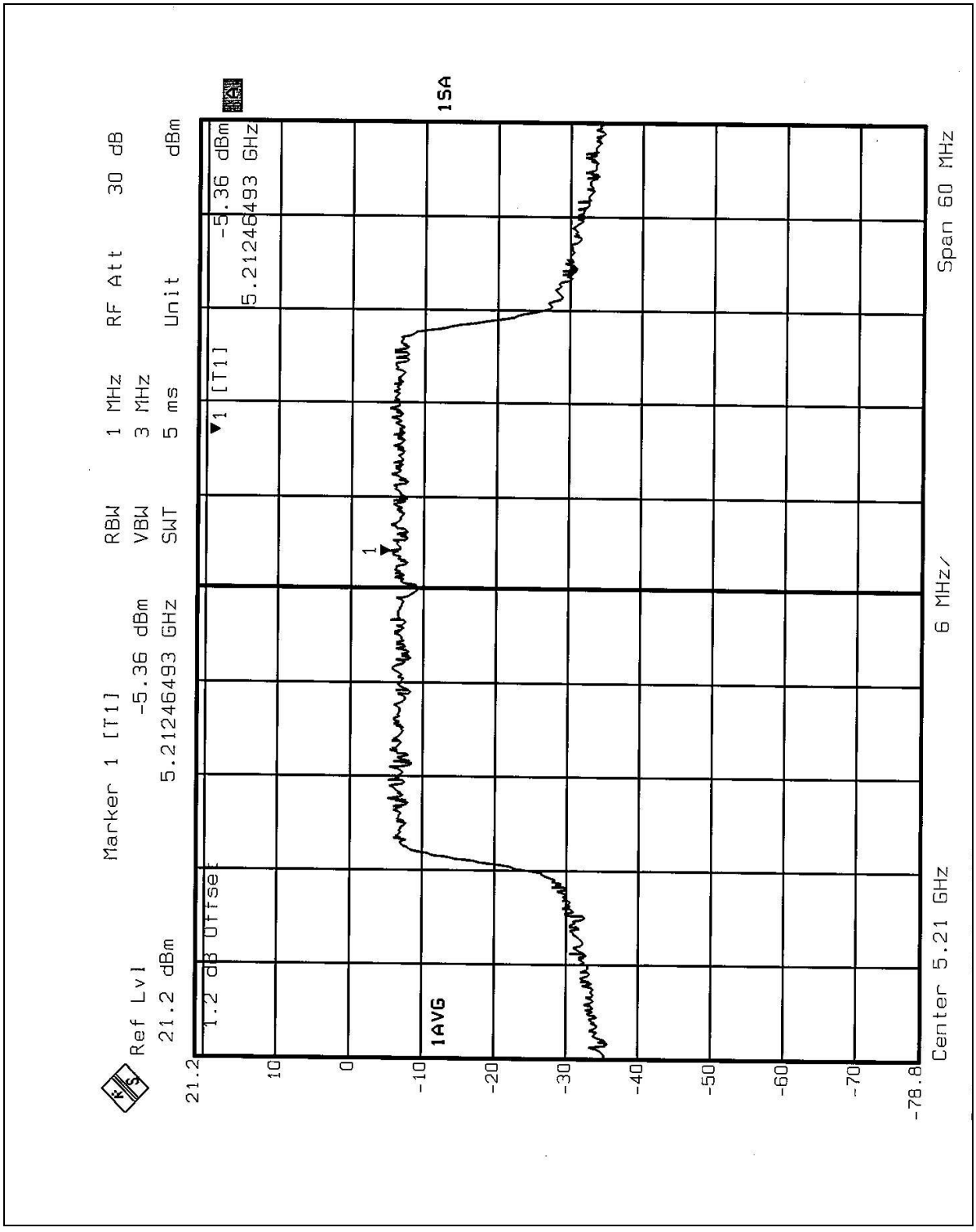
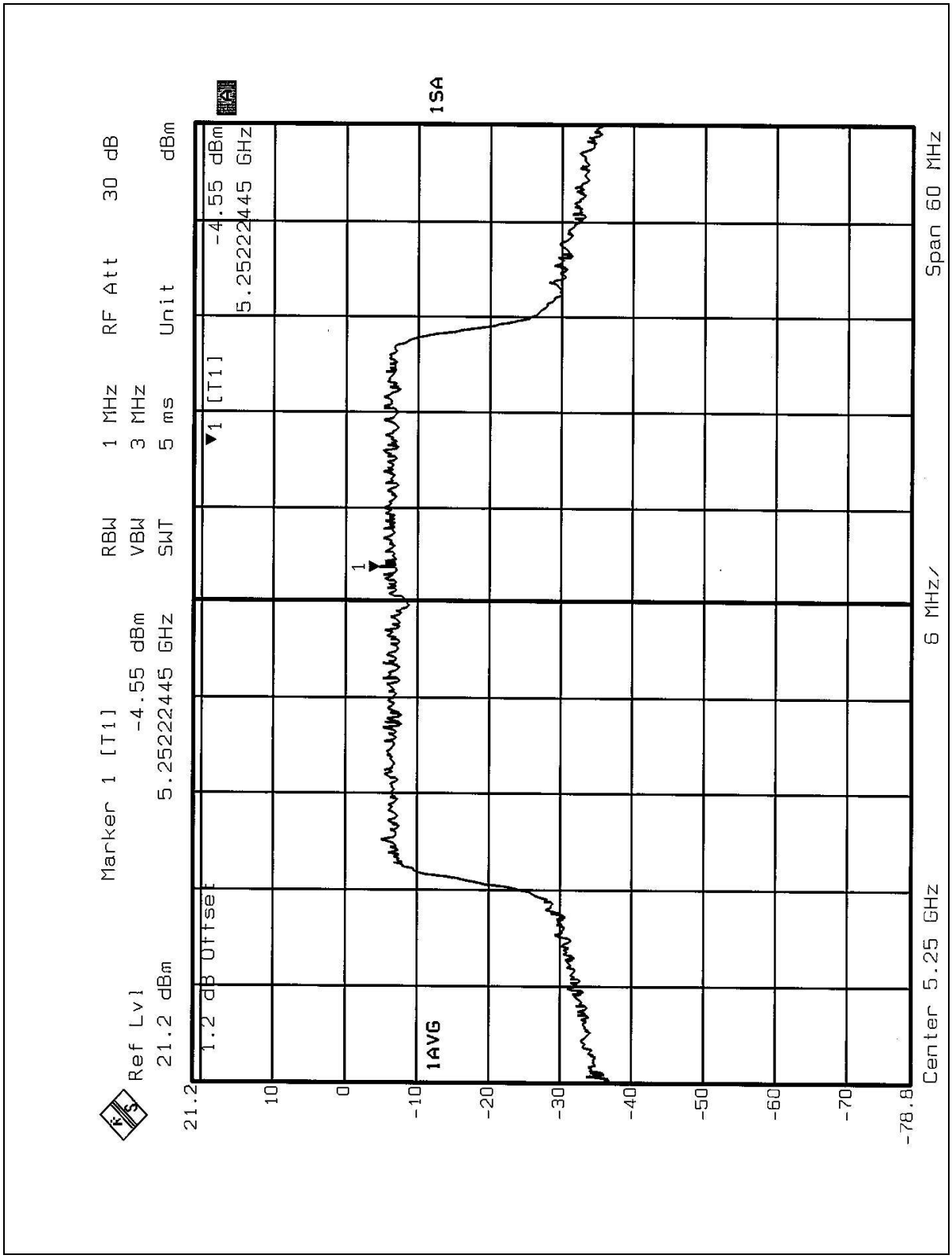
EUT	Wireless LAN and Mini PCI	**MODEL**	A13QBF
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	26deg. C, 66%RH, 1005 hPa	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5210	-5.36	4	PASS
2	5250	-4.55	4	PASS
3	5290	-4.86	11	PASS

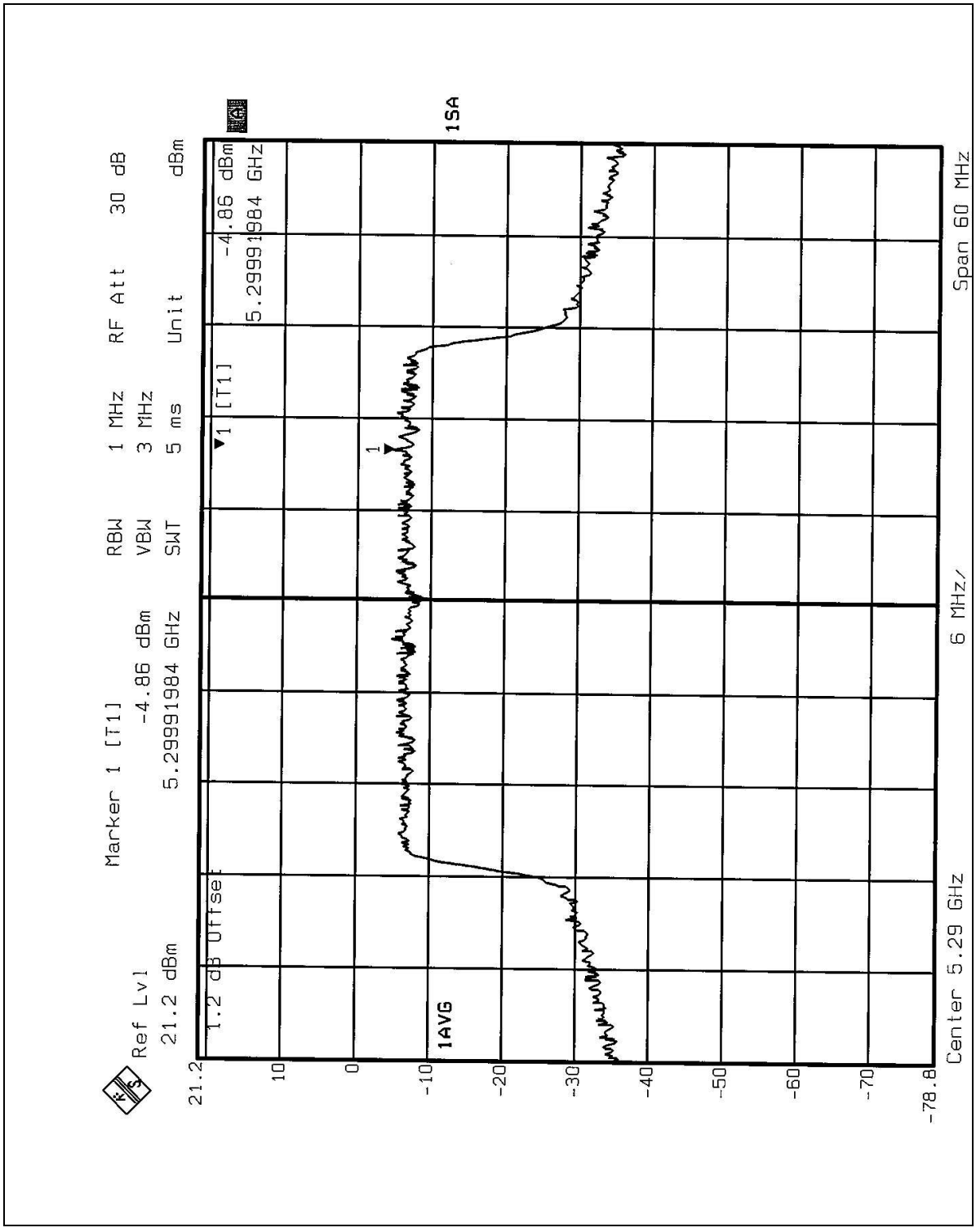
CHANNEL 1


Ref Lvl
21.2 dBm
1.2 dB Offset
Marker 1 [T1]
-5.36 dBm
5.21246493 GHz
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1]
-5.36 dBm
5.21246493 GHz
1SA
1AVG
Center 5.21 GHz
6 MHz/
Span 60 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

CHANNEL 2


Marker 1 [T1]
-4.55 dBm
5.25222445 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1]
-4.55 dBm
5.25222445 GHz
1SA
1AVG
Center 5.25 GHz
6 MHz/
Span 60 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

CHANNEL 3


Marker 1 [T1]
-4.86 dBm
5.29991984 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 1 MHz
VBW 3 MHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1SA
1AVG
Center 5.29 GHz
6 MHz/
Span 60 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

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.	Calibrated Until
ANRITSU SPECTRUM ANALYZER	MS2667C	M10281	Mar. 15, 2003
WIT STANDARD TEMPERATURE AND HUMIDITY CHAMBER	TH-4S-C	W901030	Jun. 24, 2003

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

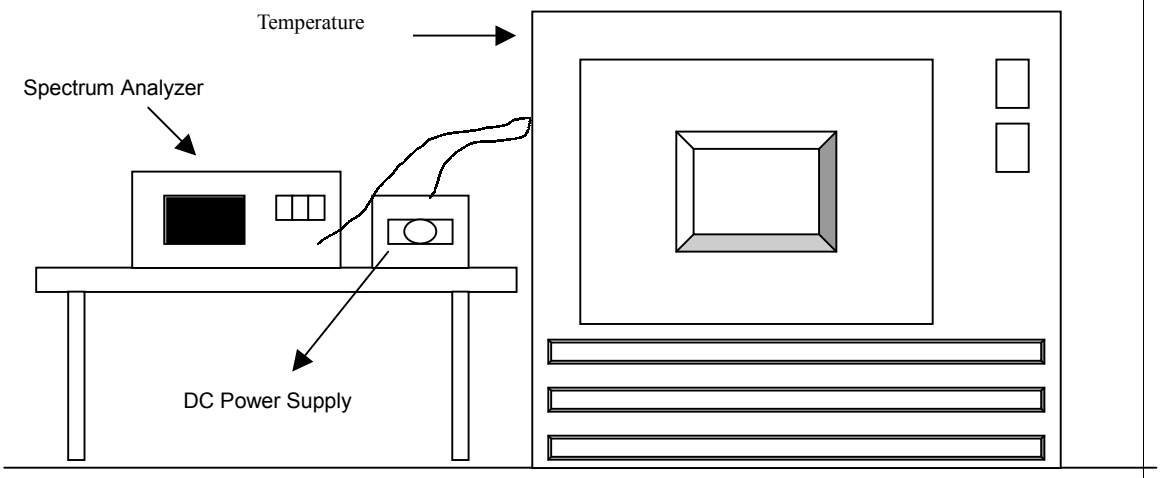
4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. 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.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. 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: 5180MHz				Limit : ± 0.02%			
Temp. (℃)	Power supply (VDC)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	126.5	5180.0043	0.0000830	5180.0057	0.0001100	5180.0067	0.0001293
	110.0	5180.0043	0.0000830	5180.0057	0.0001100	5180.0067	0.0001293
	93.5	5180.0052	0.0001004	5180.0054	0.0001042	5180.0062	0.0001197
40	126.5	5179.9947	-0.0001023	5179.9943	-0.0001100	5179.9940	-0.0001158
	110.0	5179.9947	-0.0001023	5179.9973	-0.0000521	5179.9940	-0.0001158
	93.5	5179.9945	-0.0001062	5179.9946	-0.0001042	5179.9945	-0.0001062
30	126.5	5179.9877	-0.0002375	5179.9873	-0.0002452	5179.9880	-0.0002317
	110.0	5179.9877	-0.0002375	5179.9873	-0.0002452	5179.9880	-0.0002317
	93.5	5179.9873	-0.0002452	5179.9875	-0.0002413	5179.9880	-0.0002317
20	126.5	5179.9927	-0.0001409	5179.9923	-0.0001486	5179.9923	-0.0001486
	110.0	5179.9927	-0.0001409	5179.9923	-0.0001486	5179.9923	-0.0001486
	93.5	5179.9923	-0.0001486	5179.9926	-0.0001429	5179.9925	-0.0001448
10	126.5	5179.9973	-0.0000521	5179.9970	-0.0000579	5179.9980	-0.0000386
	110.0	5179.9973	-0.0000521	5179.9970	-0.0000579	5179.9980	-0.0000386
	93.5	5179.9969	-0.0000598	5179.9973	-0.0000521	5179.9984	-0.0000309
0	126.5	5180.0017	0.0000328	5180.0020	0.0000386	5180.0027	0.0000521
	110.0	5180.0017	0.0000328	5180.0020	0.0000386	5180.0027	0.0000521
	93.5	5180.0014	0.0000270	5180.0024	0.0000463	5180.0022	0.0000425
-10	126.5	5180.0123	0.0002375	5180.0127	0.0002452	5180.0137	0.0002645
	110.0	5180.0123	0.0002375	5180.0127	0.0002452	5180.0137	0.0002645
	93.5	5180.0125	0.0002413	5180.0124	0.0002394	5180.0141	0.0002722
-20	126.5	5180.0133	0.0002568	5180.0123	0.0002375	5180.0127	0.0002452
	110.0	5180.0133	0.0002568	5180.0123	0.0002375	5180.0127	0.0002452
	93.5	5180.0136	0.0002625	5180.0127	0.0002452	5180.0132	0.0002548
-30	126.5	5180.0093	0.0001795	5180.0100	0.0001931	5180.0090	0.0001737
	110.0	5180.0093	0.0001795	5180.0100	0.0001931	5180.0090	0.0001737
	93.5	5180.0096	0.0001853	5180.0107	0.0002066	5180.0092	0.0001776

4.7 BAND EDGES MEASUREMENT

4.7.1 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set both RBW and VBW of spectrum analyzer to 1MHz with suitable frequency span including 100MHz bandwidth from band edge. The band edges was measured and recorded.

4.7.3 EUT OPERATING CONDITION

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

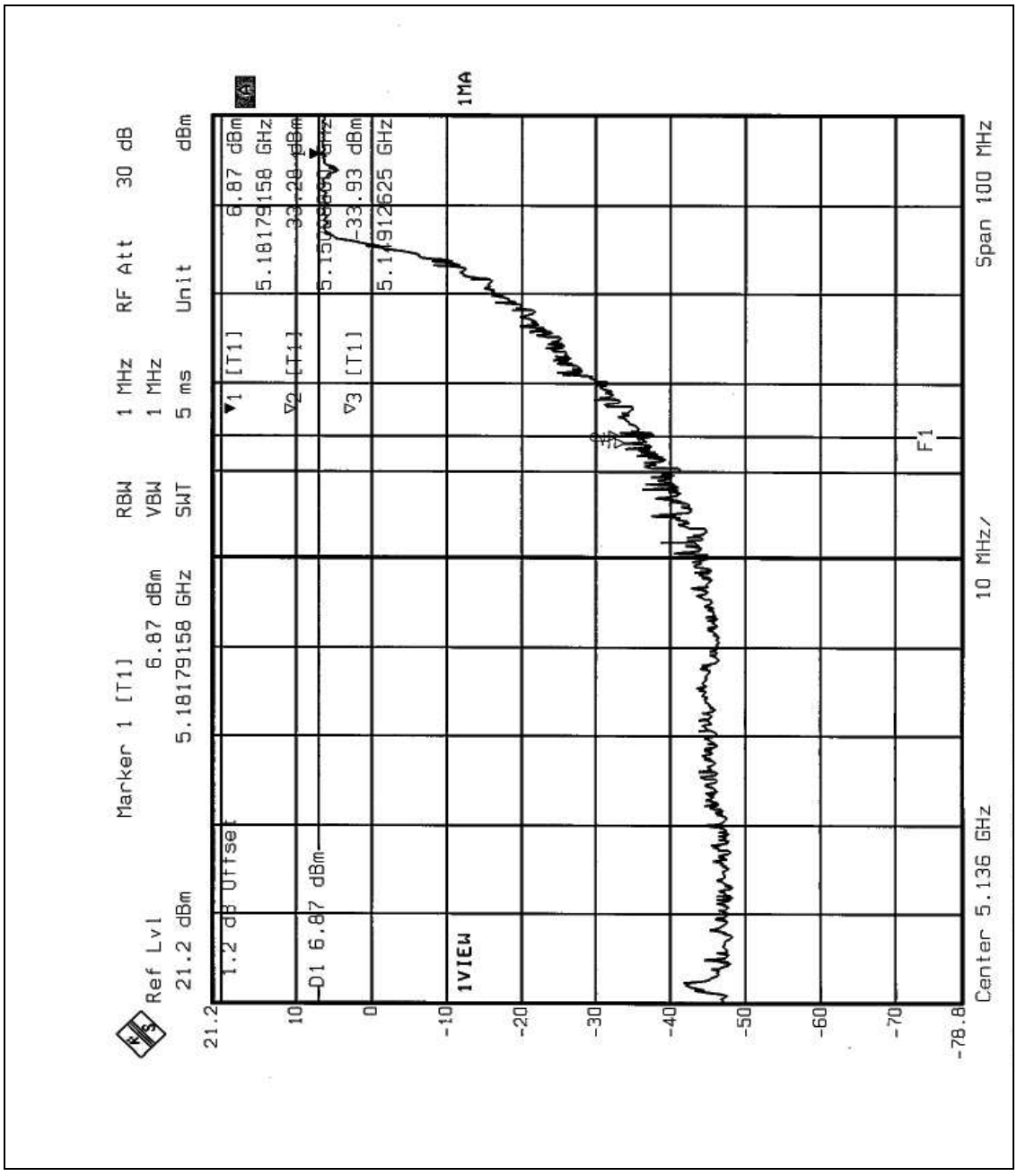
4.7.4 TEST RESULTS

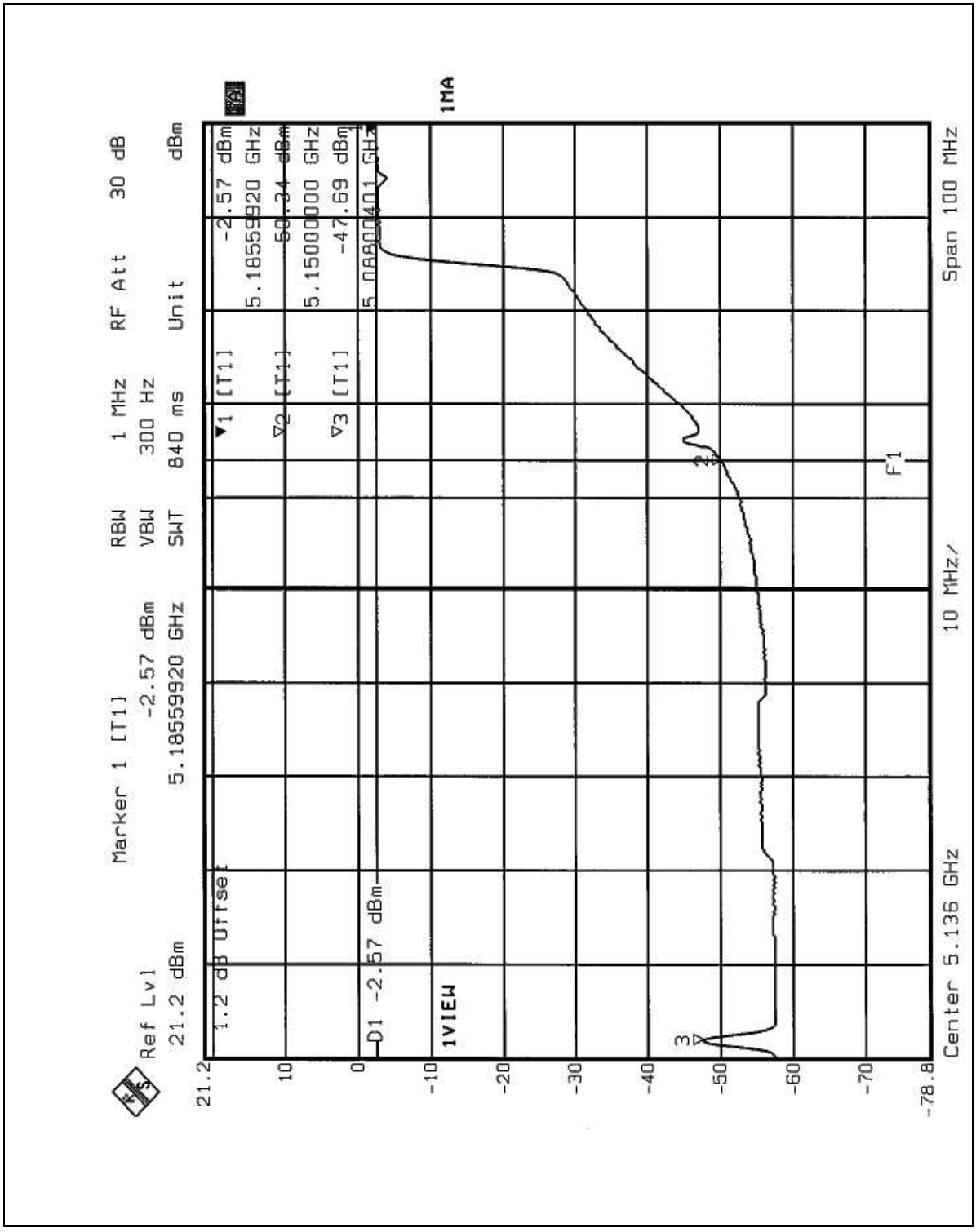
For signals in the restricted bands above and below the 5.15 to 5.35 GHz allocated band a measurement was made of the amplitude of the spurious emissions with respect to the intentional signals. The relative amplitude, in dBc, was applied to the average and peak filed strength of the intentional signal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

The spectrum plots (Peak RBW=VBW=1MHz; Average RBW=1MHz, VBW=300Hz) are attached on the following pages.

Normal Mode: Channel 1 (5180 MHz)

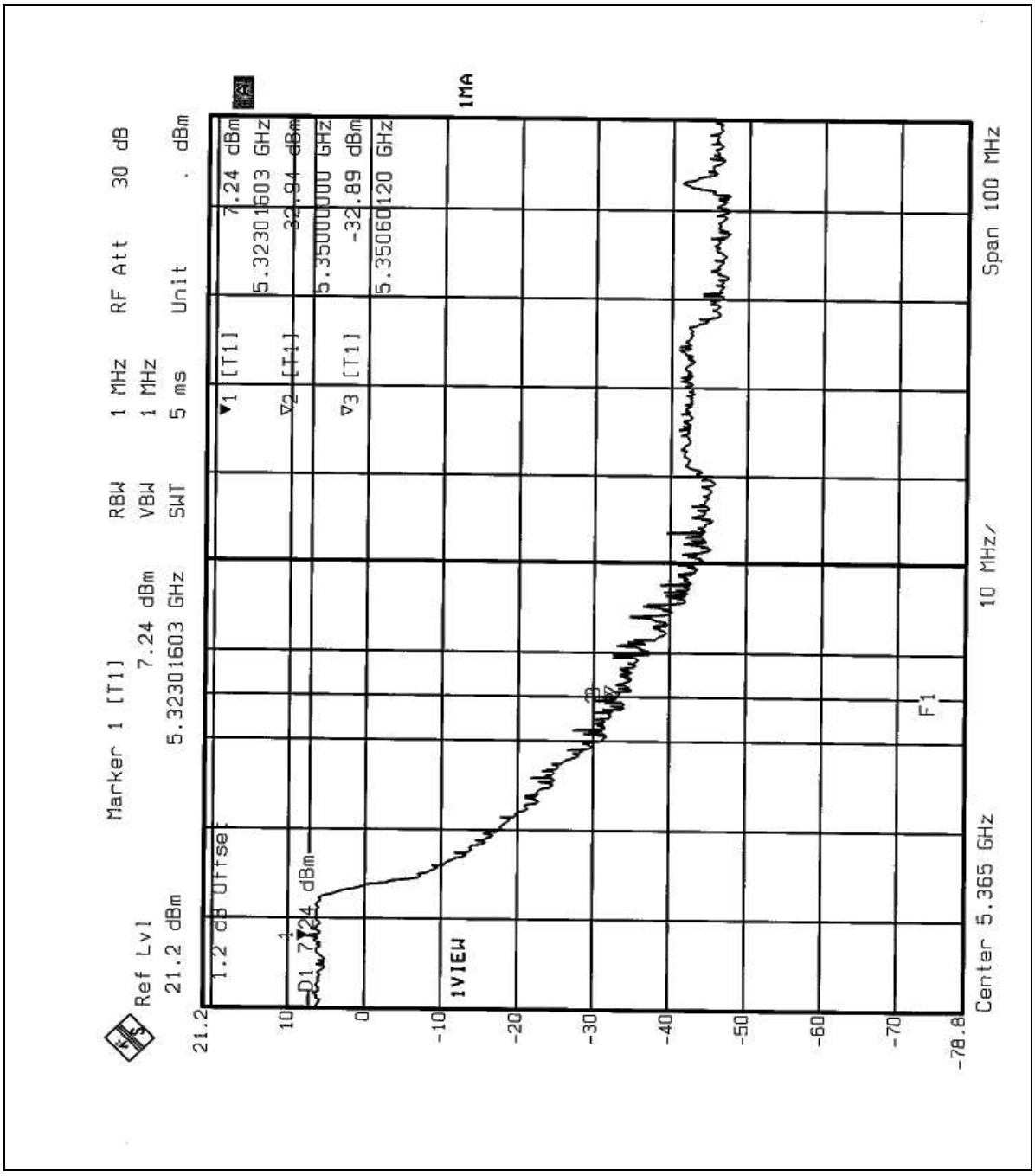
The band edge emission plot on the following 2 pages shows 40.15dBc (Peak) / 45.12dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 96.90dBuV/m, so the maximum field strength in restrict band is 96.90-45.12=51.78dBuV/m which is under 54dBuV/m limit.

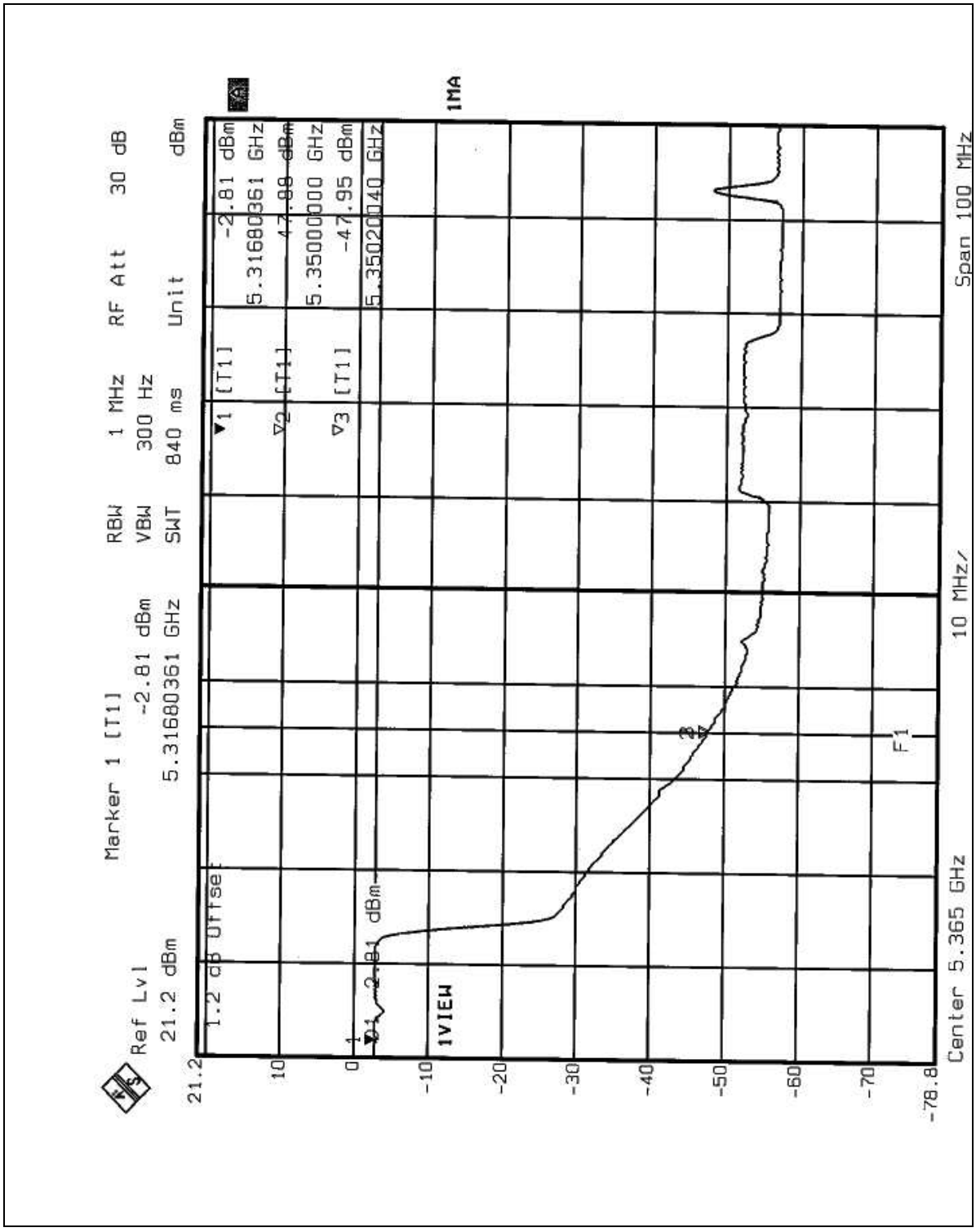



Ref Lvl
21.2 dBm
1.2 dB Offset
Marker 1 [T1]
-2.57 dBm
5.18559920 GHz
D1 -2.57 dBm
RBW 1 MHz
VBW 300 Hz
SWT 840 ms
RF Att 30 dB
Unit dBm
1 [T1] -2.57 dBm
5.18559920 GHz
2 [T1] -60.34 dBm
5.15000000 GHz
3 [T1] -47.69 dBm
5.08800401 GHz
1MA
1VIEW
Center 5.136 GHz
10 MHz/
Span 100 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

Normal Mode: Channel 8 (5320 MHz)

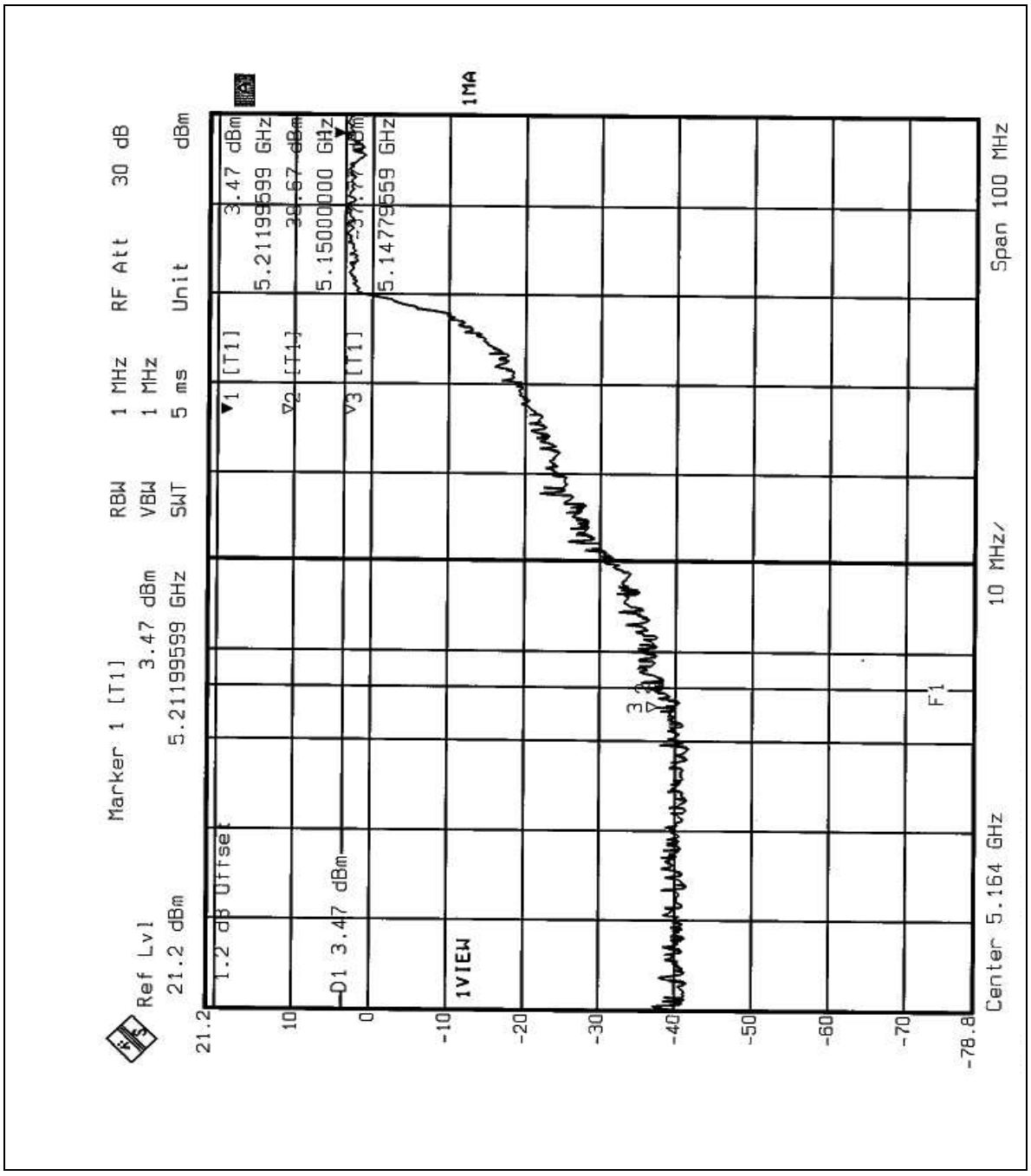
The band edge emission plot on the following 2 pages shows 40.13dBc (Peak) / 45.07dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 8 (normal mode) is 96.10dBuV/m, so the maximum field strength in restrict band is 96.10-45.07=51.03dBuV/m which is under 54dBuV/m limit.

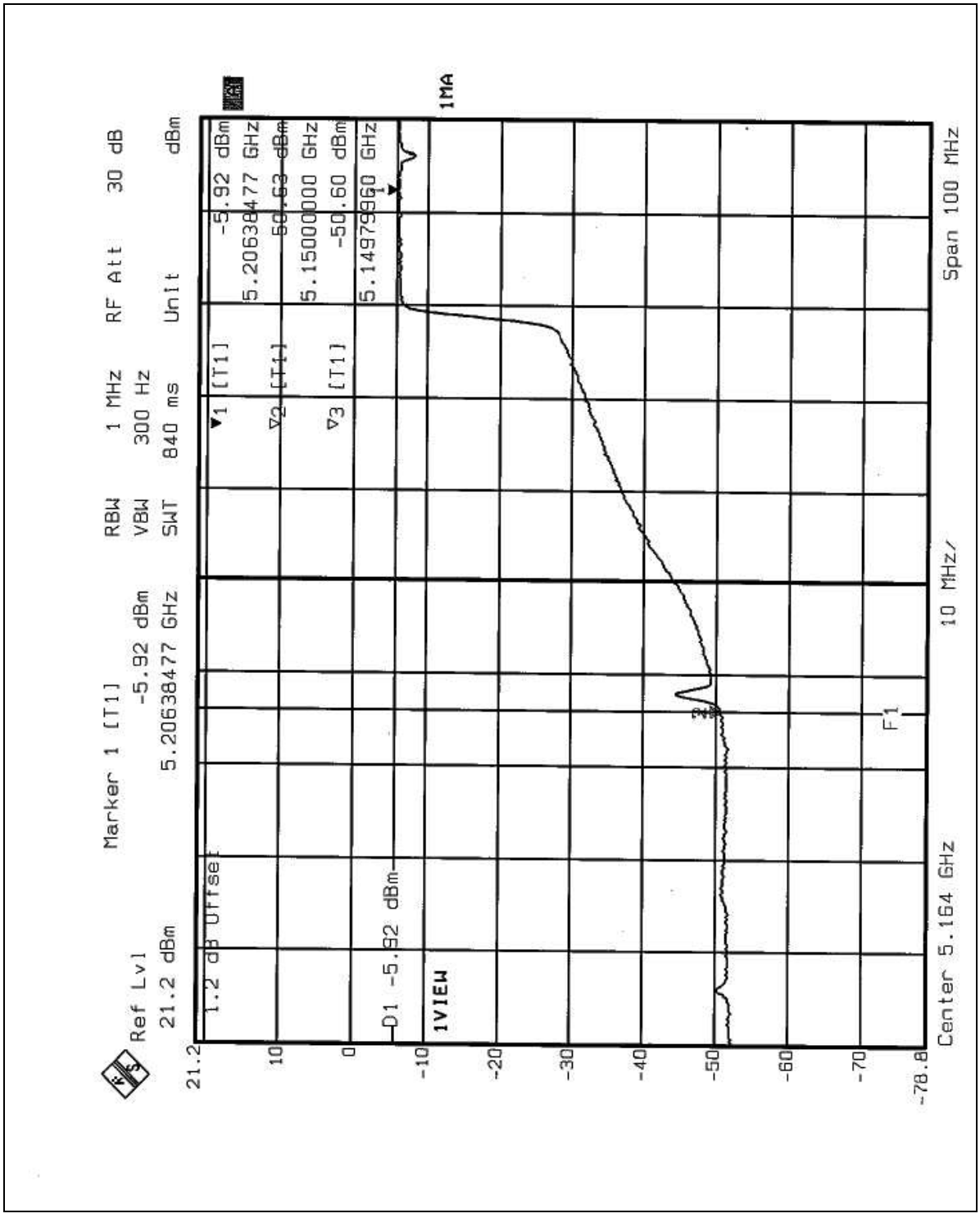



Marker 1 [T1]
-2.81 dBm
5.31680361 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 1 MHz
VBW 300 Hz
SWT 840 ms
RF Att 30 dB
Unit dBm
1 [T1] -2.81 dBm
5.31680361 GHz
2 [T1] 47.88 dBm
5.35000000 GHz
3 [T1] -47.95 dBm
5.35020040 GHz
1MA
1VIEW
D1 -2.81 dBm
Center 5.365 GHz
10 MHz/
Span 100 MHz
F1
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

Turbo Mode: Channel 1 (5210 MHz)

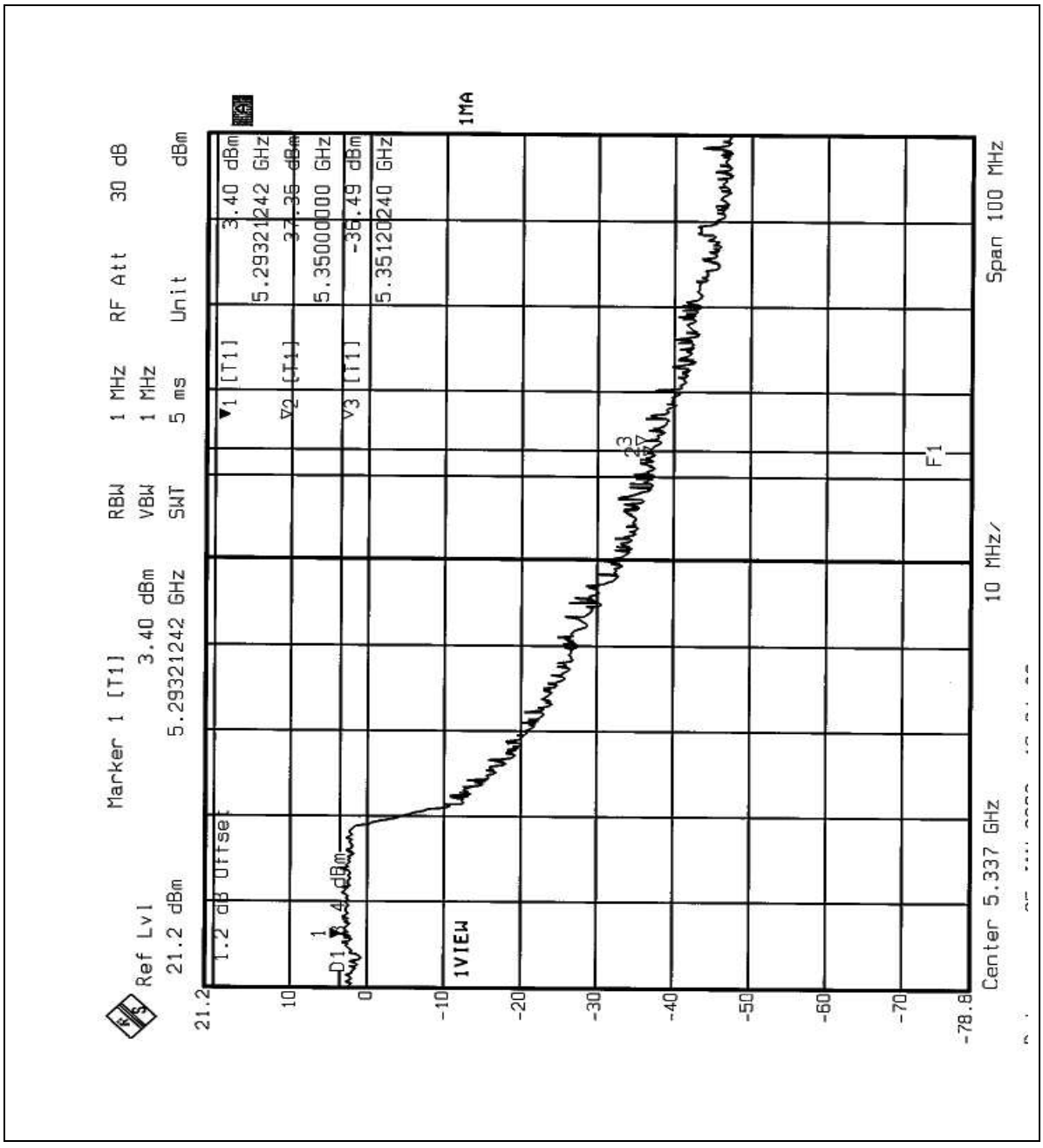
The band edge emission plot on the following 2 pages shows 41.24dBc (Peak) / 44.68dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 1 (normal mode) is 93.20dBuV/m, so the maximum field strength in restrict band is 93.20-44.68=48.52dBuV/m which is under 54dBuV/m limit.

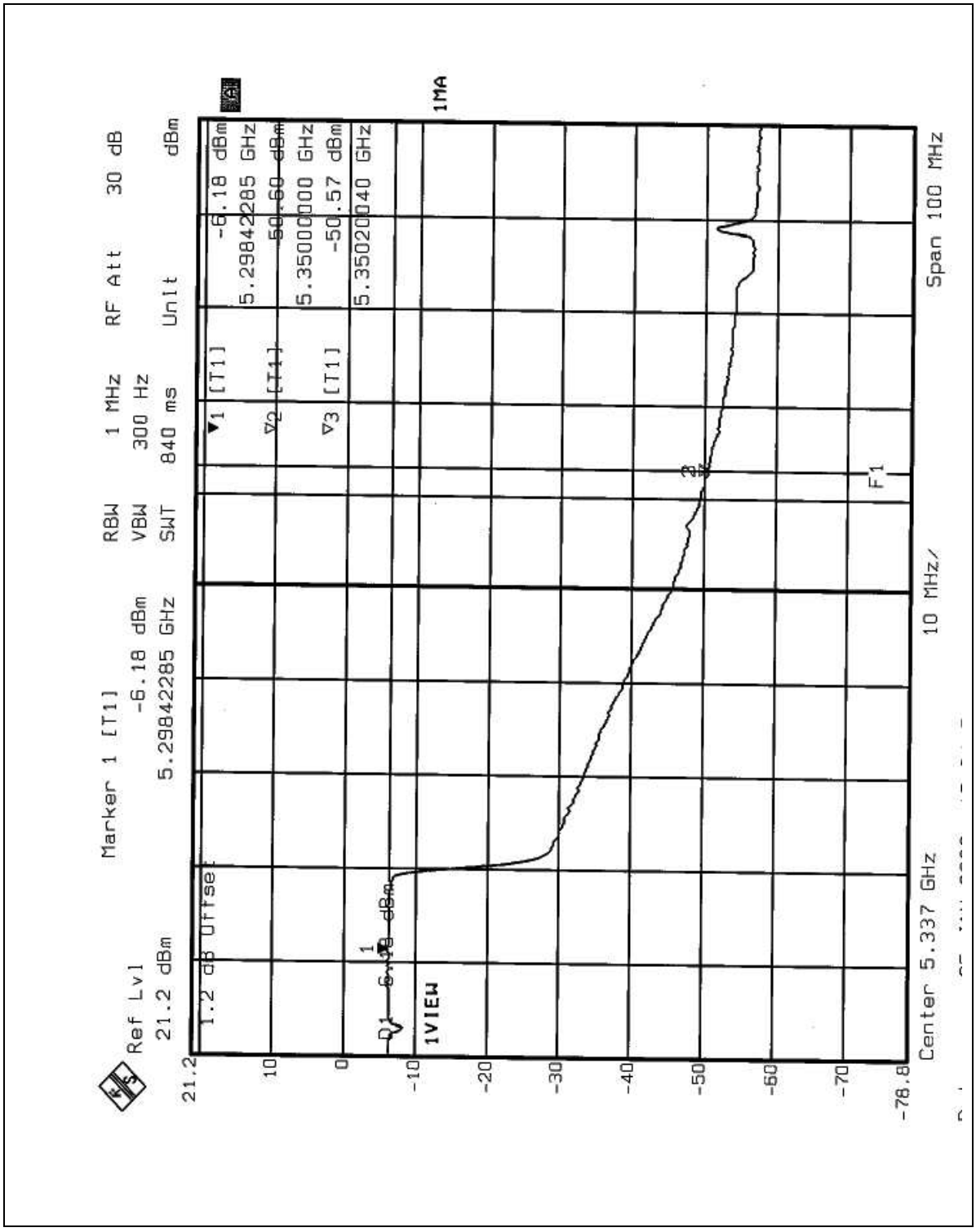



Marker 1 [T1]
-5.92 dBm
5.20638477 GHz
RBW 1 MHz
VBW 300 Hz
SWT 840 ms
RF Att 30 dB
Unit dBm
Ref Lvl
21.2 dBm
1.2 dB Offset
D1 -5.92 dBm
1VIEW
1MA
F1
Center 5.164 GHz
10 MHz/
Span 100 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

Turbo Mode: Channel 3 (5290 MHz)

The band edge emission plot on the following 2 pages shows 39.89dBc (Peak) / 44.39dBc (Average) between carrier maximum power and local maximum emission in restrict band. The emission of carrier strength list in the test result of channel 3 (normal mode) is 90.10dBuV/m, so the maximum field strength in restrict band is 90.10-44.39=45.71dBuV/m which is under 54dBuV/m limit.




Marker 1 [T1]
-6.18 dBm
5.29842285 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 1 MHz
VBW 300 Hz
SWT 840 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
Center 5.337 GHz
Span 100 MHz
10 MHz/

FOR FREQUENCY 5.725~5.850GHz

4.8 6dB BANDWIDTH MEASUREMENT

4.8.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

4.8.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

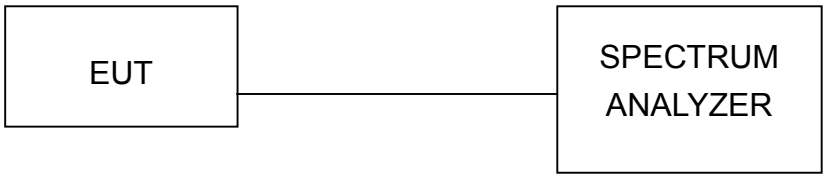
4.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

4.8.4 DEVIATION FROM TEST STANDARD

No deviation

4.8.5 TEST SETUP



4.8.6 EUT OPERATING CONDITIONS

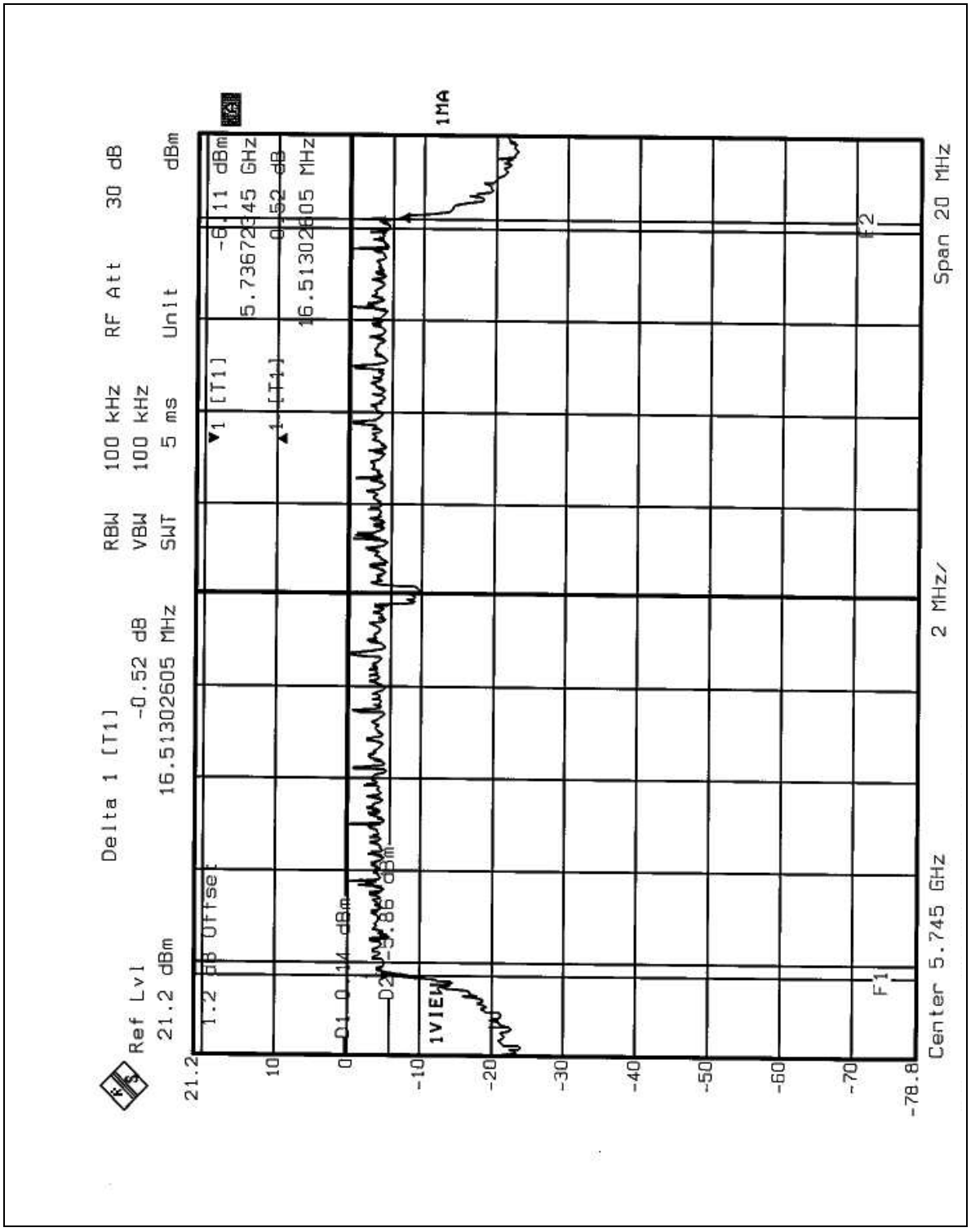
The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.8.7 TEST RESULTS

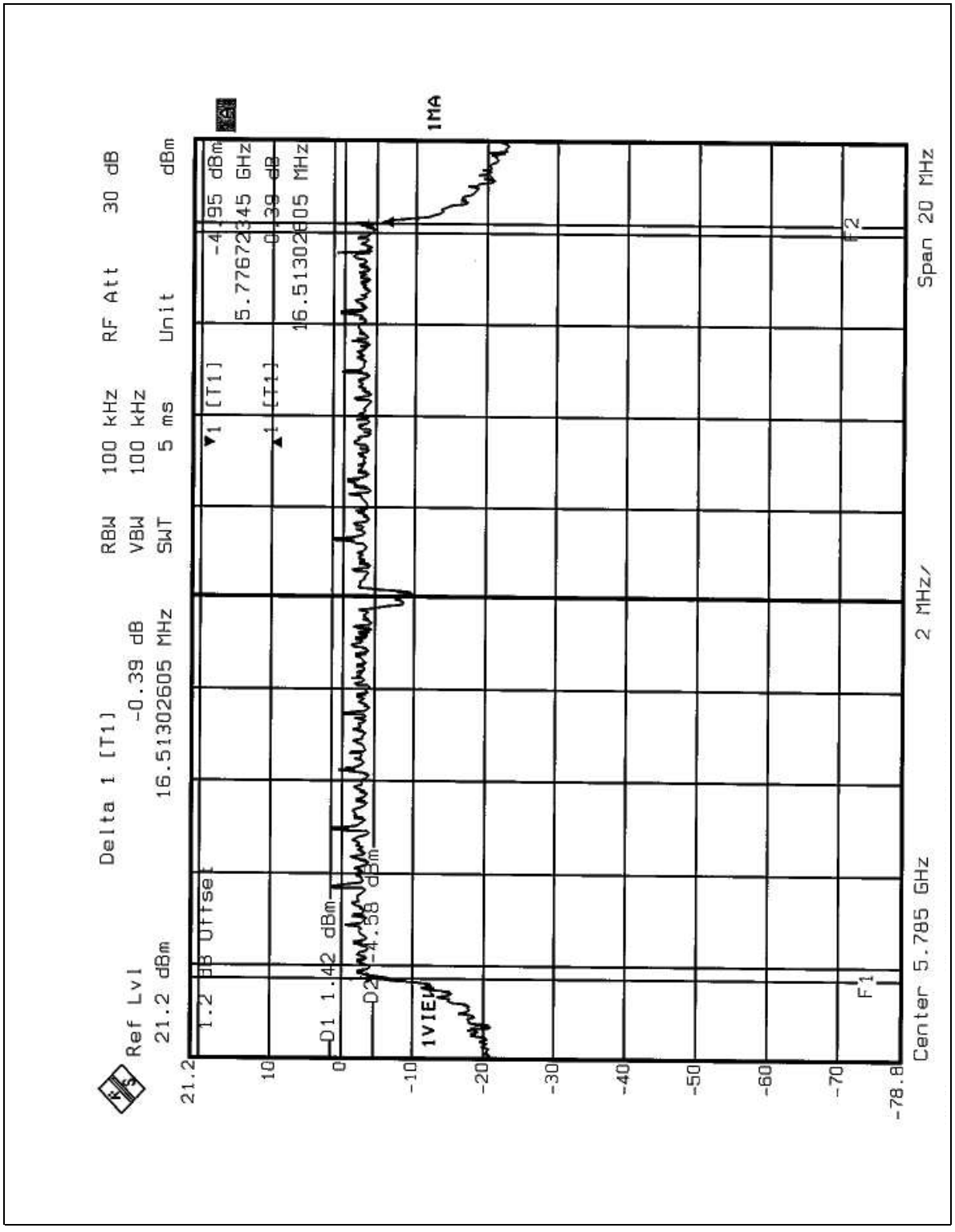
EUT	Wireless LAN and Mini PCI	**MODEL**	A13QBF
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 1005 hPa	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
9	5745	16.513	0.5	PASS
11	5785	16.513	0.5	PASS
13	5825	16.472	0.5	PASS

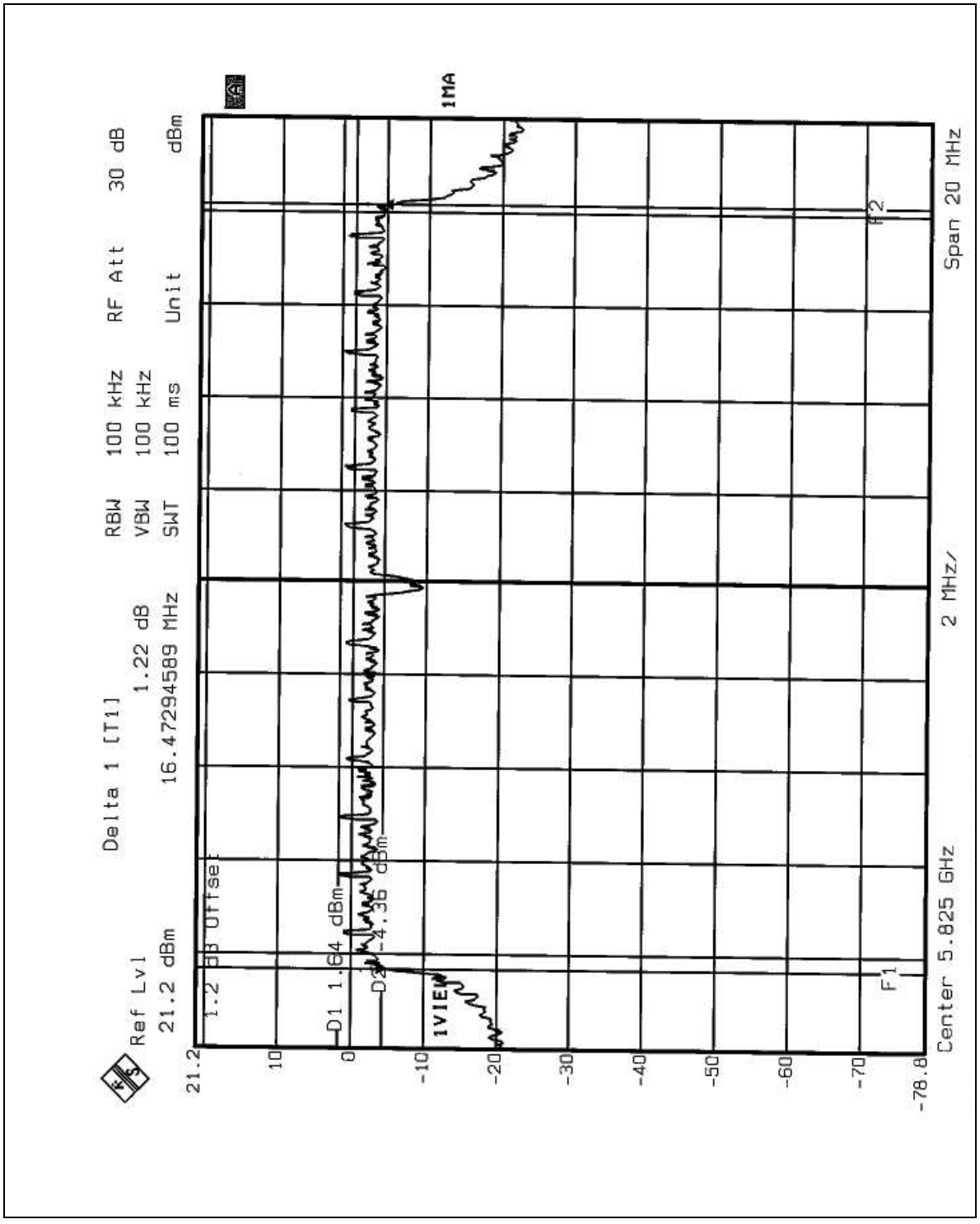
CHANNEL 9


Delta 1 [T1]
-0.52 dB
16.51302605 MHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1]
-6.11 dBm
5.73672345 GHz
0.52 dB
16.51302605 MHz
1MA
1VIEW
D1 0.14 dBm
D2 -9.86 dBm
F1
F2
Center 5.745 GHz
2 MHz/
Span 20 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

CHANNEL 11


Delta 1 [T1]
-0.39 dB
16.51302605 MHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 100 kHz
VBW 100 kHz
SWT 5 ms
RF Att 30 dB
Unit dBm
1 [T1] -4.95 dBm
5.77672345 GHz
1 [T1] 0.39 dB
16.51302605 MHz
1MA
D1 1.42 dBm
D2 -4.58 dBm
1VIEW
F1
F2
Center 5.785 GHz
2 MHz/
Span 20 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

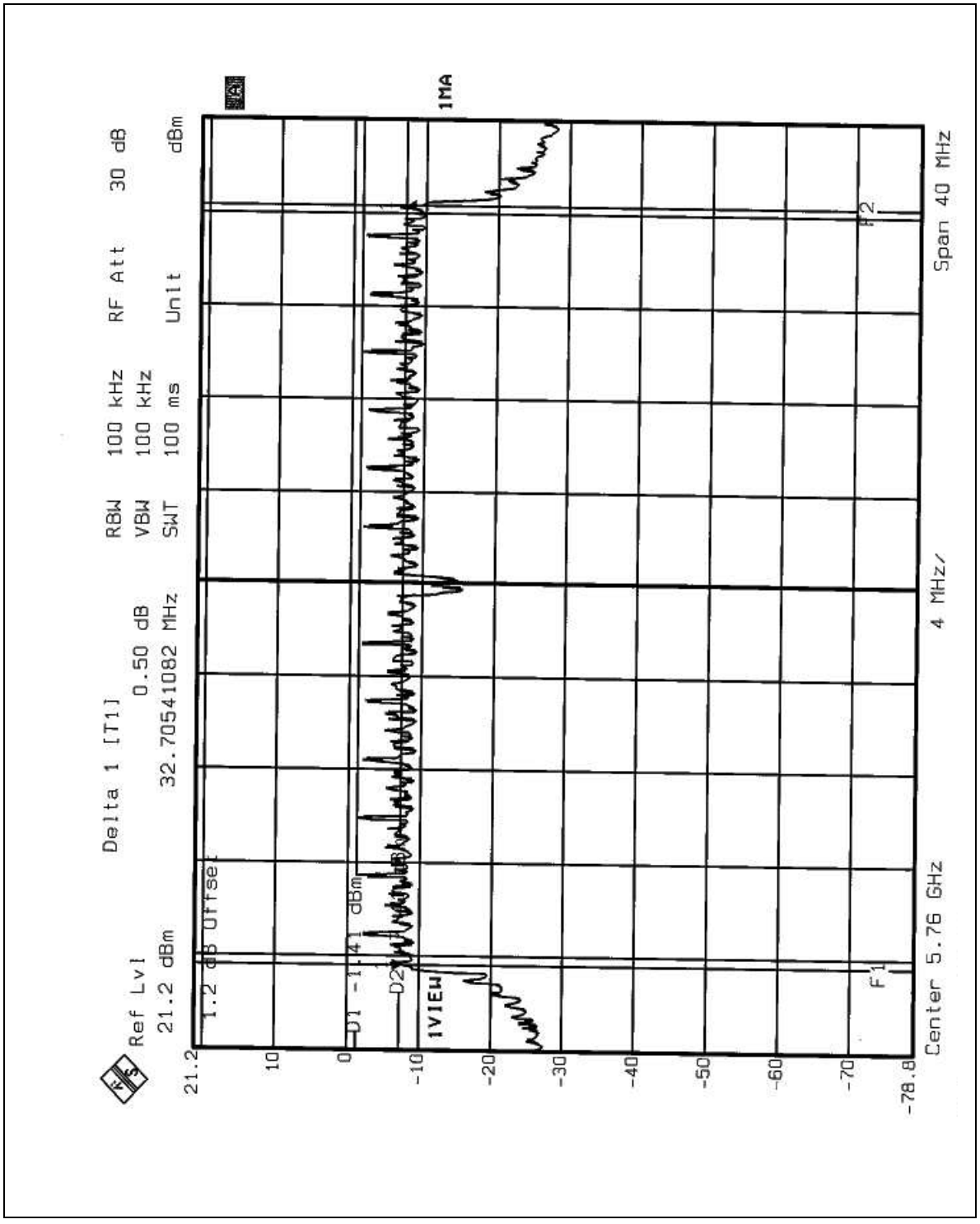
CHANNEL 13


Delta 1 [T1]
1.22 dB
16.4729589 MHz
Ref Lvl
21.2 dBm
1.2 dB Offset
D1 1.64 dBm
D2 -4.36 dBm
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
F1
F2
Center 5.825 GHz
2 MHz/
Span 20 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

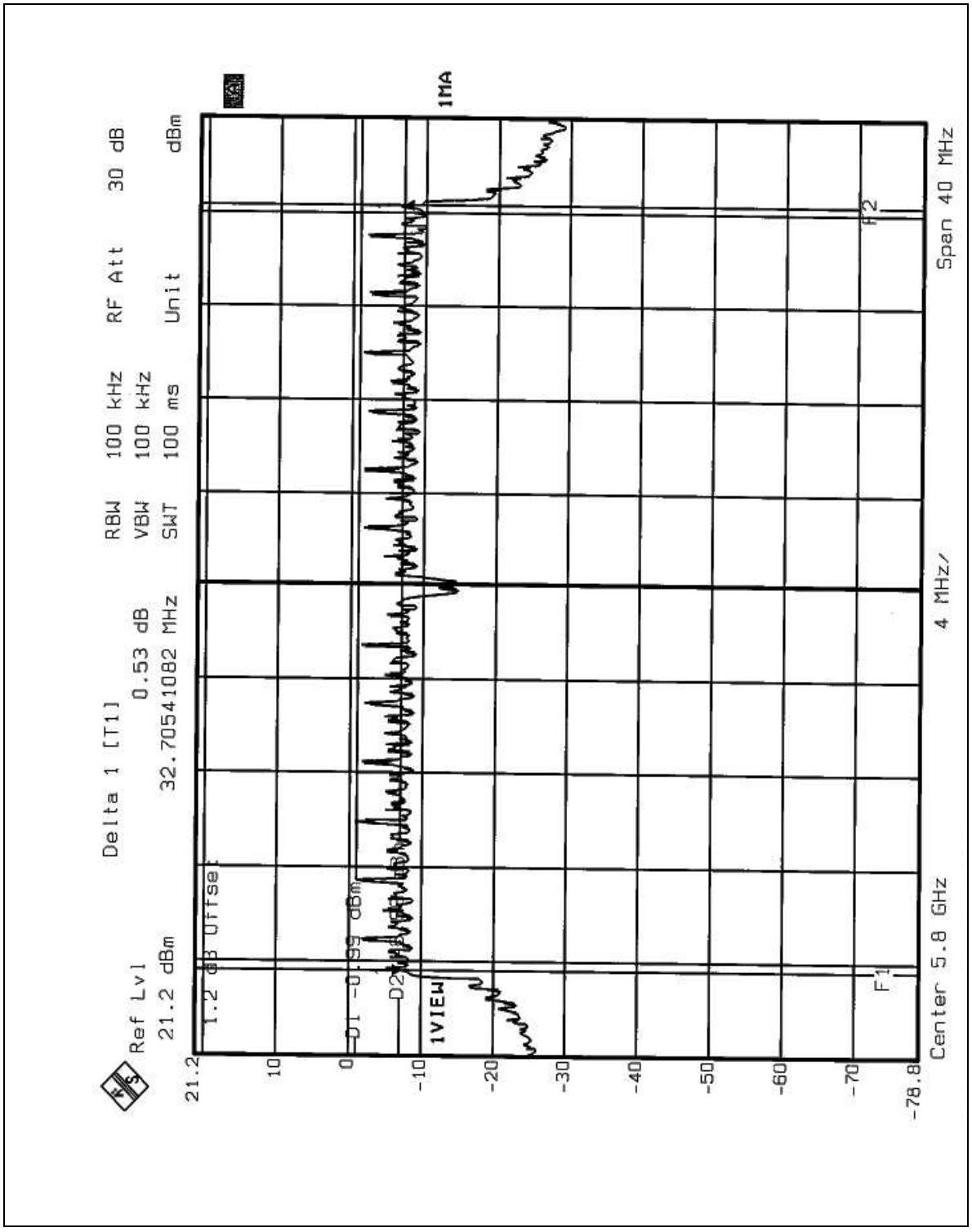
EUT	Wireless LAN and Mini PCI	**MODEL**	A13QBF
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 1005 hPa	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	6dB BANDWIDTH (MHz)	MINIMUM LIMIT (MHz)	PASS/FAIL
4	5760	32.705	0.5	PASS
5	5800	32.705	0.5	PASS

CHANNEL 4


Delta 1 [T1]
0.50 dB
32.70541082 MHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
D1 -1.41 dBm
D2
F1
F2
Center 5.76 GHz
4 MHz/
Span 40 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

CHANNEL 5


Delta 1 [T1]
0.53 dB
32.70541082 MHz
RBW 100 kHz
VBW 100 kHz
SWT 100 ms
RF Att 30 dB
Unit dBm
Ref Lvl
21.2 dBm
1.2 dB Offset
D1 -0.99 dBm
1VIEW
1MA
F1
F2
Center 5.8 GHz
4 MHz/
Span 40 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

4.9 MAXIMUM PEAK OUTPUT POWER

4.9.1 LIMITS OF MAXIMUM PEAK OUTPUT POWER MEASUREMENT

The Maximum Peak Output Power Measurement is 30dBm.

4.9.2 INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
PEAK POWER SENSOR	E9327A	US40440722	Jul. 30, 2003
POWER METER	E4416A	GB41291118	Jul. 30, 2003

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

4.9.3 TEST PROCEDURES

The transmitter output was connected to the peak power meter.

4.9.4 DEVIATION FROM TEST STANDARD

No deviation

4.9.5 TEST SETUP

4.9.6 EUT OPERATING CONDITIONS

Same as Item 4.8.6.

4.9.7 TEST RESULTS

EUT	Wireless LAN and Mini PCI	MODEL	A13QBF
MODE	Normal	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 1005 hPa	TESTED BY	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
9	5745	18.96	30	PASS
11	5785	20.87	30	PASS
13	5825	20.42	30	PASS

EUT	Wireless LAN and Mini PCI	MODEL	A13QBF
MODE	Turbo	INPUT POWER (SYSTEM)	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 1005 hPa	TESTED BY	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	PASS/FAIL
4	5760	16.32	30	PASS
5	5800	16.78	30	PASS

4.10 POWER SPECTRAL DENSITY MEASUREMENT

4.10.1 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum of Power Spectral Density Measurement is 8dBm.

4.10.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

4.10.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using 3 kHz RBW and 30 kHz VBW, set sweep time = span/3 kHz. The power spectral density was measured and recorded.
The sweep time is allowed to be longer than span/3 kHz for a full response of the mixer in the spectrum analyzer.

4.10.4 DEVIATION FROM TEST STANDARD

No deviation

4.10.5 TEST SETUP

4.10.6 EUT OPERATING CONDITION

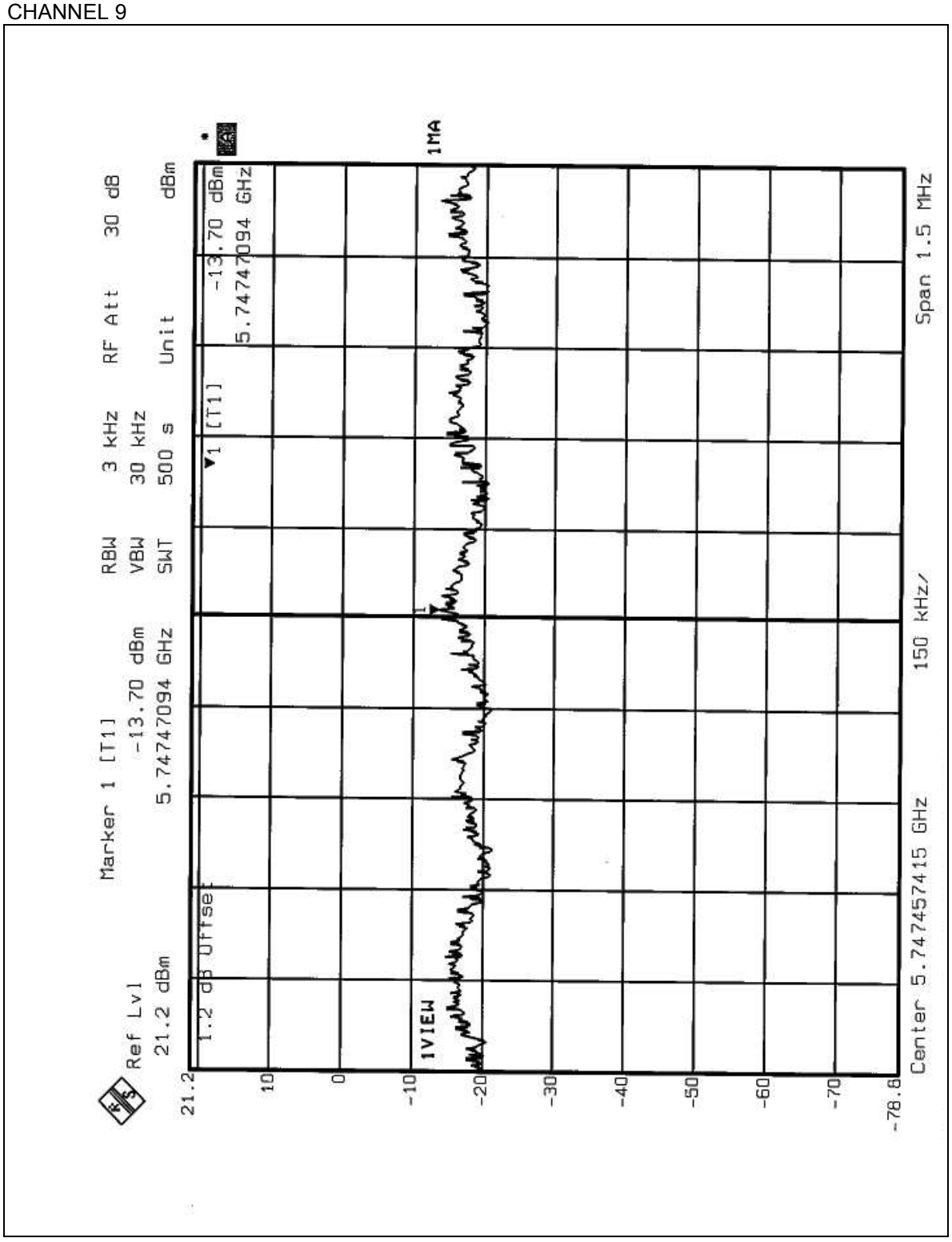
Same as Item 4.8.6

4.10.7 TEST RESULTS

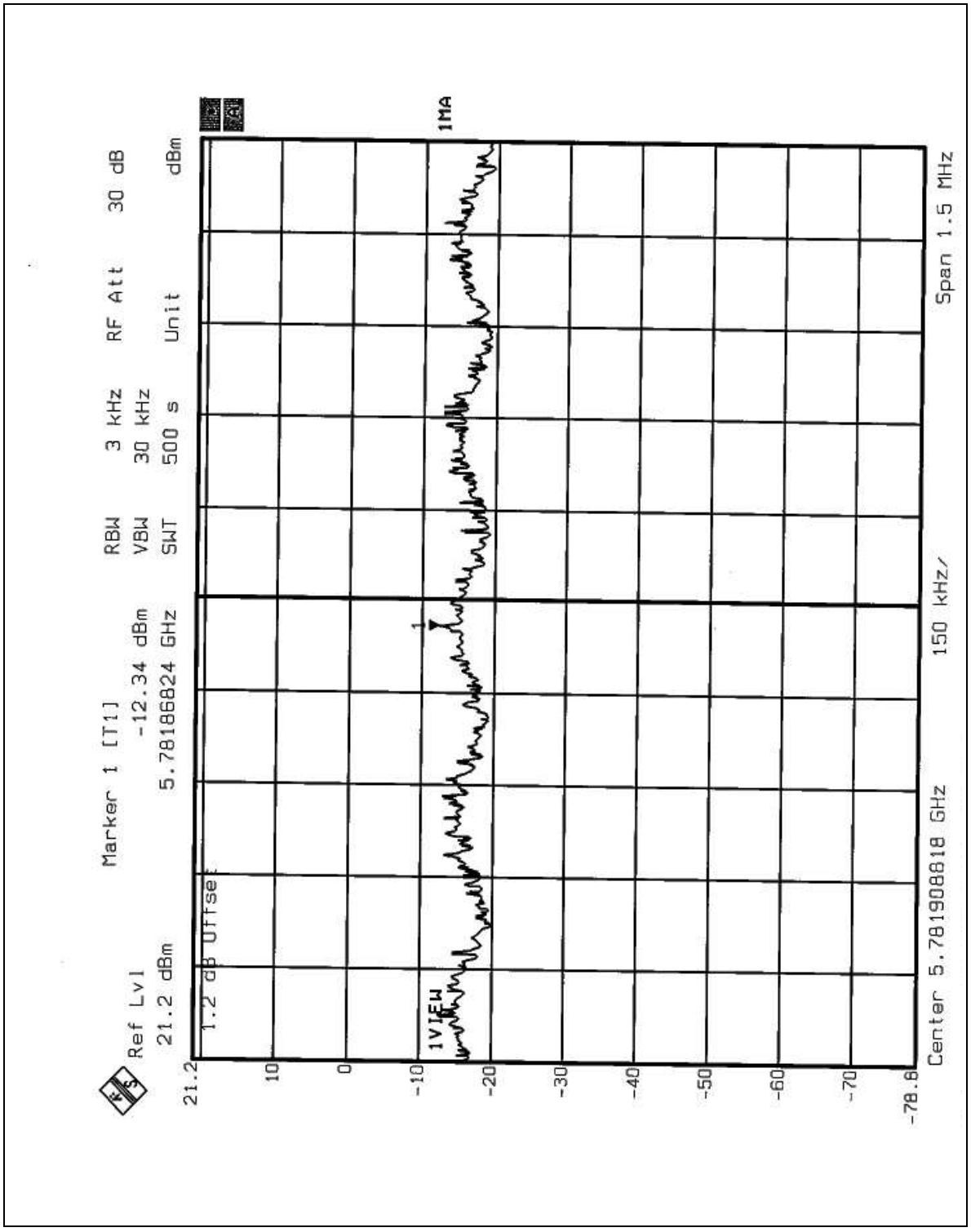
EUT	Wireless LAN and Mini PCI	**MODEL**	A13QBF
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 1005 hPa	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
9	5745	-13.70	8	PASS
11	5785	-12.34	8	PASS
13	5825	-13.30	8	PASS

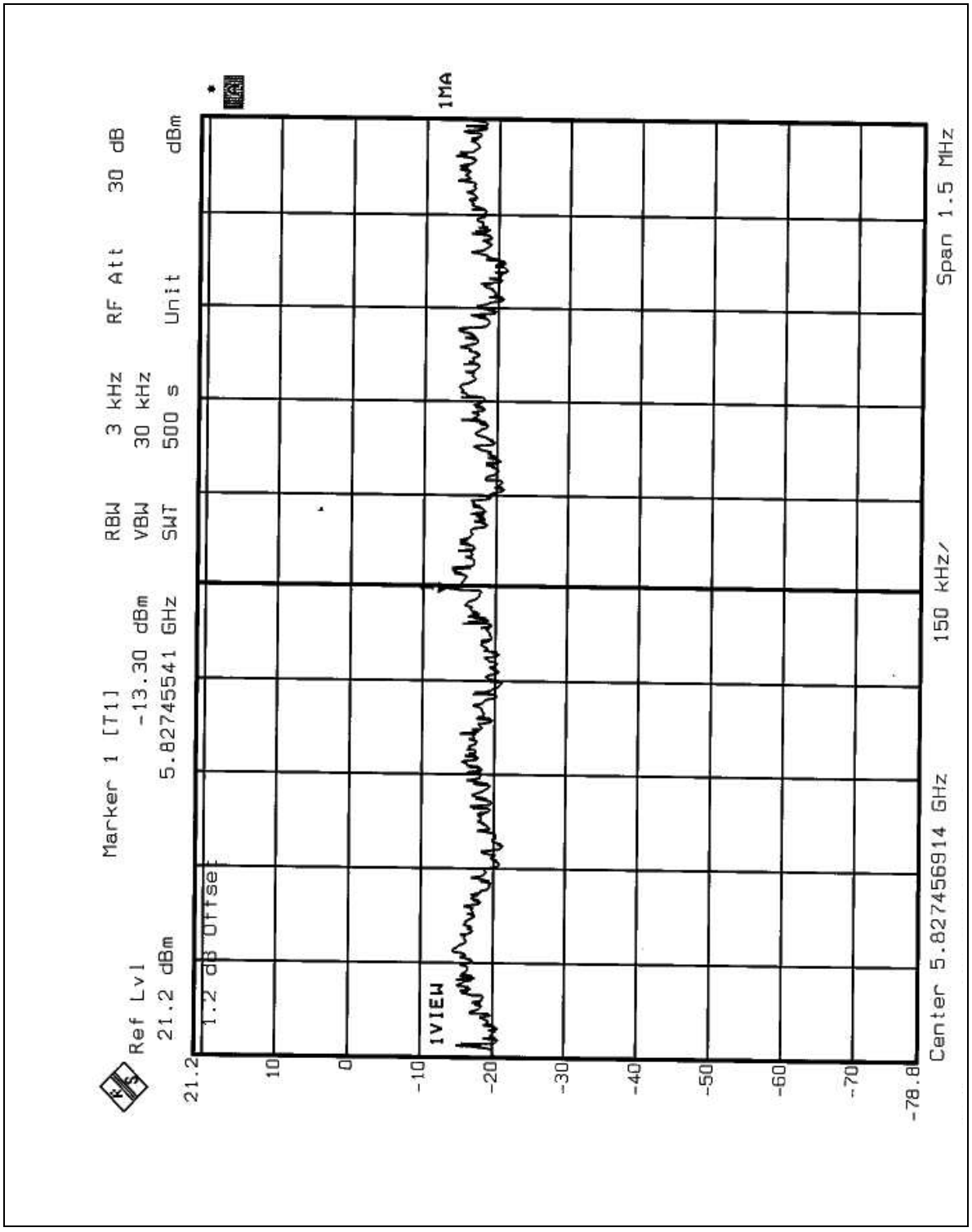
CHANNEL 9


Marker 1 [T1]
-13.70 dBm
5.74747094 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
Center 5.74745415 GHz
150 kHz/
Span 1.5 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

CHANNEL 11


Ref Lvl
21.2 dBm
1.2 dB Offset
Marker 1 [T1]
-12.34 dBm
5.78186824 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
Center 5.781908818 GHz
150 kHz/
Span 1.5 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

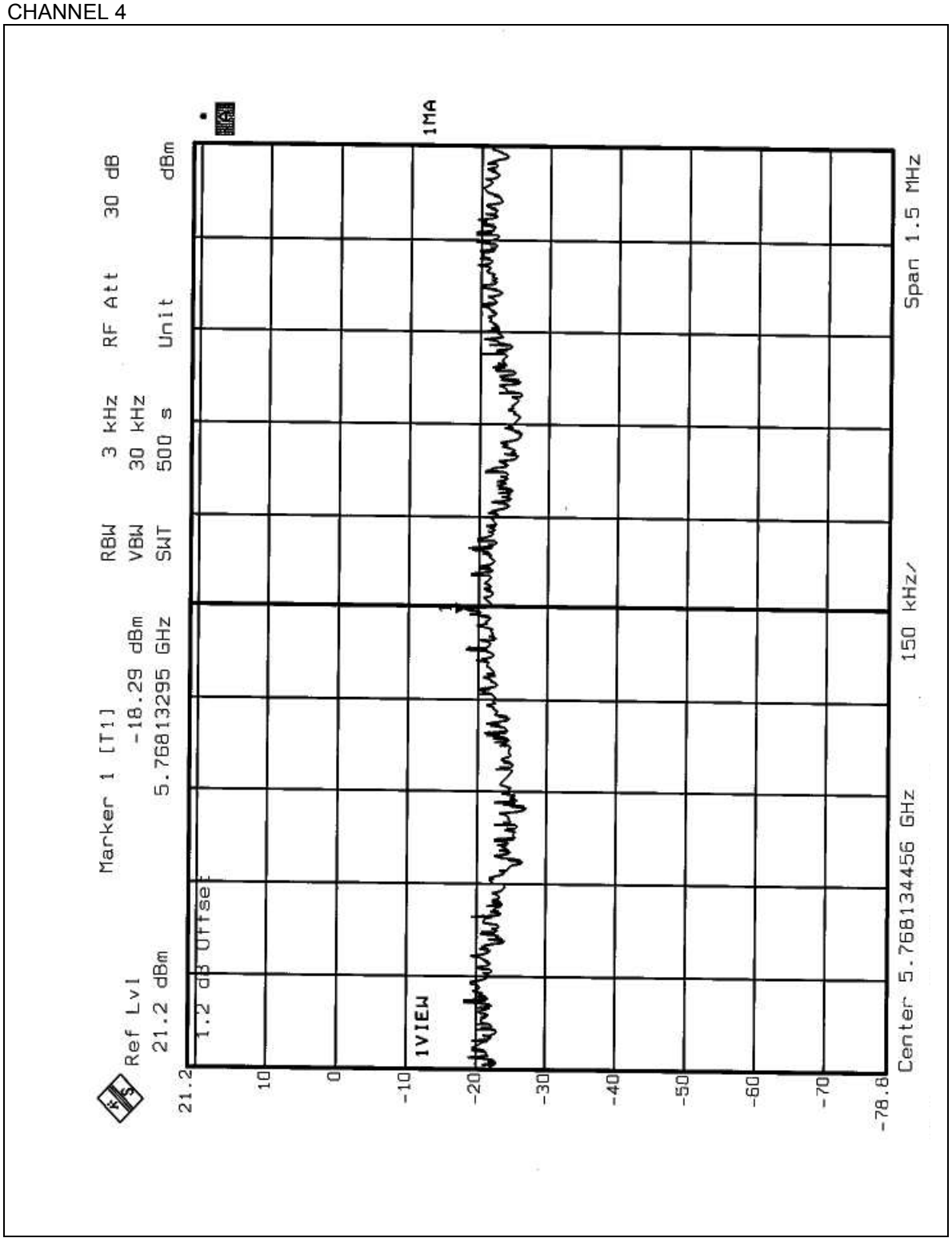
CHANNEL 13


Ref Lvl
21.2 dBm
1.2 dB Offset
Marker 1 [T1]
-13.30 dBm
5.82745541 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8
Center 5.82745691 4 GHz
150 kHz/
Span 1.5 MHz

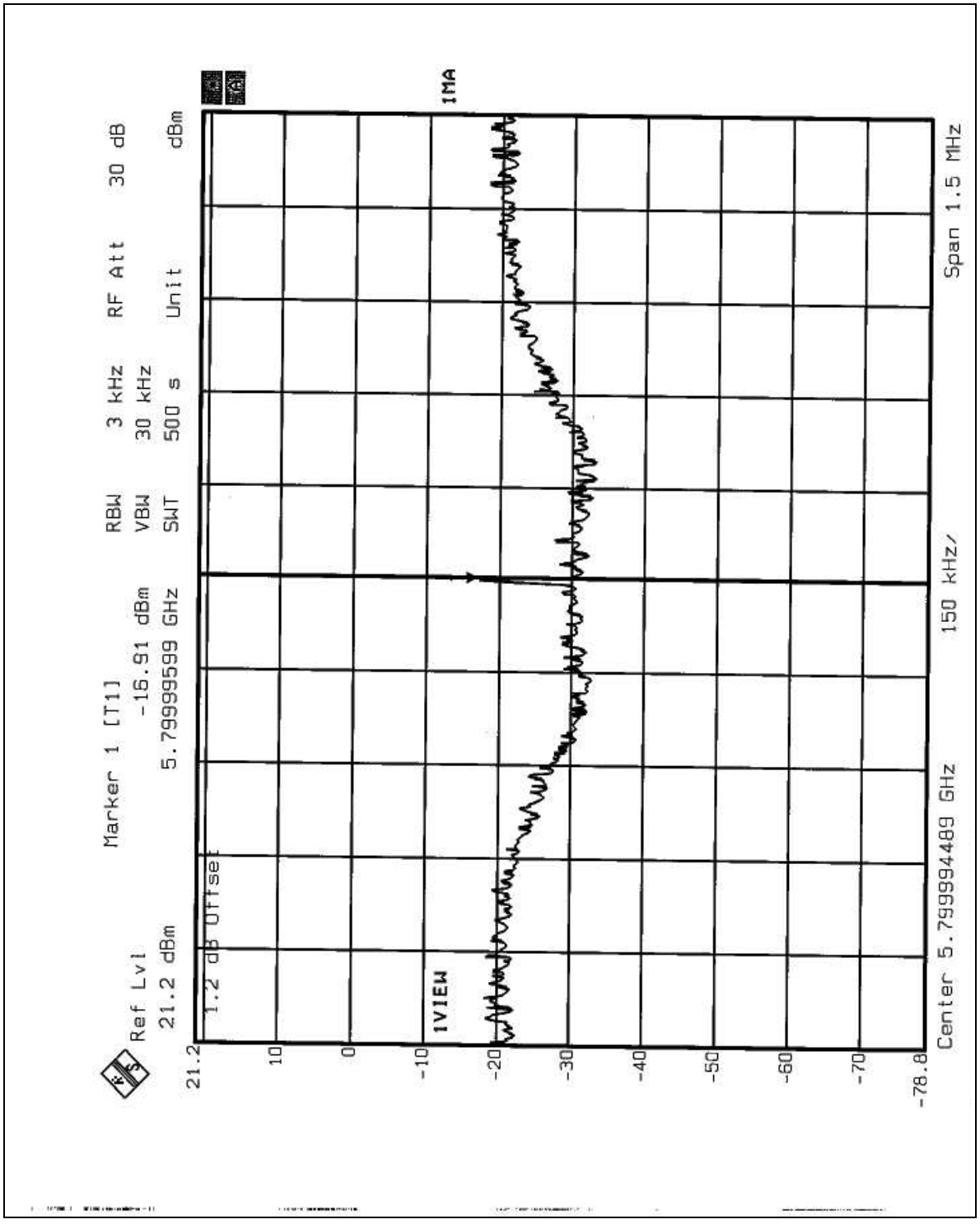
EUT	Wireless LAN and Mini PCI	**MODEL**	A13QBF
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH, 1005 hPa	**TESTED BY**	Ansen Lei

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 3 kHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
4	5760	-18.29	8	PASS
5	5800	-16.91	8	PASS

CHANNEL 4


Marker 1 [T1]
-18.29 dBm
5.76813295 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
Ref Lvl
21.2 dBm
1.2 dB Offset
1VIEW
1MA
Center 5.76813456 GHz
150 kHz/
Span 1.5 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

CHANNEL 5


Ref Lvl
21.2 dBm
1.2 dB Offset
Marker 1 [T1]
-16.91 dBm
5.79999599 GHz
RBW 3 kHz
VBW 30 kHz
SWT 500 s
RF Att 30 dB
Unit dBm
1MA
1VIEW
Center 5.799994489 GHz
150 kHz/
Span 1.5 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

4.11 BAND EDGES MEASUREMENT

4.11.1 LIMITS OF BAND EDGES MEASUREMENT

Below –20dB of the highest emission level of operating band (in 100KHz Resolution Bandwidth).

4.11.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSEK30	100049	July 24, 2003

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

4.11.3 TEST PROCEDURE

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

4.11.4 DEVIATION FROM TEST STANDARD

No deviation

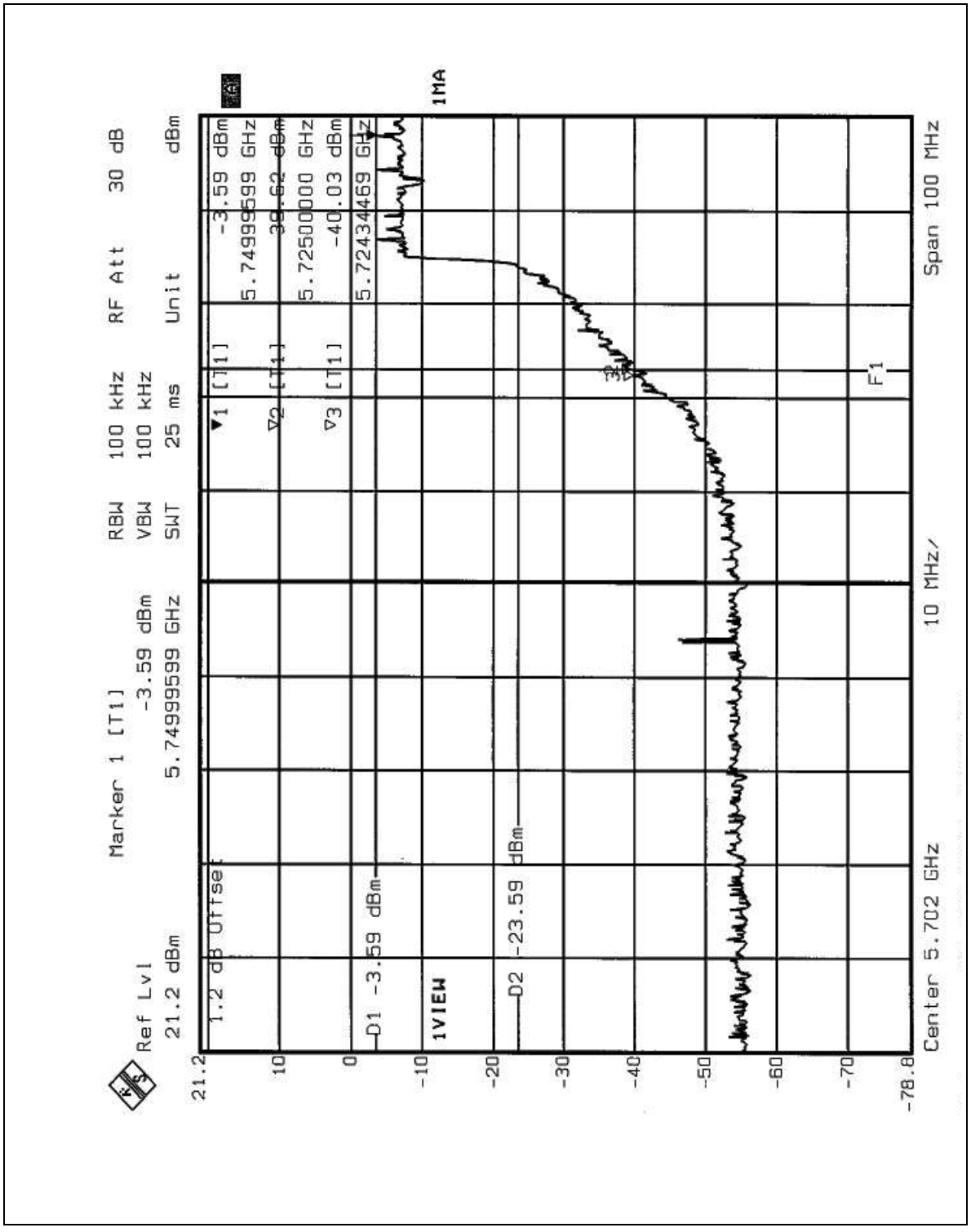
4.11.5 EUT OPERATING CONDITION

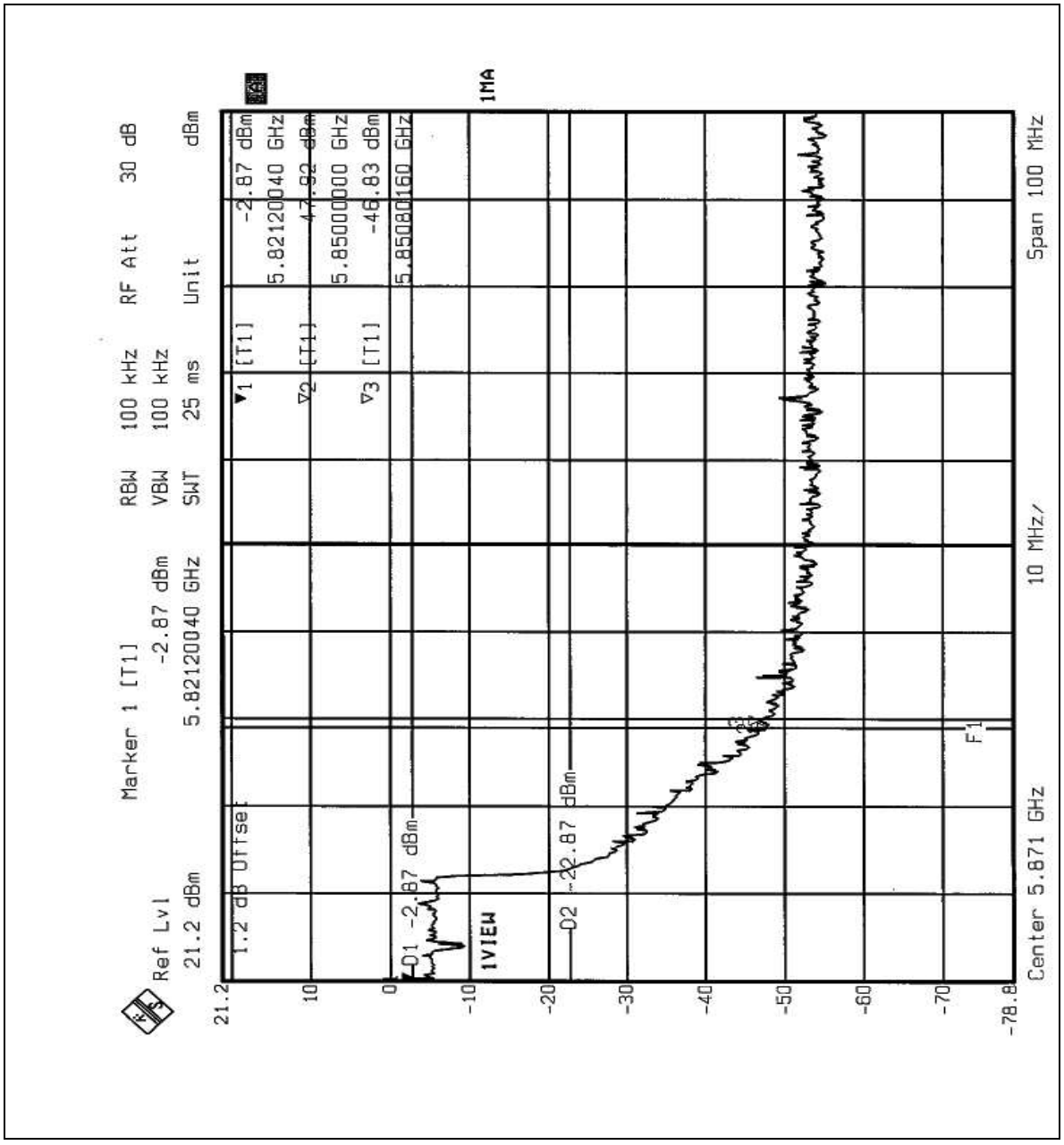
Same as Item 4.8.6

4.11.6 TEST RESULTS

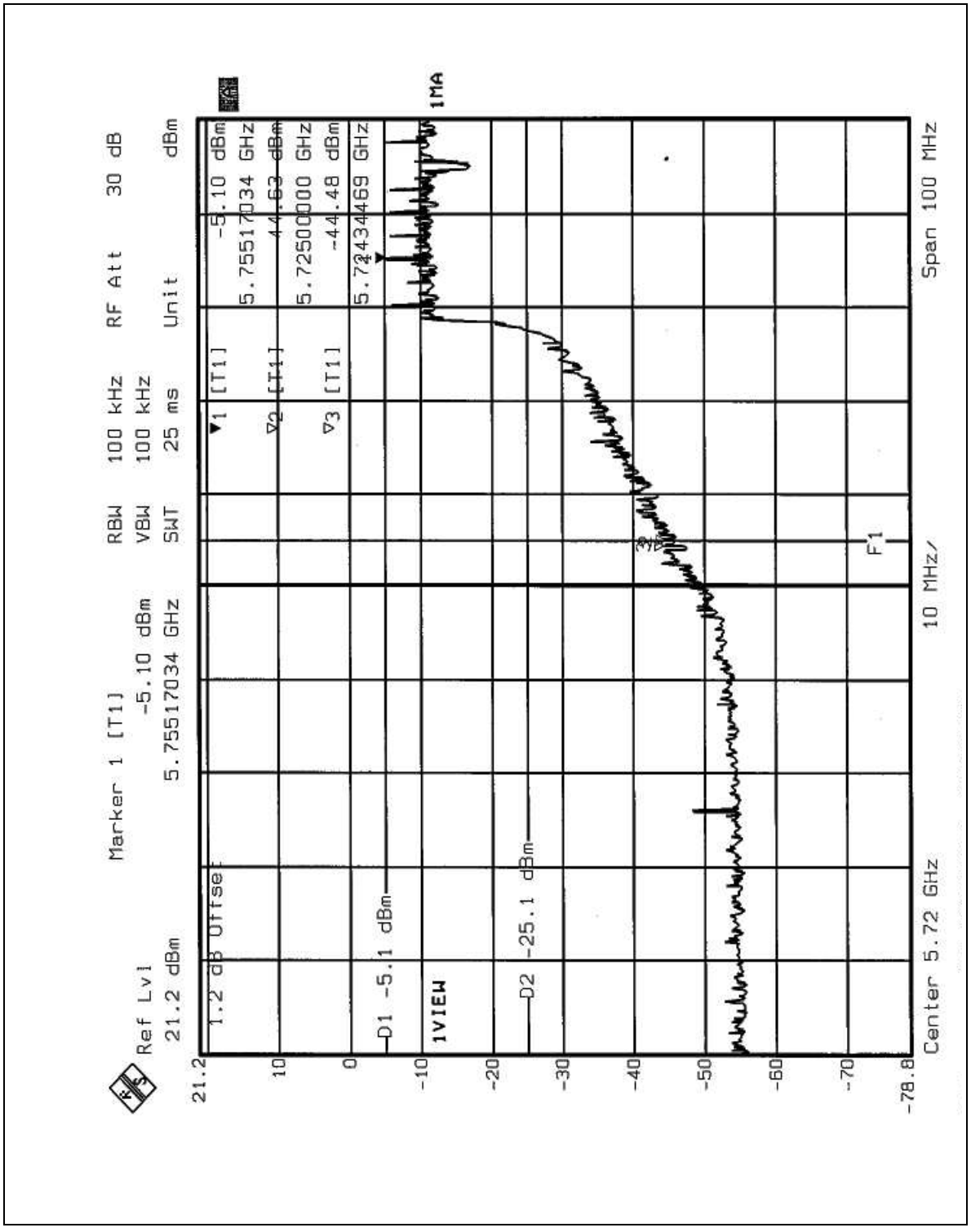
The spectrum plots are attached on the following pages. D2 line indicates the highest level, D1 line indicates the 20dB offset below D2. It shows compliance with the requirement in part 15.247(C).

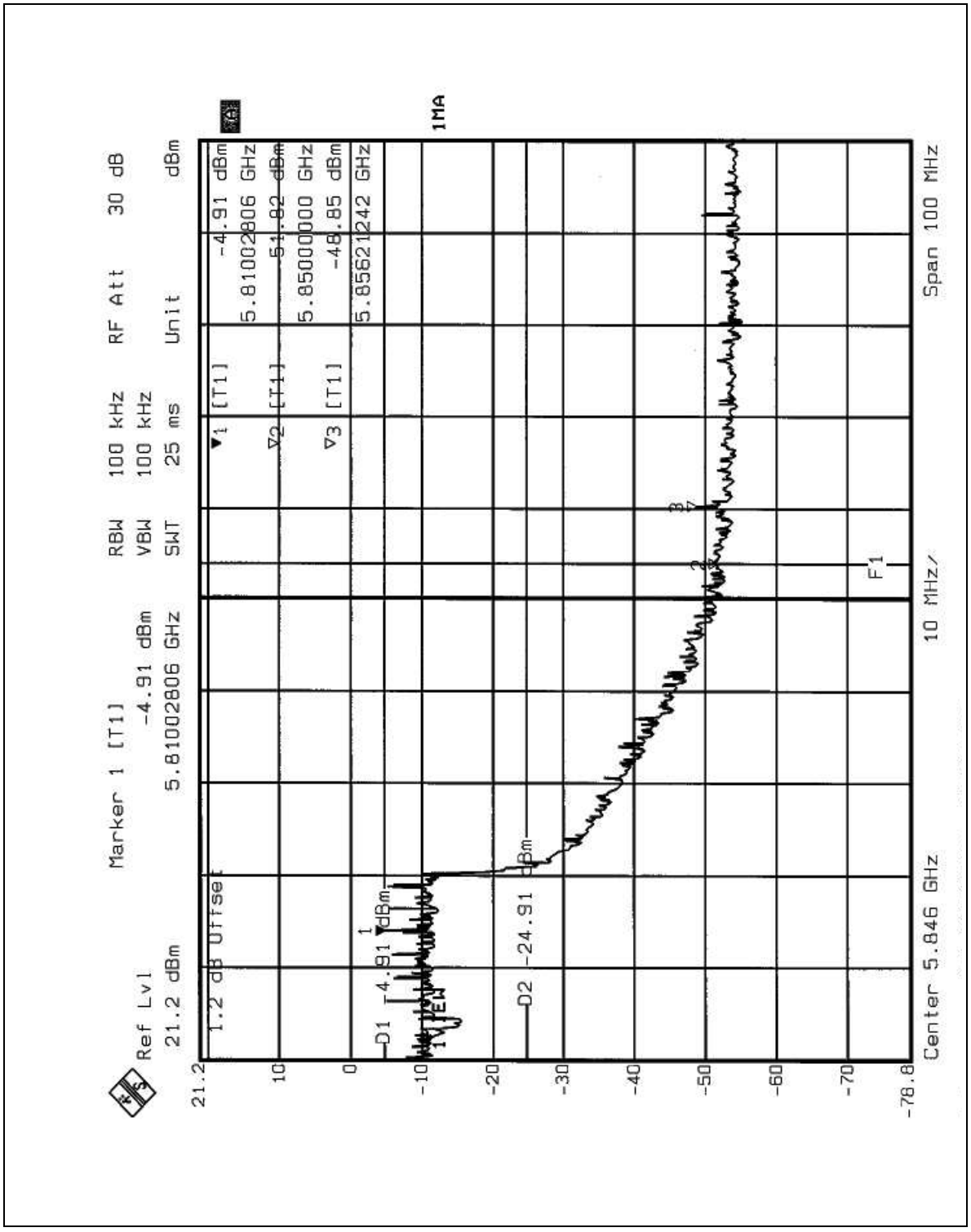
Normal Mode


Marker 1 [T1]
-3.59 dBm
5.74999599 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
1MA
1VIEW
D1 -3.59 dBm
D2 -23.59 dBm
Center 5.702 GHz
10 MHz/
Span 100 MHz
F1


Ref Lvl
21.2 dBm
1.2 dB Offset
Marker 1 [T1]
-2.87 dBm
5.82120040 GHz
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
1 [T1] -2.87 dBm 5.82120040 GHz
2 [T1] 47.92 dBm 5.85000000 GHz
3 [T1] -46.83 dBm 5.85080160 GHz
1MA
1VIEW
D1 -2.87 dBm
D2 -22.87 dBm
F1
Center 5.871 GHz
10 MHz/
Span 100 MHz
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8

Turbo Mode


Marker 1 [T1]
-5.10 dBm
5.75517034 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
1 [T1] -5.10 dBm 5.75517034 GHz
2 [T1] 44.63 dBm 5.72500000 GHz
3 [T1] -44.48 dBm 5.72434469 GHz
D1 -5.1 dBm
D2 -25.1 dBm
1VIEW
1MA
Center 5.72 GHz
10 MHz/
Span 100 MHz
F1
21.2
10
0
-10
-20
-30
-40
-50
-60
-70
-78.8


Marker 1 [T1]
-4.91 dBm
5.81002806 GHz
Ref Lvl
21.2 dBm
1.2 dB Offset
RBW 100 kHz
VBW 100 kHz
SWT 25 ms
RF Att 30 dB
Unit dBm
1MA
1 [T1] -4.91 dBm 5.81002806 GHz
2 [T1] -51.82 dBm 5.85000000 GHz
3 [T1] -48.85 dBm 5.85621242 GHz
D1 -4.91 dBm
D2 -24.91 dBm
Center 5.846 GHz
10 MHz/
Span 100 MHz

4.12 ANTENNA REQUIREMENT

4.12.1 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.

4.12.2 ANTENNA CONNECTED CONSTRUCTION

The antenna used in this product is Omni Directional antenna with MMCX connector. The maximum Gain of the antenna is 6dBi

5. PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

RADIATED EMISSION TEST

6. INFORMATION ON THE TESTING LABORATORIES

We, ADT Corp., were founded in 1988 to provide our best service in EMC and Safety consultation. Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025, Guide 25 or EN 45001:

USA	FCC, NVLAP, UL
Germany	TUV Rheinland
Japan	VCCI
New Zealand	MoC
Norway	NEMKO
R.O.C.	BSMI, DGT, CNLA

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.

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Email: service@mail.adt.com.tw
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The address and road map of all our labs can be found in our web site also.