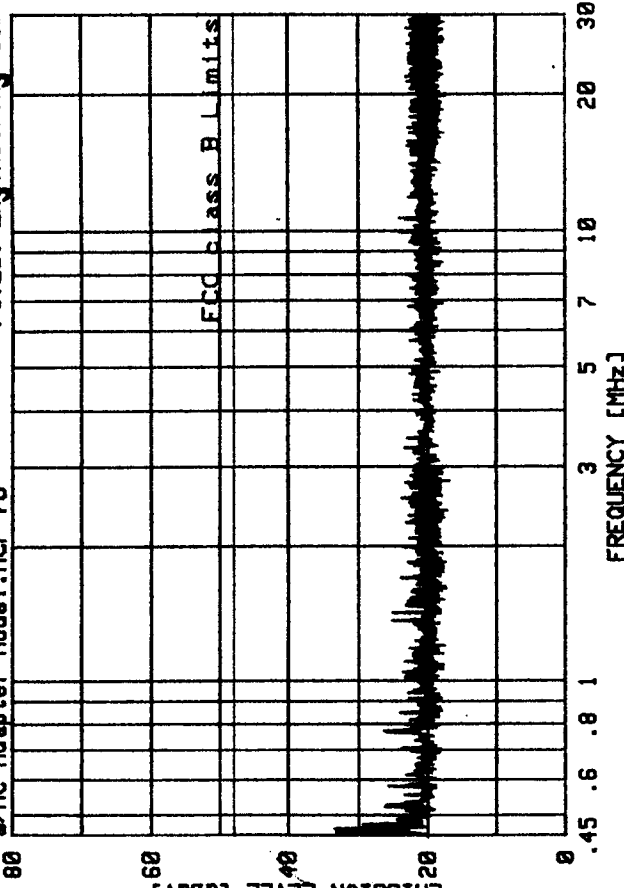
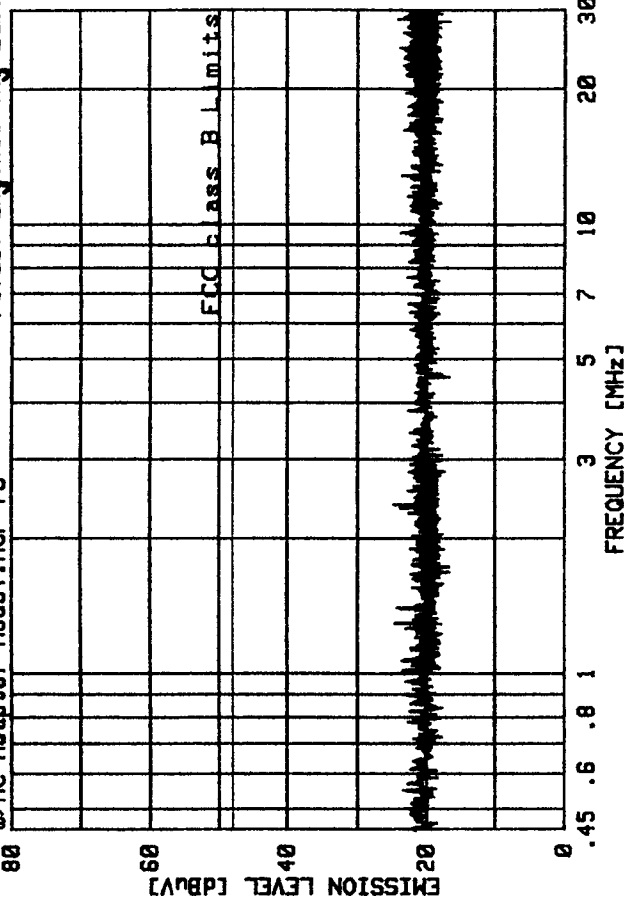


ATTACHMENT D – TEST PLOTS



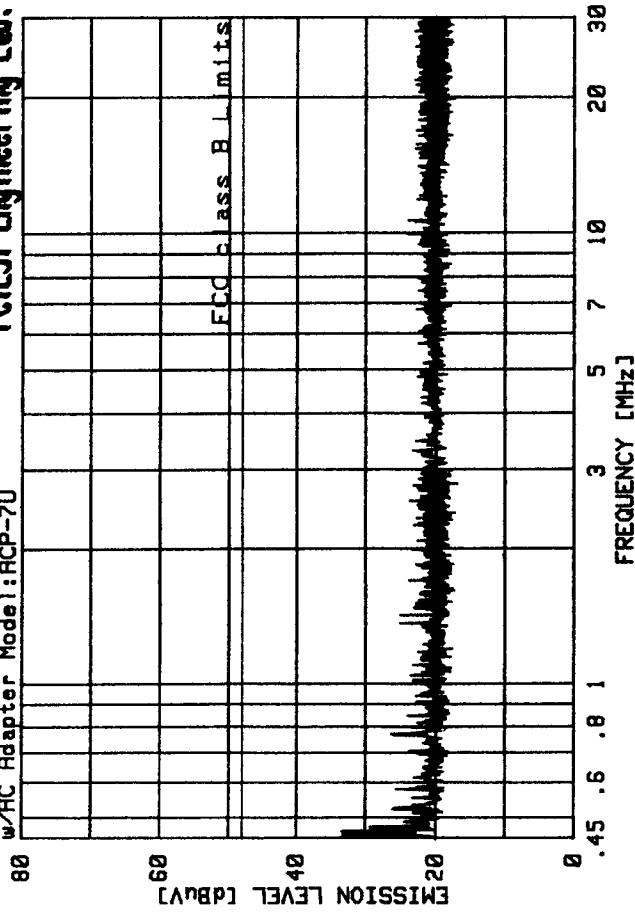
No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV Emission [dB]	Limit [dBuV]	Margin [dB]
1	.457	25.12	-	-	48.00	-22.88
2	.459	25.87	-	-	48.00	-22.13
3	.744	23.98	-	-	48.00	-24.02
4	.510	25.29	-	-	48.00	-22.71
5	.553	24.84	-	-	48.00	-23.16
6	1.347	22.31	-	-	48.00	-25.69
7	1.430	22.53	-	-	48.00	-25.47
8	.461	25.42	-	-	48.00	-22.58
9	9.975	22.34	-	-	48.00	-25.66
10	.843	23.42	-	-	48.00	-24.58



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV Emission [dB]	Limit [dBuV]	Margin [dB]
1	2.286	21.60	-	-	48.00	-26.40
2	1.292	22.24	-	-	48.00	-25.76
3	1.374	22.37	-	-	48.00	-25.63
4	20.701	21.15	-	-	48.00	-26.85
5	24.770	21.25	-	-	48.00	-26.75
6	2.301	21.72	-	-	48.00	-26.28
7	9.640	21.20	-	-	48.00	-26.80
8	1.072	22.67	-	-	48.00	-25.33
9	12.792	21.27	-	-	48.00	-26.73
10	.995	23.08	-	-	48.00	-24.92

NOKIA Model:6180i Line B
w/RC Adapter Model:RCP-7U

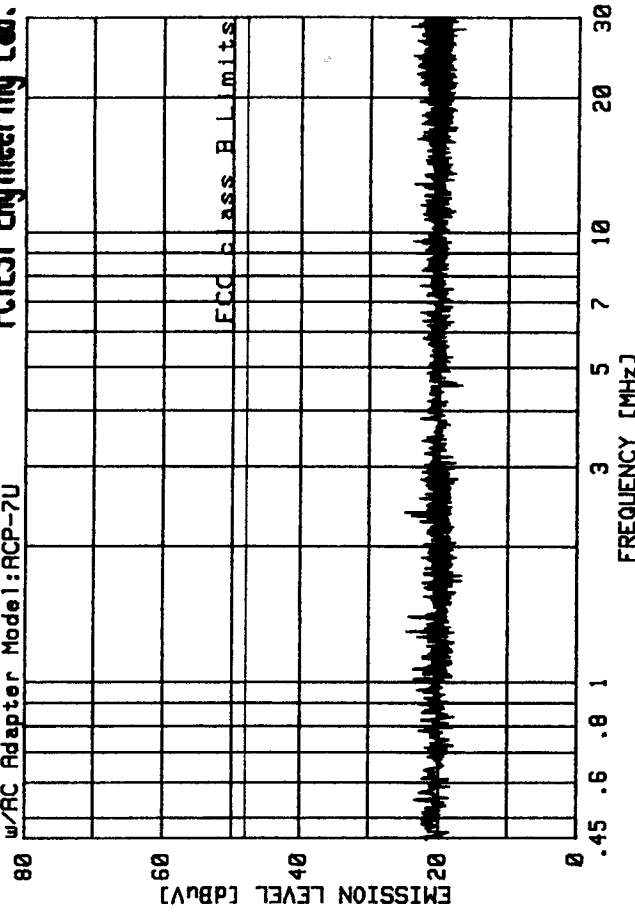
PCTEST Engineering Lab.



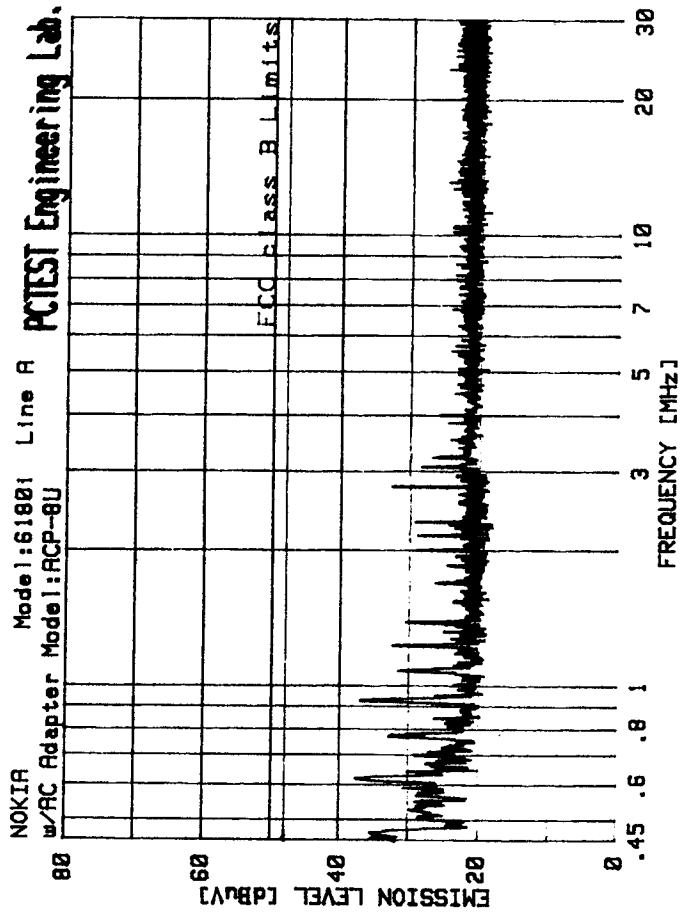
No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV Emission [dB]	Limit [dBuV]	Margin [dB]
1	.457	25.12	-	-	25.12	48.00
2	.459	25.87	-	-	25.87	48.00
3	.744	23.98	-	-	23.98	48.00
4	.510	25.29	-	-	25.29	48.00
5	.553	24.84	-	-	24.84	48.00
6	1.347	22.31	-	-	22.31	48.00
7	1.430	22.53	-	-	22.53	48.00
8	.461	25.42	-	-	25.42	48.00
9	9.975	22.34	-	-	22.34	48.00
10	.843	23.42	-	-	23.42	48.00

NOKIA Model:6180i Line B
w/RC Adapter Model:RCP-7U

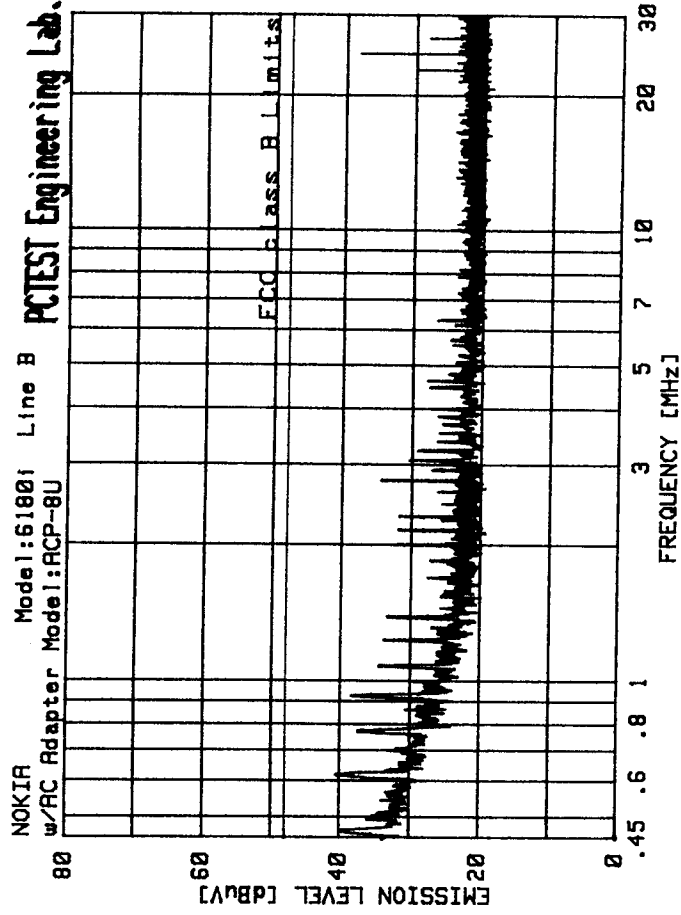
PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV Emission [dB]	Limit [dBuV]	Margin [dB]
1	2.286	21.60	-	-	21.60	48.00
2	1.292	22.24	-	-	22.24	48.00
3	1.374	22.37	-	-	22.37	48.00
4	28.701	21.15	-	-	21.15	48.00
5	24.770	21.25	-	-	21.25	48.00
6	2.301	21.72	-	-	21.72	48.00
7	9.640	21.20	-	-	21.20	48.00
8	1.072	22.67	-	-	22.67	48.00
9	12.792	21.27	-	-	21.27	48.00
10	.995	23.08	-	-	23.08	48.00



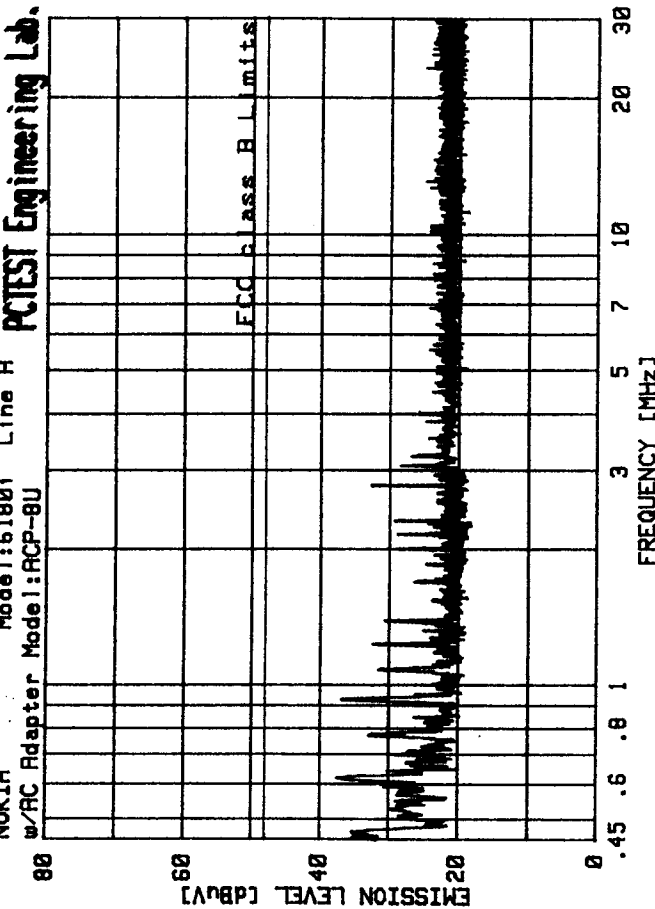
No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	.614	37.01	-	-	37.01	48.00	-10.99
2	.923	35.94	-	-	35.94	48.00	-12.06
3	.460	34.57	-	-	34.57	48.00	-13.43
4	.461	34.52	-	-	34.52	48.00	-13.48
5	.769	32.09	-	-	32.09	48.00	-15.91
6	2.776	31.47	-	-	31.47	48.00	-16.53
7	1.231	30.85	-	-	30.85	48.00	-17.15
8	1.077	30.37	-	-	30.37	48.00	-17.63
9	1.385	30.07	-	-	30.07	48.00	-17.93
10	.508	25.56	-	-	25.56	48.00	-22.44



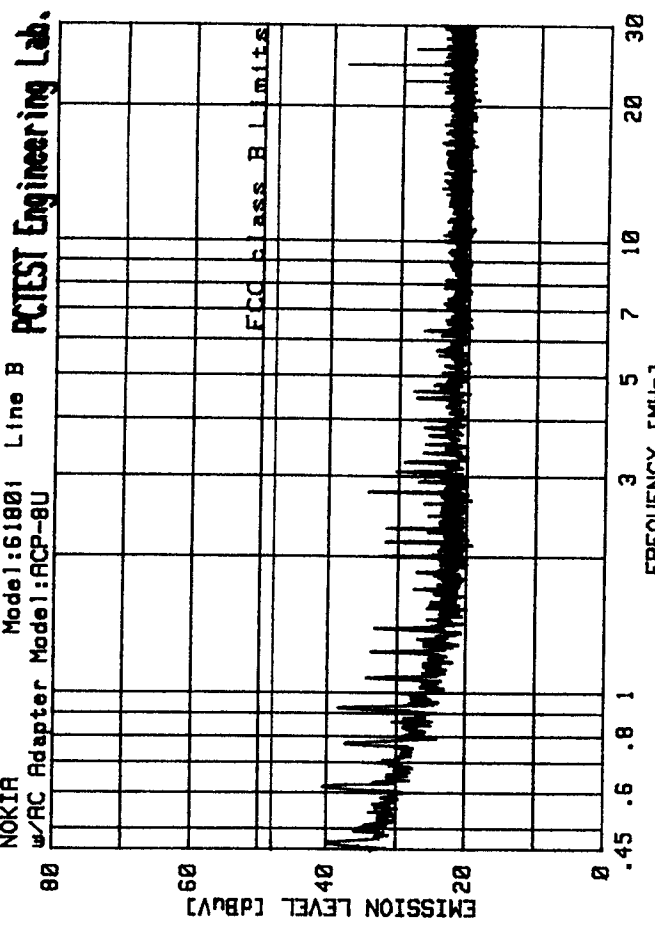
No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	.616	39.94	-	-	39.94	48.00	-8.06
2	.450	43.64	-	-	43.64	48.00	-4.36
3	.922	37.68	-	-	37.68	48.00	-10.32
4	24.633	21.76	-	-	21.76	48.00	-26.24
5	.768	36.36	-	-	36.36	48.00	-11.64
6	.515	42.11	-	-	42.11	48.00	-5.89
7	1.075	34.53	-	-	34.53	48.00	-13.47
8	2.773	33.66	-	-	33.66	48.00	-14.34
9	.545	30.03	-	-	30.03	48.00	-17.97
10	1.230	31.94	-	-	31.94	48.00	-16.06

NOKIA Model: 61801 Line A
w/RC Adapter Model: RCP-8U

NOKIA Model: 61801 Line B
w/RC Adapter Model: RCP-8U



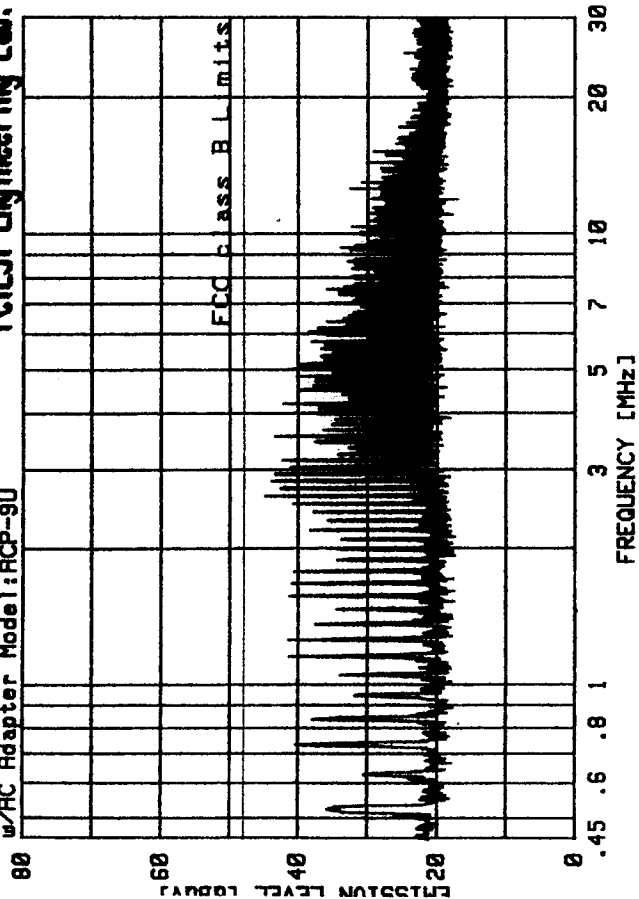
No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	.614	37.01	-	-	37.01	48.00	-10.99
2	.923	35.94	-	-	35.94	48.00	-12.06
3	.460	34.57	-	-	34.57	48.00	-13.43
4	.461	34.52	-	-	34.52	48.00	-13.48
5	.769	32.09	-	-	32.09	48.00	-15.91
6	2.776	31.47	-	-	31.47	48.00	-16.53
7	1.231	30.85	-	-	30.85	48.00	-17.15
8	1.077	30.37	-	-	30.37	48.00	-17.63
9	1.385	30.07	-	-	30.07	48.00	-17.93
10	.508	25.56	-	-	25.56	48.00	-22.44



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	.616	39.94	-	-	39.94	48.00	-8.06
2	.450	43.64	-	-	43.64	48.00	-4.36
3	.922	37.68	-	-	37.68	48.00	-10.32
4	24.633	21.76	-	-	21.76	48.00	-26.24
5	.768	36.36	-	-	36.36	48.00	-11.64
6	.515	42.11	-	-	42.11	48.00	-5.89
7	1.075	34.53	-	-	34.53	48.00	-13.47
8	2.773	33.66	-	-	33.66	48.00	-14.34
9	.545	30.03	-	-	30.03	48.00	-17.97
10	1.230	31.94	-	-	31.94	48.00	-16.06

NOKIA Model:6180i Line B
w/RC Adapter Model:ACP-GU

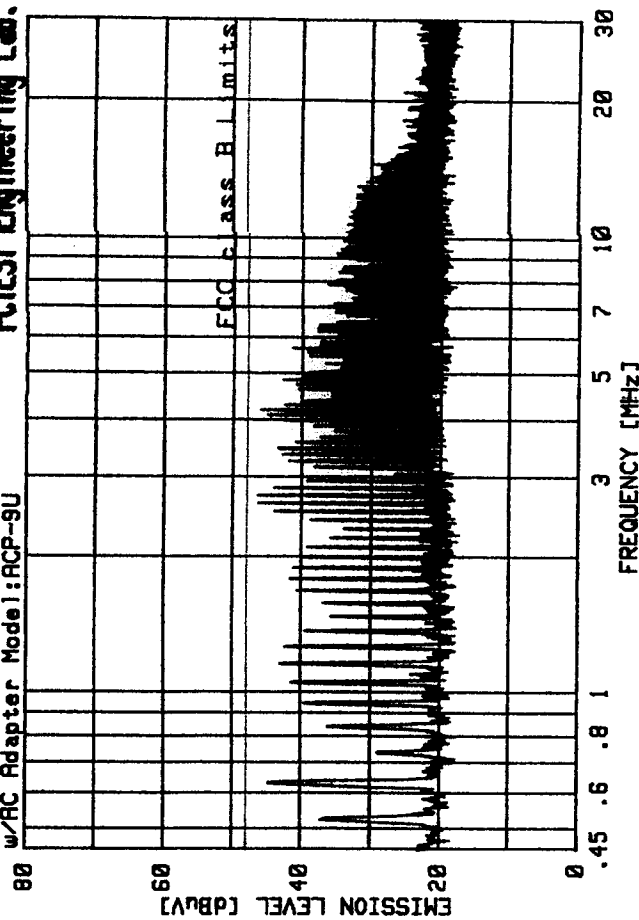
PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV Emission [dB]	Limit [dBuV]	Margin [dB]
1	2.635	37.56	-	-	48.00	-10.44
2	2.851	39.71	-	-	48.00	-8.29
3	3.590	35.18	-	-	48.00	-12.82
4	2.952	39.47	-	-	48.00	-8.53
5	2.747	34.37	-	-	48.00	-13.63
6	3.167	30.76	-	-	48.00	-17.24
7	4.216	36.35	-	-	48.00	-11.65
8	1.266	35.72	-	-	48.00	-12.28
9	1.162	30.08	-	-	48.00	-17.92
10	1.581	31.59	-	-	48.00	-16.41

NOKIA Model:6180i Line B
w/RC Adapter Model:ACP-GU

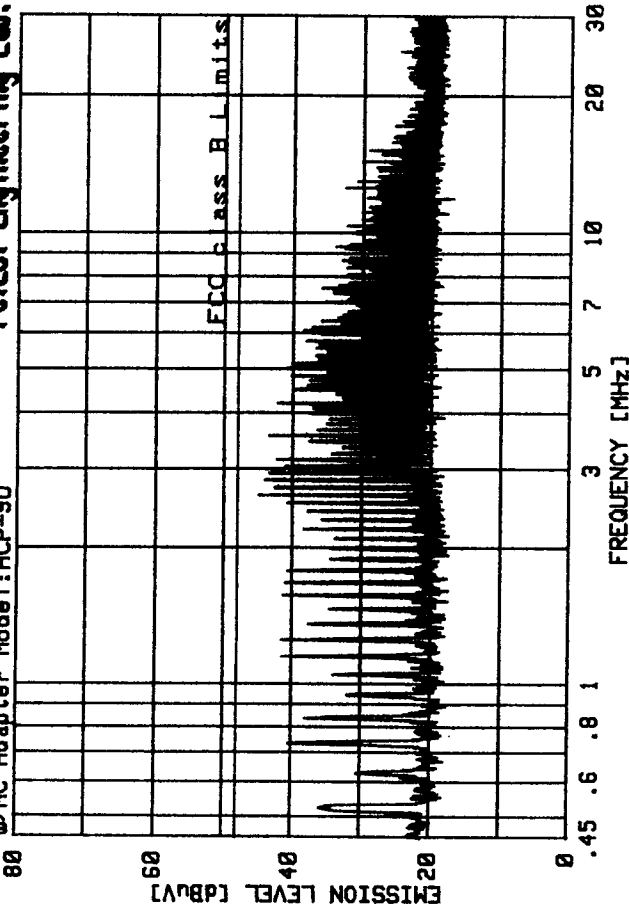
PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV Emission [dB]	Limit [dBuV]	Margin [dB]
1	2.746	43.46	-	-	48.00	-4.54
2	2.641	42.35	-	-	48.00	-5.65
3	4.204	36.33	-	-	48.00	-11.67
4	4.119	32.28	-	-	48.00	-15.72
5	.632	39.52	-	-	48.00	-8.48
6	2.854	42.58	-	-	48.00	-5.42
7	2.522	36.80	-	-	48.00	-11.20
8	3.486	35.63	-	-	48.00	-12.37
9	1.160	39.86	-	-	48.00	-8.14
10	3.366	30.27	-	-	48.00	-17.73

NOKIA Model:6180i Line A
w/AC Adapter Model:RCP-SU

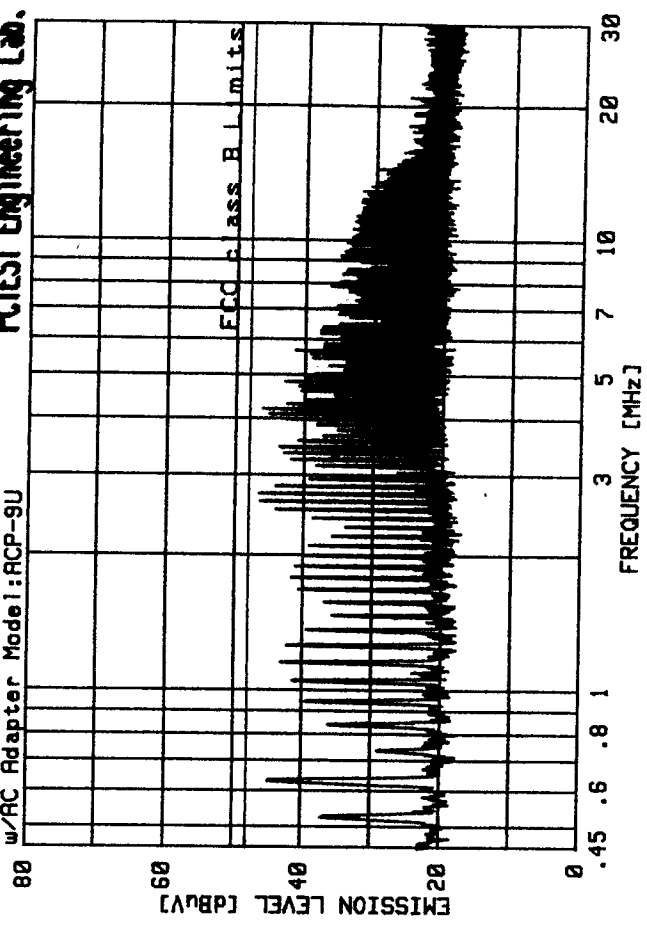
PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	2.635	37.56	-	-	37.56	48.00	-10.44
2	2.851	39.71	-	-	39.71	48.00	-8.29
3	3.590	35.18	-	-	35.18	48.00	-12.82
4	2.952	39.47	-	-	39.47	48.00	-8.53
5	2.747	34.37	-	-	34.37	48.00	-13.63
6	3.167	30.76	-	-	30.76	48.00	-17.24
7	4.216	36.35	-	-	36.35	48.00	-11.65
8	1.266	35.72	-	-	35.72	48.00	-12.28
9	1.162	30.08	-	-	30.08	48.00	-17.92
10	1.581	31.59	-	-	31.59	48.00	-16.41

NOKIA Model:6180i Line B
w/AC Adapter Model:RCP-SU

PCTEST Engineering Lab.



No.	Freq. [MHz]	Quasi-Pk [dBuV]	Average [dBuV]	QP-AV [dB]	Emission [dBuV]	Limit [dBuV]	Margin [dB]
1	2.746	43.46	-	-	43.46	48.00	-4.54
2	2.641	42.35	-	-	42.35	48.00	-5.65
3	4.204	36.33	-	-	36.33	48.00	-11.67
4	4.119	32.28	-	-	32.28	48.00	-15.72
5	.632	39.52	-	-	39.52	48.00	-8.48
6	2.854	42.58	-	-	42.58	48.00	-5.42
7	2.522	36.80	-	-	36.80	48.00	-11.20
8	3.486	35.63	-	-	35.63	48.00	-12.37
9	1.160	39.86	-	-	39.86	48.00	-8.14
10	3.366	30.27	-	-	30.27	48.00	-17.73

PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

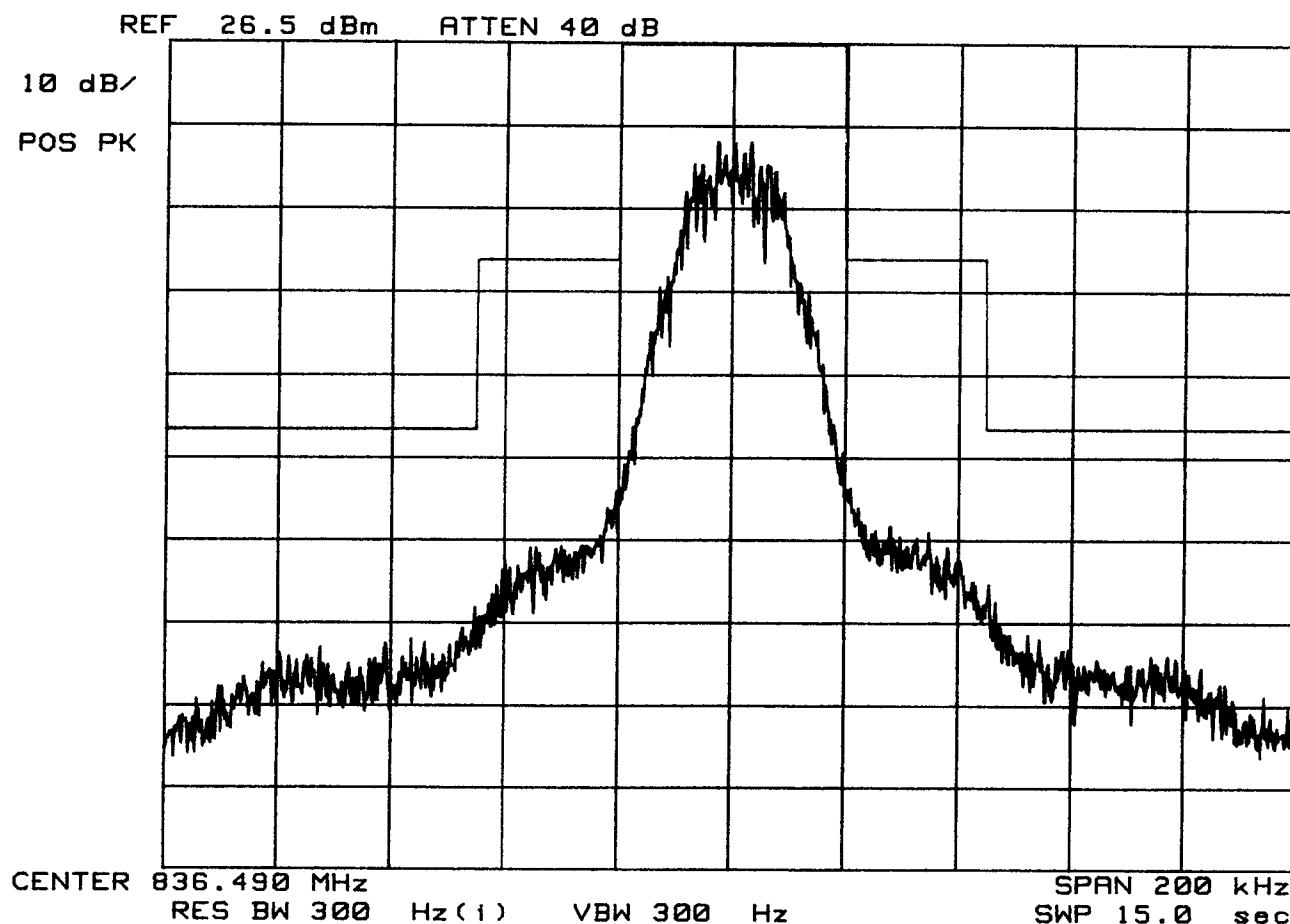
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + DTMF



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

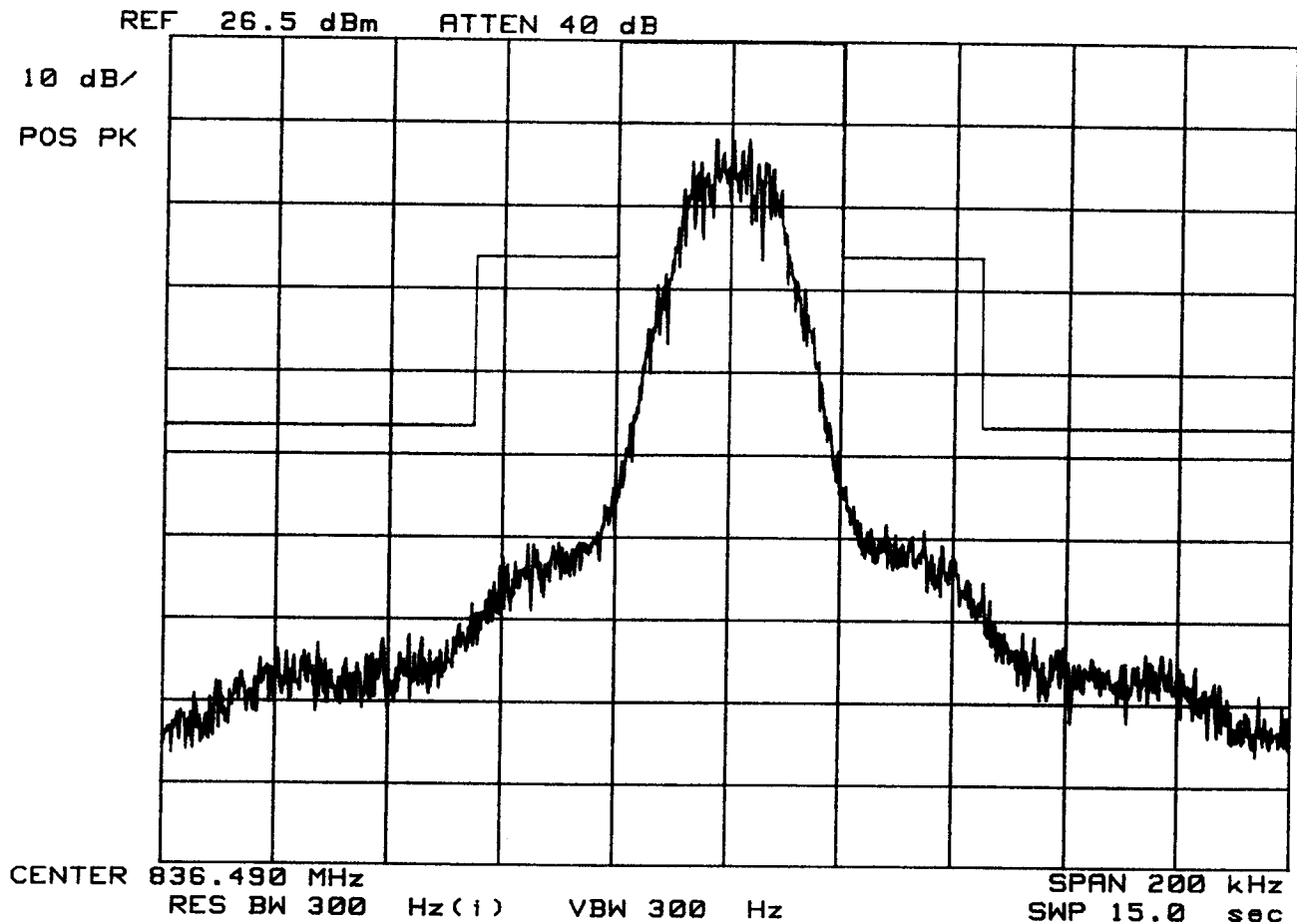
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + DTMF



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

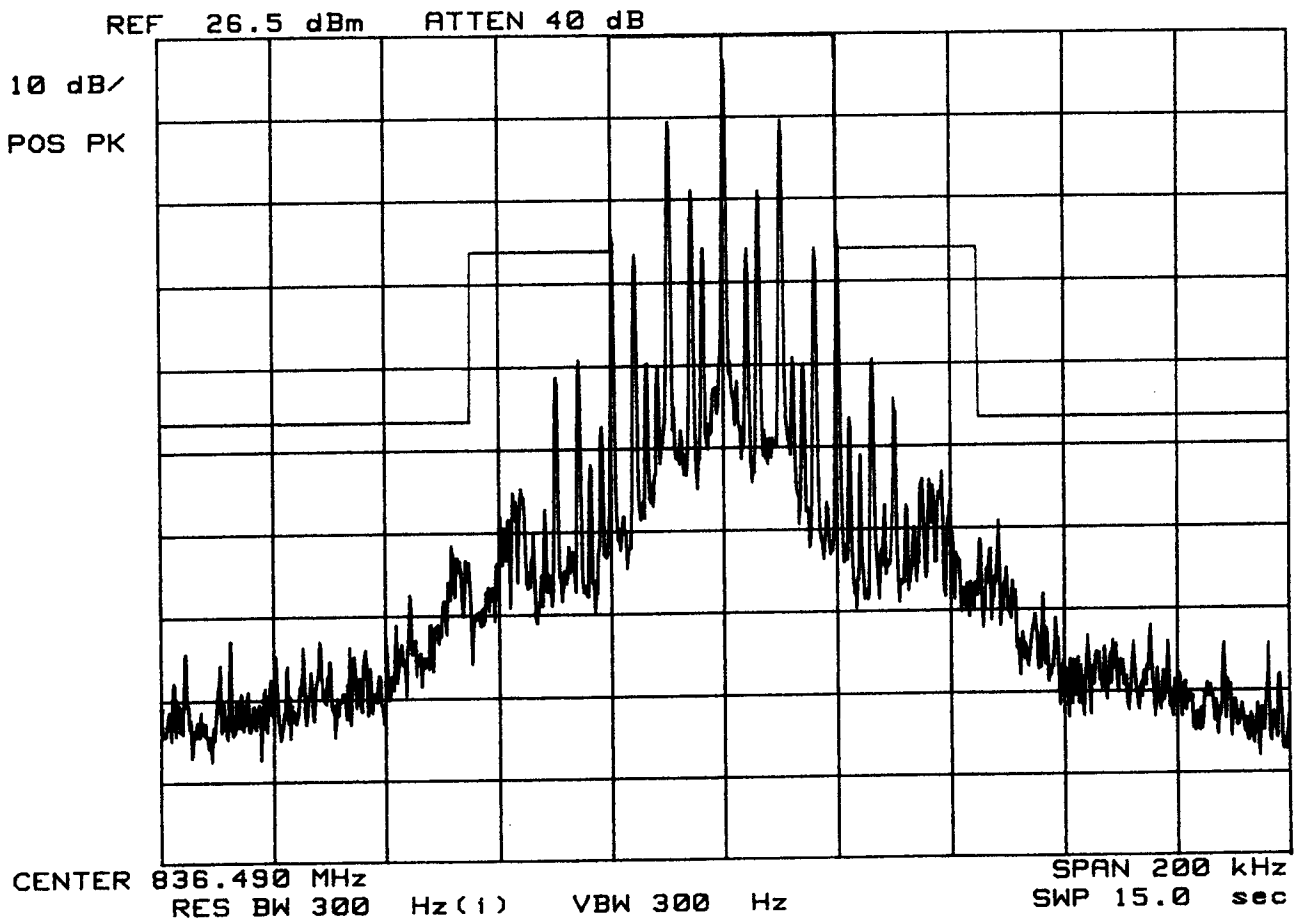
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

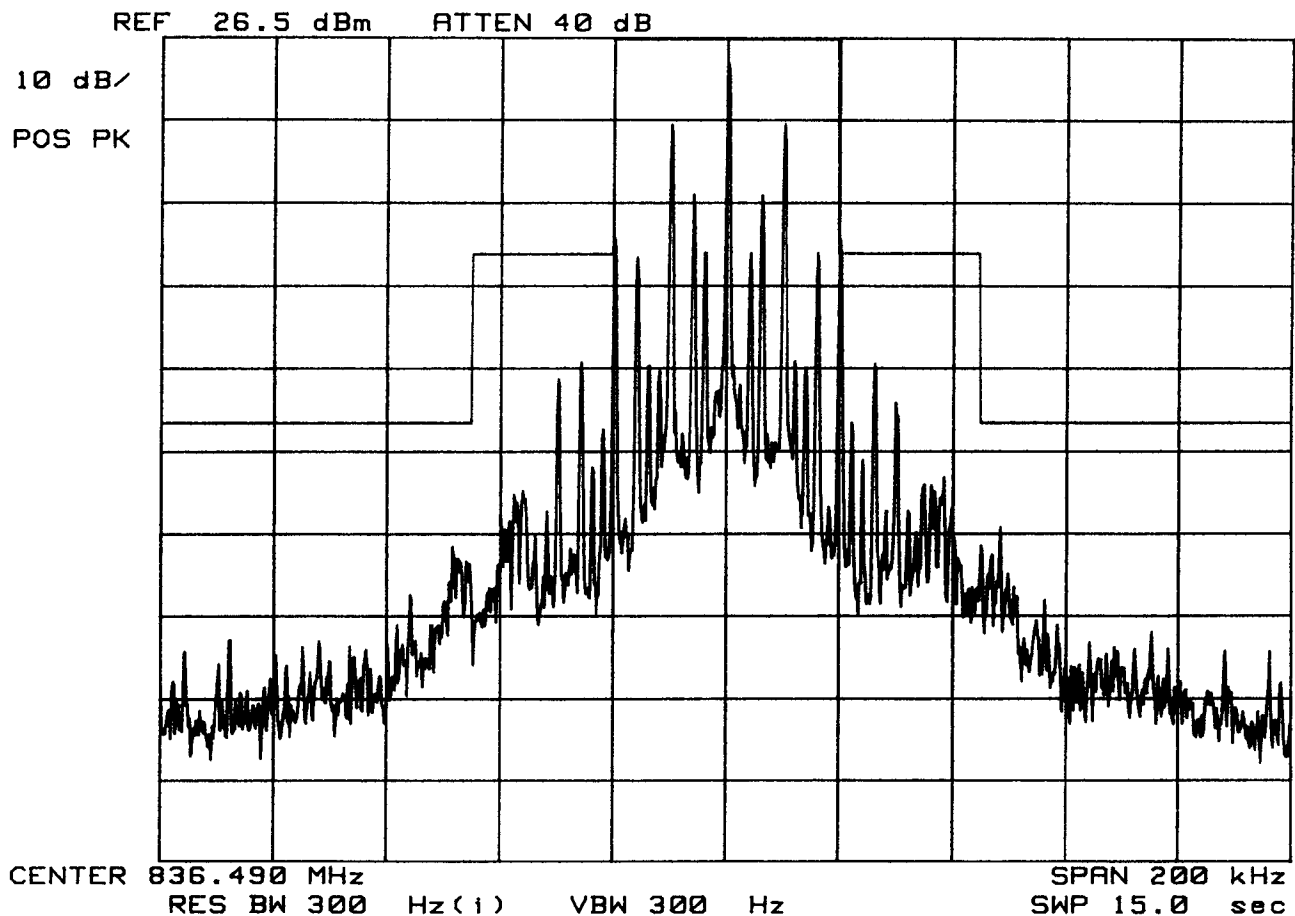
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT + ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

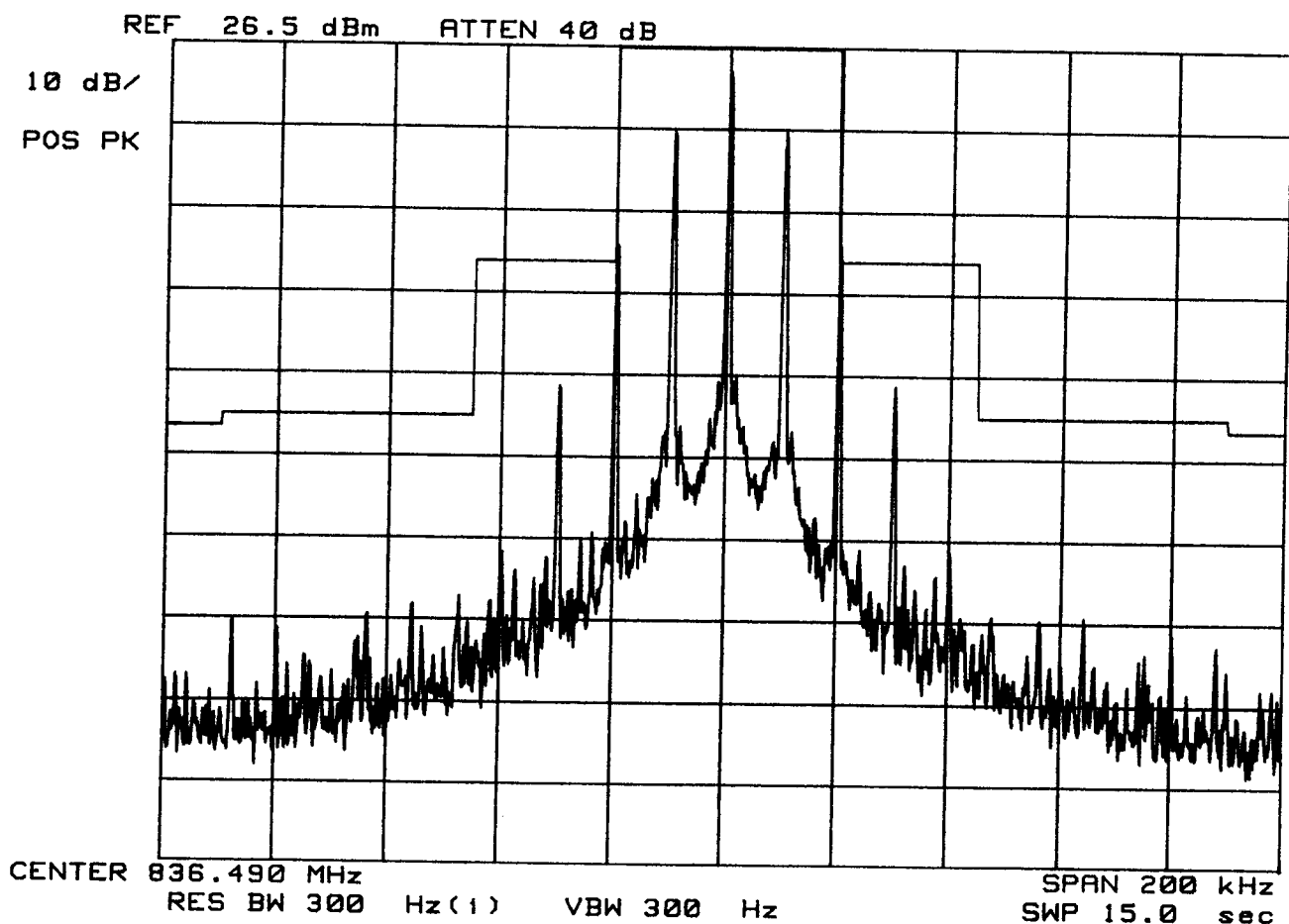
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:ST



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

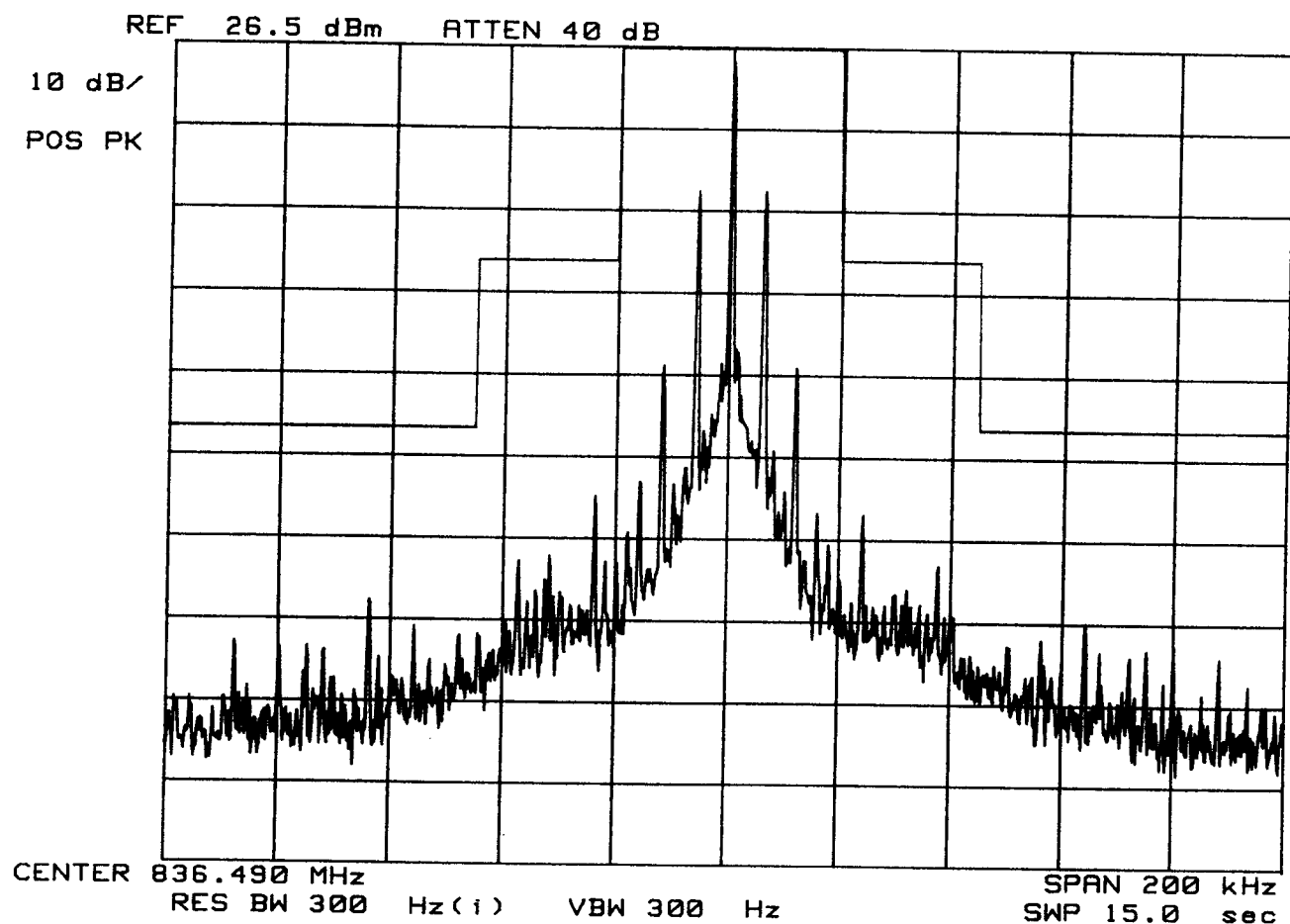
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

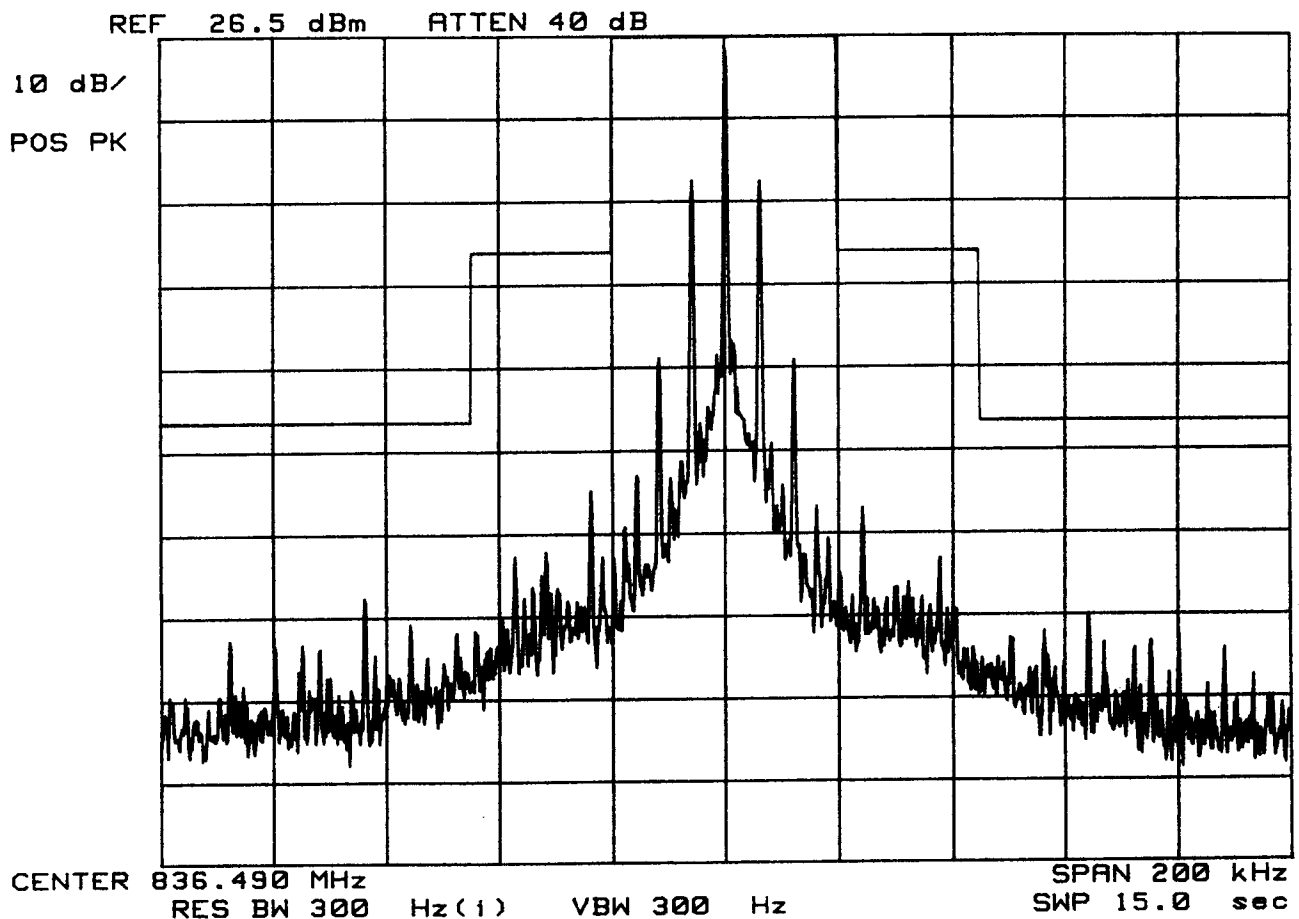
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:SAT



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

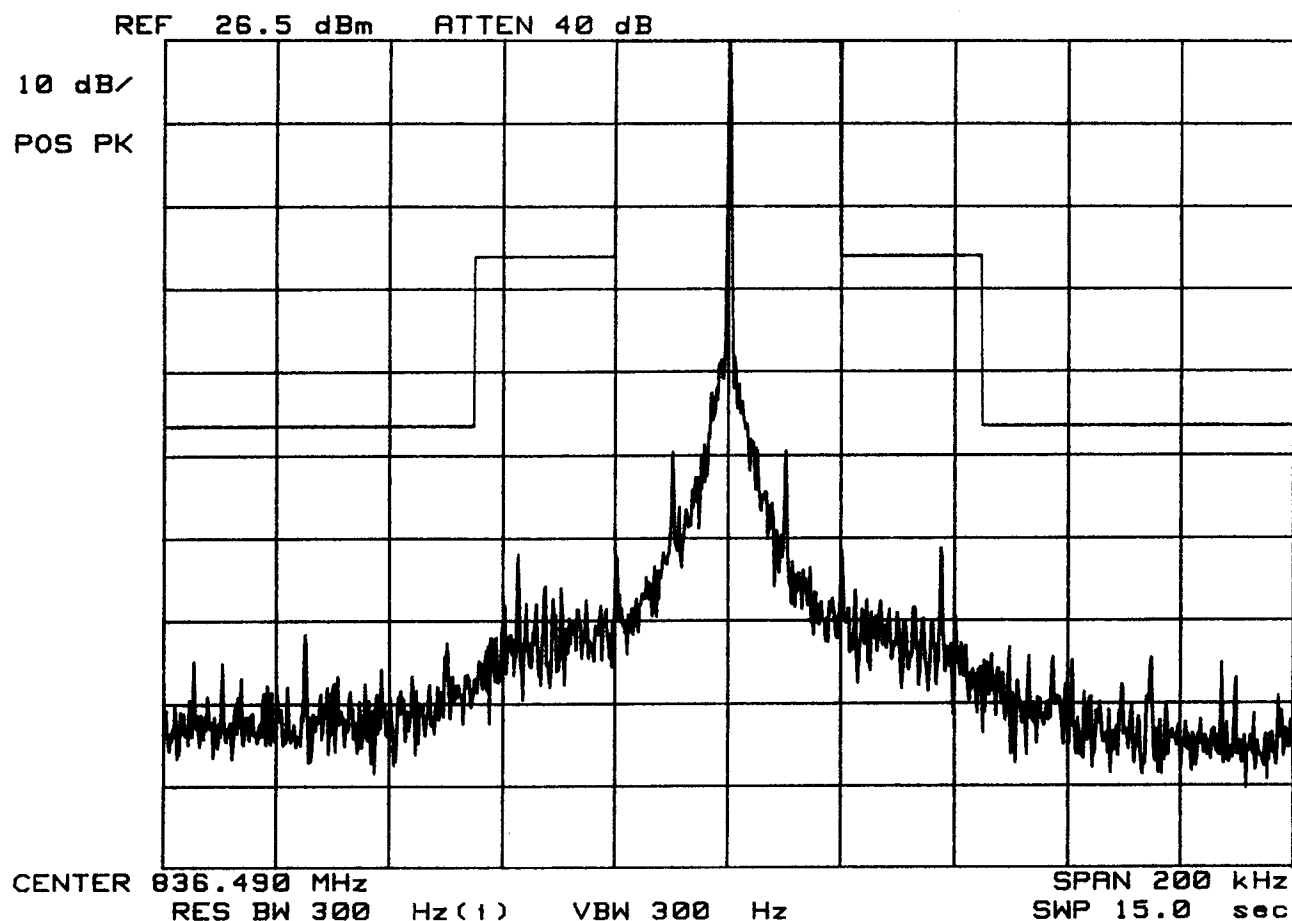
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

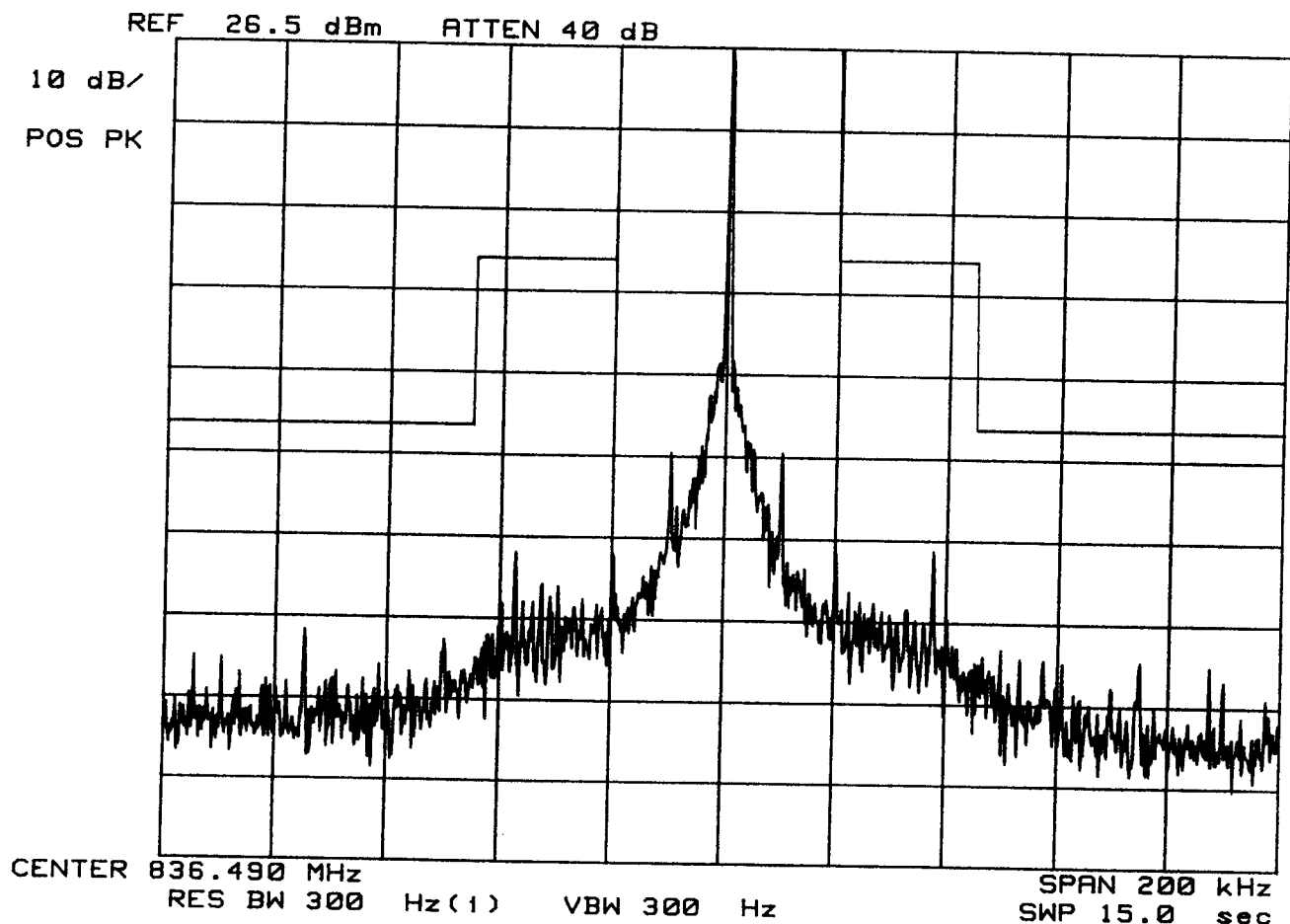
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Unmodulated Signal



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

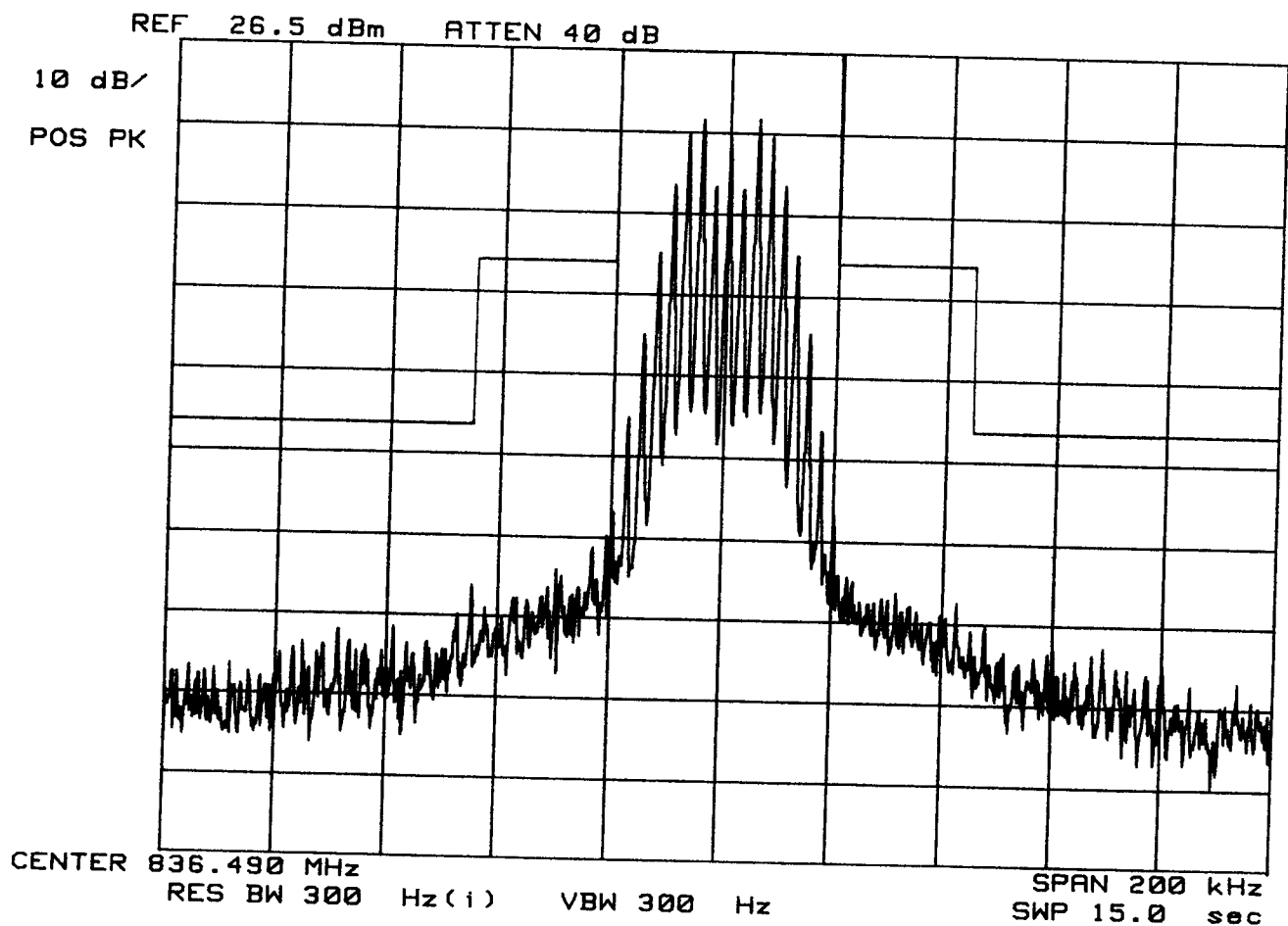
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

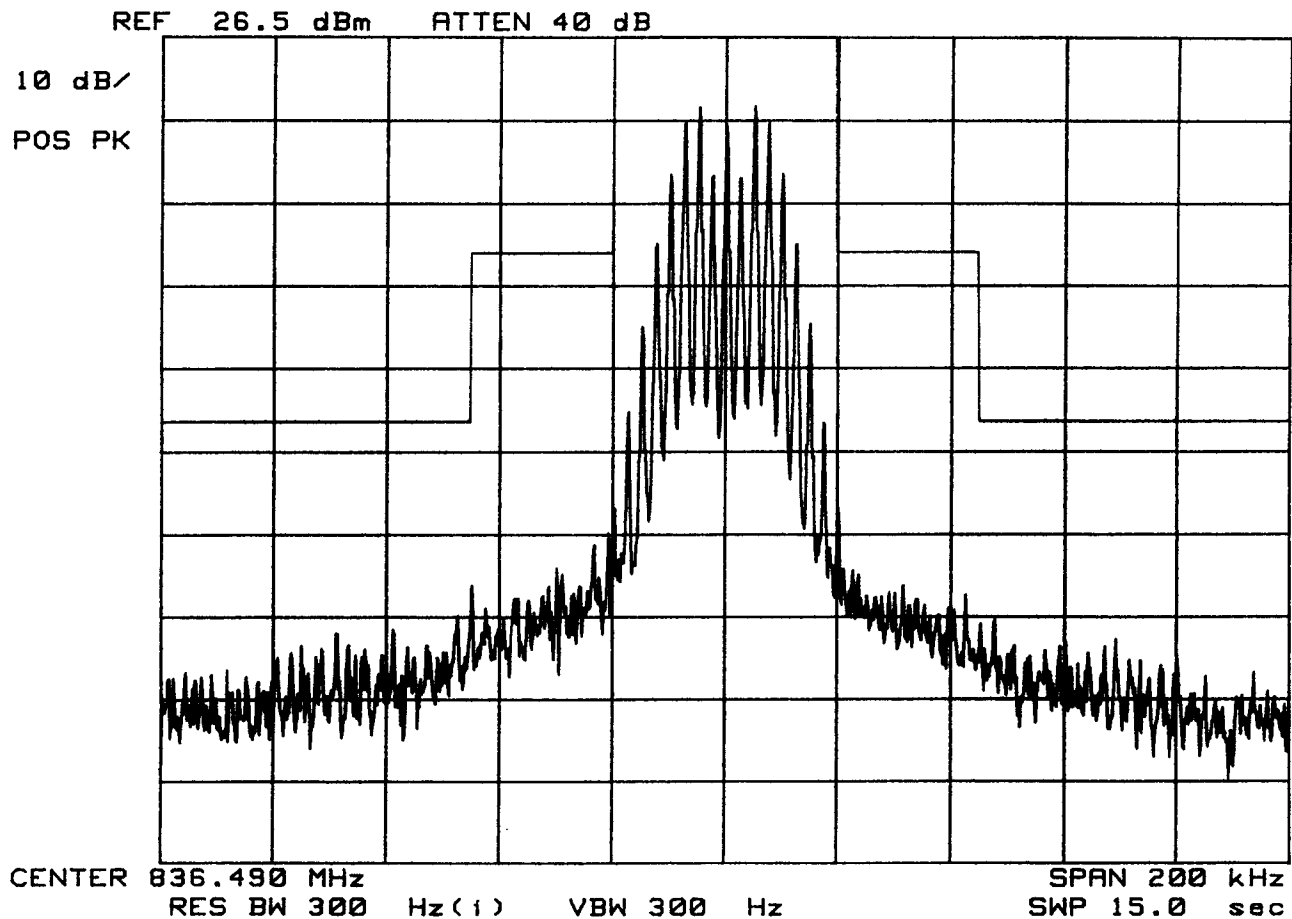
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Voice



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

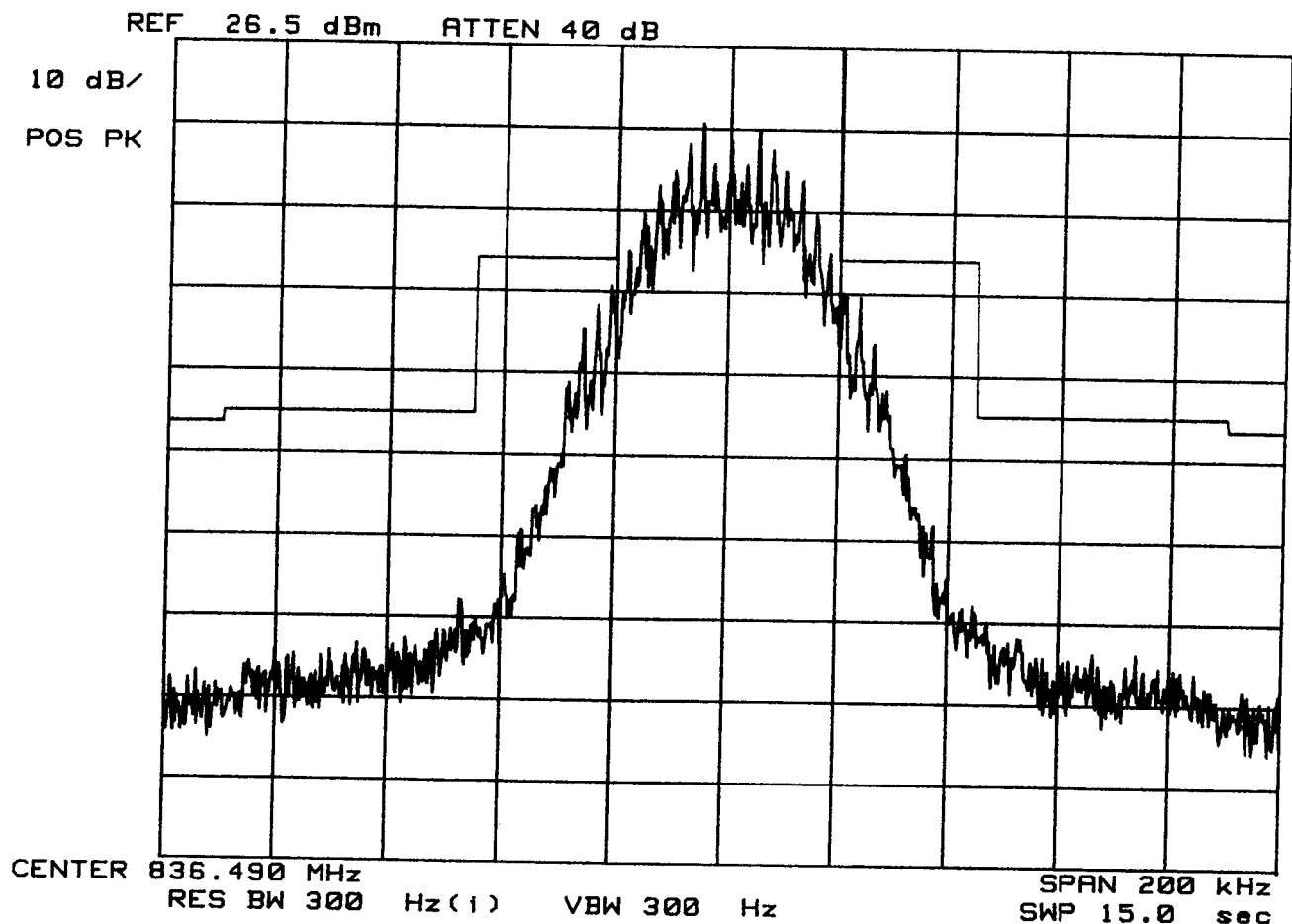
Ch.0383

FM Mode

Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Wide Band Data



PCTEST Engineering Lab.

SPECTRUM ANALYZER PRESENTATION

FCC ID:NOKIA Model:6180i

Dual-Mode Phone

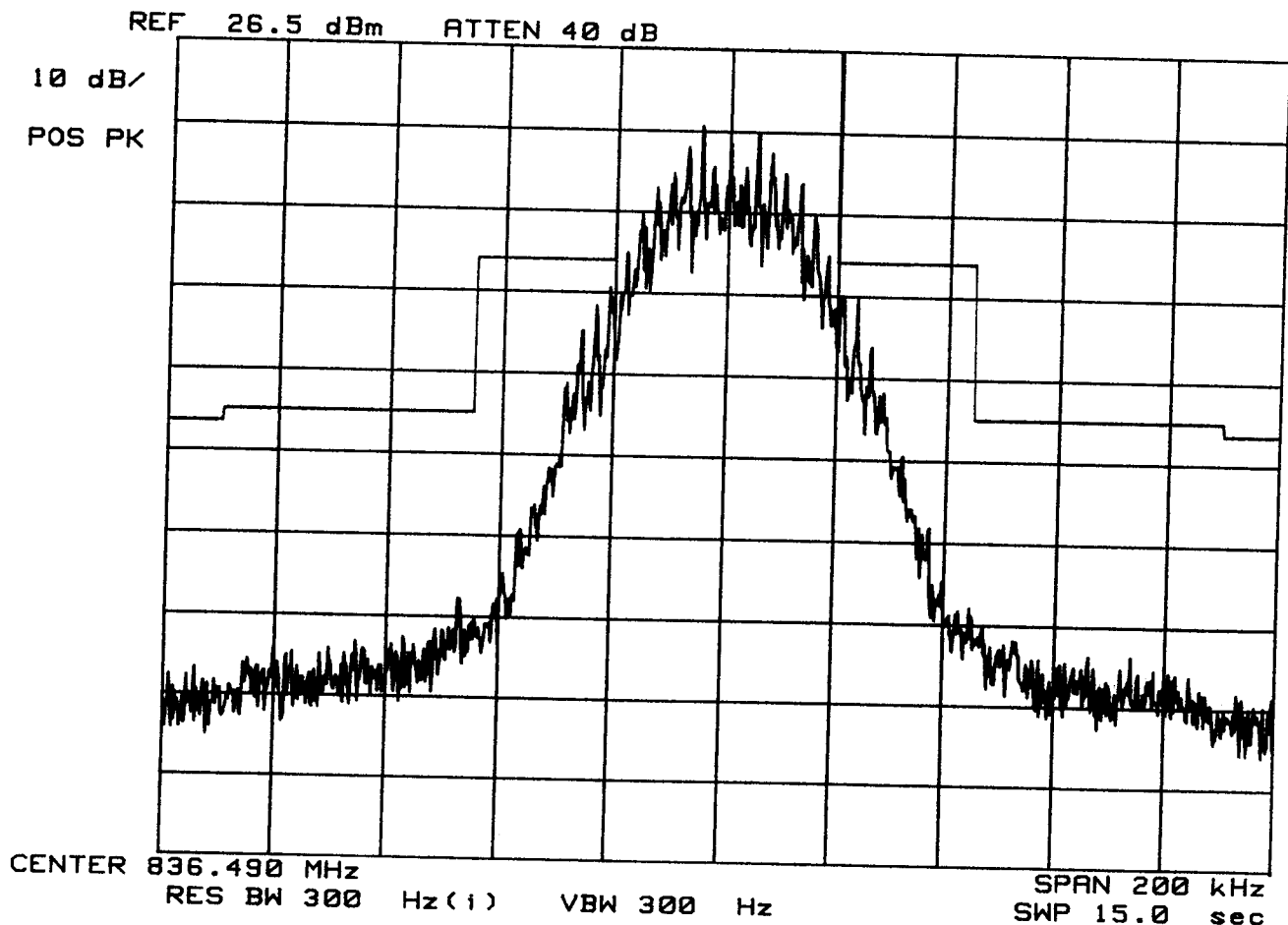
Ch.0383

FM Mode

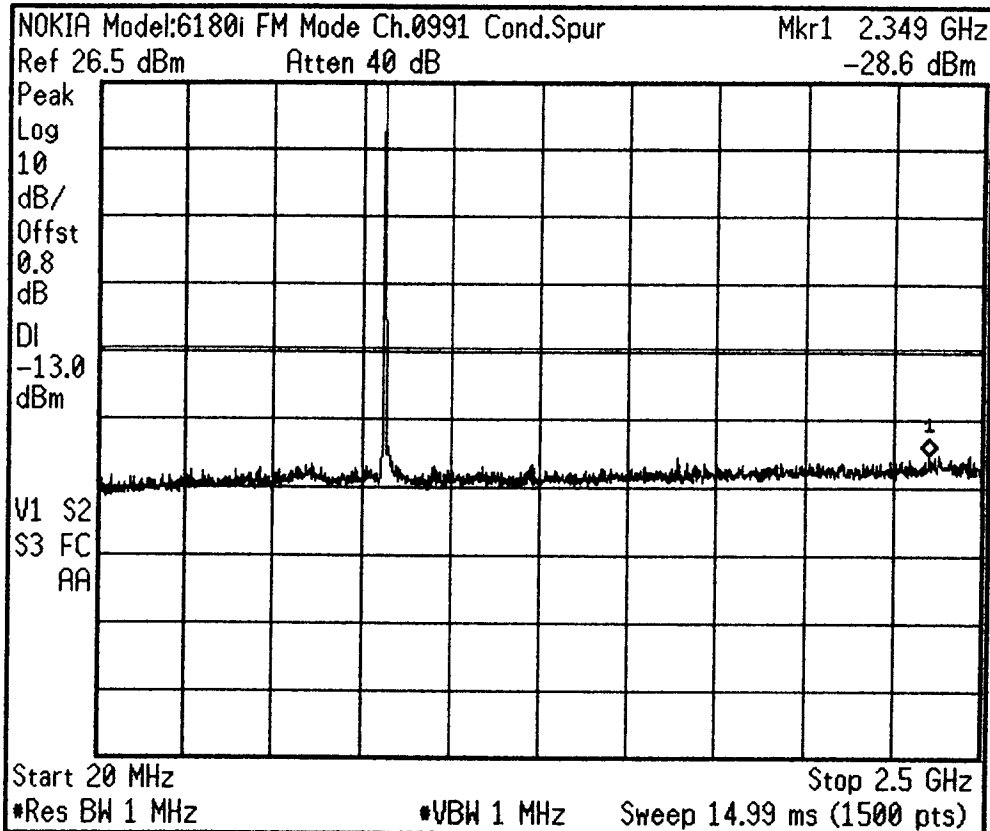
Operating Frequency: 836.490 MHz

Output Power : 26.5 dBm

Test Mode:Wide Band Data

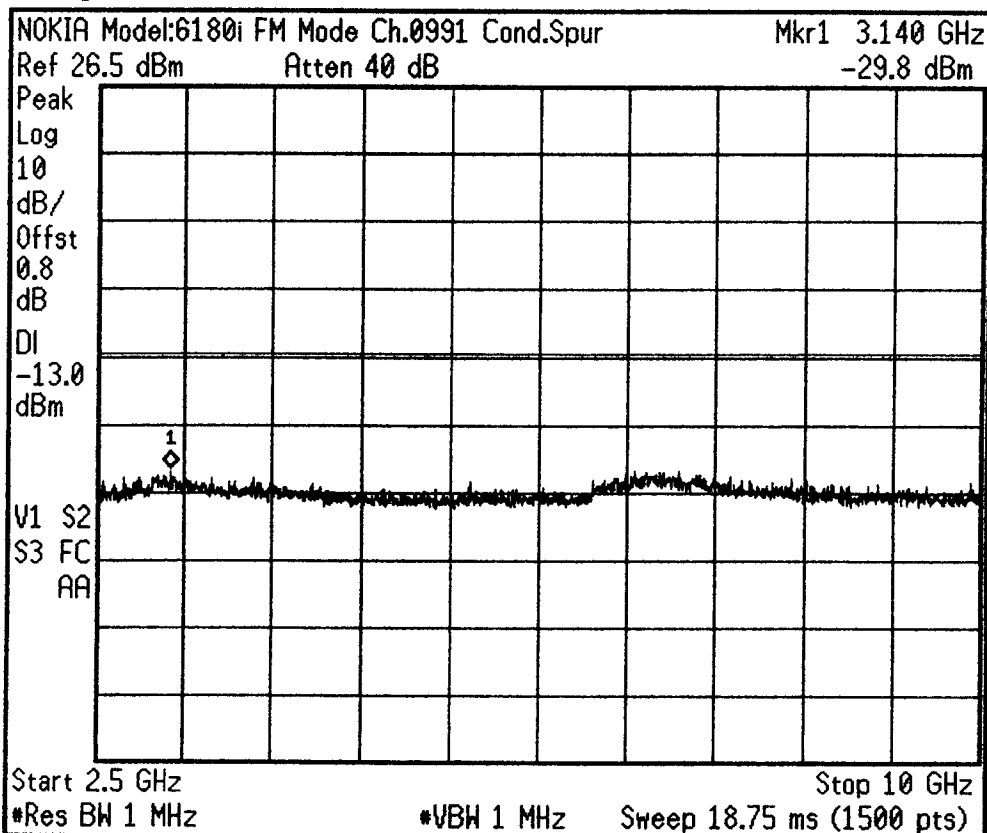


* Agilent 15:01:51 Nov 7, 2000



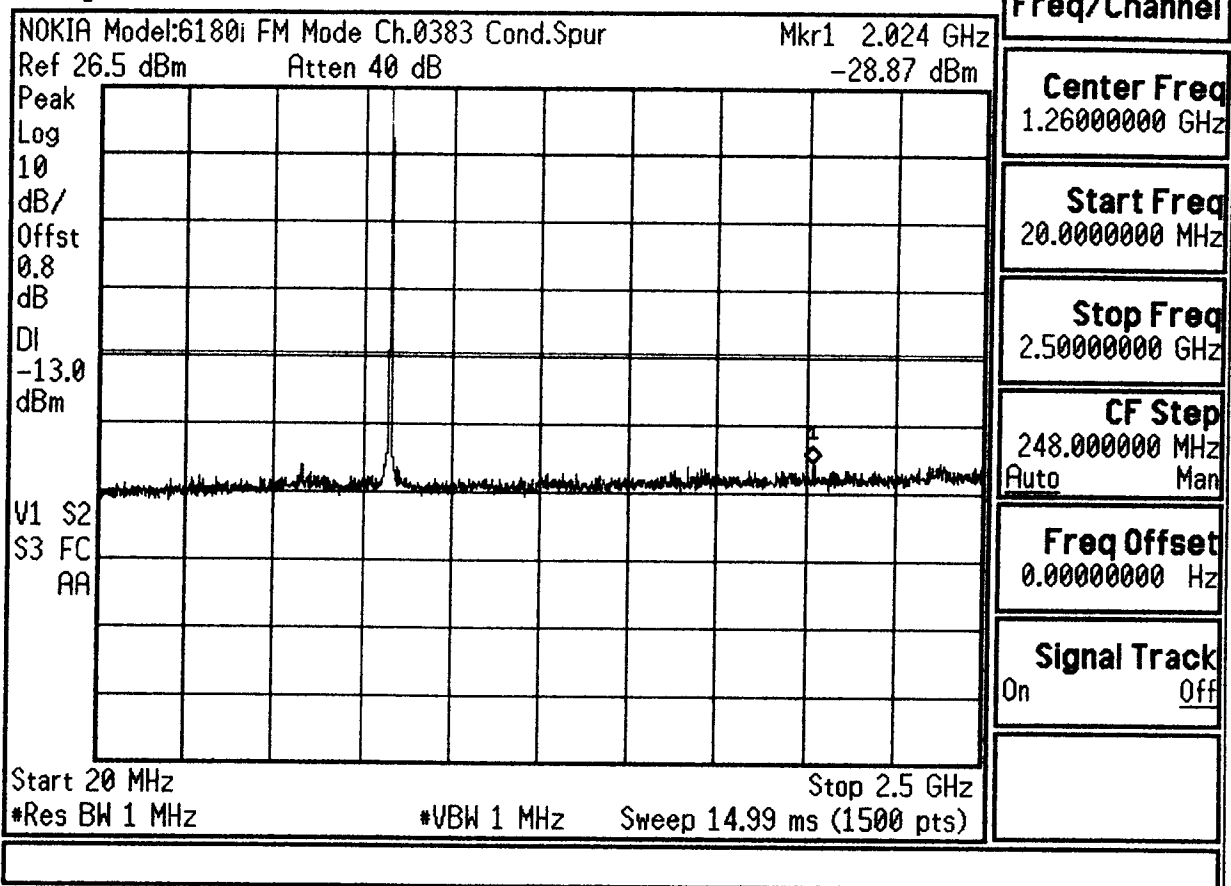
Freq/Channel
Center Freq 1.26000000 GHz
Start Freq 20.0000000 MHz
Stop Freq 2.50000000 GHz
CF Step 248.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

* Agilent 15:08:04 Nov 7, 2000

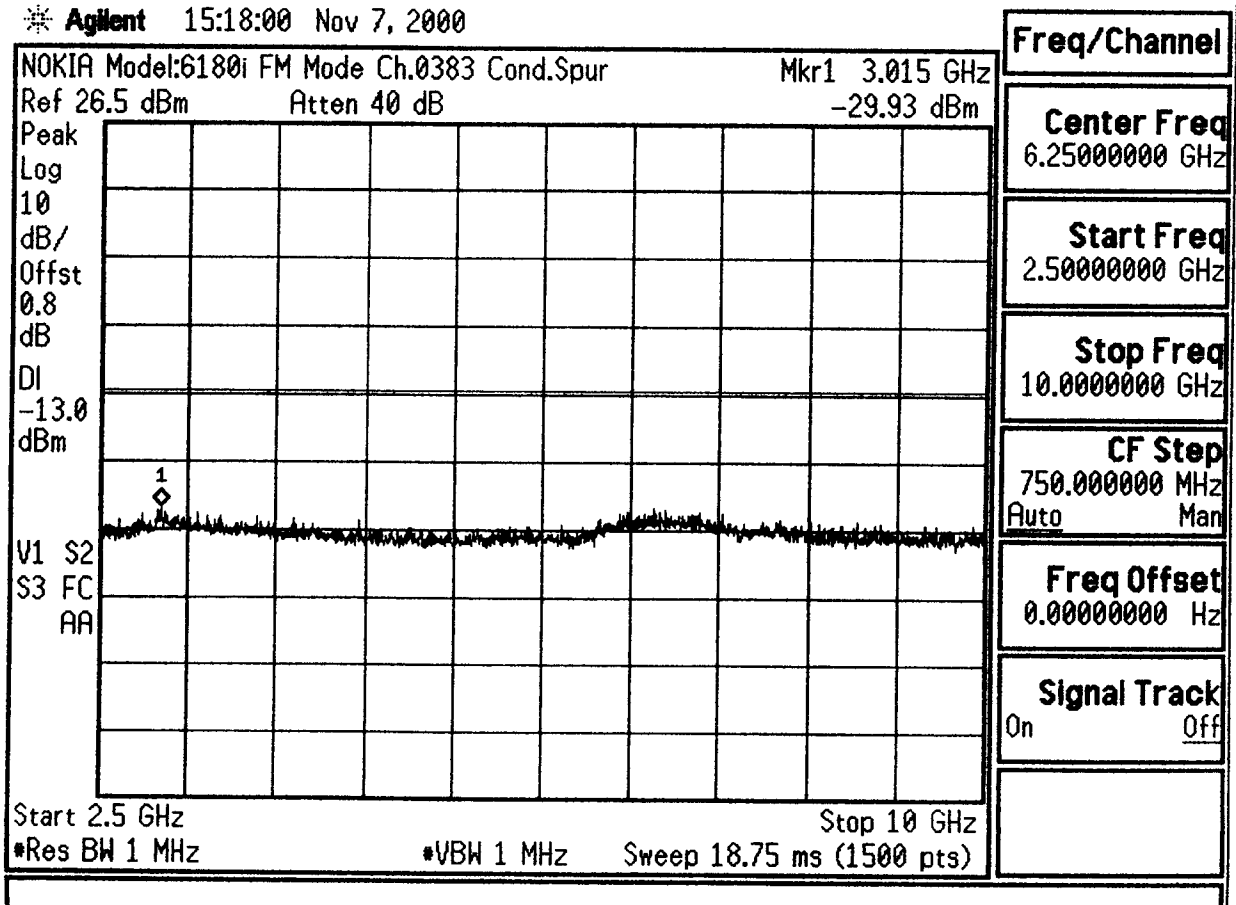


Freq/Channel
Center Freq 6.25000000 GHz
Start Freq 2.50000000 GHz
Stop Freq 10.0000000 GHz
CF Step 750.000000 MHz Auto Man
Freq Offset 0.00000000 Hz
Signal Track On Off

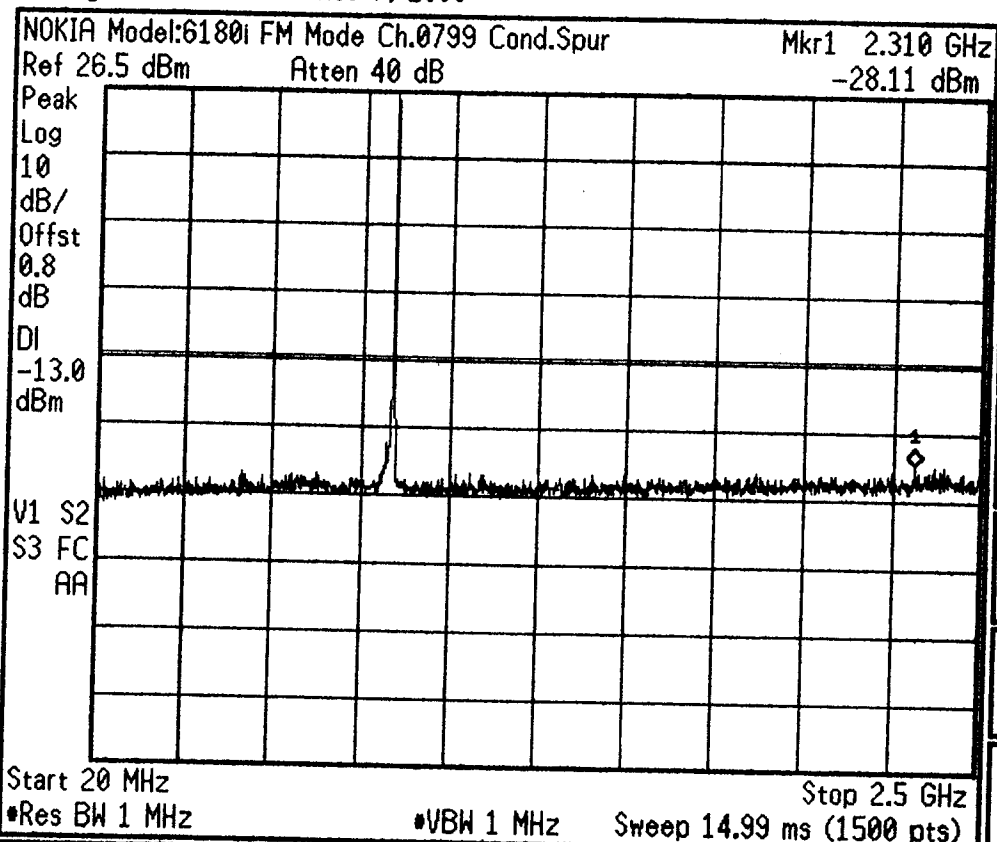
* Agilent 15:16:00 Nov 7, 2000



* Agilent 15:18:00 Nov 7, 2000



* Agilent 15:20:15 Nov 7, 2000



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

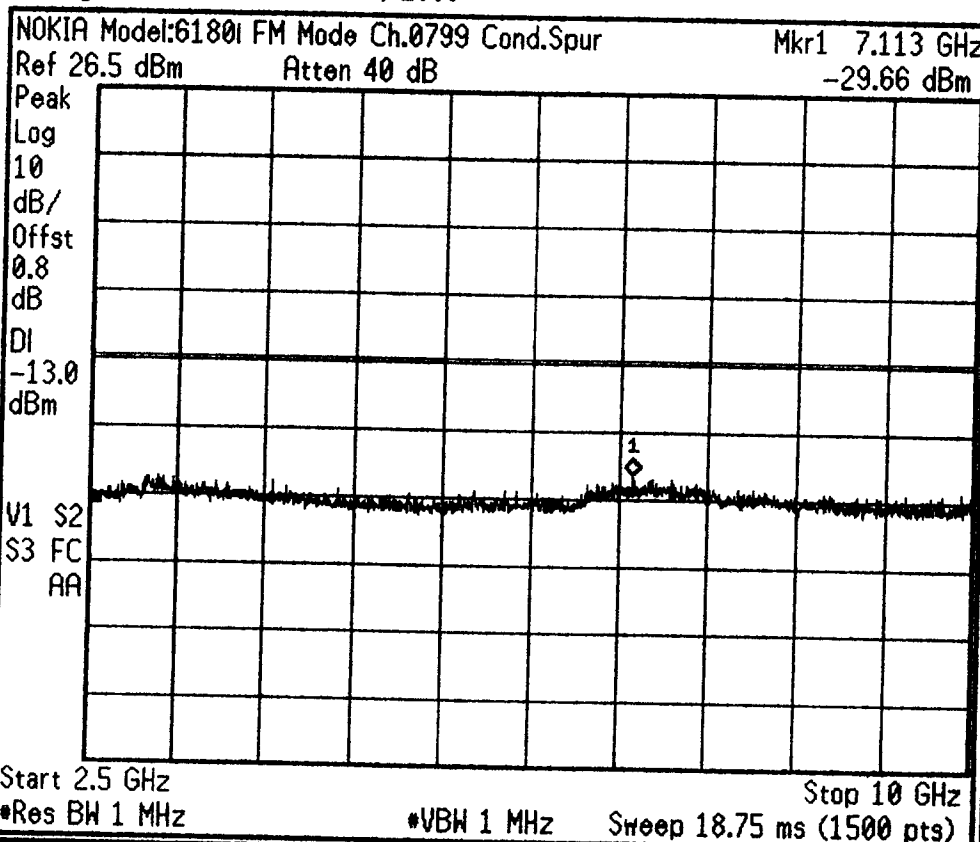
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
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Signal Track
 On Off

* Agilent 15:21:09 Nov 7, 2000



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

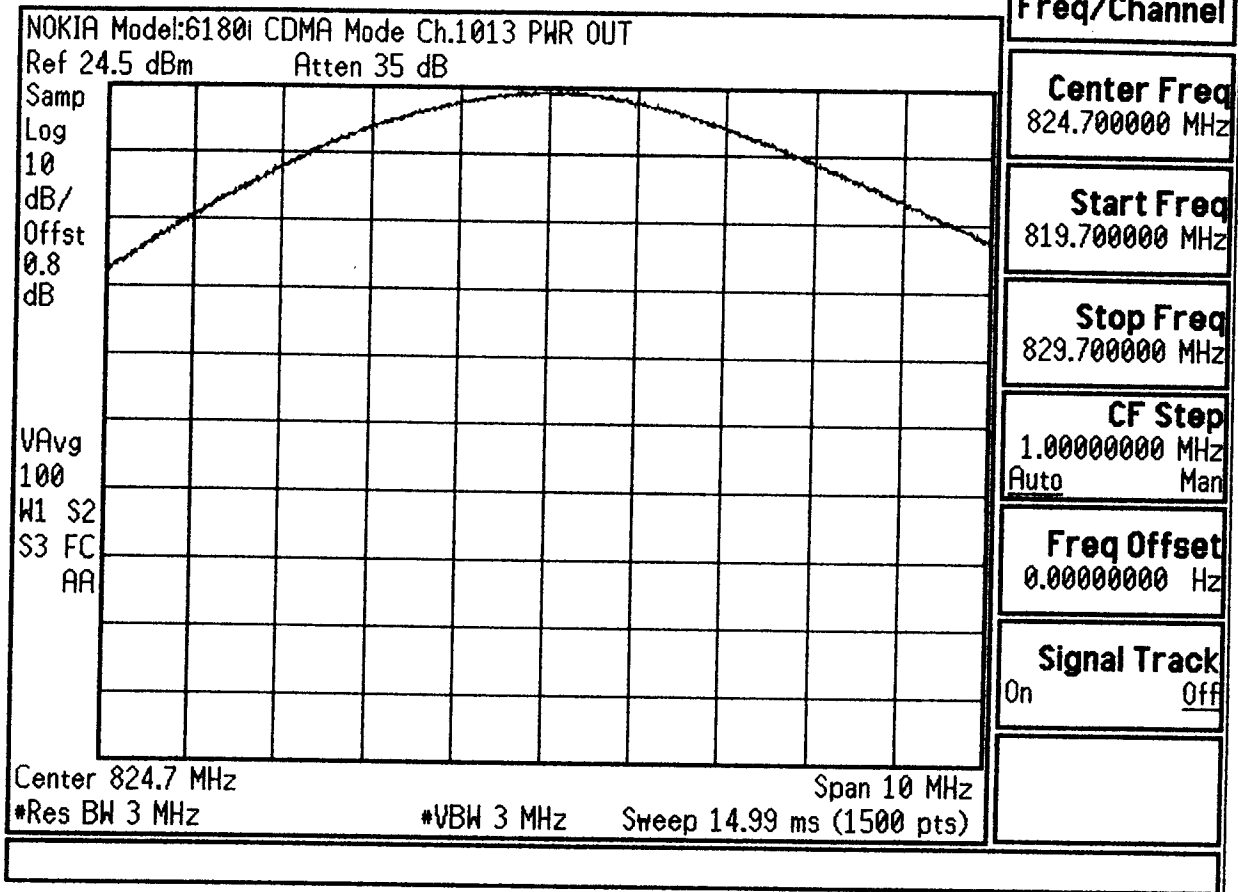
Stop Freq
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CF Step
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 Auto Man

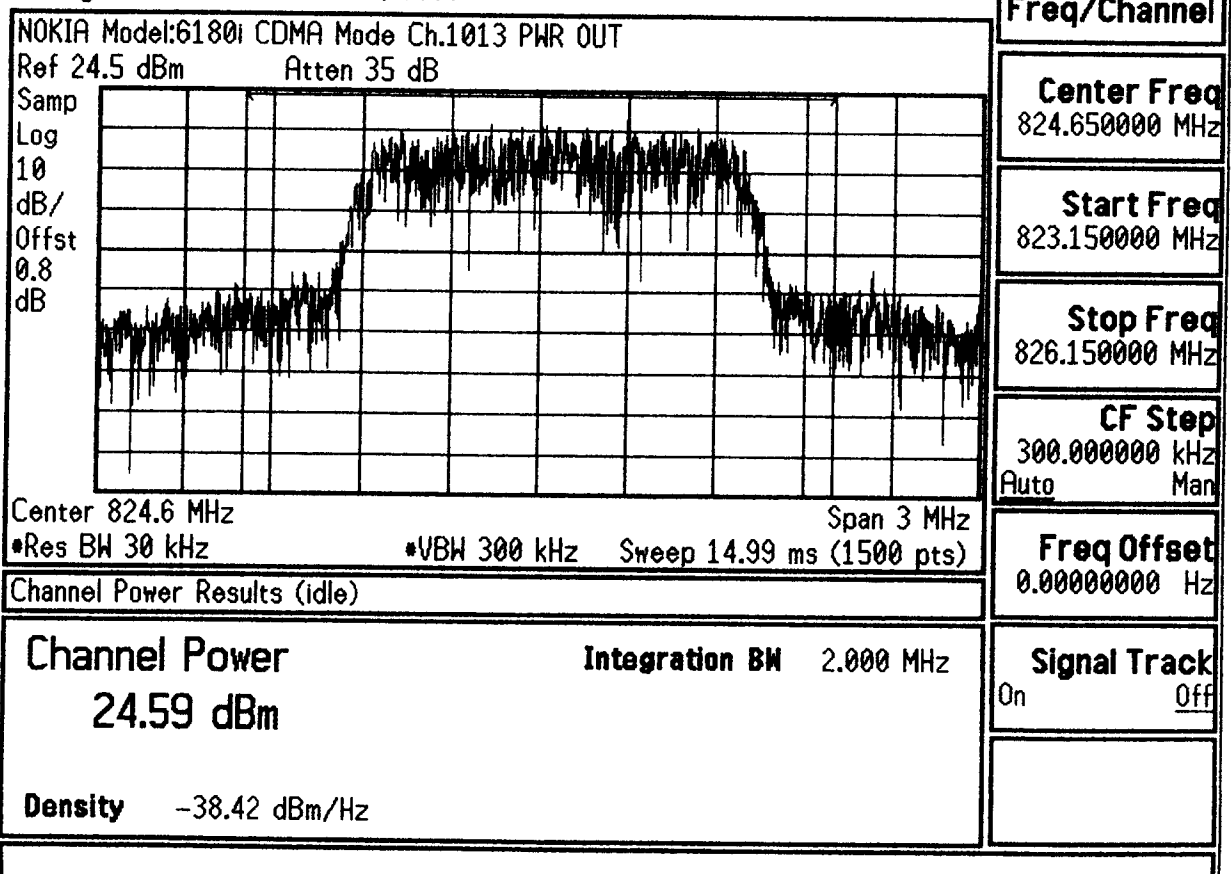
Freq Offset
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Signal Track
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* Agilent 15:37:42 Nov 7, 2000



* Agilent 15:36:17 Nov 7, 2000



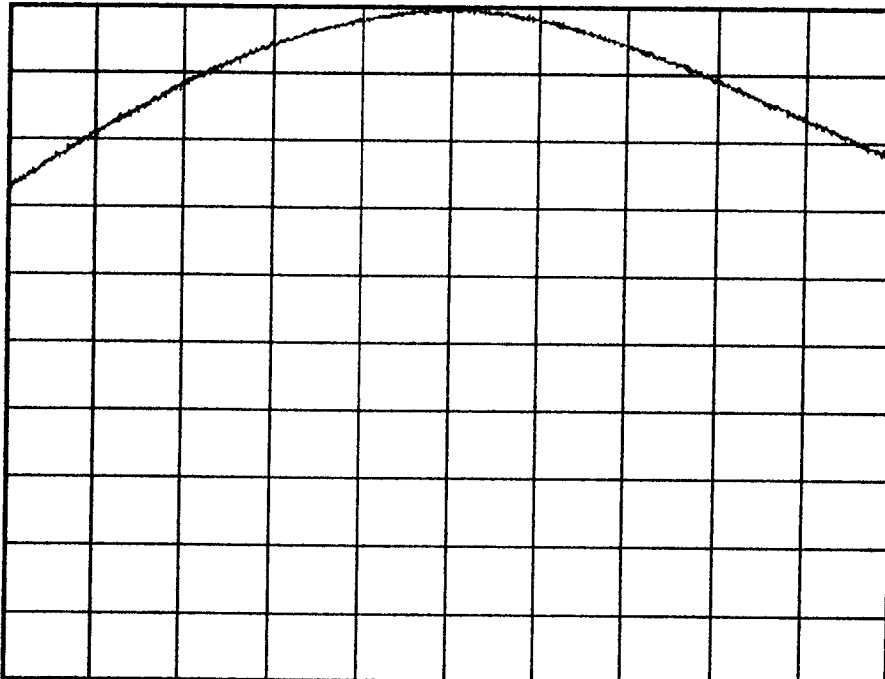
Agilent 15:45:09 Nov 7, 2000

NOKIA Model:6180i CDMA Mode Ch.0383 PWR OUT

Ref 24.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
0.8
dB

VAvg
100
W1 S2
S3 FC
AA



Center 836.5 MHz

Span 10 MHz

*Res BW 3 MHz

*VBW 3 MHz

Sweep 14.99 ms (1500 pts)

Freq/Channel

Center Freq

836.500000 MHz

Start Freq

831.500000 MHz

Stop Freq

841.500000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

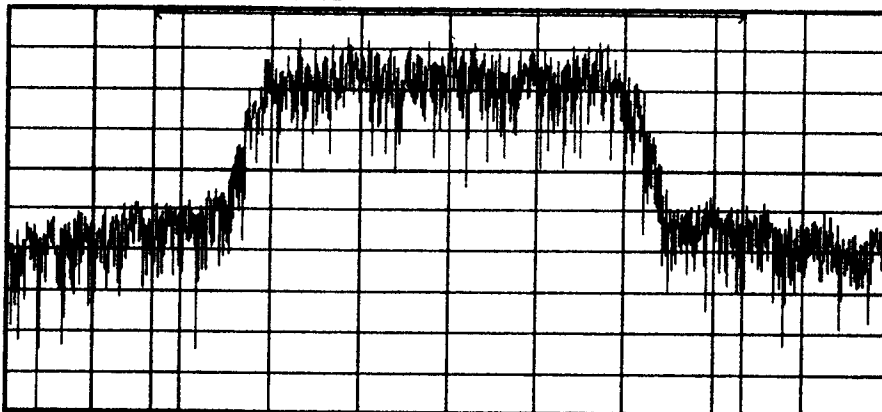
Off

Agilent 15:46:46 Nov 7, 2000

NOKIA Model:6180i CDMA Mode Ch.0383 PWR OUT

Ref 24.5 dBm Atten 35 dB

Samp
Log
10
dB/
Offst
0.8
dB



Center 836.5 MHz

Span 3 MHz

*Res BW 30 kHz

*VBW 300 kHz

Sweep 14.99 ms (1500 pts)

Freq/Channel

Center Freq

836.500000 MHz

Start Freq

835.000000 MHz

Stop Freq

838.000000 MHz

CF Step

300.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Channel Power Results (idle)

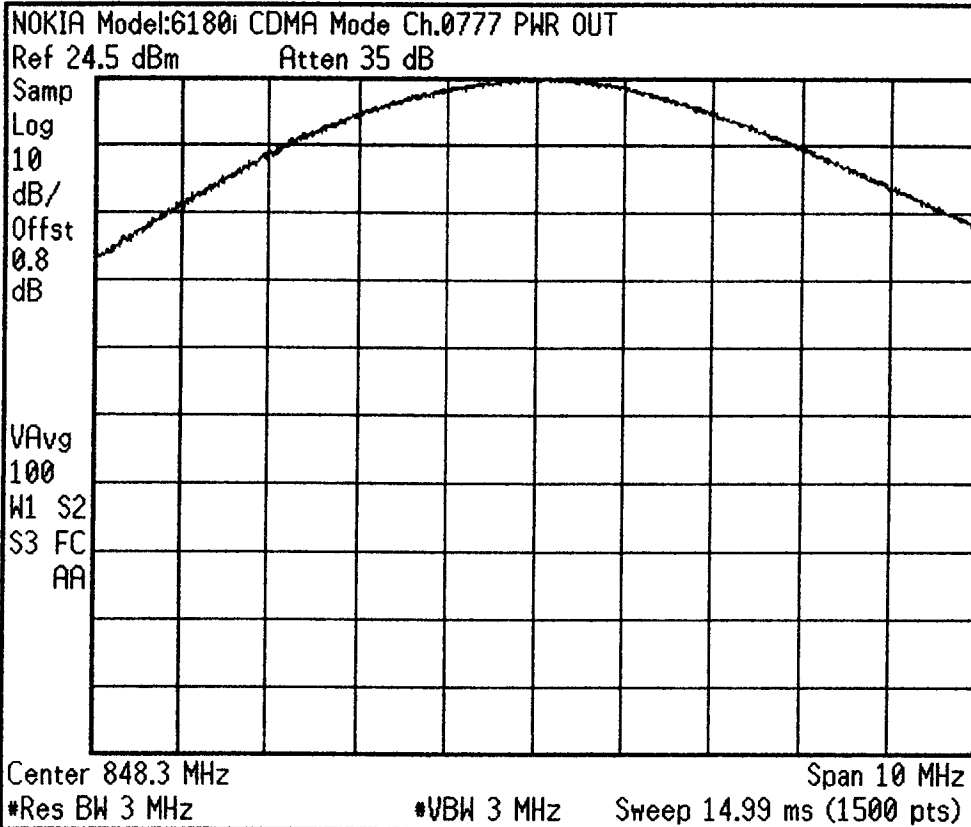
Channel Power

24.49 dBm

Integration BW 2.000 MHz

Density -38.52 dBm/Hz

* Agilent 15:50:59 Nov 7, 2000



Freq/Channel

Center Freq
848.300000 MHz

Start Freq
843.300000 MHz

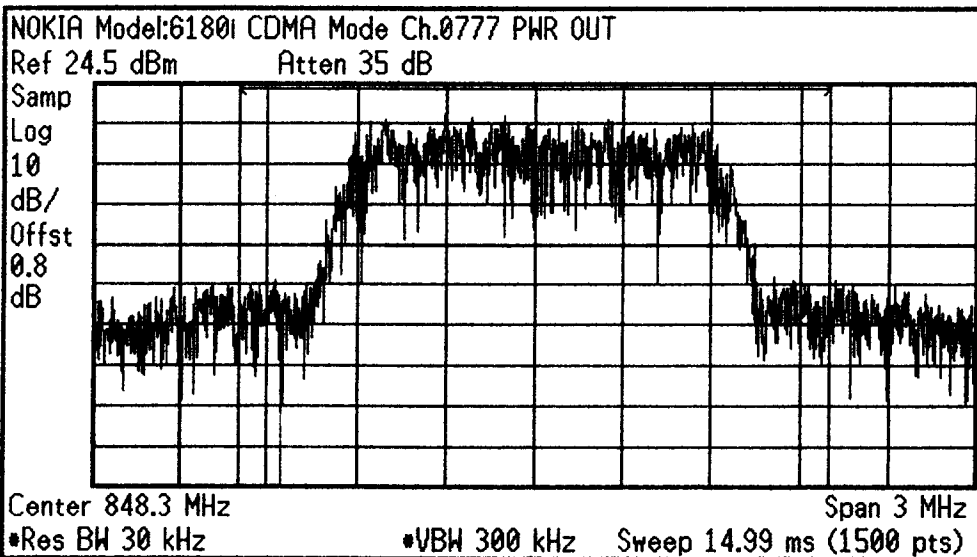
Stop Freq
853.300000 MHz

CF Step
1.00000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 16:00:07 Nov 7, 2000



Freq/Channel

Center Freq
848.300000 MHz

Start Freq
846.800000 MHz

Stop Freq
849.800000 MHz

CF Step
300.000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

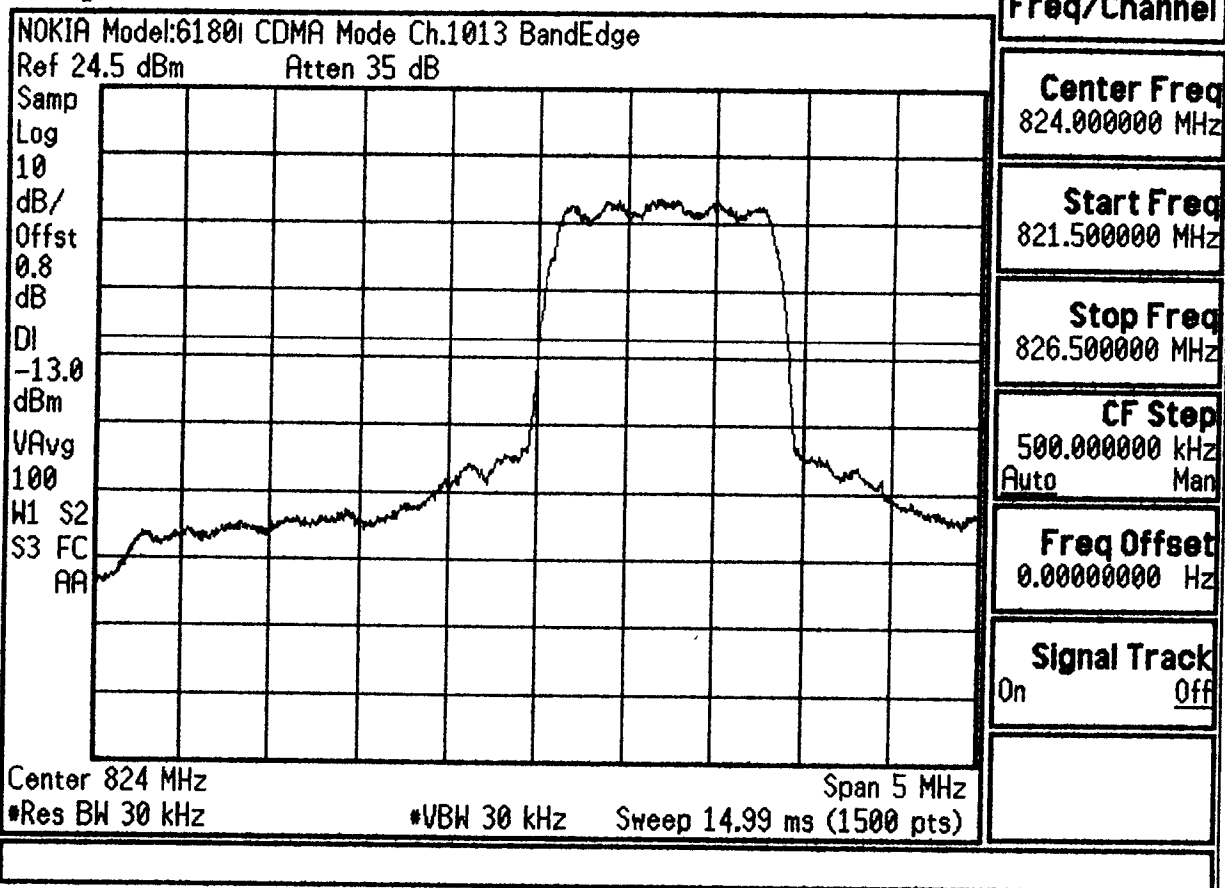
Signal Track
On Off

Channel Power Results (idle)

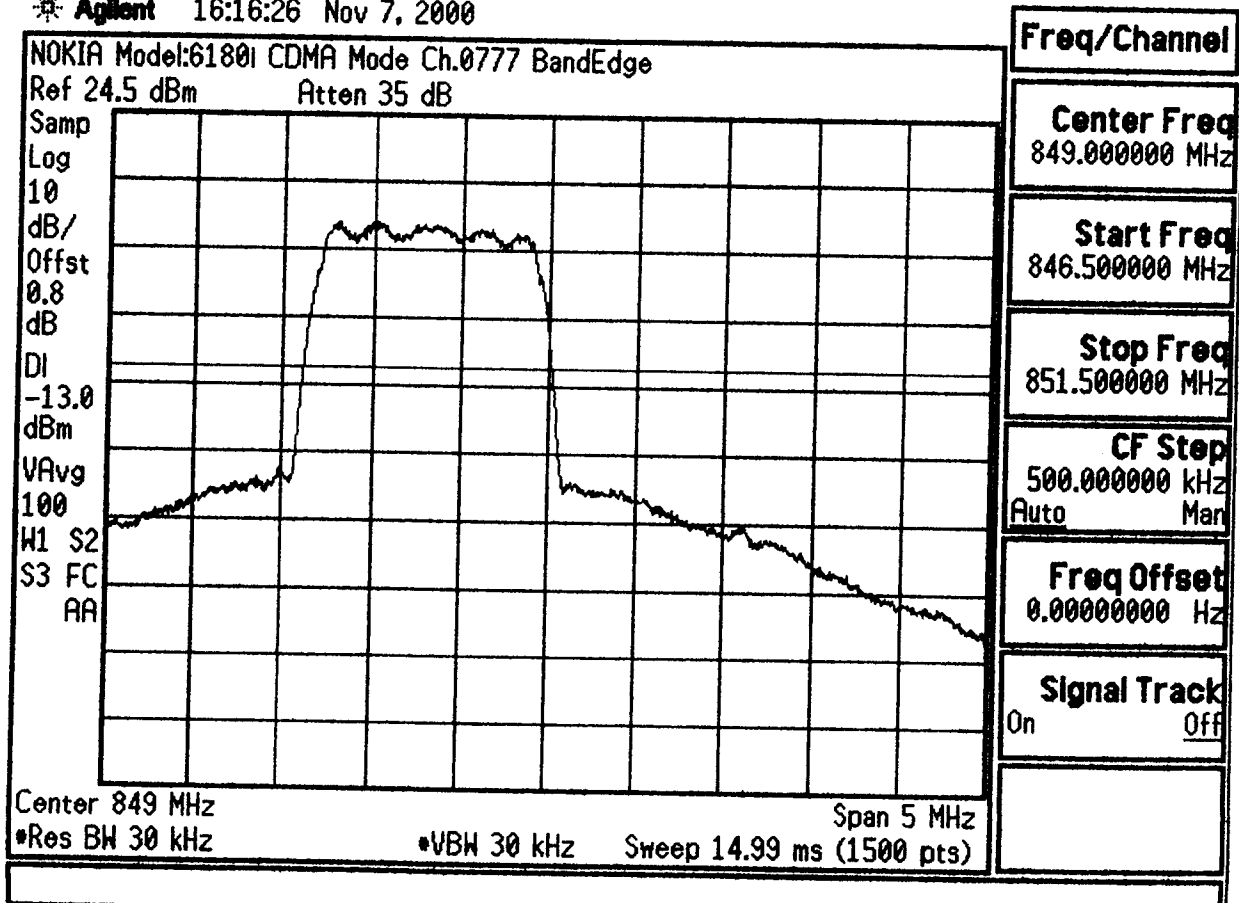
Channel Power
24.48 dBm

Integration BW 2.000 MHz

* Agilent 16:26:31 Nov 7, 2000



* Agilent 16:16:26 Nov 7, 2000



Agilent 17:02:26 Nov 7, 2000

NOKIA Model:6180i CDMA Mode Ch.0383 PWR OUT

Ref 24.5 dBm

Atten 35 dB

Samp

Log

10

dB/

Offst

0.8

dB

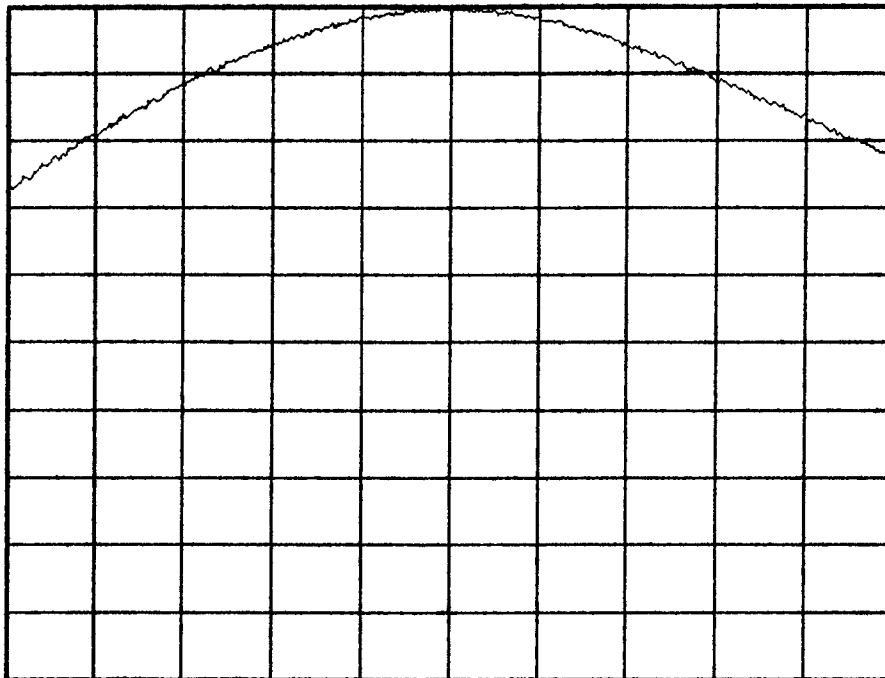
VAvg

100

W1 S2

S3 FC

AA



Center 836.5 MHz

Span 10 MHz

•Res BW 3 MHz

•VBW 3 MHz

Sweep 5 ms (401 pts)

Freq/Channel

Center Freq

836.500000 MHz

Start Freq

831.500000 MHz

Stop Freq

841.500000 MHz

CF Step

1.00000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Agilent 17:06:39 Nov 7, 2000

NOKIA Model:6180i CDMA Mode Ch.0383 PWR OUT

Ref 24.5 dBm

Atten 35 dB

Samp

Log

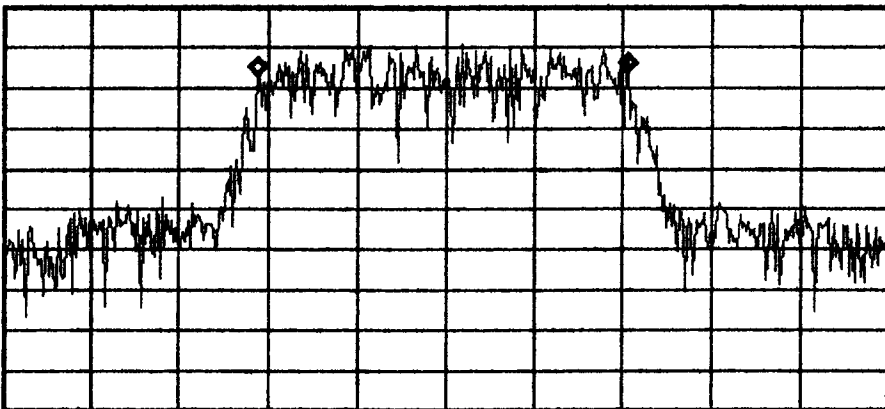
10

dB/

Offst

0.8

dB



Center 836.5 MHz

Span 3 MHz

•Res BW 30 kHz

•VBW 300 kHz

Sweep 9.167 ms (401 pts)

Freq/Channel

Center Freq

836.500000 MHz

Start Freq

835.000000 MHz

Stop Freq

838.000000 MHz

CF Step

300.000000 kHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Occupied Bandwidth Results (Idle)

Occupied Bandwidth

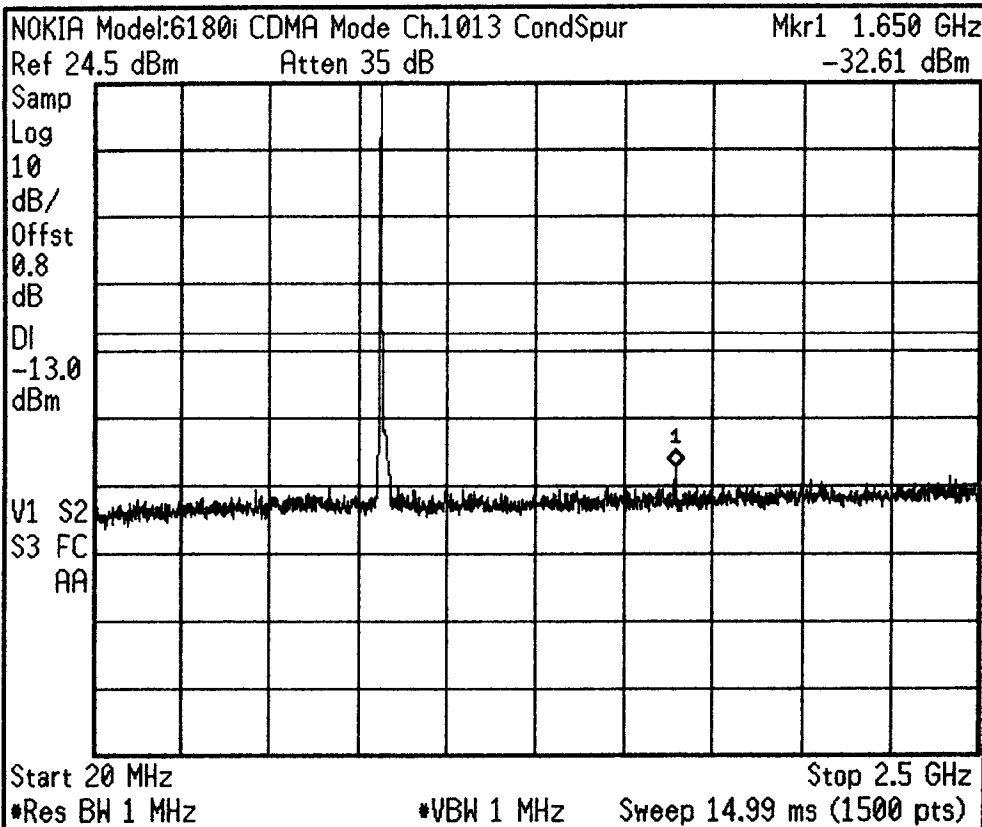
1.251 MHz

Occ BW % Pwr

99.00 %

Transmit Freq Error -8.750 kHz

Agilent 16:30:18 Nov 7, 2000



Freq/Channel

Center Freq

1.26000000 GHz

Start Freq

20.0000000 MHz

Stop Freq

2.50000000 GHz

CF Step

248.000000 MHz

Auto Man

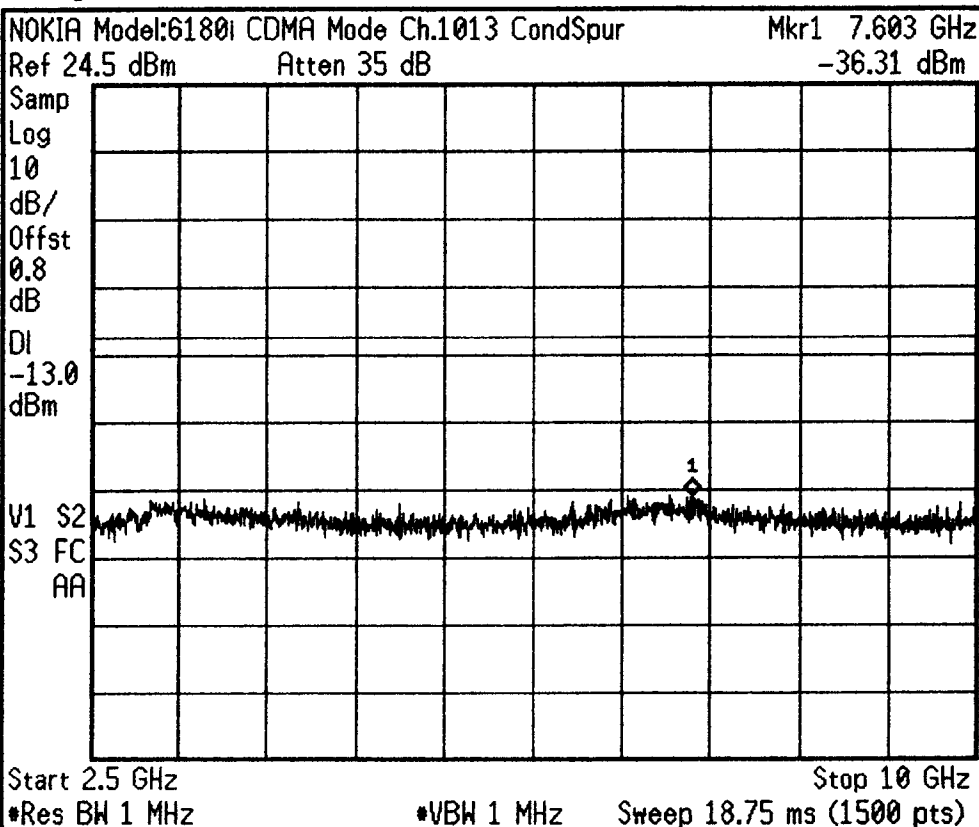
Freq Offset

0.00000000 Hz

Signal Track

On Off

Agilent 16:31:32 Nov 7, 2000



Freq/Channel

Center Freq

6.25000000 GHz

Start Freq

2.50000000 GHz

Stop Freq

10.0000000 GHz

CF Step

750.000000 MHz

Auto Man

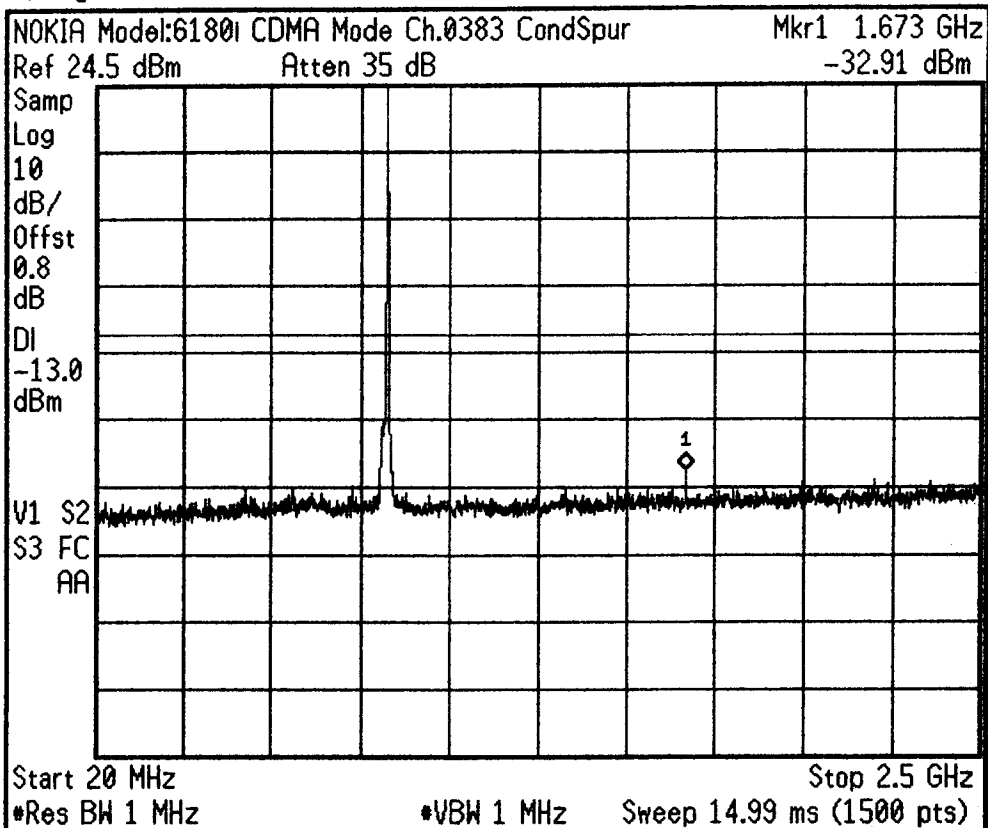
Freq Offset

0.00000000 Hz

Signal Track

On Off

* Agilent 16:33:52 Nov 7, 2000



Freq/Channel

Center Freq
1.26000000 GHz

Start Freq
20.0000000 MHz

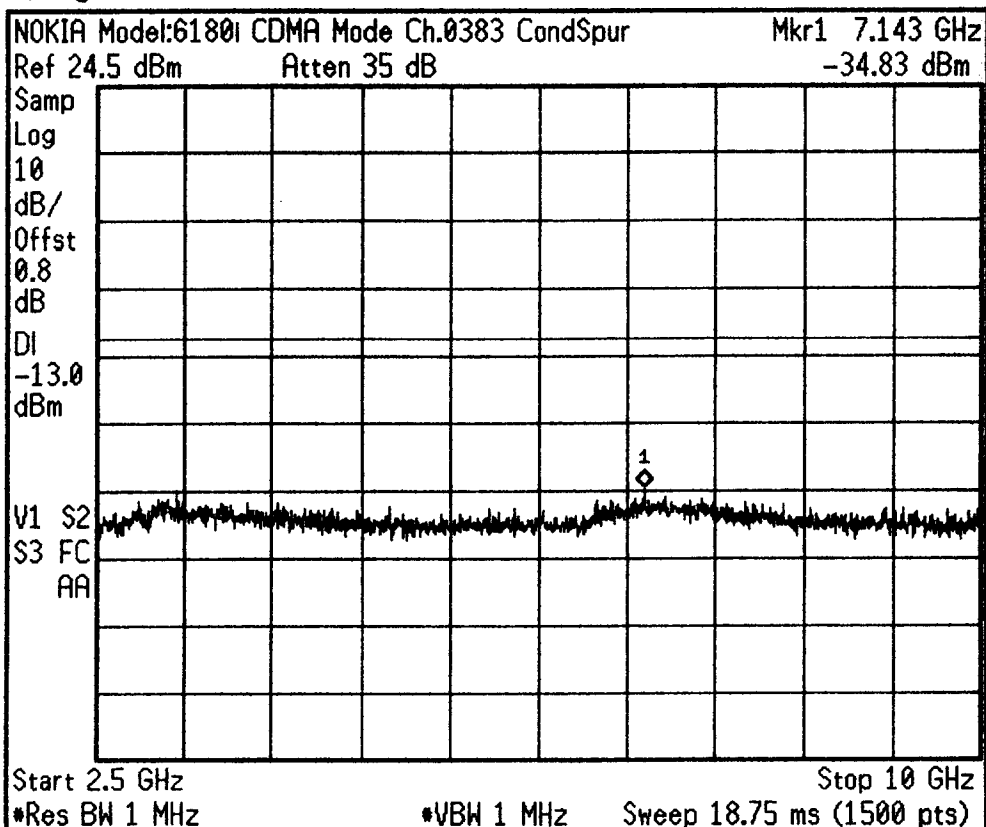
Stop Freq
2.50000000 GHz

CF Step
248.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 16:34:58 Nov 7, 2000



Freq/Channel

Center Freq
6.25000000 GHz

Start Freq
2.50000000 GHz

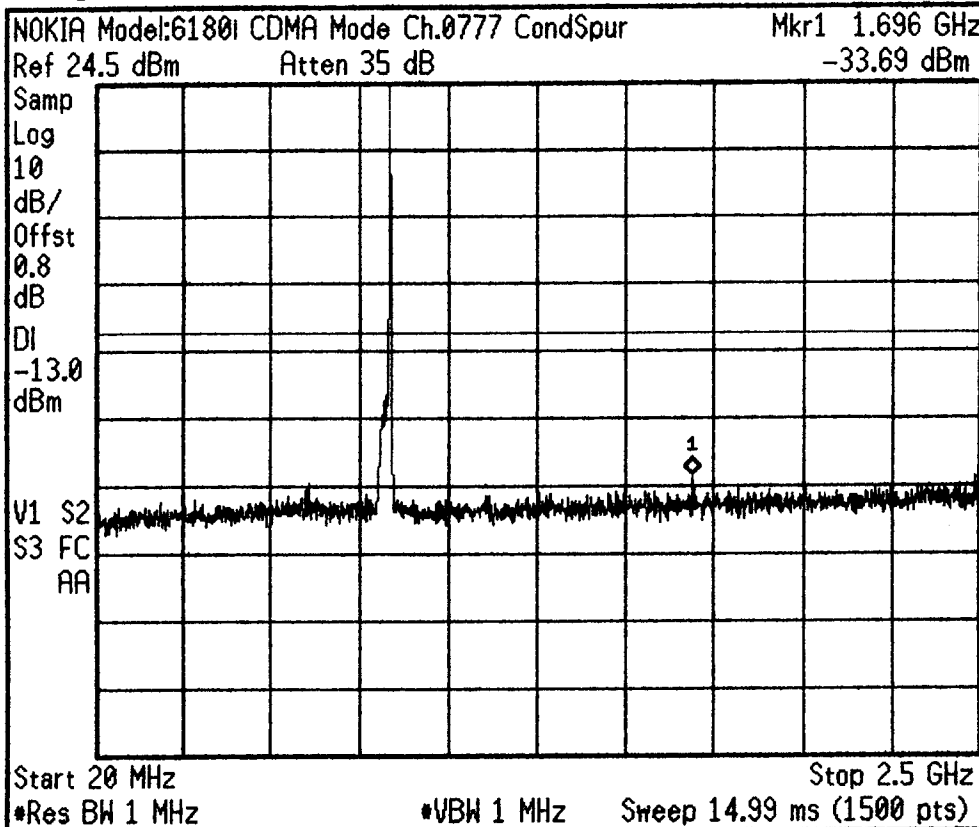
Stop Freq
10.0000000 GHz

CF Step
750.000000 MHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

* Agilent 17:16:02 Nov 7, 2000



Freq/Channel

Center Freq
 1.26000000 GHz

Start Freq
 20.0000000 MHz

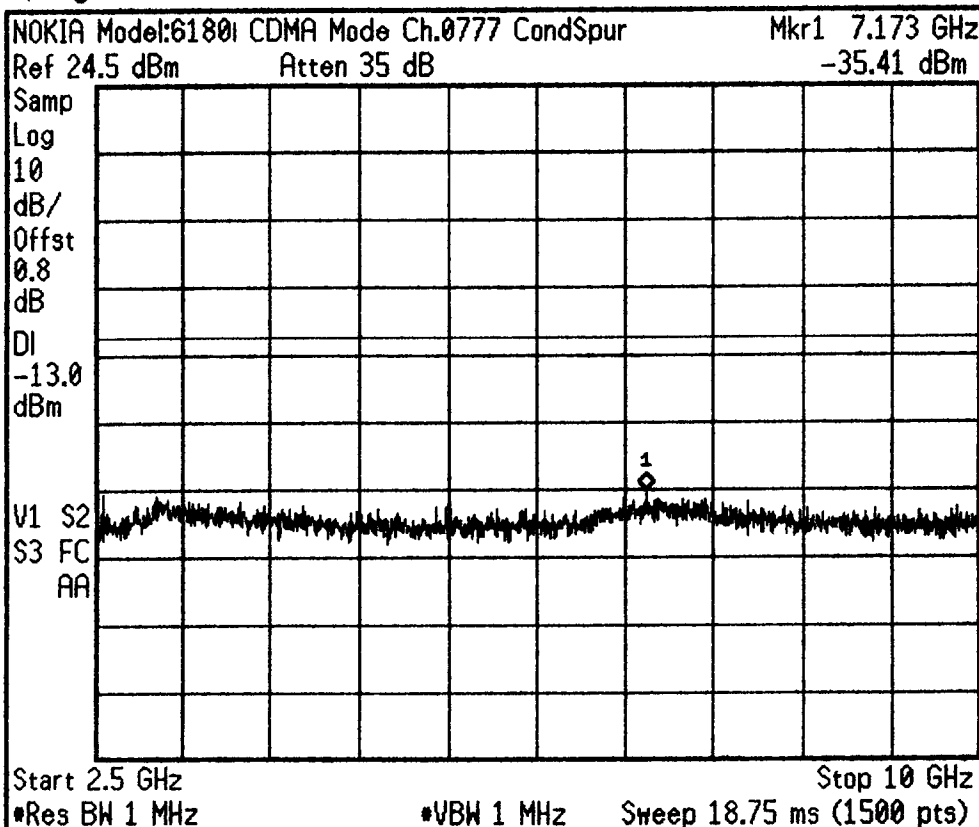
Stop Freq
 2.50000000 GHz

CF Step
 248.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

* Agilent 17:17:01 Nov 7, 2000



Freq/Channel

Center Freq
 6.25000000 GHz

Start Freq
 2.50000000 GHz

Stop Freq
 10.0000000 GHz

CF Step
 750.000000 MHz
 Auto Man

Freq Offset
 0.00000000 Hz

Signal Track
 On Off

SUBJECT: Modulation Characteristics
FCC Part 22

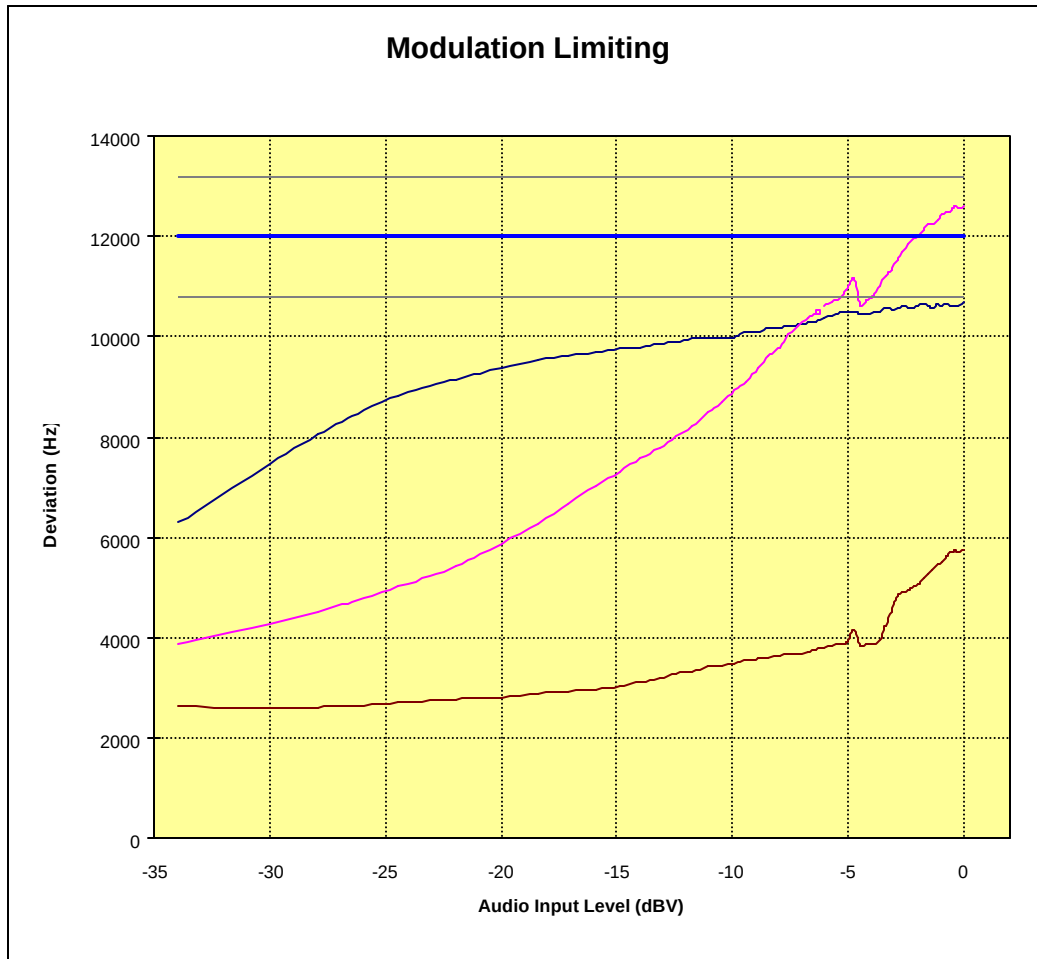
Test Report No.: 22.201106551.GML
Test Date: 11.06.00

EUT: NOKIA MOBILE PHONES Inc.

Model(s): 6180i

FCC ID: GMLNSD-3GW

REFERENCE: 1 kHz = 0 dB

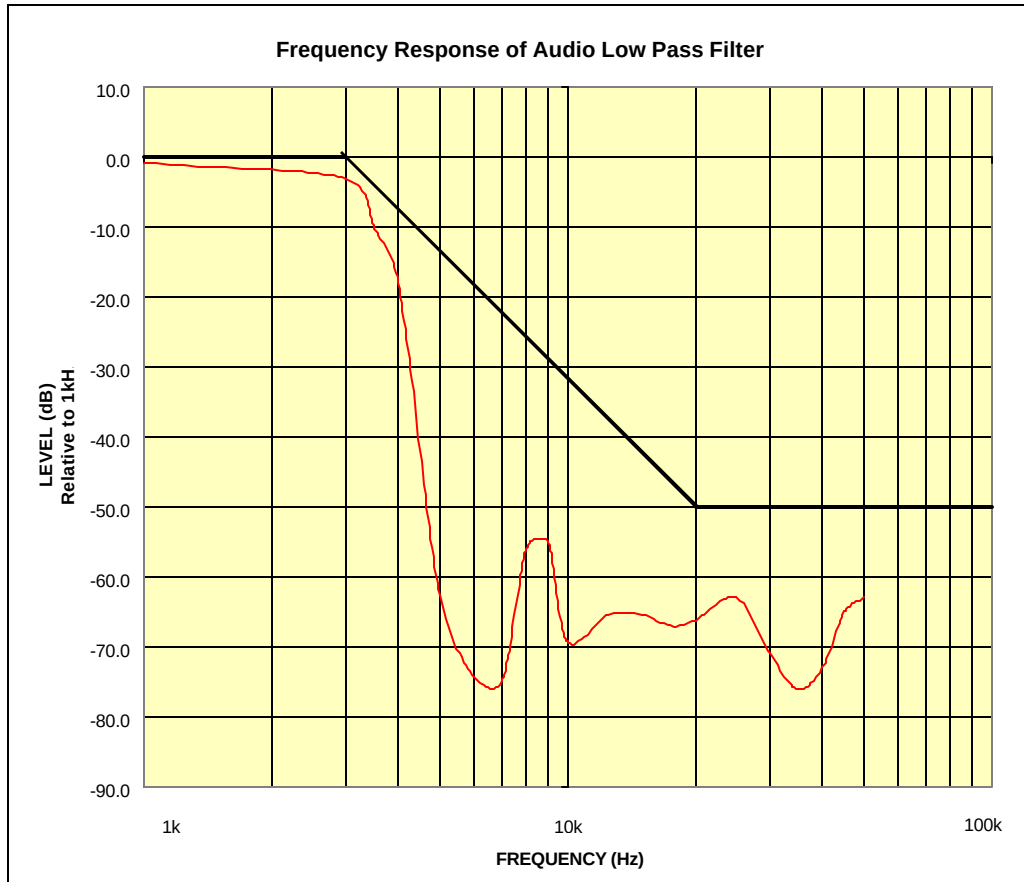


SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.201106551.GML
Test Date: 11.06.00

EUT: NOKIA MOBILE PHONES Inc.
Model(s): 6180i
FCC ID: GMLNSD-3GW

REFERENCE: 1 kHz = 0 dB



SUBJECT: Modulation Characteristics
FCC Part 22

Test Report No.: 22.201106551.GML
Test Date: 11.06.00

EUT: NOKIA MOBILE PHONES Inc.
Model(s): 6180i
FCC ID: GMLNSD-3GW

REFERENCE: 1 kHz = 0 dB

