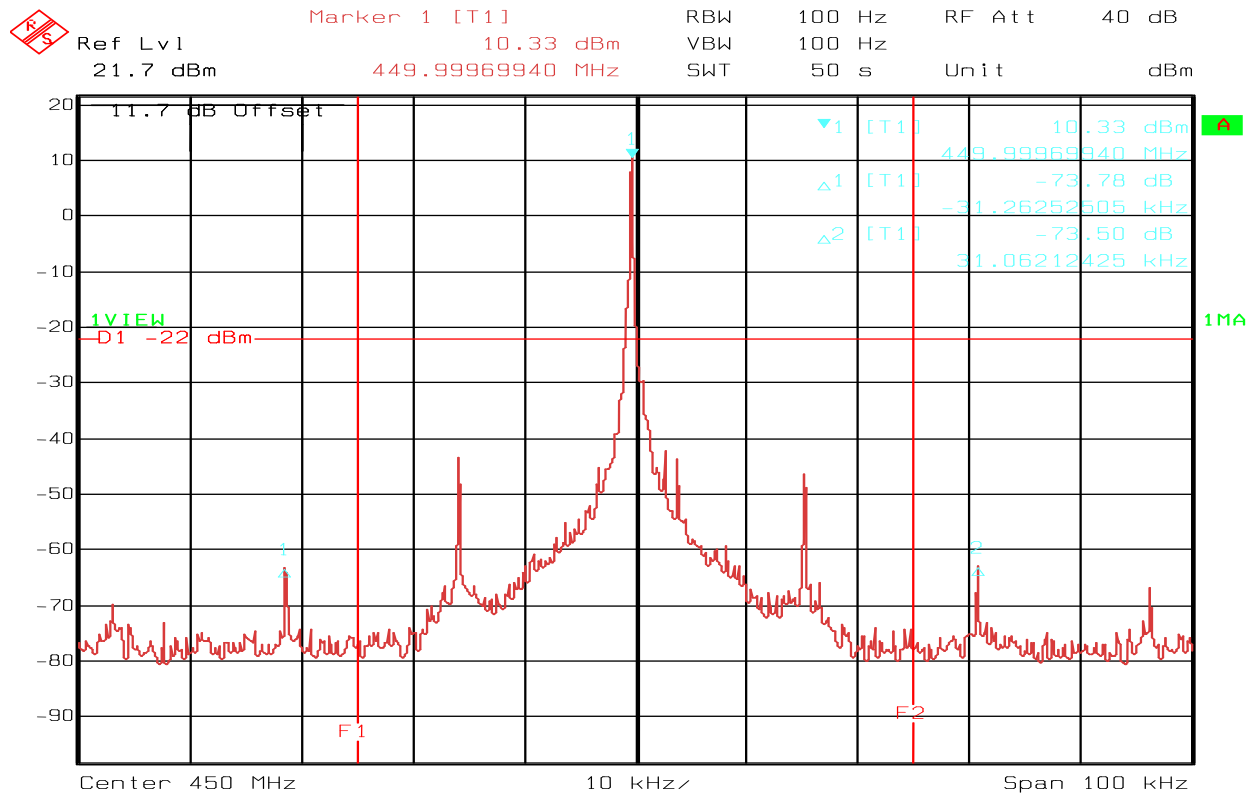
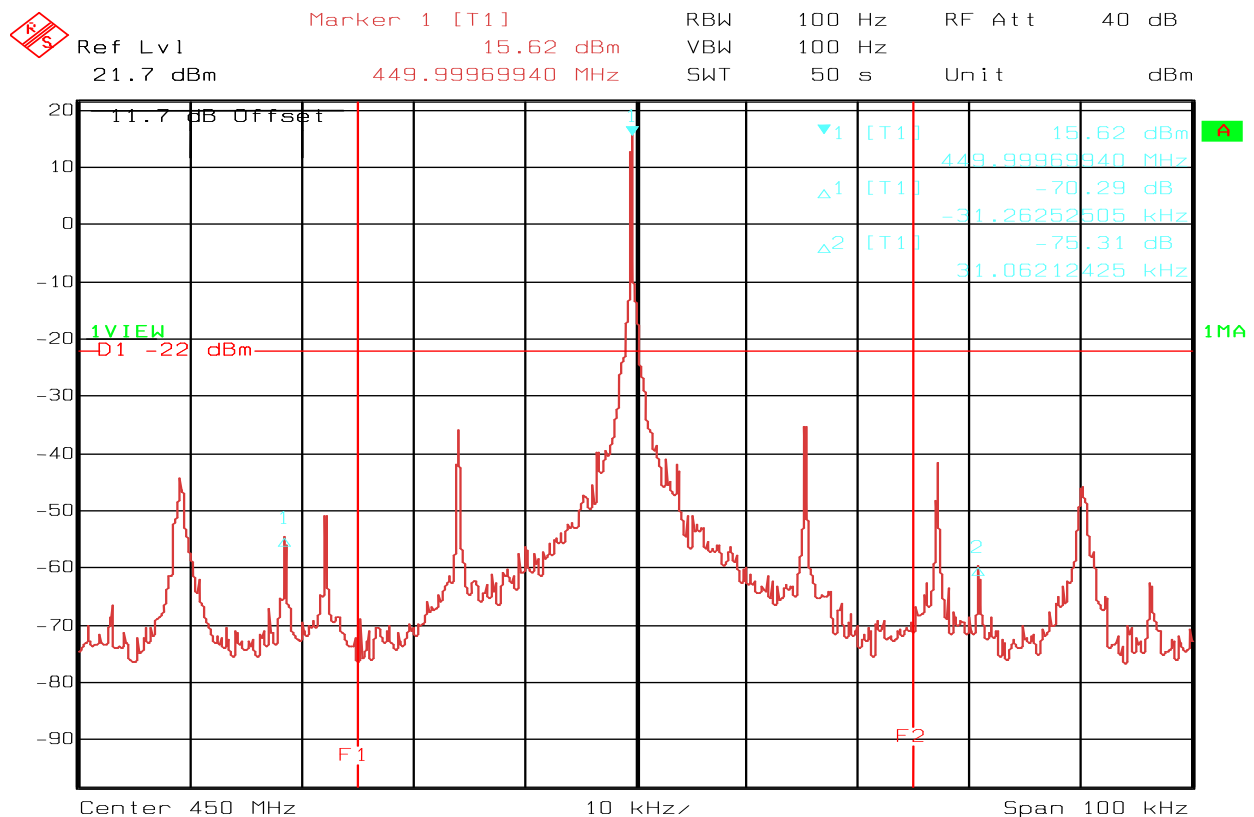
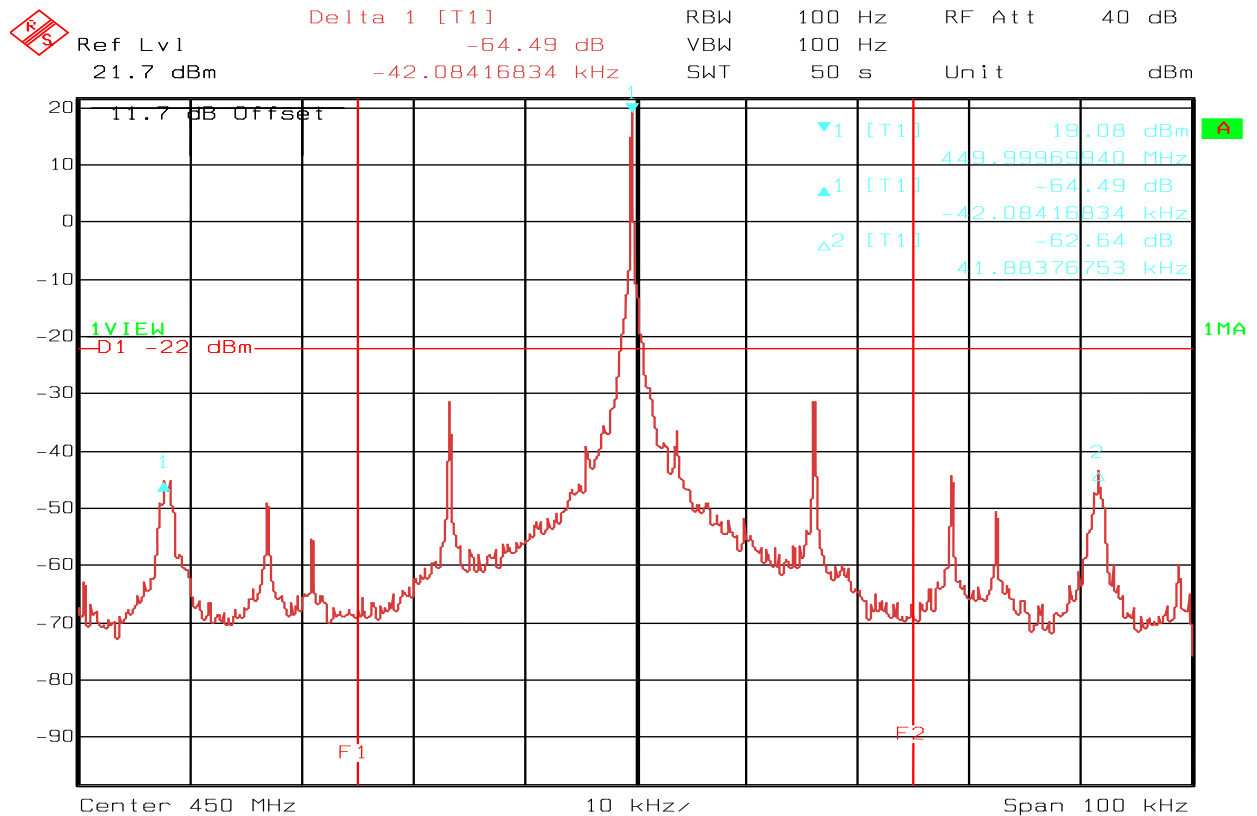
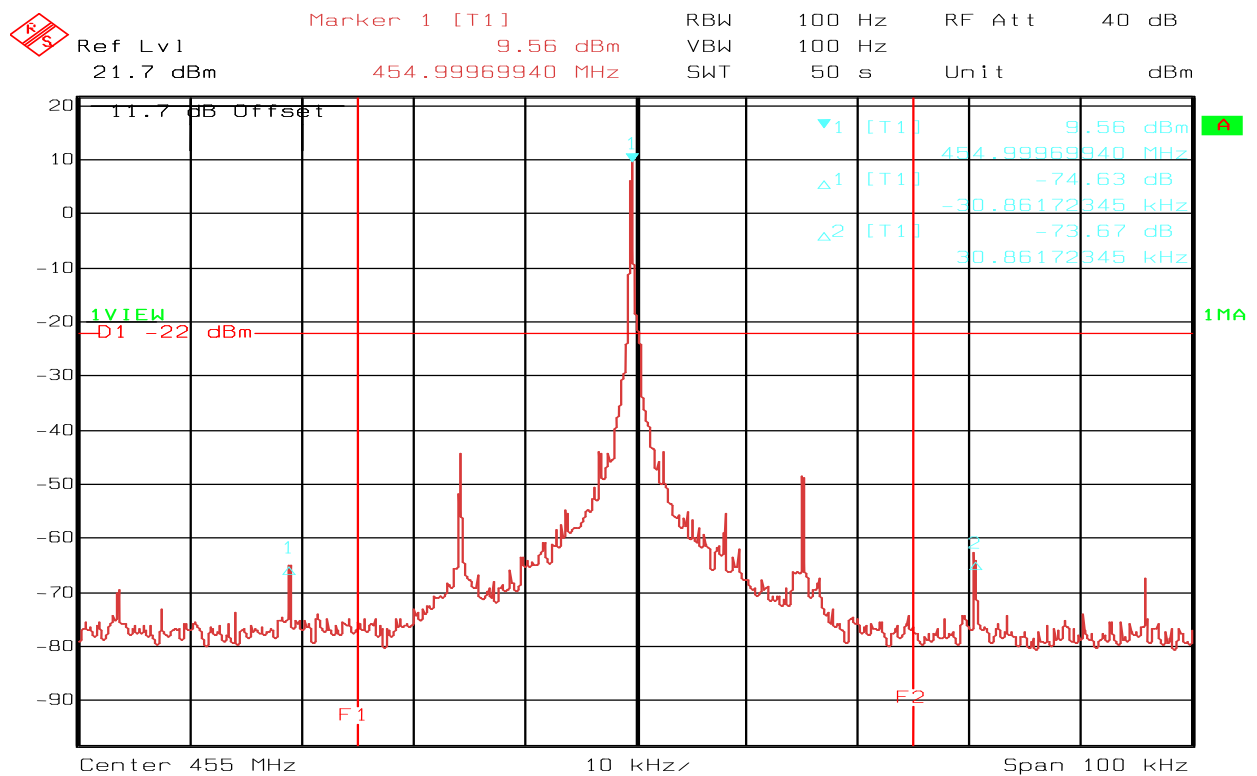


**FCC1 - 60 °C , 6.0Vdc - Lower frequency 450MHz - conducted power +10.33 dBm****FCC1 - 60 °C , 7.2Vdc - Lower frequency 450MHz - conducted power +15.62 dBm**

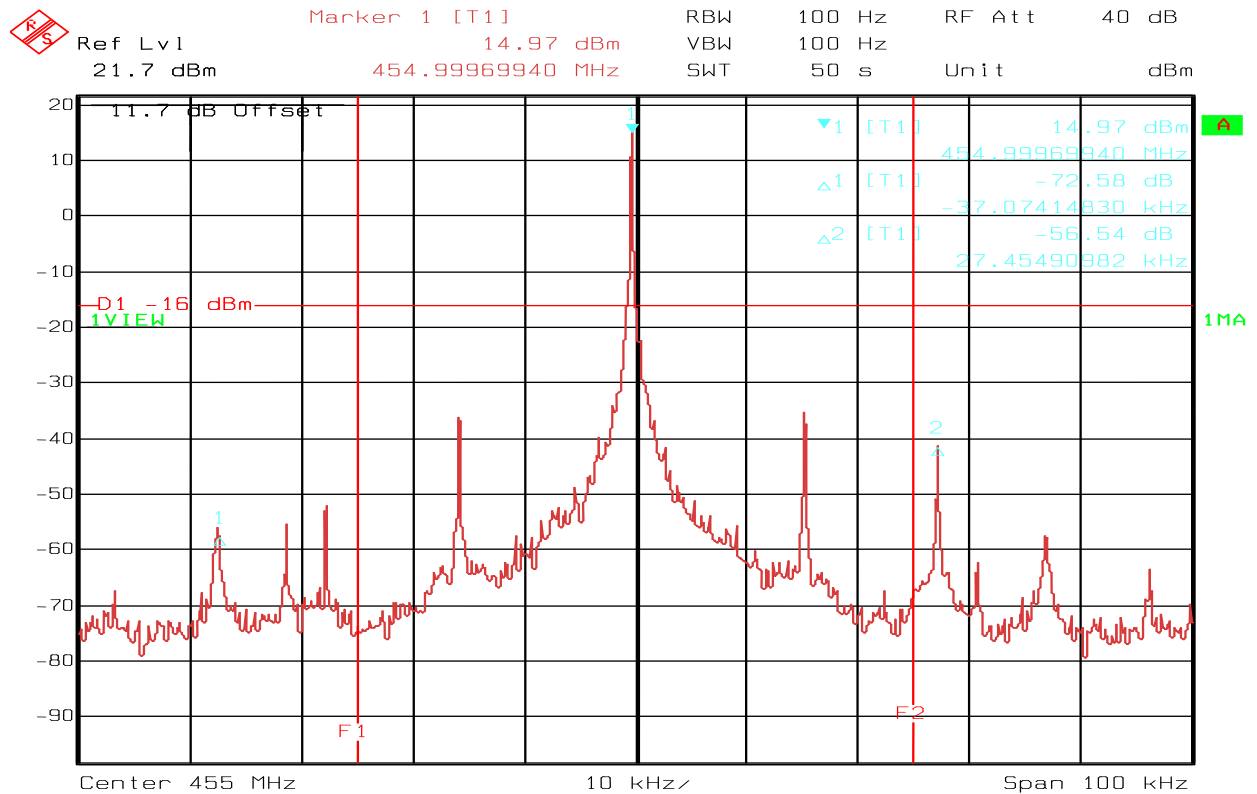


Date: 25.MAY.2005 20:41:22

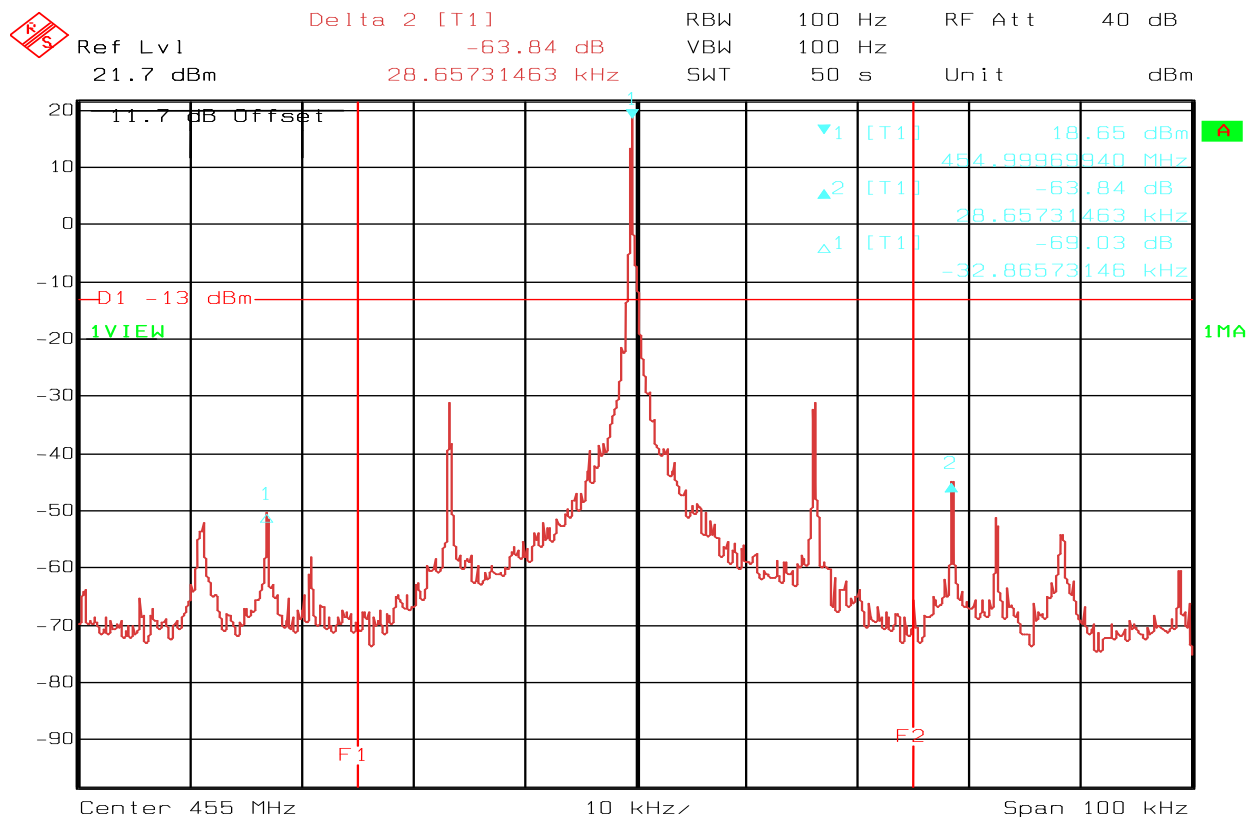
FCC1 - 60 °C , 9.1Vdc - Lower frequency 450MHz - conducted power +19.08 dBm

Date: 25.MAY.2005 20:30:49

FCC1 - 60 °C , 6.0Vdc - Middle frequency 455MHz - conducted power +9.58 dBm

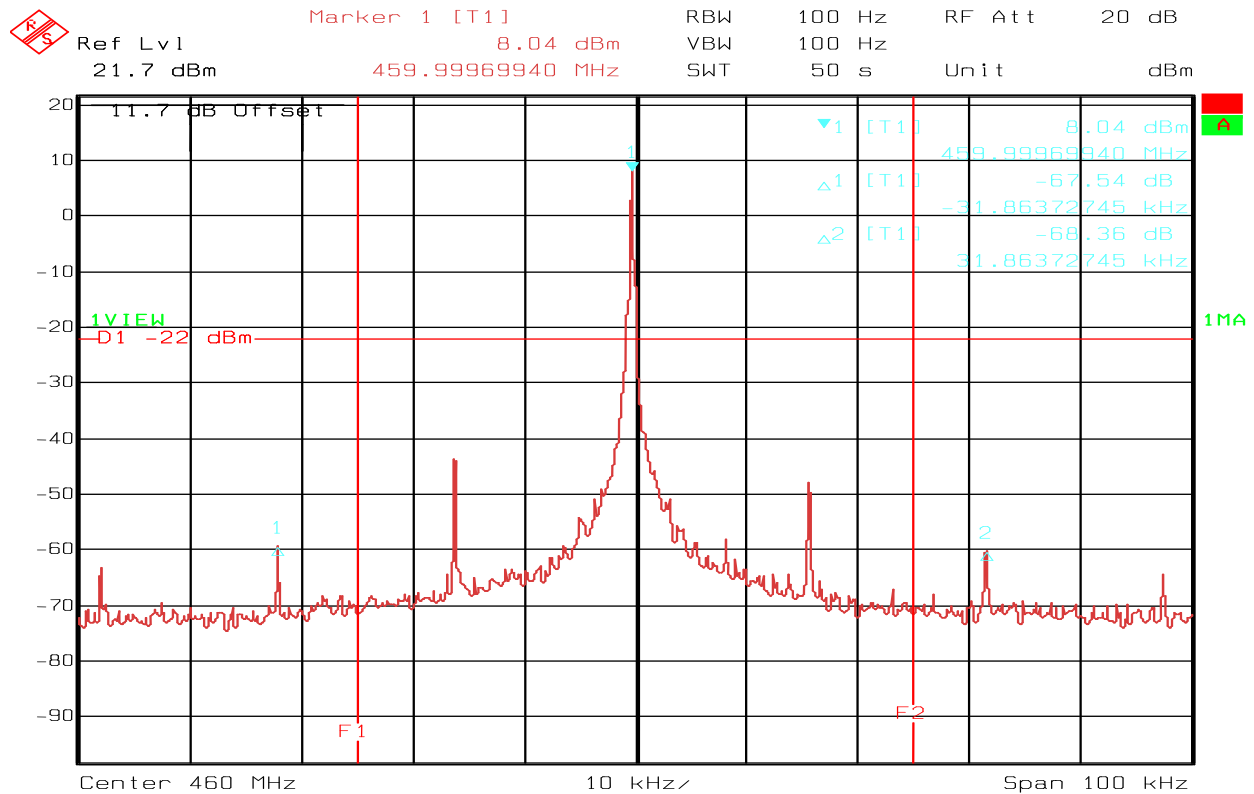
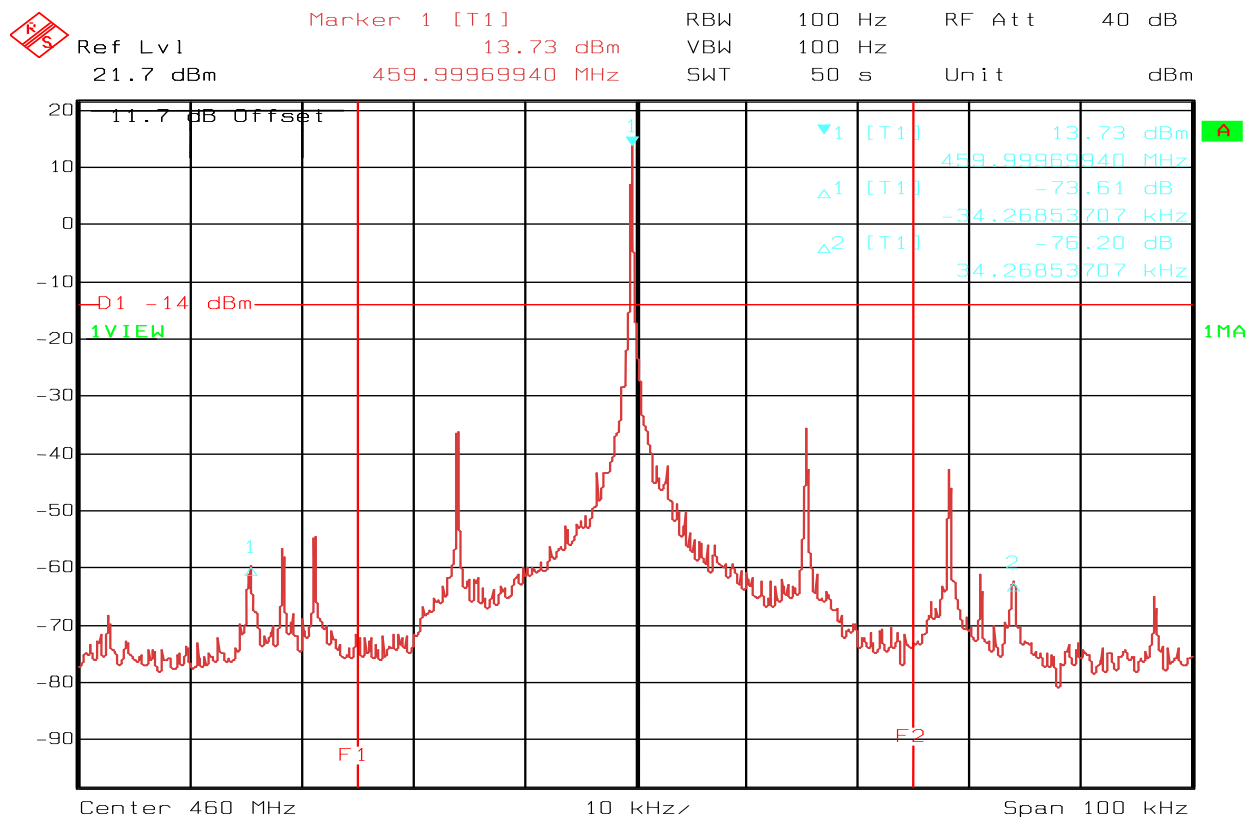


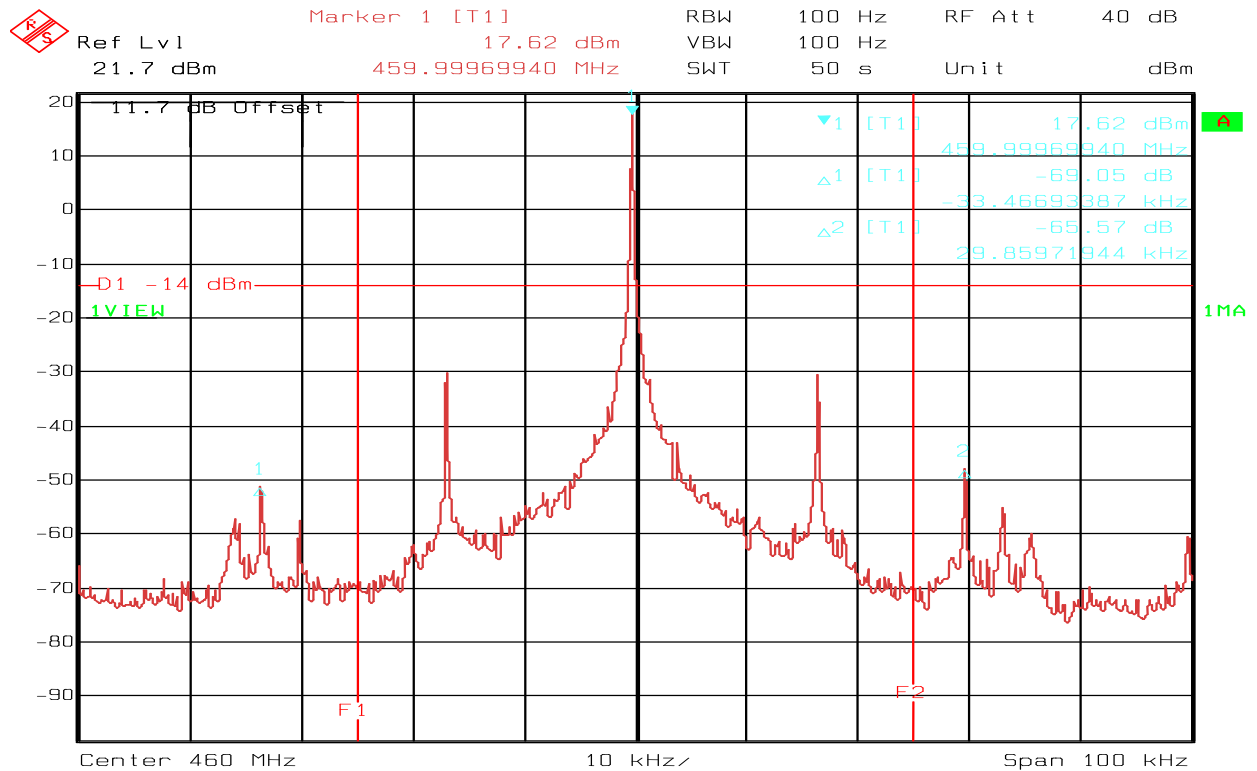
Date: 25.MAY.2005 20:28:18

FCC1 - 60 °C , 7.2Vdc - Middle frequency 455MHz - conducted power +14.97 dBm

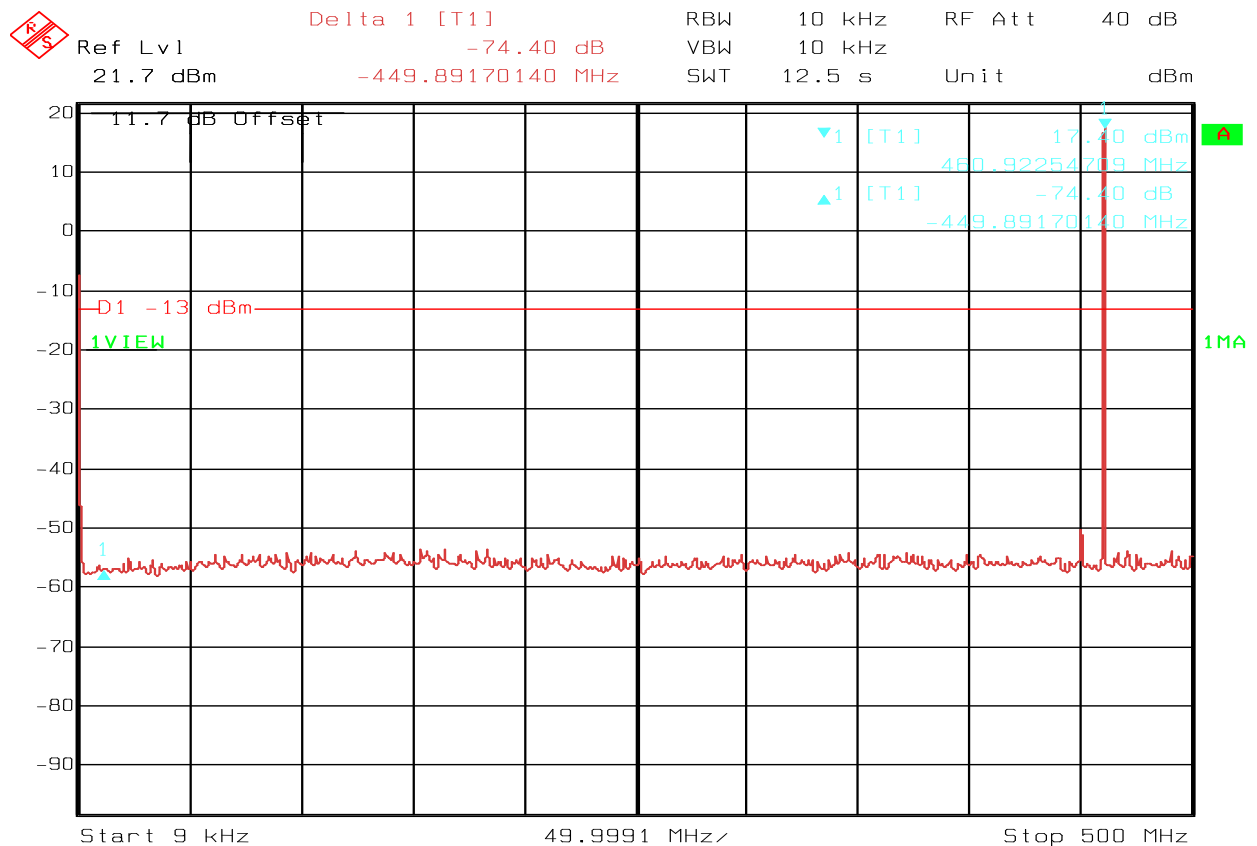
Date: 25.MAY.2005 20:26:14

FCC1 - 60 °C , 9.1Vdc - Middle frequency 455MHz - conducted power +18.55 dBm

**FCC1 - 60 °C , 6.0Vdc - Upper frequency 460MHz - conducted power +8.04 dBm****FCC1 - 60 °C , 7.2Vdc - Upper frequency 460MHz - conducted power +13.73 dBm**

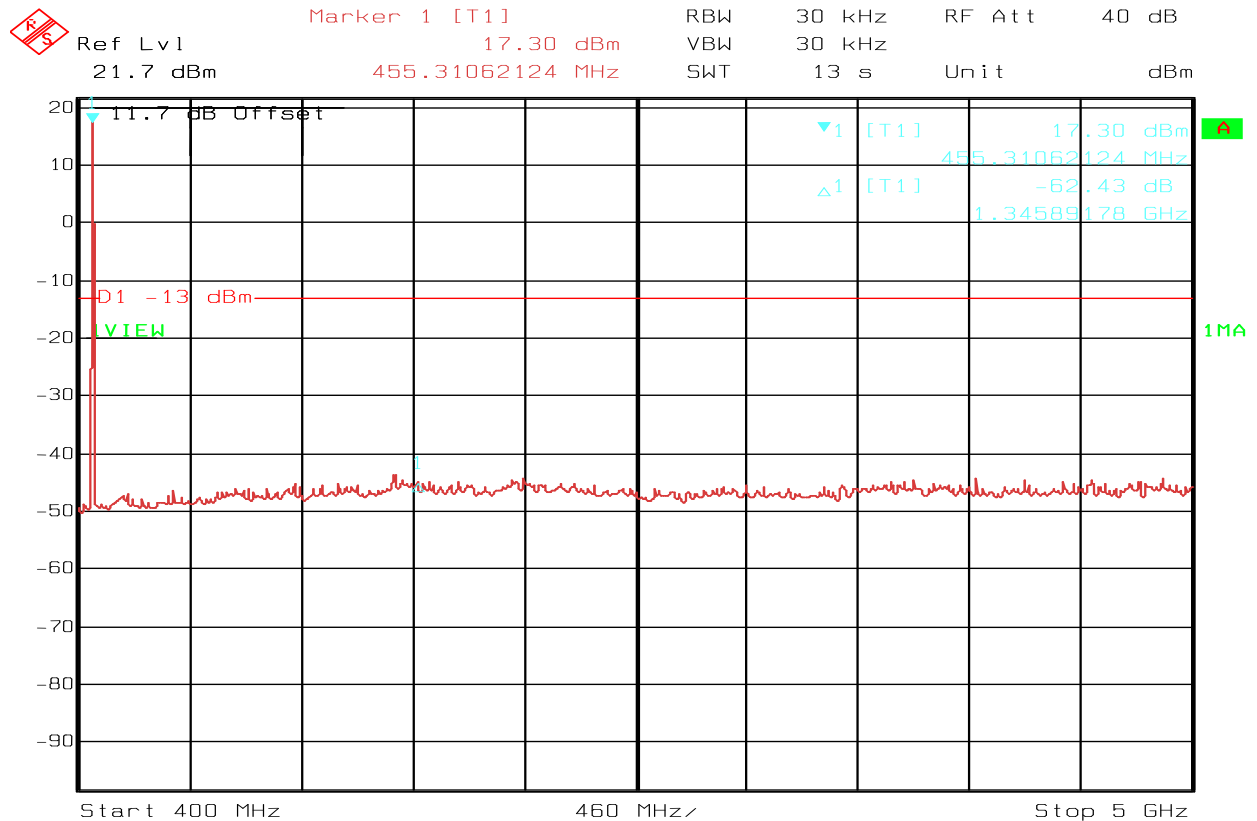


Date: 25.MAY.2005 20:10:29

FCC1 - 60 °C , 9.1Vdc - Upper frequency 460MHz - conducted power +17.62 dBm

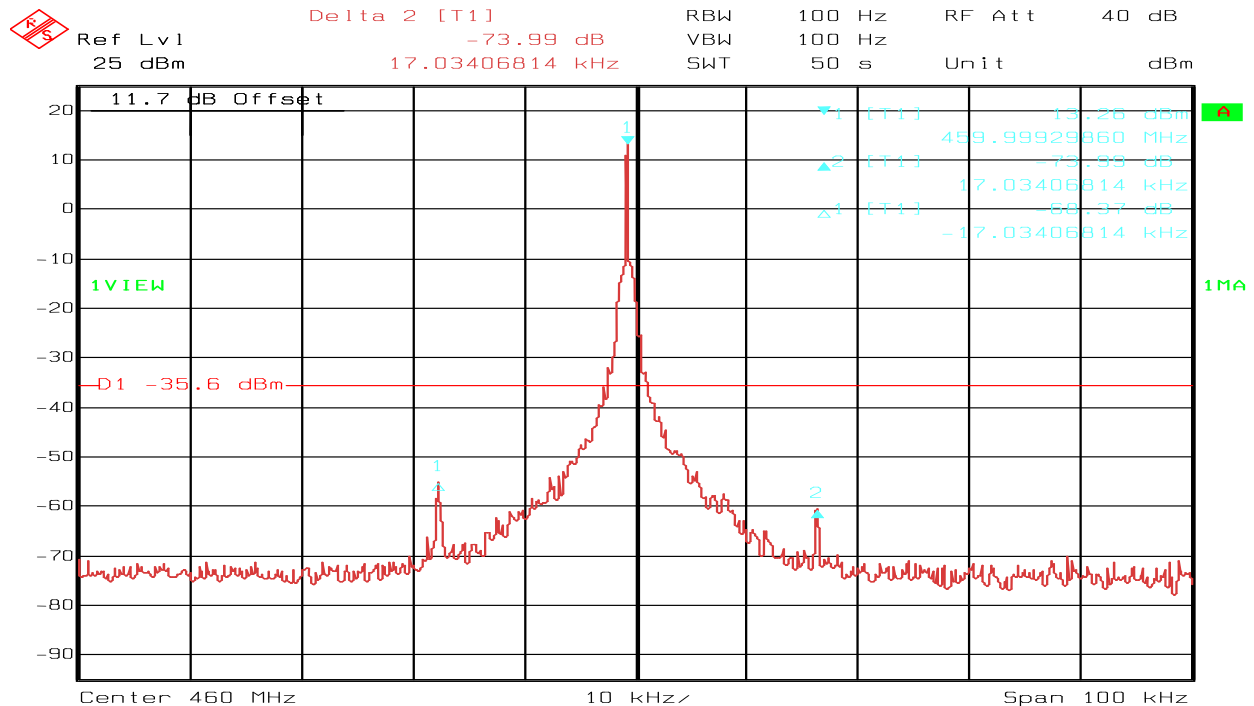
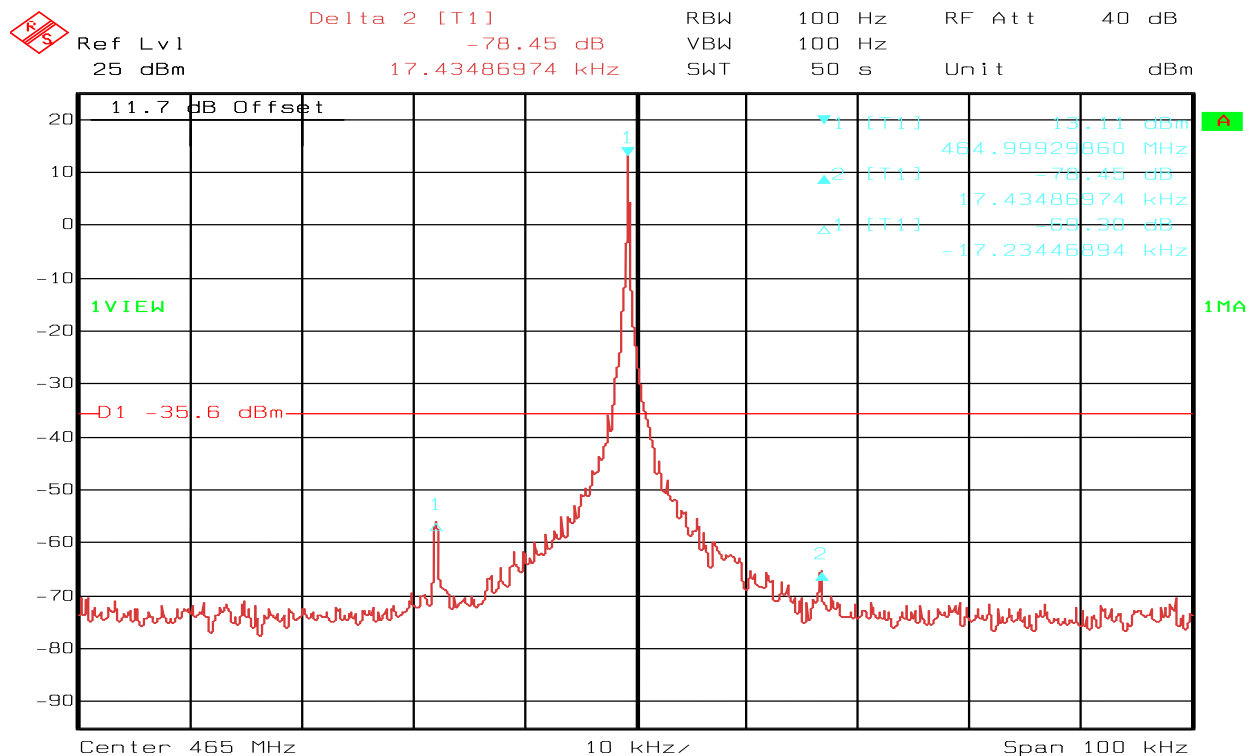
Date: 25.MAY.2005 20:21:38

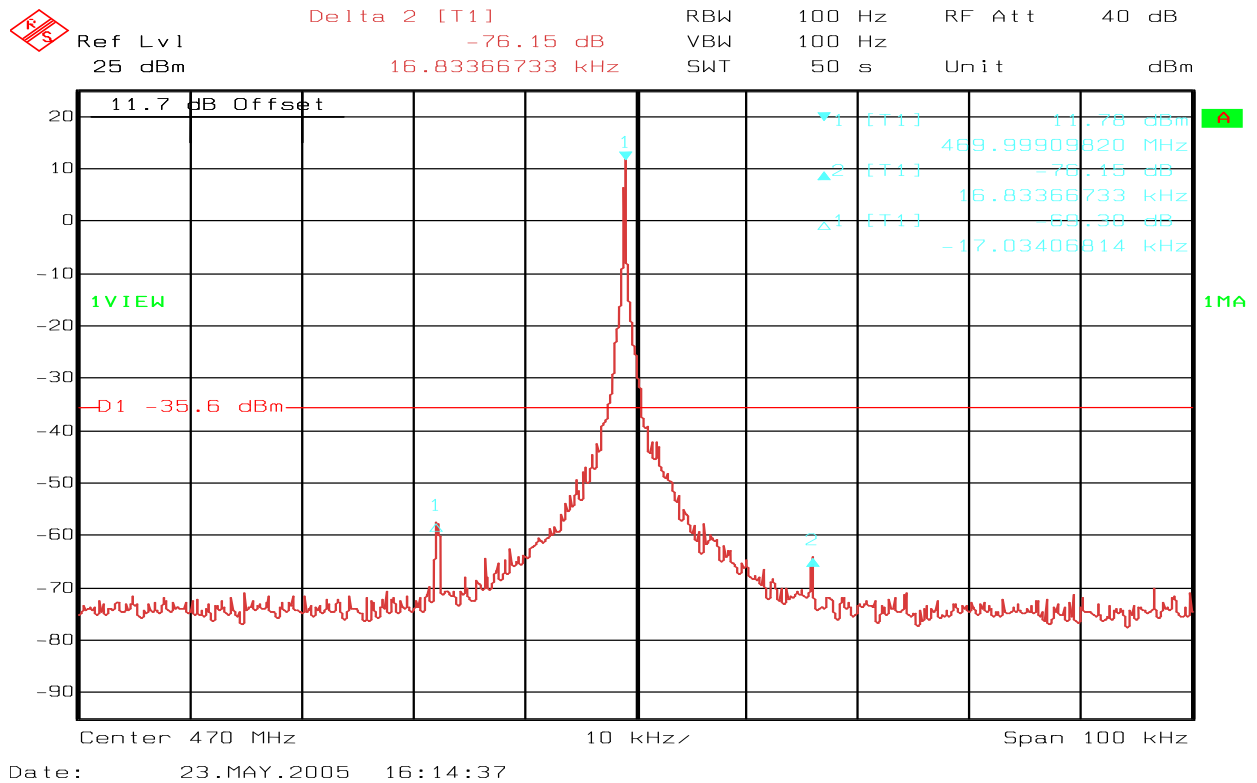
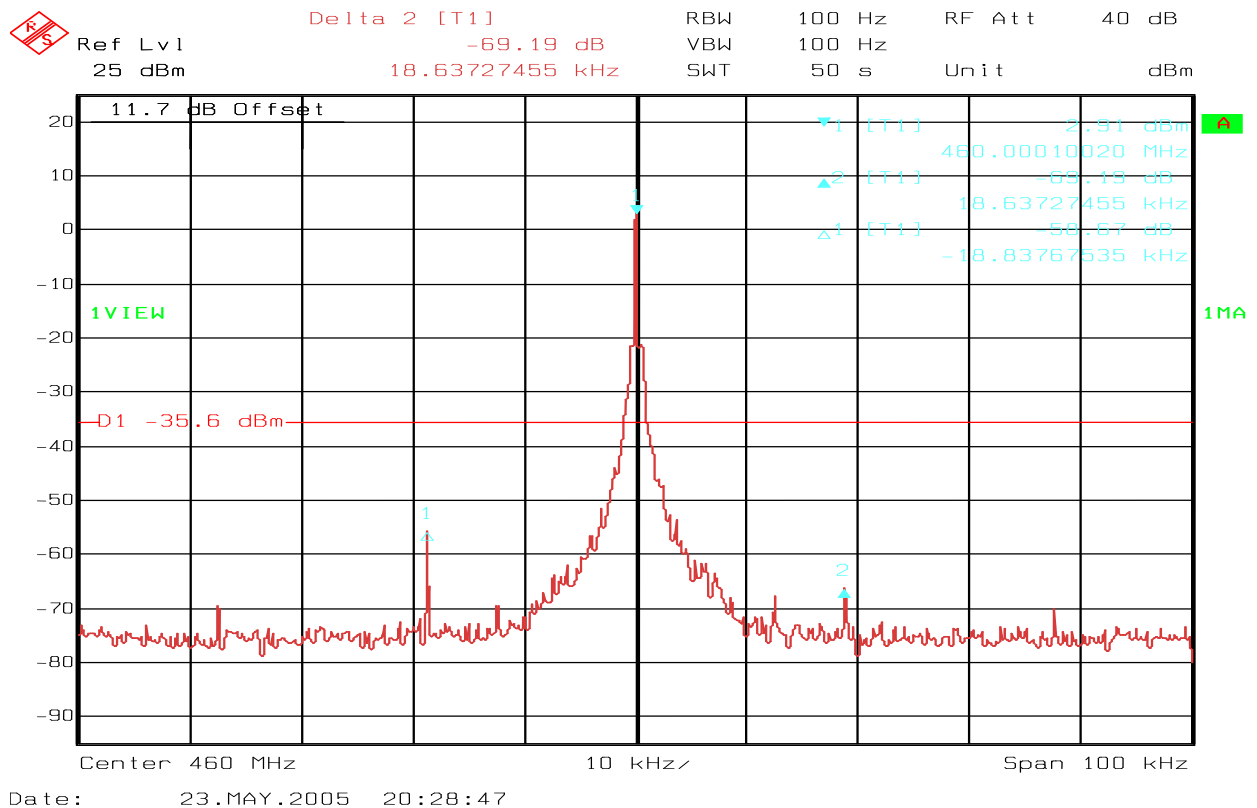
FCC1 - 60 °C , 9.1Vdc - Upper frequency 460MHz - Scan 9kHz – 500MHz

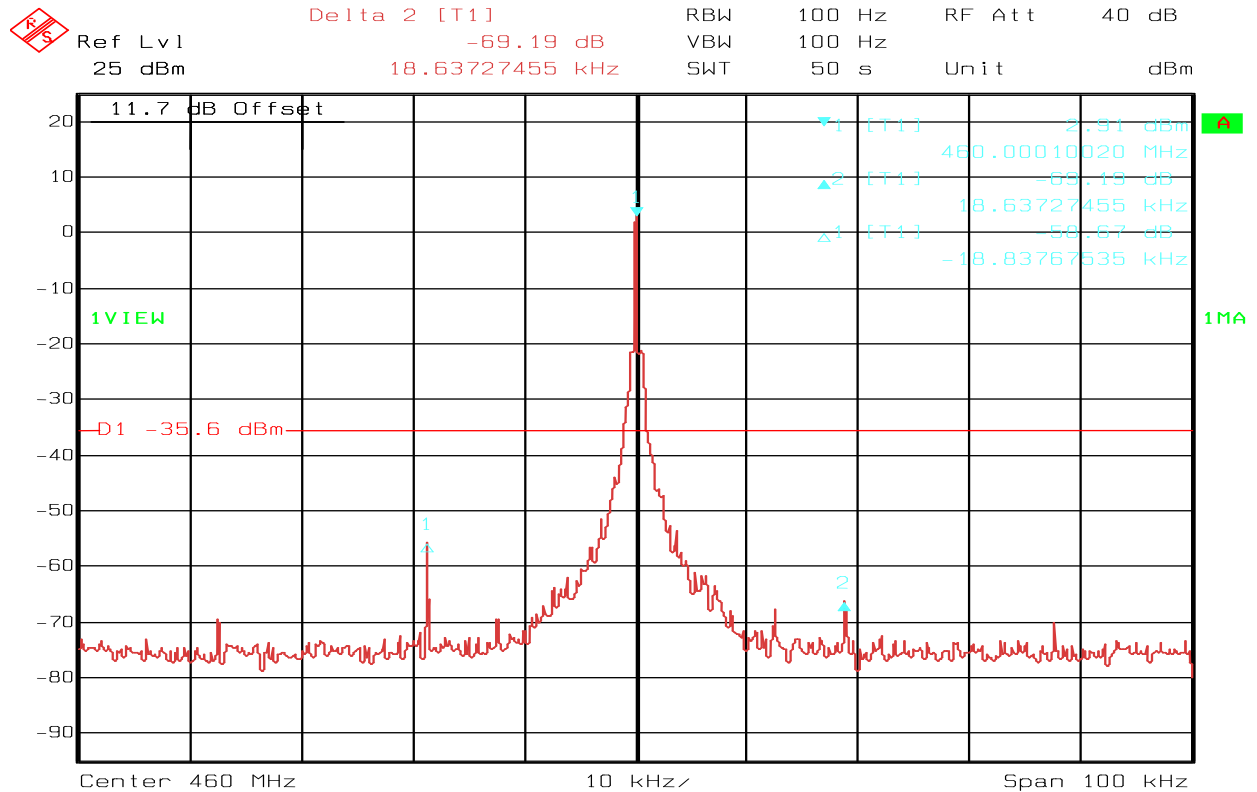


Date: 25.MAY.2005 20:23:01

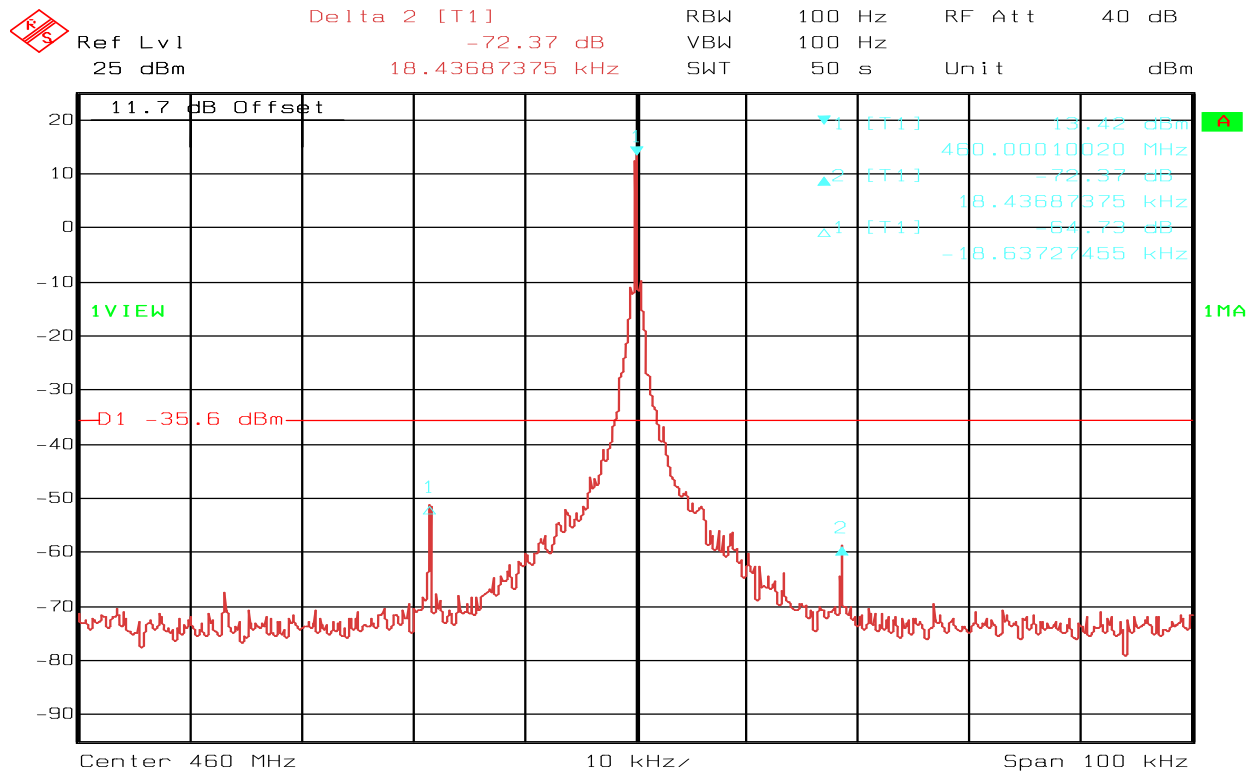
FCC1 - 60 °C , 9.1Vdc - Upper frequency 460MHz - Scan 400MHz – 5GHz

**FCC2 - -30 °C , 7.2 Vdc - Lower frequency 460MHz – conducted power +13.26 dBm****FCC2 - -30 °C , 7.2 Vdc - Middel frequency 465 MHz – Conducted power +13.11 dBm**

**FCC2 - -30 °C , 7.2Vdc - Upper frequency 470MHz – Conducted power + 11.78 dBm****FCC2 - -30 °C , 7.2Vdc - Lower frequency 460MHz - conducted power +15.30 dBm**

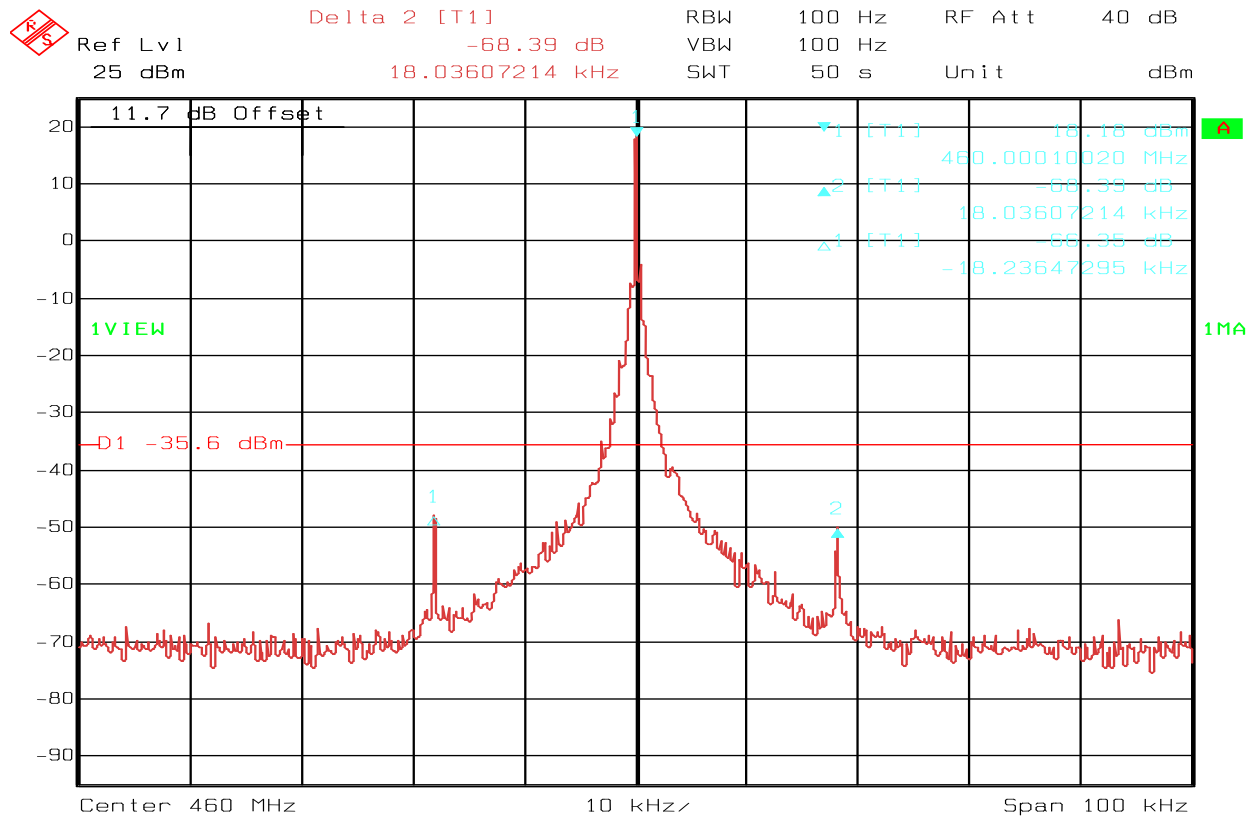
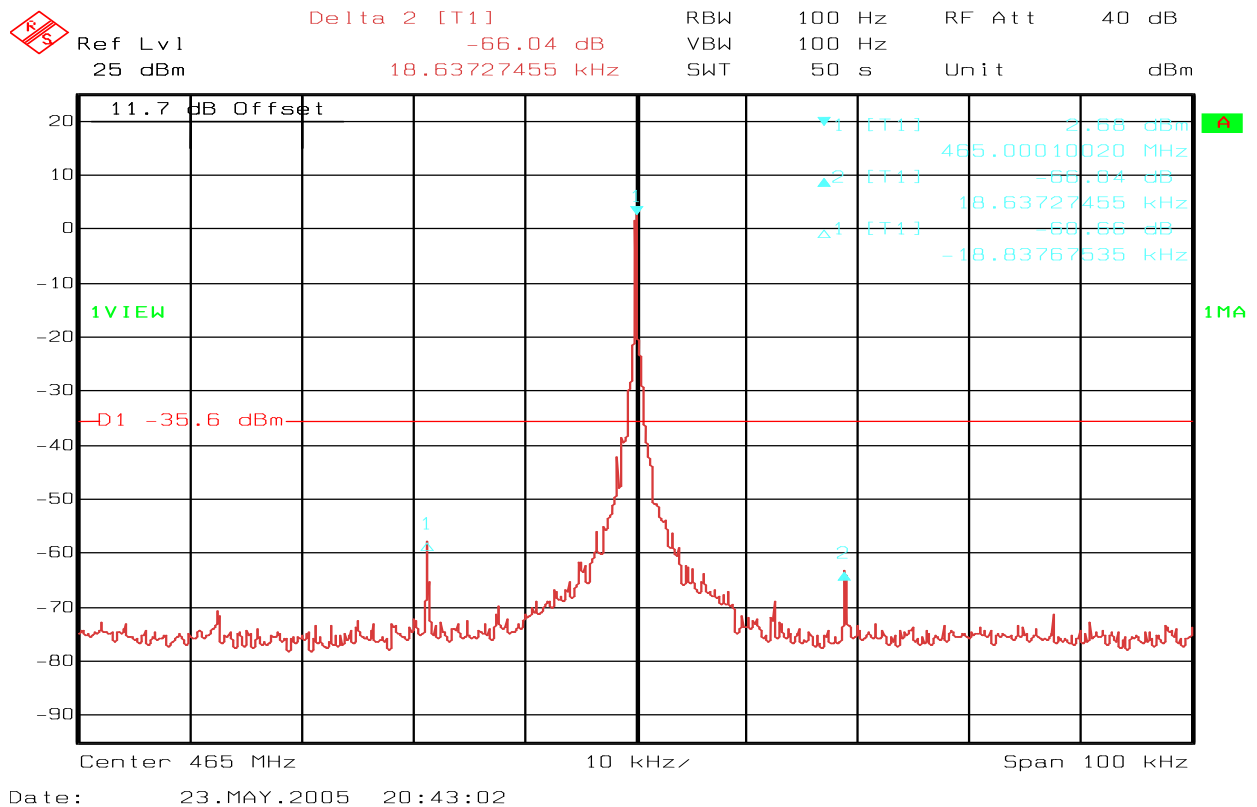


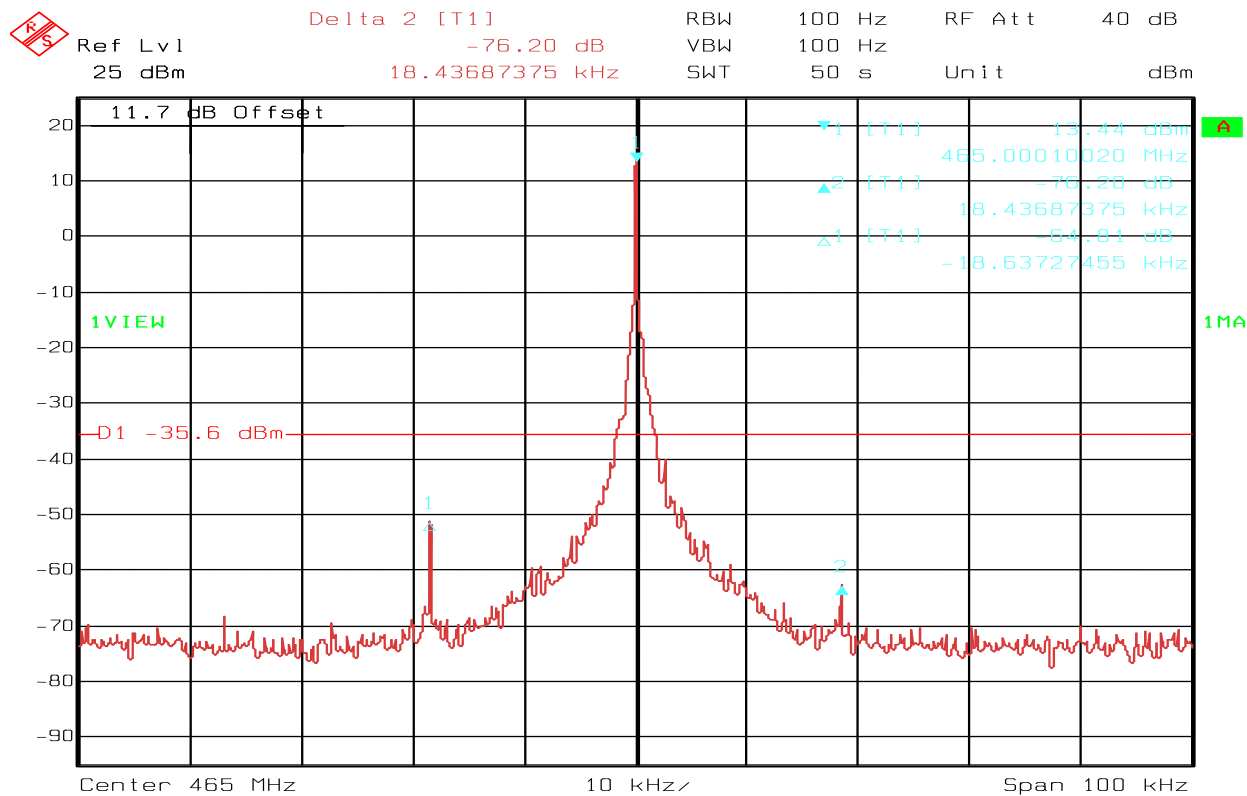
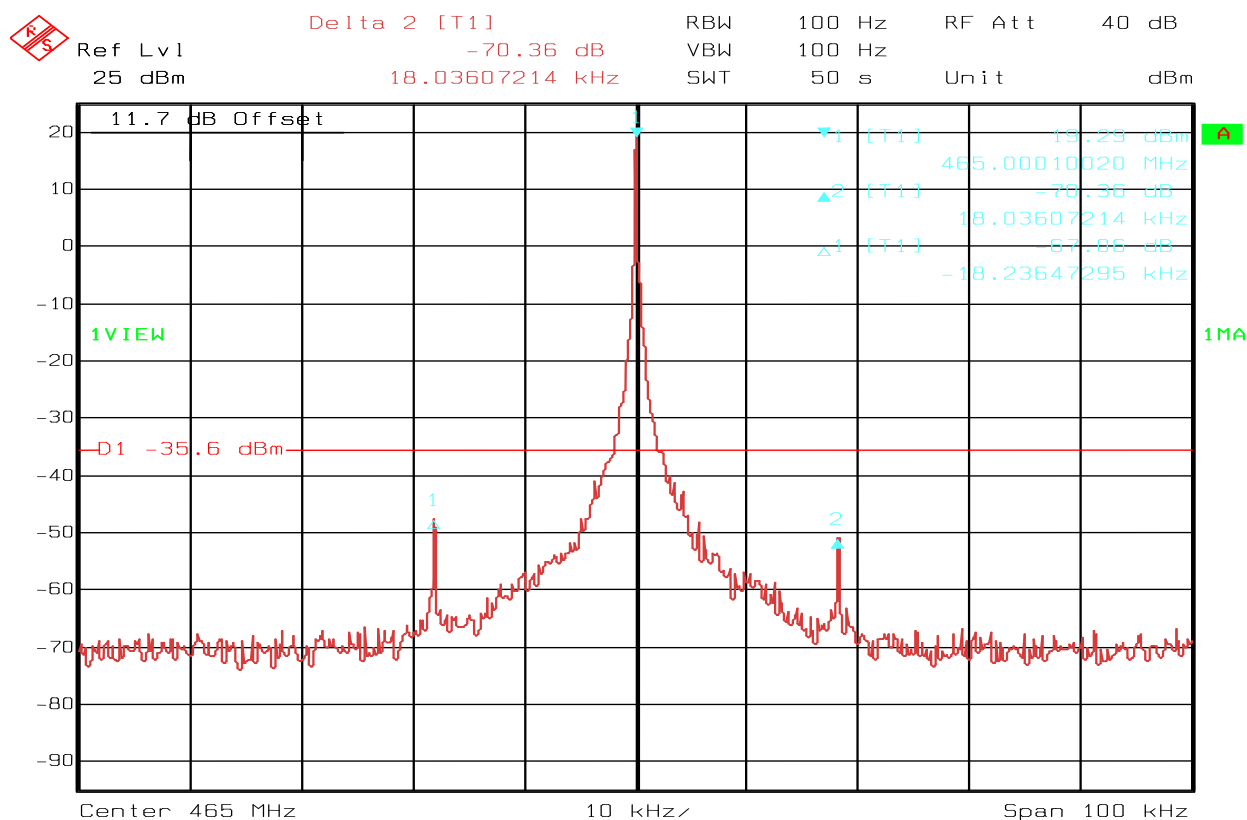
Date: 23.MAY.2005 20:28:47

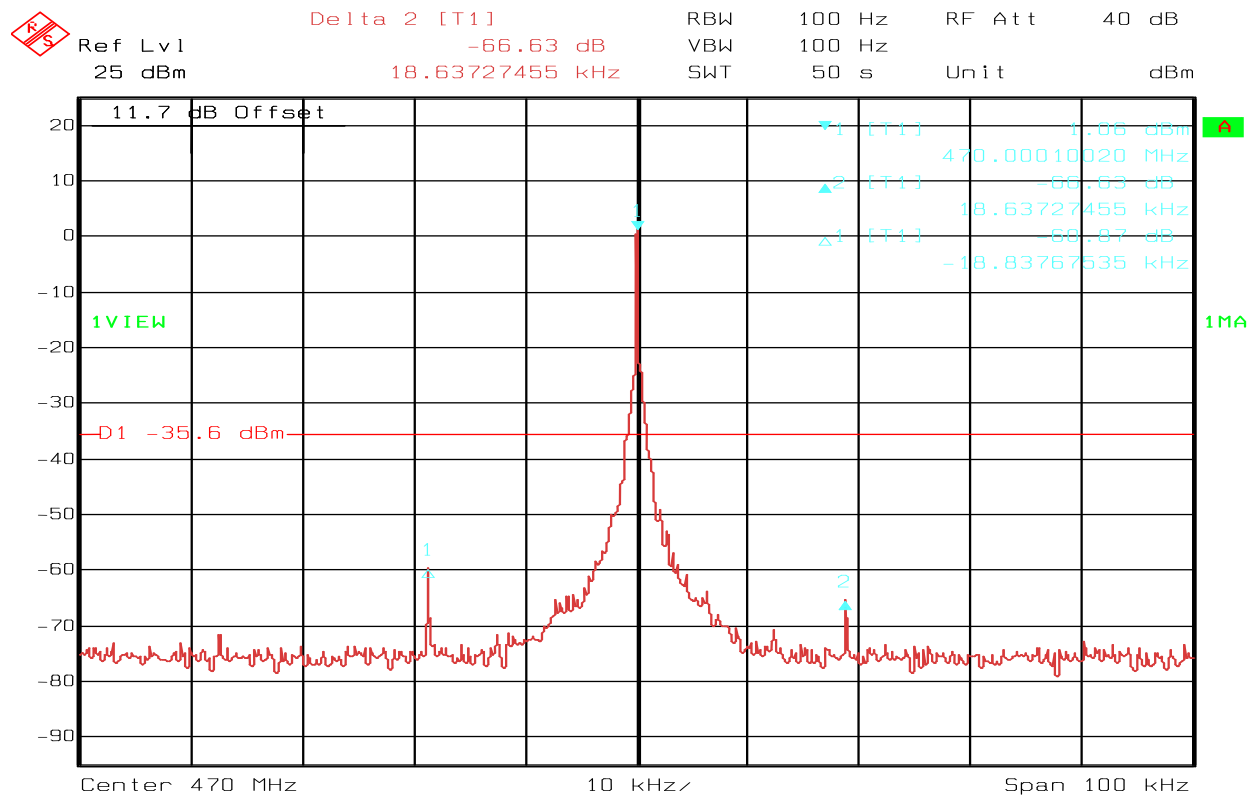
FCC2 - -20 °C , 6.0Vdc - Lower frequency 460MHz – conducted power +2.91 dBm

Date: 23.MAY.2005 20:30:56

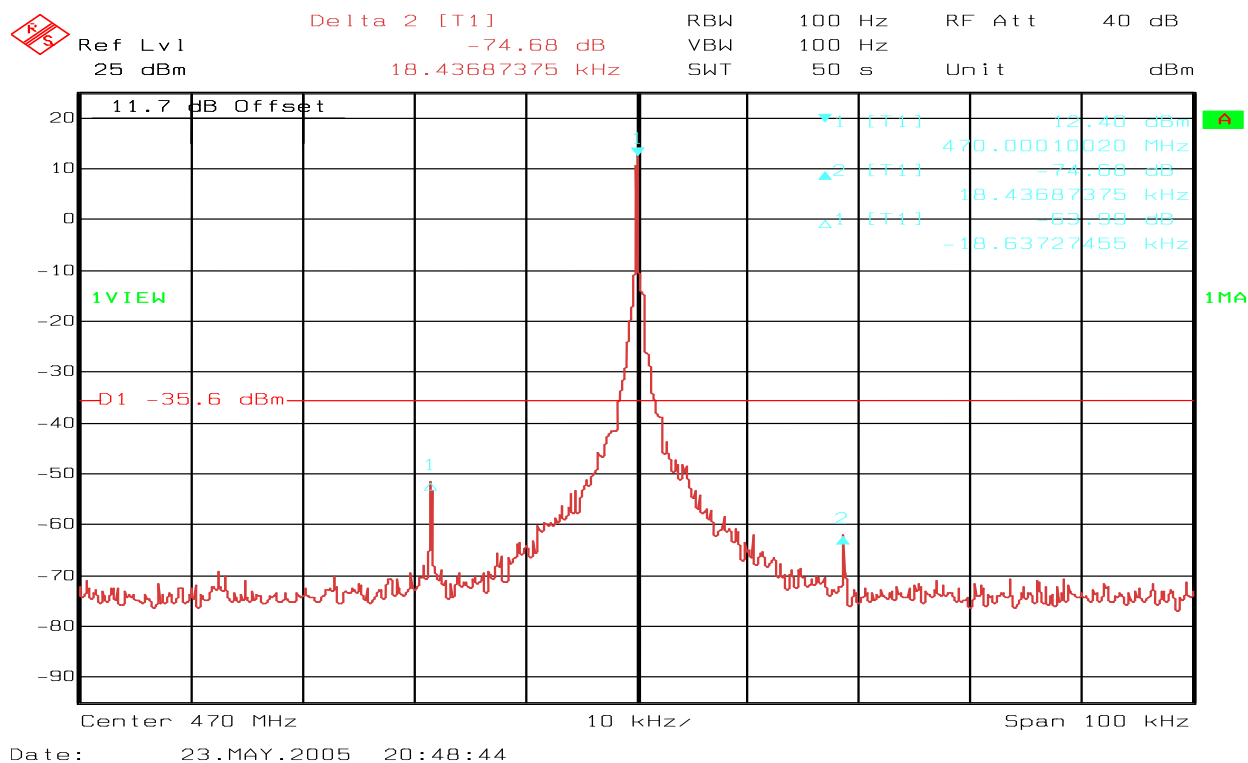
FCC2 - -20 °C , 7.2 Vdc - Lower frequency 460MHz – conducted power +13.42 dBm

**FCC2 - -20 °C , 9.1 Vdc - Lower frequency 460MHz – conducted power +18.18 dBm****FCC2 - -20 °C , 6.0 Vdc - Middel frequency 465MHz – conducted power +2.68 dBm**

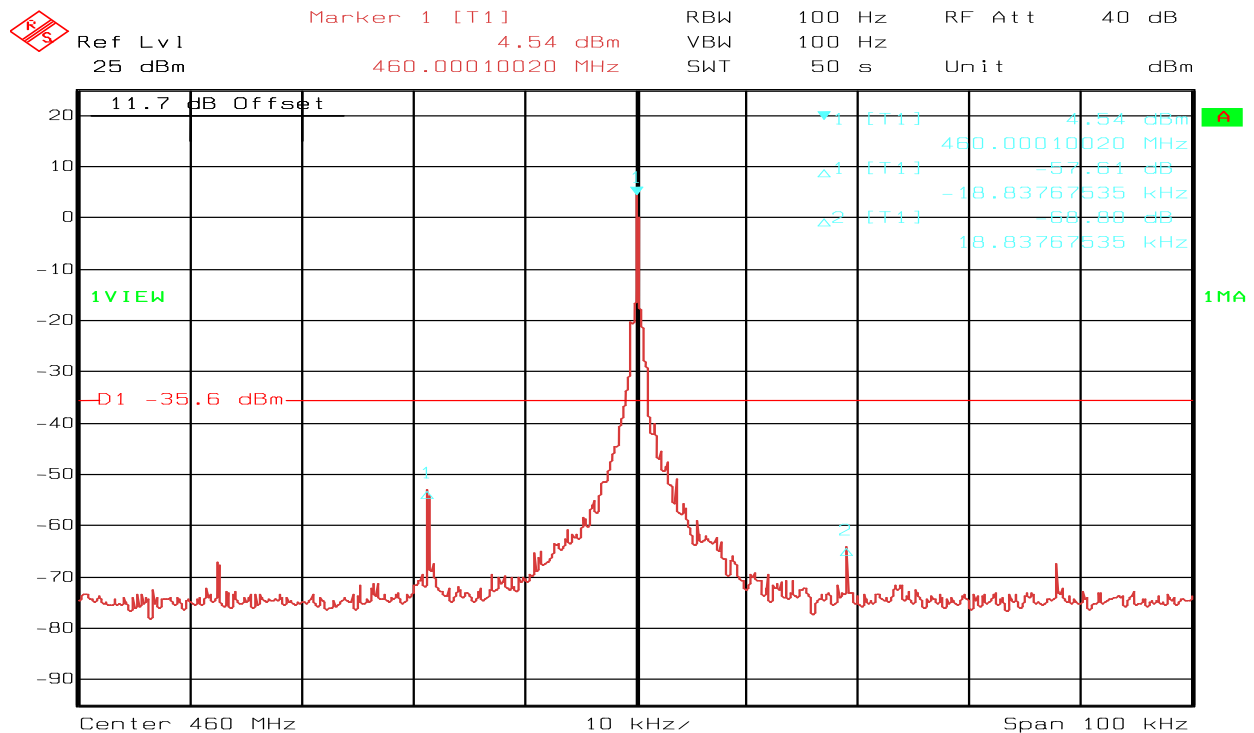
**FCC2 - -20 °C , 7.2 Vdc - Middel frequency 465MHz – conducted power +13.44 dBm****FCC2 - -20 °C , 9.1 Vdc - Middel frequency 465MHz – conducted power +19.29 dBm**



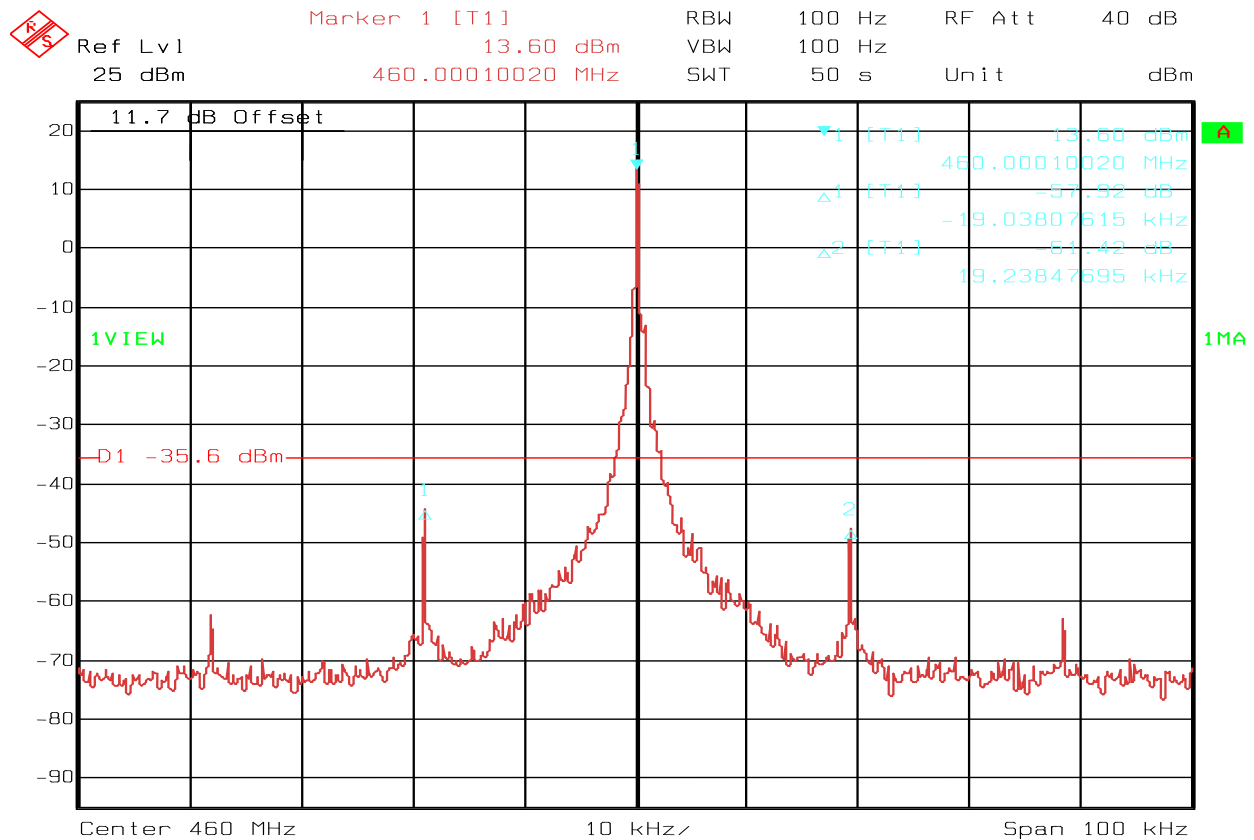
FCC2 - -20 °C , 6.0 Vdc - Upper frequency 470MHz – conducted power +1.06 dBm



FCC2 - -20 °C , 9.1 Vdc - Upper frequency 470MHz – conducted power +12.40 dBm

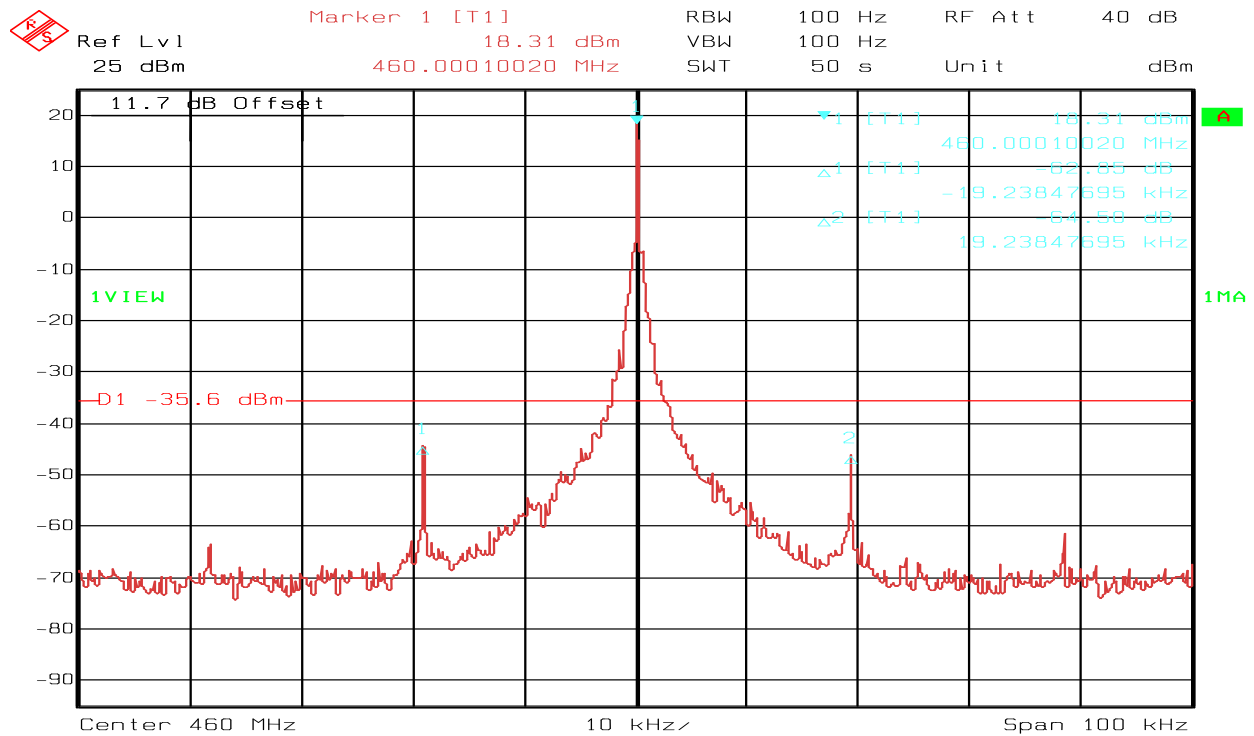


Date: 23.MAY.2005 23:09:49

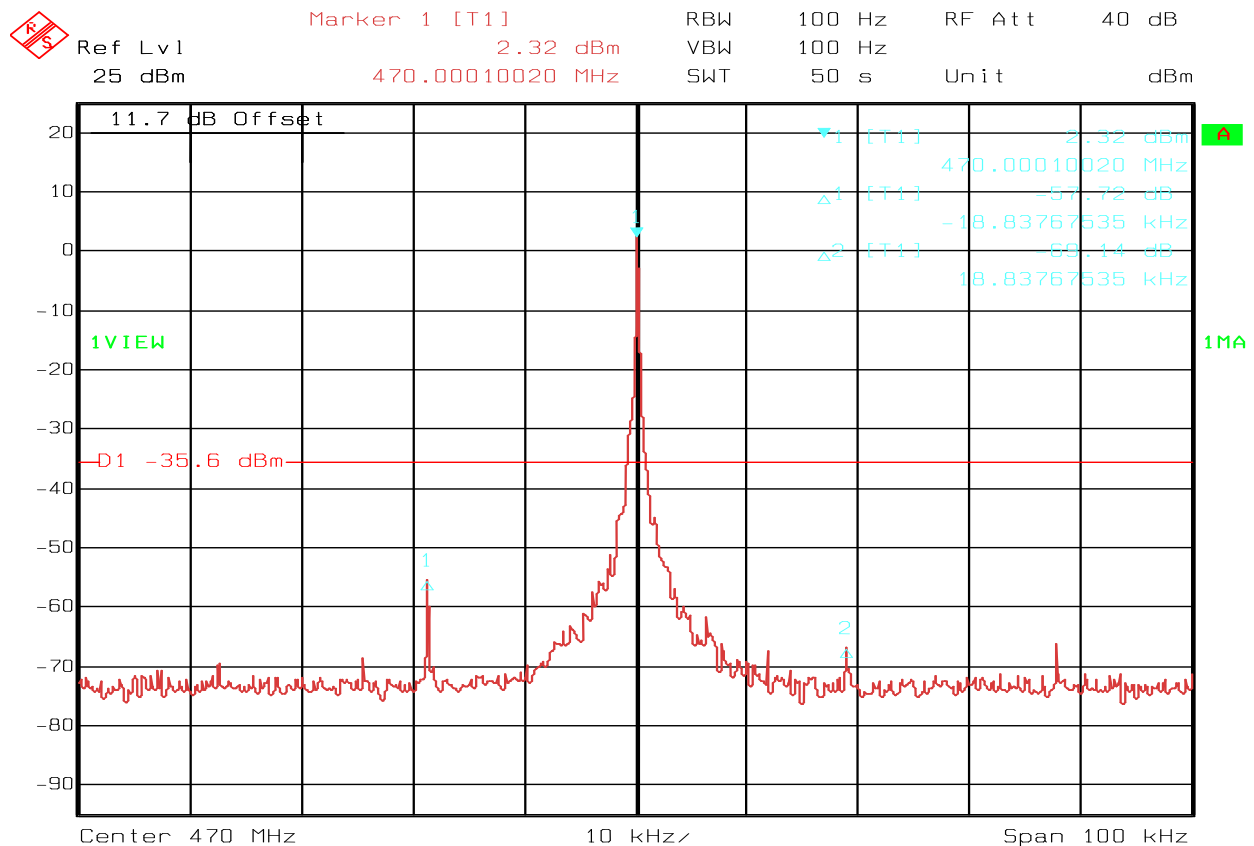
FCC2 - -10 °C , 6.0 Vdc - Lower frequency 460MHz – conducted power +4.54 dBm

Date: 23.MAY.2005 23:12:11

FCC2 - -10 °C , 7.2 Vdc - Lower frequency 460MHz – conducted power +13.60 dBm

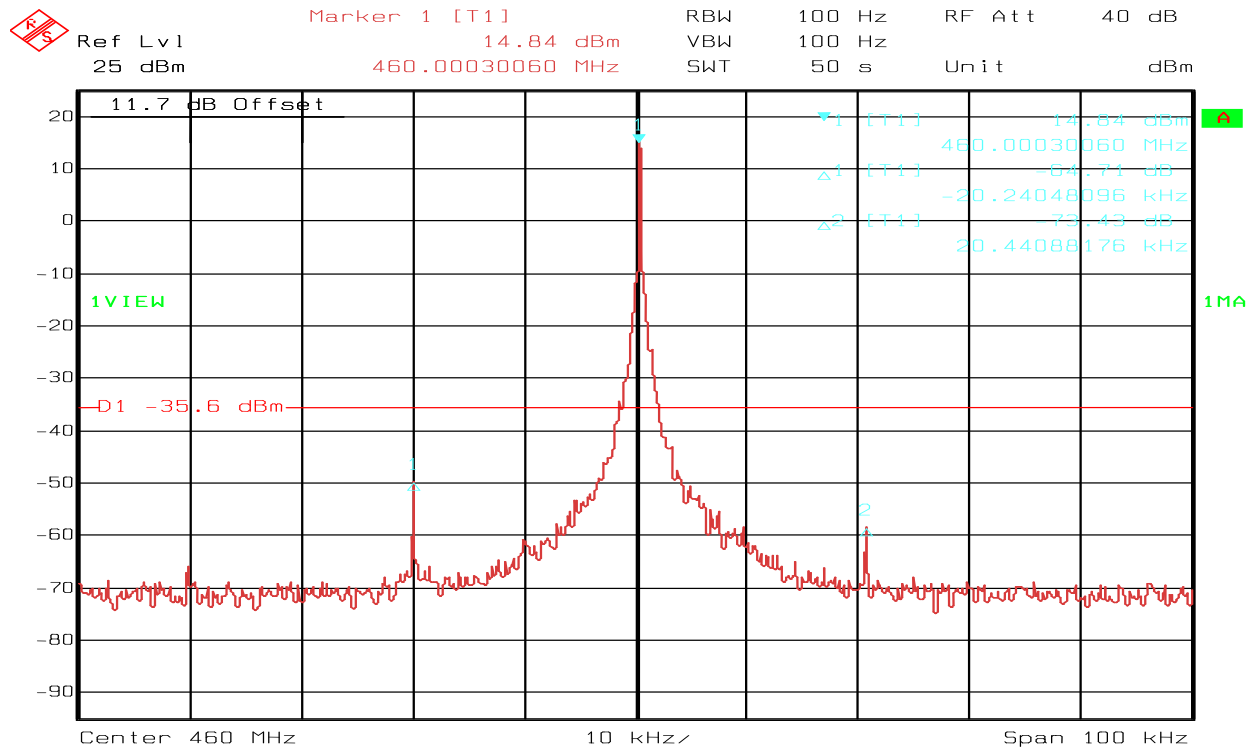


Date: 23.MAY.2005 23:06:49

FCC2 - -10 °C , 9.1 Vdc - Lower frequency 460MHz – conducted power +18.31 dBm

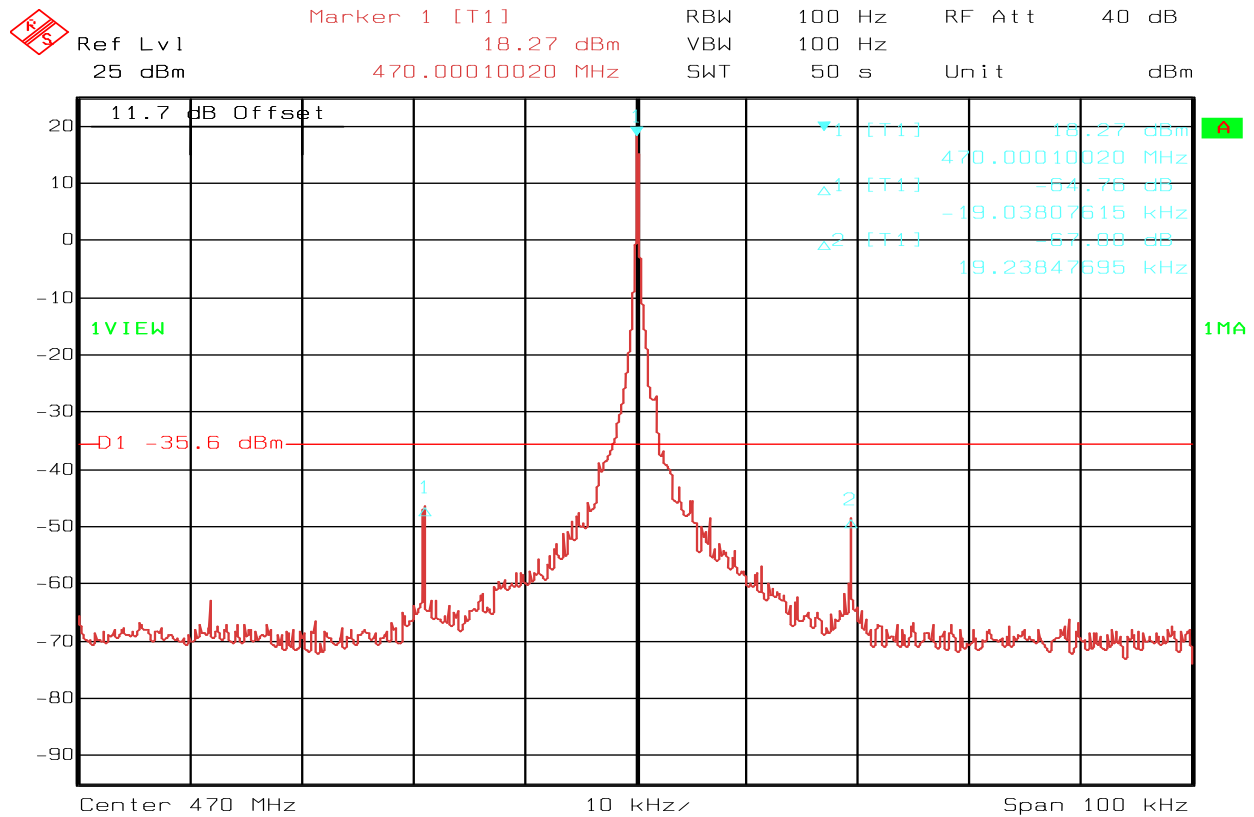
Date: 23.MAY.2005 22:56:12

FCC2 - -10 °C , 6.0 Vdc - Upper frequency 470MHz – conducted power +2.32 dBm



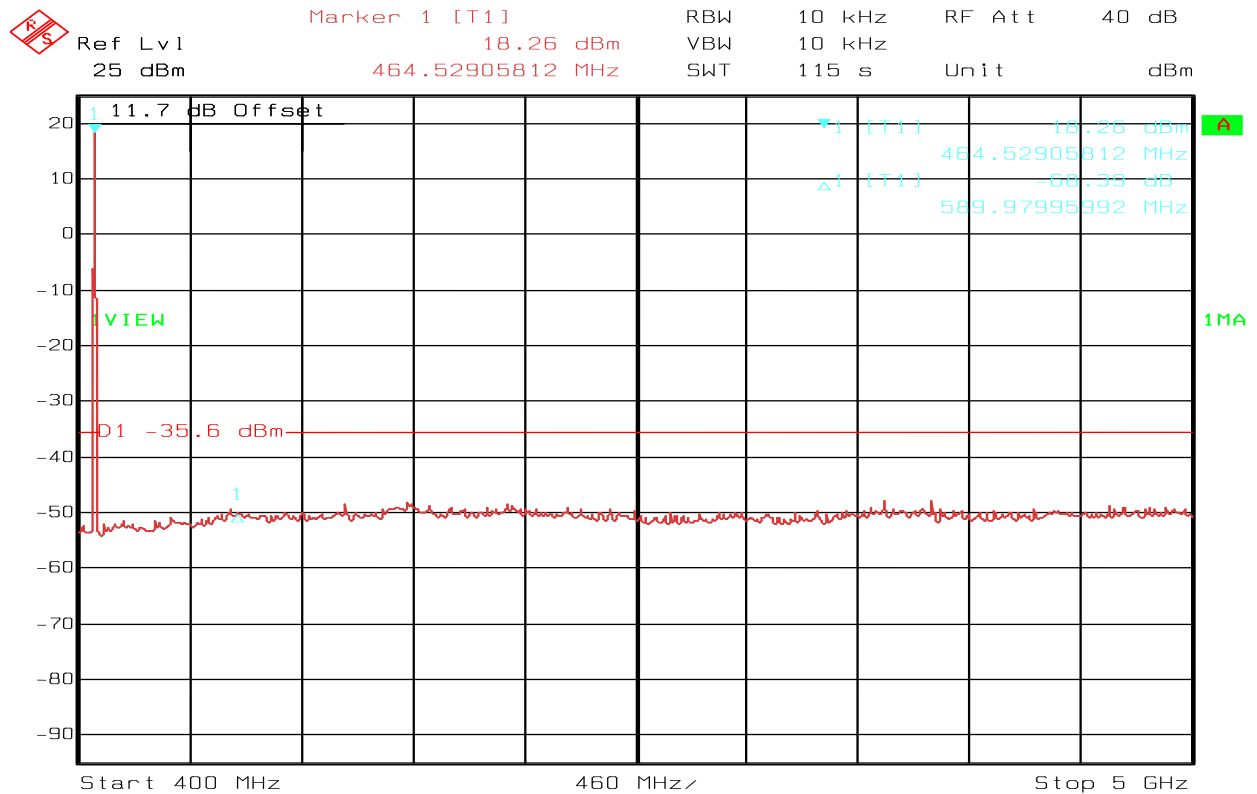
Date: 23.MAY.2005 22:49:38

FCC2 - -10 °C , 7.2 Vdc - Upper frequency 470MHz – conducted power +14.84 dBm

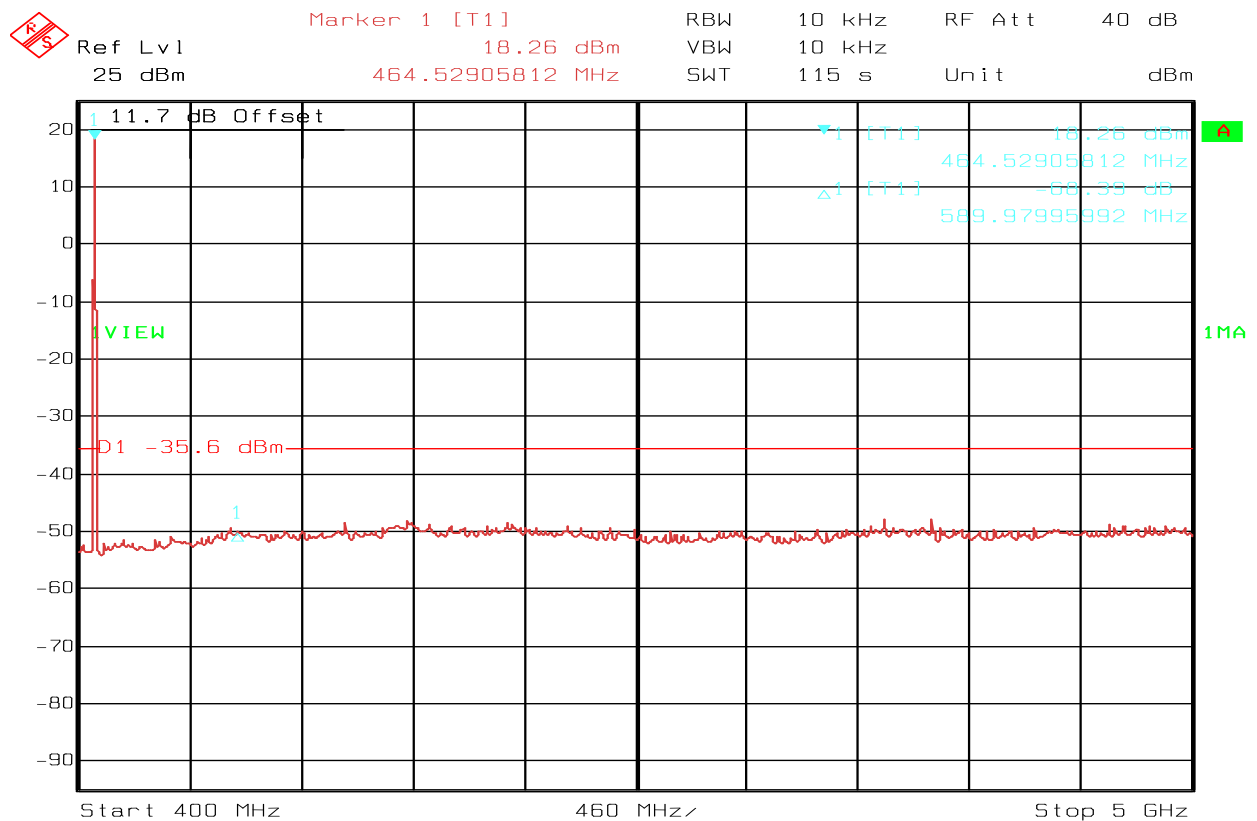


Date: 23.MAY.2005 22:58:18

FCC2 - -10 °C , 9.1 Vdc - Upper frequency 470MHz – conducted power +18.27 dBm

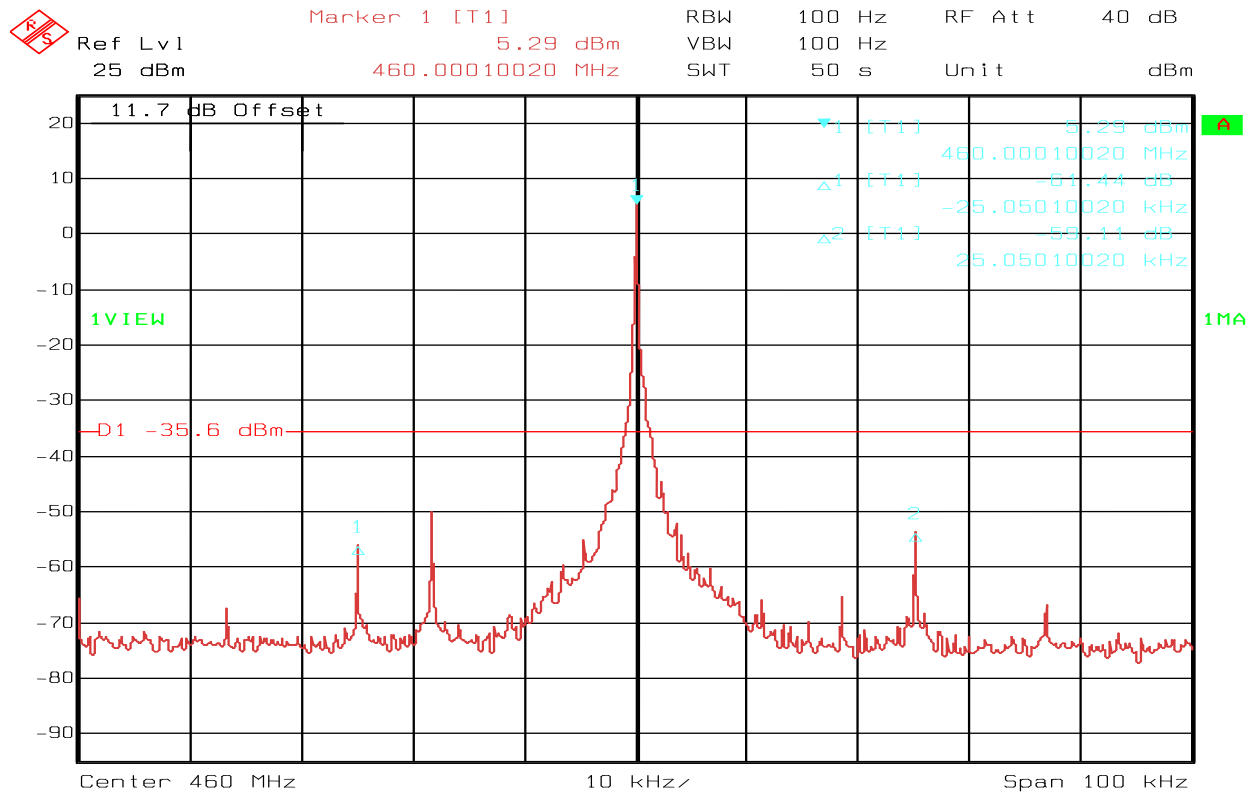
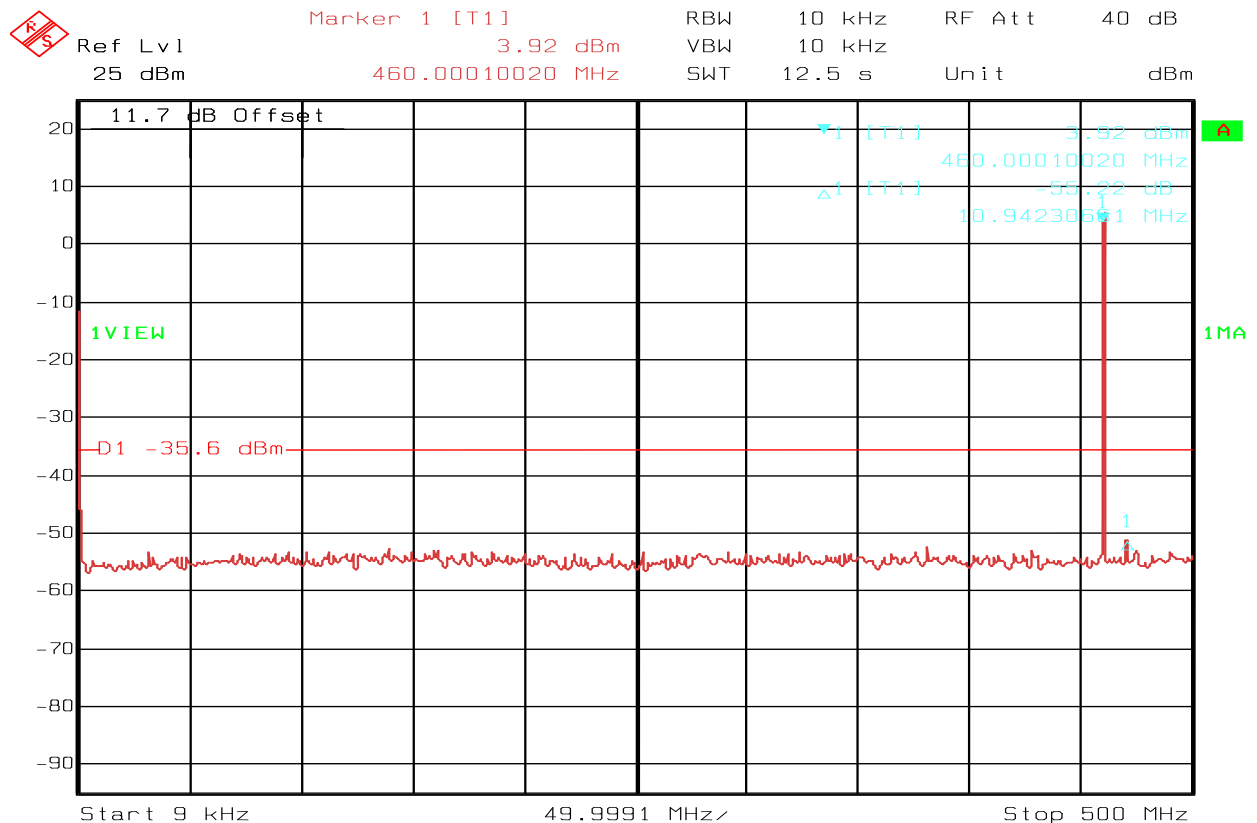


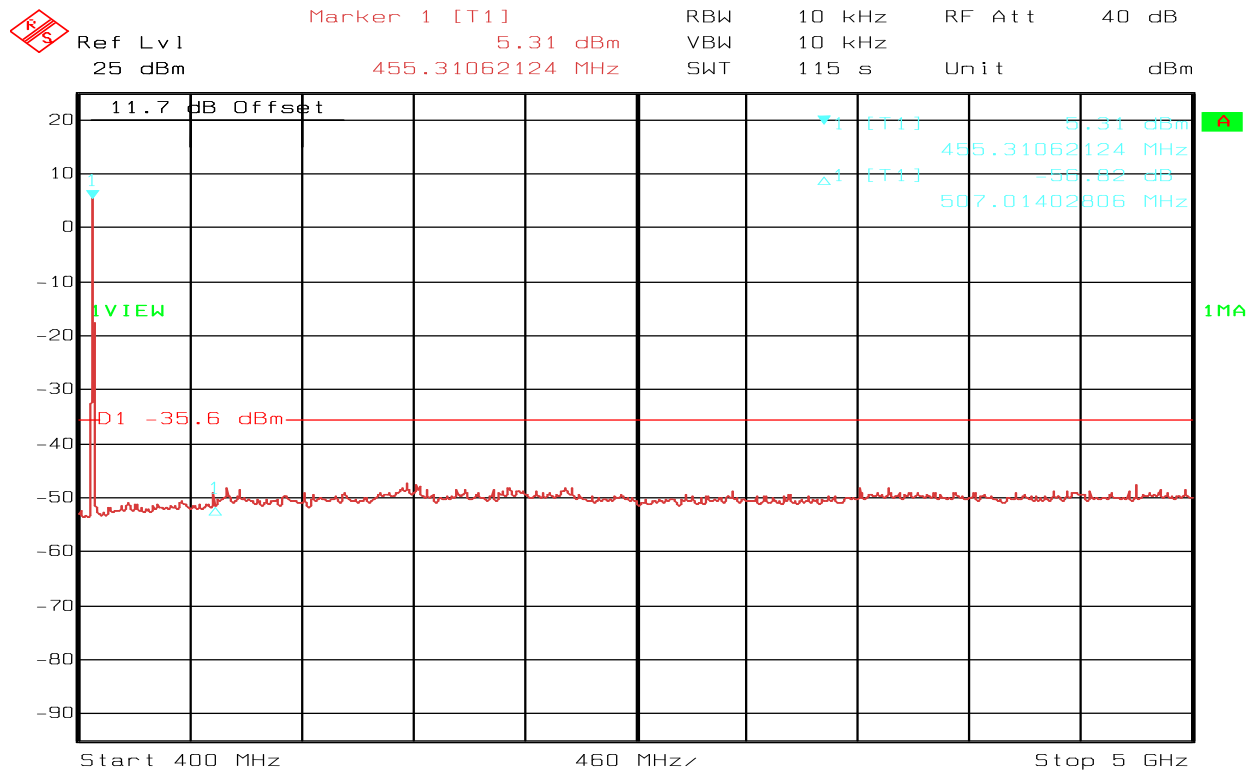
Date: 23.MAY.2005 23:04:00

FCC2 - -10 °C , 9.1 Vdc - Upper frequency 470MHz – Scan from 9kHz to 500 MHz

Date: 23.MAY.2005 23:04:00

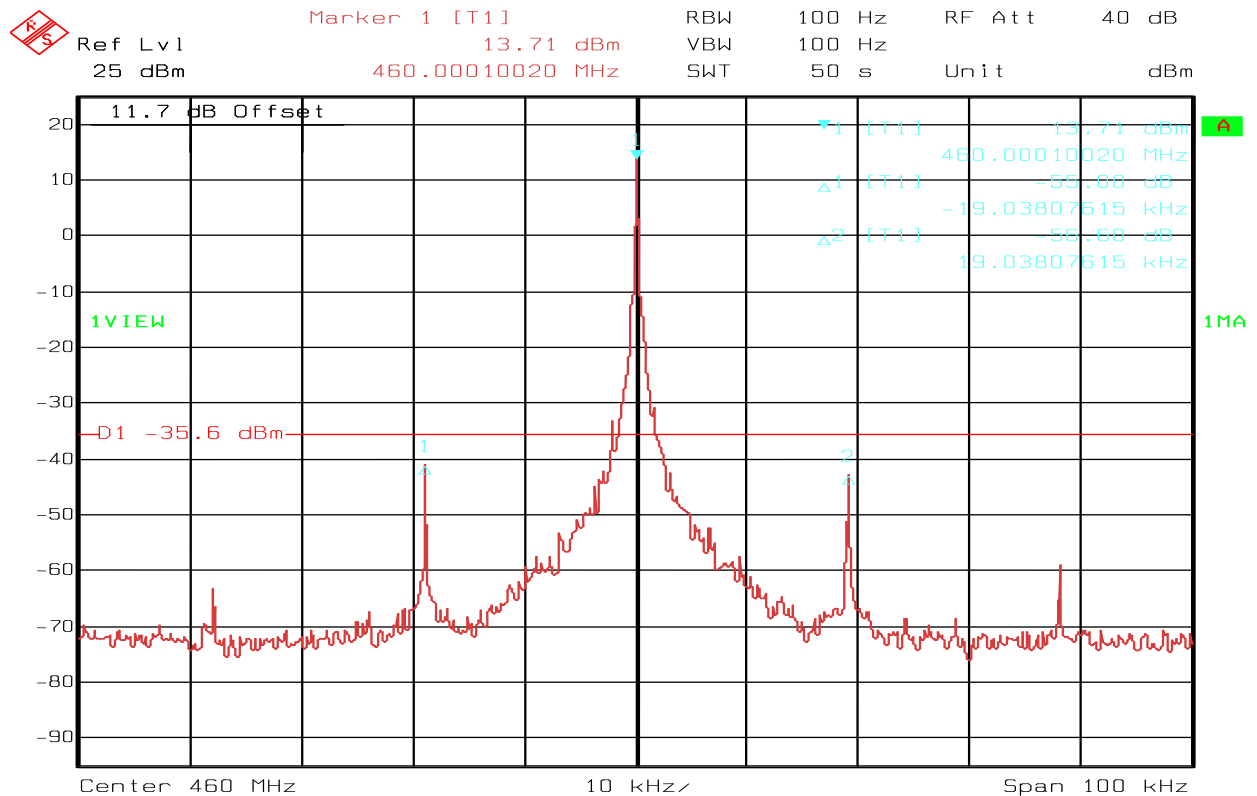
FCC2 - -10 °C , 9.1 Vdc - Upper frequency 470MHz – Scan from 400 MHz to 5 GHz

**FCC2 - 0 °C , 6 Vdc - Lower frequency 460MHz –Conducted power +5.29 dBm****FCC2 - 0 °C , 6 Vdc - Lower frequency 460MHz – Scan from 9kHz to 500MHz**



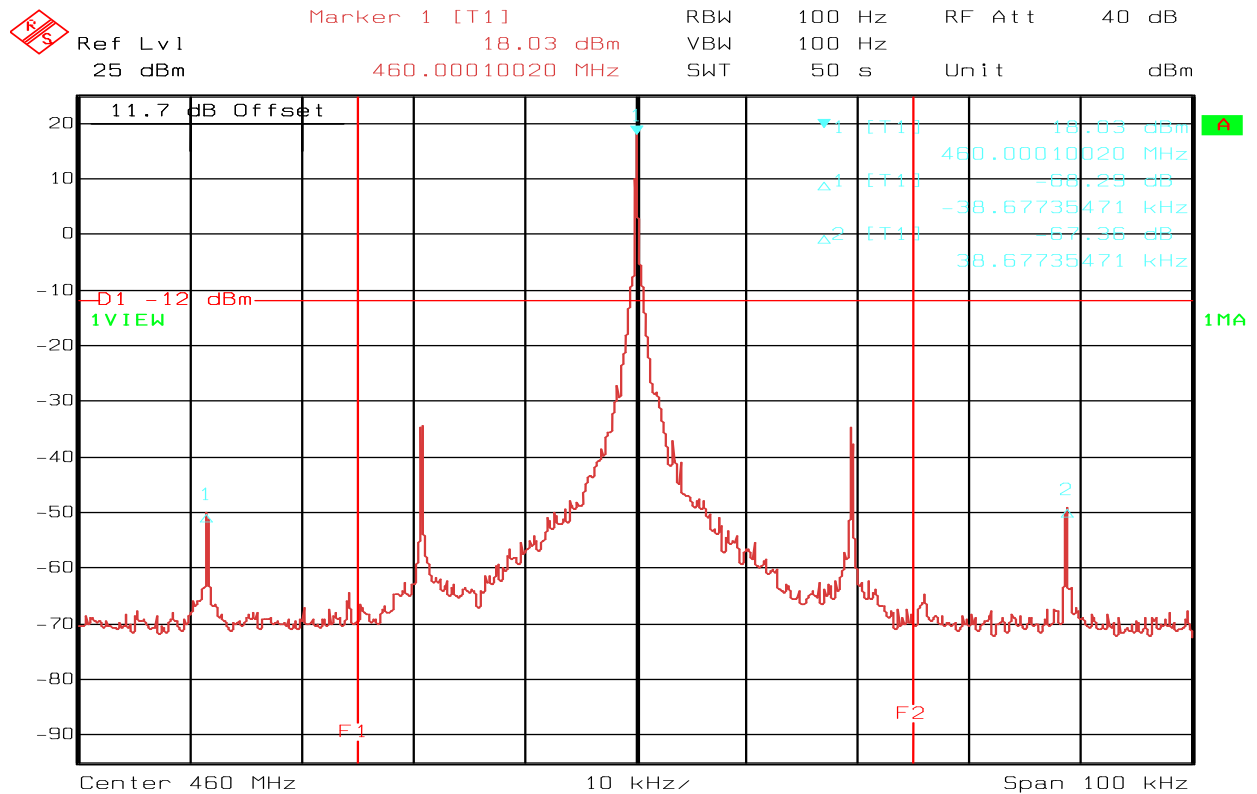
Date: 24.MAY.2005 8:49:42

FCC2 - 0 °C , 6 Vdc - Lower frequency 460MHz – Scan from 400MHz – 5GHz

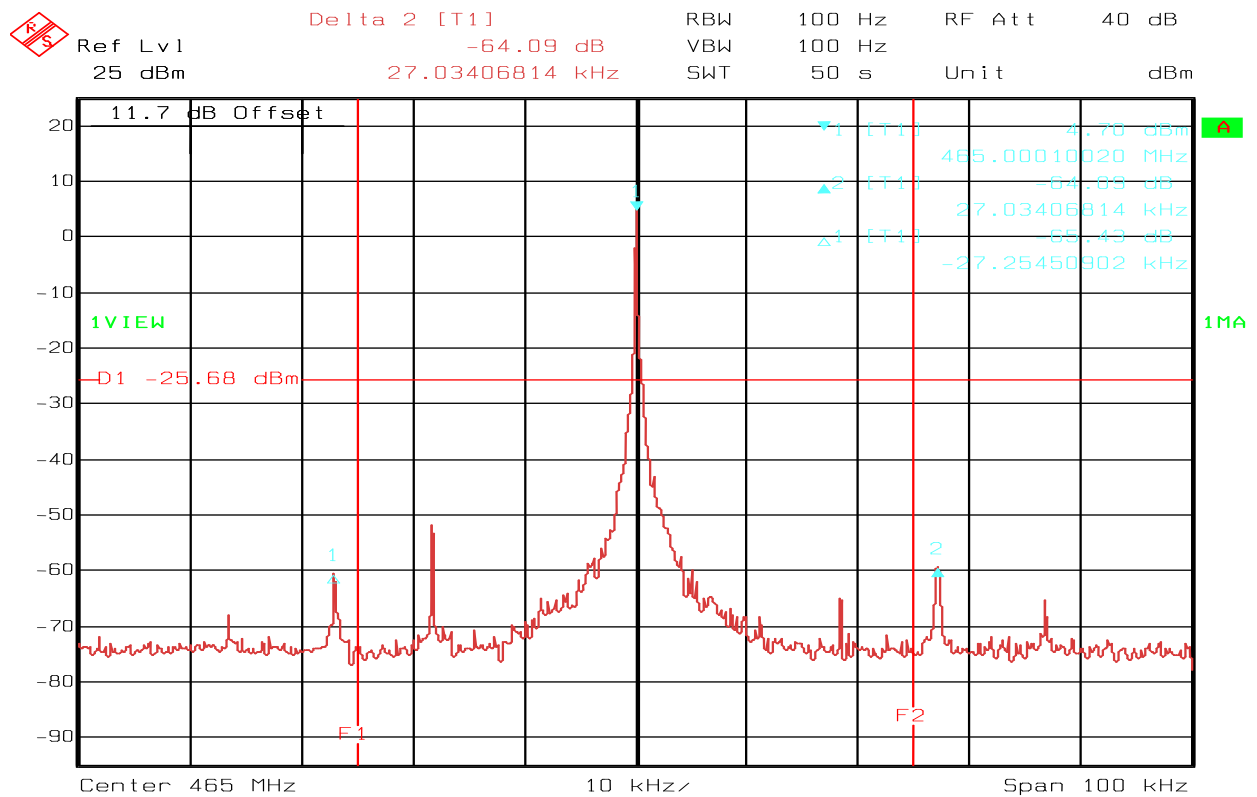


Date: 24.MAY.2005 8:31:46

FCC2 - 0 °C , 7.2 Vdc - Lower frequency 460MHz –Conducted power +13.71 dBm

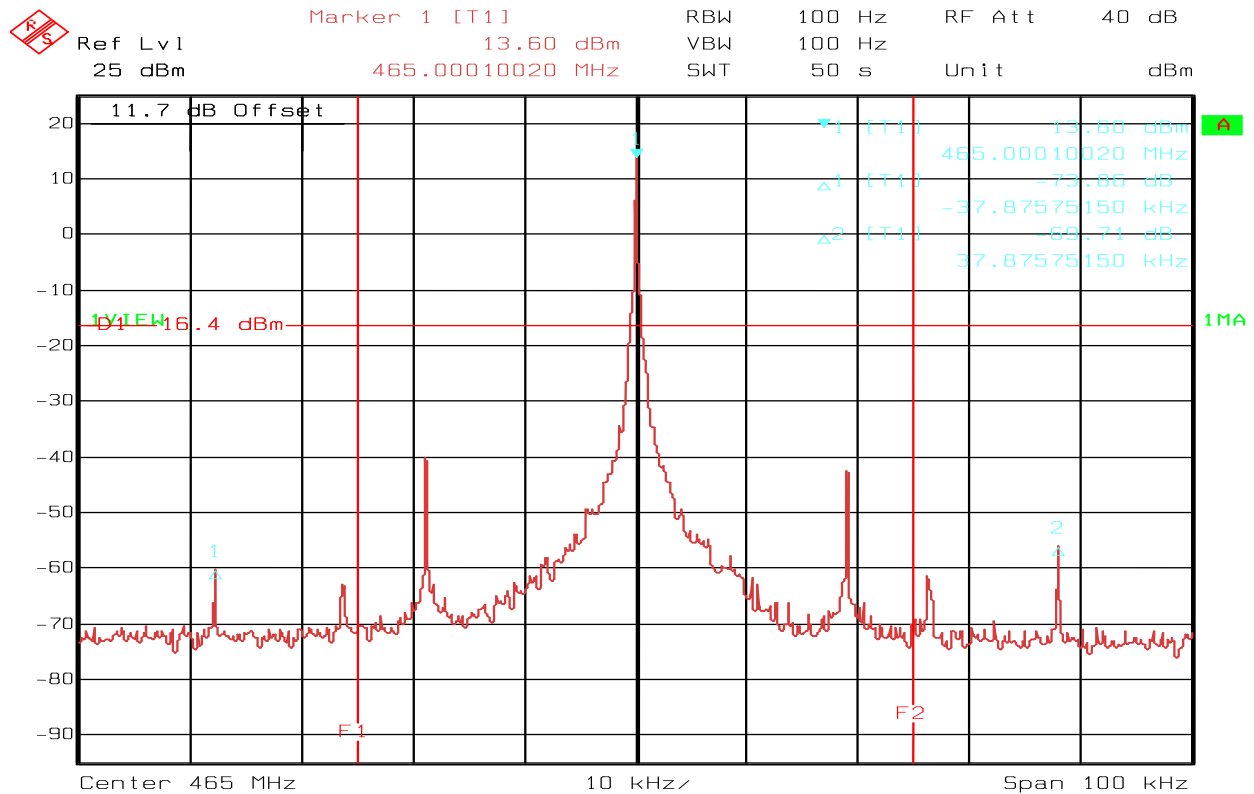
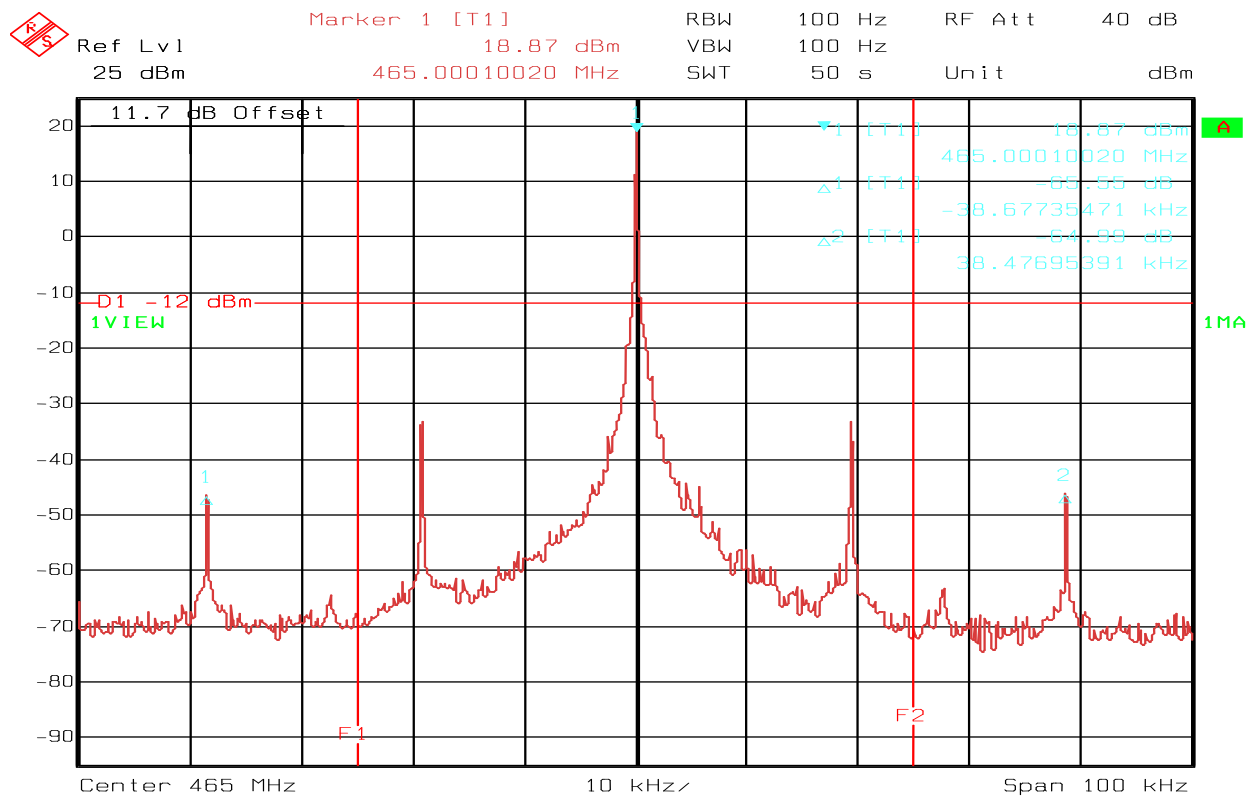


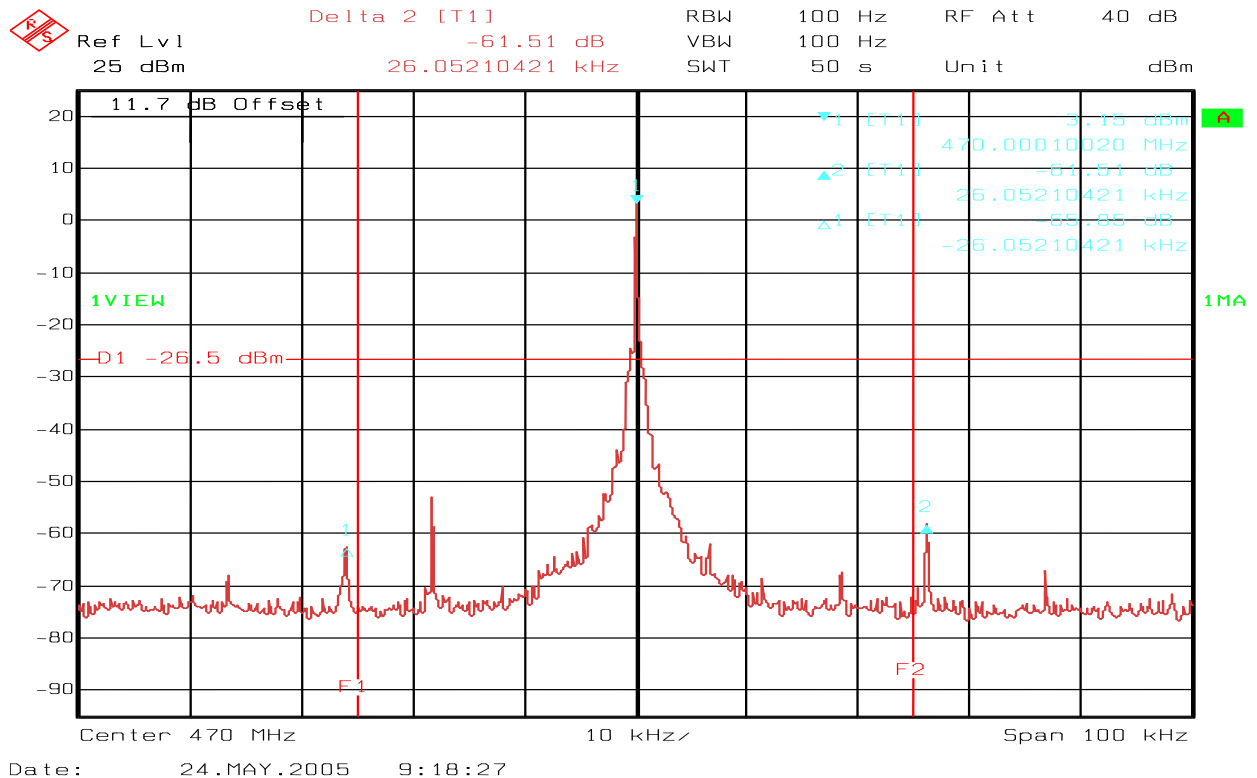
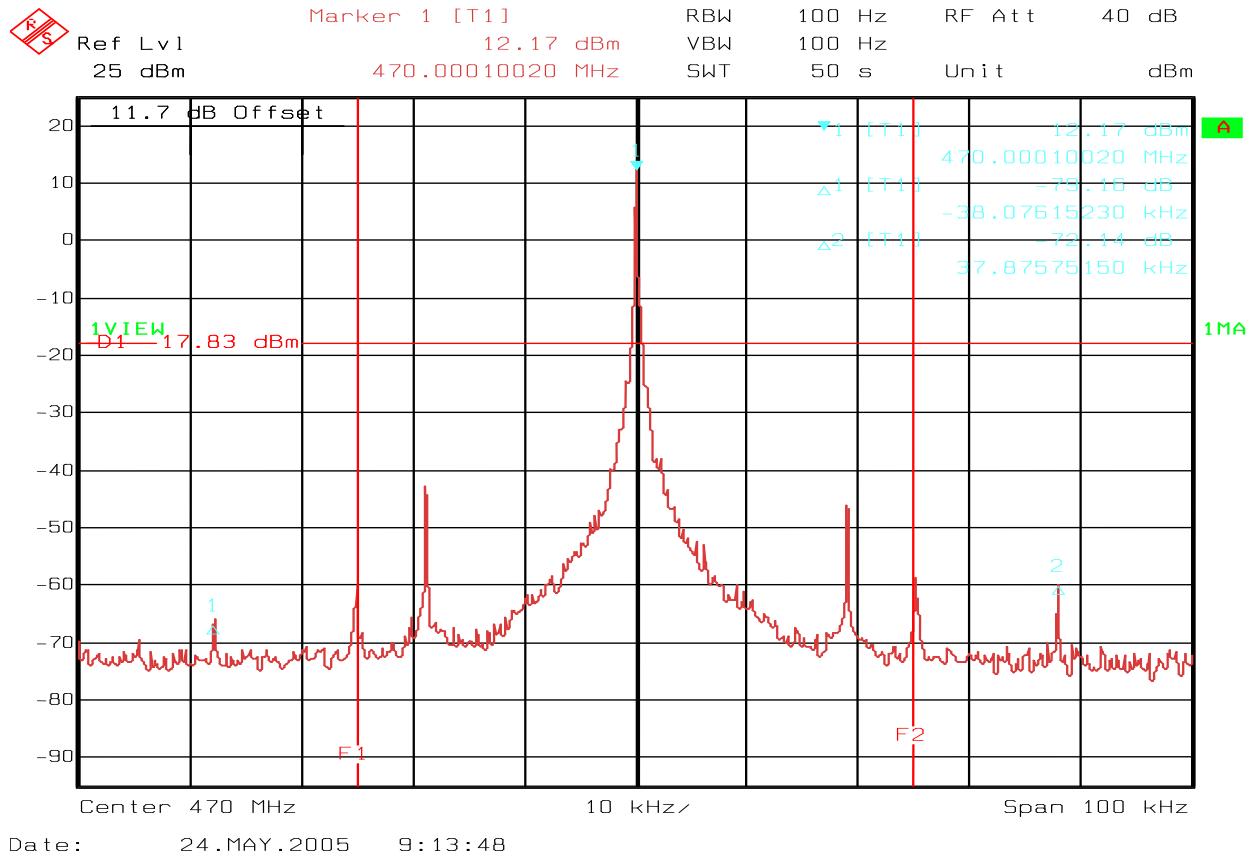
Date: 24.MAY.2005 8:53:51

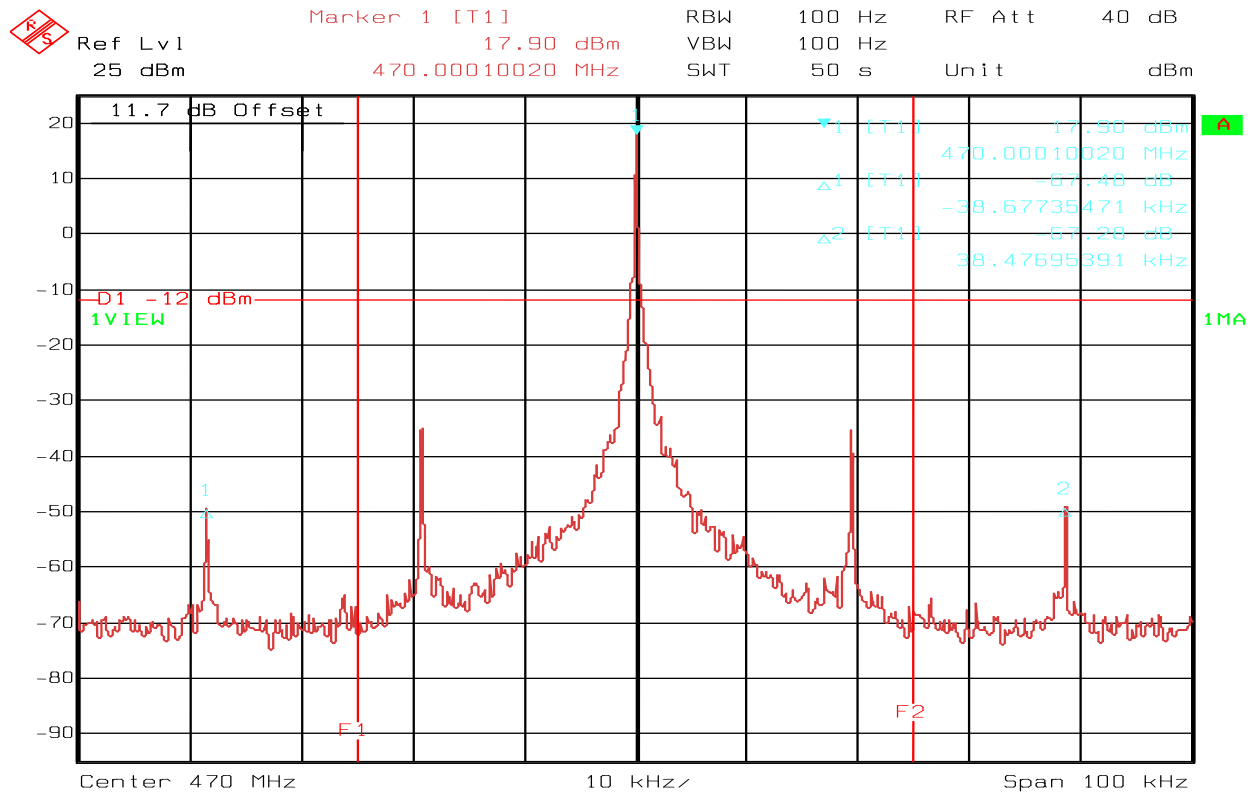
FCC2 - 0 °C, 9.1 Vdc - Lower frequency 460MHz -Conducted power +18.03 dBm

Date: 24.MAY.2005 9:03:04

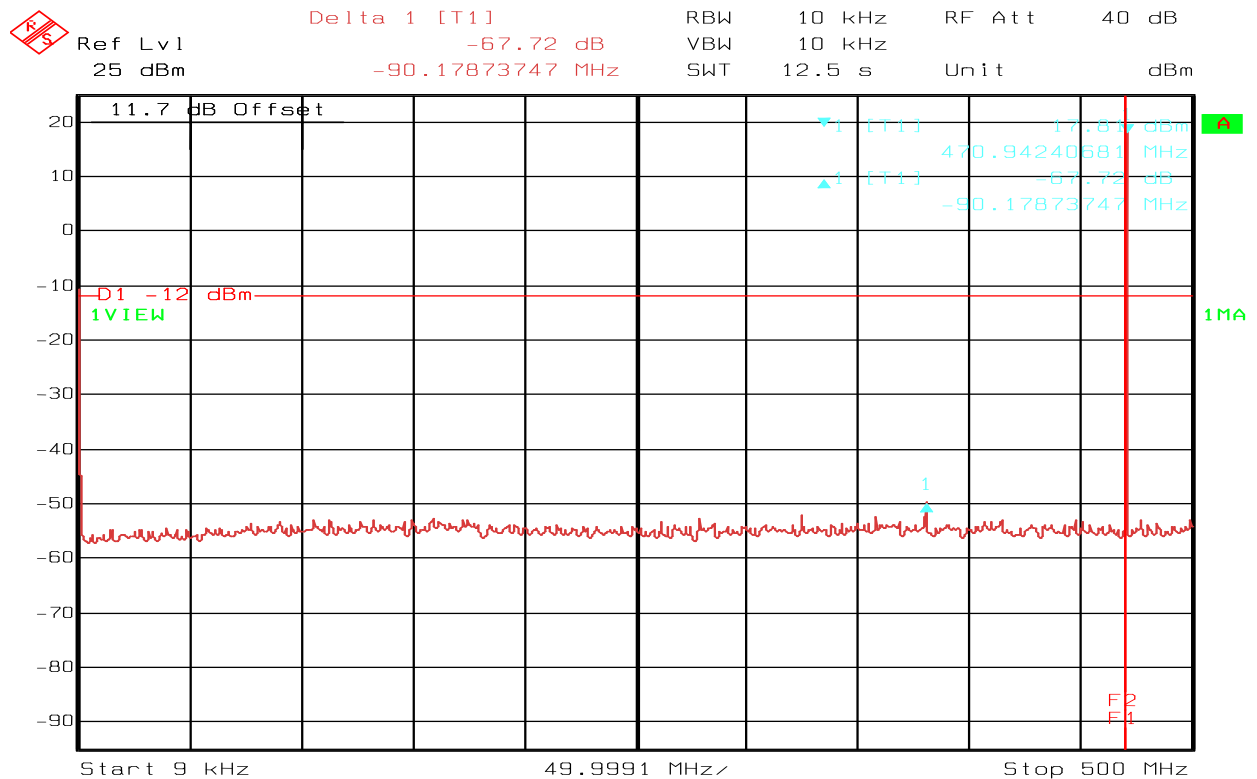
FCC2 - 0 °C, 6 Vdc - Middel frequency 465MHz -Conducted power +4.70 dBm

**FCC2 - 0 °C , 7.2 Vdc - Middel frequency 465MHz –Conducted power +13.60 dBm****FCC2 - 0 °C , 9.1 Vdc - Middel frequency 465MHz –Conducted power +18.87 dBm**

**FCC2 - 0 °C , 6.0 Vdc - Upper frequency 470MHz –Conducted power +3.15 dBm****FCC2 - 0 °C , 7.2 Vdc - Upper frequency 470MHz –Conducted power +12.17 dBm**

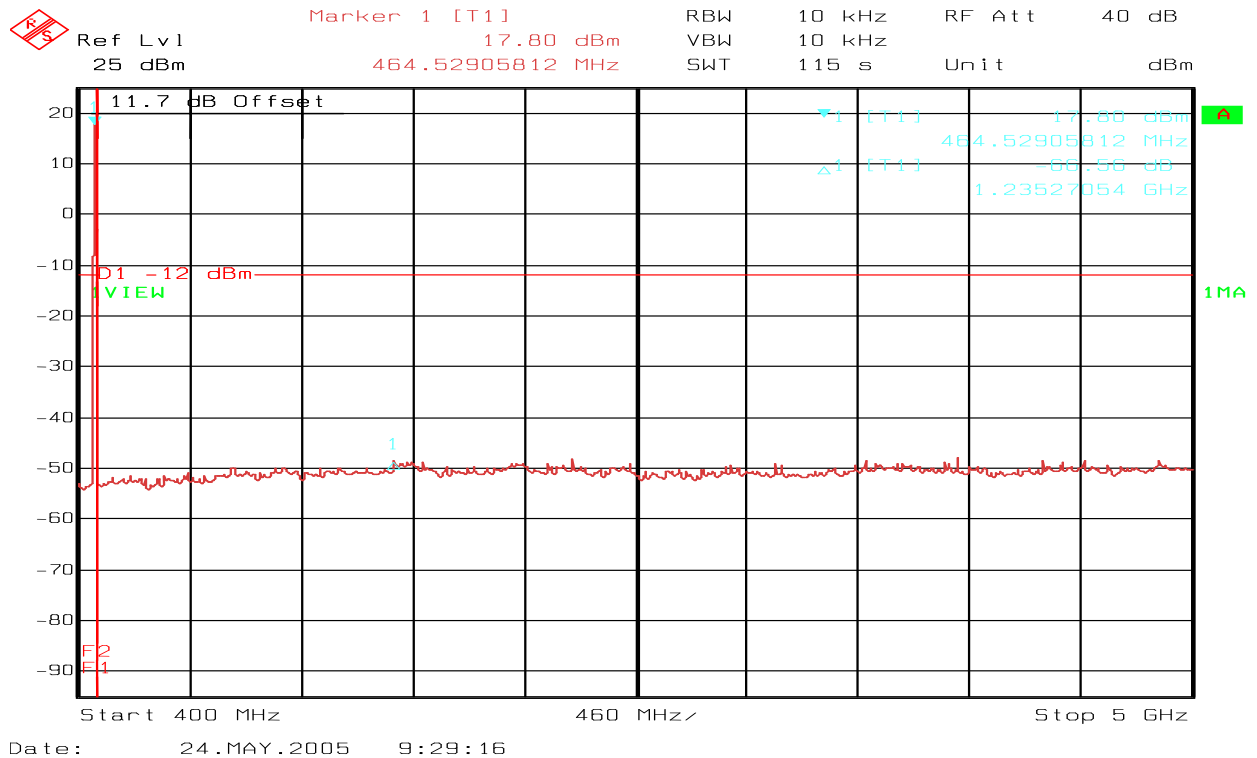
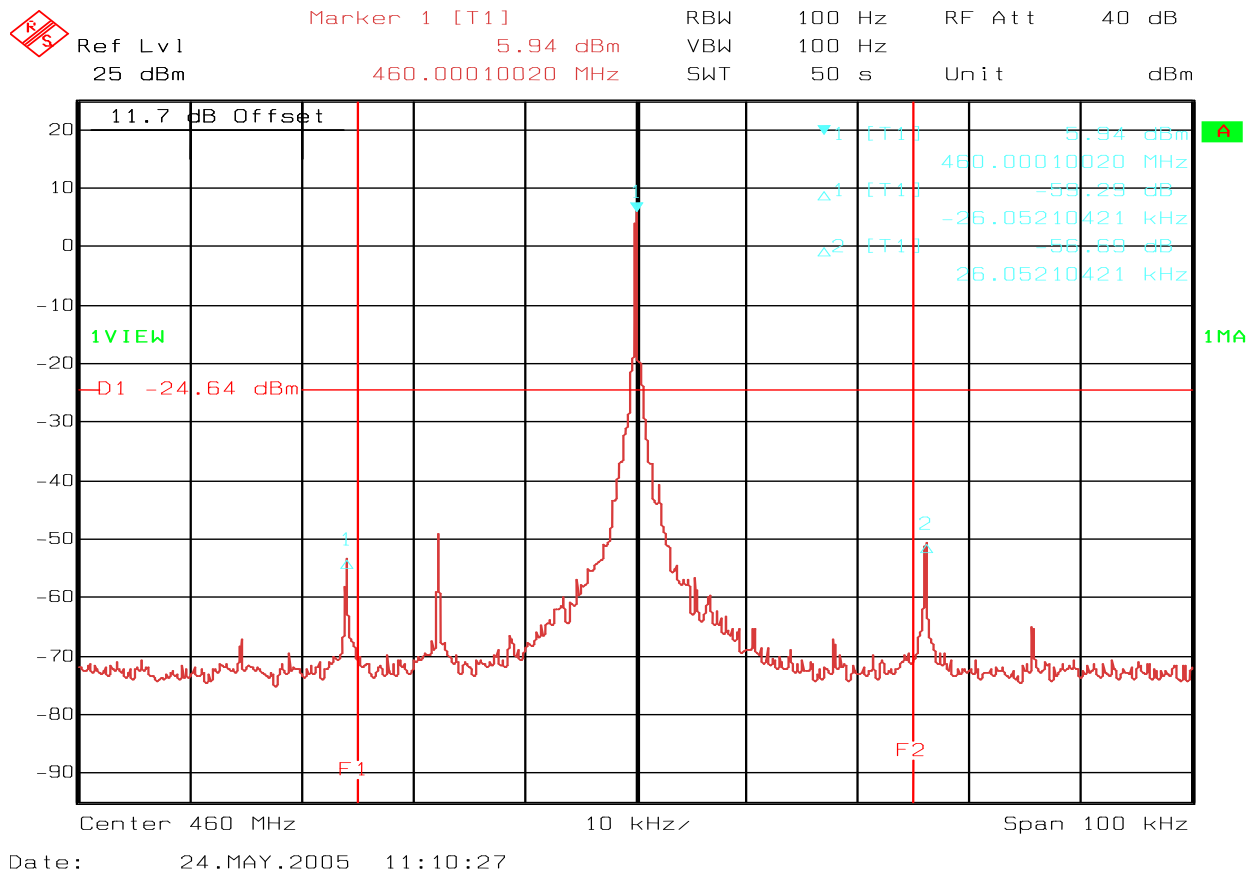


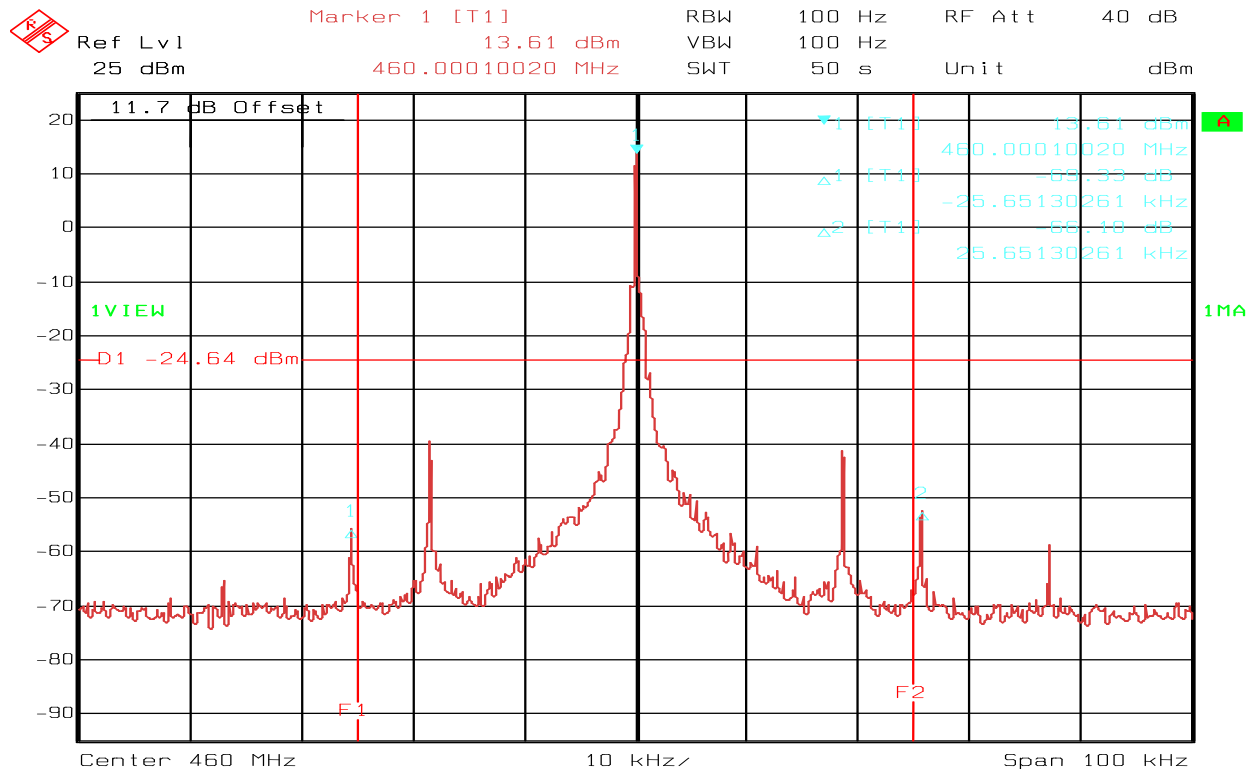
Date: 24.MAY.2005 9:20:41

FCC2 - 0 °C ,9.1 Vdc - Upper frequency 470MHz –Conducted power +17.90 dBm

Date: 24.MAY.2005 9:23:34

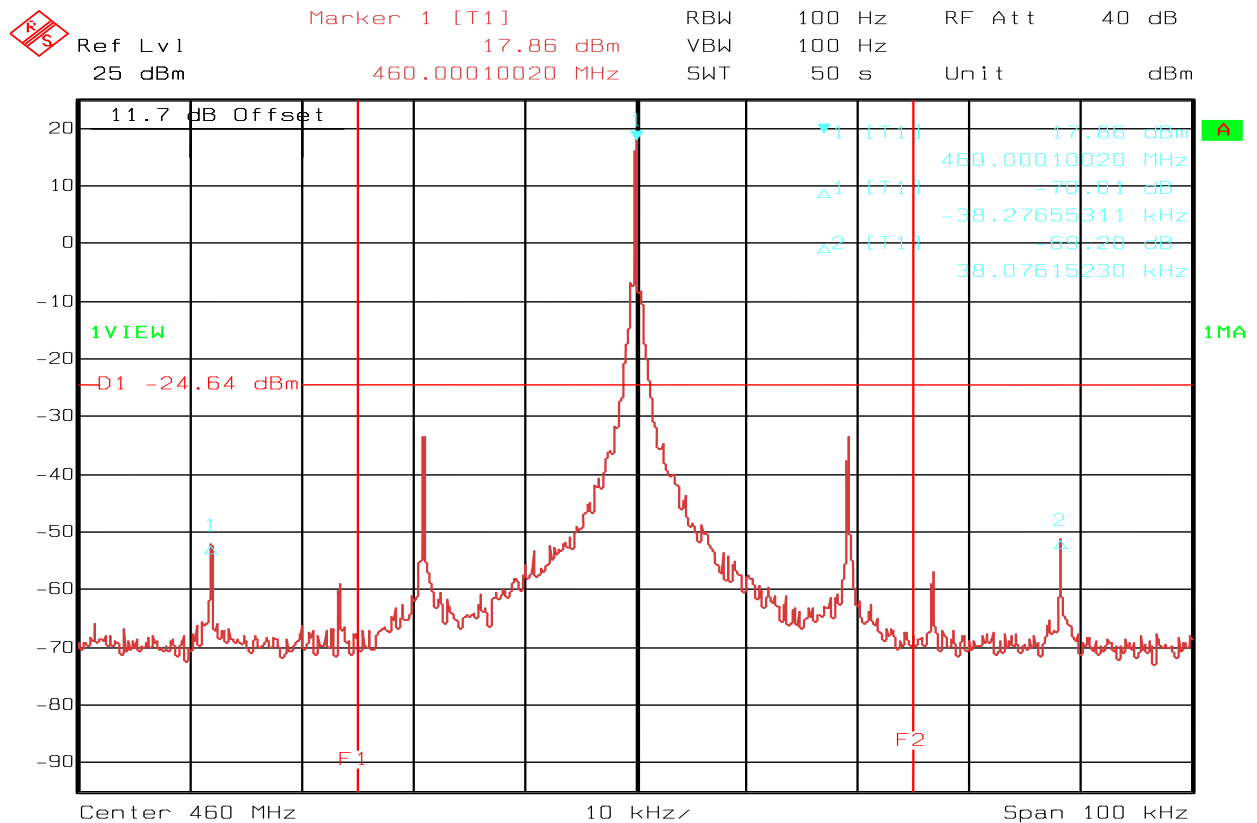
FCC2 - 0 °C ,9.1 Vdc - Upper frequency 470MHz –Scan from 9kHz to 500 Mhz

**FCC2 - 0 °C , 9.1 Vdc - Upper frequency 470MHz –Scan from 400 MHz to 5GHz****FCC2 - 10 °C , 6.0 Vdc - Lower frequency 460MHz –Conducted power: +5.94 dBm**



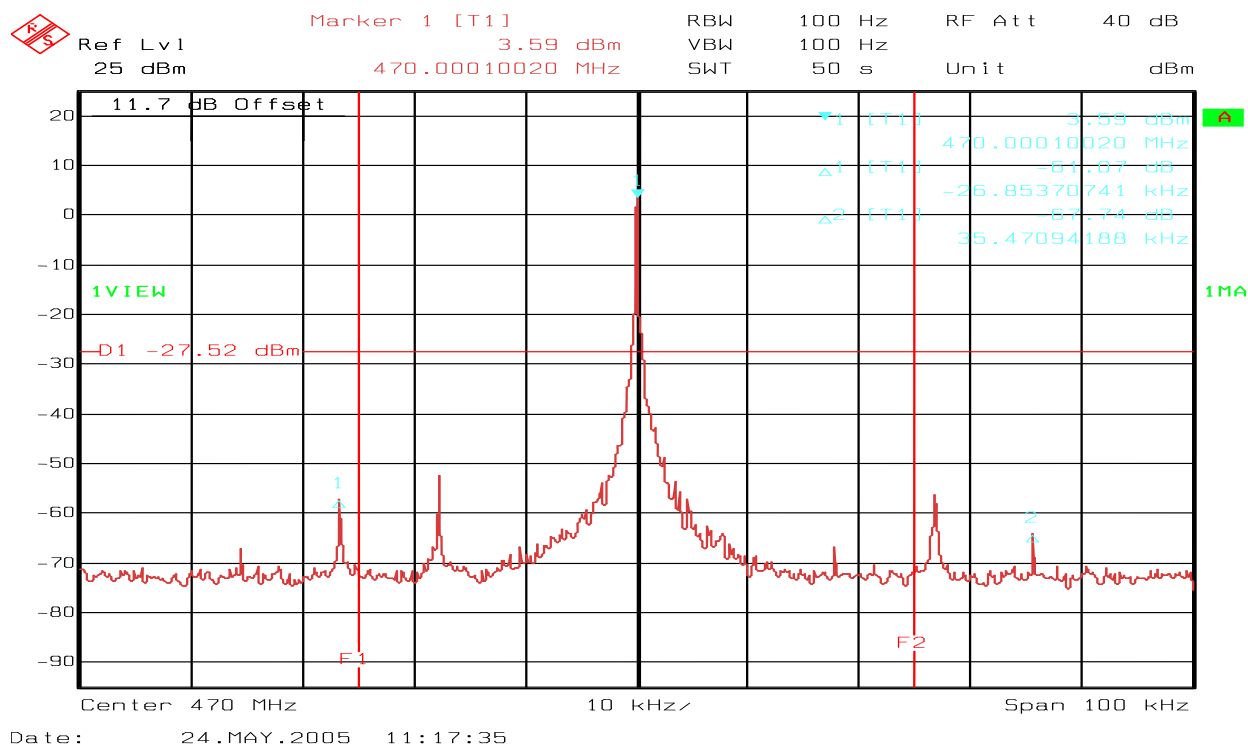
Date: 24.MAY.2005 11:12:40

FCC2 - 10 °C , 7.2 Vdc - Lower frequency 460MHz -Conducted power: +13.61 dBm

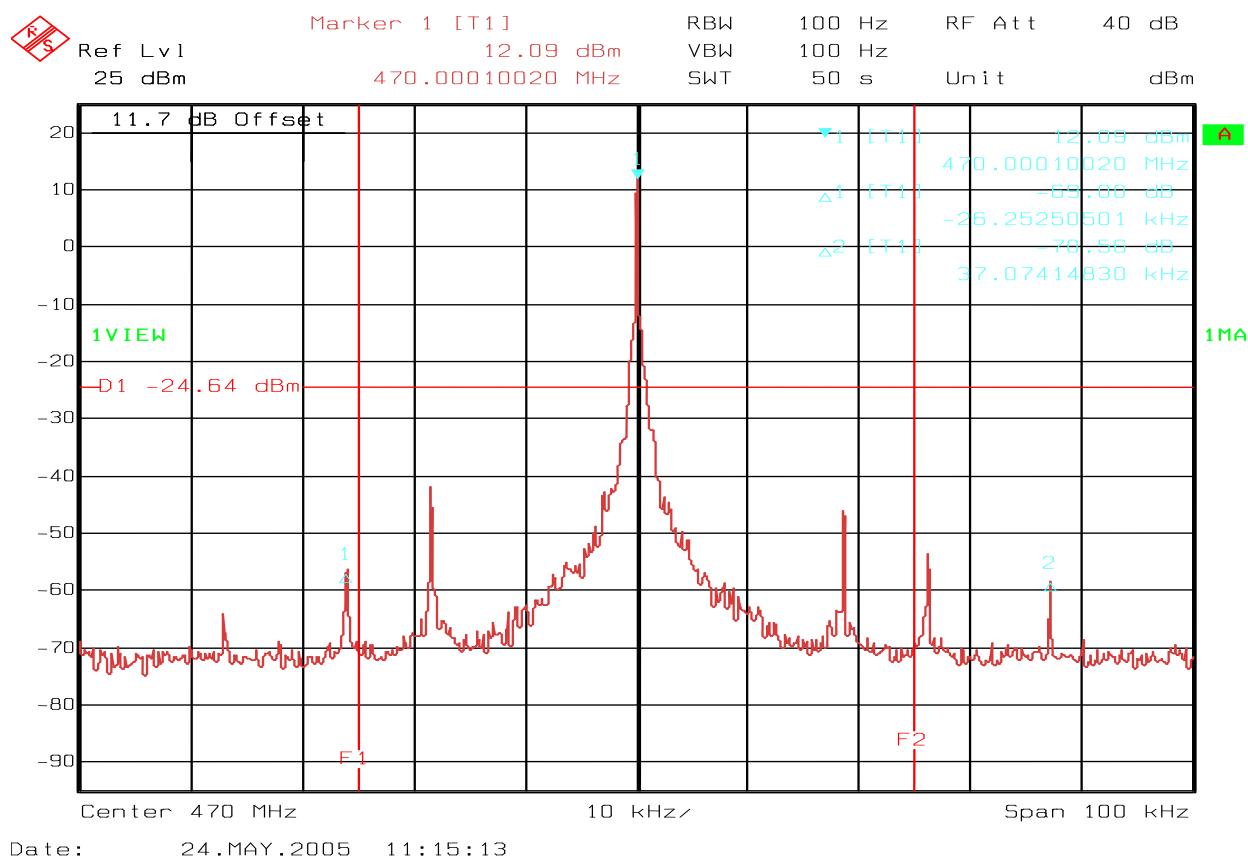


Date: 24.MAY.2005 11:07:39

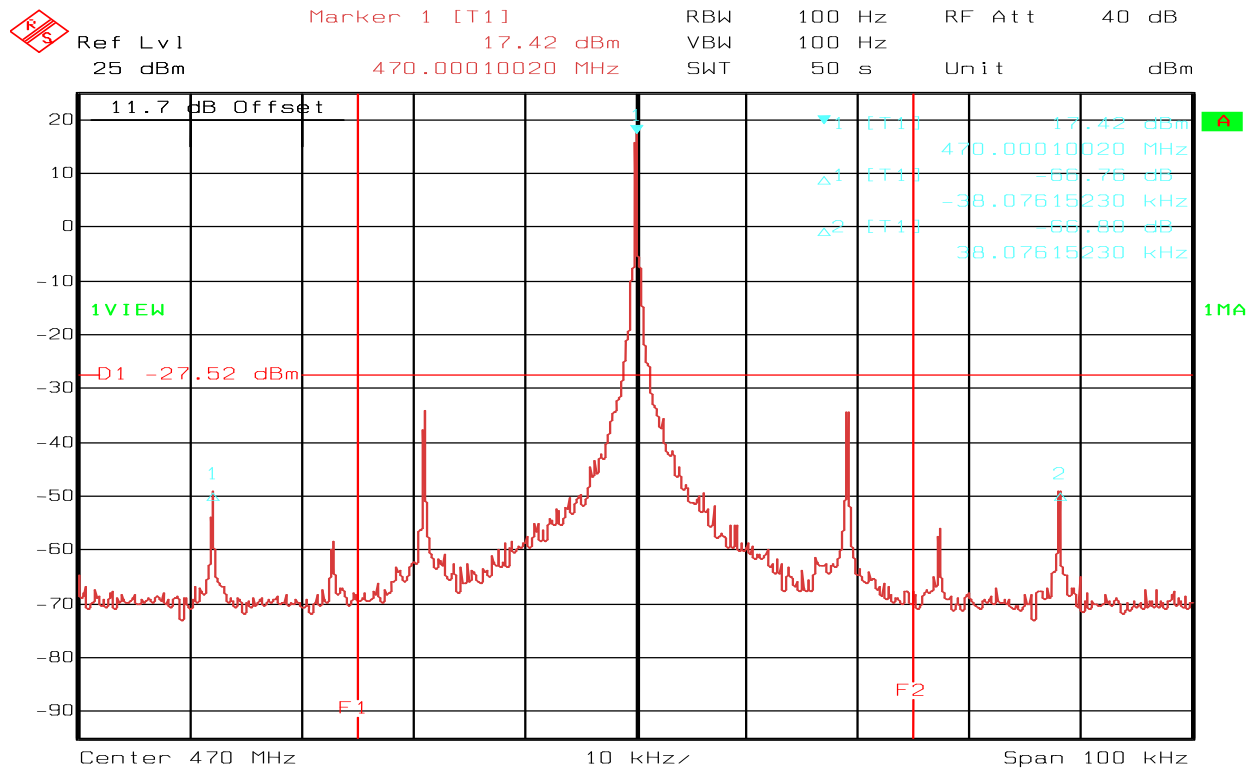
FCC2 - 10 °C , 9.1 Vdc - Lower frequency 460MHz -Conducted power: +17.85 dBm



FCC2 - 10 °C , 6.0 Vdc - Upper frequency 470MHz –Conducted power: +3.59 dBm

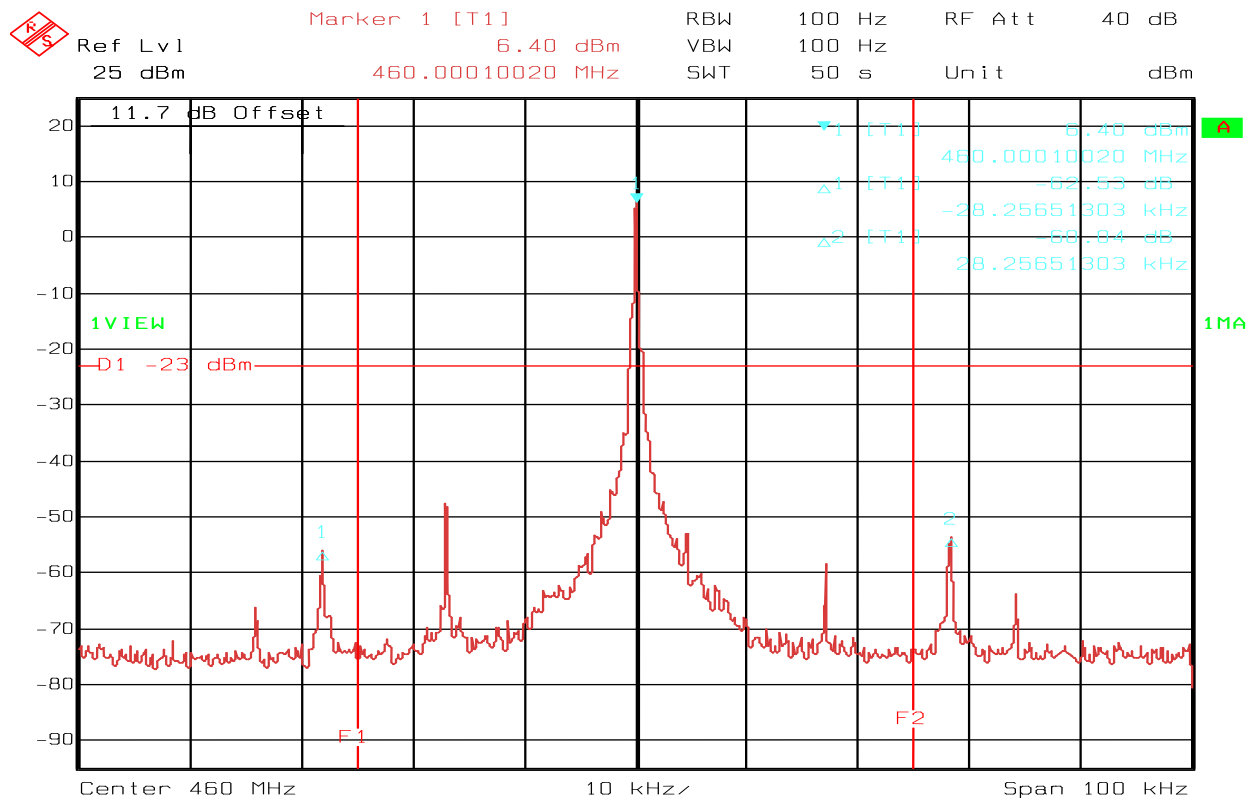


FCC2 - 10 °C , 7.2 Vdc - Upper frequency 470MHz –Conducted power: +12.09 dBm



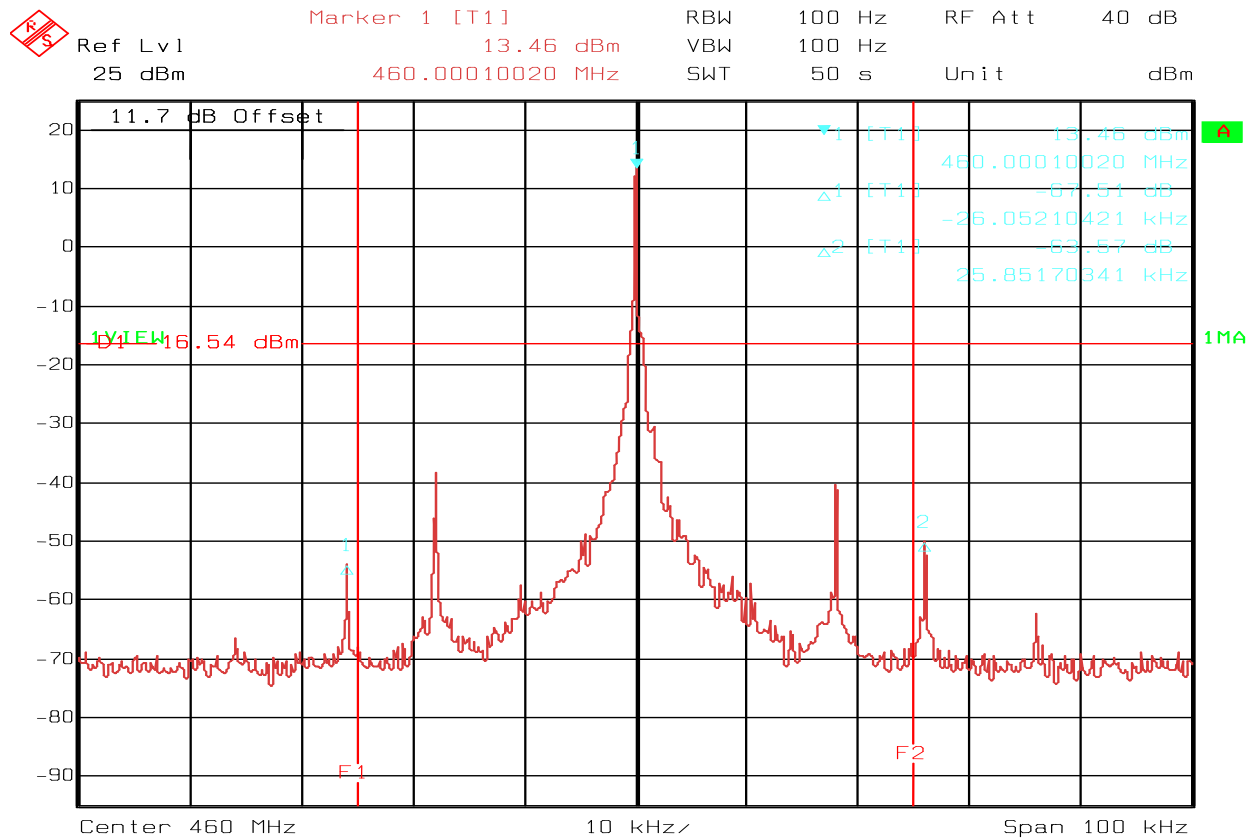
Date: 24.MAY.2005 11:19:44

FCC2 - 10 °C , 9.1 Vdc - Upper frequency 470MHz –Conducted power: +17.42 dBm



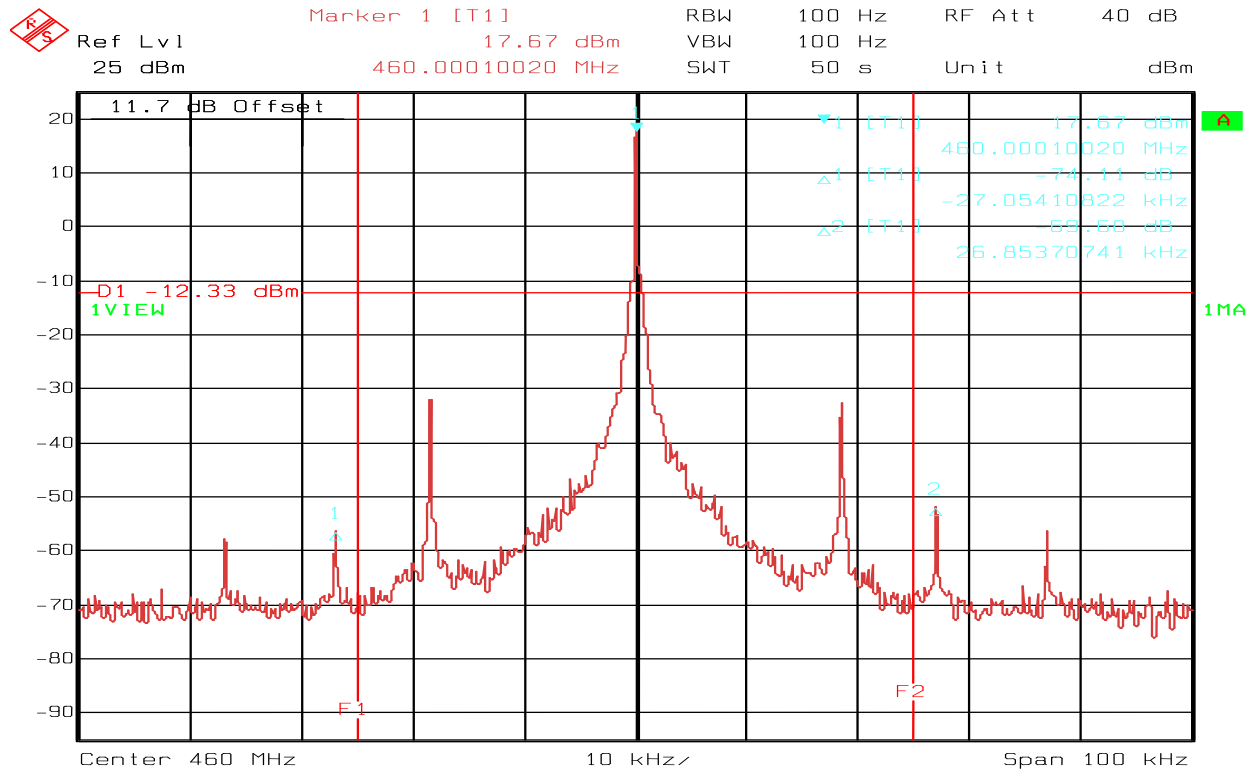
Date: 24.MAY.2005 14:16:15

FCC2 - 20 °C , 6.0 Vdc - Lower frequency 460MHz –Conducted power: +6.40 dBm



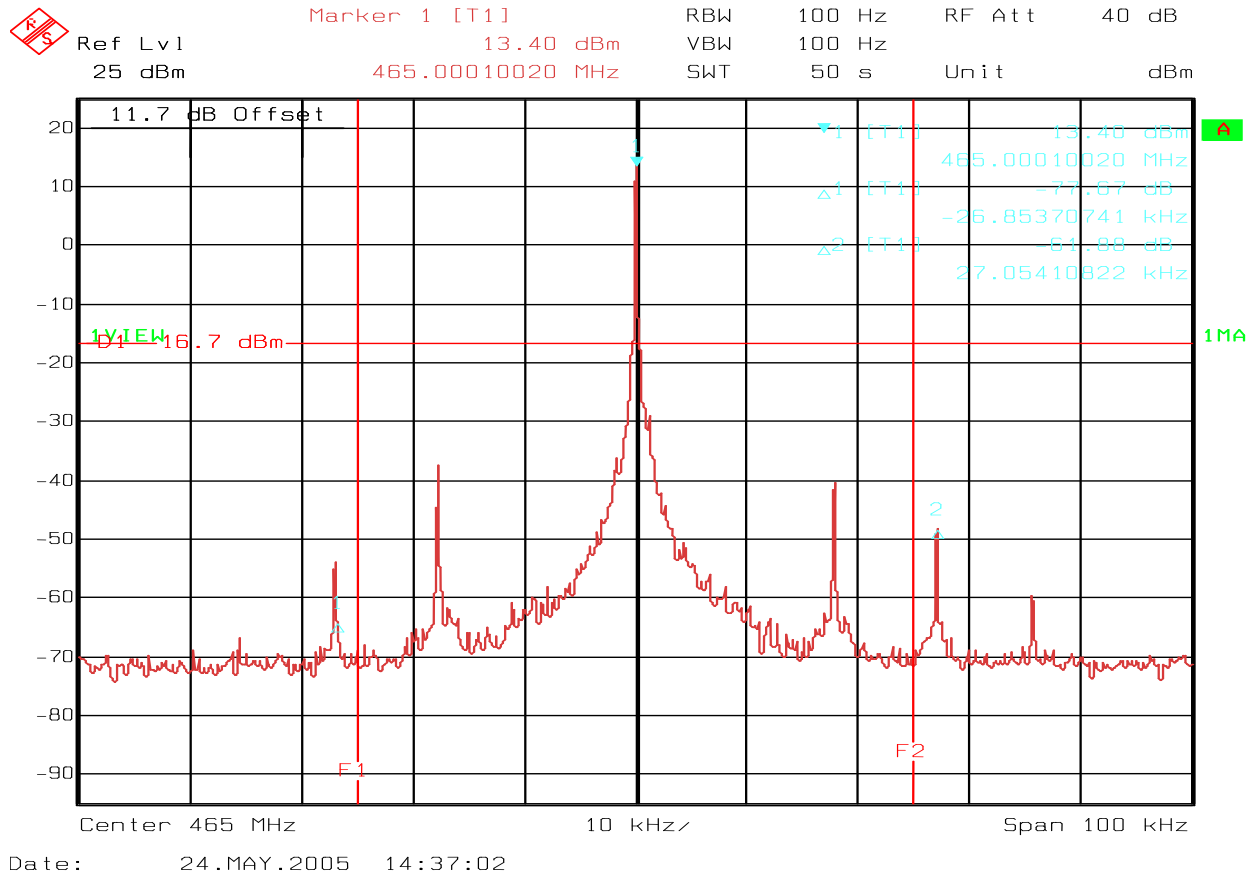
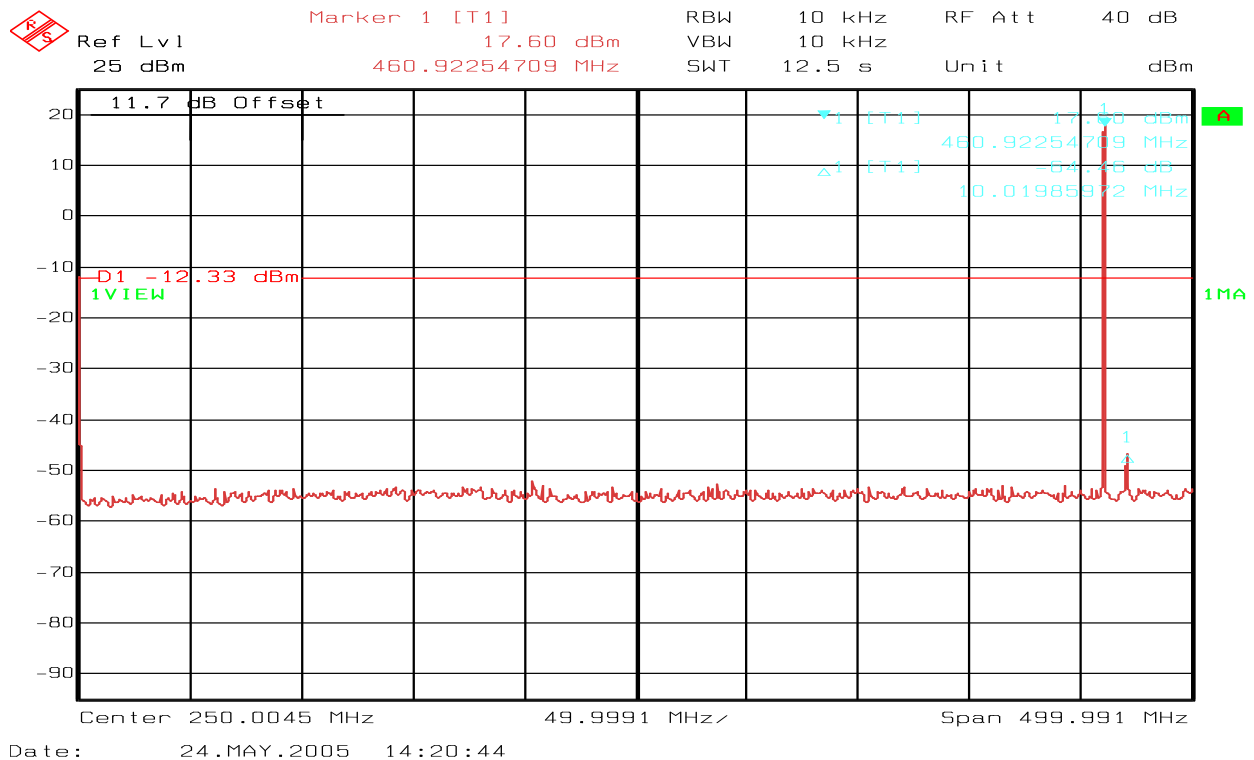
Date: 24.MAY.2005 13:44:37

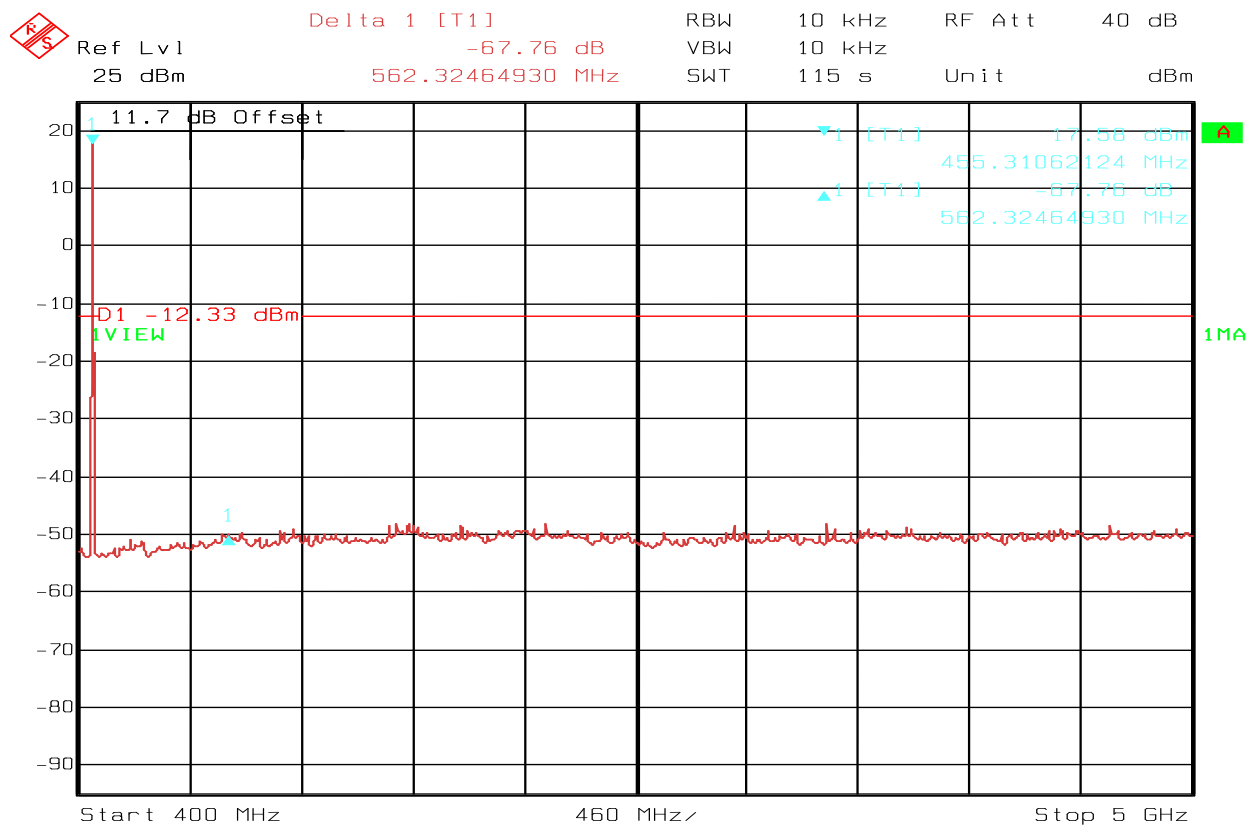
FCC2 - 20 °C , 7.2 Vdc - Lower frequency 460MHz –Conducted power: +13.46 dBm



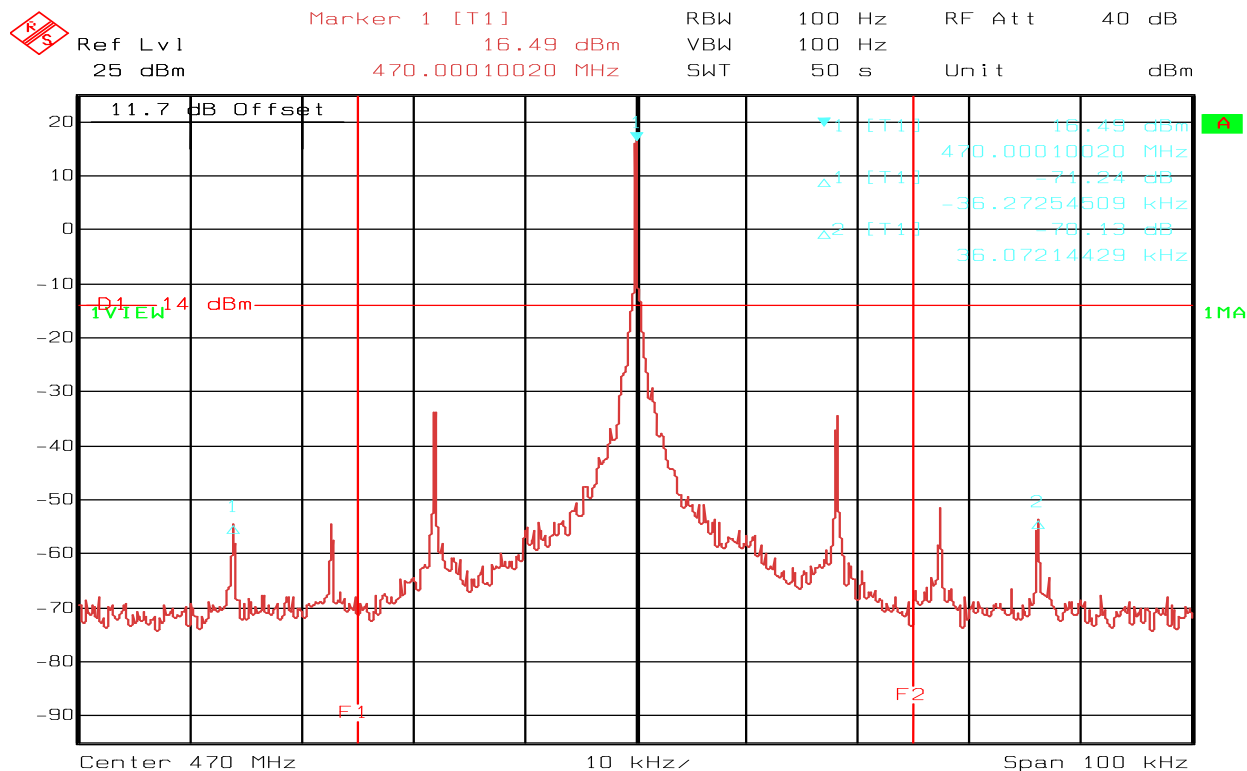
Date: 24.MAY.2005 14:18:43

FCC2 - 20 °C , 9.1 Vdc - Lower frequency 460MHz –Conducted power: +17.67 dBm

**FCC2 - 20 °C , 7.2 Vdc - Middle frequency 465MHz –Conducted power: +13.40 dBm****FCC2 - 20 °C , 9.1 Vdc - Lower frequency 460MHz – Scan 9kHz to 500MHz**



Date: 24.MAY.2005 14:24:42

FCC2 - 20 °C , 9.1 Vdc - Lower frequency 460MHz – Scan 400 MHz to 5GHz

Date: 24.MAY.2005 23:06:11

FCC2 - 30 °C , 9.1 Vdc - Upper frequency 470MHz – Conducted power +16.49 dBm



11.7 dB Offset

Ref Lvl 25 dBm

Marker 1 [T1] 15.25 dBm 469.99929860 MHz

RBW 100 Hz VBW 100 Hz SWT 50 s Unit dBm

15.25 dBm 469.99929860 MHz

77.65 dB -33.26653307 kHz

76.27 dB 50.10020040 kHz

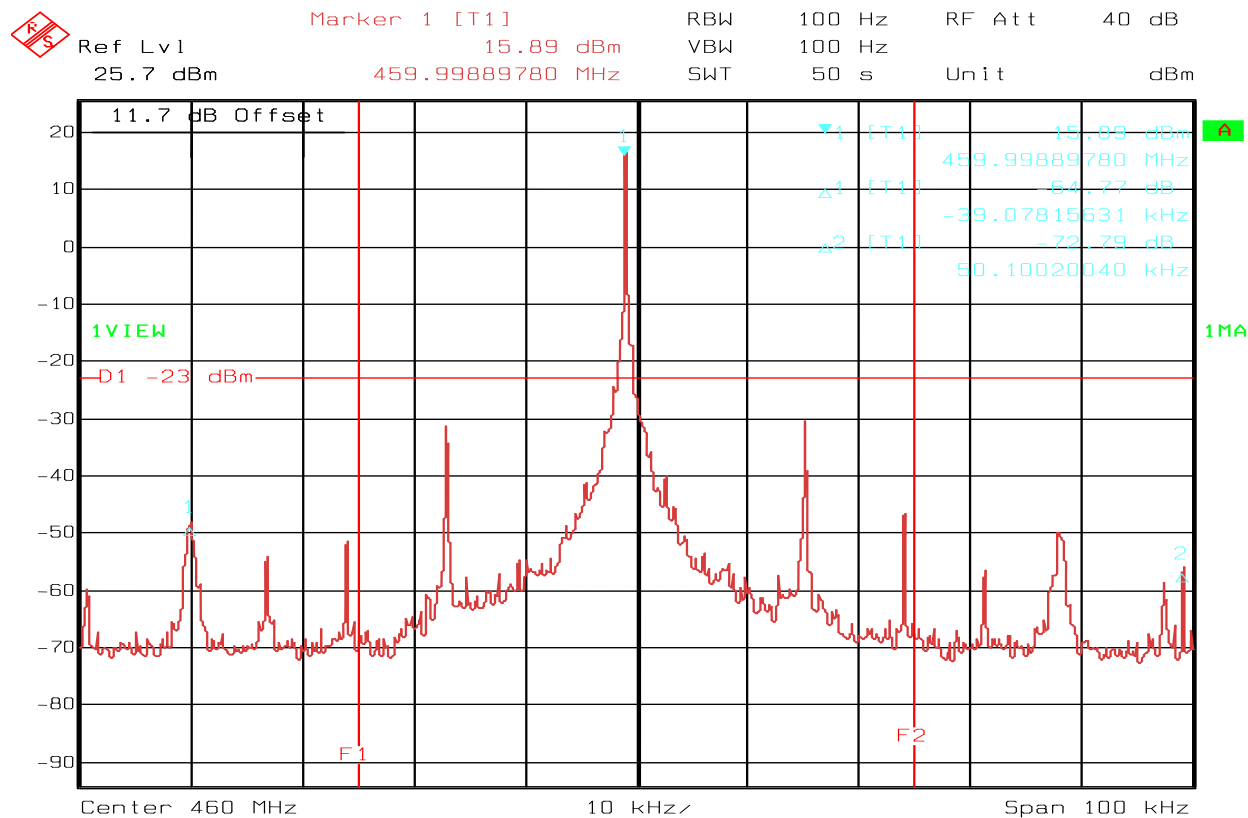
101.16 dBm

1MA

Center 470 MHz 10 kHz Span 100 kHz

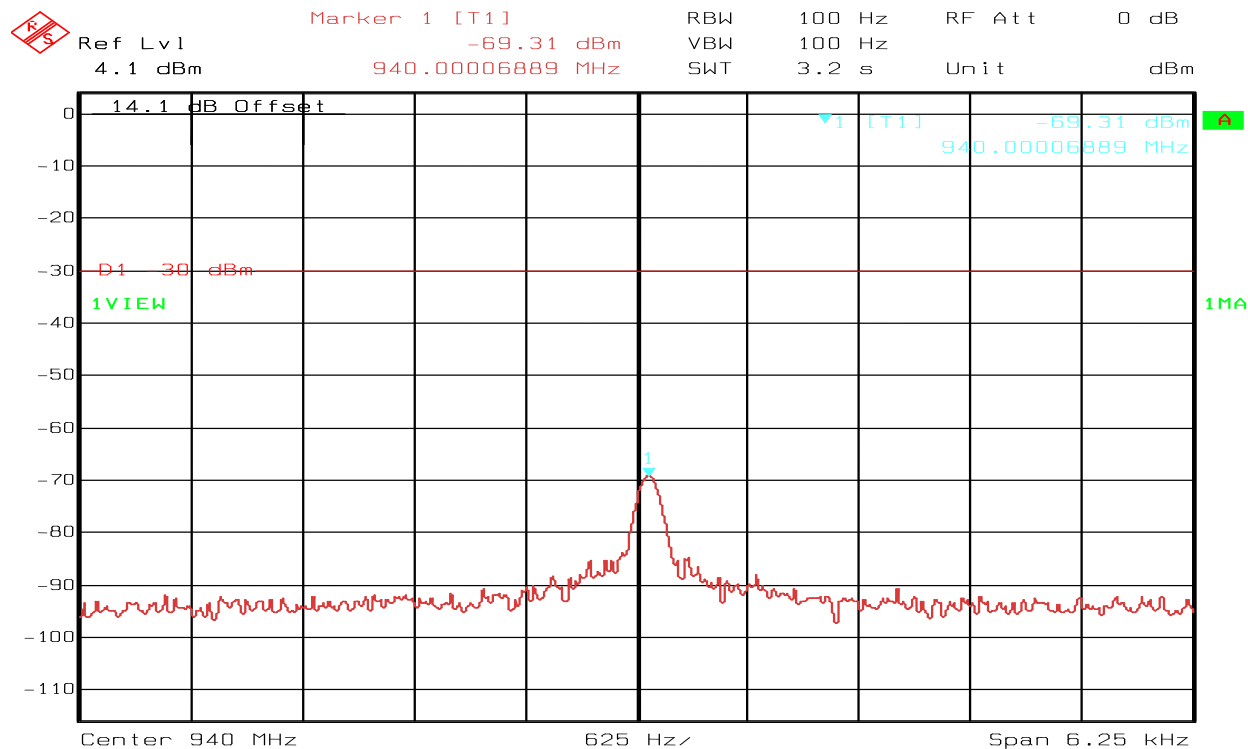
Date: 25.MAY.2005 14:30:54

Nemko Comlab
Gåsevikveien 8, Kjeller, Norway
<mailto:post@comlab.no>

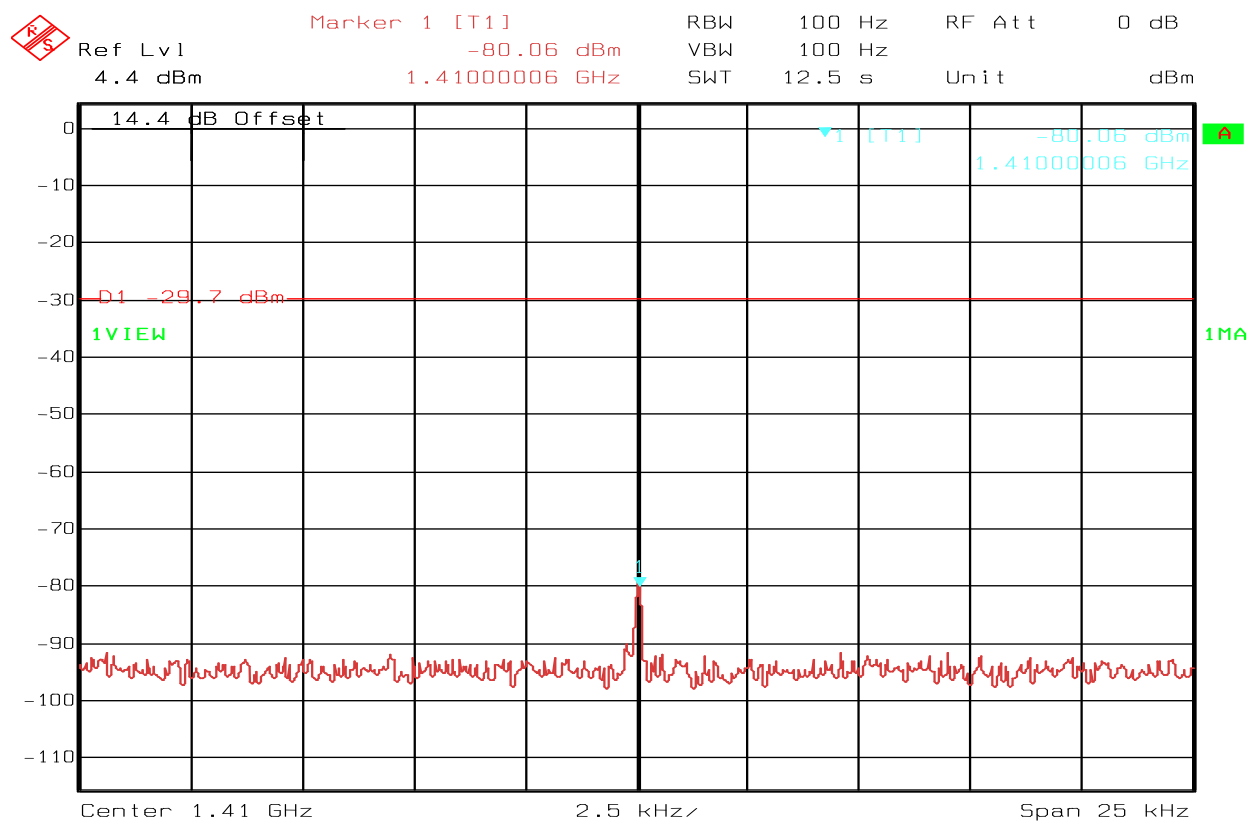


Date: 25.MAY.2005 20:02:22

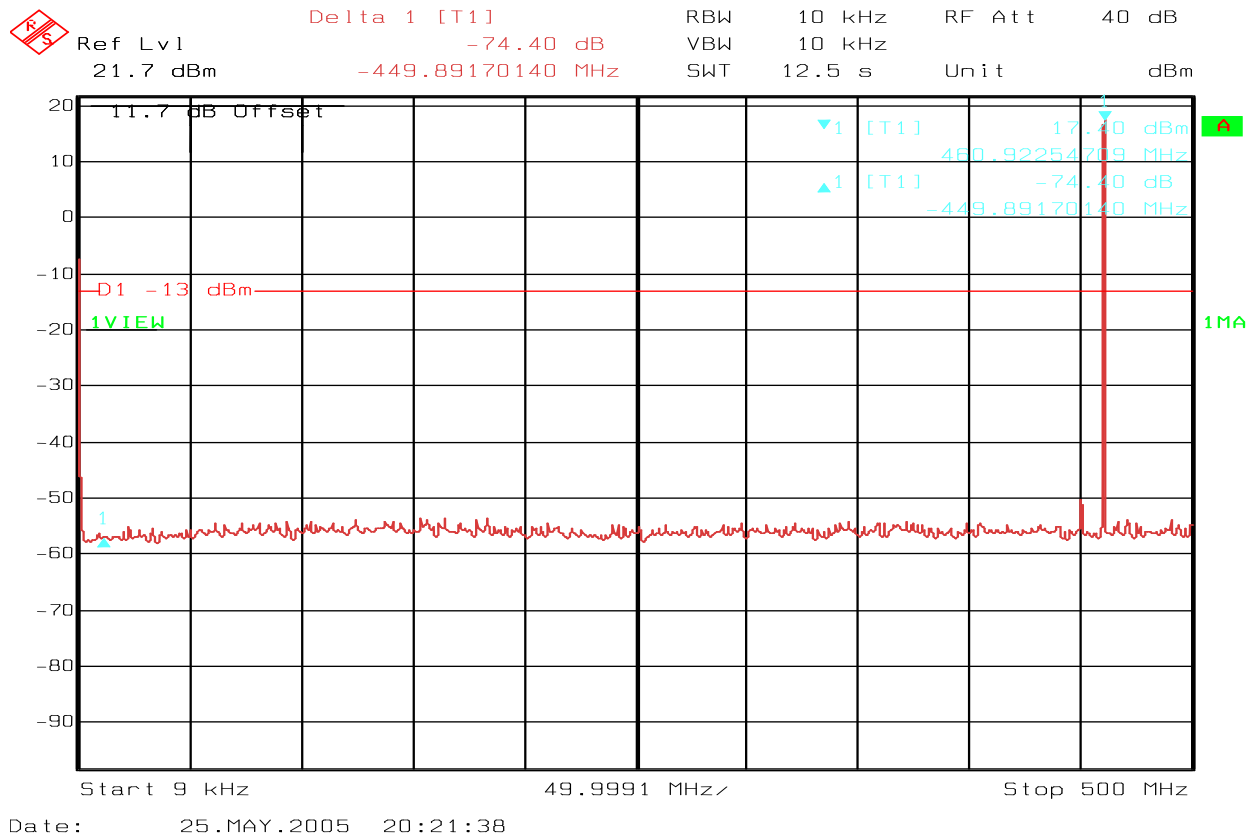
FCC2 - 60 °C , 9.1 Vdc - lower frequency 460MHz – Conducted power +15.89 dBm



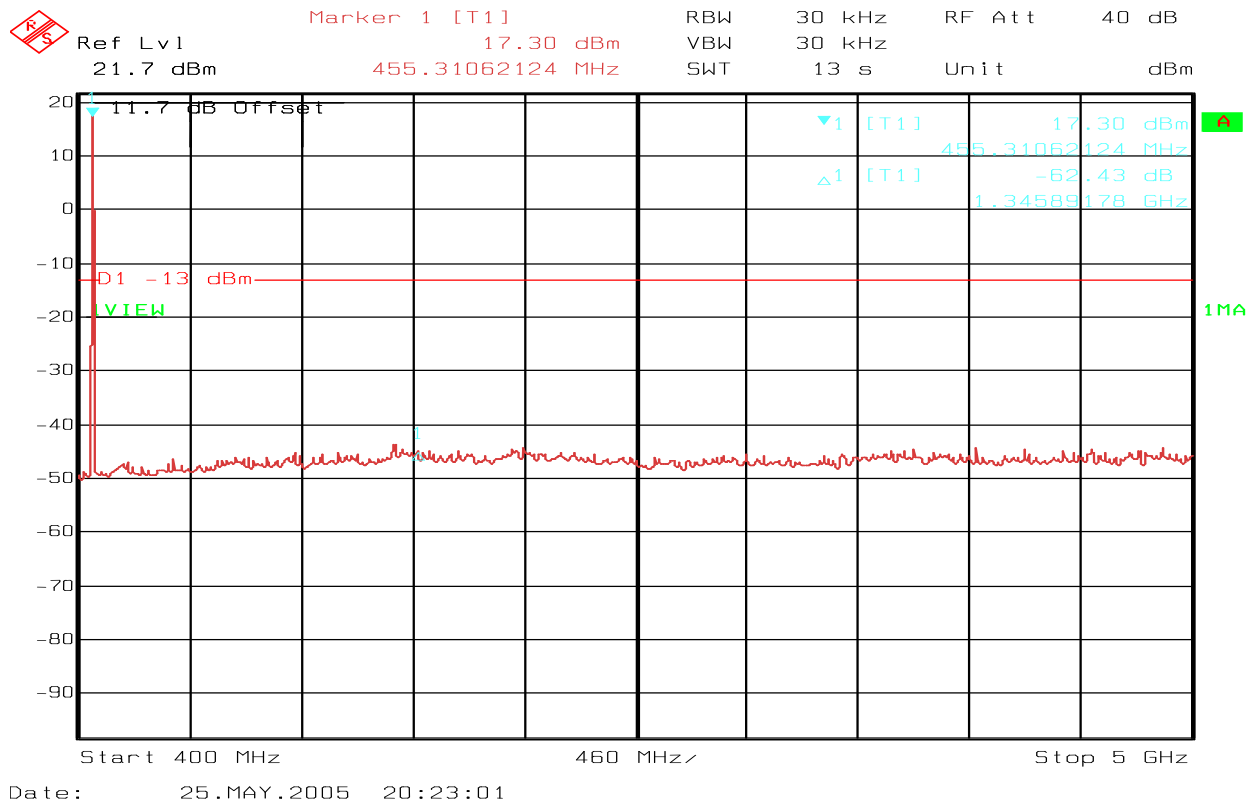
Conducted spurious – 2nd harmonic



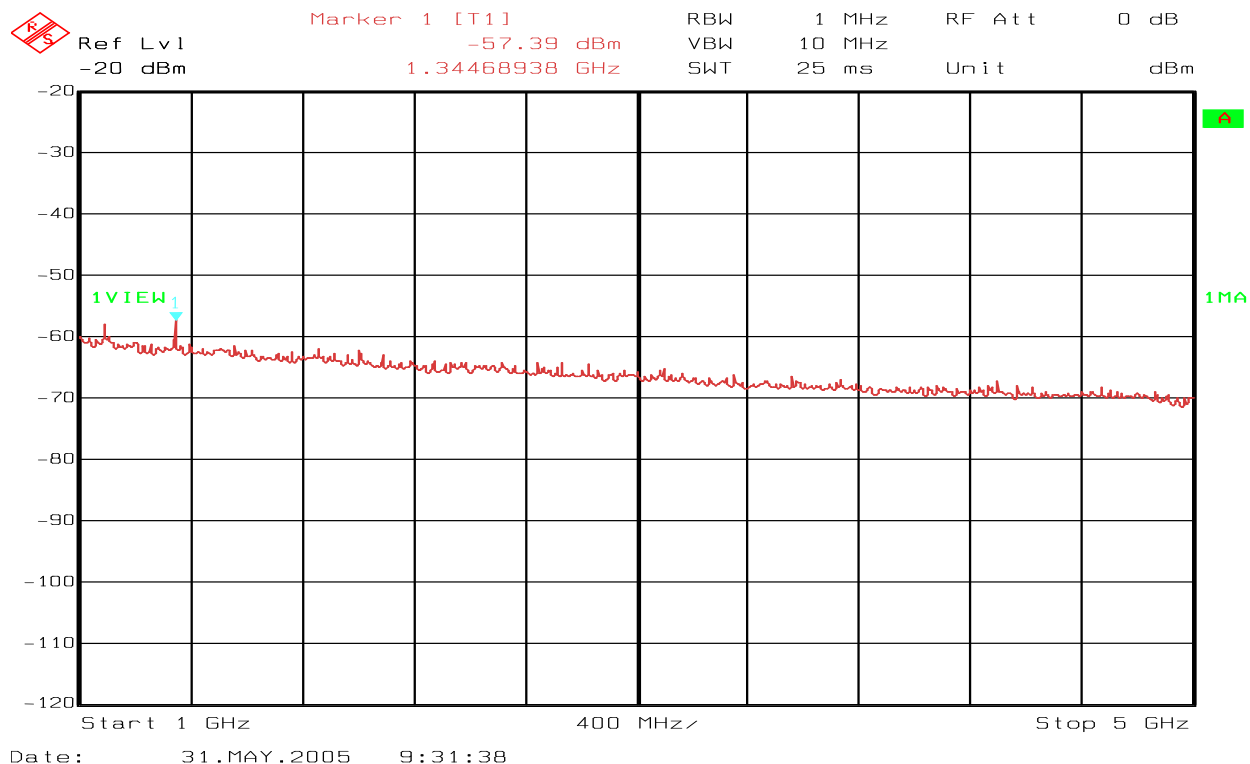
Conducted spurious – 3rd harmonic



Conducted spurious scan from 9 kHz – 500MHz



Conducted Spurious scan from 400MHz to 5GHz



Radiated spurious (terminated with 50 ohm load)

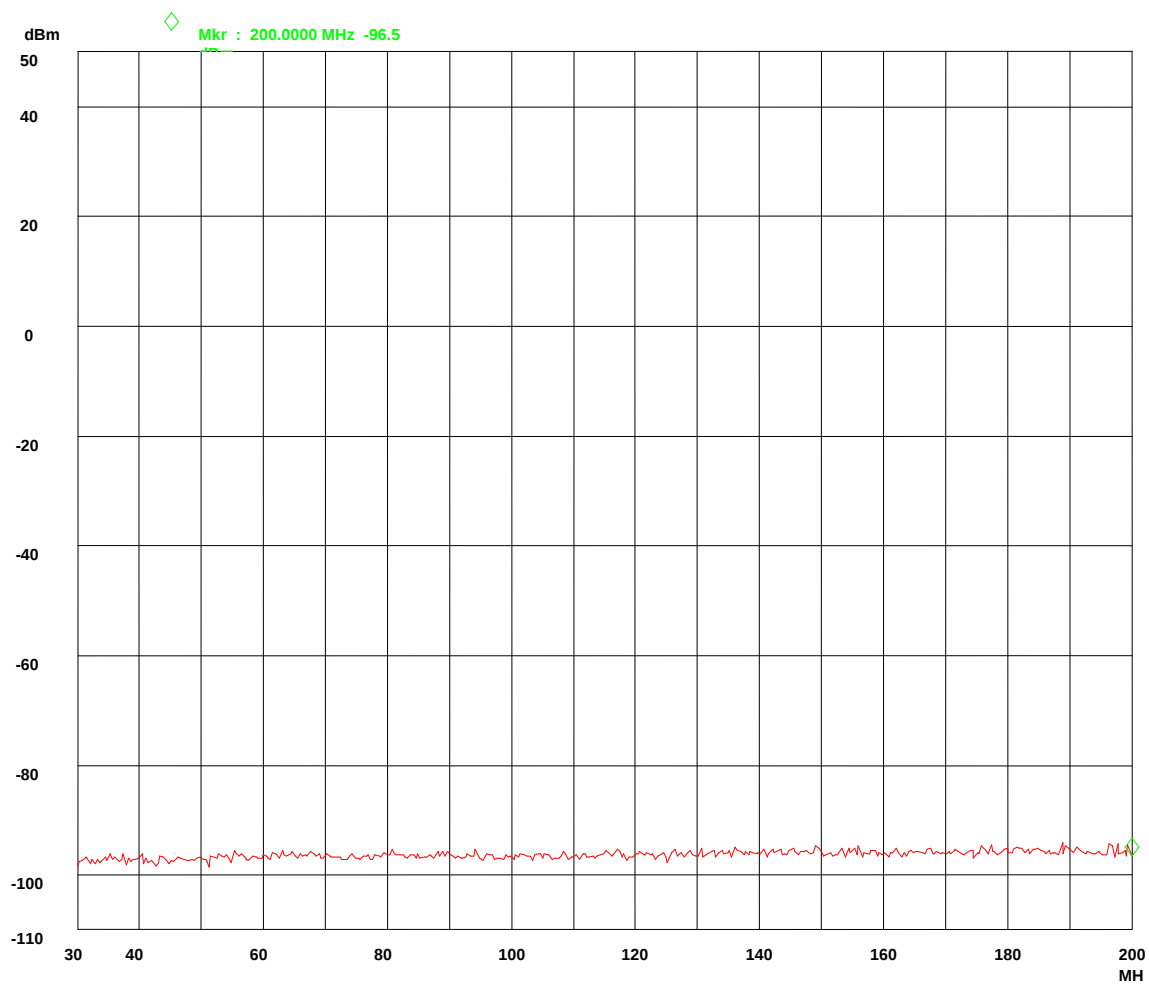
Nemko Comlab
Peak

31. May 05 10:28

EUT:
Manuf: Micro Control
Op Cond: 10hp
Operator: gns
Test Spec: FCC part 90
Comment: FCC1

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30M	200M	50k	120k	PK	50ms	AUTO	LN ON	60dB



Radiated spurious - HP - 30MHz - 200MHz

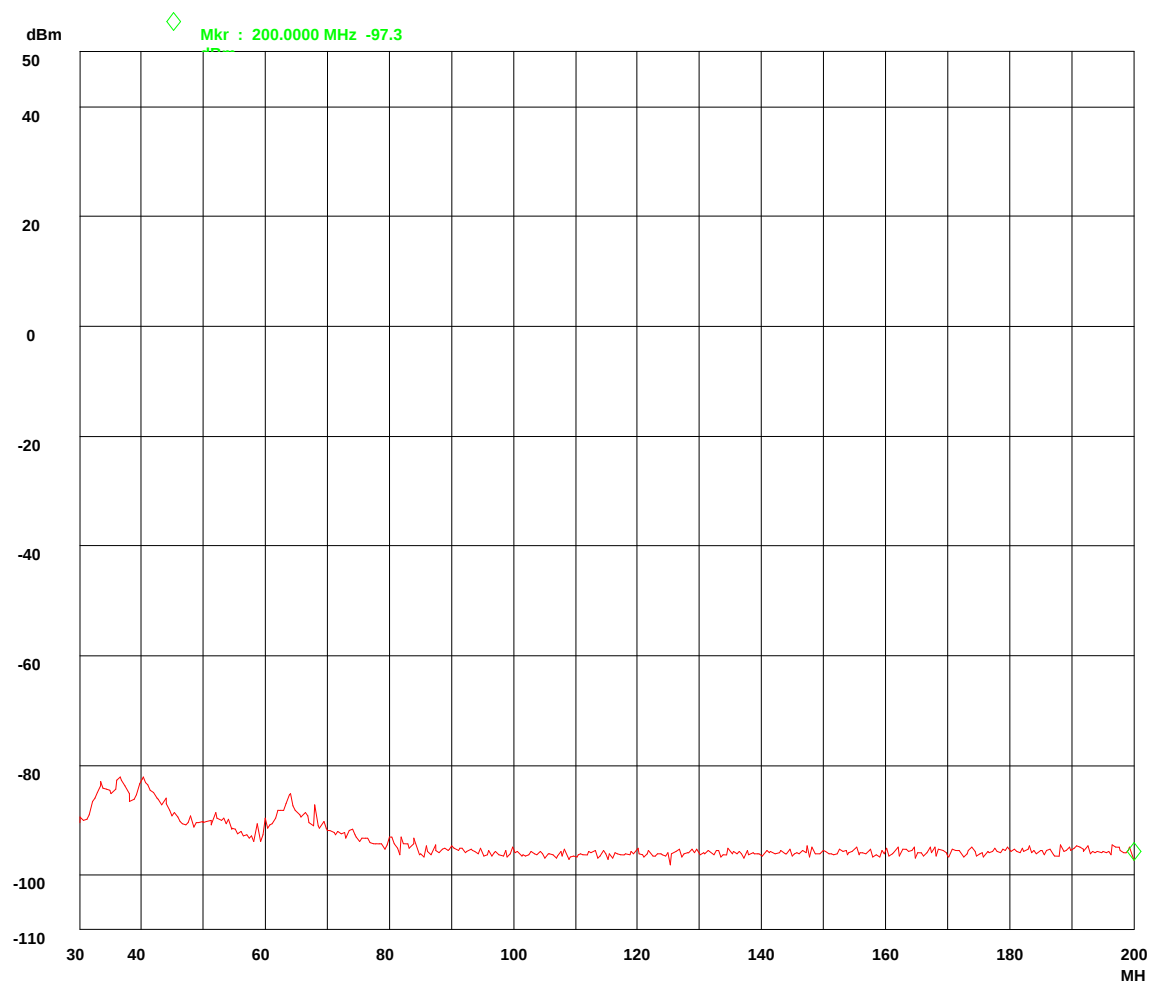
Nemko Comlab
Peak

31. May 05 10:24

EUT:
Manuf: Micro Control
Op Cond: 10vp
Operator: gns
Test Spec: FCC part 90
Comment: FCC1

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30M	200M	50k	120k	PK	50ms	AUTO	LN ON	60dB



Radated spurious - VP - 30MHz - 200MHz

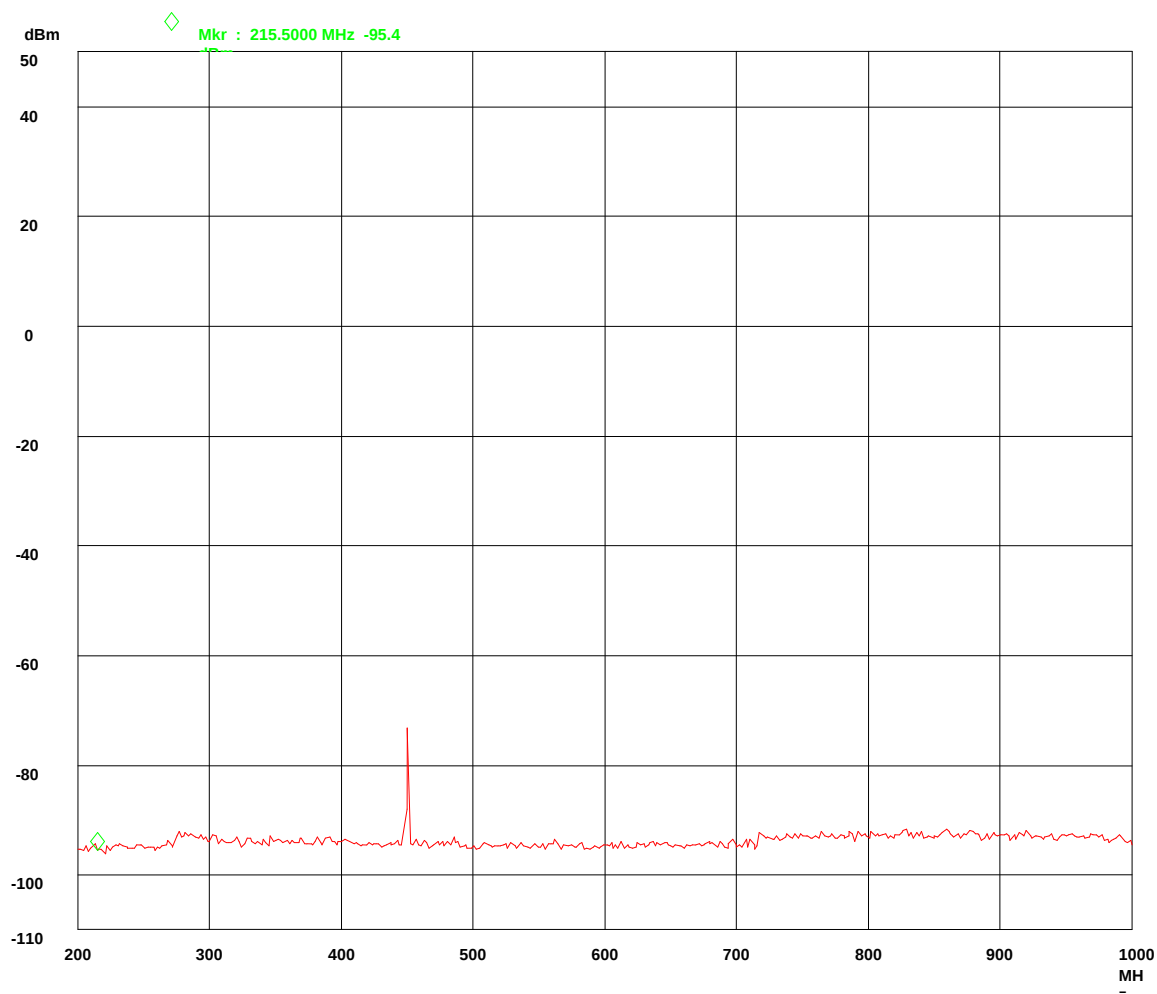
Nemko Comlab
Peak

31. May 05 10:10

EUT:
Manuf: Micro Control
Op Cond: 10hp
Operator: gns
Test Spec: FCC part 90
Comment: FCC1

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
200M	1000M	100k	120k	PK	50ms	AUTO	LN ON	60dB



Radiated spurious HP - 200 MHz – 1GHz

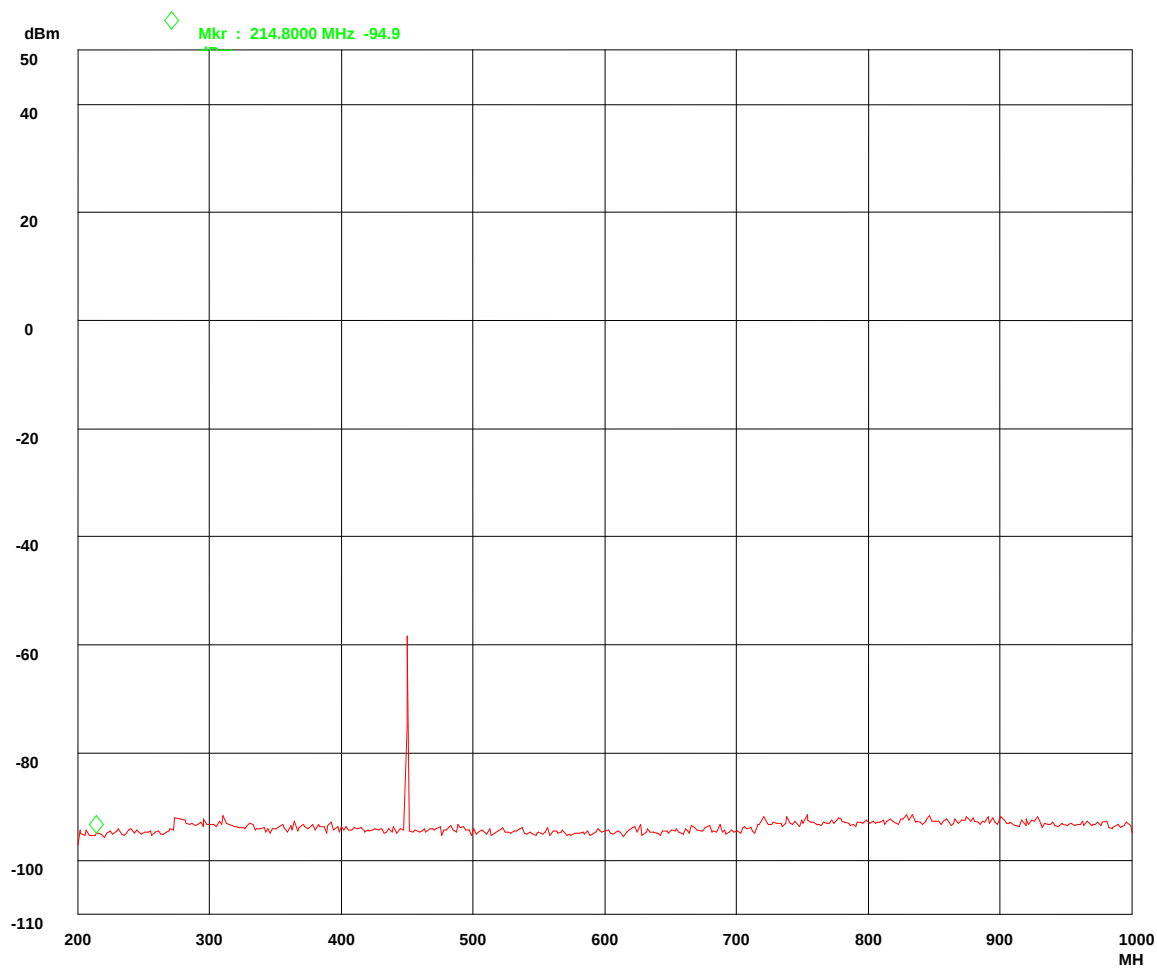
Nemko Comlab
Peak

31. May 05 10:01

EUT:
Manuf Micro Control
Op Cond: 10vp
Operator: gns
Test Spec: FCC part 90
Comment FCC1

Scan Settings (1 Range)

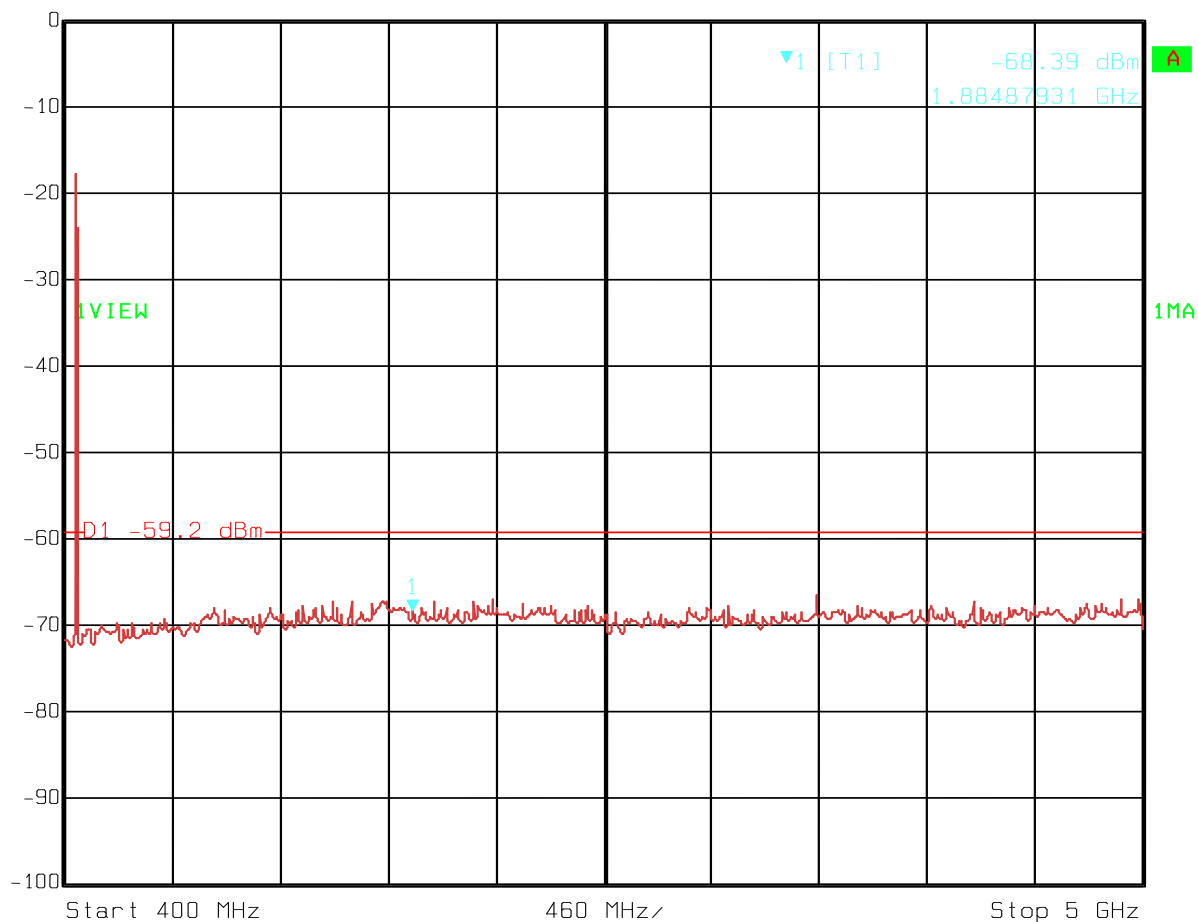
Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
200M	1000M	100k	120k	PK	50ms	AUTO	LN ON	60dB



Radiated Spurious - VP - 200MHz - 1GHz



Marker 1 [T1] RBW 3 MHz RF Att 10 dB
Ref Lvl -68.39 dBm VBW 3 MHz
0 dBm 1.88487931 GHz SWT 5 ms Unit dBm



Date: 11.JUL.2005 10:24:31

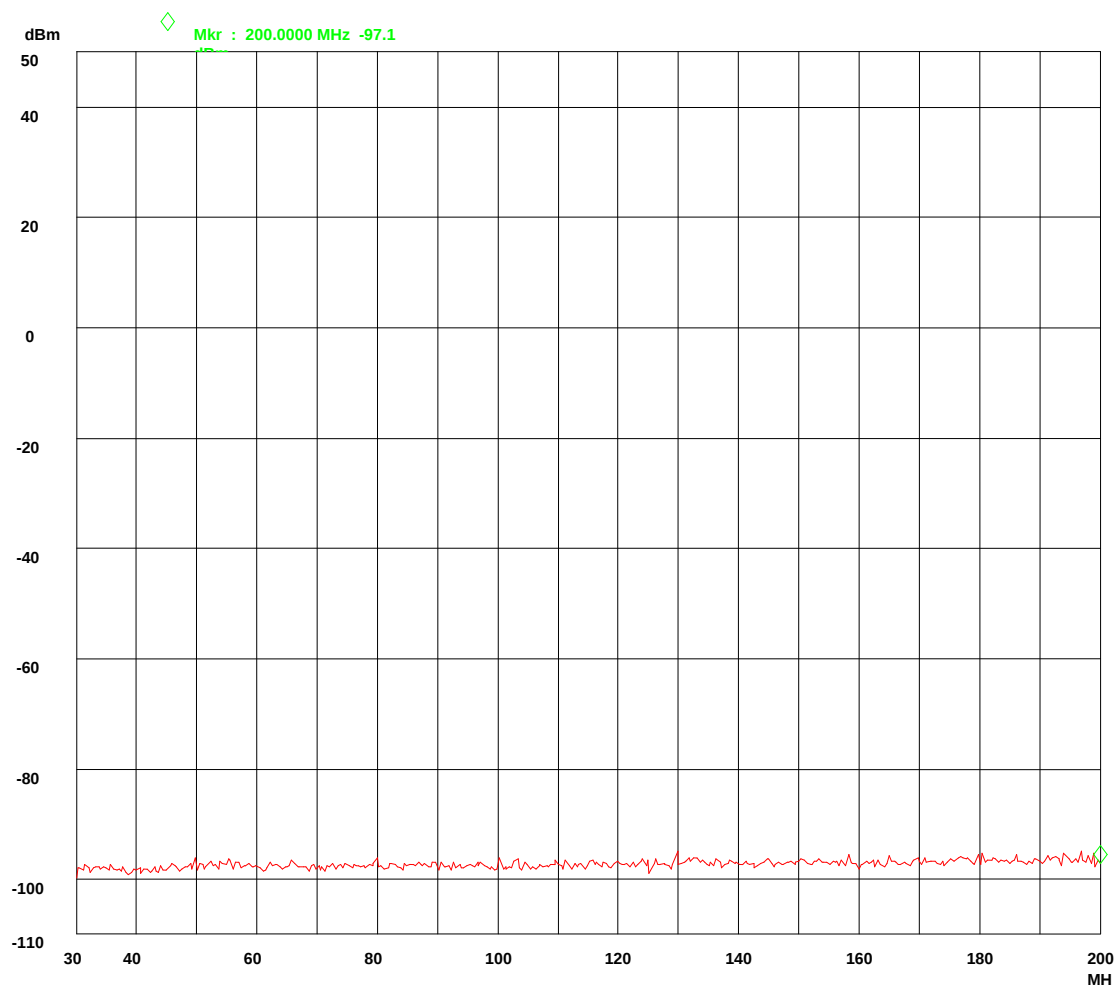
Radiated spurious emission with integral antenna (400 MHz – 5GHz)

Nemko Comlab
Peak11. Jul 05
09:27

EUT: CAVOTEC Microcontrol
Manuf: CAVOTEC
Op Cond: 10m
Operator: gns
Test Spec: fcc 90
Comment: r

Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30M	200M	50k	120k	PK	50ms	AUTO	LN ON	60dB



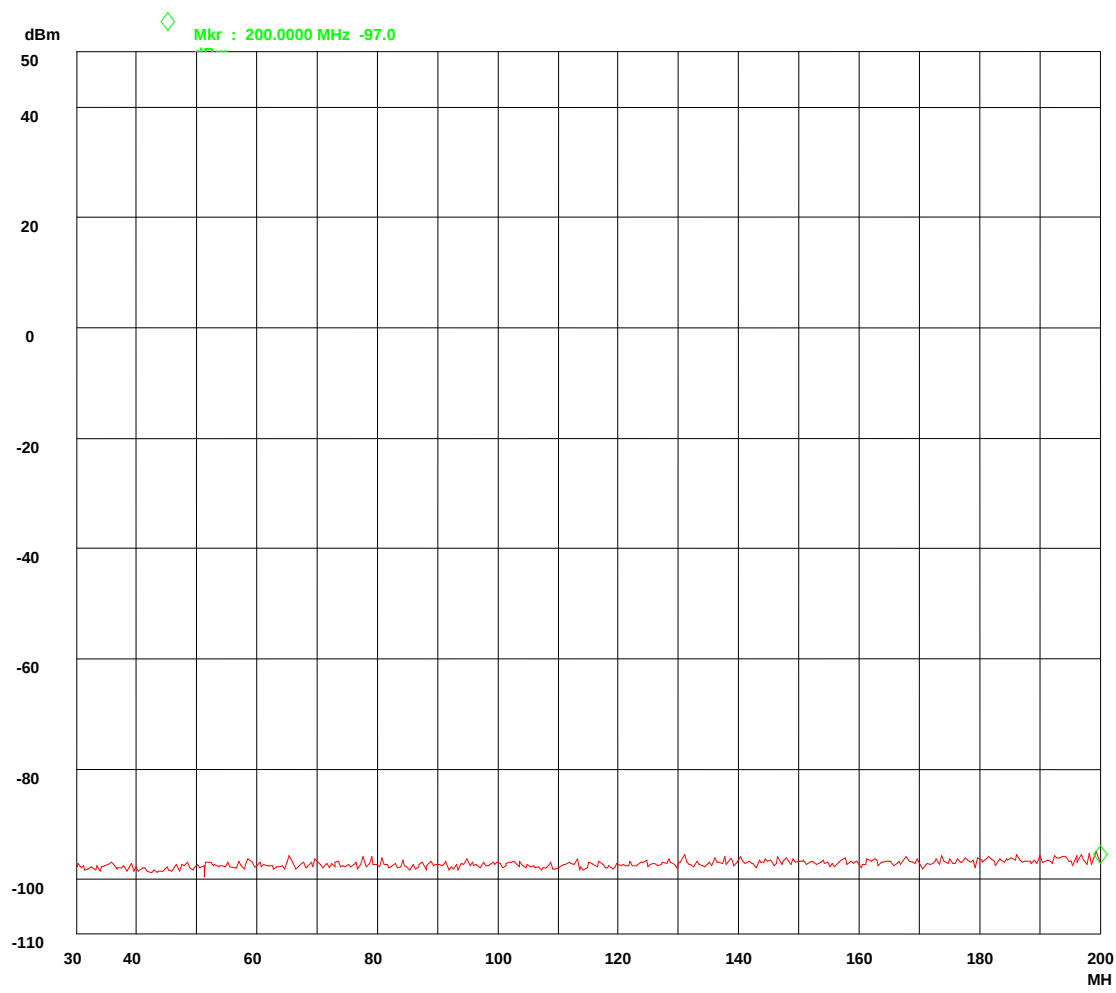
Spurious - 30 MHz to 200MHz (HP) in receiver mode

Nemko Comlab
Peak11. Jul 05
00:24

EUT: CAVOTEC Microcontrol
Manuf: CAVOTEC
Op Cond: 10m vp
Operator: gns
Test Spec: fcc 90
Comment: r

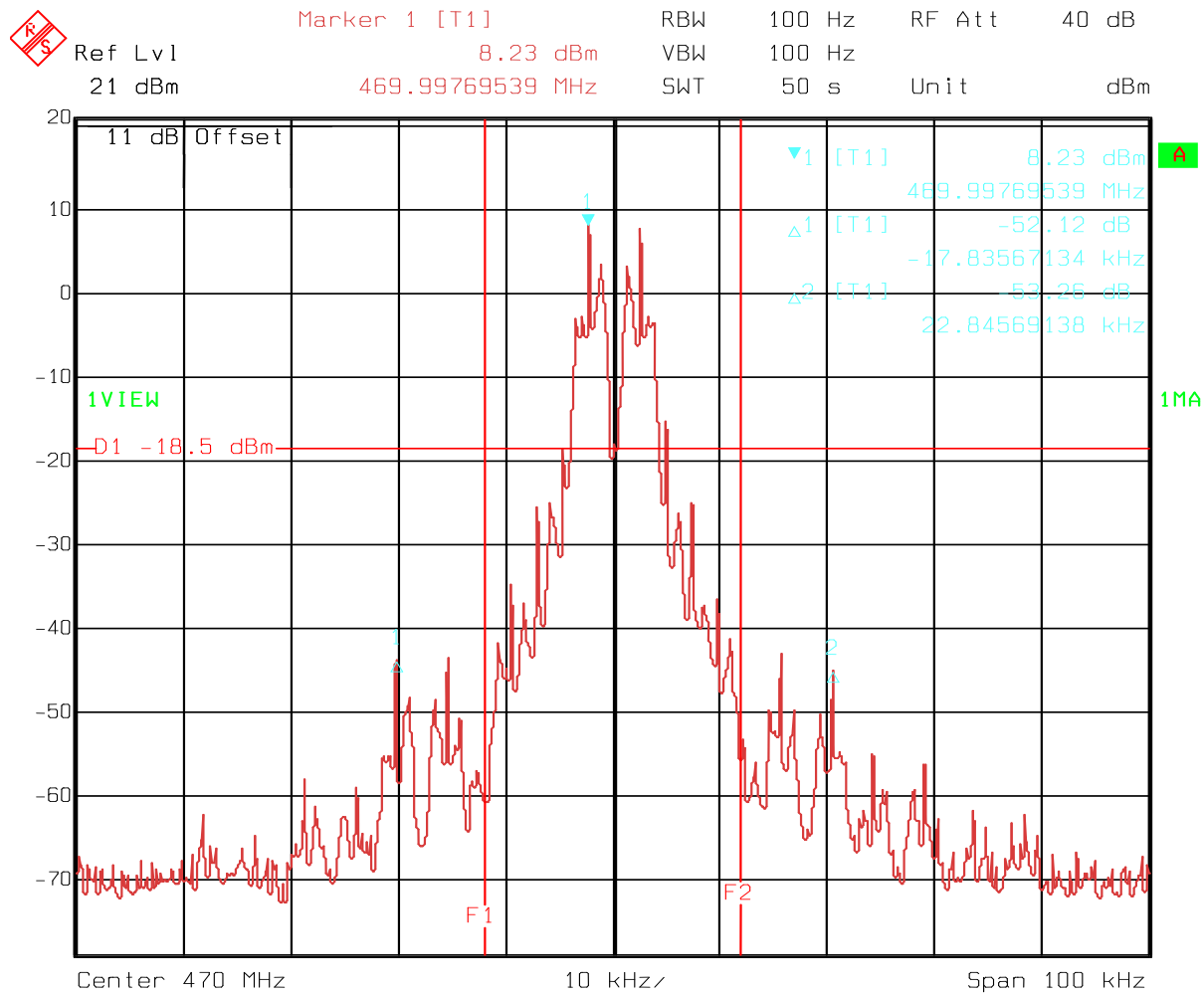
Scan Settings (1 Range)

Frequencies			Receiver Settings					
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
30M	200M	50k	120k	PK	50ms	AUTO	LN ON	60dB



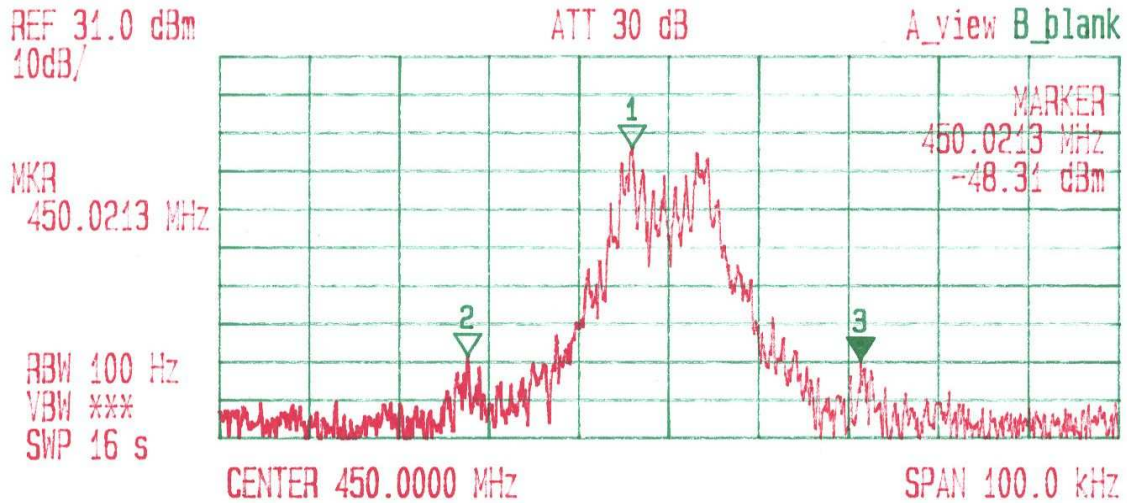
Spurious - 30MHz to 200MHz (VP) – In receiver mode





Date: 31.MAY.2005 10:47:19

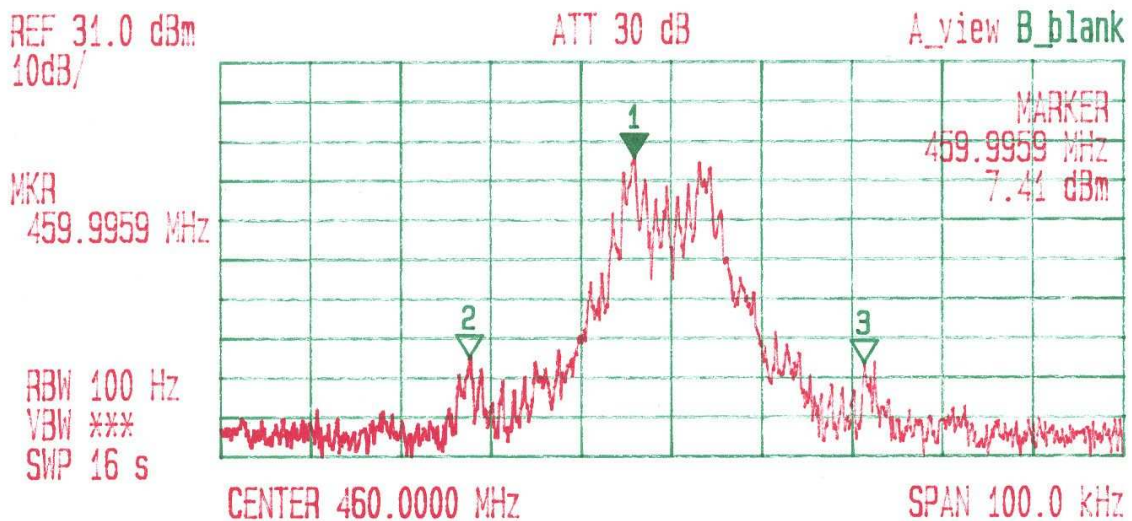
FCC2 - Modulated spectrum – 470MHz



*** Multi Marker List ***

No.1:	449.9959 MHz	7.41 dBm	A
No.2:	449.9776 MHz	-47.34 dBm	A
No.3:	450.0213 MHz	-48.31 dBm	A

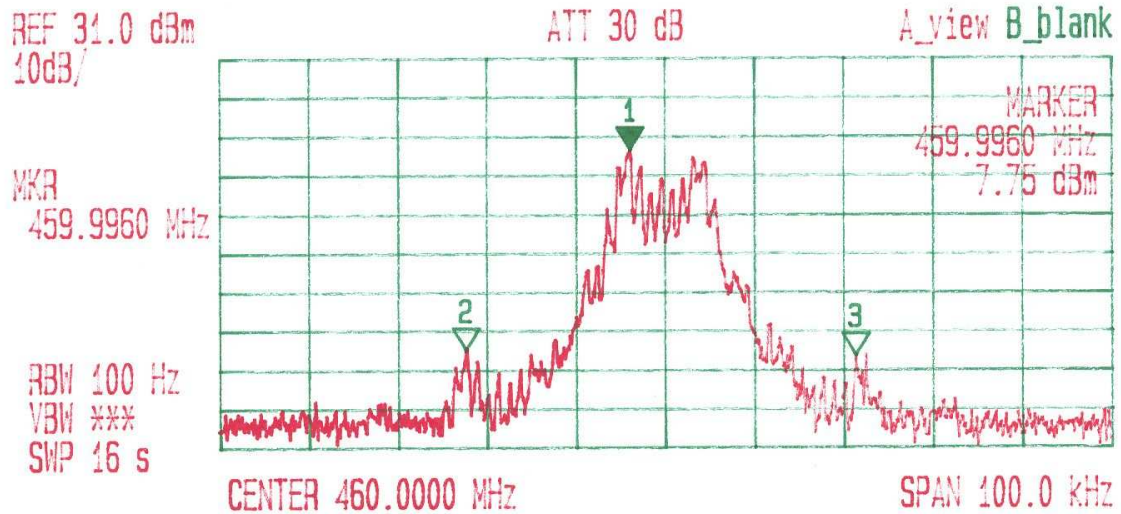
FCC1 - 450MHz - 25kHz



*** Multi Marker List ***

No.1:	459.9959 MHz	7.41 dBm	A
No.2:	459.9776 MHz	-43.97 dBm	A
No.3:	460.0213 MHz	-45.09 dBm	A

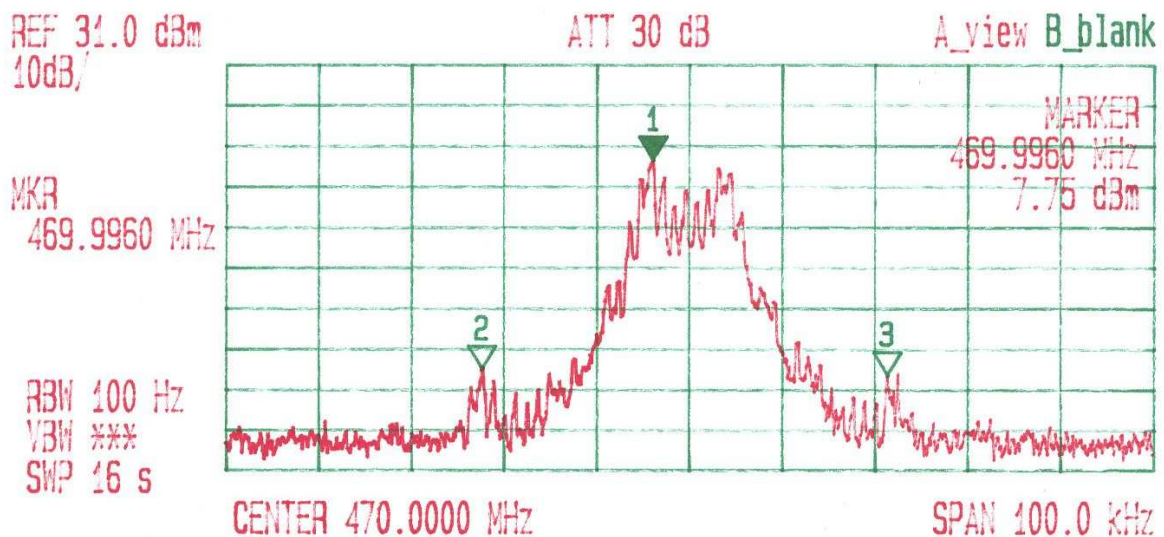
FCC1 - 460MHz - 25kHz



*** Multi Marker List ***

No.1:	459.9960 MHz	7.75 dBm	A
No.2:	459.9776 MHz	-43.97 dBm	A
No.3:	460.0213 MHz	-45.09 dBm	A

FCC2 – 460MHz – 25kHz



*** Multi Marker List ***

No.1:	469.9960 MHz	7.75 dBm	A
No.2:	469.9776 MHz	-43.97 dBm	A
No.3:	470.0213 MHz	-45.09 dBm	A

FCC2 – 470MHz – 25kHz