



# NPR F4HDK 4GFSK mode 21 FW 08.09.2019

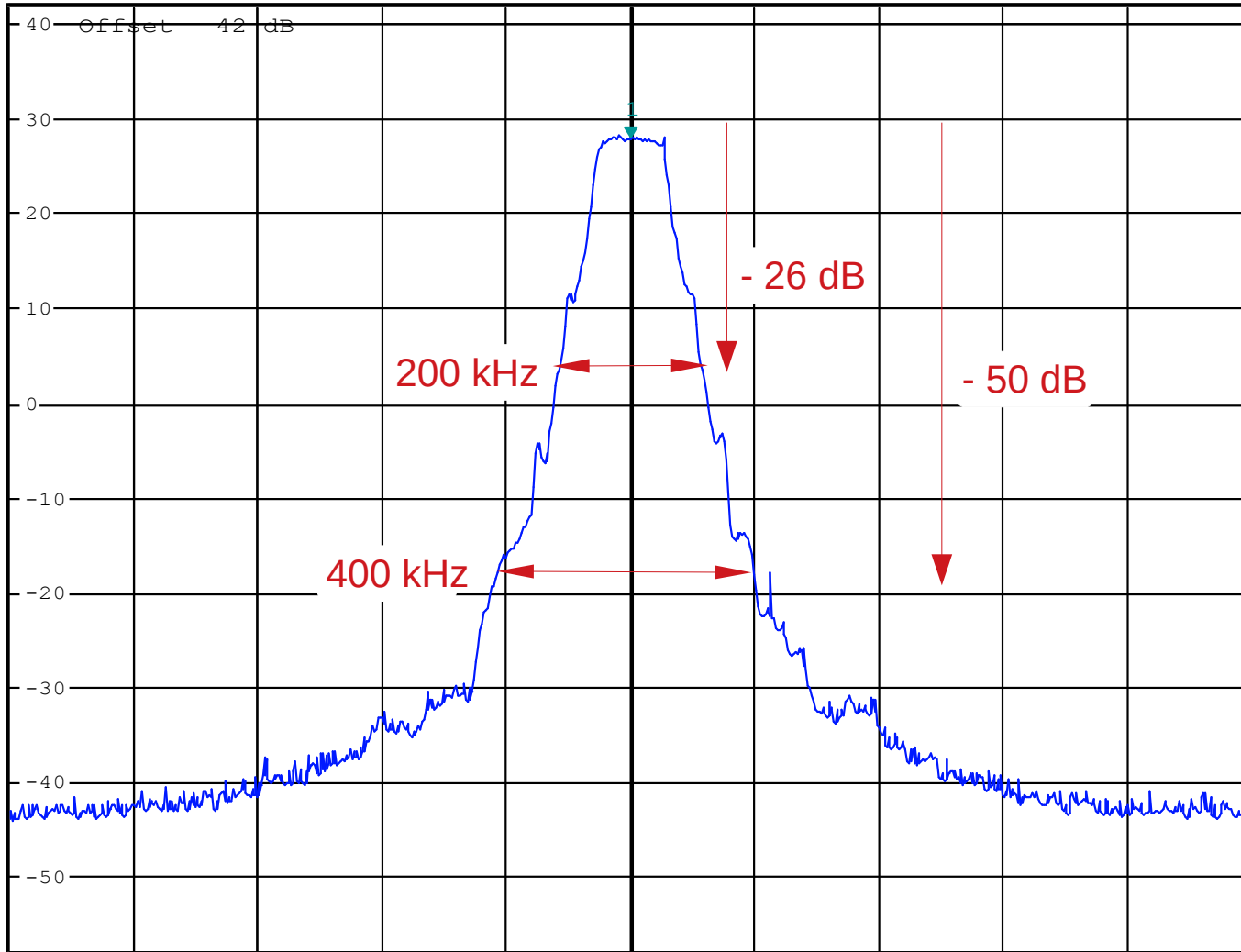


\* RBW 10 kHz      Marker 1 [T1 ]  
 VBW 30 kHz      27.75 dBm  
 SWT 80 ms      434.000000000 MHz

Ref 42 dBm

\* Att 0 dB

1 PK  
MAXH



A

Bandwidth  
@ -26 dB : 200 kHz

LVL

-50 dB

Bandwidth  
@ -50 dB : 400 kHz

3DB

400 kHz

200 kHz

-26 dB

Center 434 MHz

200 kHz/

Span 2 MHz



# NPR F4HDK 4GFSK with PA VR VP25 mode 21 FW 08.09.2019

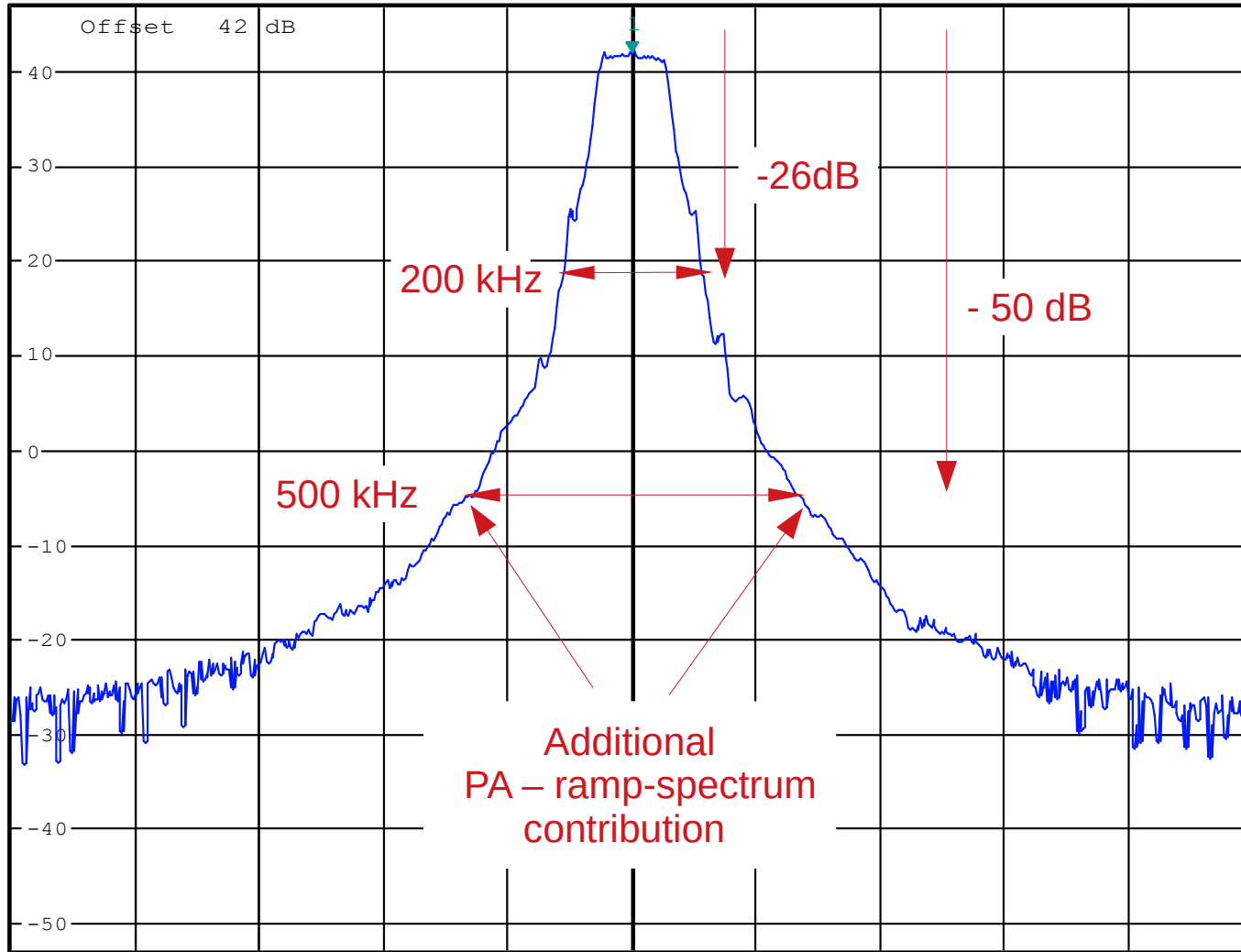


\* RBW 10 kHz      Marker 1 [T1 ]  
VBW 30 kHz      41.87 dBm  
SWT 80 ms      434.000000000 MHz

Ref 47 dBm

\* Att 0 dB

1 PK  
MAXH



A

Bandwidth  
@ -26 dB : 200 kHz

LVL

Bandwidth  
@ -50 dB : 500 kHz

3DB

Center 434 MHz

200 kHz/

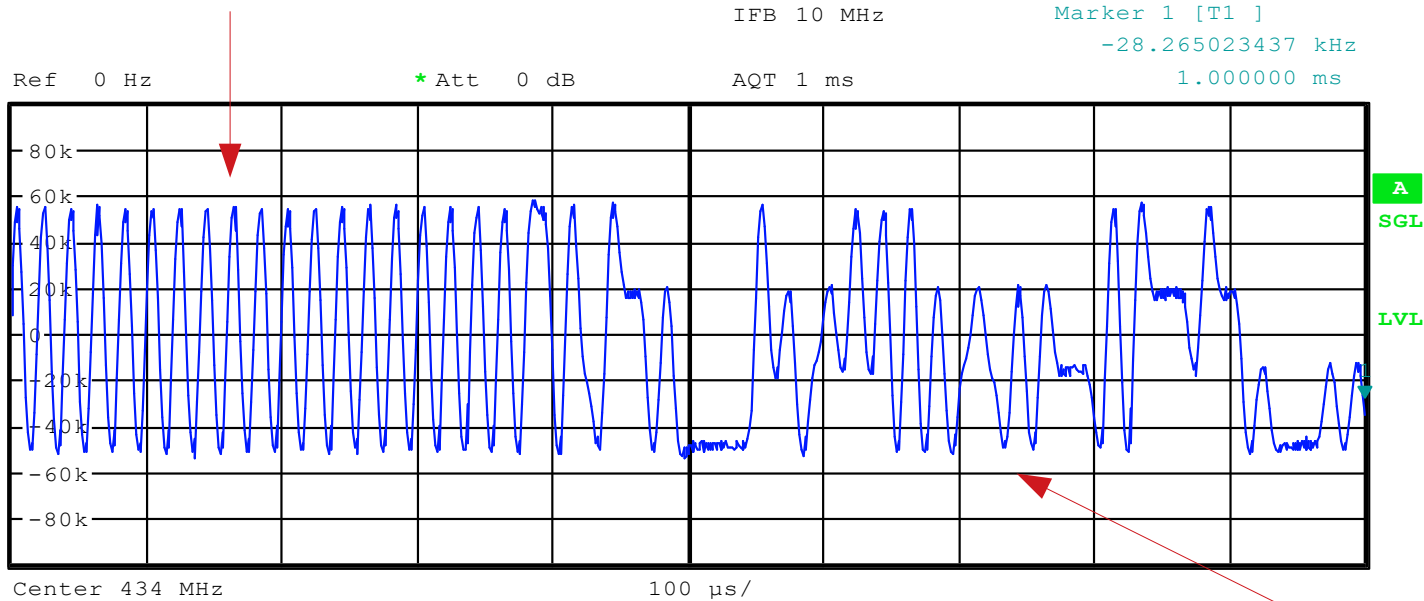
Span 2 MHz



# NPR F4HDK 4GFSK demodulated 4-level-FSK mode 21 FW 08.09.2019



preamble



### Frequency Modulation Summary

Coupling	DC	Carrier Offset	-6.6061 kHz
Deviation	+peak 57.72 kHz	Carrier Power	28.99 dBm
	-peak -54.67 kHz	Modulation Frequency	--- Hz
	↑peak/2 56.19 kHz	Sampling Rate	4 MHz
	RMS 35.30 kHz	Record Length	4001
		Demod Bandwidth	3 MHz

4 level FSK data



# NPR F4HDK 4GFSK harmonics of PA VR-VP25

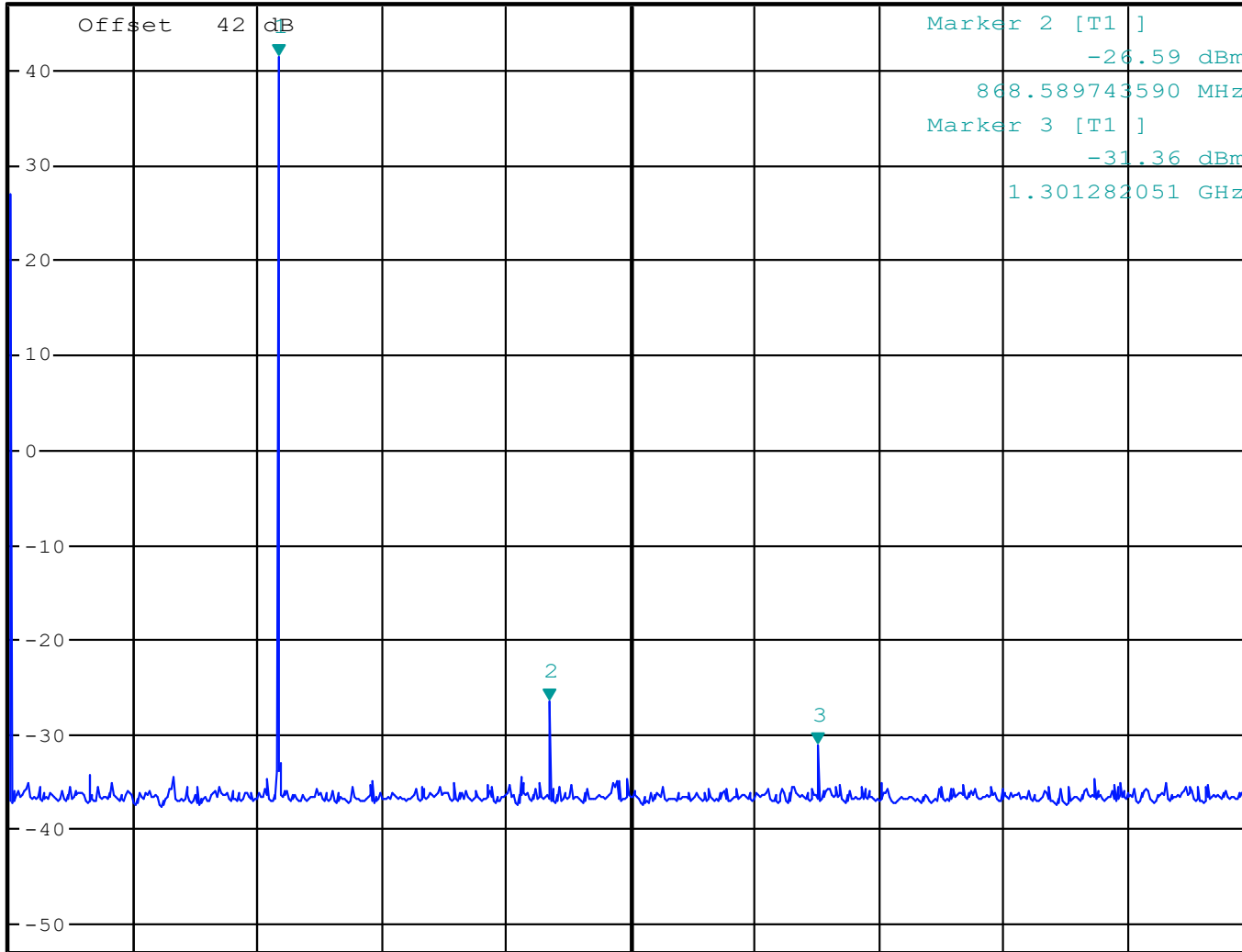


\*RBW 20 kHz      Marker 1 [T1 ]  
 VBW 50 kHz      41.43 dBm  
 SWT 5 s      432.692307692 MHz

Ref 47 dBm

\*Att 10 dB

1 PK  
MAXH



A

LVL

3dB

2nd harmonic:  
- 68 dBc

3rd harmonic:  
- 72 dBc

Harmonic suppression ok

Center 1 GHz

200 MHz/

Span 2 GHz

