

EXHIBIT 6f: MEASURED DATA – Pursuant 47 CFR 2.1041

6.11 900 ISM Band Carrier Separation between Hopsets – Pursuant 47 CFR, Part 15.247(a)(1)

The separation between frequencies is measured to be 500 kHz as shown in Figure 6-41.

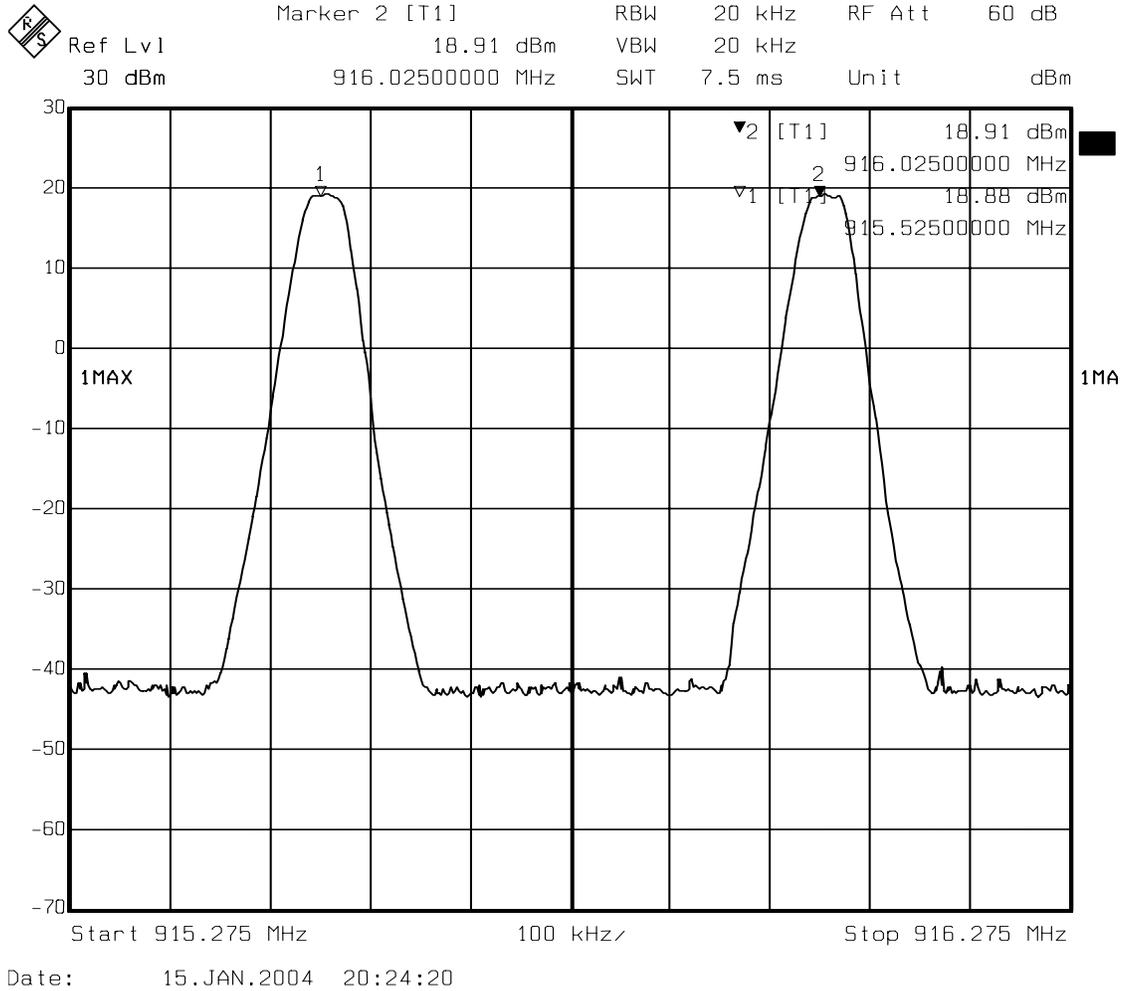


Figure 6-41. Plot of 900 MHz ISM Band adjacent channel separation within a hopset.

6.12 900 ISM Band Hopping Bandwidth between Hopsets –Pursuant 47 CRF, Part 15.247 (a)(1)(i)

Figure 6-42 shows the plot of the 8-FSK, traffic channel ISM Band spectrum with its 20 dB bandwidth of 25.65 kHz. .

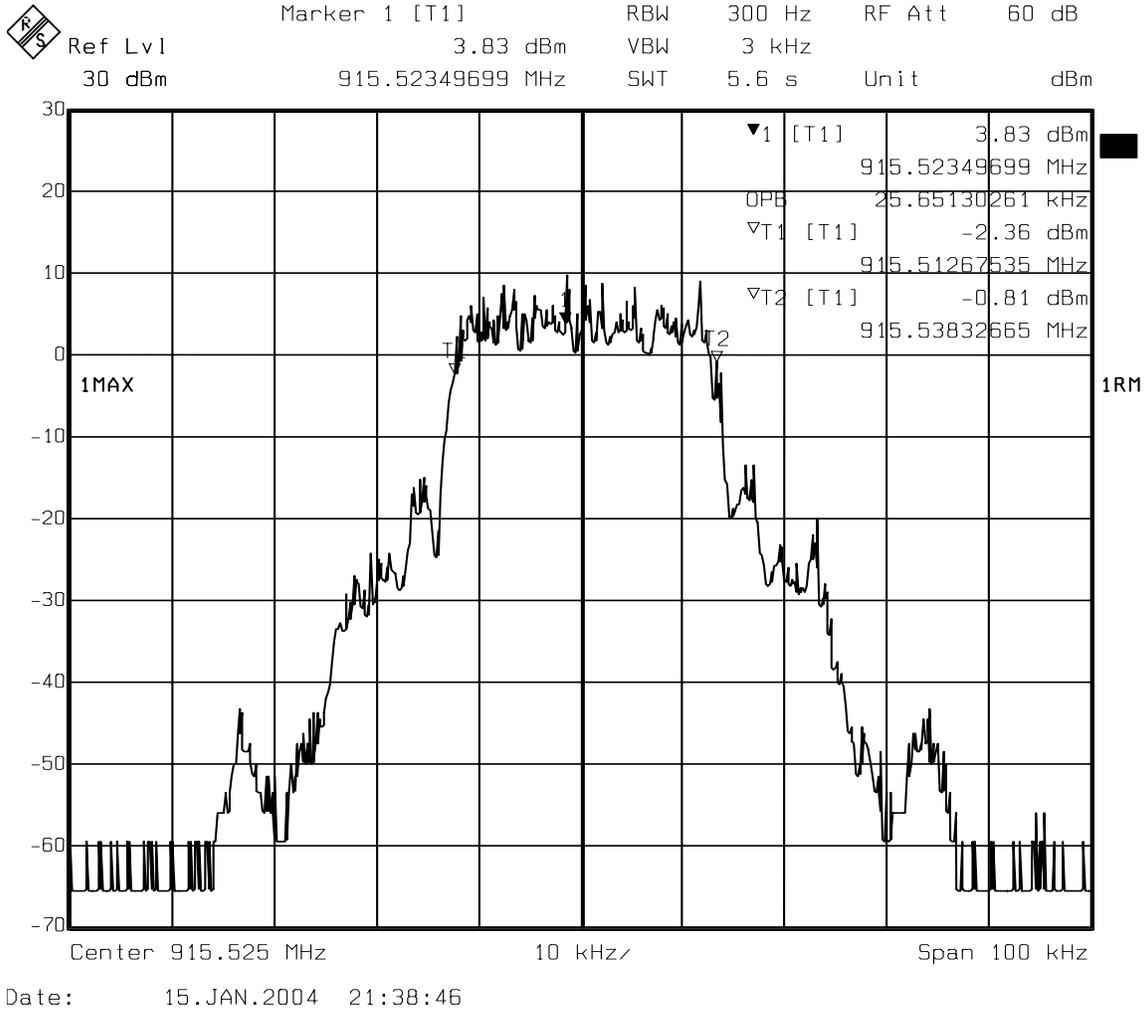
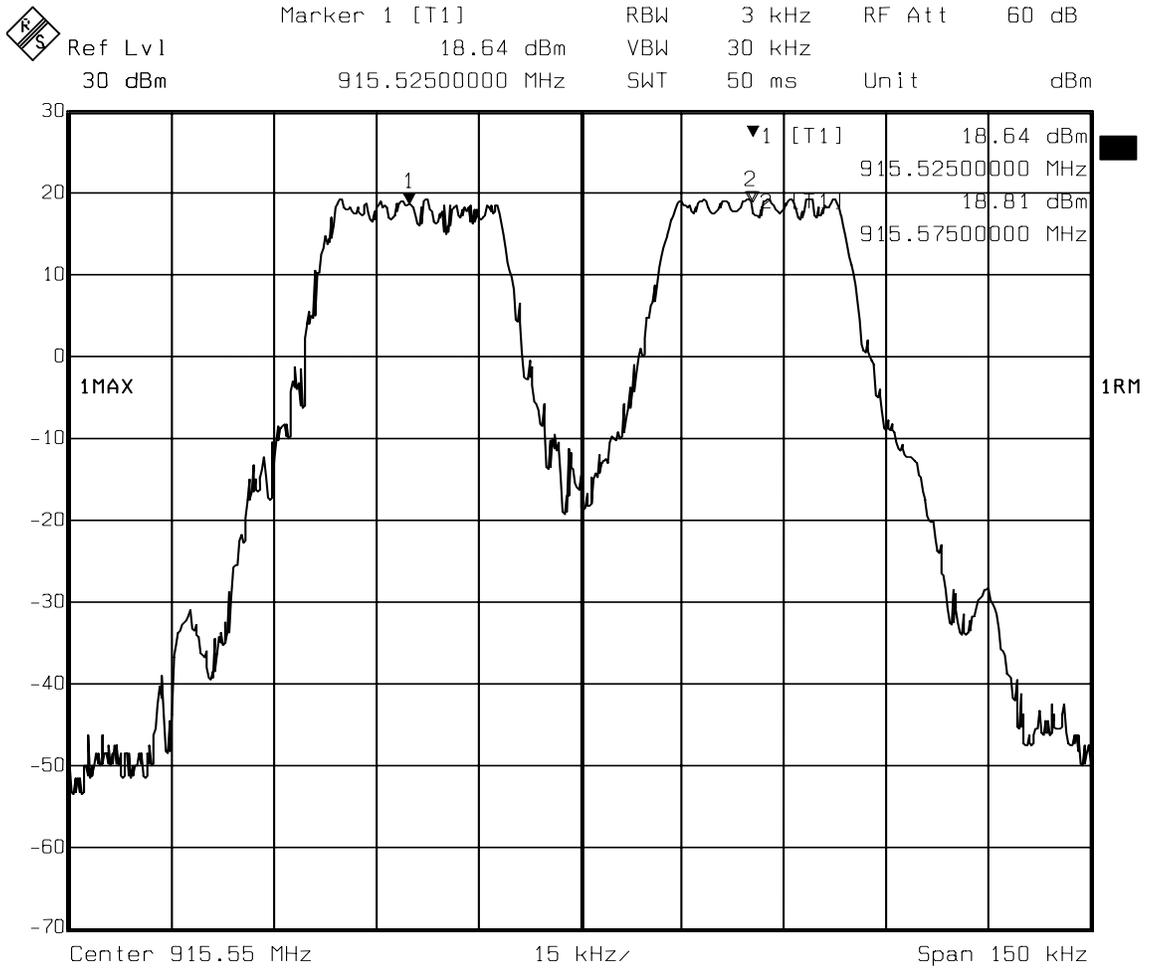


Figure 6-42. Spectrum analyzer plot of 900 MHz ISM Band 8-FSK traffic channel signal's 99% Bandwidth

The adjacent hopset channel separation was measured between hopset @ 915.525 MHz and hopset @ 916.025 MHz which is 50 kHz.



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Figure 6-43. Adjacent hopset separation.

6.13 900 ISM Band Receiver Bandwidth – Pursuant 47 CFR, Part 15.247(a)(1)

The receiver bandwidth is limited by a 2-pole analog filter and digital processing that includes a 5th order sinc filter, IIR high-pass programmable bandwidth filter, and a 15th order programmable selectivity filter. The composite 3dB bandwidth is 28kHz.

6.14 900 ISM Band Number of Hopping Frequencies – Pursuant 47 CFR, 15.247(a)(1)(i)

The 900 MHz ISM Band transmitter uses 50 frequencies within each selected hopset.

Hopset	1 st Frequency (MHz)	Progression (MHz)	Last (50th) Frequency (MHz)
1	902.525	903.025, 903.525, 904.025...	927.025
2	902.575	903.075, 903.575, 904.075...	927.075
3	902.625	903.125, 903.625, 904.125...	927.125
4	902.675	903.175, 903.675, 904.175...	927.175

5	902.725	903.225, 903.725, 904.225...	927.225
6	902.775	903.275, 903.775, 904.275...	927.275
7	902.825	903.325, 903.825, 904.325...	927.325
8	902.875	903.375, 903.875, 904.375...	927.375
9	902.925	903.425, 903.925, 904.425...	927.425
10	902.975	903.475, 903.975, 904.475...	927.475

Table 6-6. 900 MHz Band Transmitter Frequency Hopsets.

6.15 900 ISM Band Average Time of Occupancy – Pursuant 47 CFR, Part 15.247(a)(1)(i)

Worst case scenario (continuous transmission) is as follows:

85.625 ms bursts at 90 ms intervals (hop intervals)

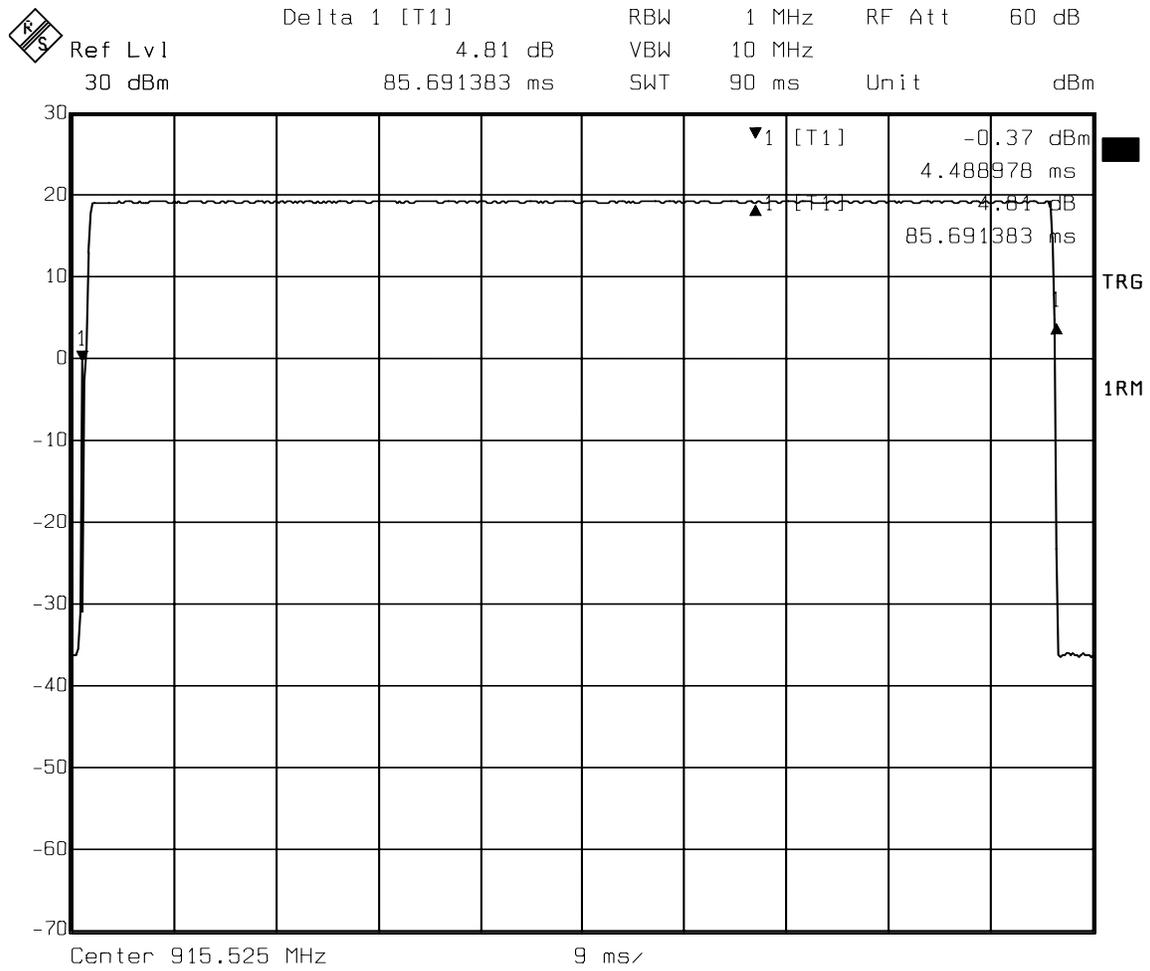
20 seconds per window / 0.09 seconds per hop = 222.22 hops per window

222.22 hops / 50 carriers = 4.444 bursts per carrier window

4.444 bursts * 0.08569183 seconds per burst = 0.381 seconds (less than the 0.4 second requirement)

The calculations show the average time of occupancy of 0.4 seconds or less.

Verification of burst is shown in Figure 6-44 below.



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Figure 6-44. 900 MHz ISM Band Average Measured Time of Occupancy.

6.16 900 ISM Band Equal Distribution of Hopping Frequencies for Continuous Transmission – Pursuant 47 CFR, Part 15.247(a)(1)(i) & 15.247(g)

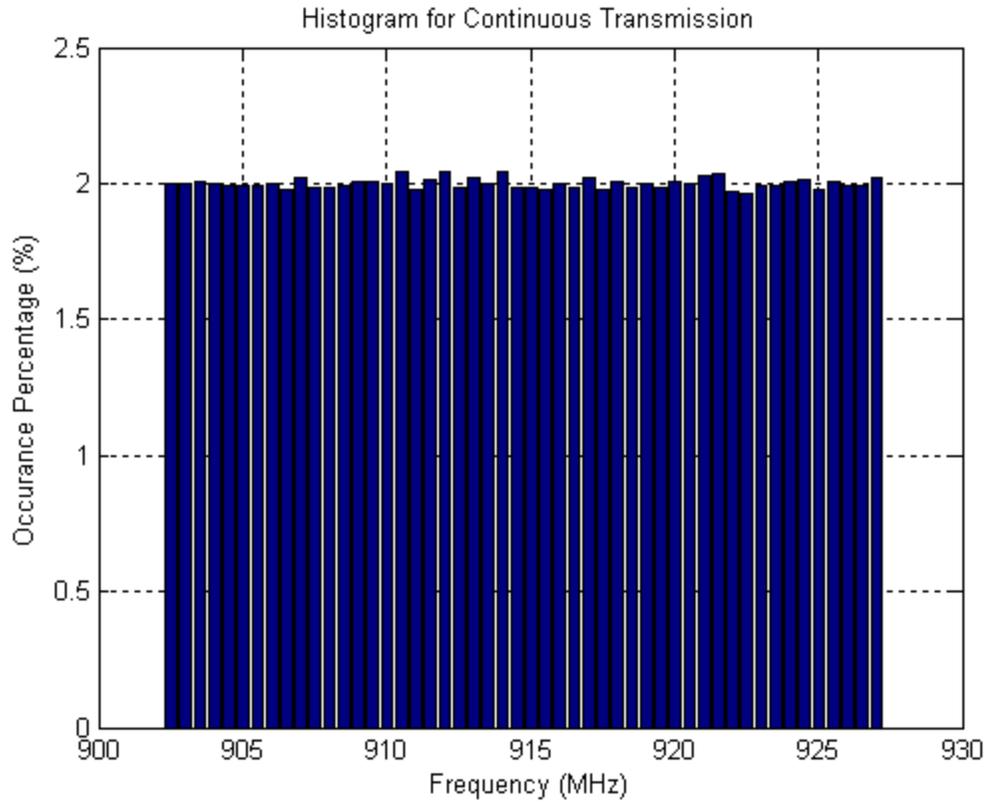


Figure 6-45. Histogram for 900 MHz ISM Band Continuous Transmission

6.17 900 ISM Band Equal Distribution of Hopping Frequencies for Discontinuous Transmission - Pursuant 47 CFR, Part 15.247(a)(1)(i) & 15.247(g)

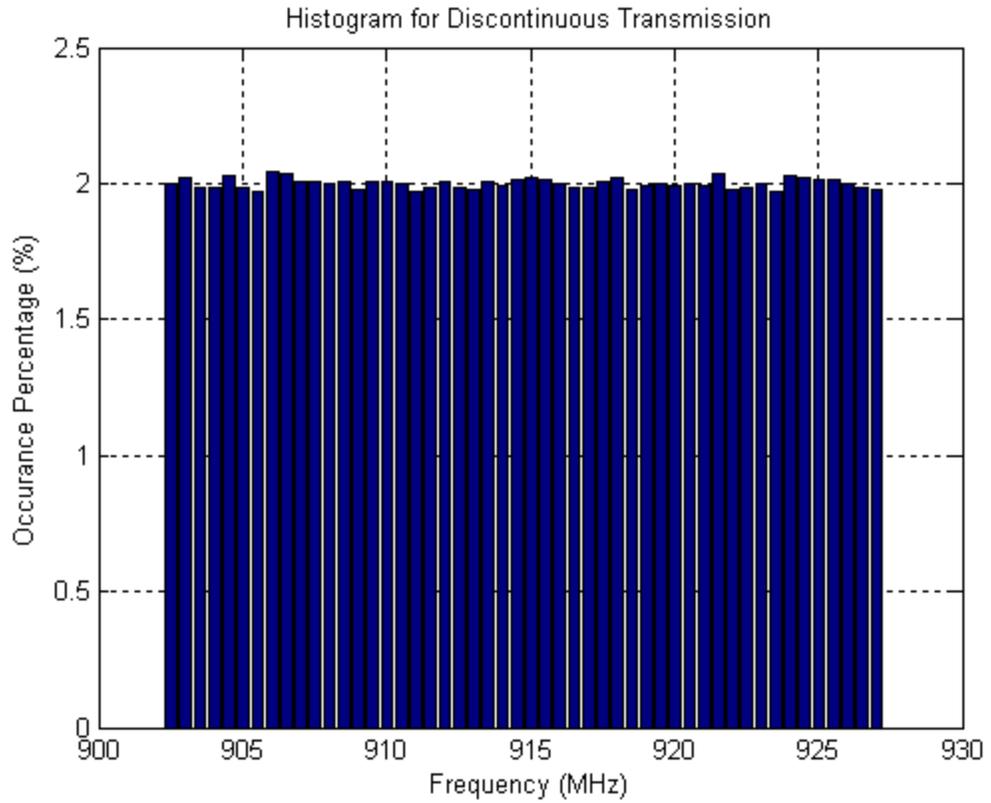


Figure 6-46. Histogram for 900 MHz ISM Band Discontinuous Transmission