GFSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	PMea(dBuv/m)	Polarization
2386.535	41.5	-38.8	52.600	V
17992.500	41.5	-17.7	13.600	V
17998.500	41.5	-17.7	13.600	H
18000.000	41.4	-45.6	42.466	V
17995.500	41.3	-17.7	13.400	V
17997.000	41.3	-17.7	13.400	H

GFSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
18000.000	41.5	-45.6	42.566	V
17997.000	41.5	-17.7	13.600	H
17995.500	41.4	-17.7	13.500	V
17998.500	41.3	-17.7	13.400	V
17989.500	41.3	-17.7	13.400	H
17941.500	41.2	-17.7	13.300	H

GFSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2494.235	41.8	-38.9	53.000	V
17995.500	41.5	-17.7	13.600	H
18000.000	41.3	-45.6	42.366	H
17989.500	41.3	-17.7	13.400	H
17997.000	41.3	-17.7	13.400	V
17998.500	41.3	-17.7	13.400	V

π/4 DQPSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2387.475	41.6	-38.8	52.700	V
17995.500	41.5	-17.7	13.600	H
17994.000	41.5	-17.7	13.600	V
17989.500	41.4	-17.7	13.500	V
17998.500	41.4	-17.7	13.500	H
18000.000	41.2	-45.6	42.266	H

π/4 DQPSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17994.000	41.5	-17.7	13.600	V
17998.500	41.5	-17.7	13.600	V
17992.500	41.5	-17.7	13.600	H
18000.000	41.5	-45.6	42.566	V
17997.000	41.4	-17.7	13.500	V
17989.500	41.3	-17.7	13.400	H

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π/4 DQPSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2484.825	41.6	-38.9	52.800	V
17994.000	41.4	-17.7	13.500	H
18000.000	41.4	-45.6	42.466	V
17995.500	41.4	-17.7	13.500	V
17997.000	41.3	-17.7	13.400	H
17986.500	41.3	-17.7	13.400	H

8DPSK Ch 0 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2385.215	41.6	-38.8	52.700	V
17998.500	41.4	-17.7	13.500	H
18000.000	41.3	-45.6	42.366	H
17988.000	41.2	-17.7	13.300	V
17989.500	41.2	-17.7	13.300	V
17997.000	41.2	-17.7	13.300	H

8DPSK Ch 39 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17997.000	41.4	-17.7	13.500	V
17992.500	41.3	-17.7	13.400	H
17998.500	41.3	-17.7	13.400	H
18000.000	41.2	-45.6	42.266	H
17991.000	41.2	-17.7	13.300	V
17988.000	41.2	-17.7	13.300	V

8DPSK Ch 78 - Average

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2485.665	41.9	-38.9	53.100	V
17998.500	41.4	-17.7	13.500	H
17991.000	41.3	-17.7	13.400	V
17982.000	41.2	-17.7	13.300	V
17992.500	41.2	-17.7	13.300	H
18000.000	41.2	-45.6	42.266	V

GFSK Ch 0 – Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	PMea(dBuv/m)	Polarization
2386.500	54.6	-38.8	65.700	V
17916.000	52.6	-17.7	24.700	H
17932.500	52.5	-17.7	24.600	V
17914.500	52.5	-17.7	24.600	H
17907.000	52.4	-18.5	25.300	V
17851.500	52.3	-18.5	25.200	V

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GFSK Ch 39 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17989.500	53.1	-17.7	25.200	H
18000.000	52.9	-45.6	53.966	V
17928.000	52.8	-17.7	24.900	V
17971.500	52.7	-17.7	24.800	H
17991.000	52.7	-17.7	24.800	V
17997.000	52.7	-17.7	24.800	V

GFSK Ch 78 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2494.200	54.7	-38.9	65.900	V
17818.500	52.9	-18.5	25.800	H
17908.500	52.8	-18.5	25.700	H
17986.500	52.8	-17.7	24.900	H
17967.000	52.8	-17.7	24.900	V
17985.000	52.8	-17.7	24.900	V

π/4 DQPSK Ch 0 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2387.450	55.3	-38.8	66.400	V
17982.000	54.2	-17.7	26.300	H
17955.000	53.3	-17.7	25.400	V
17917.500	53.2	-17.7	25.300	V
17919.000	53.1	-17.7	25.200	H
17926.500	53.0	-17.7	25.100	H

π/4 DQPSK Ch 39 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17934.000	52.9	-17.7	25.000	V
17923.500	52.8	-17.7	24.900	V
17932.500	52.8	-17.7	24.900	H
17979.000	52.6	-17.7	24.700	V
17914.500	52.6	-17.7	24.700	V
17823.000	52.5	-18.5	25.400	H

π/4 DQPSK Ch 78 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2484.830	55.2	-38.9	66.400	V
17832.000	53.4	-18.5	26.300	H
17964.000	53.1	-17.7	25.200	V
18000.000	52.9	-45.6	53.966	V
17992.500	52.8	-17.7	24.900	H
17986.500	52.7	-17.7	24.800	H

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8DPSK Ch 0 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2385.260	53.9	-38.8	65.000	V
17986.500	53.8	-17.7	25.900	H
18000.000	53.7	-45.6	54.766	H
17944.500	53.1	-17.7	25.200	V
17904.000	53.1	-18.5	26.000	V
17881.500	52.9	-18.5	25.800	H

8DPSK Ch 39 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
17869.500	52.7	-18.5	25.600	H
17911.500	52.7	-18.5	25.600	H
17895.000	52.5	-18.5	25.400	V
17929.500	52.5	-17.7	24.600	V
17994.000	52.5	-17.7	24.600	V
17968.500	52.5	-17.7	24.600	H

8DPSK Ch 78 - Peak

Frequency(MHz)	Result(dBuv/m)	ARPL (dB)	Pmea(dBuv/m)	Polarization
2485.660	54.0	-38.9	65.200	V
17989.500	52.6	-17.7	24.700	H
17991.000	52.6	-17.7	24.700	V
17848.500	52.6	-18.5	25.500	V
17958.000	52.4	-17.7	24.500	H
17818.500	52.4	-18.5	25.300	V

Conclusion: PASS

Test graphs as below:

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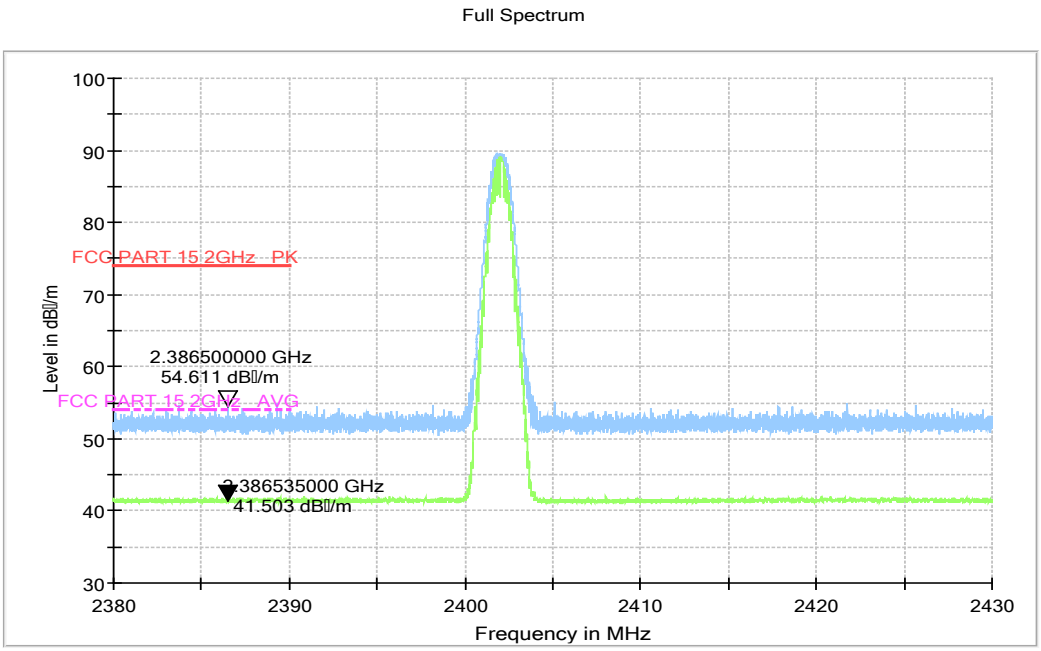

Fig.58. Radiated emission (Power): GFSK, low channel

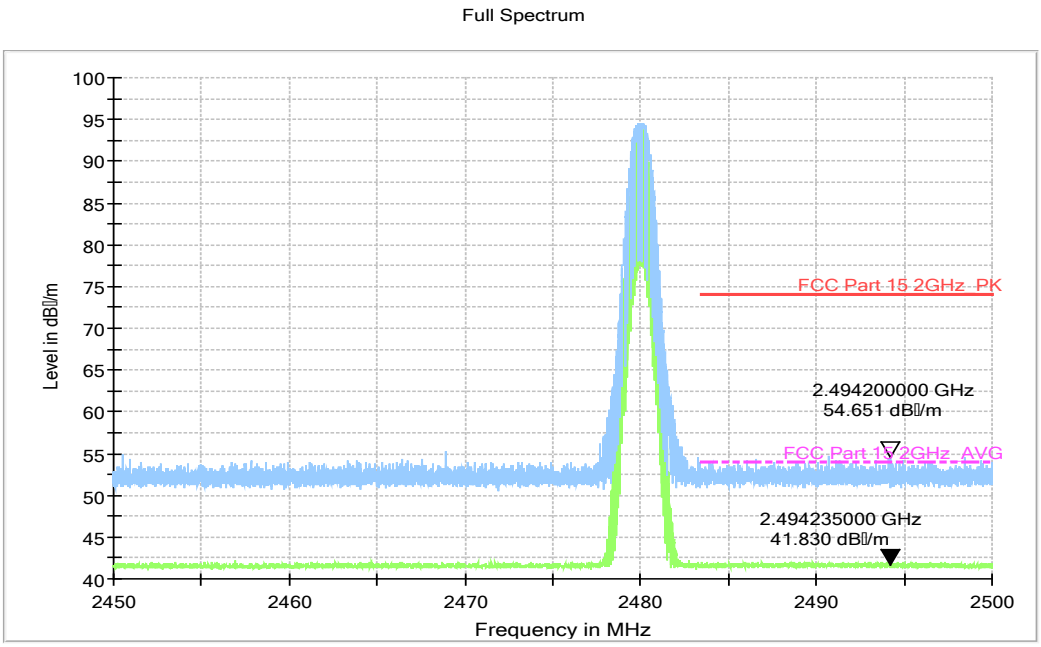

Fig.59. Radiated emission (Power) GFSK, high channel

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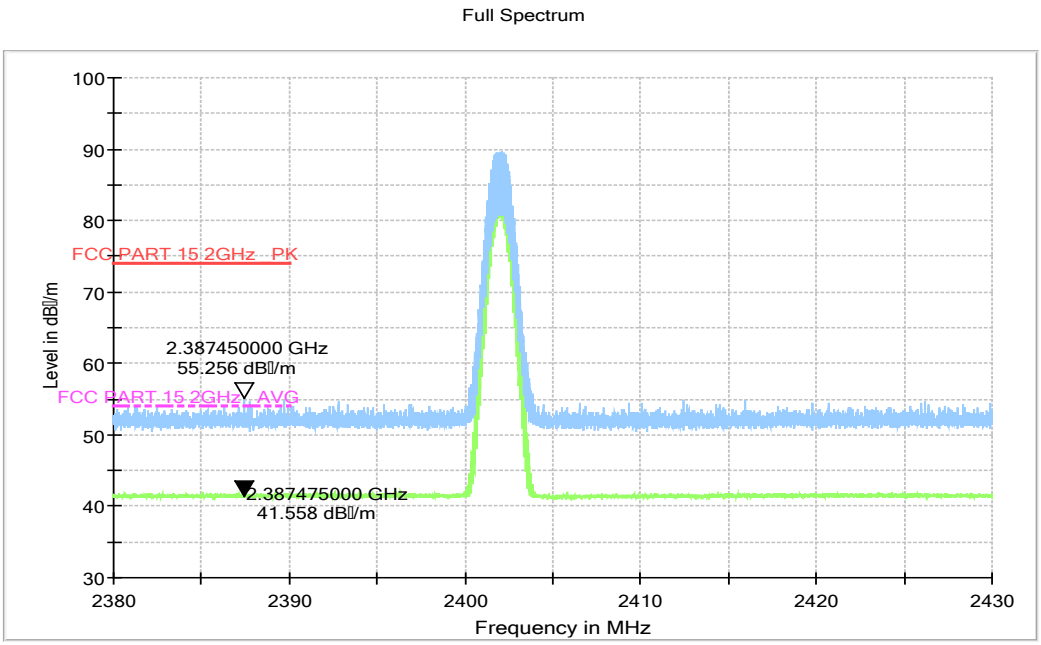

Fig.60. Radiated emission (Power): π/4 DQPSK, low channel

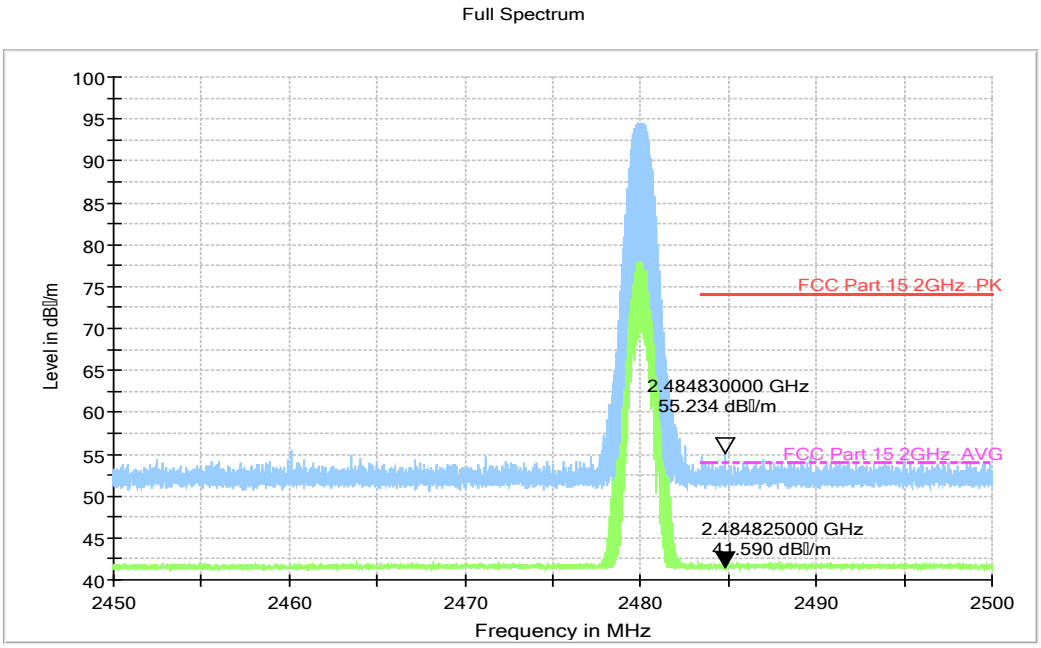

Fig.61. Radiated emission (Power): π/4 DQPSK, high channel

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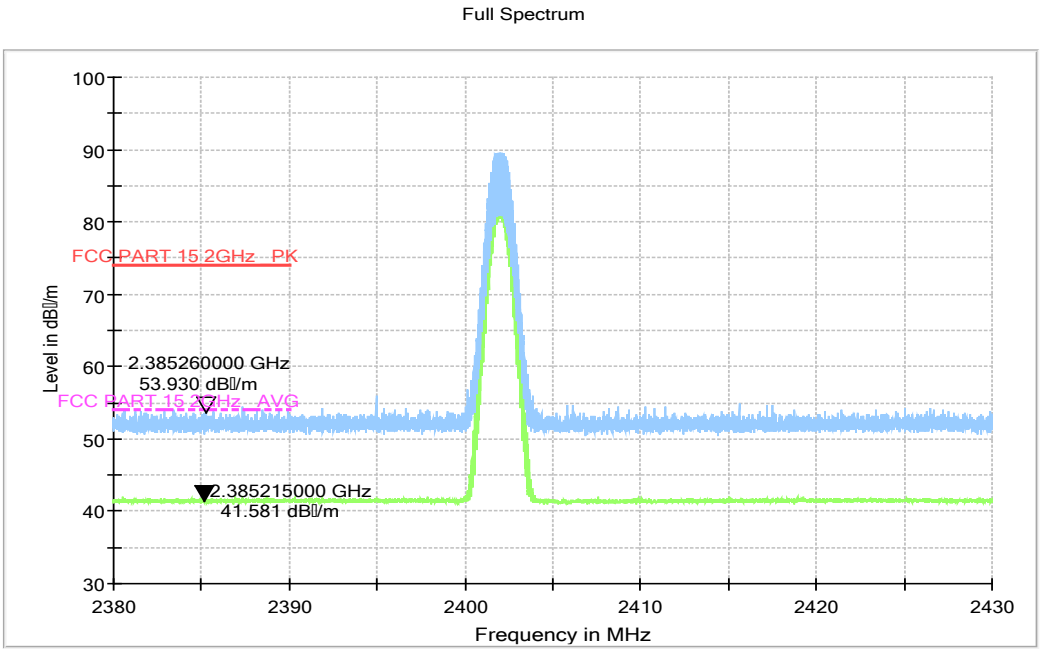

Fig.62. Radiated emission (Power): 8DPSK, low channel

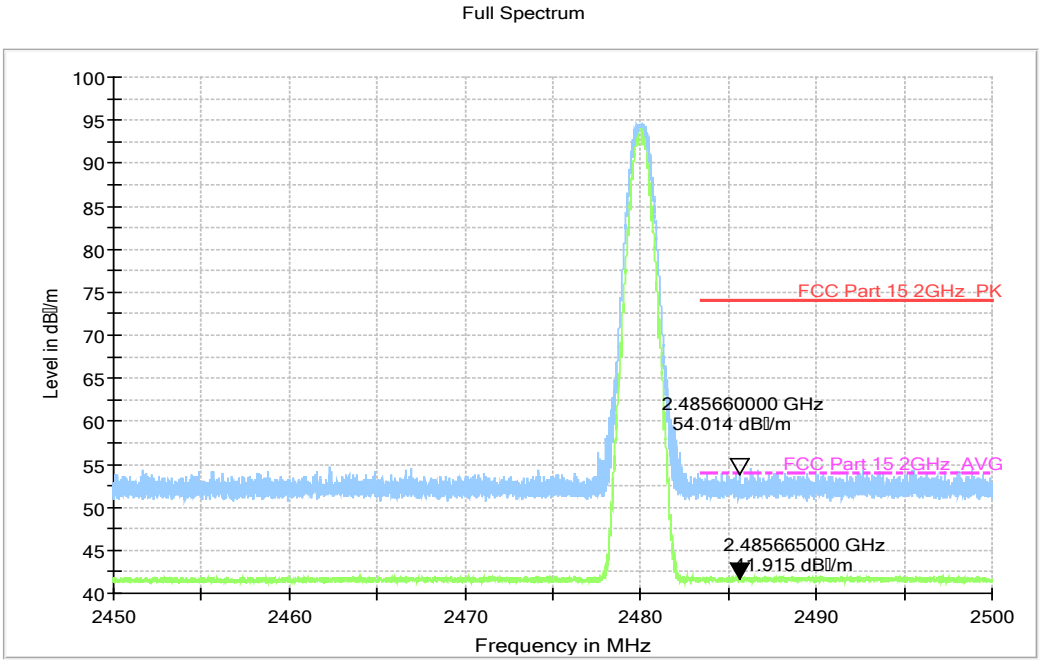

Fig.63. Radiated emission (Power): 8DPSK, high channel

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A.6. Time of Occupancy (Dwell Time)

Method of Measurement: See ANSI C63.10-clause 7.8.4

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

- Span = zero span, centered on a hopping channel
- RBW = 1 MHz
- VBW ≥ RBW
- Sweep = as necessary to capture the entire dwell time per hopping channel
- Detector function = peak
- Trace = max hold

Measure a pulse time in time domain at middle frequency and then count the hopping number in 31.6s(which equals with 0.4 multiply 79) of middle frequency ,then multiply the pulse time and hopping number and record them.

Measurement Limit:

Standard	Limit (ms)
FCC 47 CFR Part 15.247(a) (1)(iii)	< 400

Measurement Result:

For GFSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.64	121.59	P
		Fig.65		
	DH3	Fig.66	160.44	P
		Fig.67		
	DH5	Fig.68	210.61	P
		Fig.69		

For π/4 DQPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.70	124.15	P
		Fig.71		
	DH3	Fig.72	158.96	P
		Fig.73		
	DH5	Fig.74	173.20	P
		Fig.75		

For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.76	123.32	P
		Fig.77		
	DH3	Fig.78	149.04	P

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		Fig.79		
	DH5	Fig.80	187.78	P
		Fig.81		

Conclusion: PASS

Test graphs as below:

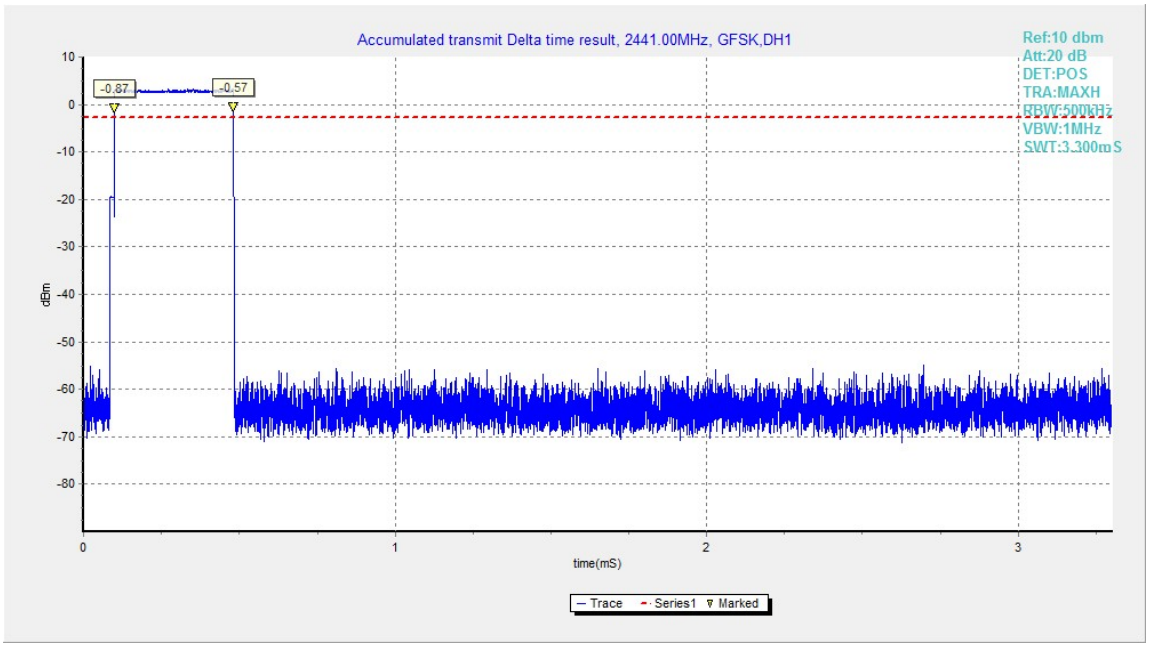

Fig.64. Time of occupancy (Dwell Time): Channel 39, Packet DH1

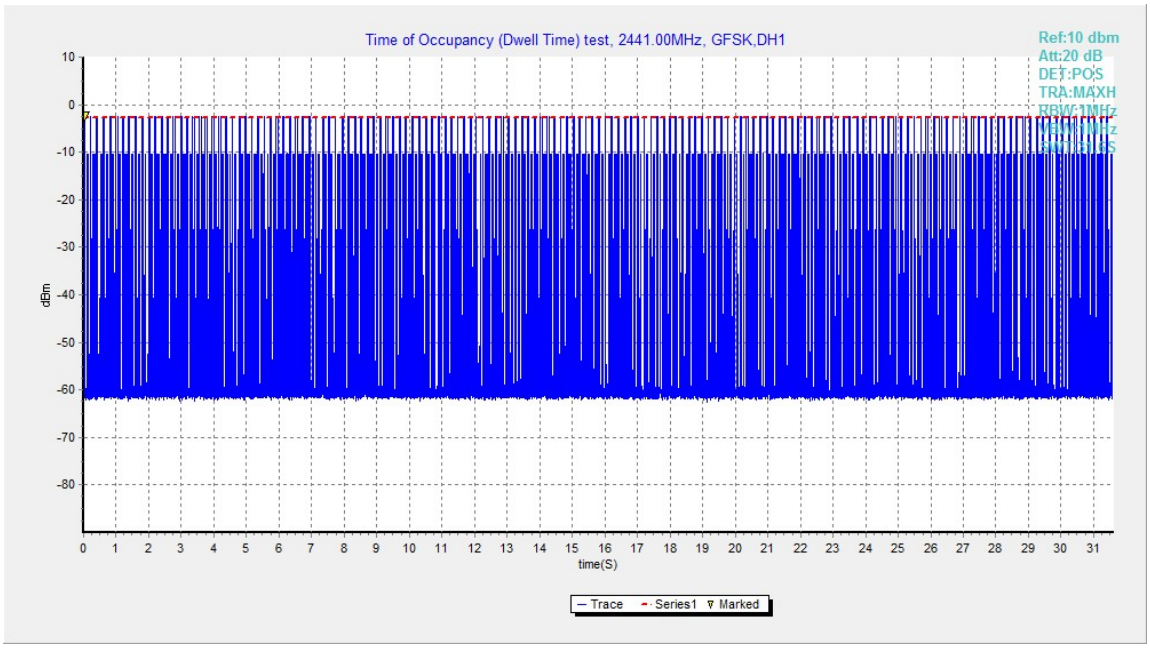

Fig.65. Number of Transmissions Measurement: Channel 39,Packet DH1

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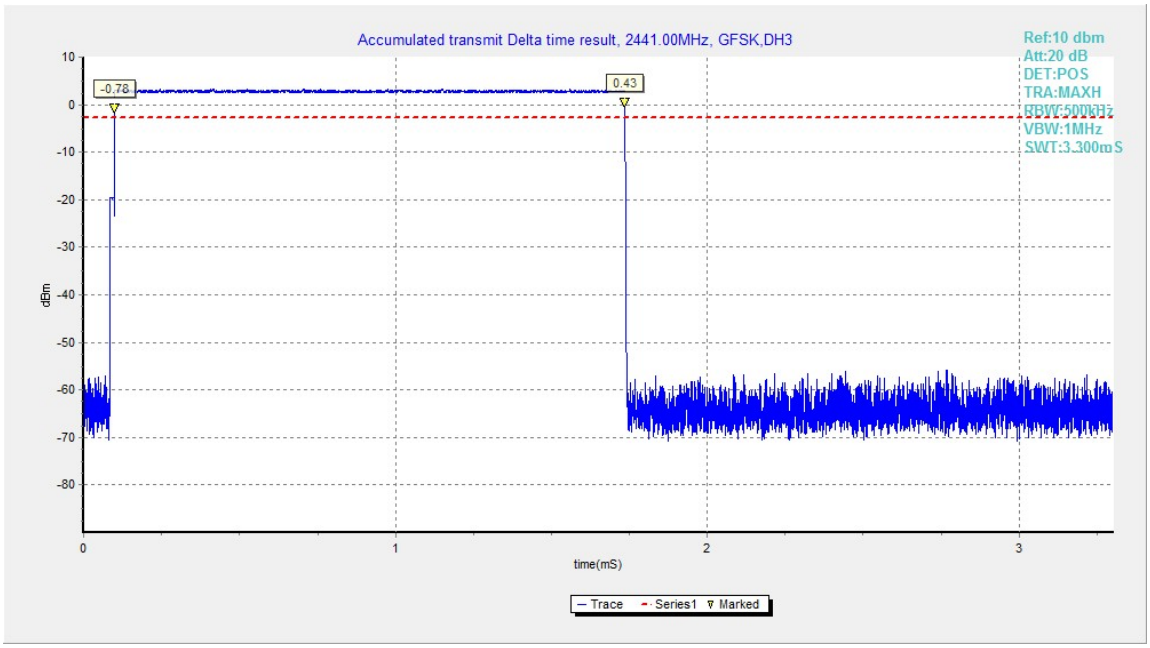

Fig.66. Time of occupancy (Dwell Time): Channel 39, Packet DH3

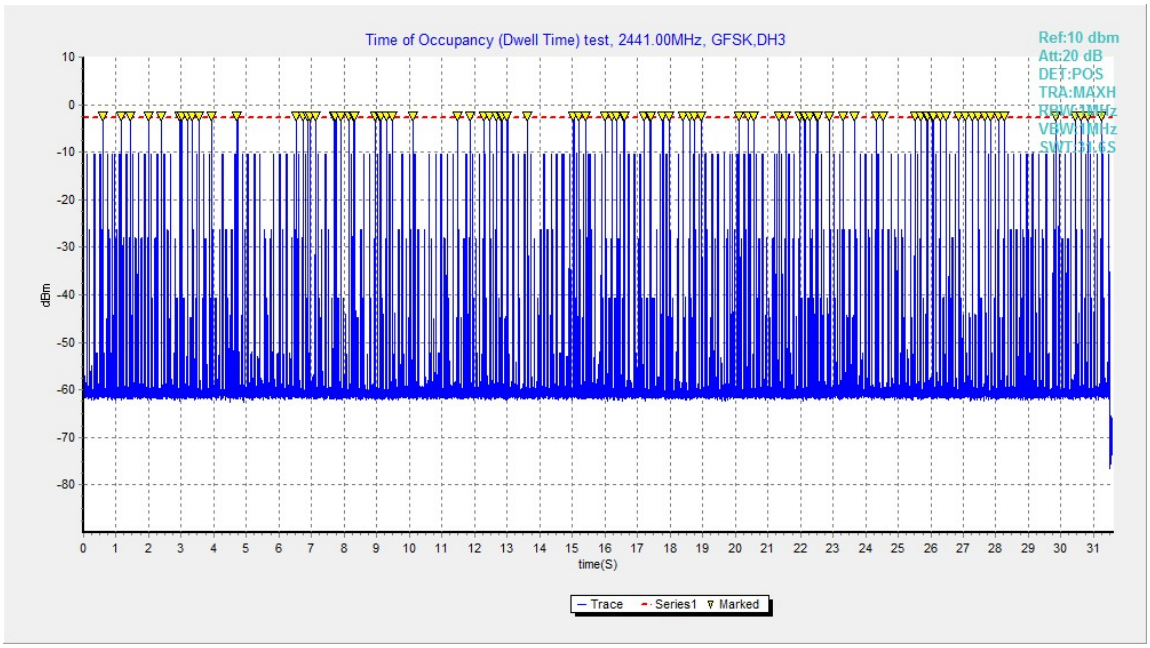

Fig.67. Number of Transmissions Measurement: Channel 39,Packet DH3

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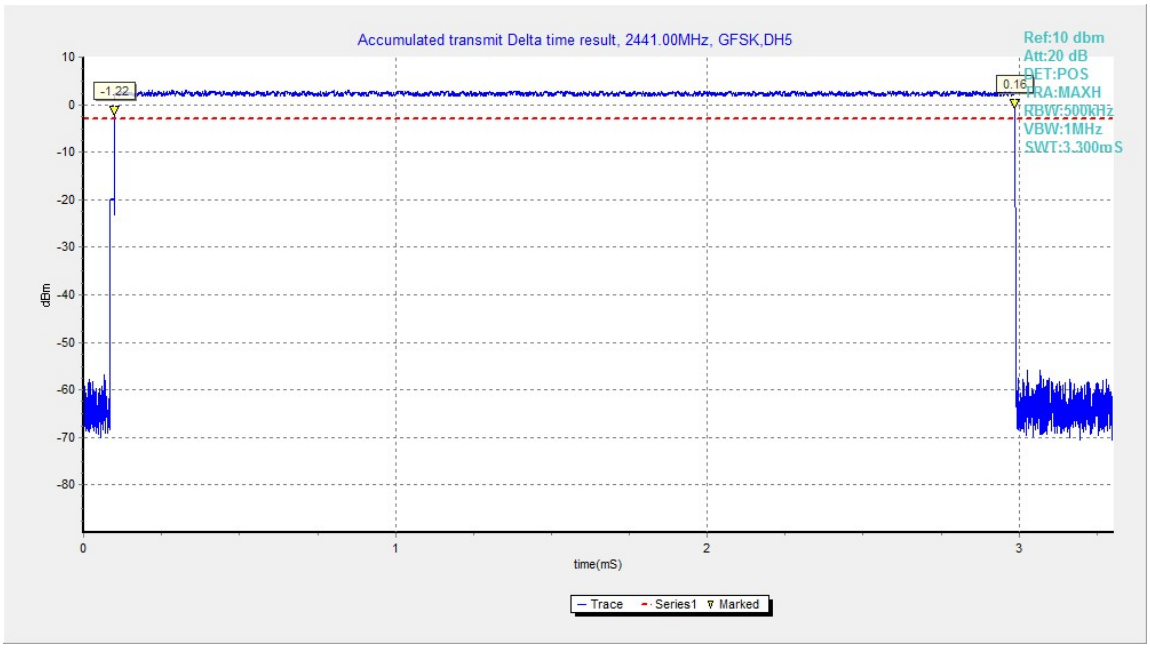

Fig.68. Time of occupancy (Dwell Time): Channel 39, Packet DH5

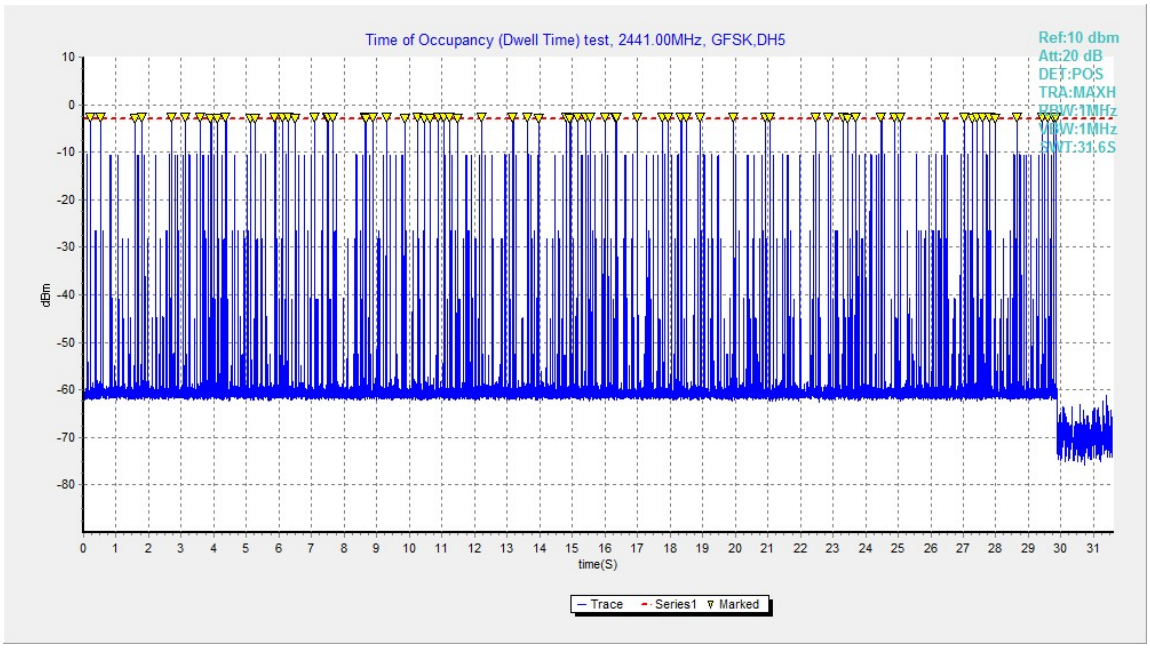

Fig.69. Number of Transmissions Measurement: Channel 39,Packet DH5

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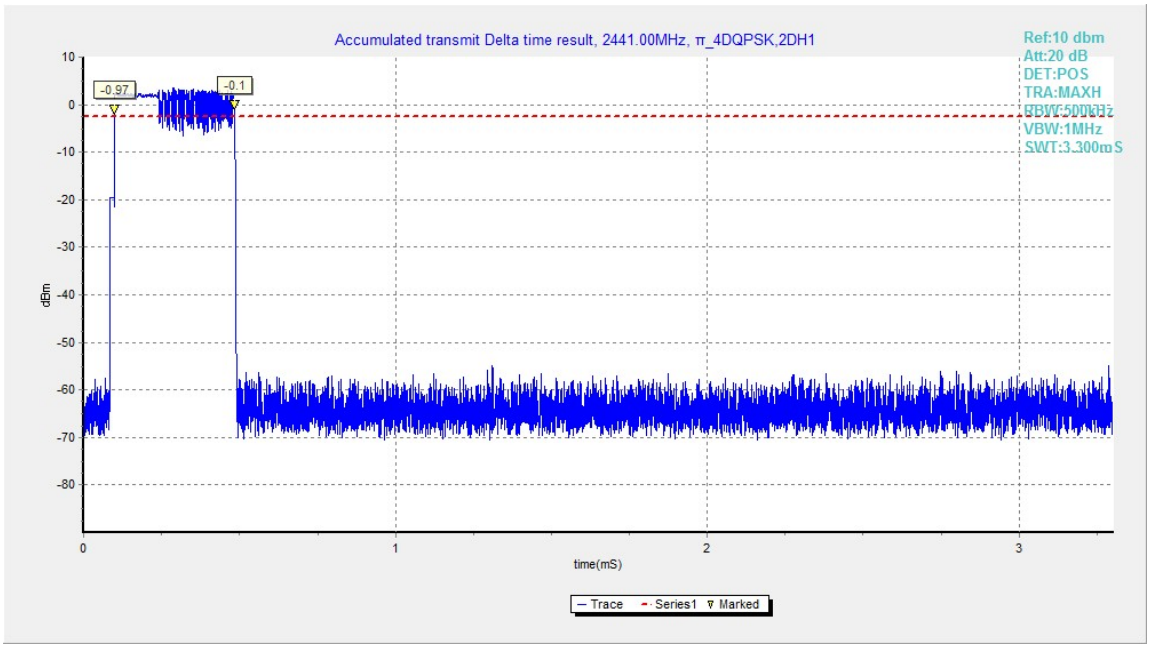

Fig.70. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1

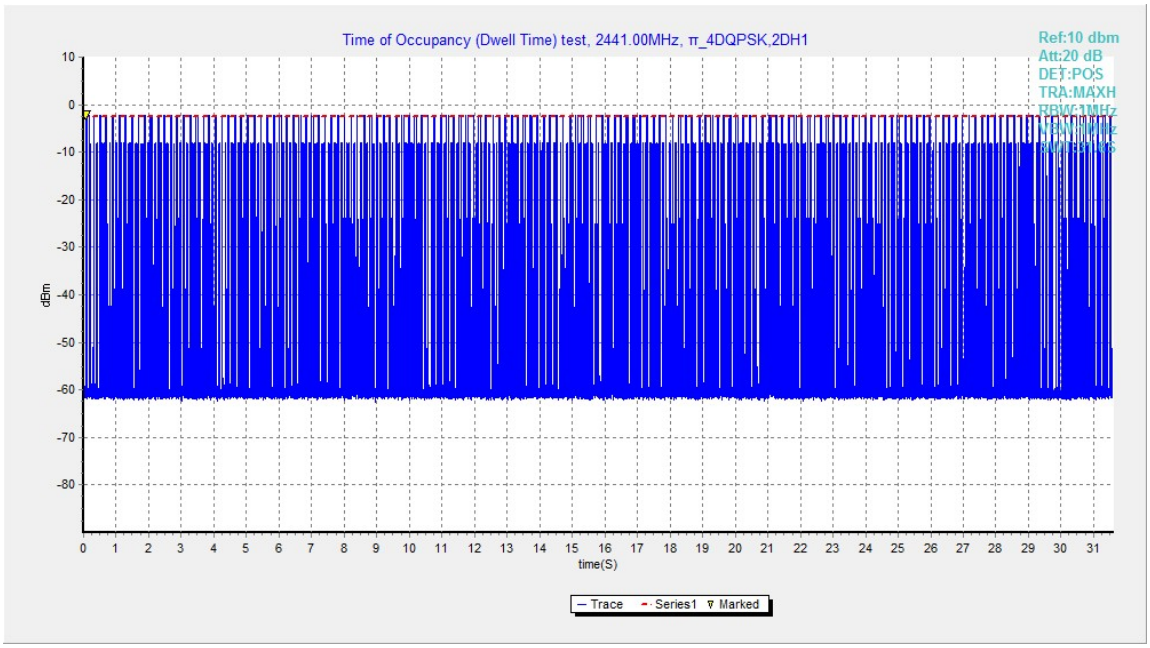

Fig.71. Number of Transmissions Measurement: Channel 39,Packet 2-DH1

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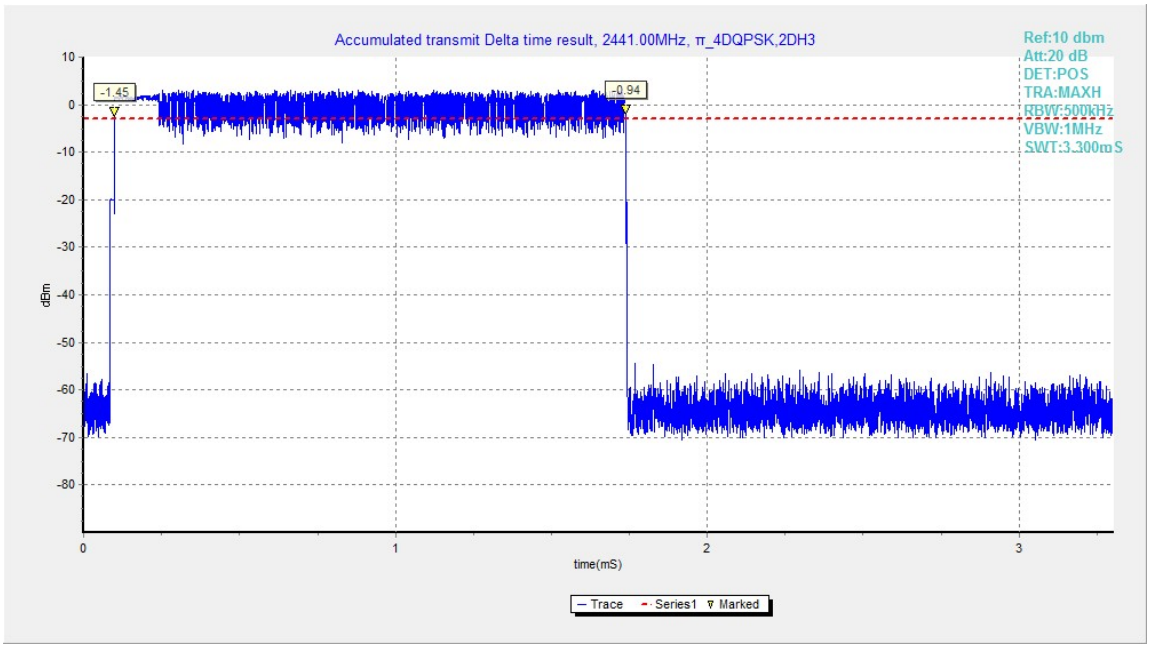

Fig.72. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3

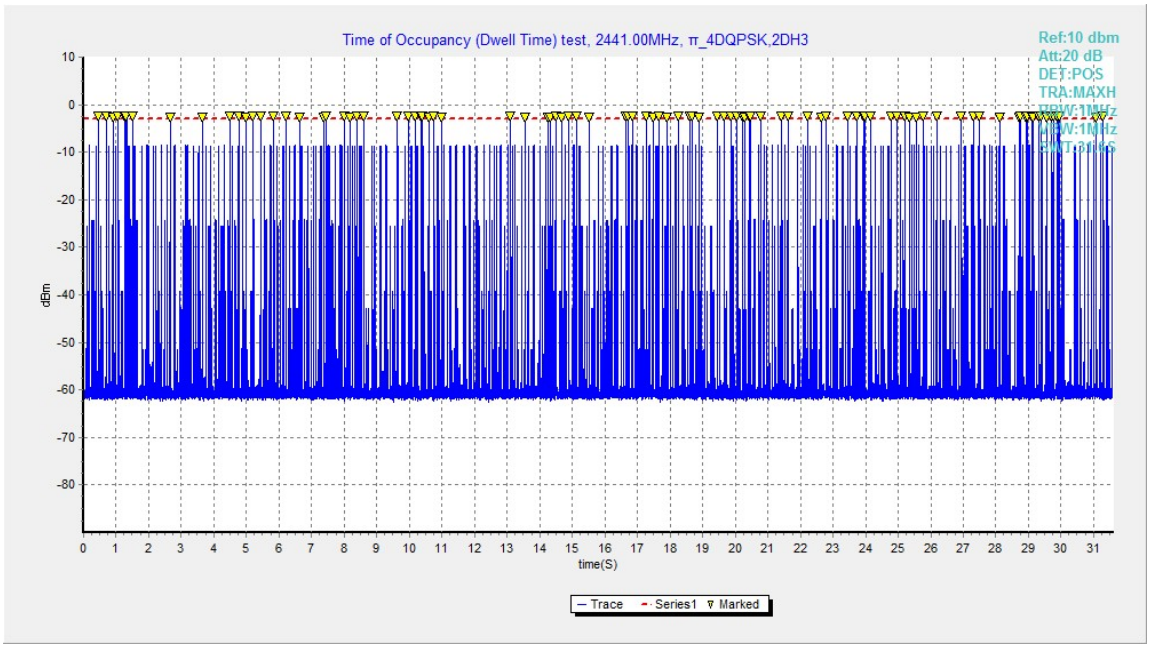

Fig.73. Number of Transmissions Measurement: Channel 39,Packet 2-DH3

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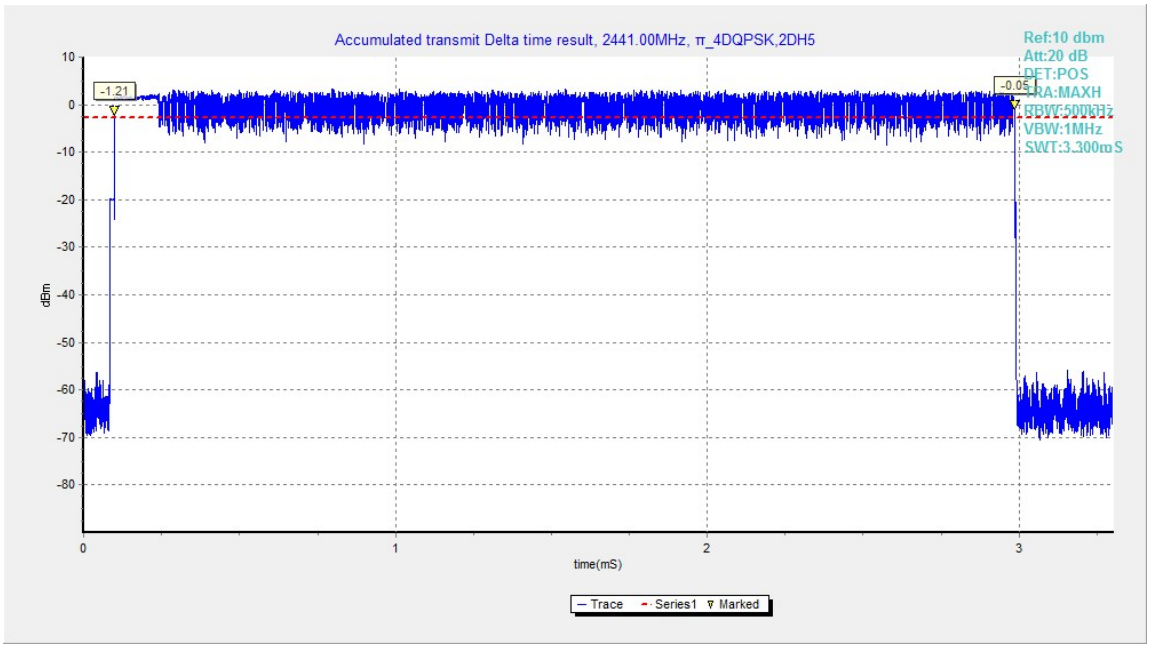

Fig.74. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5

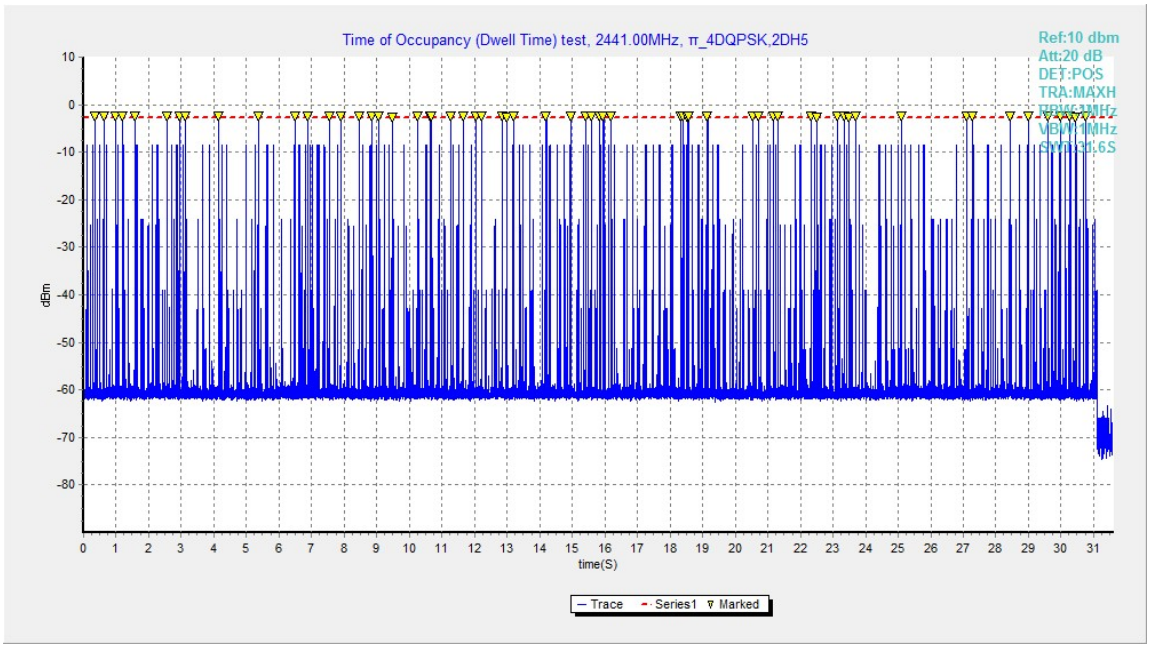

Fig.75. Number of Transmissions Measurement: Channel 39,Packet 2-DH5

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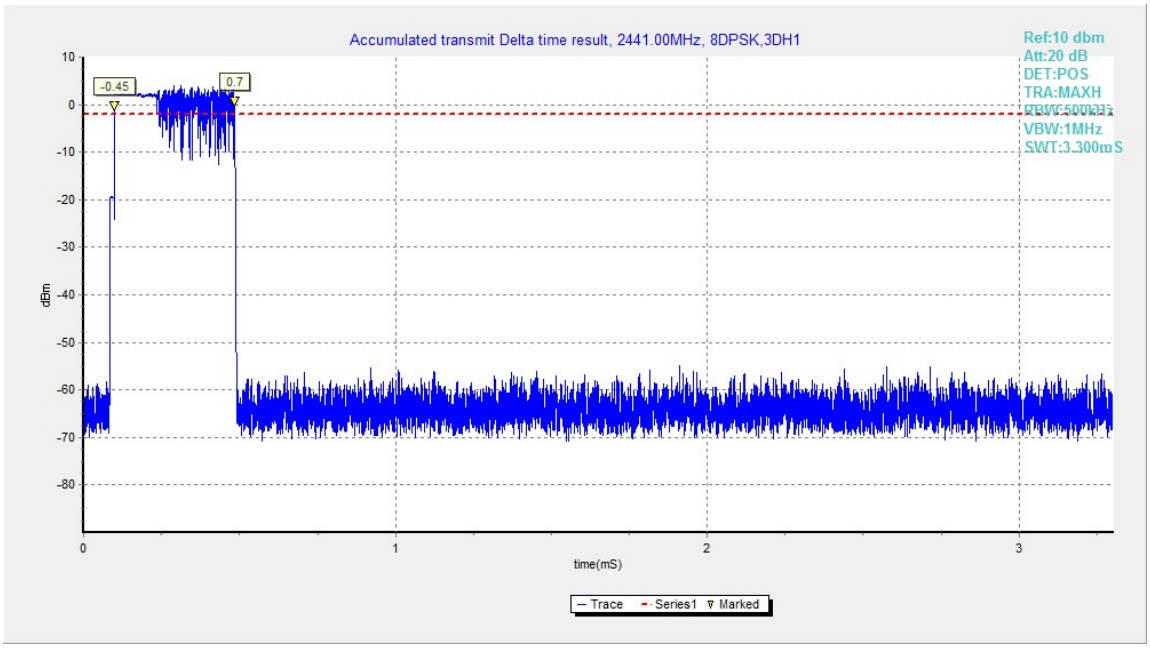

Fig.76. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1

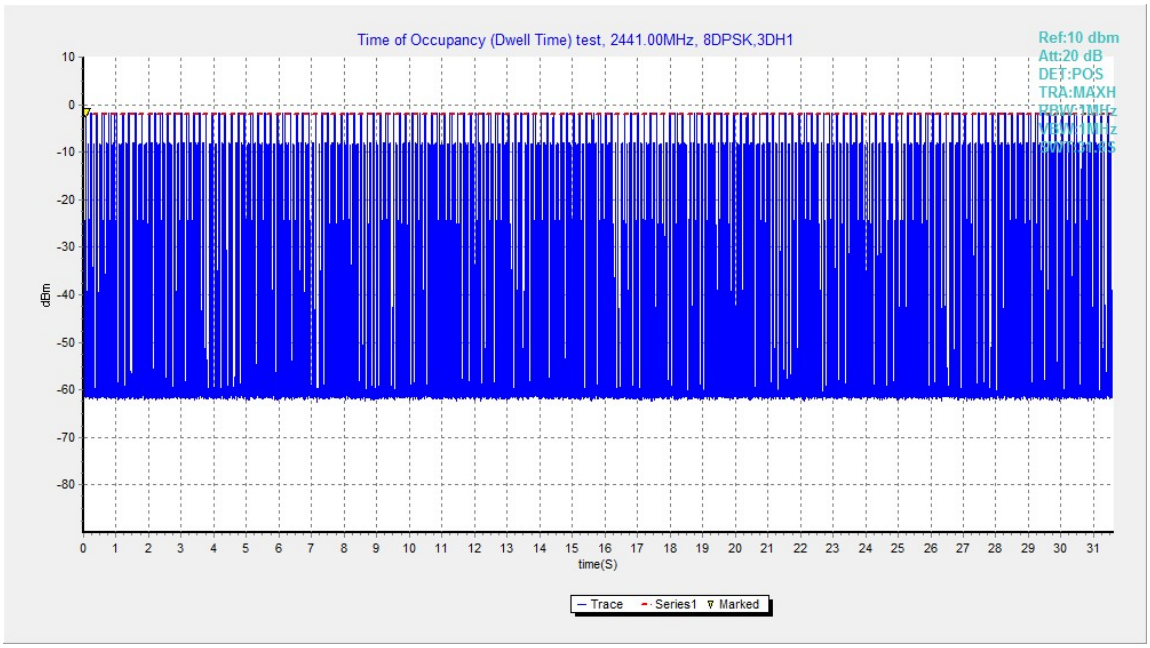

Fig.77. Number of Transmissions Measurement: Channel 39,Packet 3-DH1

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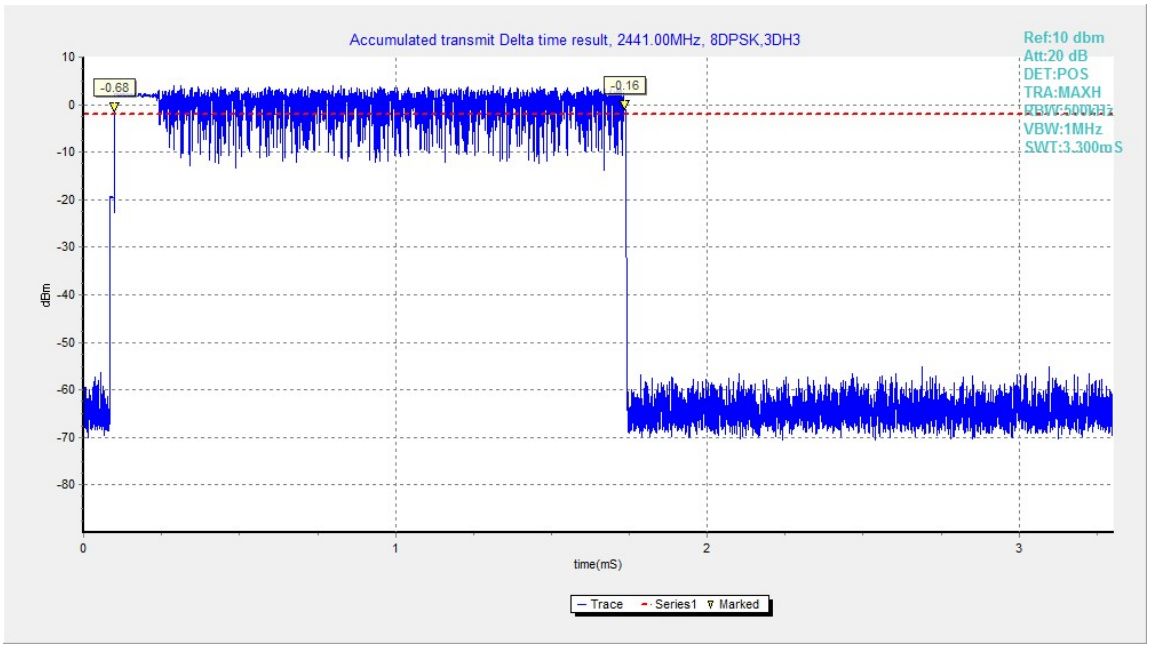

Fig.78. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3

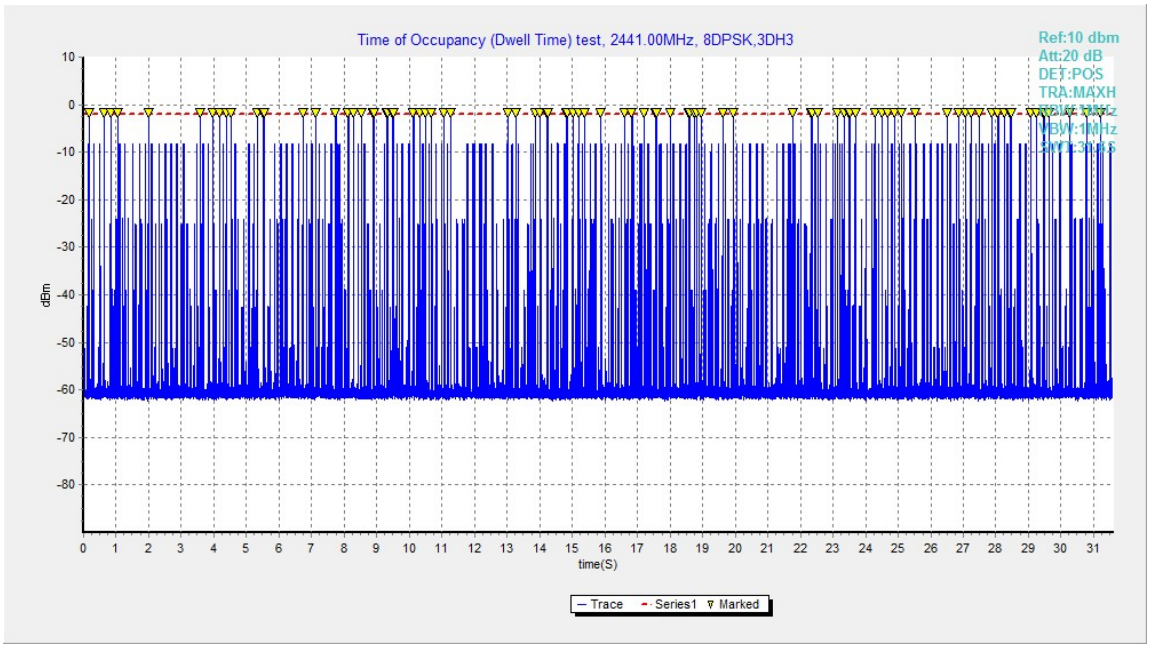

Fig.79. Number of Transmissions Measurement: Channel 39,Packet 3-DH3

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