

Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz – 26GHz

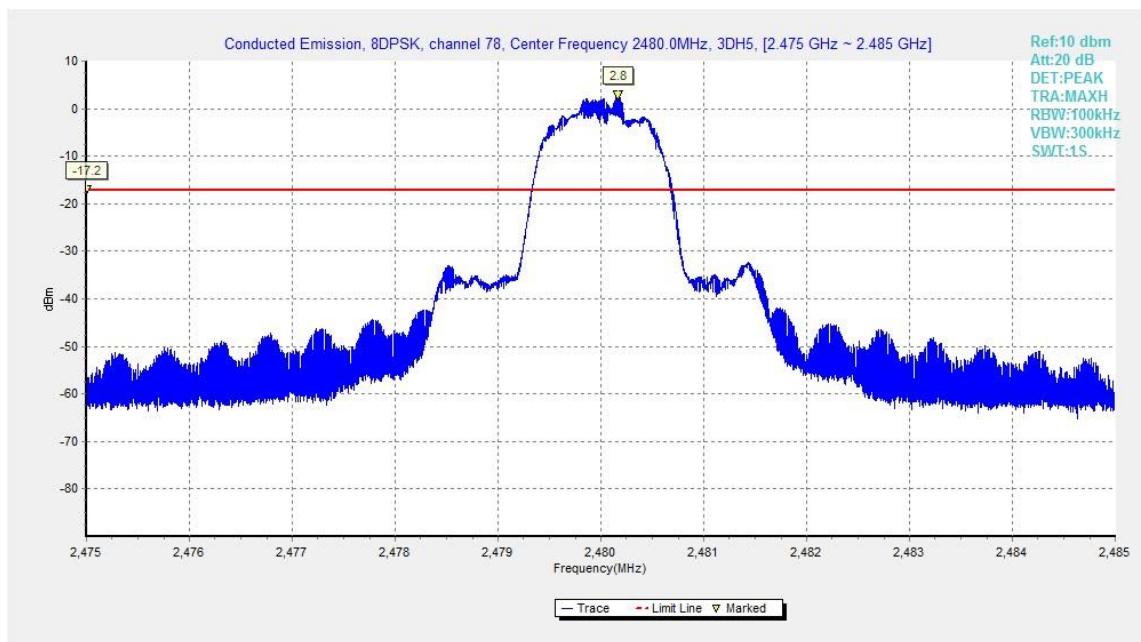


Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz

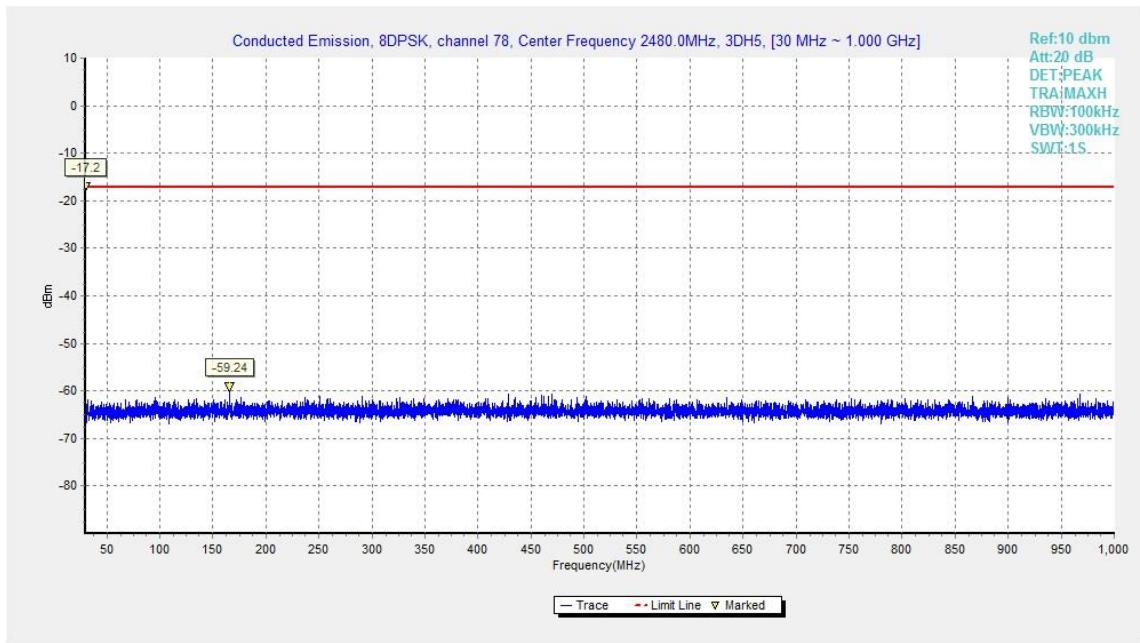


Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz

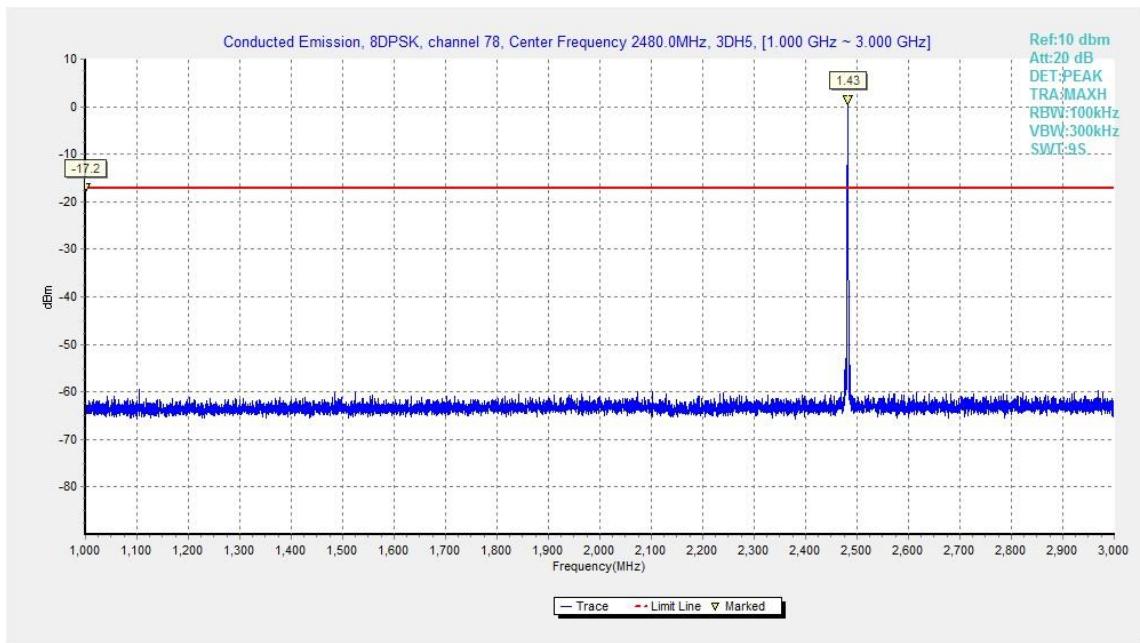


Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz

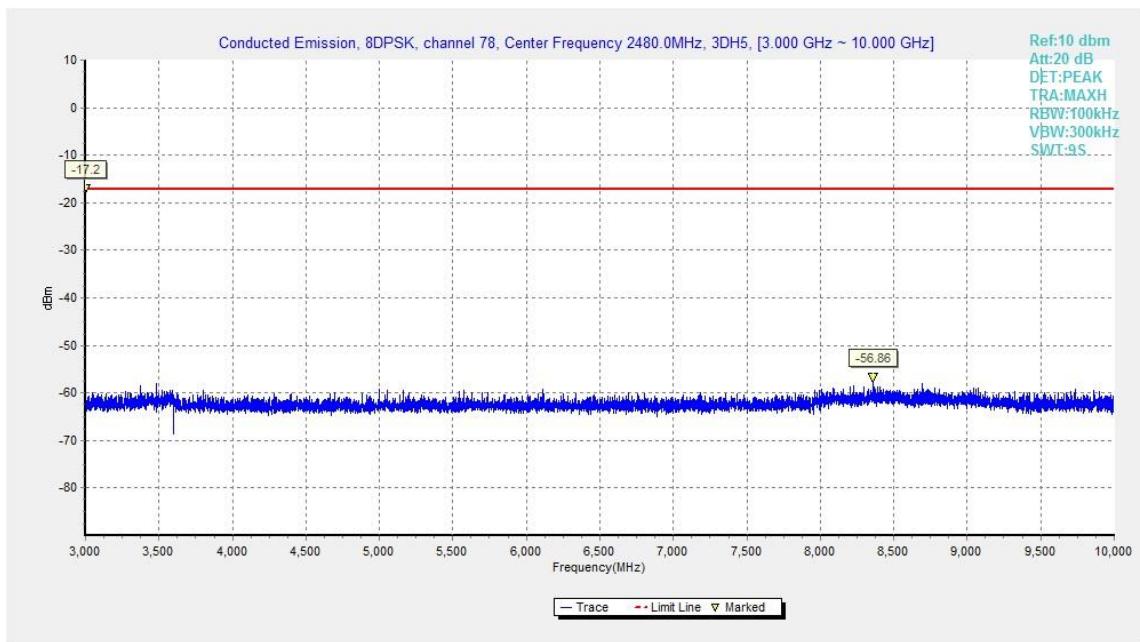


Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz

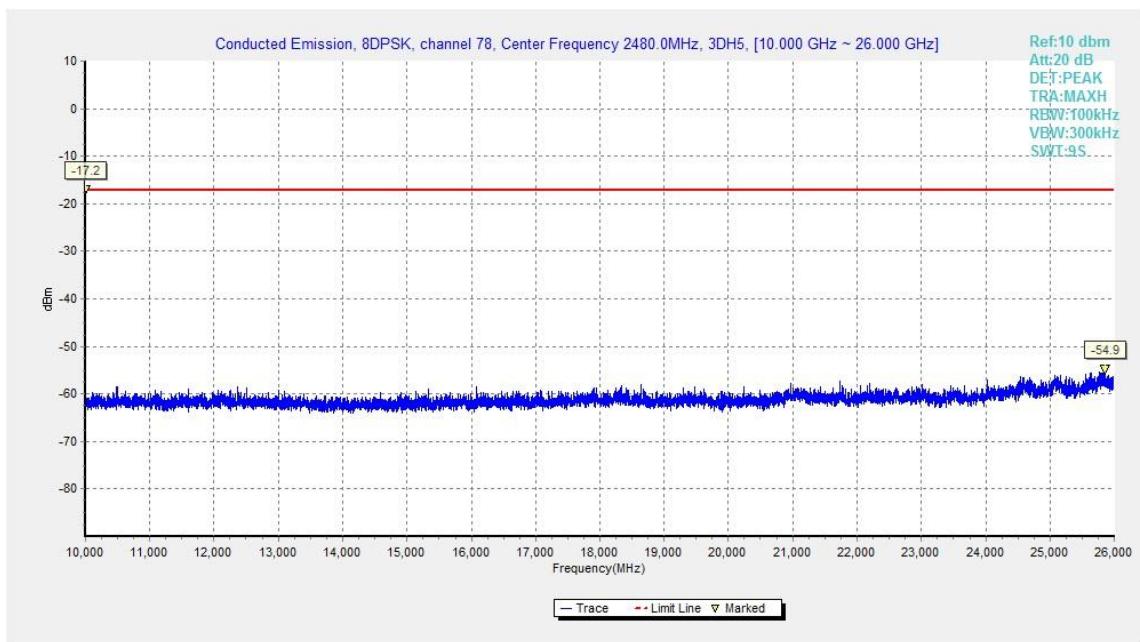


Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz

### A.5. Transmitter Spurious Emission - Radiated

#### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247, 15.205, 15.209	20dB below peak output power

In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a) (see § 15.205(c)).

The measurement is made according to ANSI C63.10

#### Limit in restricted band:

Frequency of emission (MHz)	Field strength(uV/m)	Field strength(dBuV/m)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

#### Test Condition

The EUT was placed on a non-conductive table. The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

Frequency of emission (MHz)	RBW/VBW	Sweep Time(s)
30-1000	100KHz/300KHz	5
1000-4000	1MHz/1MHz	15
4000-18000	1MHz/1MHz	40
18000-26500	1MHz/1MHz	20

#### Measurement Results:

$$\text{Result} = P_{\text{Mea}} + \text{ARPL}$$

#### For GFSK

Channel	Frequency Range	Test Results	Conclusion
Power	2.38GHz~2.4GHz---L	Fig.58	P
Power	2.45GHz~2.5GHz---H	Fig.59	P

#### For π/4 DQPSK

Channel	Frequency Range	Test Results	Conclusion
Power	2.38GHz~2.4GHz---L	Fig.60	P
Power	2.45GHz~2.5GHz---H	Fig.61	P

#### For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Power	2.38GHz~2.4GHz---L	Fig.62	P
Power	2.45GHz~2.5GHz---H	Fig.63	P

**GFSK Ch 0 - Average**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2389.635	42.3	-38.8	27.7	53.4	H
17920.500	44.8	-17.7	45.6	16.9	H
17914.000	44.8	-18.5	45.6	17.7	H
17908.500	44.6	-18.5	45.6	17.5	H
17902.000	44.5	-18.5	45.6	17.4	H
17903.000	44.5	-18.5	45.6	17.4	H

**GFSK Ch 39 - Average**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
17915.000	44.7	-17.7	45.6	16.8	H
17918.500	44.6	-17.7	45.6	16.7	H
17914.000	44.5	-18.5	45.6	17.4	H
17914.500	44.5	-17.7	45.6	16.6	H
17917.000	44.5	-17.7	45.6	16.6	H
17915.500	44.5	-17.7	45.6	16.6	H

**GFSK Ch 78 - Average**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2486.100	41.7	-38.9	27.7	52.9	H
17914.000	44.6	-18.5	45.6	17.5	H
17909.000	44.6	-18.5	45.6	17.5	H
17904.000	44.5	-18.5	45.6	17.4	H
17908.000	44.5	-18.5	45.6	17.4	H
17933.500	44.5	-17.7	45.6	16.6	H

 **$\pi/4$  DQPSK Ch 0 - Average**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2387.305	41.7	-38.8	27.7	52.8	H
17918.500	44.6	-17.7	45.6	16.7	H
17905.500	44.5	-18.5	45.6	17.4	H
17894.000	44.5	-18.5	45.6	17.4	H
17935.000	44.5	-17.7	45.6	16.6	H
17902.000	44.5	-18.5	45.6	17.4	H

 **$\pi/4$  DQPSK Ch 39 - Average**

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBµV)	Antenna Pol. (H/V)
17919.500	44.5	-17.7	45.6	16.6	H
17913.500	44.5	-18.5	45.6	17.4	H
17912.000	44.5	-18.5	45.6	17.4	H
17919.000	44.5	-17.7	45.6	16.6	H
17905.500	44.4	-18.5	45.6	17.3	H
17914.000	44.4	-18.5	45.6	17.3	H

#### π/4 DQPSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBµV)	Antenna Pol. (H/V)
2484.905	41.8	-38.9	27.7	53.0	H
17911.500	44.8	-18.5	45.6	17.7	H
17925.000	44.7	-17.7	45.6	16.8	H
17912.500	44.6	-18.5	45.6	17.5	H
17913.500	44.5	-18.5	45.6	17.4	H
17924.500	44.5	-17.7	45.6	16.6	H

#### 8DPSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBµV)	Antenna Pol. (H/V)
2389.595	41.6	-38.8	27.7	52.7	H
17864.000	43.3	-18.5	45.6	16.2	H
17947.000	44.2	-17.7	45.6	16.3	H
17875.000	43.4	-18.5	45.6	16.3	H
17930.000	44.0	-17.7	45.6	16.1	H
17944.000	44.0	-17.7	45.6	16.1	H

#### 8DPSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBµV)	Antenna Pol. (H/V)
17923.000	44.6	-17.7	45.6	16.7	H
17926.000	44.6	-17.7	45.6	16.7	H
17916.000	44.6	-17.7	45.6	16.7	H
17915.000	44.5	-17.7	45.6	16.6	H
17913.000	44.5	-18.5	45.6	17.4	H
17939.500	44.4	-17.7	45.6	16.5	H

**8DPSK Ch 78 - Average**

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBμV)	Antenna Pol. (H/V)
2485.525	41.8	-38.9	27.7	53.0	H
17899.000	44.8	-18.5	45.6	17.7	H
17910.000	44.6	-18.5	45.6	17.5	V
17947.500	44.6	-17.7	45.6	16.7	H
17915.000	44.5	-17.7	45.6	16.6	H
17916.000	44.5	-17.7	45.6	16.6	H

**GFSK Ch 0 – Peak**

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBμV)	Antenna Pol. (H/V)
2388.195	54.5	-38.8	27.7	65.6	H
17903.500	56.3	-18.5	45.6	29.2	H
17846.000	56.0	-18.5	45.6	28.9	H
17909.500	56.0	-18.5	45.6	28.9	H
17801.000	55.8	-18.5	45.6	28.7	H
17914.000	55.8	-18.5	45.6	28.7	H

**GFSK Ch 39 - Peak**

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBμV)	Antenna Pol. (H/V)
17914.000	56.0	-18.5	45.6	28.9	H
17940.500	55.8	-17.7	45.6	27.9	H
17847.500	55.7	-18.5	45.6	28.6	H
17998.500	55.6	-17.7	45.6	27.7	H
17910.500	55.5	-18.5	45.6	28.4	H
17997.500	55.5	-17.7	45.6	27.6	H

**GFSK Ch 78 - Peak**

Frequency (MHz)	Measurement Result (dBμV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dBμV)	Antenna Pol. (H/V)
2492.650	55.1	-38.9	27.7	66.3	H
17899.500	56.7	-18.5	45.6	29.6	H
17925.000	55.7	-17.7	45.6	27.8	H
17931.500	55.7	-17.7	45.6	27.8	H
17927.000	55.6	-17.7	45.6	27.7	H
17914.500	55.6	-17.7	45.6	27.7	H

**$\pi/4$  DQPSK Ch 0 - Peak**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2386.865	55.3	-38.8	27.7	66.4	H
17870.000	57.2	-18.5	45.6	30.1	H
17922.000	56.5	-17.7	45.6	28.6	H
17918.500	56.5	-17.7	45.6	28.6	H
17893.500	55.8	-18.5	45.6	28.7	H
17929.000	55.8	-17.7	45.6	27.9	H

 **$\pi/4$  DQPSK Ch 39 - Peak**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
17896.000	56.3	-18.5	45.6	29.2	H
17918.000	56.2	-17.7	45.6	28.3	H
17984.500	56.1	-17.7	45.6	28.2	H
17948.000	56.0	-17.7	45.6	28.1	H
17831.000	55.9	-18.5	45.6	28.8	H
17771.500	55.6	-18.5	45.6	28.5	H

 **$\pi/4$  DQPSK Ch 78 - Peak**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2492.140	54.3	-38.9	27.7	65.5	H
17832.000	56.7	-18.5	45.6	29.6	H
17912.000	56.2	-18.5	45.6	29.1	V
17931.000	56.0	-17.7	45.6	28.1	H
17973.500	55.9	-17.7	45.6	28.0	H
17987.000	55.9	-17.7	45.6	28.0	H

**8DPSK Ch 0 - Peak**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2389.595	54.3	-38.8	27.7	65.4	H
17864.000	55.9	-18.5	45.6	28.8	H
17947.000	55.8	-17.7	45.6	27.9	H
17875.000	55.6	-18.5	45.6	28.5	H
17930.000	55.6	-17.7	45.6	27.7	H

17944.000	55.6	-17.7	45.6	27.7	H
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**8DPSK Ch 39 - Peak**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
17912.500	56.3	-18.5	45.6	29.2	H
17831.000	56.2	-18.5	45.6	29.1	H
17903.500	56.1	-18.5	45.6	29.0	H
17914.500	56.1	-17.7	45.6	28.2	H
17814.000	56.0	-18.5	45.6	28.9	H
17934.000	56.0	-17.7	45.6	28.1	H

**8DPSK Ch 78 - Peak**

Frequency (MHz)	Measurement Result (dB $\mu$ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver reading (dB $\mu$ V)	Antenna Pol. (H/V)
2489.250	54.9	-38.9	27.7	66.1	H
17953.000	56.9	-17.7	45.6	29.0	H
17913.500	56.8	-18.5	45.6	29.7	V
17908.000	56.3	-18.5	45.6	29.2	H
17930.000	56.1	-17.7	45.6	28.2	H
17924.000	55.8	-17.7	45.6	27.9	H

**Conclusion: PASS**
**Test graphs as below:**

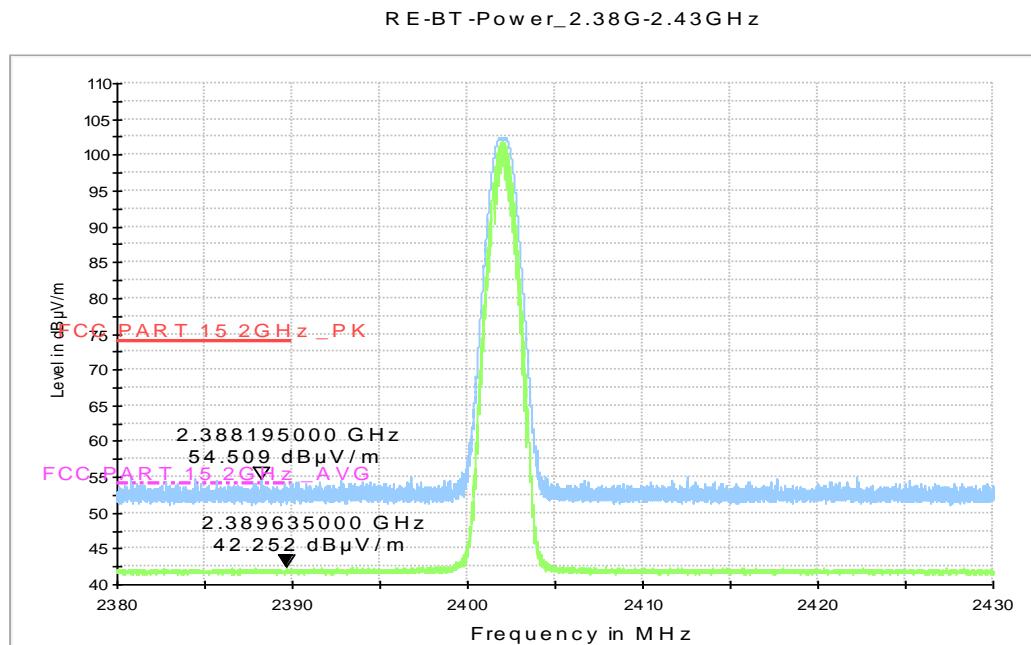


Fig.58. Radiated emission (Power): GFSK, low channel

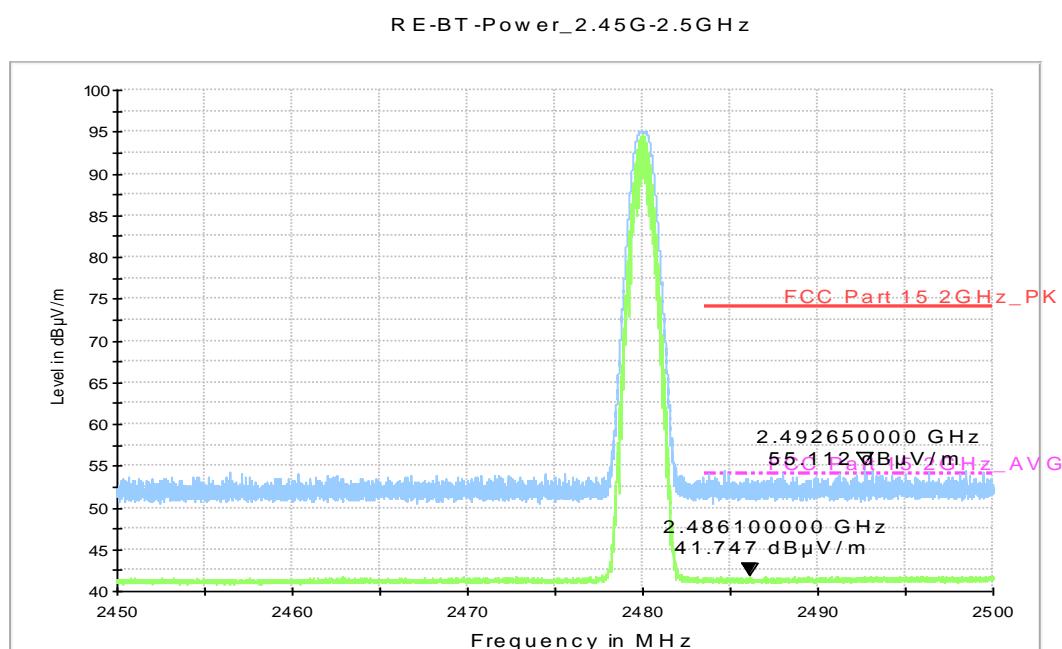


Fig.59. Radiated emission (Power) GFSK, high channel

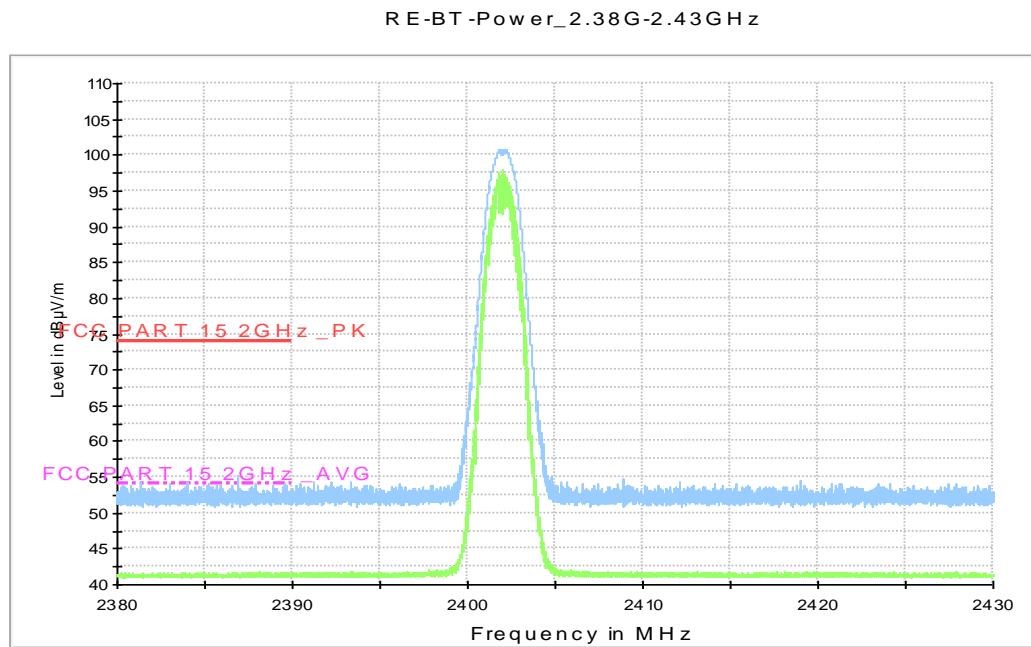


Fig.60. Radiated emission (Power):  $\pi/4$  DQPSK, low channel

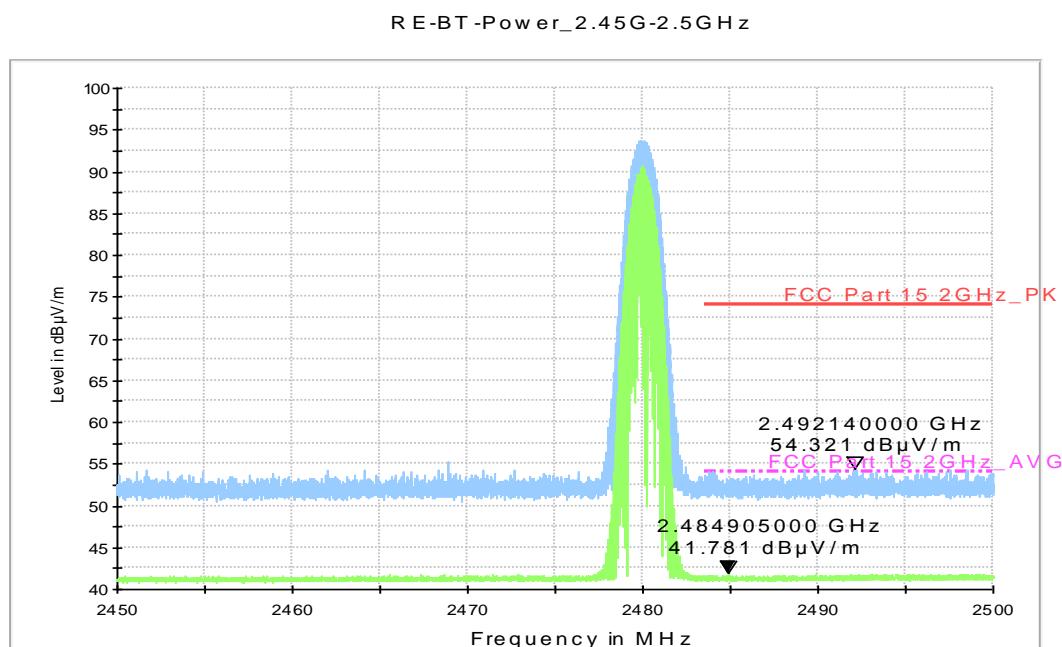


Fig.61. Radiated emission (Power):  $\pi/4$  DQPSK, high channel

R E-BT -Power\_2.38G-2.43GHz

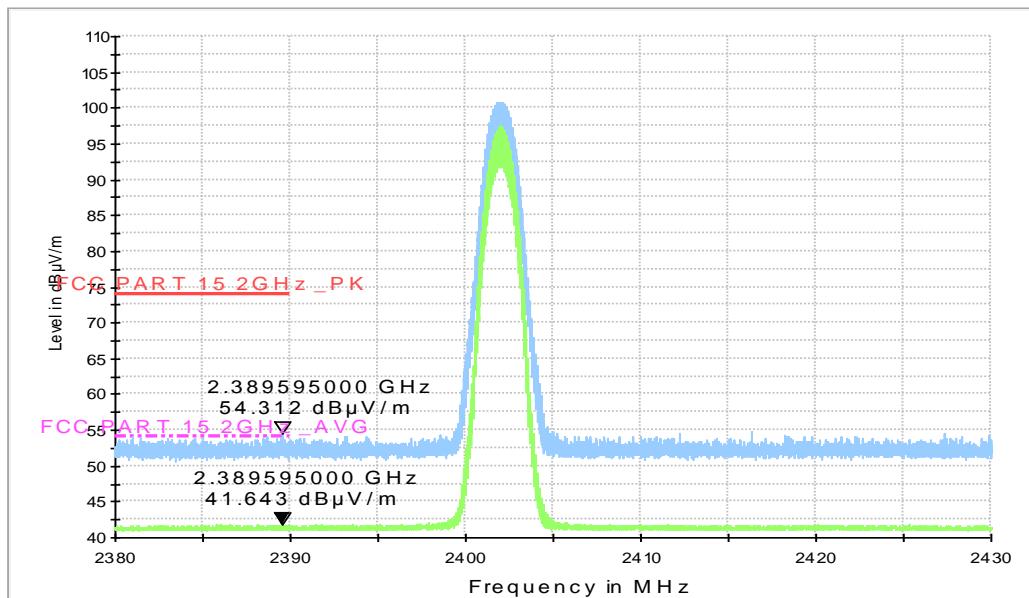


Fig.62. Radiated emission (Power): 8DPSK, low channel

R E-BT -Power\_2.45G-2.5GHz

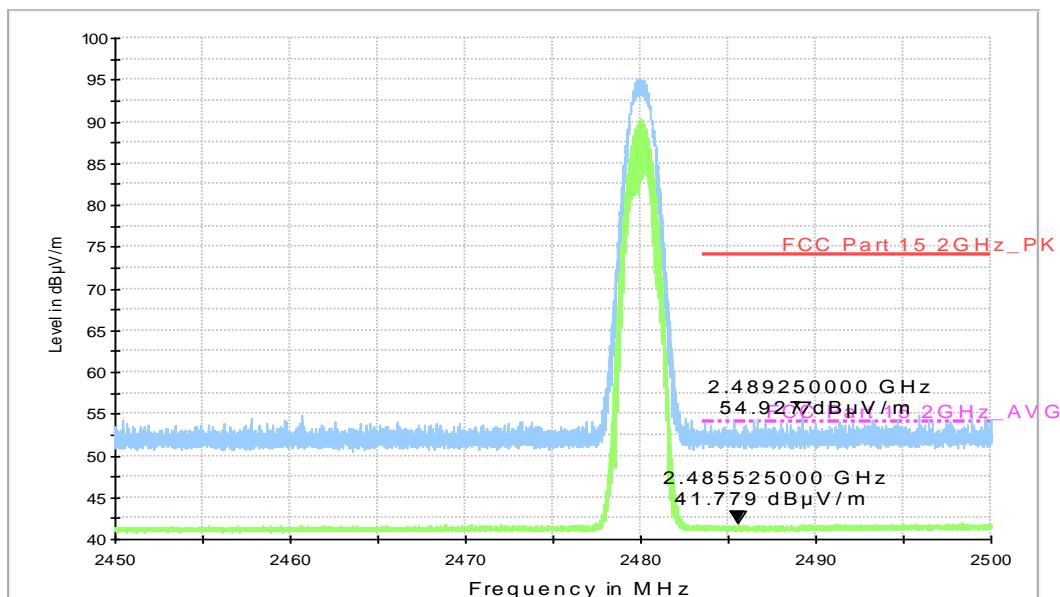


Fig.63. Radiated emission (Power): 8DPSK, high channel

## 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  $\geq$  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	118.06	P	
		Fig.65			
	DH3	Fig.66	161.01		
		Fig.67			
	DH5	Fig.68	198.33		
		Fig.69			

##### For $\pi/4$ DQPSK

Channel	Packet	Dwell Time (ms)		Conclusion	
39	DH1	Fig.70	119.95	P	
		Fig.71			
	DH3	Fig.72	158.05		
		Fig.73			
	DH5	Fig.74	166.89		
		Fig.75			

##### For 8DPSK

Channel	Packet	Dwell Time (ms)		Conclusion
39	DH1	Fig.76	120.37	P
		Fig.77		
	DH3	Fig.78	172.63	

		Fig.79		
	DH5	Fig.80	155.51	P
		Fig.81		

**Conclusion: PASS**

**Test graphs as below:**

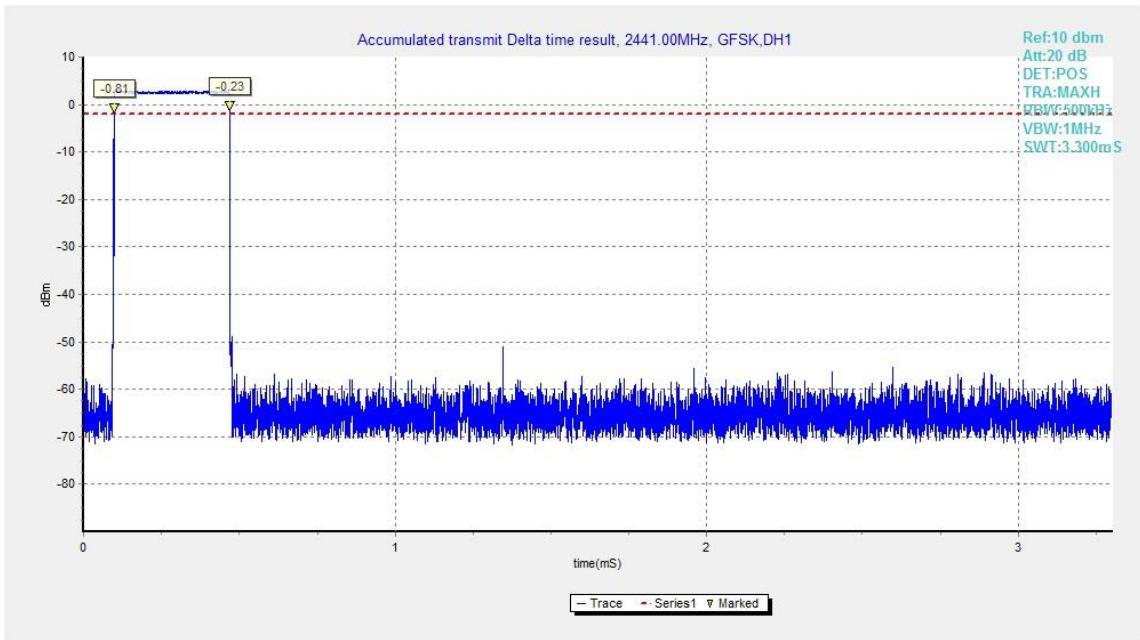


Fig.64. Time of occupancy (Dwell Time): Channel 39, Packet DH1

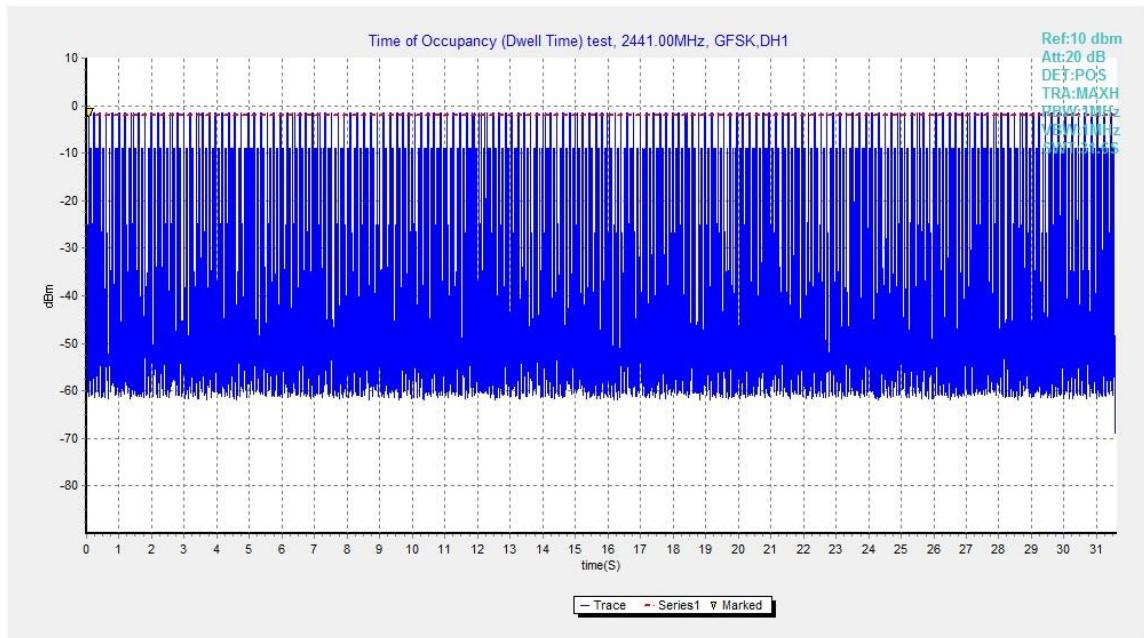


Fig.65. Number of Transmissions Measurement: Channel 39,Packet DH1

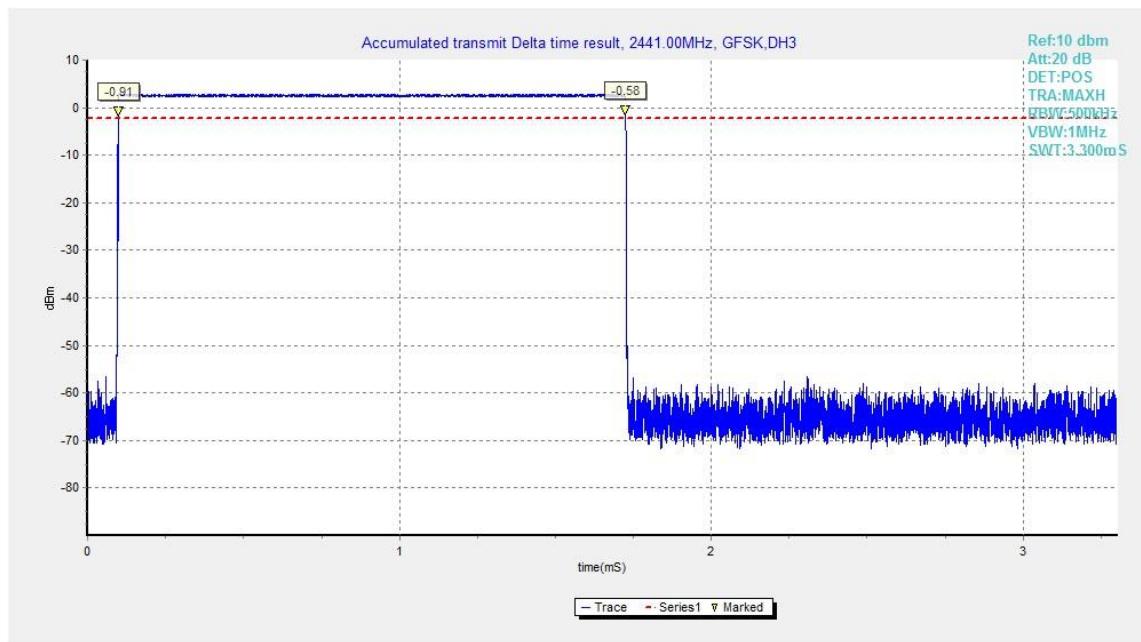


Fig.66. Time of occupancy (Dwell Time): Channel 39, Packet DH3

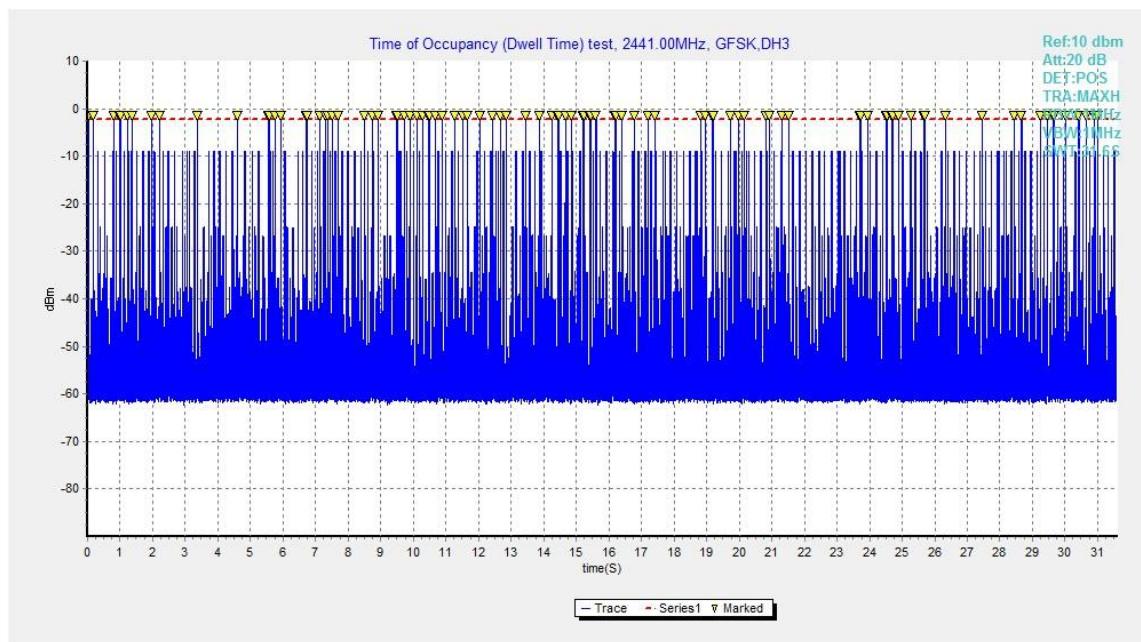


Fig.67. Number of Transmissions Measurement: Channel 39,Packet DH3



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

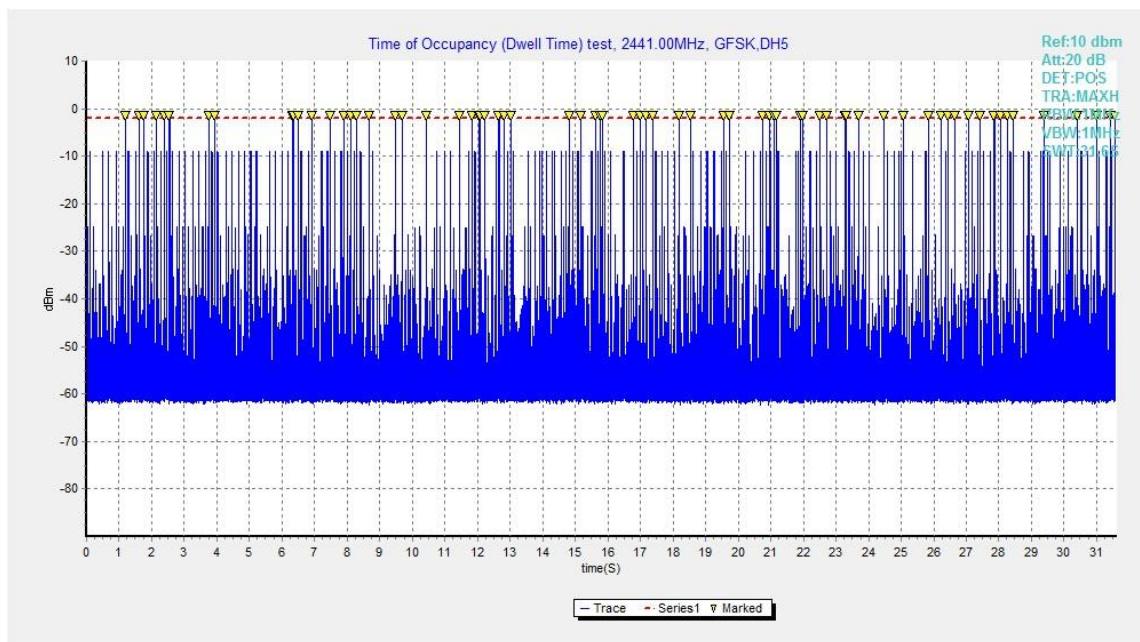


Fig.69. Number of Transmissions Measurement: Channel 39,Packet DH5

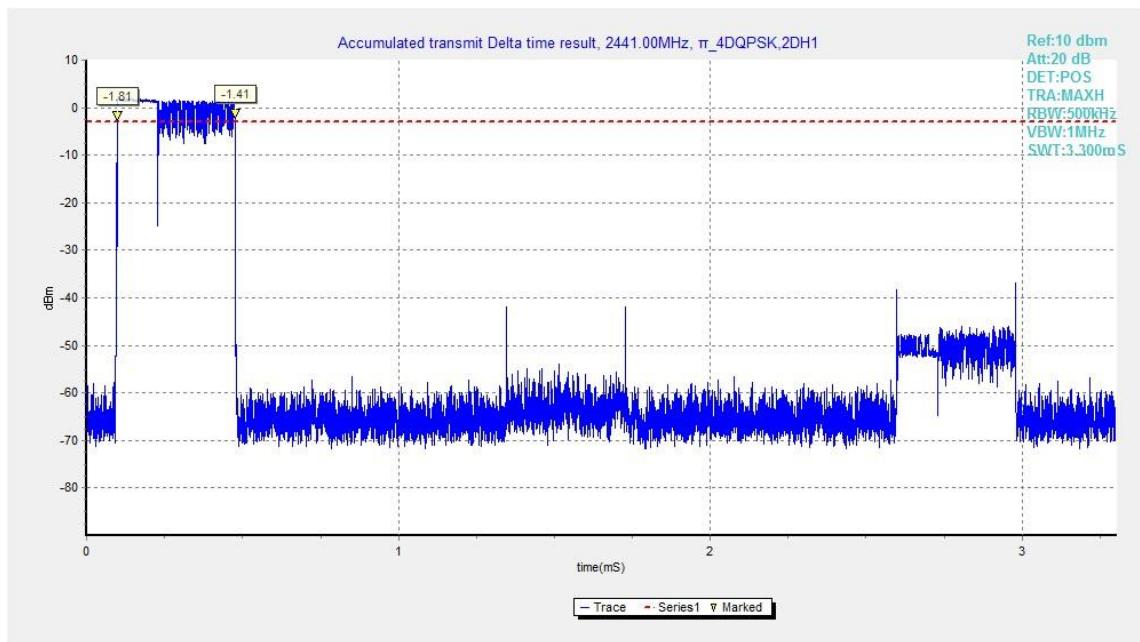


Fig.70. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1

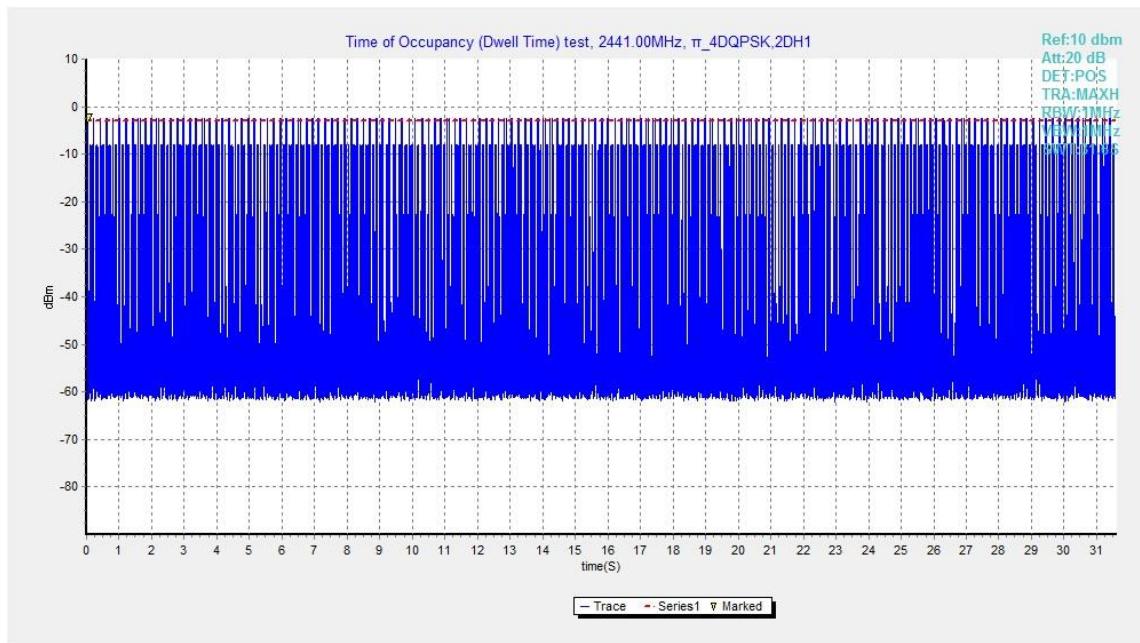


Fig.71. Number of Transmissions Measurement: Channel 39,Packet 2-DH1

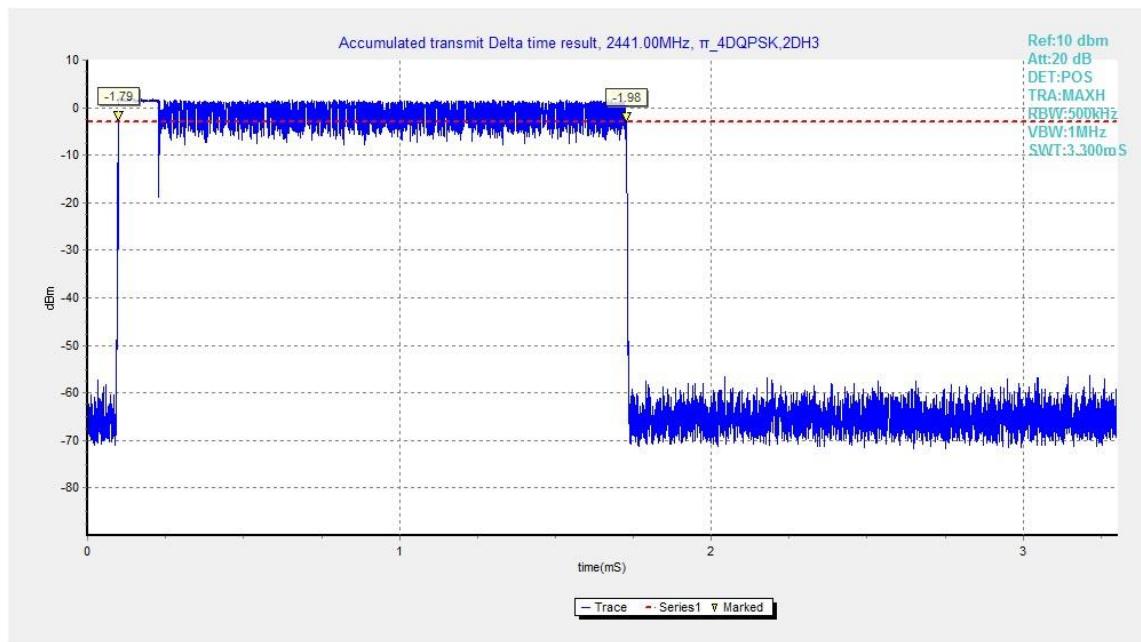


Fig.72. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3

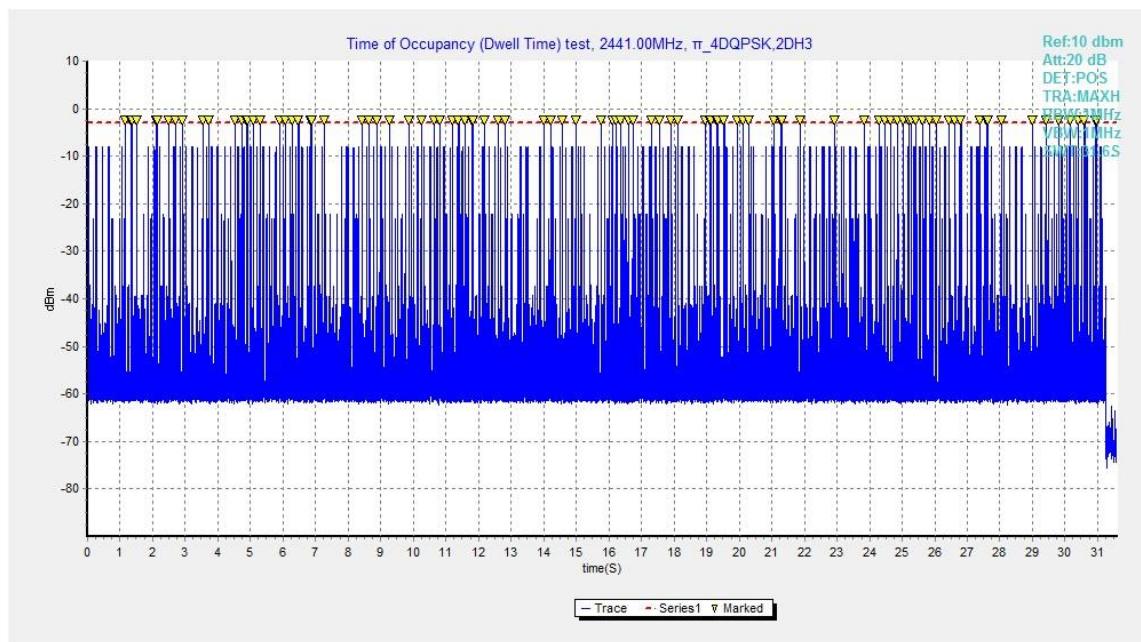


Fig.73. Number of Transmissions Measurement: Channel 39,Packet 2-DH3

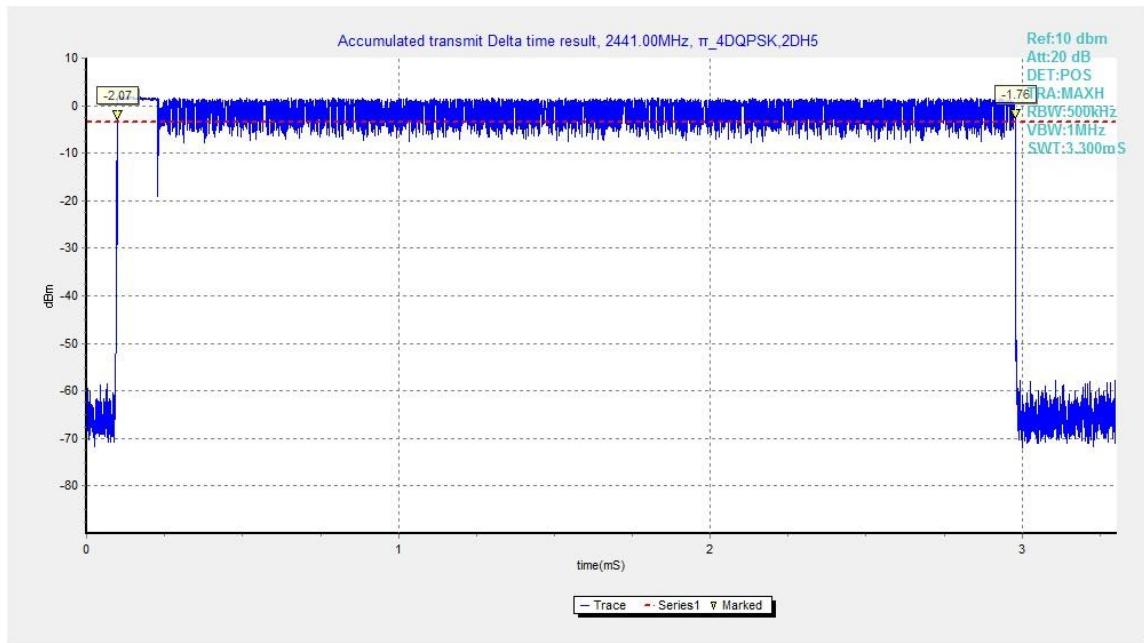


Fig.74. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5

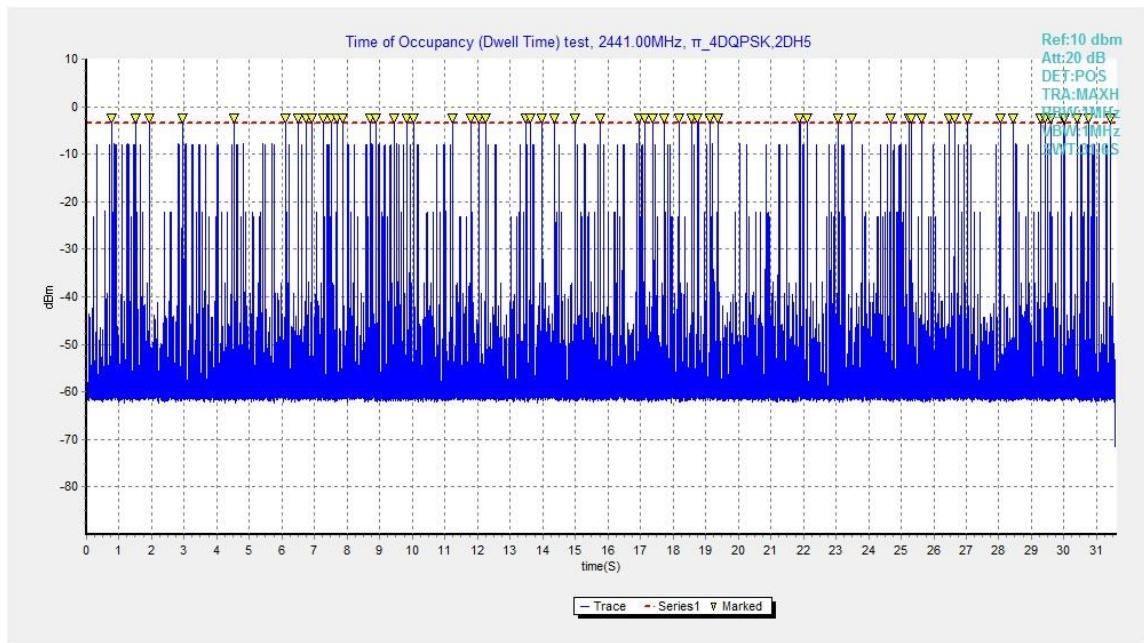


Fig.75. Number of Transmissions Measurement: Channel 39,Packet 2-DH5

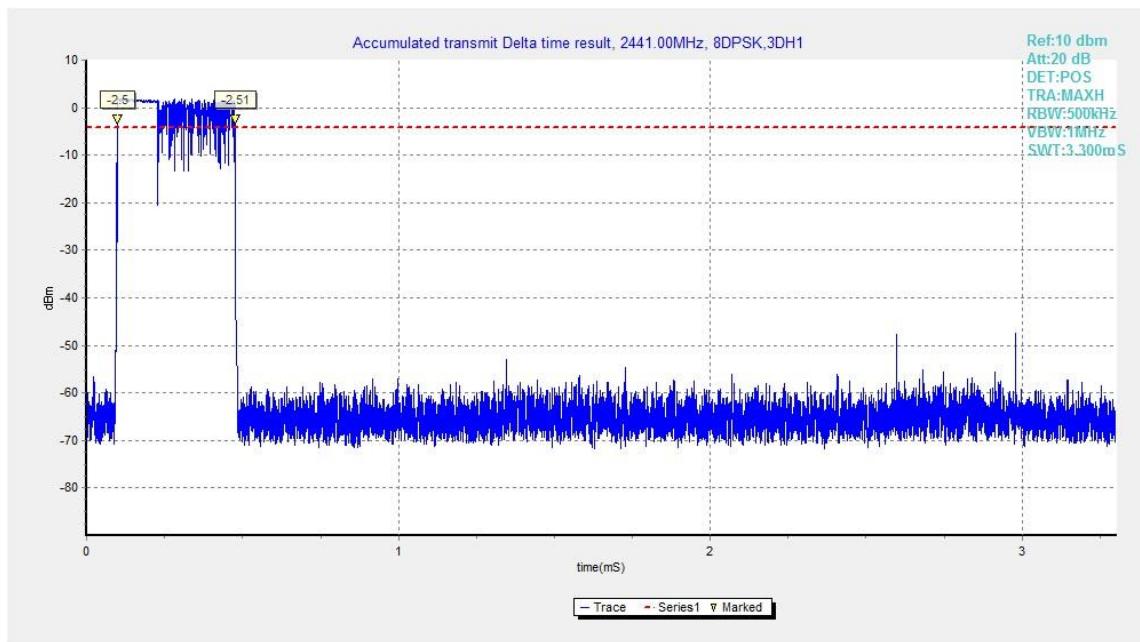


Fig.76. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1

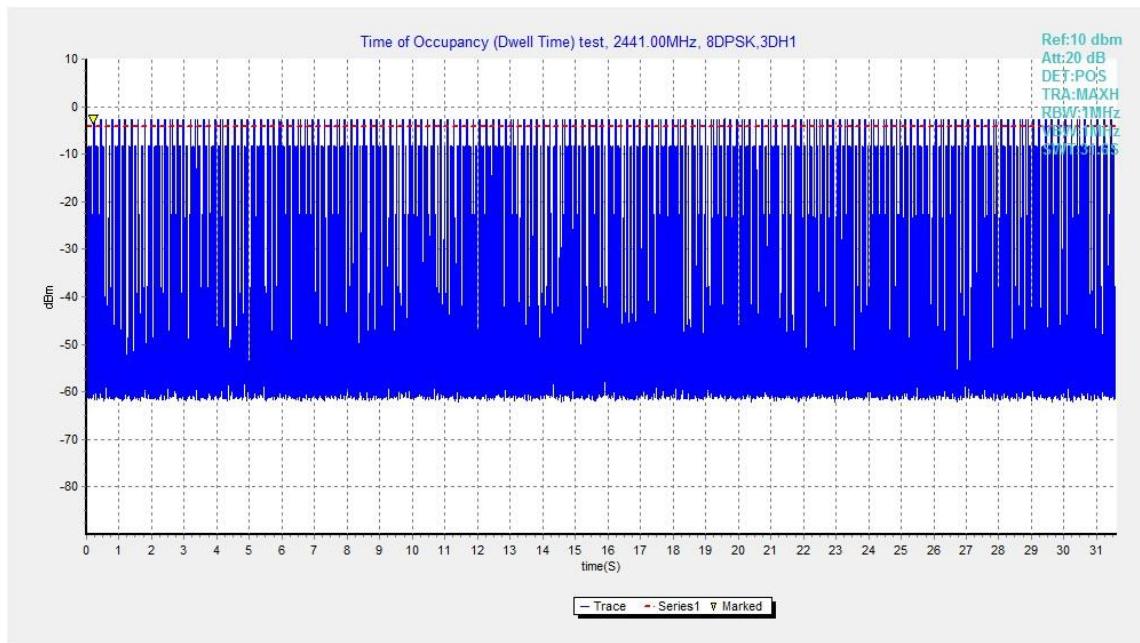


Fig.77. Number of Transmissions Measurement: Channel 39,Packet 3-DH1

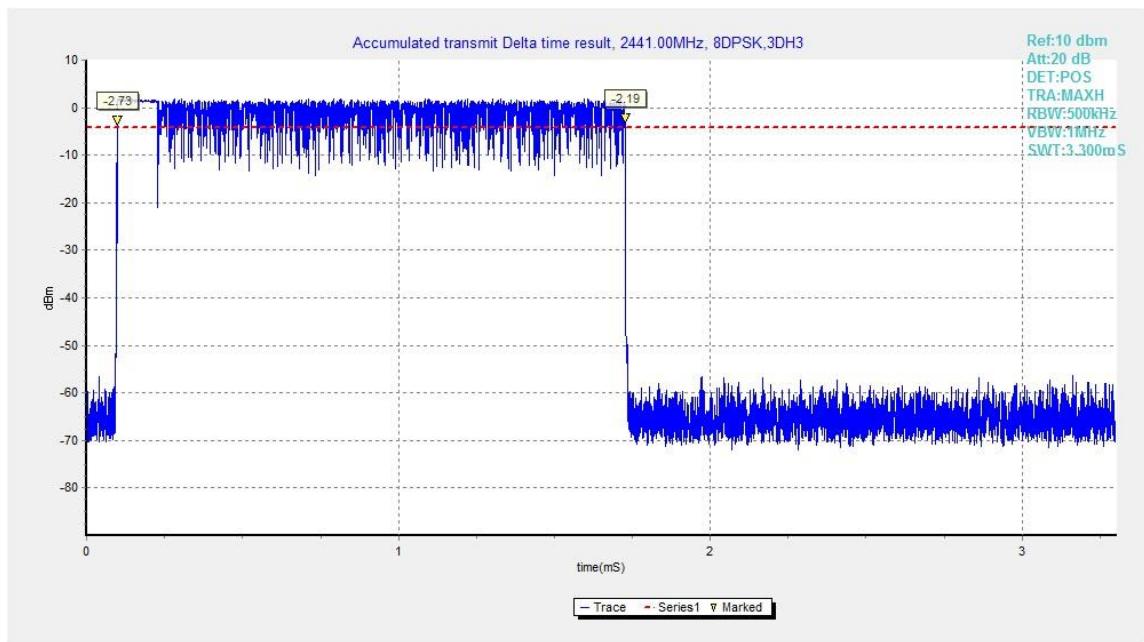


Fig.78. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3

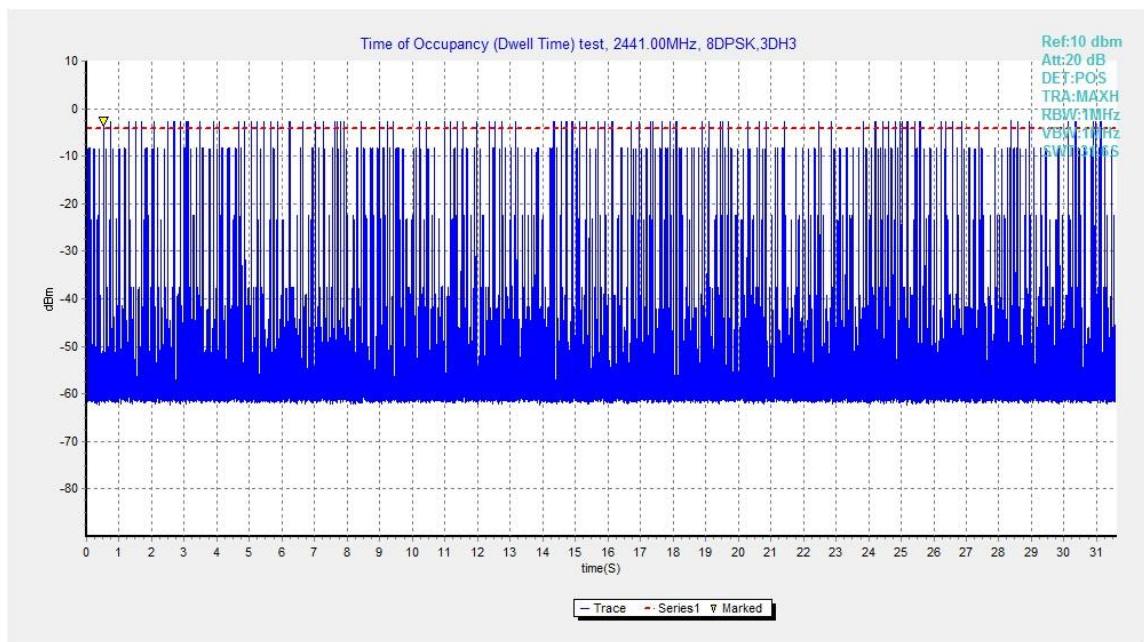


Fig.79. Number of Transmissions Measurement: Channel 39,Packet 3-DH3

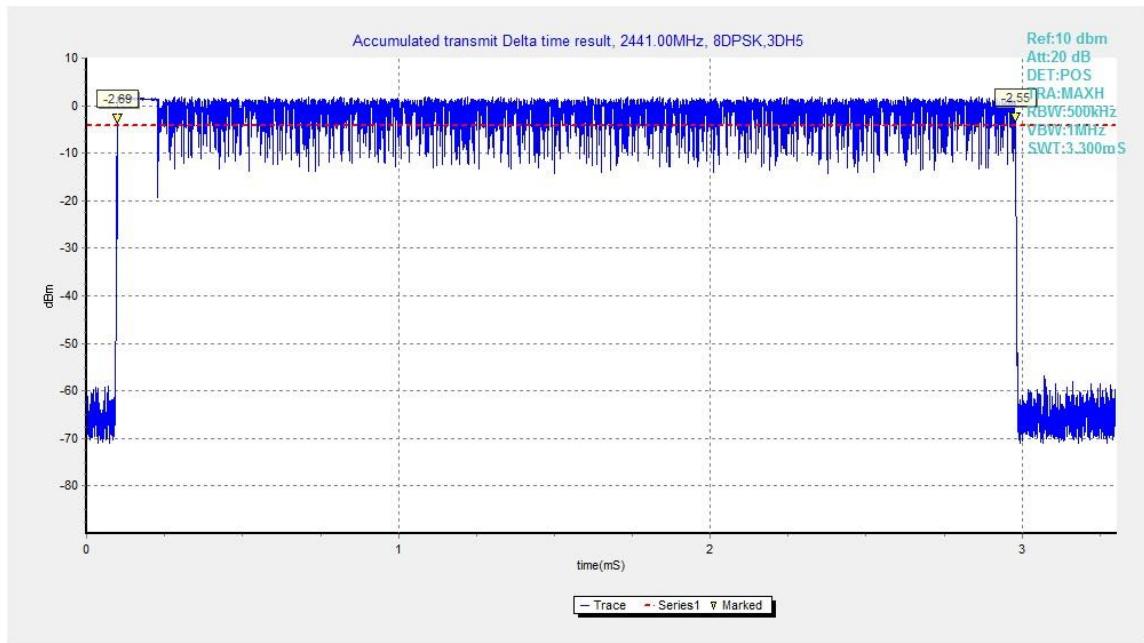


Fig.80. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5

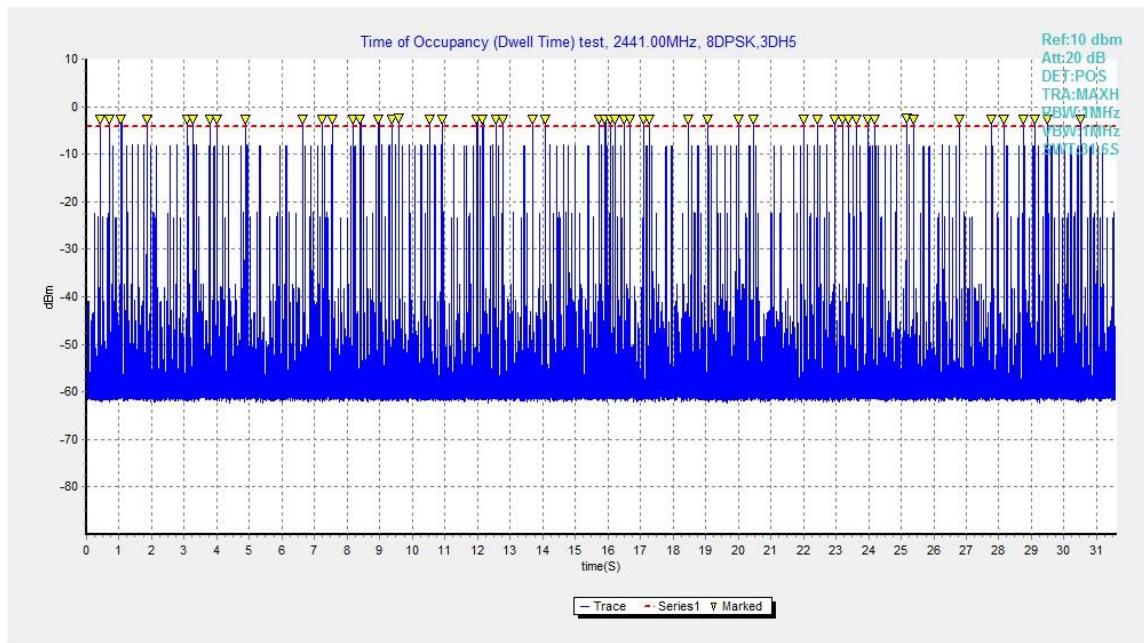


Fig.81. Number of Transmissions Measurement: Channel 39,Packet 3-DH5

## A.7. 20dB Bandwidth

### Method of Measurement: See ANSI C63.10-clause 6.9.2

Measurement Procedure - Unwanted Emissions

1. Set RBW = 30kHz.
2. Set VBW = 100 kHz.
3. Set span to 3MHz
4. Detector = peak.
5. Trace Mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize (this may take some time, depending on the extent of the span).

### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a)(1)	NA *

Use NdB Down function of the SA to measure the 20dB Bandwidth

\* Comment: This test case is not required according to the latest FCC 47 CFR Part 15.247. But the test results are necessary for “carrier frequency separation” test case, in Annex A.8.

### Measurement Results:

#### For GFSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.82	943.50	NA
39	Fig.83	948.00	NA
78	Fig.84	943.50	NA

#### For π/4 DQPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.85	1293.75	NA
39	Fig.86	1272.00	NA
78	Fig.87	1266.00	NA

#### For 8DPSK

Channel	20dB Bandwidth (kHz)		Conclusion
0	Fig.88	1289.25	NA
39	Fig.89	1290.75	NA
78	Fig.90	1293.00	NA

**Conclusion: NA**

**Test graphs as below:**

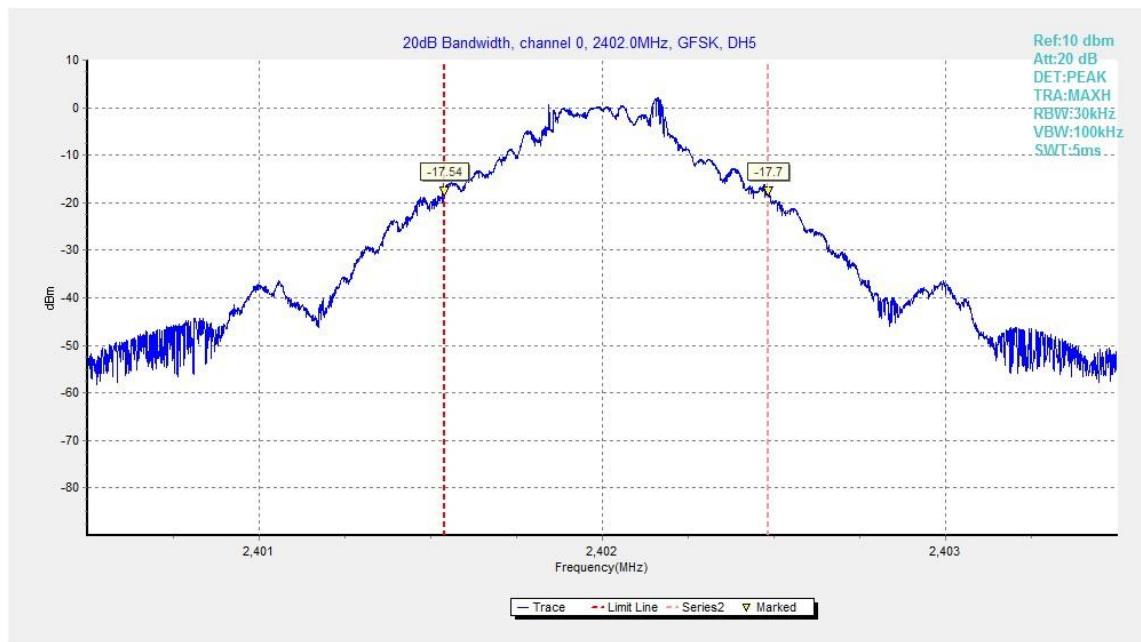


Fig.82. 20dB Bandwidth: GFSK, Channel 0

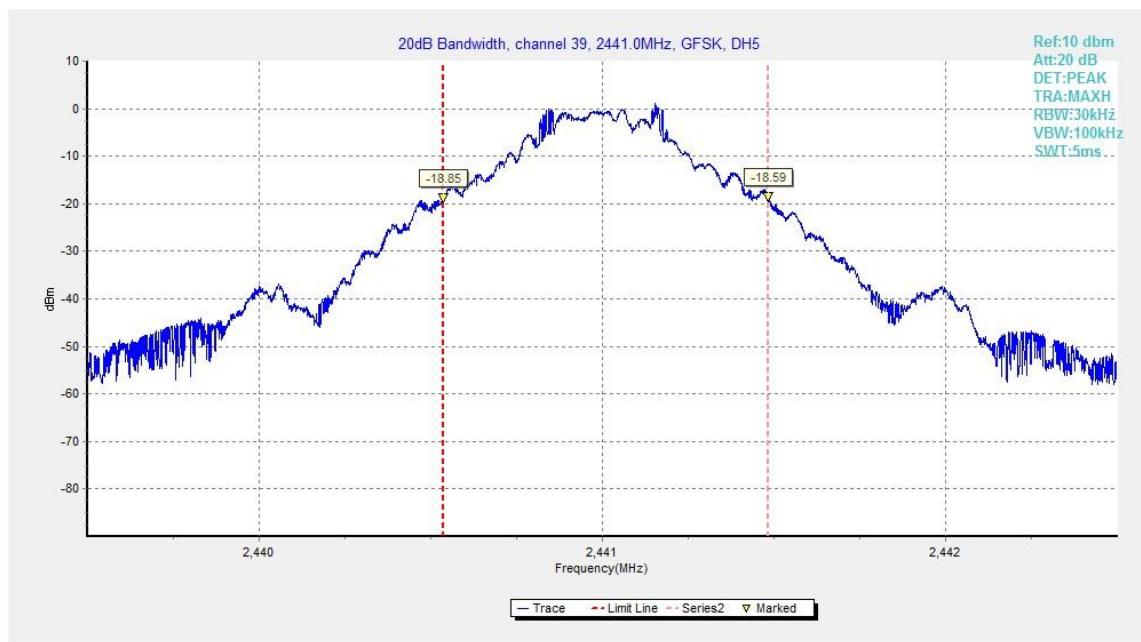


Fig.83. 20dB Bandwidth: GFSK, Channel 39

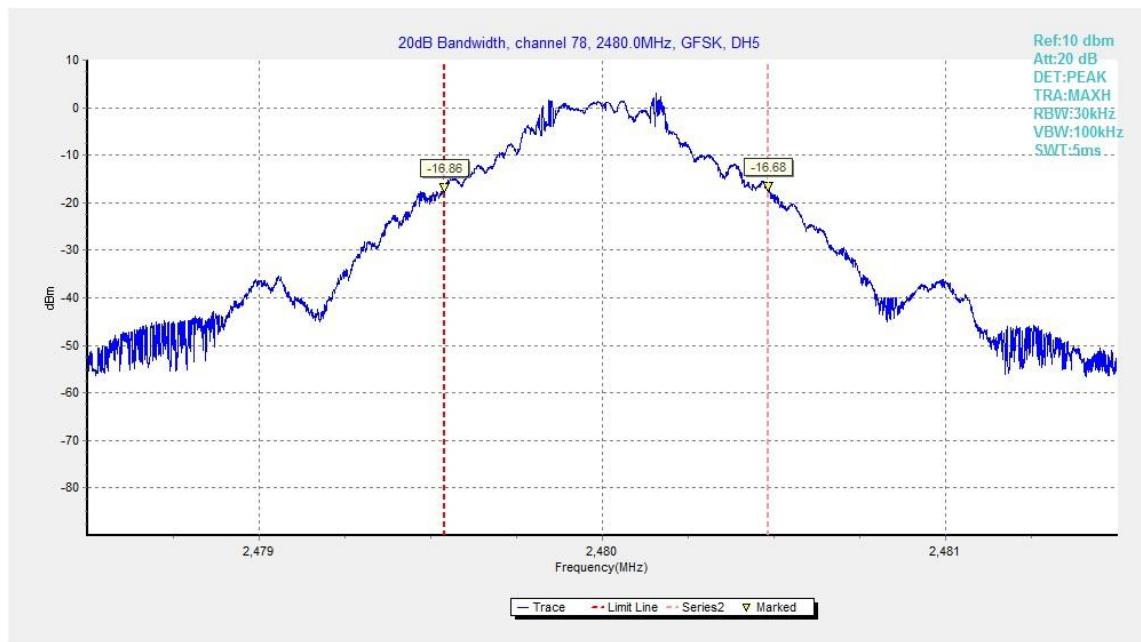


Fig.84. 20dB Bandwidth: GFSK, Channel 78

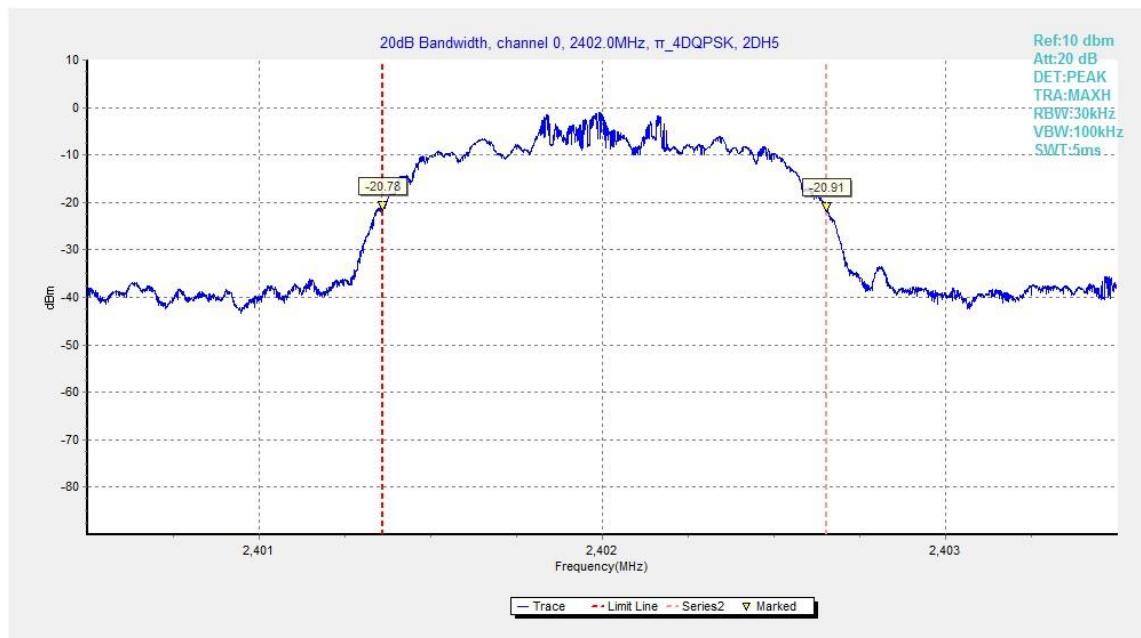


Fig.85. 20dB Bandwidth:  $\pi/4$  DQPSK, Channel 0

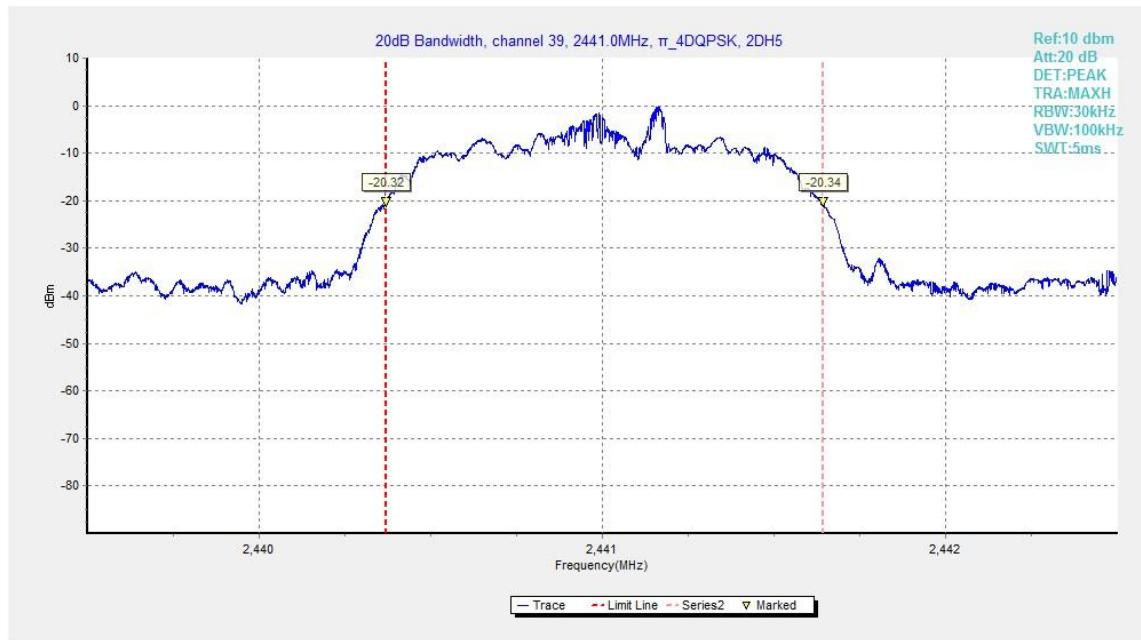


Fig.86. 20dB Bandwidth:  $\pi/4$  DQPSK, Channel 39

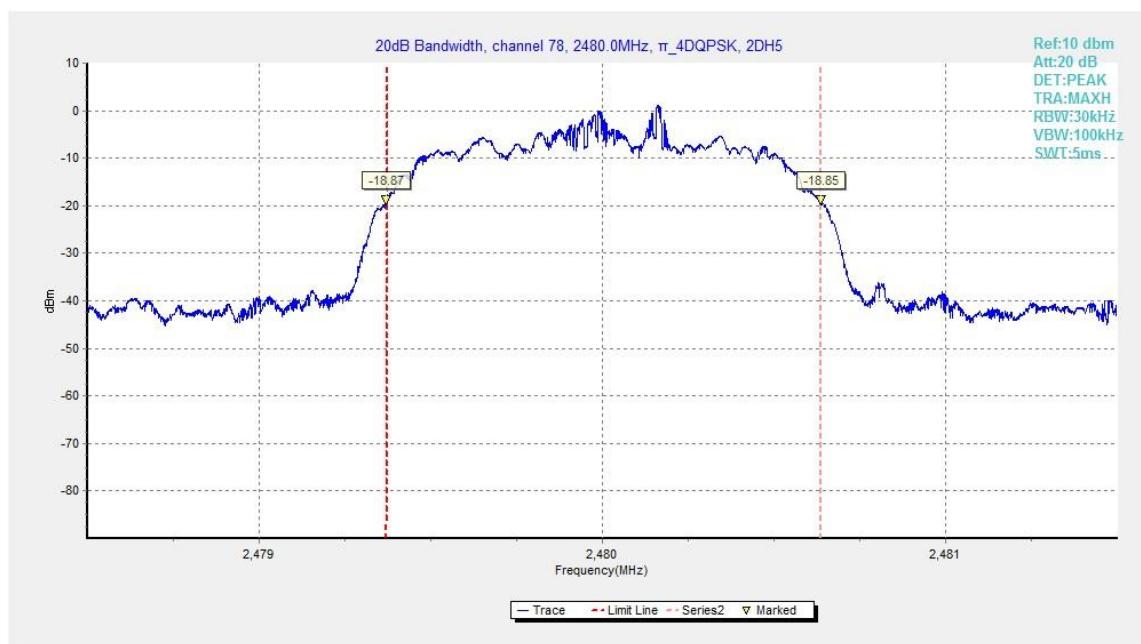


Fig.87. 20dB Bandwidth:  $\pi/4$  DQPSK, Channel 78

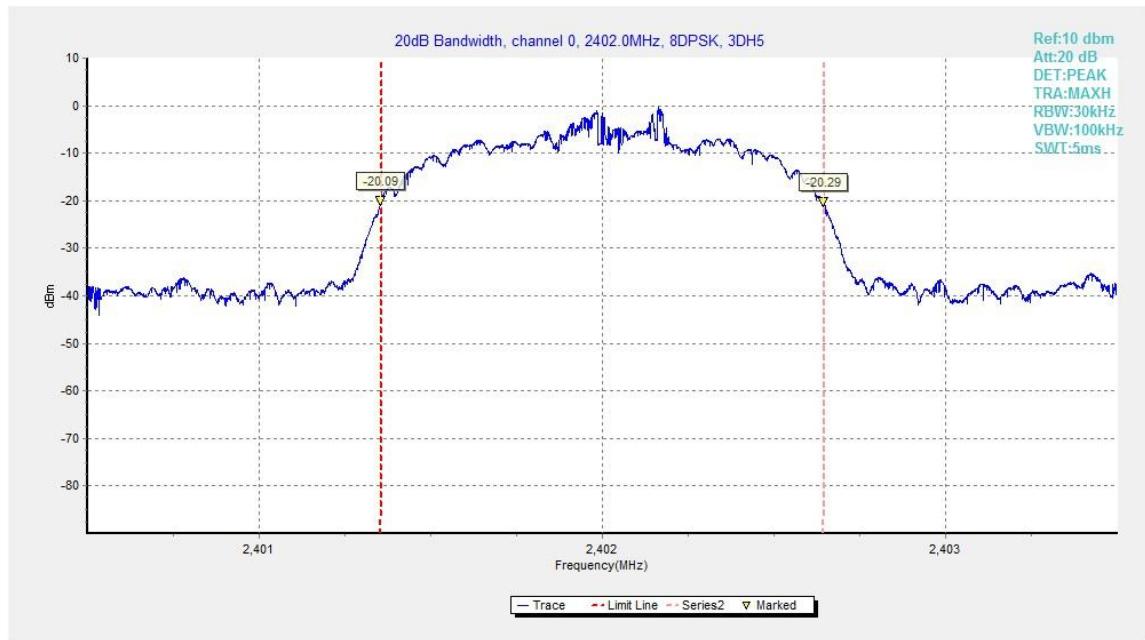


Fig.88. 20dB Bandwidth: 8DPSK, Channel 0

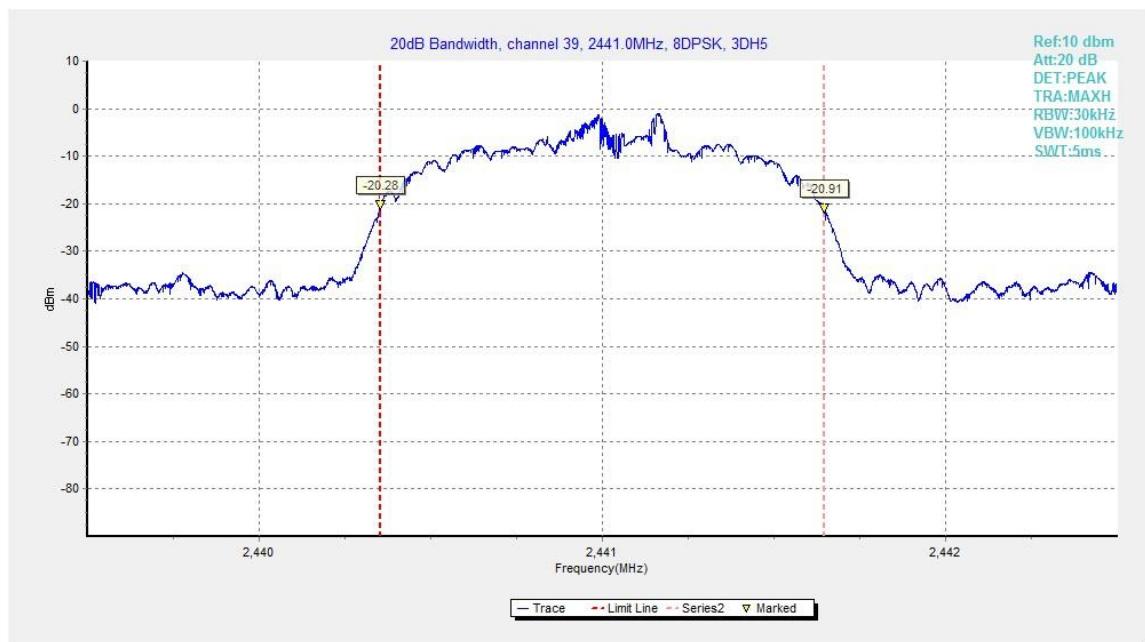


Fig.89. 20dB Bandwidth: 8DPSK, Channel 39

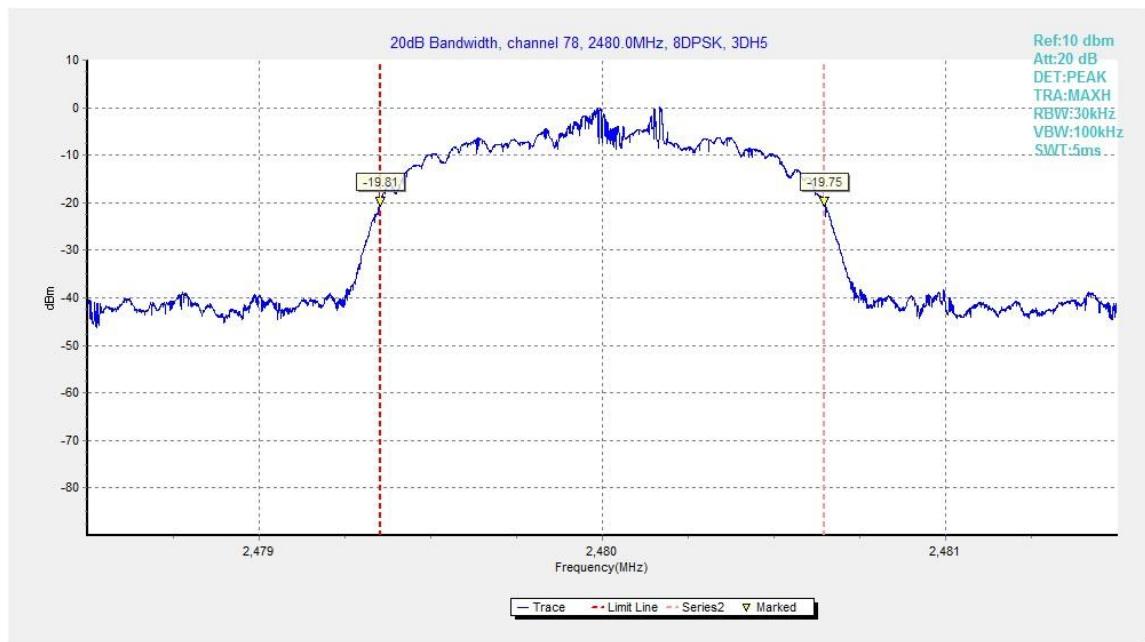


Fig.90. 20dB Bandwidth: 8DPSK, Channel 78

## A.8. Carrier Frequency Separation

### Method of Measurement: See ANSI C63.10-clause 7.8.2

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

- Span = 3MHz
- RBW=300kHz
- VBW=300kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

Search the peak marks of the middle frequency and adjacent channel, then record the separation between them.

\* Comment: This limit should be over 25 kHz or  $(2/3) * 20\text{dB}$  bandwidth, whichever is greater.

#### Measurement Limit:

Standard	Limit(kHz)
FCC 47 CFR Part 15.247(a)(1)	over 25 kHz or $(2/3) * 20\text{dB}$ bandwidth

#### Measurement Result:

##### For GFSK

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.91	990.75	P

##### For $\pi/4$ DQPSK

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.92	1017.00	P

##### For 8DPSK

Channel	Carrier frequency separation (kHz)		Conclusion
39	Fig.93	1032.75	P

**Conclusion: PASS**

**Test graphs as below:**

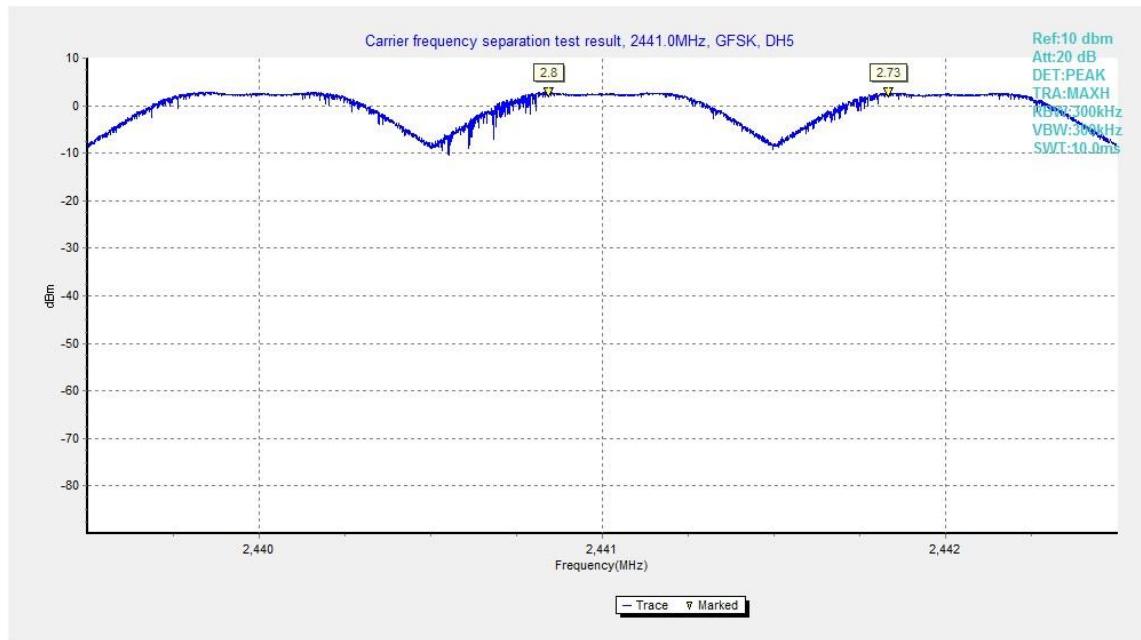


Fig.91. Carrier frequency separation measurement: GFSK, Channel 39

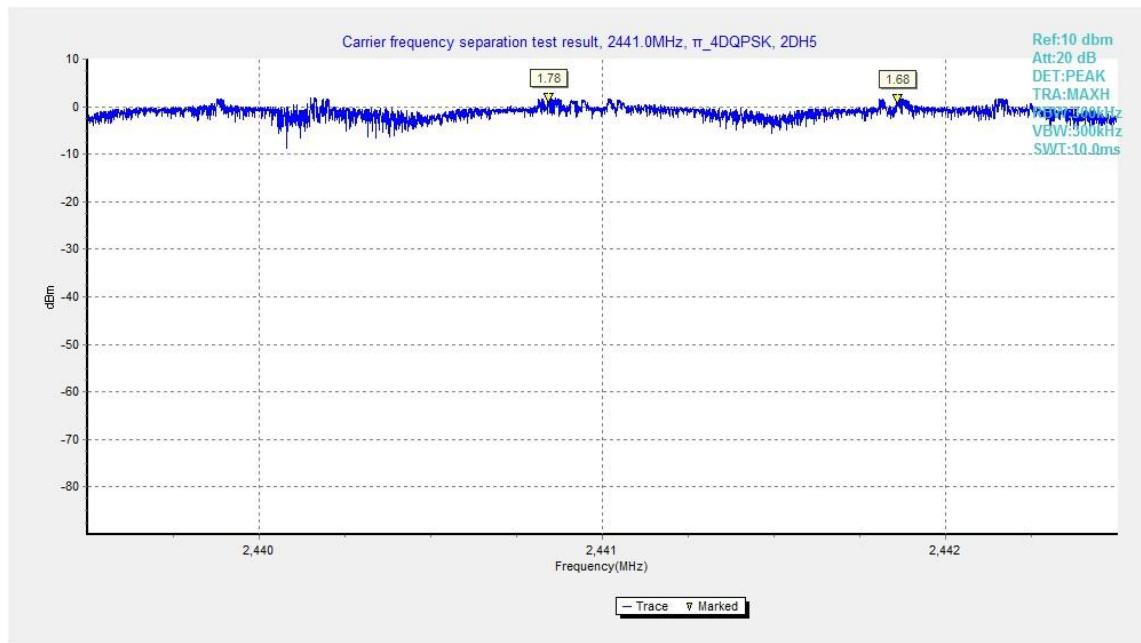


Fig.92. Carrier frequency separation measurement: π/4 DQPSK, Channel 39

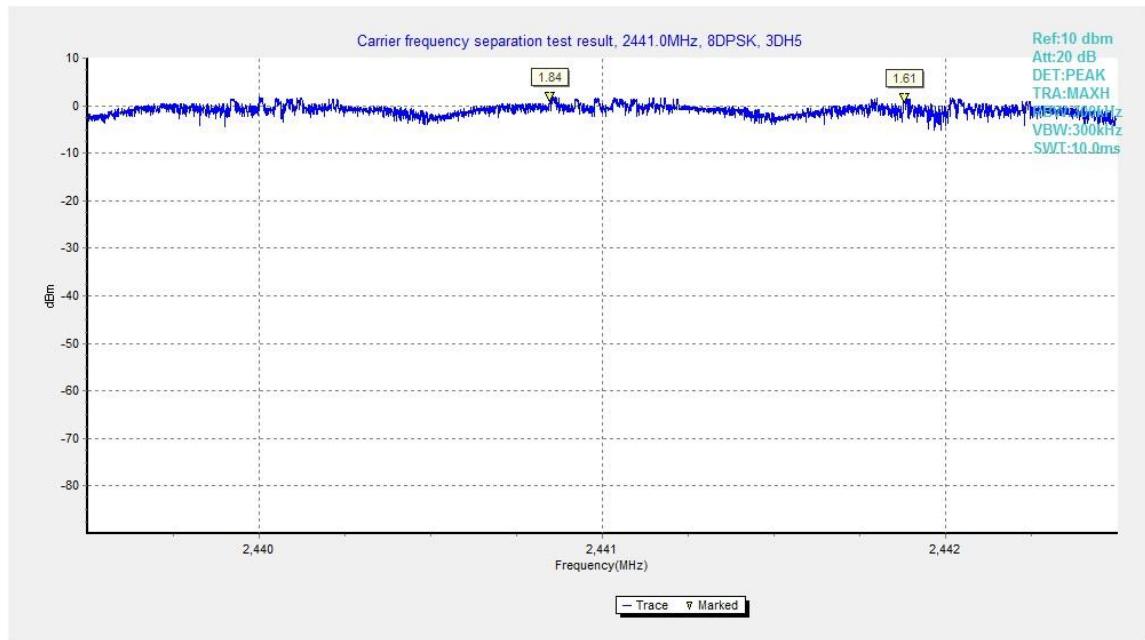


Fig.93. Carrier frequency separation measurement: 8DPSK, Channel 39

## A.9. Number of Hopping Channels

### Method of Measurement: See ANSI C63.10-clause 7.8.3

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

- Span = the frequency band of operation
- RBW = 500kHz
- VBW = 500kHz
- Sweep = auto
- Detector function = peak
- Trace = max hold
- Allow the trace to stabilize

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

#### Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) (1)(iii)	At least 15 non-overlapping channels

#### Measurement Result:

##### For GFSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.94	
40~78	Fig.95	P

##### For π/4 DQPSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.96	
40~78	Fig.97	P

##### For 8DPSK

Channel	Number of hopping channels	Conclusion
0~39	Fig.98	
40~78	Fig.99	P

#### Conclusion: PASS

#### Test graphs as below:

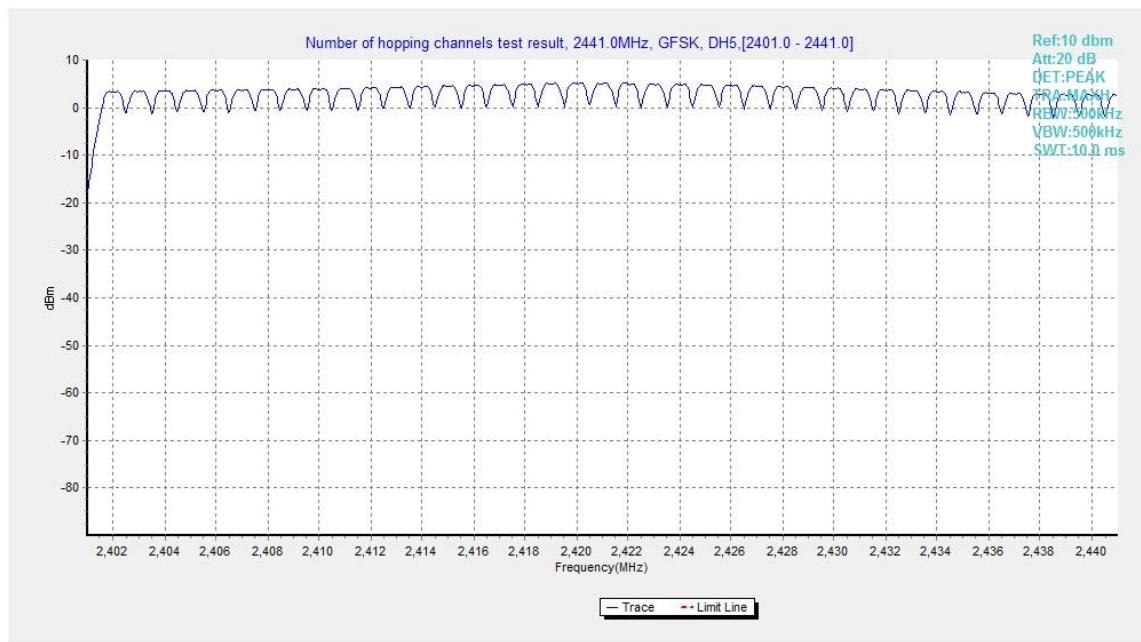


Fig.94. Number of hopping frequencies: GFSK, Channel 0 - 39

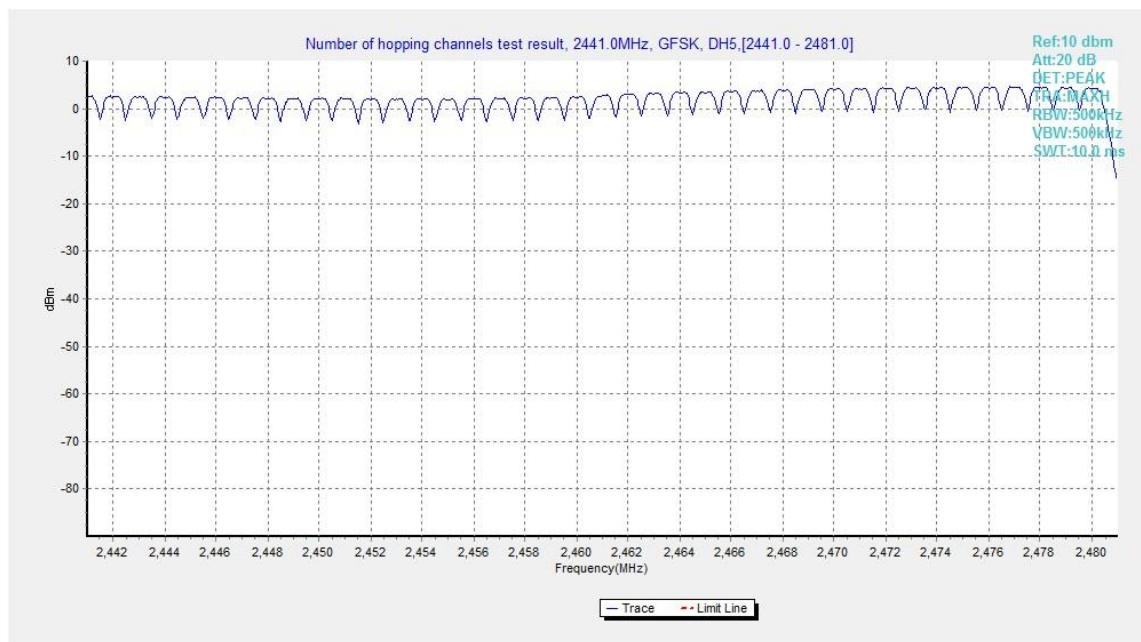


Fig.95. Number of hopping frequencies: GFSK, Channel 40 - 78

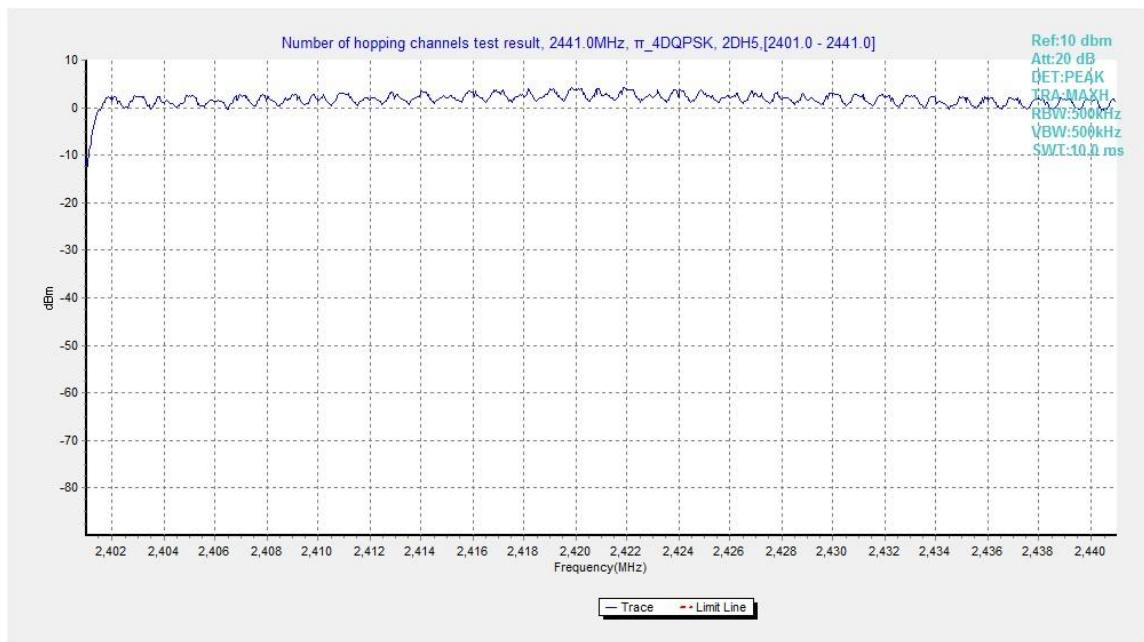


Fig.96. Number of hopping frequencies:  $\pi/4$  DQPSK, Channel 0 - 39

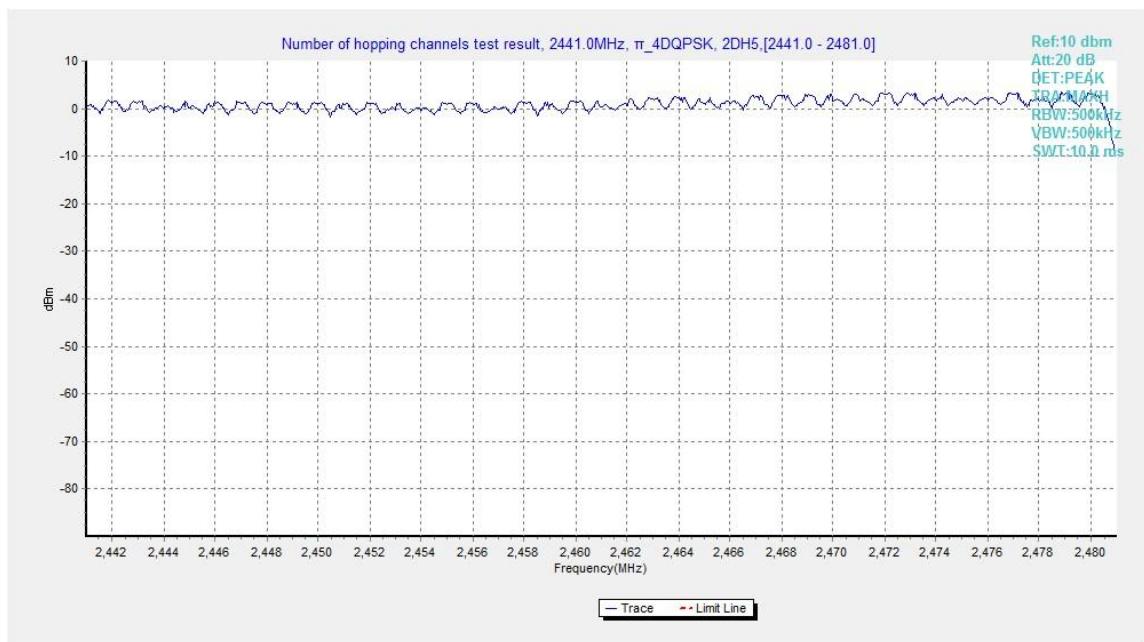


Fig.97. Number of hopping frequencies:  $\pi/4$  DQPSK, Channel 40 - 78

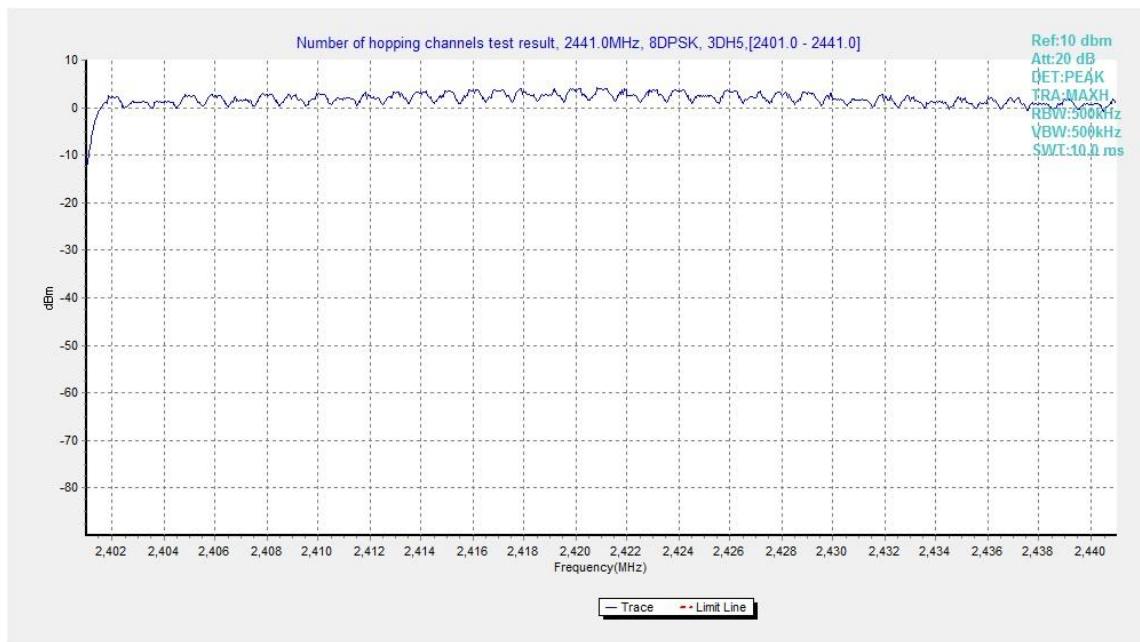


Fig.98. Number of hopping frequencies: 8DPSK, Channel 0 - 39

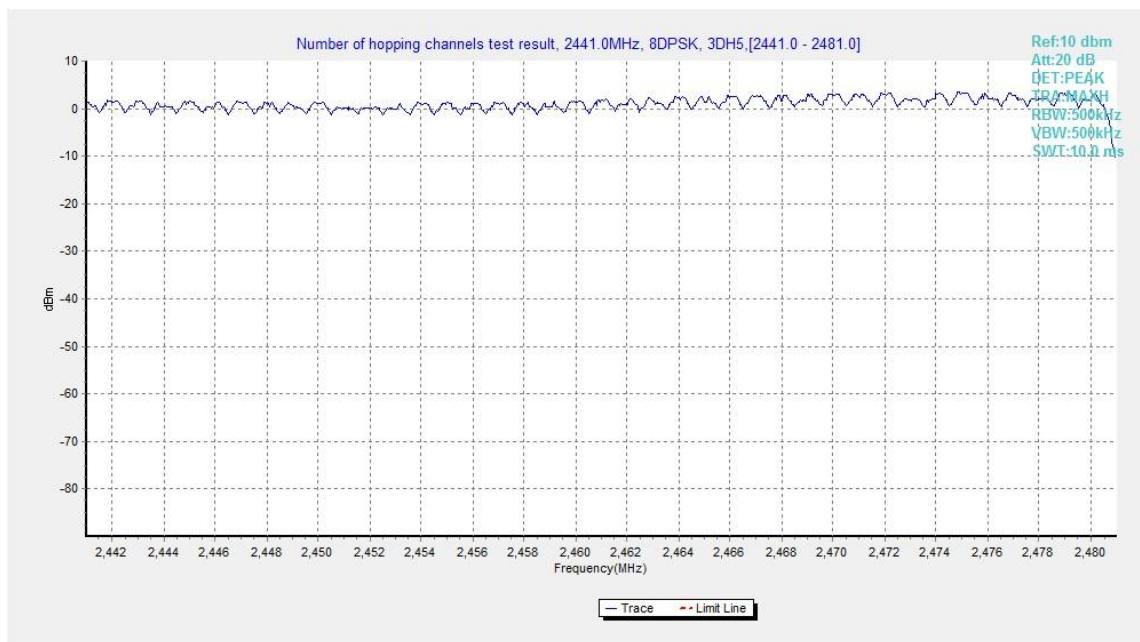


Fig.99. Number of hopping frequencies: 8DPSK, Channel 40 - 78

## A.10. AC Powerline Conducted Emission

**Method of Measurement: See ANSI C63.10-clause 6.2**

1. the one EUT cable configuration and arrangement and mode of operation that produced the emission with the highest amplitude relative to the limit is selected for the final measurement, while applying the appropriate modulating signal to the EUT.
2. If the EUT is relocated from an exploratory test site to a final test site, the highest emissions shall be remaximized at the final test location before final ac power-line conducted emission measurements are performed.
3. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) is then performed for the full frequency range for which the EUT is being tested for compliance without further variation of the EUT arrangement, cable positions, or EUT mode of operation.
4. If the EUT is comprised of equipment units that have their own separate ac power connections, e.g., floor-standing equipment with independent power cords for each shelf that are able to connect directly to the ac power network, each current-carrying conductor of one unit is measured while the other units are connected to a second (or more) LISN(s). All units shall be separately measured. If a power strip is provided by the manufacturer, to supply all of the units making up the EUT, only the conductors in the power cord of the power strip shall be measured.
5. If the EUT uses a detachable antenna, these measurements shall be made with a suitable dummy load connected to the antenna output terminals; otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. When measuring the ac conducted emissions from a device that operates between 150 kHz and 30 MHz a non-detachable antenna may be replaced with a dummy load for the measurements within the fundamental emission band of the transmitter, but only for those measurements.<sup>36</sup> Record the six highest EUT emissions relative to the limit of each of the current-carrying conductors of the power cords of the equipment that comprises the EUT over the frequency range specified by the procuring or regulatory agency. Diagram or photograph the test setup that was used. See Clause 8 for full reporting requirements.

### Test Condition

Voltage (V)	Frequency (Hz)
120	60

### Measurement Result and limit:

#### Bluetooth (Quasi-peak Limit)

Frequency range (MHz)	Quasi-peak Limit (dB $\mu$ V)	Conclusion
0.15 to 0.5	66 to 56	P
0.5 to 5	56	
5 to 30	60	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

**Bluetooth (Average Limit)**

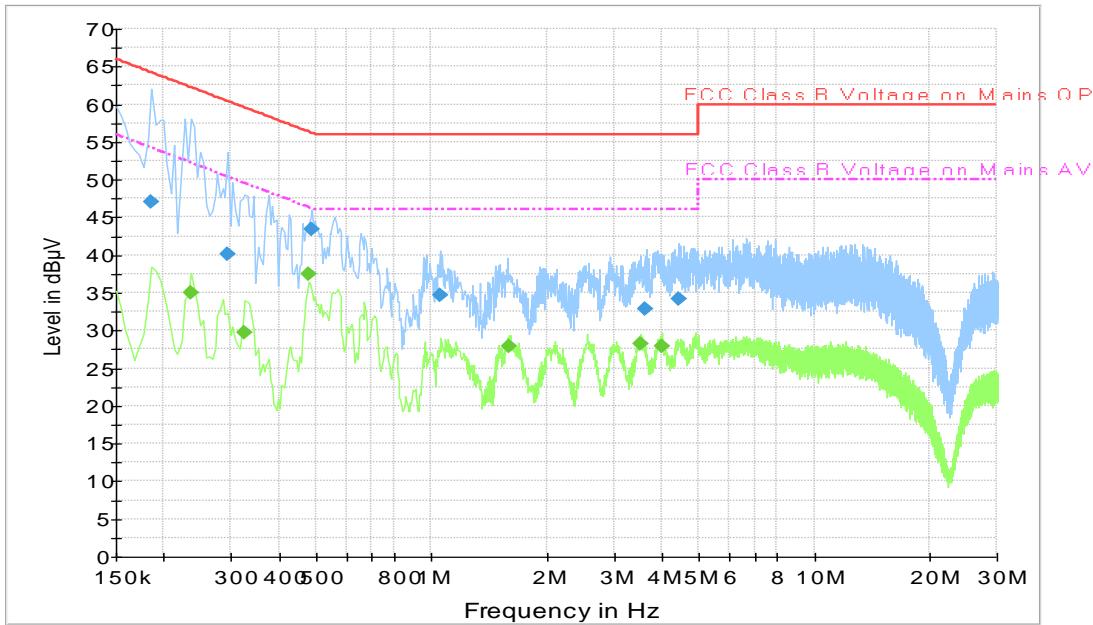
Frequency range (MHz)	Average Limit (dB $\mu$ V)	Conclusion
0.15 to 0.5	56 to 46	P
0.5 to 5	46	
5 to 30	50	

NOTE: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz.

The measurement is made according to ANSI C63.10

**Conclusion: PASS**

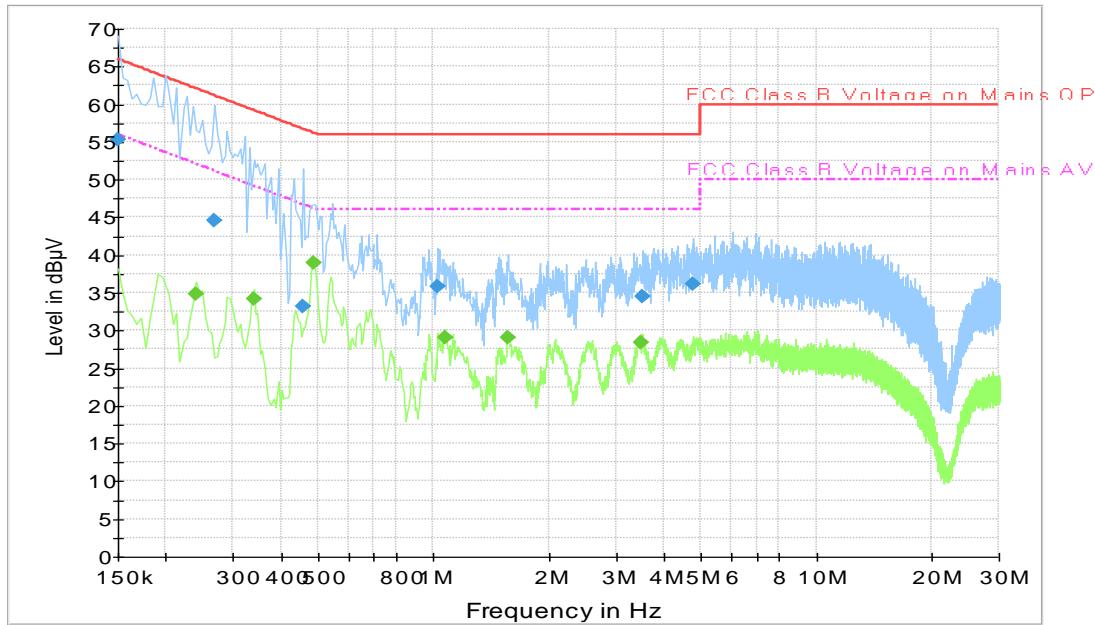
**Test graphs as below:**

**Traffic:**

**Final Result 1**

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.186000	47.0	2000.0	9.000	On	L1	19.8	17.2	64.2
0.294000	40.1	2000.0	9.000	On	L1	19.8	20.4	60.4
0.487500	43.4	2000.0	9.000	On	L1	19.9	12.8	56.2
1.050000	34.8	2000.0	9.000	On	L1	19.7	21.2	56.0
3.601500	32.9	2000.0	9.000	On	L1	19.5	23.1	56.0
4.416000	34.2	2000.0	9.000	On	L1	19.6	21.8	56.0

**Final Result 2**

Frequency (MHz)	Average (dBuV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.235500	34.9	2000.0	9.000	On	L1	19.8	17.3	52.3
0.325500	29.7	2000.0	9.000	On	L1	19.8	19.8	49.6
0.478500	37.5	2000.0	9.000	On	L1	19.9	8.9	46.4
1.590000	27.9	2000.0	9.000	On	L1	19.7	18.1	46.0
3.529500	28.3	2000.0	9.000	On	L1	19.5	17.7	46.0
3.997500	27.8	2000.0	9.000	On	L1	19.5	18.2	46.0

**Idle:**


## Final Result 1

Frequency (MHz)	QuasiPeak (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.150000	55.2	2000.0	9.000	On	N	20.2	10.8	66.0
0.267000	44.6	2000.0	9.000	On	N	19.8	16.6	61.2
0.456000	33.1	2000.0	9.000	On	N	19.9	23.7	56.8
1.023000	35.8	2000.0	9.000	On	L1	19.7	20.2	56.0
3.511500	34.4	2000.0	9.000	On	L1	19.5	21.6	56.0
4.780500	36.1	2000.0	9.000	On	L1	19.6	19.9	56.0

## Final Result 2

Frequency (MHz)	Average (dBuV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBuV)
0.240000	34.9	2000.0	9.000	On	L1	19.8	17.2	52.1
0.339000	34.2	2000.0	9.000	On	L1	19.9	15.0	49.2
0.487500	38.9	2000.0	9.000	On	L1	19.9	7.3	46.2
1.072500	29.1	2000.0	9.000	On	L1	19.7	17.0	46.0
1.572000	29.0	2000.0	9.000	On	L1	19.7	17.0	46.0
3.498000	28.4	2000.0	9.000	On	L1	19.5	17.6	46.0

**\*\*\*END OF REPORT\*\*\***