

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

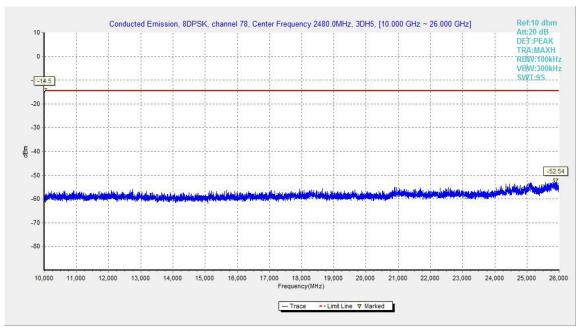


Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz





# 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	Field strength(uV/m)	Field strength(dBuV/m)
(MHz)		
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	RBW/VBW	Sweep Time(s)
(MHz)		
30-1000	100KHz/300KHz	5
1000-4000	1MHz/3MHz	15
4000-18000	1MHz/3MHz	40
18000-26500	1MHz/3MHz	20

## Measurement Results for Set.11:

Result=P<sub>Mea</sub>+ARPL

## For GFSK

Channel	Frequency Range	Test Results	Conclusion
Power	2.31GHz~2.43GHzL	Fig.58	Р
Power	2.45GHz~2.50GHzH	Fig.59	Р

## Forπ/4 DQPSK

Channel	Frequency Range	Test Results	Conclusion
Power	2.31GHz~2.43GHzL	Fig.60	Р
Power	2.45GHz~2.50GHzH	Fig.61	Р

## For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Power	2.31GHz~2.43GHzL	Fig.62	Р
Power	2.45GHz~2.50GHzH	Fig.63	Р





# GFSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17976.0	36.5	-25.5	43.4	18.6	V
17961.0	36.4	-25.5	43.4	18.5	V
17992.5	36.4	-25.5	43.4	18.5	V
17892.0	36.3	-25.5	43.4	18.4	V
17902.5	36.3	-25.5	43.4	18.4	V
2381.7	39.6	-14.2	27.2	26.6	V

## GFSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17970.0	36.2	-25.5	43.4	18.3	Н
17979.0	36.2	-25.5	43.4	18.3	V
17965.5	36.1	-25.5	43.4	18.2	Н
17995.5	36.1	-25.5	43.4	18.2	Н
17886.0	36.0	-25.5	43.4	18.1	Н
17890.5	36.0	-25.5	43.4	18.1	V

# GFSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17956.5	36.5	-25.5	43.4	18.6	V
17994.0	36.5	-25.5	43.4	18.6	V
17776.5	36.4	-25.5	43.4	18.5	V
17872.5	36.4	-25.5	43.4	18.5	V
17979.0	36.4	-25.5	43.4	18.5	V
2485.6	39.5	-14.2	27.2	26.5	V





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

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17991.0	36.8	-25.5	43.4	18.9	V
17889.0	36.7	-25.5	43.4	18.8	V
17982.0	36.7	-25.5	43.4	18.8	V
17986.5	36.7	-25.5	43.4	18.8	V
17898.0	36.6	-25.5	43.4	18.7	V
2383.0	39.5	-14.2	27.2	26.5	Н

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

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17889.0	36.6	-25.5	43.4	18.7	V
17910.0	36.6	-25.5	43.4	18.7	V
17959.5	36.6	-25.5	43.4	18.7	V
17970.0	36.6	-25.5	43.4	18.7	Н
17983.5	36.6	-25.5	43.4	18.7	V
17989.5	36.6	-25.5	43.4	18.7	V

# $\pi/4$ DQPSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17962.5	36.6	-25.5	43.4	18.7	V
17992.5	36.6	-25.5	43.4	18.7	V
17797.5	36.5	-25.5	43.4	18.6	V
17893.5	36.5	-25.5	43.4	18.6	V
17904.0	36.5	-25.5	43.4	18.6	V
2486.2	39.8	-14.2	27.2	26.8	V





# 8DPSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17898.0	36.7	-25.5	43.4	18.8	V
17986.5	36.7	-25.5	43.4	18.8	V
17994.0	36.7	-25.5	43.4	18.8	V
17809.5	36.6	-25.5	43.4	18.7	Н
17812.5	36.6	-25.5	43.4	18.7	V
2381.4	39.6	-14.2	27.2	26.6	V

## 8DPSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17994.0	36.9	-25.5	43.4	19.0	V
17988.0	36.8	-25.5	43.4	18.9	V
17992.5	36.8	-25.5	43.4	18.9	V
17893.5	36.7	-25.5	43.4	18.8	V
17976.0	36.7	-25.5	43.4	18.8	V
17995.5	36.7	-25.5	43.4	18.8	V

# 8DPSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17985.0	36.7	-25.5	43.4	18.8	V
17989.5	36.7	-25.5	43.4	18.8	V
17991.0	36.7	-25.5	43.4	18.8	V
17980.5	36.6	-25.5	43.4	18.7	V
17982.0	36.6	-25.5	43.4	18.7	V
2485.5	39.5	-14.2	27.2	26.5	Н





# GFSK Ch 0 – Peak

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17961.0	49.3	-25.5	43.4	31.4	V
17772.0	49.0	-25.5	43.4	31.1	V
17875.5	48.9	-25.5	43.4	31.0	V
17878.5	48.6	-25.5	43.4	30.7	V
17808.0	48.5	-25.5	43.4	30.6	Н
2380.9	53.5	-14.2	27.2	40.5	Н

# GFSK Ch 39 - Peak

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17890.5	48.4	-25.5	43.4	30.5	V
17883.0	48.3	-25.5	43.4	30.4	V
17896.5	48.3	-25.5	43.4	30.4	V
17919.0	48.3	-25.5	43.4	30.4	V
17415.0	48.2	-26.9	43.4	31.7	Н
17731.5	48.2	-25.7	43.4	30.5	Н

## GFSK Ch 78 - Peak

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17442.0	48.8	-26.9	43.4	32.3	V
17712.0	48.8	-25.7	43.4	31.1	V
17922.0	48.5	-25.5	43.4	30.6	V
17997.0	48.5	-25.5	43.4	30.6	Н
17898.0	48.4	-25.5	43.4	30.5	V
2490.7	52.5	-14.2	27.2	39.5	V





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

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17889.0	50.4	-25.5	43.4	32.5	V
17955.0	49.4	-25.5	43.4	31.5	Н
17791.5	49.1	-25.5	43.4	31.2	V
17824.5	48.9	-25.5	43.4	31.0	Н
17965.5	48.9	-25.5	43.4	31.0	V
2383.4	52.7	-14.2	27.2	39.7	Н

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

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17905.5	48.9	-25.5	43.4	31.0	Н
17913.0	48.9	-25.5	43.4	31.0	Н
17983.5	48.8	-25.5	43.4	30.9	V
17824.5	48.7	-25.5	43.4	30.8	V
17830.5	48.7	-25.5	43.4	30.8	V
17862.0	48.7	-25.5	43.4	30.8	V

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

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17901.0	48.6	-25.5	43.4	30.7	V
17604.0	48.5	-25.7	43.4	30.8	Н
17868.0	48.5	-25.5	43.4	30.6	Н
17460.0	48.4	-26.9	43.4	31.9	V
17647.5	48.4	-25.7	43.4	30.7	V
2499.1	52.8	-13.9	28.4	38.3	V





# 8DPSK Ch 0 - Peak

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17871.0	49.4	-25.5	43.4	31.5	Н
17568.0	49.2	-25.7	43.4	31.5	V
17898.0	49.0	-25.5	43.4	31.1	V
17812.5	48.8	-25.5	43.4	30.9	V
17976.0	48.8	-25.5	43.4	30.9	V
2389.4	52.6	-14.2	27.2	39.6	Н

## 8DPSK Ch 39 - Peak

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17733.0	49.4	-25.7	43.4	31.7	V
17643.0	49.2	-25.7	43.4	31.5	V
17811.0	49.1	-25.5	43.4	31.2	V
17832.0	49.0	-25.5	43.4	31.1	V
17895.0	48.9	-25.5	43.4	31.0	V
17608.5	48.8	-25.7	43.4	31.1	V

## 8DPSK Ch 78 - Peak

Frequency (MHz)	Measurement Result (dBµV/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dBµV)	Antenna Pol. (H/V)
17994.0	49.5	-25.5	43.4	31.6	Н
17982.0	49.0	-25.5	43.4	31.1	V
17892.0	48.9	-25.5	43.4	31.0	Н
17895.0	48.9	-25.5	43.4	31.0	V
17784.0	48.8	-25.5	43.4	30.9	V
2485.3	53.4	-14.2	27.2	40.4	Н

Conclusion: PASS Test graphs as below:





Full Spectrum

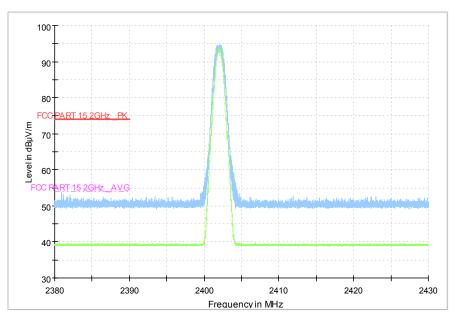


Fig.58. Radiated emission (Power): GFSK, low channel

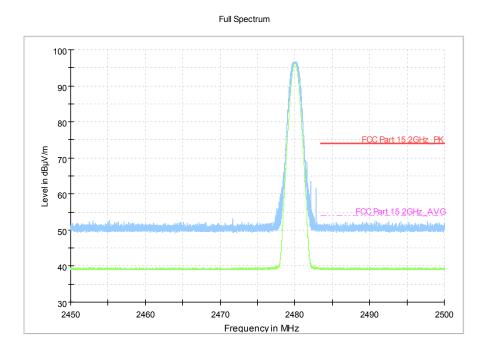


Fig.59. Radiated emission (Power) GFSK, high channel





Full Spectrum

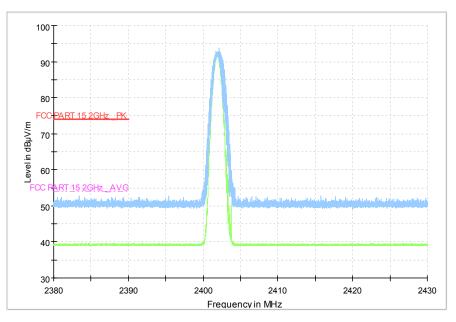


Fig.60. Radiated emission (Power):  $\pi/4$  DQPSK, low channel

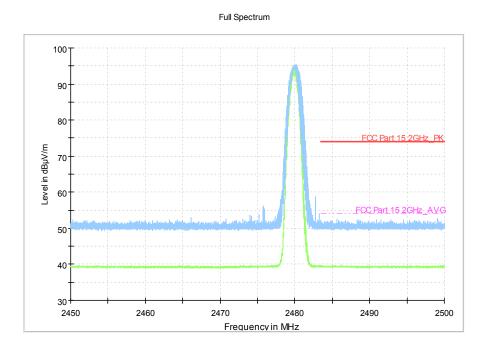


Fig.61. Radiated emission (Power):  $\pi/4$  DQPSK, high channel





Full Spectrum

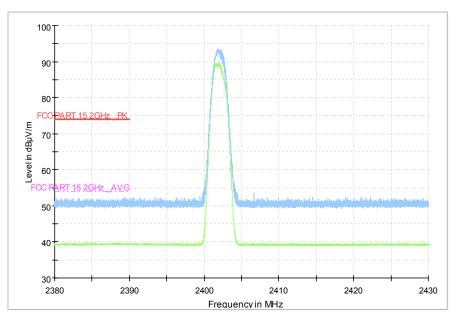


Fig.62. Radiated emission (Power): 8DPSK, low channel

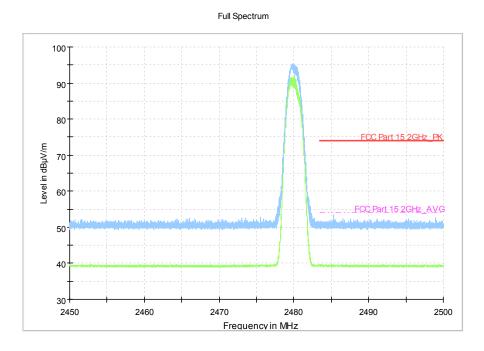


Fig.63. Radiated emission (Power): 8DPSK, high channel





# 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 ≥ 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	Pulse time (ms)			per of hissions	Dwell Time (ms)	Conclusion
	DH1	Fig.64	0.38	Fig.65	321	121.98	Р
39	DH3	Fig.66	1.64	Fig.67	106	173.84	Р
	DH5	Fig.68	2.89	Fig.69	62	179.18	Р

## For π/4 DQPSK

Channel	Packet	Pulse time (ms)		Numl Transm		Dwell Time (ms)	Conclusion
	2DH1	Fig.70	0.39	Fig.71	320	124.80	Р
39	2DH3	Fig.72	1.64	Fig.73	114	186.96	Р
	2DH5	Fig.74	2.89	Fig.75	73	210.97	Р





# For 8DPSK

Channel	Packet	Pulse time (ms)		Numb Transm	per of hissions	Dwell Time (ms)	Conclusion
	3DH1	Fig.76	0.39	Fig.77	320	124.80	Р
39	3DH3	Fig.78	1.64	Fig.79	121	198.44	Р
	3DH5	Fig.80	2.89	Fig.81	53	153.17	Р

**Conclusion: PASS** 

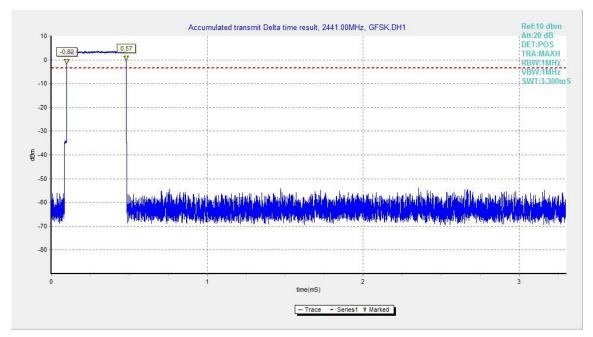


Fig.64. Time of occupancy (Dwell Time): Channel 39, Packet DH1





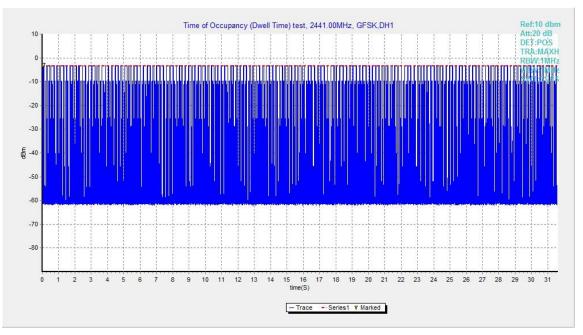


Fig.65. Number of Transmissions Measurement: Channel 39, Packet DH1

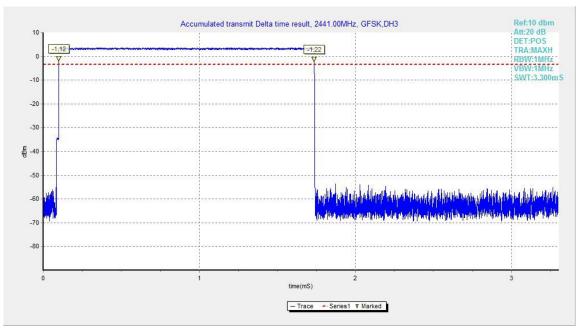


Fig.66. Time of occupancy (Dwell Time): Channel 39, Packet DH3





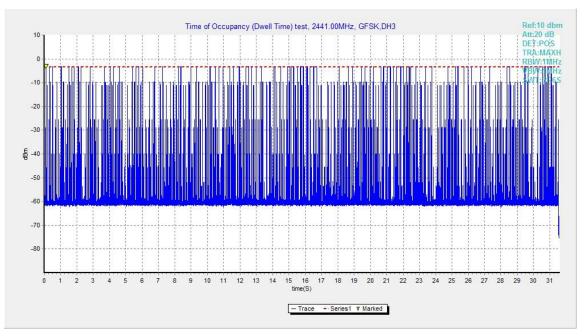


Fig.67. Number of Transmissions Measurement: Channel 39, Packet DH3

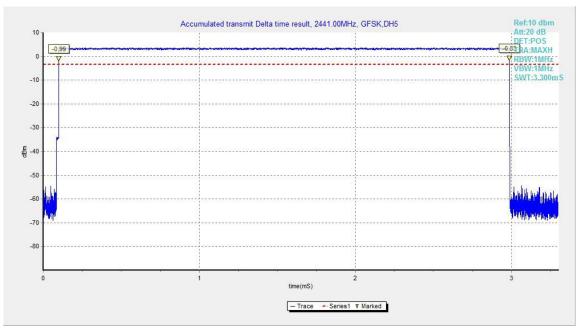


Fig.68. Time of occupancy (Dwell Time): Channel 39, Packet DH5





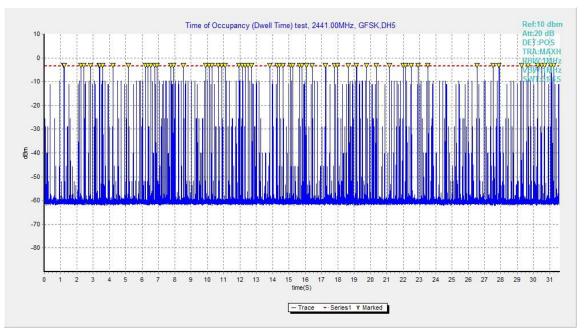


Fig.69. Number of Transmissions Measurement: Channel 39, Packet DH5

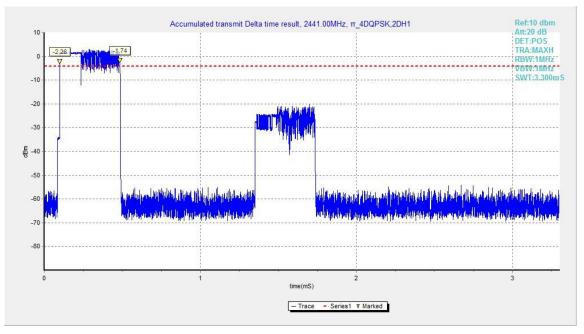


Fig.70. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH1





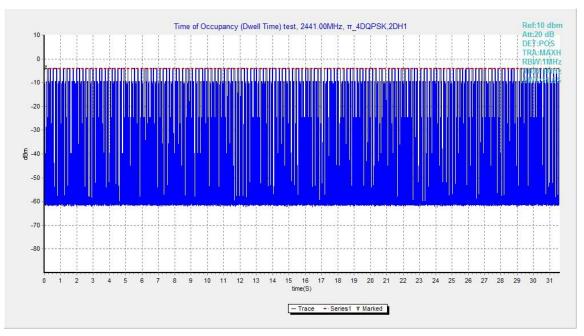


Fig.71. Number of Transmissions Measurement: Channel 39, Packet 2-DH1

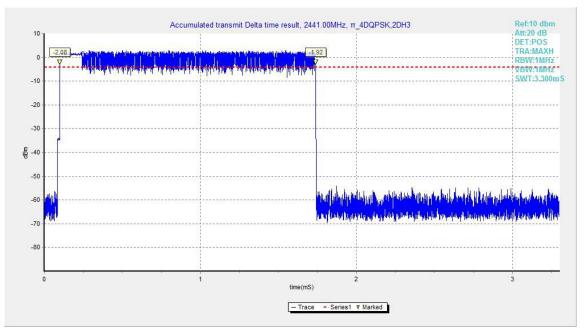


Fig.72. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH3





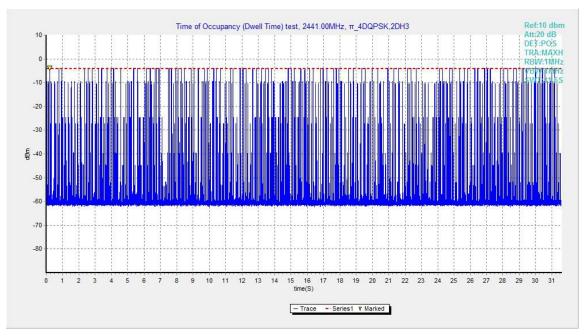


Fig.73. Number of Transmissions Measurement: Channel 39, Packet 2-DH3

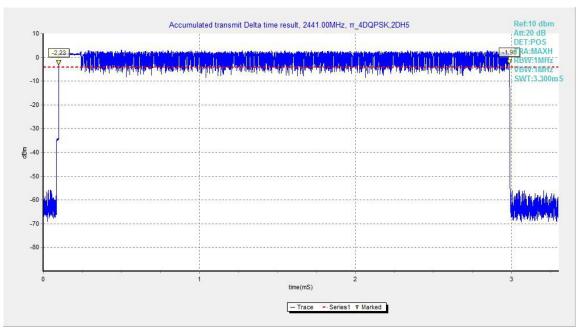


Fig.74. Time of occupancy (Dwell Time): Channel 39, Packet 2-DH5





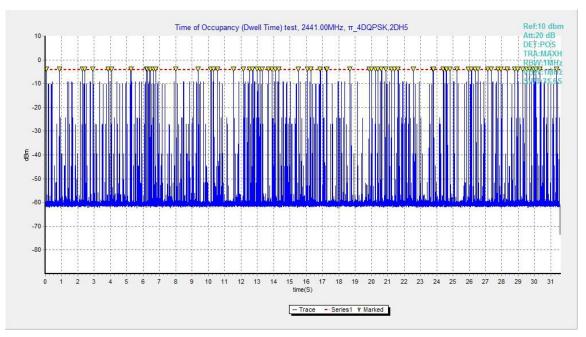


Fig.75. Number of Transmissions Measurement: Channel 39, Packet 2-DH5

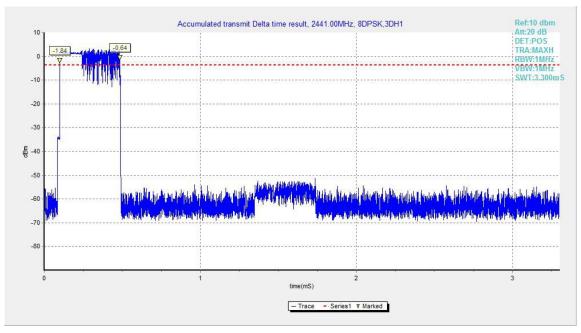


Fig.76. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH1





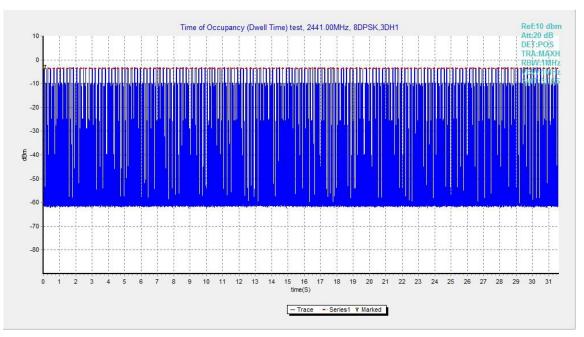


Fig.77. Number of Transmissions Measurement: Channel 39, Packet 3-DH1

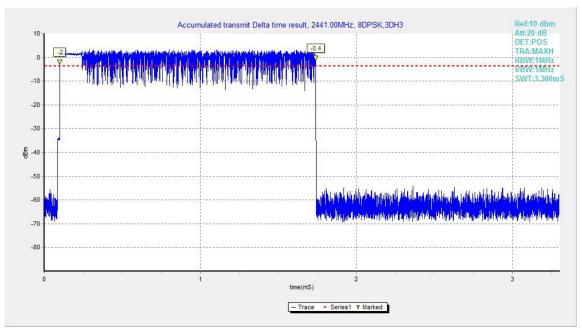


Fig.78. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH3





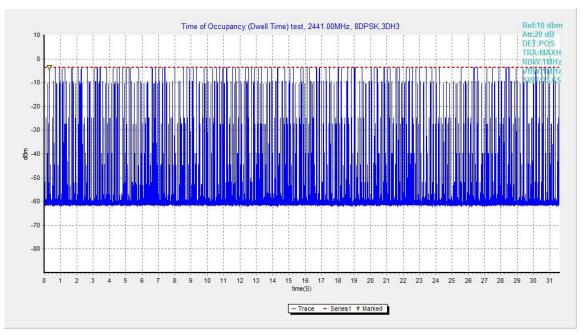


Fig.79. Number of Transmissions Measurement: Channel 39, Packet 3-DH3

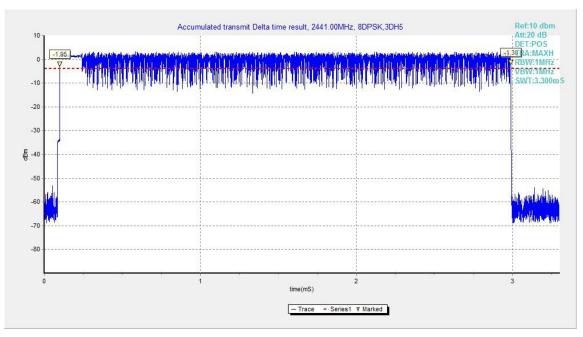


Fig.80. Time of occupancy (Dwell Time): Channel 39, Packet 3-DH5





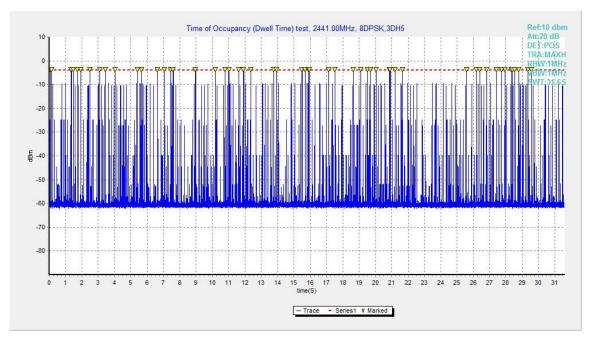


Fig.81. Number of Transmissions Measurement: Channel 39, Packet 3-DH5





# 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 Band	Conclusion	
0	Fig.82 939.00		NA
39	Fig.83	942.75	NA
78	Fig.84	943.50	NA

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

Channel	20dB Band	Conclusion	
0	Fig.85 1287.00		NA
39	Fig.86	1287.00	NA
78	Fig.87	1283.25	NA

#### For 8DPSK

Channel	20dB Band	Conclusion	
0	Fig.88 1296.00		NA
39	Fig.89	1295.25	NA
78	Fig.90	1295.25	NA

**Conclusion: NA** 





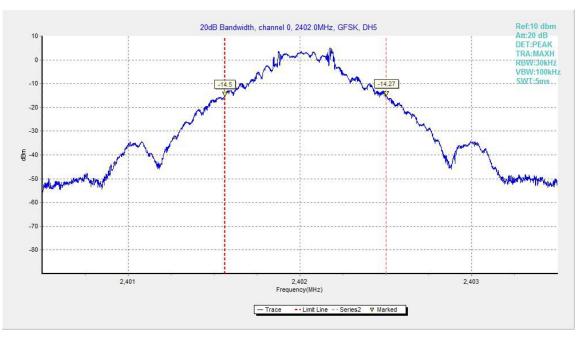


Fig.82. 20dB Bandwidth: GFSK, Channel 0

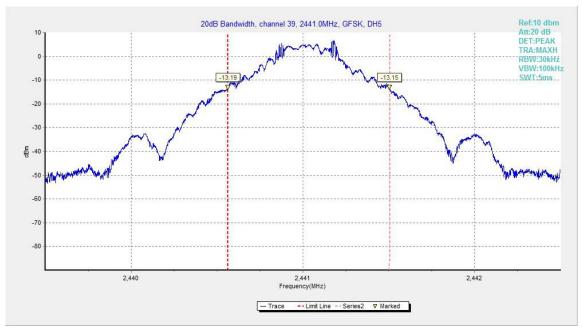


Fig.83. 20dB Bandwidth: GFSK, Channel 39





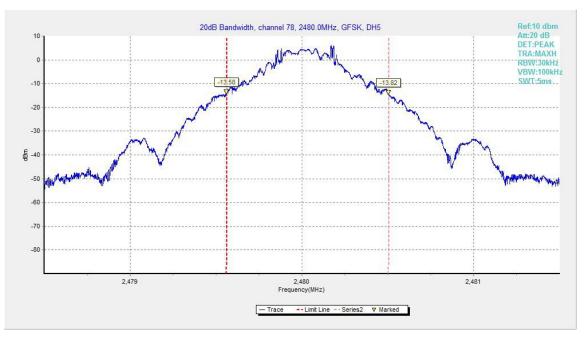


Fig.84. 20dB Bandwidth: GFSK, Channel 78

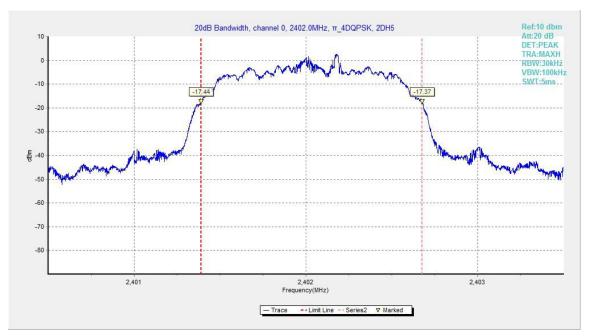


Fig.85. 20dB Bandwidth: π/4 DQPSK, Channel 0





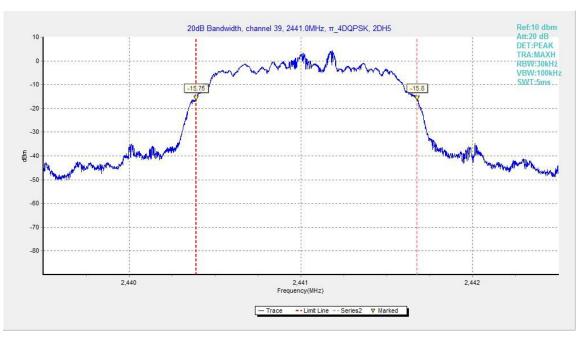


Fig.86. 20dB Bandwidth:  $\pi/4$  DQPSK, Channel 39

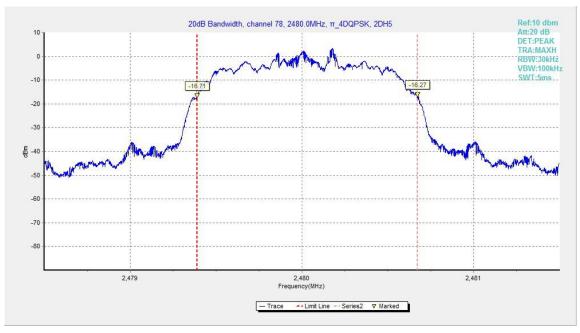


Fig.87. 20dB Bandwidth: π/4 DQPSK, Channel 78





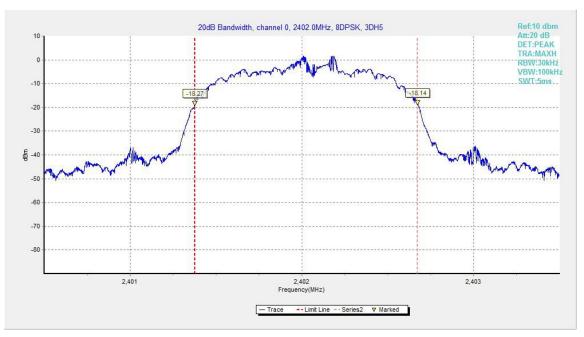


Fig.88. 20dB Bandwidth: 8DPSK, Channel 0

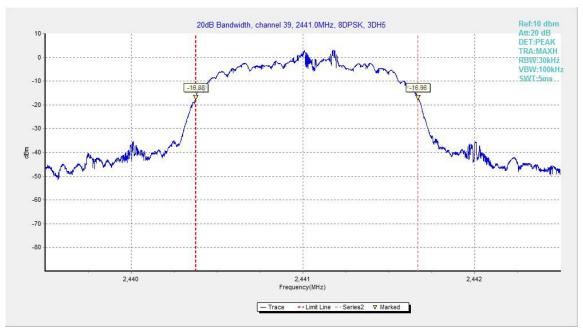


Fig.89. 20dB Bandwidth: 8DPSK, Channel 39





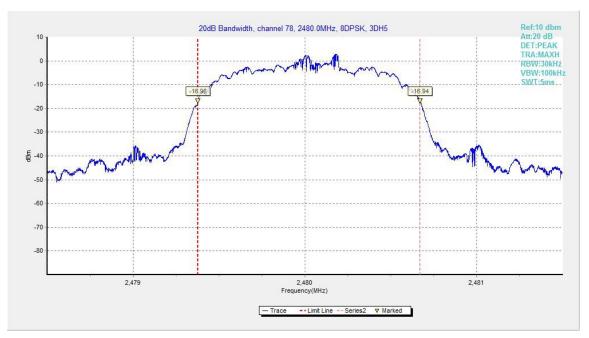


Fig.90. 20dB Bandwidth: 8DPSK, Channel 78





# 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) \* 20dB bandwidth, whichever is greater.

#### **Measurement Limit:**

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

## Measurement Result:

#### For GFSK

Channel	Carrier frequency	Conclusion	
39	Fig.91 989.25		Р
	-		

For π/4 DQPSK

Channel	Carrier frequency	Conclusion	
39	Fig.92	990.75	Р

#### For 8DPSK

Channel	Carrier frequency	Conclusion	
39	Fig.93	993.75	Р

Conclusion: PASS





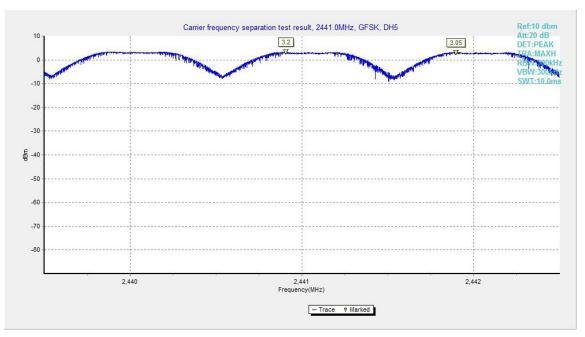


Fig.91. Carrier frequency separation measurement: GFSK, Channel 39

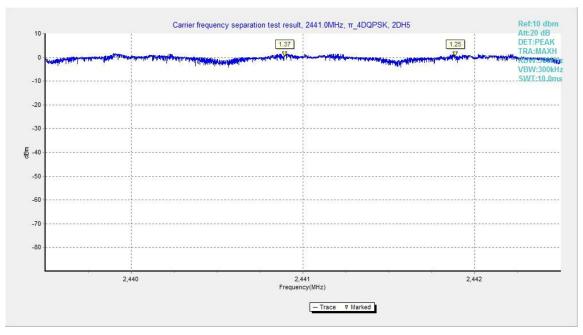


Fig.92. Carrier frequency separation measurement:  $\pi/4$  DQPSK, Channel 39





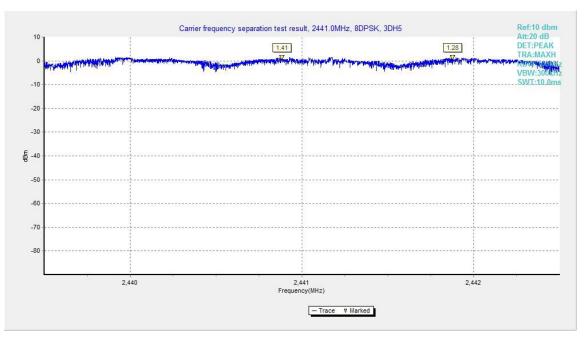


Fig.93. Carrier frequency separation measurement: 8DPSK, Channel 39





# 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 hop	Conclusion	
0~39	Fig.94	Fig.94 70	
40~78	Fig.95	79	F

## Forπ/4 DQPSK

Channel	Number of hop	Number of hopping channels		
0~39	Fig.96	70	Р	
40~78	Fig.97	19		

#### For 8DPSK

Channel	Number of hop	Conclusion	
0~39	Fig.98	70	D
40~78	Fig.99	19	۲°

Conclusion: PASS





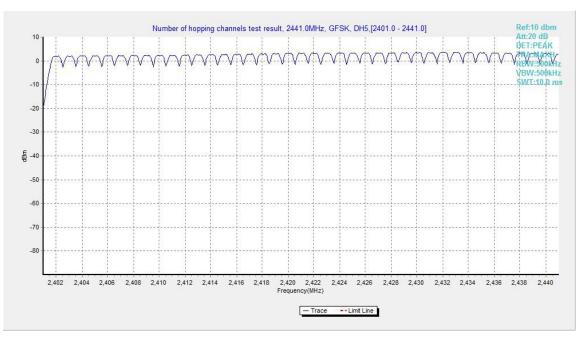


Fig.94. Number of hopping frequencies: GFSK, Channel 0 - 39

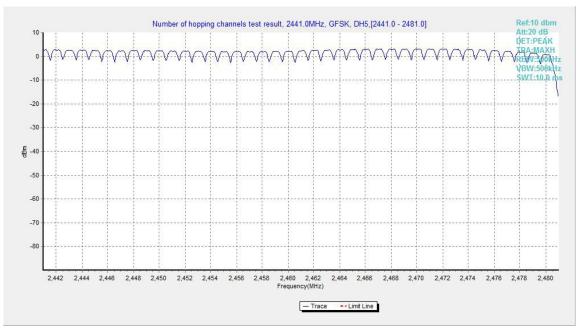


Fig.95. Number of hopping frequencies: GFSK, Channel 40 - 78





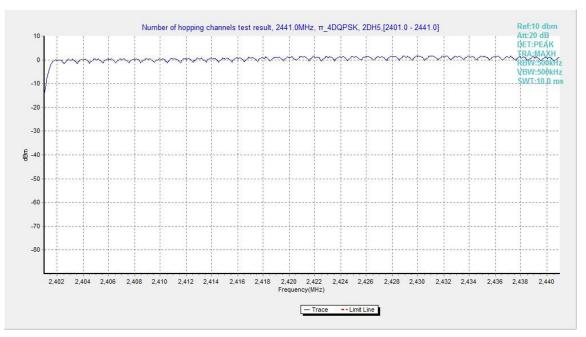


Fig.96. Number of hopping frequencies:  $\pi/4$  DQPSK, Channel 0 - 39

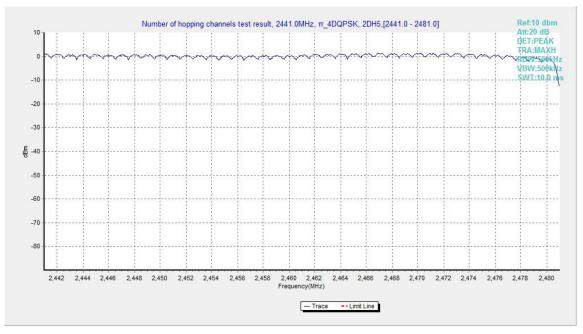


Fig.97. Number of hopping frequencies:  $\pi/4$  DQPSK, Channel 40 - 78





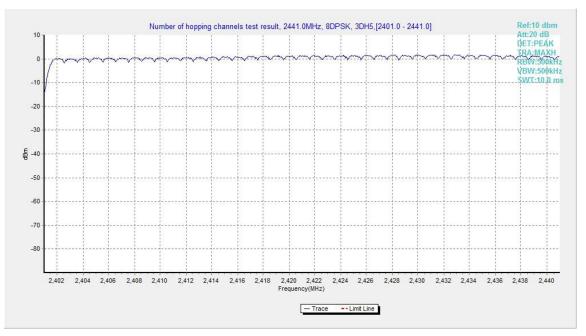


Fig.98. Number of hopping frequencies: 8DPSK, Channel 0 - 39

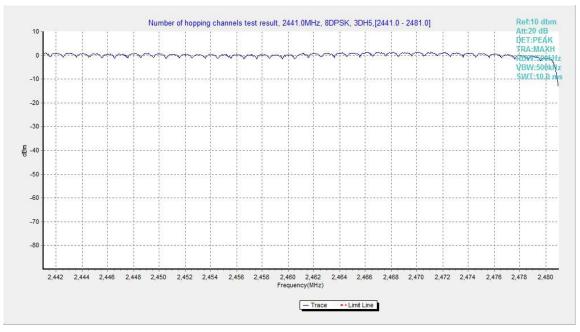


Fig.99. Number of hopping frequencies: 8DPSK, Channel 40 - 78





# 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 re-maximized 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.36 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 (dBµV)	Conclusion
0.15 to 0.5	66 to 56	
0.5 to 5	56	Р
5 to 30	60	
NOTE. The limit deereese linearly wi		

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 (dBµV)	Conclusion
0.15 to 0.5	56 to 46	
0.5 to 5	46	Р
5 to 30	50	
NOTE: The limit decreases linearly wit	h the logarithm of the frequency	in the range 0.15 MHz to
0.5 MHz.		

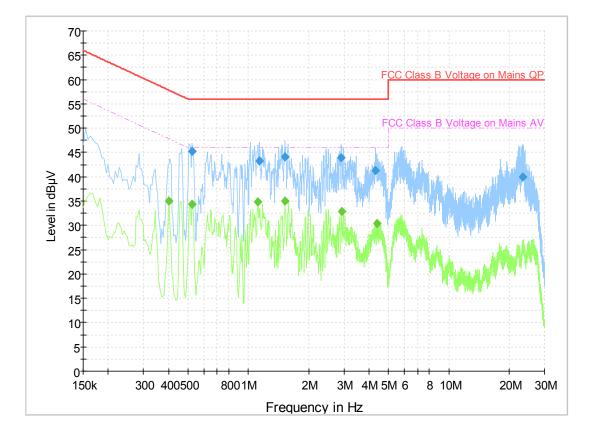
The measurement is made according to ANSI C63.10

# Conclusion: PASS





# Traffic for Set.11:



# Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.523500	45.2	2000.0	9.000	On	L1	19.8	10.8	56.0
1.135500	43.2	2000.0	9.000	On	L1	19.7	12.8	56.0
1.522500	44.1	2000.0	9.000	On	L1	19.6	11.9	56.0
2.913000	43.9	2000.0	9.000	On	L1	19.6	12.1	56.0
4.308000	41.2	2000.0	9.000	On	L1	19.6	14.8	56.0
23.500500	40.0	2000.0	9.000	On	N	20.0	20.0	60.0

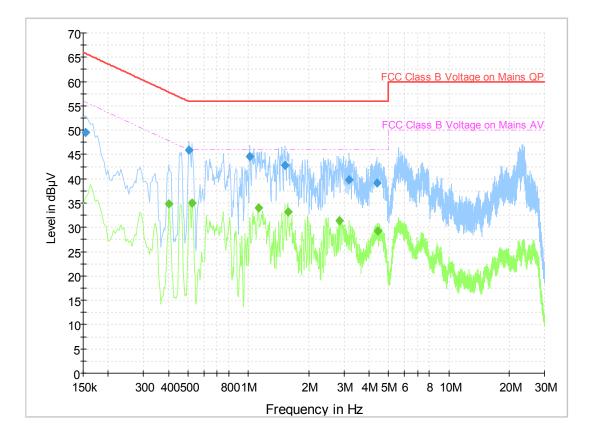
# **Final Result 2**

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.402000	35.0	2000.0	9.000	On	L1	19.8	12.9	47.8
0.523500	34.4	2000.0	9.000	On	L1	19.8	11.6	46.0
1.117500	34.8	2000.0	9.000	On	L1	19.7	11.2	46.0
1.522500	35.0	2000.0	9.000	On	L1	19.6	11.0	46.0
2.917500	32.8	2000.0	9.000	On	L1	19.6	13.2	46.0
4.371000	30.3	2000.0	9.000	On	L1	19.6	15.7	46.0





# Idle for Set.11:



# Final Result 1

Frequency	QuasiPeak	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.154500	49.6	2000.0	9.000	On	L1	29.7	16.2	65.8
0.505500	45.9	2000.0	9.000	On	L1	19.8	10.1	56.0
1.014000	44.6	2000.0	9.000	On	L1	19.7	11.4	56.0
1.522500	42.7	2000.0	9.000	On	L1	19.6	13.3	56.0
3.178500	39.7	2000.0	9.000	On	L1	19.6	16.3	56.0
4.371000	39.1	2000.0	9.000	On	L1	19.6	16.9	56.0

# **Final Result 2**

Frequency	Average	Meas. Time	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	(ms)	(kHz)			(dB)	(dB)	(dBµV)
0.402000	34.8	2000.0	9.000	On	L1	19.8	13.0	47.8
0.523500	35.0	2000.0	9.000	On	L1	19.8	11.0	46.0
1.122000	34.0	2000.0	9.000	On	L1	19.7	12.0	46.0
1.576500	33.2	2000.0	9.000	On	L1	19.6	12.8	46.0
2.845500	31.4	2000.0	9.000	On	L1	19.6	14.6	46.0
4.429500	29.3	2000.0	9.000	On	L1	19.6	16.7	46.0





# **ANNEX B: Accreditation Certificate**



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