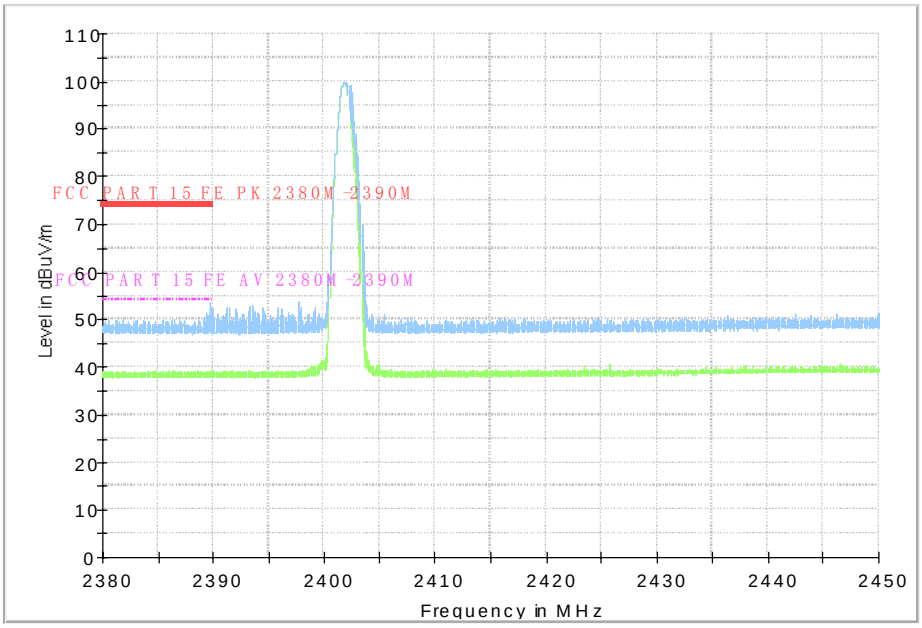

Fig.48 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz , Horizontal Direction)

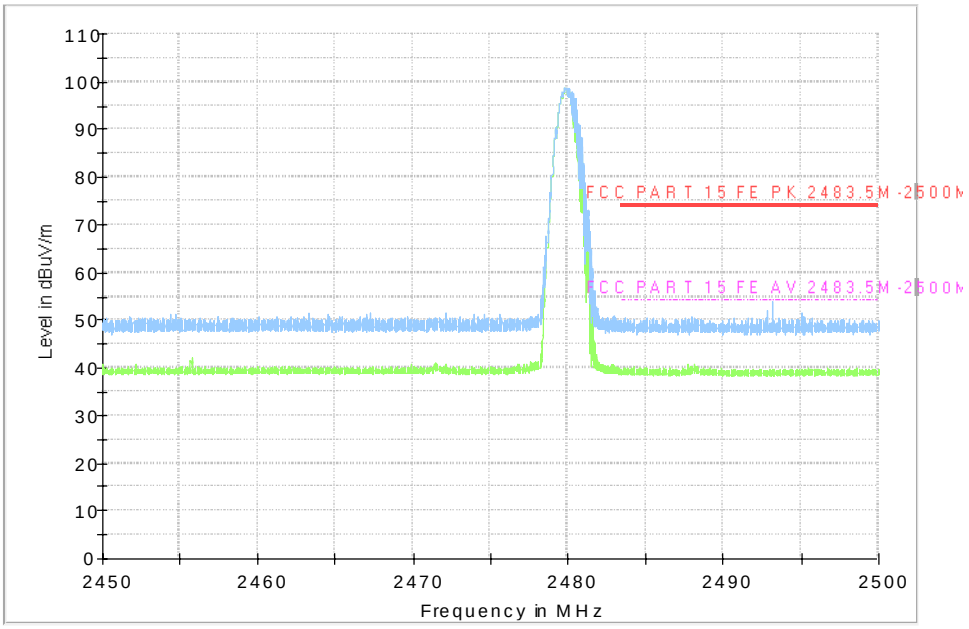

Fig.49 Radiated Band Edges (GFSK, Ch78, 2450GHz~2500GHz , Horizontal Direction)

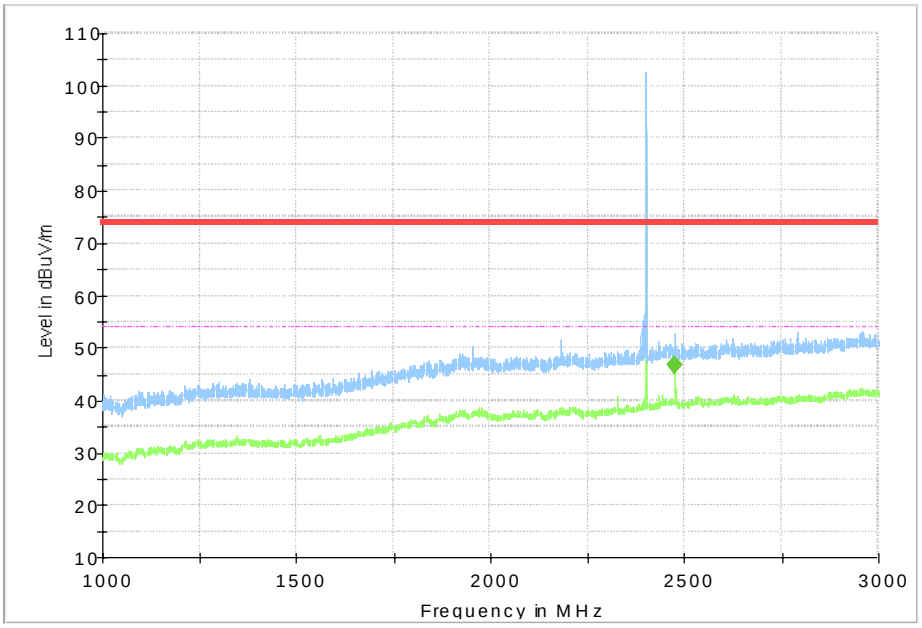

Fig.50 Radiated Spurious Emission (GFSK, Ch0, 1GHz ~3GHz , Vertical Direction)

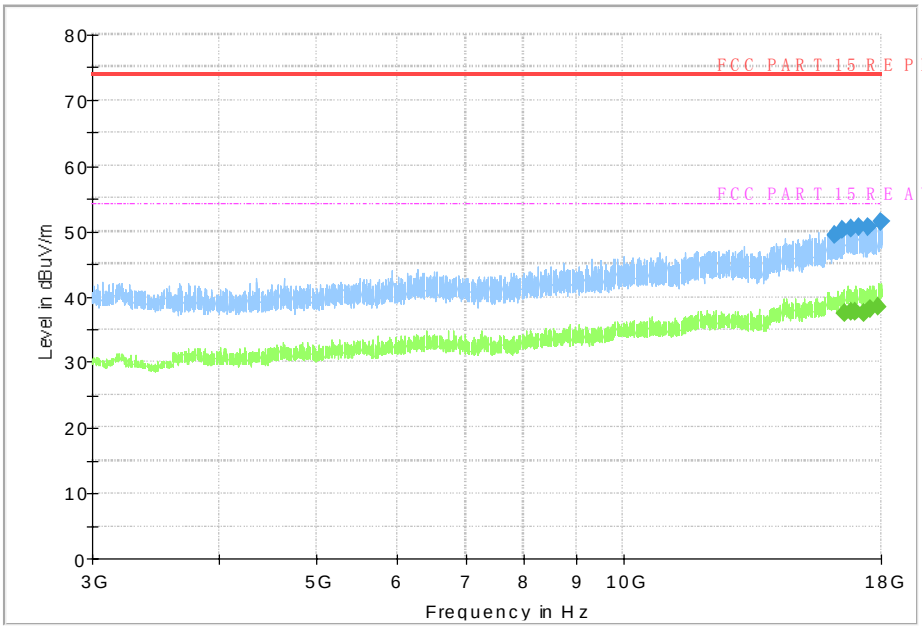

Fig.51 Radiated Spurious Emission (GFSK, Ch0, 3GHz ~18GHz , Vertical Direction)

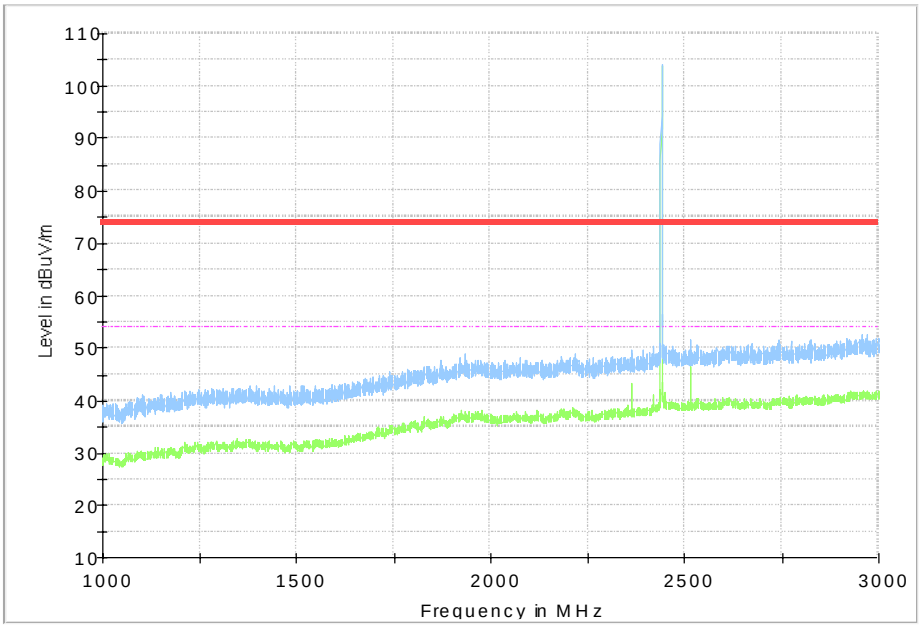

Fig.52 Radiated Spurious Emission (GFSK, Ch39, 1GHz ~3GHz , Vertical Direction)

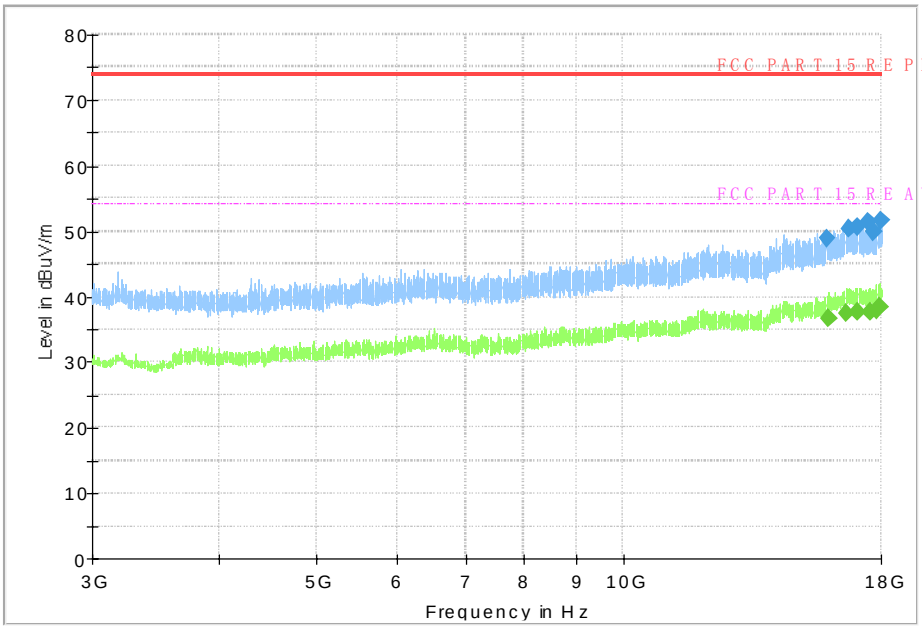

Fig.53 Radiated Spurious Emission (GFSK, Ch39, 3GHz ~18GHz , Vertical Direction)

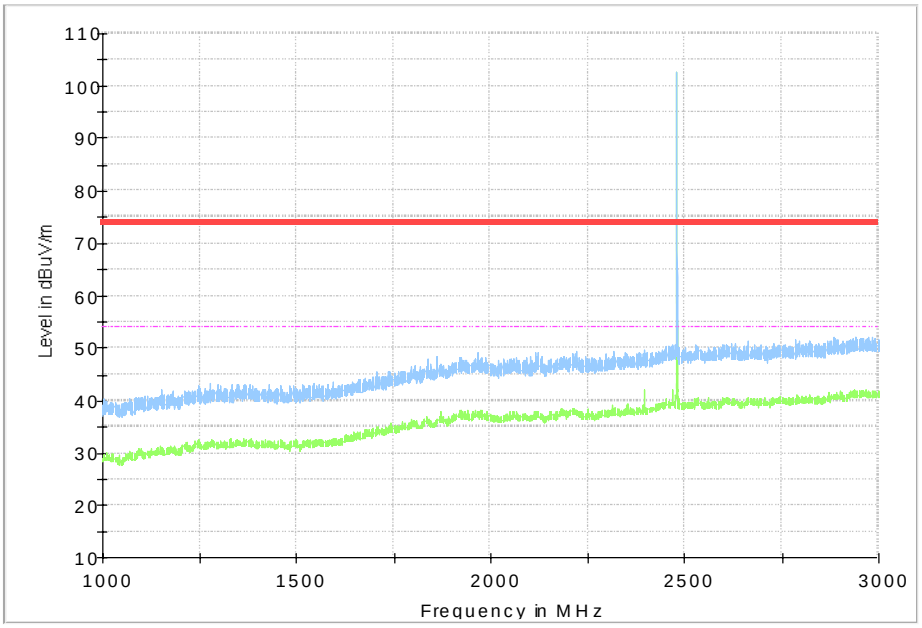

Fig.54 Radiated Spurious Emission (GFSK, Ch78, 1GHz ~3GHz , Vertical Direction)

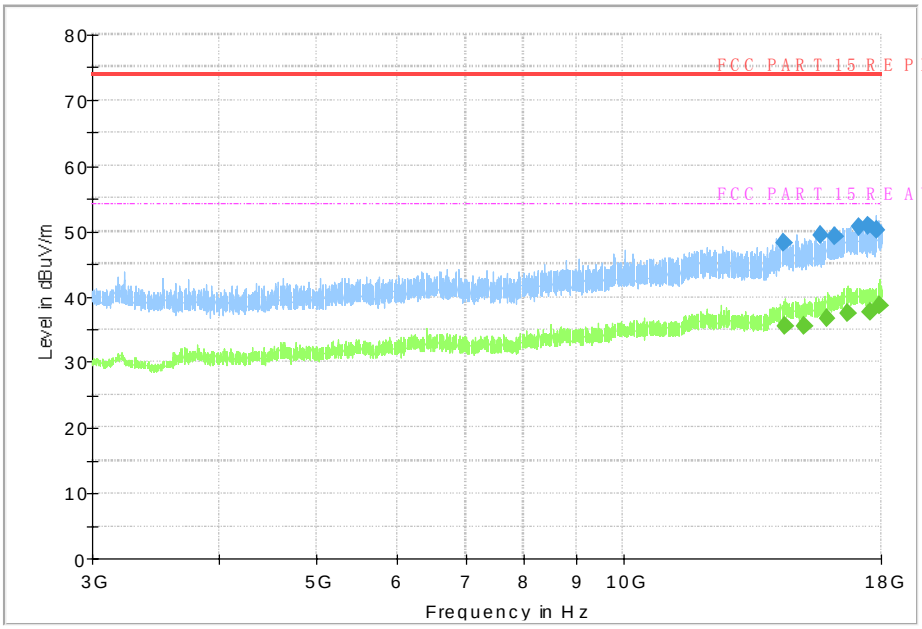

Fig.55 Radiated Spurious Emission (GFSK, Ch78, 3GHz ~18GHz , Vertical Direction)

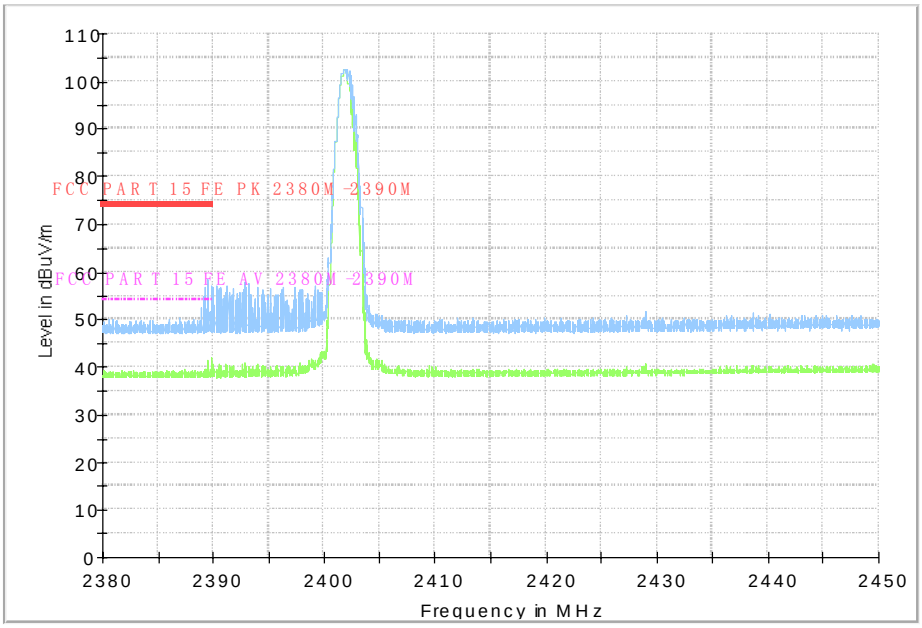

Fig.56 Radiated Band Edges (GFSK, Ch0, 2380GHz~2450GHz ,Vertical Direction)

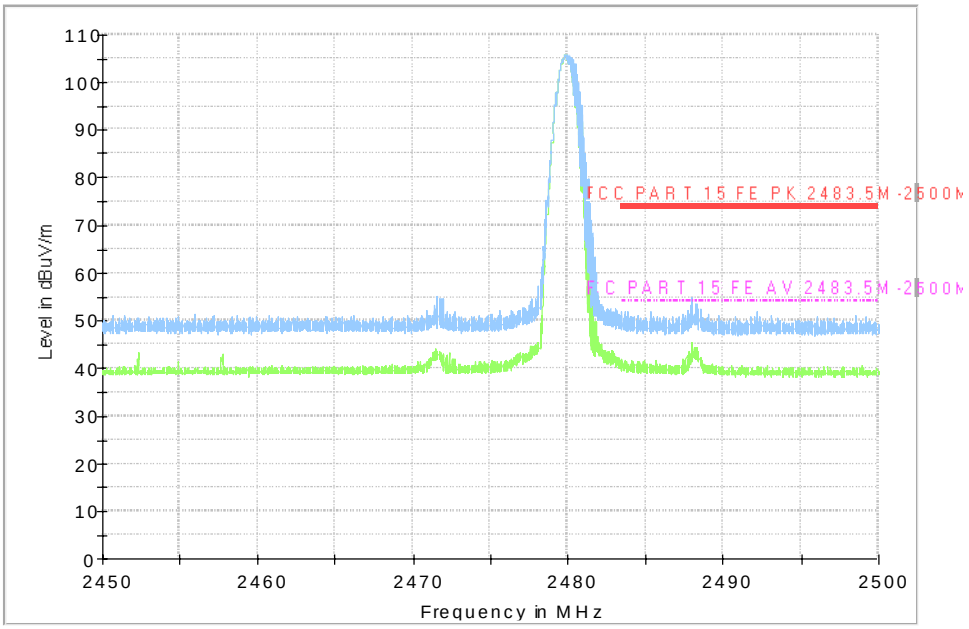

Fig.57 Radiated Band Edges (GFSK, Ch78, 2450GHz~2500GHz, Vertical Direction)

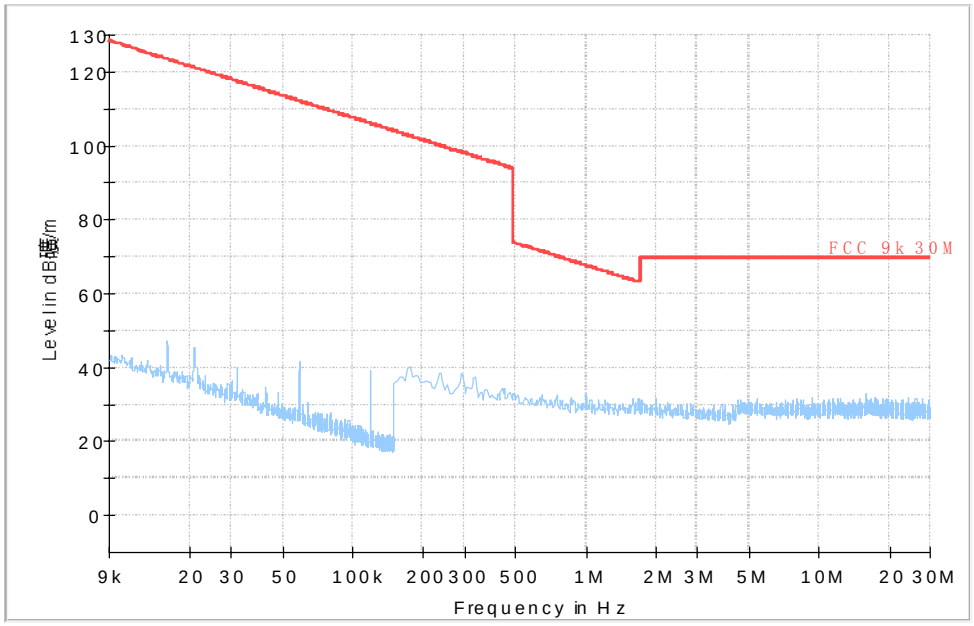

Fig.58 Radiated Spurious Emission (GFSK, All Channels, 9 kHz-30 MHz)

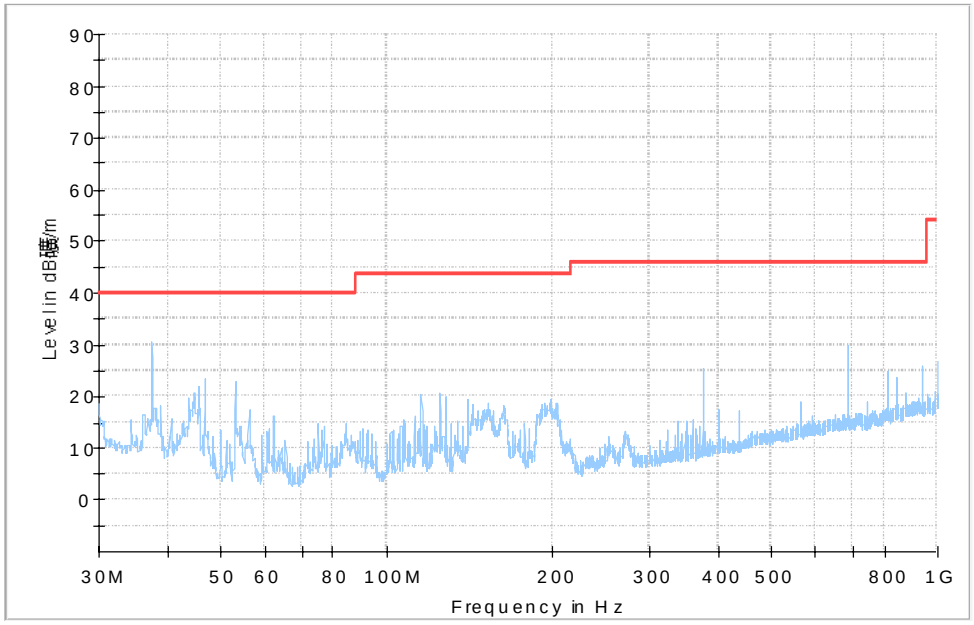

Fig.59 Radiated Spurious Emission (GFSK, All Channels, 30 MHz ~1 GHz)

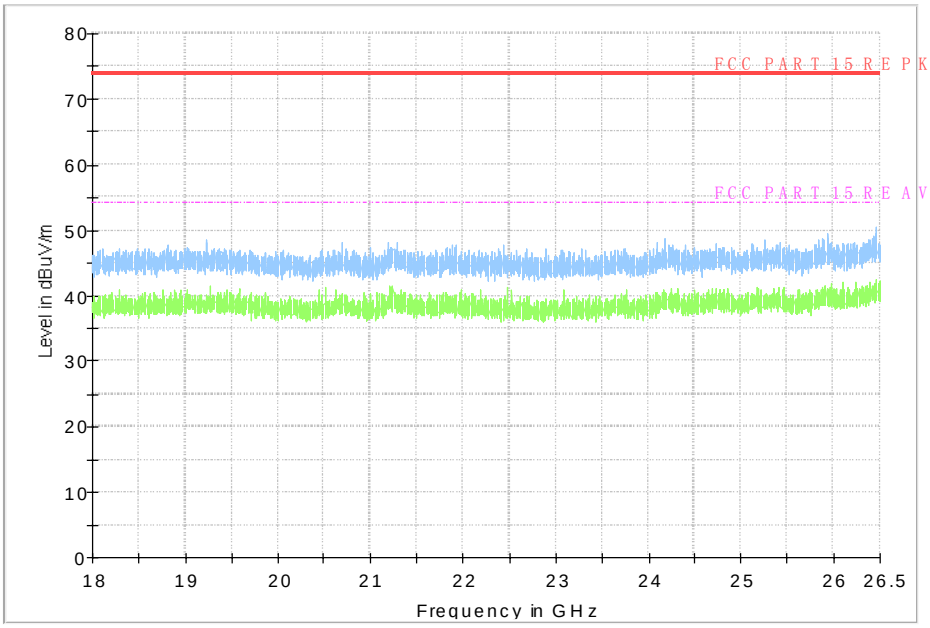

Fig.60 Radiated Spurious Emission (GFSK, All Channels, 18 GHz~ 26.5 GHz)

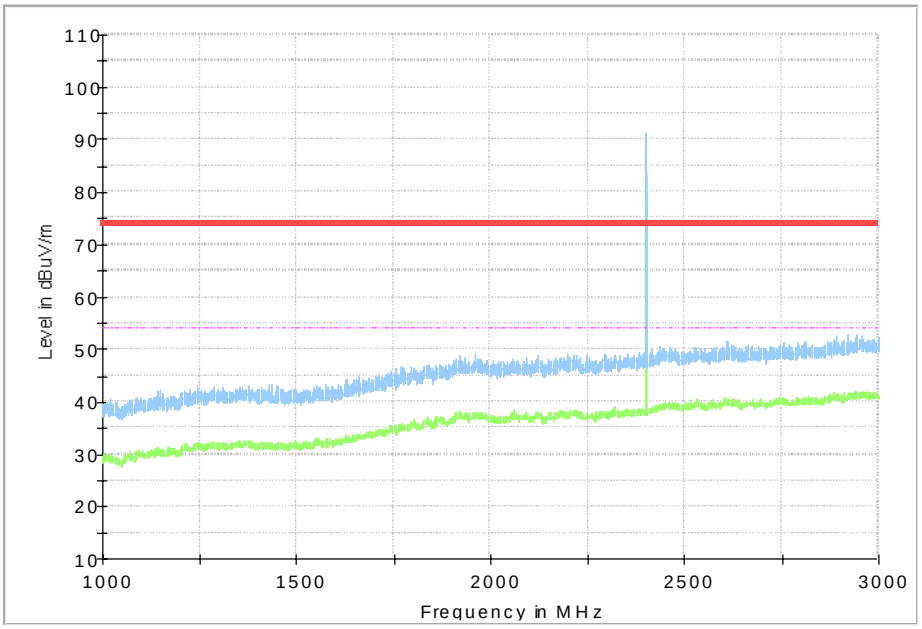

Fig.61 Radiated Spurious Emission (π /4 DQPSK, Ch0, 1 GHz ~3 GHz, Horizontal Direction)

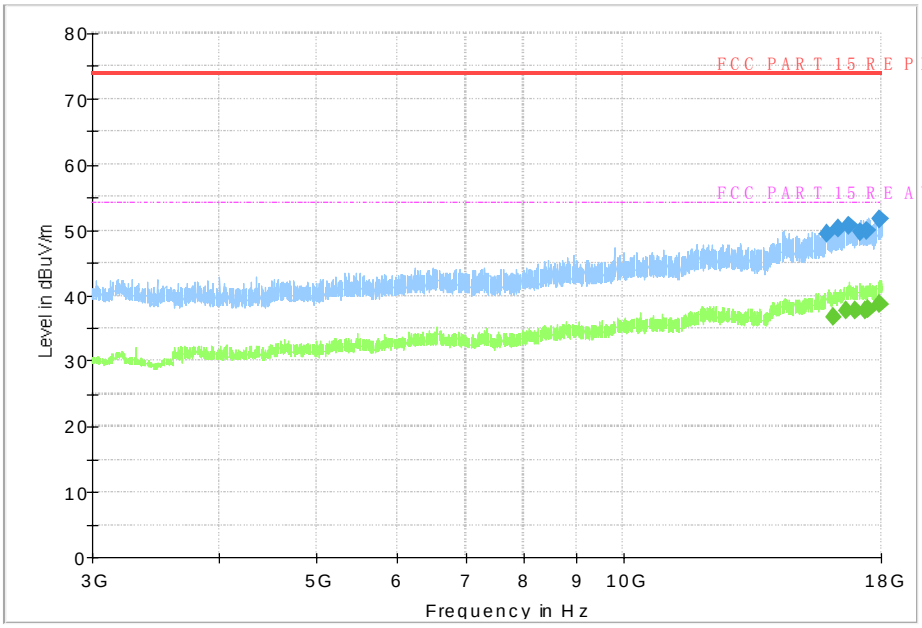

Fig.62 Radiated Spurious Emission (π /4 DQPSK, Ch0, 3GHz ~18 GHz, Horizontal Direction)

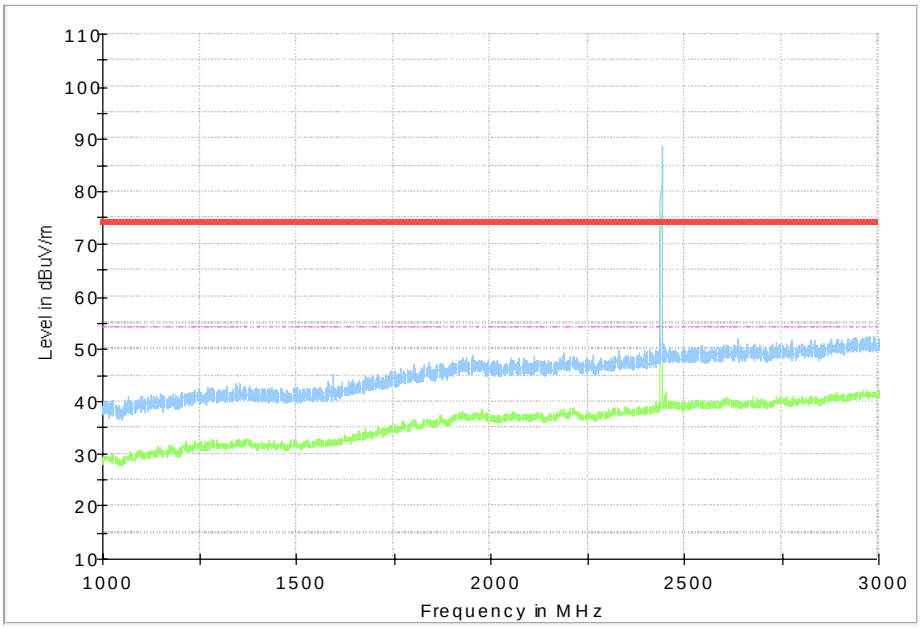

Fig.63 Radiated Spurious Emission (π /4 DQPSK, Ch39, 1GHz ~3 GHz ,Horizontal Direction)

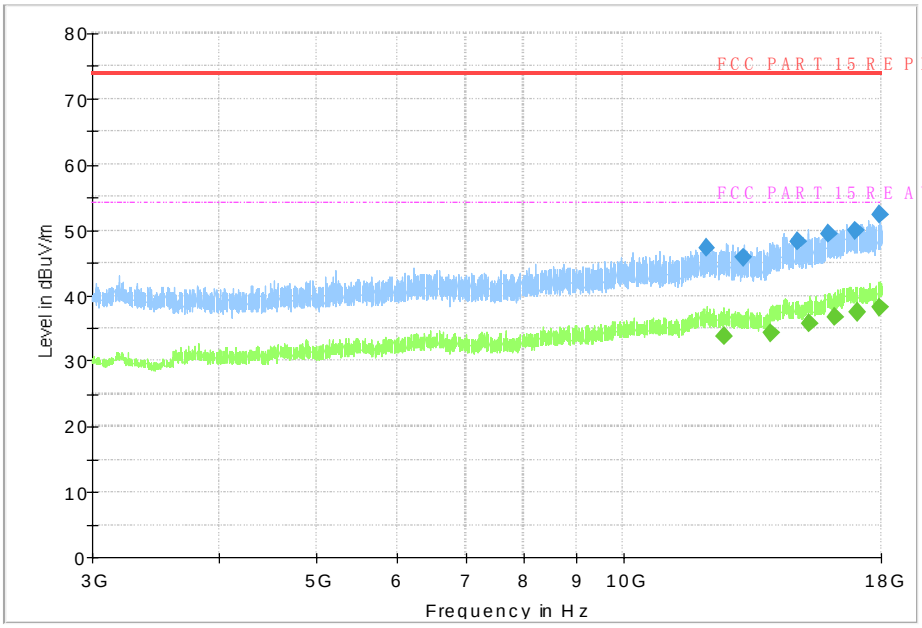

Fig.64 Radiated Spurious Emission (π /4 DQPSK, Ch39, 3GHz ~18 GHz ,Horizontal Direction)

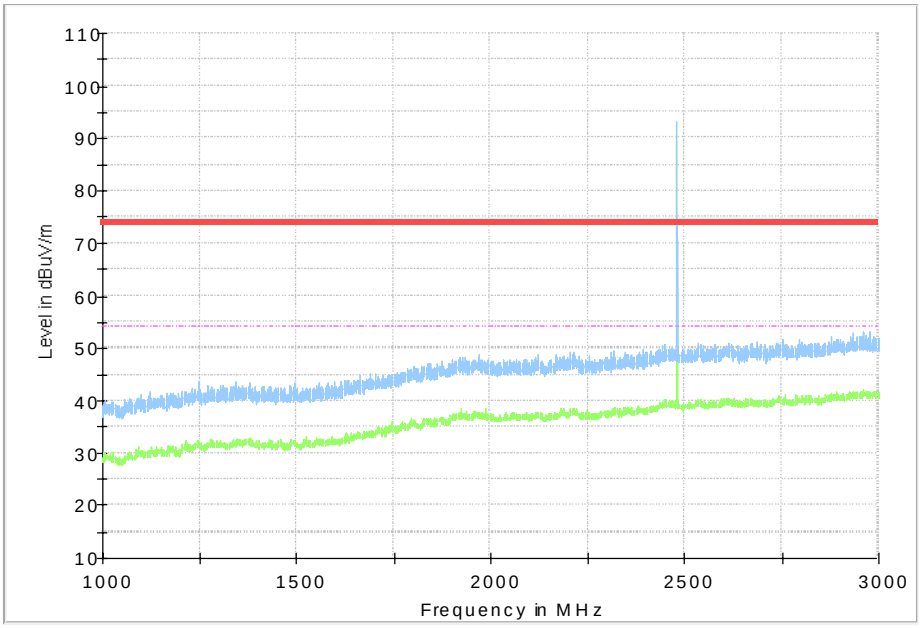

Fig.65 Radiated Spurious Emission (π /4 DQPSK, Ch78, 1GHz ~3 GHz ,Horizontal Direction)

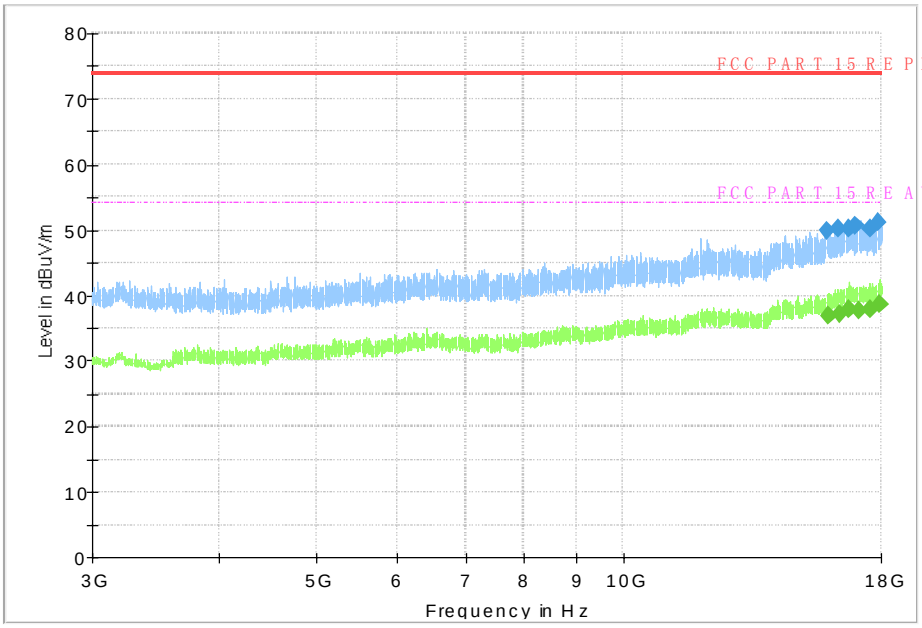

Fig.66 Radiated Spurious Emission (π /4 DQPSK, Ch78, 3GHz ~18GHz , Horizontal Direction)

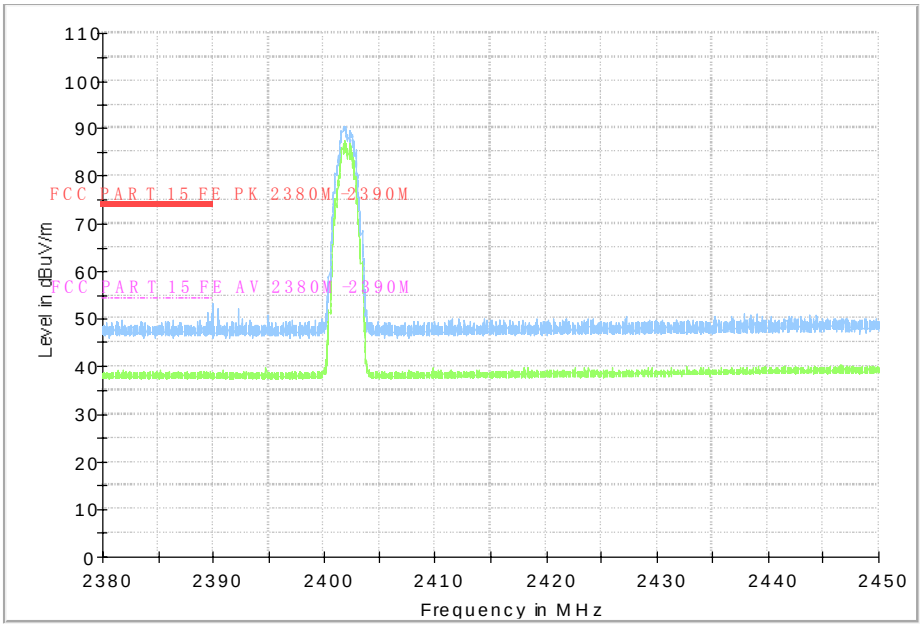

Fig.67 Radiated Band Edges (π /4 DQPSK, Ch0, 2380GHz~2450GHz , Horizontal Direction)

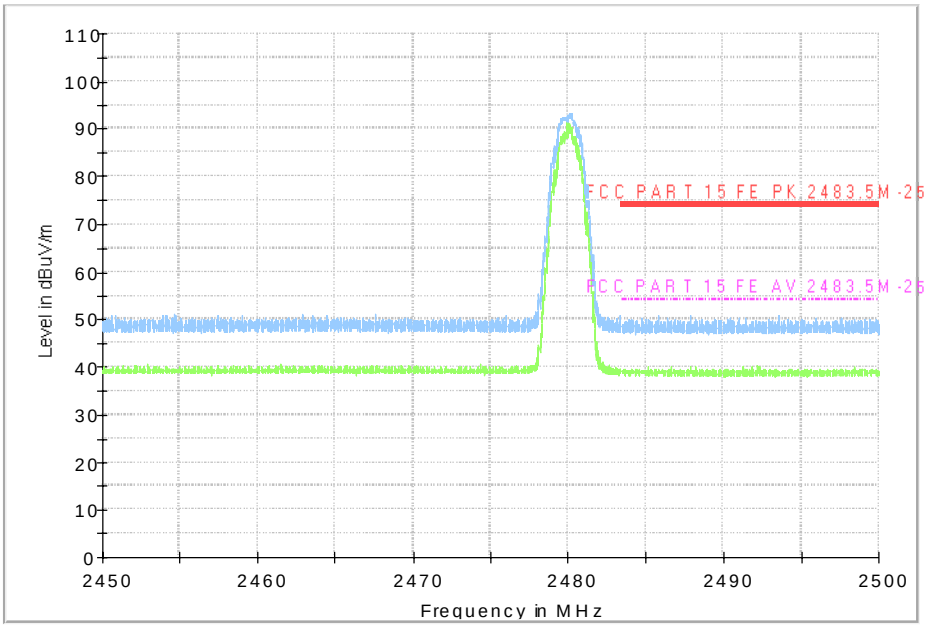

Fig.68 Radiated Band Edges (π/4 DQPSK, Ch78, 2450GHz~2500GHz , Horizontal Direction)

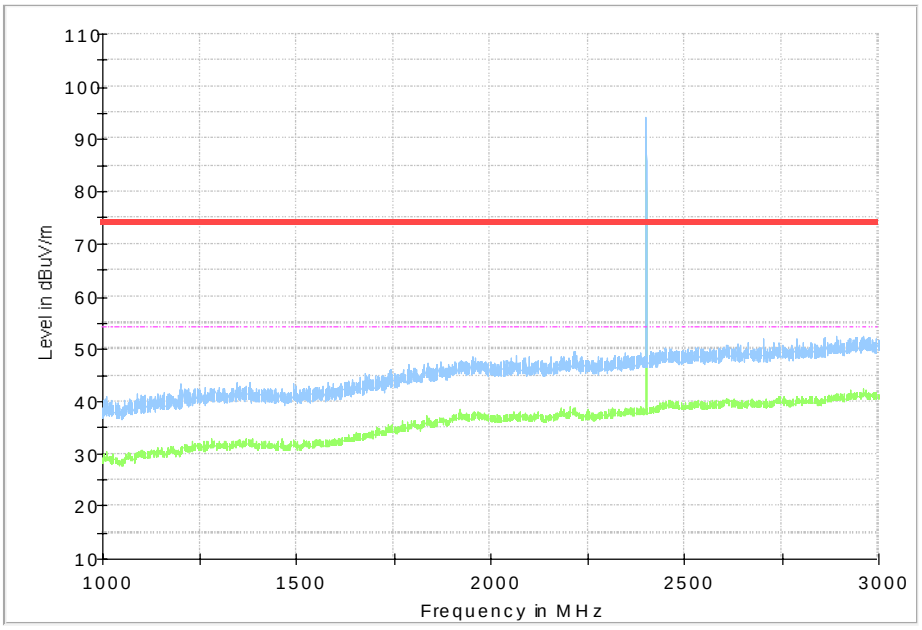

Fig.69 Radiated Spurious Emission (π/4 DQPSK, Ch0, 1GHz ~3GHz , Vertical Direction)

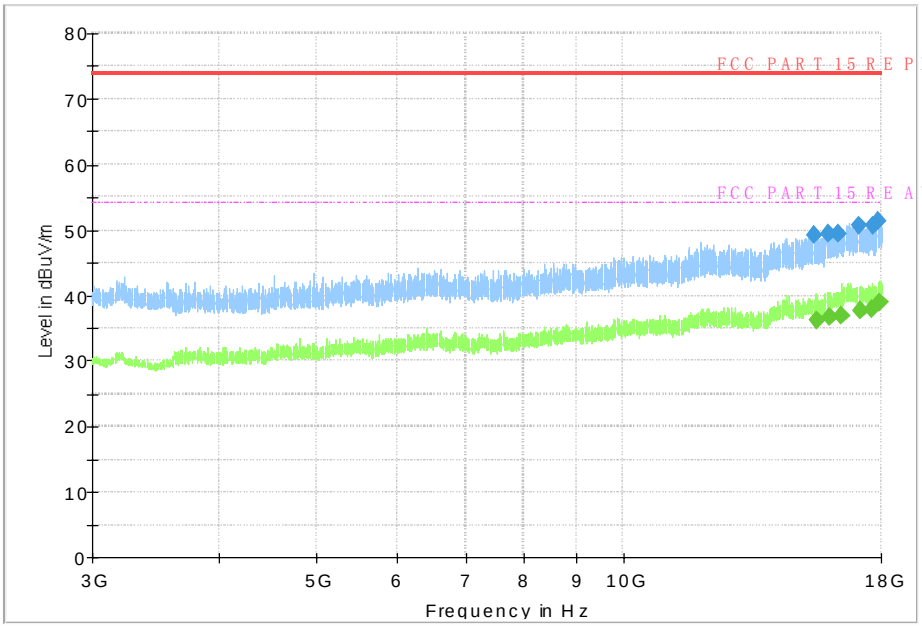

Fig.70 Radiated Spurious Emission (π /4 DQPSK, Ch0, 3GHz ~18GHz , Vertical Direction)

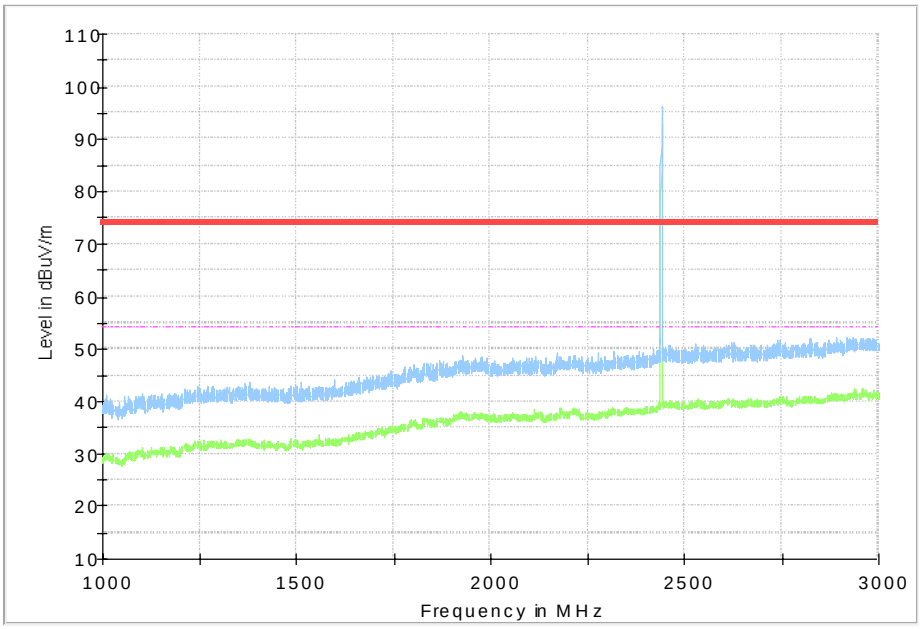

Fig.71 Radiated Spurious Emission (π /4 DQPSK, Ch39, 1GHz ~3GHz , Vertical Direction)

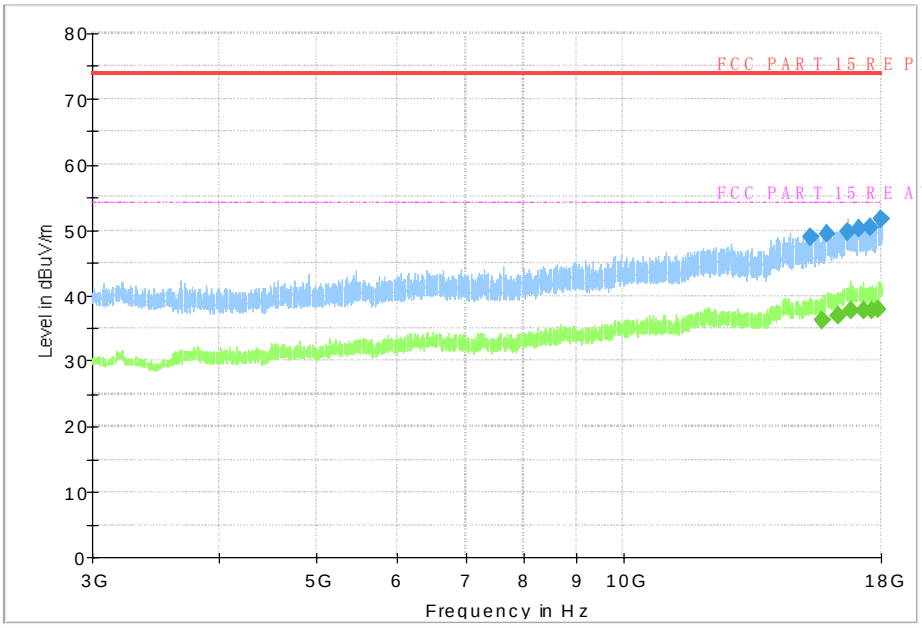

Fig.72 Radiated Spurious Emission (π/4 DQPSK, Ch39, 3GHz ~18GHz , Vertical Direction)

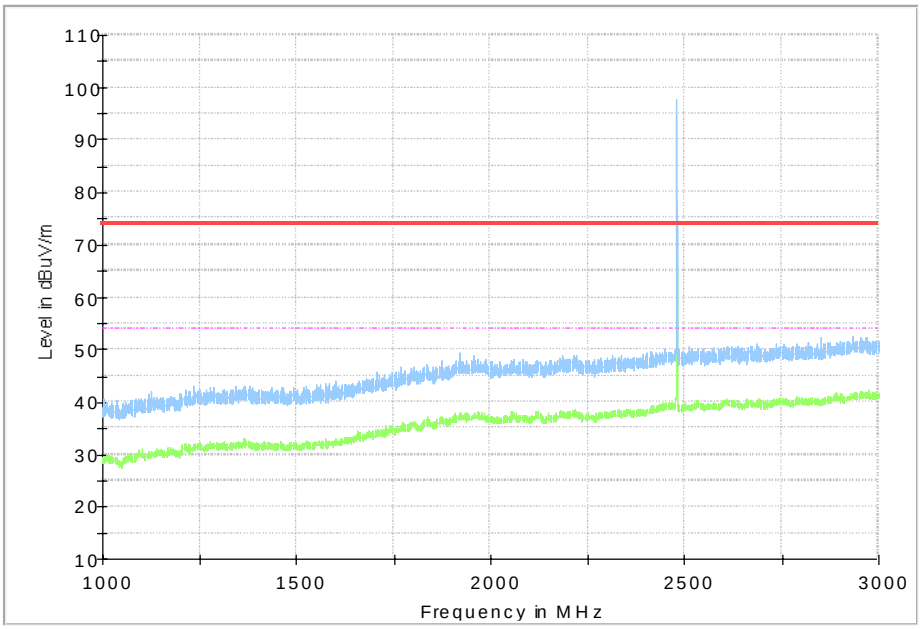

Fig.73 Radiated Spurious Emission (π/4 DQPSK, Ch78, 1GHz ~3GHz , Vertical Direction)

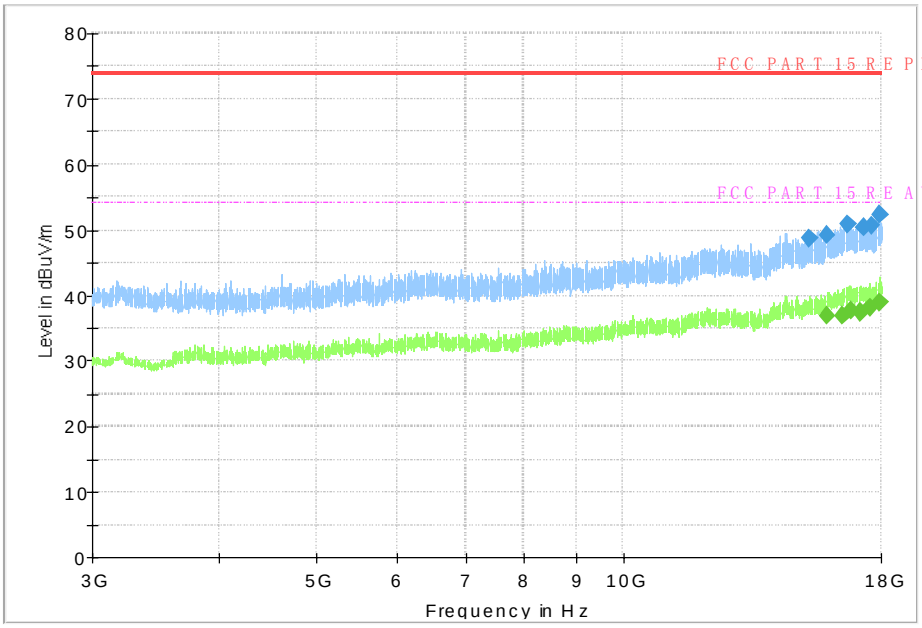

Fig.74 Radiated Spurious Emission (π/4 DQPSK, Ch78, 3GHz ~18GHz , Vertical Direction)

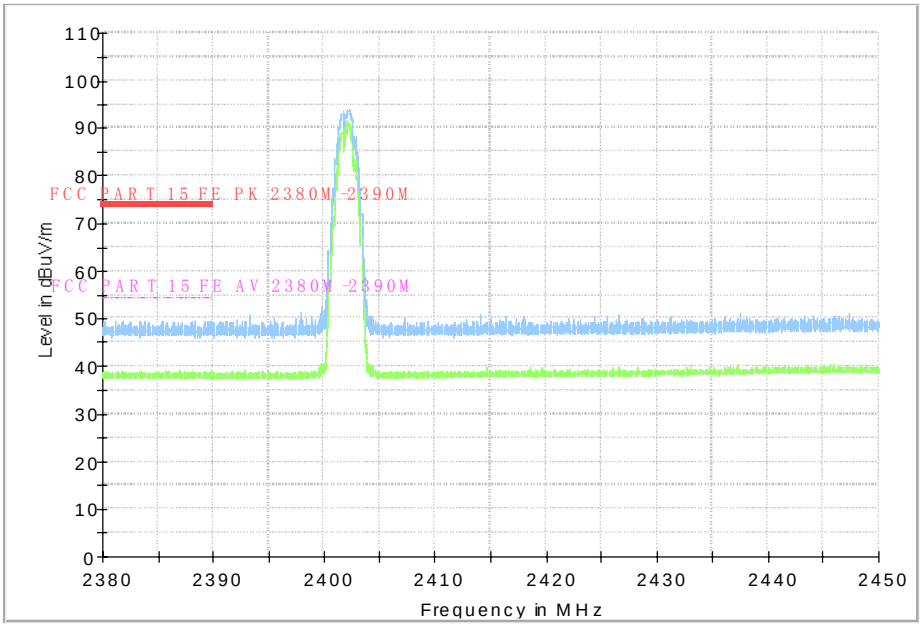

Fig.75 Radiated Band Edges (π/4 DQPSK, Ch0, 2380GHz~2450GHz ,Vertical Direction)

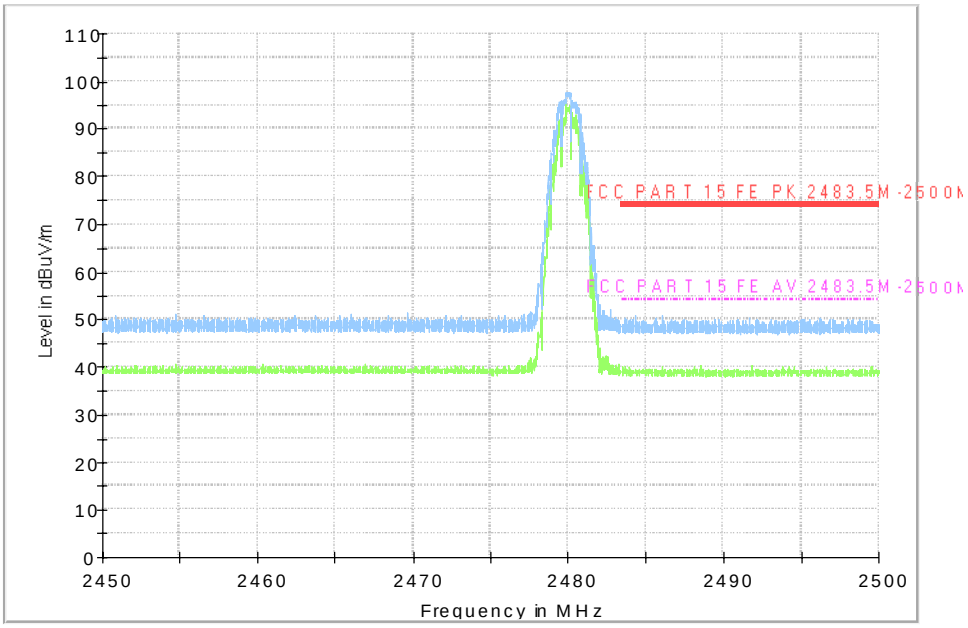

Fig.76 Radiated Band Edges (π/4 DQPSK, Ch78, 2450GHz~2500GHz, Vertical Direction)

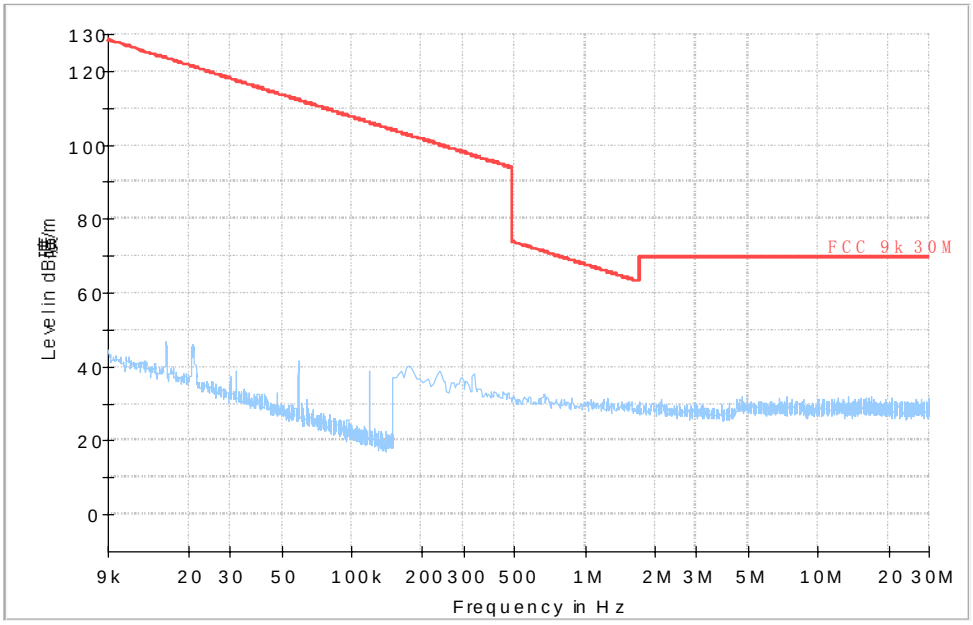

Fig.77 Radiated Spurious Emission (π/4 DQPSK, All Channels, 9 kHz-30 MHz)

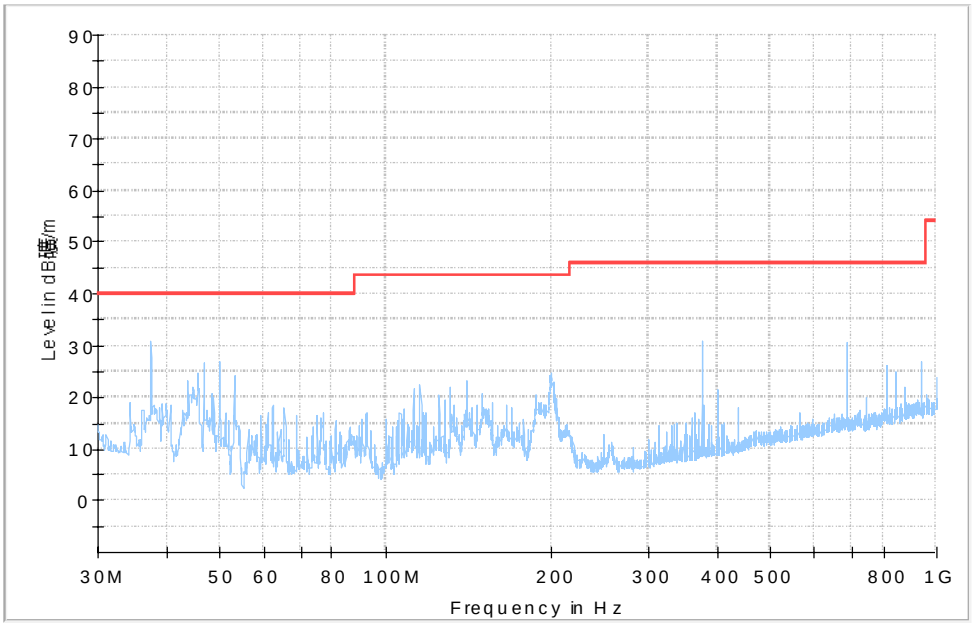

Fig.78 Radiated Spurious Emission (π /4 DQPSK, All Channels, 30 MHz ~1 GHz)

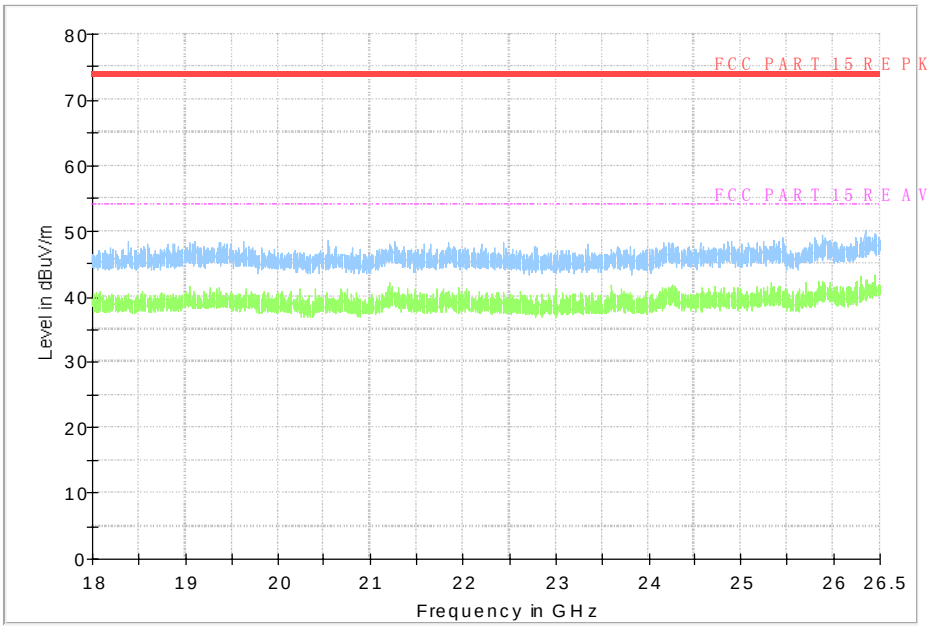

Fig.79 Radiated Spurious Emission (π /4 DQPSK, All Channels, 18 GHz~ 26.5 GHz)

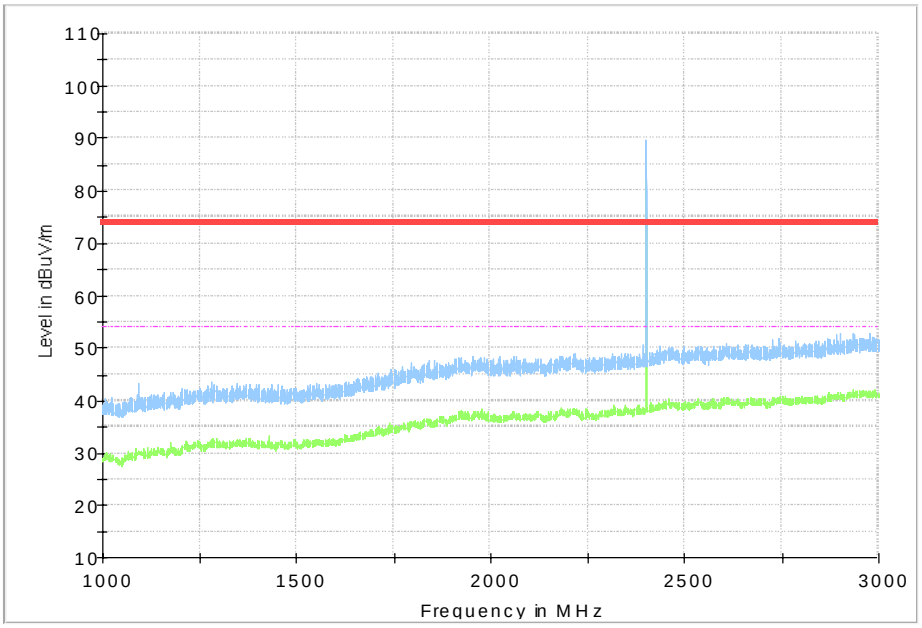

Fig.80 Radiated Spurious Emission (8DPSK, Ch0, 1 GHz ~3 GHz, Horizontal Direction)

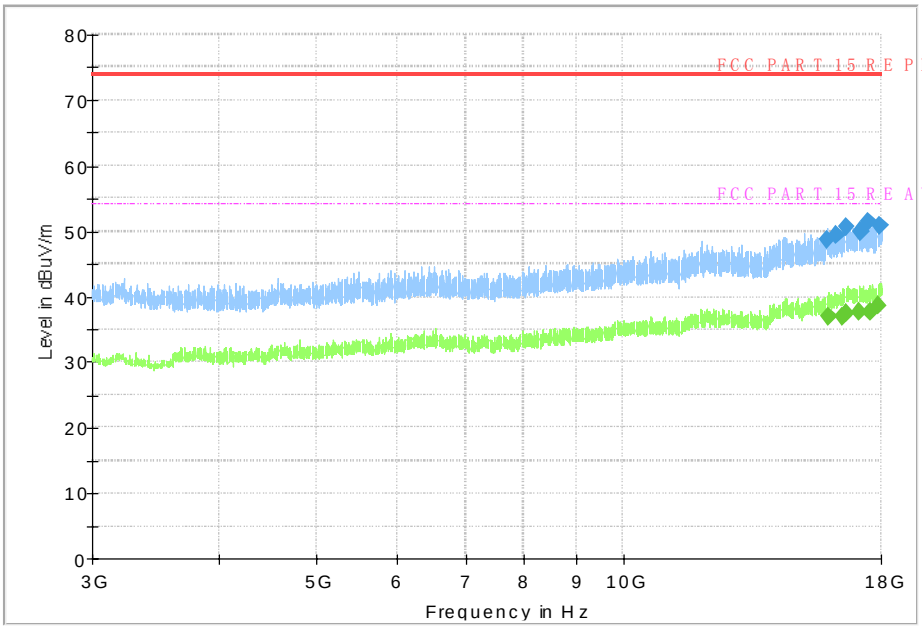

Fig.81 Radiated Spurious Emission (8DPSK, Ch0, 3GHz ~18 GHz,Horizontal Direction)

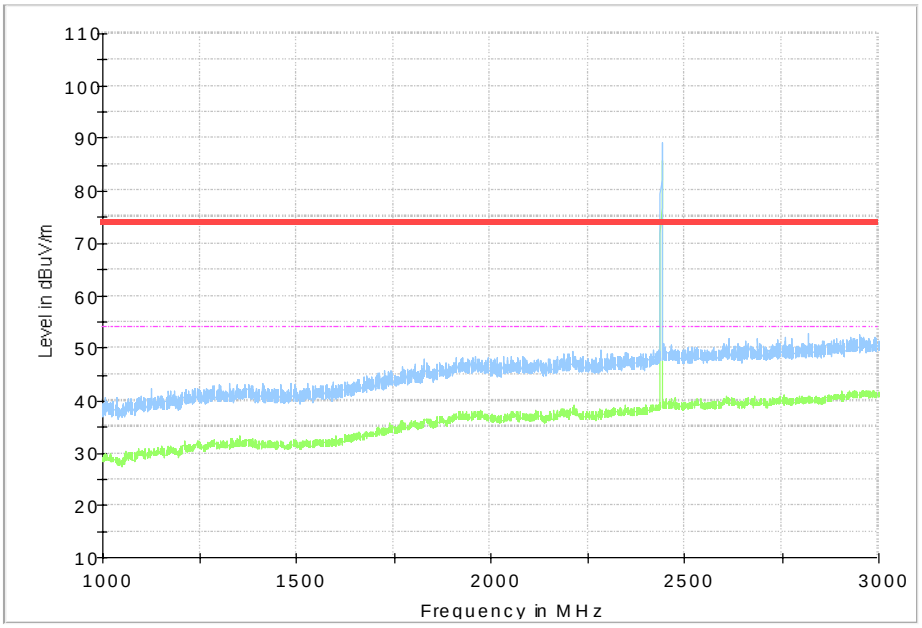

Fig.82 Radiated Spurious Emission (8DPSK, Ch39, 1GHz ~3 GHz ,Horizontal Direction)

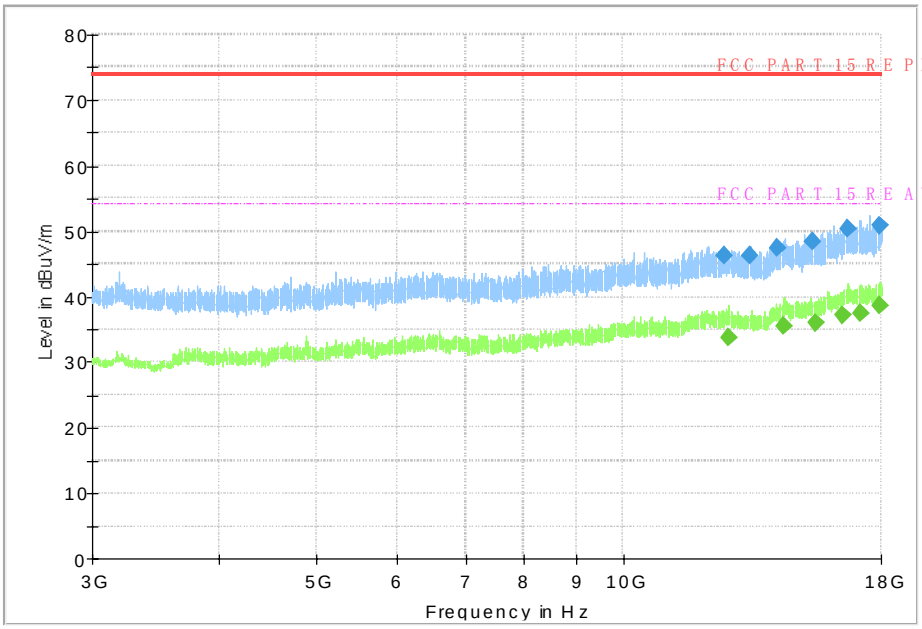

Fig.83 Radiated Spurious Emission (8DPSK, Ch39, 3GHz ~18 GHz ,Horizontal Direction)

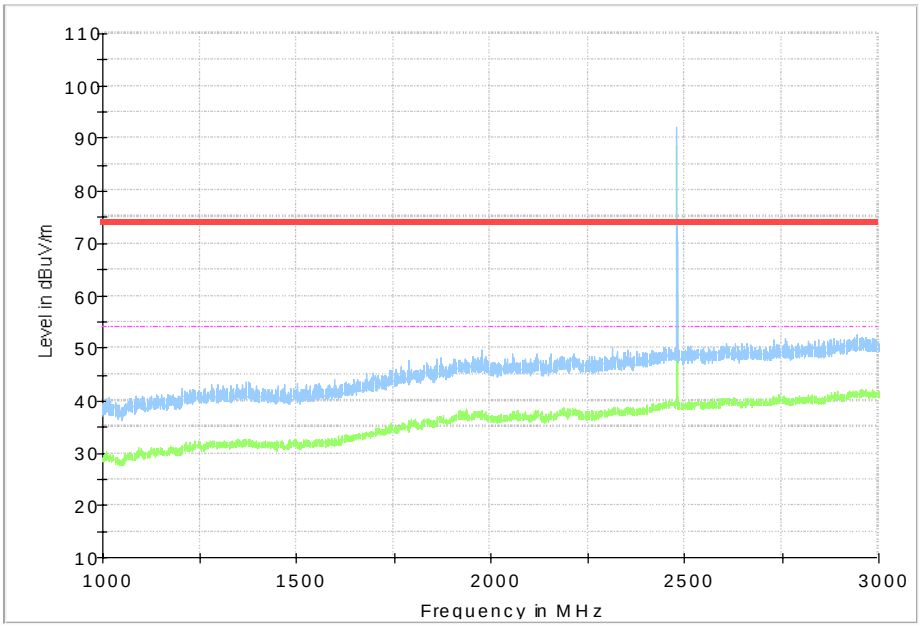

Fig.84 Radiated Spurious Emission (8DPSK, Ch78, 1GHz ~3 GHz ,Horizontal Direction)

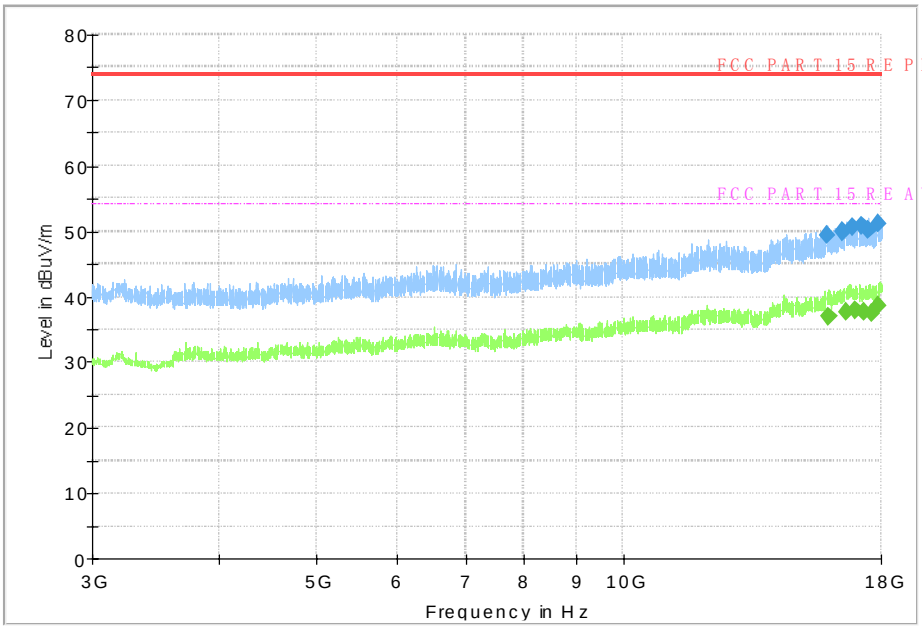

Fig.85 Radiated Spurious Emission (8DPSK, Ch78, 3GHz ~18GHz , Horizontal Direction)

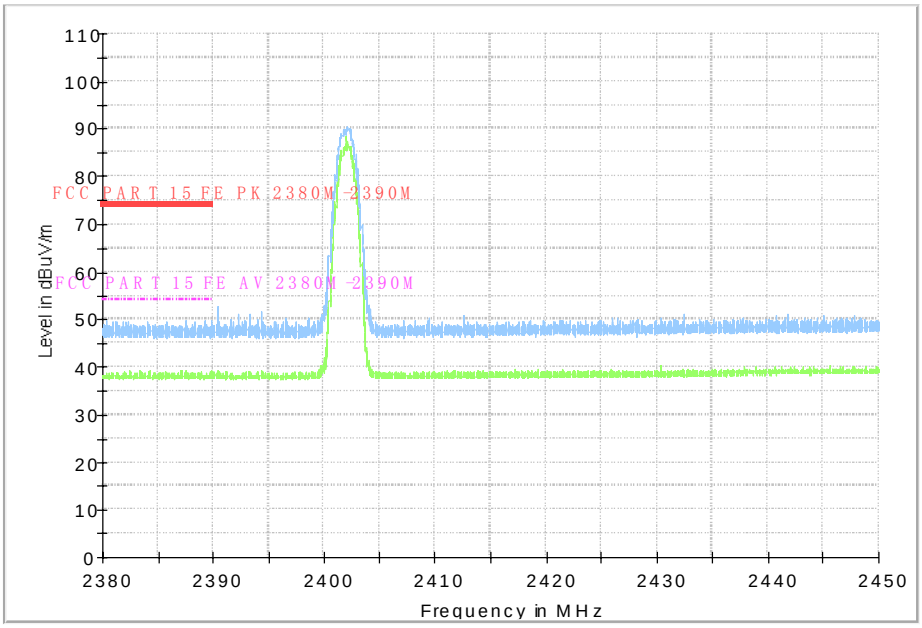

Fig.86 Radiated Band Edges (8DPSK, Ch0, 2380GHz~2450GHz , Horizontal Direction)

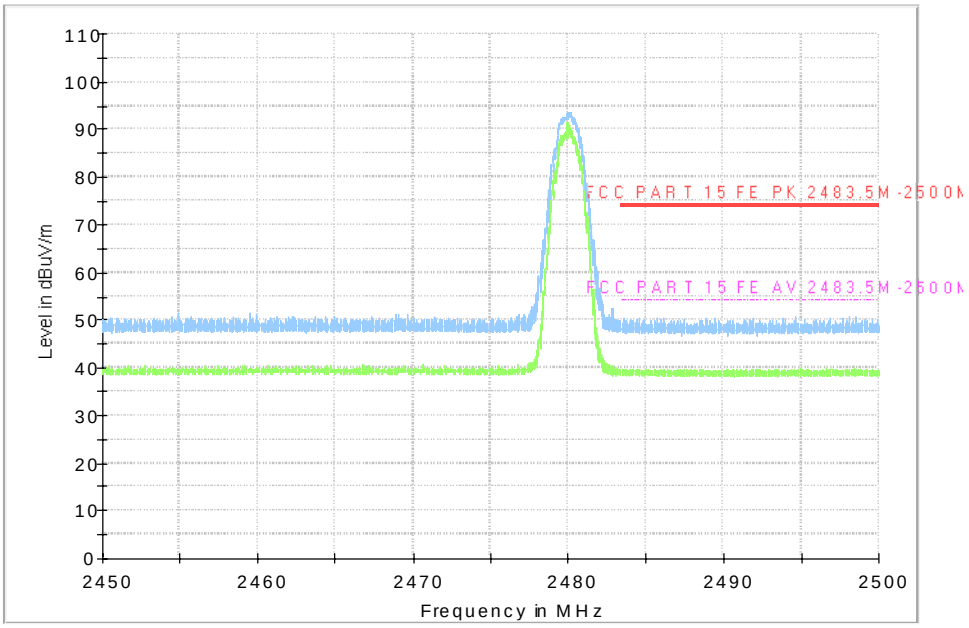

Fig.87 Radiated Band Edges (8DPSK, Ch78, 2450GHz~2500GHz , Horizontal Direction)

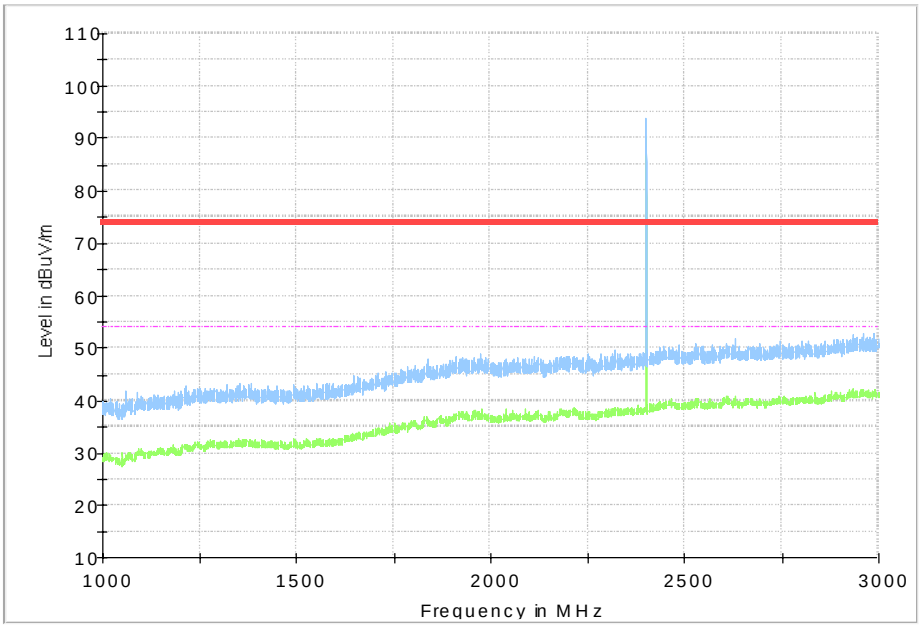

Fig.88 Radiated Spurious Emission (8DPSK, Ch0, 1GHz ~3GHz , Vertical Direction)

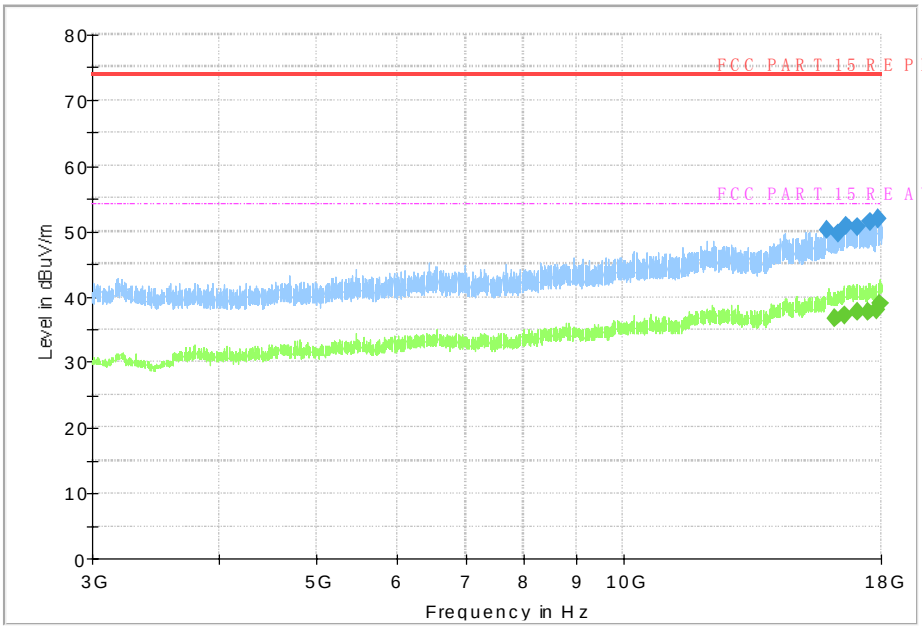

Fig.89 Radiated Spurious Emission (8DPSK, Ch0, 3GHz ~18GHz , Vertical Direction)

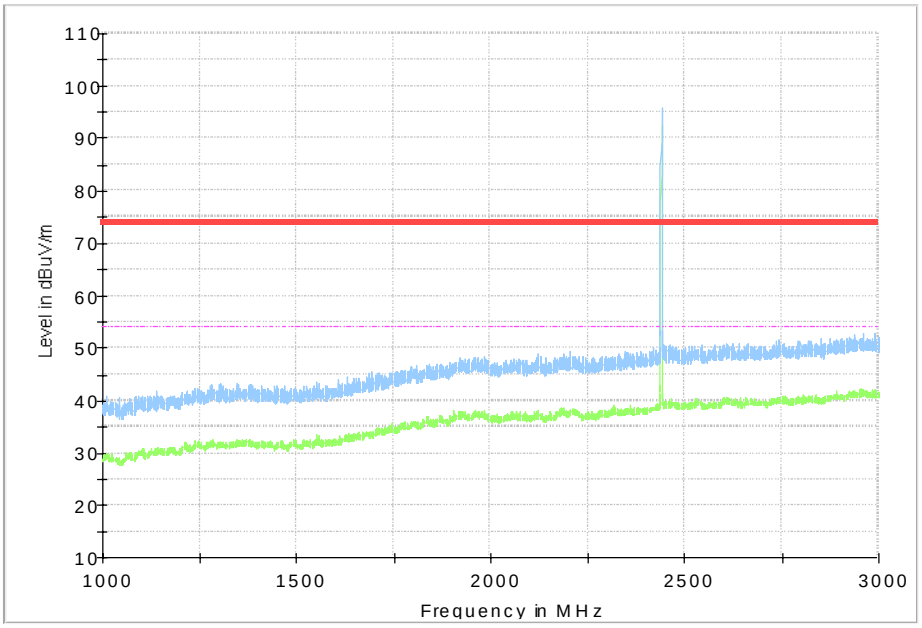

Fig.90 Radiated Spurious Emission (8DPSK, Ch39, 1GHz ~3GHz , Vertical Direction)

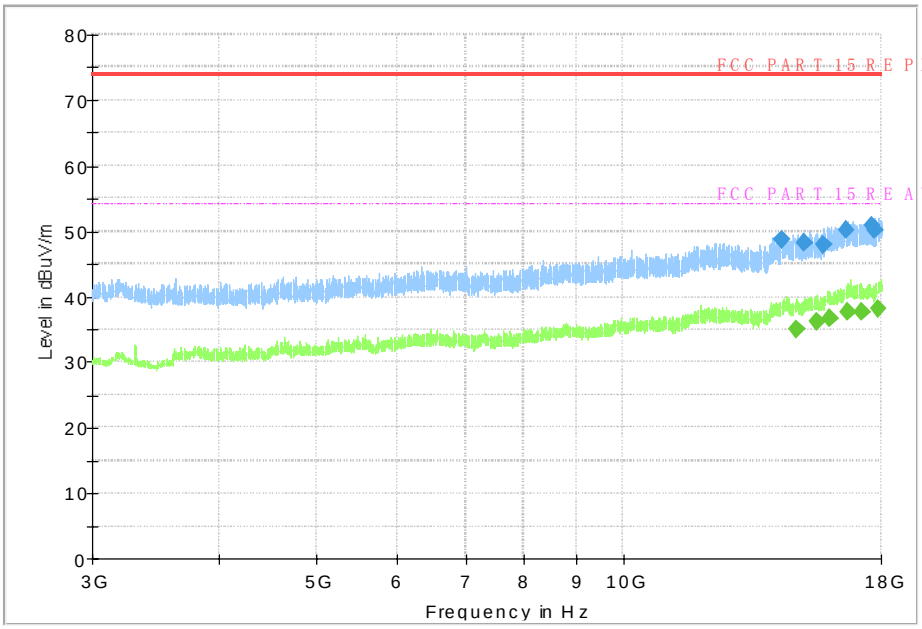

Fig.91 Radiated Spurious Emission (8DPSK, Ch39, 3GHz ~18GHz , Vertical Direction)

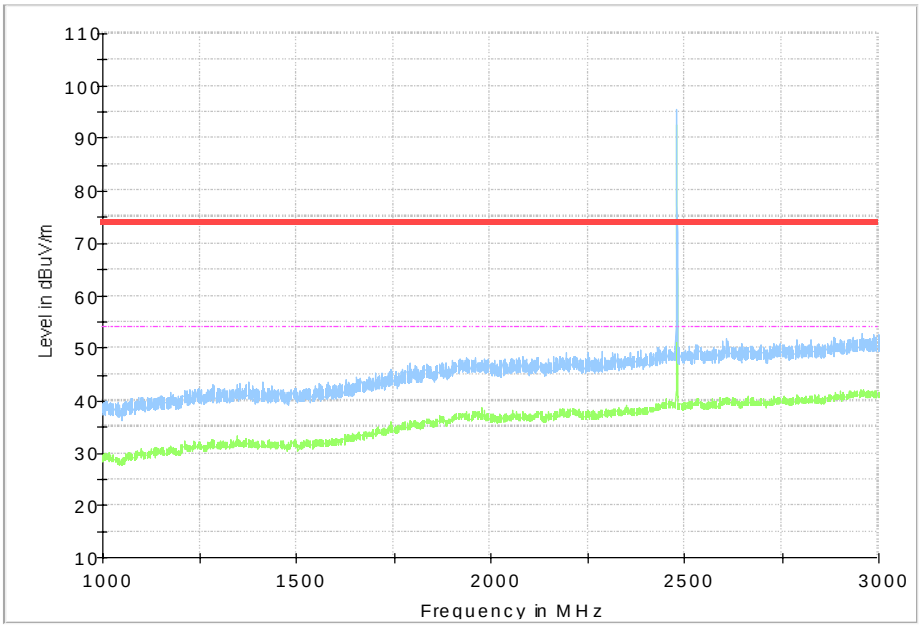

Fig.92 Radiated Spurious Emission (8DPSK, Ch78, 1GHz ~3GHz , Vertical Direction)

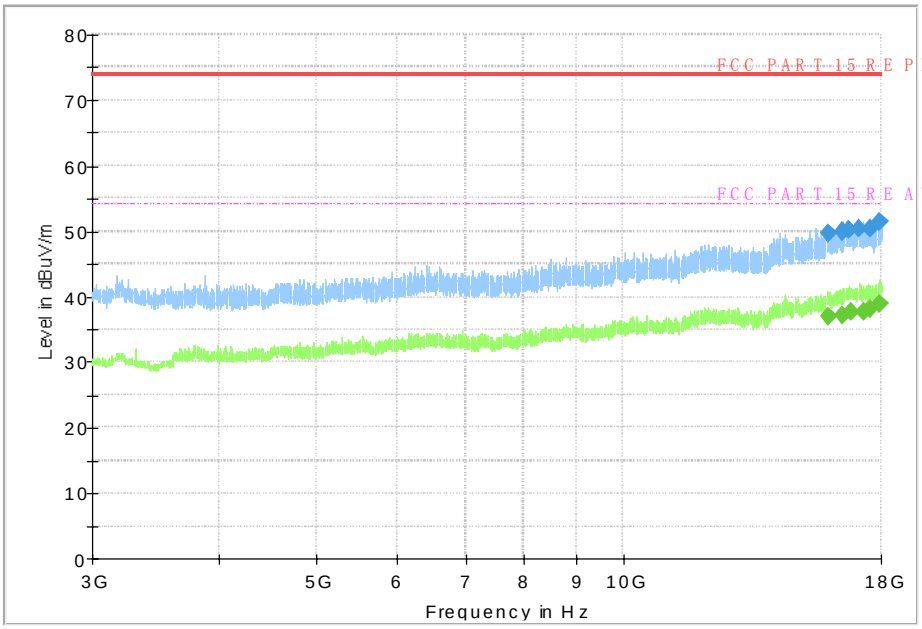

Fig.93 Radiated Spurious Emission (8DPSK, Ch78, 3GHz ~18GHz , Vertical Direction)

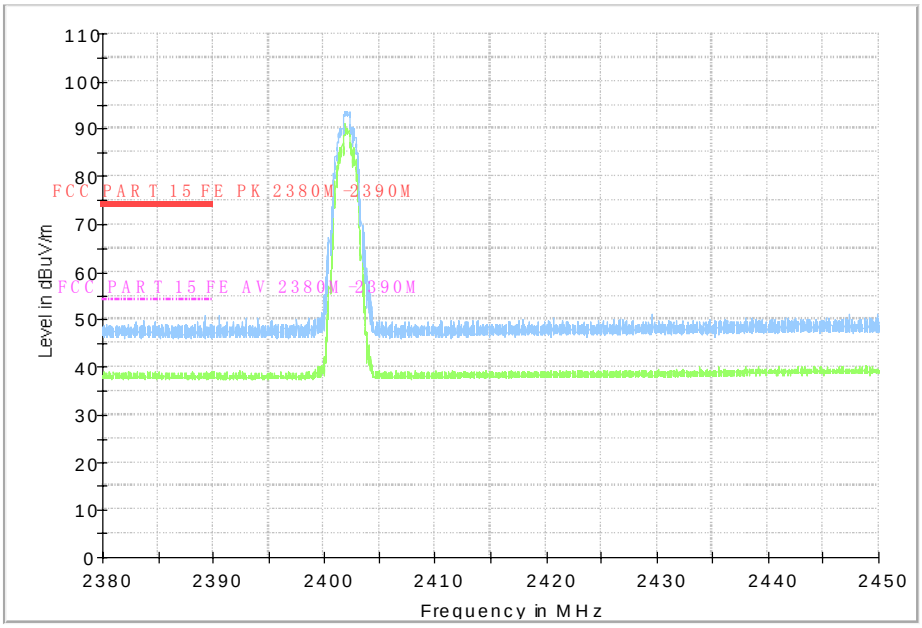

Fig.94 Radiated Band Edges (8DPSK, Ch0, 2380GHz~2450GHz ,Vertical Direction)

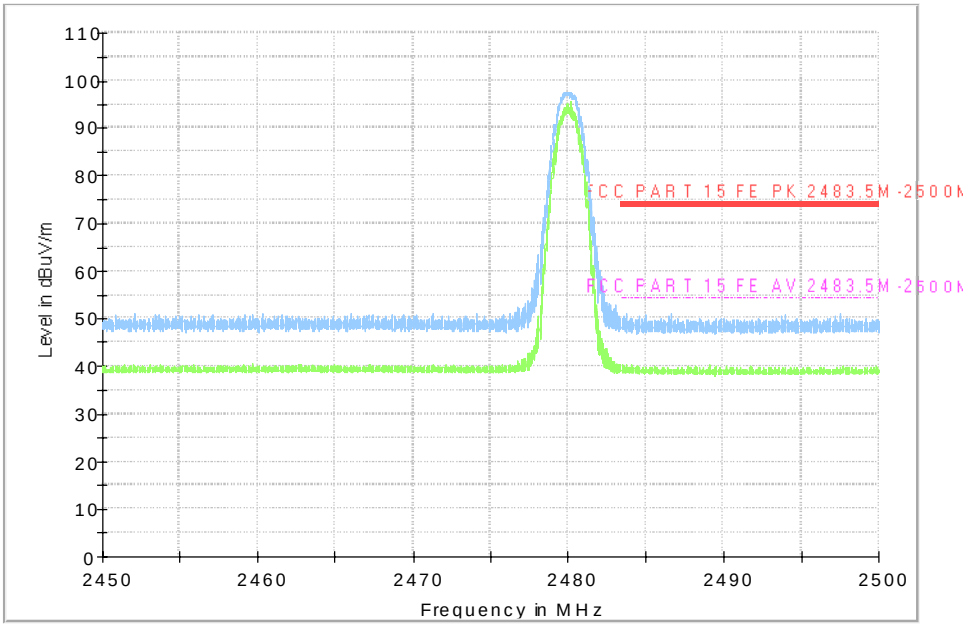

Fig.95 Radiated Band Edges (8DPSK, Ch78, 2450GHz~2500GHz, Vertical Direction)

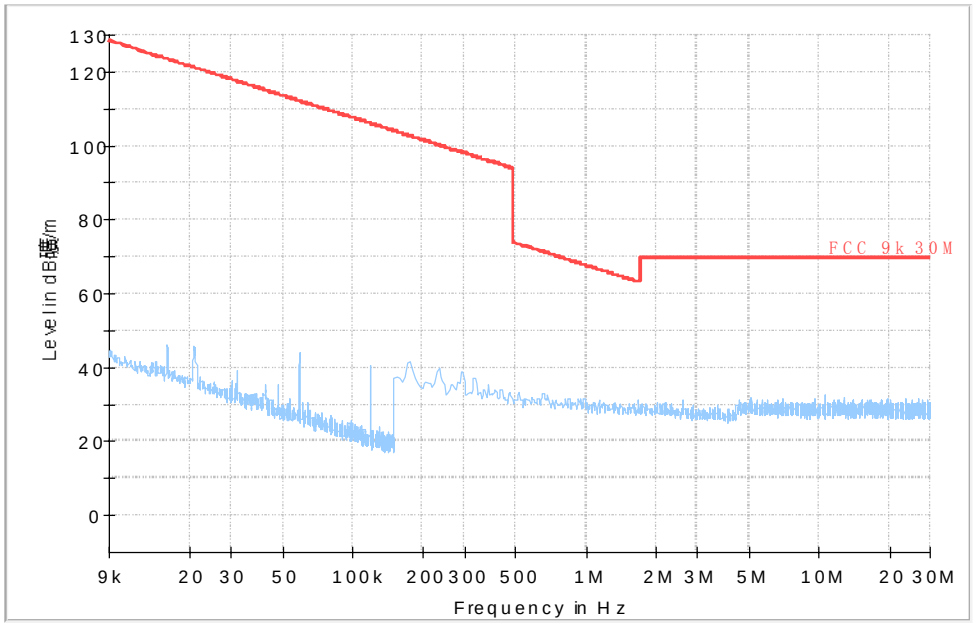

Fig.96 Radiated Spurious Emission (8DPSK, All Channels, 9 kHz-30 MHz)

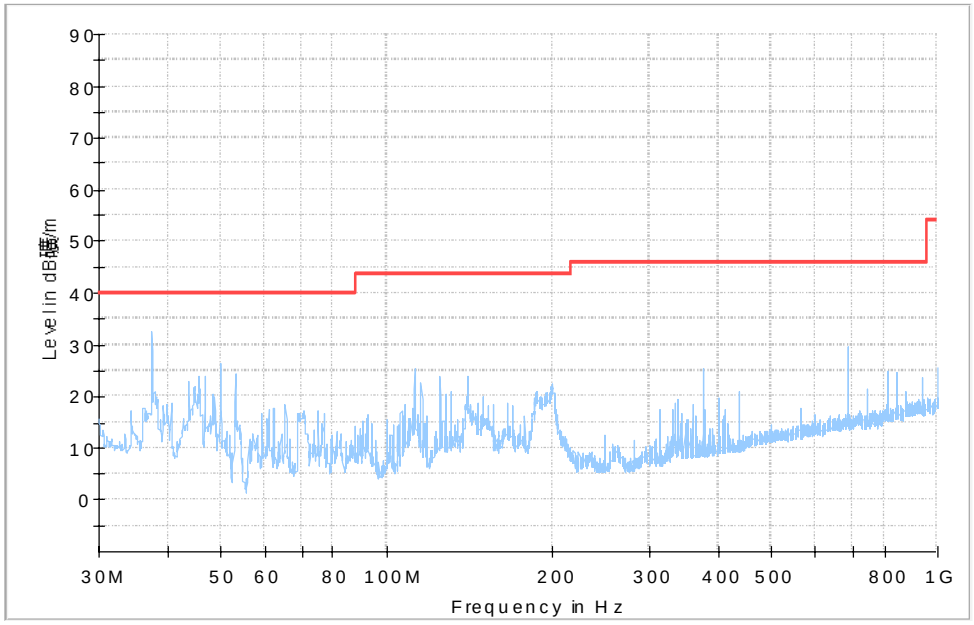

Fig.97 Radiated Spurious Emission (8DPSK, All Channels, 30 MHz ~1 GHz)

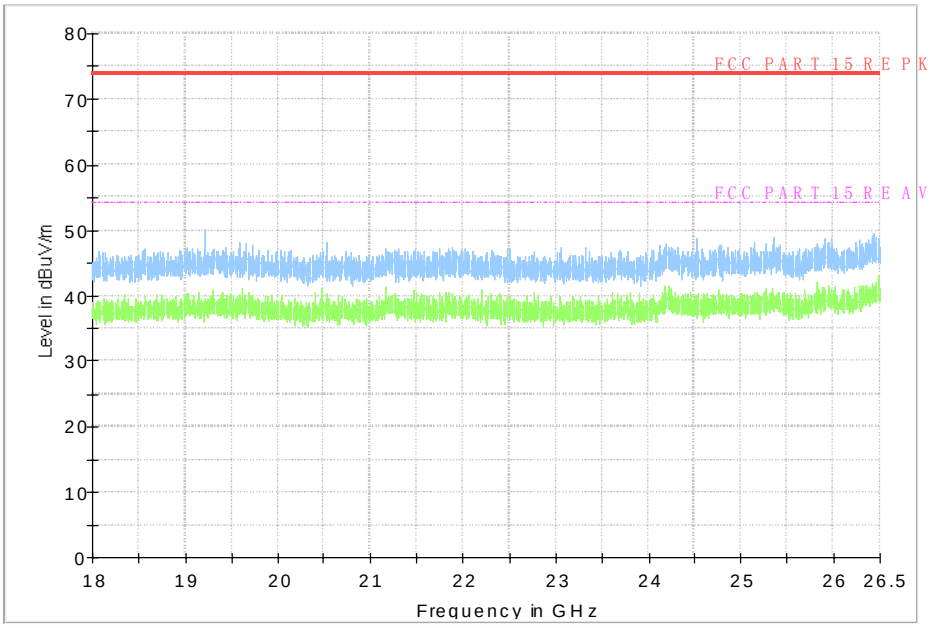

Fig.98 Radiated Spurious Emission (8DPSK, All Channels, 18 GHz~ 26.5 GHz)

A.5 20dB Bandwidth

Measurement Limit:

Standard	Limit (kHz)
FCC 47 CFR Part 15.247 (a) & RSS-247 Section 5.1	/

Measurement Result:

Mode	Channel	20dB Bandwidth (KHz)		conclusion
GFSK	0	Fig.99	936.00	/
	39	Fig.100	934.50	
	78	Fig.101	936.00	
π /4 DQPSK	0	Fig.102	1280.25	/
	39	Fig.103	1281.75	
	78	Fig.104	1281.75	
8DPSK	0	Fig.105	1262.25	/
	39	Fig.106	1263.00	
	78	Fig.107	1266.00	

See below for test graphs.

Conclusion: PASS

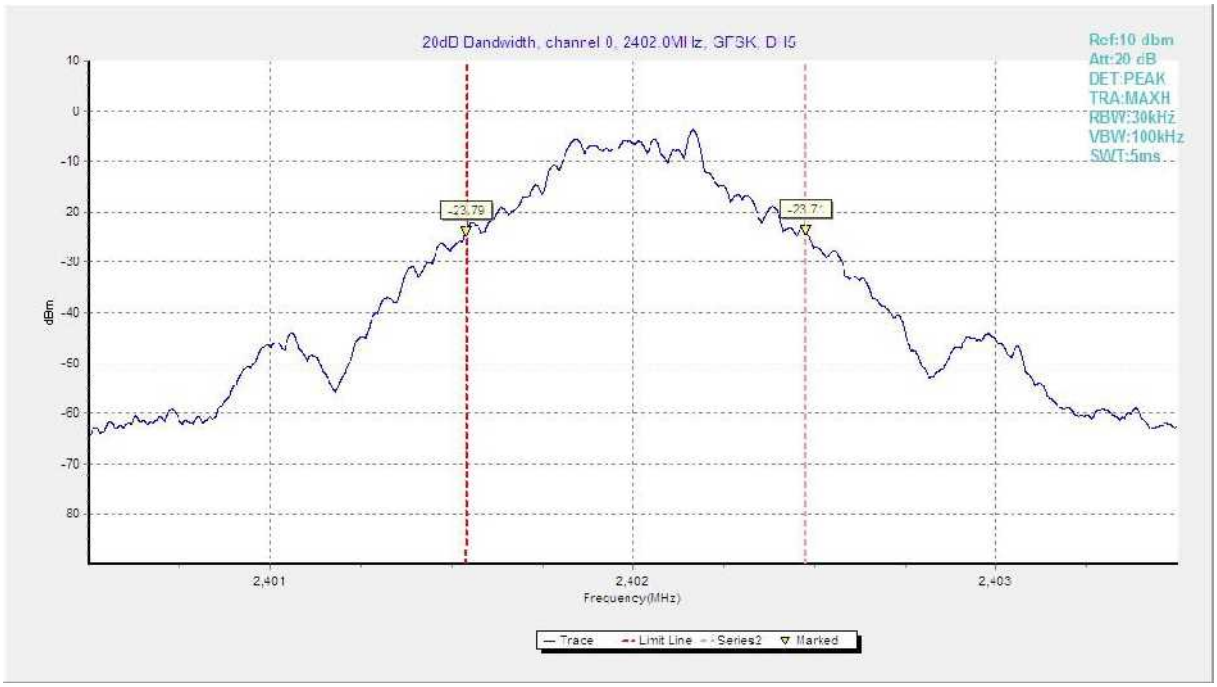

Fig. 99 20dB Bandwidth (GFSK, Ch 0)

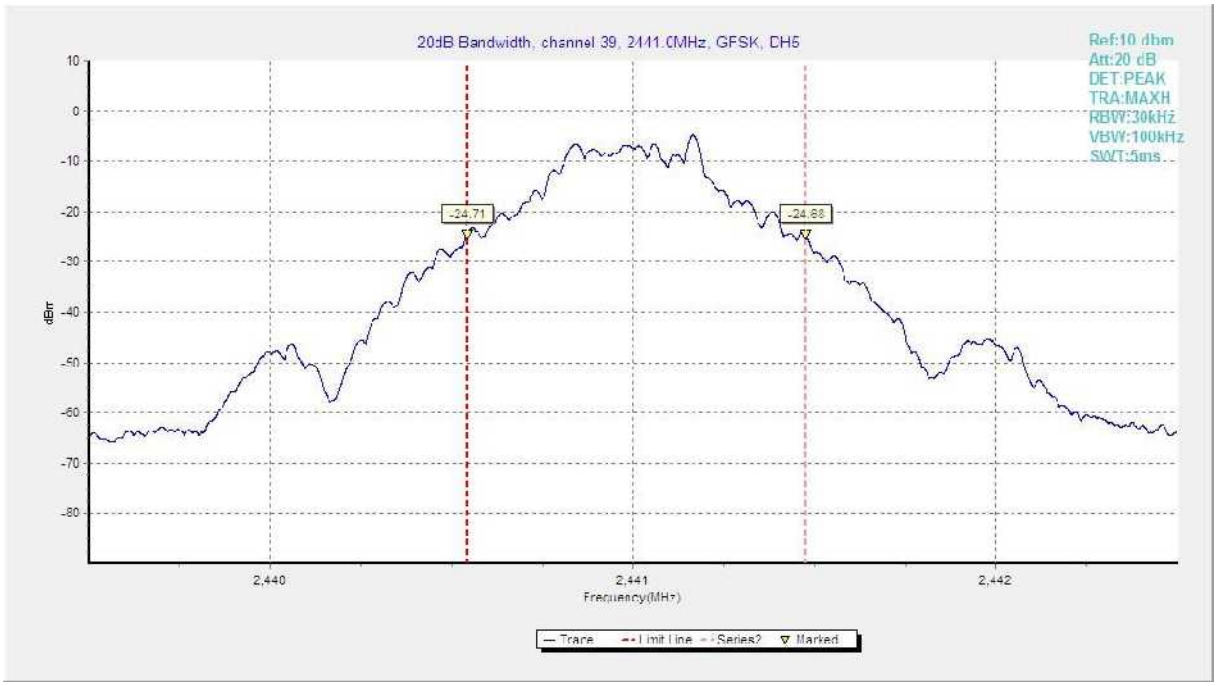

Fig. 100 20dB Bandwidth (GFSK, Ch 39)

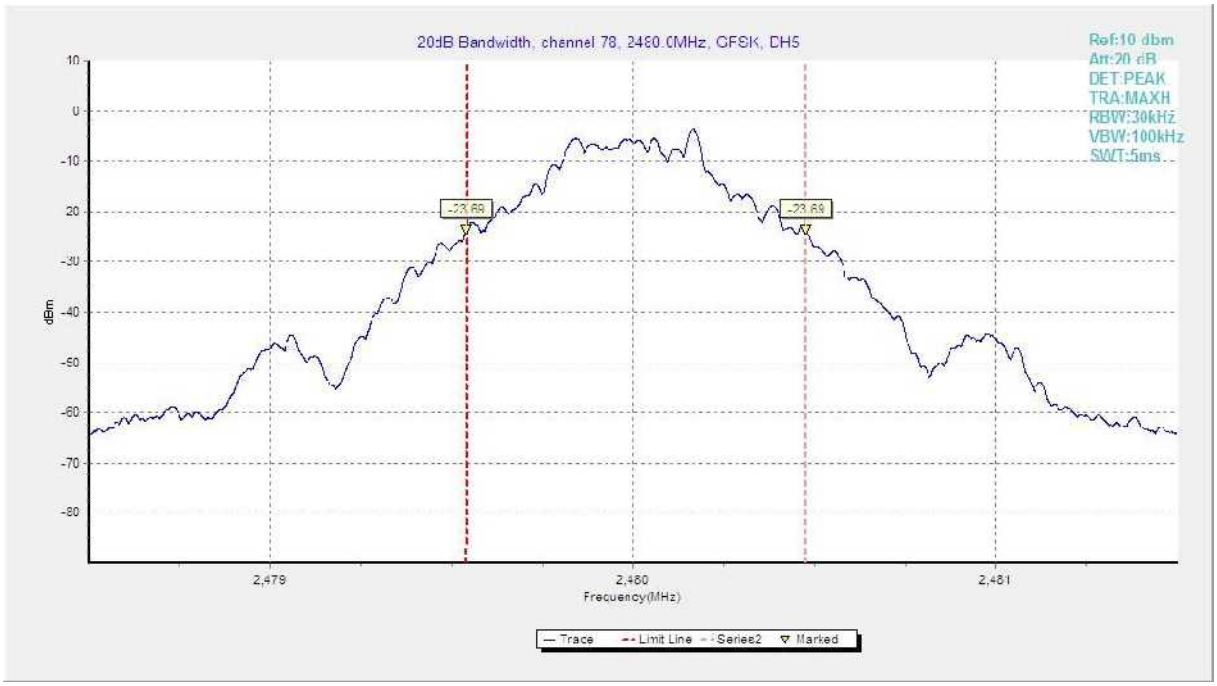

Fig. 101 20dB Bandwidth (GFSK, Ch 78)

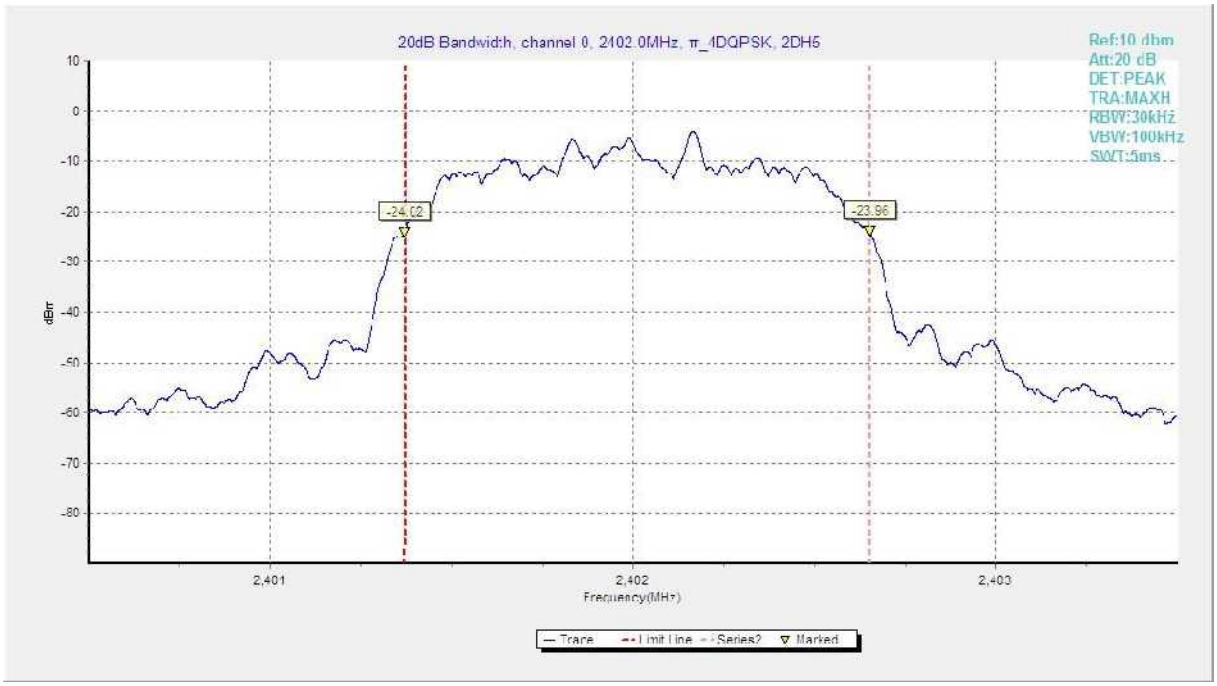

Fig. 102 20dB Bandwidth (π /4 DQPSK, Ch 0)

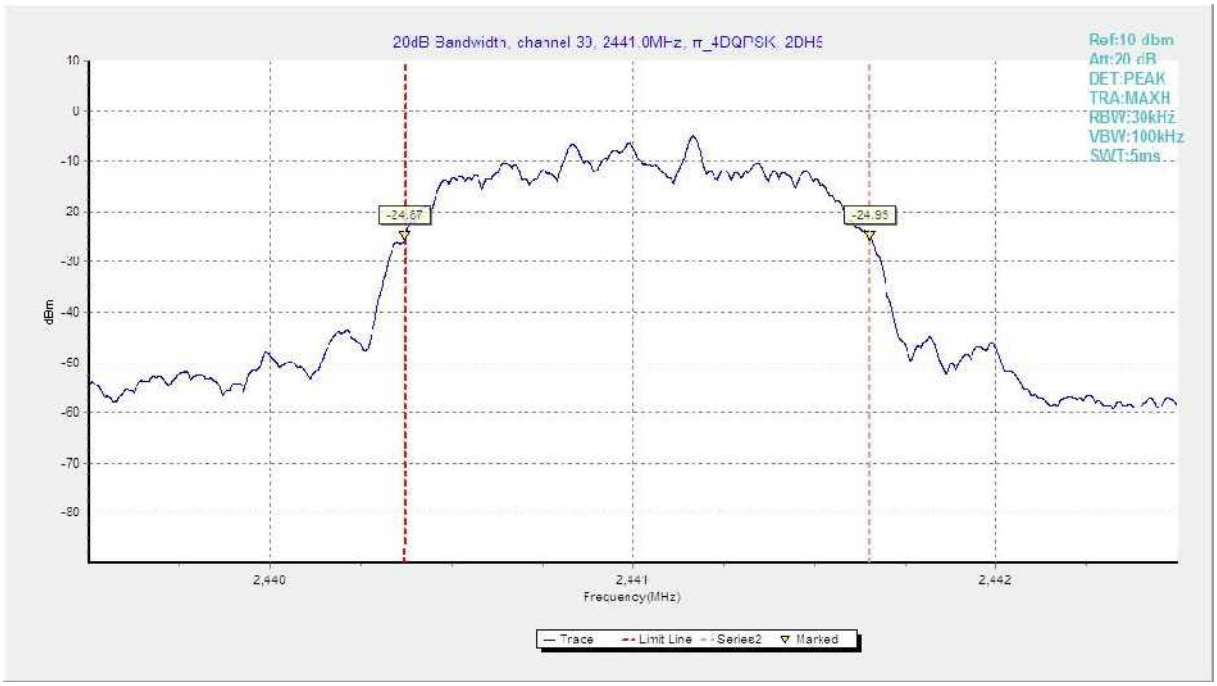

Fig. 103 20dB Bandwidth (π /4 DQPSK, Ch 39)

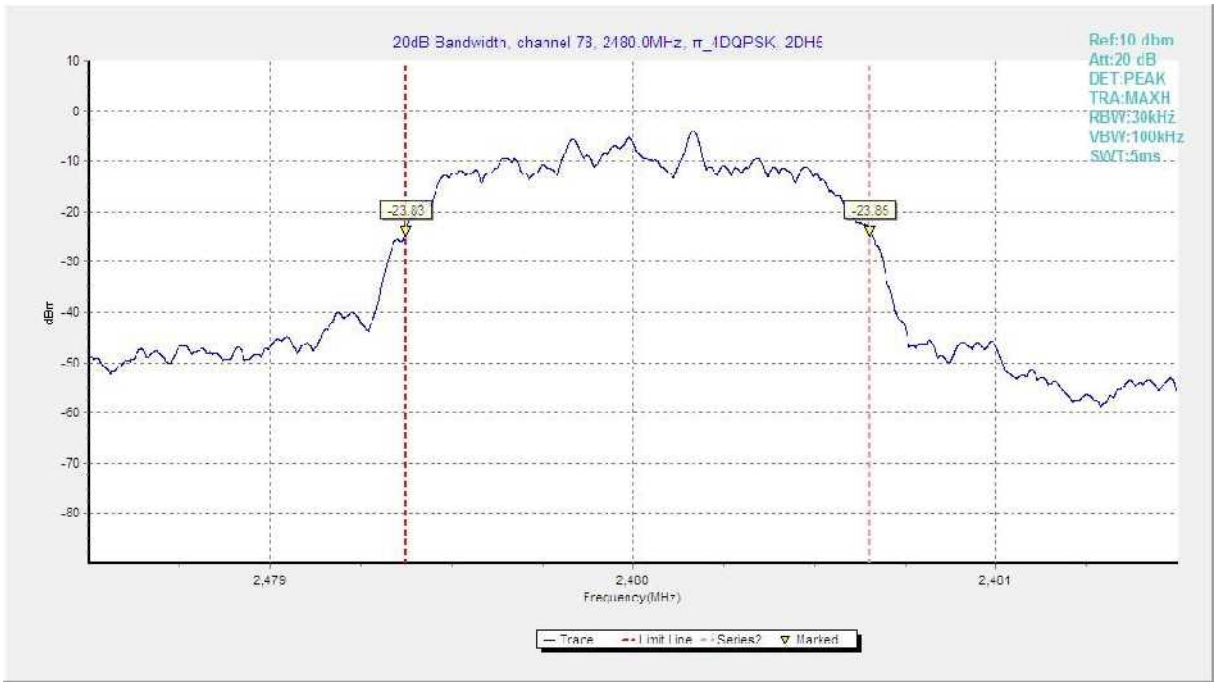

Fig. 104 20dB Bandwidth (π /4 DQPSK, Ch 78)

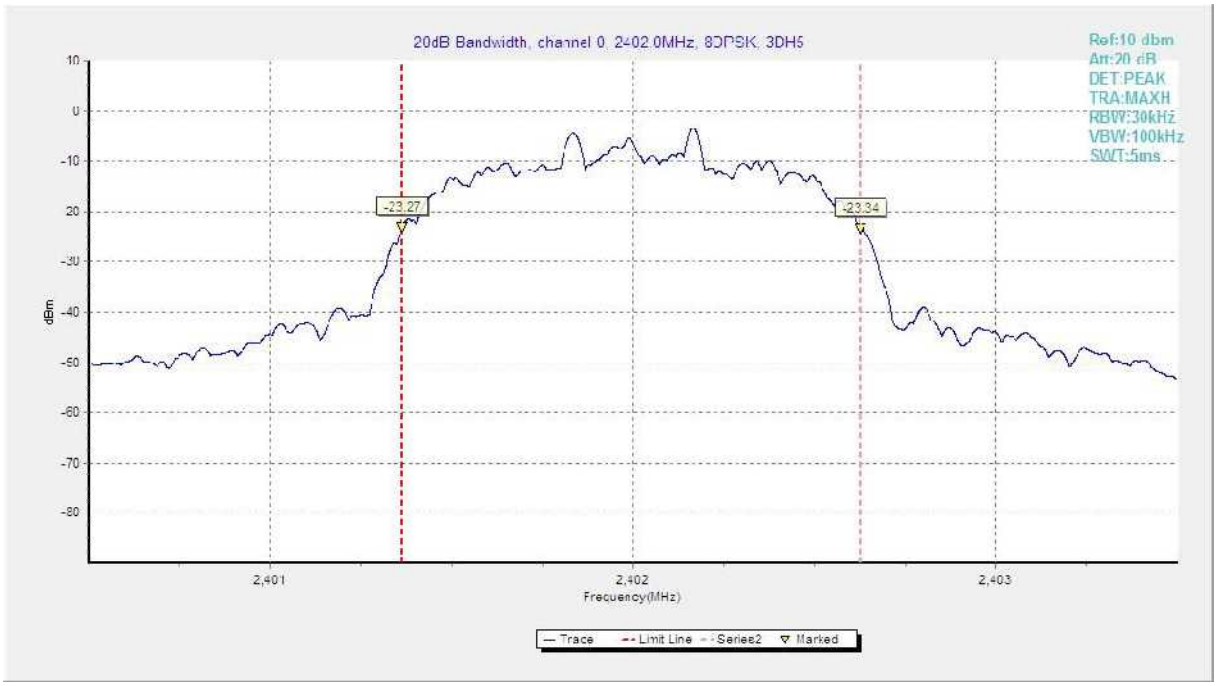

Fig. 105 20dB Bandwidth (8DPSK, Ch 0)

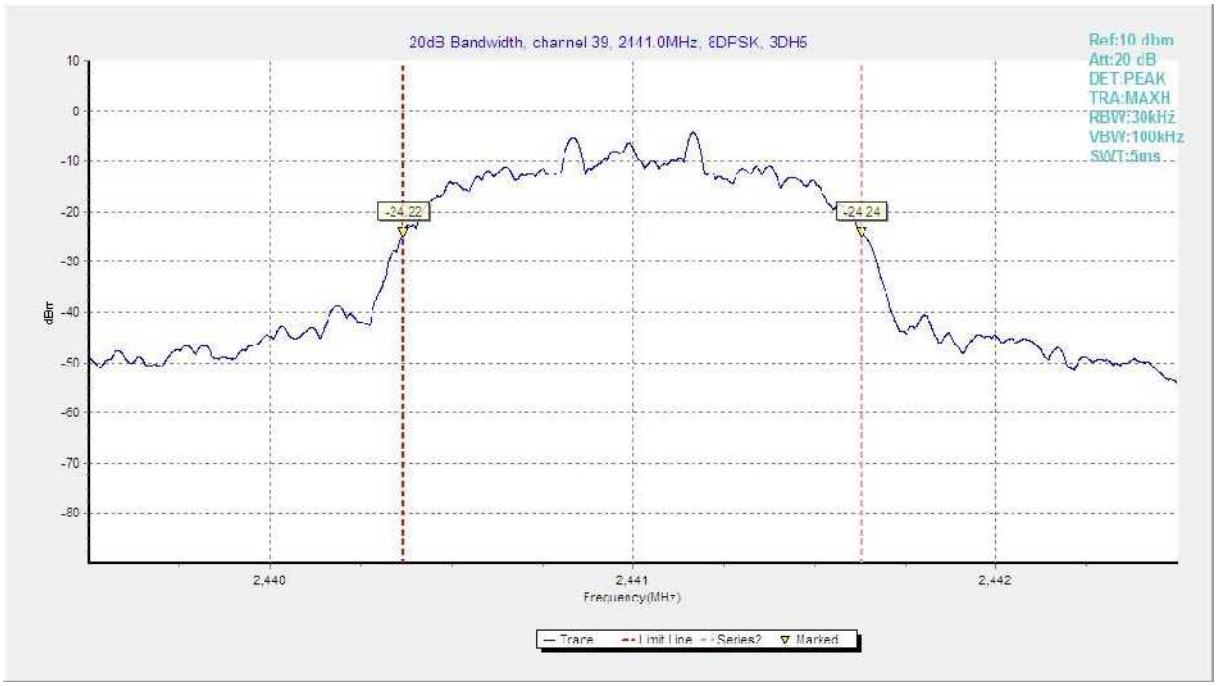

Fig. 106 20dB Bandwidth (8DPSK, Ch 39)

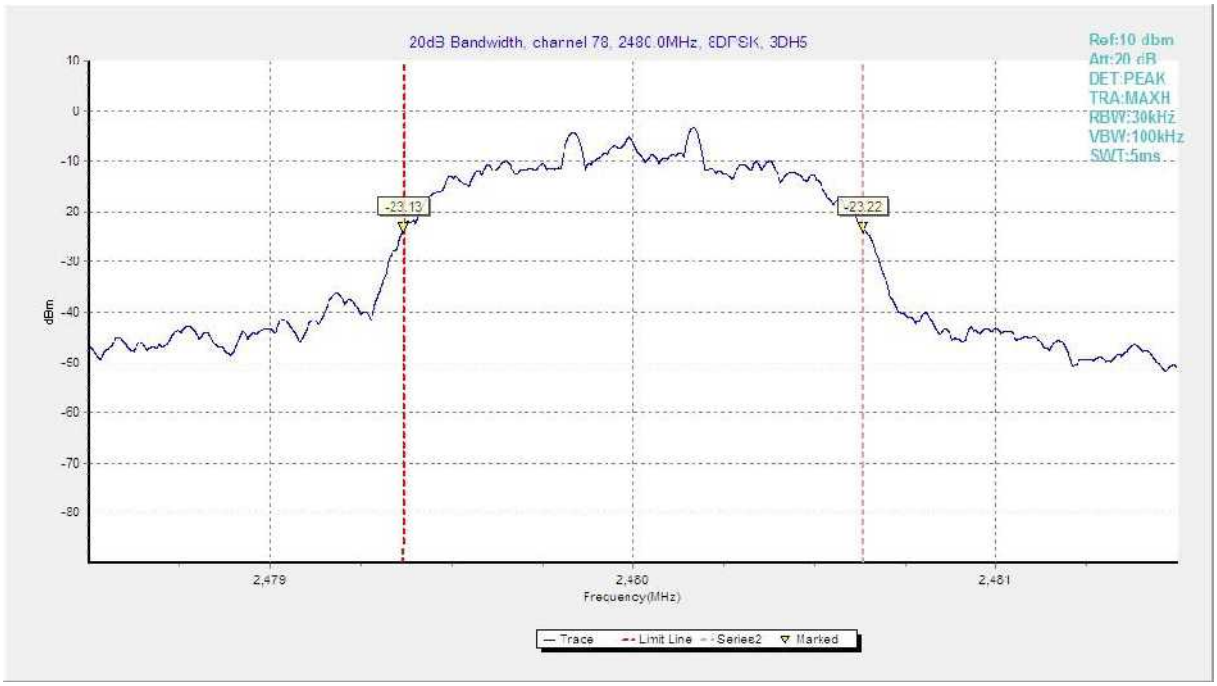

Fig. 107 20dB Bandwidth (8DPSK, Ch 78)

A.6 Time of Occupancy (Dwell Time)

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) & RSS-247 Section 5.1	< 400 ms

Measurement Results:

Mode	Channel	Packet	Dwell Time(ms)		Conclusion
GFSK	39	DH5	Fig.108	189.74	**P**
			Fig.109		
π/4 DQPSK	39	2-DH5	Fig.110	182.02	**P**
			Fig.111		
8DPSK	39	3-DH5	Fig.112	193.60	**P**
			Fig.113		

See below for test graphs.

Conclusion: Pass

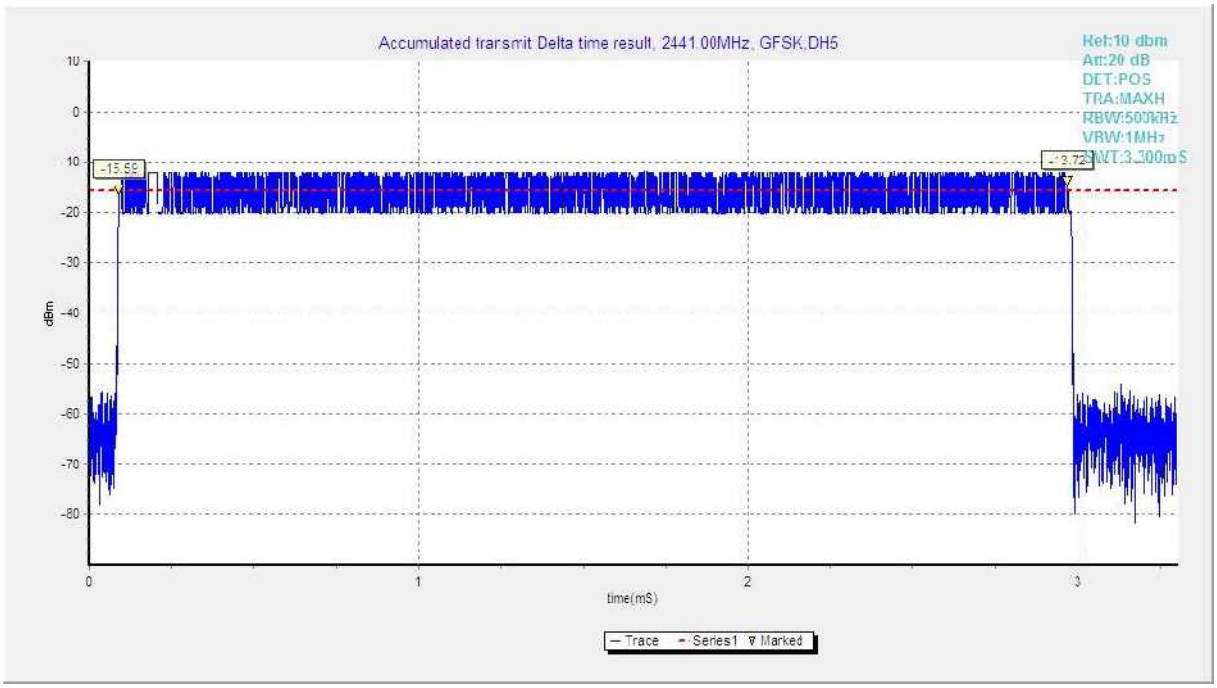

Fig. 108 Time of Occupancy(Dwell Time) (GFSK, Ch39)

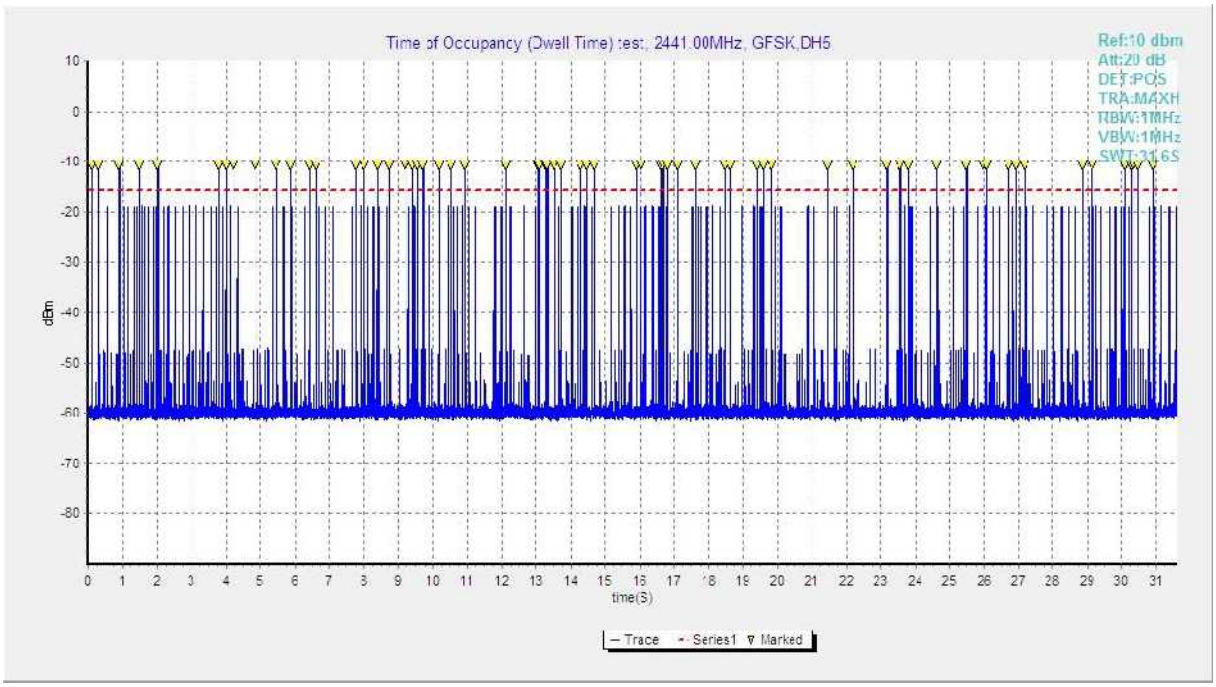

Fig. 109 Time of Occupancy(Dwell Time) (GFSK, Ch39)

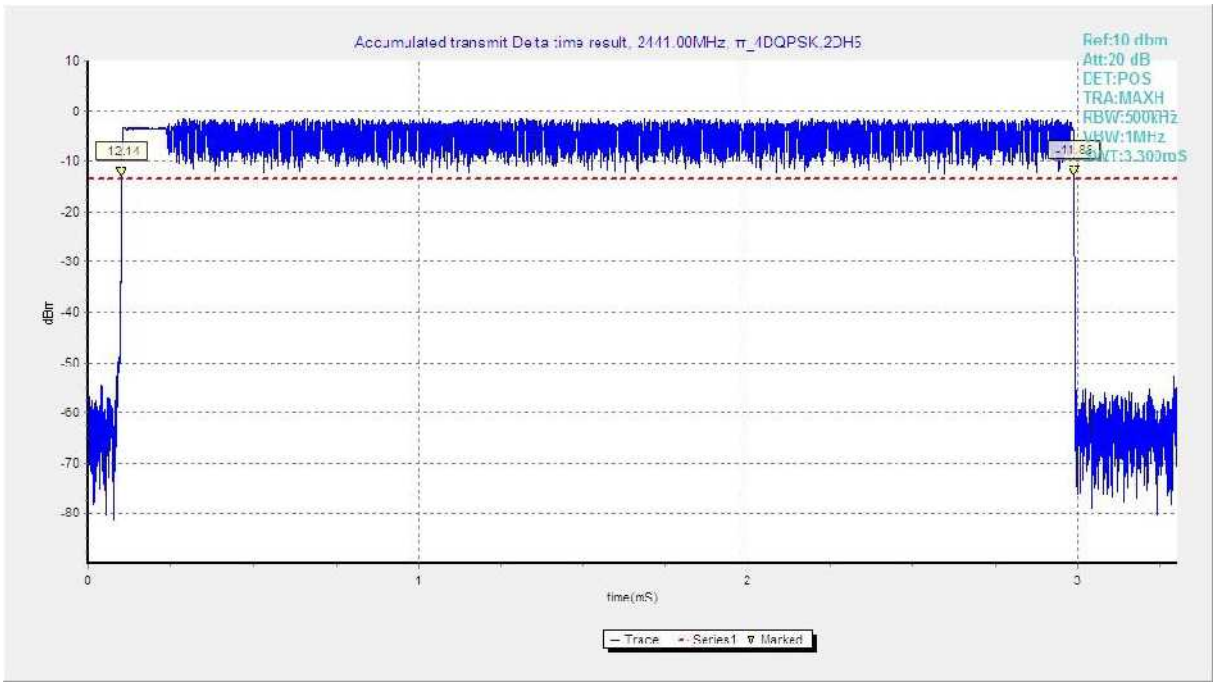

Fig. 110 Time of Occupancy(Dwell Time) (π /4 DQPSK, Ch39)

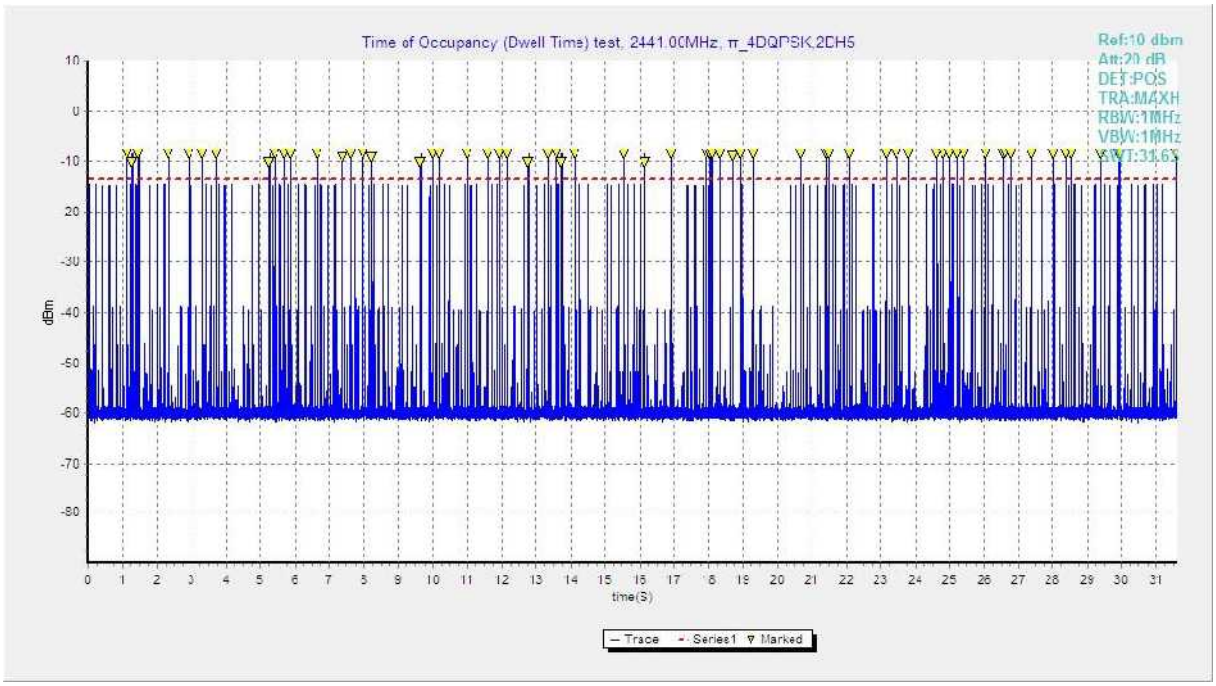

Fig. 111 Time of Occupancy(Dwell Time) (π /4 DQPSK, Ch39)

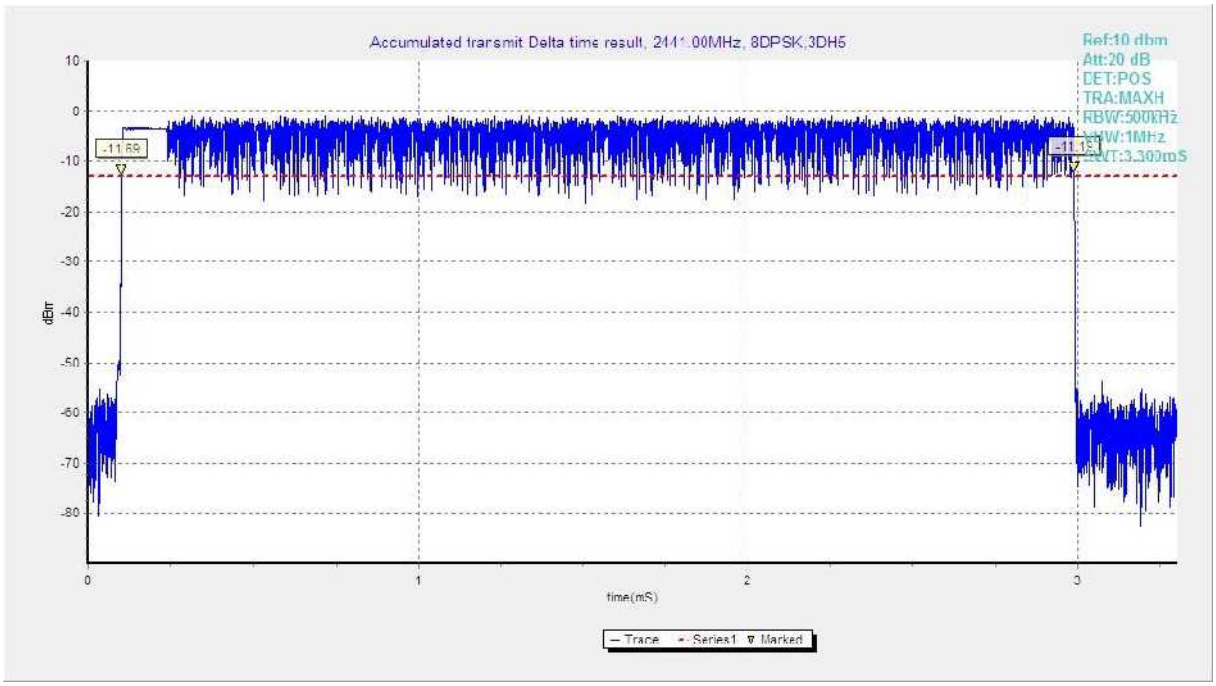

Fig. 112 Time of Occupancy(Dwell Time) (8DPSK, Ch39)

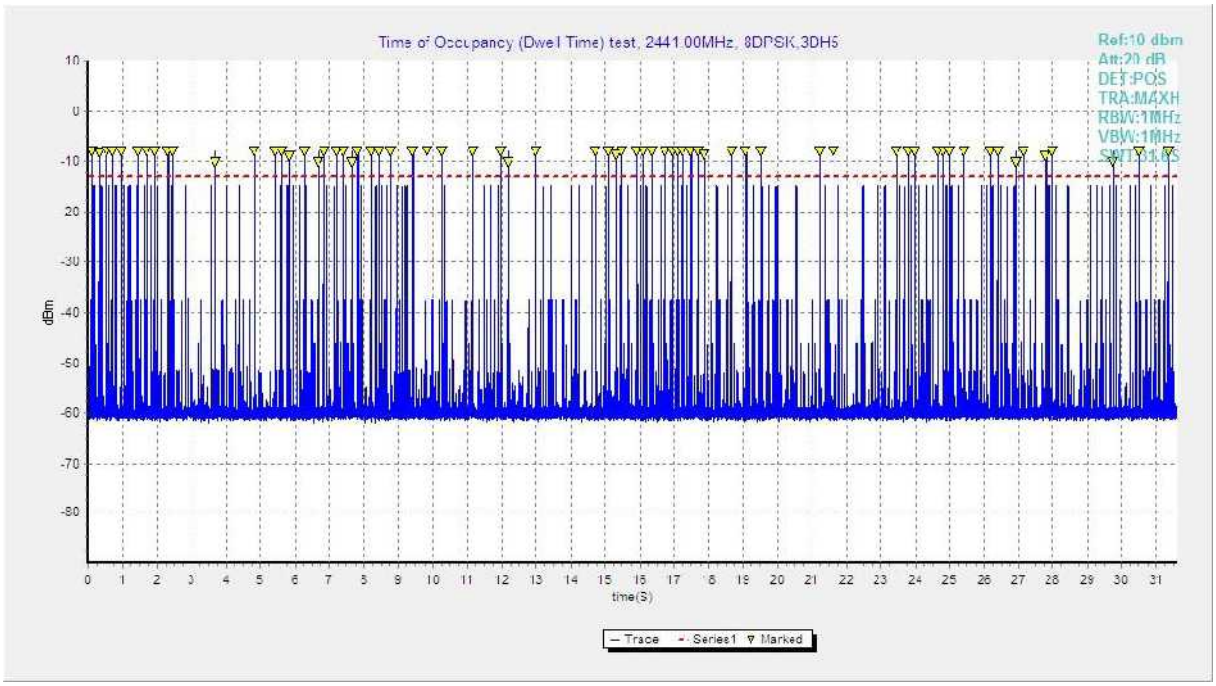

Fig. 113 Time of Occupancy(Dwell Time) (8DPSK, Ch39)

A.7 Number of Hopping Channels

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) & RSS-247 Section 5.1	At least 15 non-overlapping channels

Measurement Results:

Mode	Packet	Number of hopping		Test result	Conclusion
GFSK	DH5	Fig.114	Fig.115	79	**P**
π/4 DQPSK	2-DH5	Fig.116	Fig.117	79	**P**
8DPSK	3-DH5	Fig.118	Fig.119	79	**P**

See below for test graphs.

Conclusion: Pass

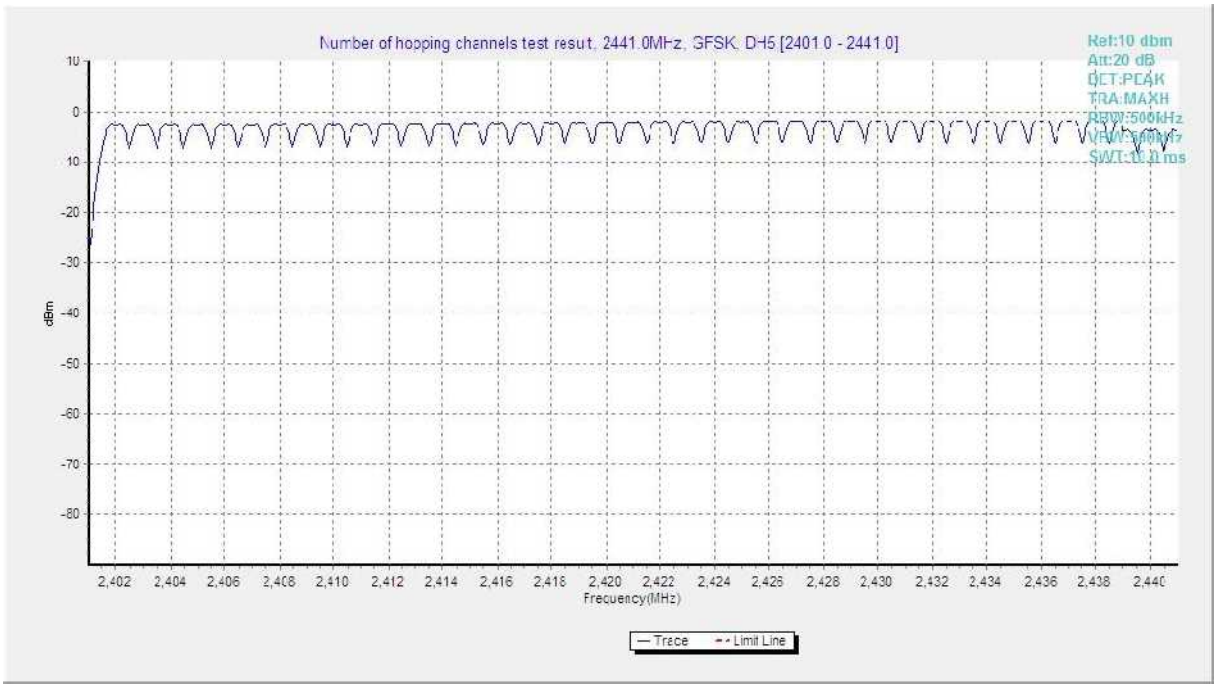

Fig. 114 Hopping channel ch0~39 (GFSK, Ch39)

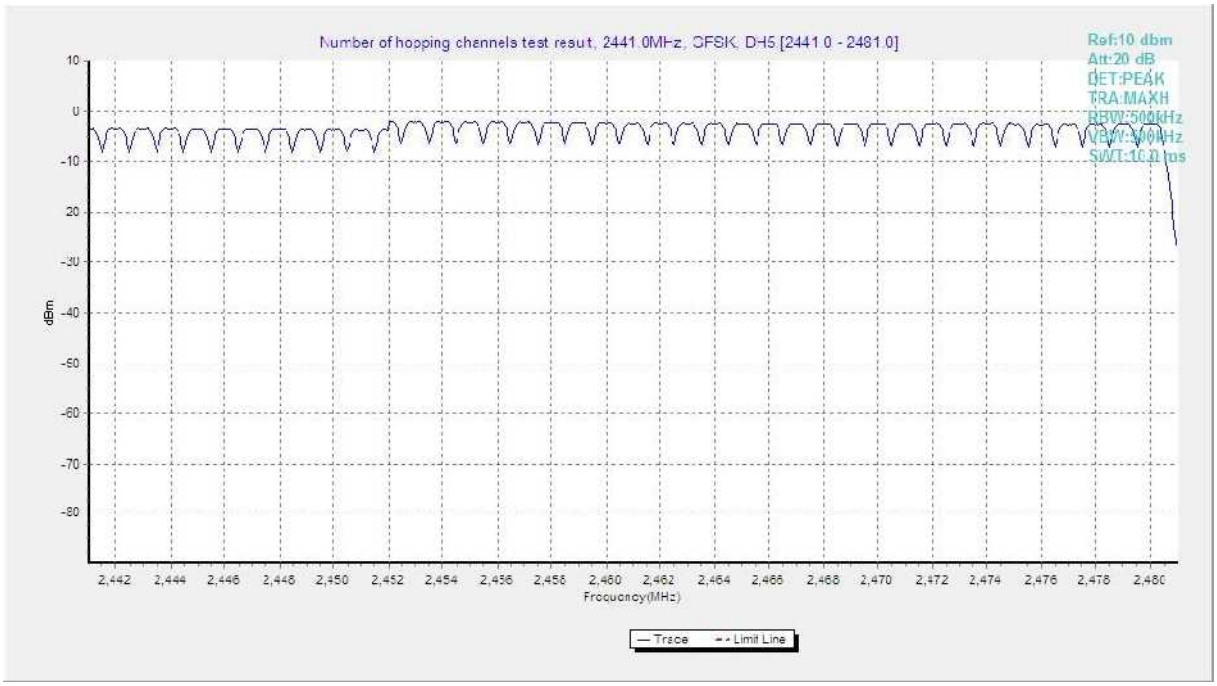

Fig. 115 Hopping channel ch39~78 (GFSK, Ch39)

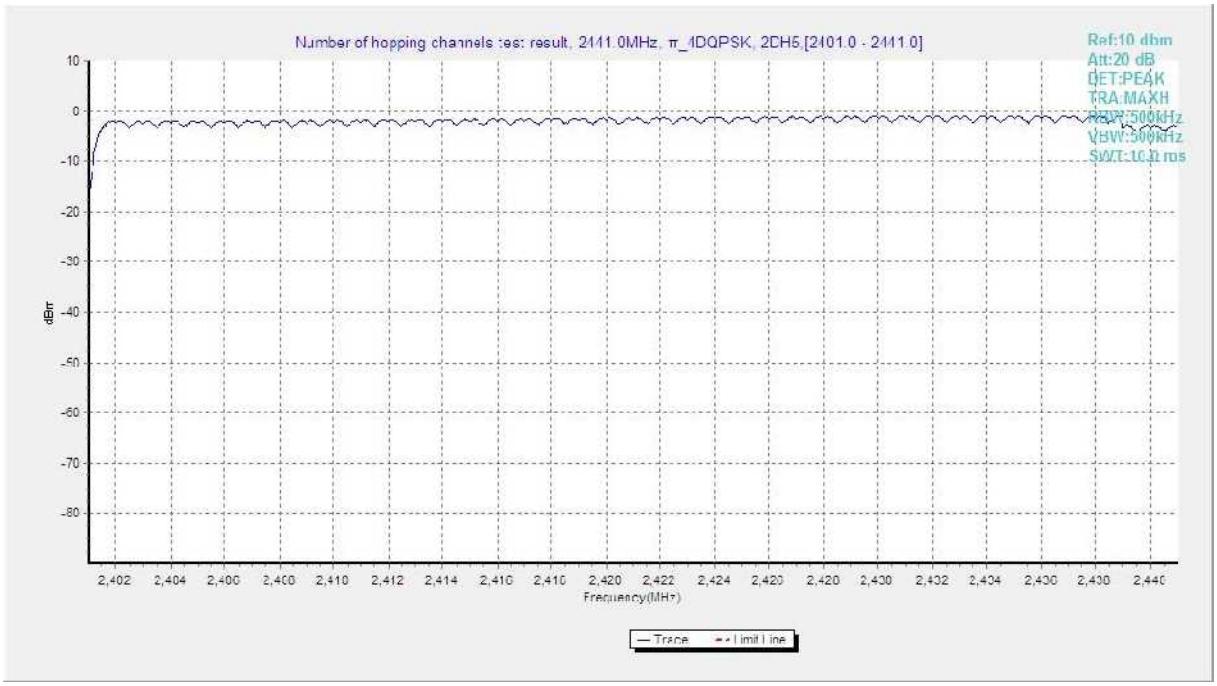

Fig. 116 Hopping channel ch0~39 (π /4 DQPSK, Ch39)

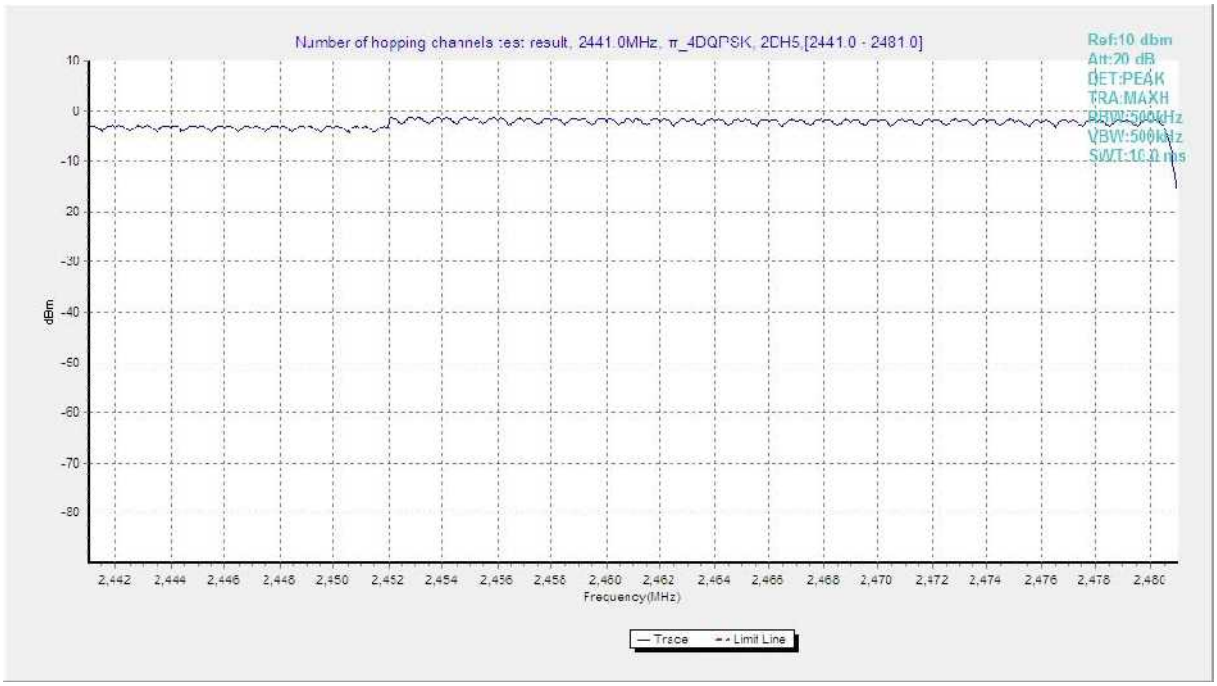

Fig. 117 Hopping channel ch39~78 (π /4 DQPSK, Ch39)

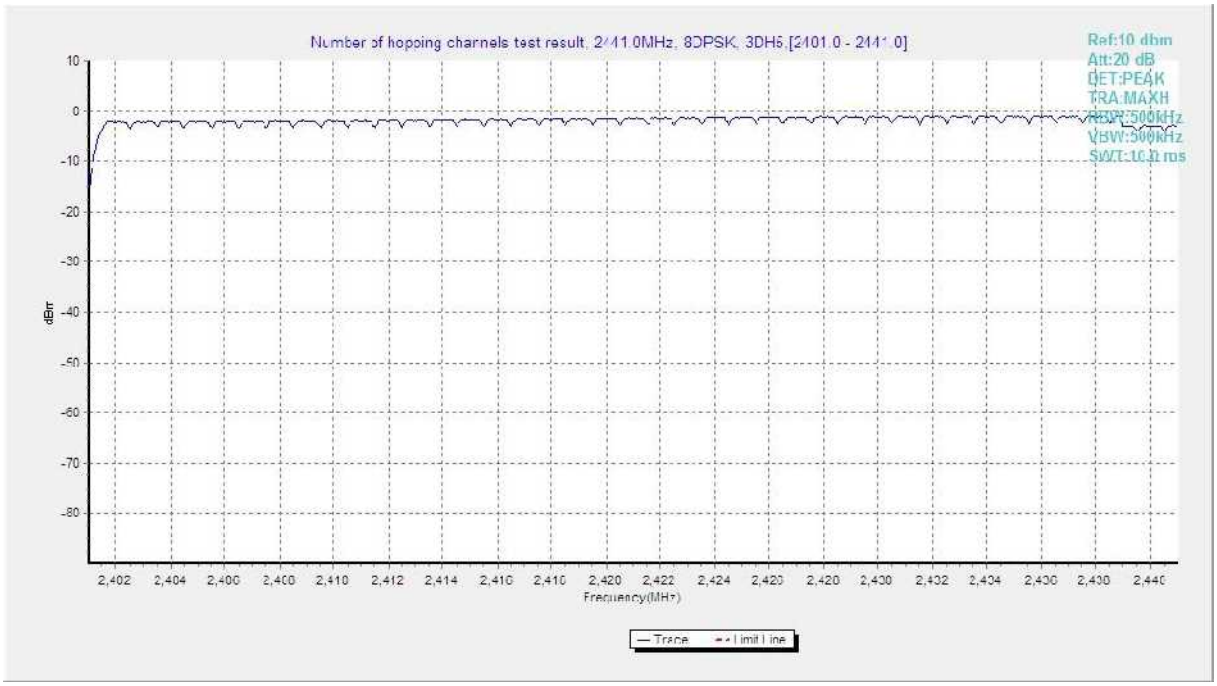

Fig. 118 Hopping channel ch0~39 (8DPSK, Ch39)

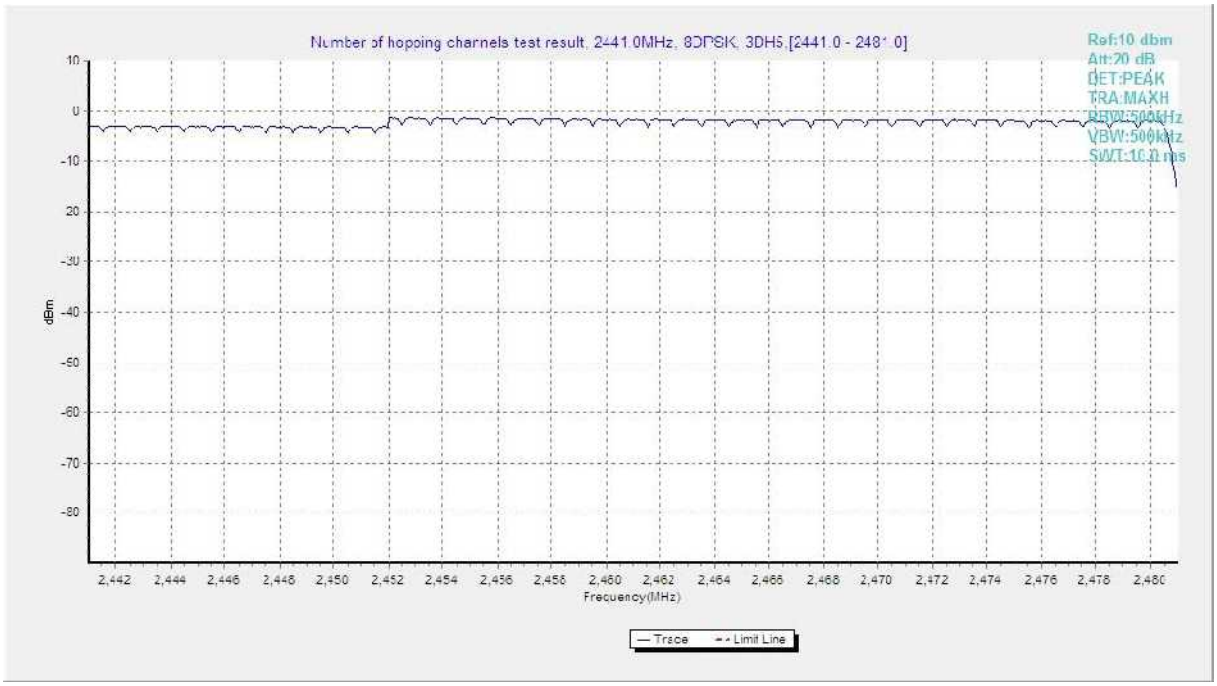

Fig. 119 Hopping channel ch39~78 (8DPSK, Ch39)

A.8 Carrier Frequency Separation

Measurement Limit:

Standard	Limit
FCC 47 CFR Part 15.247(a) & RSS-247 Section 5.1	By a minimum of 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater

Measurement Results:

Mode	Channel	Packet	Separation of hopping channels	Test result (KHz)	Conclusion
GFSK	39	DH5	Fig.120	991.50	**P**
π/4 DQPSK	39	2-DH5	Fig.121	997.50	**P**
8DPSK	39	3-DH5	Fig.122	1010.25	**P**

See below for test graphs.

Conclusion: Pass

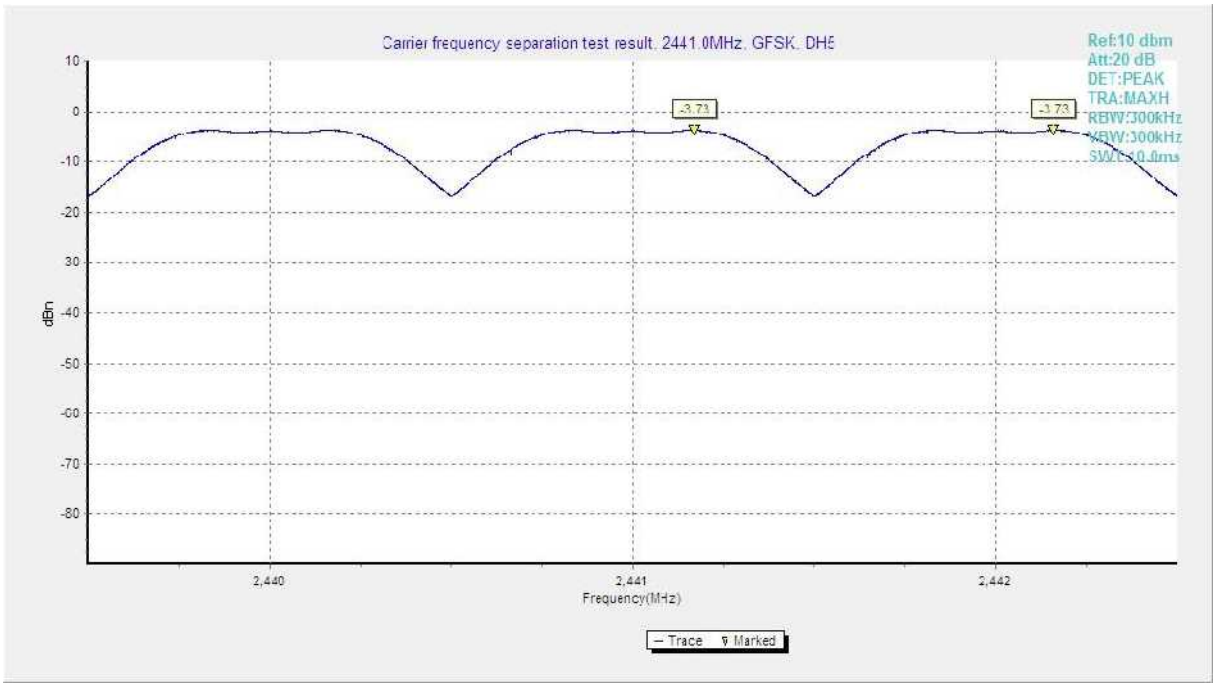

Fig. 120 Carrier Frequency Separation (GFSK, Ch39)

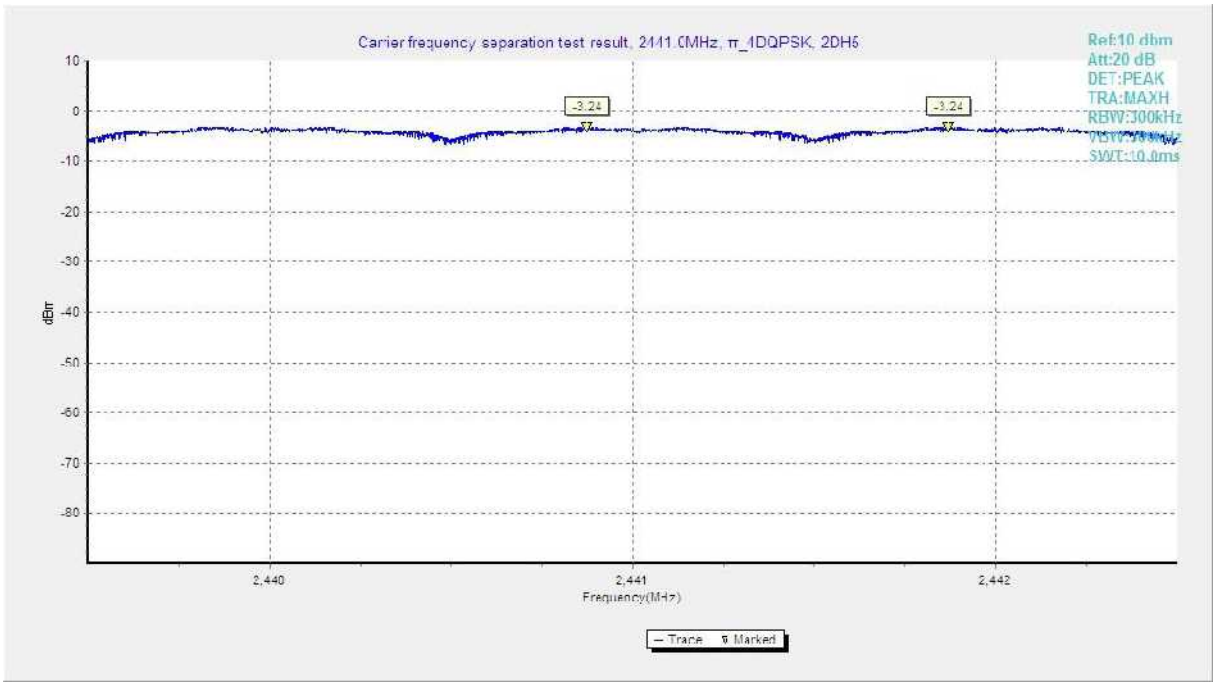

Fig. 121 Carrier Frequency Separation (π /4 DQPSK, Ch39)

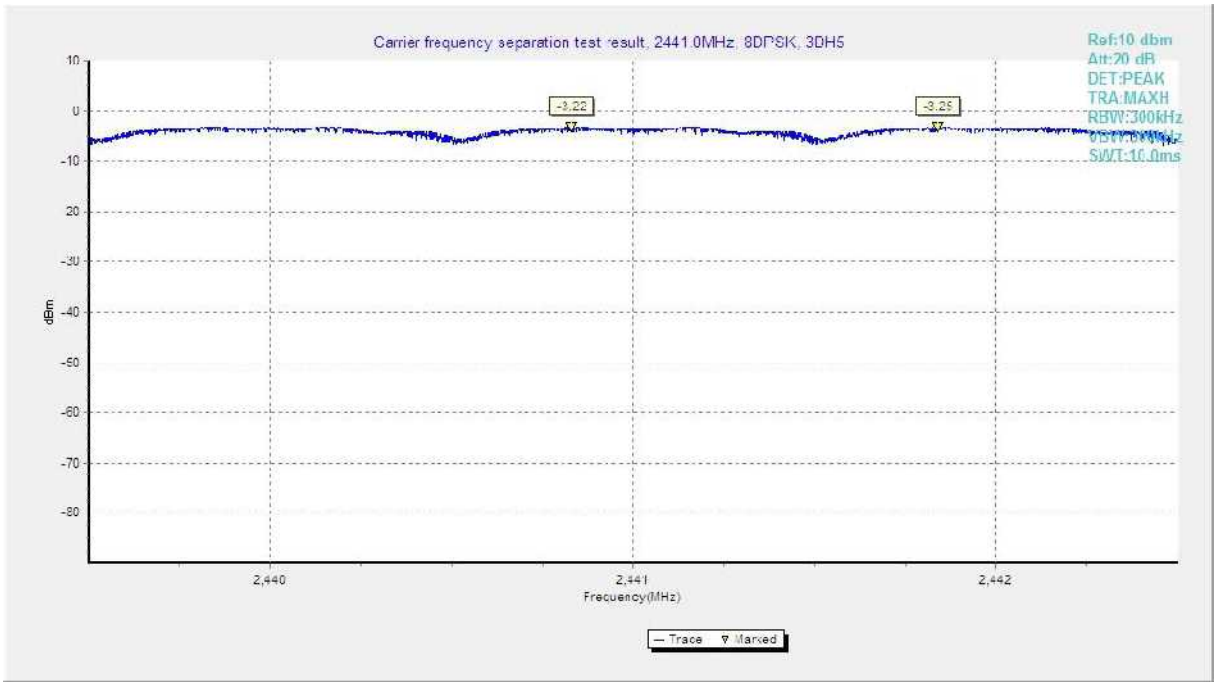

Fig. 122 Carrier Frequency Separation (8DPSK, Ch39)

A.9 Occupied Bandwidth

Measurement Limit:

Standard	Limit
RSS-Gen Section 6.7	/

Measurement Results:

For GFSK

Channel	Occupied Bandwidth (KHz)		Conclusion
0	Fig.42	1008.75	/
39	Fig.43	1008.75	/
78	Fig.44	1008.75	/

For π/4 DQPSK

Channel	Occupied Bandwidth (MHz)		Conclusion
0	Fig.45	974.26	/
39	Fig.46	970.76	/
78	Fig.47	968.26	/

For 8DPSK

Channel	Occupied Bandwidth (MHz)		Conclusion
0	Fig.48	1057.74	/
39	Fig.49	1048.74	/
78	Fig.50	1062.73	/

See below for test graphs.

Conclusion: PASS

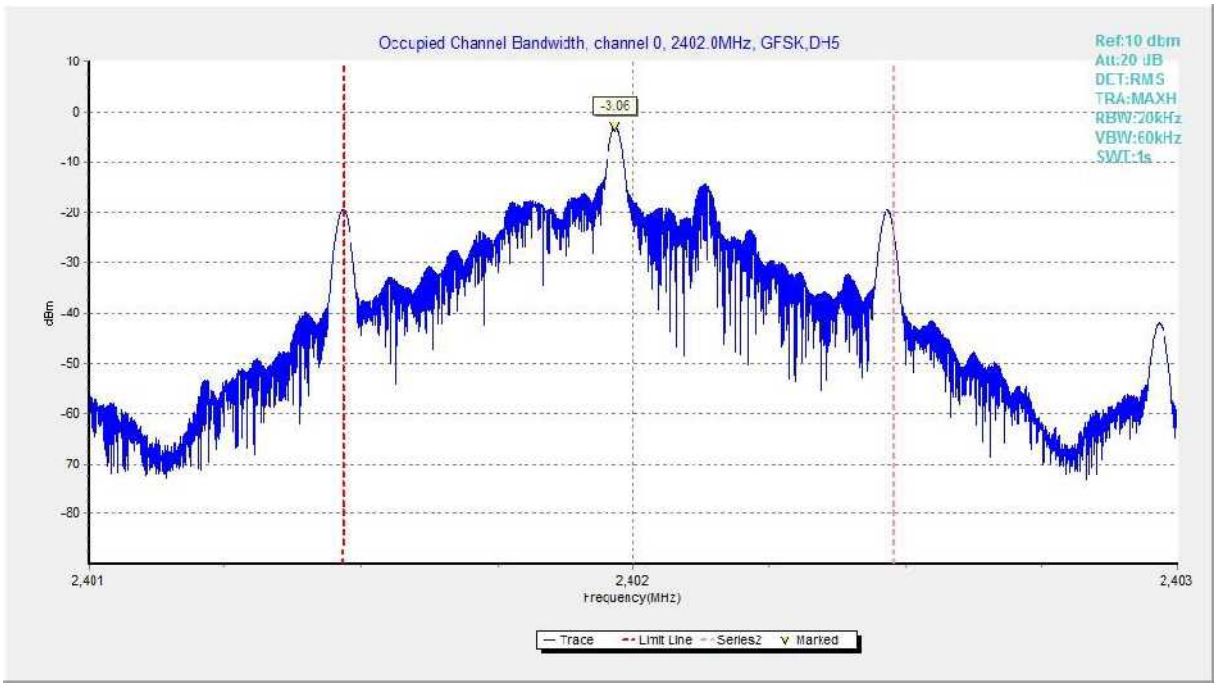

Fig. 42 Occupied Bandwidth: GFSK, Channel 0

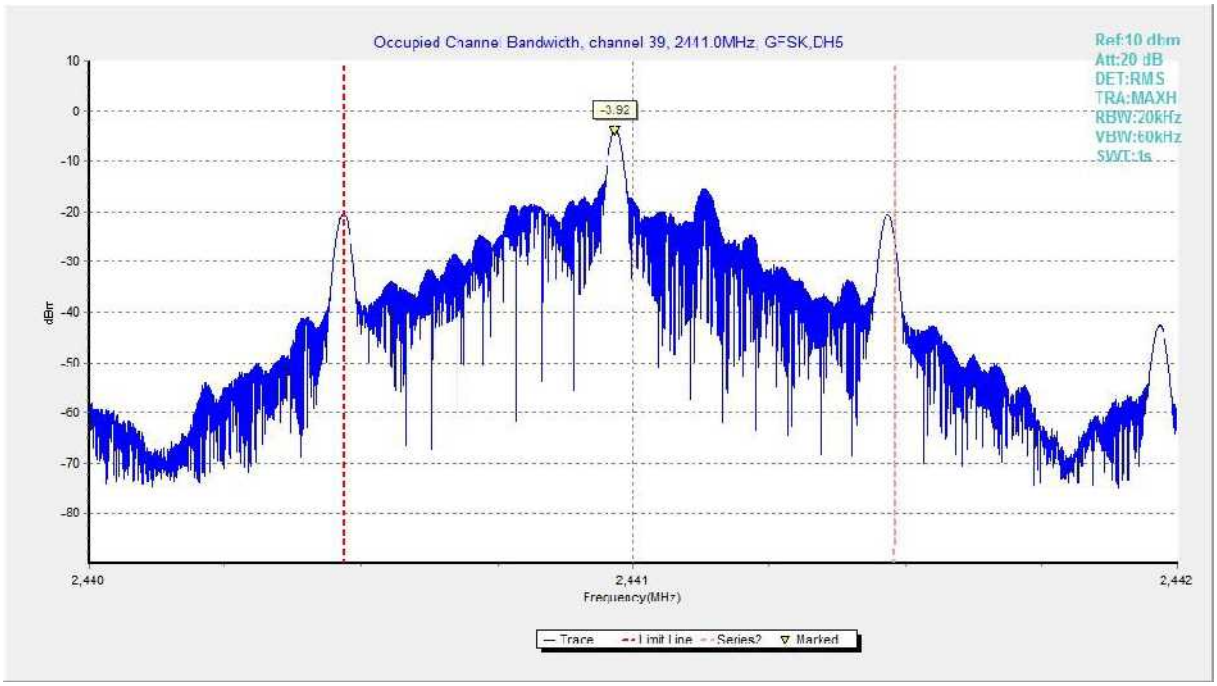

Fig. 43 Occupied Bandwidth: GFSK, Channel 39

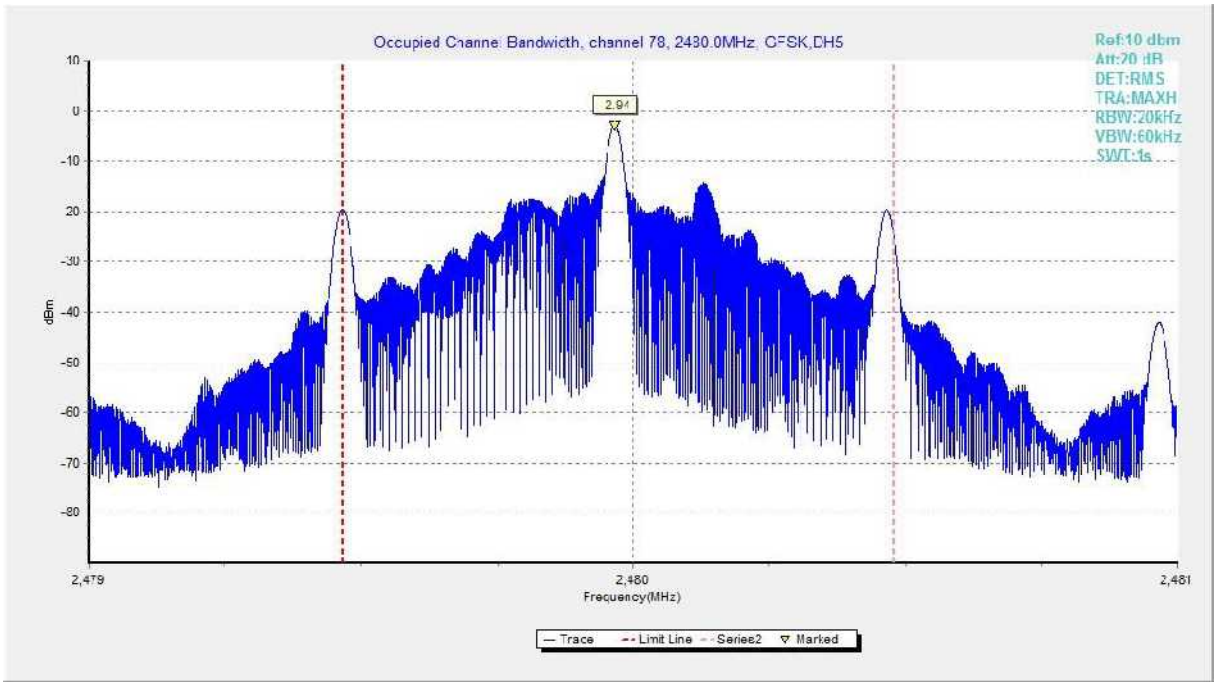

Fig. 44 Occupied Bandwidth: GFSK, Channel 78

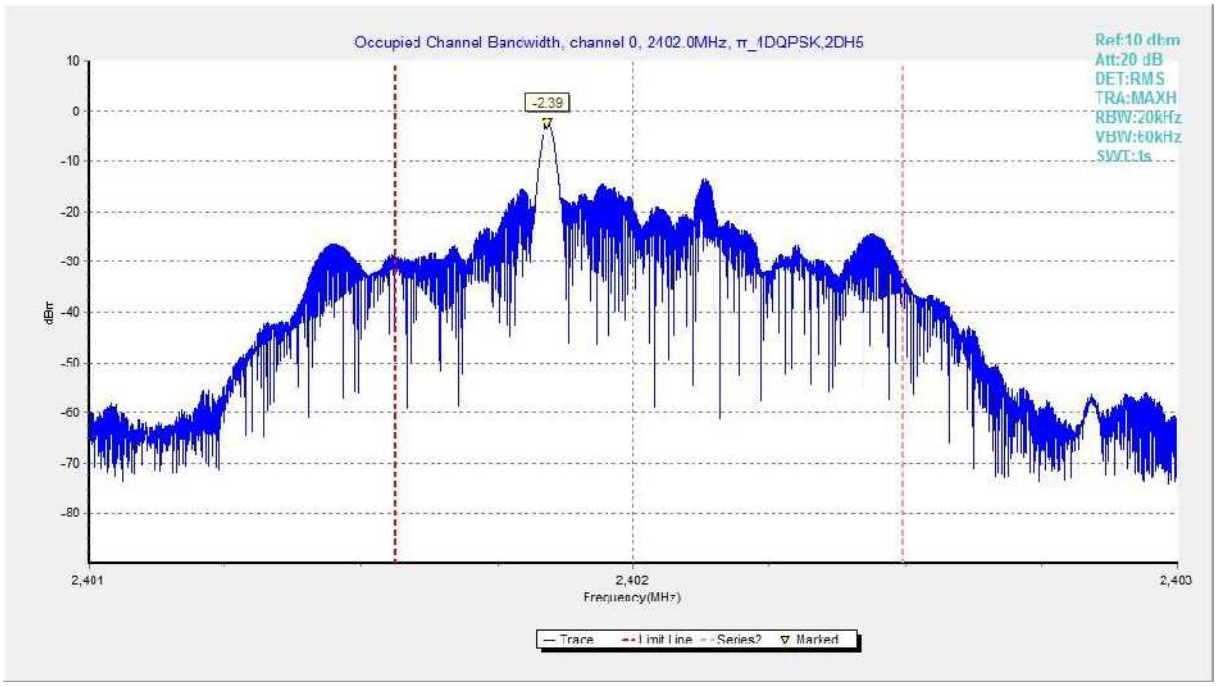

Fig. 45 Occupied Bandwidth: π/4 DQPSK, Channel 0

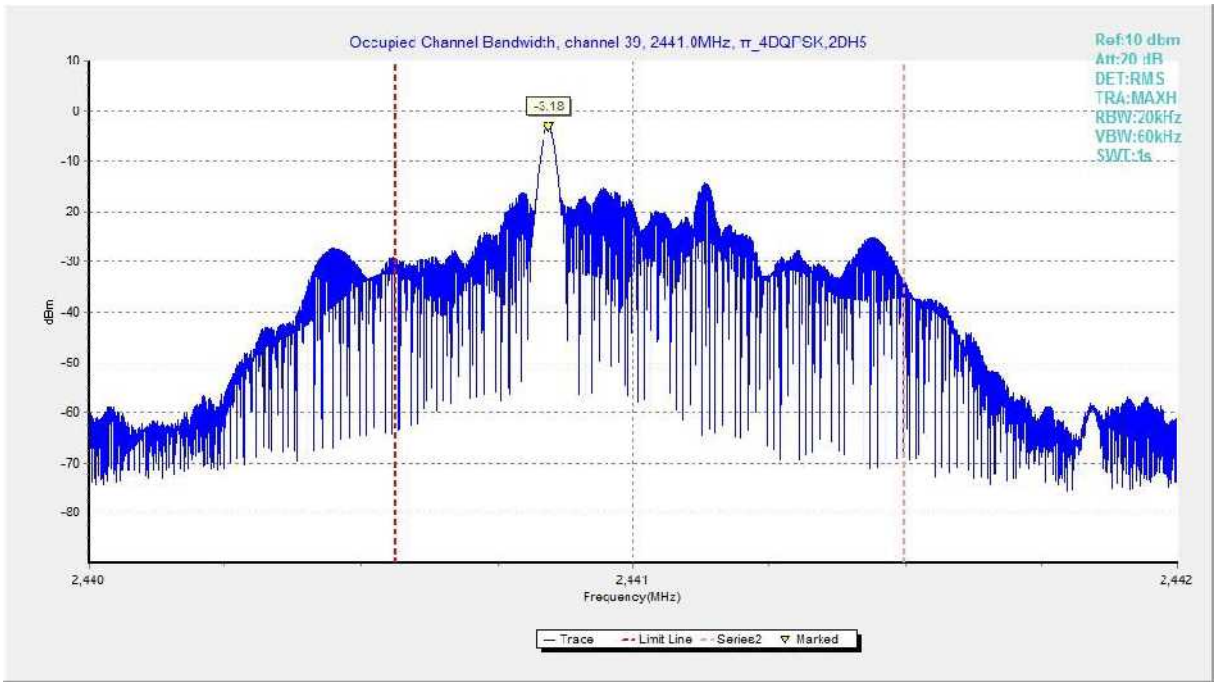

Fig. 46 Occupied Bandwidth: π/4 DQPSK, Channel 39

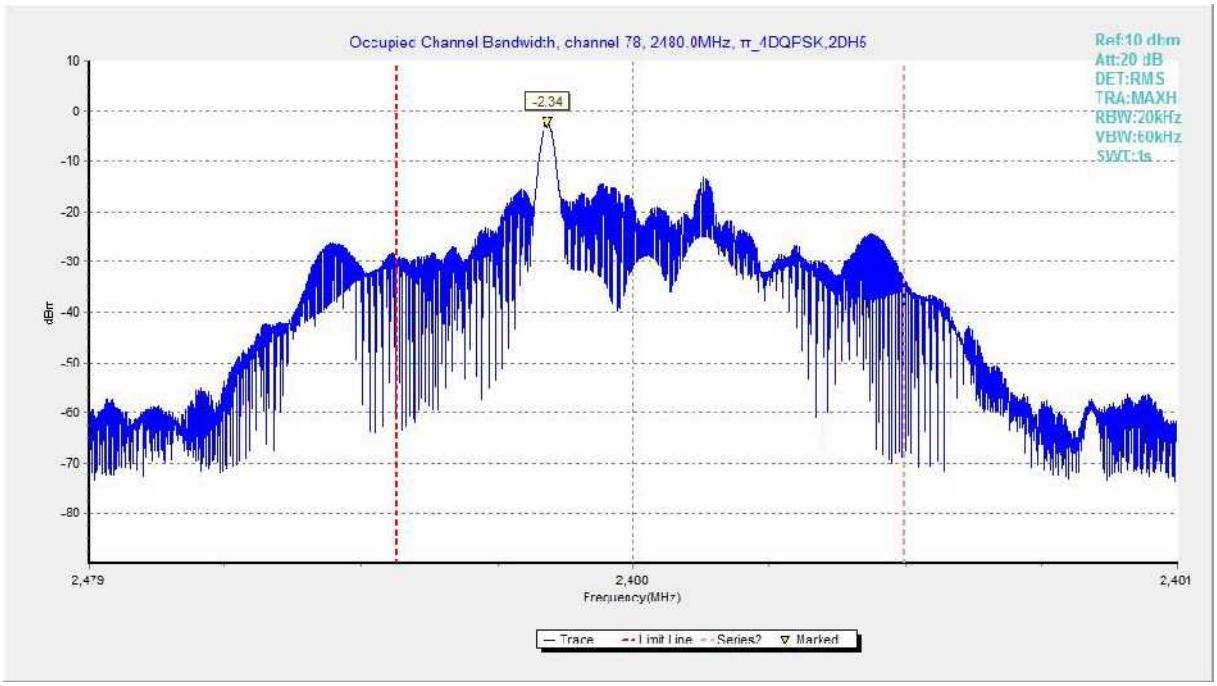

Fig. 47 Occupied Bandwidth: π/4 DQPSK, Channel 78

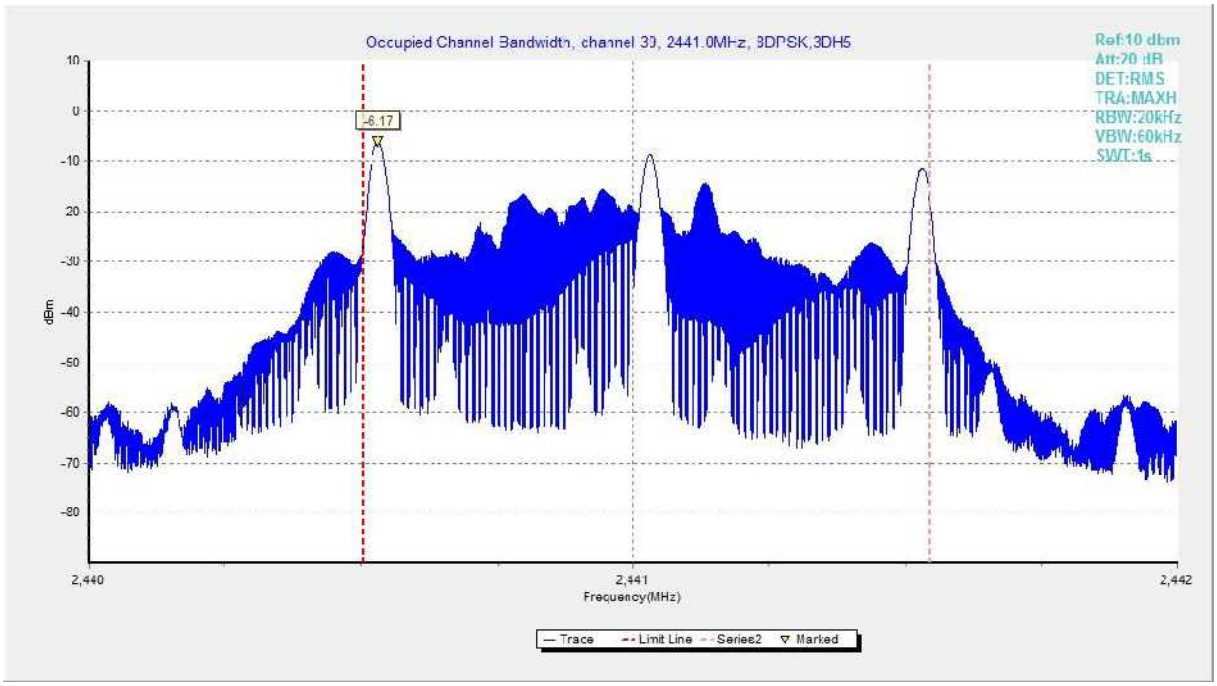

Fig. 48 Occupied Bandwidth: 8DPSK, Channel 0

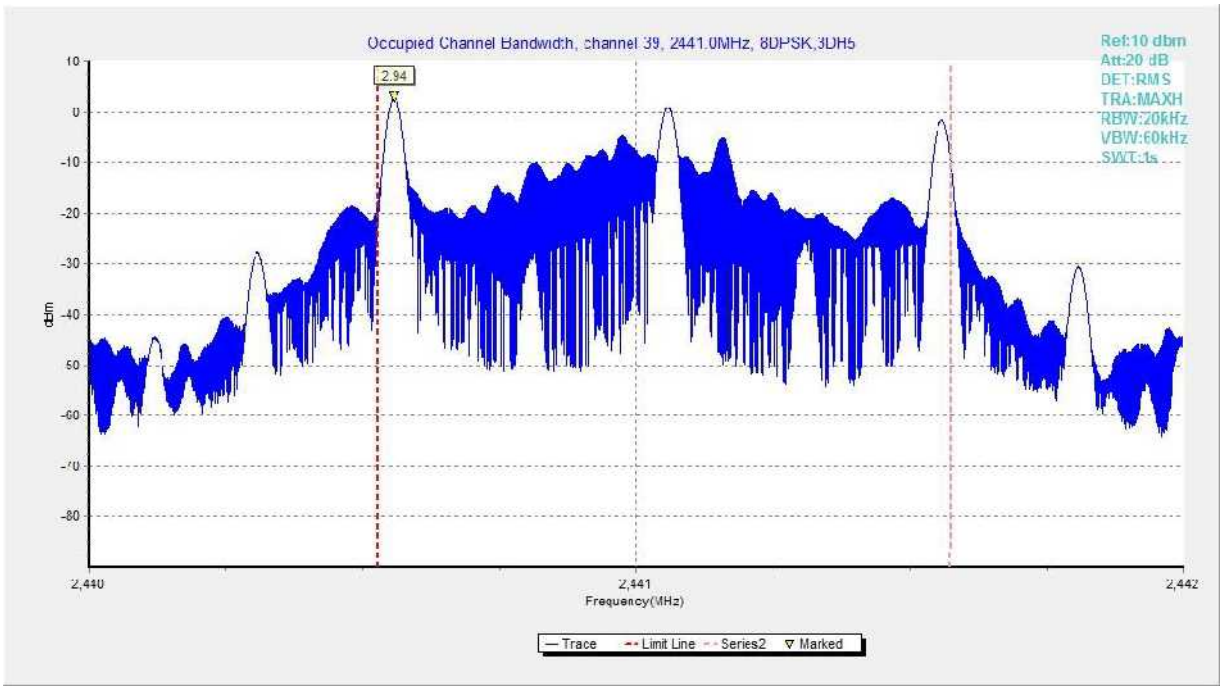

Fig. 49 Occupied Bandwidth: 8DPSK, Channel 39

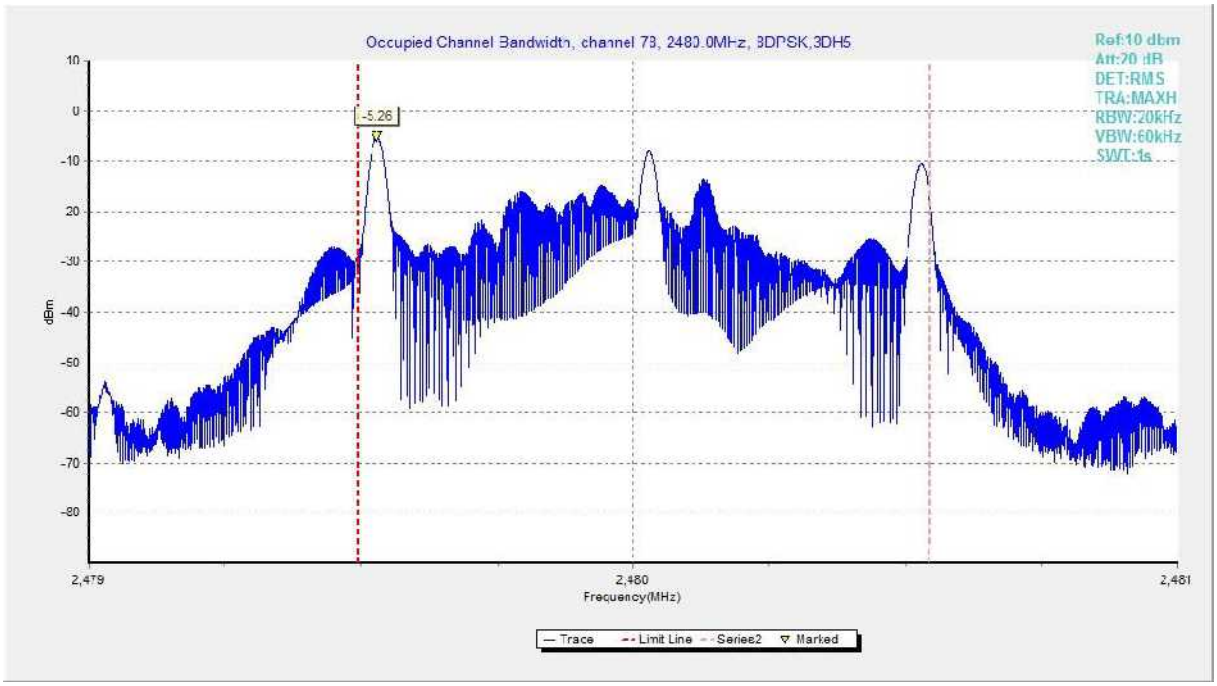

Fig. 50 Occupied Bandwidth: 8DPSK, Channel 78

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