

Fig.36. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 3GHz - 10GHz

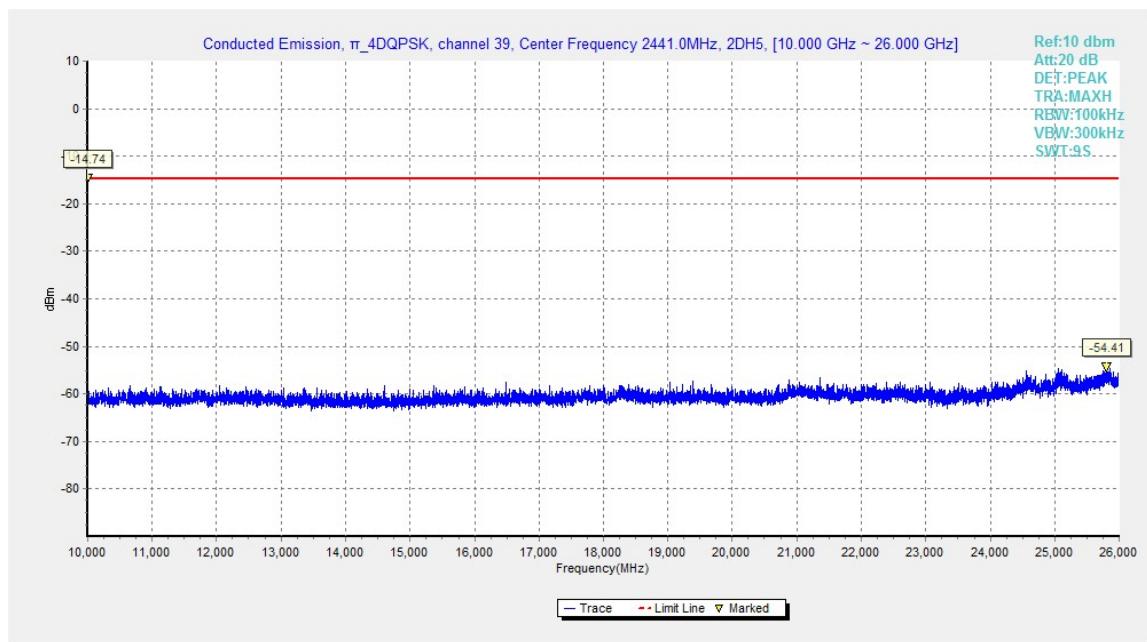


Fig.37. Conducted spurious emission: $\pi/4$ DQPSK, Channel 39, 10GHz – 26GHz

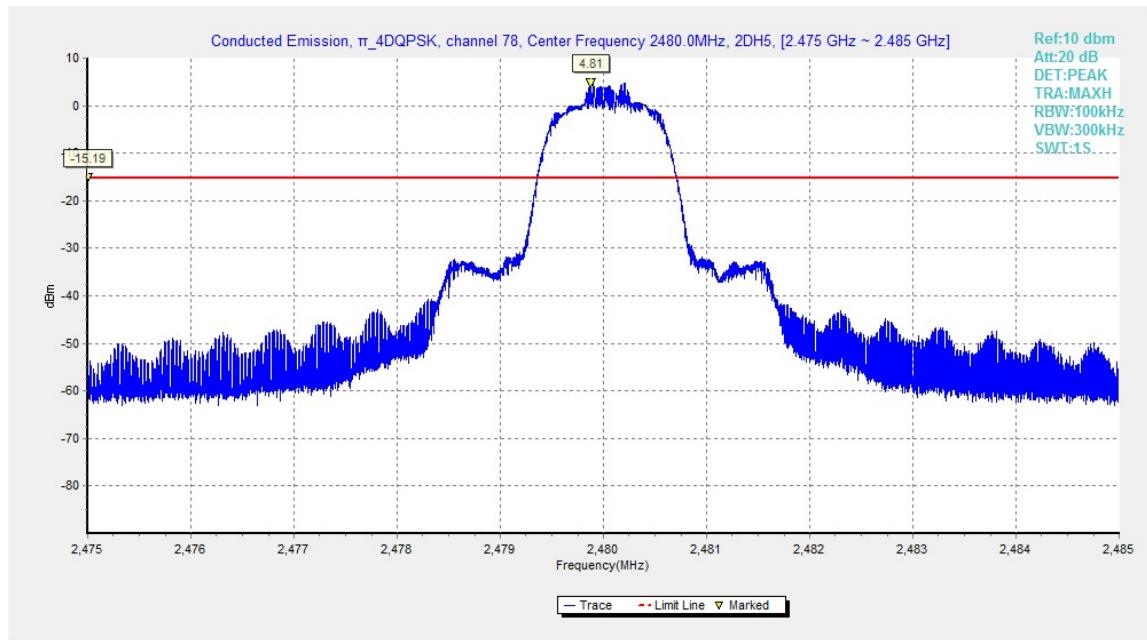


Fig.38. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 2480MHz

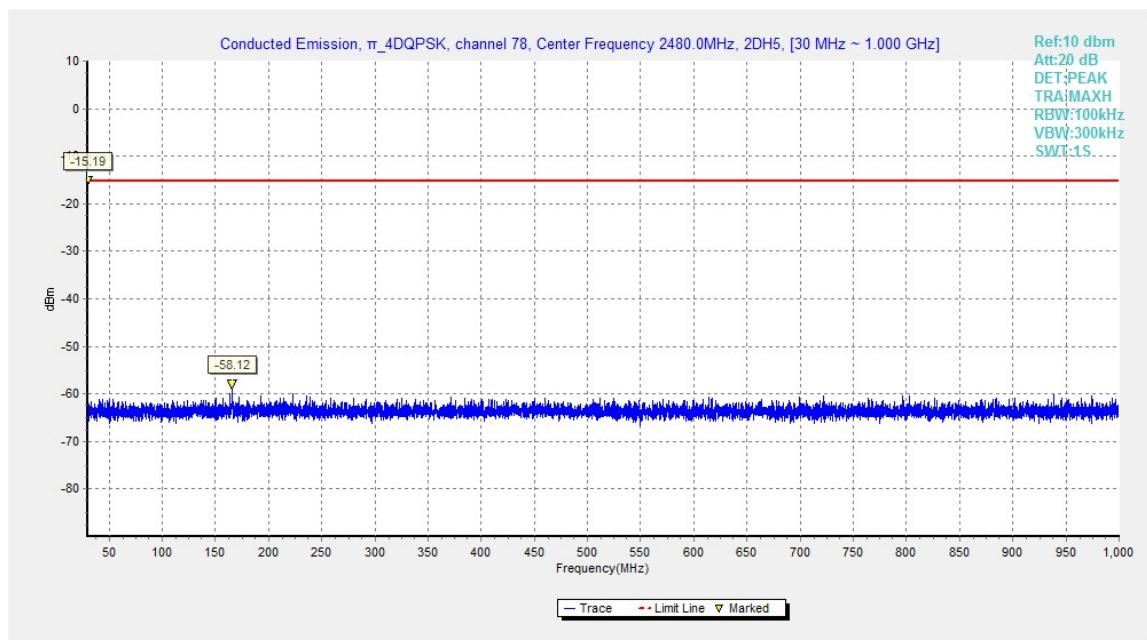


Fig.39. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 30MHz - 1GHz

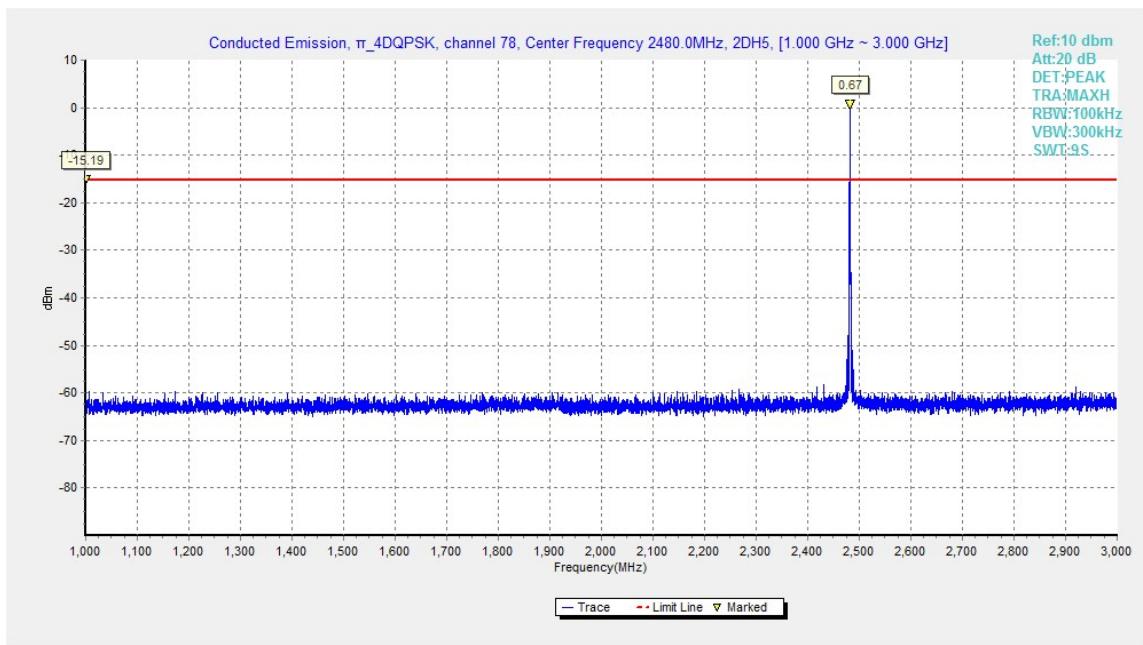


Fig.40. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 1GHz - 3GHz

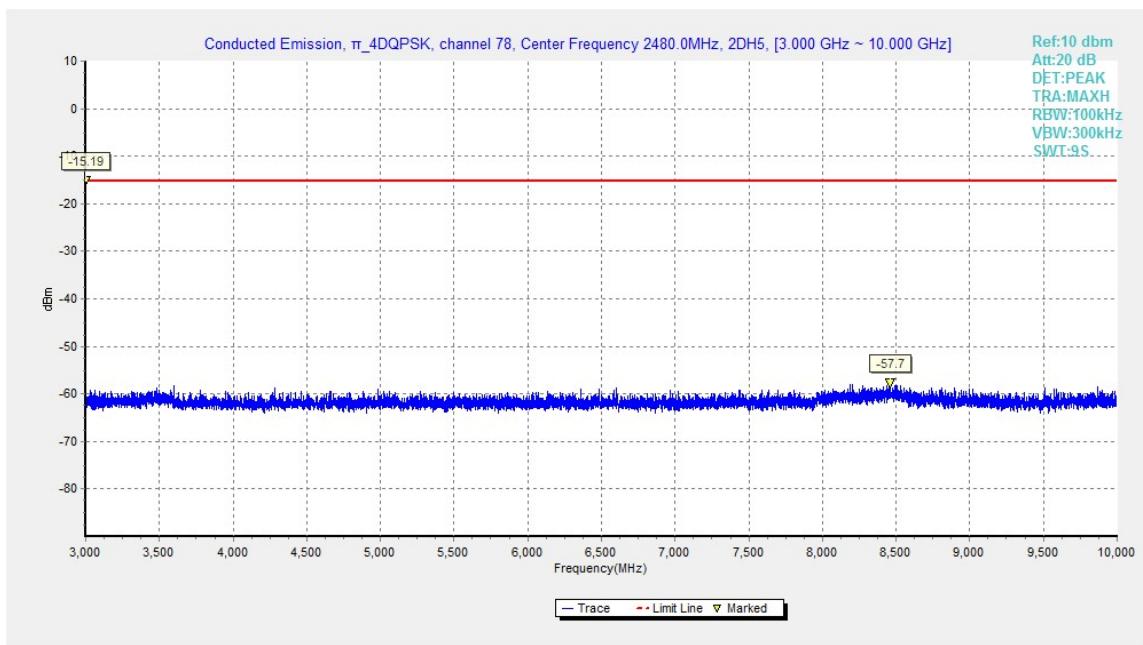


Fig.41. Conducted spurious emission: $\pi/4$ DQPSK, Channel 78, 3GHz - 10GHz

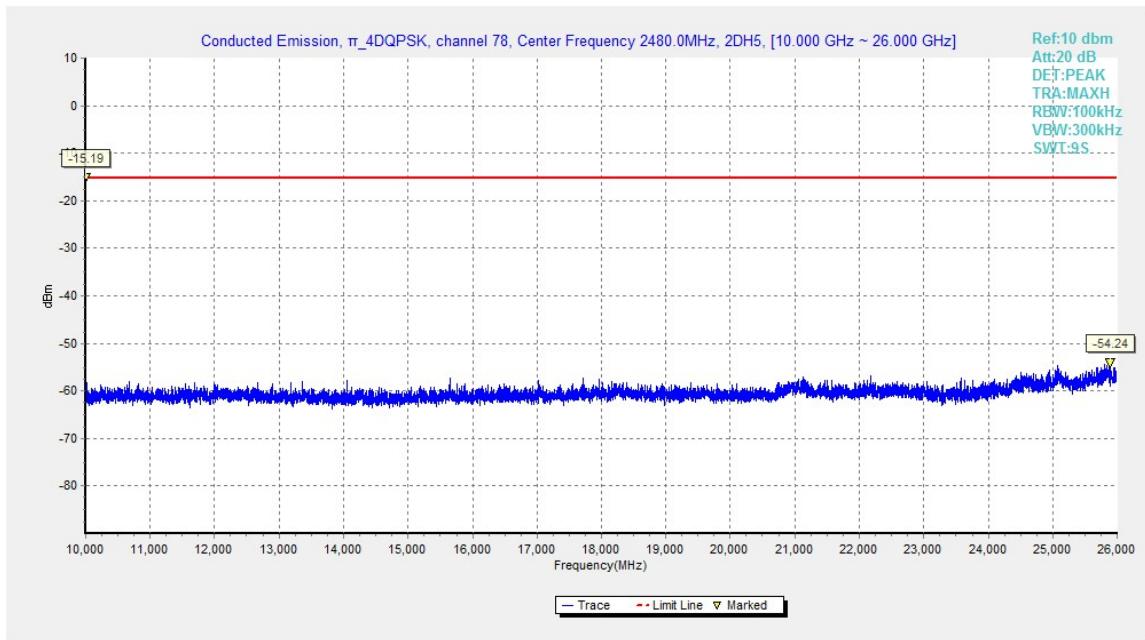


Fig.42. Fig.30 Conducted spurious emission: π/4 DQPSK, Channel 78, 10GHz - 26GHz

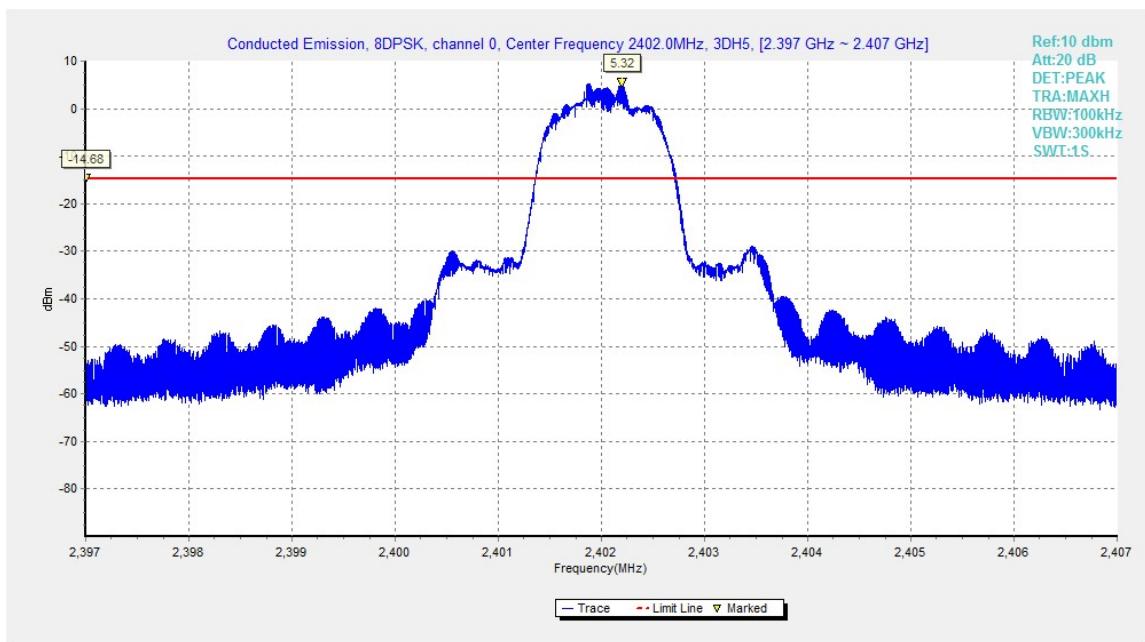


Fig.43. Conducted spurious emission: 8DPSK, Channel 0, 2402MHz

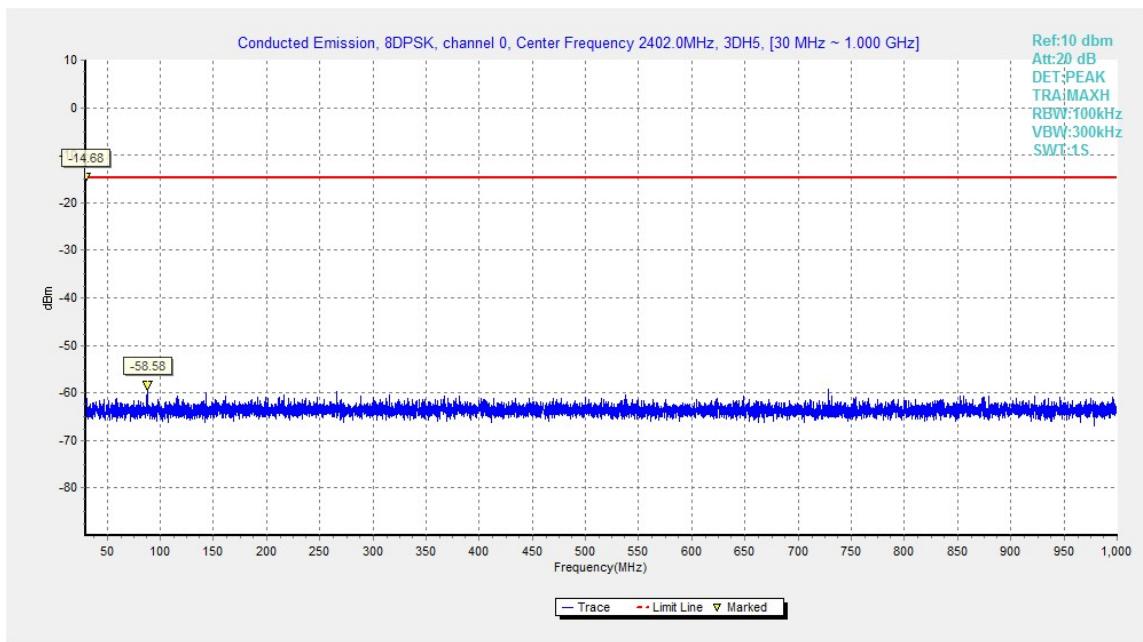


Fig.44. Conducted spurious emission: 8DPSK, Channel 0, 30MHz - 1GHz

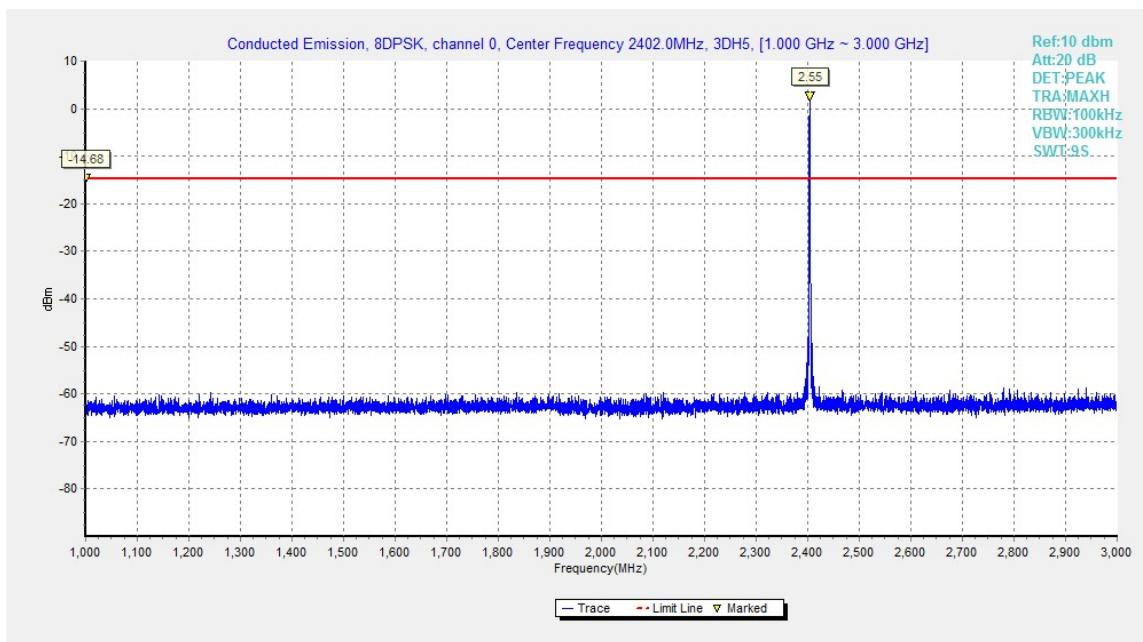


Fig.45. Conducted spurious emission: 8DPSK, Channel 0, 1GHz - 3GHz

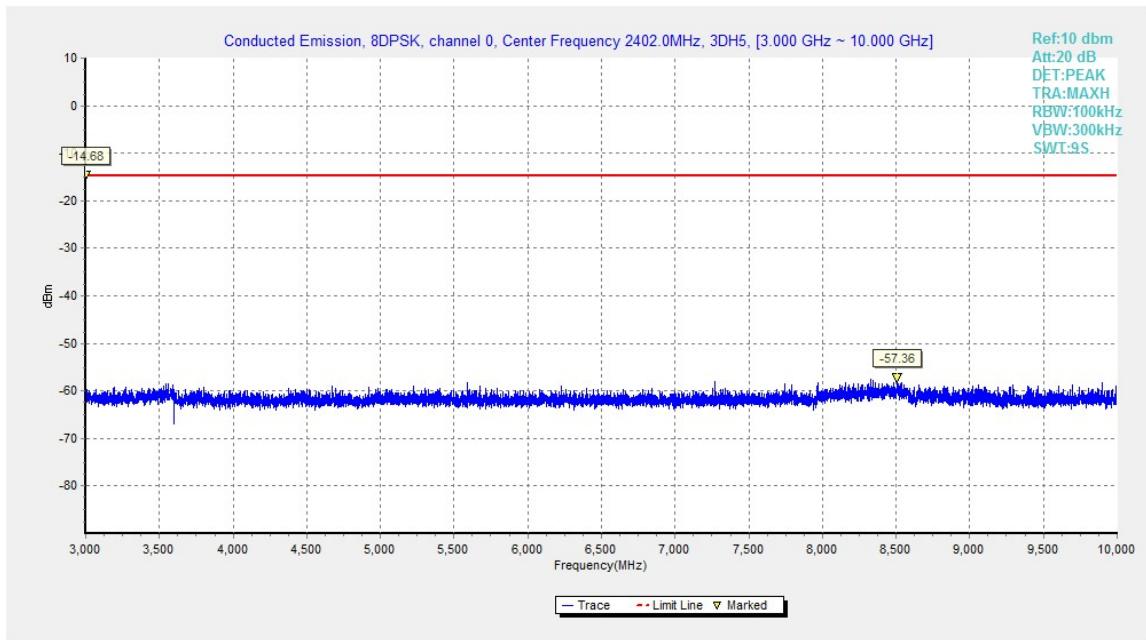


Fig.46. Conducted spurious emission: 8DPSK, Channel 0, 3GHz - 10GHz

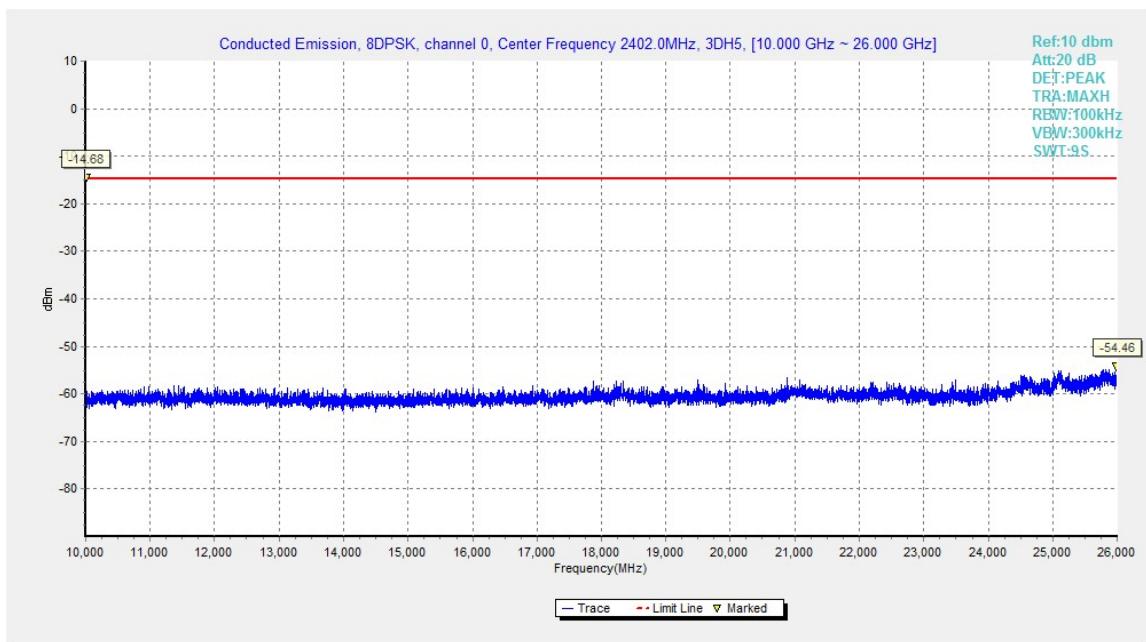


Fig.47. Conducted spurious emission: 8DPSK, Channel 0, 10GHz - 26GHz

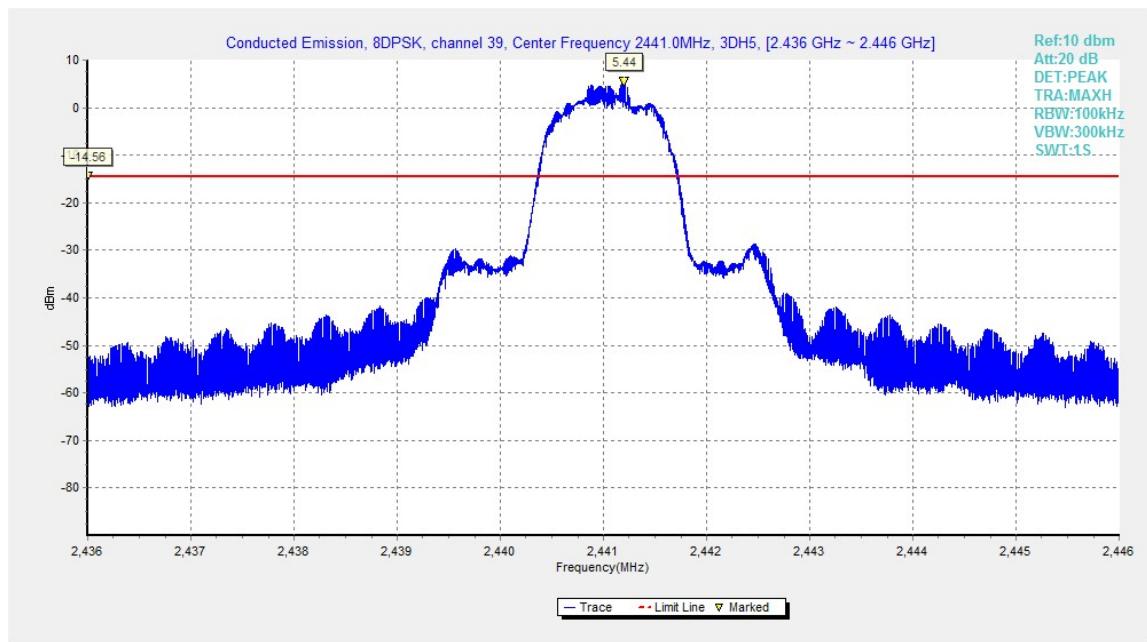


Fig.48. Conducted spurious emission: 8DPSK, Channel 39, 2441MHz

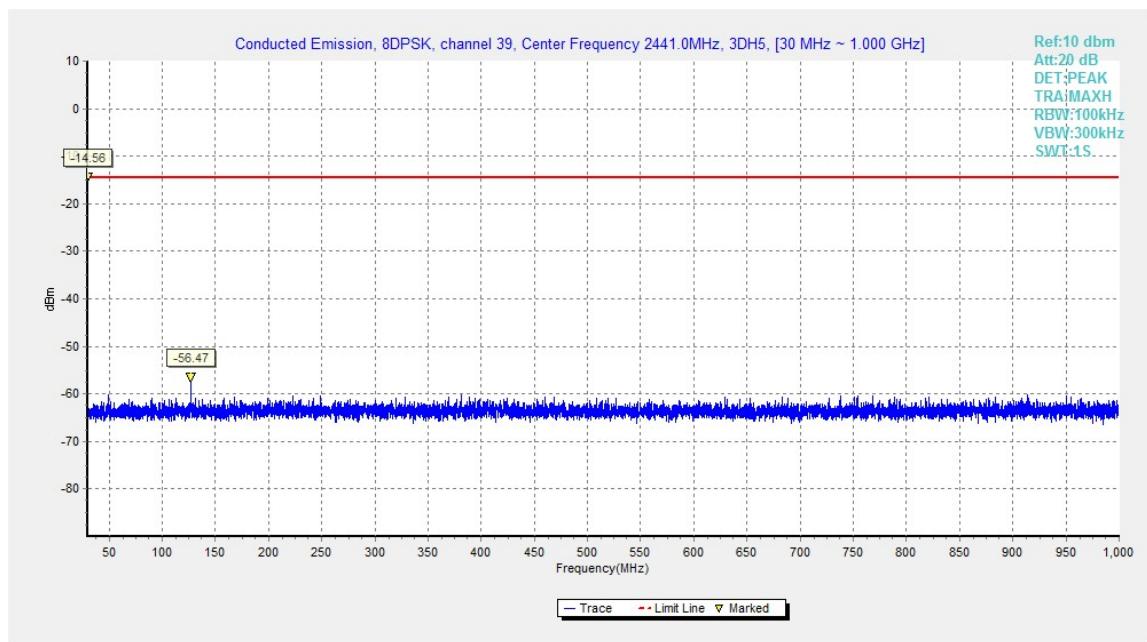


Fig.49. Conducted spurious emission: 8DPSK, Channel 39, 30MHz - 1GHz

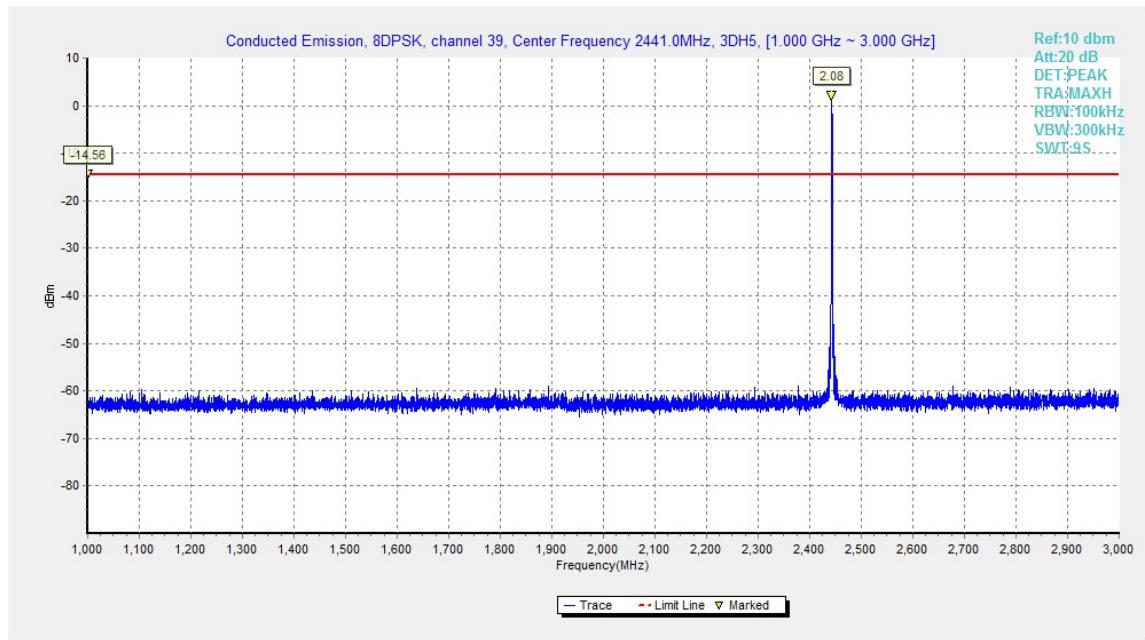


Fig.50. Conducted spurious emission: 8DPSK, Channel 39, 1GHz - 3GHz

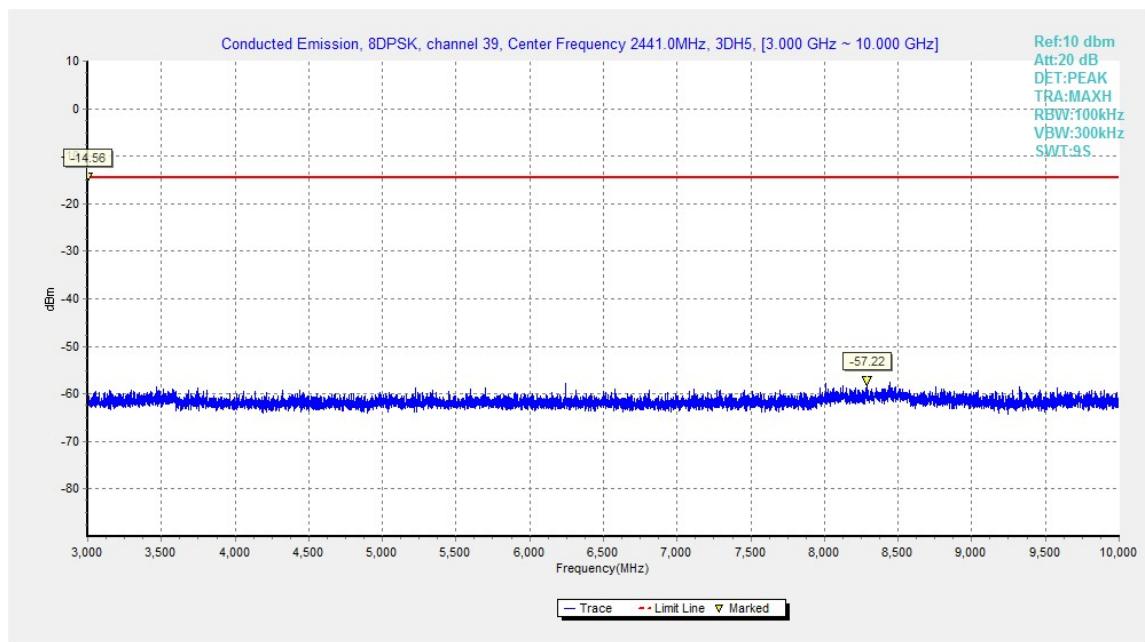


Fig.51. Conducted spurious emission: 8DPSK, Channel 39, 3GHz - 10GHz

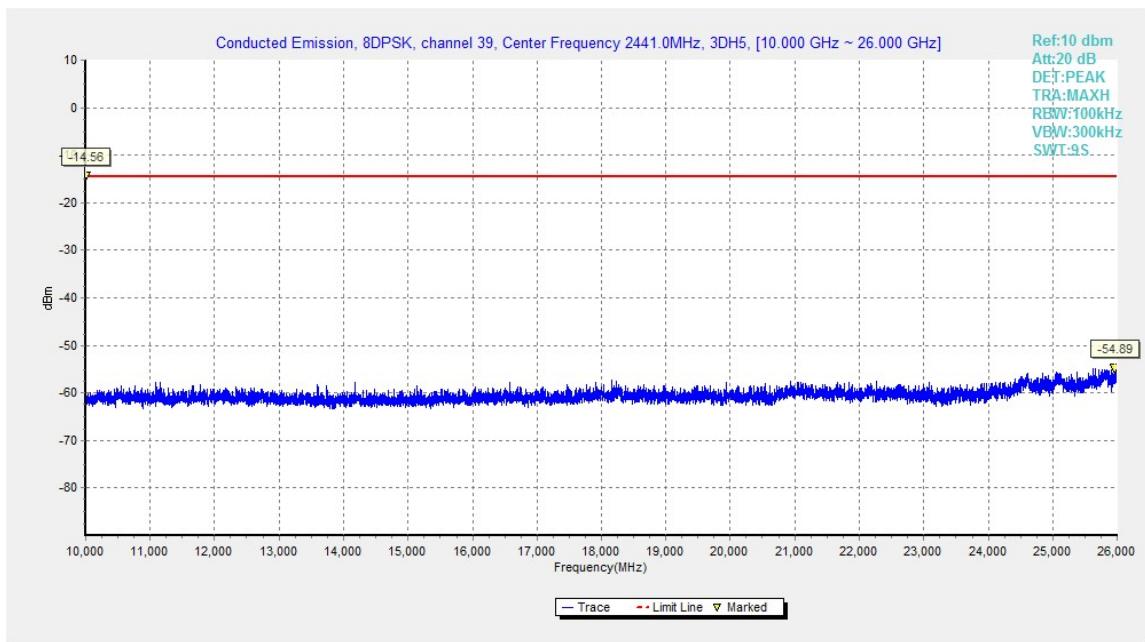


Fig.52. Conducted spurious emission: 8DPSK, Channel 39, 10GHz – 26GHz

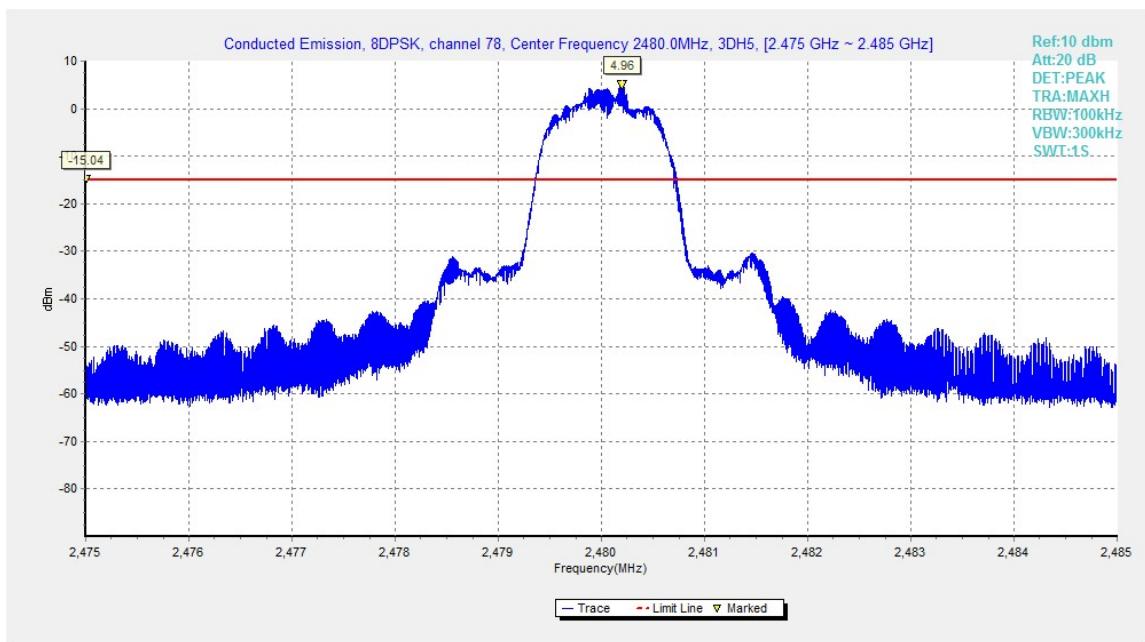


Fig.53. Conducted spurious emission: 8DPSK, Channel 78, 2480MHz

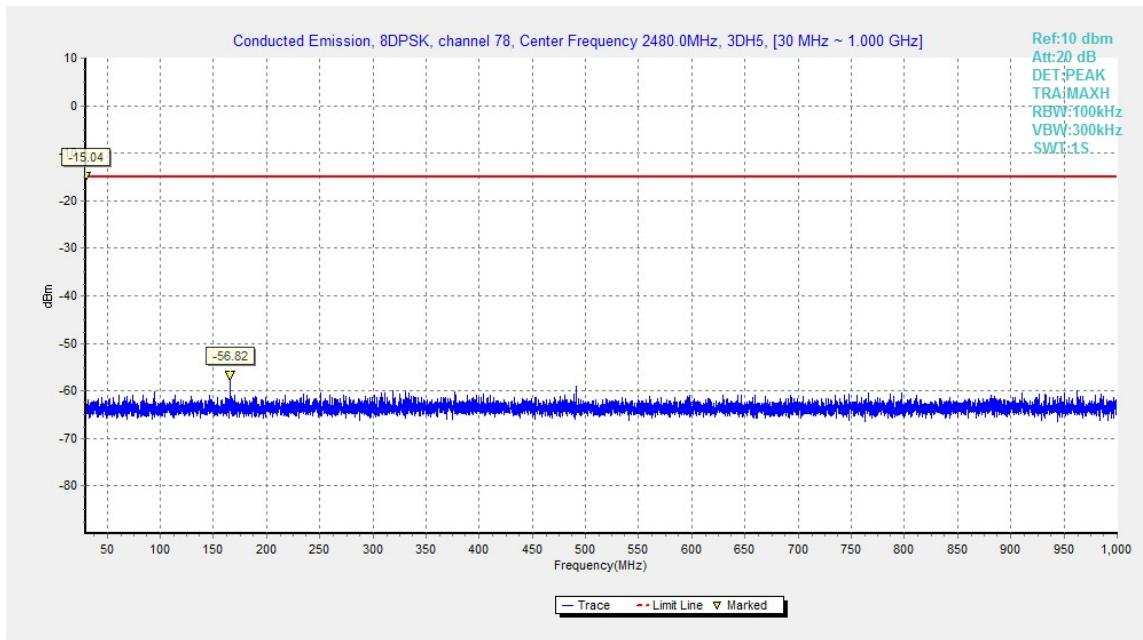


Fig.54. Conducted spurious emission: 8DPSK, Channel 78, 30MHz - 1GHz

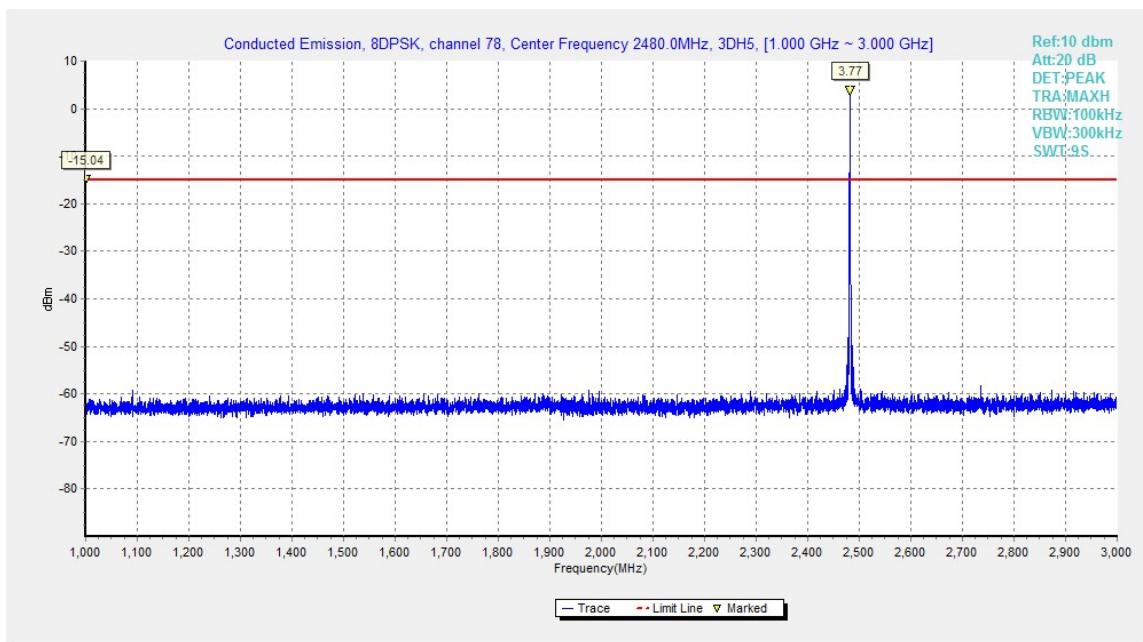


Fig.55. Conducted spurious emission: 8DPSK, Channel 78, 1GHz - 3GHz

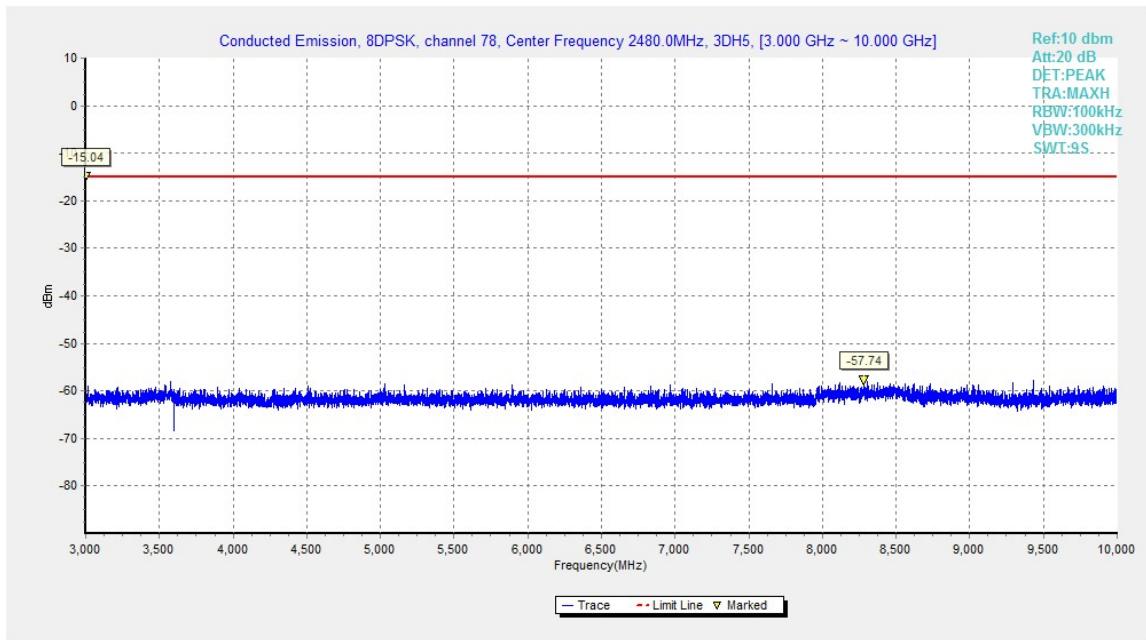


Fig.56. Conducted spurious emission: 8DPSK, Channel 78, 3GHz - 10GHz

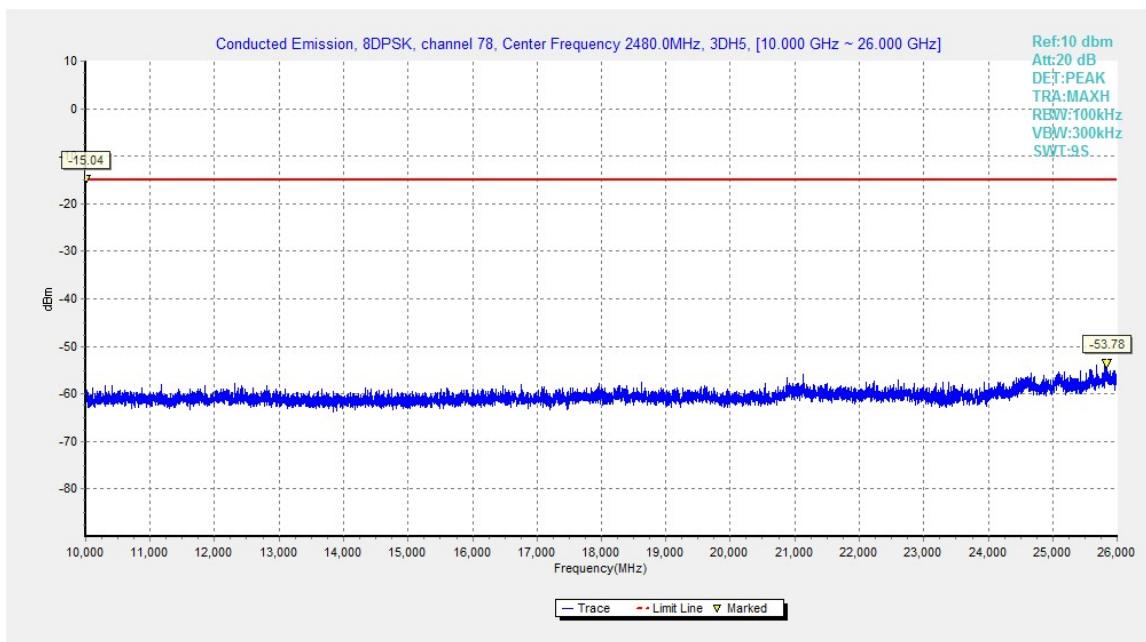


Fig.57. Conducted spurious emission: 8DPSK, Channel 78, 10GHz - 26GHz

A.5. Radiated Emission

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 3/10 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 for Set.10:

 Result= $P_{Mea} + ARPL$
For GFSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.58	P
	3 GHz ~ 18 GHz	Fig.59	P
Ch 39 2440 MHz	9 kHz ~ 30 MHz	Fig.60	P
	30 MHz ~ 1 GHz	Fig.61	P
	1 GHz ~ 3 GHz	Fig.62	P
	3 GHz ~ 18 GHz	Fig.63	P
Ch 78 2480 MHz	1 GHz ~ 3 GHz	Fig.64	P
	3 GHz ~ 18 GHz	Fig.65	P
Power	2.38GHz~2.4GHz---L	Fig.66	P
Power	2.45GHz~2.5GHz---H	Fig.67	P
For all channels	18 GHz ~ 26 GHz	Fig.68	P

For π/4 DQPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.69	P
	3 GHz ~ 18 GHz	Fig.70	P
Ch 39 2440 MHz	30 MHz ~ 1 GHz	Fig.71	P
	1 GHz ~ 3 GHz	Fig.72	P
	3 GHz ~ 18 GHz	Fig.73	P
	1 GHz ~ 3 GHz	Fig.74	P
Ch 78 2480 MHz	3 GHz ~ 18 GHz	Fig.75	P
	2.38GHz~2.4GHz---L	Fig.76	P
Power	2.45GHz~2.5GHz---H	Fig.77	P
For all channels	18 GHz ~ 26 GHz	Fig.78	P

For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.79	P
	3 GHz ~ 18 GHz	Fig.80	P
Ch 39 2440 MHz	30 MHz ~ 1 GHz	Fig.81	P
	1 GHz ~ 3 GHz	Fig.82	P
	3 GHz ~ 18 GHz	Fig.83	P
	1 GHz ~ 3 GHz	Fig.84	P
Ch 78 2480 MHz	3 GHz ~ 18 GHz	Fig.85	P
	2.38GHz~2.4GHz---L	Fig.86	P
Power	2.45GHz~2.5GHz---H	Fig.87	P
For all channels	18 GHz ~ 26 GHz	Fig.88	P

GFSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2386.888	46.6	2.9	32.0	11.752	54.0	7.4	H
2388.720	46.6	2.9	32.0	11.766	54.0	7.4	V
4804.500	37.4	-17.3	34.5	20.207	54.0	16.6	H
7206.000	39.4	-16.4	36.1	19.727	54.0	14.6	H
9607.500	38.3	-18.2	37.0	19.582	54.0	15.7	H
12010.500	41.3	-17.4	39.3	19.397	54.0	12.7	H

GFSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2384.470	46.8	2.9	32.0	11.896	54.0	7.2	H
2488.500	47.8	2.9	32.6	12.230	54.0	6.2	H
4882.500	36.2	-18.5	34.5	20.219	54.0	17.8	H
7323.000	37.2	-18.5	36.1	19.656	54.0	16.8	H
9763.500	39.0	-17.8	37.2	19.587	54.0	15.0	H
12205.500	40.4	-17.8	39.2	18.959	54.0	13.6	H

GFSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.630	49.1	2.9	32.8	13.436	54.0	4.9	H
2485.000	47.9	2.9	32.7	12.254	54.0	6.1	H
4960.500	36.8	-18.2	34.5	20.520	54.0	17.2	H
7440.000	38.8	-16.9	36.0	19.714	54.0	15.2	H
9919.500	39.9	-17.1	37.4	19.563	54.0	14.1	H
12240.000	40.5	-17.8	39.2	19.103	54.0	13.5	H

GFSK Ch 0 – Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2385.222	59.7	2.9	32.0	24.798	74.0	14.3	H
2389.114	59.4	2.9	32.0	24.575	74.0	14.6	H
17684.250	59.5	-13.1	41.1	31.580	74.0	14.5	V
17790.000	59.4	-13.4	41.0	31.843	74.0	14.6	V
17295.000	59.3	-14.0	41.2	32.080	74.0	14.7	H
17421.750	59.3	-14.7	41.2	32.799	74.0	14.7	H

GFSK Ch 39 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2366.600	49.5	-27.2	32.0	44.749	74.0	24.5	H
2506.400	51.0	-26.4	32.4	45.052	74.0	23.0	V
17937.000	59.9	-13.6	40.9	32.621	74.0	14.1	V
17632.500	59.6	-13.0	41.1	31.542	74.0	14.4	V
17655.750	59.6	-13.1	41.1	31.578	74.0	14.4	V
17635.500	59.4	-13.0	41.1	31.346	74.0	14.6	V

GFSK Ch 78 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.880	64.4	2.9	32.8	28.766	74.0	9.6	V
2484.220	64.5	2.9	32.7	28.822	74.0	9.5	H
17610.750	60.2	-13.2	41.1	32.330	74.0	13.8	H
17334.750	59.7	-14.2	41.2	32.713	74.0	14.3	H
17653.500	59.5	-13.1	41.1	31.509	74.0	14.5	V
2483.880	64.4	2.9	32.8	28.766	74.0	9.6	V

$\pi/4$ DQPSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2383.262	46.7	2.9	32.0	11.777	54.0	7.3	V
2386.400	46.8	2.9	32.0	11.880	54.0	7.2	H
4804.500	37.4	-17.3	34.5	20.142	54.0	16.6	H
7206.000	39.4	-16.4	36.1	19.673	54.0	14.6	H
9607.500	38.3	-18.2	37.0	19.573	54.0	15.7	H
12010.500	41.3	-17.4	39.3	19.368	54.0	12.7	H

 $\pi/4$ DQPSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2380.300	46.8	2.9	32.1	11.860	54.0	7.2	H
2486.900	47.9	2.9	32.7	12.260	54.0	6.1	V
4882.500	36.1	-18.5	34.5	20.135	54.0	17.9	H
7323.000	37.1	-18.5	36.1	19.511	54.0	16.9	H
9763.500	39.1	-17.8	37.2	19.601	54.0	14.9	H
12205.500	40.4	-17.8	39.2	18.935	54.0	13.6	H

 $\pi/4$ DQPSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.660	48.6	2.9	32.8	12.886	54.0	5.4	V
2484.400	48.0	2.9	32.7	12.355	54.0	6.0	H
4960.500	36.6	-18.2	34.5	20.315	54.0	17.4	H
7440.000	38.9	-16.9	36.0	19.771	54.0	15.1	H
9919.500	39.9	-17.1	37.4	19.538	54.0	14.1	H
12240.000	40.5	-17.8	39.2	19.090	54.0	13.5	H

$\pi/4$ DQPSK Ch 0 – Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2381.344	59.6	2.9	32.0	24.653	74.0	14.4	H
2387.084	59.3	2.9	32.0	24.436	74.0	14.7	H
17250.750	59.5	-14.2	41.2	32.433	74.0	14.5	V
17579.250	59.4	-13.6	41.1	31.840	74.0	14.6	H
17823.000	59.3	-13.5	40.9	31.856	74.0	14.7	H
17622.750	59.3	-13.1	41.1	31.278	74.0	14.7	V

 $\pi/4$ DQPSK Ch 39 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2371.400	50.1	-26.9	32.0	45.013	74.0	23.9	V
2551.800	52.0	-26.8	33.1	45.700	74.0	22.0	H
17286.750	59.2	-13.9	41.2	31.977	74.0	14.8	H
17580.750	59.1	-13.6	41.1	31.504	74.0	14.9	V
17621.250	59.0	-13.1	41.1	31.068	74.0	15.0	V
2371.400	50.1	-26.9	32.0	45.013	74.0	23.9	V

 $\pi/4$ DQPSK Ch 78 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.980	63.4	2.9	32.7	27.670	74.0	10.7	H
2484.300	61.8	2.9	32.7	26.119	74.0	12.2	H
17661.750	59.8	-13.1	41.1	31.831	74.0	14.2	V
17284.500	59.5	-13.9	41.2	32.276	74.0	14.5	V
17586.750	59.4	-13.5	41.1	31.797	74.0	14.6	V
17715.000	59.2	-13.2	41.0	31.440	74.0	14.8	H

8DPSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2380.500	46.8	2.9	32.1	11.836	54.0	7.2	H
2388.899	46.8	2.9	32.0	11.914	54.0	7.2	V
4804.500	37.4	-17.3	34.5	20.188	54.0	16.6	H
7206.000	39.5	-16.4	36.1	19.810	54.0	14.5	H
9607.500	38.2	-18.2	37.0	19.506	54.0	15.8	H
12010.500	41.3	-17.4	39.3	19.348	54.0	12.7	H

8DPSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2389.200	46.8	2.9	32.0	11.936	54.0	7.2	H
2484.000	47.9	2.9	32.7	12.201	54.0	6.1	V
4882.500	36.1	-18.5	34.5	20.096	54.0	17.9	H
7323.000	37.2	-18.5	36.1	19.567	54.0	16.8	H
9763.500	39.1	-17.8	37.2	19.605	54.0	14.9	H
12205.500	40.4	-17.8	39.2	18.965	54.0	13.6	H

8DPSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.540	49.0	2.9	32.8	13.278	54.0	5.0	H
2484.600	47.9	2.9	32.7	12.250	54.0	6.1	H
4960.500	36.7	-18.2	34.5	20.387	54.0	17.3	H
7440.000	38.9	-16.9	36.0	19.762	54.0	15.1	H
9919.500	39.8	-17.1	37.4	19.513	54.0	14.2	H
12240.000	40.5	-17.8	39.2	19.117	54.0	13.5	H

8DPSK Ch 0 – Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2388.834	60.0	2.9	32.0	25.127	74.0	14.0	H
2388.918	60.2	2.9	32.0	25.328	74.0	13.8	V
17630.250	60.3	-13.0	41.1	32.225	74.0	13.7	H
17303.250	59.6	-14.0	41.2	32.412	74.0	14.4	V
17648.250	59.6	-13.0	41.1	31.521	74.0	14.4	H
17649.750	59.5	-13.0	41.1	31.471	74.0	14.5	H

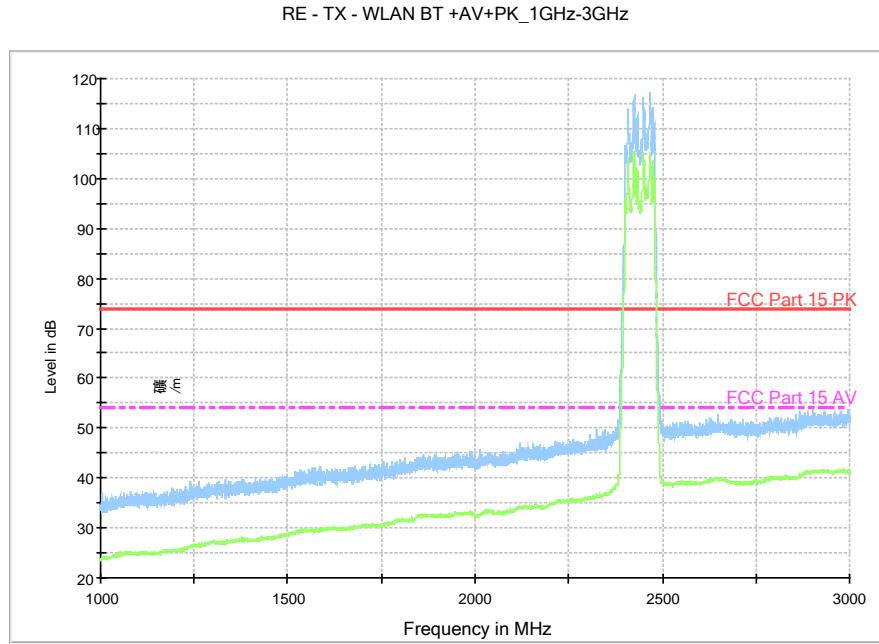
8DPSK Ch 39 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2321.000	49.1	-27.8	31.2	45.680	74.0	24.9	V
2521.200	51.5	-26.7	32.6	45.616	74.0	22.5	H
17228.250	60.1	-14.3	41.2	33.186	74.0	13.9	V
17570.250	59.3	-13.7	41.1	31.838	74.0	14.7	V
17507.250	59.2	-14.4	41.2	32.341	74.0	14.8	V
17944.500	59.1	-13.6	40.8	31.879	74.0	14.9	V

8DPSK Ch 78 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.580	64.5	2.9	32.8	28.831	74.0	9.5	H
2483.670	65.1	2.9	32.8	29.420	74.0	8.9	H
17868.750	60.1	-13.5	40.9	32.721	74.0	13.9	V
17572.500	59.9	-13.7	41.1	32.382	74.0	14.1	H
17709.000	59.5	-13.2	41.0	31.707	74.0	14.5	H
17522.250	59.4	-14.2	41.2	32.403	74.0	14.6	V

Conclusion: PASS
Test graphs as below for Set.10:



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.58. Radiated emission: GFSK, Channel 0, 1 GHz - 3 GHz

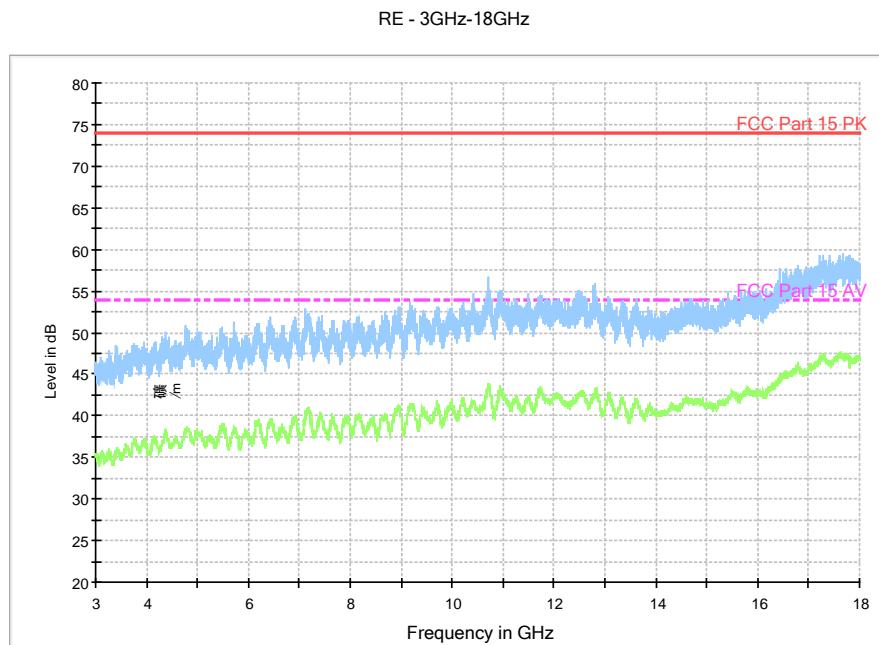


Fig.59. Radiated emission: GFSK, Channel 0, 3 GHz - 18 GHz

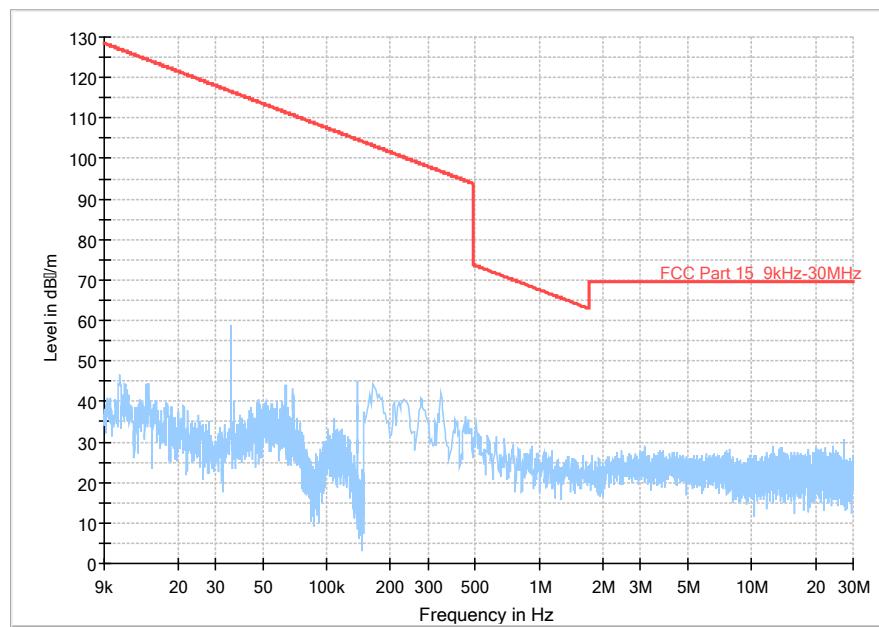


Fig.60. Radiated emission: GFSK, Channel 39, 9 kHz - 30 MHz

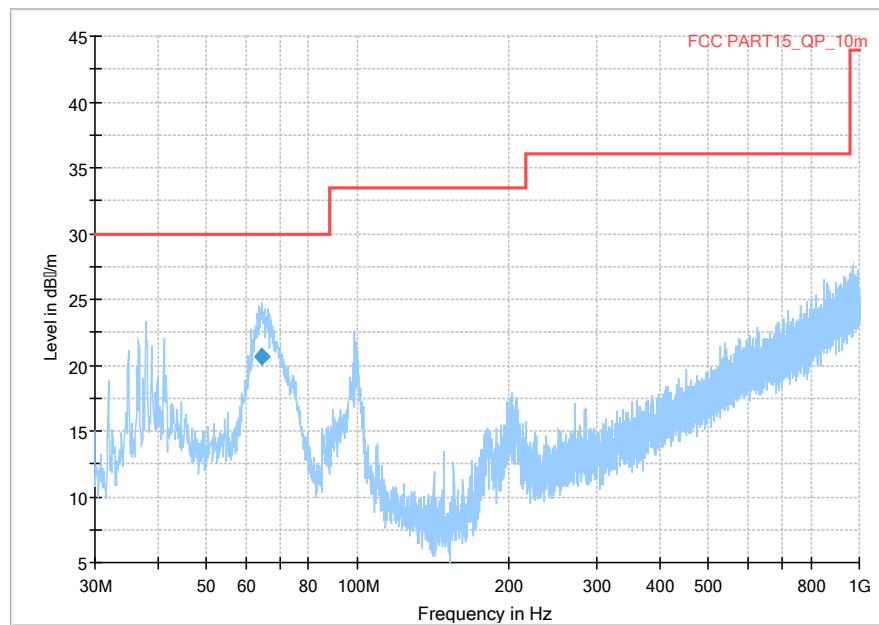
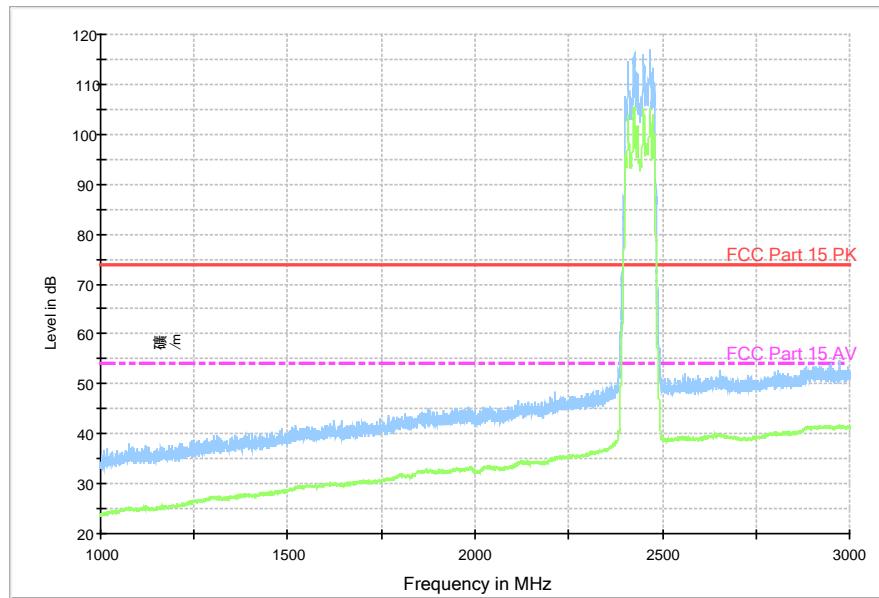


Fig.61. Radiated emission: GFSK, Channel 39, 30 MHz - 1 GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.652000	20.61	30.00	9.39	1000.0	120.000	101.0	V	-30.0	-13.6

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.62. Radiated emission: GFSK, Channel 39, 1 GHz - 3 GHz

RE - 3GHz-18GHz

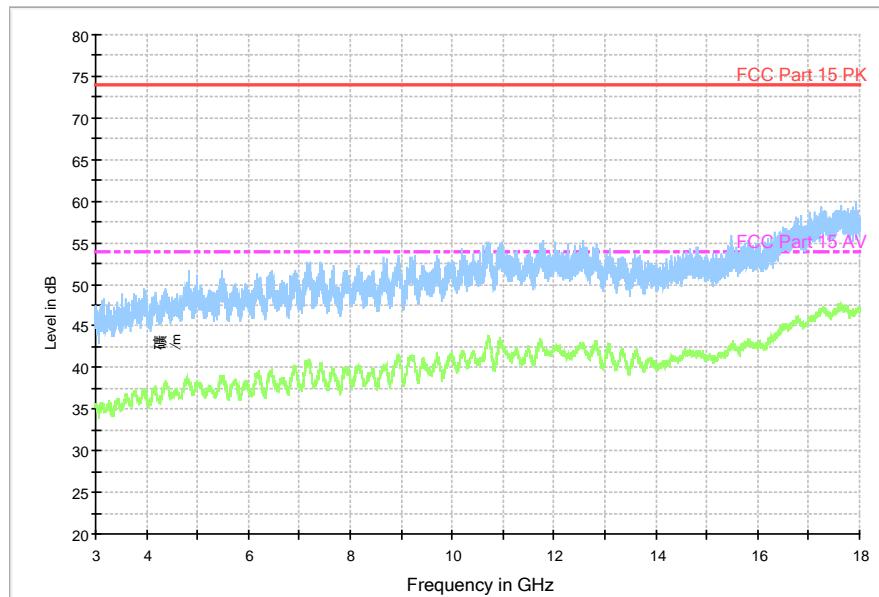
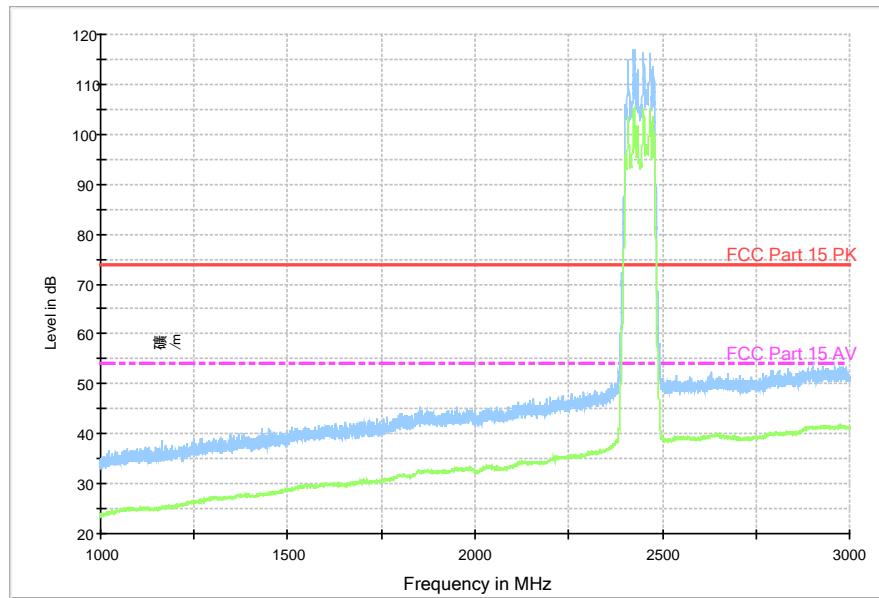


Fig.63. Radiated emission: GFSK, Channel 39, 3 GHz - 18 GHz

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.64. Radiated emission: GFSK, Channel 78, 1 GHz - 3 GHz

RE - 3GHz-18GHz

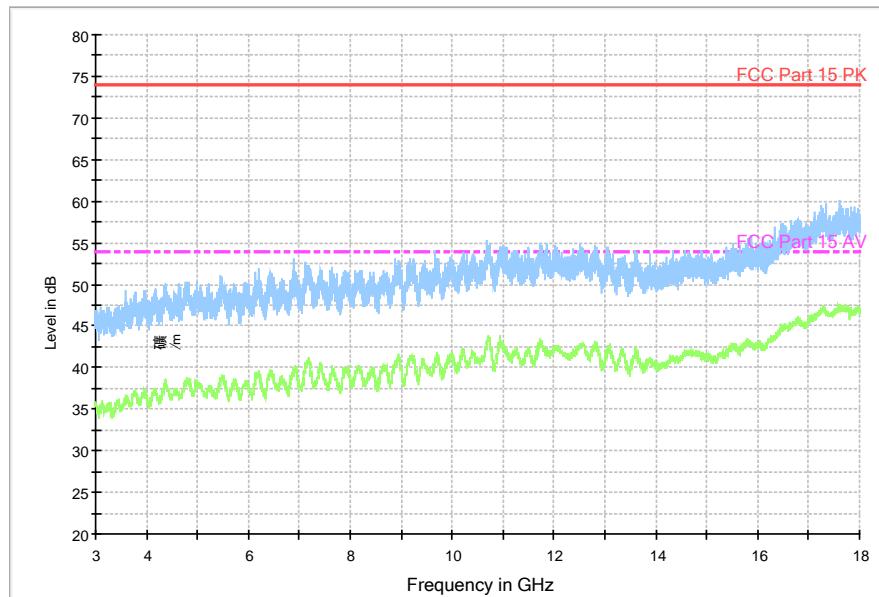


Fig.65. Radiated emission: GFSK, Channel 78, 3 GHz - 18 GHz

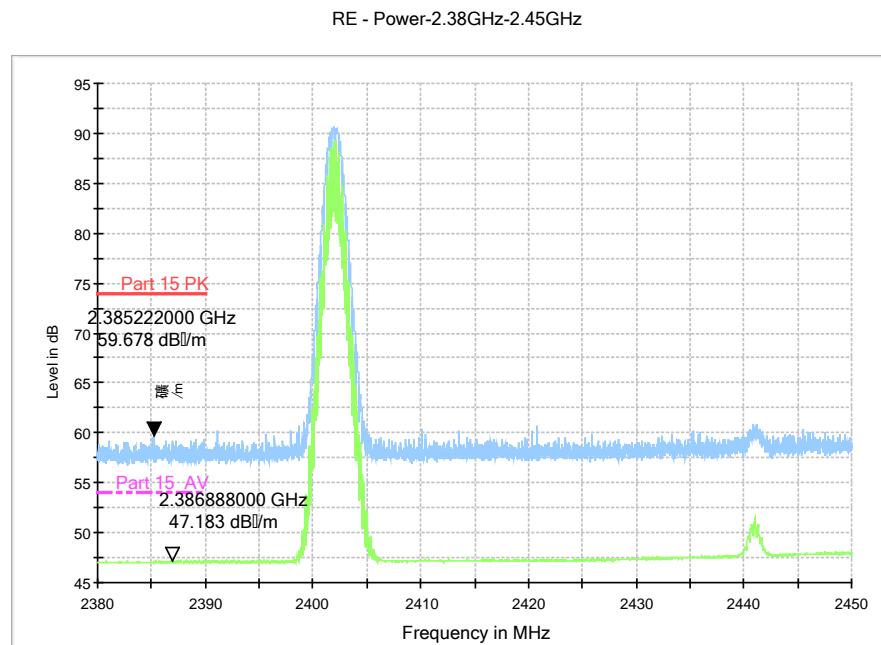


Fig.66. Radiated emission (Power): GFSK, low channel

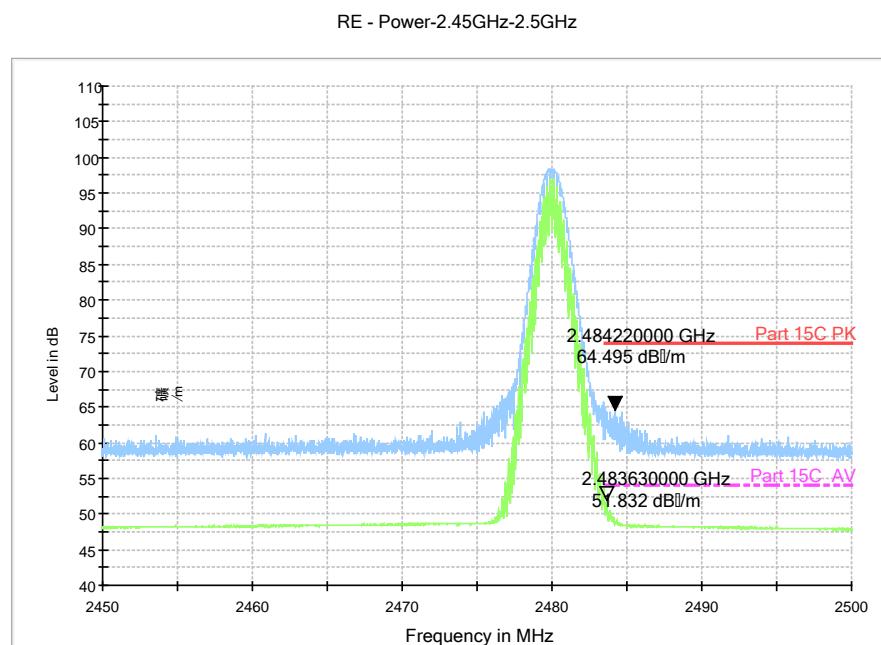


Fig.67. Radiated emission (Power) GFSK, high channel

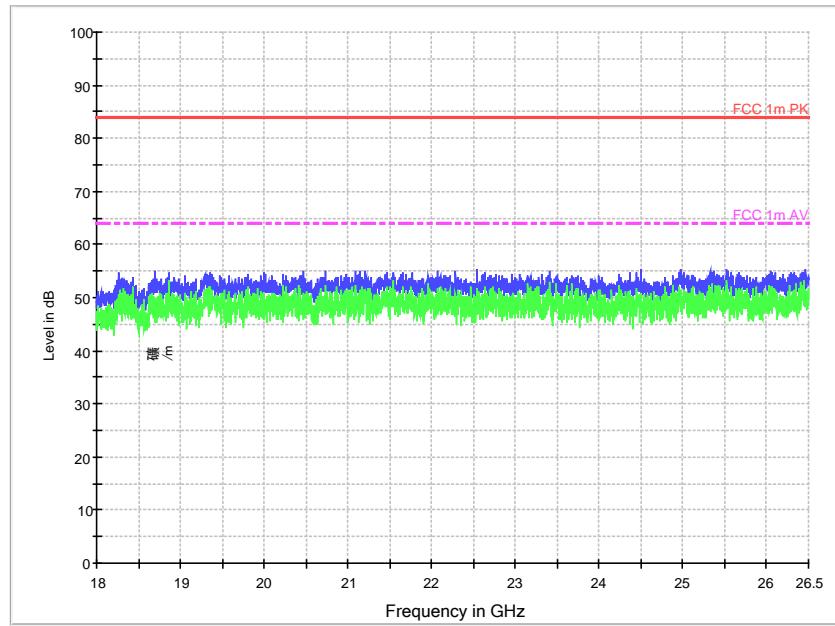
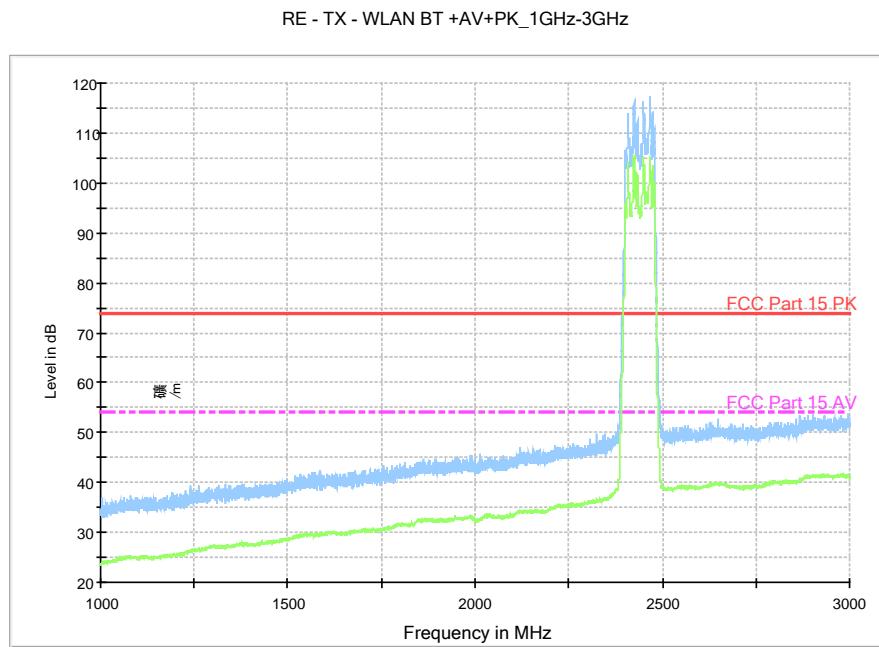
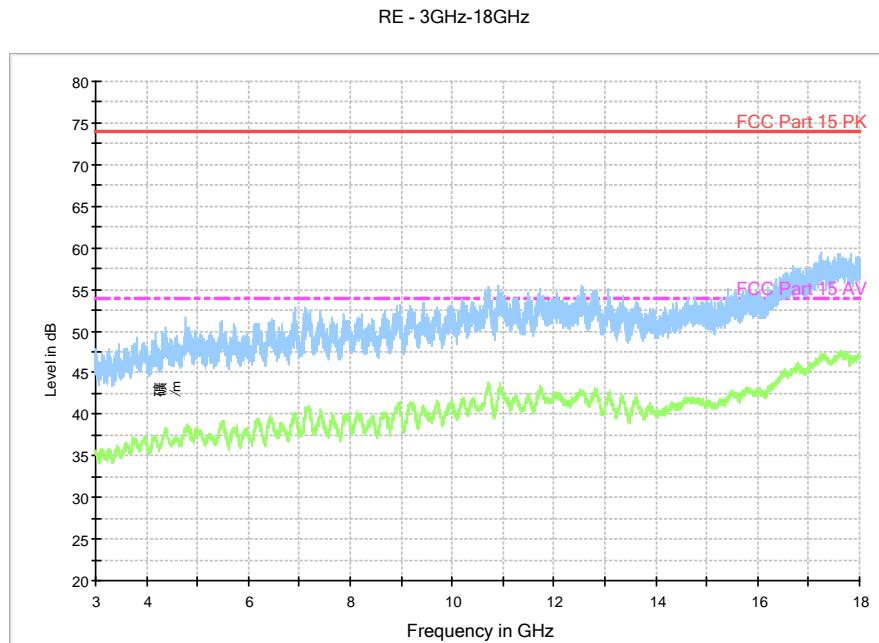
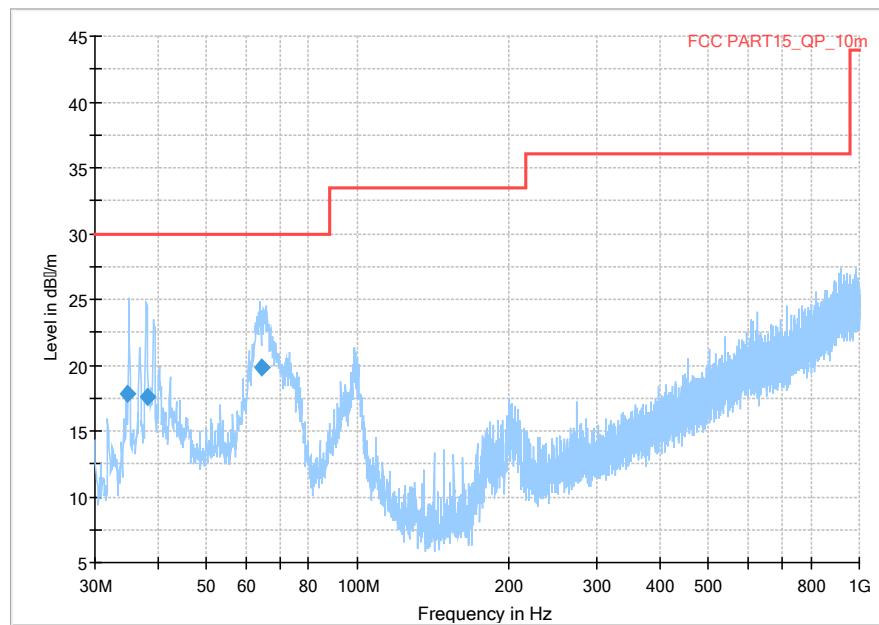


Fig.68. Radiated emission: GFSK, 18 GHz - 26 GHz



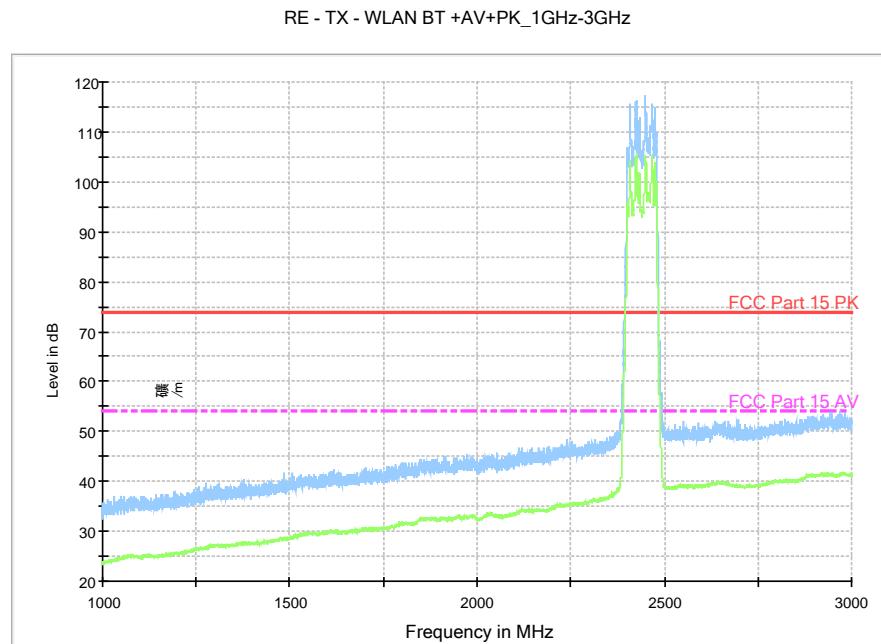
Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.69. Radiated emission: π/4 DQPSK, Channel 0, 1 GHz - 3 GHz


 Fig.70. Radiated emission: $\pi/4$ DQPSK, Channel 0, 3 GHz - 18 GHz

 Fig.71. Radiated emission: $\pi/4$ DQPSK, Channel 39, 30 MHz - 1 GHz

Final_Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
34.924000	17.87	30.00	12.13	1000.0	120.000	276.0	V	300.0	-13.1
38.074000	17.55	30.00	12.45	1000.0	120.000	219.0	V	16.0	-12.4
64.587000	19.88	30.00	10.12	1000.0	120.000	100.0	V	300.0	-13.6



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.72. Radiated emission: $\pi/4$ DQPSK, Channel 39, 1 GHz - 3 GHz

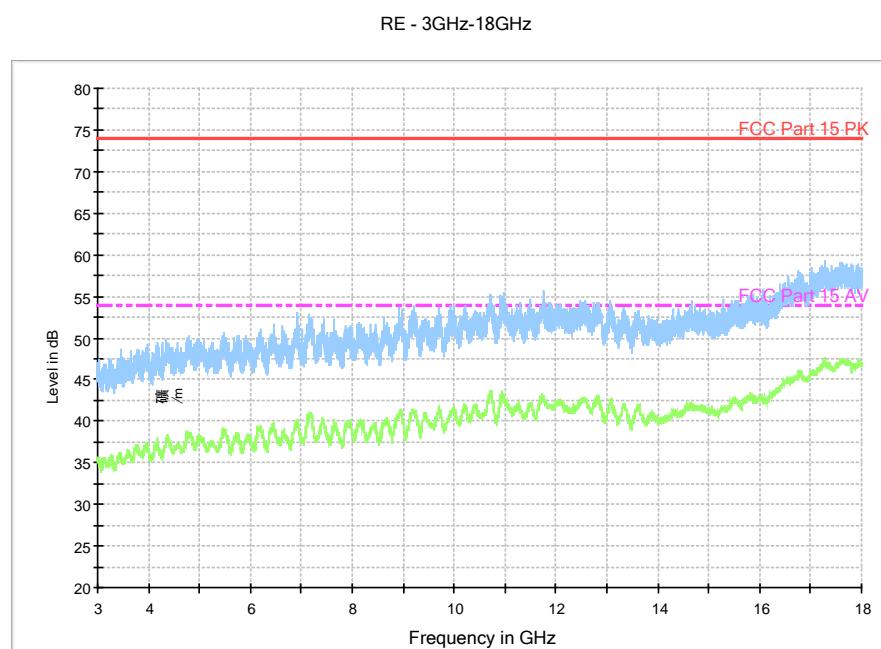
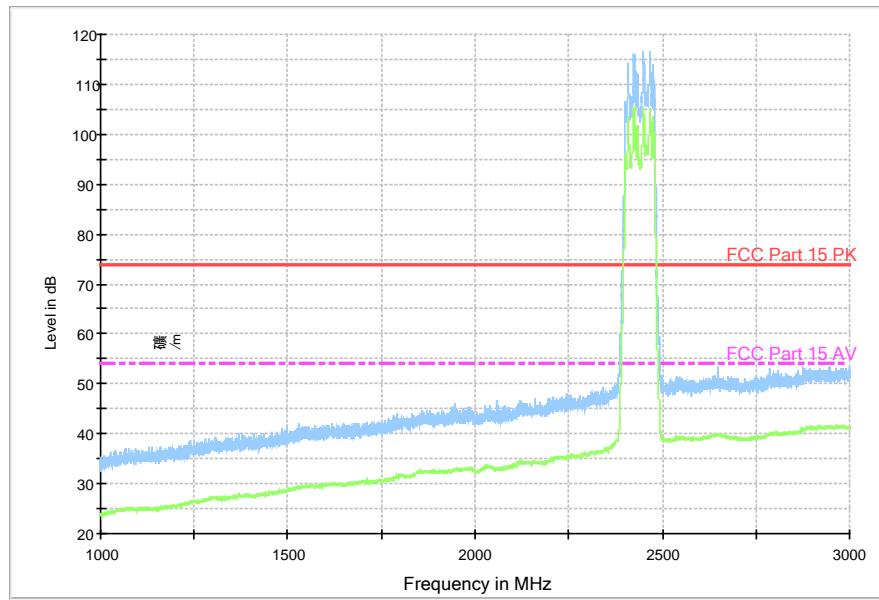


Fig.73. Radiated emission: $\pi/4$ DQPSK, Channel 39, 3 GHz - 18 GHz

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.74. Radiated emission: $\pi/4$ DQPSK, Channel 78, 1 GHz - 3 GHz

RE - 3GHz-18GHz

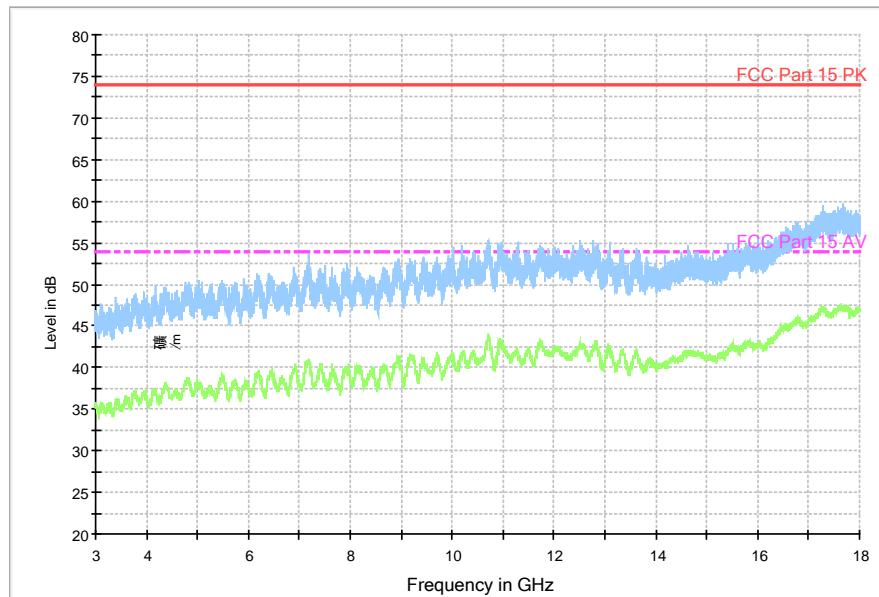


Fig.75. Radiated emission: $\pi/4$ DQPSK, Channel 78, 3 GHz - 18 GHz

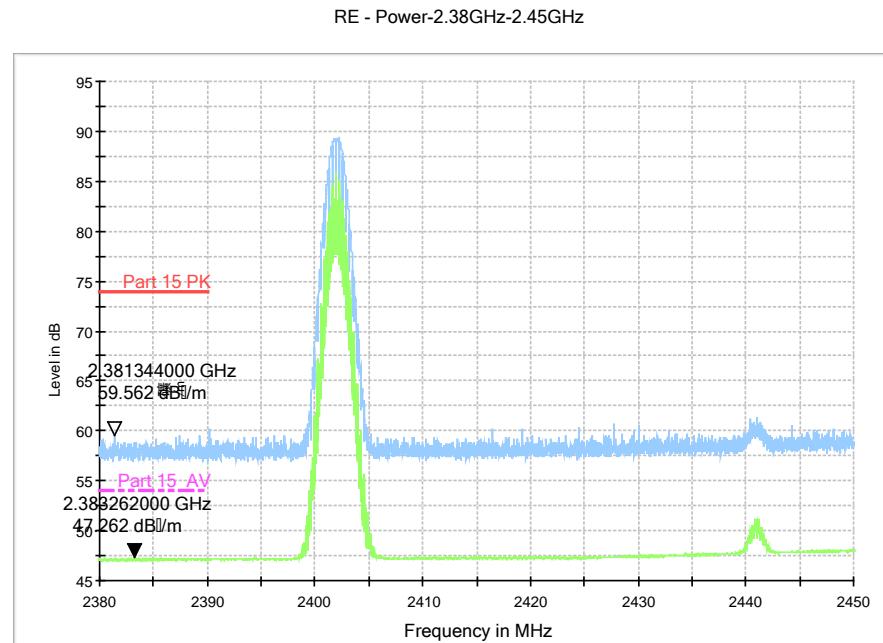


Fig.76. Radiated emission (Power): $\pi/4$ DQPSK, low channel

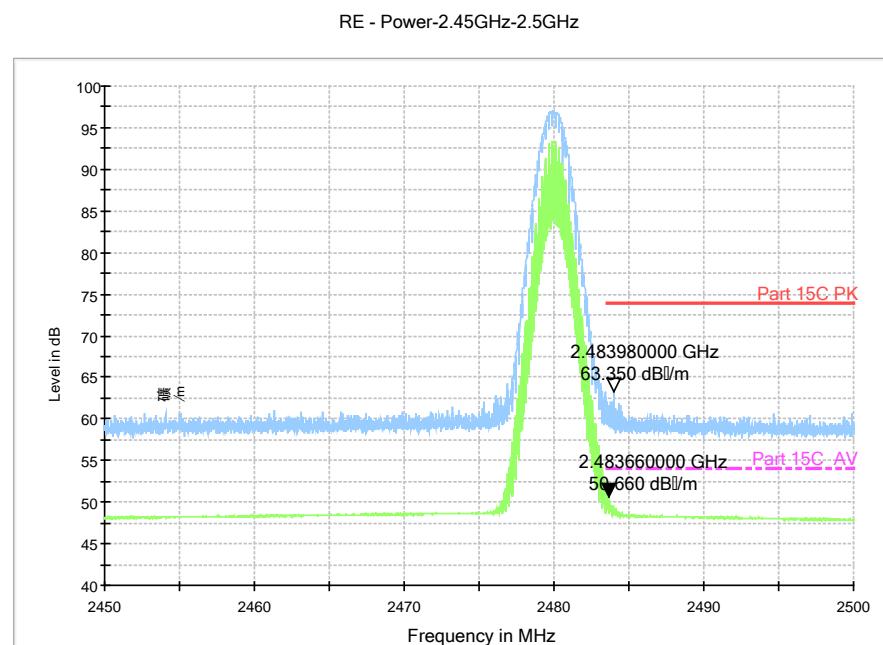


Fig.77. Radiated emission (Power): $\pi/4$ DQPSK, high channel

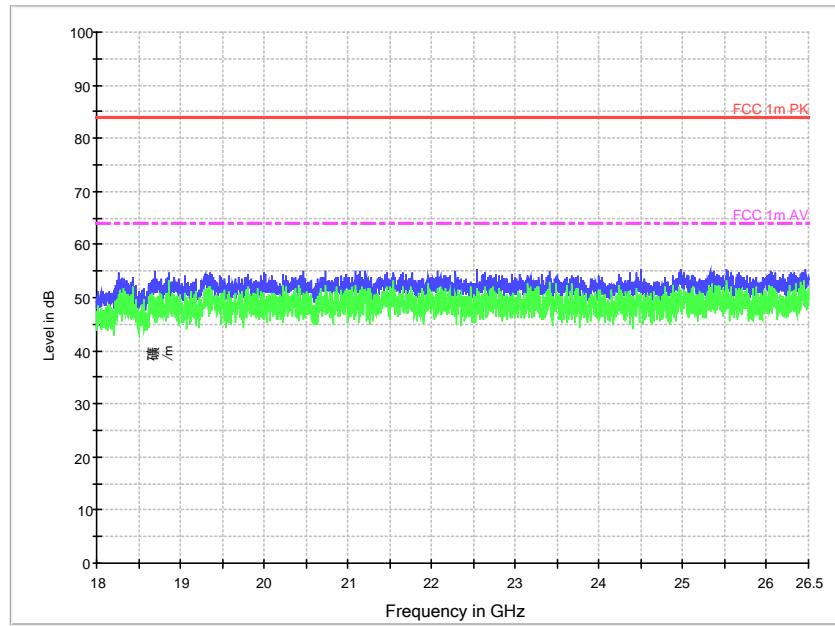
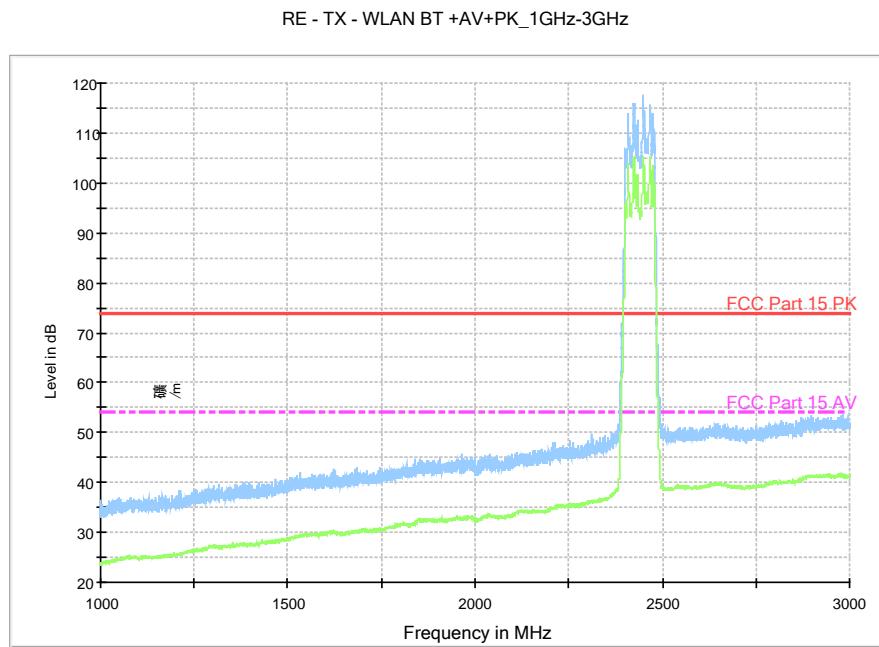


Fig.78. Radiated emission: $\pi/4$ DQPSK, 18 GHz - 26 GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.79. Radiated emission: 8DPSK, Channel 0, 1 GHz - 3 GHz

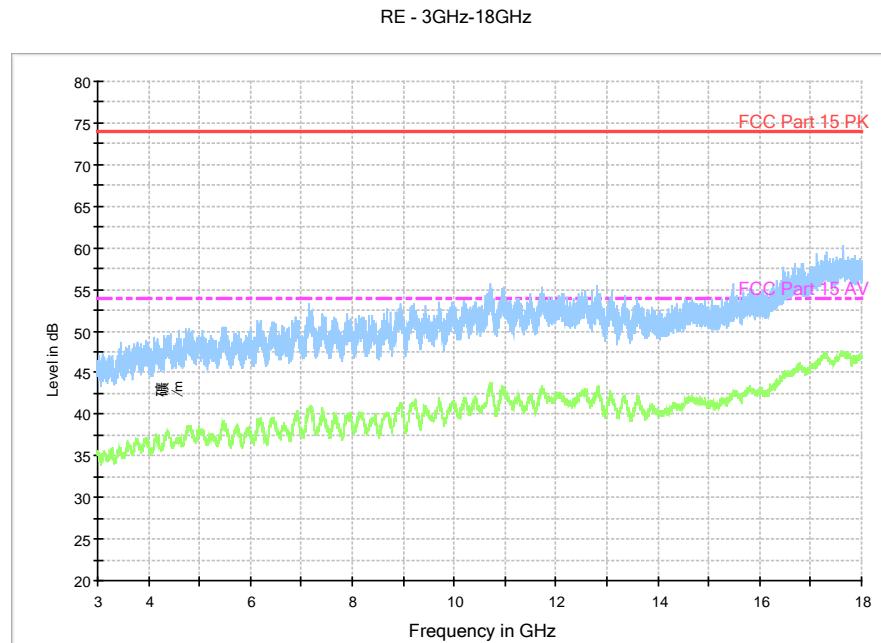


Fig.80. Radiated emission: 8DPSK, Channel 0, 3 GHz - 18 GHz

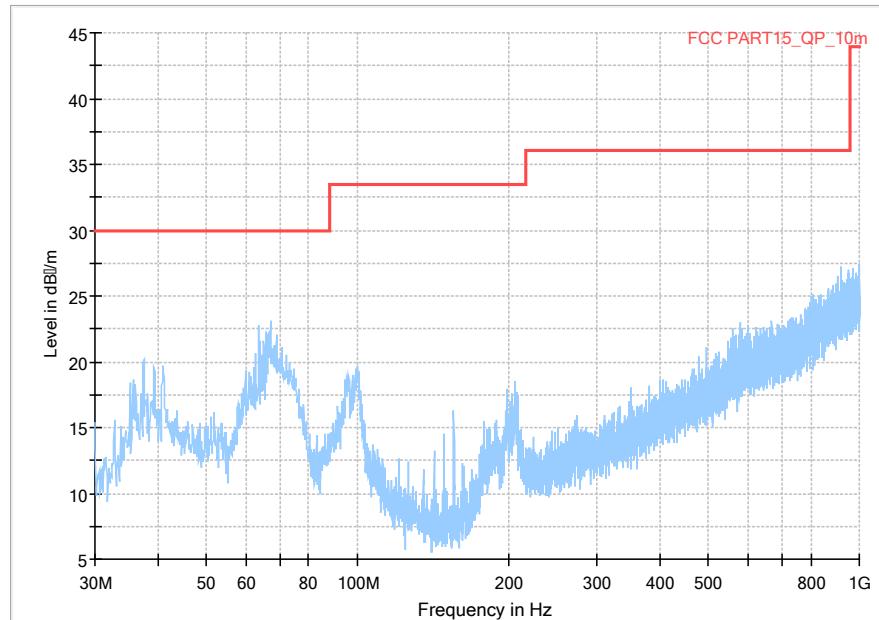
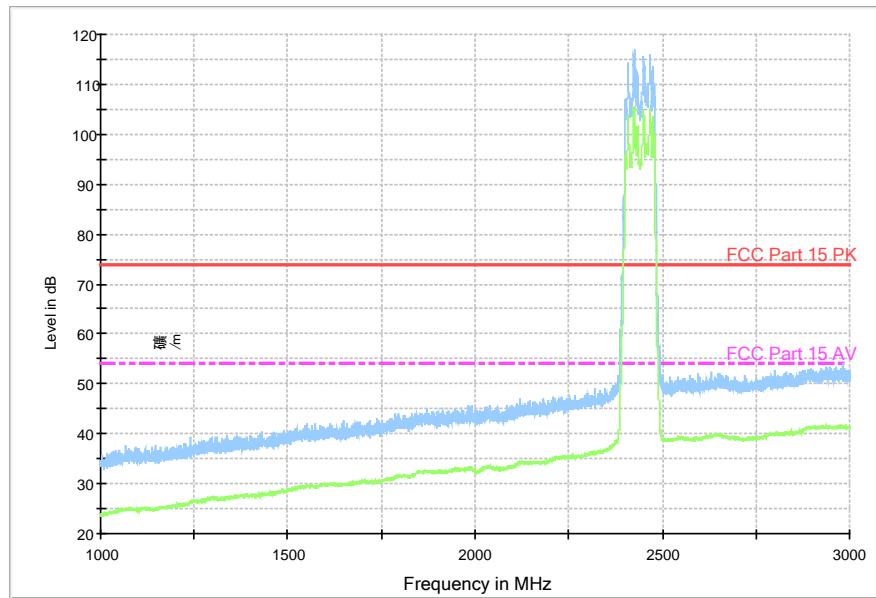


Fig.81. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.82. Radiated emission: 8DPSK, Channel 39, 1 GHz - 3 GHz

RE - 3GHz-18GHz

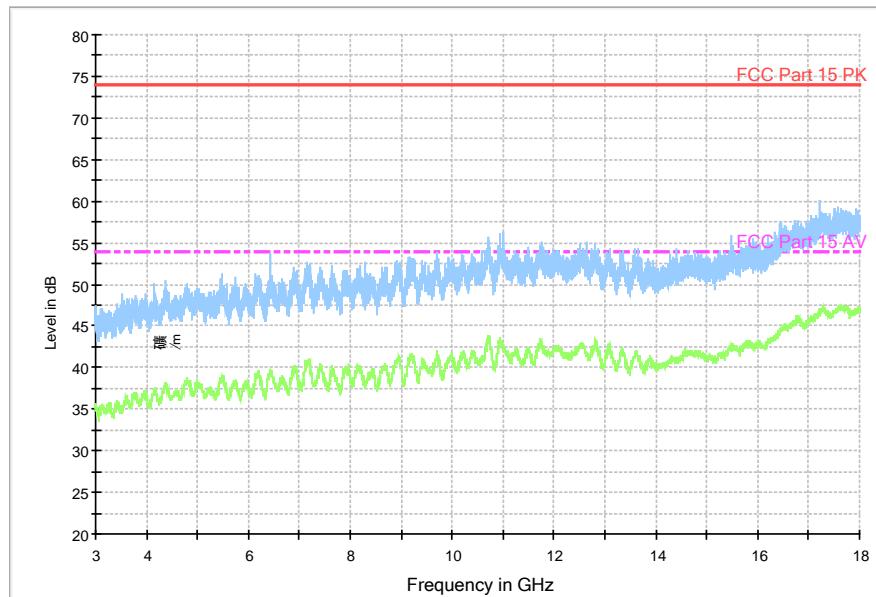
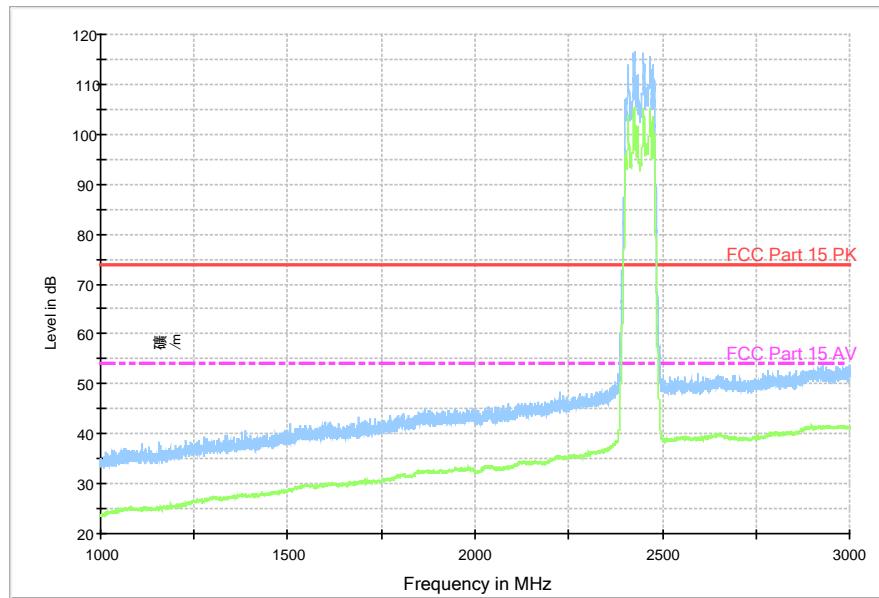


Fig.83. Radiated emission: 8DPSK, Channel 39, 3 GHz - 18 GHz

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.84. Radiated emission: 8DPSK, Channel 78, 1 GHz - 3 GHz

RE - 3GHz-18GHz

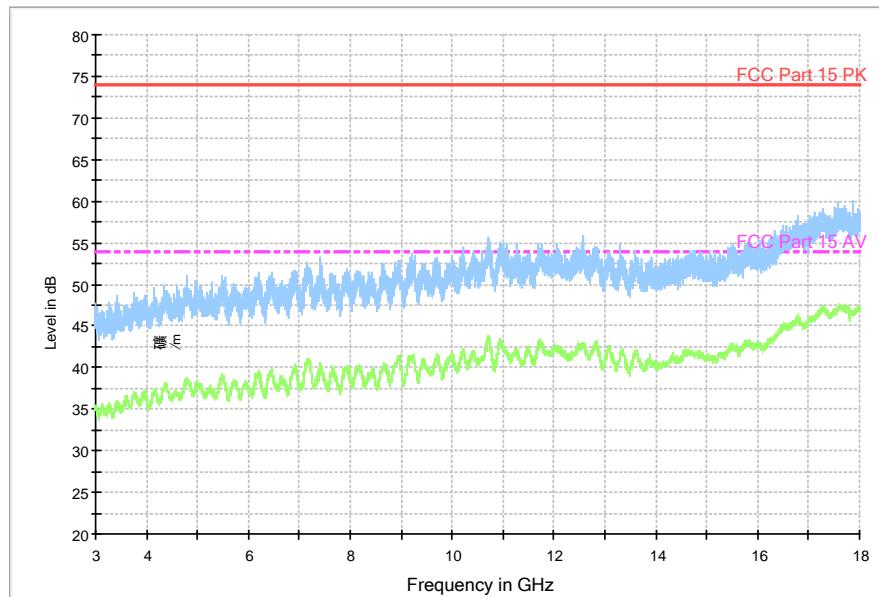


Fig.85. Radiated emission: 8DPSK, Channel 78, 3 GHz - 18 GHz

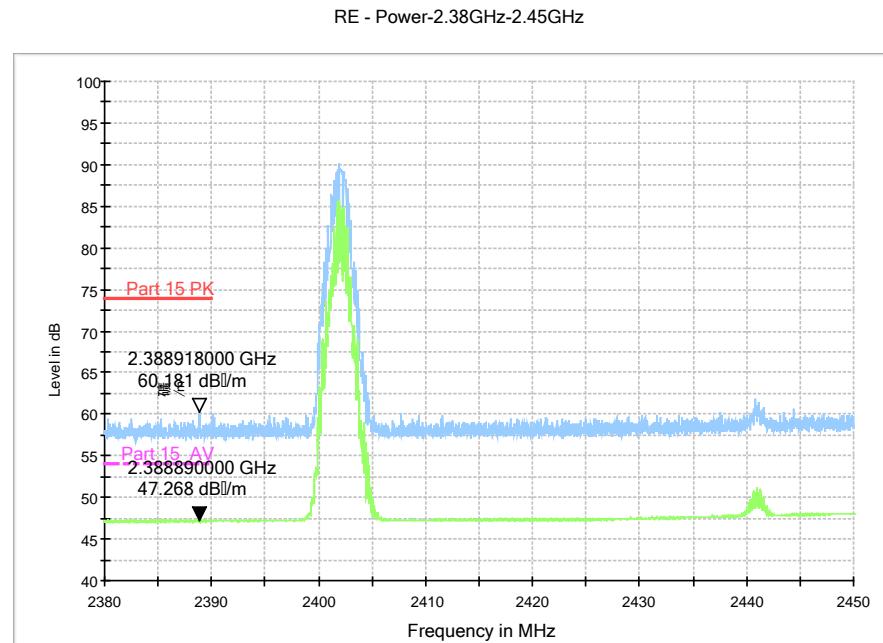


Fig.86. Radiated emission (Power): 8DPSK, low channel

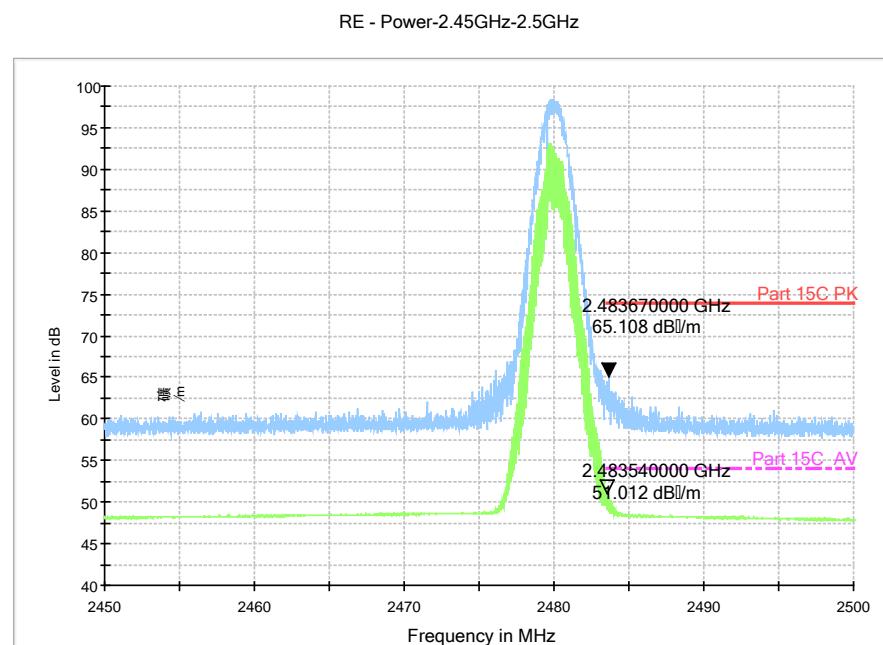


Fig.87. Radiated emission (Power): 8DPSK, high channel

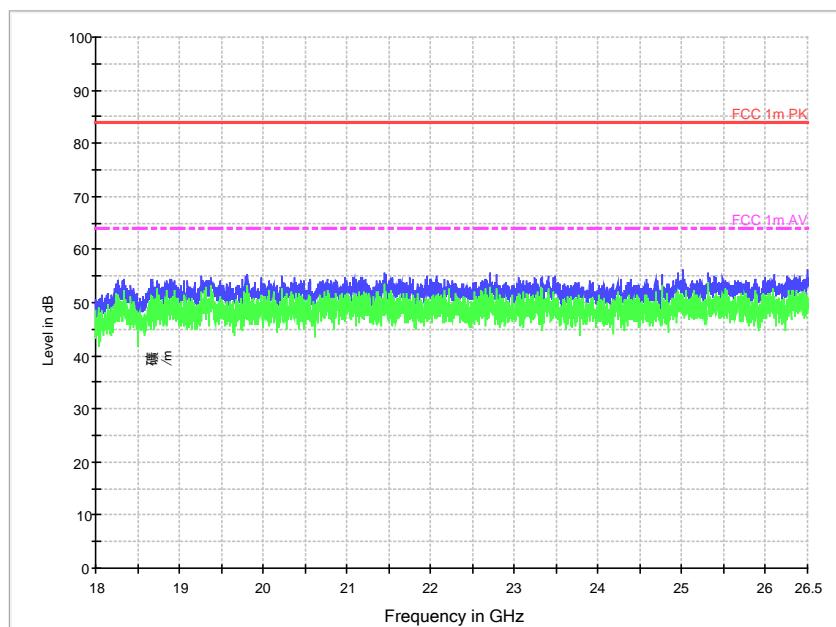


Fig.88. Radiated emission: 8DPSK, 18 GHz – 26.5 GHz

Measurement Results for Set.13 (New cover):

 Result= $P_{Mea} + ARPL$
For 8DPSK

Channel	Frequency Range	Test Results	Conclusion
Ch 0 2402 MHz	1 GHz ~ 3 GHz	Fig.89	P
	3 GHz ~ 18 GHz	Fig.90	P
Ch 39 2440 MHz	9kHz ~ 30MHz	Fig.91	P
	30 MHz ~ 1 GHz	Fig.92	P
	1 GHz ~ 3 GHz	Fig.93	P
	3 GHz ~ 18 GHz	Fig.94	P
Ch 78 2480 MHz	1 GHz ~ 3 GHz	Fig.95	P
	3 GHz ~ 18 GHz	Fig.96	P
Power	2.38GHz~2.4GHz---L	Fig.97	P
Power	2.45GHz~2.5GHz---H	Fig.98	P
For all channels	18 GHz ~ 26 GHz	Fig.99	P

8DPSK Ch 0 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2381.800	46.8	2.9	32.0	11.854	54.0	7.2	H
2385.208	46.7	2.9	32.0	11.823	54.0	7.3	H
4804.500	37.4	-17.3	34.5	20.161	54.0	16.6	V
7206.000	39.4	-16.4	36.1	19.710	54.0	14.6	V
9607.500	38.4	-18.2	37.0	19.656	54.0	15.6	H
12010.500	41.5	-17.4	39.3	19.515	54.0	12.6	V

8DPSK Ch 39 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2386.600	46.8	2.9	32.0	11.965	54.0	7.2	H
2484.100	47.9	2.9	32.7	12.241	54.0	6.1	V
4882.500	36.1	-18.5	34.5	20.108	54.0	17.9	V
7323.000	37.3	-18.5	36.1	19.673	54.0	16.7	H
9763.500	39.2	-17.8	37.2	19.698	54.0	14.8	H
12205.500	40.6	-17.8	39.2	19.120	54.0	13.4	H

8DPSK Ch 78 - Average

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.510	49.1	2.9	32.8	13.381	54.0	4.9	H
2484.100	48.1	2.9	32.7	12.461	54.0	5.9	H
4960.500	36.6	-18.2	34.5	20.240	54.0	17.4	H
7440.000	39.0	-16.9	36.0	19.856	54.0	15.0	V
9919.500	39.9	-17.1	37.4	19.615	54.0	14.1	V
12240.000	40.6	-17.8	39.2	19.210	54.0	13.4	H

8DPSK Ch 0 – Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2382.296	60.0	2.9	32.0	25.087	74.0	14.0	H
2387.084	59.6	2.9	32.0	24.706	74.0	14.4	H
17671.500	61.5	-13.1	41.1	33.585	74.0	12.5	V
17407.500	59.3	-14.6	41.2	32.719	74.0	14.7	H
17277.000	59.3	-14.0	41.2	32.044	74.0	14.7	V
17244.000	59.3	-14.2	41.2	32.262	74.0	14.7	V

8DPSK Ch 39 - Peak

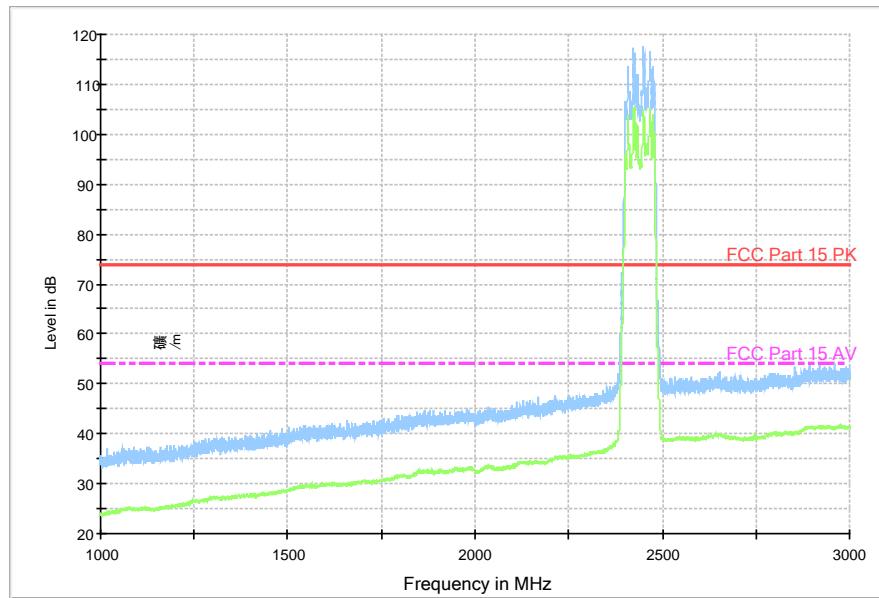
Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2281.400	48.7	-28.0	30.9	45.906	74.0	25.3	H
2542.800	51.1	-26.8	33.0	44.926	74.0	22.9	H
17959.500	60.1	-13.6	40.8	32.881	74.0	13.9	V
17738.250	60.0	-13.3	41.0	32.228	74.0	14.0	V
17686.500	59.6	-13.1	41.1	31.690	74.0	14.4	V
17305.500	59.6	-14.0	41.2	32.394	74.0	14.4	V

8DPSK Ch 78 - Peak

Frequency (MHz)	Measurement Result (dB μ V/m)	Cable loss (dB)	Antenna Factor (dB/m)	Receiver Reading (dB μ V)	Limit (dB μ V/m)	Margin (dB)	Antenna Pol. (H/V)
2483.810	64.2	2.9	32.8	28.563	74.0	9.8	H
2484.400	64.5	2.9	32.7	28.839	74.0	9.5	H
17866.500	59.8	-13.5	40.9	32.454	74.0	14.2	V
17277.750	59.5	-14.0	41.2	32.295	74.0	14.5	H
17652.000	59.2	-13.1	41.1	31.135	74.0	14.8	H
17678.250	59.1	-13.1	41.1	31.167	74.0	14.9	H

Conclusion: PASS**Test graphs as below for Set.13:**

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.89. Radiated emission: 8DPSK, Channel 0, 1 GHz - 3 GHz

RE - 3GHz-18GHz

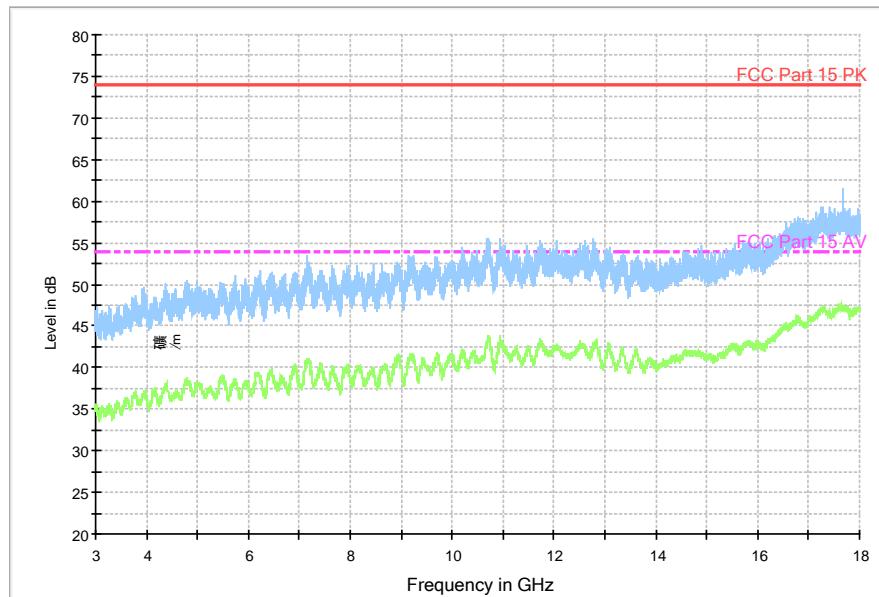


Fig.90. Radiated emission: 8DPSK, Channel 0, 3 GHz - 18 GHz

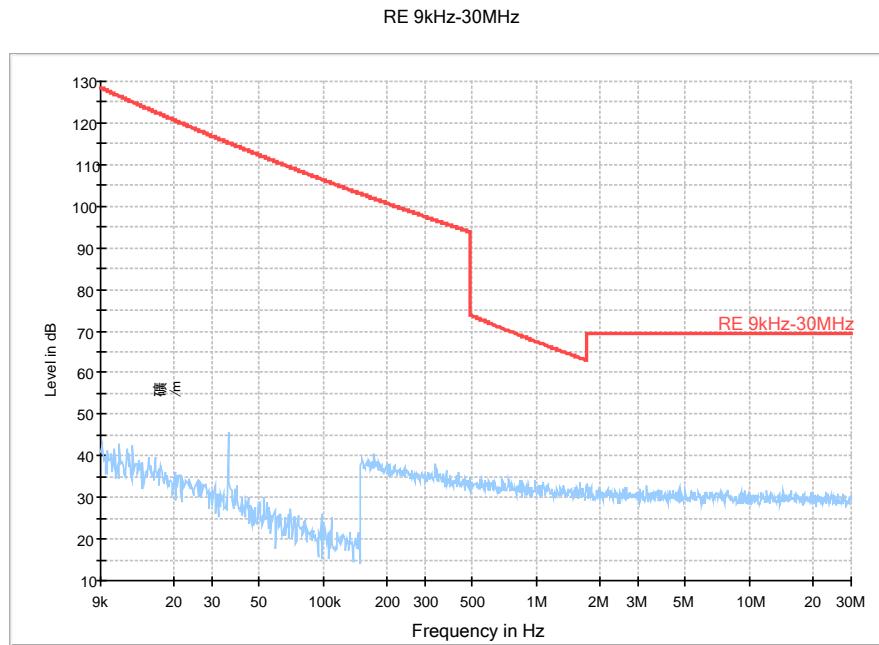


Fig.91. Radiated emission: 8DPSK, Channel 39, 9kHz – 30MHz

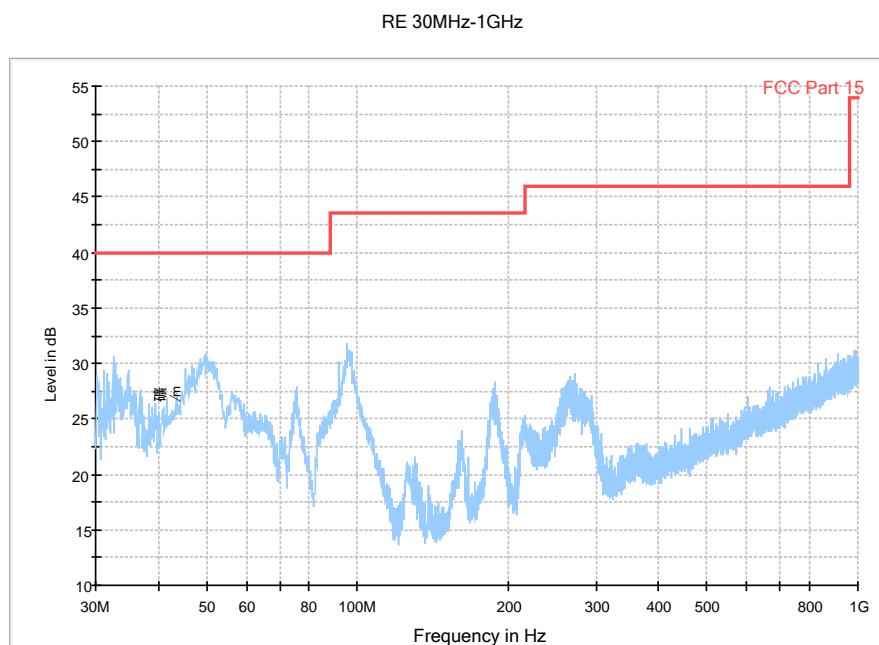
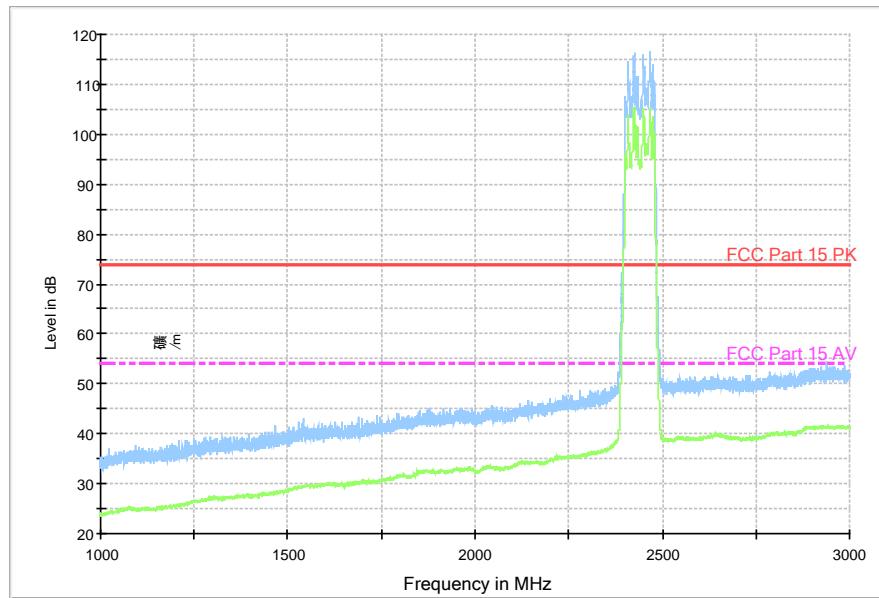


Fig.92. Radiated emission: 8DPSK, Channel 39, 30 MHz - 1 GHz

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.93. Radiated emission: 8DPSK, Channel 39, 1 GHz - 3 GHz

RE - 3GHz-18GHz

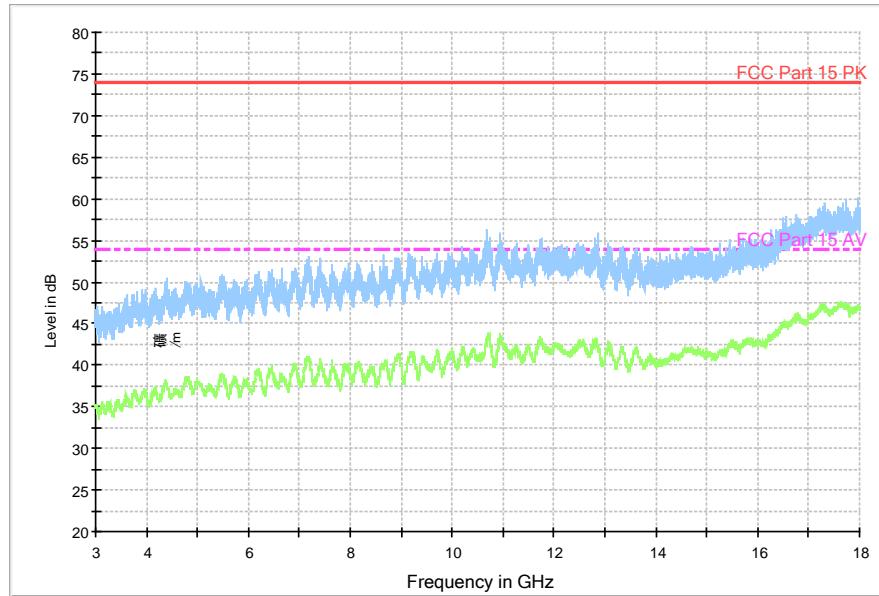
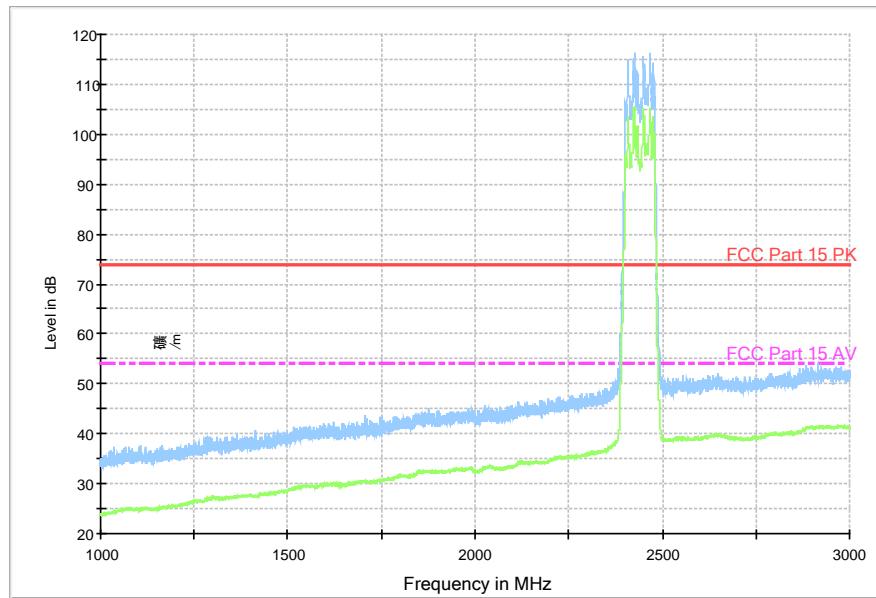


Fig.94. Radiated emission: 8DPSK, Channel 39, 3 GHz - 18 GHz

RE - TX - WLAN BT +AV+PK_1GHz-3GHz



Note: the spike over the limit is the Bluetooth carrier frequency and coming from the radio equipment.

Fig.95. Radiated emission: 8DPSK, Channel 78, 1 GHz - 3 GHz

RE - 3GHz-18GHz

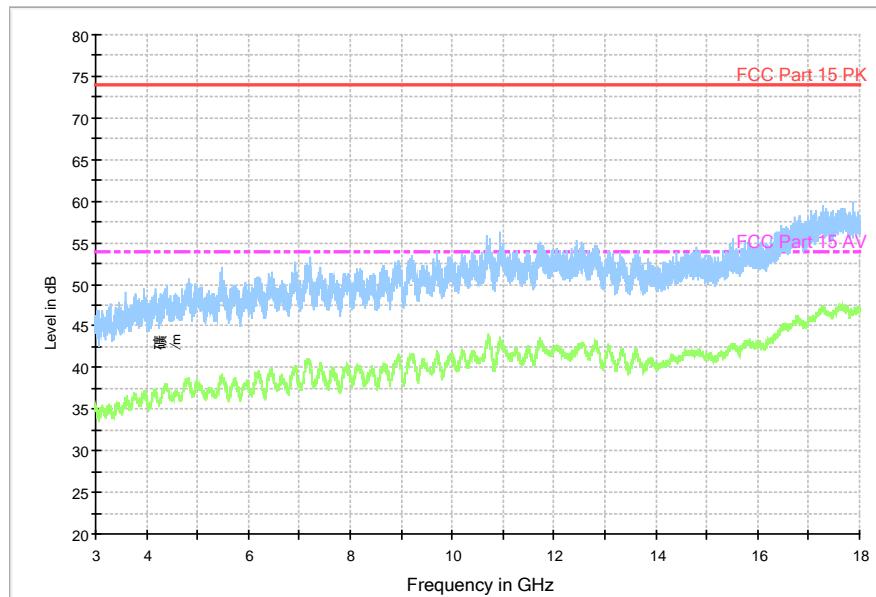


Fig.96. Radiated emission: 8DPSK, Channel 78, 3 GHz - 18 GHz

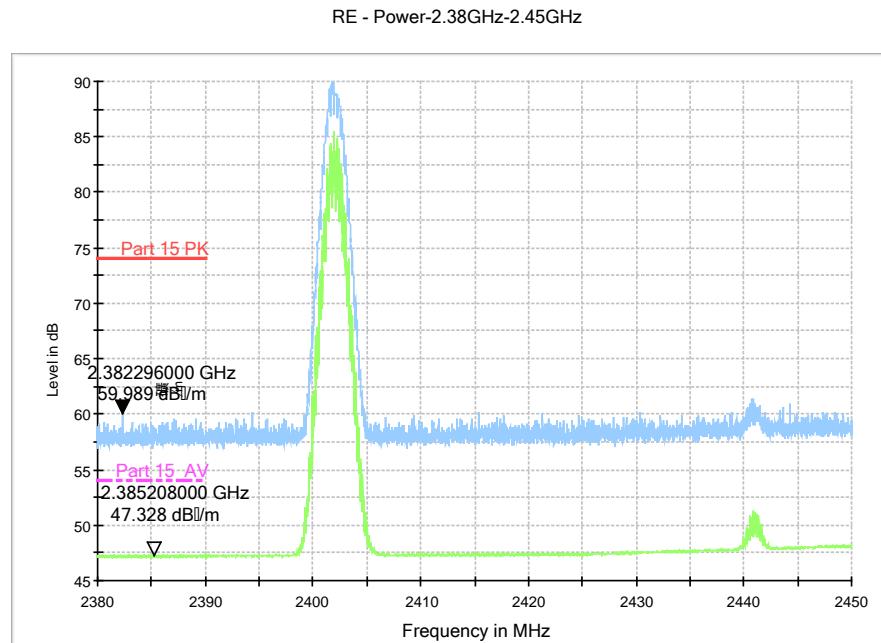


Fig.97. Radiated emission (Power): 8DPSK, low channel

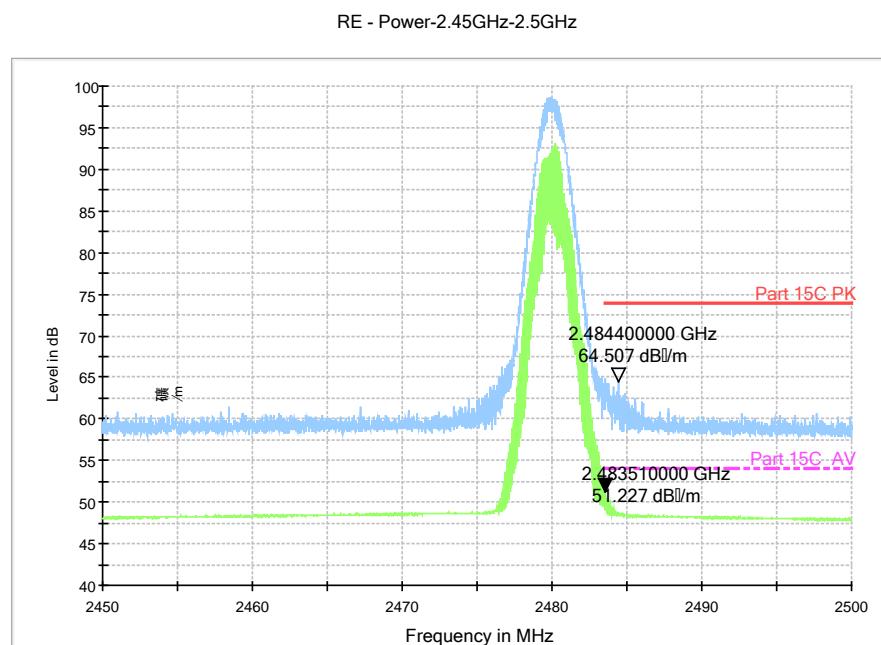


Fig.98. Radiated emission (Power): 8DPSK, high channel

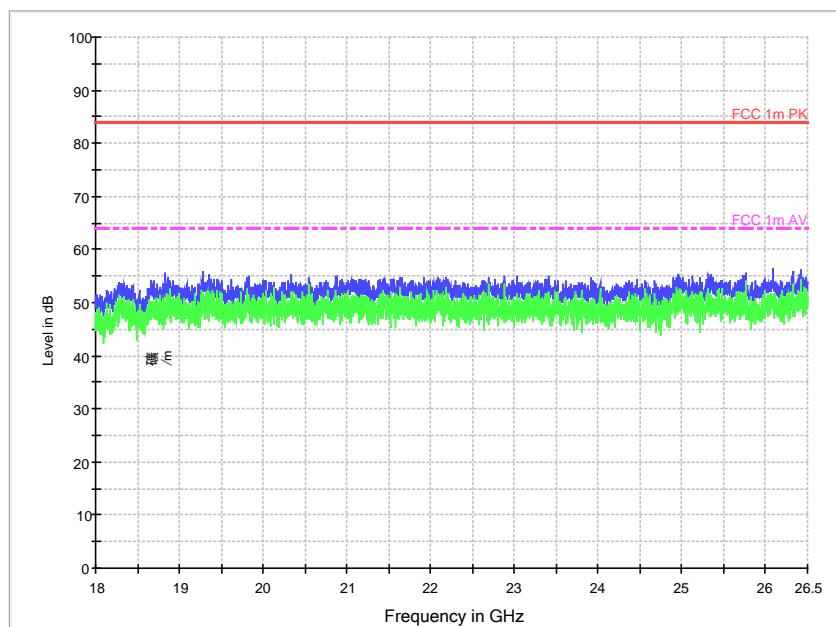


Fig.99. Radiated emission: 8DPSK, 18 GHz – 26.5 GHz

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.100	118.32
	DH3	Fig.101	260.12
	DH5	Fig.102	306.56

For $\pi/4$ DQPSK

Channel	Packet	Dwell Time (ms)	Conclusion
39	DH1	Fig.103	120.60
	DH3	Fig.104	260.65
	DH5	Fig.105	307.01

For 8DPSK

Channel	Packet	Dwell Time (ms)	Conclusion
39	DH1	Fig.106	120.91

	DH3	Fig.107	260.46	P
	DH5	Fig.108	306.72	P

Conclusion: PASS

Test graphs as below:

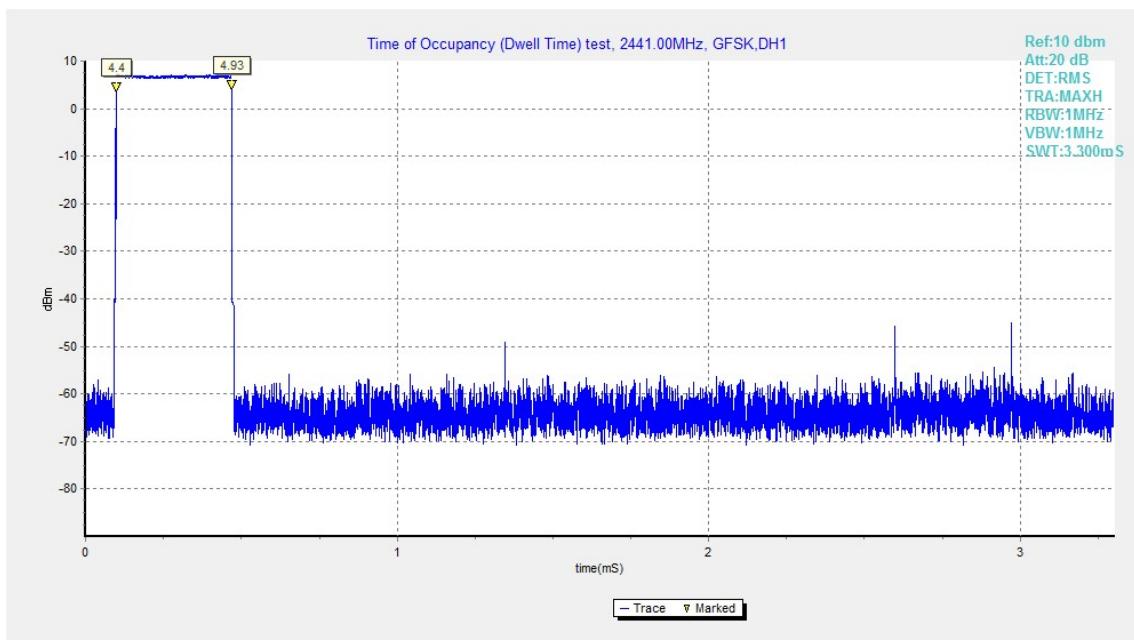


Fig.100. Time of occupancy (Dwell Time): Channel 39, Packet DH1

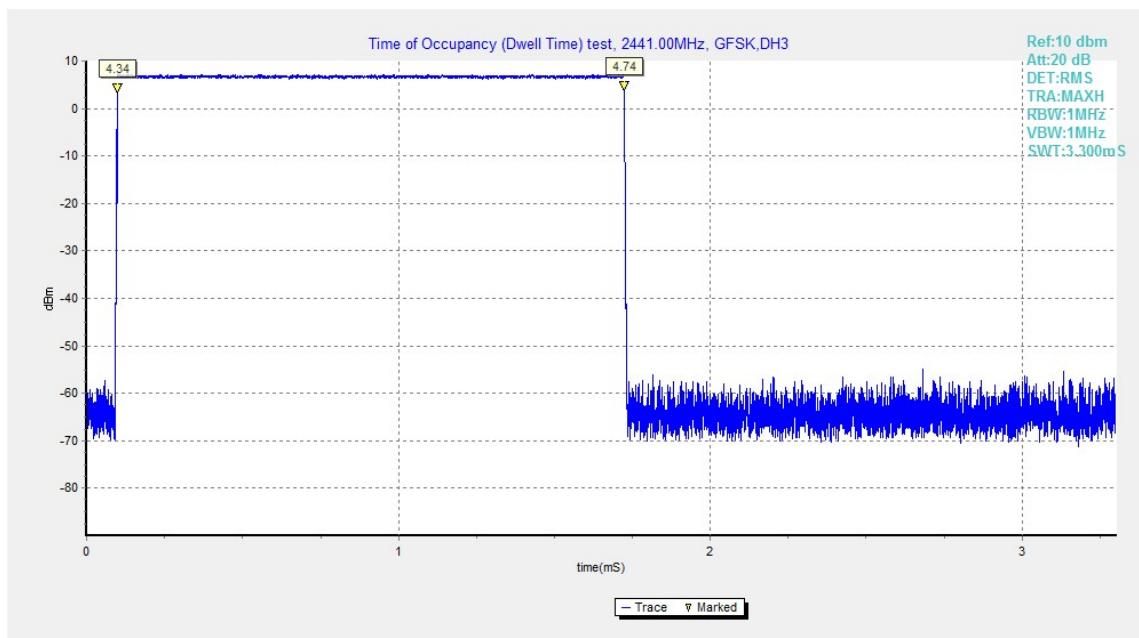


Fig.101. Time of occupancy (Dwell Time): Channel 39, Packet DH3