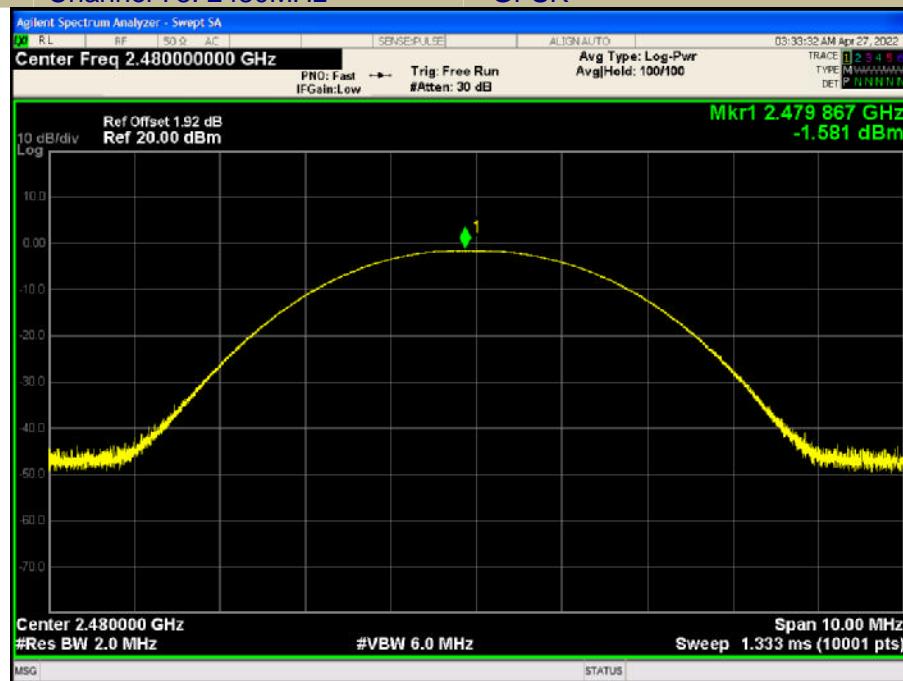
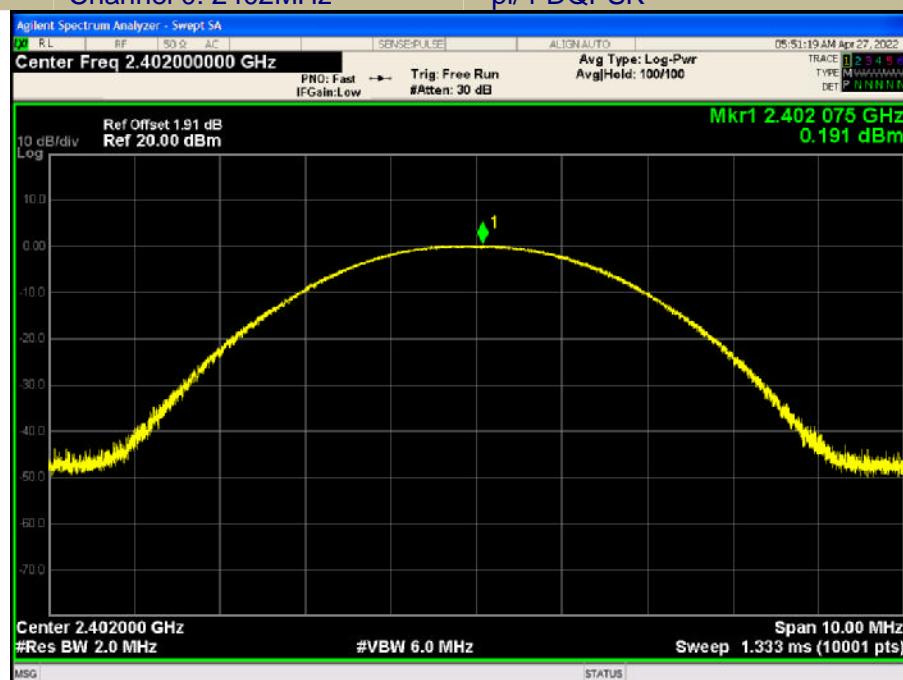


Test Model	Maximum Peak Conducted Output Power
	Bluetooth V5.0 Channel 78: 2480MHz GFSK



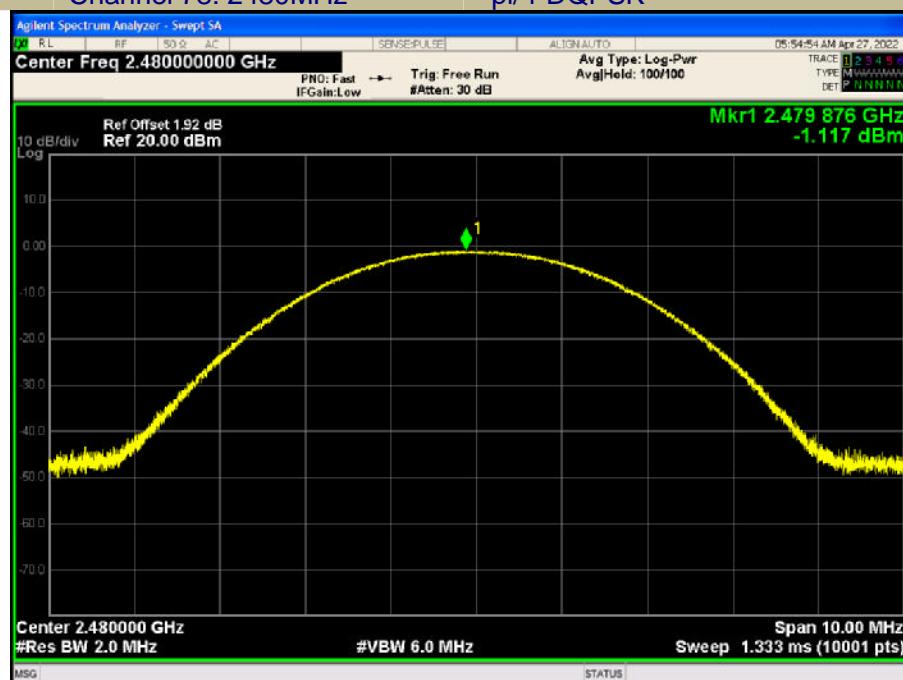
Test Model	Maximum Peak Conducted Output Power
	Bluetooth V5.0 Channel 0: 2402MHz pi/4-DQPSK

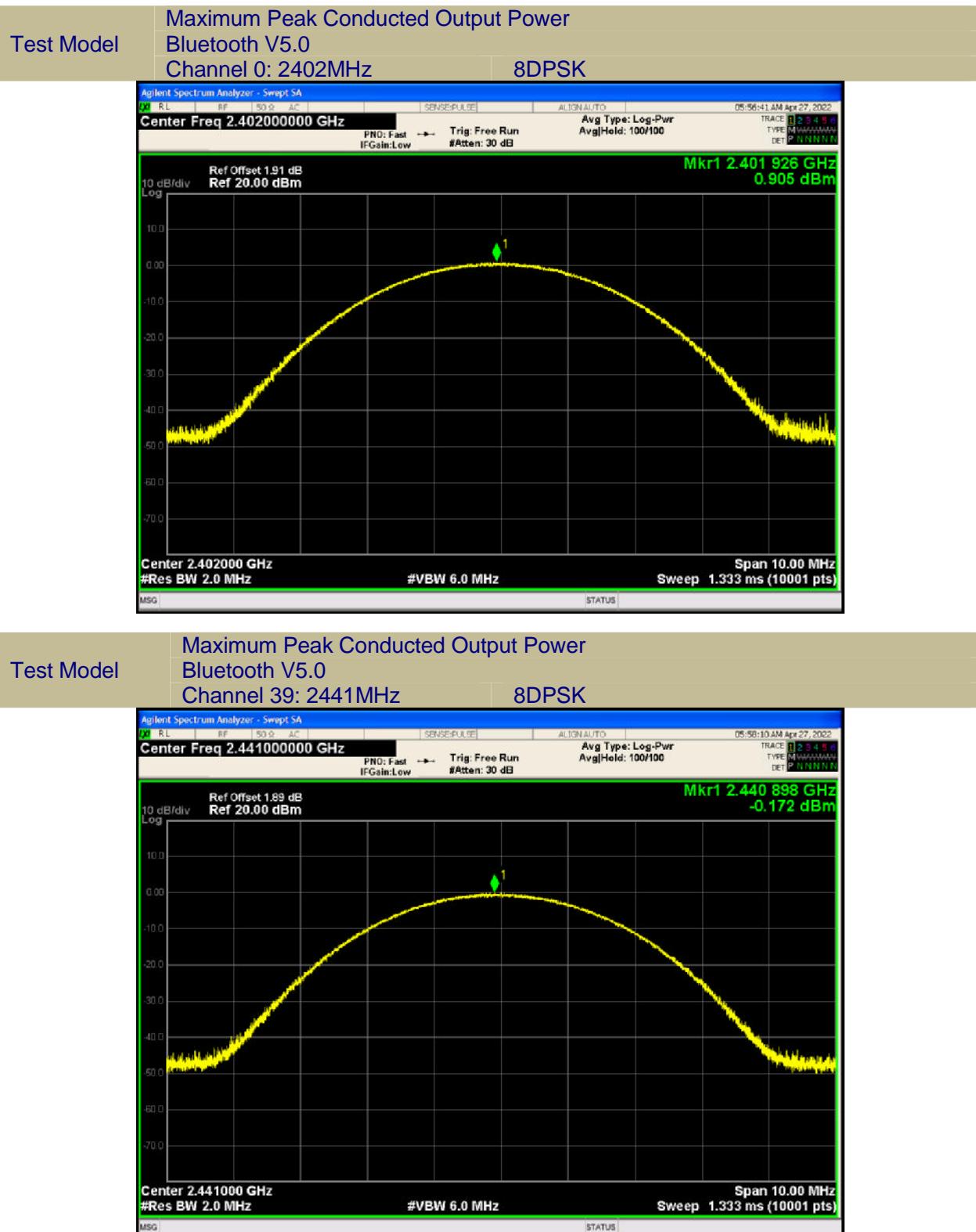


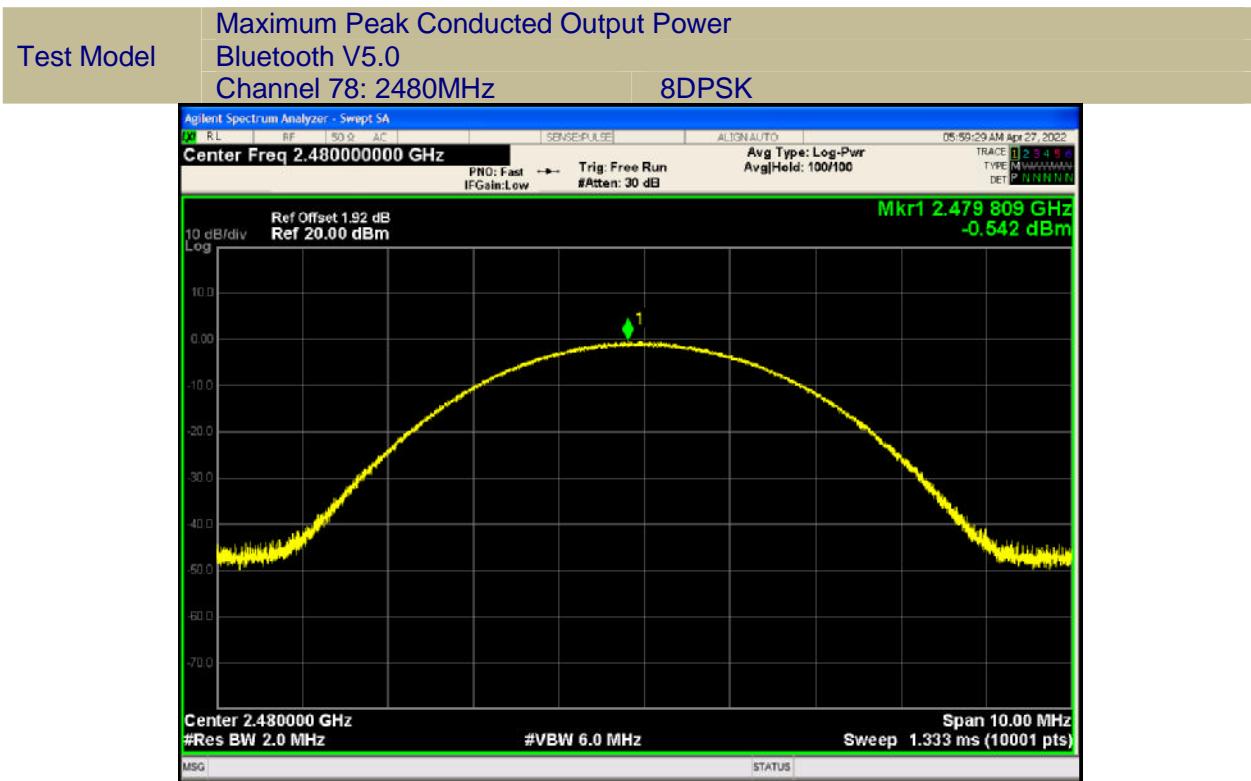
Test Model	Maximum Peak Conducted Output Power
	Bluetooth V5.0 Channel 39: 2441MHz pi/4-DQPSK



Test Model	Maximum Peak Conducted Output Power
	Bluetooth V5.0 Channel 78: 2480MHz pi/4-DQPSK







## 8.6 CONDUCTED SUPRIOUS EMISSION

### 8.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02

### 8.6.2 Conformance Limit

According to FCC Part 15.247(d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted, provided the transmitter demonstrates compliance with the peak conducted power limits.

### 8.6.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1

### 8.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

#### ■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DSS channel center frequency.

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel.

Set the RBW = 100 kHz. Set the VBW  $\geq$  3 x RBW.

Set Detector = peak. Set Sweep time = auto couple.

Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum Maximum conducted level.

Note that the channel found to contain the maximum conducted level can be used to establish the reference level.

#### ■ Band-edge Compliance of RF Conducted Emissions

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW  $\geq$  1% of the span=100kHz Set VBW  $\geq$  RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize. Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

#### ■ Conducted Spurious RF Conducted Emission

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic.(30MHz to 25GHz). Set RBW = 100 kHz Set VBW  $\geq$  RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

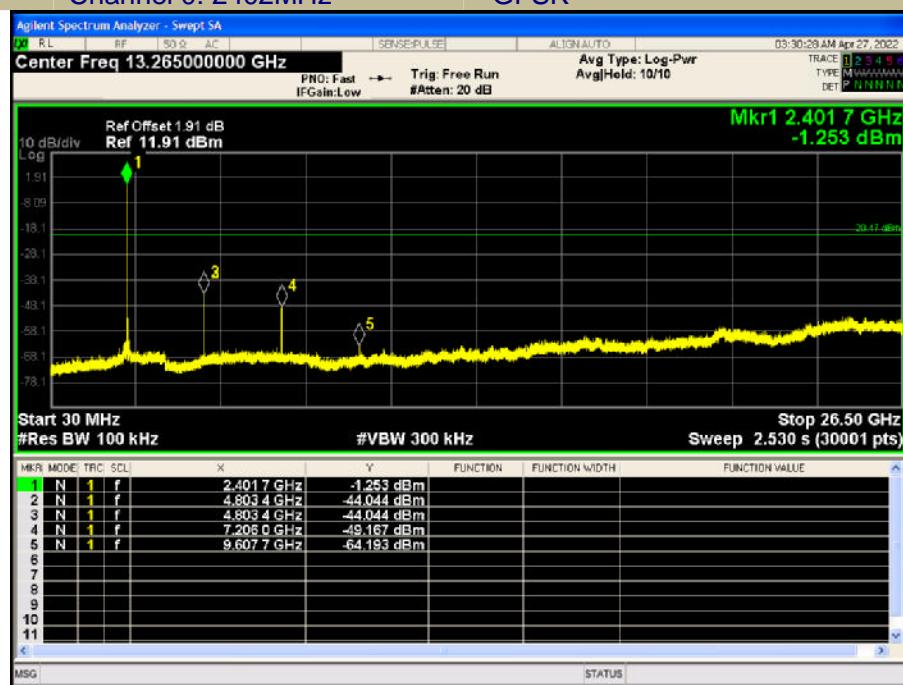
### 8.6.5 Test Results

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK) was report as below:

Test Model	Maximum Conduced Level RBW=100kHz Bluetooth V5.0 Channel 0: 2402MHz GFSK
------------	---



Test Model	Conducted Spurious RF Conducted Emission Bluetooth V5.0 Channel 0: 2402MHz GFSK
------------	--



Test Model

Band-edge Conducted Emissions  
Bluetooth V5.0  
Channel 0: 2402MHz

Agilent Spectrum Analyzer - Sweep SA

Center Freq 2.356000000 GHz

Ref Offset 1.91 dB  
Ref 20.00 dBm

10 dB/div

Log

Start 2.30600 GHz #Res BW 100 kHz

Stop 2.40600 GHz #VBW 300 kHz

Sweep 9.600 ms (1001 pts)

1 N 1 f 2.4020 GHz -0.820 dBm

2 N 1 f 2.4000 GHz -66.076 dBm

3 N 1 f 2.3900 GHz -66.538 dBm

4 N 1 f 2.3887 GHz -66.903 dBm

5

6

7

8

9

10

11

MSG

STATUS

Test Model

Maximum Conducted Level RBW=100kHz  
Bluetooth V5.0  
Channel 39: 2441MHz GFSK

Agilent Spectrum Analyzer - Swept SA

Center Freq 2.441000000 GHz

Ref Offset 1.89 dB  
Ref 11.39 dBm

10 dB/div

Log

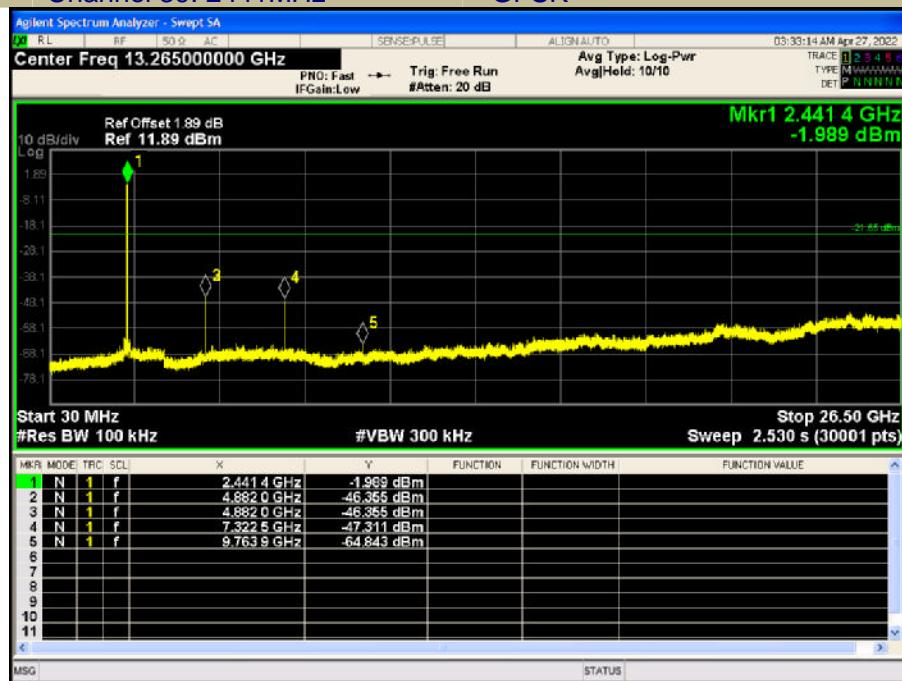
Mkrl 2.441 123 30 GHz  
-1.649 dBm

1.89  
-0.11  
-18.1  
-26.1  
-38.1  
-46.1  
-58.1  
-66.1  
-74.1

Center 2.4410000 GHz  
#Res BW 100 kHz  
#VBW 300 kHz

Span 1.500 MHz  
Sweep 2.000 ms (30001 pts)

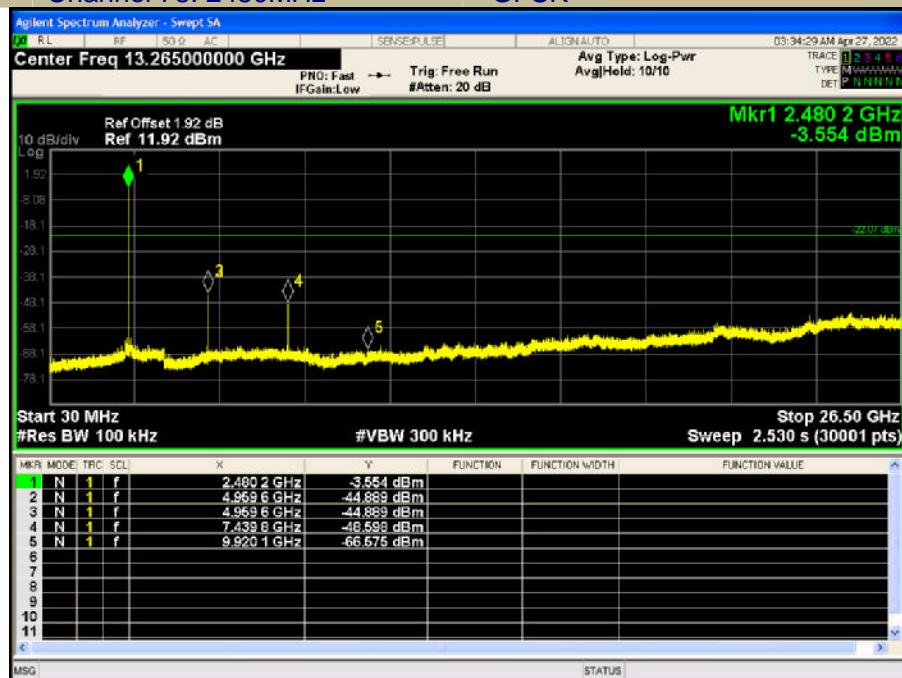
Test Model	Conducted Spurious RF Conducted Emission
	Bluetooth V5.0 Channel 39: 2441MHz GFSK



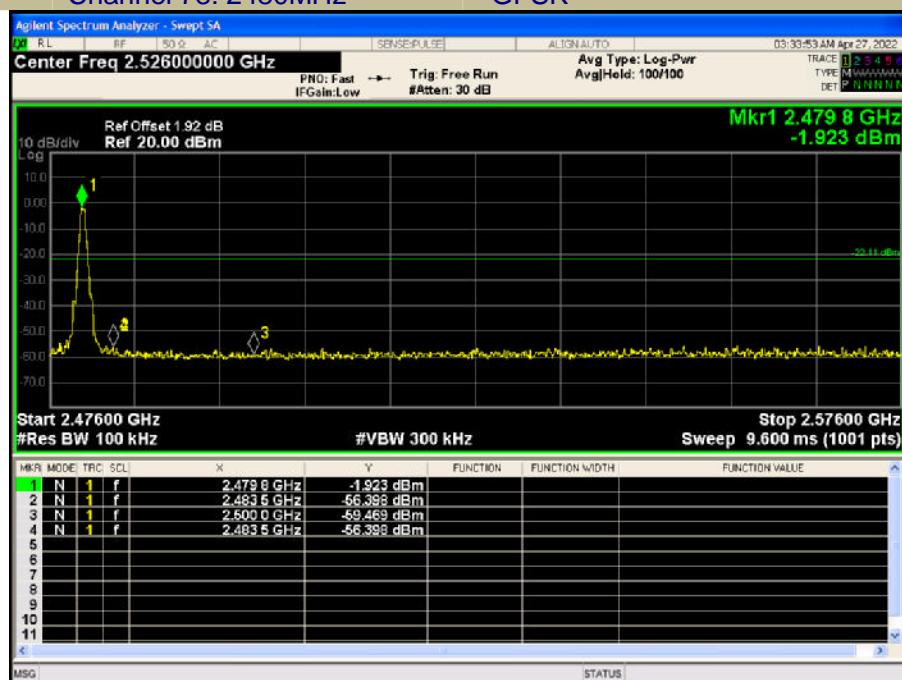
Test Model	Maximum Conducted Level RBW=100kHz
	Bluetooth V5.0 Channel 78: 2480MHz GFSK

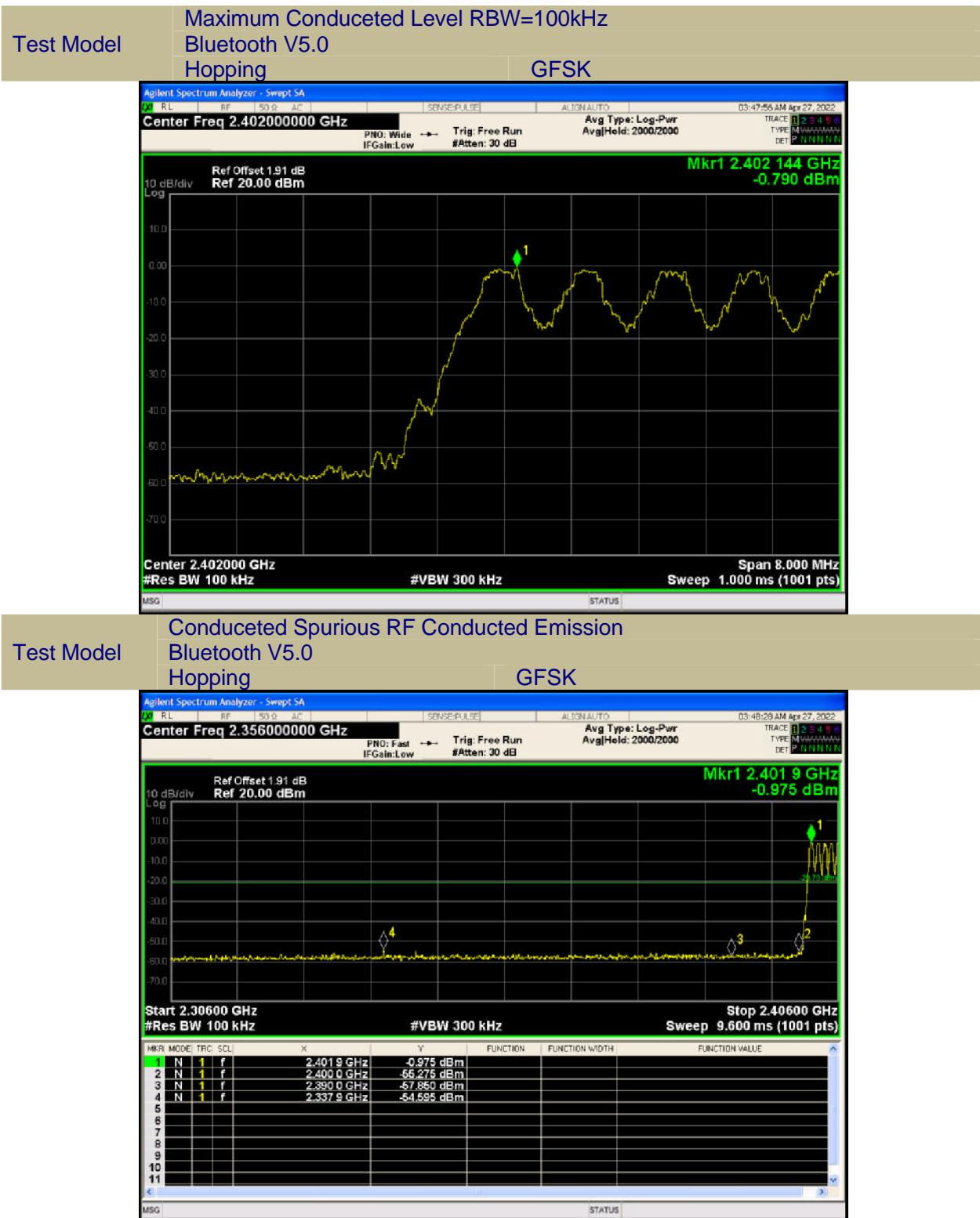


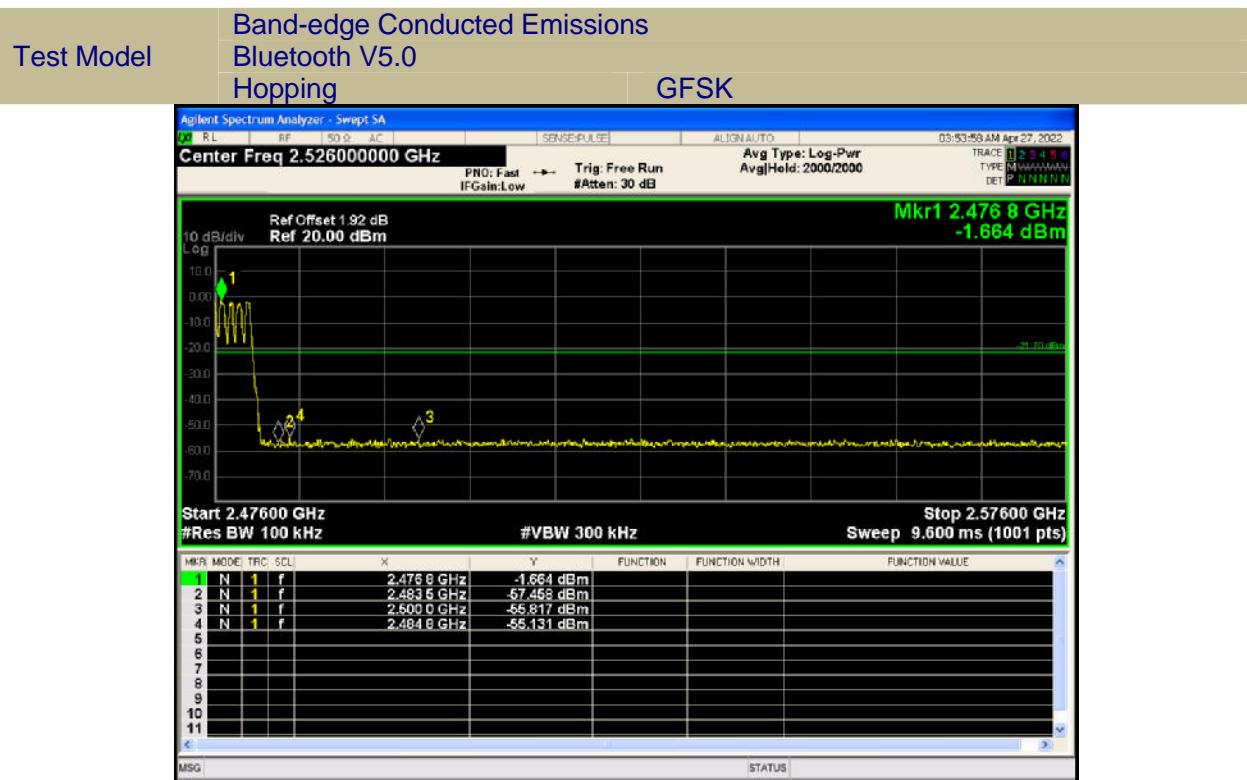
Test Model	Conducted Spurious RF Conducted Emission
	Bluetooth V5.0 Channel 78: 2480MHz GFSK



Test Model	Band-edge Conducted Emissions
	Bluetooth V5.0 Channel 78: 2480MHz GFSK







## 8.7 RADIATED SPURIOUS EMISSION

### 8.7.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02

### 8.7.2 Conformance Limit

According to FCC Part 15.247(d): 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)).

According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength ( $\mu$ V/m)	Field Strength ( $dB\mu$ V/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ( $\mu$ V/m)	300
0.490-1.705	24000/F(KHz)	20 log ( $\mu$ V/m)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

### 8.7.3 Test Configuration

Test according to clause 6.2 radio frequency test setup 2

#### 8.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW  $\geq$  RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from  $20\log(\text{dwell time}/100 \text{ ms})$ , in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

### 8.7.5 Test Results

#### ■ Spurious Emission below 30MHz (9KHz to 30MHz)

Temperature:	26° C
Relative Humidity:	54%
ATM Pressure:	1011 mbar

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

Distance extrapolation factor = $40\log(\text{Specific distance}/\text{test distance})(\text{dB})$ ;  
Limit line=Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK) was report as below:

Test mode:	GFSK	Frequency:	Channel 0: 2402MHz
------------	------	------------	--------------------

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4806.69	V	58.71	47.96	74	54	-15.29	-6.04
7206.94	V	58.83	44.56	74	54	-15.17	-9.44
12303.64	V	56.41	46.09	74	54	-17.59	-7.91
4806.17	H	55.56	45.37	74	54	-18.44	-8.63
7210.67	H	58.13	46.06	74	54	-15.87	-7.94
14503.27	H	59.77	47.21	74	54	-14.23	-6.79

Test mode:	GFSK	Frequency:	Channel 39: 2441MHz
------------	------	------------	---------------------

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4884.00	V	59.21	44.05	74	54	-14.79	-9.95
7324.77	V	55.56	44.54	74	54	-18.44	-9.46
13324.51	V	58.36	46.43	74	54	-15.64	-7.57
4884.54	H	55.83	47.12	74	54	-18.17	-6.88
7324.20	H	59.51	47.06	74	54	-14.49	-6.94
14517.66	H	57.92	46.32	74	54	-16.08	-7.68

Test mode:	GFSK	Frequency:	Channel 78: 2480MHz
------------	------	------------	---------------------

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4962.58	V	59.39	47.55	74	54	-14.61	-6.45
7442.06	V	57.00	44.10	74	54	-17.00	-9.90
12309.83	V	56.60	46.37	74	54	-17.40	-7.63
4961.62	H	56.86	43.06	74	54	-17.14	-10.94
7440.17	H	57.66	44.19	74	54	-16.34	-9.81
14527.97	H	59.18	47.70	74	54	-14.82	-6.30

**Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).

(2) Emission Level= Reading Level+Probe Factor +Cable Loss.

(3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz  
 Bluetooth (GFSK, pi/4-DQPSK, 8DPSK, Hopping) mode have been tested, and the worst result(GFSK, Hopping) was report as below:

Test mode:	GFSK	Frequency:	Channel 0: 2402MHz		
------------	------	------------	--------------------	--	--

Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2321.20	H	43.92	74	34.65	54
2318.64	V	45.13	74	36.62	54

Test mode:	GFSK	Frequency:	Channel 78: 2480MHz		
------------	------	------------	---------------------	--	--

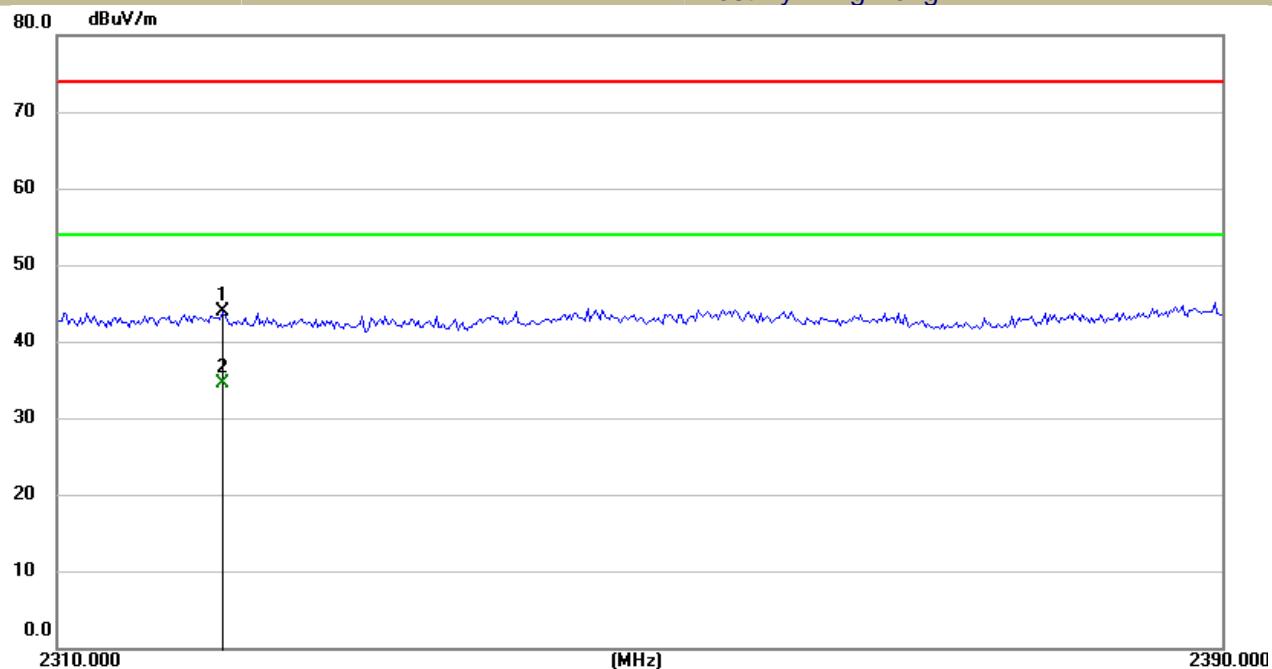
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2494.55	H	48.70	74	39.95	54
2493.49	V	48.75	74	39.20	54

Test mode:	GFSK	Frequency:	Hopping		
------------	------	------------	---------	--	--

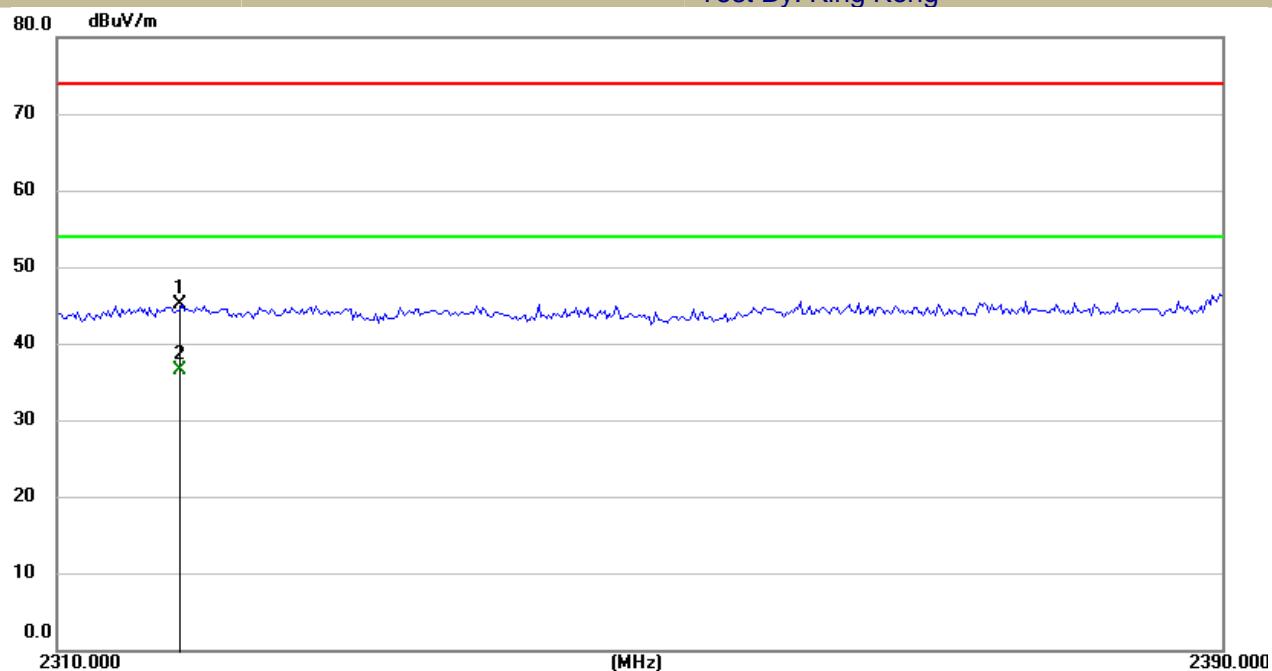
Frequency (MHz)	Polarity H/V	PK(dBuV/m) (VBW=3MHz)	Limit 3m (dBuV/m)	AV(dBuV/m) (VBW=10Hz)	Limit 3m (dBuV/m)
2400.00	H	53.89	74	43.30	54
2483.50	H	48.64	74	39.85	54
2400.00	V	52.34	74	43.18	54
2483.50	V	48.30	74	39.52	54

**Note:** (1) All Readings are Peak Value (VBW=3MHz) and Peak Value (VBW=10Hz).  
 (2) Emission Level= Reading Level+Probe Factor +Cable Loss.  
 (3) Data of measurement within this frequency range shown “ -- ” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

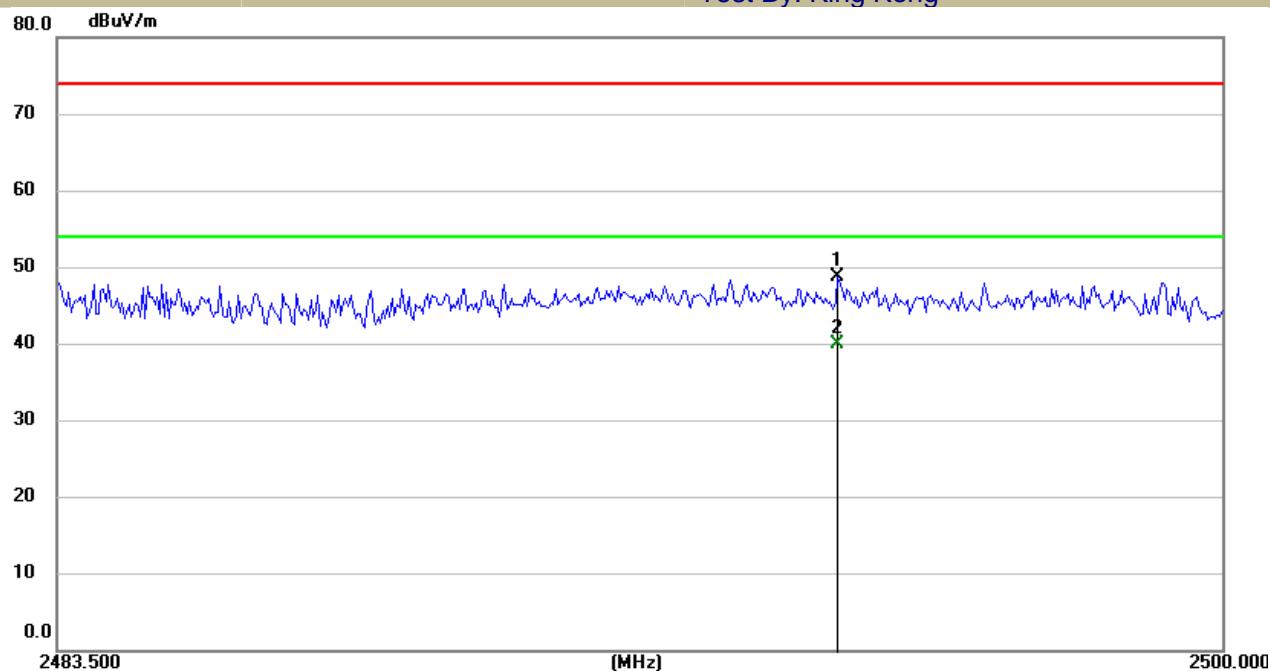
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Bluetooth V5.0	GFSK	H
	Channel 0: 2402MHz	Test By: King Kong	



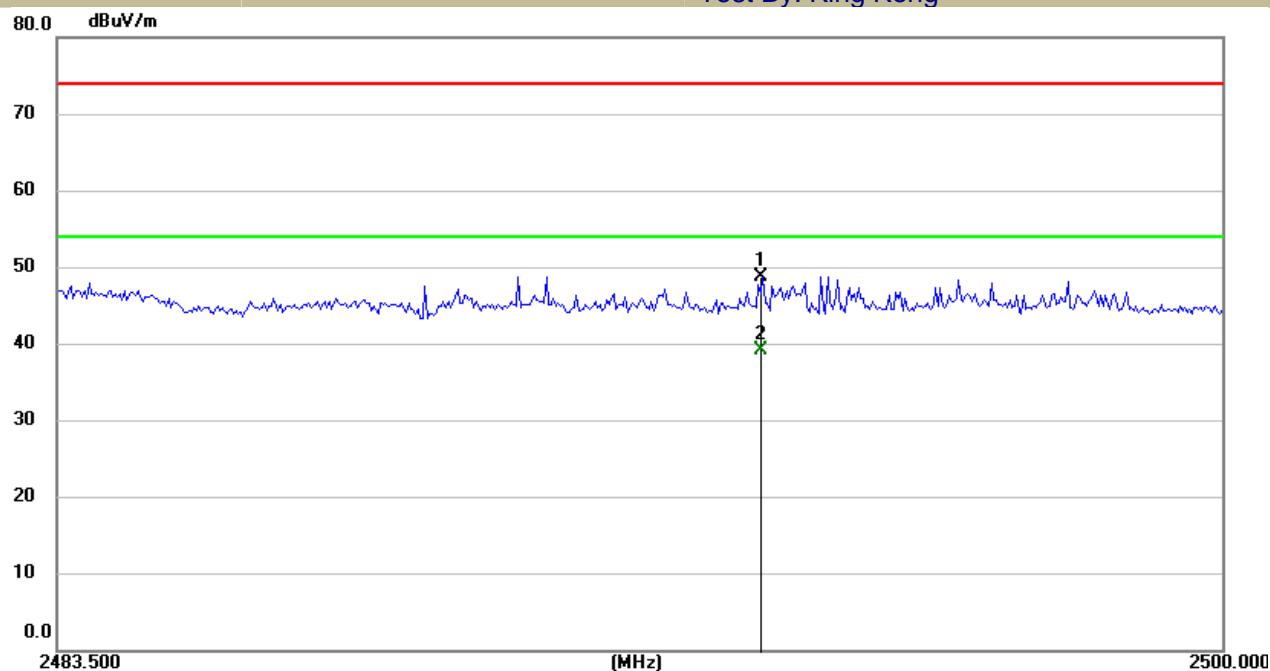
Test Model	Spurious Emission in Restricted Band 2310-2390MHz		
	Bluetooth V5.0	GFSK	V
	Channel 0: 2402MHz	Test By: King Kong	



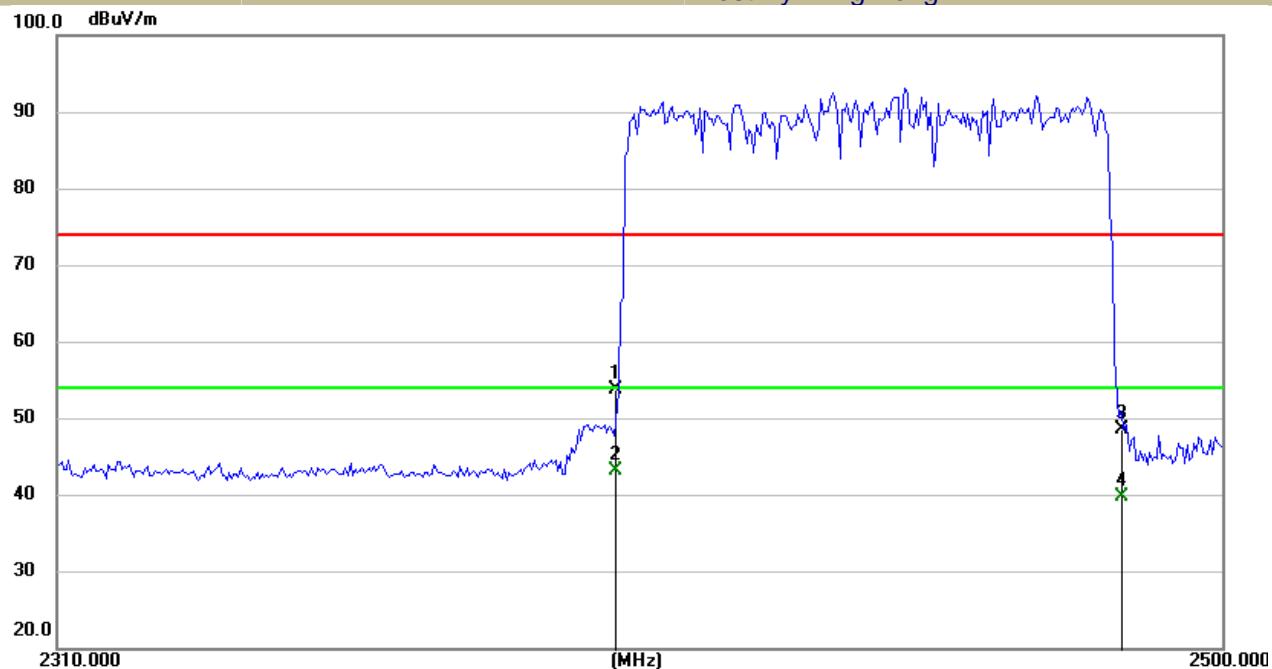
Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Bluetooth V5.0	GFSK	H
	Channel 78: 2480MHz	Test By: King Kong	



Test Model	Spurious Emission in Restricted Band 2483.5-2500MHz		
	Bluetooth V5.0	GFSK	V
	Channel 78: 2480MHz	Test By: King Kong	



Test Model	Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz		
	Bluetooth V5.0	GFSK	H
	Hopping	Test By: King Kong	

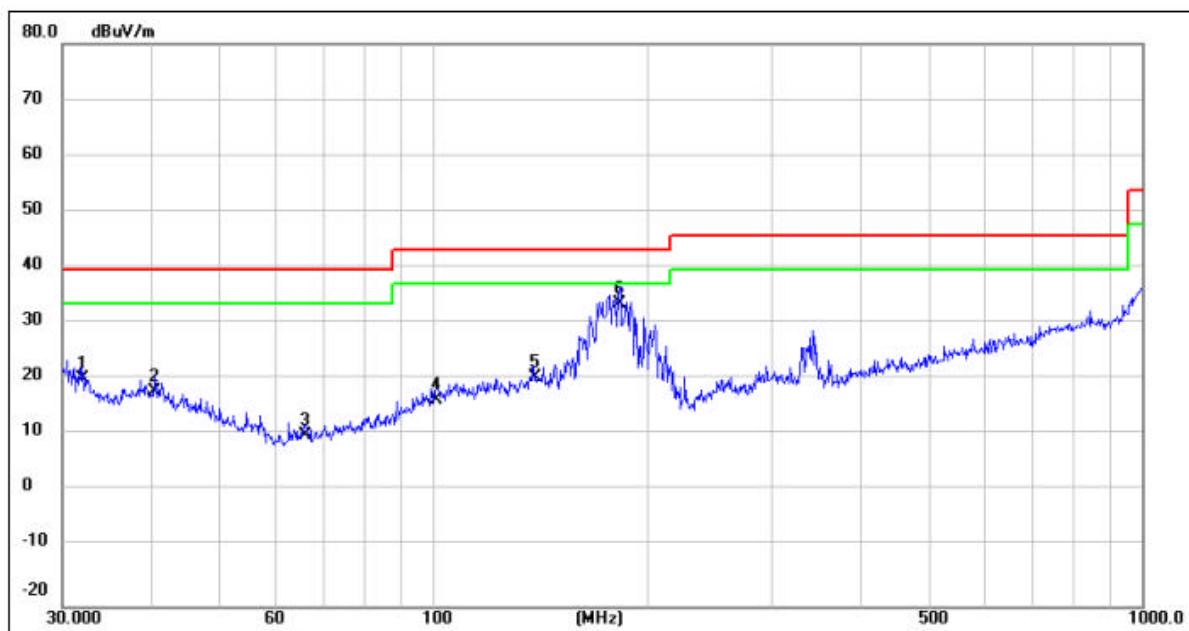


Test Model	Spurious Emission in Restricted Band 2310-2390MHz and 2400-2483.5MHz		
	Bluetooth V5.0	GFSK	V
	Hopping	Test By: King Kong	



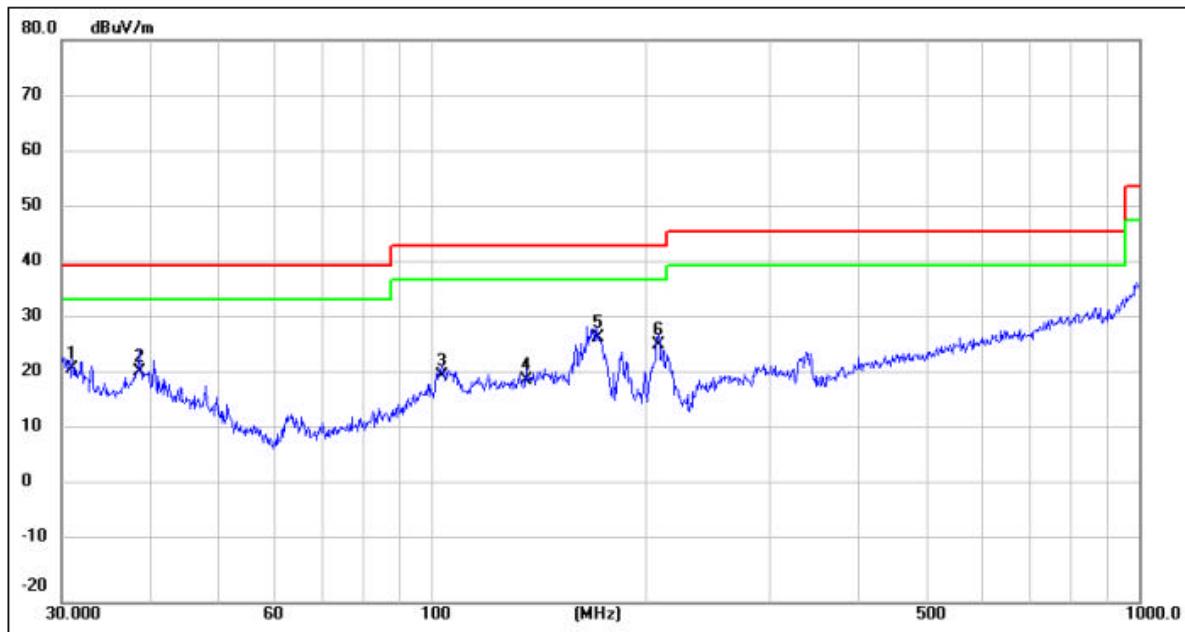
■ Spurious Emission below 1GHz (30MHz to 1GHz)

Bluetooth (GFSK, pi/4-DQPSK, 8DPSK) mode have been tested, and the worst result(GFSK) was report as below:



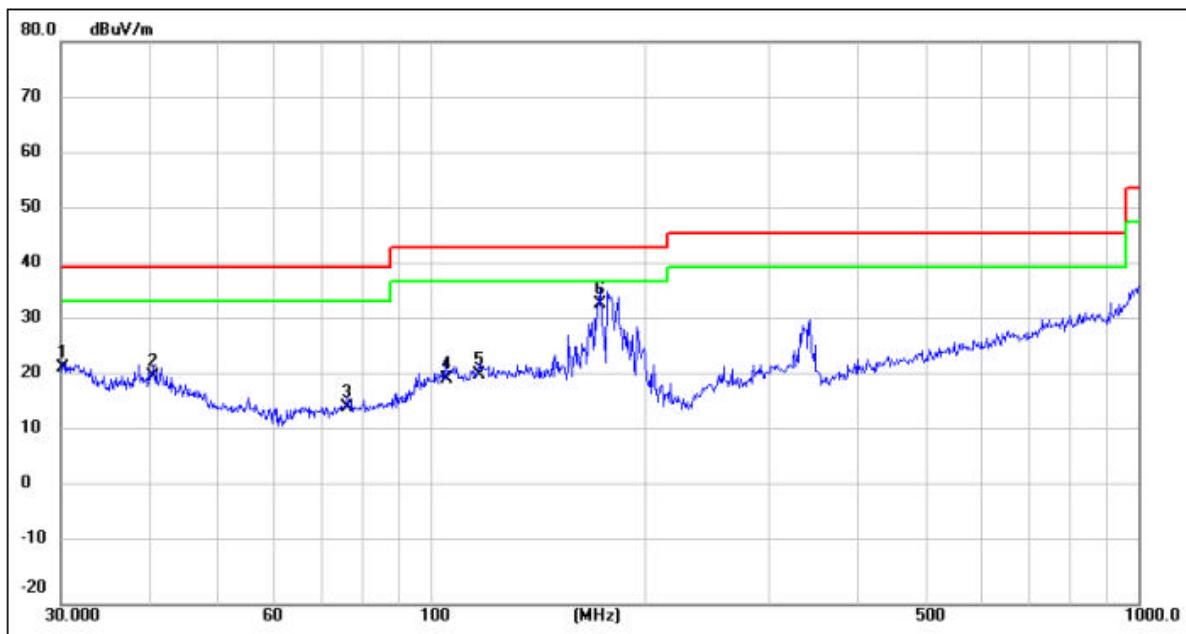
Site:	Antenna::Vertical		Temperature(C):24.5(C)
Limit:	FCC Part15C Radiation(QP)		Humidity(%):55%
M/N.:	BT150	Power Rating:	AC 120V/60Hz
Mode:	BT 2402	Test Engineer:	Ken
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	31.9546	22.37	-1.75	20.62	40.00	-19.38	QP			
2	40.5591	23.65	-5.23	18.42	40.00	-21.58	QP			
3	65.8031	23.98	-13.47	10.51	40.00	-29.49	QP			
4	101.2885	21.62	-4.71	16.91	43.50	-26.59	QP			
5	138.8735	23.46	-2.65	20.81	43.50	-22.69	QP			
6 *	183.2005	40.98	-6.99	33.99	43.50	-9.51	QP			



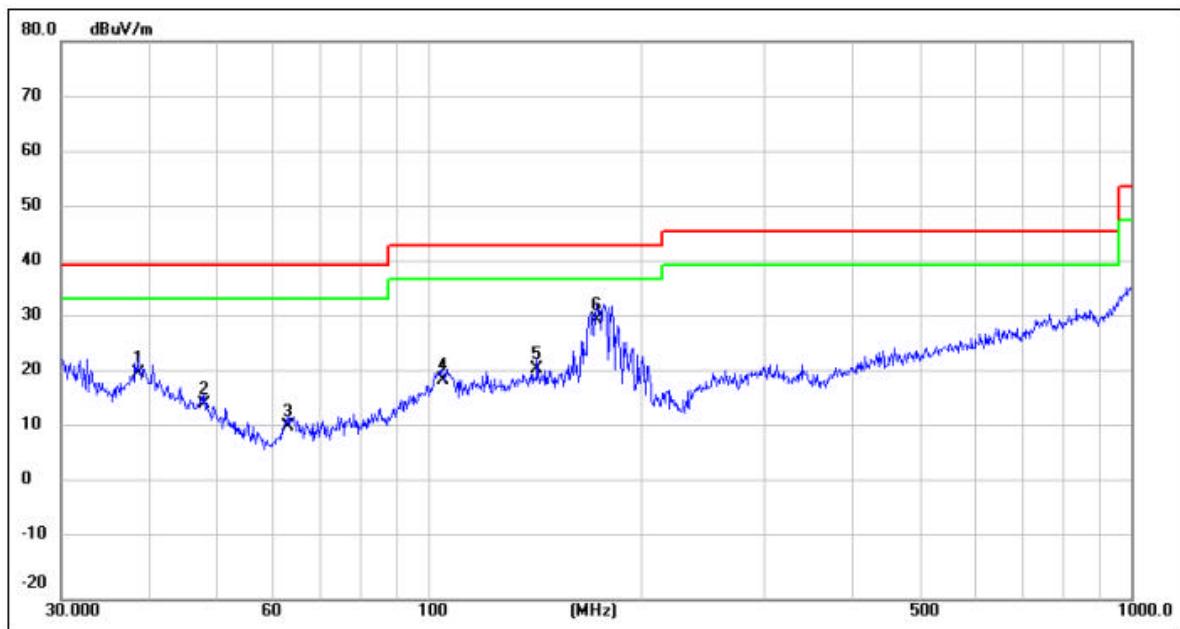
Site:	Antenna::Horizontal		Temperature(C):24.5(C)
Limit:	FCC Part15C Radiation(QP)		Humidity(%):55%
M/N.:	BT150	Power Rating:	AC 120V/60Hz
Mode:	BT 2402	Test Engineer:	Ken
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	31.0706	22.29	-0.79	21.50	40.00	-18.50	QP			
2	38.6160	26.22	-5.03	21.19	40.00	-18.81	QP			
3	103.4421	24.81	-4.57	20.24	43.50	-23.26	QP			
4	135.9822	22.35	-2.86	19.49	43.50	-24.01	QP			
5 *	171.3926	32.59	-5.51	27.08	43.50	-16.42	QP			
6	209.3129	32.83	-6.89	25.94	43.50	-17.56	QP			



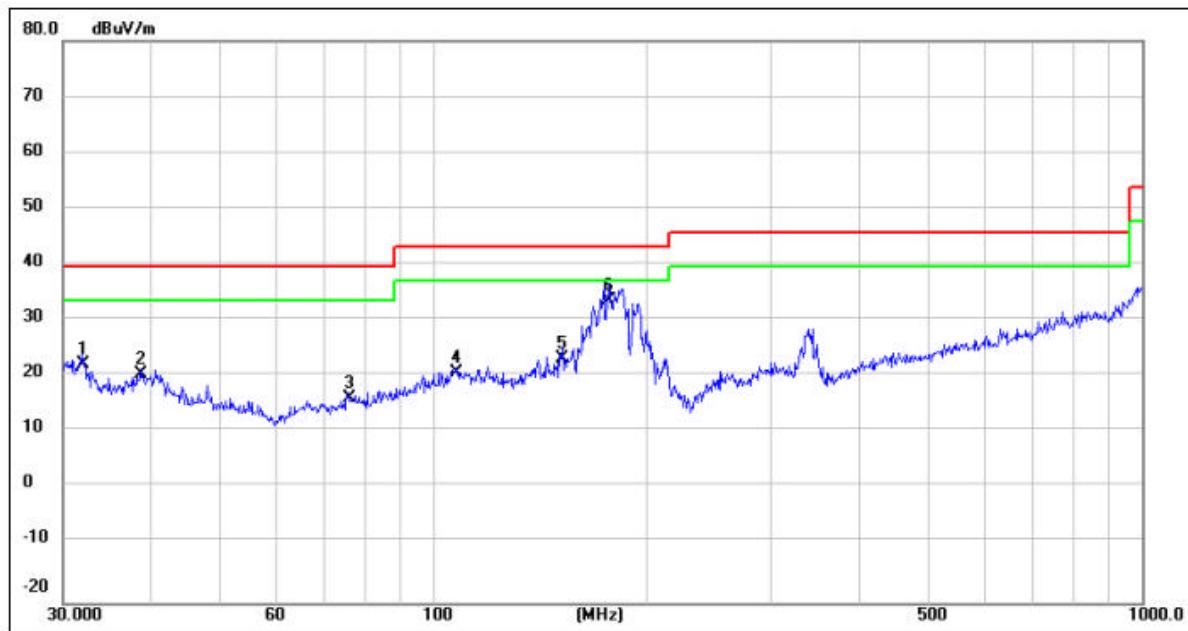
Site:		Antenna::Vertical	Temperature(C):24.5(C)
Limit:	FCC Part15C Radiation(QP)		Humidity(%):55%
M/N.:	BT150	Power Rating:	AC 120V/60Hz
Mode:	BT 2441	Test Engineer:	Ken
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	30.2111	21.83	0.14	21.97	40.00	-18.03	QP			
2	40.5591	25.84	-5.23	20.61	40.00	-19.39	QP			
3	76.2442	26.67	-11.50	15.17	40.00	-24.83	QP			
4	104.9033	24.68	-4.48	20.20	43.50	-23.30	QP			
5	116.9495	24.21	-3.48	20.73	43.50	-22.77	QP			
6 *	173.8135	39.22	-5.92	33.30	43.50	-10.20	QP			



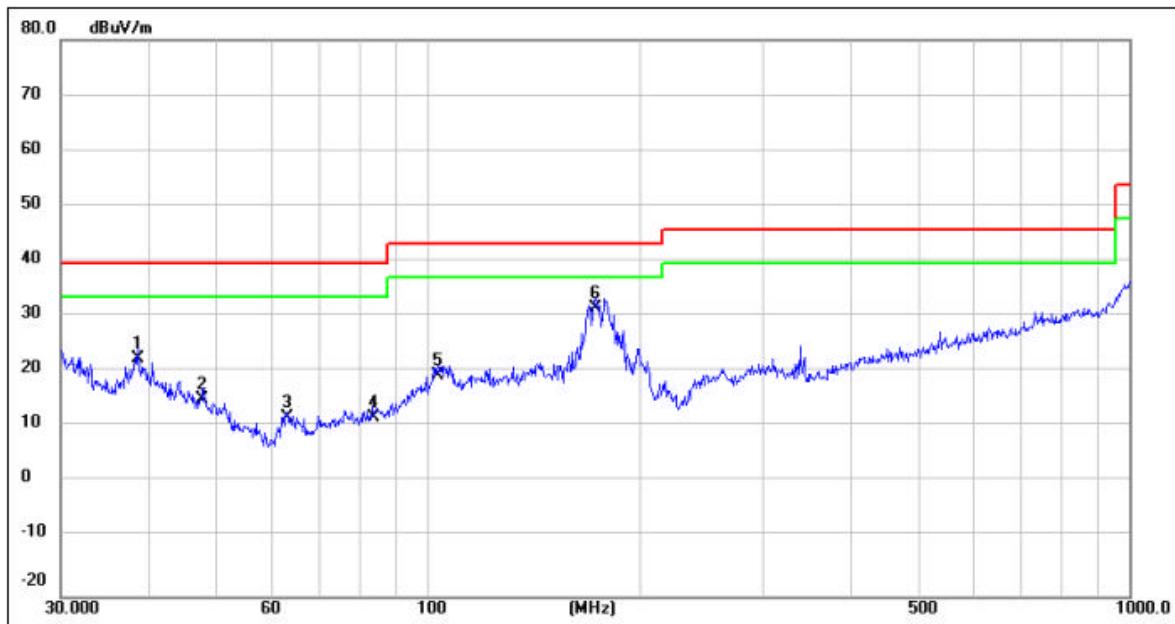
Site:	Antenna::Horizontal	Temperature(C):24.5(C)
Limit:	FCC Part15C Radiation(QP)	Humidity(%):55%
M/N.:	BT150	Power Rating:
Mode:	BT 2441	Test Engineer:
Note:		Ken

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	38.6160	25.66	-5.03	20.63	40.00	-19.37	QP			
2	47.9940	23.62	-8.69	14.93	40.00	-25.07	QP			
3	63.0916	25.07	-14.08	10.99	40.00	-29.01	QP			
4	104.5361	23.91	-4.50	19.41	43.50	-24.09	QP			
5	142.8243	24.19	-2.82	21.37	43.50	-22.13	QP			
6 *	173.8135	36.15	-5.92	30.23	43.50	-13.27	QP			



Site:		Antenna::Vertical	Temperature(C):24.5(C)
Limit:	FCC Part15C Radiation(QP)		Humidity(%):55%
M/N.:	BT150	Power Rating:	AC 120V/60Hz
Mode:	BT 2480	Test Engineer:	Ken
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	31.9566	24.27	-1.75	22.52	40.00	-17.48	QP			
2	38.6259	25.78	-5.03	20.75	40.00	-19.25	QP			
3	75.7816	28.22	-11.57	16.65	40.00	-23.35	QP			
4	107.6475	25.47	-4.32	21.15	43.50	-22.35	QP			
5	151.8432	27.37	-3.66	23.71	43.50	-19.79	QP			
6 *	177.2022	40.48	-6.49	33.99	43.50	-9.51	QP			



Site:		Antenna::Horizontal	Temperature(C):24.5(C)
Limit:	FCC Part15C Radiation(QP)		Humidity(%):55%
M/N.:	BT150	Power Rating:	AC 120V/60Hz
Mode:	BT 2480	Test Engineer:	Ken
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.			
1	38.6160	27.83	-5.03	22.80	40.00	-17.20	QP			
2	47.8260	24.09	-8.59	15.50	40.00	-24.50	QP			
3	63.0916	26.47	-14.08	12.39	40.00	-27.61	QP			
4	83.5222	22.56	-10.18	12.38	40.00	-27.62	QP			
5	103.4421	24.50	-4.57	19.93	43.50	-23.57	QP			
6 *	173.2051	37.75	-5.82	31.93	43.50	-11.57	QP			

## 8.8 CONDUCTED EMISSION TEST

### 8.8.1 Applicable Standard

According to FCC Part 15.207(a)

### 8.8.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies  
 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Remark: Test results were obtained from the following equation:

$$\begin{aligned} \text{Measurement (dB}\mu\text{V)} &= \text{LISN Factor (dB)} + \text{Cable Loss (dB)} + \text{Reading (dB}\mu\text{V)} \\ \text{Margin (dB)} &= \text{Measurement (dB}\mu\text{V)} - \text{Limit (dB}\mu\text{V)} \end{aligned}$$

### 8.8.3 Test Configuration

Test according to clause 6.3 conducted emission test setup

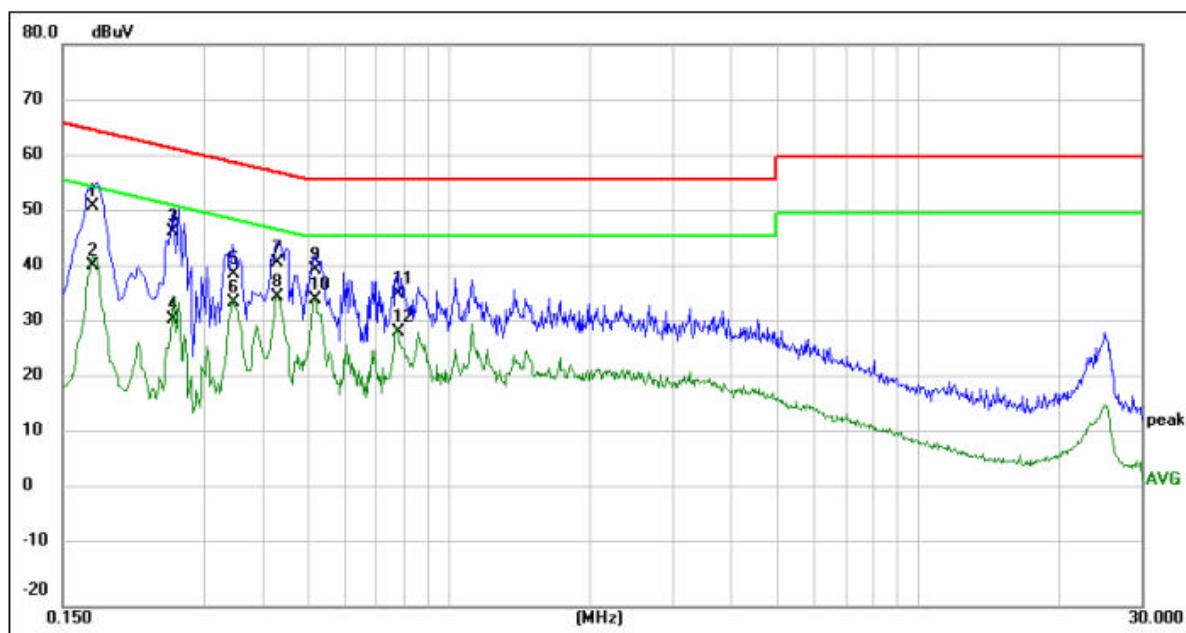
### 8.8.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.  
 Maximum procedure was performed on the highest emissions to ensure EUT compliance.  
 Repeat above procedures until all frequency measured were complete.

### 8.8.5 Test Results

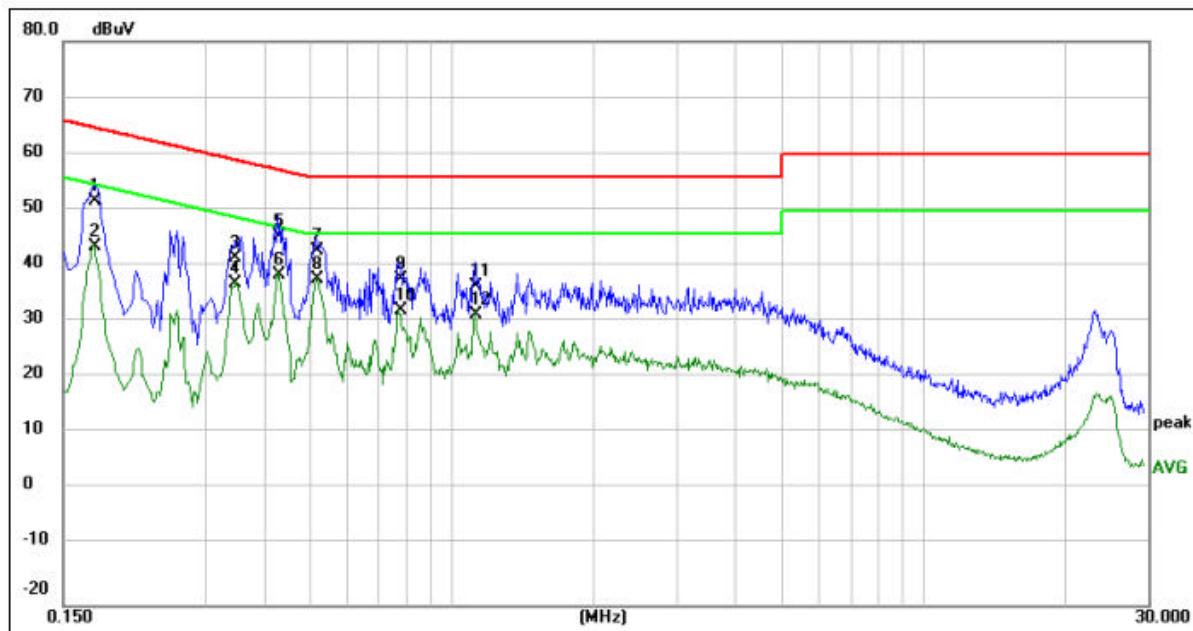
Pass

The 120V &240V voltage have been tested, and the worst result recorded was report as below:



Site:	Phase:L1		Temperature(C):24(C)
Limit:	FCC Part 15C Conduction(QP)		Humidity(%):53%
M/N.:	BT150	Power Rating:	AC120V/60Hz
Mode:	BT Mode	Test Engineer:	Ken
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1737	40.52	10.75	51.27	64.78	-13.51	QP	
2	0.1737	29.85	10.75	40.60	54.78	-14.18	AVG	
3	0.2580	34.92	11.85	46.77	61.50	-14.73	QP	
4	0.2580	19.33	11.85	31.18	51.50	-20.32	AVG	
5	0.3460	27.28	11.88	39.16	59.06	-19.90	QP	
6	0.3460	22.29	11.88	34.17	49.06	-14.89	AVG	
7	0.4300	29.29	11.89	41.18	57.25	-16.07	QP	
8	0.4300	23.35	11.89	35.24	47.25	-12.01	AVG	
9	0.5180	28.11	11.89	40.00	56.00	-16.00	QP	
10 *	0.5180	22.75	11.89	34.64	46.00	-11.36	AVG	
11	0.7780	23.70	11.88	35.58	56.00	-20.42	QP	
12	0.7780	17.05	11.88	28.93	46.00	-17.07	AVG	



Site:	Phase:N	Temperature(C):24(C)
Limit:	FCC Part 15C Conduction(QP)	Humidity(%):53%
M/N.:	BT150	Power Rating: AC120V/60Hz
Mode:	BT Mode	Test Engineer: Ken
Note:		

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Margin (dB)	Detector	Comment
1	0.1740	40.89	10.76	51.65	64.77	-13.12	QP	
2	0.1740	32.81	10.76	43.57	54.77	-11.20	AVG	
3	0.3483	29.91	11.88	41.79	59.00	-17.21	QP	
4	0.3483	25.22	11.88	37.10	49.00	-11.90	AVG	
5	0.4300	33.66	11.89	45.55	57.25	-11.70	QP	
6	0.4300	26.86	11.89	38.75	47.25	-8.50	AVG	
7	0.5180	30.95	11.89	42.84	56.00	-13.16	QP	
8 *	0.5180	26.03	11.89	37.92	46.00	-8.08	AVG	
9	0.7780	26.01	11.88	37.89	56.00	-18.11	QP	
10	0.7780	20.51	11.88	32.39	46.00	-13.61	AVG	
11	1.1220	24.96	11.76	36.72	56.00	-19.28	QP	
12	1.1220	19.87	11.76	31.63	46.00	-14.37	AVG	

## 8.9 ANTENNA APPLICATION

### 8.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part 15.203	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 8.9.2 Result

PASS.

The EUT has 1 antenna: PCB Antenna for BT V5.0 with classic model, the gain is 0.5 dBi;

Note:  Antenna use a permanently attached antenna which is not replaceable.  
 Not using a standard antenna jack or electrical connector for antenna replacement  
 The antenna has to be professionally installed (please provide method of installation)

which in accordance to section 15.203, please refer to the internal photos.

## 9 PHOTOGRAPHS

### 9.1 PHOTO OF RADIATION EMISSION MEASUREMENT



## 9.2 PHOTO OF POWER LINE CONDUCTED EMISSION MEASUREMENT



----- END OF REPORT -----