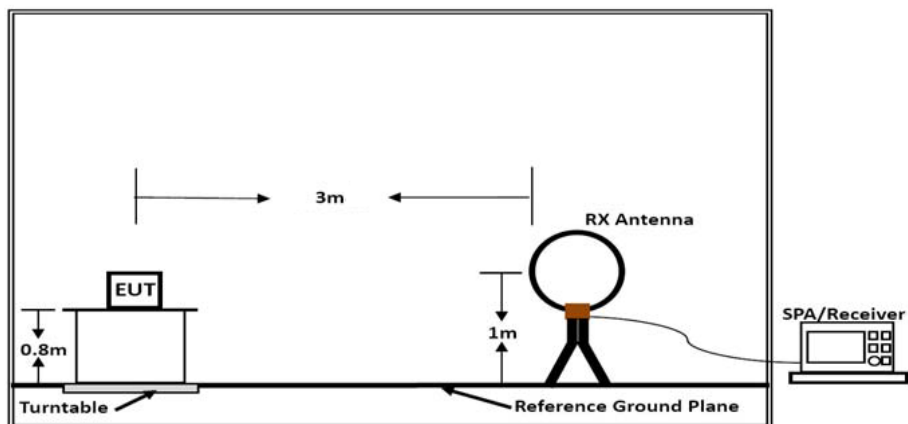
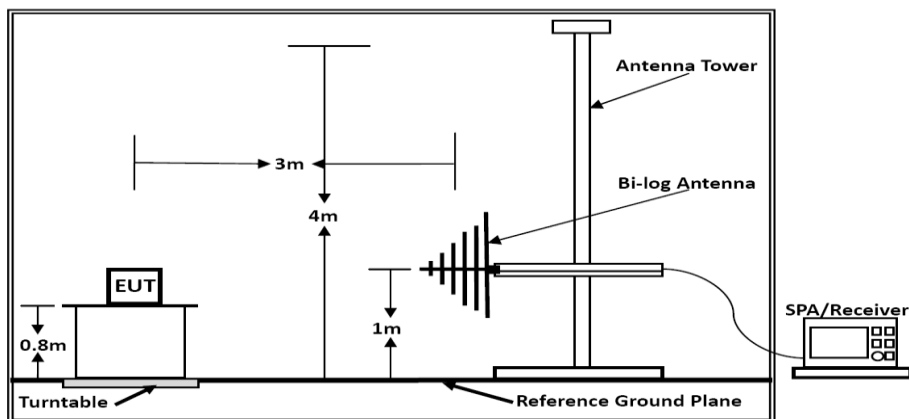




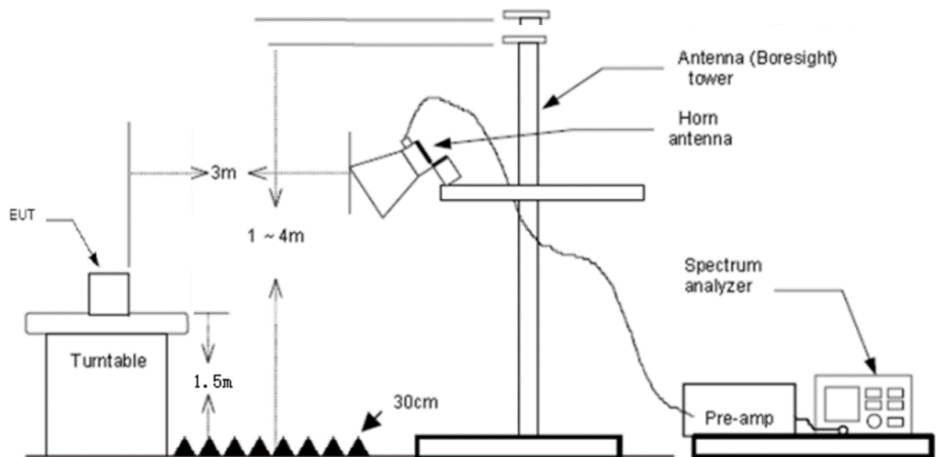
6.6.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade from 3m to 1.5m.



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6.6.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.6.6. Results of Radiated Emissions (9 KHz~30MHz)

Temperature	23.8°C	Humidity	52.1%
Test Engineer	Jay Luo	Configurations	BT

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dBuV)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance} / \text{test distance})$ (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor.

6.6.7. Results of Radiated Emissions (30 MHz~1000 MHz)

Temperature	23.8°C	Humidity	52.1%
Test Engineer	Jay Luo	Configurations	BT

PASS.

The test data please refer to following page.

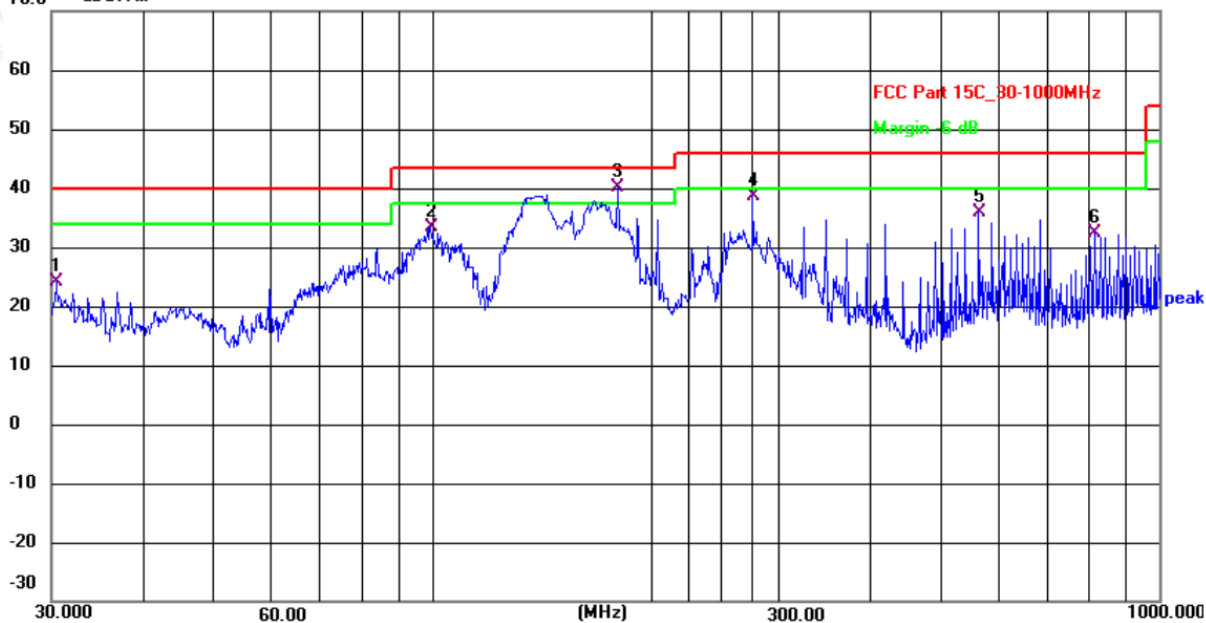


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Horizontal
70.0 dBuV/m

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	30.4237	42.55	-18.40	24.15	40.00	-15.85	QP
2	99.5281	51.57	-18.21	33.36	43.50	-10.14	QP
3	180.0164	58.69	-18.68	40.01	43.50	-3.49	QP
4	276.1235	54.00	-15.37	38.63	46.00	-7.37	QP
5	564.6388	47.03	-11.25	35.78	46.00	-10.22	QP
6	815.9678	41.87	-9.39	32.48	46.00	-13.52	QP

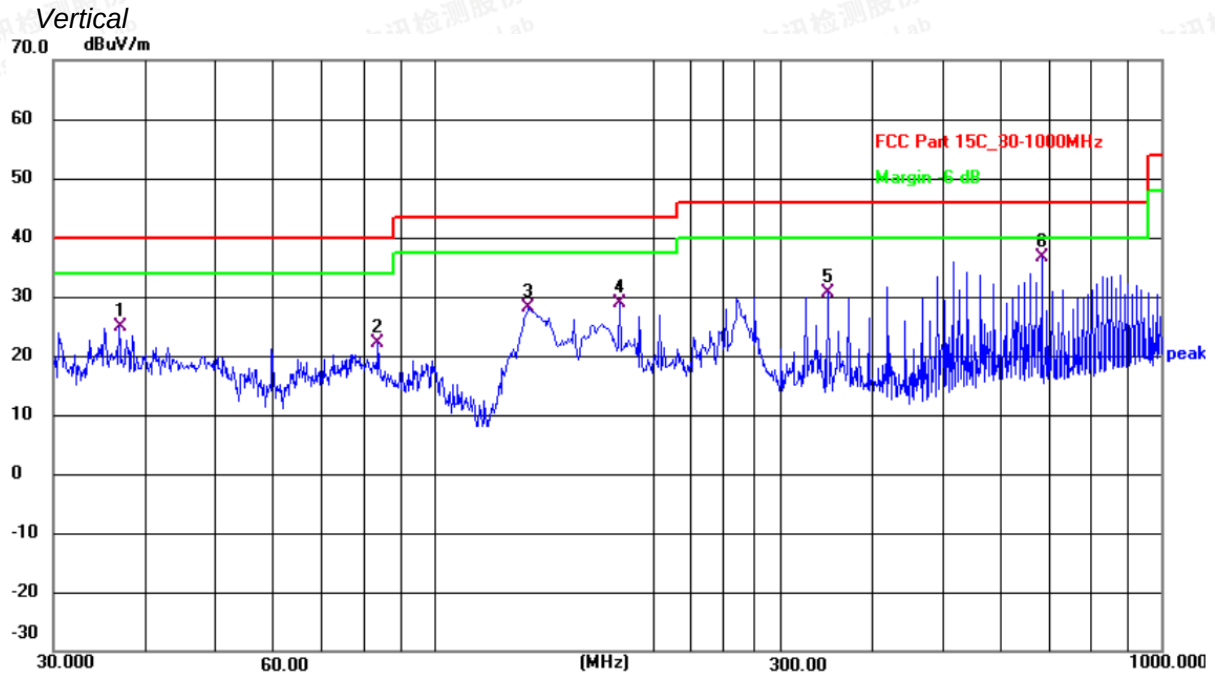


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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	36.8953	42.53	-17.69	24.84	40.00	-15.16	QP
2	83.8155	41.67	-19.50	22.17	40.00	-17.83	QP
3	135.0318	48.75	-20.73	28.02	43.50	-15.48	QP
4	180.0164	47.45	-18.68	28.77	43.50	-14.73	QP
5	348.0274	45.53	-14.81	30.72	46.00	-15.28	QP
6	684.7453	47.72	-11.01	36.71	46.00	-9.29	QP

Note:

- 1). Pre-scan all modes and recorded the worst case results in this report (3Mbps-Middle Channel).
- 2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
- 3). Level = Reading + Factor, Margin = Level-Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor.



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6.6.8. Results of Radiated Emissions (1 GHz~26.5GHz)

Note: All the modes have been tested and recorded worst mode in the report.

The worst test result for GFSK, Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	54.68	33.06	35.04	3.94	56.64	74.00	-17.36	Peak	Horizontal
4804.00	43.09	33.06	35.04	3.94	45.05	54.00	-8.95	Average	Horizontal
4804.00	56.79	33.06	35.04	3.94	58.75	74.00	-15.25	Peak	Vertical
4804.00	43.79	33.06	35.04	3.94	45.75	54.00	-8.25	Average	Vertical

The worst test result for GFSK, Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	55.70	33.16	35.15	3.96	57.67	74.00	-16.33	Peak	Horizontal
4882.00	43.28	33.16	35.15	3.96	45.25	54.00	-8.75	Average	Horizontal
4882.00	60.66	33.16	35.15	3.96	62.63	74.00	-11.37	Peak	Vertical
4882.00	45.10	33.16	35.15	3.96	47.07	54.00	-6.93	Average	Vertical

The worst test result for GFSK, Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	60.44	33.26	35.14	3.98	62.54	74.00	-11.46	Peak	Horizontal
4960.00	44.95	33.26	35.14	3.98	47.05	54.00	-6.95	Average	Horizontal
4960.00	56.10	33.26	35.14	3.98	58.20	74.00	-15.80	Peak	Vertical
4960.00	41.60	33.26	35.14	3.98	43.70	54.00	-10.30	Average	Vertical

The worst test result for $\pi/4$ -DQPSK, Channel 0 / 2402 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	52.51	33.06	35.04	3.94	54.47	74.00	-19.53	Peak	Horizontal
4804.00	42.45	33.06	35.04	3.94	44.41	54.00	-9.59	Average	Horizontal
4804.00	57.71	33.06	35.04	3.94	59.67	74.00	-14.33	Peak	Vertical
4804.00	41.69	33.06	35.04	3.94	43.65	54.00	-10.35	Average	Vertical

The worst test result for $\pi/4$ -DQPSK, Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	59.00	33.16	35.15	3.96	60.97	74.00	-13.03	Peak	Horizontal
4882.00	43.93	33.16	35.15	3.96	45.90	54.00	-8.10	Average	Horizontal
4882.00	57.89	33.16	35.15	3.96	59.86	74.00	-14.14	Peak	Vertical
4882.00	43.41	33.16	35.15	3.96	45.38	54.00	-8.62	Average	Vertical

The worst test result for $\pi/4$ -DQPSK, Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	57.39	33.26	35.14	3.98	59.49	74.00	-14.51	Peak	Horizontal
4960.00	44.12	33.26	35.14	3.98	46.22	54.00	-7.78	Average	Horizontal
4960.00	55.09	33.26	35.14	3.98	57.19	74.00	-16.81	Peak	Vertical
4960.00	41.34	33.26	35.14	3.98	43.44	54.00	-10.56	Average	Vertical



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*The worst test result for 8-DPSK, Channel 0 / 2402 MHz*

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4804.00	57.95	33.06	35.04	3.94	59.91	74.00	-14.09	Peak	Horizontal
4804.00	42.65	33.06	35.04	3.94	44.61	54.00	-9.39	Average	Horizontal
4804.00	57.50	33.06	35.04	3.94	59.46	74.00	-14.54	Peak	Vertical
4804.00	43.53	33.06	35.04	3.94	45.49	54.00	-8.51	Average	Vertical

The worst test result for 8-DPSK, Channel 39 / 2441 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4882.00	60.35	33.16	35.15	3.96	62.32	74.00	-11.68	Peak	Horizontal
4882.00	44.41	33.16	35.15	3.96	46.38	54.00	-7.62	Average	Horizontal
4882.00	56.63	33.16	35.15	3.96	58.60	74.00	-15.40	Peak	Vertical
4882.00	44.97	33.16	35.15	3.96	46.94	54.00	-7.06	Average	Vertical

The worst test result for 8-DPSK, Channel 78 / 2480 MHz

Freq. MHz	Reading dBuV	Ant. Fac dB/m	Pre. Fac. dB	Cab. Loss dB	Measured dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol.
4960.00	57.69	33.26	35.14	3.98	59.79	74.00	-14.21	Peak	Horizontal
4960.00	42.81	33.26	35.14	3.98	44.91	54.00	-9.09	Average	Horizontal
4960.00	59.29	33.26	35.14	3.98	61.39	74.00	-12.61	Peak	Vertical
4960.00	43.04	33.26	35.14	3.98	45.14	54.00	-8.86	Average	Vertical

Notes:

1). Measuring frequencies from 9 KHz~10th harmonic or 26.5GHz (which is less), at least have 20dB margin found between lowest internal used/generated frequency to 30MHz.

2). Radiated emissions measured in frequency range from 9 KHz~10th harmonic or 26.5GHz (which is less) were made with an instrument using Peak detector mode.

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.

4). Measured Level = Reading Level + Factor, Margin = Measured Level – Limit,
Factor = Antenna Factor + Cable Loss - Preamp Factor



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6.7. AC Power Line Conducted Emissions

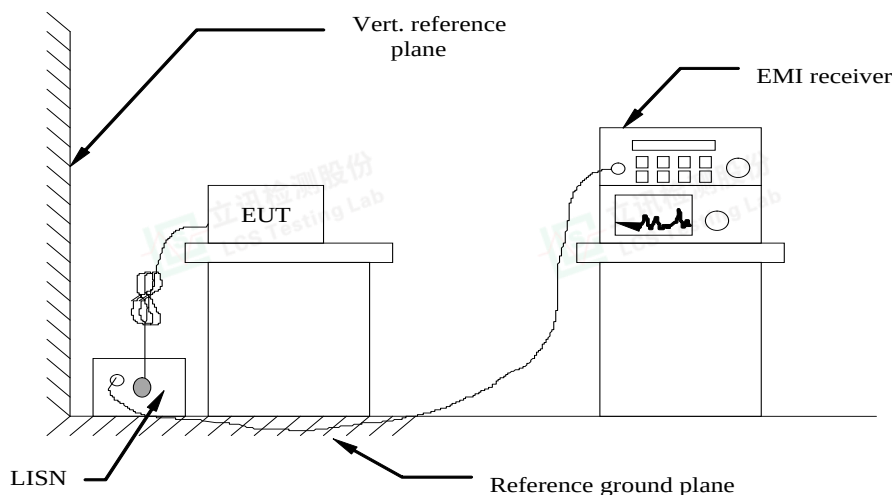
6.7.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

6.7.2 Block Diagram of Test Setup



6.7.3 Test Results

Temperature	23.6°C	Humidity	53.6%
Test Engineer	Jay Luo	Configurations	BT

PASS.

The test data please refer to following page.



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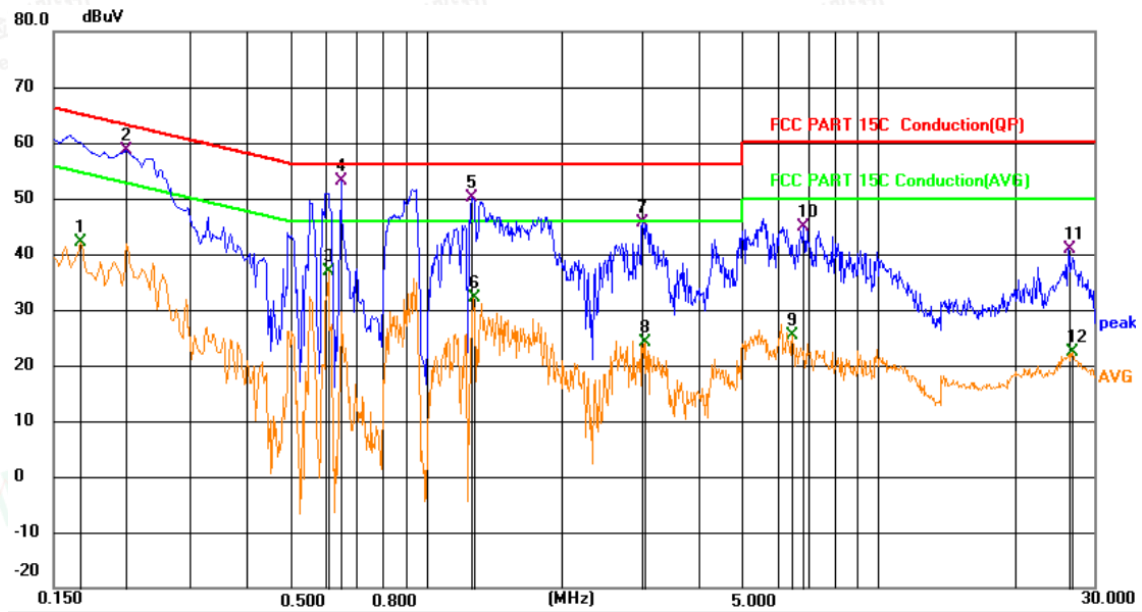
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Line



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	dBuV	Factor	ment			Detector	Comment
1		0.1720	22.55	19.66	42.21	54.86	-12.65	AVG	
2		0.2172	38.95	19.67	58.62	62.93	-4.31	QP	
3		0.6075	17.07	19.70	36.77	46.00	-9.23	AVG	
4	*	0.6472	33.37	19.70	53.07	56.00	-2.93	QP	
5		1.2620	30.39	19.70	50.09	56.00	-5.91	QP	
6		1.2686	12.46	19.70	32.16	46.00	-13.84	AVG	
7		3.0093	25.89	19.73	45.62	56.00	-10.38	QP	
8		3.0574	4.50	19.74	24.24	46.00	-21.76	AVG	
9		6.4537	5.66	19.78	25.44	50.00	-24.56	AVG	
10		6.8410	25.08	19.79	44.87	60.00	-15.13	QP	
11		26.2779	20.94	19.91	40.85	60.00	-19.15	QP	
12		26.8410	2.50	19.91	22.41	50.00	-27.59	AVG	



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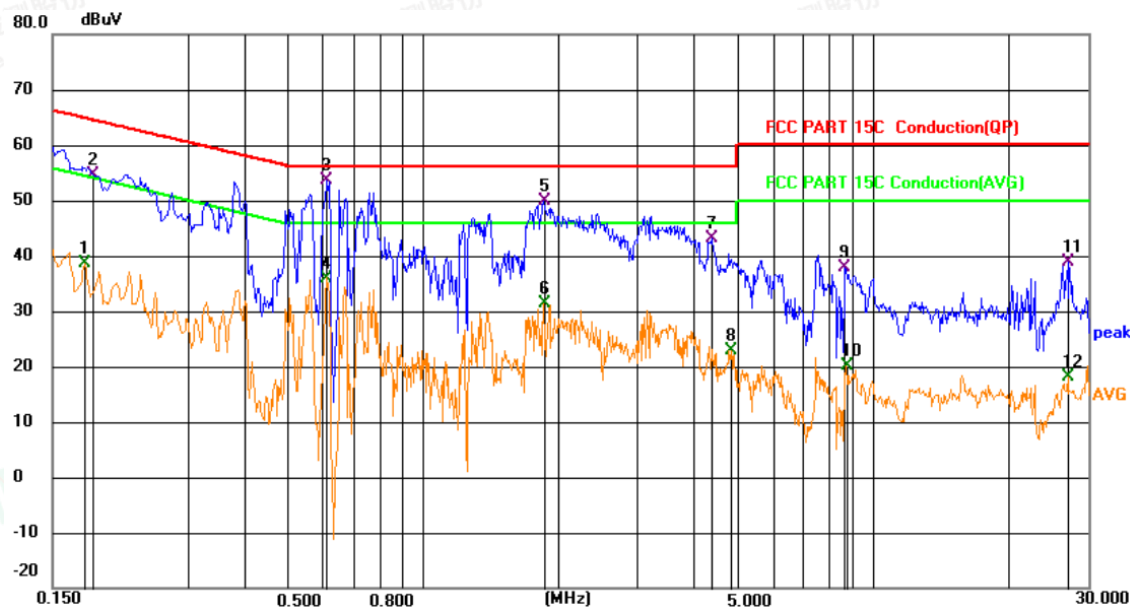
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Neutral



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin		
		MHz	dBuV	Factor	ment	dBuV	dB	Detector	Comment
1		0.1771	18.87	19.66	38.53	54.62	-16.09	AVG	
2		0.1844	35.06	19.66	54.72	64.29	-9.57	QP	
3	*	0.6134	33.94	19.70	53.64	56.00	-2.36	QP	
4		0.6134	16.19	19.70	35.89	46.00	-10.11	AVG	
5		1.8554	30.10	19.74	49.84	56.00	-6.16	QP	
6		1.8554	11.68	19.74	31.42	46.00	-14.58	AVG	
7		4.3891	23.34	19.84	43.18	56.00	-12.82	QP	
8		4.8391	2.99	19.84	22.83	46.00	-23.17	AVG	
9		8.6821	17.99	19.91	37.90	60.00	-22.10	QP	
10		8.7180	0.12	19.91	20.03	50.00	-29.97	AVG	
11		27.0555	19.04	19.90	38.94	60.00	-21.06	QP	
12		27.0555	-1.77	19.90	18.13	50.00	-31.87	AVG	

***Note: Pre-scan all modes and recorded the worst case results in this report (3Mbps-Middle Channel).
Measurement = Reading + Correct Factor, Margin = Measurement - Limit,
Correct Factor=Lisn Factor+Cable Factor.



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6.8. On Time and Duty Cycle

6.8.1. Standard Applicable

None: for reporting purpose only.

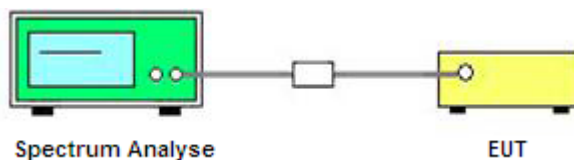
6.8.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

6.8.3. Test Procedures

1. Set the center frequency of the spectrum analyzer to the transmitting frequency;
2. Set the span=0MHz, RBW=8.0MHz, VBW=8.0MHz, Sweep time=Auto
3. Detector = peak;
4. Trace mode = Single hold.

6.8.4. Test Setup Layout



6.8.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

6.8.6. Test result

For reporting purpose only.

Please refer to Appendix A.8



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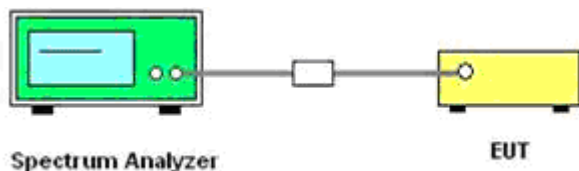


6.9. Emissions in Restricted Band

6.9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. 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)).

6.9.2. Test Setup Layout



6.9.3. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

6.9.4. Test Procedures

According to KDB 412172 section 1.1 Field Strength Approach (linear terms):

$$\text{eirp} = p_t \times g_t = (E \times d)^2 / 30$$

Where:

p_t = transmitter output power in watts,

g_t = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m).

$$\text{erp} = \text{eirp} / 1.64 = (E \times d)^2 / (30 \times 1.64)$$

Where all terms are as previously defined.

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Middle Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, for Radiated emissions restricted band RBW=1MHz, VBW=3MHz for peak detector and RBW=1MHz, VBW=1/T for Peak detector.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.



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6. Measure the conducted output power (in dBm) using the detector specified by the appropriate regulatory agency for guidance regarding measurement procedures for determining quasi-peak, peak, and average conducted output power, respectively).
7. Add the maximum transmit antenna gain (in dBi) to the measured output power level to determine the EIRP level (see 12.2.5 for guidance on determining the applicable antenna gain)
8. Add the appropriate maximum ground reflection factor to the EIRP level (6 dB for frequencies ≤ 30 MHz, 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive and 0 dB for frequencies > 1000 MHz).
9. For devices with multiple antenna-ports, measure the power of each individual chain and sum the EIRP of all chains in linear terms (e.g., Watts, mW).
10. Compare the resultant electric field strength level to the applicable regulatory limit.
11. Perform radiated spurious emission test duress until all measured frequencies were complete.

6.9.5. Test Results

PASS

Please refer to Appendix A.9

Remark:

1. Measured at difference Packet Type for each mode and recorded worst case for each mode.
2. Worst case data at DH5 for GFSK, 2DH5 for $\pi/4$ -DQPSK, 3DH5 for 8-DPSK modulation type;
3. Measured at Hopping and Non-Hopping mode, recorded worst at Non-Hopping mode.
4. The other emission levels were very low against the limit.
5. The average measurement was not performed when the peak measured data under the limit of average detection.
6. Detector AV is setting spectrum/receiver. RBW=1MHz/VBW=1/T/Sweep time=Auto/Detector=Peak;
7. Since the out-of-band characteristics of the EUT transmit antenna will often be unknown, the use of a conservative antenna gain value is necessary. Thus, when determining the EIRP based on the measured conducted power, the upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands, or 2 dBi, whichever is greater. However, for devices that operate in multiple frequency bands while using the same transmit antenna, the highest gain of the antenna within the operating band nearest in frequency to the restricted band emission being measured may be used in lieu of the overall highest gain when the emission is at a frequency that is within 20 percent of the nearest band edge frequency, but in no case shall a value less than 2 dBi be used.



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6.10. Pseudorandom Frequency Hopping Sequence

6.10.1 Standard Applicable

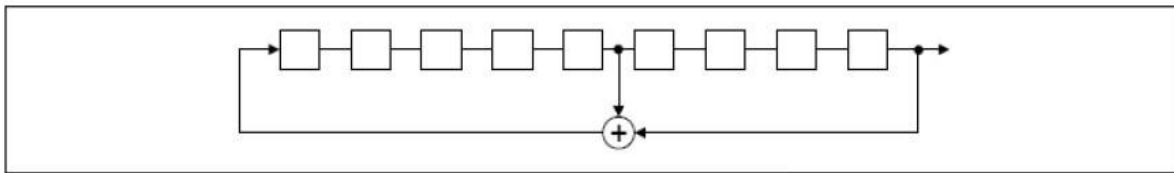
For 47 CFR Part 15C sections 15.247 (a) (1) requirement:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hop-ping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400–2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hop-ping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

6.10.2 EUT Pseudorandom Frequency Hopping Sequence Requirement

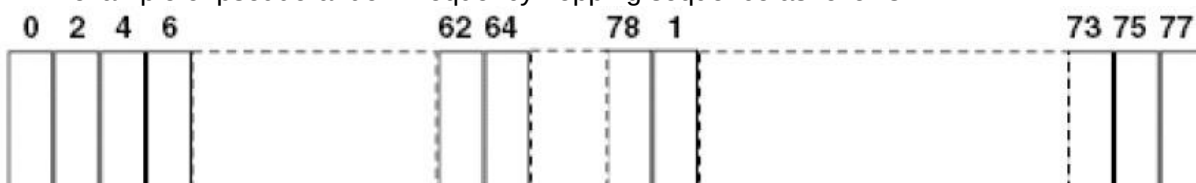
The pseudorandom frequency hopping sequence may be generated in a nine-stage shift register whose 5th first stage. The sequence begins with the first one of 9 consecutive ones, for example: the shift register is initialized with nine ones.

- Number of shift register stages:9
- Length of pseudo-random sequence:29-1=511 bits
- Longest sequence of zeros:8(non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of pseudorandom frequency hopping sequence as follows:



Each frequency used equally one the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitter and shift frequencies in synchronization with the transmitted signals.



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6.11. Antenna Requirement

6.11.1 Standard Applicable

According to antenna requirement of §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 re-placed 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 Sections 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 Section 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.

And according to §15.247(4)(1), system operating in the 2400-2483.5MHz bands that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

6.11.2 Antenna Connected Construction

6.11.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

6.11.2.2. Antenna Connector Construction

The directional gains of antenna used for transmitting is 0dBi(Max), and the antenna is an Internal Antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

6.10.2.3. Results: Compliance.



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7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

-----THE END OF TEST REPORT-----



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