EMC
TEST REPORT

Report No.: TS13060077-EME
Model No.: 001
Issued Date: Aug. 30, 2013

Applicant:	**Peloton Interactive LLC** **227 West 29th Street, Ninth Floor. New York, NY 10001**
Test Method/ Standard:	**FCC Part 15 Subpart C Section §15.205、§15.207、§15.209、§15.247, KDB558074 and ANSI C63.4/2003.**
Test By:	**Intertek Testing Services Taiwan Ltd.** **No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,** **Shiang-Shan District, Hsinchu City, Taiwan**

Testing Laboratory
0597

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Title Engineer

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Summary of Tests

Test	Reference	Results
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Power Spectral Density	15.247(e)	Pass
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RF Antenna Conducted Spurious test	15.247(d)	Pass
Radiated Spurious Emission test	15.205, 15.209	Pass
Emission on the Band Edge test	15.247(d)	Pass
AC Power Line Conducted Emission test	15.207	Pass

1. General information

1.1 Identification of the EUT

Product:	Peloton Cycle Console
Model No.:	001
FCC ID.:	2AA3N-QUARTZ
Frequency Range:	2402 MHz ~ 2480 MHz
Channel Number:	40 channels
Frequency of Each Channel:	2402 + 2k MHz; k = 0~39
Channel Bandwidth:	2 MHz
Type of Modulation:	GFSK
Rated Power:	DC12 V from adapter
Power Cord:	N/A
Sample Received:	Jun. 07, 2013
Test Date(s):	Jun. 26, 2013 ~ Jul. 03, 2013
Note 1:	This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.
Note 2:	When determining the test conclusion, the Measurement Uncertainty of test has been considered.

1.2 Adapter information

The EUT will be supplied with a power supply from below list:

No.	Brand	Model no.	Specification
Adapter	TECH	ATS050-P121	I/P: 100-240V, 50-60Hz, 1.2A O/P: 12V, 4.2A

1.3 Additional information about the EUT

The EUT is a Peloton Cycle Console, and was defined as information technology equipment.

For more detail features, please refer to User's manual as file name “Installation guide.pdf”

1.4 Antenna description

The antenna is affixed to the EUT using a unique connector, which allows for replacement of a broken antenna, but DOES NOT use a standard antenna jack or electrical connector.

Antenna Gain	: 3 dBi max
Antenna Type	: PIFA printed antenna
Connector Type	: I-PEX

2. Test specifications

2.1 Test standard

The EUT was performed according to the procedures in FCC Part 15 Subpart C Section §15.205、§15.207、§15.209、§15.247, KDB558074 and ANSI C63.4/2003.

The test of radiated measurements according to FCC Part15 Section 15.33(a) had been conducted and the field strength of this frequency band were all meet limit requirement, thus we evaluate the EUT pass the specified test.

2.2 Operation mode

The EUT was supplied with DC 12 V from adapter(Test voltage: 120Vac, 60 Hz) and the transmission mode was executed test by “Engineer Mode” BT TX test mode.

2.3 Test equipment

Equipment	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
EMI Test Receiver	Rohde & Schwarz	ESCI	100018	2012/11/30	2013/11/29
Spectrum Analyzer	Rohde&schwarz	FSP30	100137	2013/06/21	2014/06/21
Spectrum Analyzer	Rohde&schwarz	FSEK30	100186	2013/01/23	2014/01/23
Horn Antenna (1-18G)	Schwarzbeck	BBHA 9120 D	9120D-456	2012/09/03	2014/09/03
Horn Antenna (14-42G)	SHWARZBECK	BBHA 9170	BBHA9170159	2012/09/05	2014/09/05
Broadband Antenna	SCHWARZBECK	VULB 9168	9168-172	2011/07/26	2013/07/25
Loop Antenna	RolfHeine	LA-285	02/10033	2012/03/20	2014/03/20
Pre-Amplifier	MITEQ	AFS44-00102650--42-10P-44	1495287	2011/10/27	2013/10/26
Pre-Amplifier	MITEQ	JS4-26004000--27-8A	828825	2012/09/08	2014/09/07
Power Meter	Anritsu	ML2495A	0844001	2012/10/09	2013/10/09
Power Senor	Anritsu	MA2411B	0738452	2012/10/9	2013/10/09
WiMAX PSA Spectrum Analyzer	Agilent	E4440A	MY46186191	2013/06/05	2014/06/05

Note: The above equipments are within the valid calibration period.

3. Maximum 6 dB Bandwidth

3.1 Operating environment

Temperature: 24 ℃
Relative Humidity: 55 %
Atmospheric Pressure: 1008 hPa

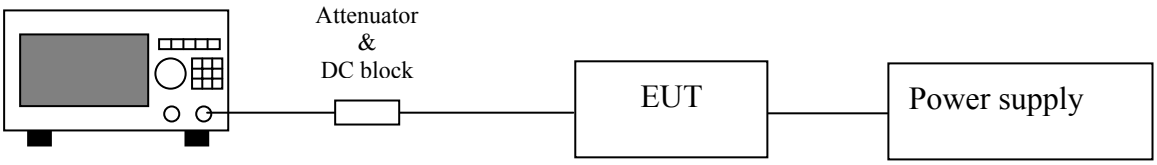
3.2 Test setup & procedure

Method of Measurement:

Reference FCC document: KDB558074

A portion of the transmitted signal is coupled to a Spectrum Analyzer with a resolution bandwidth of 1~5 % of the bandwidth of the transmitted signal. The resolution bandwidth is chosen so as not to reduce the peak level of the measured waveform. The appropriate bandwidth mask is applied to the output waveform to verify compliance.

Test Diagram:

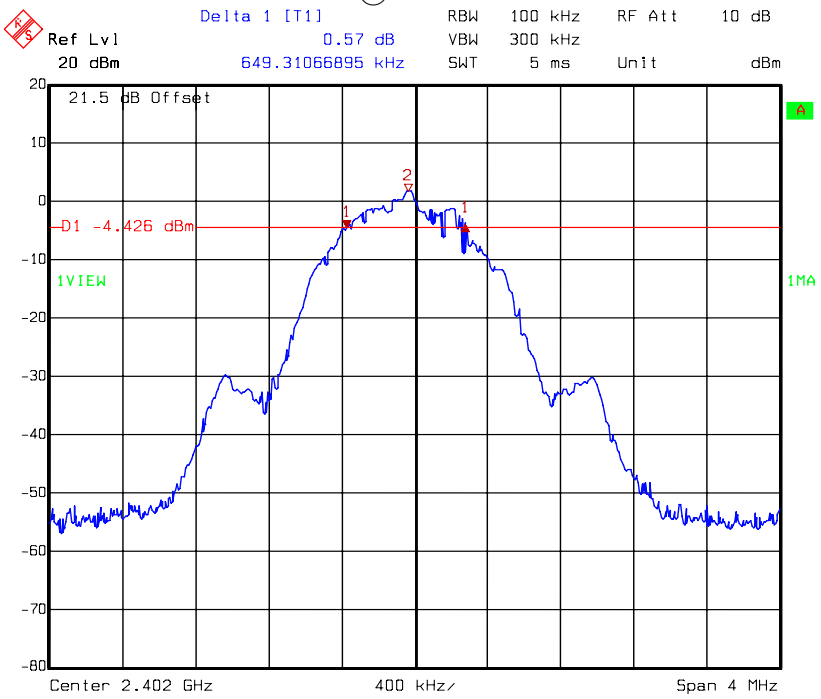


Spectrum Analyzer

3.3 Measured data of Maximum 6 dB Bandwidth test results

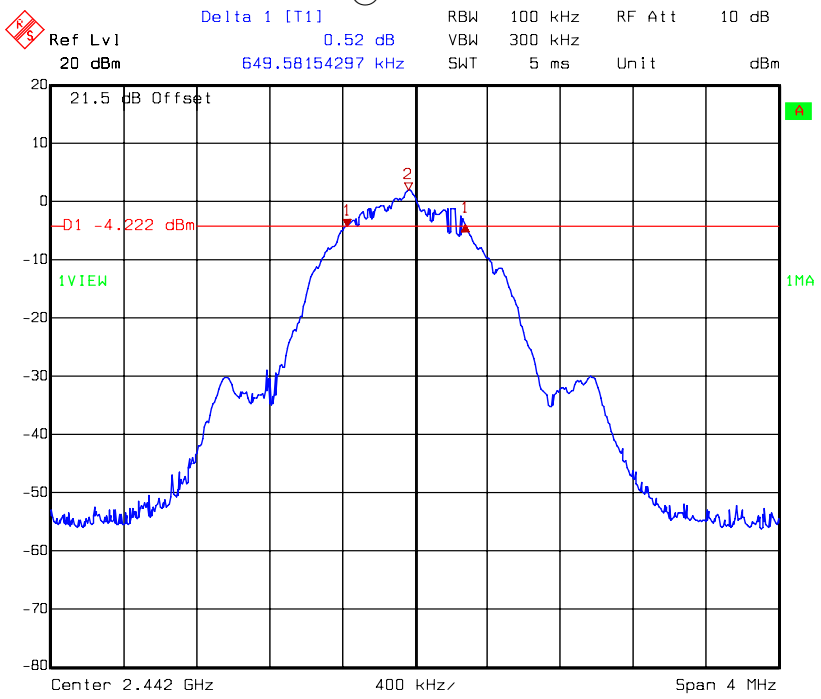
Channel	Frequency (MHz)	6dB Bandwidth(kHz)	Limit (kHz)	Test Result
		Chain0		
0	2402	649.31	>500	Pass
20	2442	649.58		Pass
39	2480	650.32		Pass

6 dB Bandwidth @ GFSK mode channel 0



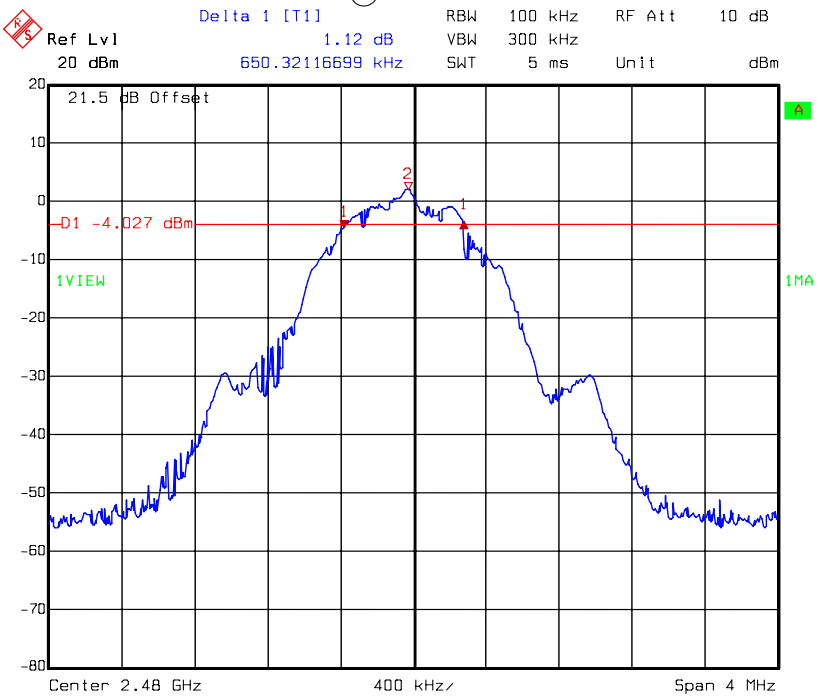
Title: 6dB Occupied Bandwidth (Innocomm , 001)
Comment A: GFSK_Chain0_Ch00_2402
Date: 03.JUL.2013 17:43:46

6 dB Bandwidth @ GFSK mode channel 20



Title: 6dB Occupied Bandwidth (Innocomm , 001)
Comment A: GFSK_Chain0_Ch20_2442
Date: 03.JUL.2013 17:45:50

6 dB Bandwidth @ GFSK mode channel 39



Title: 6dB Occupied Bandwidth (Innocomm , 001)
Comment A: GFSK_Chain0_Ch39_2480
Date: 03.JUL.2013 17:47:54

4. Power Spectral Density

4.1 Operating environment

Temperature: 24 ℃
Relative Humidity: 55 %
Atmospheric Pressure: 1008 hPa

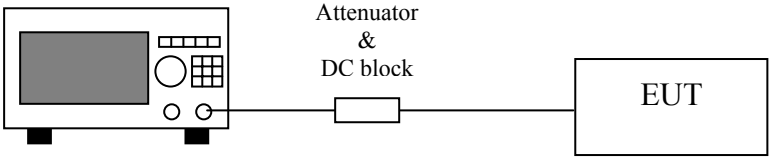
4.2 Test setup & procedure

Method of Measurement:

Reference FCC document: KDB558074

The power spectrum density was measured from the antenna port of the EUT using a 50 ohm spectrum analyzer. Locate and zoom in on emission peak(s) within the passband. Set RBW ≥ 3 kHz, VBW ≥ 3×RBW, sweep time = auto couple. The peak level measured must be no greater than + 8 dBm. Power spectrum density was read directly and cable loss (1 dB)/external attenuator (20 dB) correction was added to the reading to obtain power at the EUT antenna terminals.

Test Diagram:

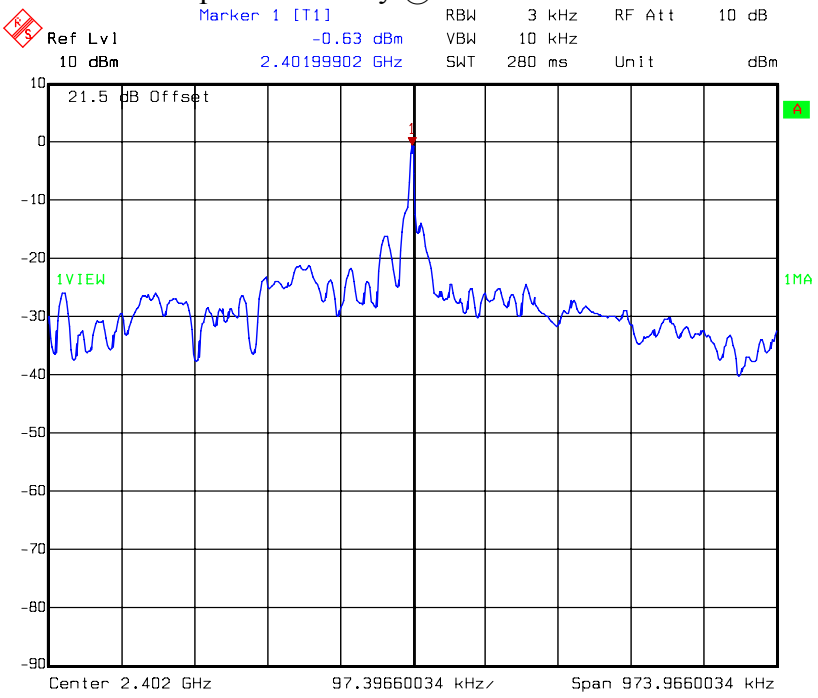


Spectrum Analyzer

4.3 Measured data of Power Spectral Density test results

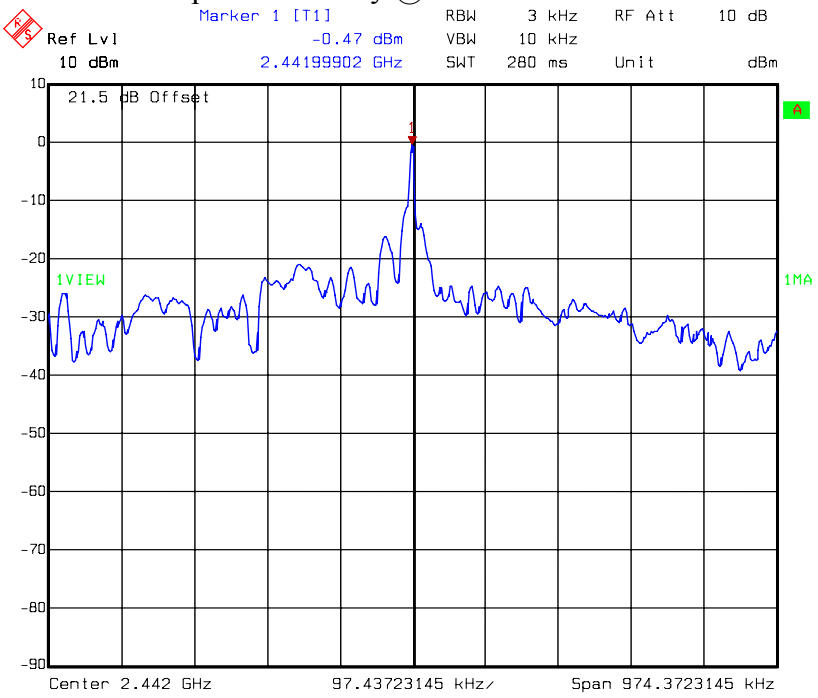
Channel	Frequency (MHz)	PSD(dBm) chain0	PSD (mw)	Limit (dBm)	Margin (dB)
0	2402	-0.63	0.86	8	-8.63
20	2442	-0.47	0.90	8	-8.47
39	2480	-0.24	0.95	8	-8.24

Power Spectral Density @ GFSK mode channel 0



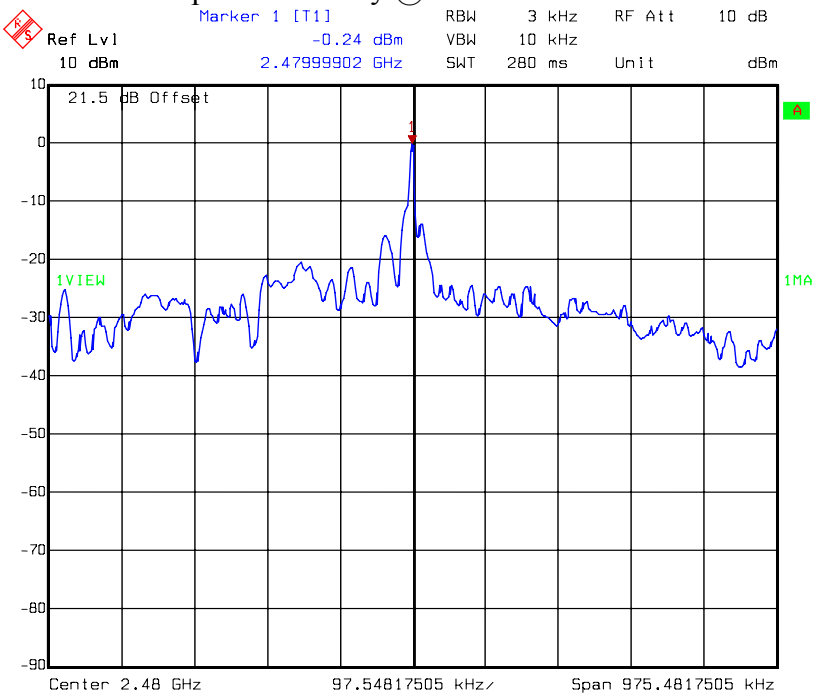
Title: Power Density (Innocomm , 001)
Comment A: GFSK_Chain0_Ch00_2402
Date: 03.JUL.2013 17:45:21

Power Spectral Density @ GFSK mode channel 20



Title: Power Density (Innocomm , 001)
Comment A: GFSK_Chain0_Ch20_2442
Date: 03.JUL.2013 17:47:24

Power Spectral Density @ GFSK mode channel 39



Title: Power Density (Innocomm , 001)
Comment A: GFSK_Chain0_Ch39_2480
Date: 03.JUL.2013 17:49:28

5. Maximum Output Power test

5.1 Operating environment

Temperature: 24 ℃
Relative Humidity: 55 %
Atmospheric Pressure: 1008 hPa

5.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines KDB558074.
The power output per FCC §15.247(b) was measured on the EUT using a 50 ohm SMA cable connected to peak power meter via power sensor. Power was read directly and cable loss correction (1 dB) was added to the reading to obtain power at the EUT antenna terminals. The test was performed at 3 channels (lowest, middle and highest channel).

5.3 Measured data of Maximum Output Power test results

Channel	Frequency (MHz)	Output Power(dBm) (PK)	Output Power (mW)	Limit (W)	Test Result
0	2402	3.04	2.01	1	Pass
20	2442	3.18	2.08		Pass
39	2480	3.06	2.02		Pass

6. RF Antenna Conducted Spurious test

6.1 Operating environment

Temperature:	24	℃
Relative Humidity:	55	%
Atmospheric Pressure:	1008	hPa

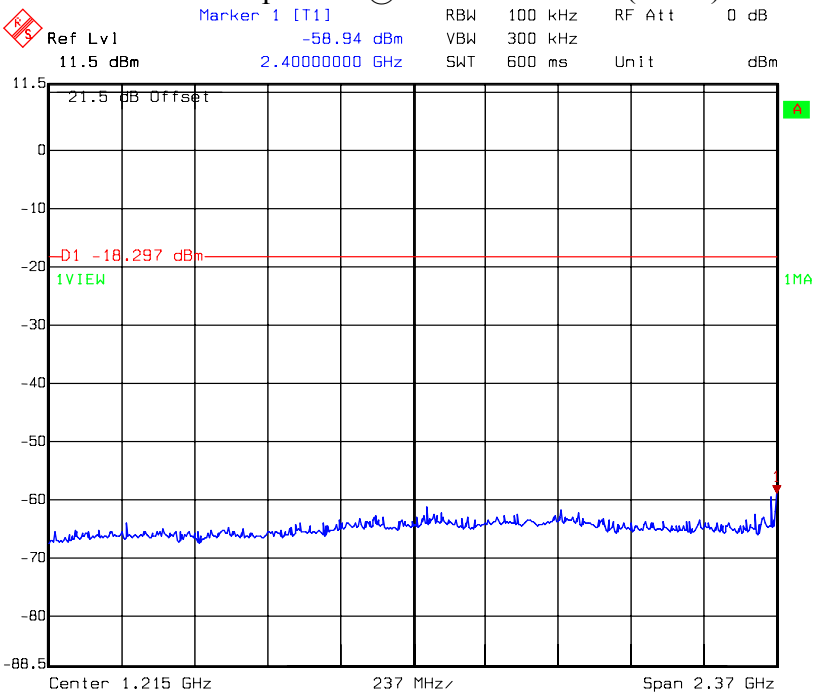
6.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines KDB558074.
The measurements were performed from lowest generated frequency to 10th fundamental frequency RF antenna conducted per FCC 15.247 (c) was measured from the EUT antenna port using a 50ohm spectrum analyzer with the resolution bandwidth set at 100 kHz, and the video bandwidth set at 300 kHz.
Harmonics and spurious noise must be at least 20dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. The table below is the results from the highest emission for each channel within the authorized band. This table was used to determine the spurious limits for each channel.

6.3 Measured data of the highest RF Antenna Conducted Spurious test result

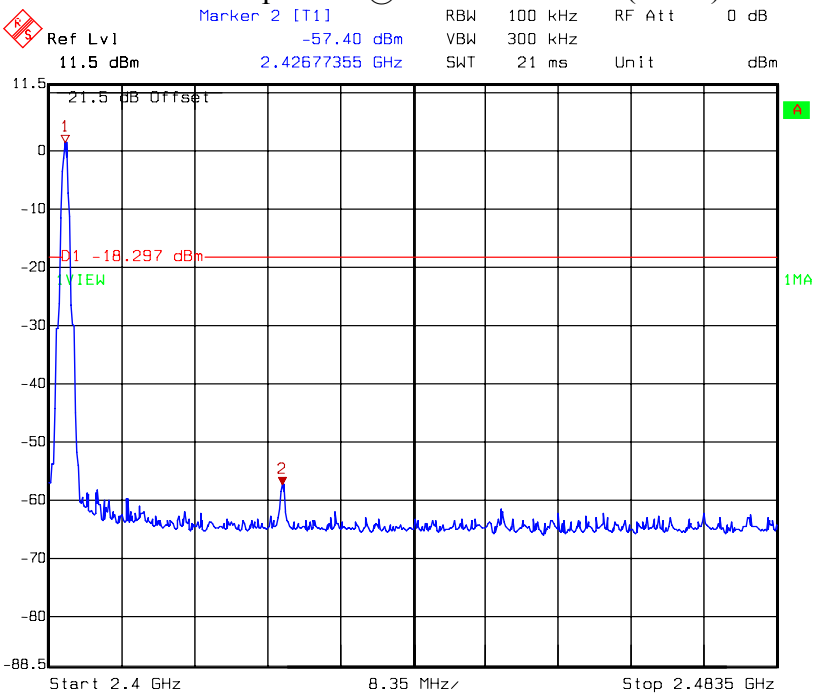
The test results please see the plot below.

Conducted spurious @ GFSK channel 0 (1 of 3)



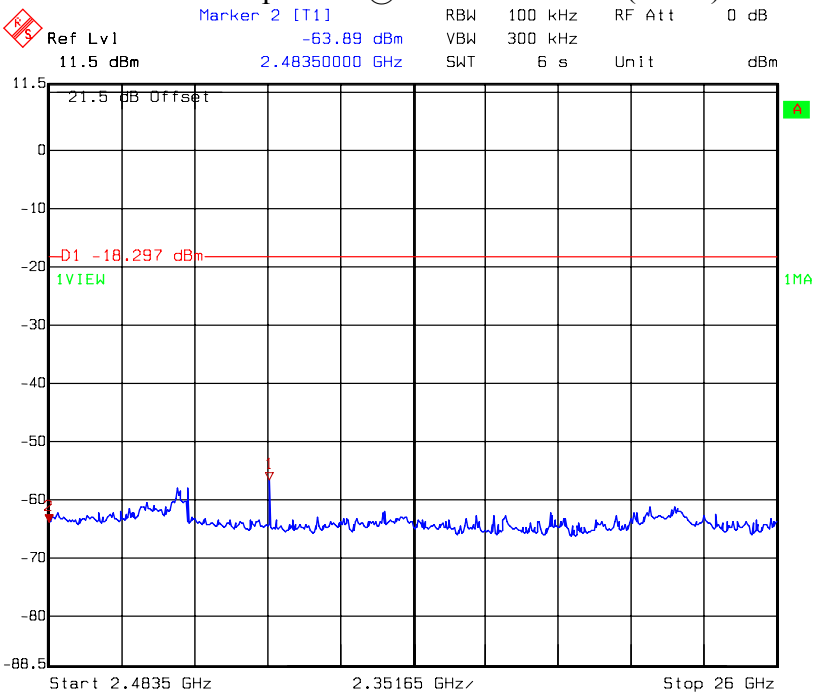
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch00_2402
Date: 03.JUL.2013 17:44:30

Conducted spurious @ GFSK channel 0 (2 of 3)



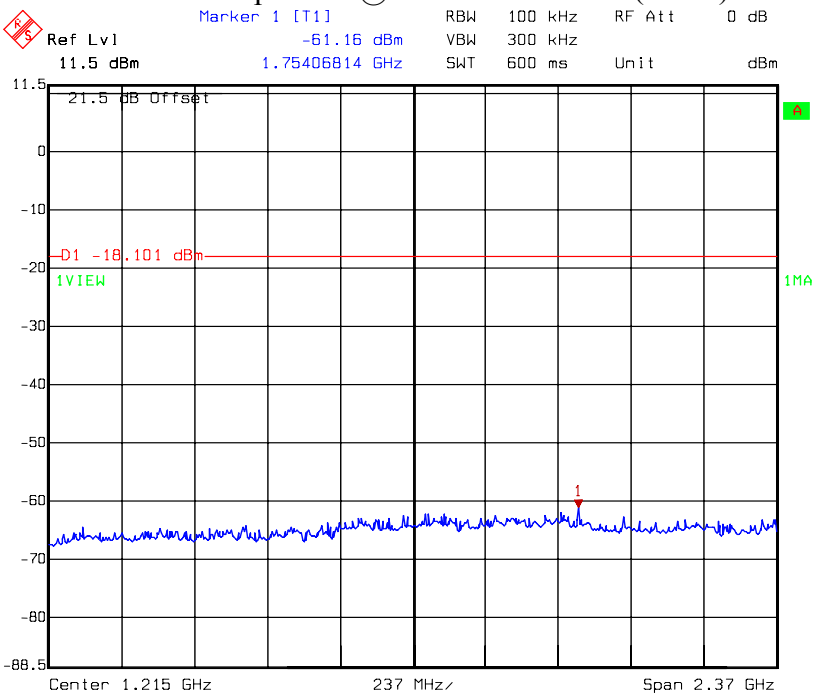
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch00_2402
Date: 03.JUL.2013 17:44:39

Conducted spurious @ GFSK channel 0 (3 of 3)



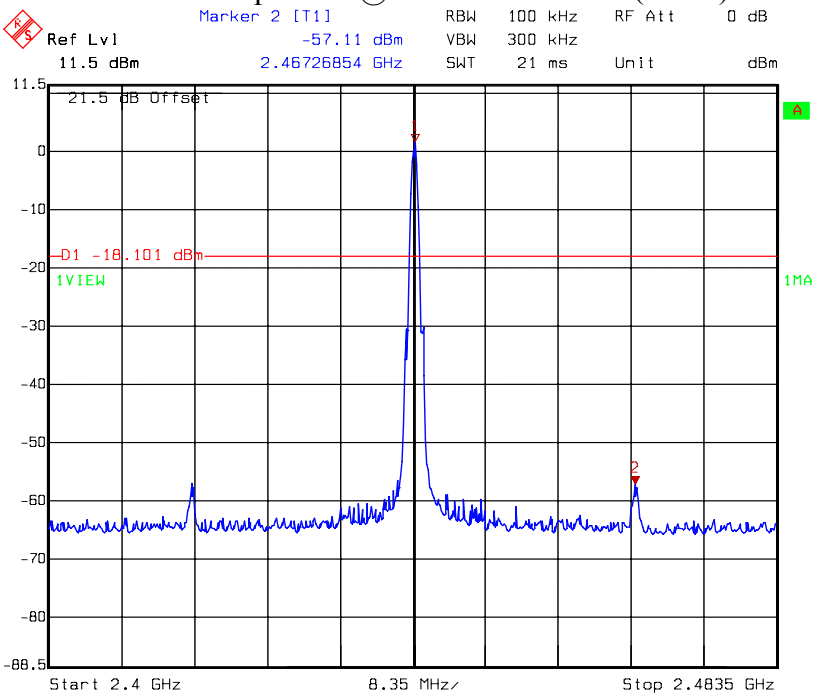
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch00_2402
Date: 03.JUL.2013 17:44:54

Conducted spurious @ GFSK channel 20 (1 of 3)



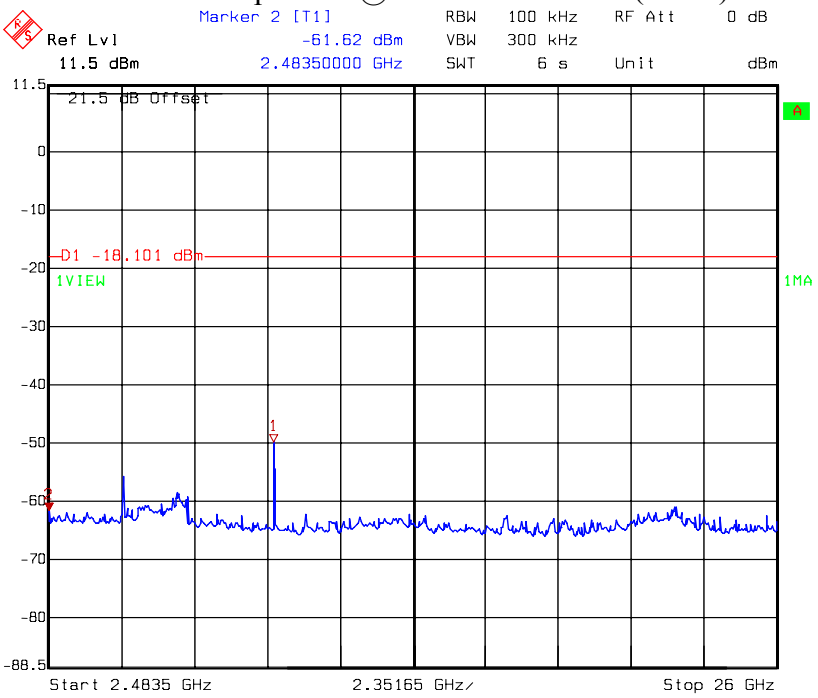
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch20_2442
Date: 03.JUL.2013 17:46:34

Conducted spurious @ GFSK channel 20 (2 of 3)



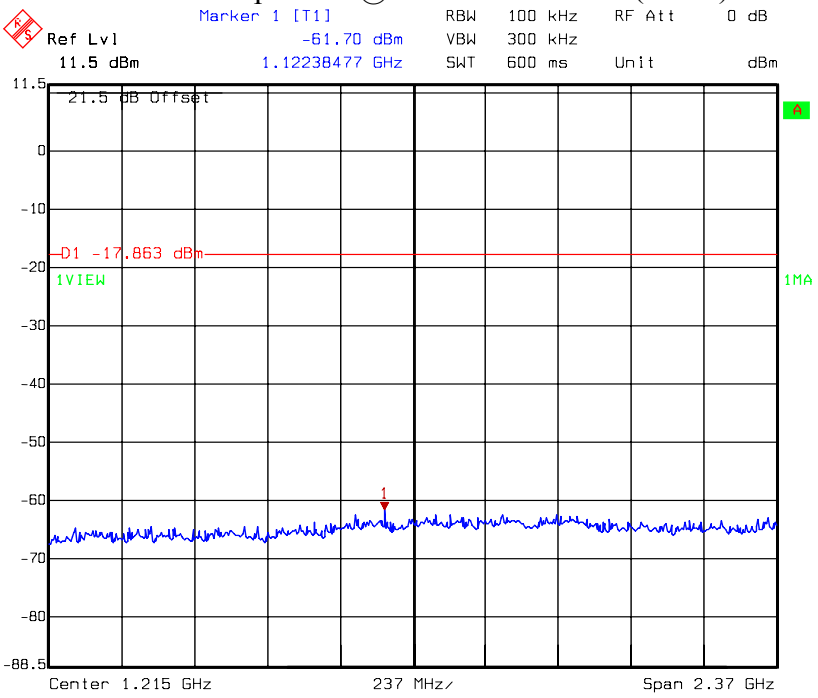
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch20_2442
Date: 03.JUL.2013 17:46:43

Conducted spurious @ GFSK channel 20 (3 of 3)



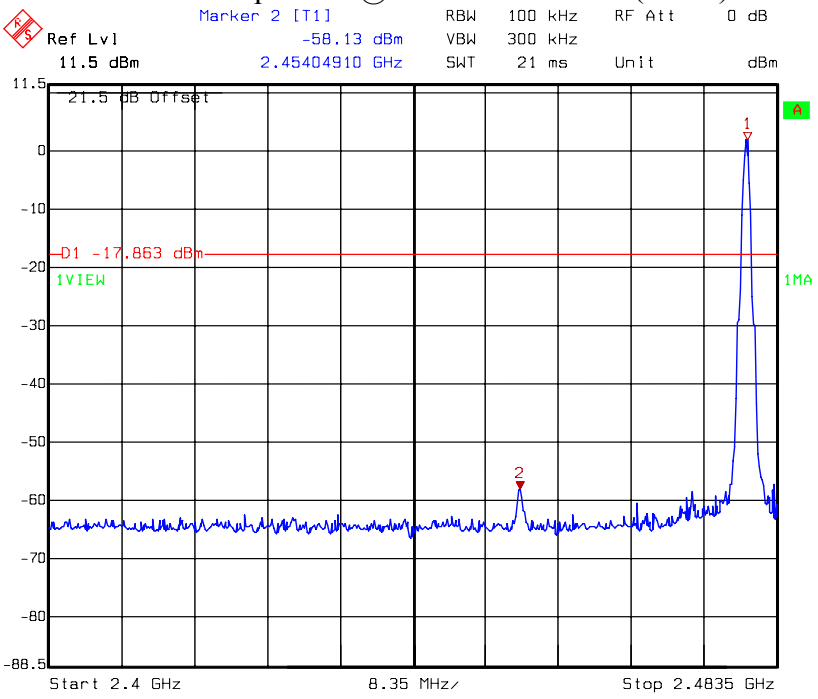
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch20_2442
Date: 03.JUL.2013 17:46:58

Conducted spurious @ GFSK channel 39 (1 of 3)



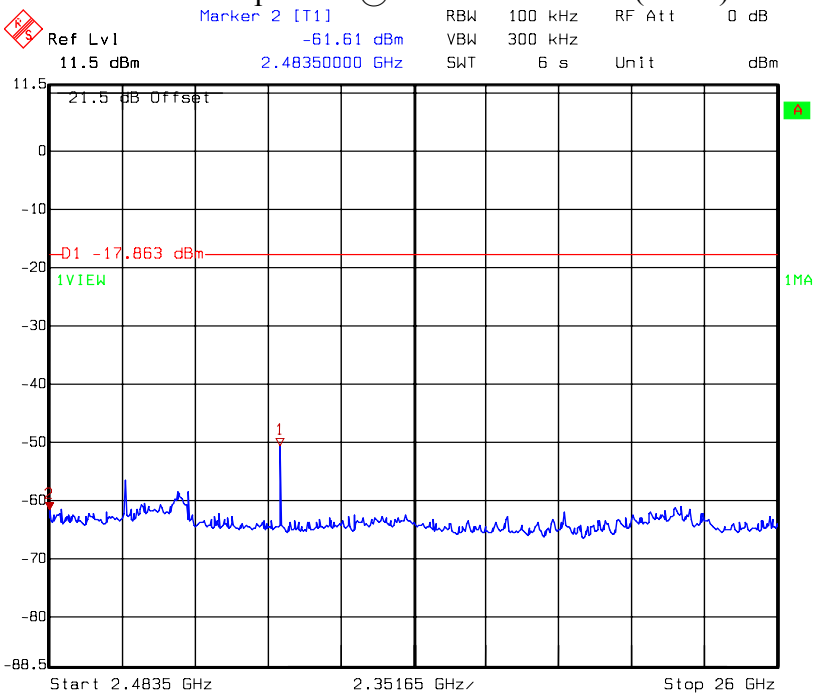
Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch39_2480
Date: 03.JUL.2013 17:48:38

Conducted spurious @ GFSK channel 39 (2 of 3)



Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch39_2480
Date: 03.JUL.2013 17:48:47

Conducted spurious @ GFSK channel 39 (3 of 3)



Title: Conducted Spurious (Innocomm , 001)
Comment A: GFSK_Chain0_Ch39_2480
Date: 03.JUL.2013 17:49:02

7. Radiated Emission test

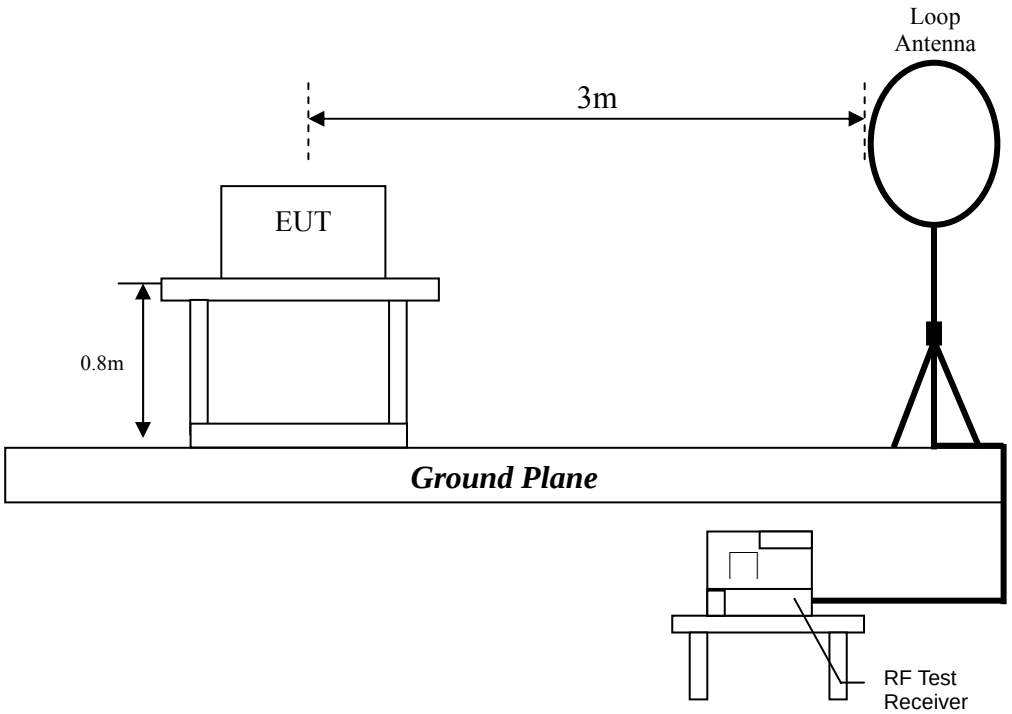
7.1 Operating environment

Temperature:	25	℃
Relative Humidity:	55	%
Atmospheric Pressure:	1008	hPa

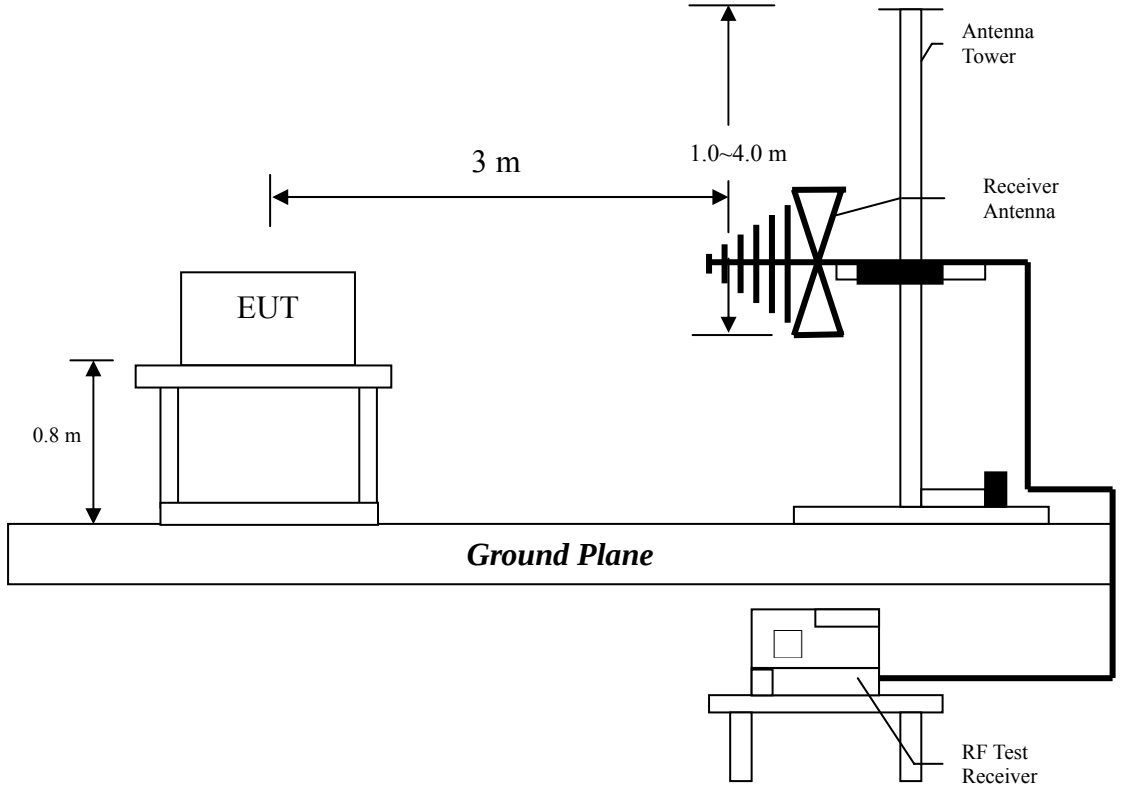
7.2 Test setup & procedure

The test procedure was according to FCC measurement guidelines KDB558074 and ANSI C63.4/2003.
The Diagram below shows the test setup, which is utilized to make these measurements.

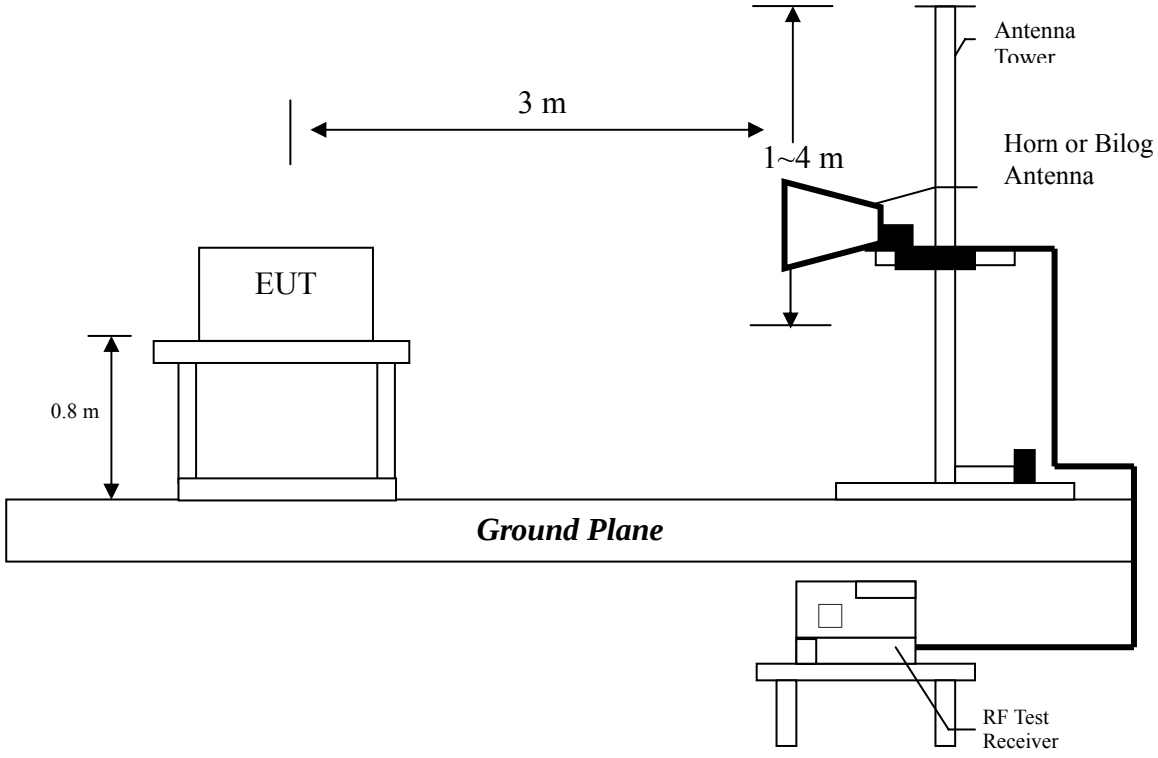
Radiated emission from 9kHz to 30MHz uses Loop Antenna:



Radiated emission from 30MHz to 1GHz uses Bilog Antenna:



Radiated emission above 1GHz uses Horn Antenna:



According to §15.33(a), the spectrum shall be investigated from the lowest radio frequency signal generated in the device, to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Spectrum Analyzer Resolution Bandwidth is 100kHz or greater for frequencies 30MHz to 1GHz, 1MHz – for frequencies above 1GHz.

The EUT for testing is arranged on a wooden turntable. If some peripherals apply to the EUT, the peripherals will be connected to EUT and the whole system. During the test, all cables were arranged to produce worst-case emissions. The signal is maximized through rotation. The height of antenna and polarization is changing constantly for exploring for maximum signal level. The height of antenna can be up to 4 meters and down to 1 meter.

The measurement for radiated emission will be done at the distance of three meters unless the signal level is too low to measure at that distance. In the case of the reading under noise floor, a pre-amplifier is used and/or the test is conducted at a closer distance. And then all readings are extrapolated back to the equivalent 3 meter reading using inverse scaling with distance.

The EUT configuration, please refer to the “Spurious set-up photo.pdf”.

7.3 Emission limits

The spurious Emission shall test through the 10th harmonic. 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).

Frequency (MHz)	Field Strength (microvolts/meter)
0.009~0.490	2400/F(kHz)
0.490~1.705	2400/F(kHz)
1.705~30	30
30-88	100
88-216	150
216-960	200
Above 960	500

Remark:
1. In the above table, the tighter limit applies at the band edges.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system

Measurement Uncertainty:
Measurement uncertainty was calculated in accordance with TR 100 028-1.

Parameter	Uncertainty		
Radiated Emission	Below 1 GHz	Vertical	3.90 dB
		Horizontal	3.86 dB
	Above 1 GHz	Vertical	5.74 dB
		Horizontal	5.55 dB
Conducted Emission	2.08 dB		

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of k=2.

7.4 Radiated spurious emission test data

7.4.1 Measurement results: frequency range from 9kHz to 30MHz

Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
N/A	N/A	N/A	N/A	N/A	N/A	N/A

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

7.4.2 Measurement results: frequencies equal to or less than 1 GHz

The test was performed on EUT under continuously transmitting mode. Channel 0, 20, 39 were verified. The worst case occurred at Tx channel 20.

EUT : 001
Test Condition : GFSK at channel 20

Antenna Polarization	Freq. (MHz)	Receiver Detector	Corr. Factor (dB/m)	Reading (dBuV)	Corrected Level (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
Vertical	336.52	QP	14.98	16.47	31.45	46.00	-14.55
Vertical	404.42	QP	16.47	17.89	34.36	46.00	-11.64
Vertical	449.48	QP	17.64	25.04	42.68	46.00	-3.32
Vertical	613.94	QP	20.75	17.04	37.79	46.00	-8.21
Vertical	705.12	QP	22.29	17.91	40.19	46.00	-5.81
Vertical	986.42	QP	25.49	18.33	43.82	54.00	-10.18
Horizontal	251.16	QP	12.64	18.07	30.71	46.00	-15.29
Horizontal	328.76	QP	14.40	17.45	31.84	46.00	-14.16
Horizontal	518.88	QP	18.77	22.56	41.33	46.00	-4.67
Horizontal	610.06	QP	20.88	17.33	38.20	46.00	-7.80
Horizontal	854.50	QP	24.12	17.91	42.02	46.00	-3.98
Horizontal	980.60	QP	25.83	16.77	42.59	54.00	-11.41

Remark:
1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor

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

7.4.3 Measurement results: frequency above 1GHz

EUT : 001
Test Condition : GFSK at channel 0

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4804.00	PK	V	35.1	38.54	36.39	39.83	54	-14.17
7110.00	PK	V	33	44.6	31.17	42.77	54	-11.23
9608.00	PK	V	32.7	49.3	31.14	47.74	54	-6.26
12120.00	PK	V	31.6	50.87	27.73	47.00	54	-7.00
4890.00	PK	H	35.1	38.54	35.15	38.59	54	-15.41
7290.00	PK	H	33	44.6	30.16	41.76	54	-12.24
9570.00	PK	H	32.7	49.3	30.99	47.59	54	-6.41
1194.00	PK	H	34.9	27.98	58.2	51.28	54	-2.72

Remark:
1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor + Duty Cycle Correction Factor
3. The frequency measured ranges from 1GHz to 25GHz.

EUT : 001
Test Condition : GFSK at channel 20

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4884.00	PK	V	35.1	38.54	38.93	42.37	54	-11.63
7326.00	PK	V	33	44.6	31.5	43.10	54	-10.90
9768.00	PK	V	32.7	49.3	36.39	52.99	54	-1.01
4884.00	PK	H	35.1	38.54	34.09	37.53	54	-16.47
7326.00	PK	H	33	44.6	31.04	42.64	54	-11.36
9768.00	PK	H	32.7	49.3	36.36	52.96	54	-1.04

Remark:
1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor + Duty Cycle Correction Factor
3. The frequency measured ranges from 1GHz to 25GHz.

EUT : 001
Test Condition : GFSK at channel 39

Frequency (MHz)	Spectrum Analyzer Detector	Ant. Pol. (H/V)	Preamp. Gain (dB)	Correction Factor (dB/m)	Reading (dBuV)	Corrected Reading (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
4960.00	PK	H	35.1	38.54	43.17	46.61	54	-7.39
7320.00	PK	V	33	44.6	32.04	43.64	54	-10.36
9920.00	PK	H	32.7	49.3	32.72	49.32	54	-4.68
12400.00	PK	H	31.6	50.87	29.18	48.45	54	-5.55
4960.00	PK	V	35.1	38.54	34.81	38.25	54	-15.75
7440.00	PK	H	33	44.6	30.83	42.43	54	-11.57
9920.00	PK	H	32.7	49.3	32.6	49.20	54	-4.80
11940.00	PK	H	30.3	51.84	30.32	51.86	54	-2.14

Remark:

1. Corr. Factor = Antenna Factor + Cable Loss
2. Corrected Level = Reading + Corr. Factor + Duty Cycle Correction Factor
3. The frequency measured ranges from 1GHz to 25GHz.

8. Emission on the band edge §FCC 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 or a radiated measurement.

8.1 Test setup & procedure

Please refer to the clause 7.2 of this report.

Please see the plot below.

8.2 Test Result

Test Mode: GFSK mode

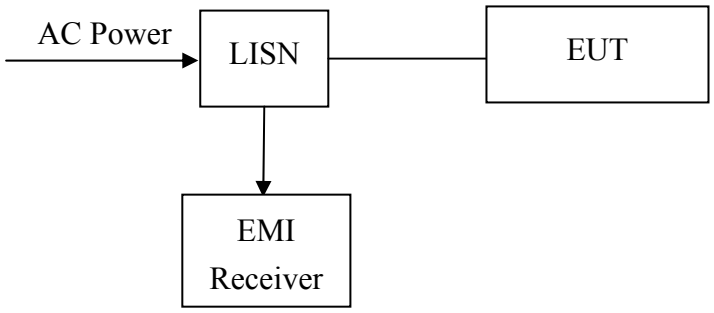
Channel	Frequency (MHz)	Detector	The Max. Field Strength in Restrict Band (dBuV/m)	Limit @ 3 m (dBuV/m)	Margin (dB)
0	2402	PK	57.29	74	-16.71
0	2402	AV	46.50	54	-7.50
39	2480	PK	61.52	74	-12.48
39	2480	AV	53.59	54	-0.41

9. Power Line Conducted Emission test §FCC 15.207

9.1 Operating environment

Temperature:	25	℃
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa

9.2 Test setup & procedure



The test procedure was according to ANSI C63.4/2003.

The EUT are connected to the main power through a line impedance stabilization network (LISN). This provides a 50 ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50 ohm/50uH coupling impedance with 50 ohm termination.
Both sides (Line and Neutral) of AC line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4/2003 on conducted measurement.
The bandwidth of the field strength meter (R & S Test Receiver ESCS 30) is set at 9 kHz.

The EUT configuration please refer to the "Conducted set-up photo.pdf".

9.3 Emission limit

Freq. (MHz)	Conducted Limit (dBuV)	
	Q.P.	Ave.
0.15~0.50	66 – 56*	56 – 46*
0.50~5.00	56	46
5.00~30.0	60	50

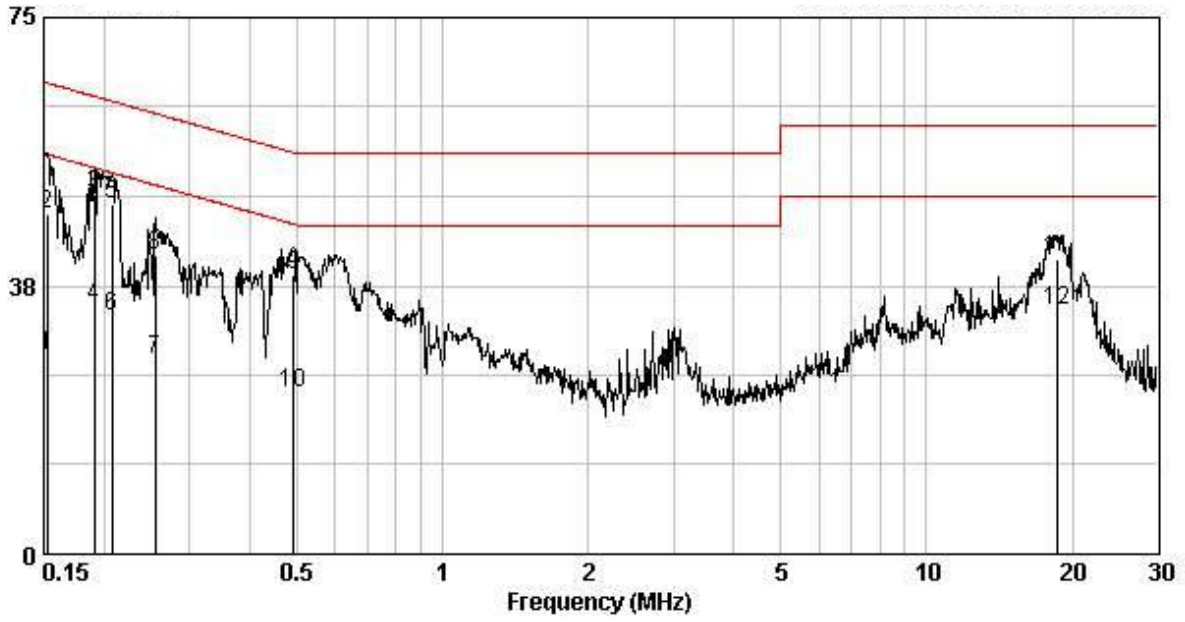
*Decreases with the logarithm of the frequency.

9.5 Power Line Conducted Emission test data

Phase: Line
Model No.: 001
Operating mode: Adapter mode

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level Av (dBuV)	Limit Av (dBuV)	Margin (dB) Qp	Margin (dB) Av
0.152	0.13	47.42	65.87	27.68	55.87	-18.45	-28.19
0.190	0.13	50.22	64.02	34.71	54.02	-13.79	-19.30
0.207	0.14	48.96	63.32	33.32	53.32	-14.36	-20.00
0.255	0.14	41.87	61.60	27.15	51.60	-19.72	-24.44
0.491	0.17	38.88	56.14	22.62	46.14	-17.26	-23.52
18.622	1.10	41.11	60.00	34.08	50.00	-18.89	-15.92

Remark:
1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)



Phase: Neutral
Model No.: 001
Operating mode: Adapter mode

Frequency (MHz)	Corr. Factor (dB)	Level Qp (dBuV)	Limit Qp (dBuV)	Level Av (dBuV)	Limit Av (dBuV)	Margin (dB) Qp	Margin (dB) Av
0.152	0.10	47.03	65.87	27.86	55.87	-18.84	-28.01
0.188	0.10	49.59	64.11	32.98	54.11	-14.51	-21.12
0.207	0.11	48.93	63.32	33.75	53.32	-14.39	-19.57
0.253	0.11	41.95	61.64	26.23	51.64	-19.69	-25.41
0.510	0.13	38.13	56.00	25.47	46.00	-17.87	-20.53
18.328	0.86	41.63	60.00	34.13	50.00	-18.37	-15.87

Remark:
1. Corr. Factor (dB)= LISN Factor (dB) + Cable Loss (dB)
2. Margin (dB) = Level (dBuV) – Limit (dBuV)