FCC - TEST REPORT

Report Number	: **68.950.18.0321.01**	Date of Issue:	August 03, 2018
Model	: G1008E-2, G5300E-2, EE3612		
Product Type	: WIRELESS MOUSE		
Applicant	: Shenzhen Loyal Electronics Co., Ltd.		
Address	: No.5 The First Industrial Area of Shanmen, Songgang, Baoan, Shenzhen,China		
Production Facility	: Shenzhen Loyal Electronics Co., Ltd.		
Address	: No.5 The First Industrial Area of Shanmen, Songgang, Baoan, Shenzhen,China		
Test Result	: ■ **Positive** ☐ **Negative**		
Total pages including Appendices	: 36		

1 Table of Contents

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Building 12 & 13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2,
Nanshan District, Shenzhen 518052, P.R. China

2 Details about the Test Laboratory

Details about the Test Laboratory

Company name:	TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Building 12 & 13, Zhiheng Wisdomland Business Park, Nantou Checkpoint Road 2, Nanshan District Shenzhen 518052 P.R. China
Telephone:	86 755 8828 6998
Fax:	86 755 8828 5299
FCC Registration No.:	514049

3 Description of the Equipment Under Test

Product:	WIRELESS MOUSE
Model no.:	G1008E-2,G5300E-2,EE3612
FCC ID:	2AAVD-G5300-1008
Options and accessories:	N/A
Rating:	DC 1.5V 100mA
RF Transmission Frequency:	2408MHz-2474MHz
No. of Operated Channel:	34
Modulation:	FSK
Antenna Type:	Integrated antenna
Antenna Gain:	-0.61dBi
Description of the EUT:	The Equipment Under Test (EUT) is WIRELESS MOUSE with led Light operated at 2.4GHz

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4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2017 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 15.247 Meas Guidance v05 and ANSI C63.10 (2013).

5 Summary of Test Results

Technical Requirements			
FCC Part 15 Subpart C			
Test Condition		Pages	Test Result
§15.207	Conducted emission AC power port	--	N/A
§15.247(b)(1)	Conducted peak output power	10	Pass
§15.247(e)	Power spectral density	--	N/A
§15.247(a)(2)	6dB bandwidth	--	N/A
§15.247(a)(1)	20dB bandwidth and 99% Occupied Bandwidth	13	Pass
§15.247(a)(1)	Min. of Hopping Channel Carrier Frequency Separation	16	Pass
§15.247(a)(1)(iii)	Min number of hopping frequencies	18	Pass
§15.247(a)(1)(iii)	Dwell Time - Average Time of Occupancy	20	Pass
§15.247(d)	Spurious RF conducted emissions	22	Pass
§15.247(d)	Band edge	26	Pass
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter and receiver	28	Pass
§15.203	Antenna requirement	See note 2	Pass

Note 1: N/A=Not Applicable.
Note 2: The EUT uses an Integrated antenna, which gain is -0.61dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AAVD-G5300-1008, complies with Section 15.209, 15.205, 15.247 of the FCC Part 15, Subpart C.

G1008E-2, G5300E-2, EE3612 is a WIRELESS MOUSE with 2.4GHz. The TX and RX range is 2408MHz-2474MHz.

G1008E-2 and EE3612 are identical with G5300E-2 except model name and appearance, unless otherwise specified, the G5300E-2 was chosen as the representative model to perform full tests, and G1008E-2 and EE3612 were deemed to fulfil relevant RF requirements without further testing.

This is Report for FSK only.

SUMMARY:

All tests according to the regulations cited on page 5 were

■ - Performed

☐ - **Not** Performed

The Equipment Under Test

■ - **Fulfills** the general approval requirements.

☐ - **Does not** fulfill the general approval requirements.

Sample Received Date:	April 14, 2018
Testing Start Date:	April 18, 2018
Testing End Date:	June 28, 2018

Reviewed by:	Prepared by:	Tested by:
Phoebe Hu	Vincent zheng	Louise Liu
EMC Section Manager	EMC Project Engineer	EMC Test Engineer

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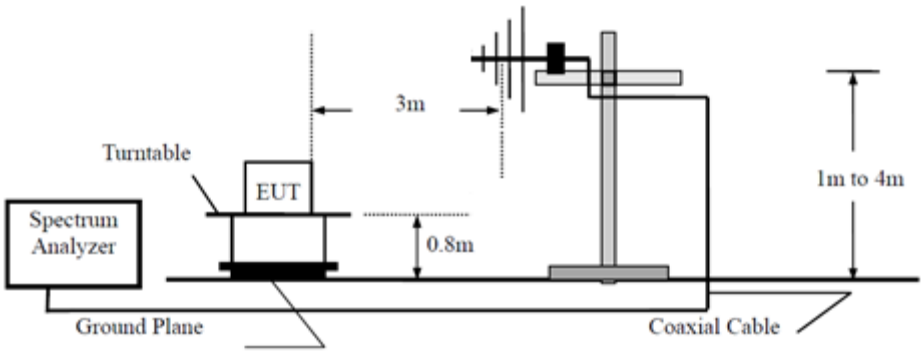
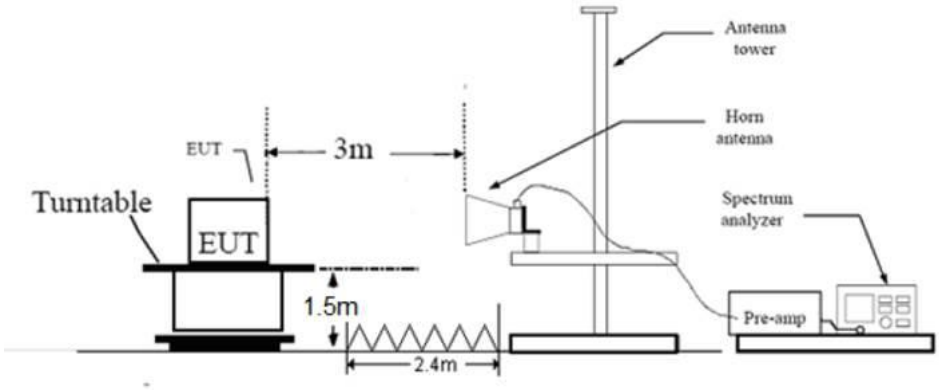
7 Test Setups

7.1 Radiated test setups

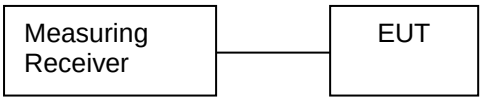
Below 1GHz



Above 1GHz



7.2 Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
/	/	/	---

Test software: N/A

The system was configured to hopping mode and non-hopping mode.

Hopping mode: typical working mode (normal hopping status)

Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power

9 Technical Requirement

9.1 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
   Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
   RBW > the 20 dB bandwidth of the emission being measured, VBW≥RBW,
   Sweep = auto, Detector function = peak, Trace = max hold
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power

Limits

Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	≤0.125	≤21

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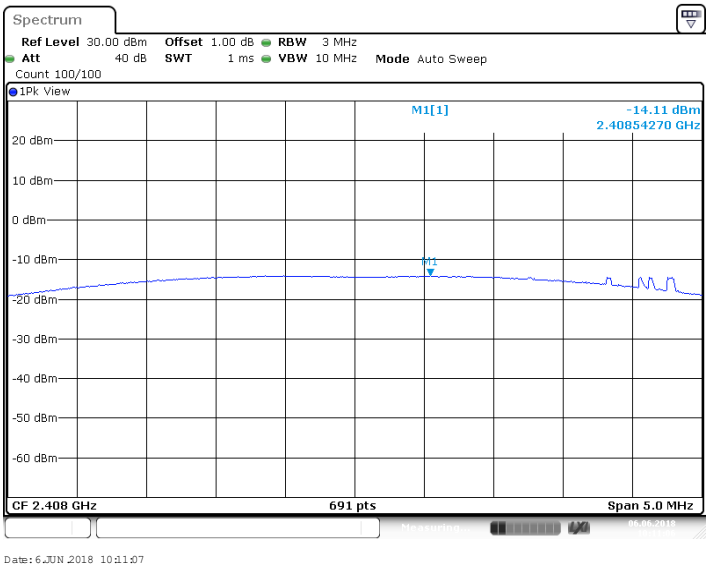
Conducted peak output power

2.4GHz Radio Mode FSK modulation Test Result

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2408MHz	-14.11	Pass
Middle channel 2440MHz	-13.46	Pass
High channel 2474MHz	-13.30	Pass

Low channel 2408MHz



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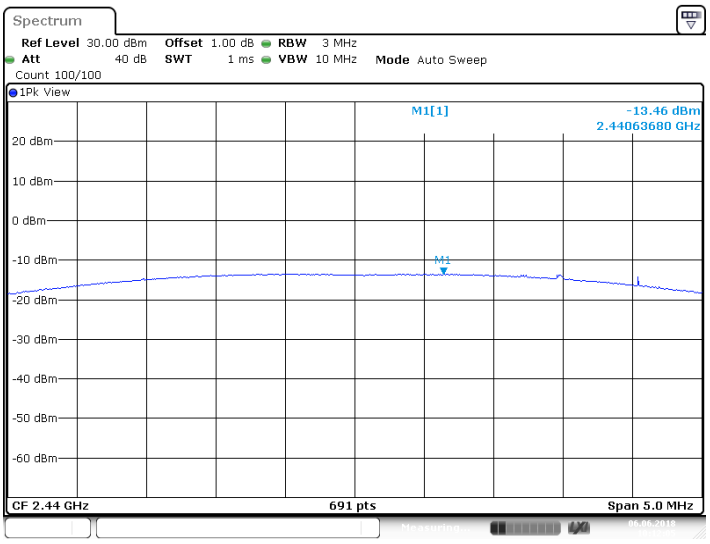
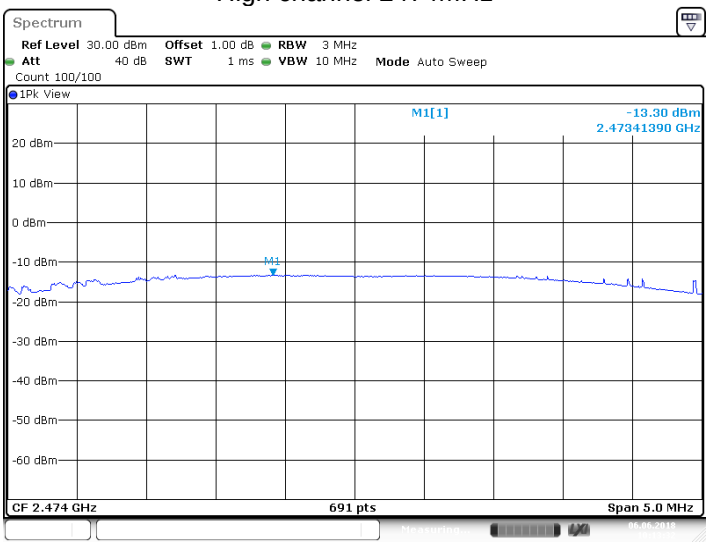
Middle channel 2440MHz



High channel 2474MHz



9.2 20 dB bandwidth and 99% Occupied Bandwidth

Test Method

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
4. Repeat above procedures until all frequencies measured were complete.

Limit

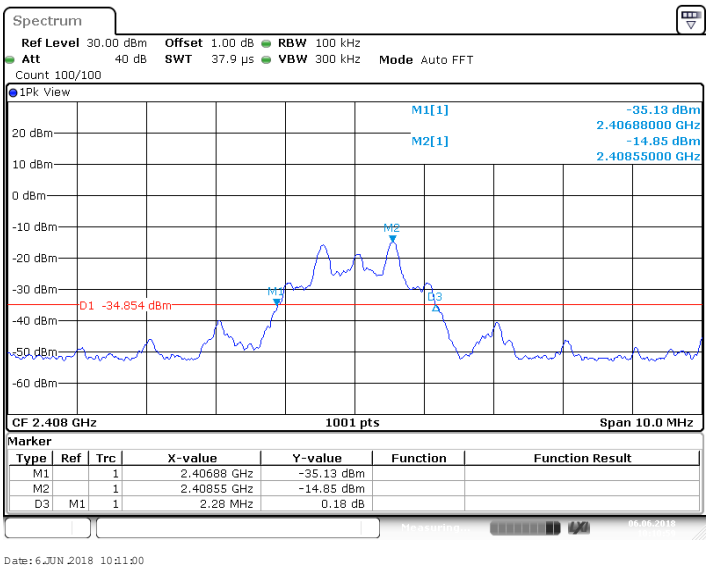
Limit [kHz]
N/A

20 dB bandwidth and 99% Occupied Bandwidth

2.4GHz radio Mode FSK Modulation test result

Frequency MHz	20 dB Bandwidth kHz	99% Bandwidth kHz	Limit kHz	Result
2408	2280	3548	--	Pass
2440	2310	2350	--	Pass
2474	2650	2841	--	Pass

Low channel 2408MHz



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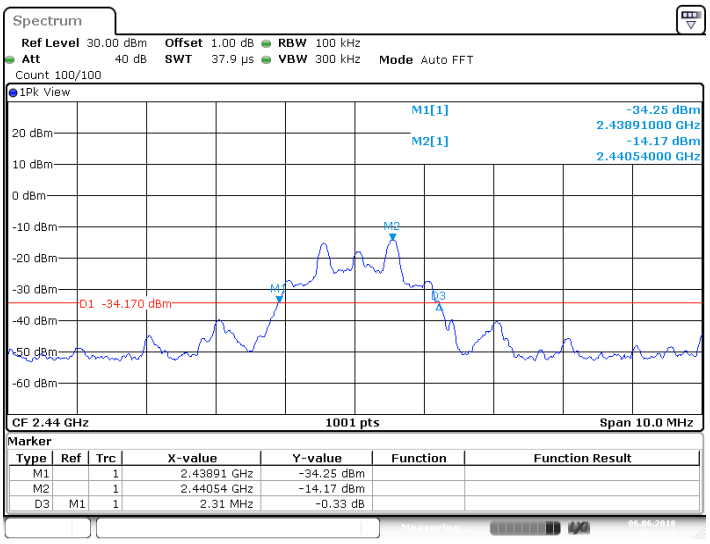
Middle channel 2440MHz



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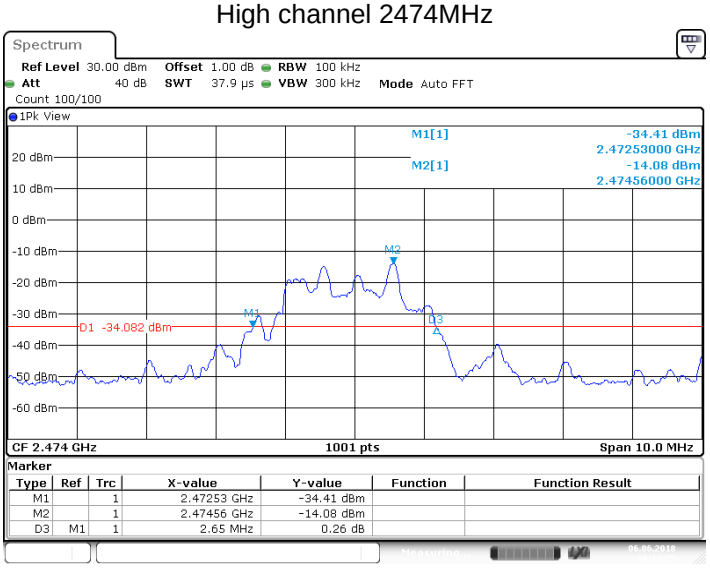
High channel 2474MHz



Date: 6.JUN.2018 10:13:25

9.3 Carrier Frequency Separation

Test Method

1. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
2. By using the Max-Hold function record the separation of two adjacent channels.
3. Measure the frequency difference of these two adjacent channels by spectrum analyzer marker function.
4. Repeat above procedures until all frequencies measured were complete.

Limit

Limit kHz
≥25KHz or 2/3 of the 20 dB bandwidth which is greater

FSK Modulation Limit

Frequency MHz	2/3 of 20 dB Bandwidth kHz
2408	1520.00
2440	1540.00
2474	1766.67

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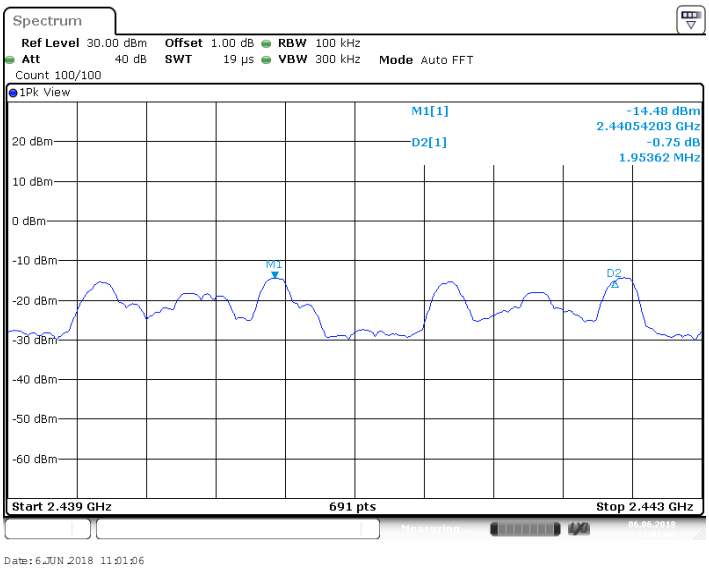
Carrier Frequency Separation

Test result: The measurement was performed with the typical configuration (normal hopping status), here FSK modulation mode was used to show compliance.

FSK Modulation test result

Frequency MHz	Carrier Frequency Separation kHz	Result
2440	1954.0	Pass

Low channel 2440MHz



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9.4 Number of hopping frequencies

Test Method

1. Use the following spectrum analyzer settings:
   Span = wide enough to capture the peaks of two adjacent channels, RBW ≥ 1% of the span, VBW) ≥RBW, Sweep = auto, Detector function = peak
2. Set the spectrum analyzer on Max-Hold Mode, and then keep the EUT in hopping mode.
3. Record all the signals from each channel until each one has been recorded.
4. Repeat above procedures until all frequencies measured were complete.

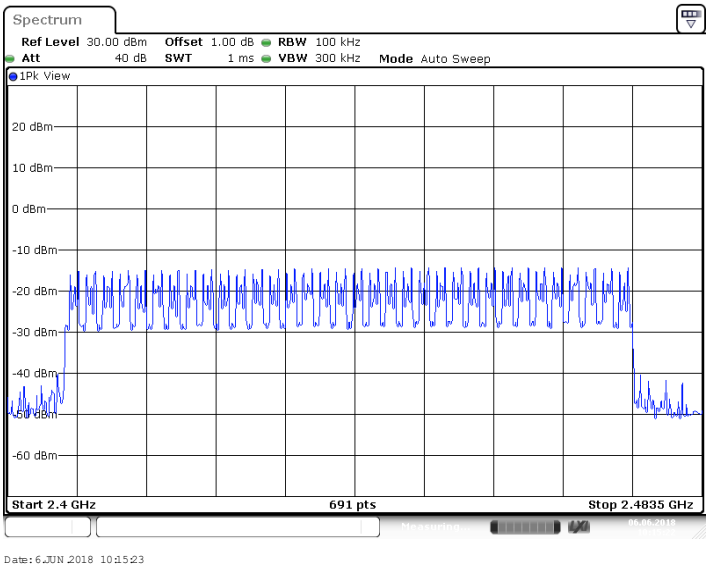
Limit

Limit number
≥ 15

Number of hopping frequencies

Test result: The measurement was performed with the typical configuration (normal hopping status), and the total hopping channels is constant for the all modulation mode according with the 2.4GHz Radio Core Specification. Here FSK modulation mode was used to show compliance.

Number of hopping frequencies	Result
34	Pass



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9.5 Dwell Time

Test Method

1. Connect EUT antenna terminal to the spectrum analyzer with a low loss cable. Equipment mode: Spectrum analyzer
2. RBW: 1MHz; VBW: 1MHz; SPAN: Zero Span
3. Adjust the center frequency of spectrum analyzer on any frequency be measured.
4. Measure the Dwell Time by spectrum analyzer Marker function.
5. Repeat above procedures until all frequencies measured were complete.

Limit

The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Dwell Time

Dwell time

The maximum dwell time shall be 0.4 s.
According to the 2.4GHz Radio Core Specification, the worse result (DH5 mode) was reported to show compliance.

The Dwell Time = Burst Width * Total Hops. The detailed calculations are showed as follows:
The duration for dwell time calculation: 0.4 [s] * hopping number = 0.4 [s] * 34 [ch] = 13.6 [s*ch];

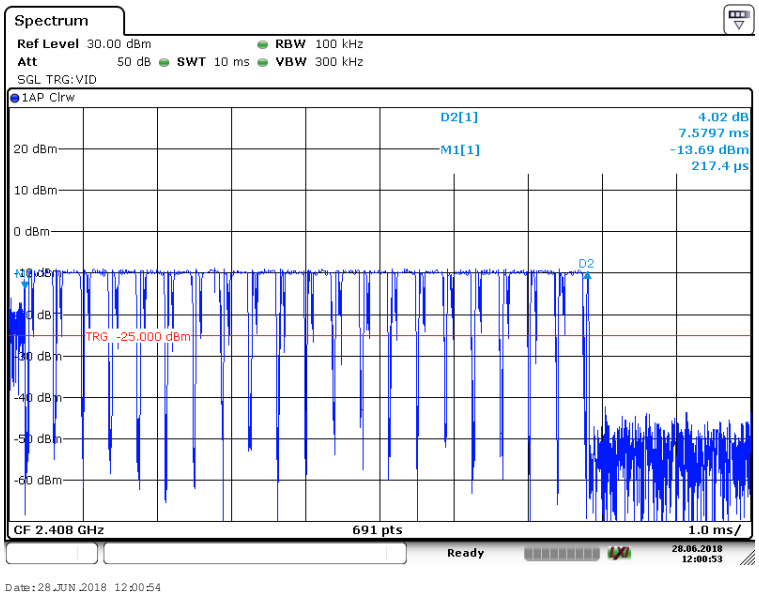
The burst width, which is directly measured, refers to the duration on one channel hop.

The maximum number of hopping channels in 31.6s for 2.4G=13.6/5*10=27.2

Test Result

Modulation	Reading (us)	Total Hops	Test Result (ms)	Limit (s)	Result
FSK	7579.7	27.2	206.15	< 13.6	Pass

FSK Modulation



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9.6 Spurious RF conducted emissions

Test Method

1. 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. Typically, several plots are required to cover this entire span.
   RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded.
3. The level displayed must comply with the limit specified in this Section. Submit these plots.
4. Repeat above procedures until all frequencies measured were complete.

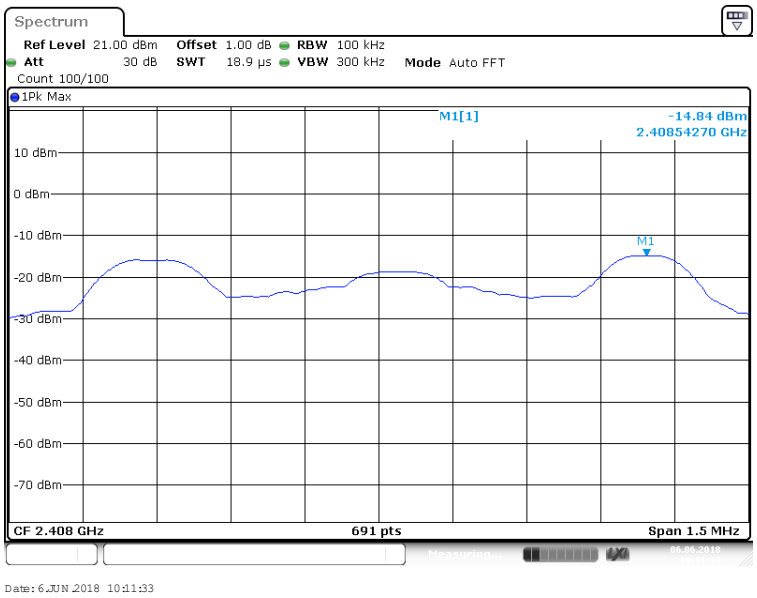
Limit

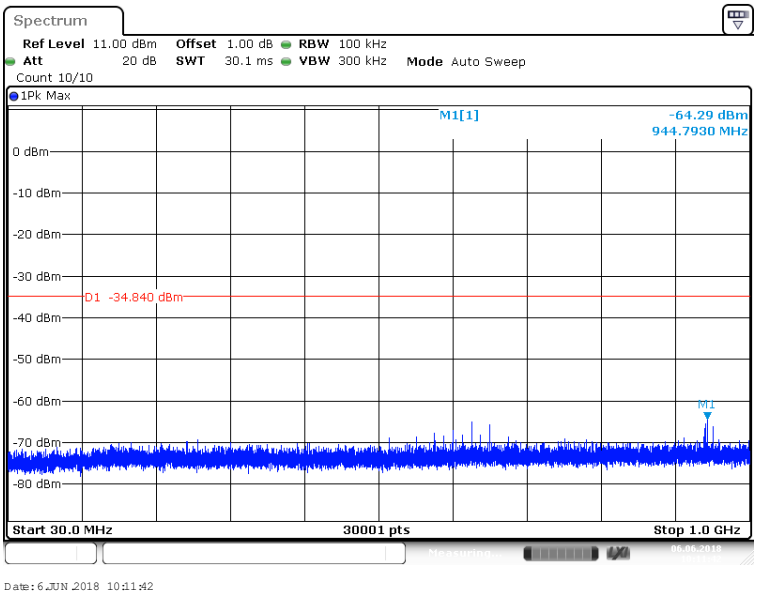
Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

Only the worst case (which is subject to the maximum EIRP, FSK mode) test result is listed in the report.
FSK Modulation:

Low channel 2408MHz





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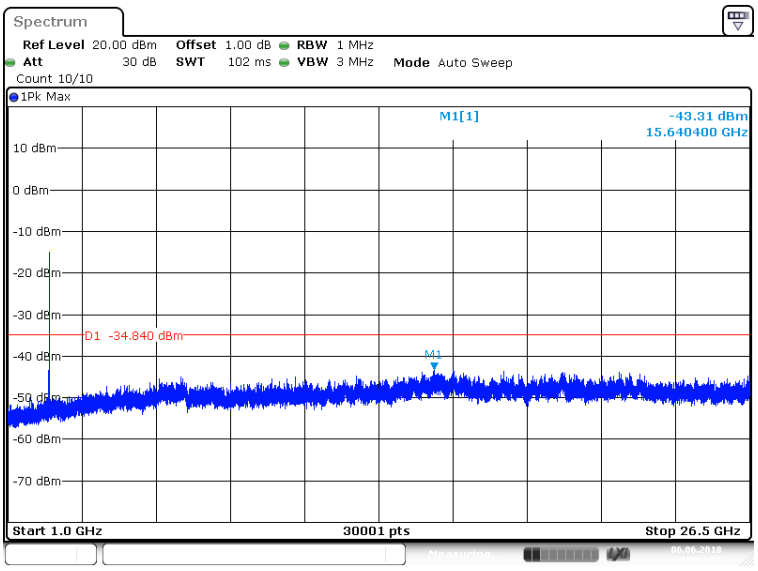
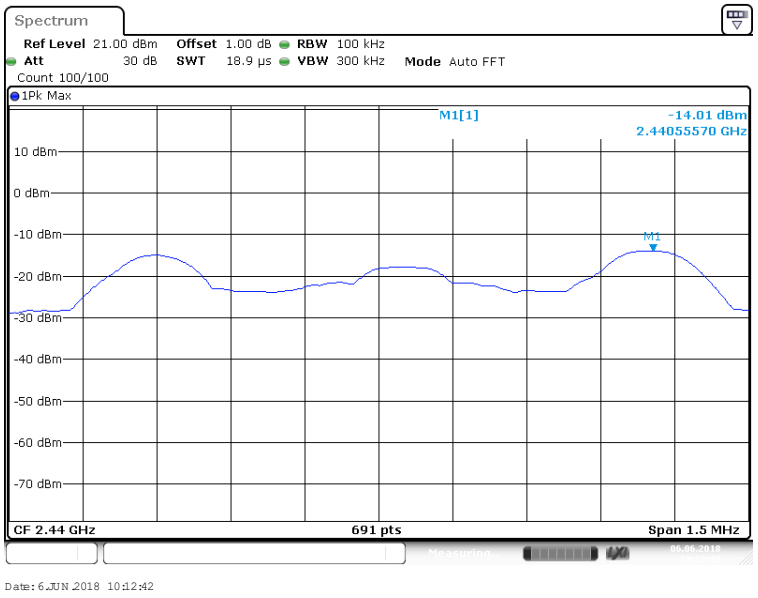
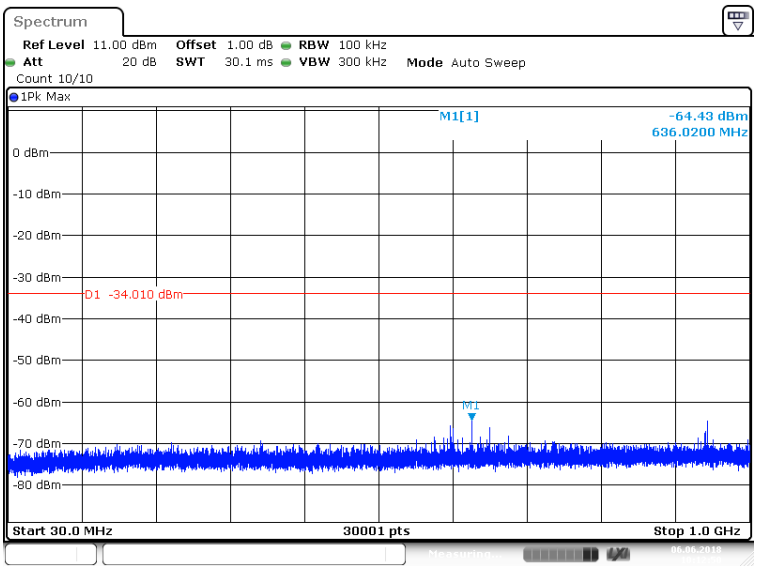
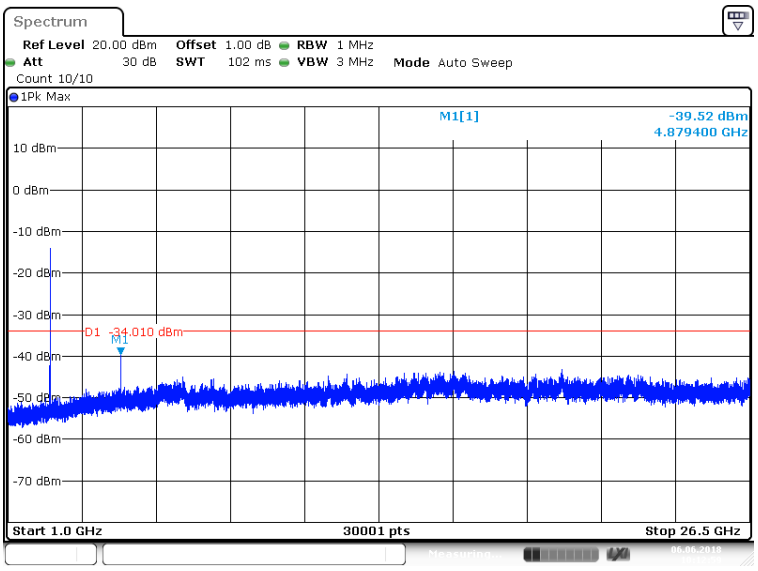


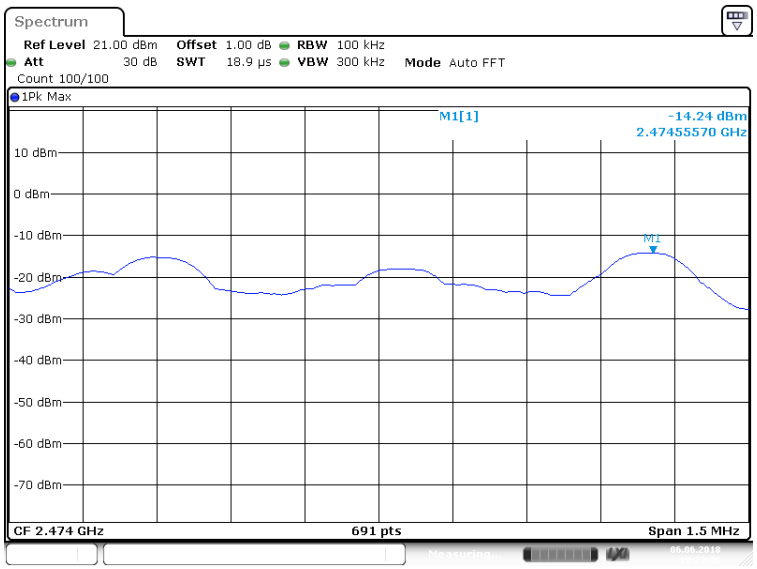
Middle channel 2440MHz

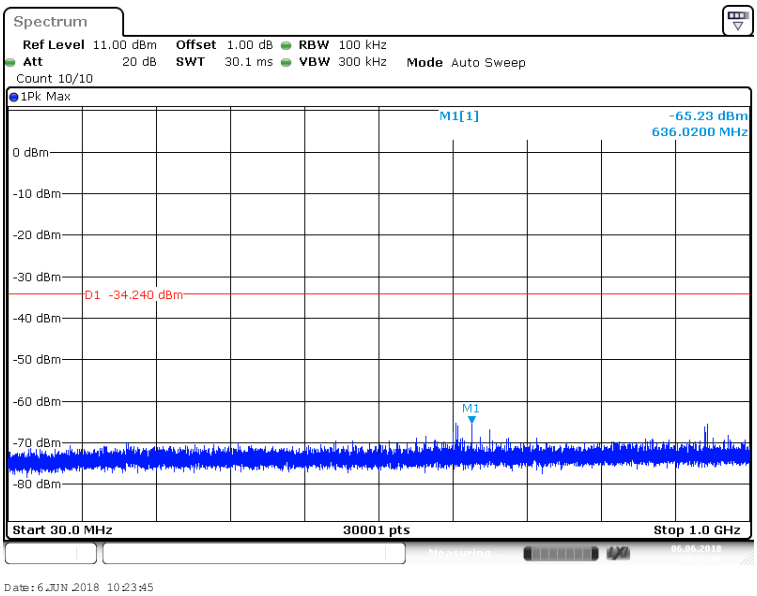


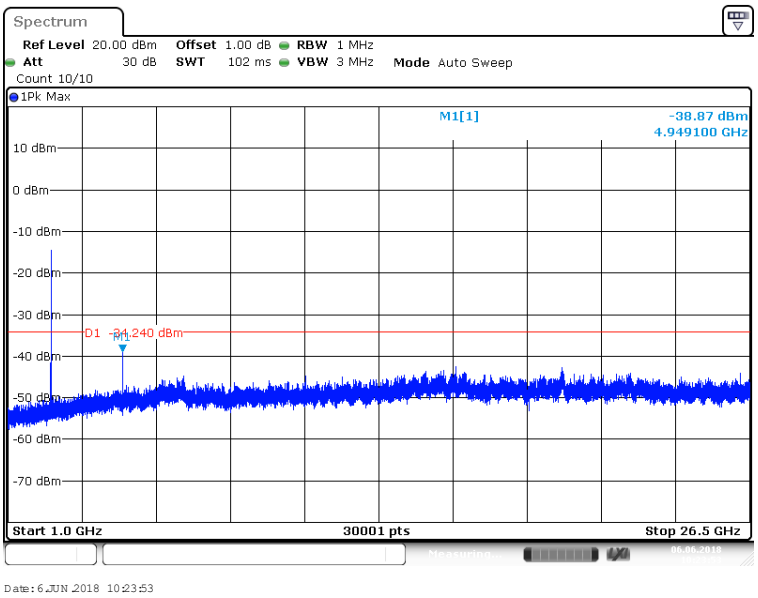

Spectrum
Ref Level 11.00 dBm Offset 1.00 dB RBW 100 kHz
Att 20 dB SWT 30.1 ms VBW 300 kHz Mode Auto Sweep
Count 10/10
1Pk Max
M1[1] -64.43 dBm
636.0200 MHz
0 dBm
-10 dBm
-20 dBm
-30 dBm
D1 -34.010 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
-80 dBm
Start 30.0 MHz 30001 pts Stop 1.0 GHz
Date: 6.JUN.2018 10:12:50


Spectrum
Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz
Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep
Count 10/10
1Pk Max
M1[1] -39.52 dBm
4.879400 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
D1 -34.010 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
Start 1.0 GHz 30001 pts Stop 26.5 GHz
Date: 6.JUN.2018 10:12:59

High channel 2474MHz






Spectrum
Ref Level 20.00 dBm Offset 1.00 dB RBW 1 MHz
Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep
Count 10/10
1Pk Max
M1[1]
-38.87 dBm
4.949100 GHz
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
D1 -24.240 dBm
-40 dBm
-50 dBm
-60 dBm
-70 dBm
Start 1.0 GHz
30001 pts
Stop 26.5 GHz
Date: 6.JUN.2018 10:23:53

9.7 Band edge testing

Test Method

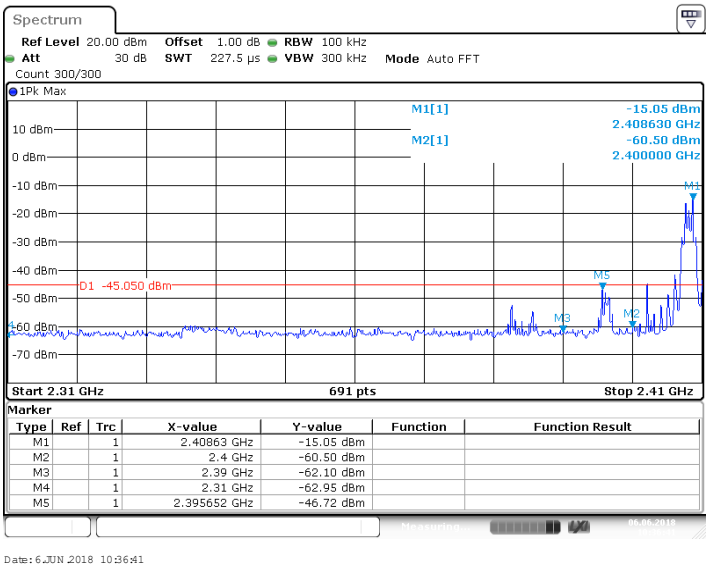
1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW≥RBW, Sweep = auto, Detector function = peak, Trace = max hold
2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
3 The level displayed must comply with the limit specified in this Section. .
4 Repeat the test at the hopping off and hopping on mode, submit all the plots.

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the100 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 that the transmitter demonstrates compliance with the peak conducted power limits.

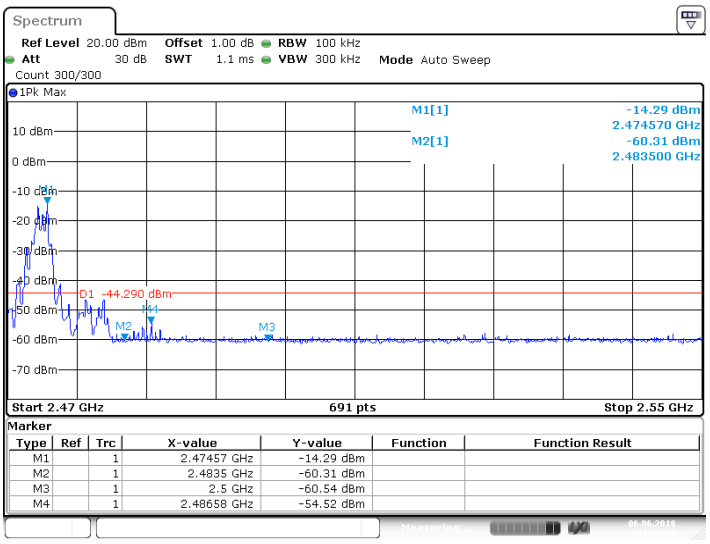
FSK mode:

Hopping Off
2408MHz



Date: 6.JUN.2018 10:36:41

2474MHz



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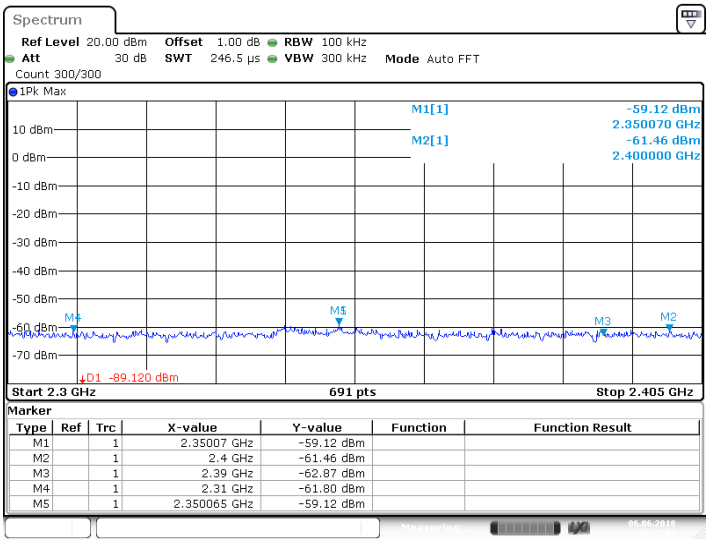
Hopping On



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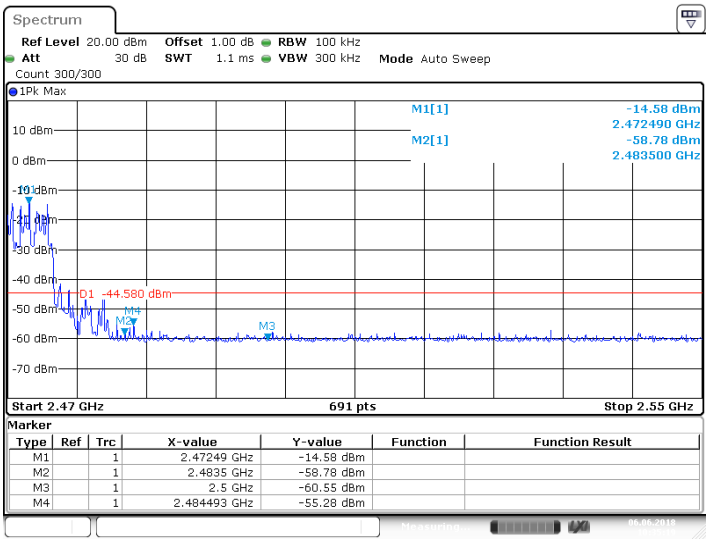

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9.8 Spurious radiated emissions for transmitter

Test Method

1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.

3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

5: Use the following spectrum analyzer settings According to C63.10:

For Above 1GHz

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 1MHz, VBW≥RBW for peak measurement and VBW = 10Hz for average measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious RBW = 100 KHz, VBW≥RBW for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

Note:

1: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Quasi-peak detection (QP) at frequency below 1GHz.

2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for peak detection (PK) at frequency above 1GHz.

3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average ((duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor (20log(1/duty cycle)).

4: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (duty cycle > 98%) for Average detection (AV) at frequency above 1GHz.

Limit

The radio emission outside the operating frequency band 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. Radiated emissions which fall in the restricted bands, as defined in section15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dBµV/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Spurious radiated emissions for transmitter

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

FSK Modulation 2408MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor	Result
	MHz	dBuV/m		dBμV/m		dBuV/m	(dB)	
30-1000MHz	61.04	16.48	H	40	PK	23.52	-27.5	Pass
	61.04	20.48	V	40	PK	19.82	-27.5	Pass
1000-25000MHz	4816.86*	54.68	H	74	PK	19.32	2.5	Pass
	7001.25*	39.39	H	74	PK	34.61	5.6	Pass
	4815.47*	43.30	V	74	PK	30.70	2.6	Pass
	7435.78*	38.40	V	74	PK	35.60	5.8	Pass

FSK Modulation 2440MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor	Result
	MHz	dBuV/m		dBμV/m		dBuV/m	(dB)	
30-1000MHz	--	--	H	43.5	PK	--	--	Pass
	--	--	H	46	PK	--	--	Pass
1000-25000MHz	4879.21*	47.44	H	74	PK	26.56	2.5	Pass
	7019.06*	38.08	H	74	PK	35.92	5.8	Pass
	4881.09*	41.69	V	74	PK	32.31	2.6	Pass
	7005.94*	39.68	V	54	PK	34.32	5.8	Pass

FSK Modulation 2474MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Correct factor	Result
	MHz	dBuV/m		dBµV/m		dBuV/m	(dB)	
30-1000MHz	--	--	H	43.5	PK	--	--	Pass
	--	--	H	46	PK	--	--	Pass
1000-25000MHz	4959.84*	52.90	H	74	PK	21.10	2.7	Pass
	7488.28*	40.44	H	74	PK	33.56	6.6	Pass
	4959.84*	52.64	V	74	PK	21.36	2.8	Pass
	7482.18*	40.15	V	74	PK	33.85	6.7	Pass

Remark:

(1) "*" means the emission(s) appear within the restrict bands shall follow the requirement of section 15.205.

(2) Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are the noise floor or attenuated more than 10dB below the permissible limits or the field strength is too small to be measured.

(3) Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
Below 1GHz: Corrector factor = Antenna Factor + Cable Loss

10 Test Equipment List

List of Test Instruments

Radiated Emission Test

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2019-7-6
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2019-7-14
Horn Antenna	Rohde & Schwarz	HF907	102294	2019-7-14
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2019-7-6
Signal Generator	Rohde & Schwarz	SMY01	839369/005	2019-7-6
Attenuator	Agilent	8491A	MY39264334	2019-7-6
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

TS8997 Test System

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Generator	Rohde & Schwarz	SMB100A	108272	2019-7-6
Vector Signal Generator	Rohde & Schwarz	SMBV100A	262825	2019-7-6
Communication Synthetical Test Instrument	Rohde & Schwarz	CMW 270	101251	2019-5-31
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2019-7-6
Vector Signal Generator	Rohde & Schwarz	SMU 200A	105324	2019-7-6
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2019-7-6
Power Splitter	Weinschel	1580	SC319	2019-7-5
10dB Attenuator	Weinschel	4M-10	43152	2019-7-6
10dB Attenuator	R&S	DNF	DNF-001	2019-7-6
10dB Attenuator	R&S	DNF	DNF-002	2019-7-6
10dB Attenuator	R&S	DNF	DNF-003	2019-7-6
10dB Attenuator	R&S	DNF	DNF-004	2019-7-6
Test software	Rohde & Schwarz	EMC32	Version 10.38.00	N/A
Test software	Tonscend	System for BT/WIFI	Version 2.6	N/A

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-18000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 5.05dB; Vertical: 5.04dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.16dB Frequency test involved: 0.6×10-7 or 1%