

FCC - TEST REPORT

Report Number	: 68.950.16.625	.01 Dat	te of Issue:	December 07, 2016	
Model	: CT4				
Product Type	: Tablet PC				
Applicant	: Olive Oil Com	puter Limited			
Address	: Level 15, Lang	ham Place, 8 A	rgyle Street,	Mongkok, Kowloon,	
_	Hong Kong.				
Production Facility	: Welco Wong's	Technology (Sh	henZhen) Lin	nited	
Address	: 2-3 floor of block 14, 1-4 floor of block 17, 1-3 floor of block 34, No.2				
	of WanFeng WanZhangPu Industrial Estate, ShaJing Bao'an,				
	ShenZhen, China				
Test Result	: Positive	☐ Negative			
Total pages including Appendices	: 46				

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

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: 86 755 828 5299

FCC Registration

Number:

IC Registration

10320A-1

502708

Number:



3 Description of the Equipment Under Test

Product: Tablet PC

Model no.: CT4

FCC ID: 2AKHP-CT4-US

Options and accessories: Nil

Rating: 3.8VDC, 3700mAh

(Supplied by Li-ion rechargeable battery) 5.0VDC, 2.0A (Charging by external adapter)

Adapter Model: MU10-Q050200-A2 Input: 100-240VAC, 50/60Hz, 0.3A

Output: 5.0VDC, 2.0A

RF Transmission

sion 2402MHz-2480MHz

Frequency:

No. of Operated Channel: 79

Modulation: GFSK, $\pi/4$ -DQPSK, 8-DPSK

Antenna Type: Integrated antenna

Antenna Gain: -2.0dBi

Description of the EUT: The Equipment Under Test (EUT) is a Tablet PC operated at 2.4GHz



4 Summary of Test Standards

	Test Standards
FCC Part 15 Subpart C	PART 15 - RADIO FREQUENCY DEVICES
10-1-2015 Edition	Subpart C - Intentional Radiators

All the test methods were according to Public Notice DA 00-705 -Frequency Hopper Spread Spectrum Test Procedure released by FCC on March 30, 2000 and ANSI C63.10-2013.



5 Summary of Test Results

	Technical Requirement	ts		
FCC Part 15 Sub	part C/RSS-247 Issue 1/RSS-Gen Issue	4		
Test Condition		Pages	Test Result	Test Site
§15.207	Conducted emission AC power port	10	Pass	Site 1
§15.247(b)(1)	Conducted peak output power	13	Pass	Site 1
§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	20	Pass	Site 1
§15.247(a)(1)	Carrier frequency separation	27	Pass	Site 1
§15.247(a)(1)(iii)	Number of hopping frequencies	30	Pass	Site 1
§15.247(a)(1)(iii)	Dwell Time	32	Pass	Site 1
§15.247(d)	Spurious RF conducted emissions	35	Pass	Site 1
§15.247(d)	Band edge	39	Pass	Site 1
§15.247(d) & §15.209 &	Spurious radiated emissions for transmitter and receiver	41	Pass	Site 1
§15.203	Antenna requirement	See note 1	Pass	

Note 1: N/A=Not Applicable.

Note 2: The EUT uses an Integrated antenna, which gain is -2.0dBi. 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: 2AKHP-CT4-US complies with Section 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C.

This report is for the BT 3.0 part.

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

Sample Received Date: November 01, 2016

Testing Start Date: November 01, 2016

Testing End Date: November 27, 2016

- TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch -

Reviewed by:

Prepared by:

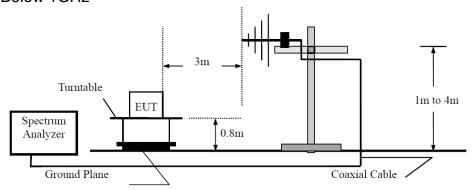
Tested by:

Phoebe Hu EMC Project Manager Aaron Lai EMC Project Engineer Leon Zhang EMC Test Engineer

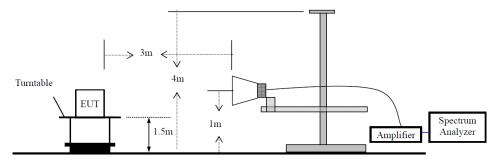


7 Test Setups

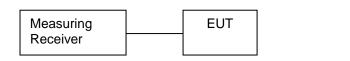
7.1 Radiated test setups Below 1GHz



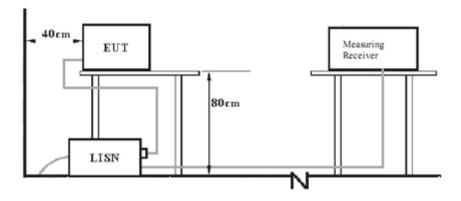
Above 1GHz



7.2 Conducted RF test setups



7.3 AC Power Line Conducted Emission test setups





8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
PC	lenovo	X220	

Test software: RF test tool, which used to control the EUT in continues transmitting mode

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 Emission

Test Method

- 1. The EUT was placed on a table, which is 0.8m above ground plane
- 2. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.).
- 3. Maximum procedure was performed to ensure EUT compliance
- 4. A EMI test receiver is used to test the emissions from both sides of AC line

Limit

Frequency	QP Limit	AV Limit
MHz	dΒμV	dΒμV
0.150-0.500	66-56*	56-46*
0.500-5	56	46
5-30	60	50

Decreasing linea



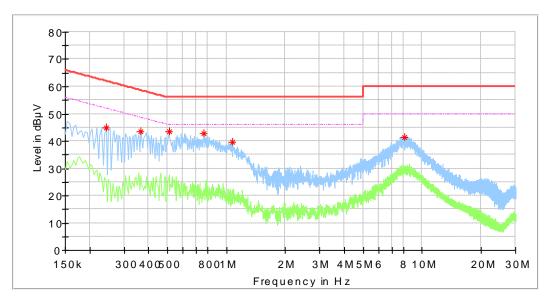
Conducted Emission

Product Type : Tablet PC M/N : CT4

Operating Condition : Charging & TX

Test Specification : Live

Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.242000	45.08		62.03	16.95	L1	9.7
0.366000	43.34		58.59	15.26	L1	9.7
0.510000	43.59		56.00	12.41	L1	9.7
0.770000	42.69		56.00	13.31	L1	9.7
1.074000	39.48		56.00	16.52	L1	9.7
8.106000	41.29		60.00	18.71	L1	10.0



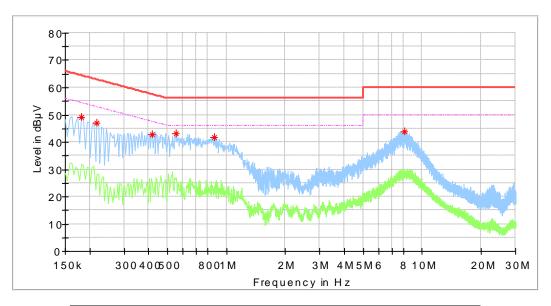
Conducted Emission

Product Type : Tablet PC M/N : CT4

Operating Condition : Charging & TX

Test Specification : Neutral

Comment : AC 120V/60Hz



Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.182000	49.27		64.39	15.13	N	9.6
0.218000	46.91		62.89	15.98	N	9.6
0.418000	42.72		57.49	14.77	N	9.7
0.554000	43.22		56.00	12.78	N	9.7
0.866000	41.86		56.00	14.14	N	9.7
8.110000	43.89		60.00	16.11	N	10.0



9.2 Conducted peak output power

Test Method

- 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

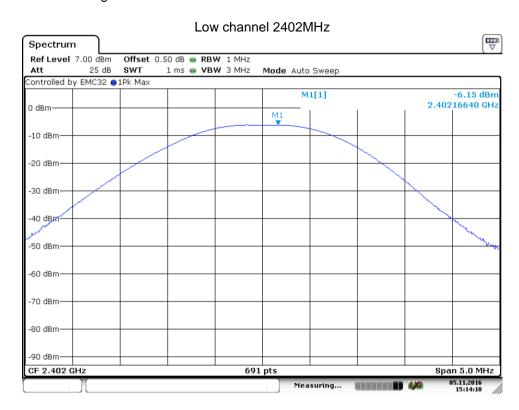
Frequency Range	Limit	Limit
MHz	W	dBm
2400-2483.5	≤1	≤30



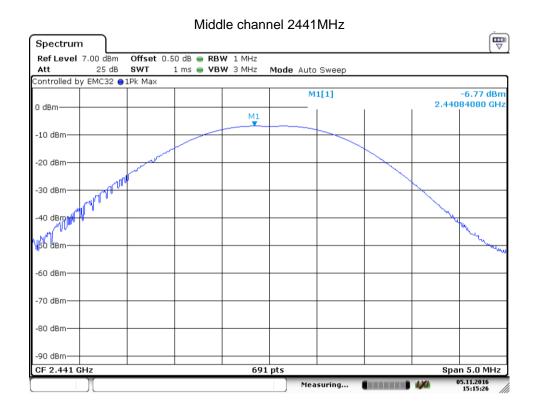
Conducted peak output power

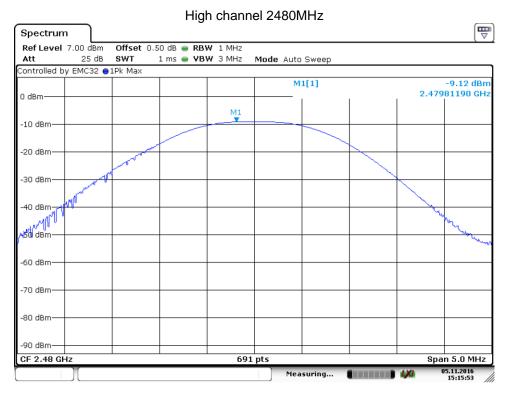
Bluetooth Mode GFSK modulation Test Result

Frequency MHz	Output Power dBm	Result
Low channel 2402MHz	-6.15	Pass
Middle channel 2441MHz	-6.77	Pass
High channel 2480MHz	-9.12	Pass







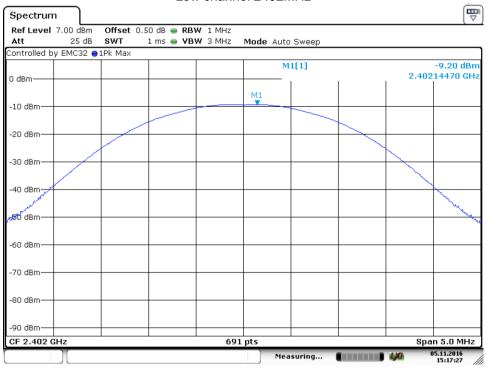




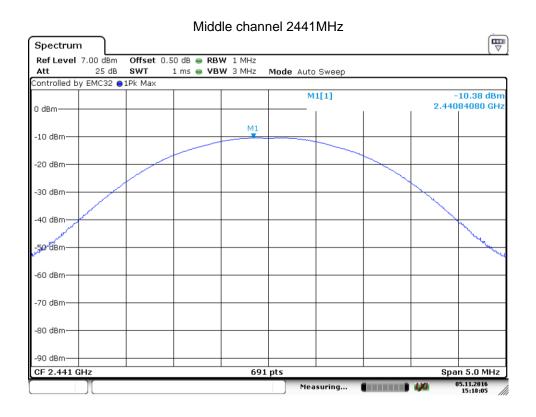
Bluetooth Mode π/4-DQPSK modulation Test Result

Frequency Output Power Result MHz dBm Low channel 2402MHz -9.20 Pass Middle channel 2441MHz -10.38 Pass High channel 2480MHz -13.18 Pass

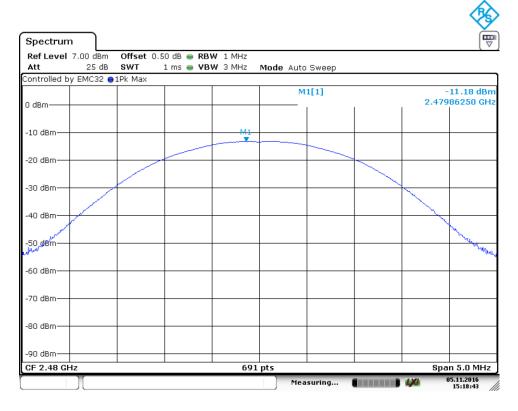
Low channel 2402MHz







High channel 2480MHz

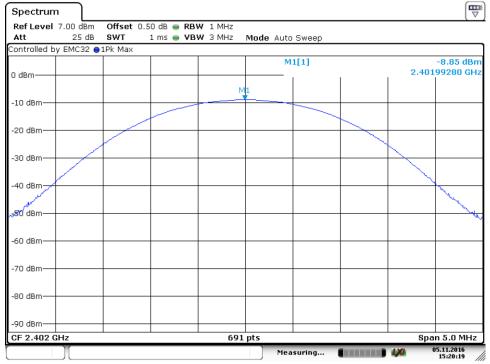




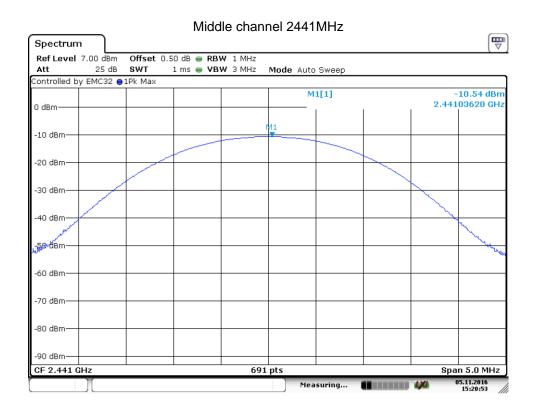
Bluetooth Mode 8DPSK modulation Test Result

Frequency Output Power Result MHz dBm Low channel 2402MHz -8.85 Pass Middle channel 2441MHz -10.54 Pass High channel 2480MHz -13.24 Pass

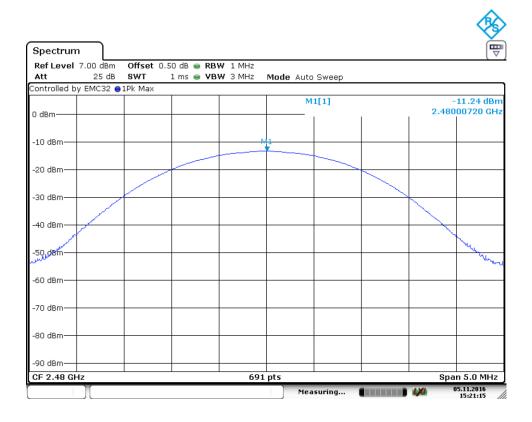








High channel 2480MHz





9.3 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 [kHz]	
N/A	

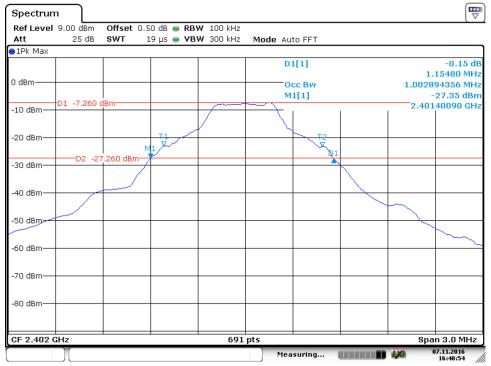


20 dB bandwidth and 99% Occupied Bandwidth

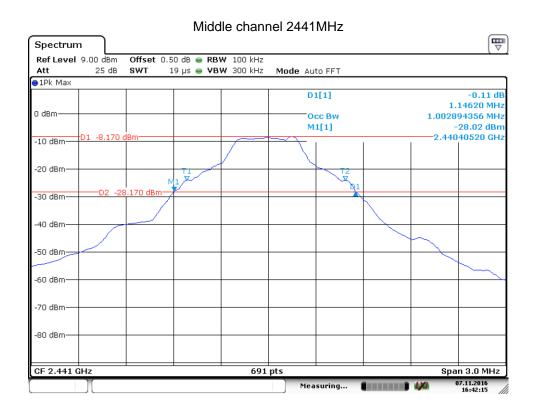
Bluetooth Mode GFSK Modulation test result

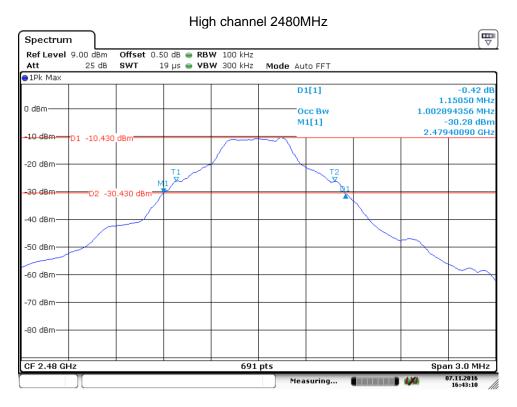
Frequency	20 dB Bandwidth	99% Bandwidth	Limit	Result
MHz	kHz	kHz	kHz	
2402	1154.80	1002.89		Pass
2441	1146.20	1002.89		Pass
2480	1150.50	1002.89		Pass

Low channel 2402MHz







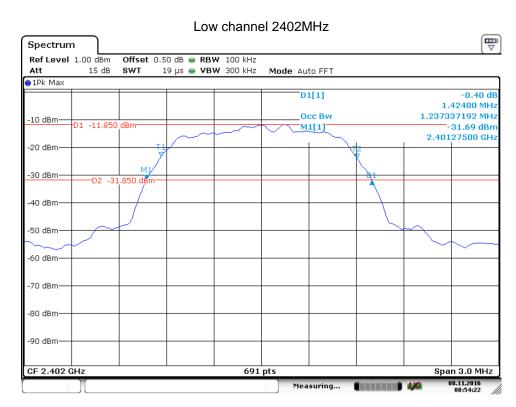




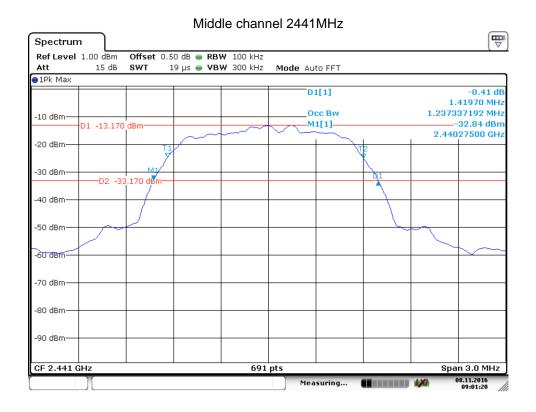
20 dB bandwidth and 99% Occupied Bandwidth

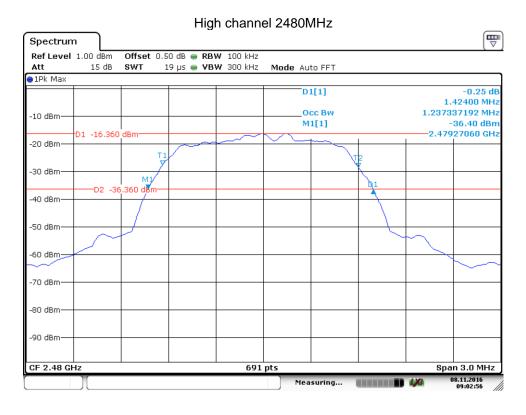
Bluetooth Mode π/4-DQPSK Modulation test result

Frequency	20 dB Bandwidth	99% Bandwidth	Limit	Result
MHz	kHz	kHz	kHz	
2402	1424.00	1237.33		Pass
2441	1419.70	1237.33		Pass
2480	1424.00	1237.33		Pass







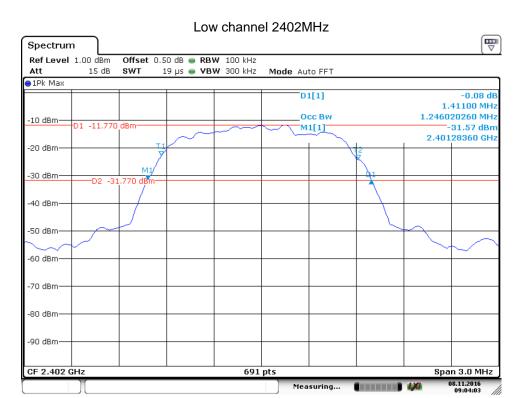




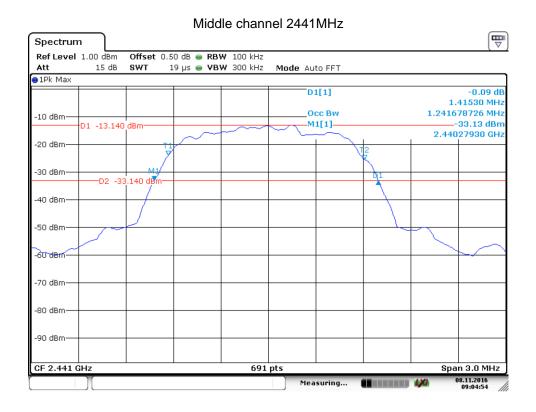
20 dB bandwidth and 99% Occupied Bandwidth

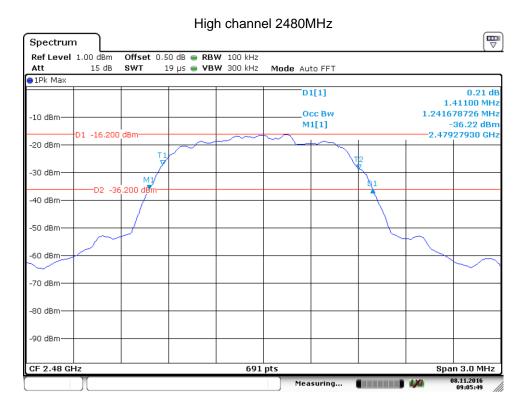
Bluetooth Mode 8DPSK Modulation test result

Frequency	20 dB Bandwidth	99% Bandwidth	Limit	Result
MHz	kHz	kHz	kHz	
2402	1411.00	1246.02		Pass
2441	1415.30	1241.67		Pass
2480	1411.00	1241.67		Pass











9.4 Carrier Frequency Separation

Test Method

- 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

GFSK Modulation Limit

Frequency	2/3 of 20 dB Bandwidth
MHz	kHz
2402	769.8667
2441	764.1333
2480	767.0000



Carrier Frequency Separation

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

GFSK Modulation test result

-80 dBm

-90 dBm

CF 2.403 GHz

Frequency	Carrier Frequency Separation	Result
MHz	kHz	
2402	997.50	Pass
2441	1002.9	Pass
2480	1002.9	Pass

Low channel 2402MHz

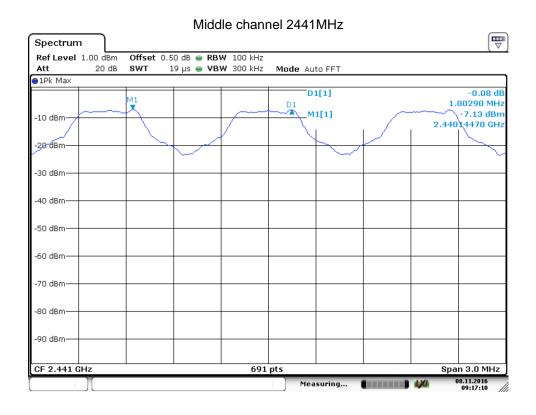
Spectrum Ref Level 1.00 dBm Offset 0.50 dB 🖷 RBW 100 kHz Att 20 dB SWT 19 μs 🎃 **VBW** 300 kHz Mode Auto FFT ∍1Pk Max D1[1] -0.05 dB 997.50 kHz M1[1] -6.51 dBn -10 dBm 2.40215010 GH -20 dBm--30 dBm--50 dBm -60 dBm -70 dBm

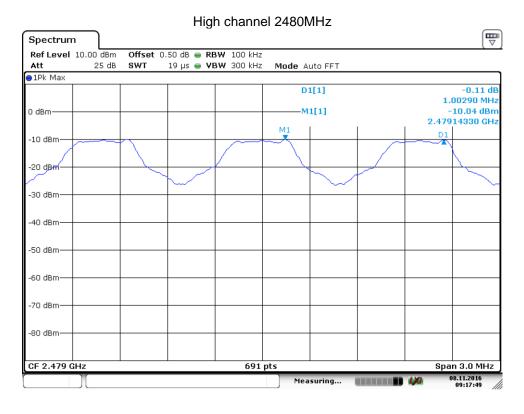
691 pts

Measuring...

Span 3.0 MHz









9.5 Number of hopping frequencies

Test Method

- 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.

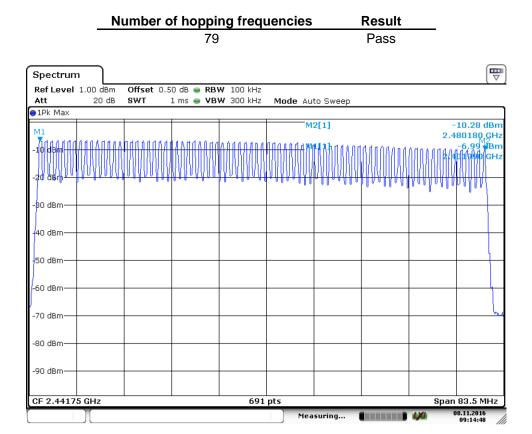
		m	\ 11
_	-1	m	111

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 Bluetooth Core Specification. Here GFSK modulation mode was used to show compliance.





9.6 Dwell Time

Test Method

- 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 Bluetooth 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] * 79 [ch] = 31.6 [s*ch];

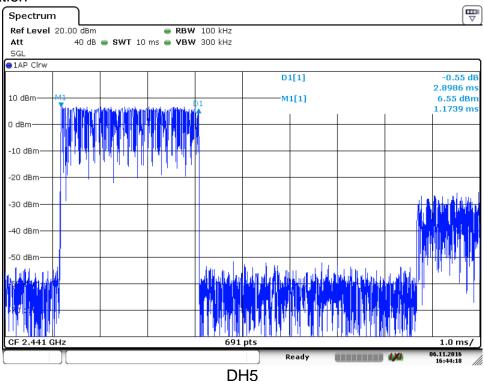
The burst width, which is directly measured, refers to the duration on one channel hop.

The maximum number of hopping channels in 31.6s for DH5=1600 / 6 / 79 *31.6=106.67

Test Result

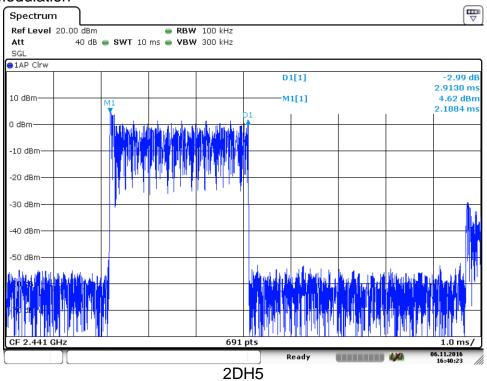
Modulation	Mode	Reading (us)	Total Hops	Test Result (ms)	Limit (ms)	Result
GFSK	DH5	2971.0	106.67	319.20	< 400	Pass
π/4-DQPSK	2DH5	2971.0	106.67	319.20	< 400	Pass
8-DPSK	3DH5	3014.5	106.67	321.56	< 400	Pass

GFSK Modulation

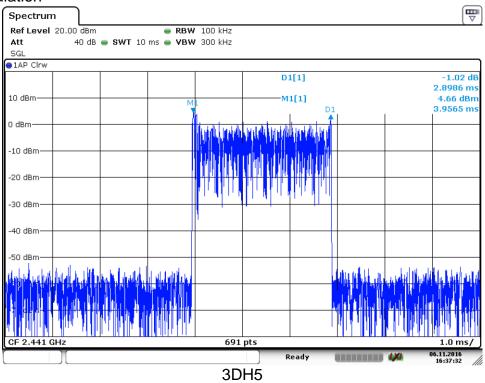




π/4-DQPSK Modulation



8-DPSK Modulation





9.7 Spurious RF conducted emissions

Test Method

- 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

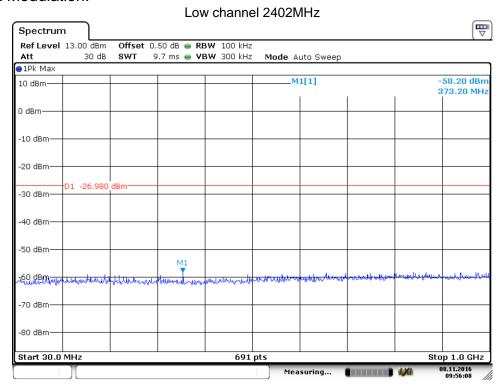
Frequency Range MHz	Limit (dBc)
30-25000	-20

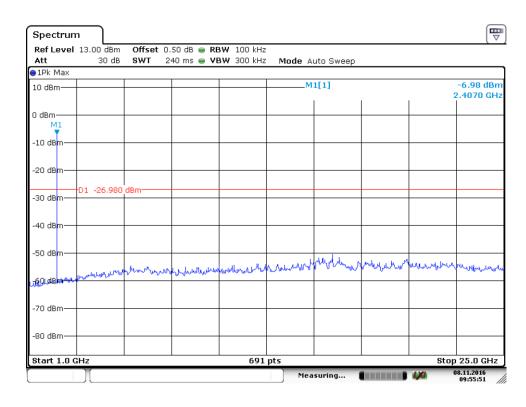


Spurious RF conducted emissions

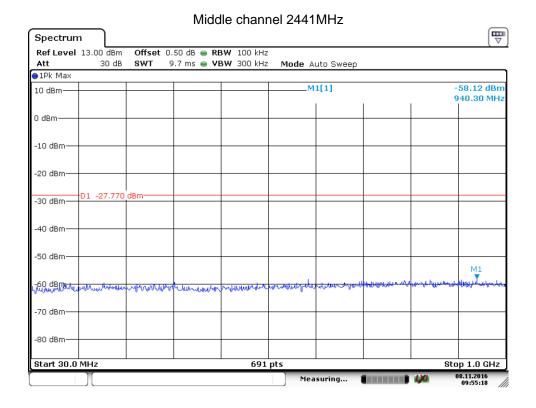
Only the worst case (which is subject to the maximum output power, GFSK mode) test result is listed in the report.

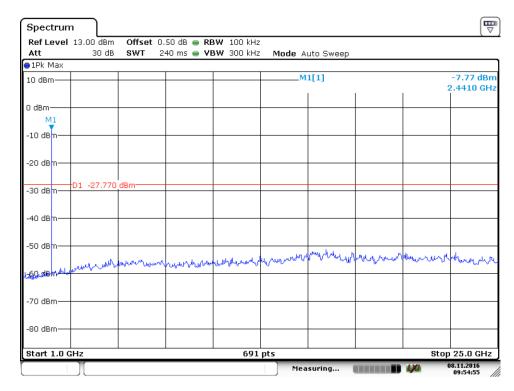
BT3.0 GFSK Modulation:



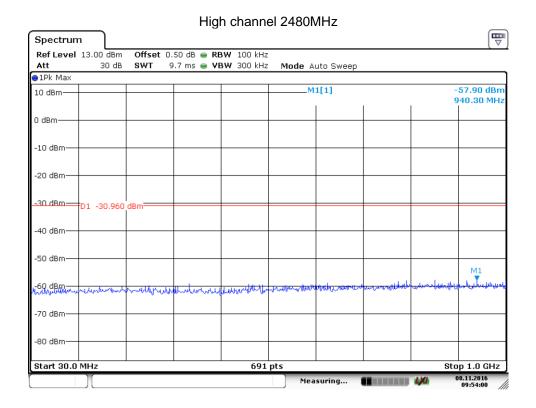


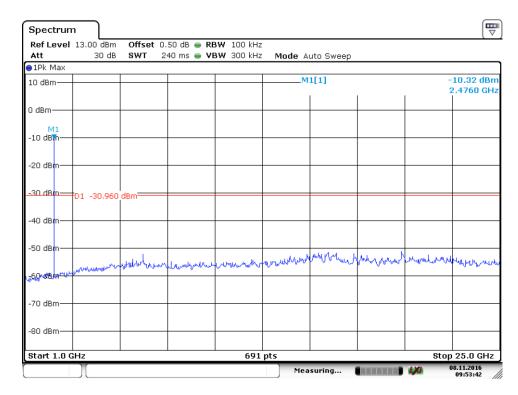














9.8 Band edge testing

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.

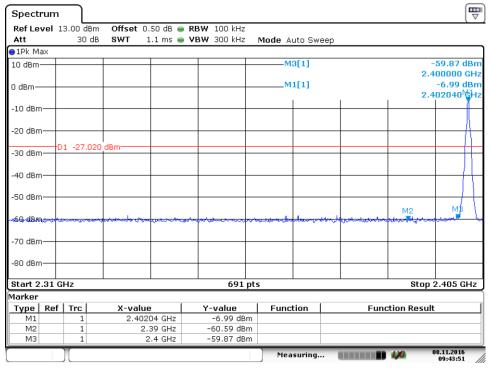
Limit:

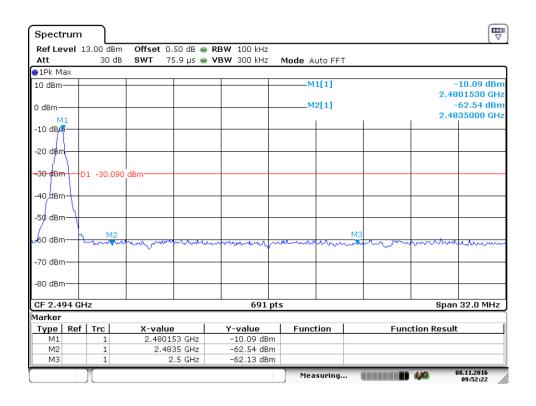
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.



Only the worst case (Hopping off mode) test result is listed in the report.

Hopping off mode:







9.9 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 3meter 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	Detector
IVITIZ	uv/III	dBμV/m	
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.

The only worse case (which is subject to the maximum output, GFSK mode) test result is listed in the report.

Transmitting spurious emission test result as below:

BT3.0 GFSK Modulation 2402MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
Dallu	MHz	dBuV/m		dBµV/m		dBuV/m	
30-	971.98	41.12	Н	40	QP	4.88	Pass
1000MHz	900.29	37.42	V	40	QP	8.58	Pass
	*13623.75	43.75	Н	74	PK	30.25	Pass
1000-			Н	54	AV		Pass
25000MHz	*7507.03	38.64	V	74	PK	35.36	Pass
			V	54	AV		Pass

BT3.0 GFSK Modulation 2441MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
Danu	MHz	dBuV/m		dBµV/m		dBuV/m	
30-			Н	43.5	QP		Pass
1000MHz			Н	46	QP		Pass
	*11114.06	40.26	Н	74	PK	33.74	Pass
1000-			Н	54	AV		Pass
25000MHz	*9377.34	40.24	V	74	PK	33.76	Pass
			V	54	AV		Pass



BT3.0 GFSK Modulation 2480MHz Test Result

Frequency Band	Frequency	Emission Level	Polarization	Limit	Detector	Margin	Result
Dallu	MHz	dBuV/m		dBµV/m		dBuV/m	
30-			Н	43.5	QP		Pass
1000MHz			Н	46	QP		Pass
	*11834.06	41.88	Н	74	PK	32.12	Pass
1000-			Н	54	AV		Pass
25000MHz	*9203.43	40.12	V	74	PK	33.88	Pass
			V	54	AV		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.



10 Test Equipment List

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE	
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2017-7-15	
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2017-7-15	
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2017-8-3	
Horn Antenna	Rohde & Schwarz	HF907	102294	2017-7-15	
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2017-7-15	
3m Semi-anechoic chamber TDK		9X6X6		2019-5-29	
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2017-7-15	
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2017-8-3	
Horn Antenna	Rohde & Schwarz	HF907	102294	2017-7-15	
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2017-7-15	
LISN	Rohde & Schwarz	ENV4200	100249	2017-7-15	
LISN	Rohde & Schwarz	ENV216	100326	2017-7-15	
ISN	Rohde & Schwarz	ENY81	100177	2017-7-15	
ISN Rohde & Schwi		ENY81-CA6	101664	2017-7-15	
High Voltage Probe	Rohde & Schwarz	TK9420(VT94 20)	9420-58	2017-7-15	
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2017-7-15	



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					
Items	Extended Uncertainty				
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.83dB;				
30MHz-1000MHz	Vertical: 4.91dB;				
Uncertainty for Radiated Emission in 3m chamber	Horizontal: 4.89dB;				
1000MHz-18000MHz	Vertical: 4.88dB;				
Uncertainty for Conducted RF test	2.04dB				
Uncertainty for Conducted Emission 150kHz-30MHz (for	3.50dB				
test using AMN ENV216 or ENV4200)					