

FCC - TEST REPORT

Report Number : **60.790.19.013.01R01** Date of Issue : October 28, 2019

Model : **OTbeat Core2**

Product Type : **Heart Rate Monitor Chest strap and pod combo**

Applicant : **OTF Distribution, LLC**

Address : **6000 Broken Sound Parkway NW, Suite 201, Boca Raton,
Florida 33487**

Production Facility : **KENDY ELECTRONICS (DONGGUAN) CO., LTD**

Address : **XIN SI HUANG TANG VILLAGE HENG LI TOWN,
DONGGUANG CITY, GUANGDONG, CHINA**

Test Result : ☒ **Positive** ☐ **Negative**

Total pages including Appendices : 36

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2 Description of Equipment Under Test

Description of the Equipment Under Test

Product: Heart Rate Monitor Chest strap and pod combo

Model no.: OTbeat Core2

FCC ID: 2APQGCORE2

Rating: 3V DC (CR2032 battery)

Frequency: 2402MHz-2480MHz (Tx and Rx)

Antenna gain: 0 dBi

Number of operated channel: 40

Modulation: GFSK

Auxiliary Equipment and Software Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.	S/N
Computer	Lenovo	X220	0A72168

Auxiliary Software Used during Test:

DESCRIPTION	SOFTWARE NAME	VERSION	REMARK
RF Test Mode Software	nRFgo	1.16	Provided by applicant

3 Summary of Test Standards

Test Standards
FCC Part 15 Subpart C 10-1-18 Edition Federal Communications Commission, PART 15 — Radio Frequency Devices, Subpart C — Unintentional Radiators
All the tests were performed using the procedures from ANSI C63.4(2014) and ANSI C63.10 (2013).

4 Details about the Test Laboratory

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,
 Shenzhen 518052, P.R.China
 FCC Registration Number: 502708

Emission Tests	
Test Item	Test Site
FCC Part 15 Subpart C	
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	Site 1
FCC Title 47 Part 15.207 Conduct Emission	NIL
FCC Title 47 Part 15.247(a)(1) 6dB & 99% Bandwidth	Site 1
FCC Title 47 Part 15.247(b) Peak Output Power	Site 1
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	Site 1
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	Site 1
FCC Title 47 Part 15.247(e) Power Spectral Density	Site 1
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	Site 1

4.1 Test Equipment Site List

Radiated emission Test – Site 1

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 26	101269	2020-6-28
Signal Analyzer	Rohde & Schwarz	FSV40	101031	2020-6-28
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100398	2020-7-7
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9163	707	2020-7-5
Horn Antenna	Rohde & Schwarz	HF907	102294	2020-6-22
Wideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	12827	2020-7-5
Pre-amplifier	Rohde & Schwarz	SCU 18	102230	2020-6-28
Pre-amplifier	Rohde & Schwarz	SCU 40A	100432	2020-6-28
Attenuator	Agilent	8491A	MY39264334	2020-6-28
3m Semi-anechoic chamber	TDK	9X6X6	----	2020-7-7
Test software	Rohde & Schwarz	EMC32	Version 9.15.00	N/A

Conducted Emission Test – Site 1

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
EMI Test Receiver	Rohde & Schwarz	ESR 3	101782	2020-6-28
LISN	Rohde & Schwarz	ENV4200	100249	2020-6-28
LISN	Rohde & Schwarz	ENV432	101318	2020-7-19
LISN	Rohde & Schwarz	ENV216	100326	2020-6-28
ISN	Rohde & Schwarz	ENY81	100177	2020-6-28
ISN	Rohde & Schwarz	ENY81-CA6	101664	2020-6-28
High Voltage Probe	Rohde & Schwarz	TK9420(VT9420)	9420-584	2020-6-24
RF Current Probe	Rohde & Schwarz	EZ-17	100816	2020-7-2
Attenuator	Shanghai Huaxiang	TS2-26-3	080928189	2020-6-28
Test software	Rohde & Schwarz	EMC32	Version9.15.00	N/A

20dB & 99% Bandwidth, Peak Output Power, Spurious Emissions at Antenna Terminals, 100kHz Bandwidth of band edges, Power Spectral Density – Site 1

DESCRIPTION	MANUFACTURER	MODEL NO.	SERIAL NO.	CAL. DUE DATE
Signal Analyzer	Rohde & Schwarz	FSV40	101030	2020-6-28
RF Switch Module	Rohde & Schwarz	OSP120/OSP-B157	101226/100851	2020-6-28

4.2 Measurement System Uncertainty

Measurement System Uncertainty Emissions

System Measurement Uncertainty	
Items	Extended Uncertainty
Uncertainty for Radiated Emission in 3m chamber 9kHz-30MHz	4.46dB
Uncertainty for Radiated Emission in 3m chamber 30MHz-1000MHz	Horizontal: 4.91dB; Vertical: 4.89dB;
Uncertainty for Radiated Emission in 3m chamber 1000MHz-25000MHz	Horizontal: 4.80dB; Vertical: 4.79dB;
Uncertainty for Conducted Emission at AC Power Line 150kHz-30MHz	3.21dB
Uncertainty for frequency test	0.6×10^{-7}

5 Summary of Test Results

Emission Tests				
FCC Part 15 Subpart C				
Test Condition	Pages	Test Result		
		Pass	Fail	N/A
FCC Title 47 Part 15.205, 15.209 & 15.247(d) Spurious Radiated Emission	12-15	☒	☐	☐
FCC Title 47 Part 15.207 Conduct Emission (1)	16	☐	☐	☒
FCC Title 47 Part 15.247(a)(2) 6dB & 99% Bandwidth	17-19	☒	☐	☐
FCC Title 47 Part 15.247(b) Peak Output Power	20-22	☒	☐	☐
FCC Title 47 Part 2.1051 & 15.247(d) Spurious Emissions at Antenna Terminals	23-28	☒	☐	☐
FCC Title 47 Part 15.247(d) 100kHz Bandwidth of band edges	29-31	☒	☐	☐
FCC Title 47 Part 15.247(e) Power Spectral Density	32-34	☒	☐	☐
FCC Title 47 Part 15.203 & 15.247(b) Antenna Requirement	35	☒	☐	☐

Remark:

(1) Conducted Emission testing is not applicable for battery operating device.

6 General Remarks

Remarks

This submittal(s) (test report) is intended for **FCC ID: 2APQGCORE2**, complies with Section 15.203, 15.205, 15.207, 15.209, 15.247 of the FCC Part 15, Subpart C rules for the DTS grant

The TX and RX range is 2402MHz-2480MHz.

SUMMARY:

- All tests according to the regulations cited on page 8 were

■ - Performed

□ - **Not** Performed

- The Equipment Under Test

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

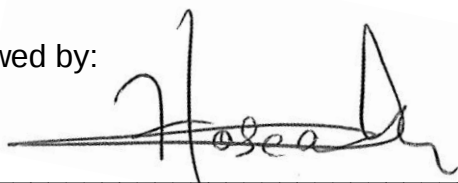
□ - **Does not** fulfill the general approval requirements.

Sample Received Date: June 21, 2019

Testing Start Date: July 3, 2019

Testing End Date: July 23, 2019

Reviewed by:



Hosea CHAN
EMC Project Engineer

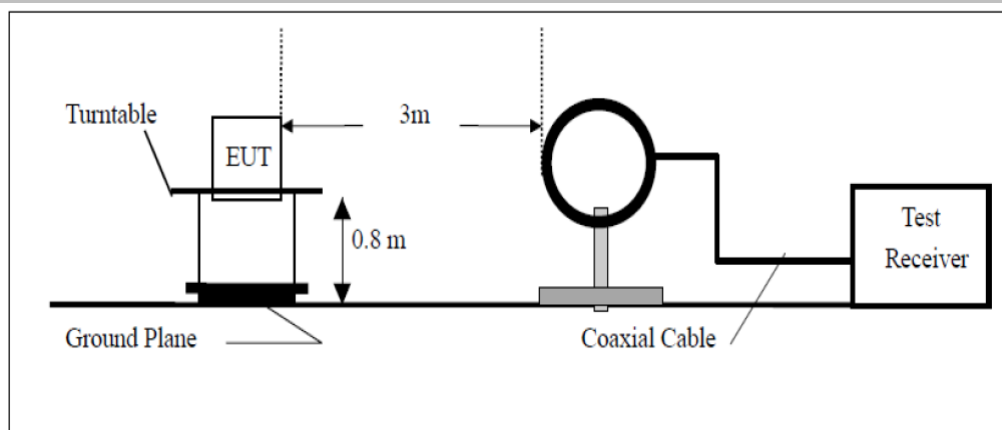
Prepared by:



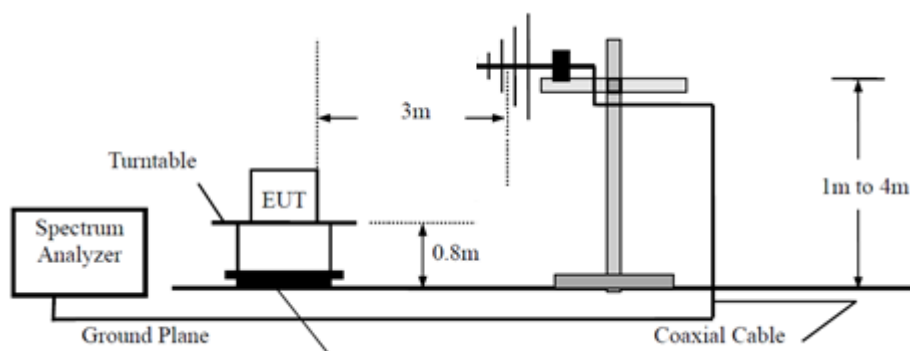
Eric LI
EMC Senior Project Engineer

7 Test Setups

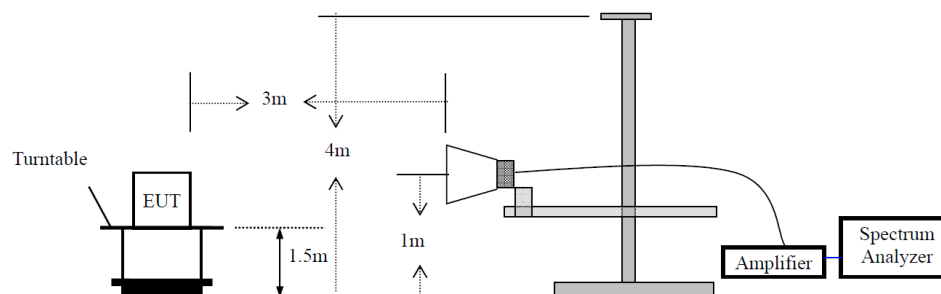
7.1 Radiated test setups 9kHz-30MHz



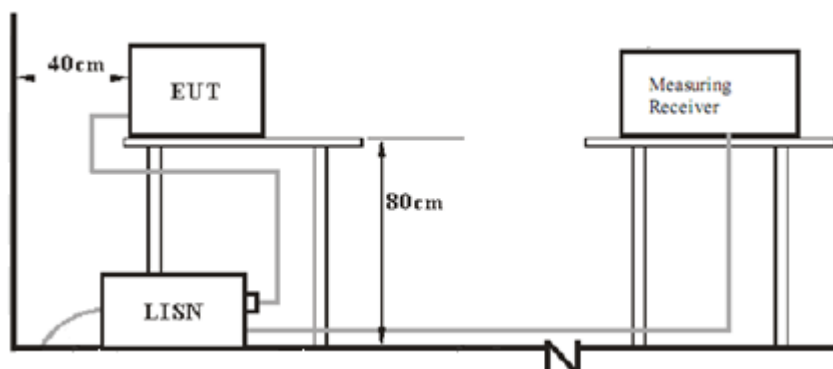
7.2 Radiated test setups Below 1GHz



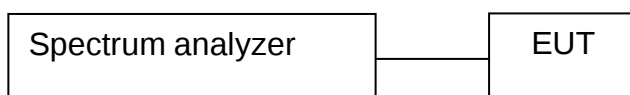
7.3 Radiated test setups Above 1GHz



7.4 AC Power Line Conducted Emission test setups



7.5 Conducted RF test setups



8 Emission Test Results

8.1 Spurious Radiated Emission

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode
 (Low channel is the worst case)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 9kHz to 1GHz

Test Result

☒ Passed☐ Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK/QP/AV	Ant. Polarity H/V	Corr. (dB)
49.992778	20.34	40.00	-19.66	Peak	H	-24.6
104.151111	17.42	43.50	-26.08	Peak	H	-27.6
228.526667	21.83	46.00	-24.17	Peak	H	-23.6
453.458889	24.11	46.00	-21.89	Peak	H	-22.6
645.518889	29.08	46.00	-16.92	Peak	H	-19.2
848.787778	33.35	46.00	-12.65	Peak	H	-16.4
50.100556	20.27	40.00	-19.73	Peak	V	-24.6
107.115000	18.95	43.50	-24.55	Peak	V	-27.6
235.370556	22.91	46.00	-23.09	Peak	V	-23.9
552.075556	25.93	46.00	-20.07	Peak	V	-20.5
740.525000	29.09	46.00	-16.91	Peak	V	-17.8
933.123889	32.28	46.00	-13.72	Peak	V	-15.4

Remark:

1. As the measured peak value not exceeded the Quasi-peak limit, Quasi-peak value no need to be measured.

Spurious Radiated Emission

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 1GHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBμV/m	dBμV/m	dB	PK/QP/AV	H/V	(dB)
1255.156250	30.85	54.00	-23.15	Peak	H	-12.0
4804.218750	44.32	54.00	-9.68	Peak	H	2.7
7205.531250	38.20	54.00	-15.80	Peak	H	5.0
10023.812500	39.74	54.00	-14.26	Peak	H	8.5
15342.156250	48.01	54.00	-5.99	Peak	H	18.6
1227.031250	30.25	54.00	-23.75	Peak	V	-12.1
4804.218750	41.07	54.00	-12.93	Peak	V	2.7
7070.062500	37.75	54.00	-16.25	Peak	V	5.8
12666.250000	42.21	54.00	-11.79	Peak	V	12.8
17106.968750	48.62	54.00	-5.38	Peak	V	20.4

Remark:

1.As the measured peak value not exceeded the average limit, average value no need to be measured.

Spurious Radiated Emission

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 1GHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK/QP/AV	Ant. Polarity H/V	Corr. (dB)
1251.718750	30.15	54.00	-23.85	Peak	H	-12.1
4880.156250	45.31	54.00	-8.69	Peak	H	2.9
7319.218750	39.91	54.00	-14.09	Peak	H	5.2
10027.000000	40.82	54.00	-13.18	Peak	H	8.5
15383.593750	46.89	54.00	-7.11	Peak	H	18.4
1230.468750	30.79	54.00	-23.21	Peak	V	-12.1
4880.156250	45.24	54.00	-8.76	Peak	V	5.9
7050.406250	37.97	54.00	-16.03	Peak	V	9.0
9459.093750	40.79	54.00	-13.21	Peak	V	18.0
15633.281250	46.15	54.00	-7.85	Peak	V	5.9

Remark:

1.As the measured peak value not exceeded the average limit, average value no need to be measured.

Spurious Radiated Emission

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.205, 15.209 & 15.247(d)
 Comment: 3V DC
 Remark: 1GHz to 25GHz

Test Result	
☒	Passed
☐	Not Passed

Frequency	Result	Limit	Margin	Detector	Ant. Polarity	Corr.
MHz	dBμV/m	dBμV/m	dB	PK/QP/AV	H/V	(dB)
1253.906250	30.79	54.00	-23.21	Peak	H	-12.0
4960.156250	45.80	54.00	-8.20	Peak	H	3.3
7440.343750	42.51	54.00	-11.49	Peak	H	6.0
10168.312500	39.58	54.00	-14.42	Peak	H	8.7
15860.125000	47.60	54.00	-6.40	Peak	H	18.2
1230.937500	29.64	54.00	-24.36	Peak	V	-12.1
4960.156250	42.79	54.00	-11.21	Peak	V	3.3
7023.843750	37.63	54.00	-16.37	Peak	V	5.6
9439.437500	39.94	54.00	-14.06	Peak	V	8.9
15388.375000	46.12	54.00	-7.88	Peak	V	18.4

Remark:

- 1.As the measured peak value not exceeded the average limit, average value no need to be measured.

8.2 Conducted Emission at AC Power line

Conducted Emission testing is not applicable for this device as it is a battery operating device.

8.3 6dB & 99% Bandwidth

EUT:

OTbeat Core2

Op Condition:

Operated, TX Mode (2402MHz)

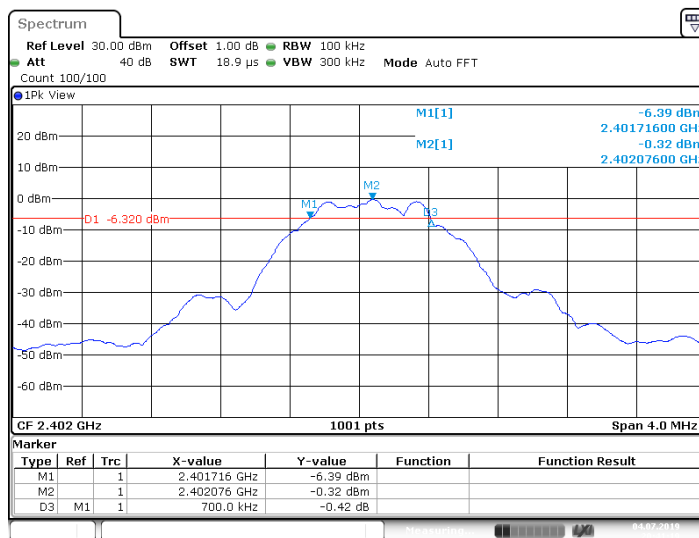
Test Specification:

FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth

Comment:

3V DC

Test Result

☒ Passed☐ Not Passed

Bandwidth	Measured Value	Limit
6dB bandwidth	0.700 MHz	> 0.5MHz
99% OCB	1.043 MHz	NA

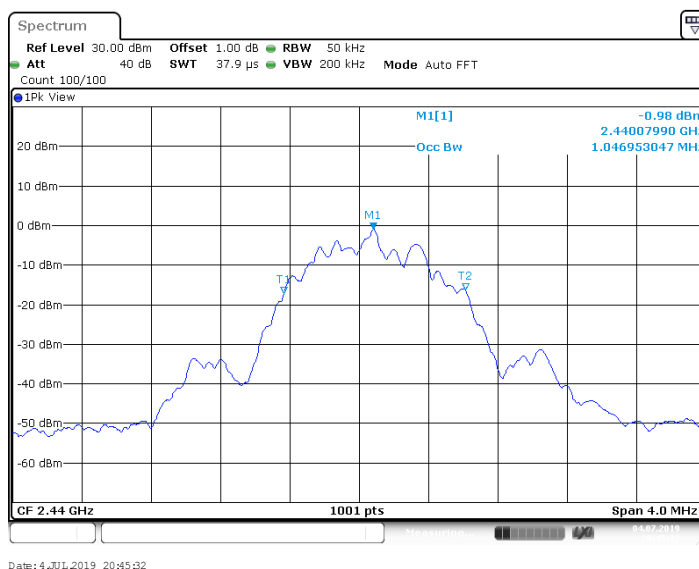
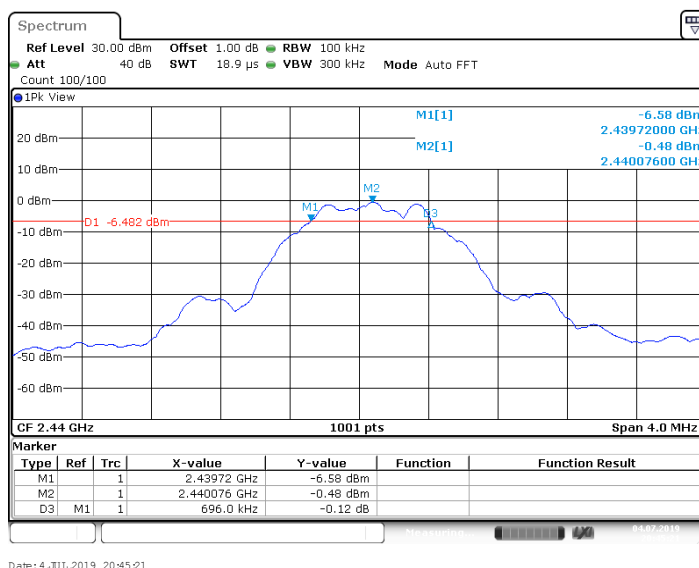
6dB & 99% Bandwidth

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed



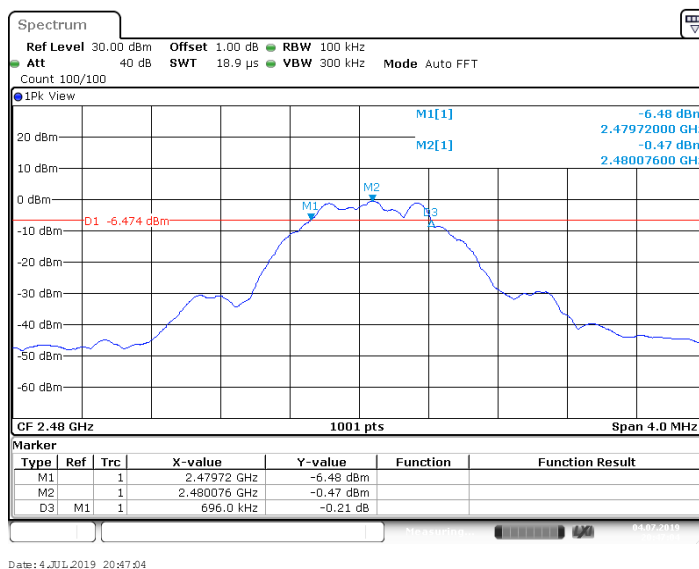
Bandwidth	Measured Value	Limit
6dB bandwidth	0.696 MHz	> 0.5 MHz
99% OCB	1.047 MHz	NA

6dB & 99% Bandwidth

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC15.247(a)(2), 6dB Bandwidth & 99% Bandwidth
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed

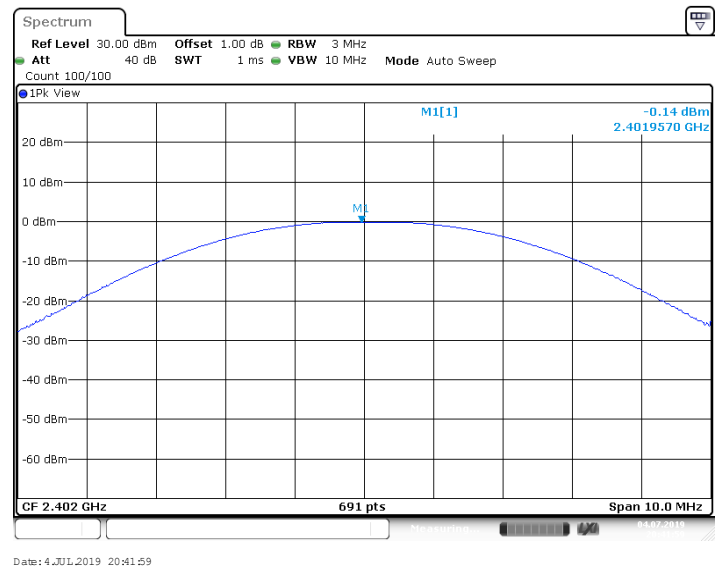


Bandwidth	Measured Value	Limit
6dB bandwidth	0.696 MHz	> 0.5 MHz
99% OCB	1.055 MHz	NA

8.4 Peak Output Power

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(b)
 Comment: 3V DC

Test Result	
☒	Passed
☐	Not Passed

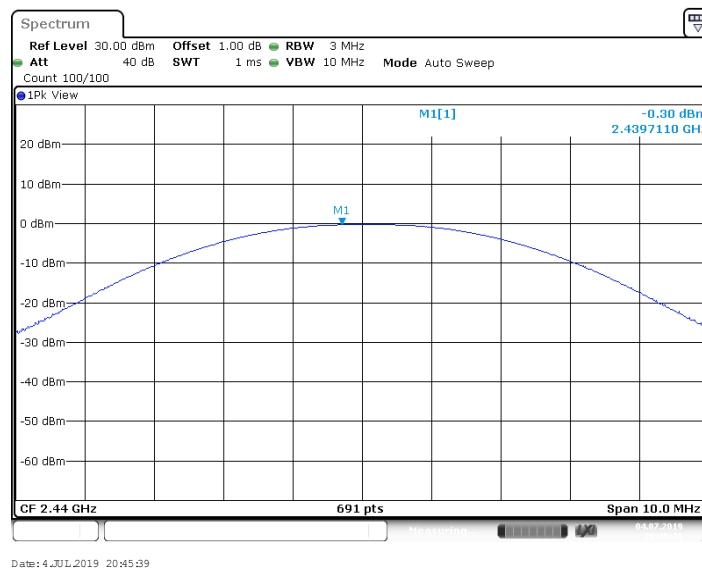


Conducted Output Power	Limit
-0.14 dBm	< 30dBm

Peak Output Power

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(b)
Comment: 3V DC

Test Result
☒ Passed
☐ Not Passed



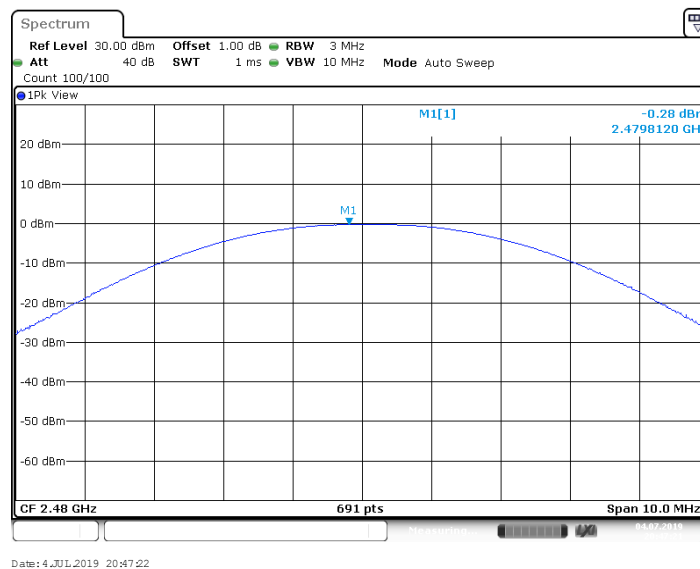
Conducted Output Power	Limit
-0.30 dBm	< 30dBm

Peak Output Power

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(b)
Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed



Conducted Output Power	Limit
-0.28 dBm	< 30dBm

8.5 Spurious Emissions at Antenna Terminals

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed

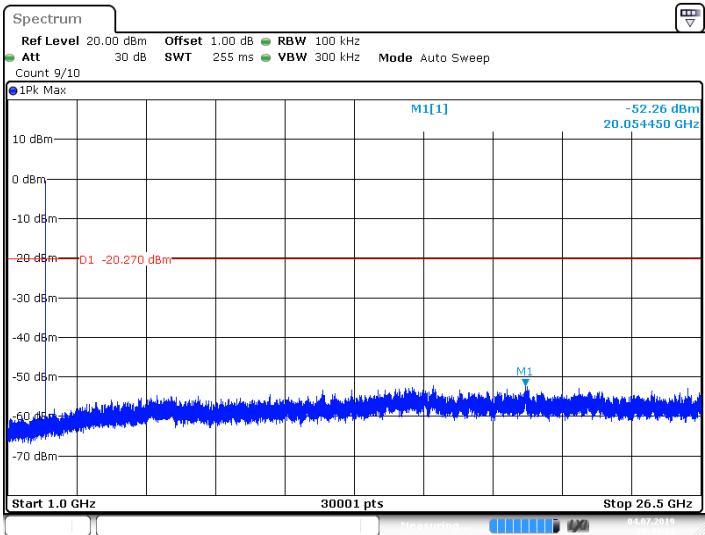
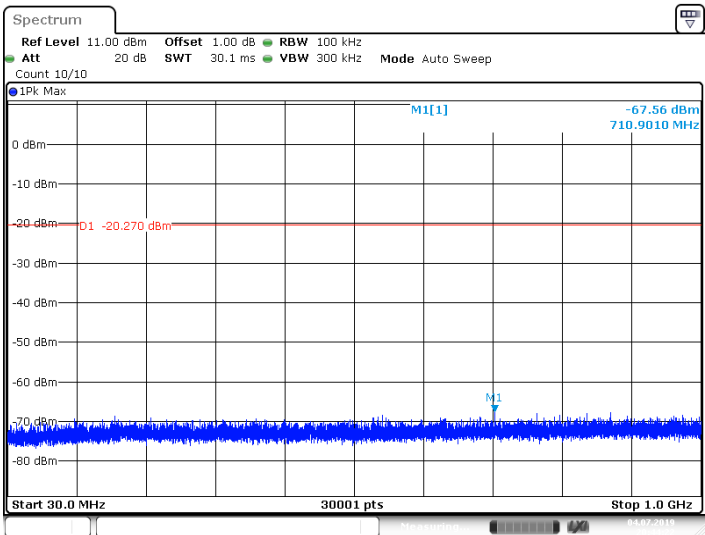
Channel	FreqRange	RefLevel	Result	Limit	Verdict
2402	Reference	-0.27	-0.27	---	PASS
2402	30~1000	-0.27	-67.56	<=-20.27	PASS
2402	1000~26500	-0.27	-52.26	<=-20.27	PASS



Spurious Emissions at Antenna Terminals

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result	
☒	Passed
☐	Not Passed



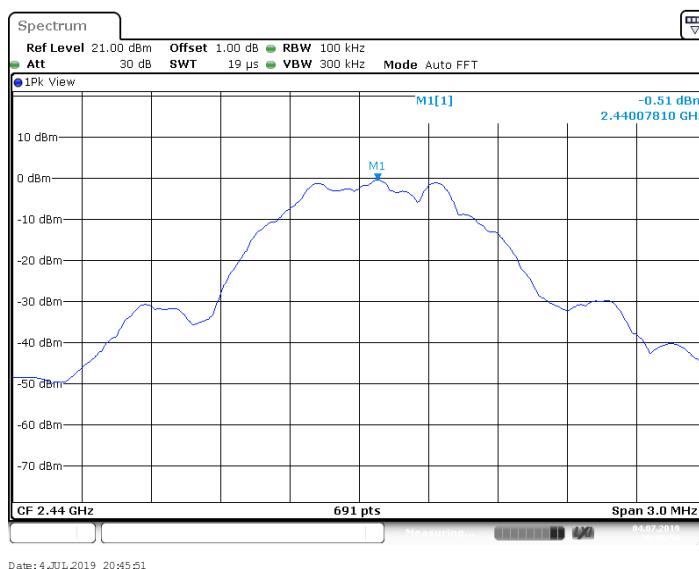
Spurious Emissions at Antenna Terminals

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2440MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed

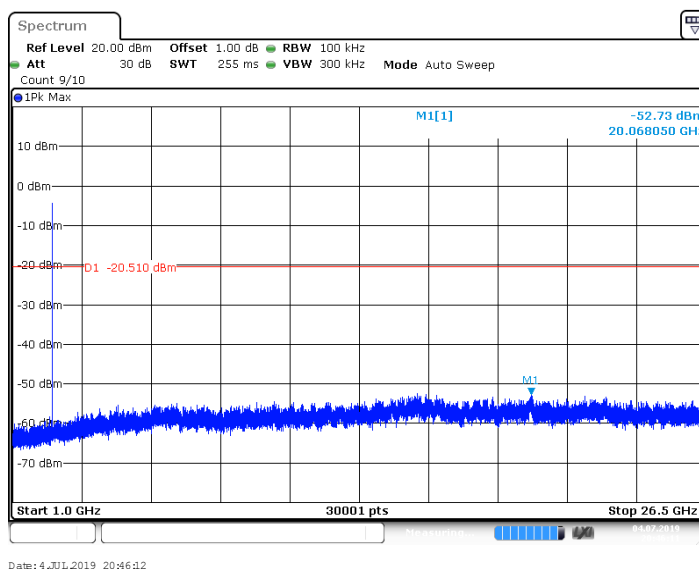
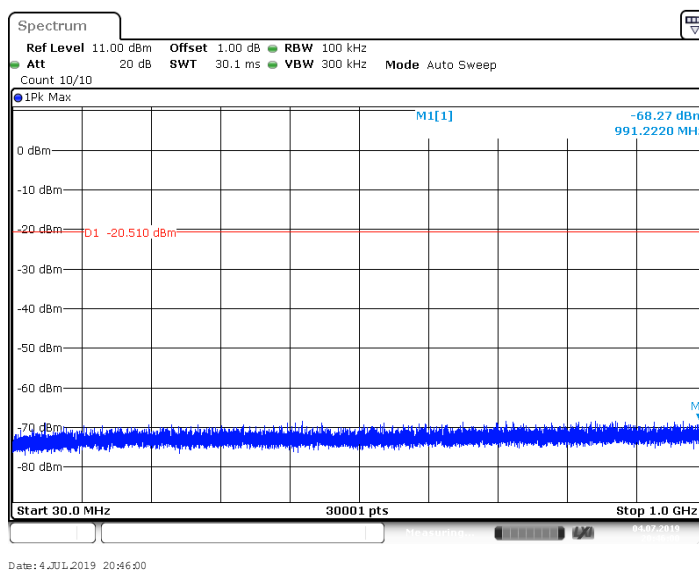
Channel	FreqRange	RefLevel	Result	Limit	Verdict
2440	Reference	-0.51	-0.51	---	PASS
2440	30~1000	-0.51	-68.27	<=-20.51	PASS
2440	1000~26500	-0.51	-52.73	<=-20.51	PASS



Spurious Emissions at Antenna Terminals

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

Spurious Emissions at Antenna Terminals

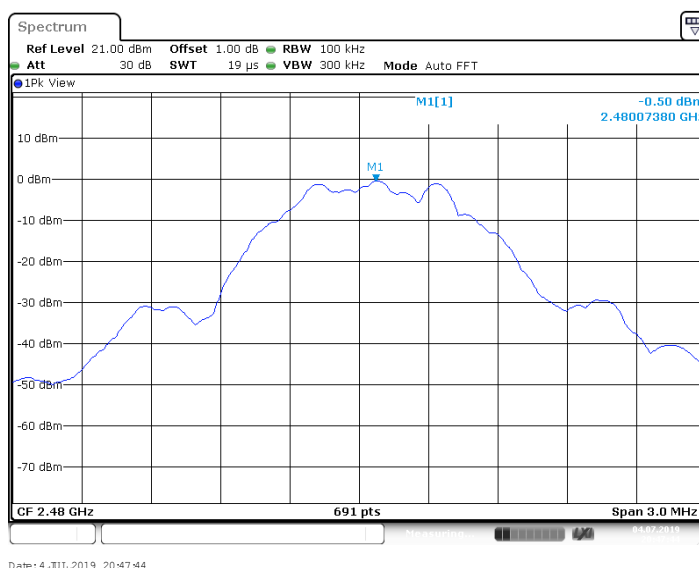
EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2480MHz)
 Test Specification: FCC2.1051 & 15.247(d)
 Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed

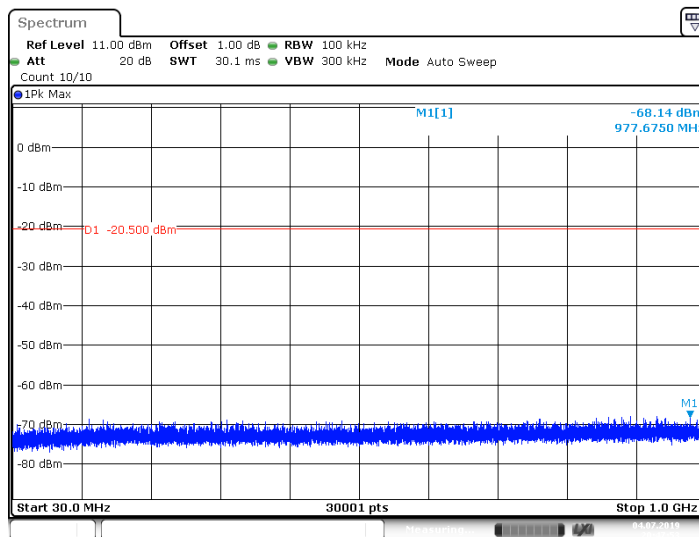
Channel	FreqRange	RefLevel	Result	Limit	Verdict
2480	Reference	-0.50	-0.50	---	PASS
2480	30~1000	-0.50	-68.14	≤ -20.5	PASS
2480	1000~26500	-0.50	-52.31	≤ -20.5	PASS



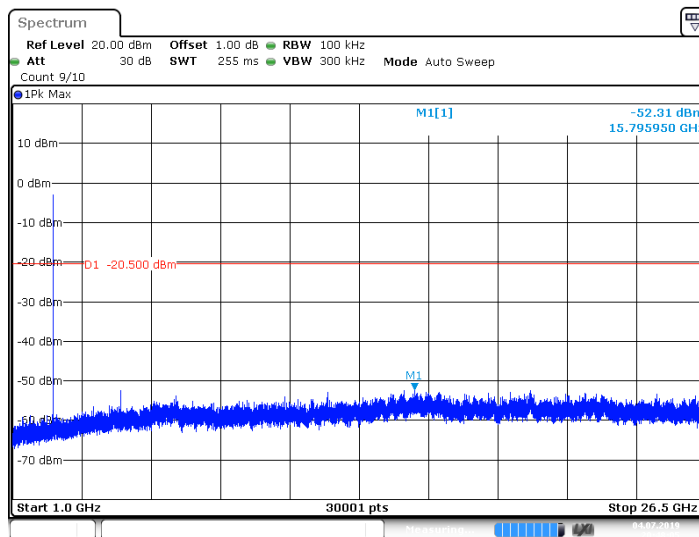
Spurious Emissions at Antenna Terminals

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC2.1051 & 15.247(d)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

Date: 4 JUL 2019 20:47:53



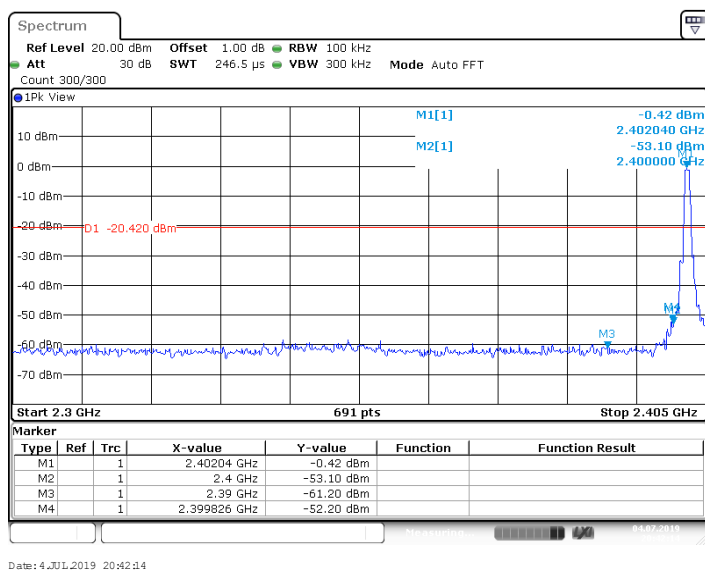
Date: 4 JUL 2019 20:48:05

8.6 100kHz Bandwidth of band edges

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2402MHz)
 Test Specification: FCC15.247(d), Conducted
 Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed



Band edges	Limit
52.66 dB	> 20dB

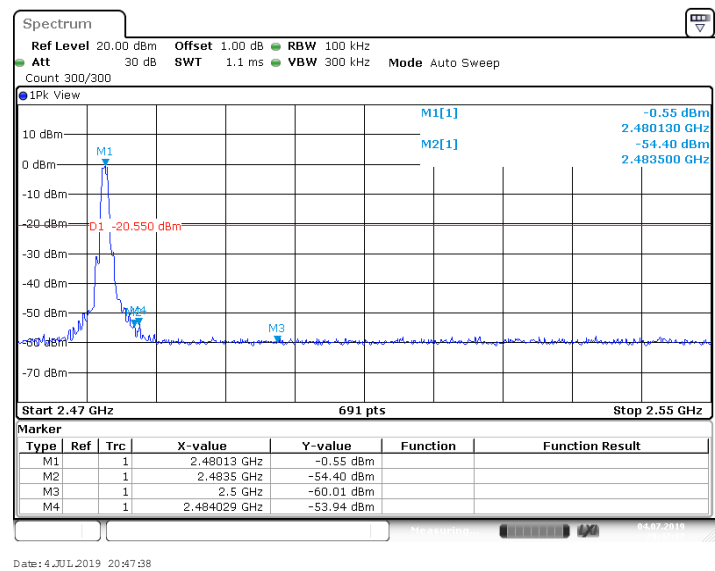
100kHz Bandwidth of band edges

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(d), Conducted
Comment: 3V DC

Test Result

☒ Passed

☐ Not Passed



Band edges	Limit
53.85 dB	> 20dB

100kHz Bandwidth of band edges

EUT: OTbeat Core2
 Op Condition: Operated, TX Mode (2402MHz & 2480MHz)
 Test Specification: FCC15.247(d), Radiated method
 Comment: 3V DC

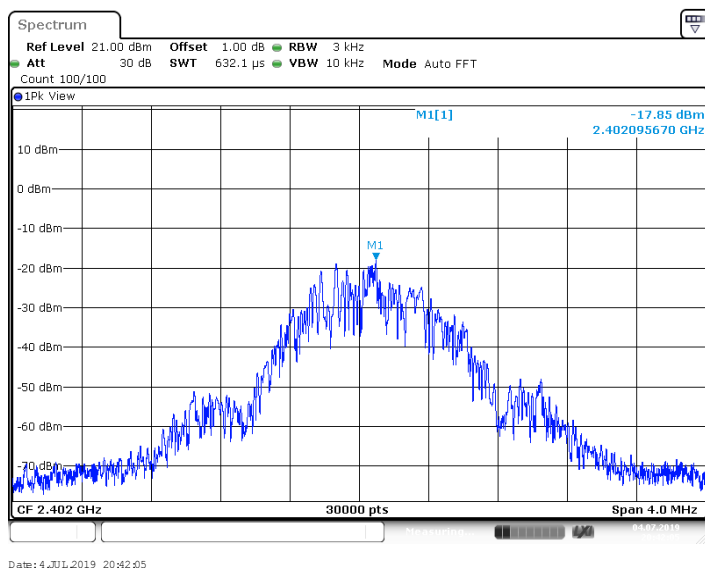
Test Result	
☒	Passed
☐	Not Passed

Channel	Frequency MHz	Result dBμV/m	Limit dBμV/m	Margin dB	Detector PK /AV	Ant. Polarity H/V	Corr. (dB)
2402	2400.00	44.52	74.00	-29.48	Peak	H	-5.5
2402	2400.00	36.18	54.00	-17.82	Average	H	-5.5
2402	2400.00	41.77	74.00	-32.23	Peak	V	-5.5
2402	2400.00	33.65	54.00	-20.35	Average	V	-5.5
2480	2483.50	42.51	74.00	-31.49	Peak	H	-4.8
2480	2483.50	33.83	54.00	-20.17	Average	H	-4.8
2480	2483.50	43.66	74.00	-30.34	Peak	V	-4.8
2480	2483.50	34.15	54.00	-19.85	Average	V	-4.8

8.7 Power Spectral Density

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2402MHz)
Test Specification: FCC15.247(e)
Comment: 3V DC

Test Result
☒ Passed
☐ Not Passed

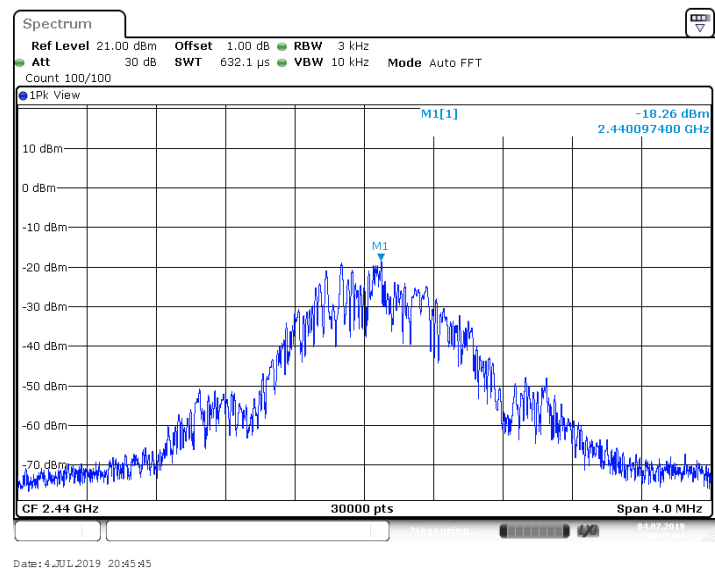


PSD	Limit
-17.85 dBm	< 8 dBm

Power Spectral Density

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2440MHz)
Test Specification: FCC15.247(e)
Comment: 3V DC

Test Result	
☒	Passed
☐	Not Passed

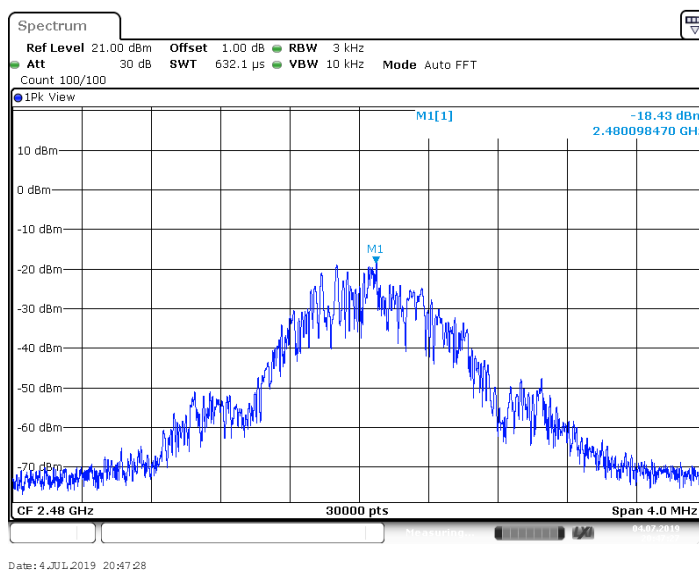


PSD	Limit
-18.26 dBm	< 8 dBm

Power Spectral Density

EUT: OTbeat Core2
Op Condition: Operated, TX Mode (2480MHz)
Test Specification: FCC15.247(e)
Comment: 3V DC

Test Result

☒ Passed☐ Not Passed

PSD	Limit
-18.43 dBm	< 8 dBm

8.8 Antenna Requirement

EUT: OTbeat Core2
Op Condition: Operated, TX Mode
Test Specification: FCC15.203 & 15.247(b)
Comment: 3V DC

Test Result

☒ Passed
☐ Not Passed

Limit

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

Antenna Connector Construction

The antenna used in this product is integrated antenna on PCB, and the maximum gain of this antenna is 0.0 dBi.

9 Appendix A - General Product Information

Radiofrequency radiation exposure evaluation

According to KDB 447498 D01v06 section 4.3.1, For frequencies between 100 MHz to 6GHz and test separation distances ≤ 50 mm, the Numeric threshold is determined as:

Step a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR

>> The fundamental frequency of the EUT is 2402-2480MHz,
the test separation distance is ≤ 50 mm.
(Manufacturer specified the separation distance is: 5mm)

Step a)

>> Numeric threshold (2402MHz), $\text{mW} / 5\text{mm} \cdot \sqrt{2.402\text{GHz}} \leq 3.0$
Numeric threshold (2402MHz) $\leq 9.678\text{mW}$

>> Numeric threshold (2440MHz), $\text{mW} / 5\text{mm} \cdot \sqrt{2.440\text{GHz}} \leq 3.0$
Numeric threshold (2440MHz) $\leq 9.602\text{mW}$

>> Numeric threshold (2480MHz), $\text{mW} / 5\text{mm} \cdot \sqrt{2.480\text{GHz}} \leq 3.0$
Numeric threshold (2480MHz) $\leq 9.525\text{mW}$

>> The power of EUT measured (2402MHz) is: $-0.14\text{dBm} = 0.968\text{mW}$
The power of EUT measured (2440MHz) is: $-0.30\text{dBm} = 0.933\text{mW}$
The power of EUT measured (2480MHz) is: $-0.28\text{dBm} = 0.938\text{mW}$

Which is smaller than the Numeric threshold.

Therefore, the device is exempt from stand-alone SAR test requirements.