

Conducted test results

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October 07, 2025

Test Standard(s) FCC 15.247 - NI

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Authorized

Salih Öztan
Lab Manager
Radio Labs

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FCC 15.247 # Peak output power PM DTS ~ BT LE 1 Msps

References

TC start	07.10.2025 09:47:41
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.5.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
Description	FCC 15.247 Peak output power PM DTS - BT LE 1 Msps
Information	

EUT Common Settings BT Low Energy

Intermodulation value N	3
Image freq. Low Mid High [MHz]	0 0 0
Power class	2
1 Mbps supported	True TXpayload 255 RXpayload 255
2 Mbps supported	False TXpayload 255 RXpayload 255
Longrange S8 supported	False TXpayload 255 RXpayload 255
Longrange S2 supported	False TXpayload 255 RXpayload 255
Signaling settings	None HCI 1 2400 None S1 None On
Signaling RF settings	RF1com 0 0 On
User interaction	Yes

Equipment

Switch matrix,cetecom advanced GmbH,USM,D001,1.0.0
Power sensor,Keysight Technologies,U2021XA,MY64330007,A.04.07

Test Parameter

Technology to test	BT LE 1 Msps
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2402
Frequency mid to test	False Freq [MHz] 2440
Frequency high to test	False Freq [MHz] 2480
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0
Full path type	EUT_PM_GEN_SIG

Test Parameter

Full path name	EUT1.MP.SIG1/EUT1.PM/
Switch bits	00000001:00000001:00000000:00000111

Test at TX 2402 MHz

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30	-4.04	dBm	PASS

Verdict

PASS

FCC 15.247 # Peak output power PM DTS ~ BT LE 1 Msps

References

TC start	07.10.2025 09:48:34
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.5.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
Description	FCC 15.247 Peak output power PM DTS - BT LE 1 Msps
Information	

EUT Common Settings BT Low Energy

Intermodulation value N	3
Image freq. Low Mid High [MHz]	0 0 0
Power class	2
1 Mbps supported	True TXpayload 255 RXpayload 255
2 Mbps supported	False TXpayload 255 RXpayload 255
Longrange S8 supported	False TXpayload 255 RXpayload 255
Longrange S2 supported	False TXpayload 255 RXpayload 255
Signaling settings	None HCI 1 2400 None S1 None On
Signaling RF settings	RF1com 0 0 On
User interaction	Yes

Equipment

Switch matrix,cetecom advanced GmbH,USM,D001,1.0.0
Power sensor,Keysight Technologies,U2021XA,MY64330007,A.04.07

Test Parameter

Technology to test	BT LE 1 Msps
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2402
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	False Freq [MHz] 2480
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0
Full path type	EUT_PM_GEN_SIG

Test Parameter

Full path name	EUT1.MP.SIG1/EUT1.PM/
Switch bits	00000001:00000001:00000000:00000111

Test at TX 2440 MHz

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30	-4.53	dBm	PASS

Verdict

PASS

FCC 15.247 # Peak output power PM DTS ~ BT LE 1 Msps

References

TC start	07.10.2025 09:49:12
Ambit temp (test rack) [°C] humidity [rel%]	not enabled not enabled
System version	6.0.5.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.3 PKPM1 Peak-reading Power Meter Method
Description	FCC 15.247 Peak output power PM DTS - BT LE 1 Msps
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EUT Common Settings BT Low Energy

Intermodulation value N	3
Image freq. Low Mid High [MHz]	0 0 0
Power class	2
1 Mbps supported	True TXpayload 255 RXpayload 255
2 Mbps supported	False TXpayload 255 RXpayload 255
Longrange S8 supported	False TXpayload 255 RXpayload 255
Longrange S2 supported	False TXpayload 255 RXpayload 255
Signaling settings	None HCI 1 2400 None S1 None On
Signaling RF settings	RF1com 0 0 On
User interaction	Yes

Equipment

Switch matrix,cetecom advanced GmbH,USM,D001,1.0.0
Power sensor,Keysight Technologies,U2021XA,MY64330007,A.04.07

Test Parameter

Technology to test	BT LE 1 Msps
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2402
Frequency mid to test	False Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2480
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0
Full path type	EUT_PM_GEN_SIG

Test Parameter

Full path name	EUT1.MP.SIG1/EUT1.PM/
Switch bits	00000001:00000001:00000000:00000111

Test at TX 2480 MHz

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30	-5.48	dBm	PASS

Verdict

PASS

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