

Conducted test results

No.1-6998-23-02-10_TR1-A201-R1

June 27, 2024

Test Standard(s)	NA - NI
	FCC 15.247 - NI

This document is electronically signed and valid without handwritten signature.
Public keys for verification of the electronic signatures can be requested at the testing laboratory.

Authorized

Andreas Curette
Testing Manager
Radio Labs

Table of Content

NA # Terminal communication ~ Common	3
NA # Terminal communication ~ Common	4
FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps	5
NA # Terminal communication ~ Common	9
NA # Terminal communication ~ Common	10
FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps	11
NA # Terminal communication ~ Common	15
NA # Terminal communication ~ Common	16
FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps	17
NA # Terminal communication ~ Common	21
NA # Terminal communication ~ Common	22
FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 2 Msps	23
NA # Terminal communication ~ Common	27
NA # Terminal communication ~ Common	28
FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 2 Msps	29
NA # Terminal communication ~ Common	33
NA # Terminal communication ~ Common	34
FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 2 Msps	35

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:40:09
Ambit temp [°C] humidity [rel%]	30.3 45
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcidtool -i hci0 cmd 0x08 0x001F
Output result	< HCI Command: ogf 0x08, ocf 0x001f, plen 0 > HCI Event: 0x0e plen 6 01 1F 20 00 00 00

Verdict

INFO

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:40:15
Ambit temp [°C] humidity [rel%]	30.3 45
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x3F 0x87 0xFC
Output result	< HCI Command: ogf 0x3f, ocf 0x0087, plen 1 FC > HCI Event: 0x0e plen 4 01 87 FC 00

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x0034 0x00 0xFF 0x00 0x01
Output result	< HCI Command: ogf 0x08, ocf 0x0034, plen 4 00 FF 00 01 > HCI Event: 0x0e plen 4 01 34 20 00

Verdict

INFO

FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps

References

TC start	27.06.2024 11:40:53
Ambit temp [°C] humidity [rel%]	30.3 44
System version	5.0.7.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Description	FCC 15.247 Max Peak Output Power Conducted 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	True 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	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit BT,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

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]	0.7

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 2402 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.86	dBm	INFO
Ref. frequency	---	---	2402.200	MHz	INFO

READ SA SETTINGS:

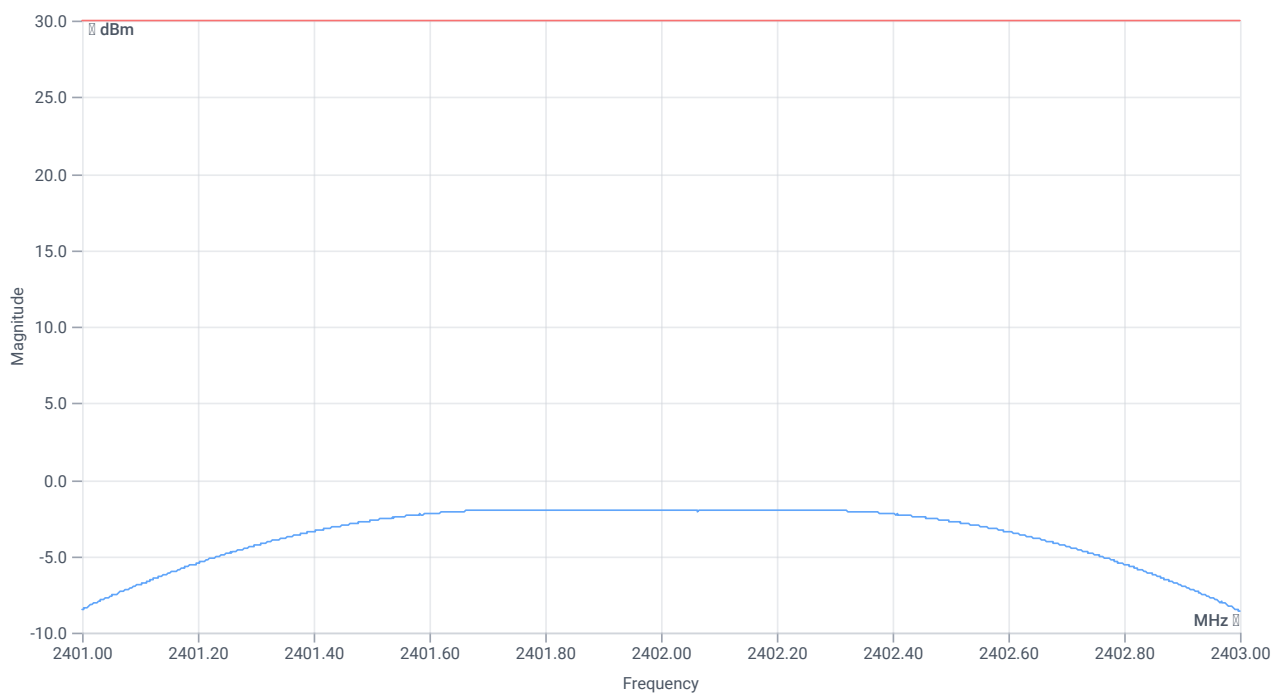
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.14 8.96 10
Start [MHz] Stop [MHz]	2401.000 2403.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

DTS bandwidth

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
DTS bandwidth (6dB)	---	---	674	kHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.14 8.96 15
Start [MHz] Stop [MHz]	2401.000 2403.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 1001 SWE



Peak output power

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30.00	-1.96	dBm	PASS
Peak power	---	1000	0.636796	mW	PASS
Frequency at peak	---	---	2401.776	MHz	INFO

Verdict

PASS

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:41:38
Ambit temp [°C] humidity [rel%]	30.3 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x001F
Output result	< HCI Command: ogf 0x08, ocf 0x001f, plen 0 > HCI Event: 0x0e plen 6 01 1F 20 00 00 00

Verdict

INFO

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:41:44
Ambit temp [°C] humidity [rel%]	30.3 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcidtool -i hci0 cmd 0x3F 0x87 0xFC
Output result	< HCI Command: ogf 0x3f, ocf 0x0087, plen 1 FC > HCI Event: 0x0e plen 4 01 87 FC 00

Test Parameter

Command	hcidtool -i hci0 cmd 0x08 0x0034 0x13 0xFF 0x00 0x01
Output result	< HCI Command: ogf 0x08, ocf 0x0034, plen 4 13 FF 00 01 > HCI Event: 0x0e plen 4 01 34 20 00

Verdict

INFO

FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps

References

TC start	27.06.2024 11:42:22
Ambit temp [°C] humidity [rel%]	30.4 44
System version	5.0.7.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Description	FCC 15.247 Max Peak Output Power Conducted 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	True 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	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit BT,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetekom advanced GmbH,USM,A001,1.0.0

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]	0.7

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 2440 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.79	dBm	INFO
Ref. frequency	---	---	2440.200	MHz	INFO

READ SA SETTINGS:

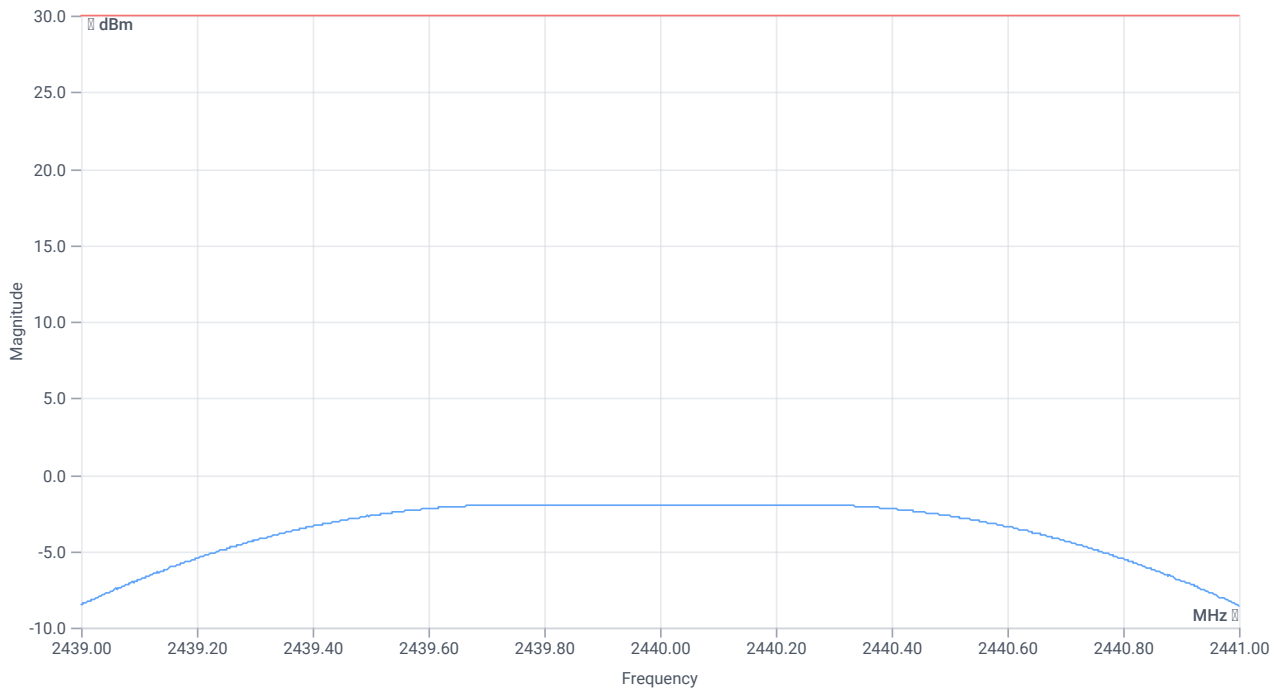
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.21 9 10
Start [MHz] Stop [MHz]	2439.000 2441.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

DTS bandwidth

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
DTS bandwidth (6dB)	---	---	674	kHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.21 9 15
Start [MHz] Stop [MHz]	2439.000 2441.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 1001 SWE



Peak output power

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30.00	-1.95	dBm	PASS
Peak power	---	1000	0.638263	mW	PASS
Frequency at peak	---	---	2440.014	MHz	INFO

Verdict

PASS

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:43:07
Ambit temp [°C] humidity [rel%]	30.4 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x001F
Output result	< HCI Command: ogf 0x08, ocf 0x001f, plen 0 > HCI Event: 0x0e plen 6 01 1F 20 00 00 00

Verdict

INFO

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:43:13
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x3F 0x87 0xFC
Output result	< HCI Command: ogf 0x3f, ocf 0x0087, plen 1 FC > HCI Event: 0x0e plen 4 01 87 FC 00

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x0034 0x27 0xFF 0x00 0x01
Output result	< HCI Command: ogf 0x08, ocf 0x0034, plen 4 27 FF 00 01 > HCI Event: 0x0e plen 4 01 34 20 00

Verdict

INFO

FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 1 Msps

References

TC start	27.06.2024 11:43:50
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Description	FCC 15.247 Max Peak Output Power Conducted 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	True 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	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit BT,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

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]	0.7

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 2480 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.89	dBm	INFO
Ref. frequency	---	---	2480.300	MHz	INFO

READ SA SETTINGS:

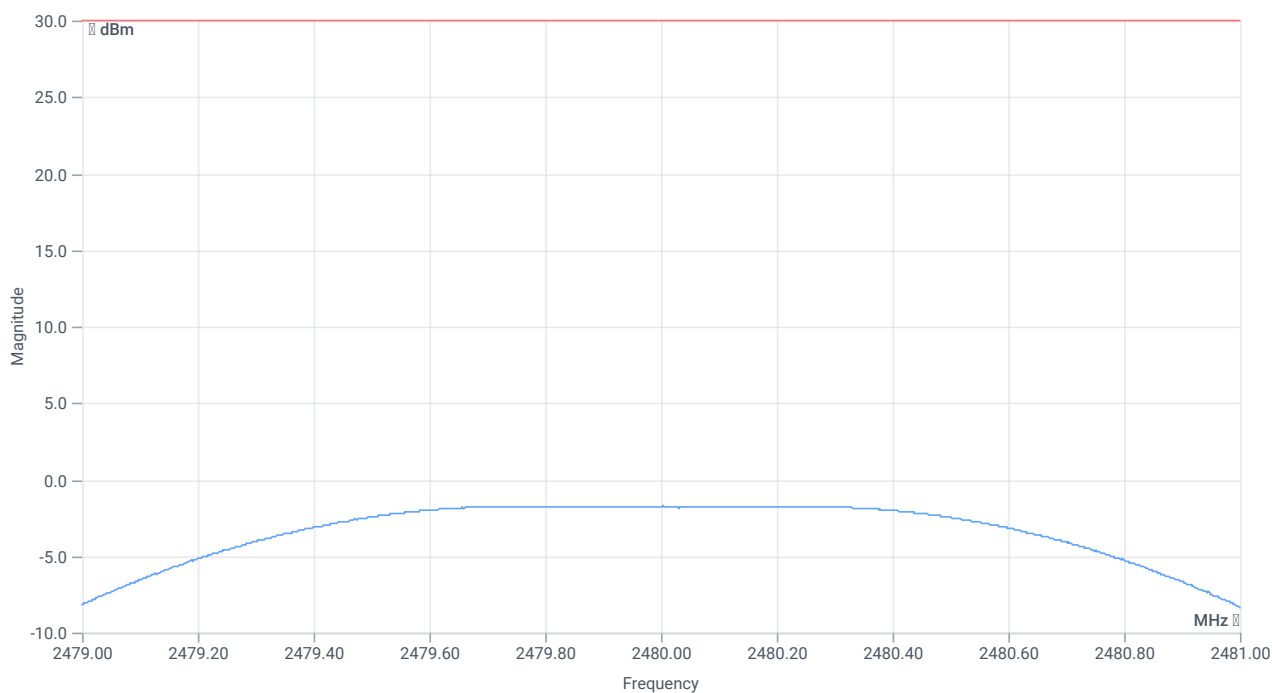
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.11 9.1 10
Start [MHz] Stop [MHz]	2479.000 2481.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

DTS bandwidth

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
DTS bandwidth (6dB)	---	---	672	kHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.11 9.1 15
Start [MHz] Stop [MHz]	2479.000 2481.000
RBW [MHz] VBW [MHz]	1.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 1001 SWE



Peak output power

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30.00	-1.73	dBm	PASS
Peak power	---	1000	0.671429	mW	PASS
Frequency at peak	---	---	2480.004	MHz	INFO

Verdict

PASS

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:44:35
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x001F
Output result	< HCI Command: ogf 0x08, ocf 0x001f, plen 0 > HCI Event: 0x0e plen 6 01 1F 20 00 00 00

Verdict

INFO

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:44:41
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x3F 0x87 0xFC
Output result	< HCI Command: ogf 0x3f, ocf 0x0087, plen 1 FC > HCI Event: 0x0e plen 4 01 87 FC 00

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x0034 0x01 0xFF 0x00 0x02
Output result	< HCI Command: ogf 0x08, ocf 0x0034, plen 4 01 FF 00 02 > HCI Event: 0x0e plen 4 01 34 20 00

Verdict

INFO

FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 2 Msps

References

TC start	27.06.2024 11:44:47
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Description	FCC 15.247 Max Peak Output Power Conducted DTS - BT LE 2 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	True 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	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit BT,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	BT LE 2 Msps
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 2404
Frequency mid to test	False Freq [MHz] 2440
Frequency high to test	False Freq [MHz] 2478
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 2404 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.88	dBm	INFO
Ref. frequency	---	---	2404.600	MHz	INFO

READ SA SETTINGS:

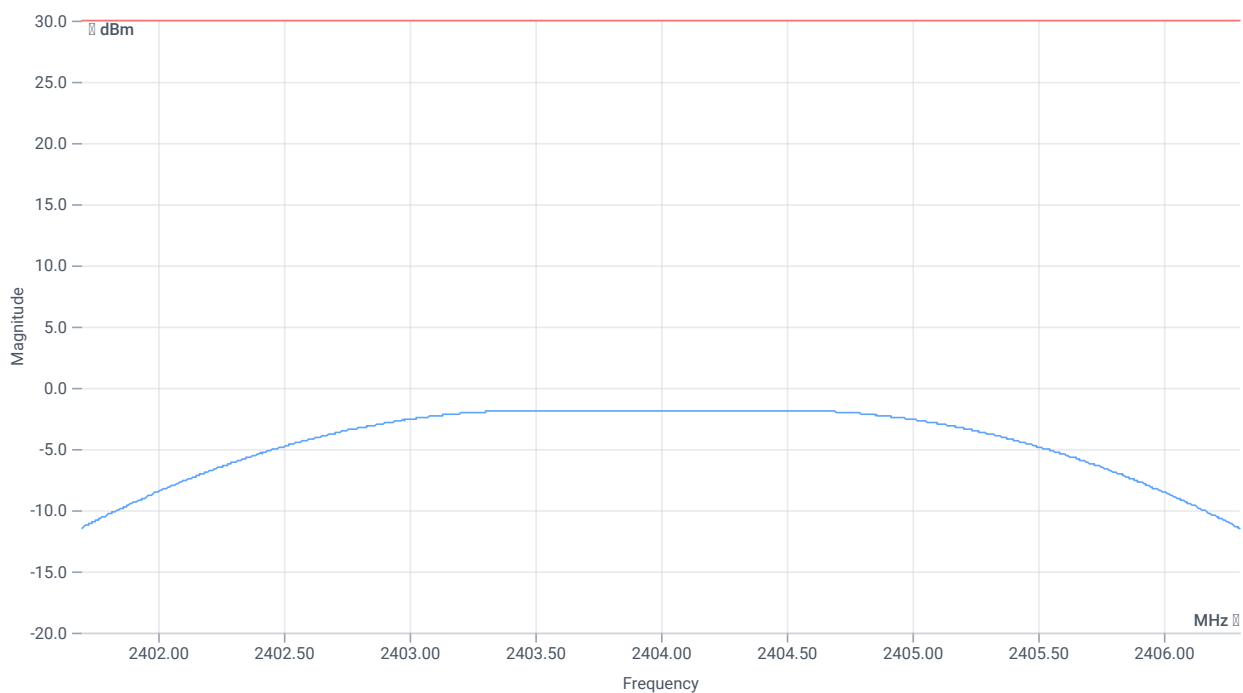
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.12 8.96 10
Start [MHz] Stop [MHz]	2401.700 2406.300
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

DTS bandwidth

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
DTS bandwidth (6dB)	---	---	1173	kHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.12 8.96 15
Start [MHz] Stop [MHz]	2401.700 2406.300
RBW [MHz] VBW [MHz]	2.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 1001 SWE



Peak output power

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30.00	-1.83	dBm	PASS
Peak power	---	1000	0.656145	mW	PASS
Frequency at peak	---	---	2403.499	MHz	INFO

Verdict

PASS

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:45:32
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x001F
Output result	< HCI Command: ogf 0x08, ocf 0x001f, plen 0 > HCI Event: 0x0e plen 6 01 1F 20 00 00 00

Verdict

INFO

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:45:38
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x3F 0x87 0xFC
Output result	< HCI Command: ogf 0x3f, ocf 0x0087, plen 1 FC > HCI Event: 0x0e plen 4 01 87 FC 00

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x0034 0x13 0xFF 0x00 0x02
Output result	< HCI Command: ogf 0x08, ocf 0x0034, plen 4 13 FF 00 02 > HCI Event: 0x0e plen 4 01 34 20 00

Verdict

INFO

FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 2 Msps

References

TC start	27.06.2024 11:45:44
Ambit temp [°C] humidity [rel%]	30.5 44
System version	5.0.7.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Description	FCC 15.247 Max Peak Output Power Conducted DTS - BT LE 2 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	True 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	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit BT,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	BT LE 2 Msps
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2404
Frequency mid to test	True Freq [MHz] 2440
Frequency high to test	False Freq [MHz] 2478
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 2440 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-2.00	dBm	INFO
Ref. frequency	---	---	2440.500	MHz	INFO

READ SA SETTINGS:

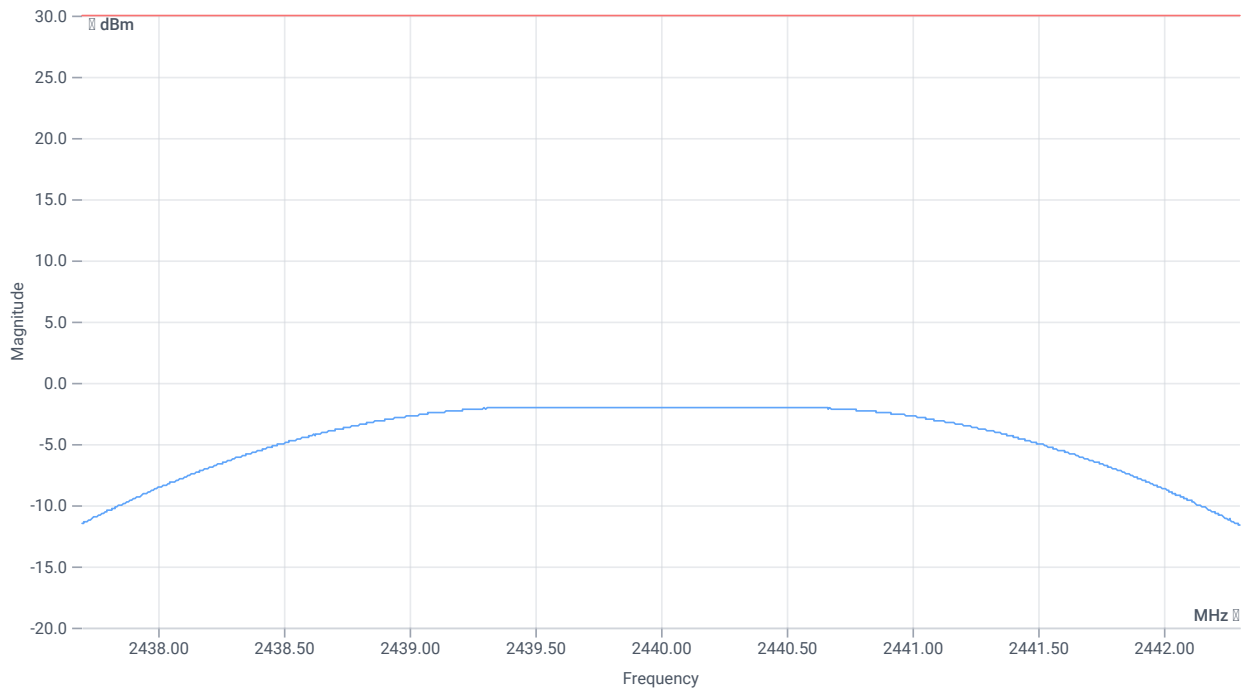
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.00 9 10
Start [MHz] Stop [MHz]	2437.700 2442.300
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

DTS bandwidth

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
DTS bandwidth (6dB)	---	---	1169	kHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.00 9 15
Start [MHz] Stop [MHz]	2437.700 2442.300
RBW [MHz] VBW [MHz]	2.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 1001 SWE



Peak output power

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30.00	-1.97	dBm	PASS
Peak power	---	1000	0.635331	mW	PASS
Frequency at peak	---	---	2439.518	MHz	INFO

Verdict

PASS

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:48:27
Ambit temp [°C] humidity [rel%]	30.6 43
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x001F
Output result	< HCI Command: ogf 0x08, ocf 0x001f, plen 0 > HCI Event: 0x0e plen 6 01 1F 20 00 00 00

Verdict

INFO

NA # Terminal communication ~ Common

References

TC start	27.06.2024 11:48:33
Ambit temp [°C] humidity [rel%]	30.6 43
System version	5.0.7.0
Standard Version	NA NI
Method	
Description	Terminal communication SSH
Information	

Test Parameter

Command	hcitool -i hci0 cmd 0x3F 0x87 0xFC
Output result	< HCI Command: ogf 0x3f, ocf 0x0087, plen 1 FC > HCI Event: 0x0e plen 4 01 87 FC 00

Test Parameter

Command	hcitool -i hci0 cmd 0x08 0x0034 0x26 0xFF 0x00 0x02
Output result	< HCI Command: ogf 0x08, ocf 0x0034, plen 4 26 FF 00 02 > HCI Event: 0x0e plen 4 01 34 20 00

Verdict

INFO

FCC 15.247 # Maximum peak conducted output power DTS ~ BT LE 2 Msps

References

TC start	27.06.2024 11:48:39
Ambit temp [°C] humidity [rel%]	30.6 43
System version	5.0.7.0
Standard Version	FCC 15.247 NI
Method	DTS: KDB 558074 D01 V05 - Chapter 8.3.1.1 RBW ≥ DTS Bandwidth
Description	FCC 15.247 Max Peak Output Power Conducted DTS - BT LE 2 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	True 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	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Signaling unit BT,Rohde&Schwarz,CMW,1201.0002k75/102550,4.0.190
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	BT LE 2 Msps
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 2404
Frequency mid to test	False Freq [MHz] 2440
Frequency high to test	True Freq [MHz] 2478
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7

Test Parameter

Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.MP.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 2478 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.93	dBm	INFO
Ref. frequency	---	---	2478.500	MHz	INFO

READ SA SETTINGS:

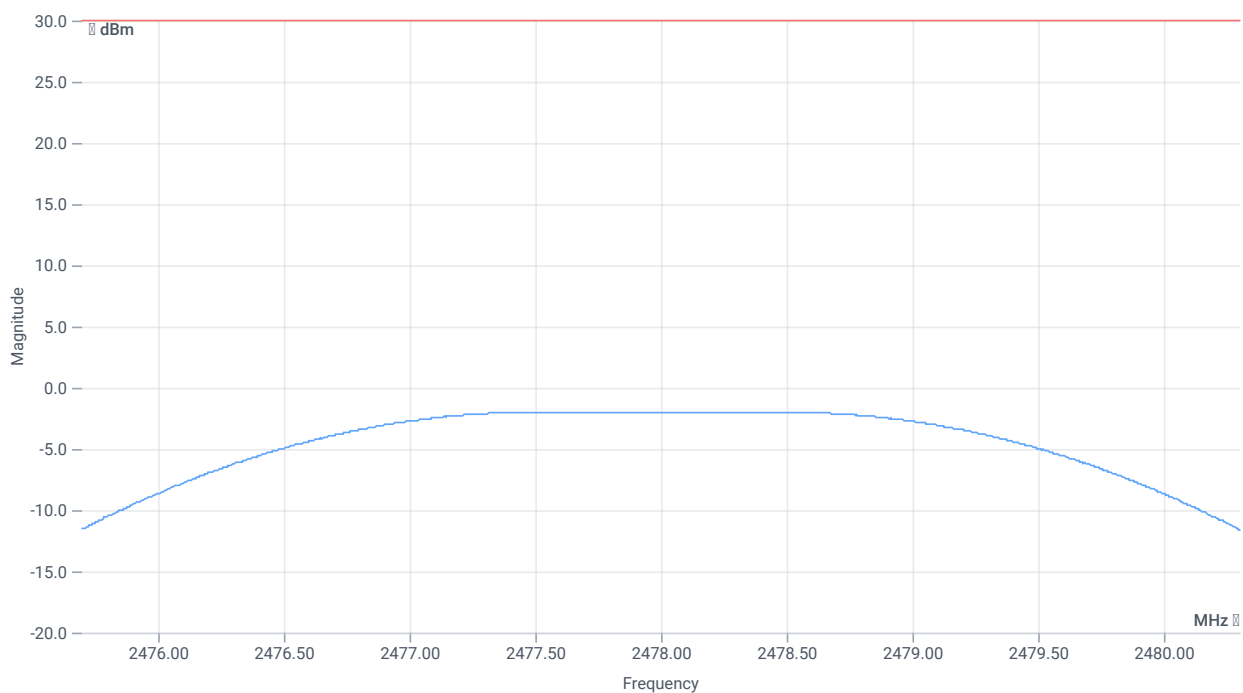
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.07 9.09 10
Start [MHz] Stop [MHz]	2475.700 2480.300
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 10001 SWE

DTS bandwidth

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
DTS bandwidth (6dB)	---	---	1170	kHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.07 9.09 15
Start [MHz] Stop [MHz]	2475.700 2480.300
RBW [MHz] VBW [MHz]	2.000000 5.000000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	50 200 1001 SWE



Peak output power

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Peak power	---	30.00	-1.98	dBm	PASS
Peak power	---	1000	0.63387	mW	PASS
Frequency at peak	---	---	2477.481	MHz	INFO

Verdict

PASS

- END OF DOCUMENT -