

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

References

TC start	26.01.2024 17:40:16
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5230
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5230 MHz

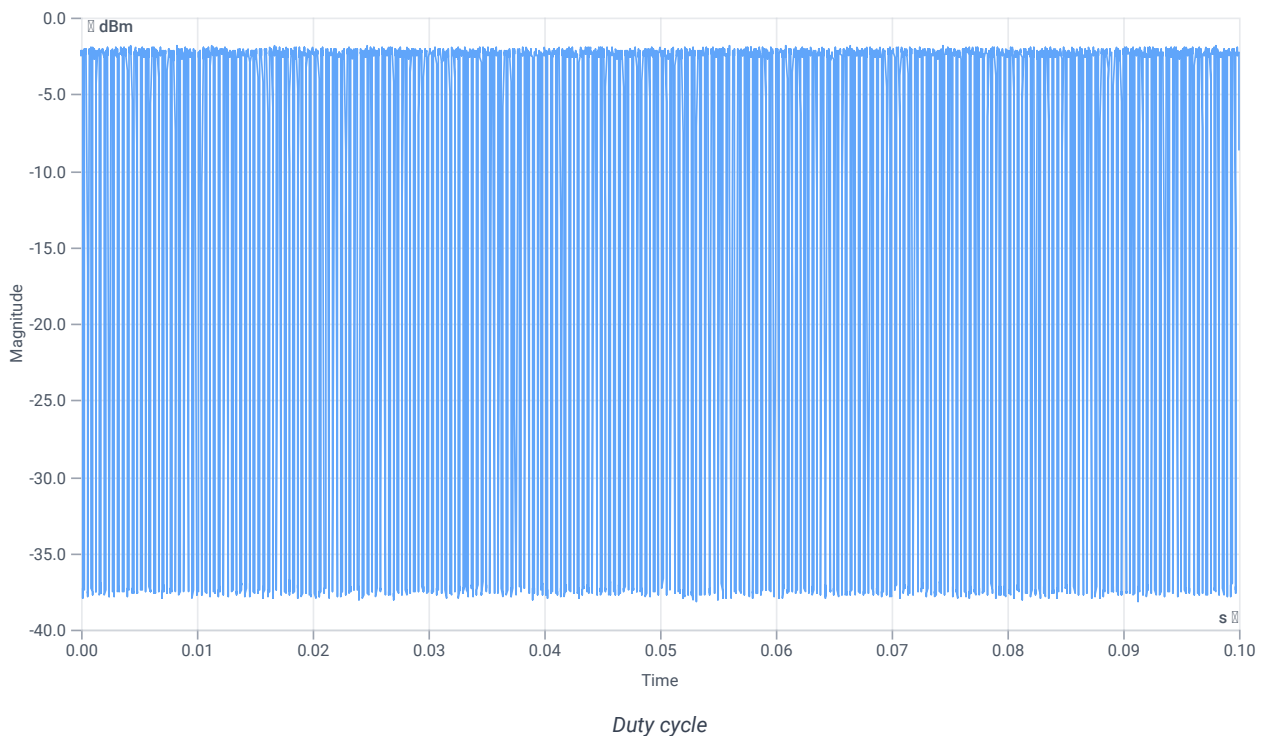
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-1.53	dBm	INFO
Ref. frequency	--	--	5246.980	MHz	INFO

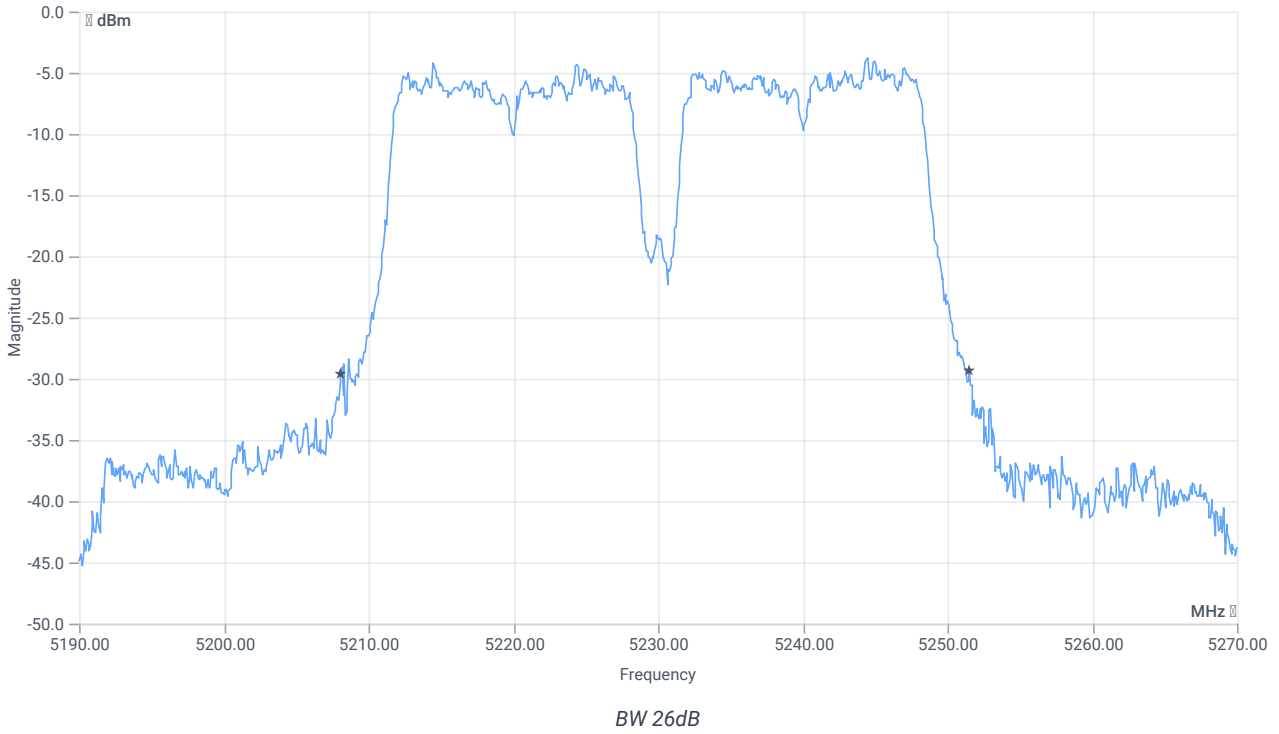
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 265					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



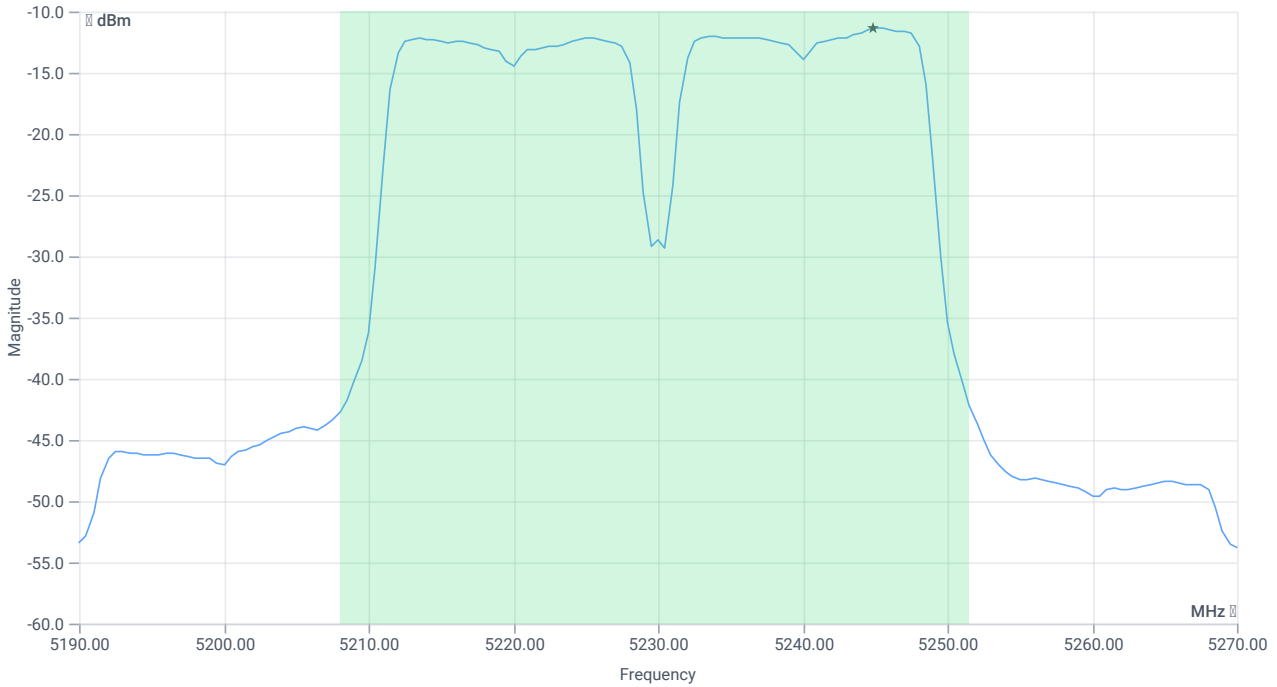
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	43.44	MHz	INFO
T1 26dB	---	---	5208.0800	MHz	INFO
T2 26dB	---	---	5251.5200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.47 9.95 15
Start [MHz] Stop [MHz]	5190.000 5270.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.52	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	5.79	dBm	PASS
Limit: 11 dBm + 10 log 43.44					
Max output power DC corrected	--	27.38	5.79	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-11.34	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-8.07	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

References

TC start	26.01.2024 17:35:05
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5230
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5190 MHz

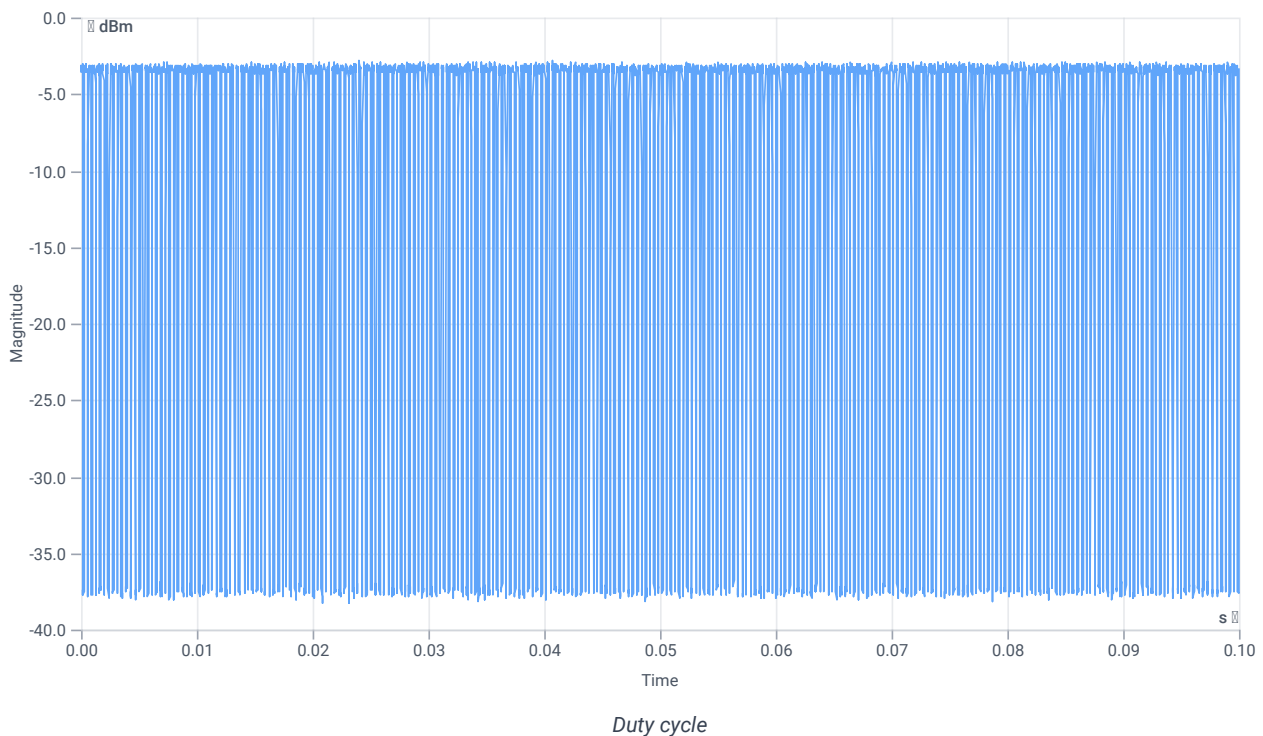
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-1.82	dBm	INFO
Ref. frequency	--	--	5205.580	MHz	INFO

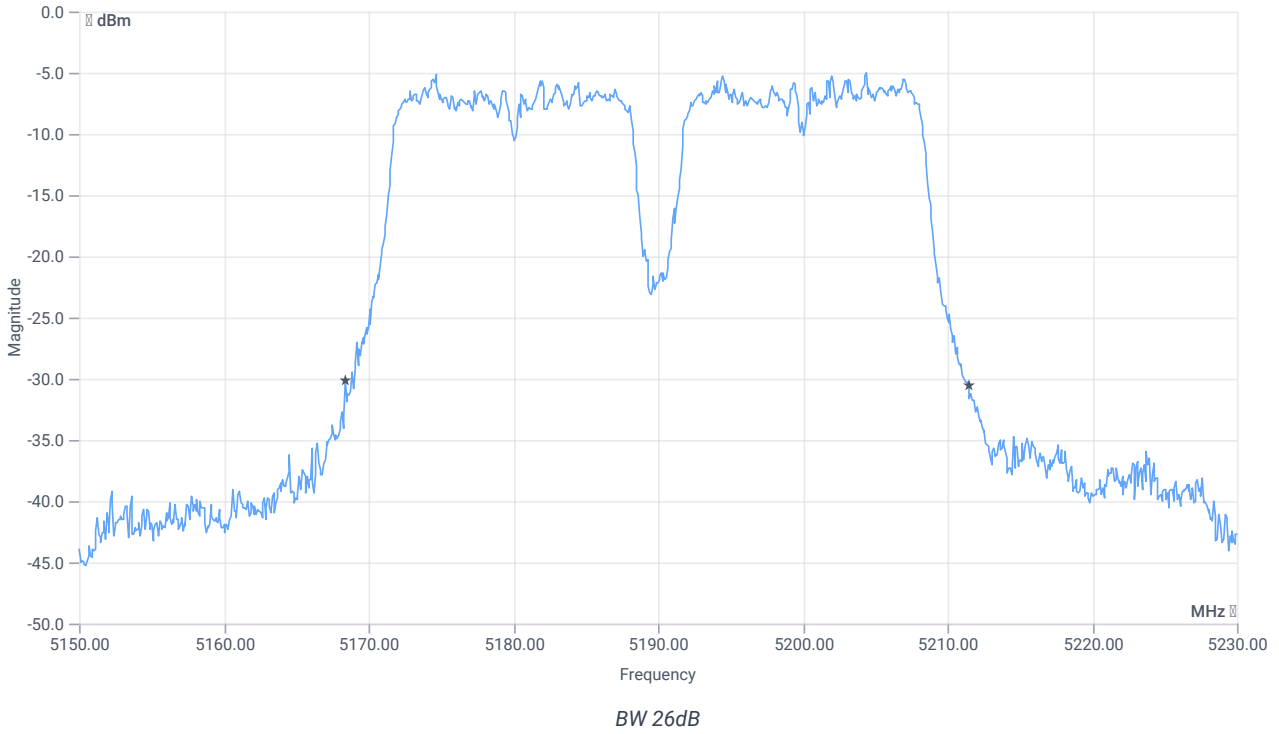
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 267					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



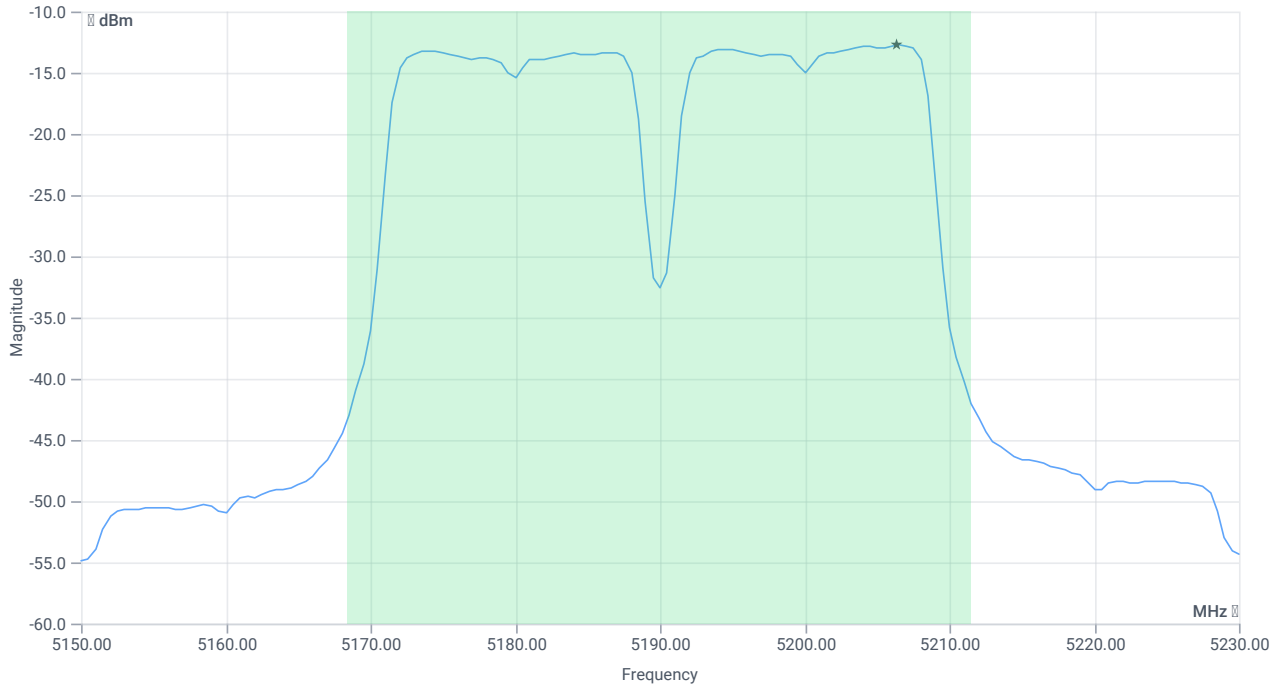
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	43.04	MHz	INFO
T1 26dB	---	---	5168.4000	MHz	INFO
T2 26dB	---	---	5211.4400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.18 10.04 15
Start [MHz] Stop [MHz]	5150.000 5230.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	1.43	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	4.7	dBm	PASS
Limit: 11 dBm + 10 log 43.04					
Max output power DC corrected	--	27.34	4.7	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-12.69	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-9.42	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-1

References

TC start	26.01.2024 17:30:53
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5190
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5230
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5190 MHz

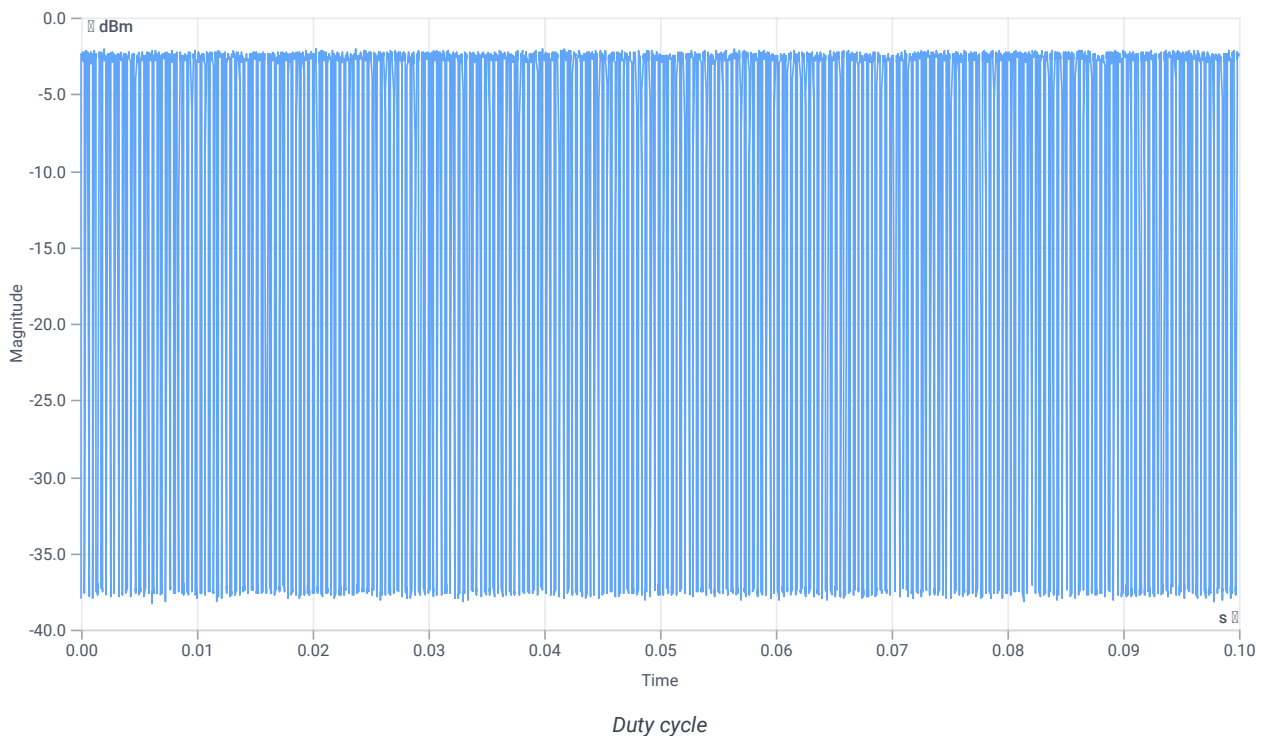
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-1.94	dBm	INFO
Ref. frequency	--	--	5194.200	MHz	INFO

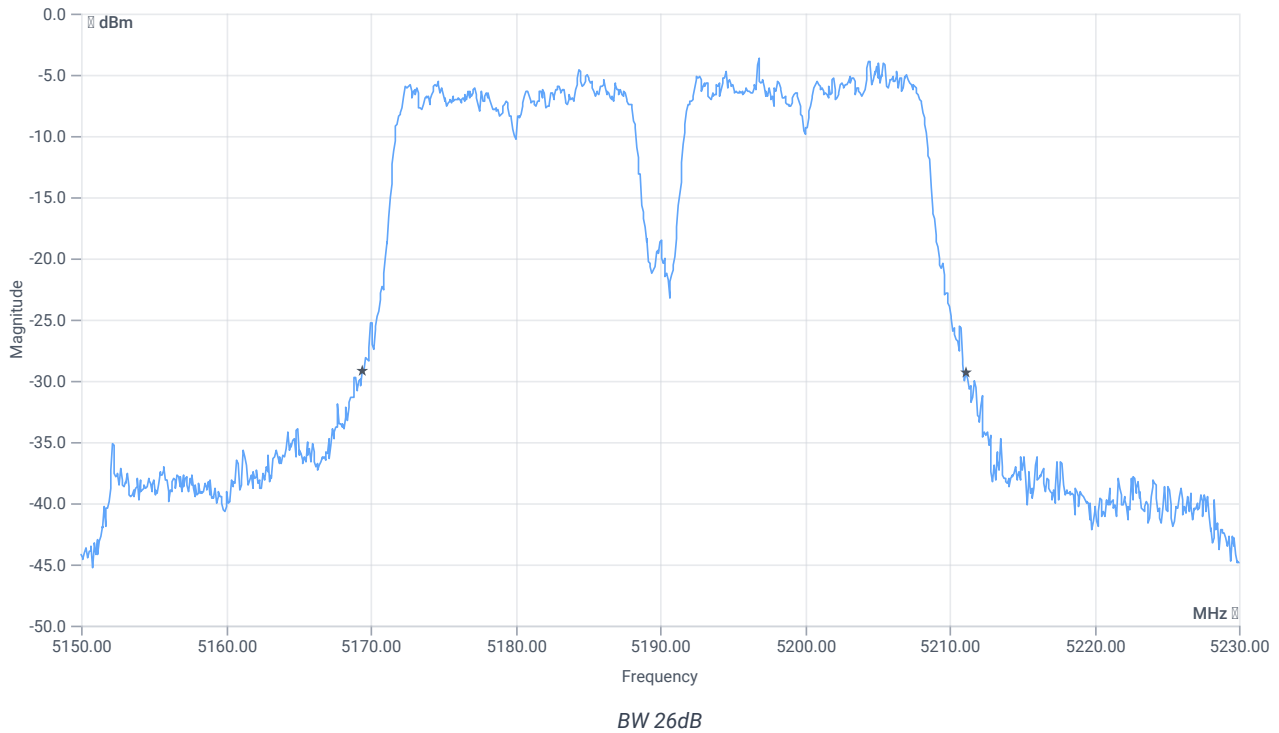
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 265					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



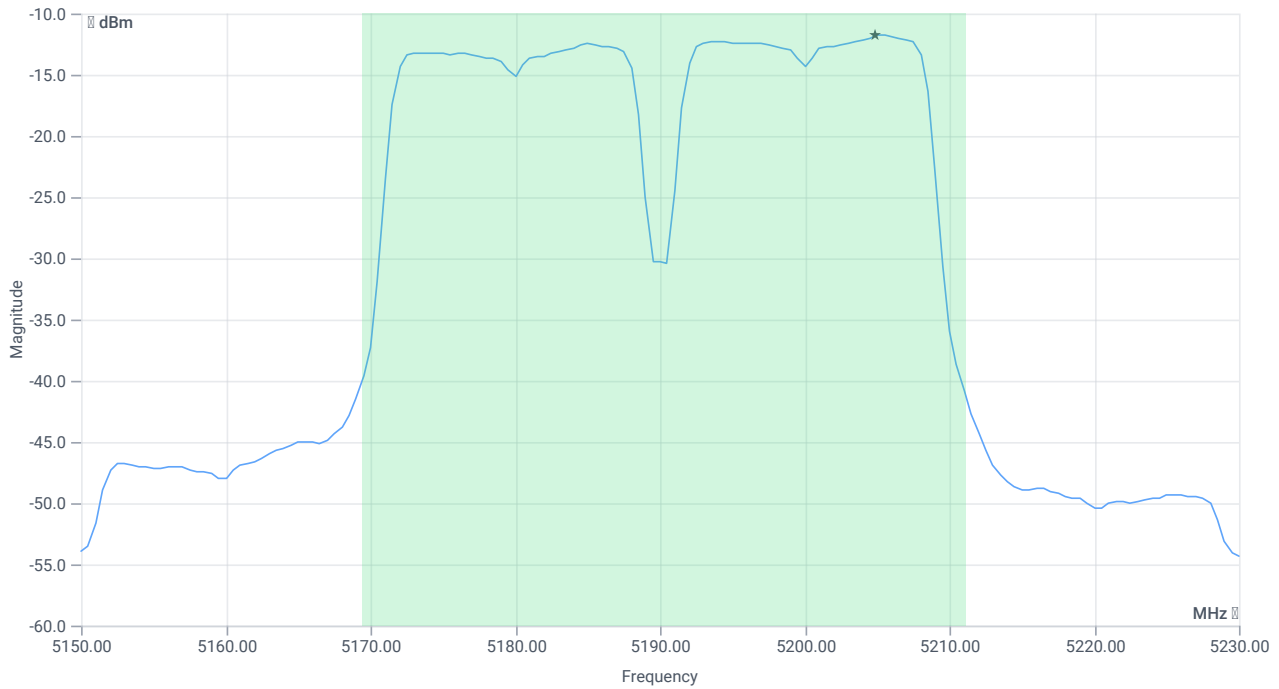
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.76	MHz	INFO
T1 26dB	---	---	5169.4400	MHz	INFO
T2 26dB	---	---	5211.2000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.06 10.02 15
Start [MHz] Stop [MHz]	5150.000 5230.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.06	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	5.33	dBm	PASS
Limit: 11 dBm + 10 log 41.76					
Max output power DC corrected	--	27.21	5.33	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-11.73	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-8.46	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:18:37
Ambit temp [°C] humidity [rel%]	26.9 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5825 MHz

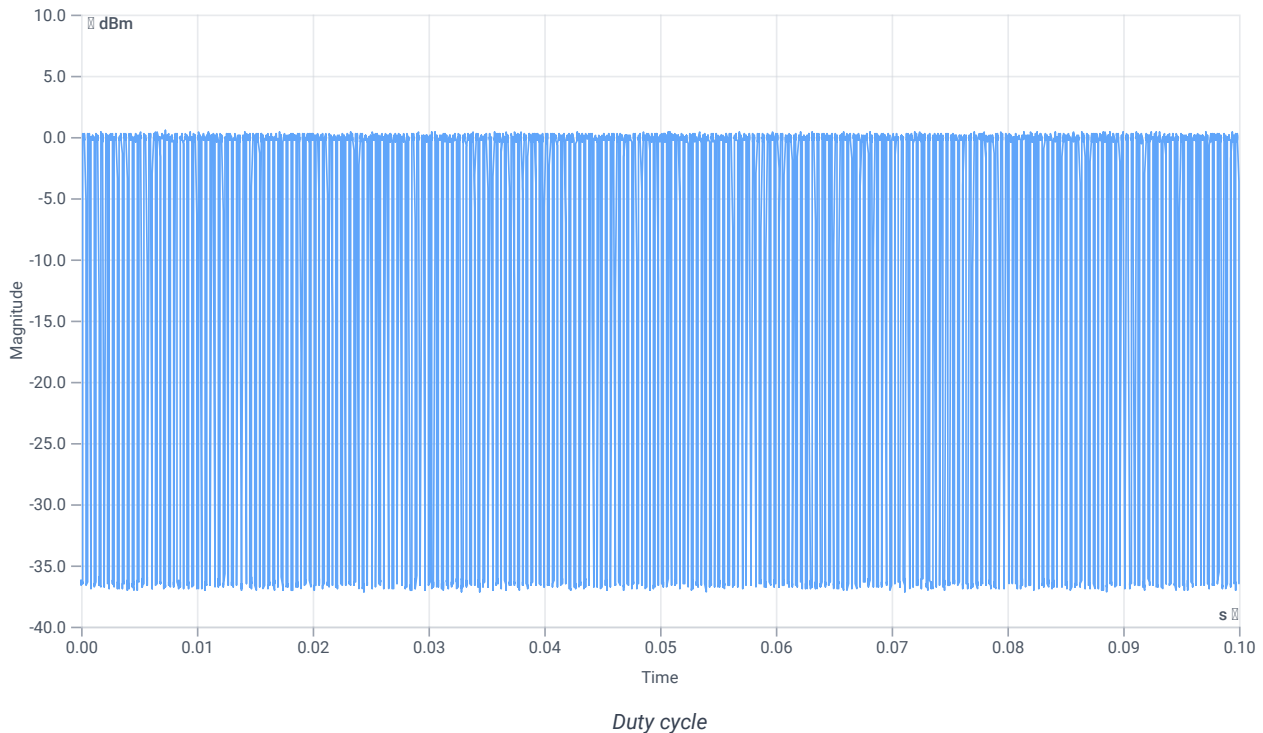
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.76	dBm	INFO
Ref. frequency	--	--	5830.390	MHz	INFO

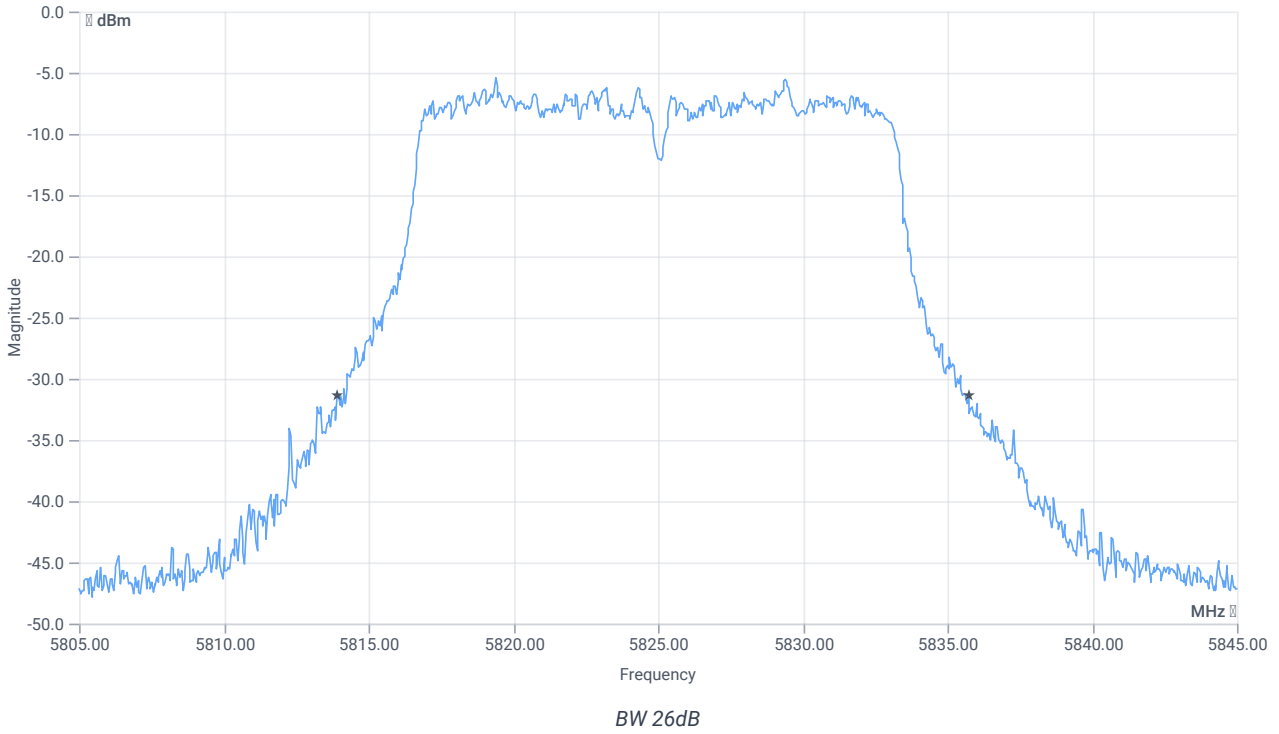
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 257					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.4	--	INFO
Duty cycle min	--	--	3.979	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.3	ms	INFO



Evaluation bandwidth



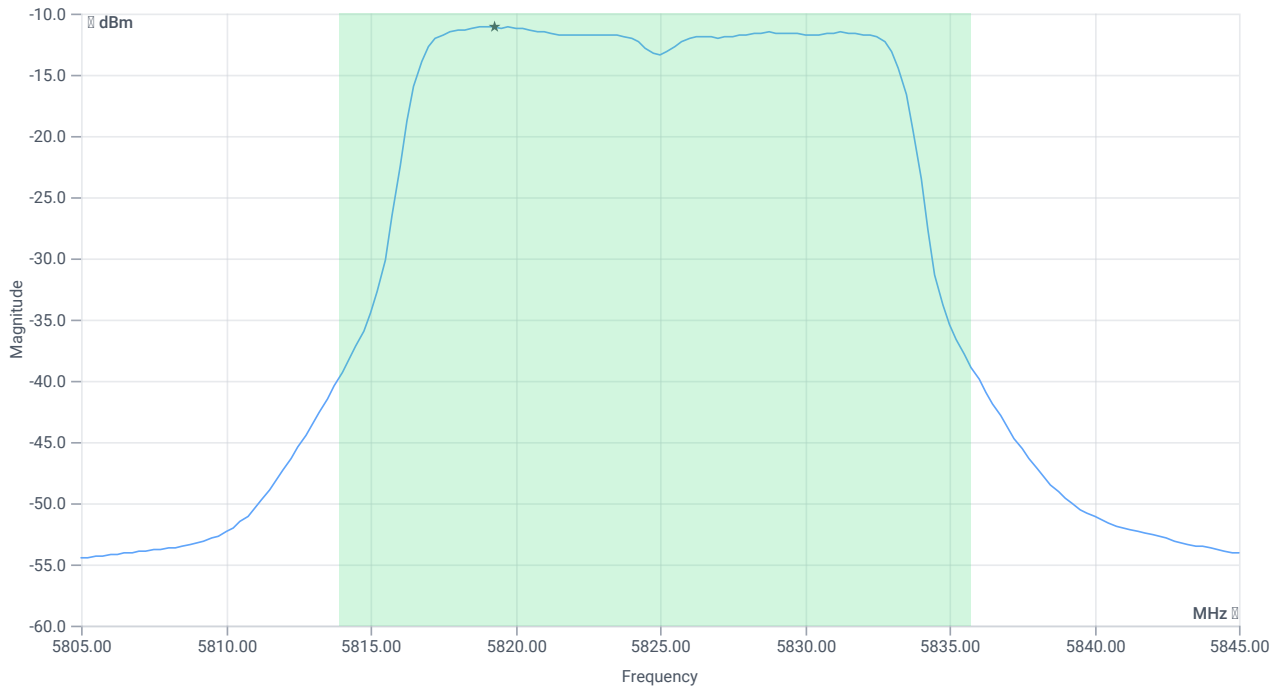
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.8	MHz	INFO
T1 26dB	---	---	5813.9200	MHz	INFO
T2 26dB	---	---	5835.7200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.24 10.44 15
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

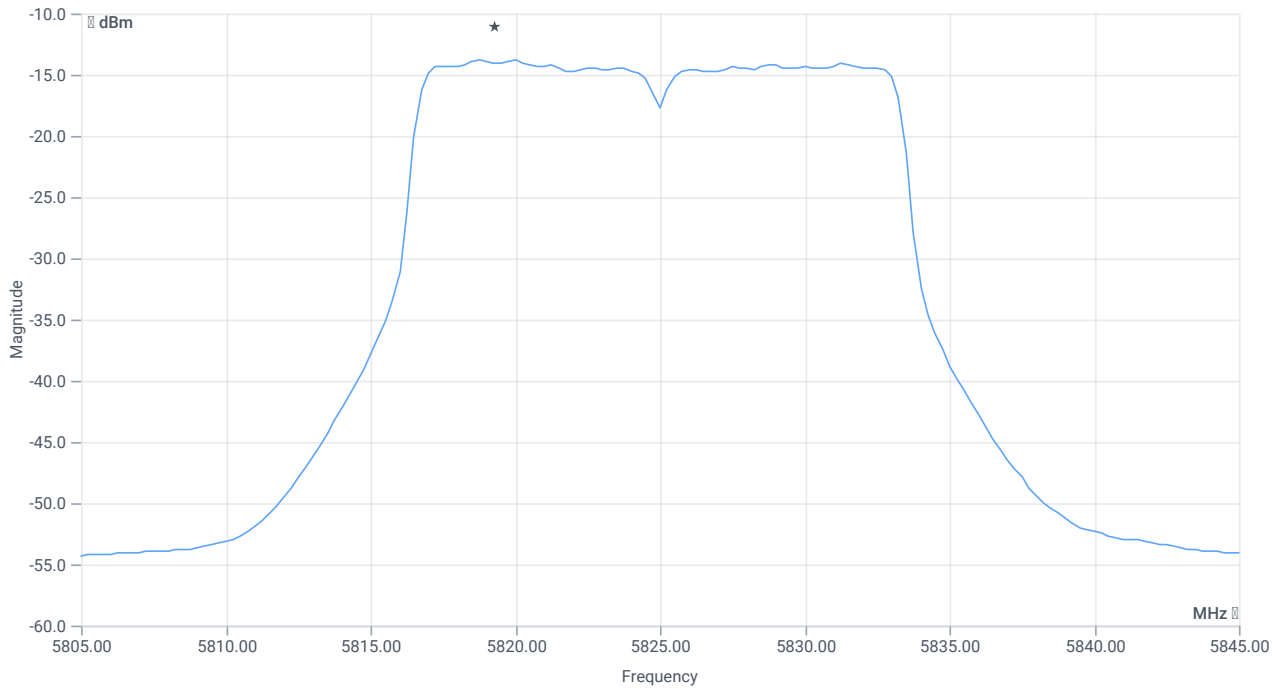
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	0.19	dBm	INFO
Duty cycle correction	--	--	3.98	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	4.17	dBm	PASS
Limit: 11 dBm + 10 log 21.8					
Max output power DC corrected	--	24.38	4.17	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.24 10.44 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-13.72	dBm/0.5MHz	INFO
Duty cycle correction	--	--	3.98	dB	INFO
Power spectral density DC corrected	--	30	-9.74	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:11:20
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5825 MHz

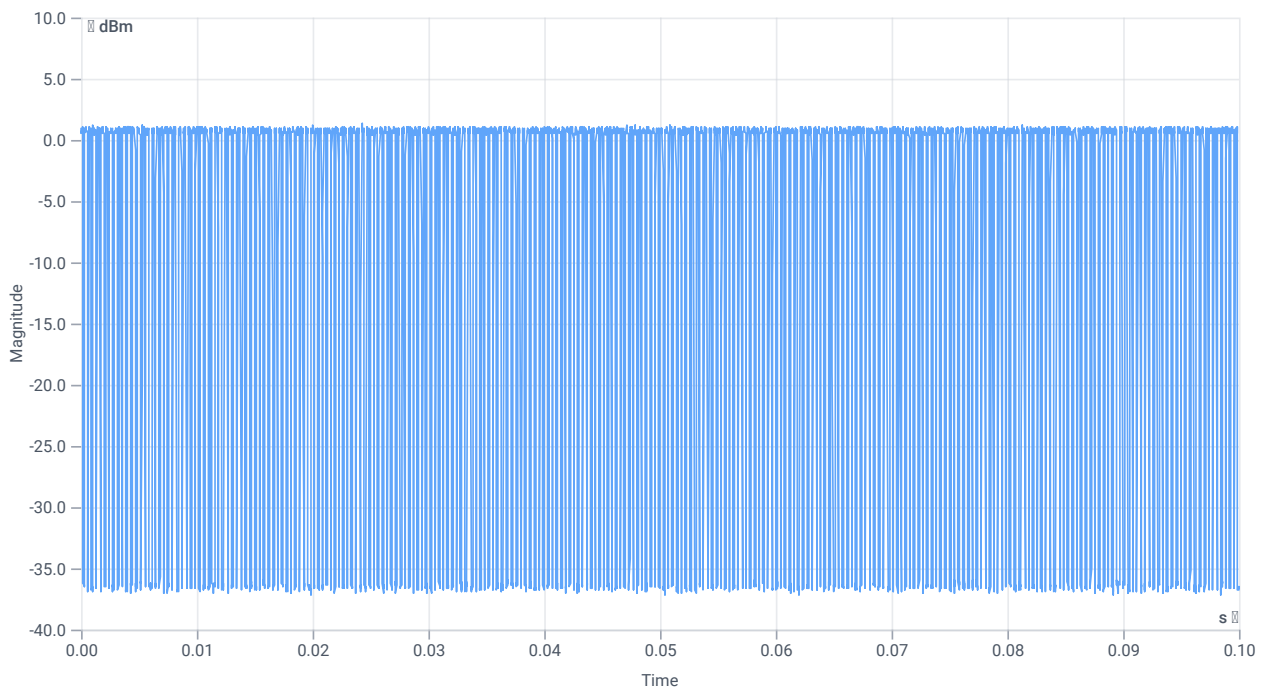
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.59	dBm	INFO
Ref. frequency	--	--	5819.810	MHz	INFO

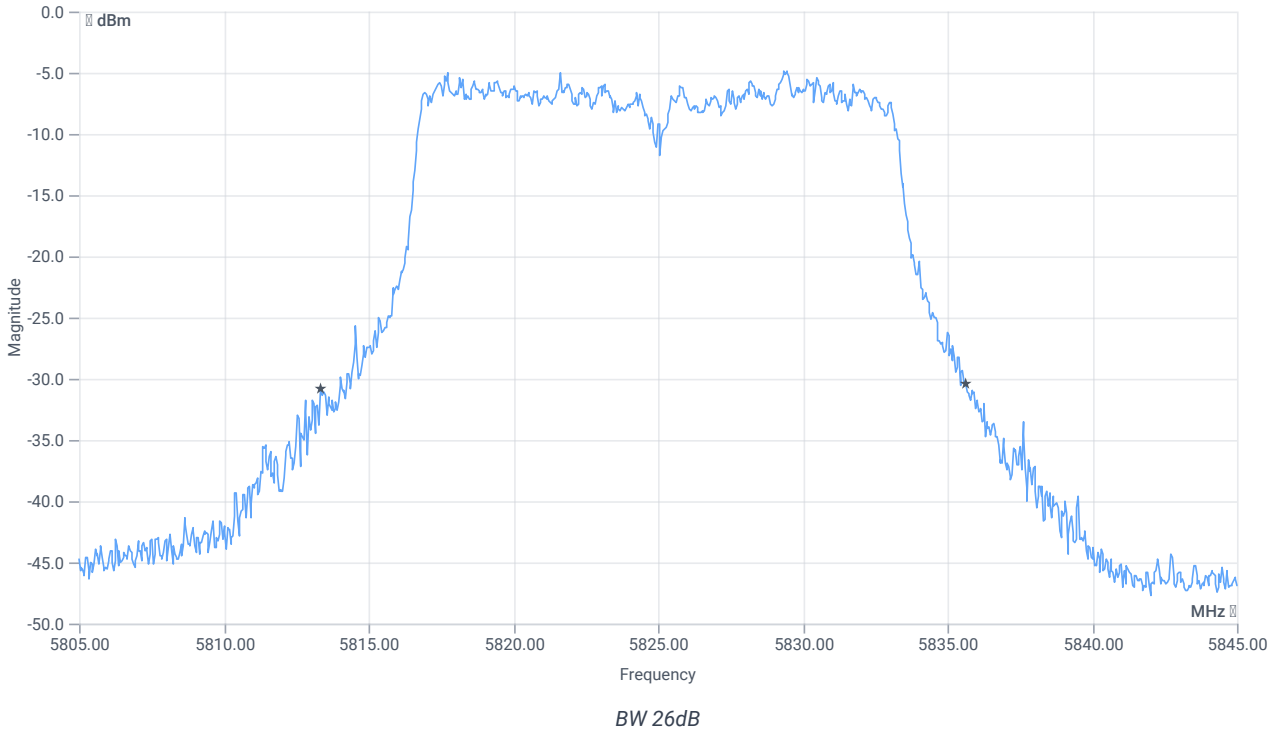
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 260					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.4	--	INFO
Duty cycle min	--	--	3.979	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.3	ms	INFO



Evaluation bandwidth



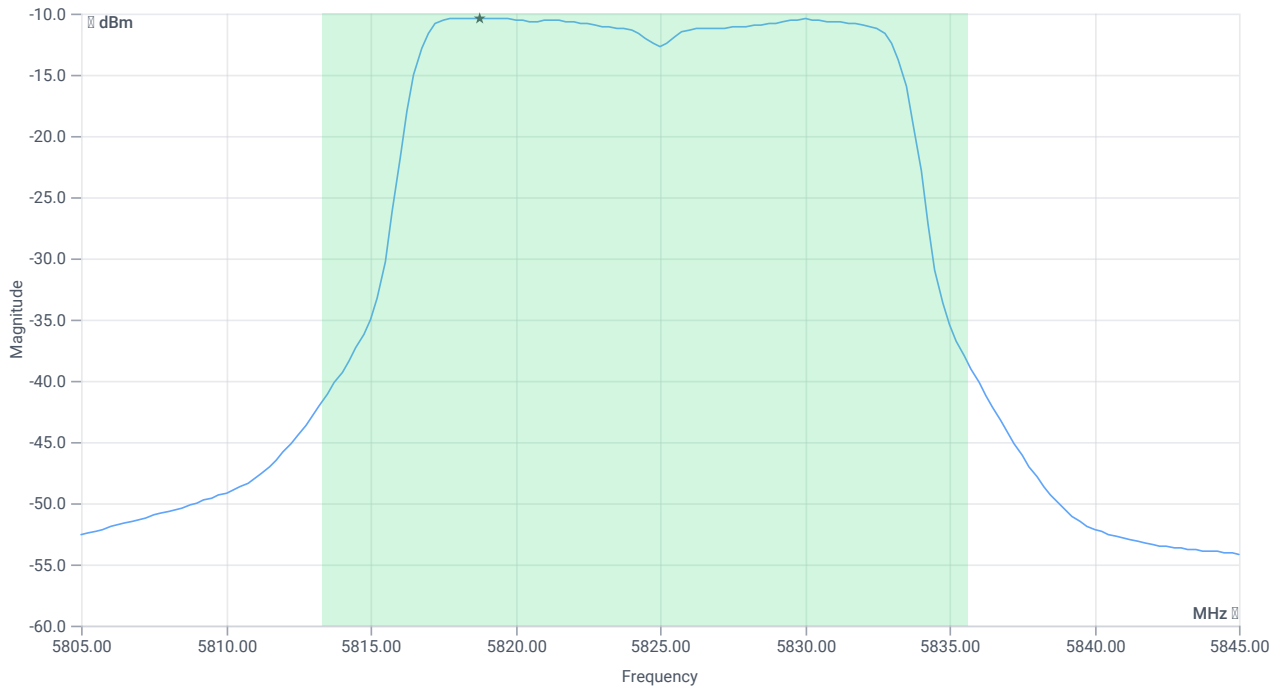
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.32	MHz	INFO
T1 26dB	---	---	5813.3200	MHz	INFO
T2 26dB	---	---	5835.6400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.41 10.45 15
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

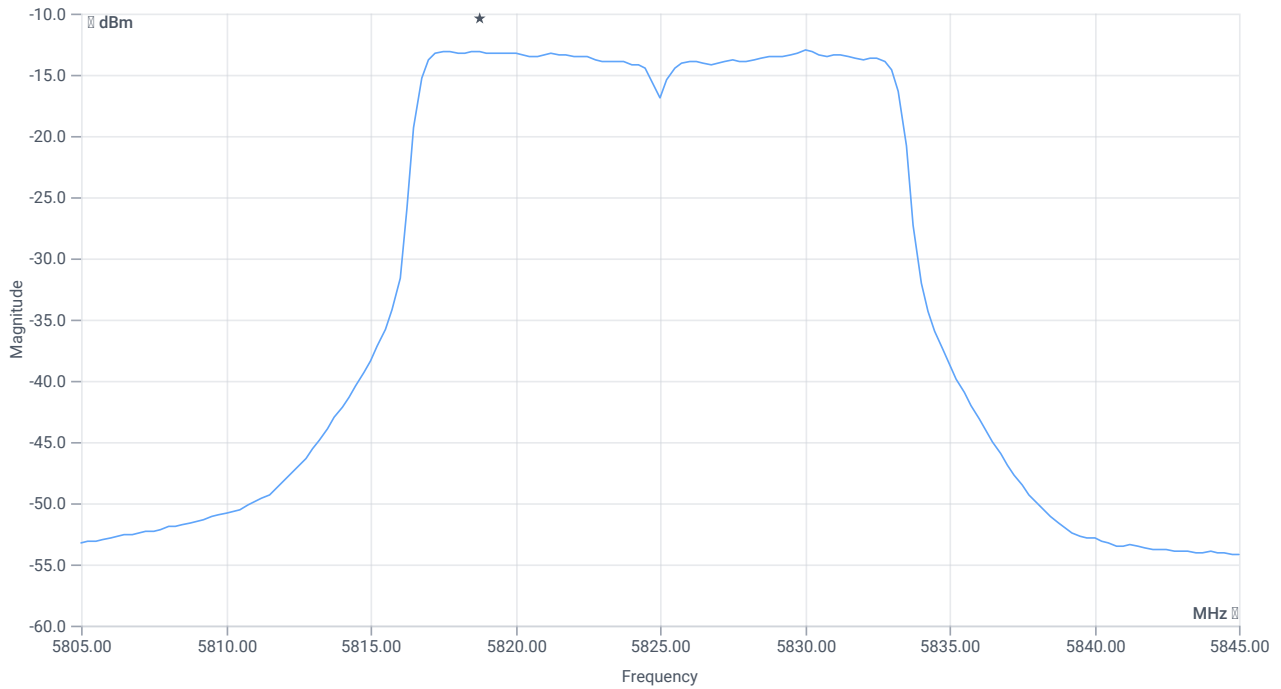
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	1.03	dBm	INFO
Duty cycle correction	--	--	3.98	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	5.01	dBm	PASS
Limit: 11 dBm + 10 log 22.32					
Max output power DC corrected	--	24.49	5.01	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.41 10.45 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-13.01	dBm/0.5MHz	INFO
Duty cycle correction	--	--	3.98	dB	INFO
Power spectral density DC corrected	--	30	-9.03	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:02:06
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5785 MHz

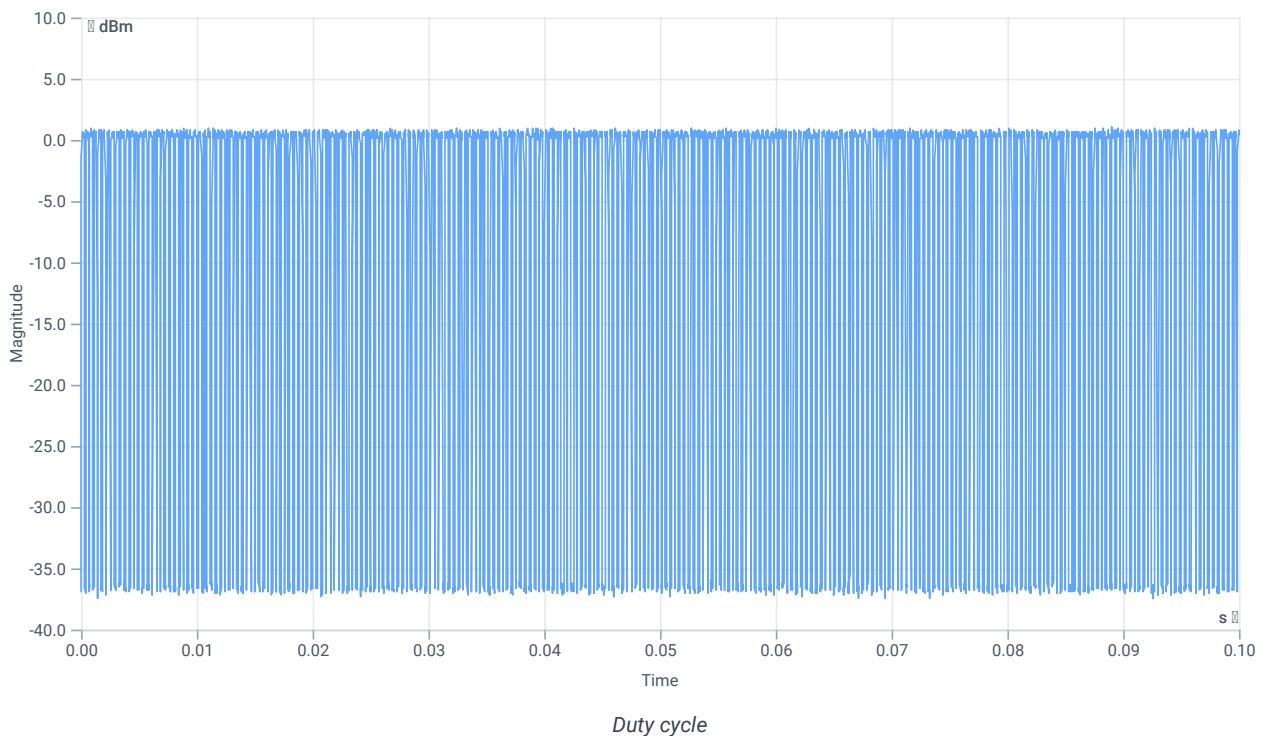
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.01	dBm	INFO
Ref. frequency	--	--	5779.410	MHz	INFO

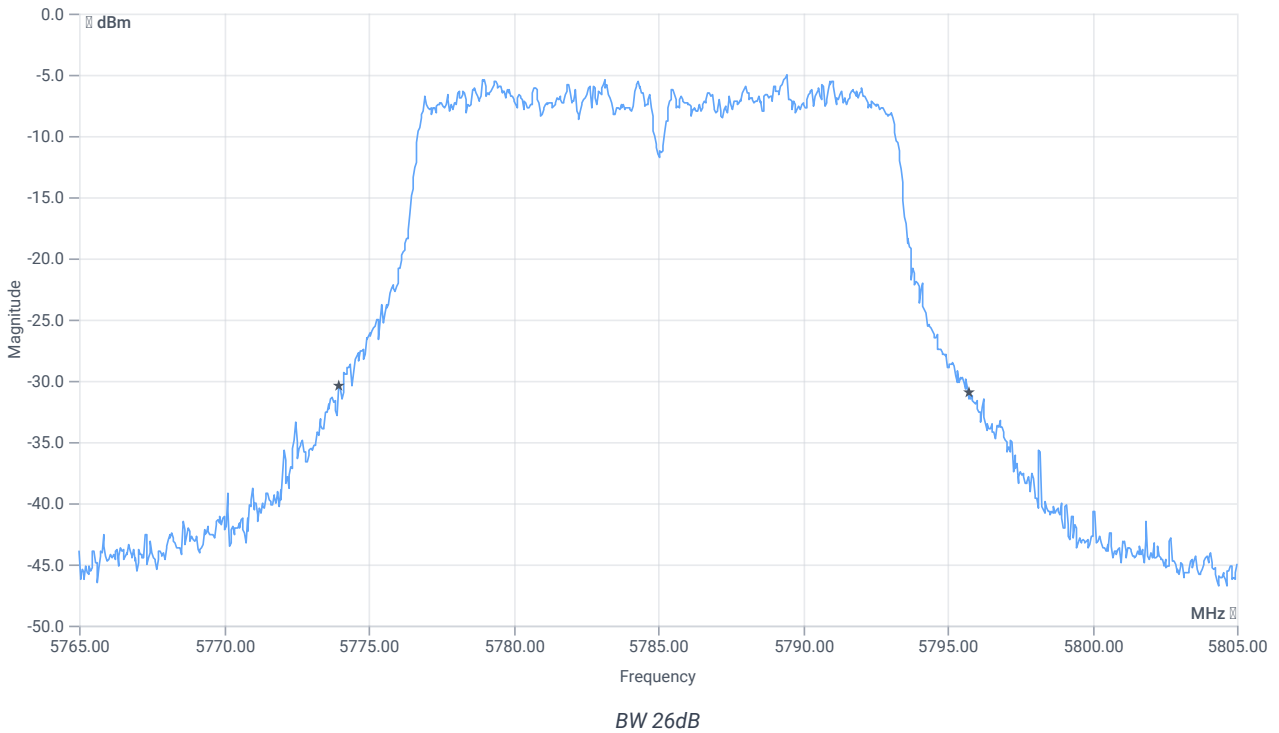
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 254					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.421	--	INFO
Duty cycle min	--	--	3.757	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.3	ms	INFO



Evaluation bandwidth



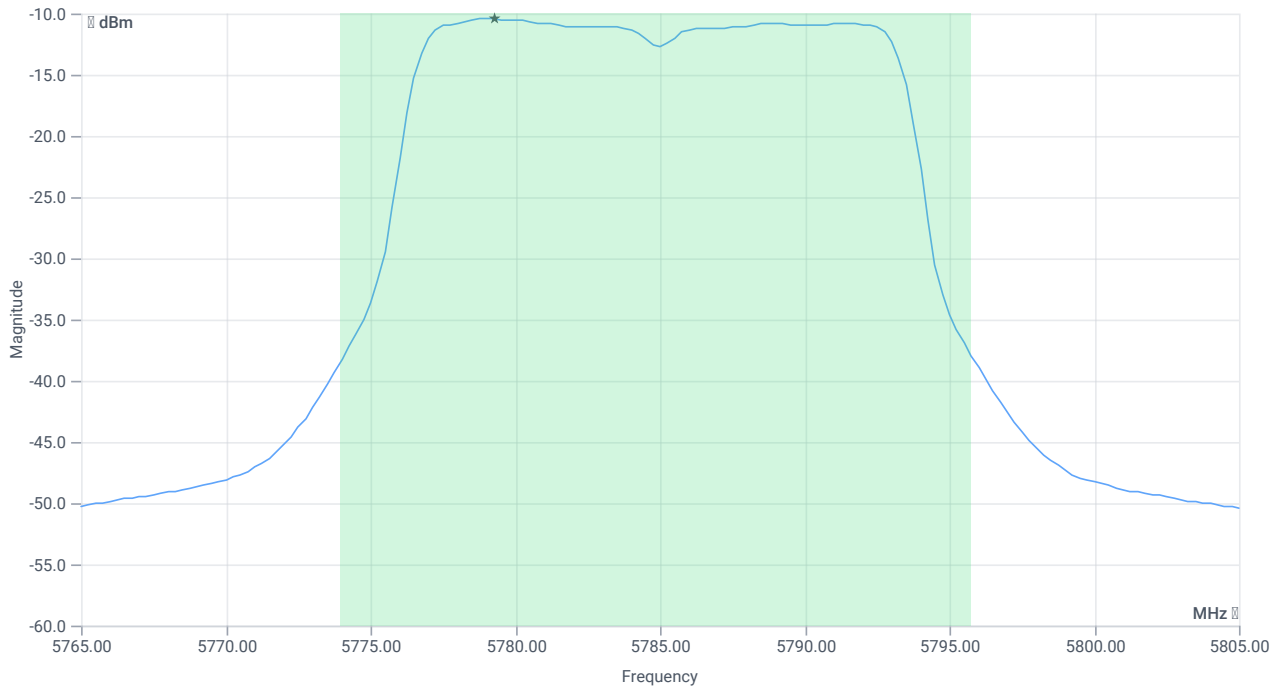
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.8	MHz	INFO
T1 26dB	---	---	5773.9600	MHz	INFO
T2 26dB	---	---	5795.7600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.99 10.41 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

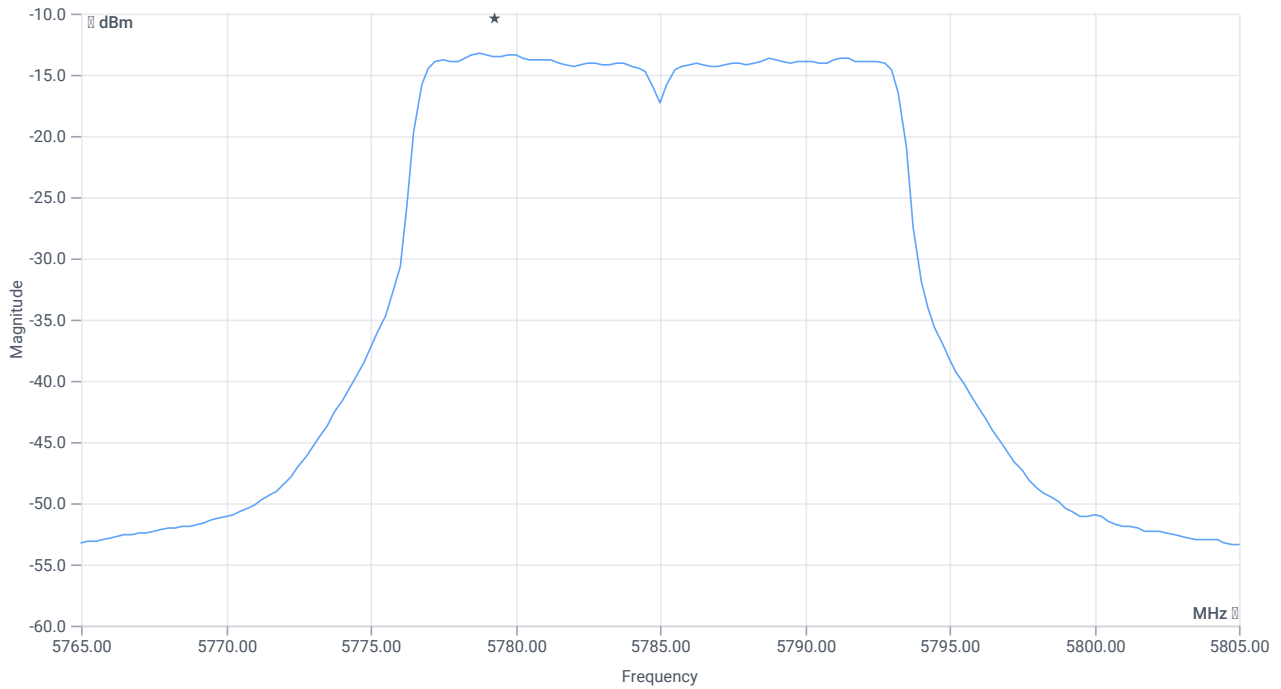
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	0.9	dBm	INFO
Duty cycle correction	--	--	3.76	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	4.66	dBm	PASS
Limit: 11 dBm + 10 log 21.8					
Max output power DC corrected	--	24.38	4.66	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.99 10.41 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-13.29	dBm/0.5MHz	INFO
Duty cycle correction	--	--	3.76	dB	INFO
Power spectral density DC corrected	--	30	-9.53	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 16:54:41
Ambit temp [°C] humidity [rel%]	26.9 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5785 MHz

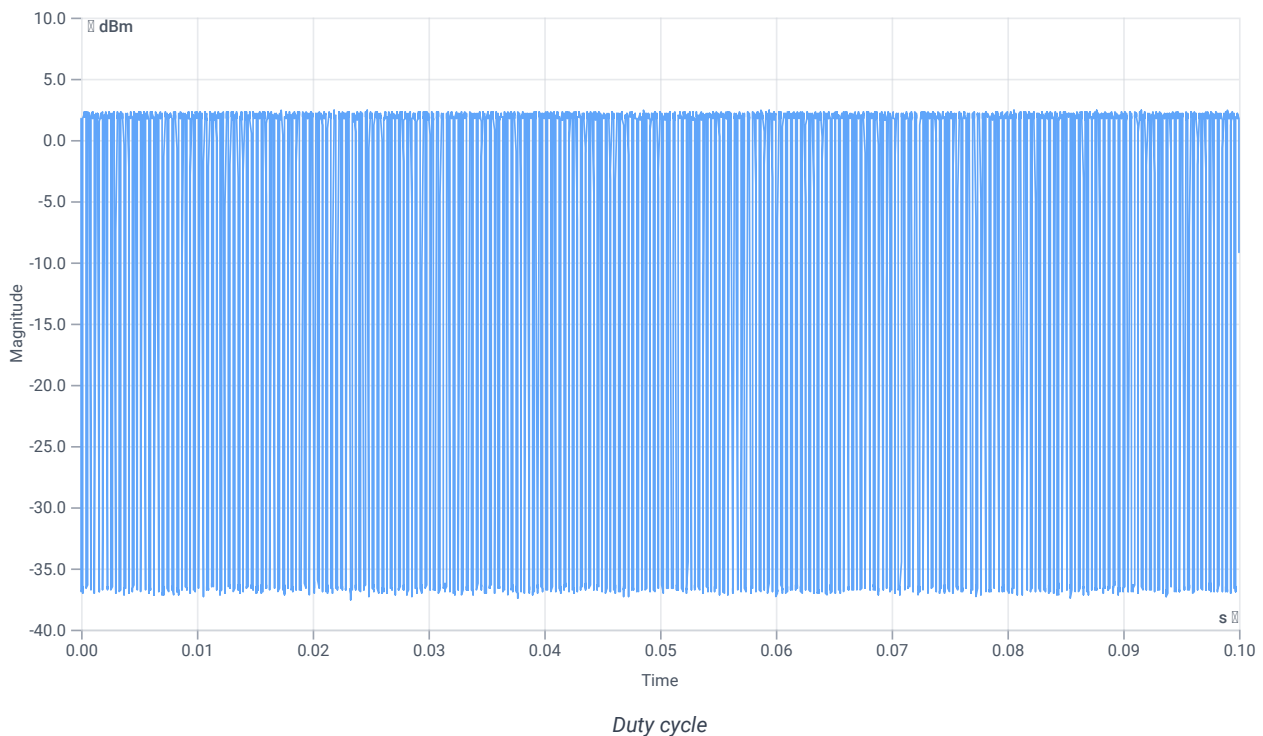
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.71	dBm	INFO
Ref. frequency	--	--	5781.000	MHz	INFO

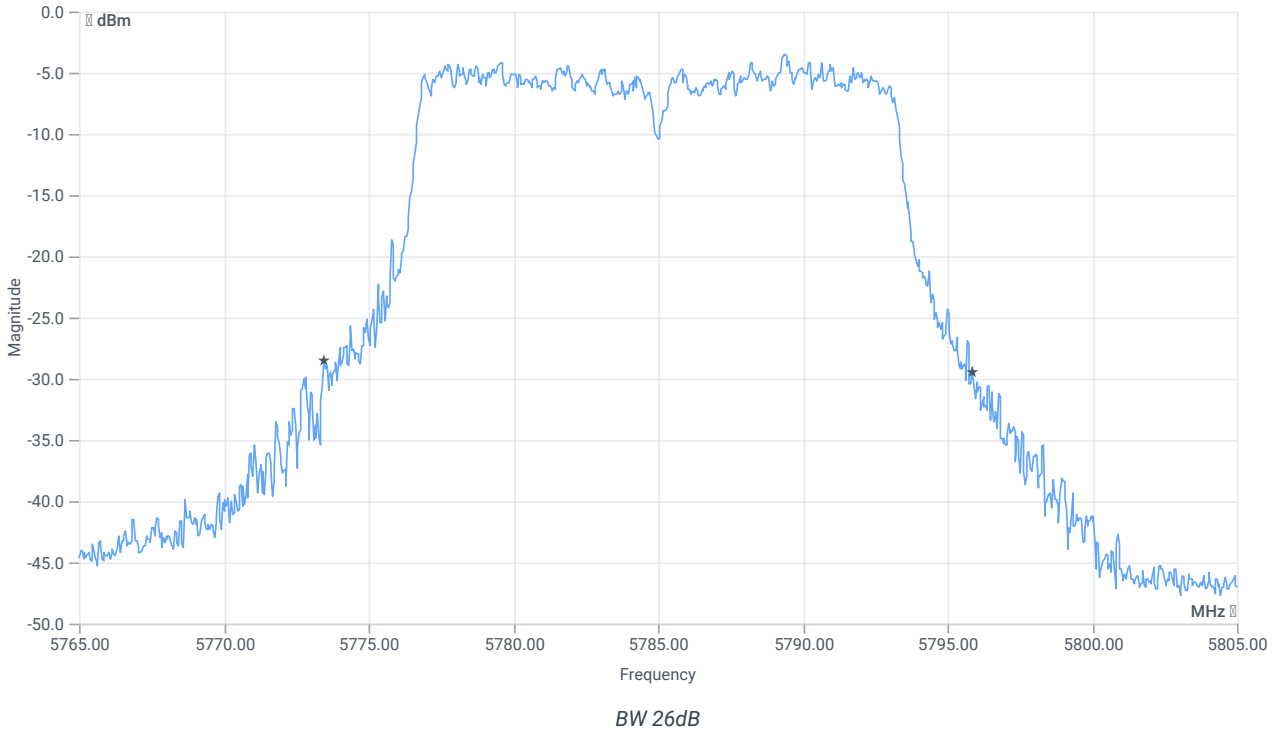
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 262					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.429	--	INFO
Duty cycle min	--	--	3.675	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.3	ms	INFO



Evaluation bandwidth



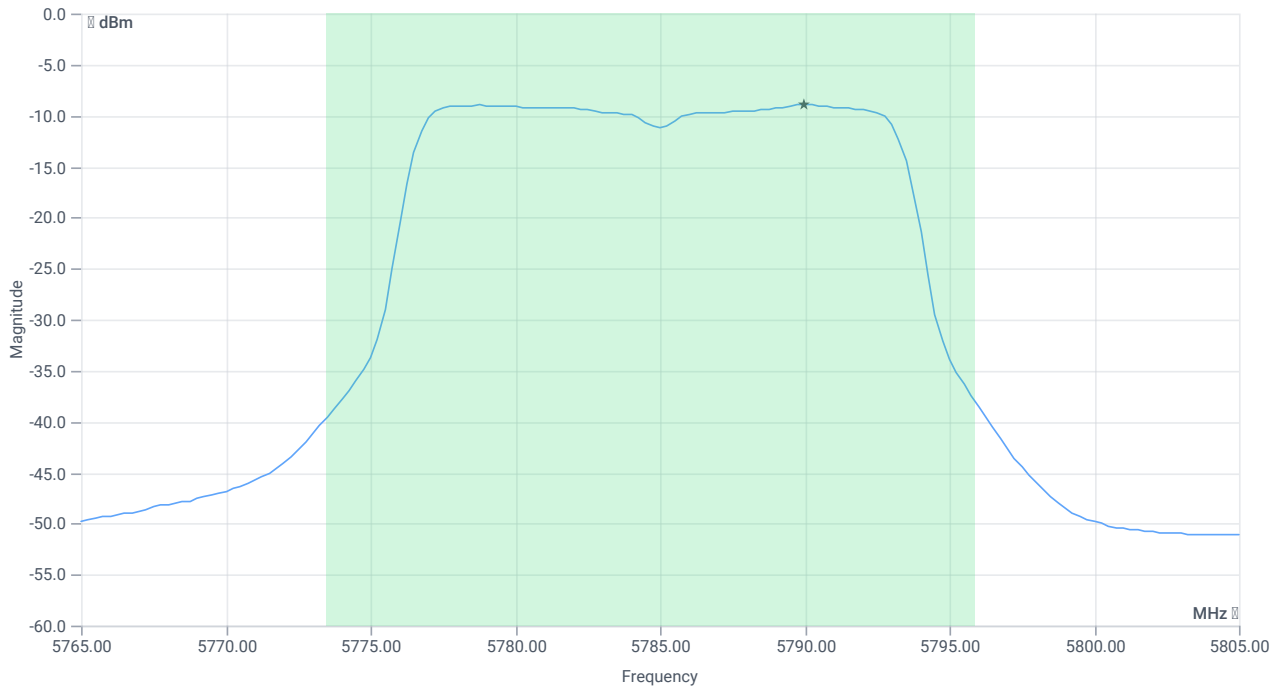
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.44	MHz	INFO
T1 26dB	---	---	5773.4400	MHz	INFO
T2 26dB	---	---	5795.8800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.71 10.38 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

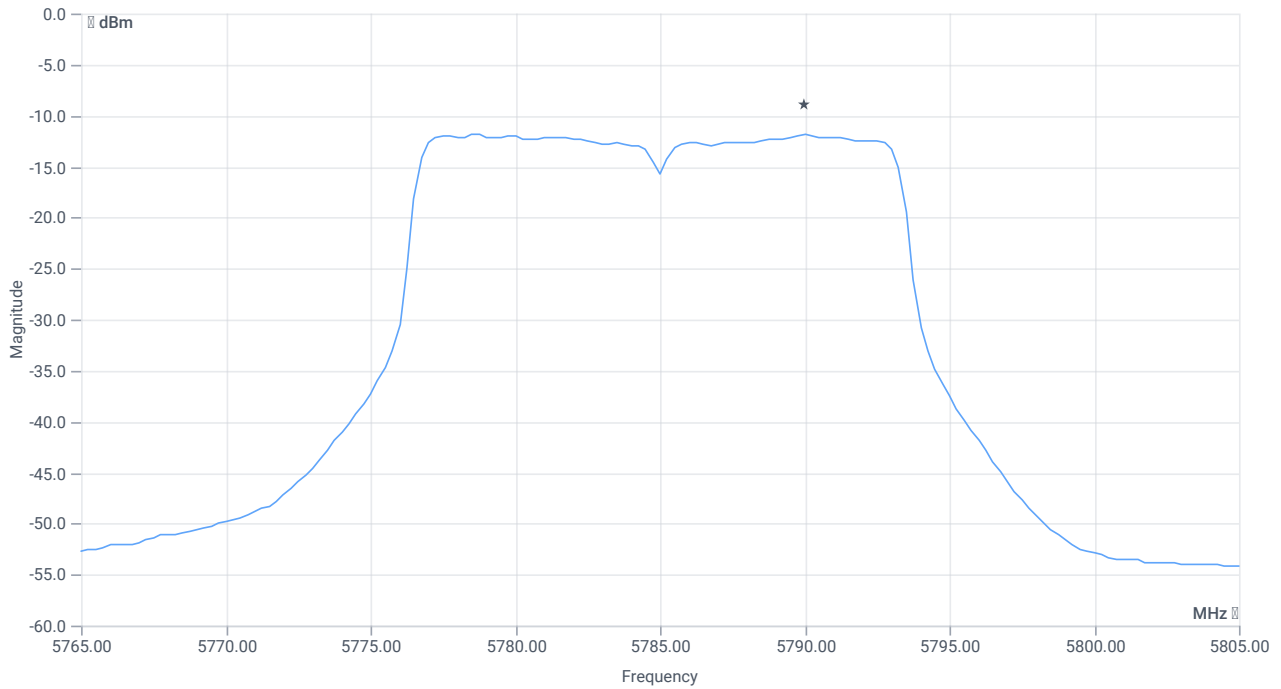
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.46	dBm	INFO
Duty cycle correction	--	--	3.68	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	6.14	dBm	PASS
Limit: 11 dBm + 10 log 22.44					
Max output power DC corrected	--	24.51	6.14	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.71 10.38 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-11.8	dBm/0.5MHz	INFO
Duty cycle correction	--	--	3.68	dB	INFO
Power spectral density DC corrected	--	30	-8.12	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 16:45:59
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5745 MHz

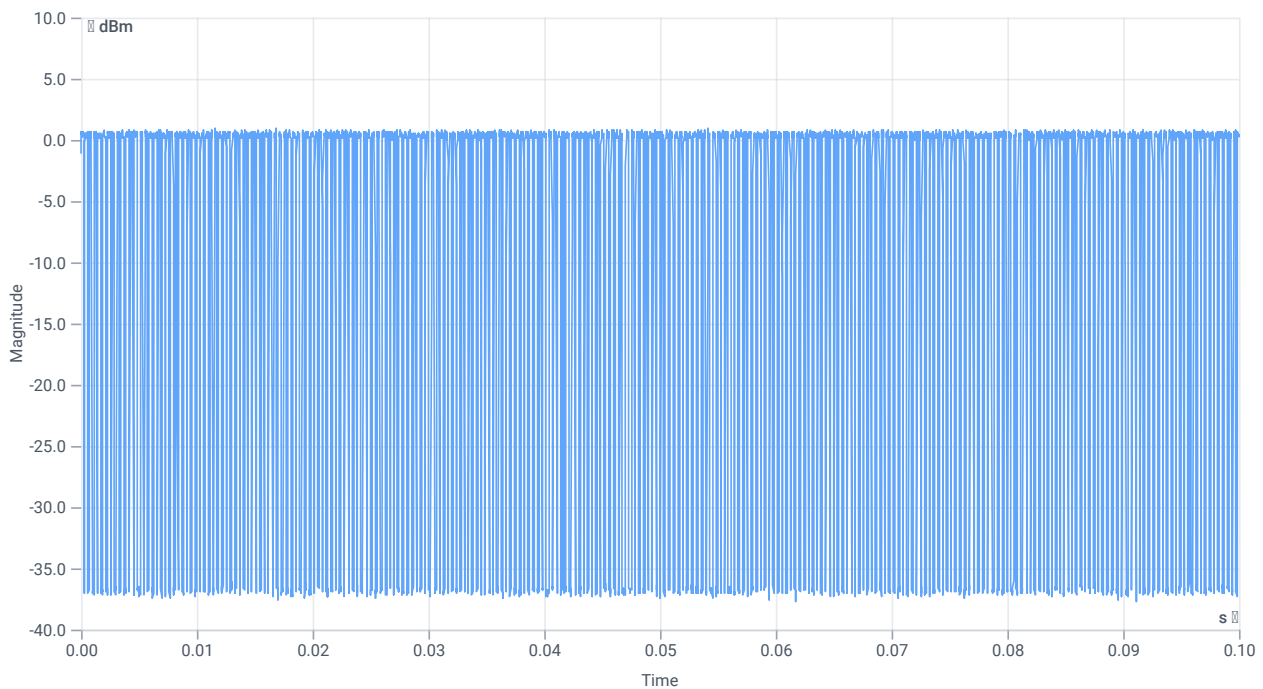
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.08	dBm	INFO
Ref. frequency	--	--	5739.410	MHz	INFO

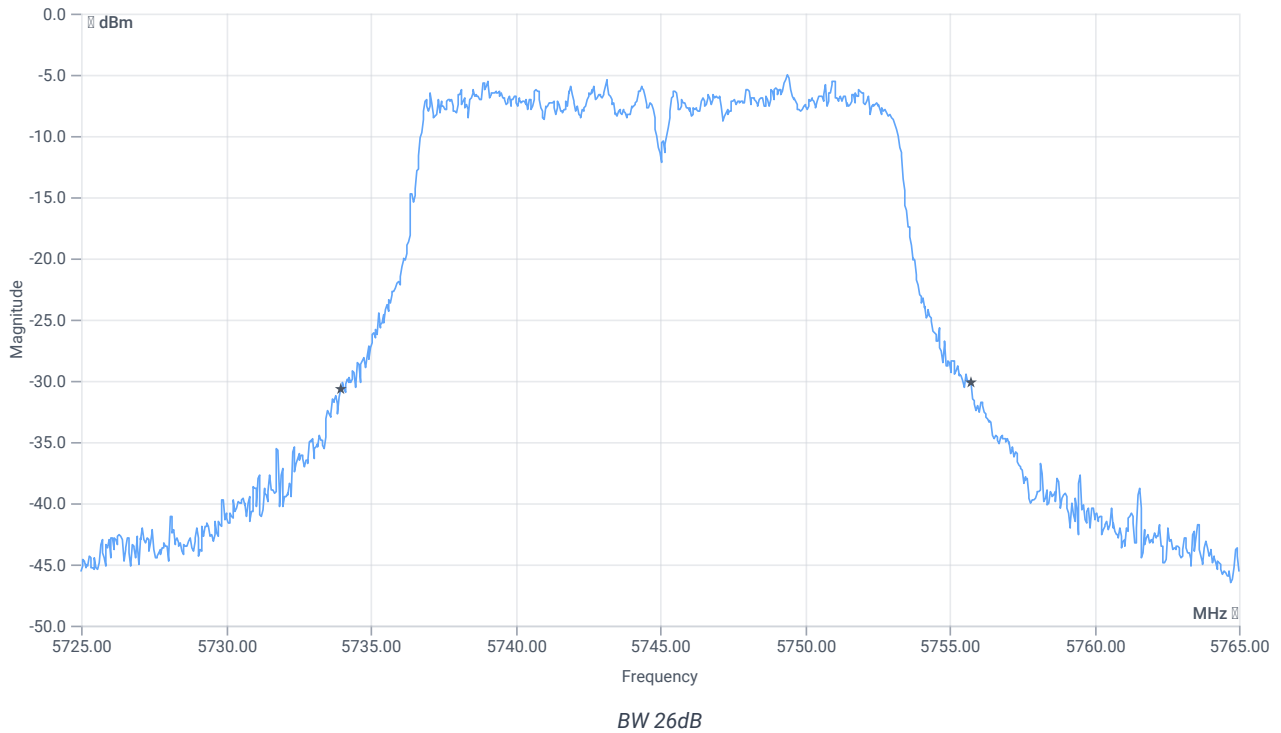
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 260					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.381	--	INFO
Duty cycle min	--	--	4.191	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.325	ms	INFO



Evaluation bandwidth



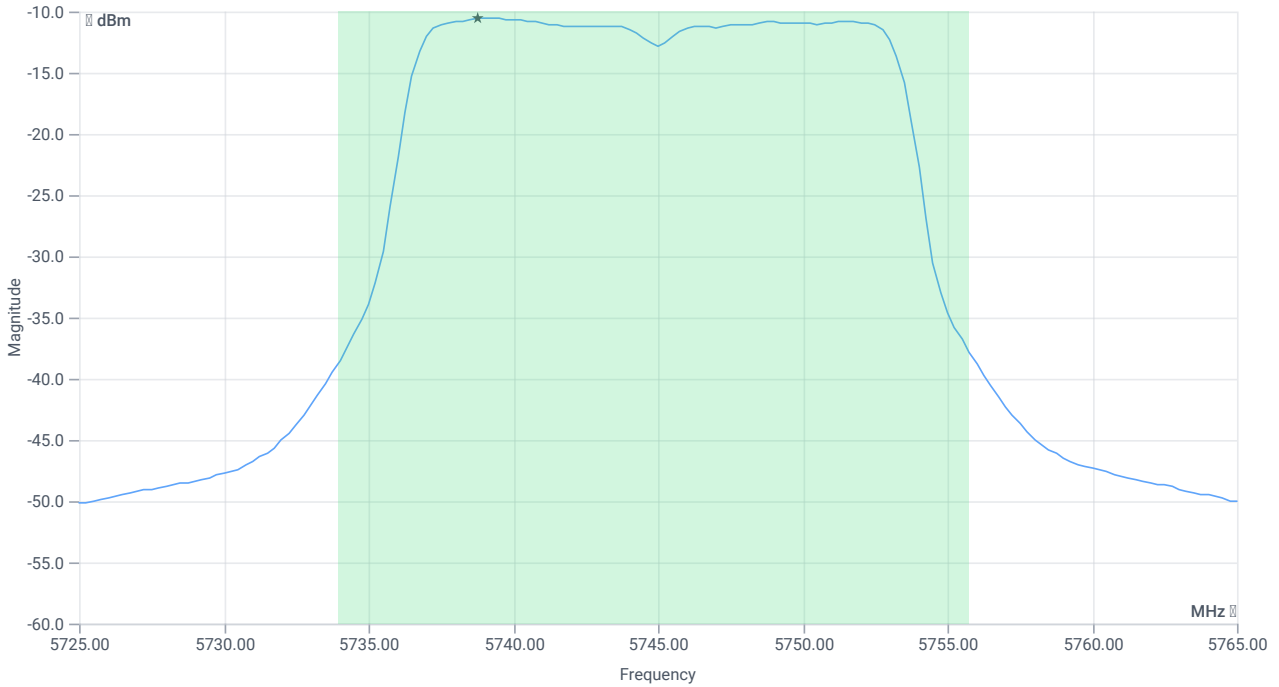
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.8	MHz	INFO
T1 26dB	---	---	5733.9600	MHz	INFO
T2 26dB	---	---	5755.7600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.92 10.38 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

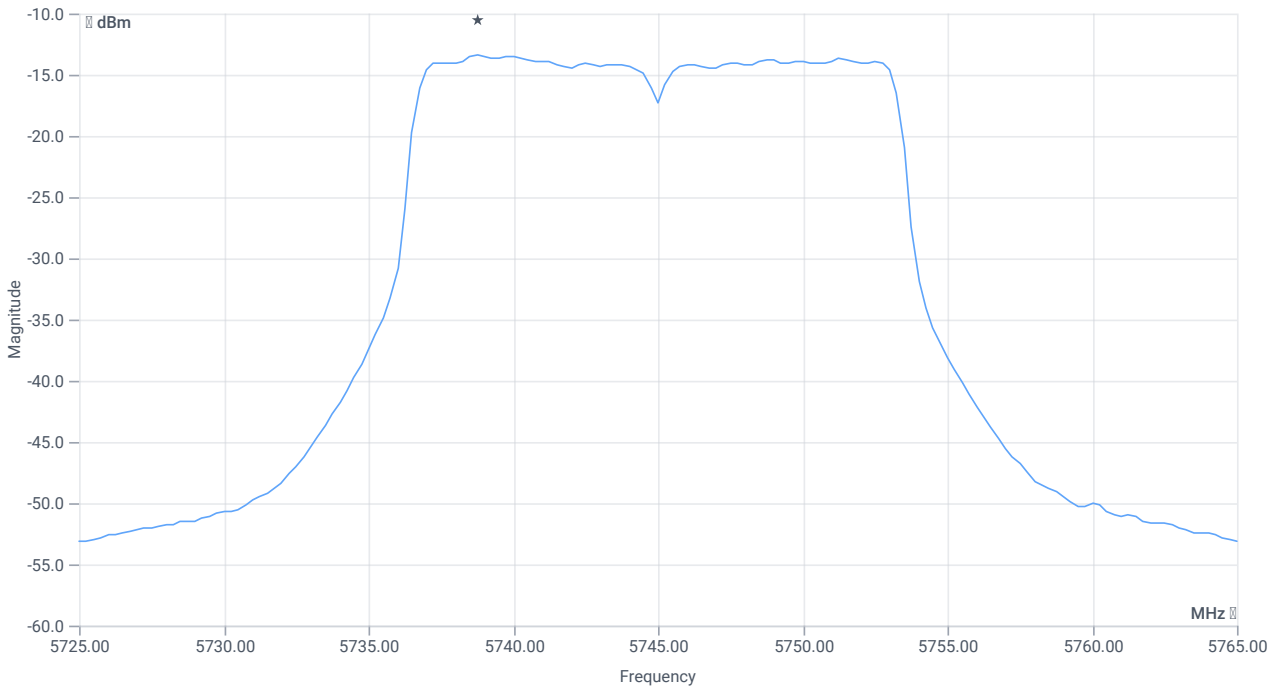
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	0.82	dBm	INFO
Duty cycle correction	--	--	4.19	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	5.01	dBm	PASS
Limit: 11 dBm + 10 log 21.8					
Max output power DC corrected	--	24.38	5.01	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.92 10.38 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-13.41	dBm/0.5MHz	INFO
Duty cycle correction	--	--	4.19	dB	INFO
Power spectral density DC corrected	--	30	-9.22	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 16:38:41
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5745 MHz

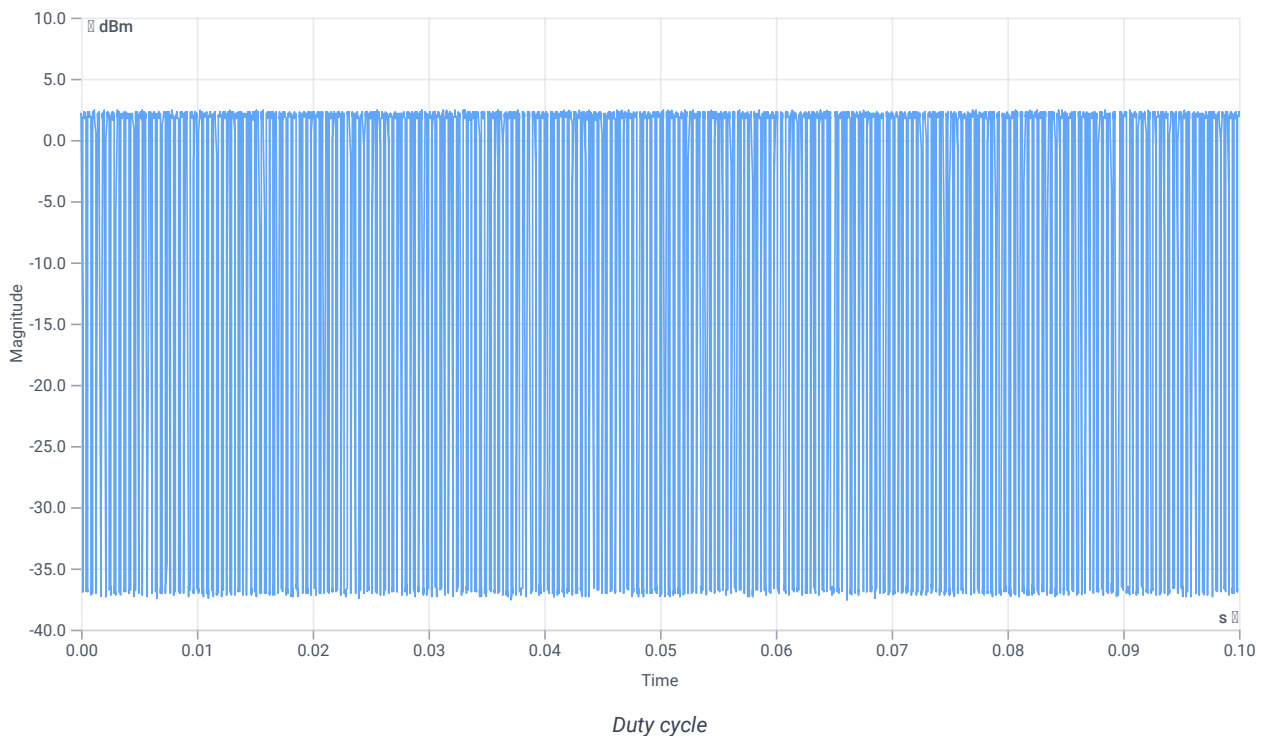
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.83	dBm	INFO
Ref. frequency	--	--	5741.000	MHz	INFO

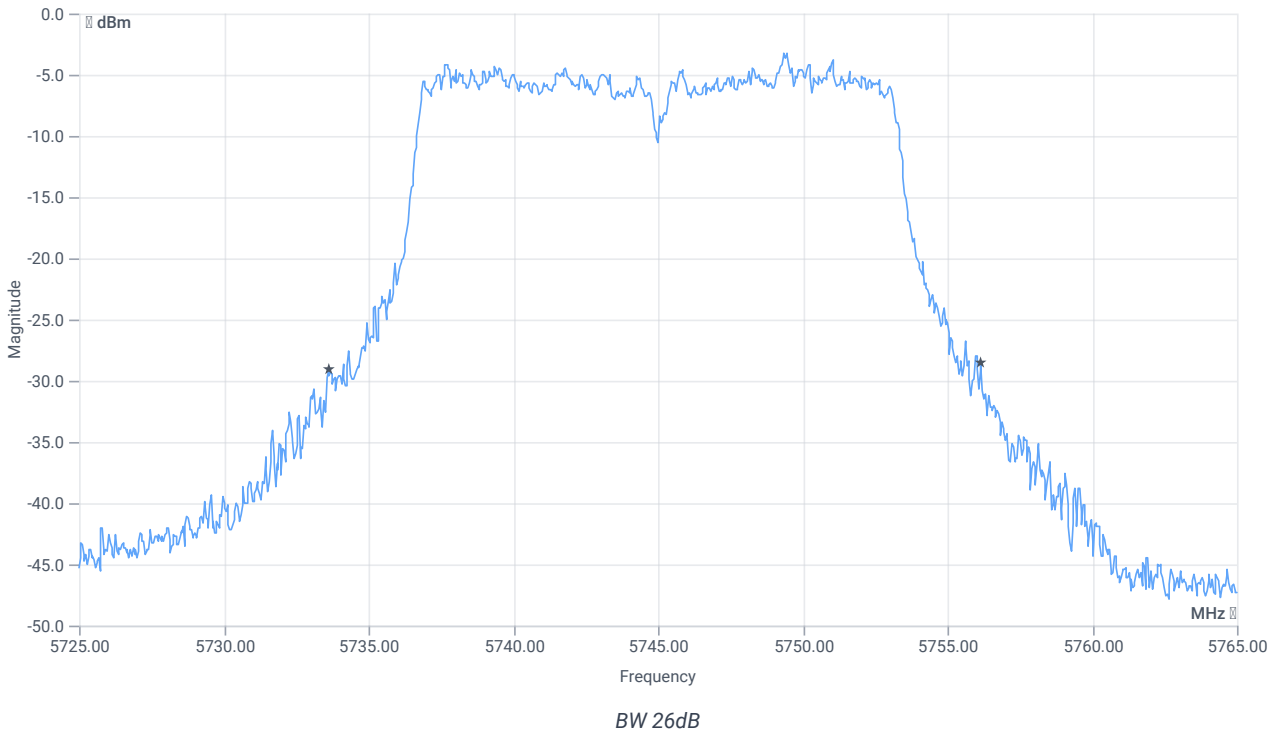
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 259					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.364	--	INFO
Duty cycle min	--	--	4.389	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.35	ms	INFO



Evaluation bandwidth



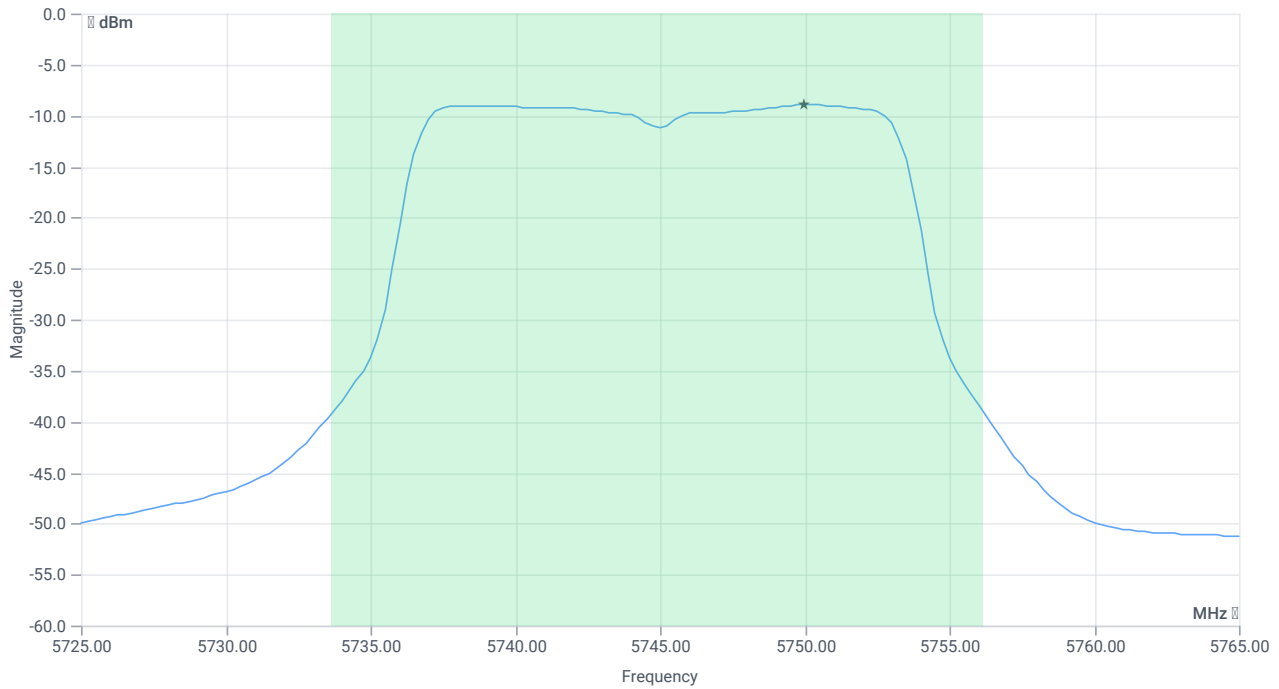
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.56	MHz	INFO
T1 26dB	---	---	5733.6000	MHz	INFO
T2 26dB	---	---	5756.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.83 10.36 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

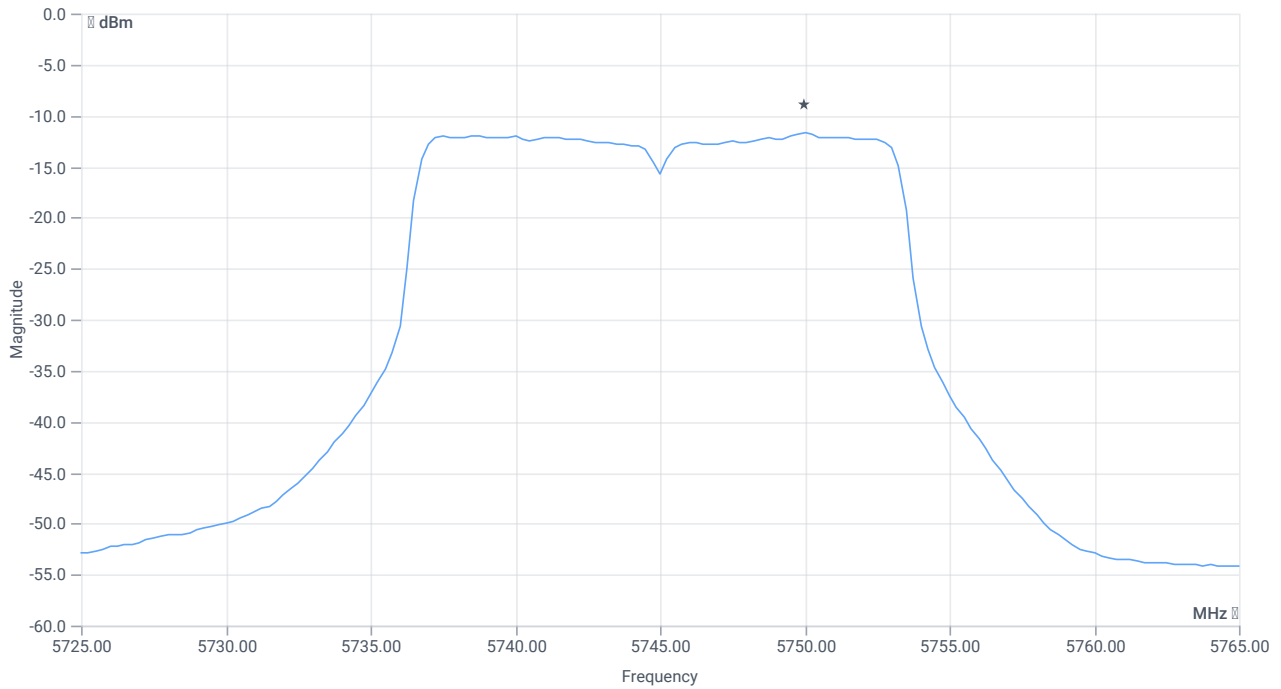
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.47	dBm	INFO
Duty cycle correction	--	--	4.39	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	6.86	dBm	PASS
Limit: 11 dBm + 10 log 22.56					
Max output power DC corrected	--	24.53	6.86	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.83 10.36 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-11.7	dBm/0.5MHz	INFO
Duty cycle correction	--	--	4.39	dB	INFO
Power spectral density DC corrected	--	30	-7.31	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	26.01.2024 16:33:16
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5240 MHz

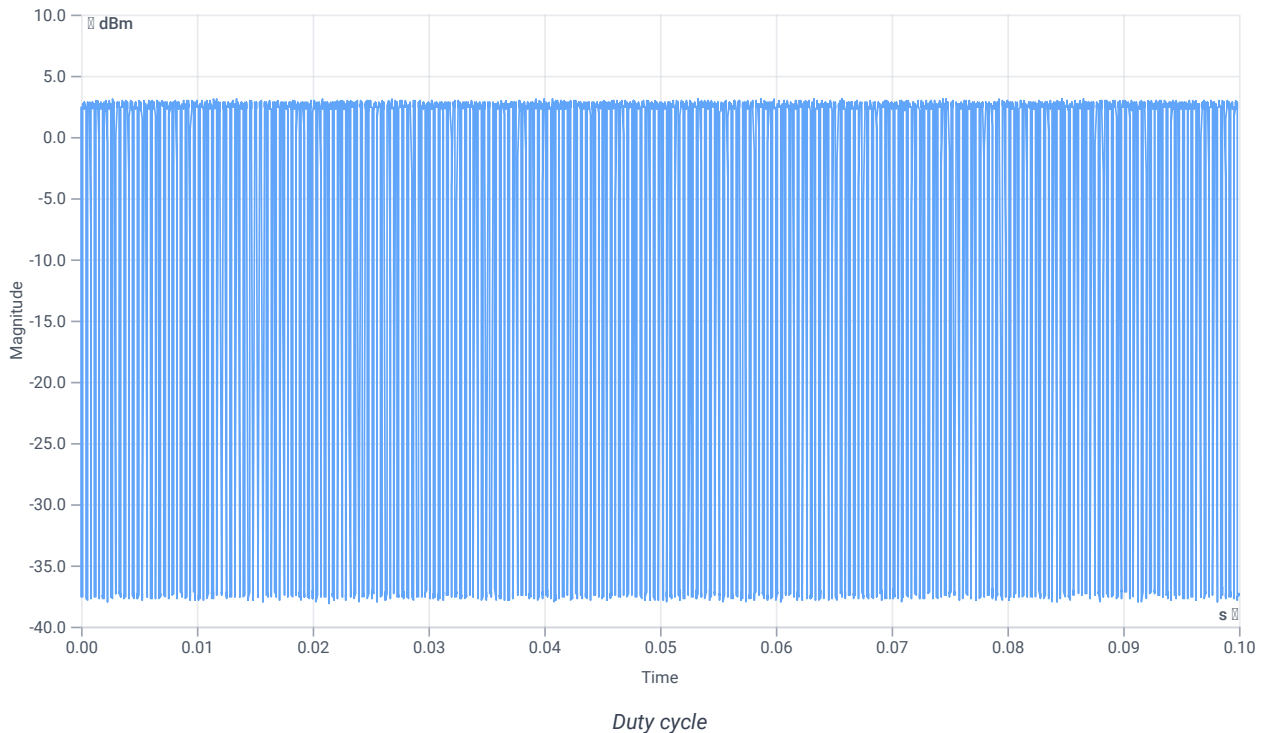
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.43	dBm	INFO
Ref. frequency	--	--	5245.590	MHz	INFO

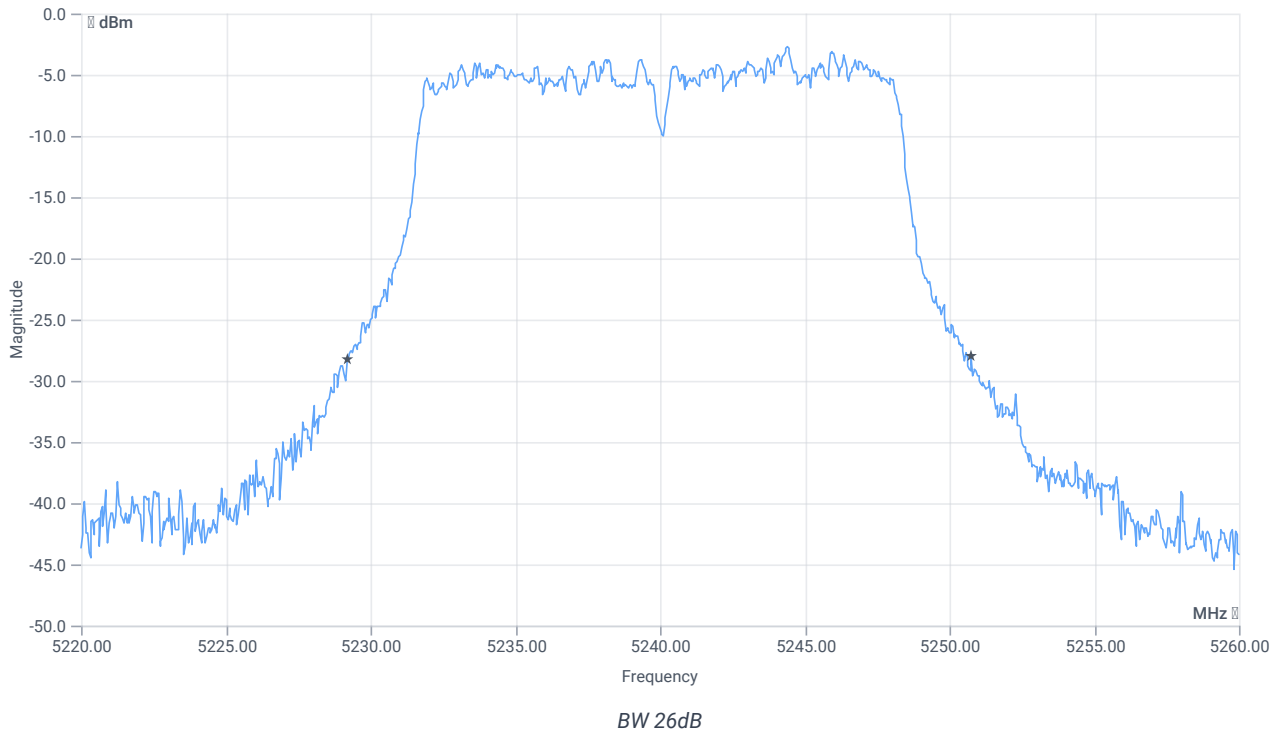
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 267					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



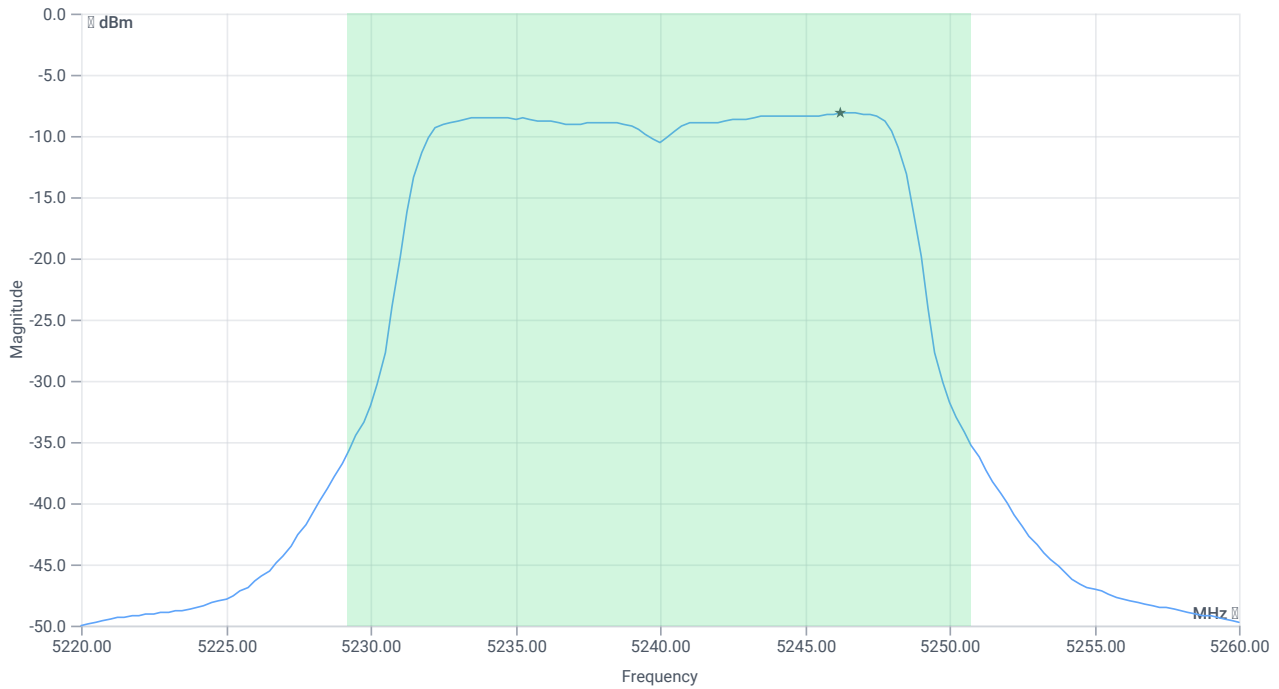
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.56	MHz	INFO
T1 26dB	---	---	5229.2000	MHz	INFO
T2 26dB	---	---	5250.7600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.43 9.93 20
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	3.19	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.46	dBm	PASS
Limit: 11 dBm + 10 log 21.56					
Max output power DC corrected	--	24.34	6.46	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.1	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-4.83	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	26.01.2024 16:29:19
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

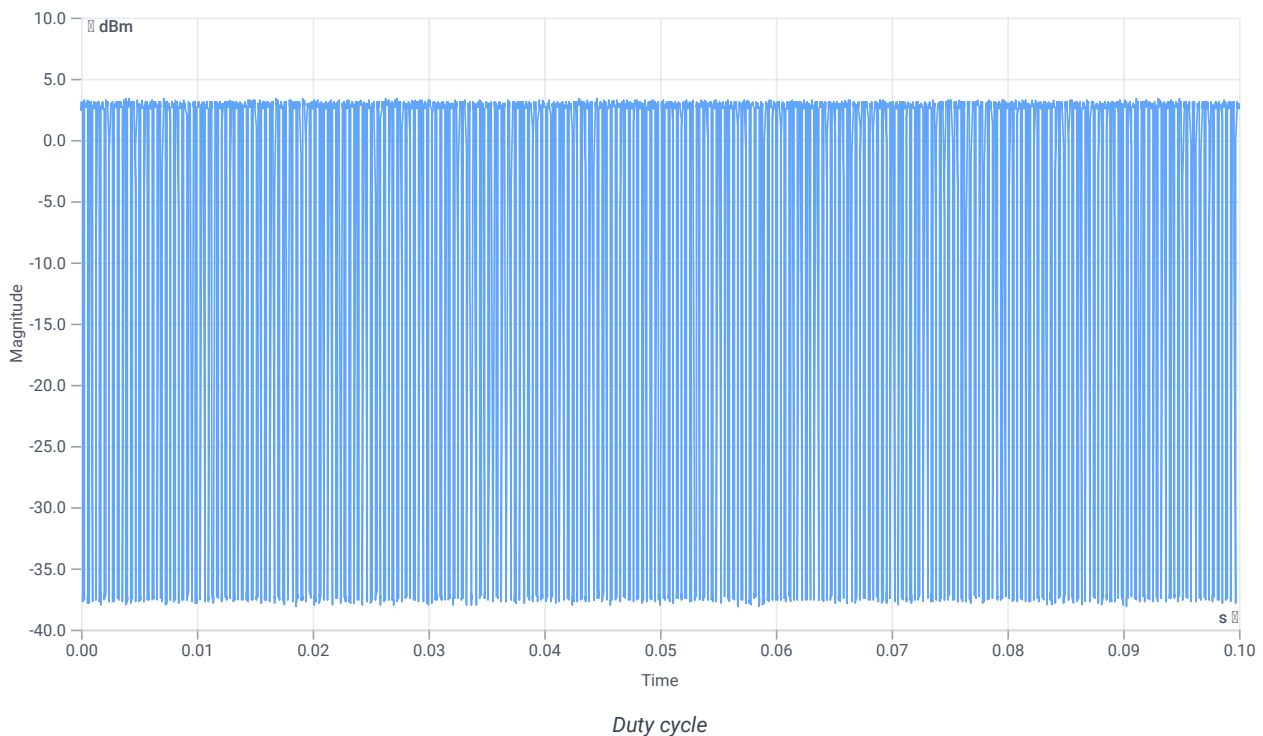
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.89	dBm	INFO
Ref. frequency	--	--	5234.410	MHz	INFO

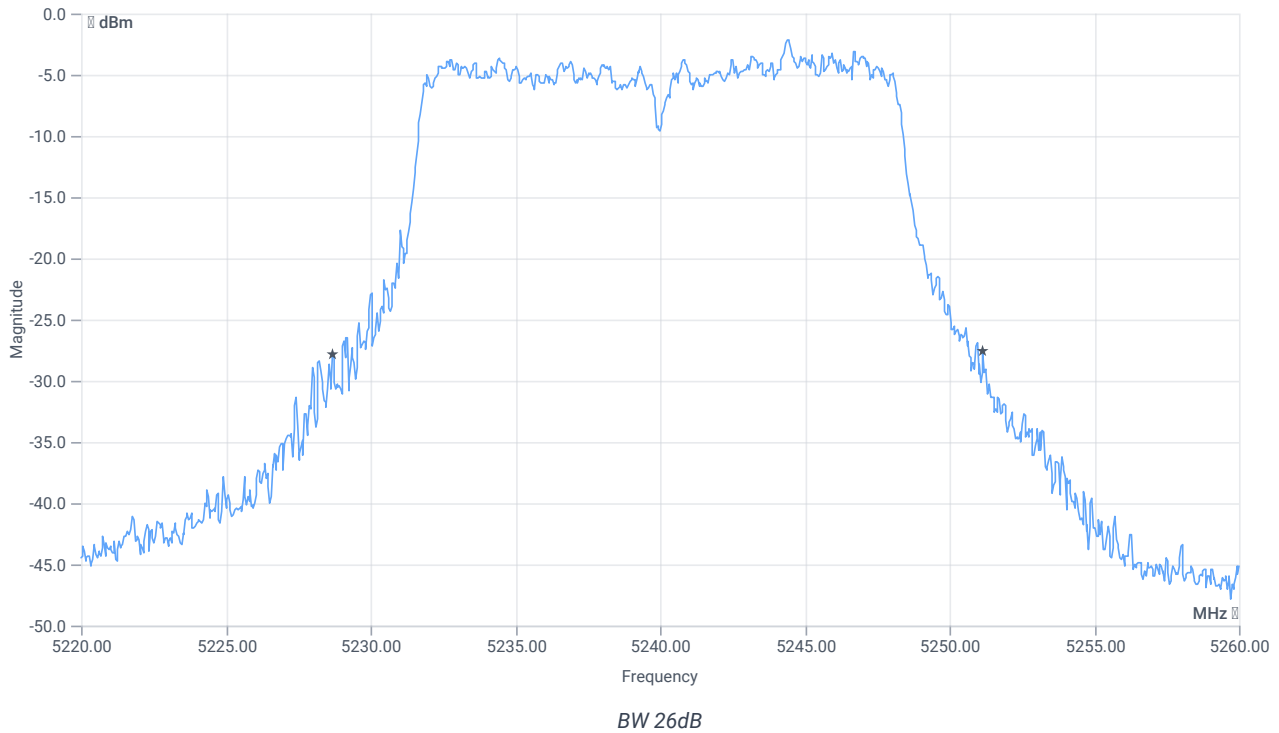
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 267					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



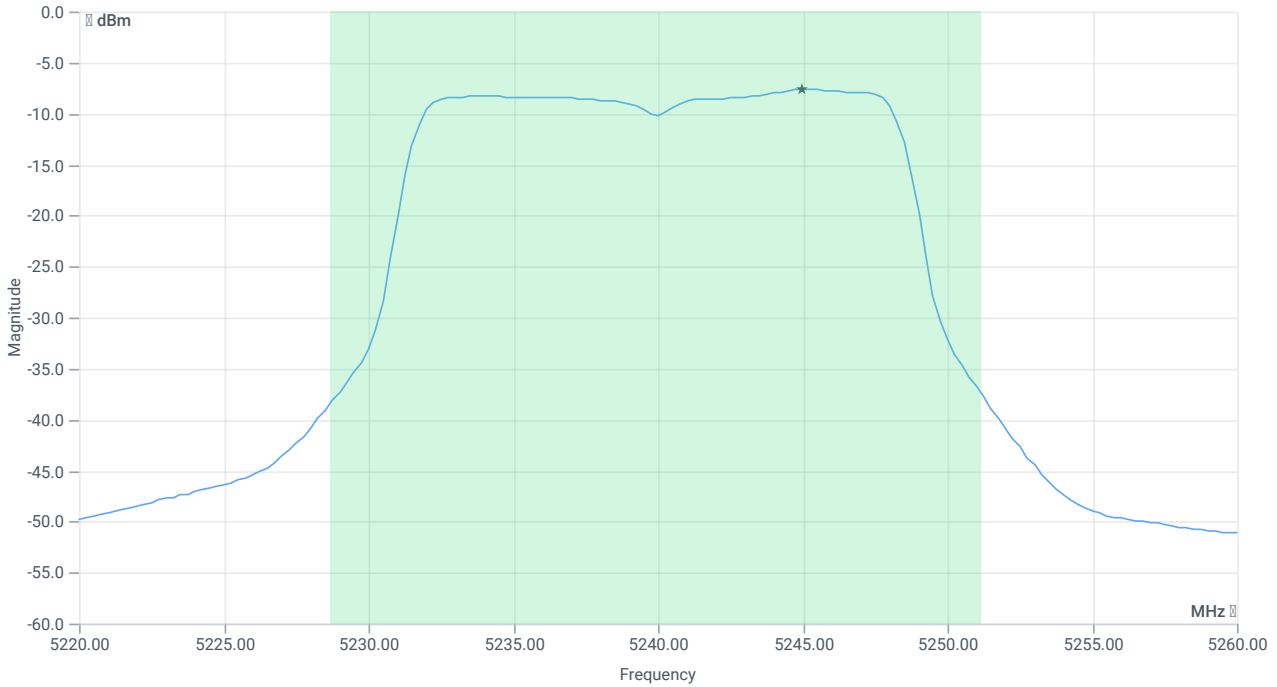
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.48	MHz	INFO
T1 26dB	---	---	5228.6800	MHz	INFO
T2 26dB	---	---	5251.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.89 9.92 20
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	3.51	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.78	dBm	PASS
Limit: 11 dBm + 10 log 22.48					
Max output power DC corrected	--	24.52	6.78	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-7.59	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-4.32	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	26.01.2024 16:23:52
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5200 MHz

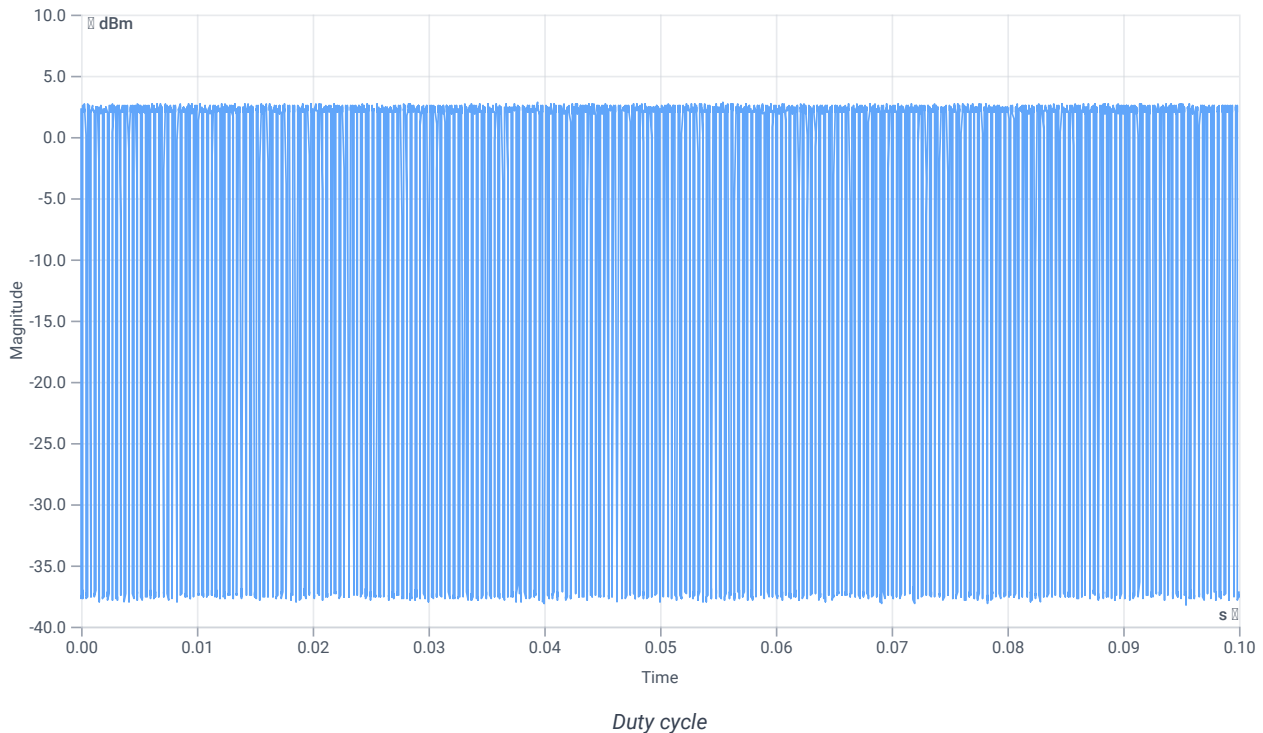
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.36	dBm	INFO
Ref. frequency	--	--	5196.800	MHz	INFO

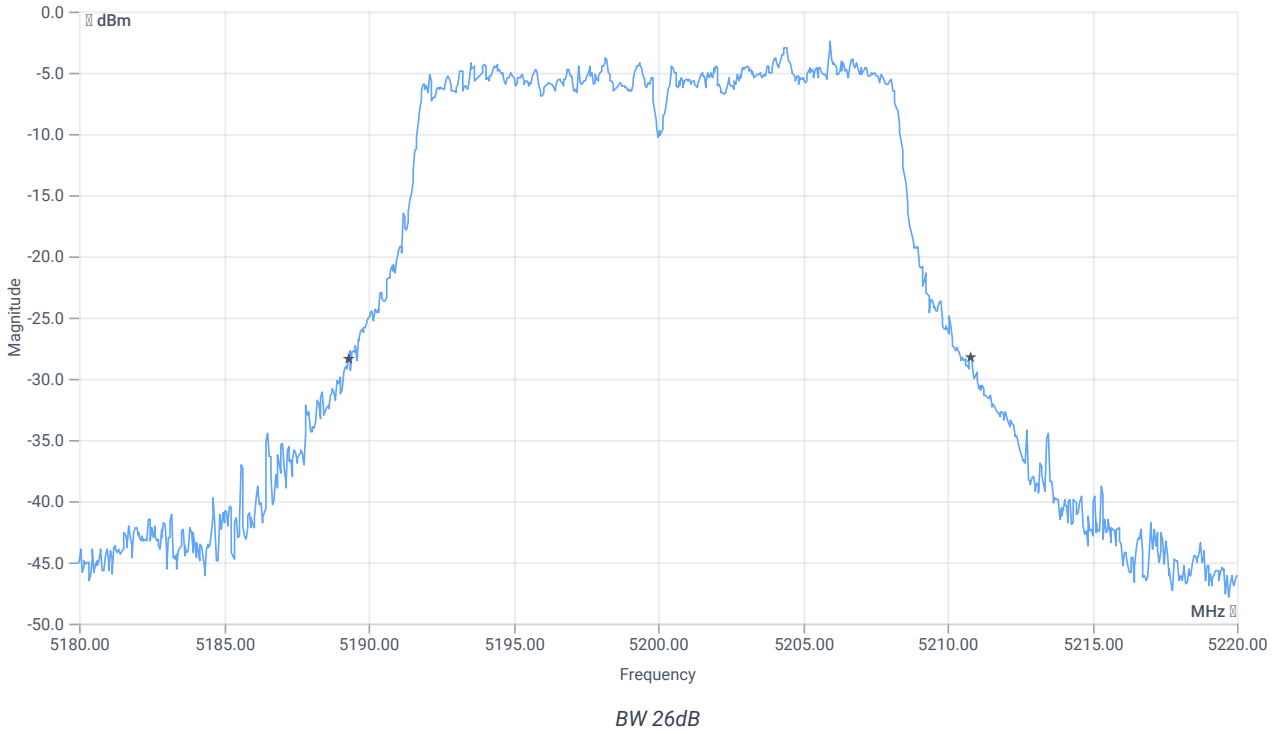
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 265					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



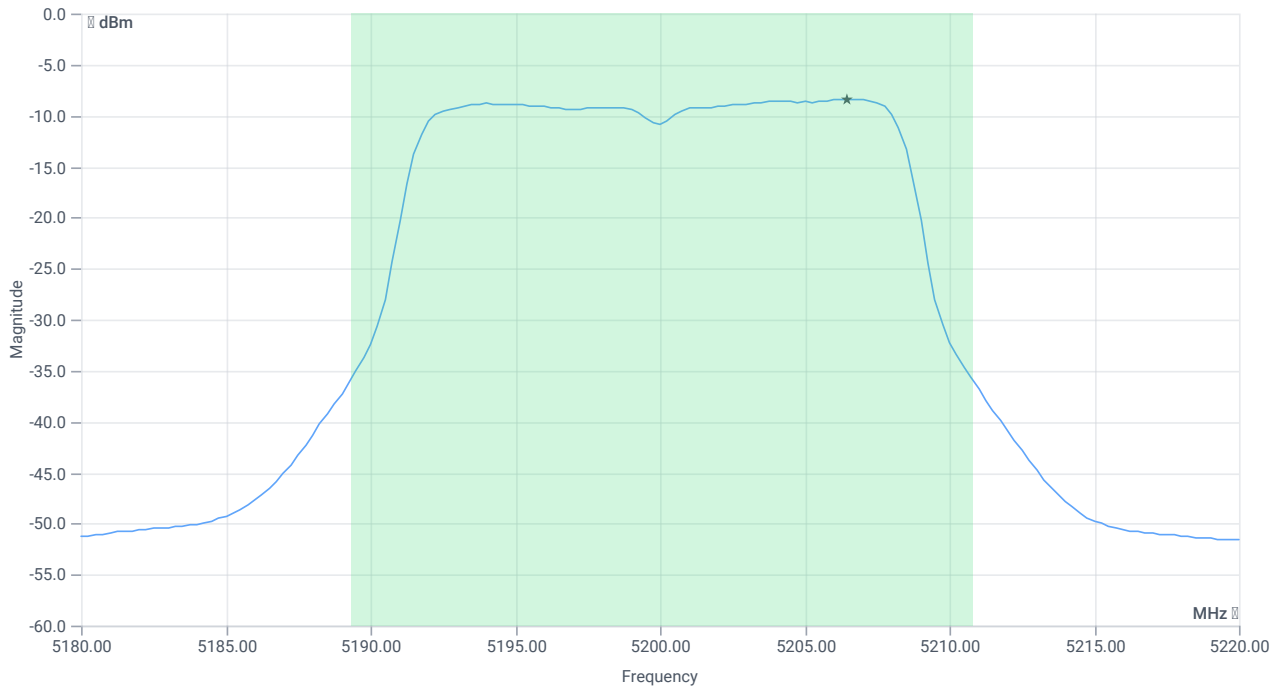
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.48	MHz	INFO
T1 26dB	---	---	5189.3200	MHz	INFO
T2 26dB	---	---	5210.8000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.36 10.08 20
Start [MHz] Stop [MHz]	5180.000 5220.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.85	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.12	dBm	PASS
Limit: 11 dBm + 10 log 21.48					
Max output power DC corrected	--	24.32	6.12	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.4	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-5.13	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	26.01.2024 16:19:45
Ambit temp [°C] humidity [rel%]	26.7 35
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5200 MHz

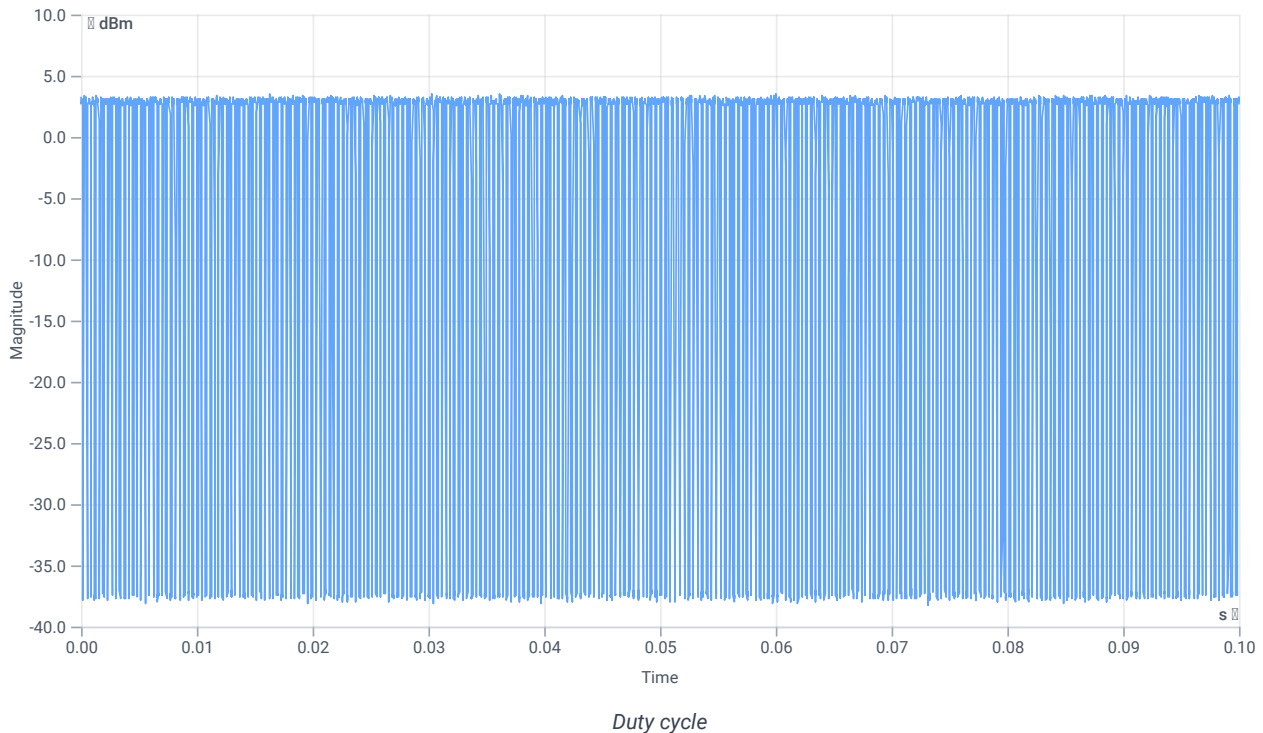
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.34	dBm	INFO
Ref. frequency	--	--	5196.200	MHz	INFO

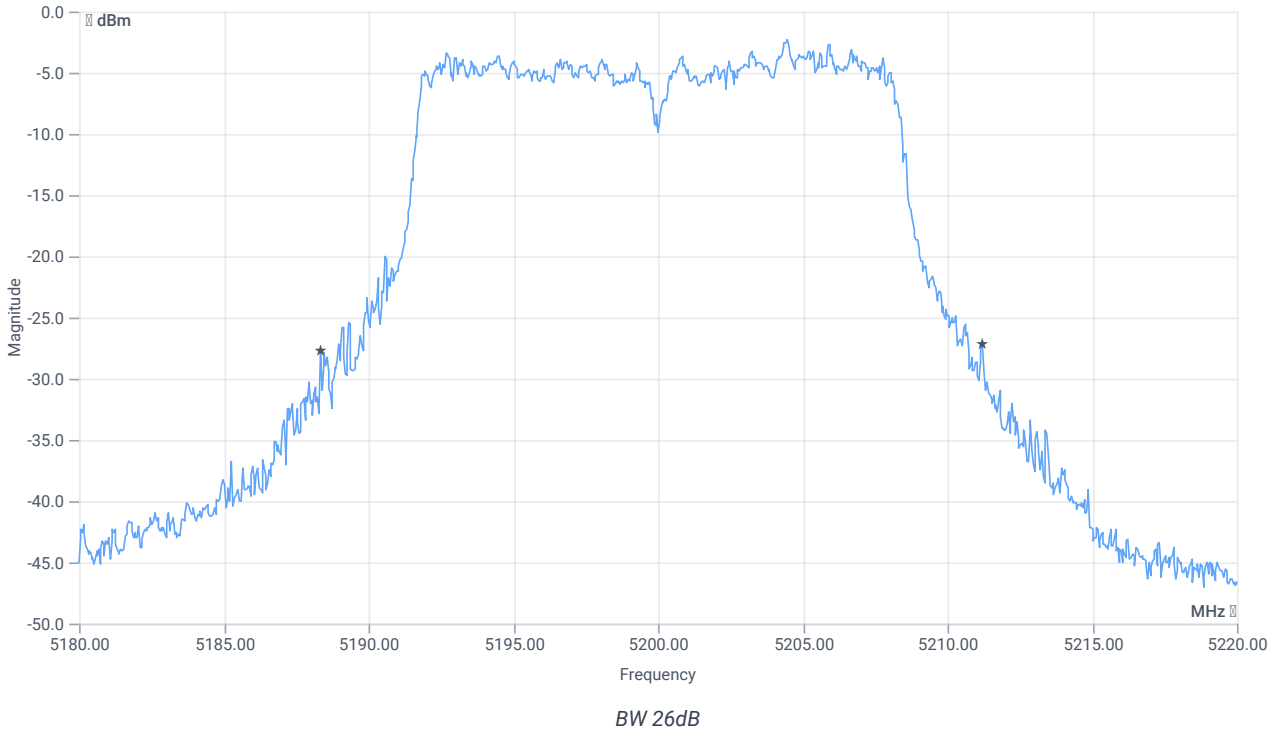
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 267					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



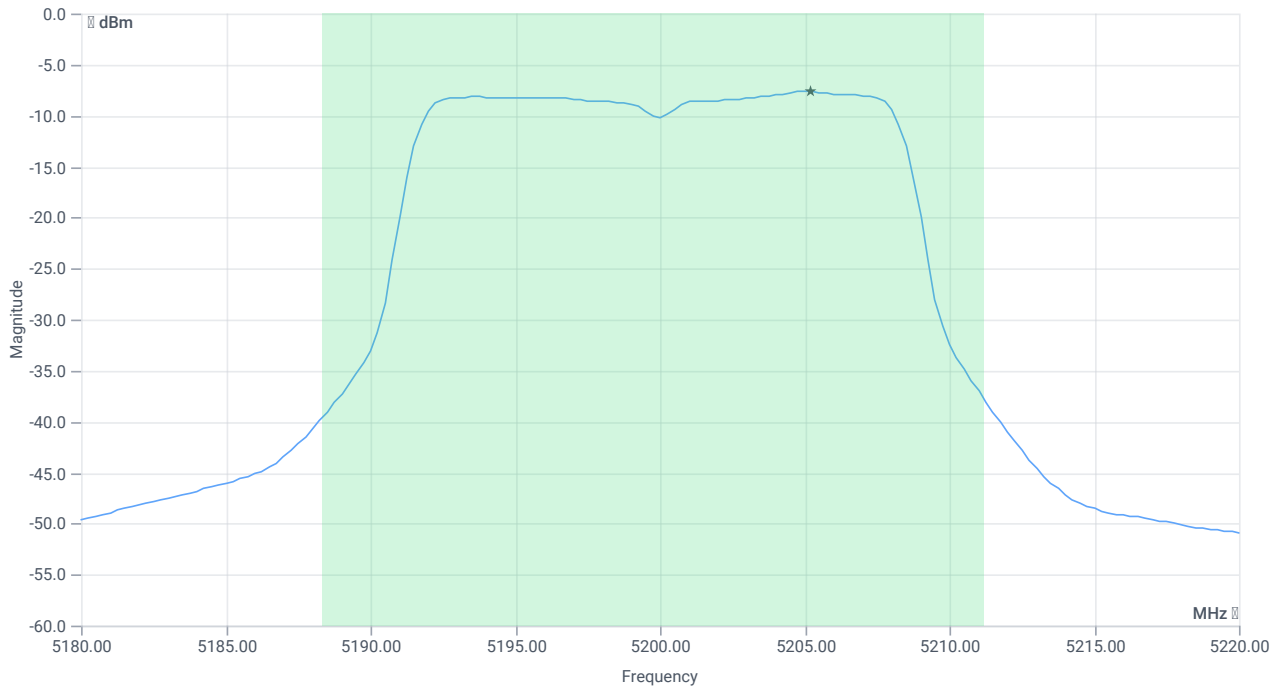
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.88	MHz	INFO
T1 26dB	---	---	5188.3200	MHz	INFO
T2 26dB	---	---	5211.2000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.34 10.05 20
Start [MHz] Stop [MHz]	5180.000 5220.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	3.54	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.81	dBm	PASS
Limit: 11 dBm + 10 log 22.88					
Max output power DC corrected	--	24.59	6.81	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-7.64	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-4.37	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	26.01.2024 16:14:32
Ambit temp [°C] humidity [rel%]	26.7 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5180 MHz

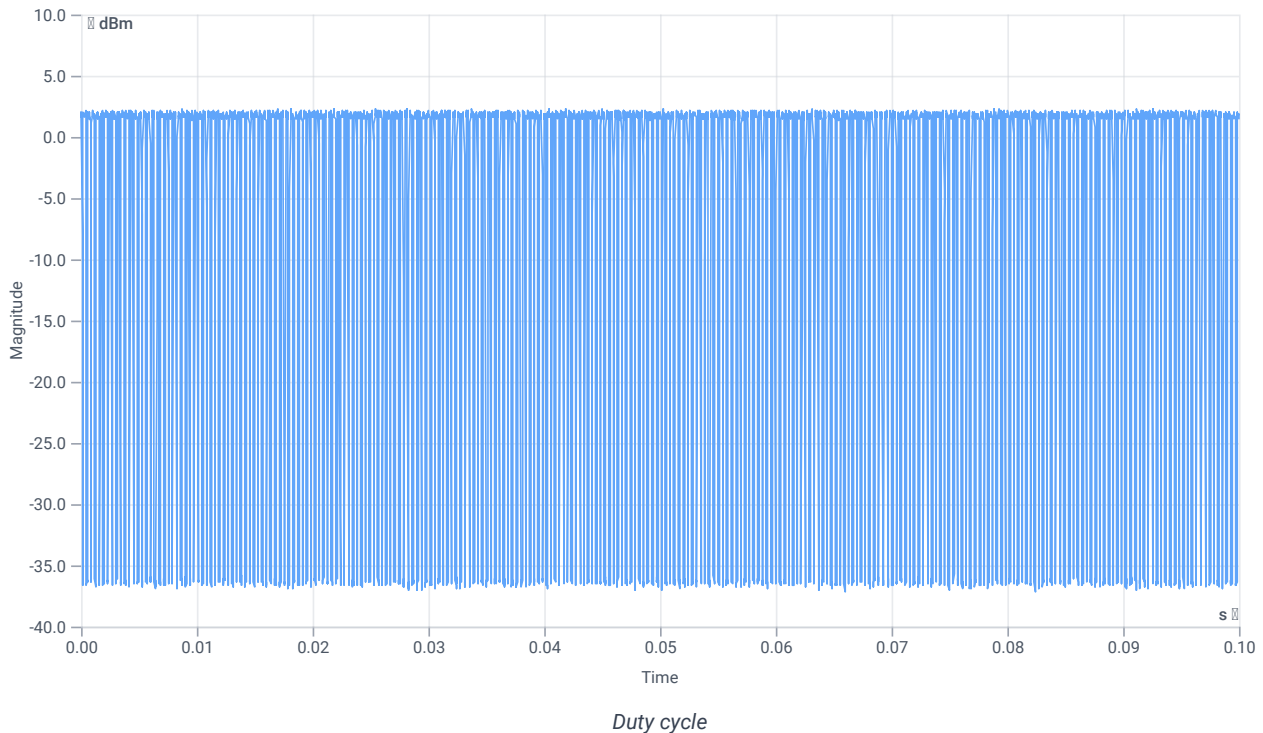
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.50	dBm	INFO
Ref. frequency	--	--	5174.610	MHz	INFO

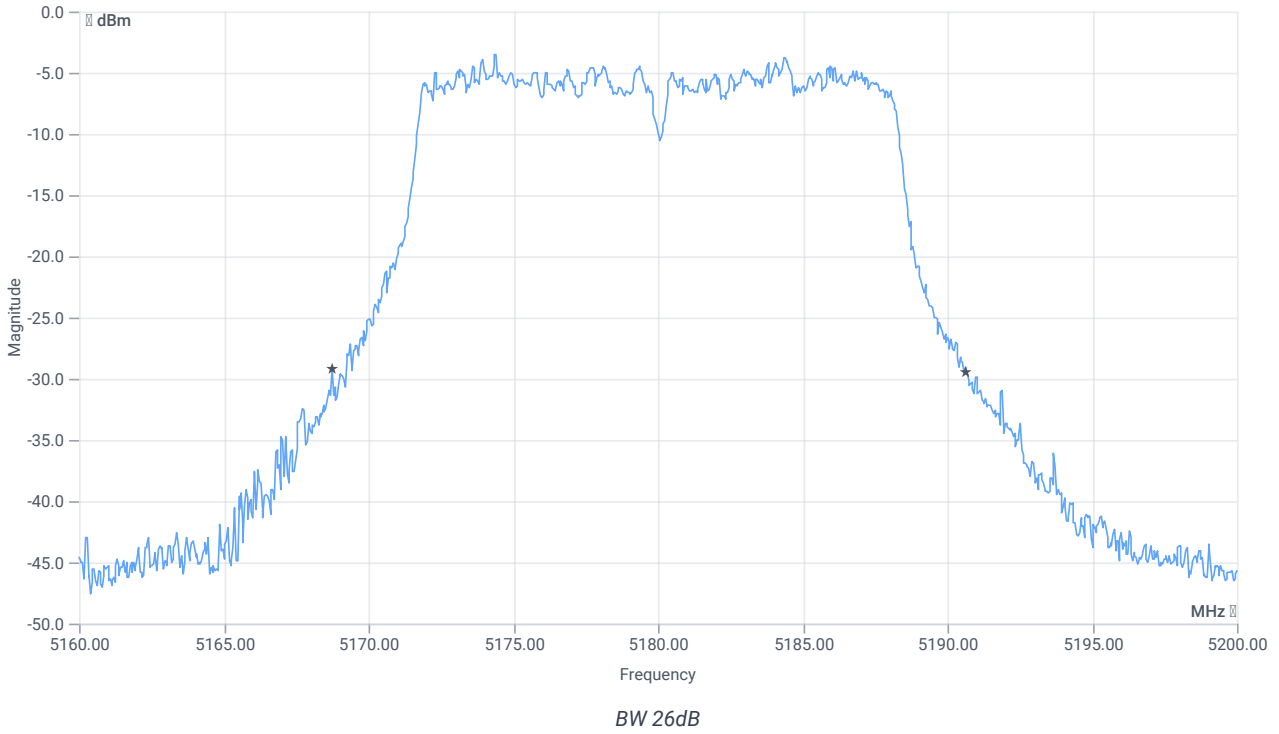
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 267					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



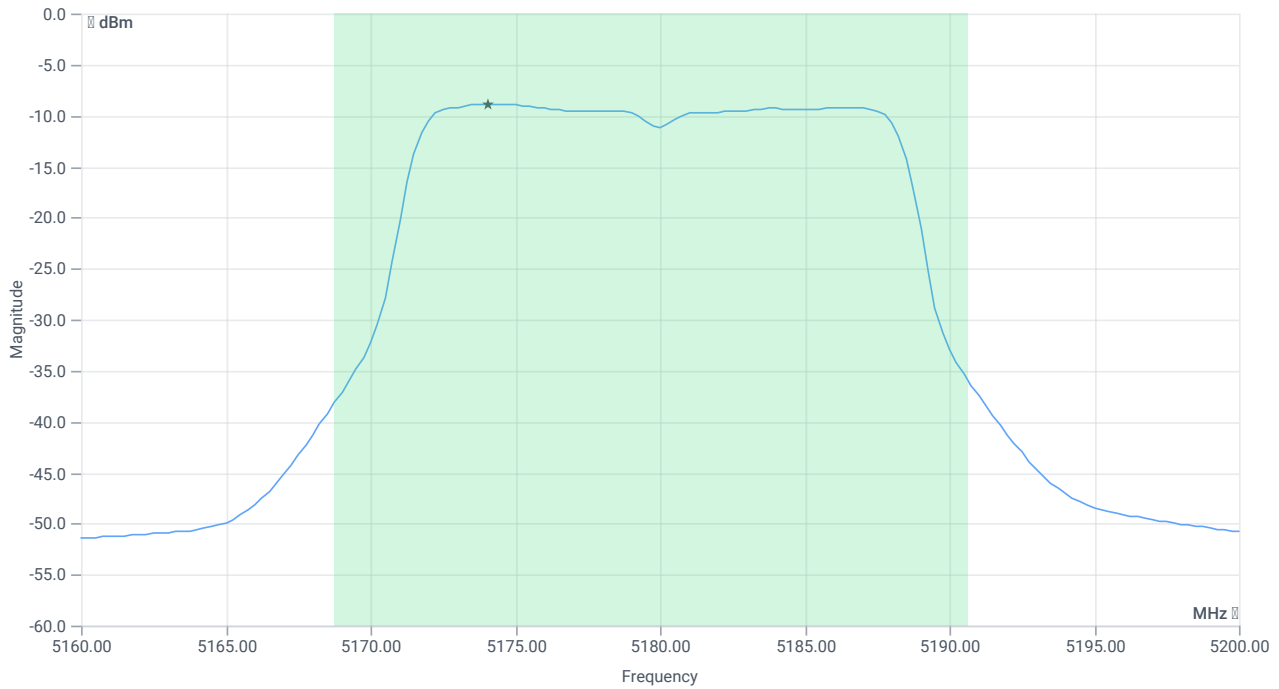
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.92	MHz	INFO
T1 26dB	---	---	5168.7200	MHz	INFO
T2 26dB	---	---	5190.6400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.50 10.01 20
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.45	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	5.72	dBm	PASS
Limit: 11 dBm + 10 log 21.92					
Max output power DC corrected	--	24.41	5.72	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.9	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-5.63	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-1

References

TC start	26.01.2024 16:10:19
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

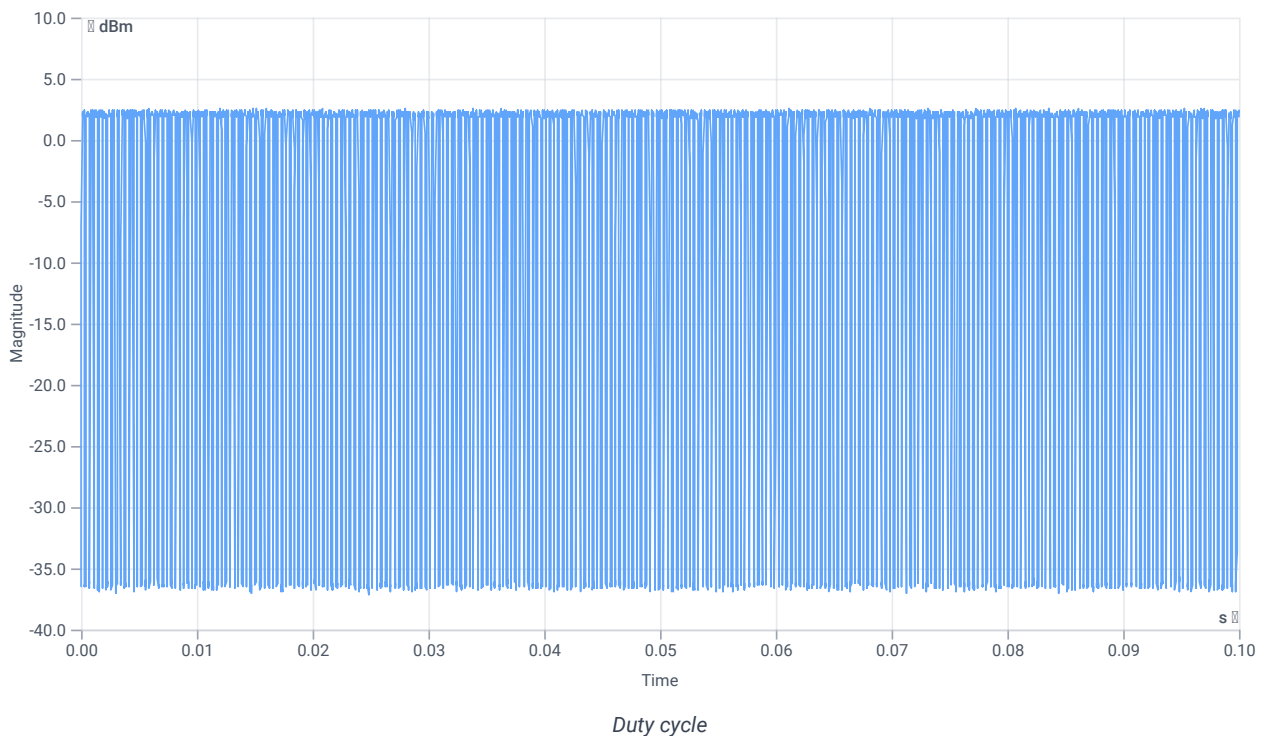
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.89	dBm	INFO
Ref. frequency	--	--	5184.400	MHz	INFO

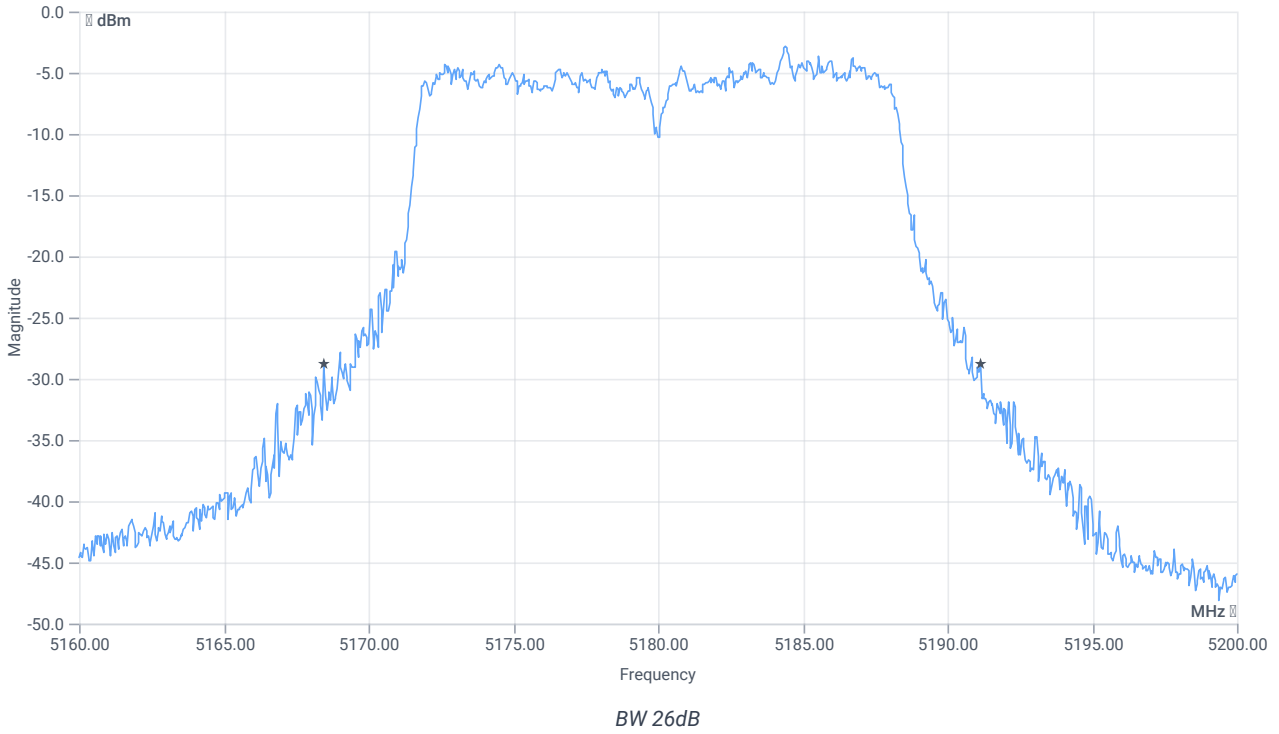
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 268					
Duty cycle (burst Ratio) max	--	--	0.643	--	INFO
Duty cycle max	--	--	1.918	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.471	--	INFO
Duty cycle min	--	--	3.27	dB	INFO
Max TX burst length	--	--	0.225	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



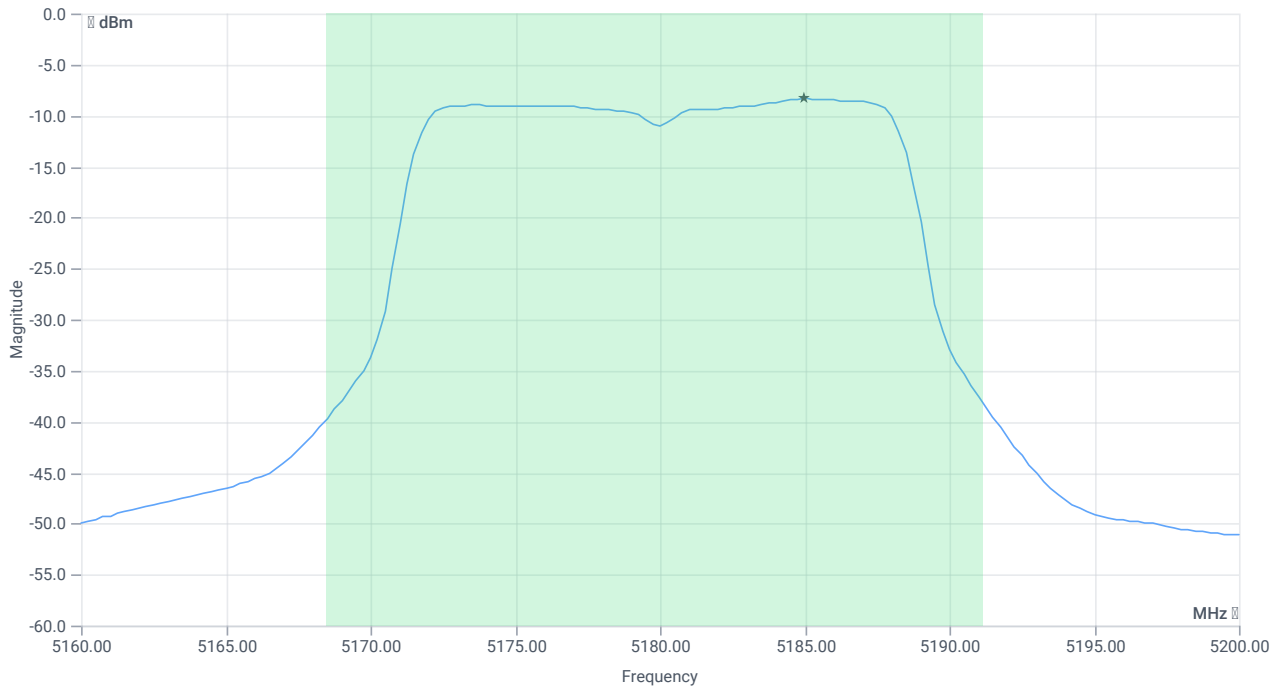
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.72	MHz	INFO
T1 26dB	---	---	5168.4400	MHz	INFO
T2 26dB	---	---	5191.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.89 9.99 20
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	2.79	dBm	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.06	dBm	PASS
Limit: 11 dBm + 10 log 22.72					
Max output power DC corrected	--	24.56	6.06	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.35	dBm/1MHz	INFO
Duty cycle correction	--	--	3.27	dB	INFO
Power spectral density DC corrected	--	11	-5.08	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

References

TC start	26.01.2024 15:53:08
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5180 MHz

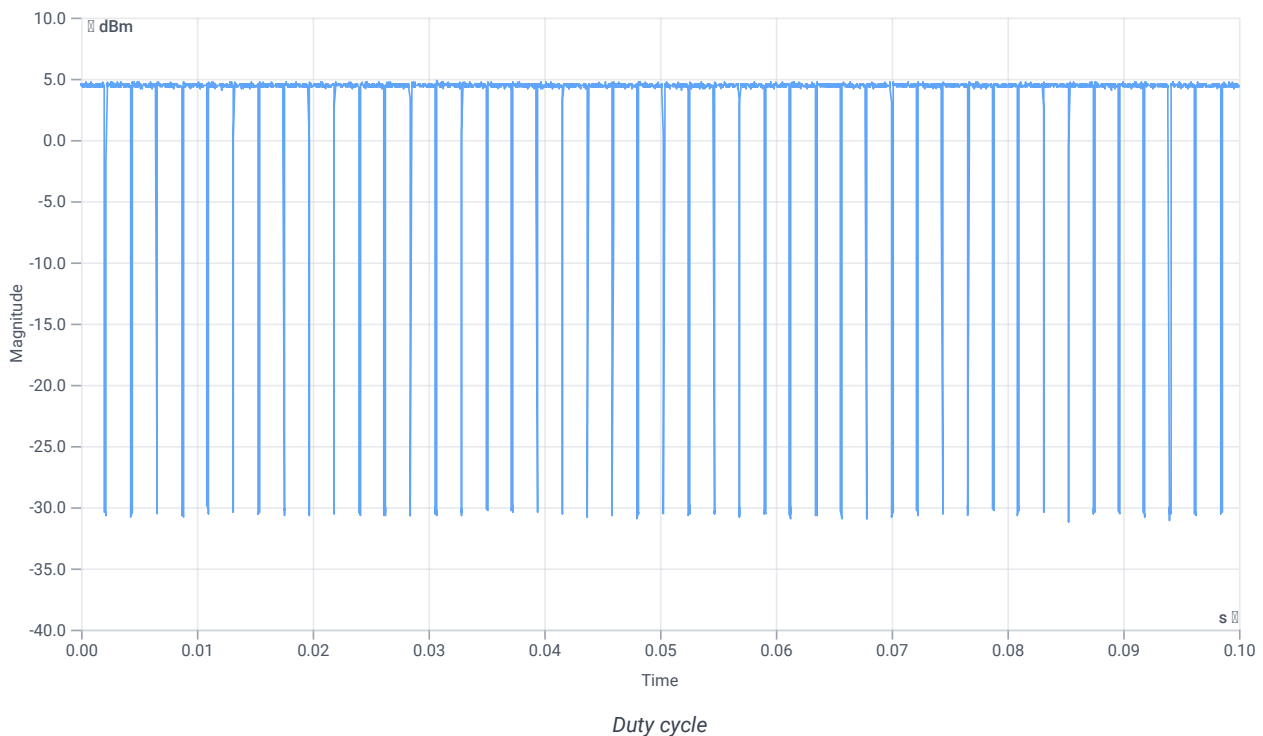
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	3.52	dBm	INFO
Ref. frequency	--	--	5182.200	MHz	INFO

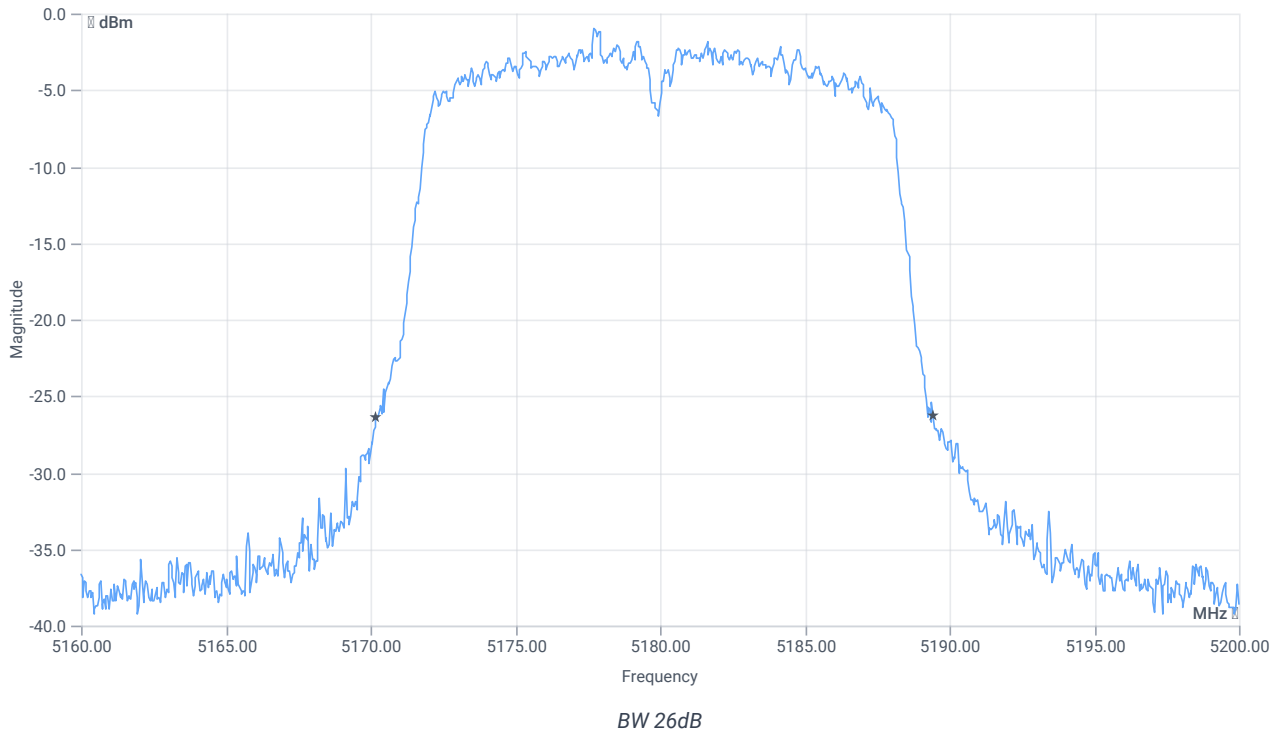
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 44					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.91	--	INFO
Duty cycle min	--	--	0.41	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.2	ms	INFO



Evaluation bandwidth



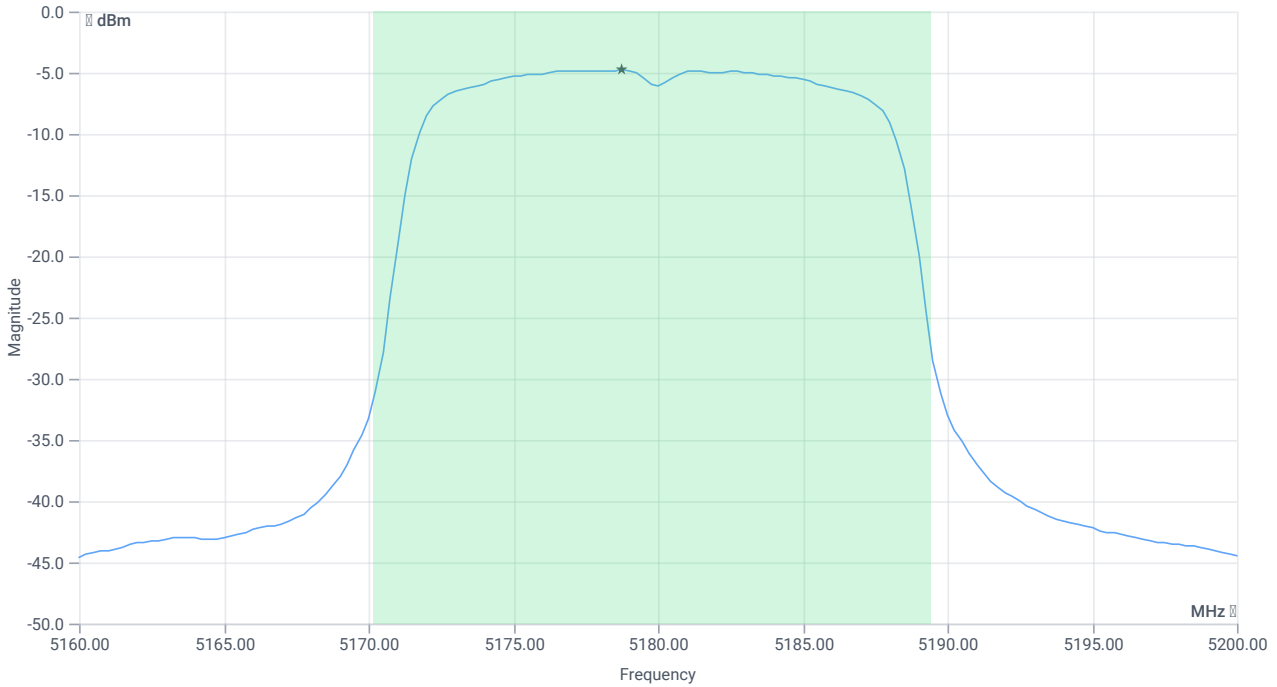
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.24	MHz	INFO
T1 26dB	---	---	5170.2000	MHz	INFO
T2 26dB	---	---	5189.4400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.52 10.01 20
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	6.32	dBm	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.73	dBm	PASS
Limit: 11 dBm + 10 log 19.24					
Max output power DC corrected	--	23.84	6.73	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-4.79	dBm/1MHz	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Power spectral density DC corrected	--	11	-4.38	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:44:51
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5825 MHz

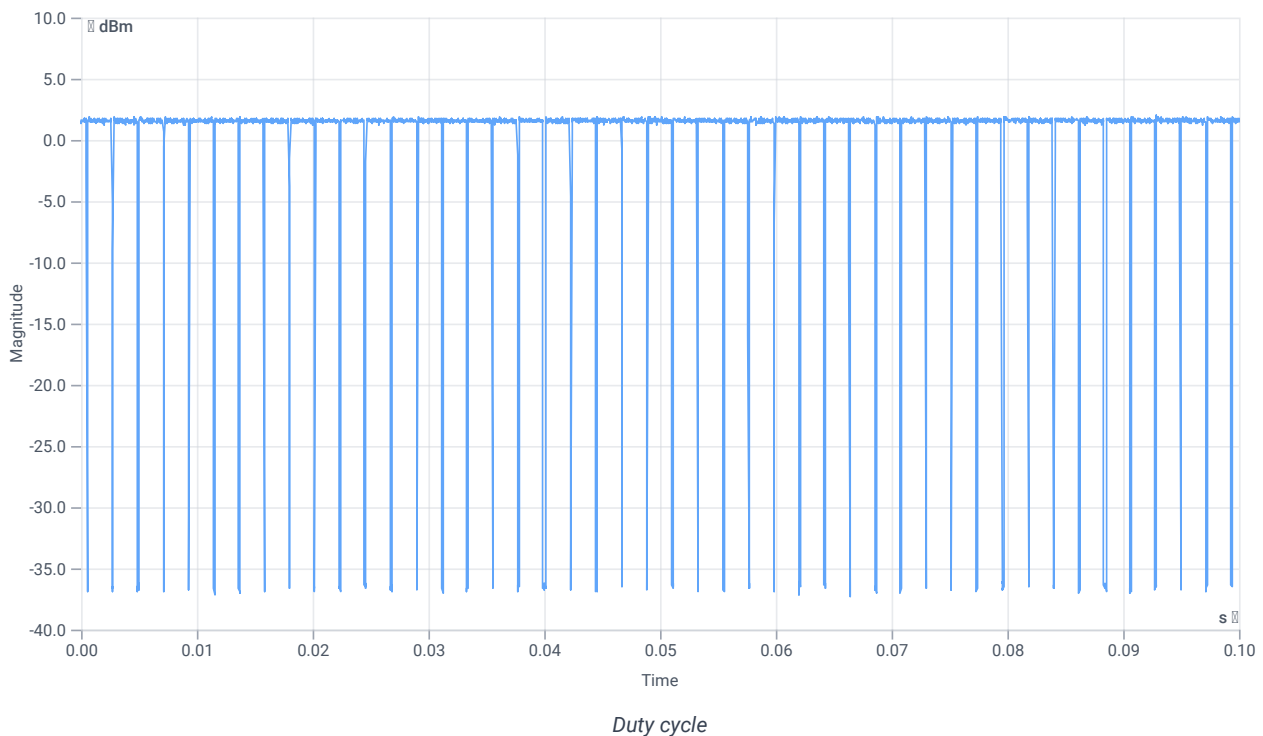
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.39	dBm	INFO
Ref. frequency	--	--	5822.200	MHz	INFO

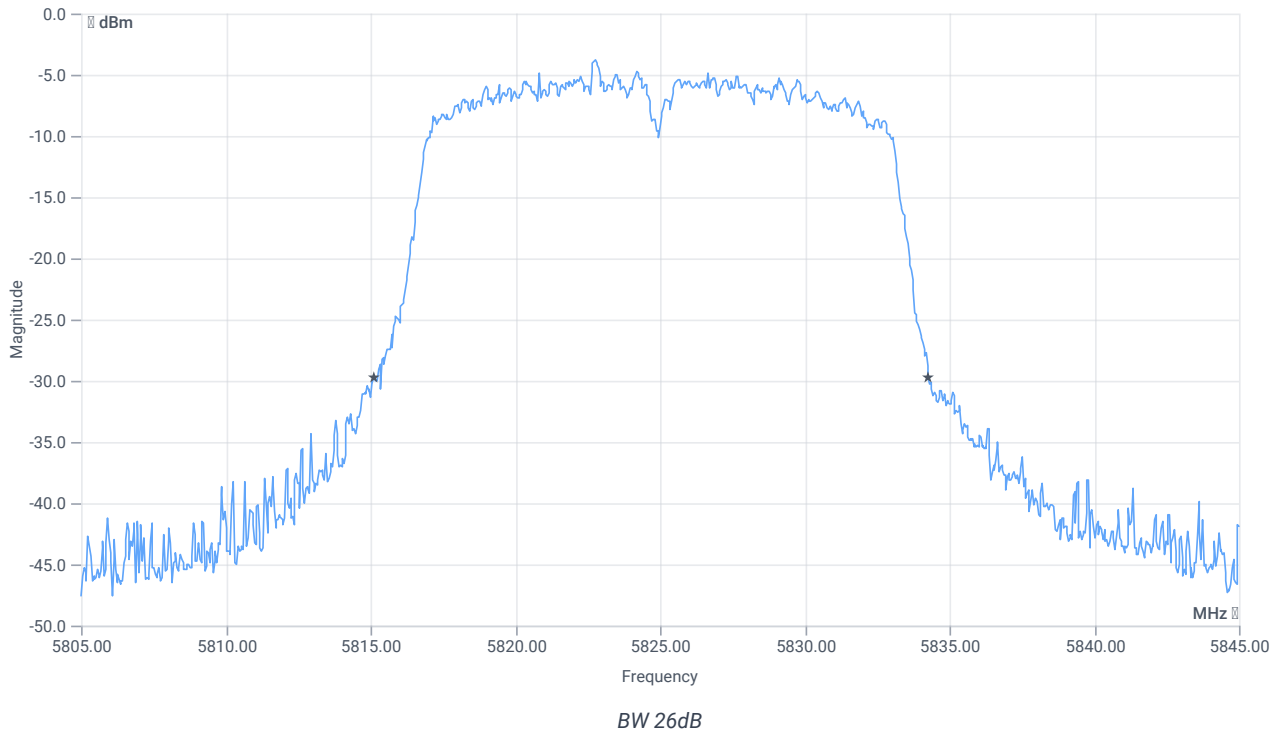
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.882	--	INFO
Duty cycle min	--	--	0.545	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.275	ms	INFO



Evaluation bandwidth



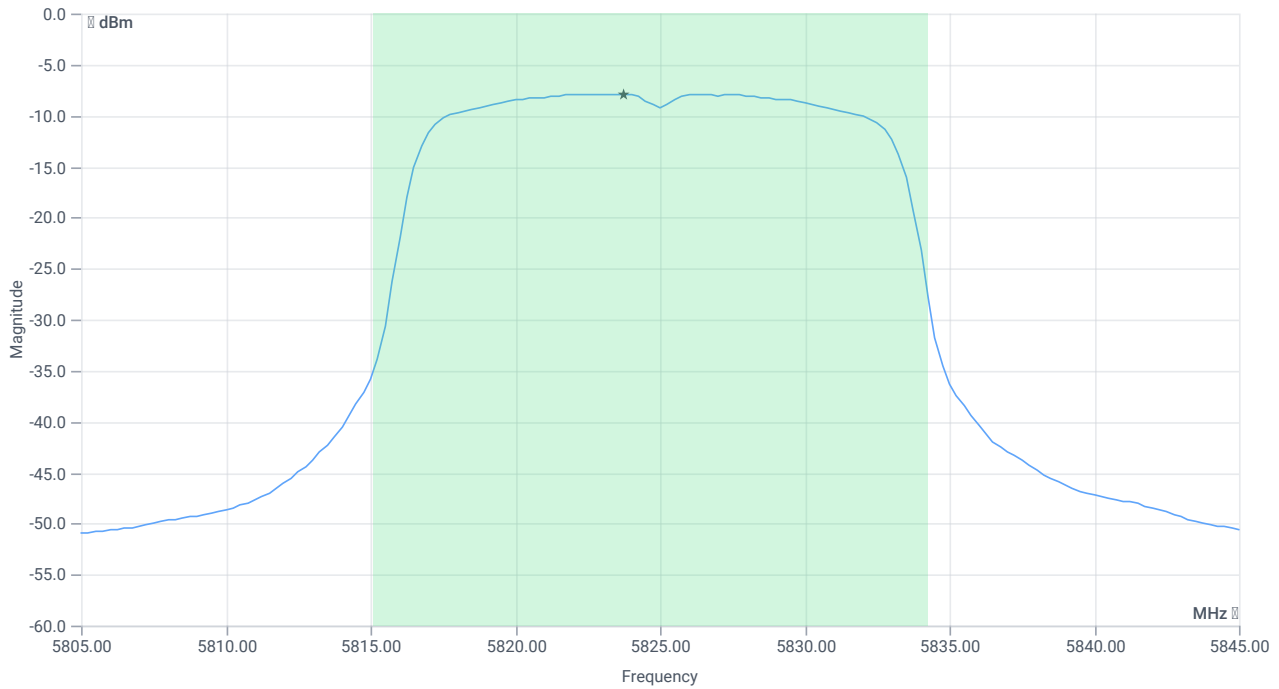
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.16	MHz	INFO
T1 26dB	---	---	5815.1200	MHz	INFO
T2 26dB	---	---	5834.2800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.39 10.44 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

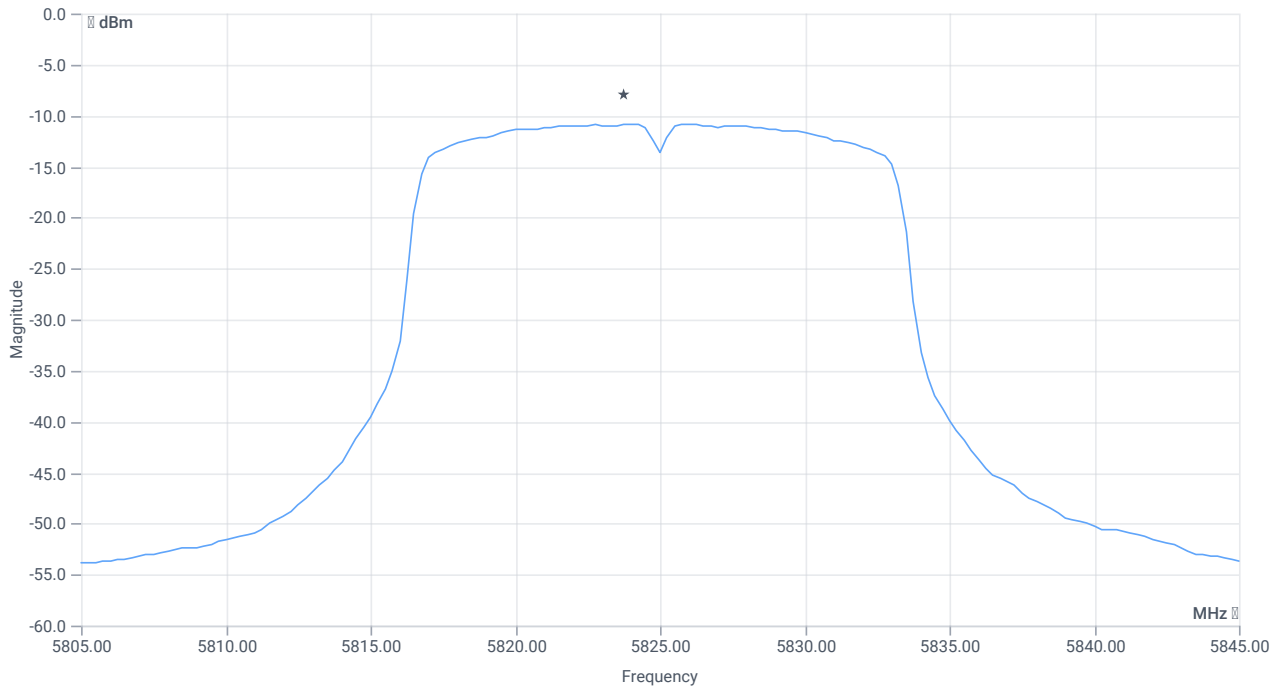
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	3.2	dBm	INFO
Duty cycle correction	--	--	0.55	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	3.75	dBm	PASS
Limit: 11 dBm + 10 log 19.16					
Max output power DC corrected	--	23.82	3.75	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.39 10.44 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-10.84	dBm/0.5MHz	INFO
Duty cycle correction	--	--	0.55	dB	INFO
Power spectral density DC corrected	--	30	-10.29	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:37:34
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5825 MHz

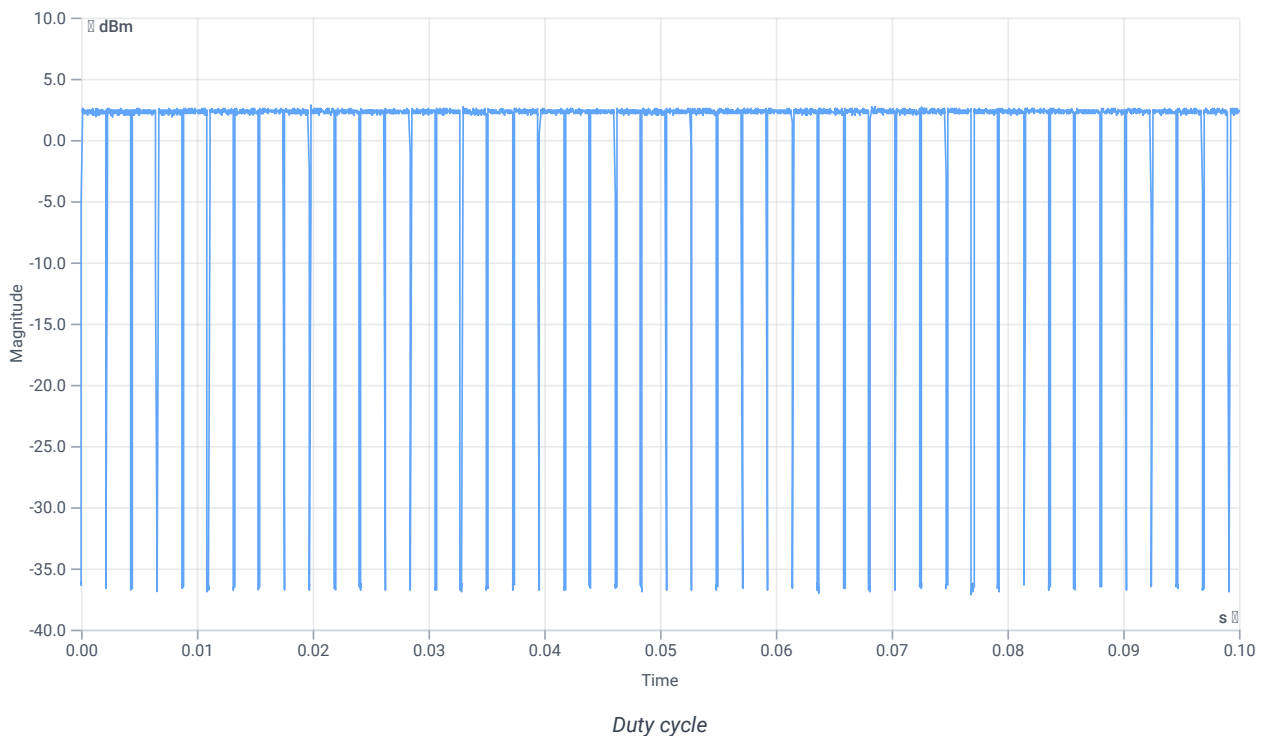
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.88	dBm	INFO
Ref. frequency	--	--	5821.400	MHz	INFO

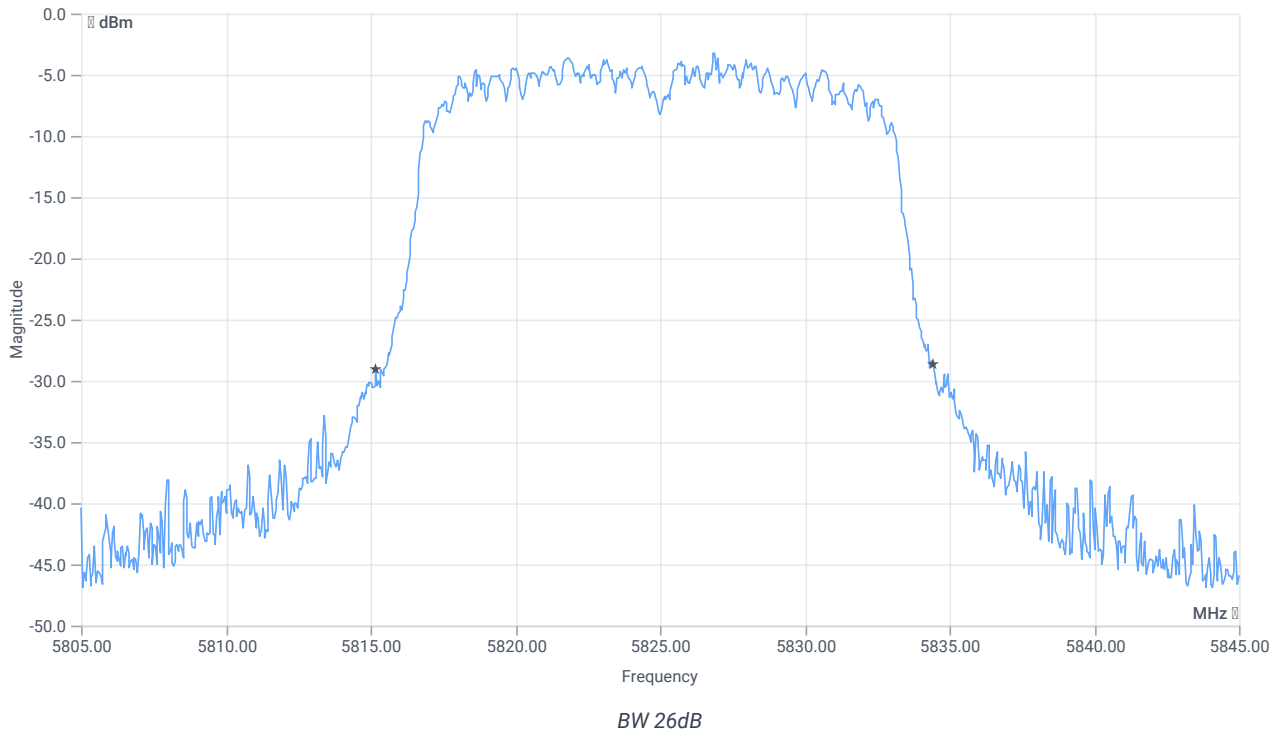
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 44					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.89	--	INFO
Duty cycle min	--	--	0.506	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.25	ms	INFO



Evaluation bandwidth



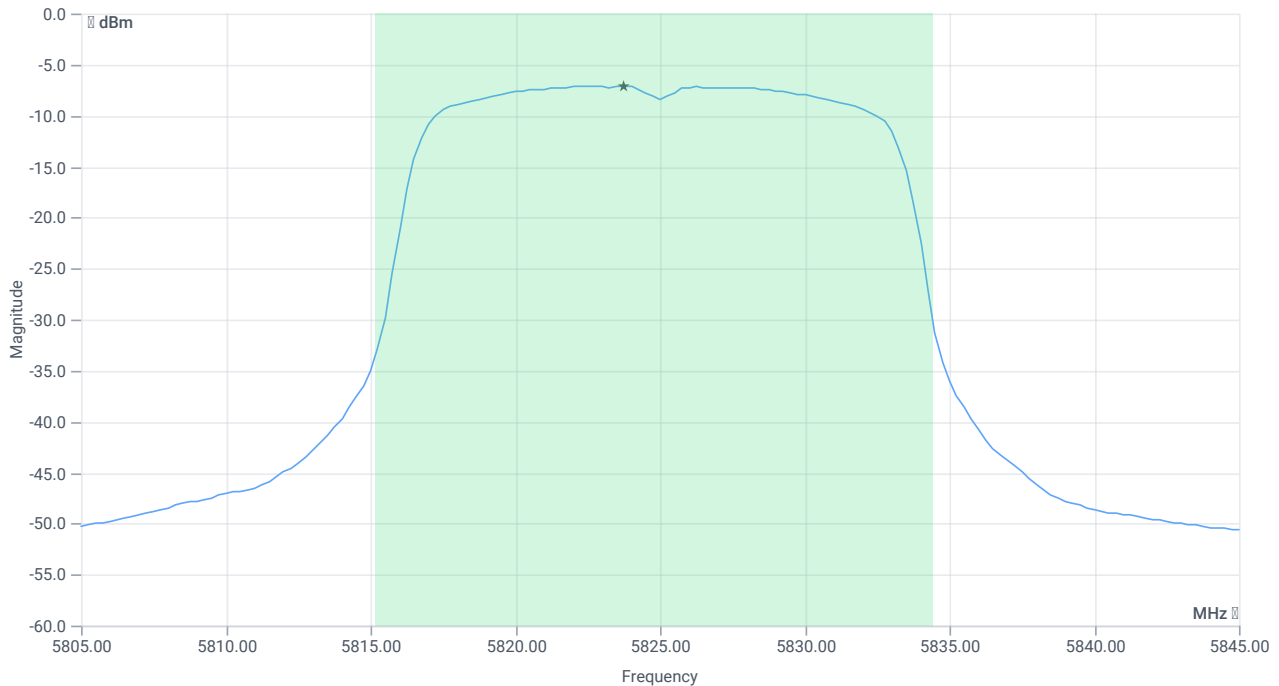
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.24	MHz	INFO
T1 26dB	---	---	5815.2000	MHz	INFO
T2 26dB	---	---	5834.4400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.88 10.45 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

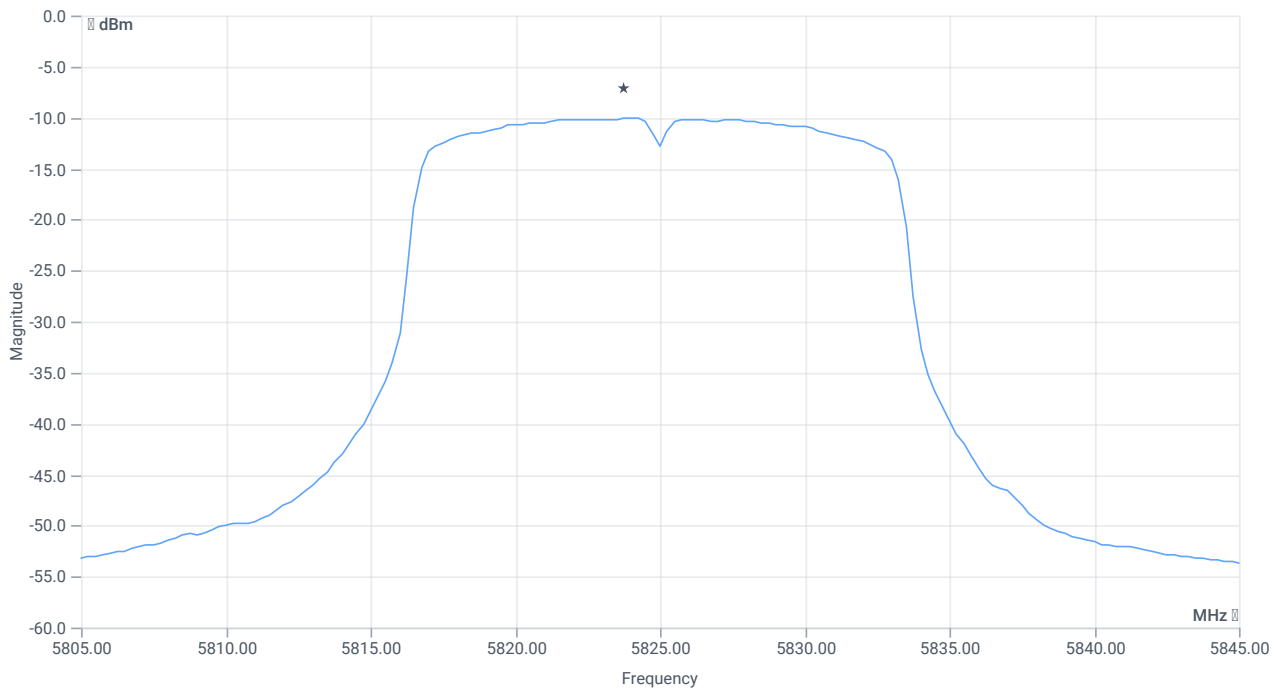
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	3.95	dBm	INFO
Duty cycle correction	--	--	0.51	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	4.46	dBm	PASS
Limit: 11 dBm + 10 log 19.24					
Max output power DC corrected	--	23.84	4.46	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.88 10.45 20
Start [MHz] Stop [MHz]	5805.000 5845.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-10.06	dBm/0.5MHz	INFO
Duty cycle correction	--	--	0.51	dB	INFO
Power spectral density DC corrected	--	30	-9.55	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:29:01
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5785 MHz

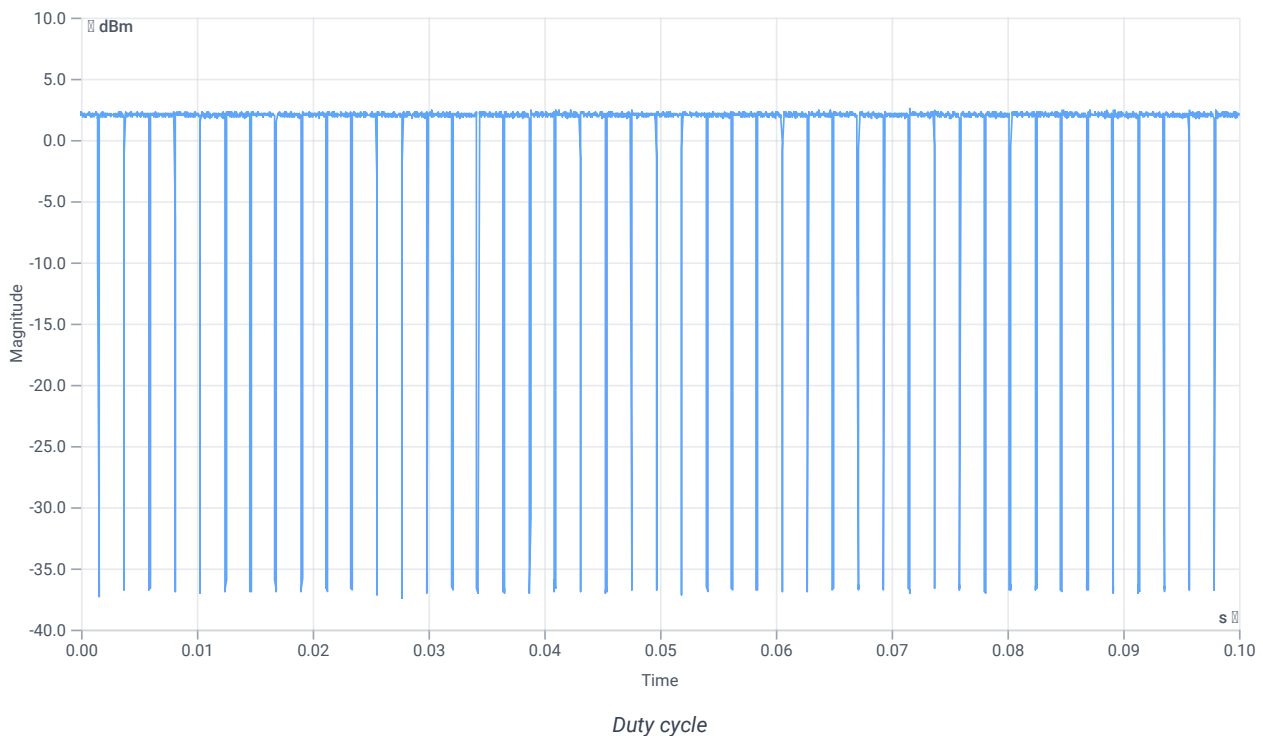
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.71	dBm	INFO
Ref. frequency	--	--	5784.200	MHz	INFO

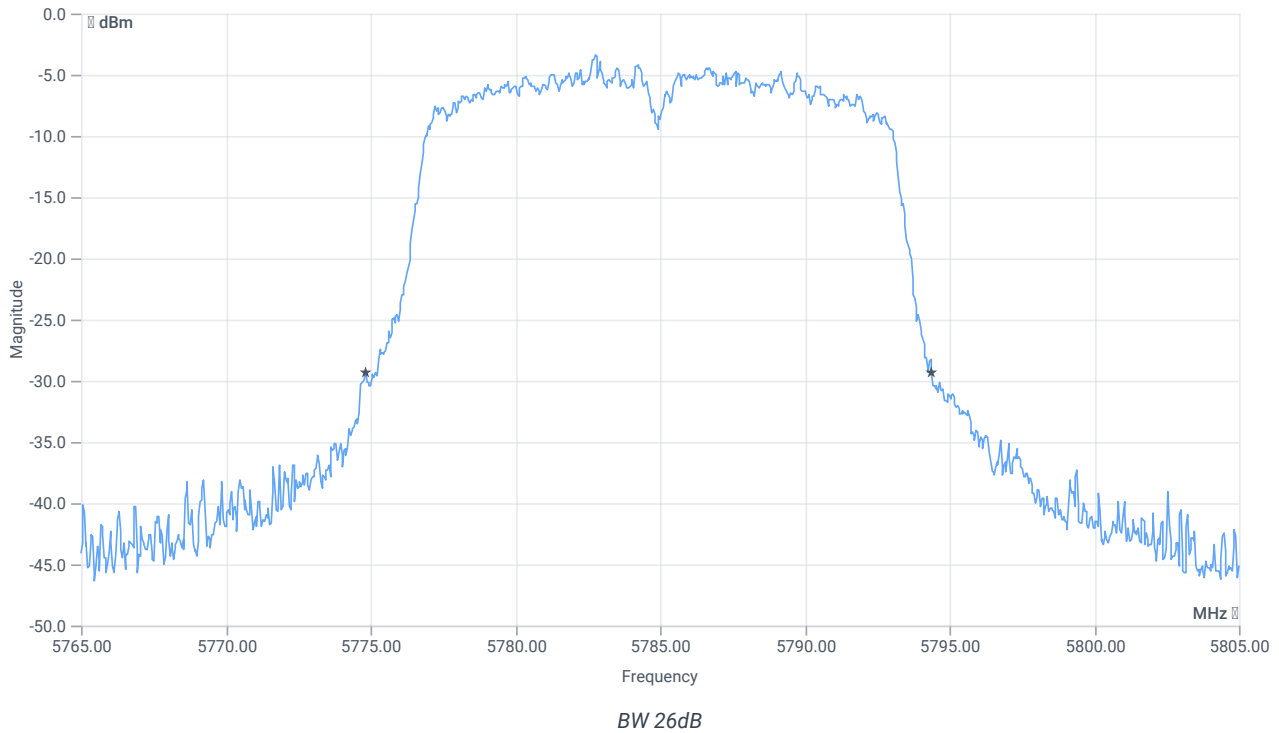
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 44					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.9	--	INFO
Duty cycle min	--	--	0.458	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



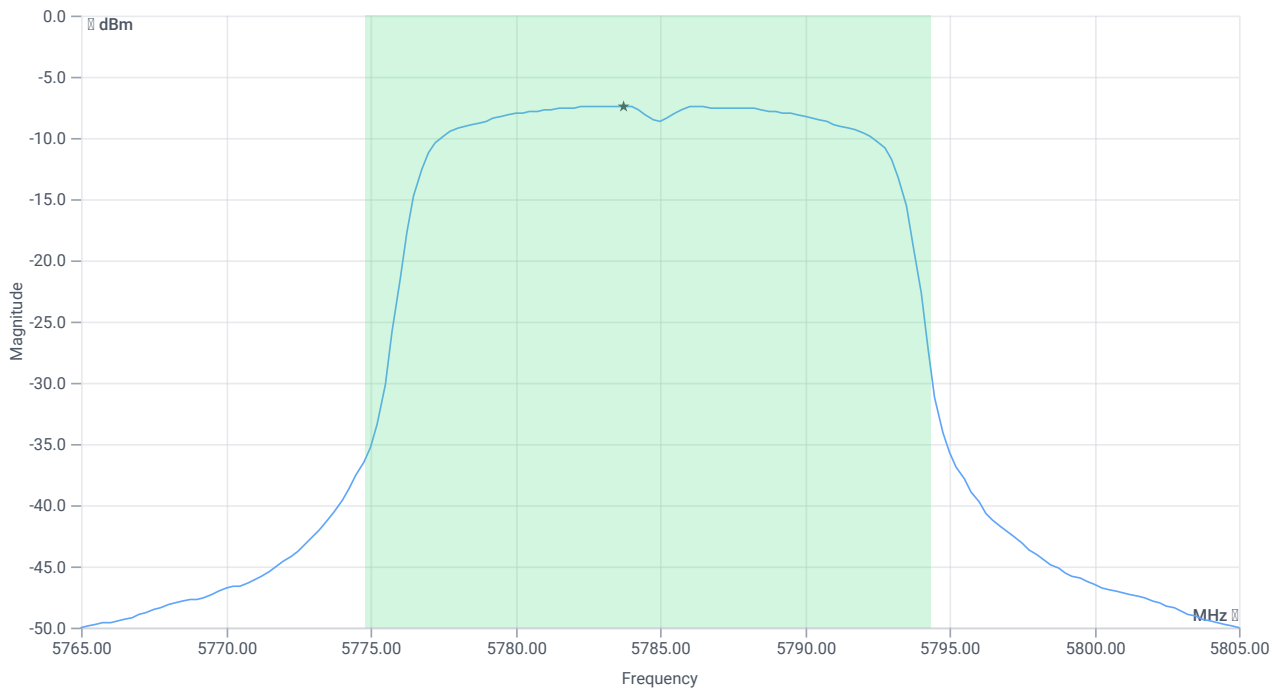
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.6	MHz	INFO
T1 26dB	---	---	5774.8000	MHz	INFO
T2 26dB	---	---	5794.4000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.71 10.41 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

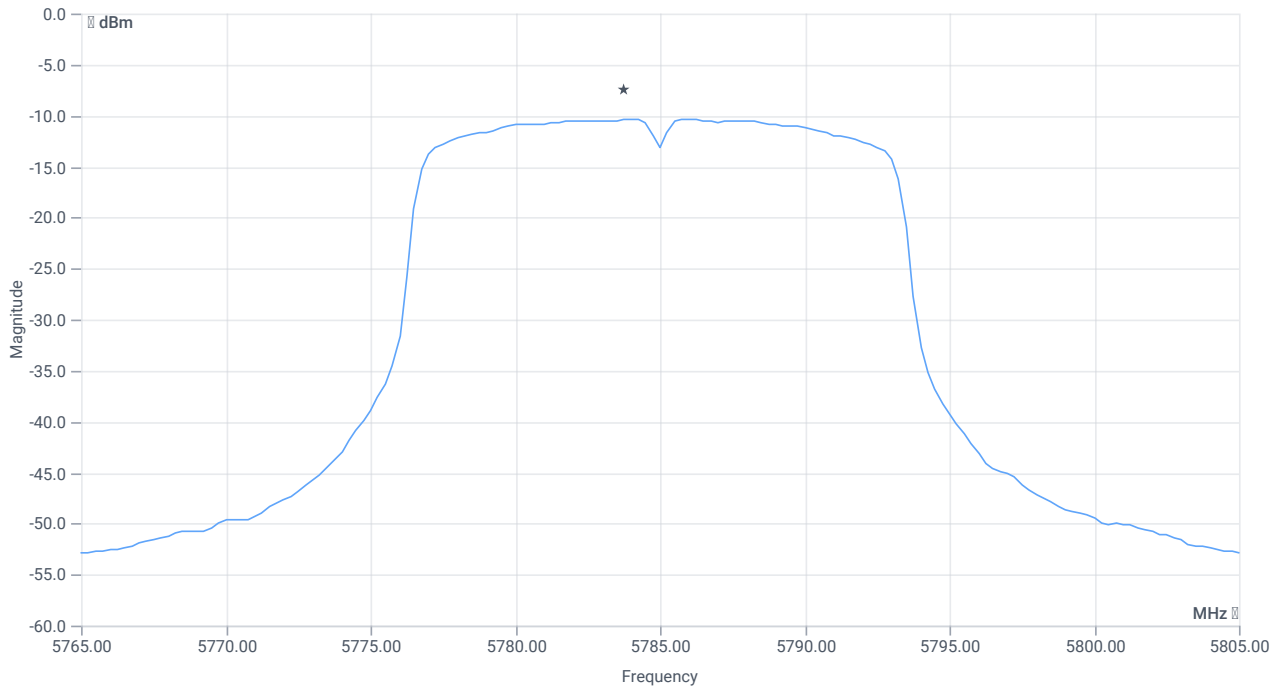
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	3.67	dBm	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	4.13	dBm	PASS
Limit: 11 dBm + 10 log 19.6					
Max output power DC corrected	--	23.92	4.13	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.71 10.41 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-10.36	dBm/0.5MHz	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Power spectral density DC corrected	--	30	-9.9	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:21:38
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5785 MHz

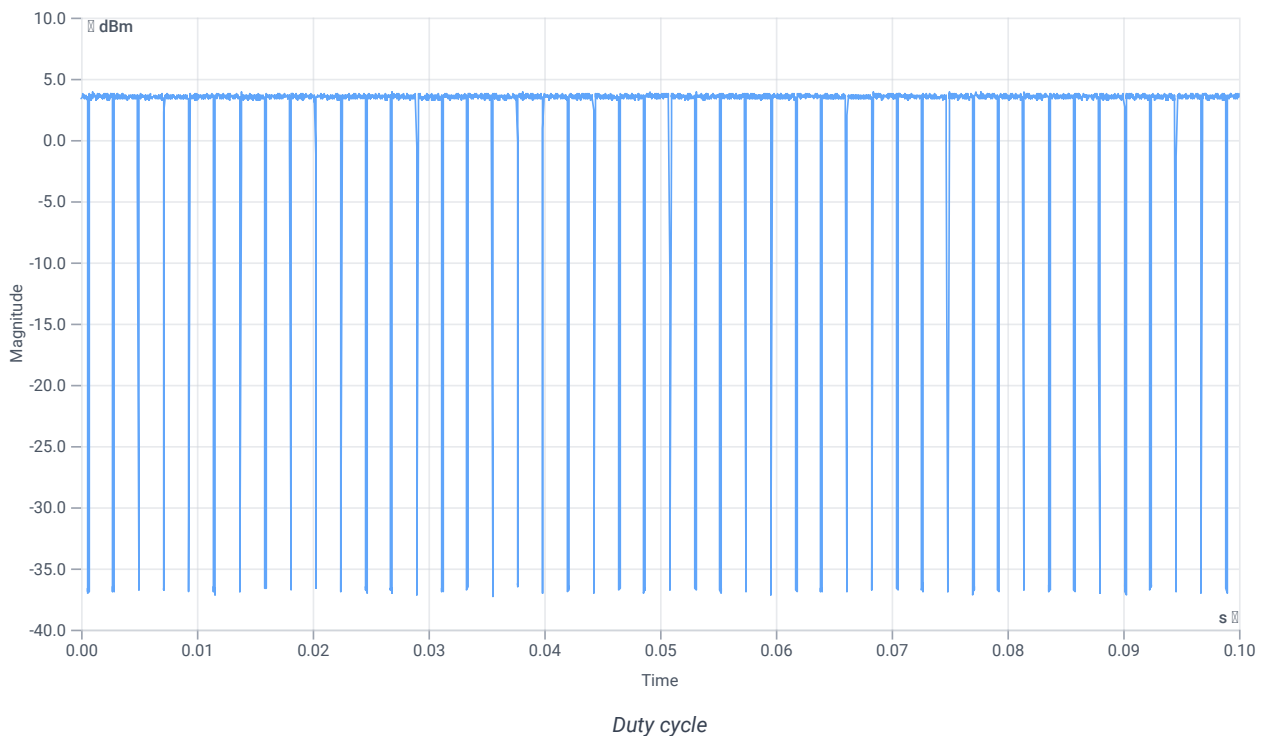
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	3.36	dBm	INFO
Ref. frequency	--	--	5787.800	MHz	INFO

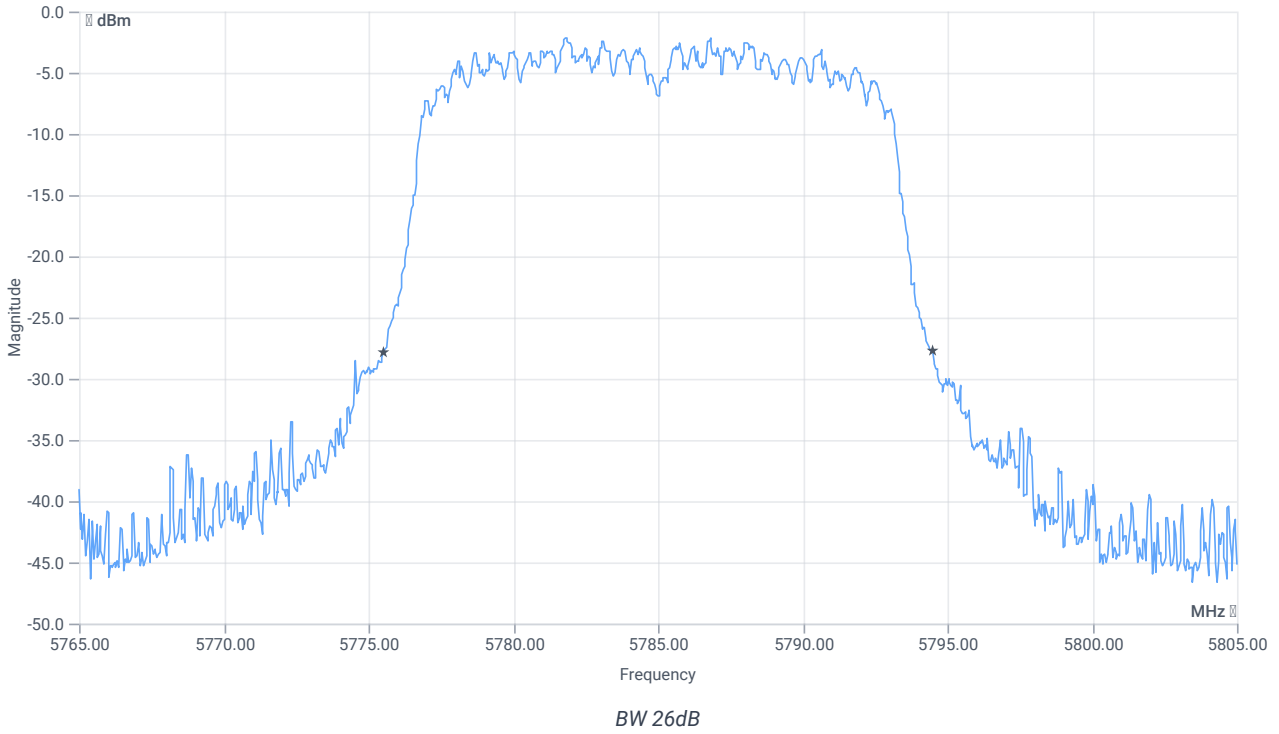
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.9	--	INFO
Duty cycle min	--	--	0.458	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



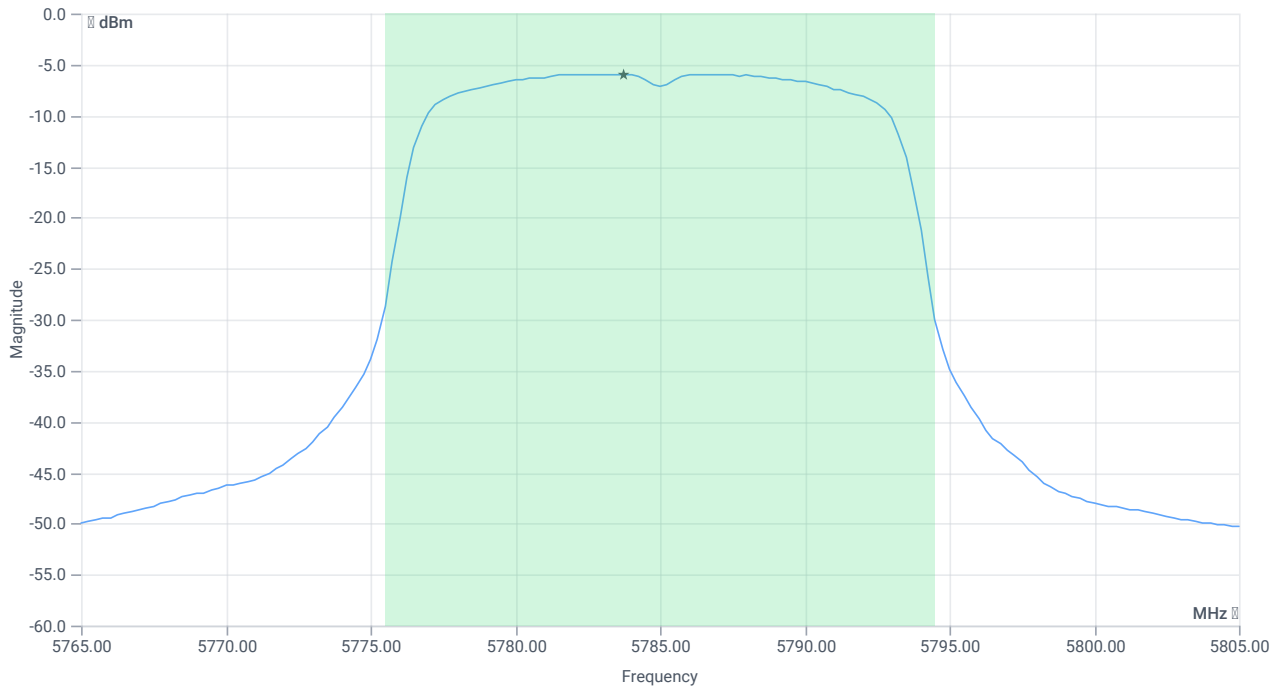
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	18.96	MHz	INFO
T1 26dB	---	---	5775.5200	MHz	INFO
T2 26dB	---	---	5794.4800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.36 10.38 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

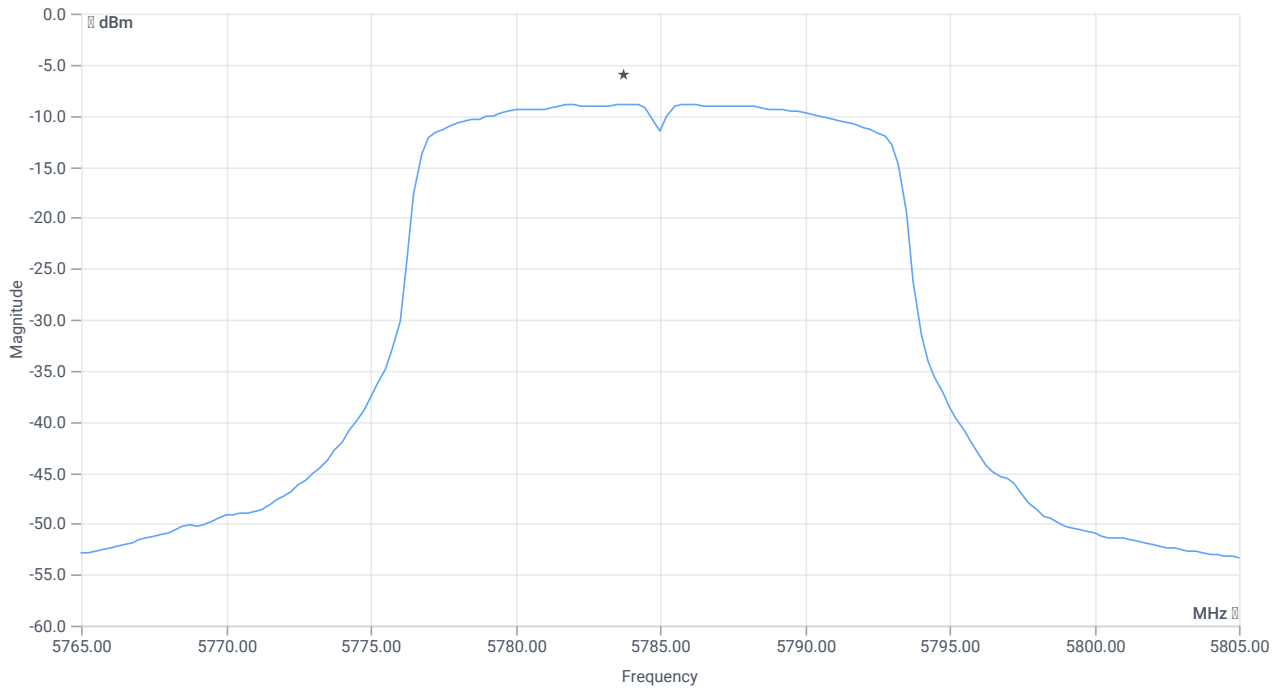
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	5.15	dBm	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	5.61	dBm	PASS
Limit: 11 dBm + 10 log 18.96					
Max output power DC corrected	--	23.78	5.61	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.36 10.38 20
Start [MHz] Stop [MHz]	5765.000 5805.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.85	dBm/0.5MHz	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Power spectral density DC corrected	--	30	-8.39	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:13:16
Ambit temp [°C] humidity [rel%]	26.6 36
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5745 MHz

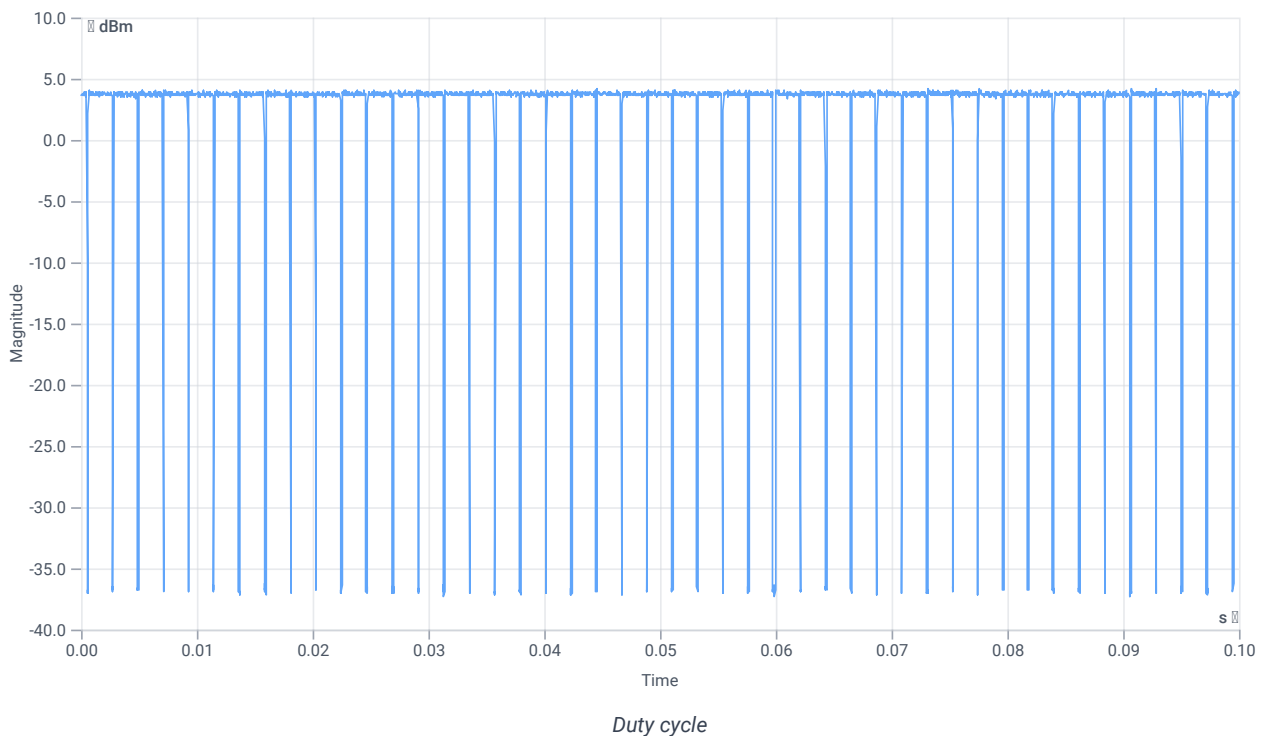
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.15	dBm	INFO
Ref. frequency	--	--	5747.000	MHz	INFO

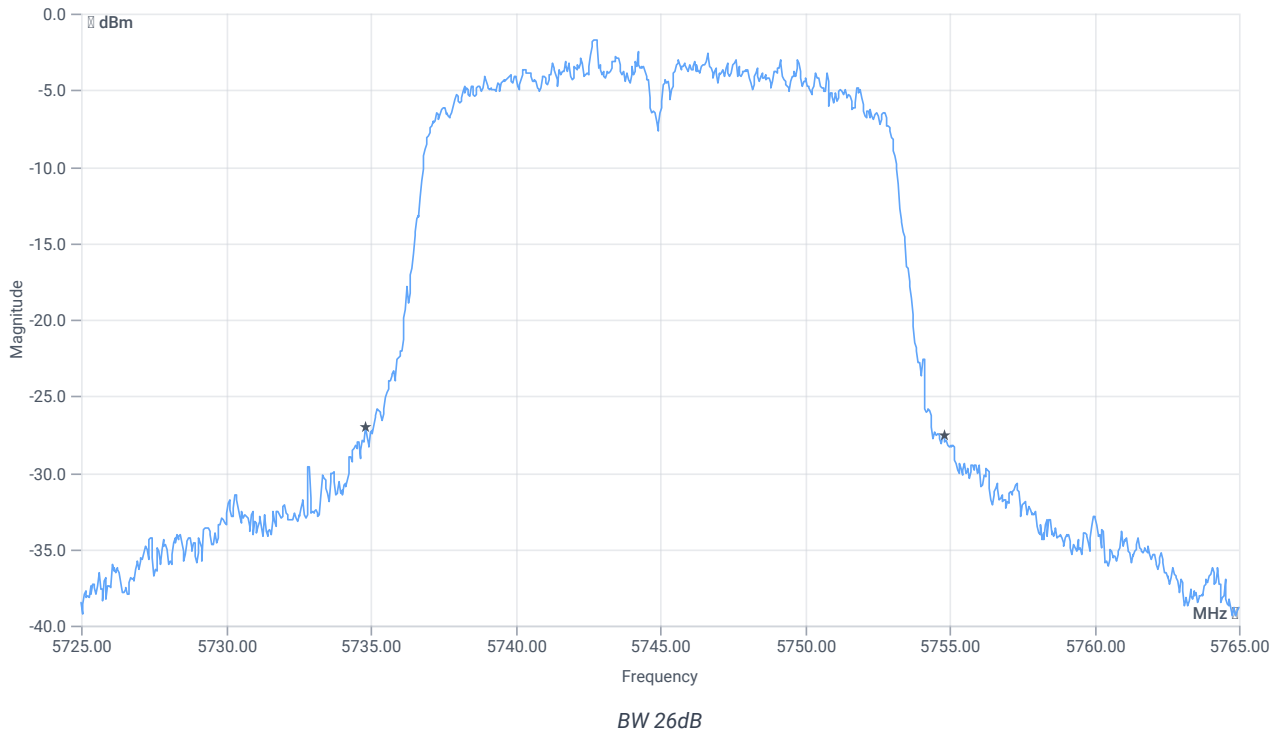
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.88	--	INFO
Duty cycle min	--	--	0.555	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.275	ms	INFO



Evaluation bandwidth



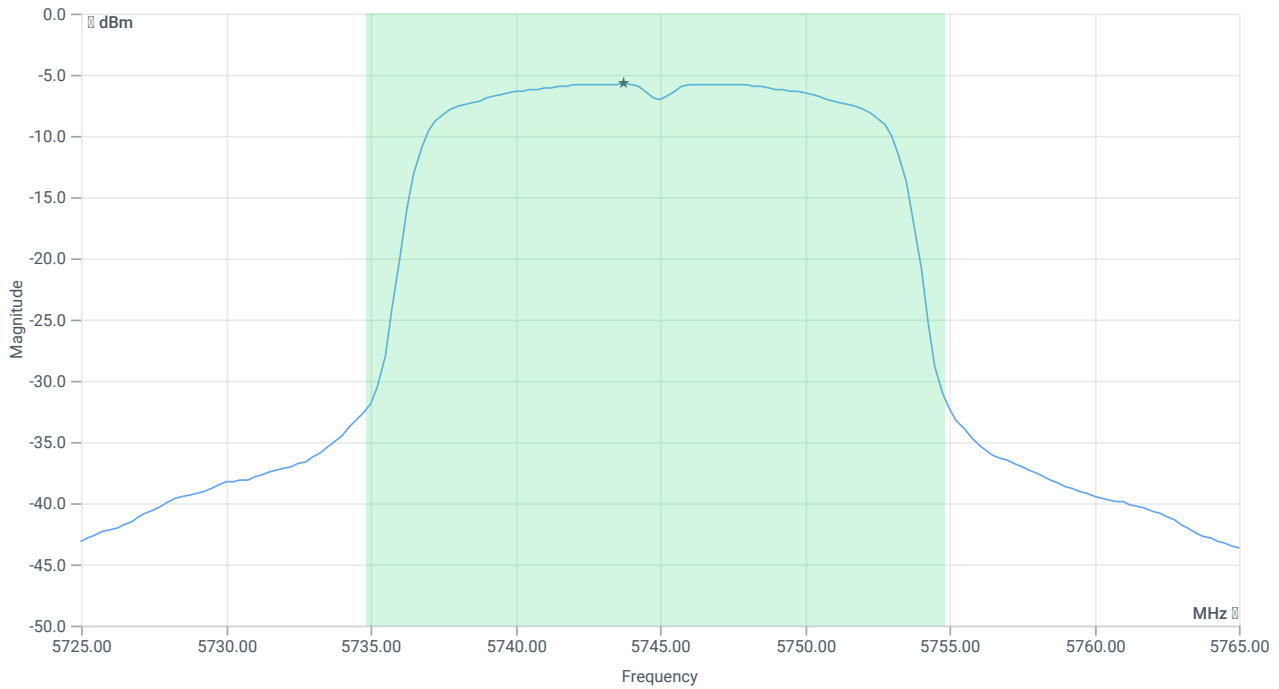
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20	MHz	INFO
T1 26dB	---	---	5734.8000	MHz	INFO
T2 26dB	---	---	5754.8000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.15 10.38 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

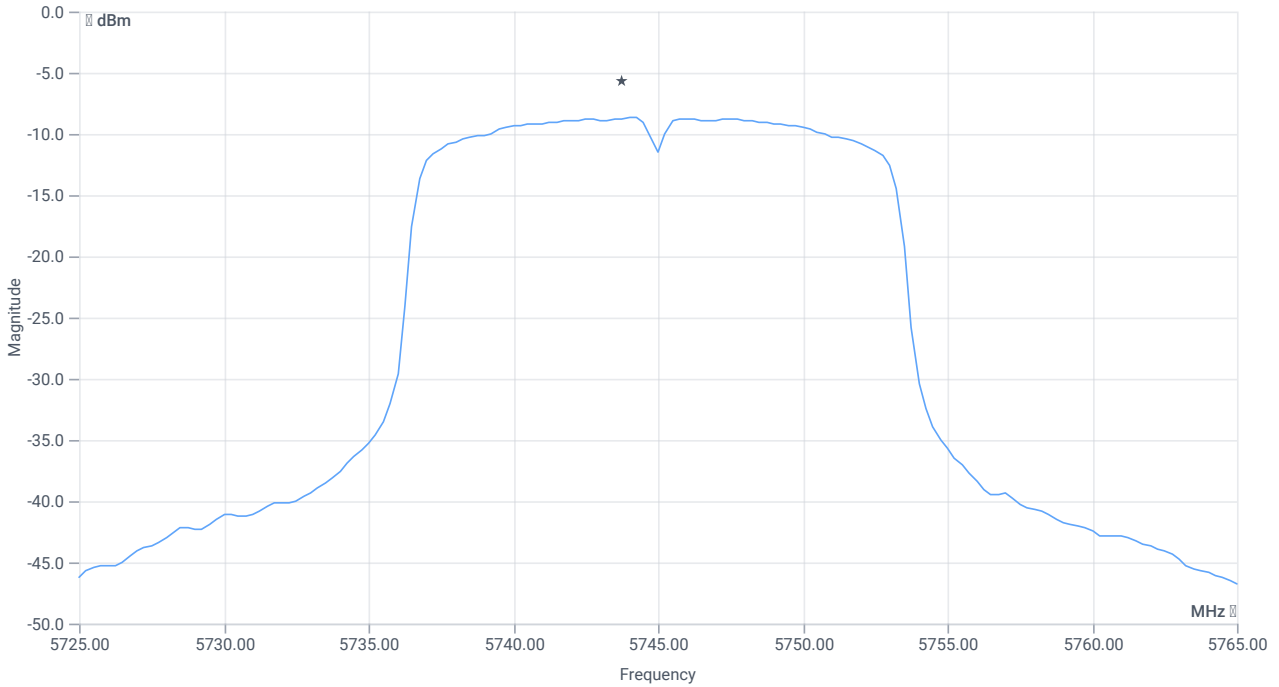
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	5.35	dBm	INFO
Duty cycle correction	--	--	0.56	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	5.91	dBm	PASS
Limit: 11 dBm + 10 log 20					
Max output power DC corrected	--	24.01	5.91	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.15 10.38 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.68	dBm/0.5MHz	INFO
Duty cycle correction	--	--	0.56	dB	INFO
Power spectral density DC corrected	--	30	-8.12	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:05:59
Ambit temp [°C] humidity [rel%]	26.5 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5745 MHz

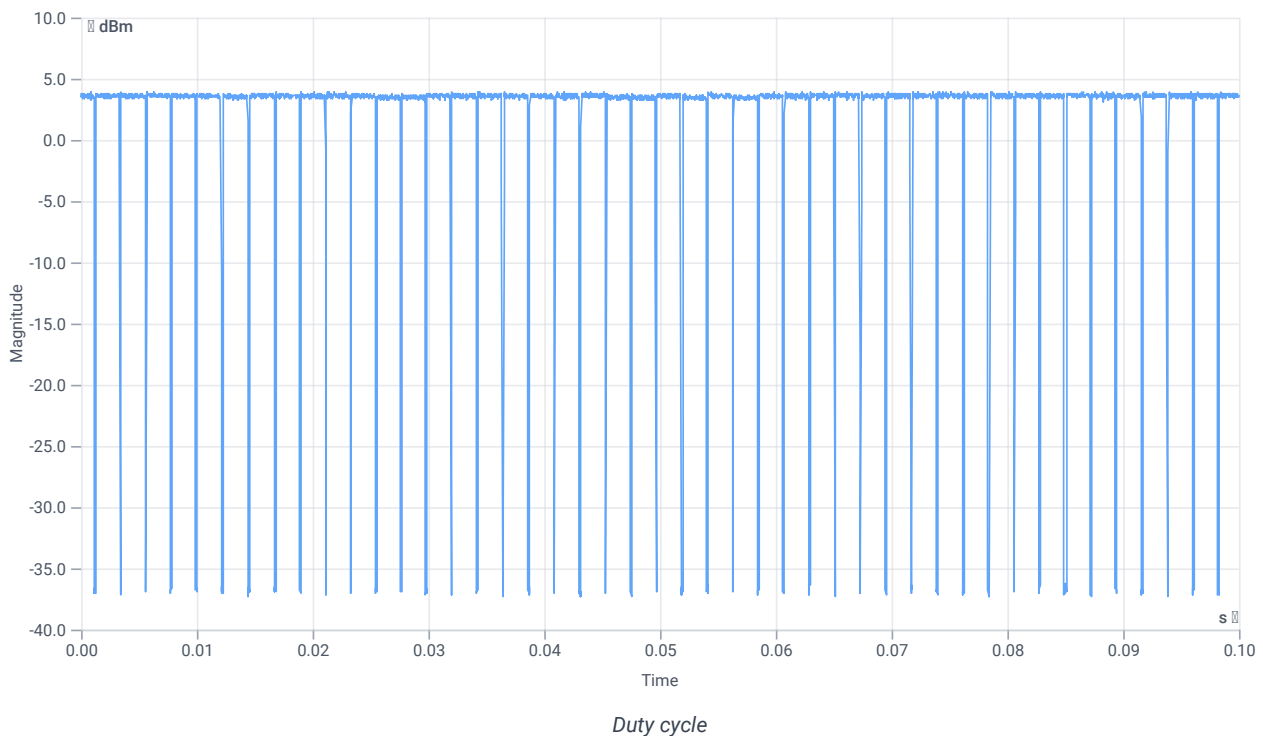
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.78	dBm	INFO
Ref. frequency	--	--	5741.400	MHz	INFO

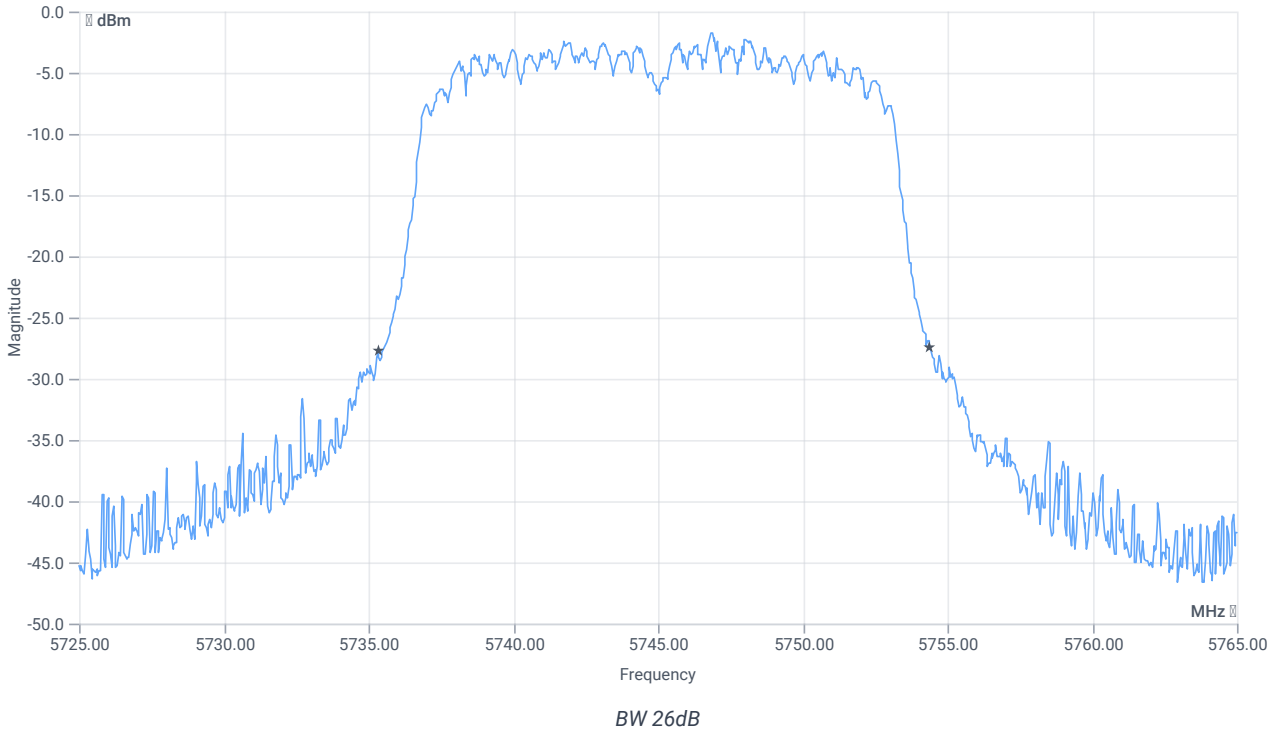
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 44					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.871	--	INFO
Duty cycle min	--	--	0.6	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.3	ms	INFO



Evaluation bandwidth



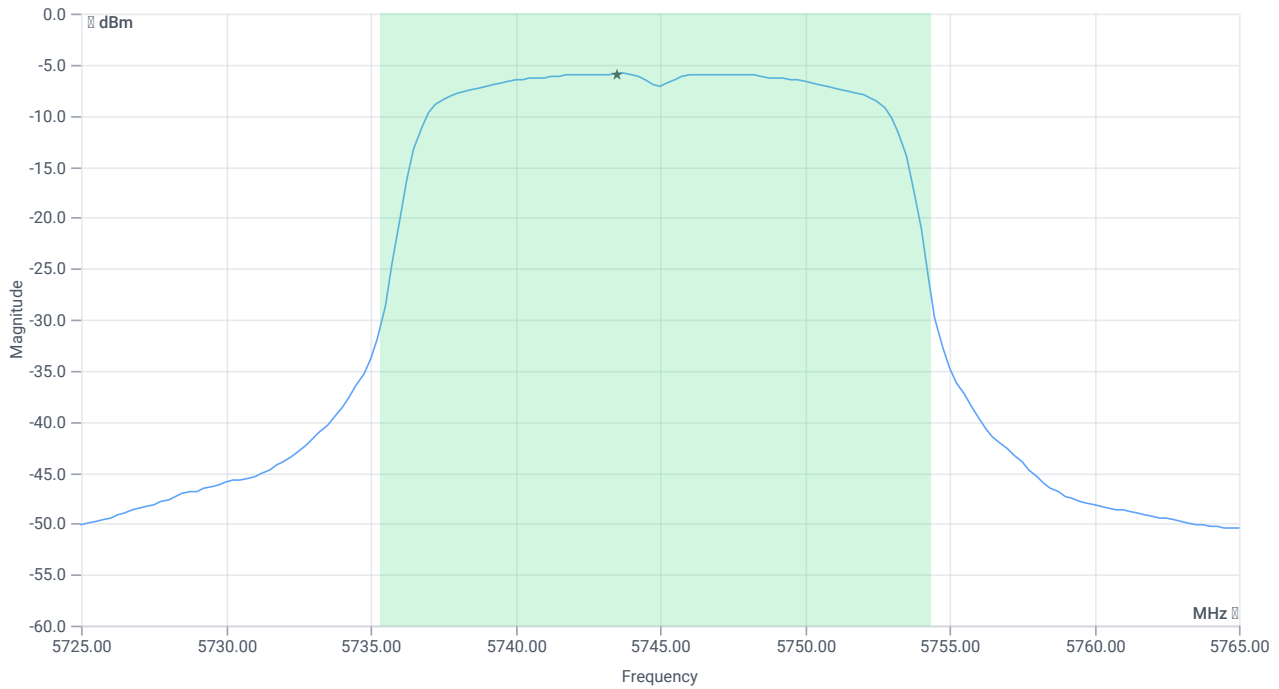
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.08	MHz	INFO
T1 26dB	---	---	5735.3200	MHz	INFO
T2 26dB	---	---	5754.4000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.78 10.36 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

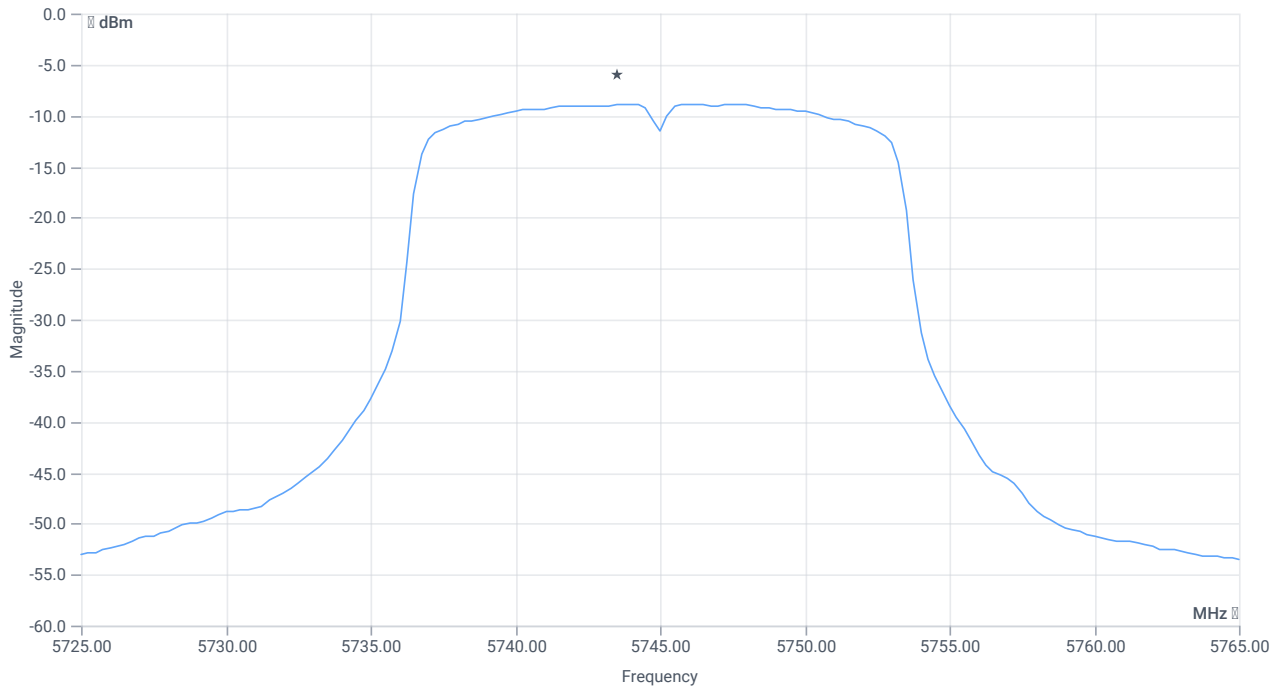
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	5.18	dBm	INFO
Duty cycle correction	--	--	0.6	dB	INFO
Limit absolute					
Max output power DC corrected	--	30	5.78	dBm	PASS
Limit: 11 dBm + 10 log 19.08					
Max output power DC corrected	--	23.81	5.78	dBm	na

Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.78 10.36 20
Start [MHz] Stop [MHz]	5725.000 5765.000
RBW [MHz] VBW [MHz]	0.500000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



PSD UNII-3

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-8.84	dBm/0.5MHz	INFO
Duty cycle correction	--	--	0.6	dB	INFO
Power spectral density DC corrected	--	30	-8.24	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

References

TC start	26.01.2024 15:00:35
Ambit temp [°C] humidity [rel%]	26.5 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5240 MHz

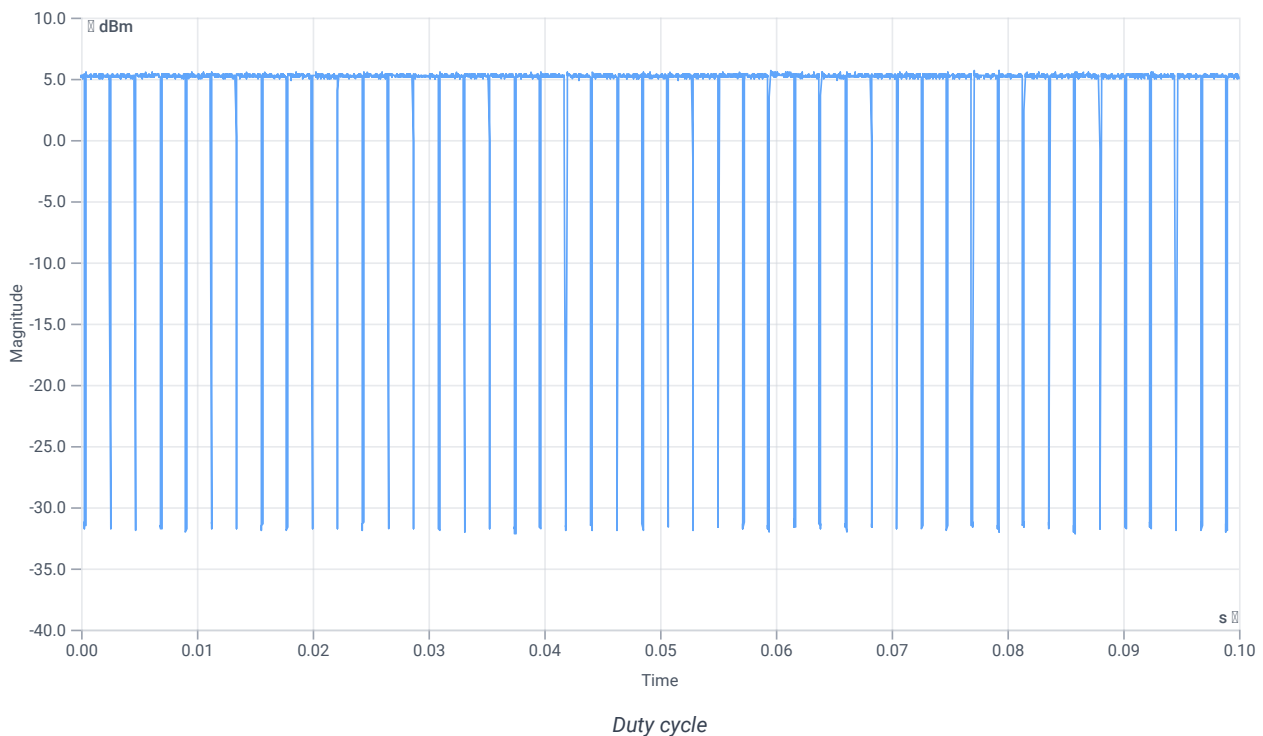
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	3.88	dBm	INFO
Ref. frequency	--	--	5241.400	MHz	INFO

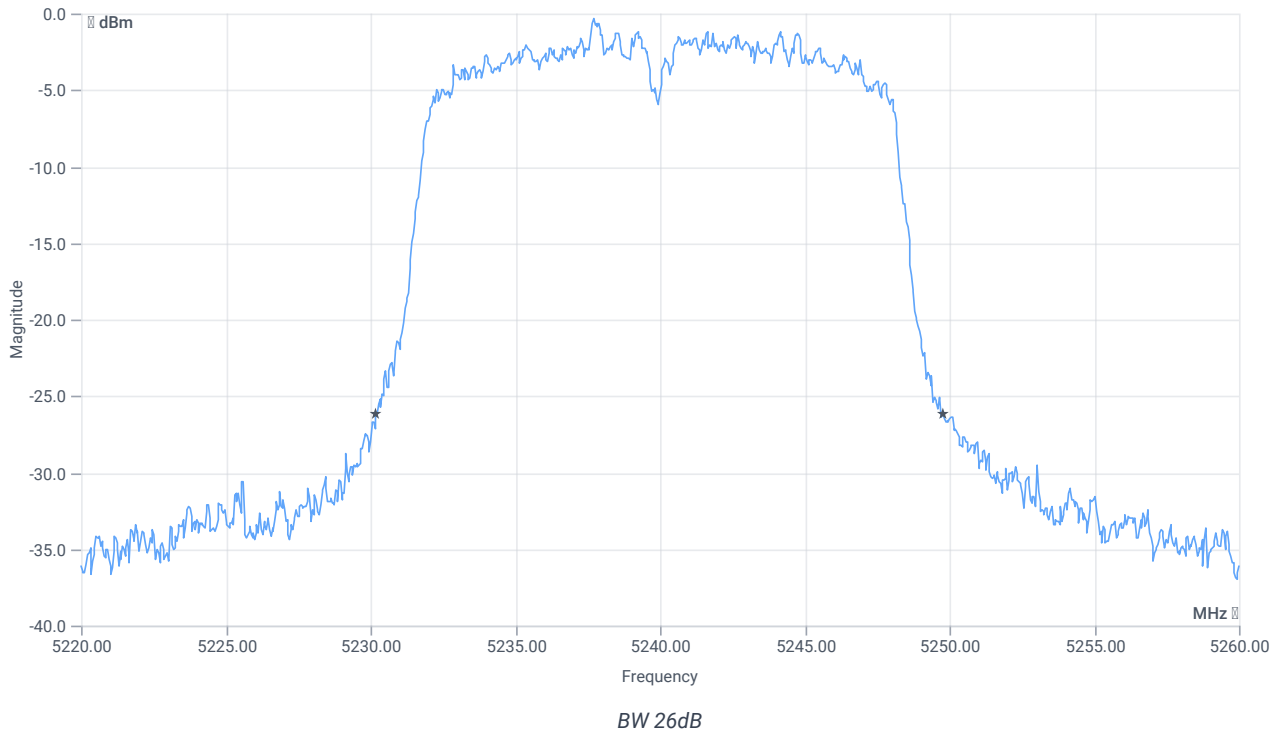
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.91	--	INFO
Duty cycle min	--	--	0.41	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.2	ms	INFO



Evaluation bandwidth



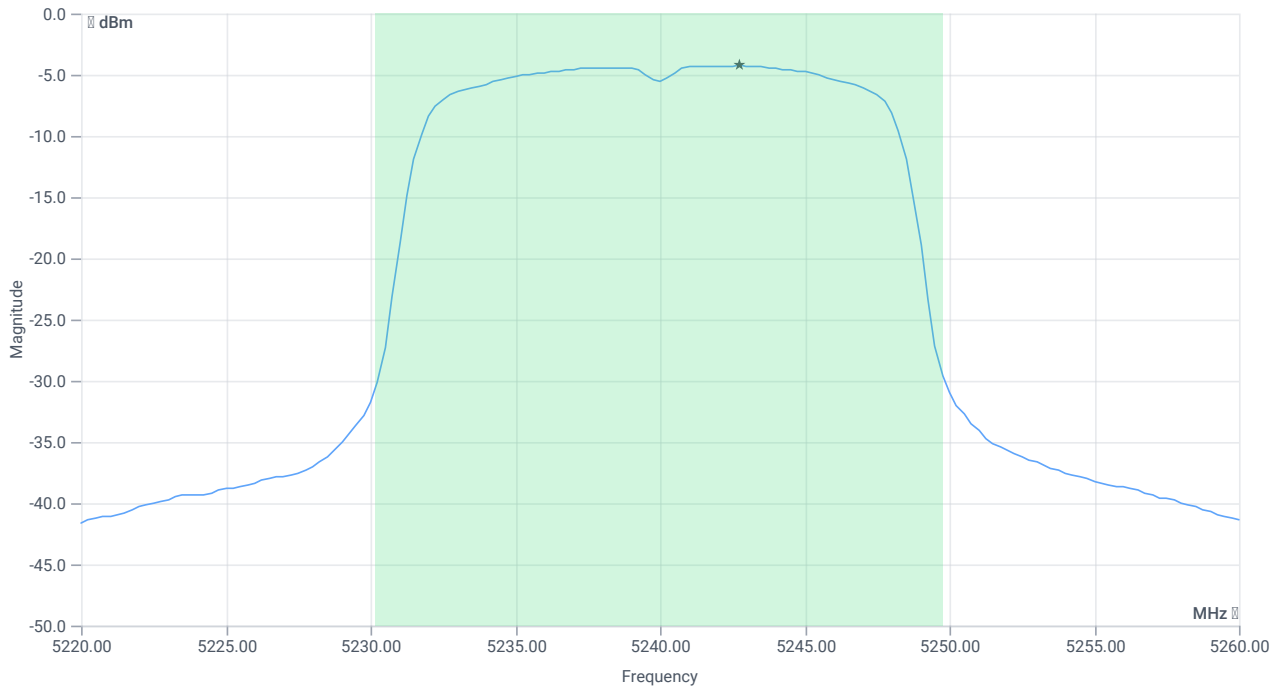
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.56	MHz	INFO
T1 26dB	---	---	5230.2000	MHz	INFO
T2 26dB	---	---	5249.7600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.88 9.93 20
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	6.81	dBm	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	7.22	dBm	PASS
Limit: 11 dBm + 10 log 19.56					
Max output power DC corrected	--	23.91	7.22	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-4.25	dBm/1MHz	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Power spectral density DC corrected	--	11	-3.84	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

References

TC start	26.01.2024 14:56:36
Ambit temp [°C] humidity [rel%]	26.5 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	True Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5240 MHz

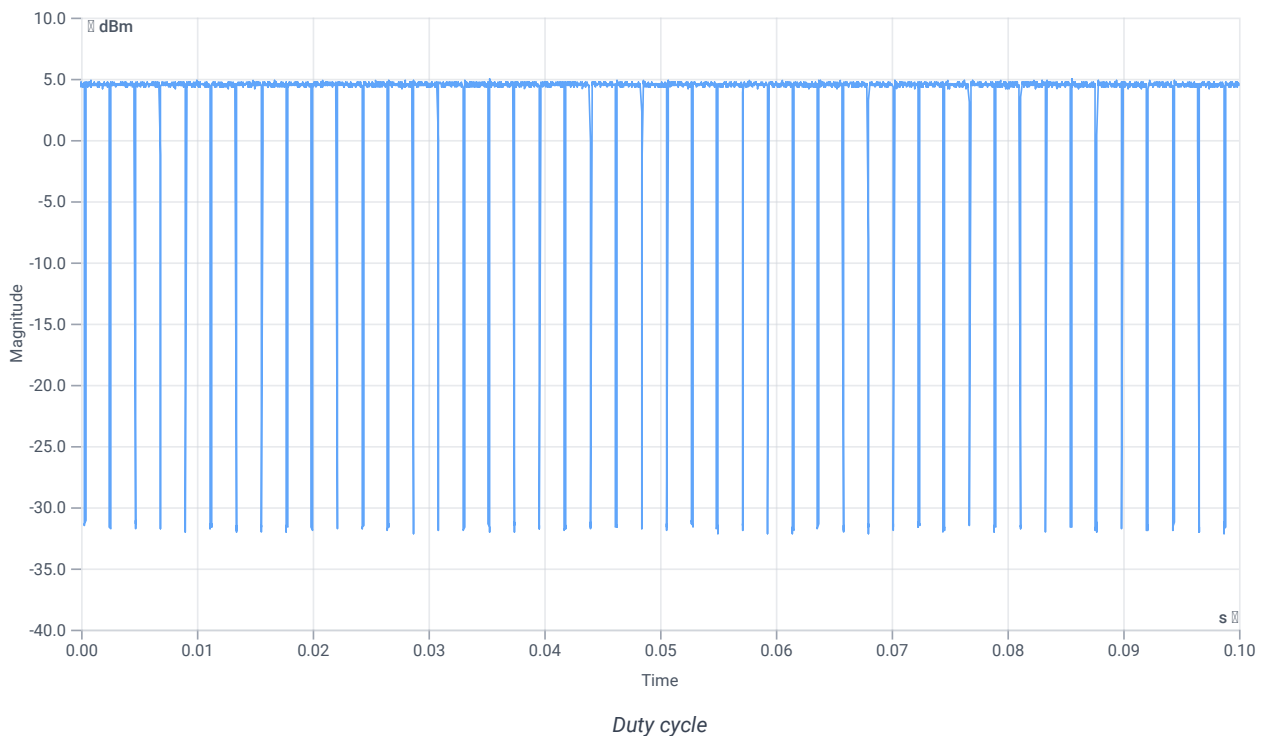
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	3.63	dBm	INFO
Ref. frequency	--	--	5245.390	MHz	INFO

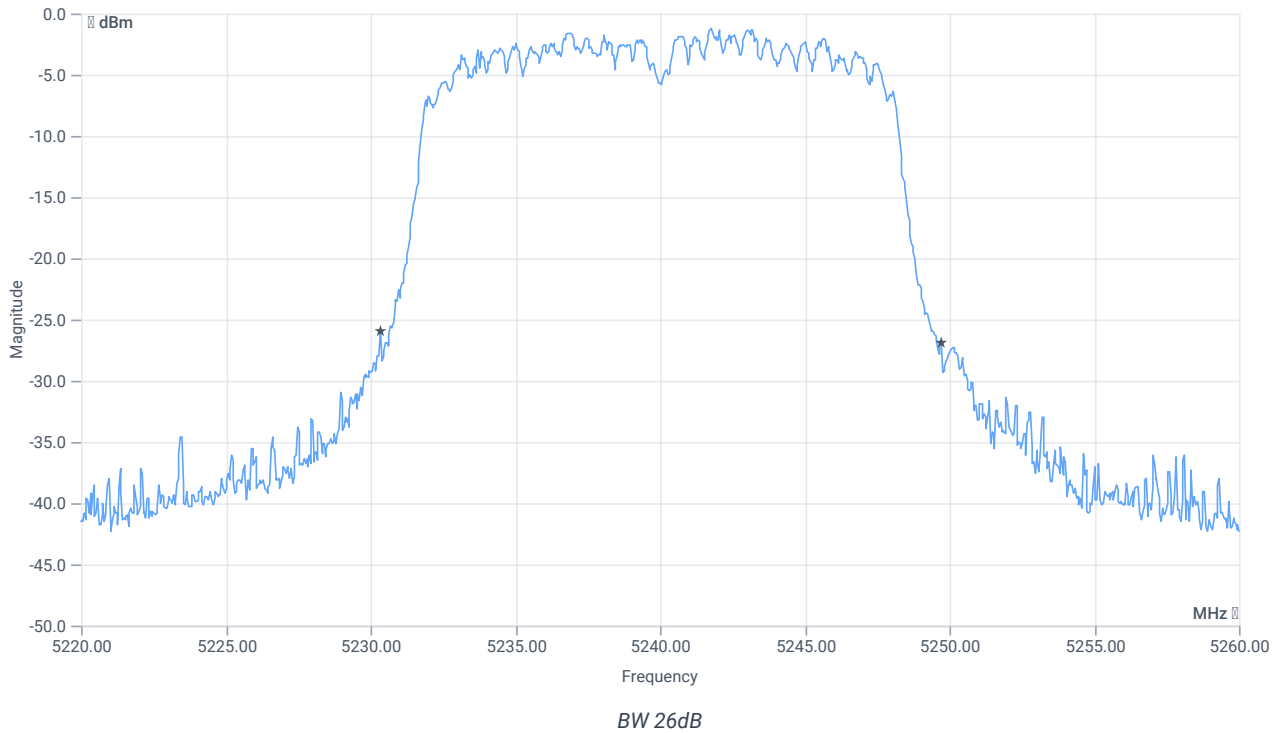
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.9	--	INFO
Duty cycle min	--	--	0.458	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



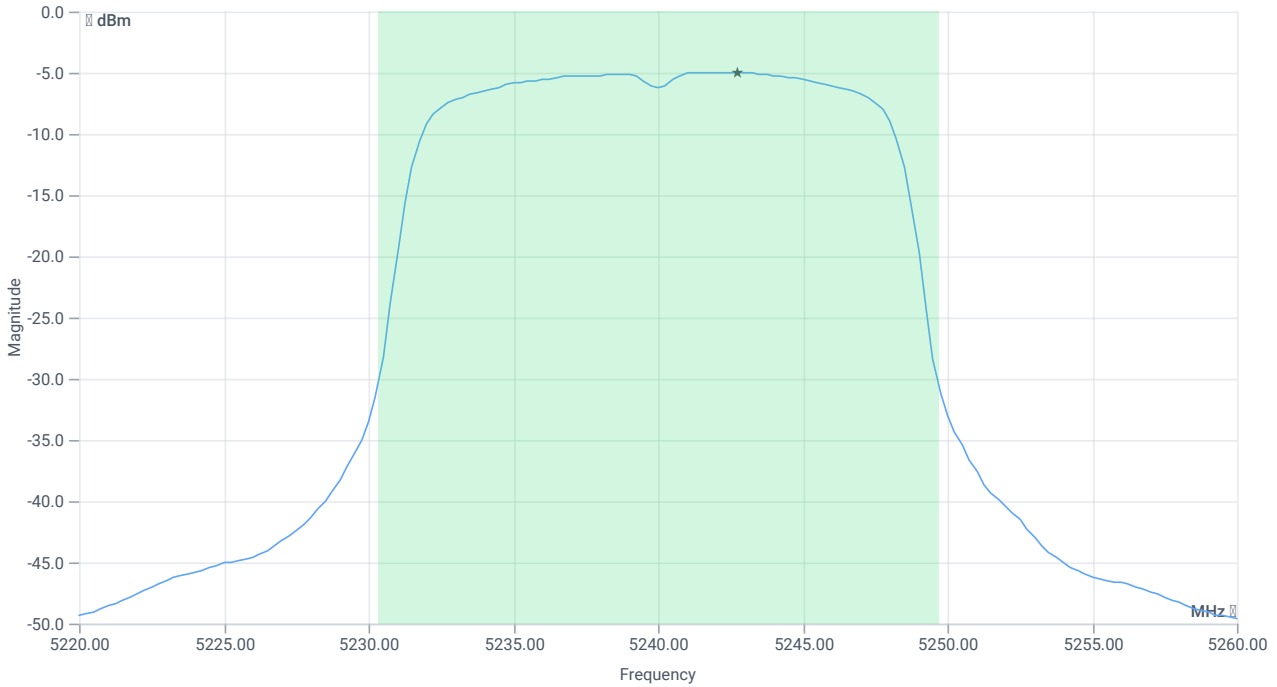
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.4	MHz	INFO
T1 26dB	---	---	5230.3200	MHz	INFO
T2 26dB	---	---	5249.7200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.63 9.92 20
Start [MHz] Stop [MHz]	5220.000 5260.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	6.09	dBm	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.55	dBm	PASS
Limit: 11 dBm + 10 log 19.4					
Max output power DC corrected	--	23.88	6.55	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-4.97	dBm/1MHz	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Power spectral density DC corrected	--	11	-4.51	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

References

TC start	26.01.2024 14:51:25
Ambit temp [°C] humidity [rel%]	26.4 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5200 MHz

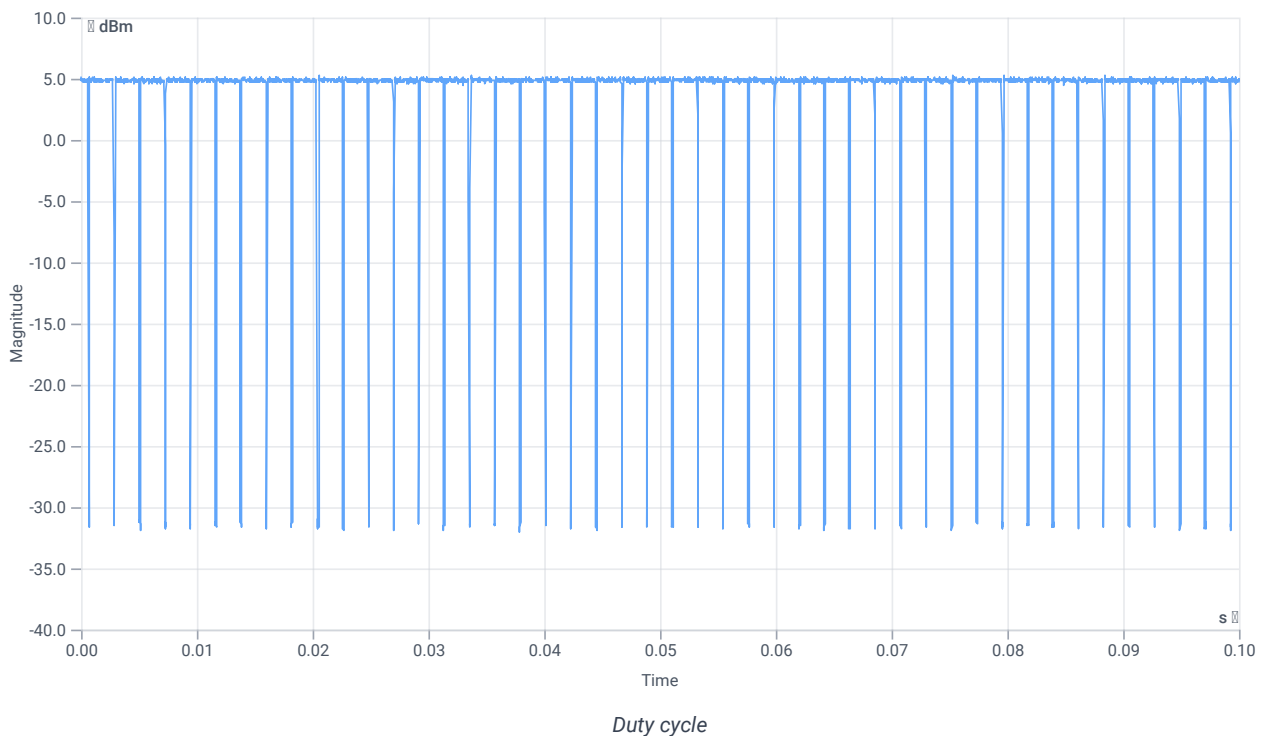
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	3.50	dBm	INFO
Ref. frequency	--	--	5202.600	MHz	INFO

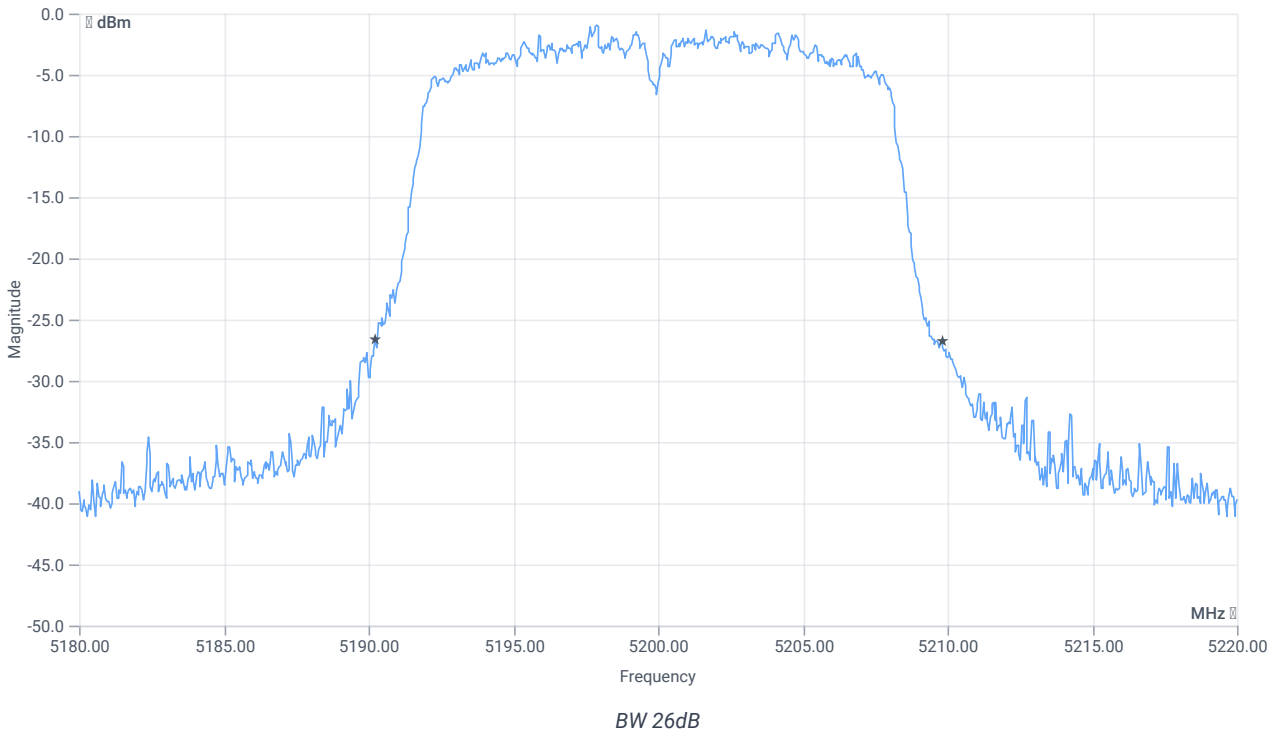
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.91	--	INFO
Duty cycle min	--	--	0.41	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.2	ms	INFO



Evaluation bandwidth



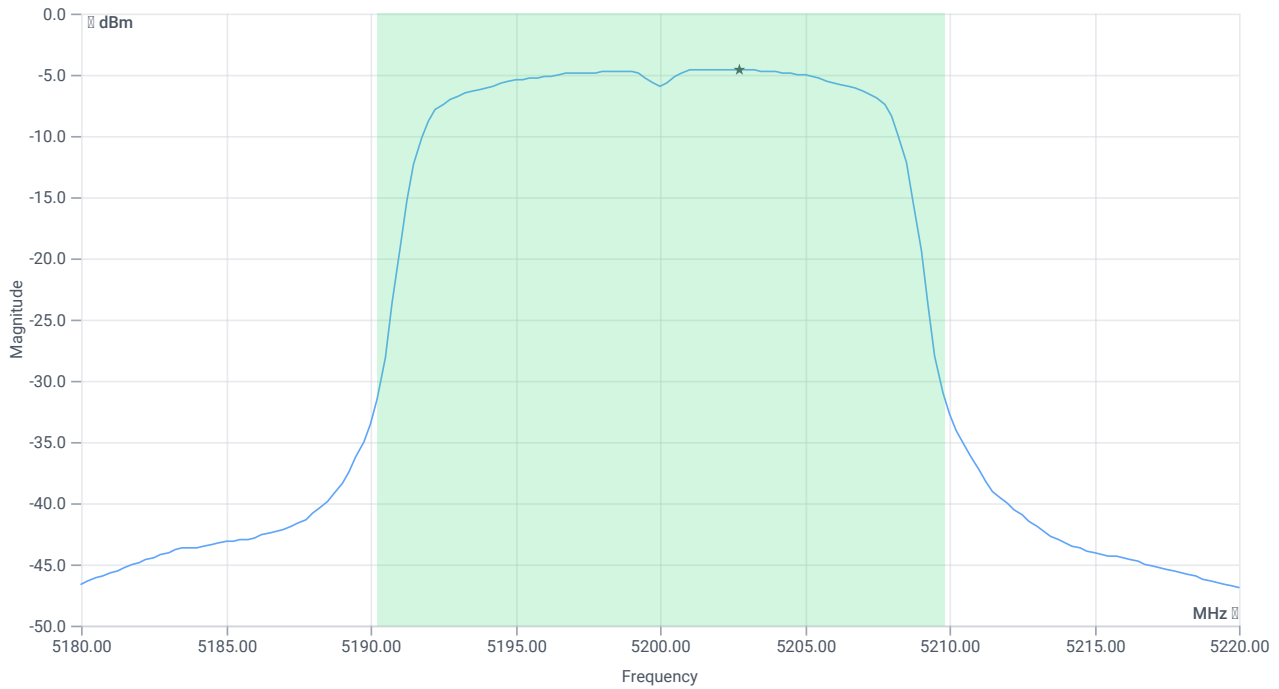
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.56	MHz	INFO
T1 26dB	---	---	5190.2400	MHz	INFO
T2 26dB	---	---	5209.8000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.50 10.08 20
Start [MHz] Stop [MHz]	5180.000 5220.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	6.51	dBm	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.92	dBm	PASS
Limit: 11 dBm + 10 log 19.56					
Max output power DC corrected	--	23.91	6.92	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-4.55	dBm/1MHz	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Power spectral density DC corrected	--	11	-4.14	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

References

TC start	26.01.2024 14:47:19
Ambit temp [°C] humidity [rel%]	26.3 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5180
Frequency mid to test	True Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5200 MHz

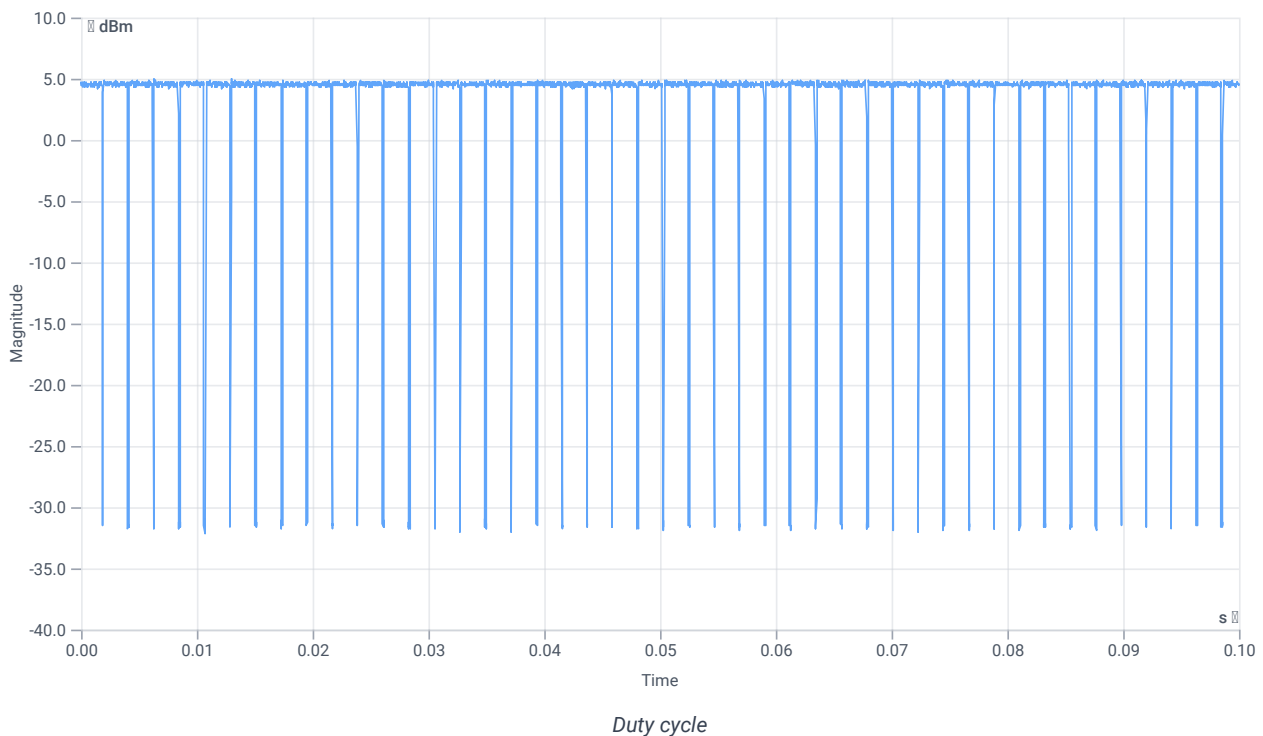
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	4.47	dBm	INFO
Ref. frequency	--	--	5201.800	MHz	INFO

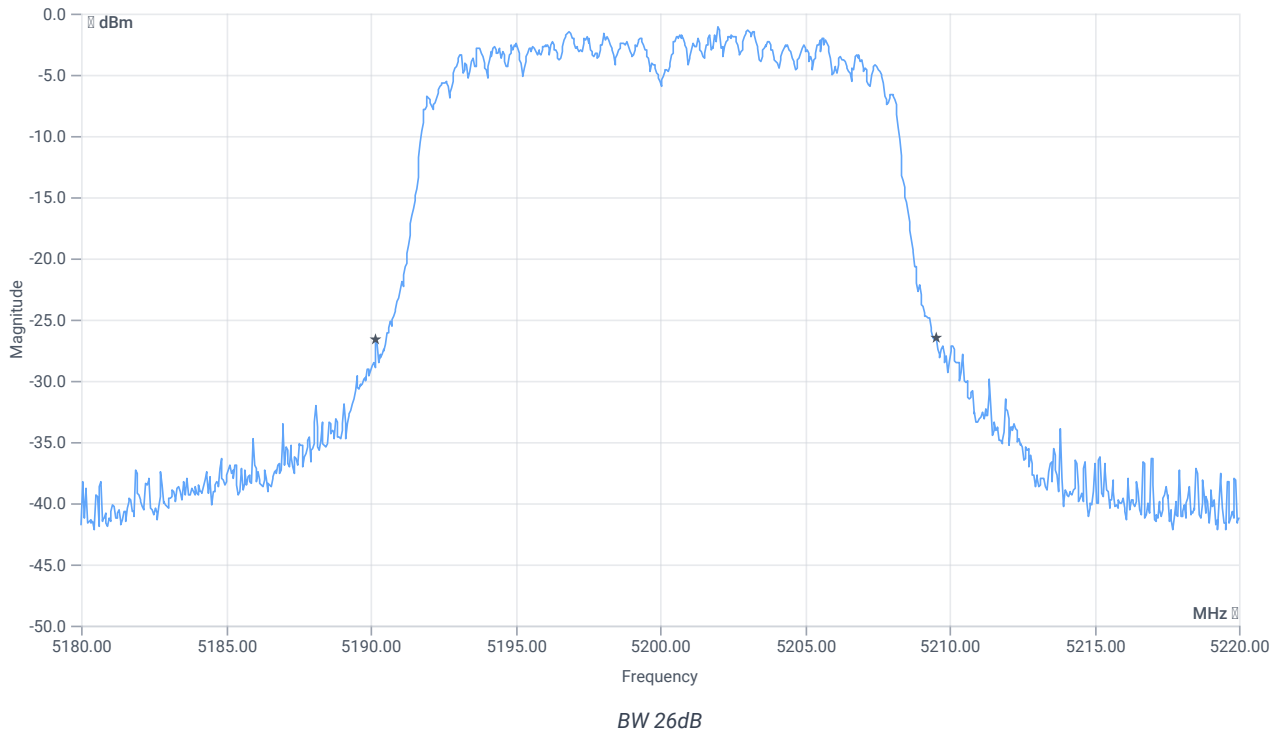
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 44					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.9	--	INFO
Duty cycle min	--	--	0.458	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.225	ms	INFO



Evaluation bandwidth



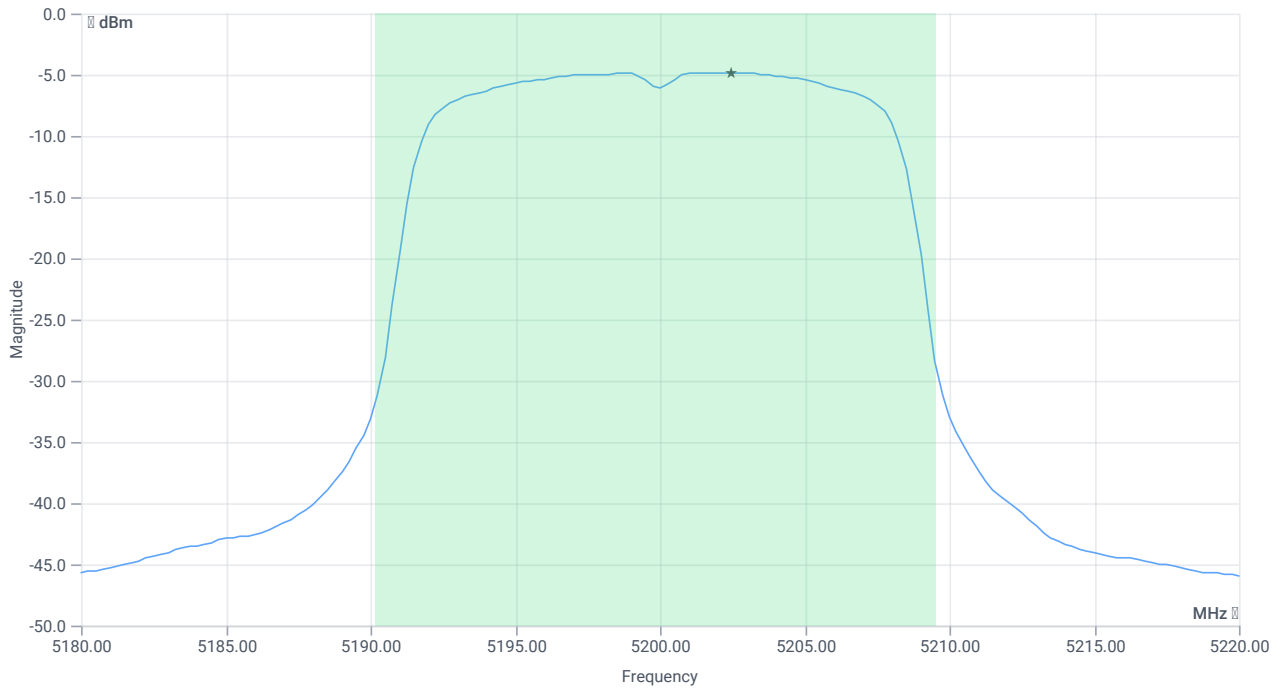
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.36	MHz	INFO
T1 26dB	---	---	5190.2000	MHz	INFO
T2 26dB	---	---	5209.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.47 10.05 25
Start [MHz] Stop [MHz]	5180.000 5220.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	6.24	dBm	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	6.7	dBm	PASS
Limit: 11 dBm + 10 log 19.36					
Max output power DC corrected	--	23.87	6.7	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-4.82	dBm/1MHz	INFO
Duty cycle correction	--	--	0.46	dB	INFO
Power spectral density DC corrected	--	11	-4.36	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-1

References

TC start	26.01.2024 14:35:41
Ambit temp [°C] humidity [rel%]	26.2 37
System version	5.0.1.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-1
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5180
Frequency mid to test	False Freq [MHz] 5200
Frequency high to test	False Freq [MHz] 5240
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

Test at TX 5180 MHz

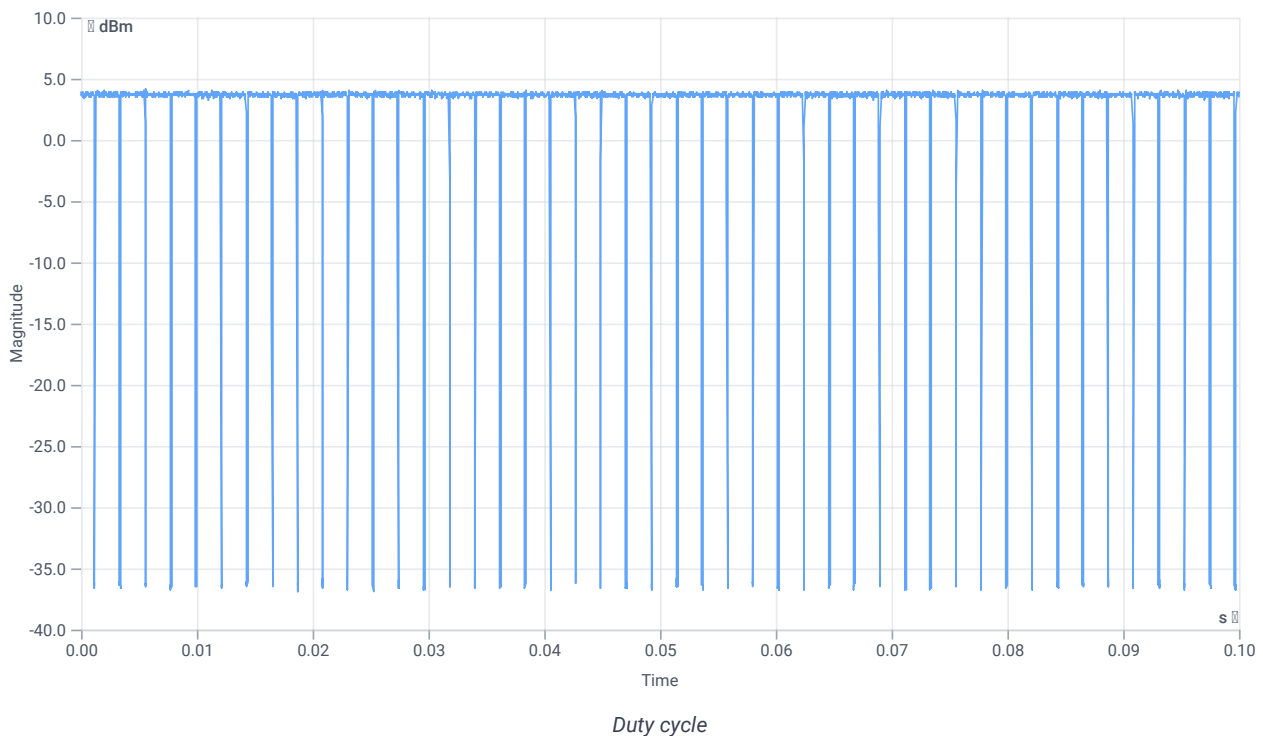
RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.56	dBm	INFO
Ref. frequency	--	--	5185.390	MHz	INFO

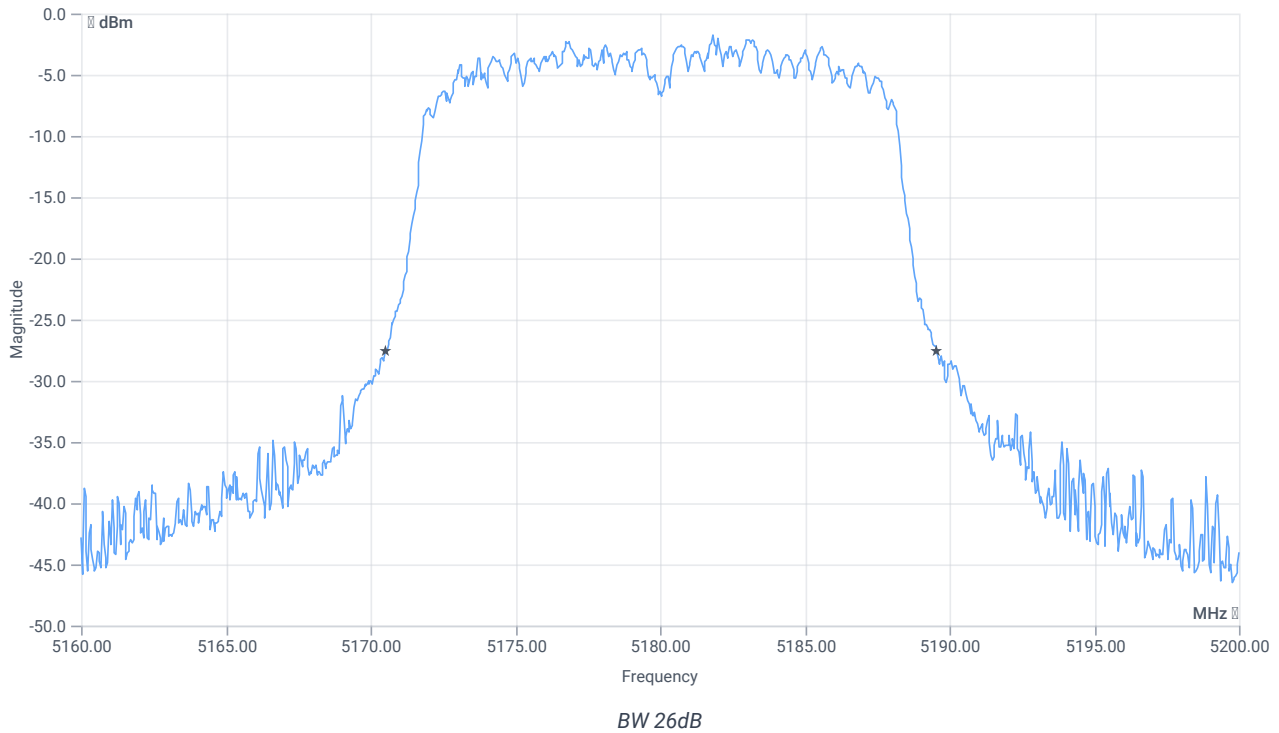
Evaluation max. duty cycle

DUTY CYCLE EVALUATION

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Result summary					
Number of detected bursts: 45					
Duty cycle (burst Ratio) max	--	--	0.943	--	INFO
Duty cycle max	--	--	0.255	dB	INFO
Duty cycle (burst Ratio) min	--	--	0.91	--	INFO
Duty cycle min	--	--	0.41	dB	INFO
Max TX burst length	--	--	2.05	ms	INFO
Min gap length	--	--	0.125	ms	INFO
Max gap length	--	--	0.2	ms	INFO



Evaluation bandwidth



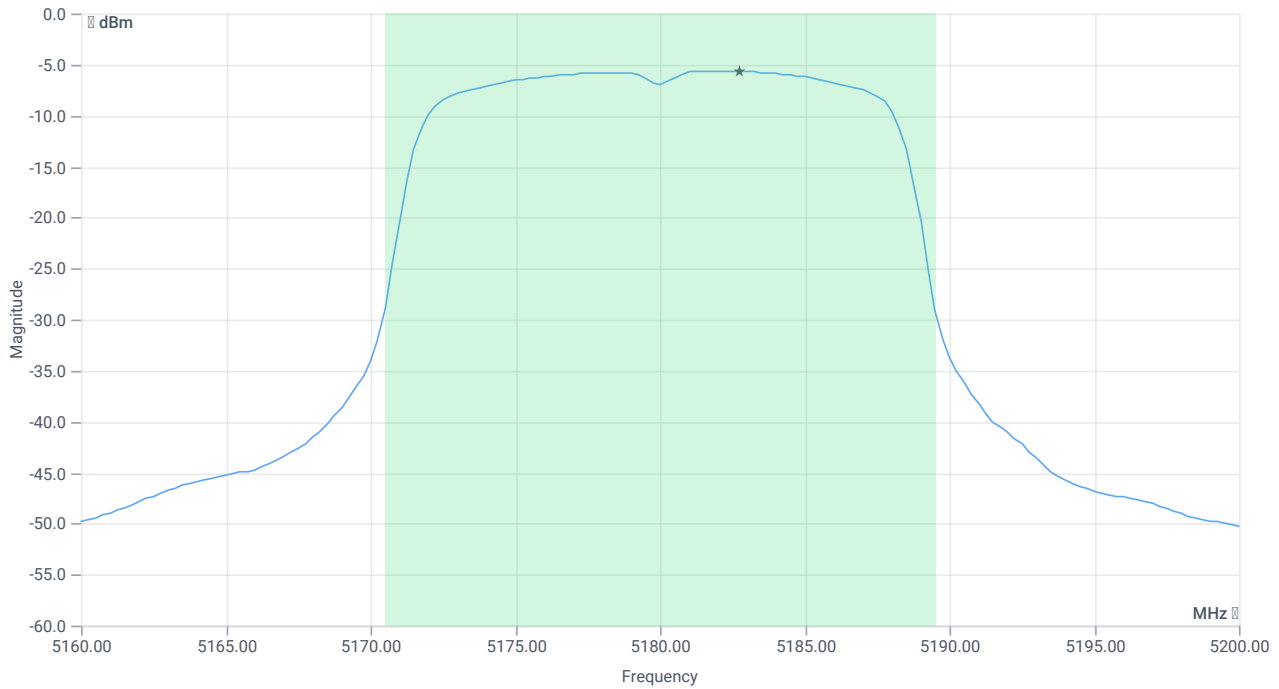
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.04	MHz	INFO
T1 26dB	---	---	5170.5200	MHz	INFO
T2 26dB	---	---	5189.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.56 9.99 20
Start [MHz] Stop [MHz]	5160.000 5200.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Max output power	--	--	5.39	dBm	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Limit absolute					
Max output power DC corrected	--	24	5.8	dBm	PASS
Limit: 11 dBm + 10 log 19.04					
Max output power DC corrected	--	23.8	5.8	dBm	na

Power spectral density

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Power spectral density	--	--	-5.67	dBm/1MHz	INFO
Duty cycle correction	--	--	0.41	dB	INFO
Power spectral density DC corrected	--	11	-5.26	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

References

TC start	14.05.2024 14:27:53
Ambit temp [°C] humidity [rel%]	27.9 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5260 MHz

RESULT: Reference power cond.

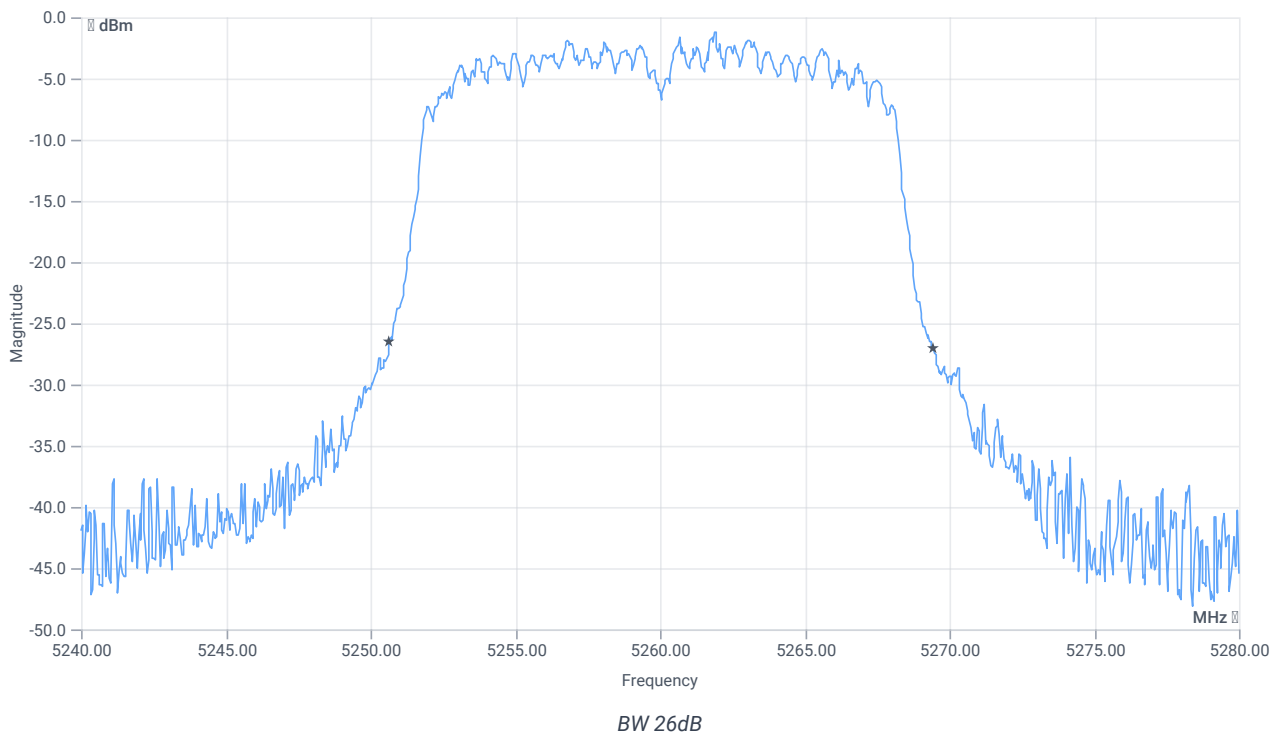
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.88	dBm	INFO
Ref. frequency	---	---	5262.600	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	18.8	MHz	INFO
T1 26dB	---	---	5250.6400	MHz	INFO
T2 26dB	---	---	5269.4400	MHz	INFO

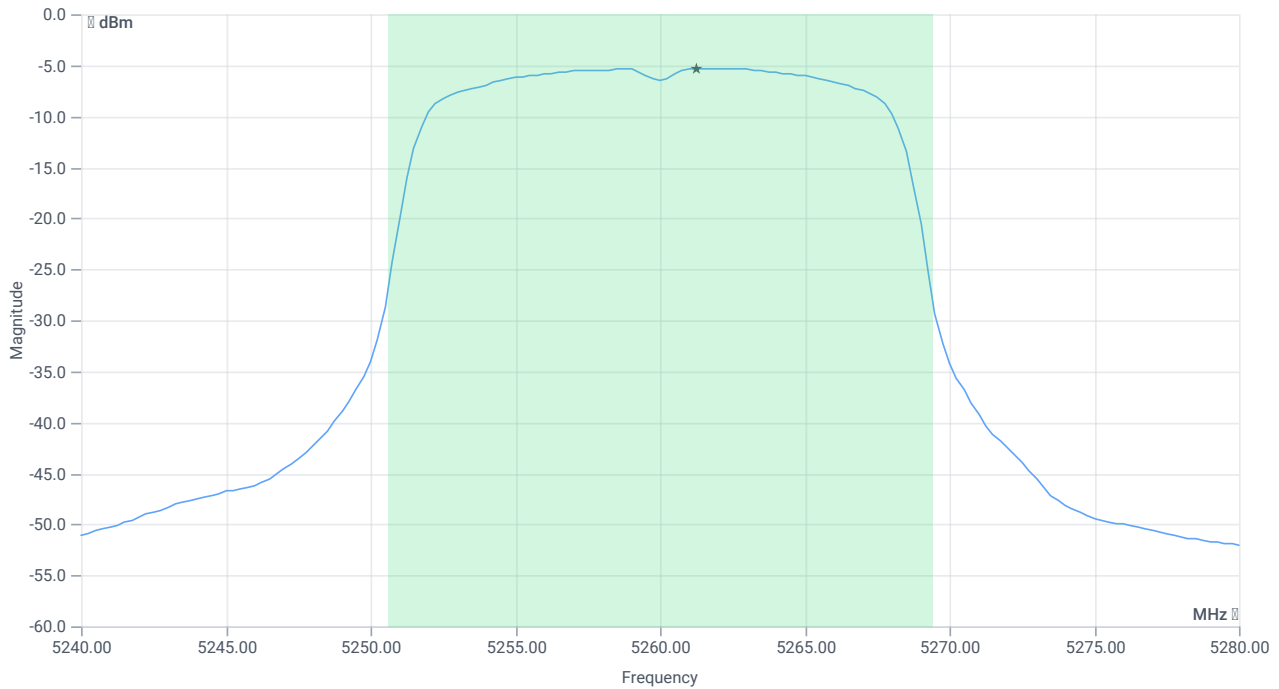
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5260 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	15.88 13.25 20
Start [MHz] Stop [MHz]	5240.000 5280.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	5.68	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	5.68	dBm	PASS
LIMIT: 11 dBm + 10 log 18.8					
Max output power DC corrected cond	---	23.74	5.68	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	9.38	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-5.35	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-5.35	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

References

TC start	14.05.2024 14:31:33
Ambit temp [°C] humidity [rel%]	28.0 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5260 MHz

RESULT: Reference power cond.

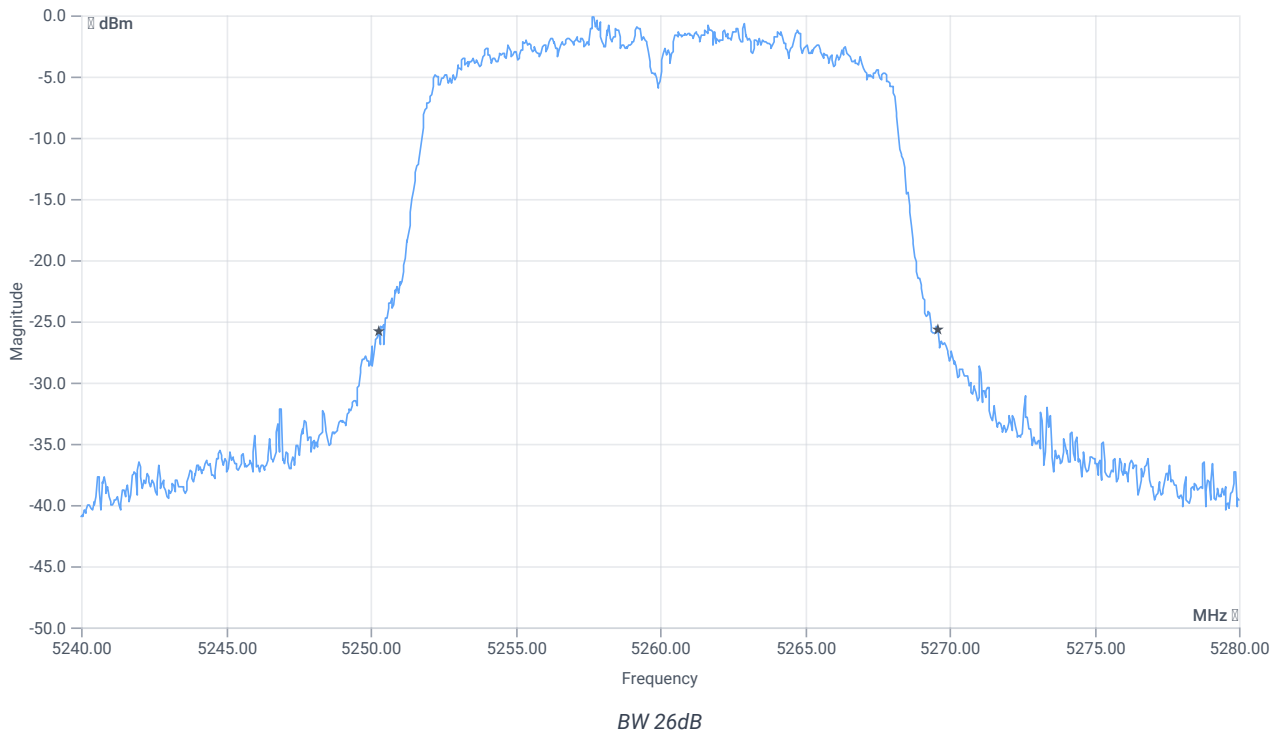
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.29	dBm	INFO
Ref. frequency	---	---	5262.200	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.32	MHz	INFO
T1 26dB	---	---	5250.2800	MHz	INFO
T2 26dB	---	---	5269.6000	MHz	INFO

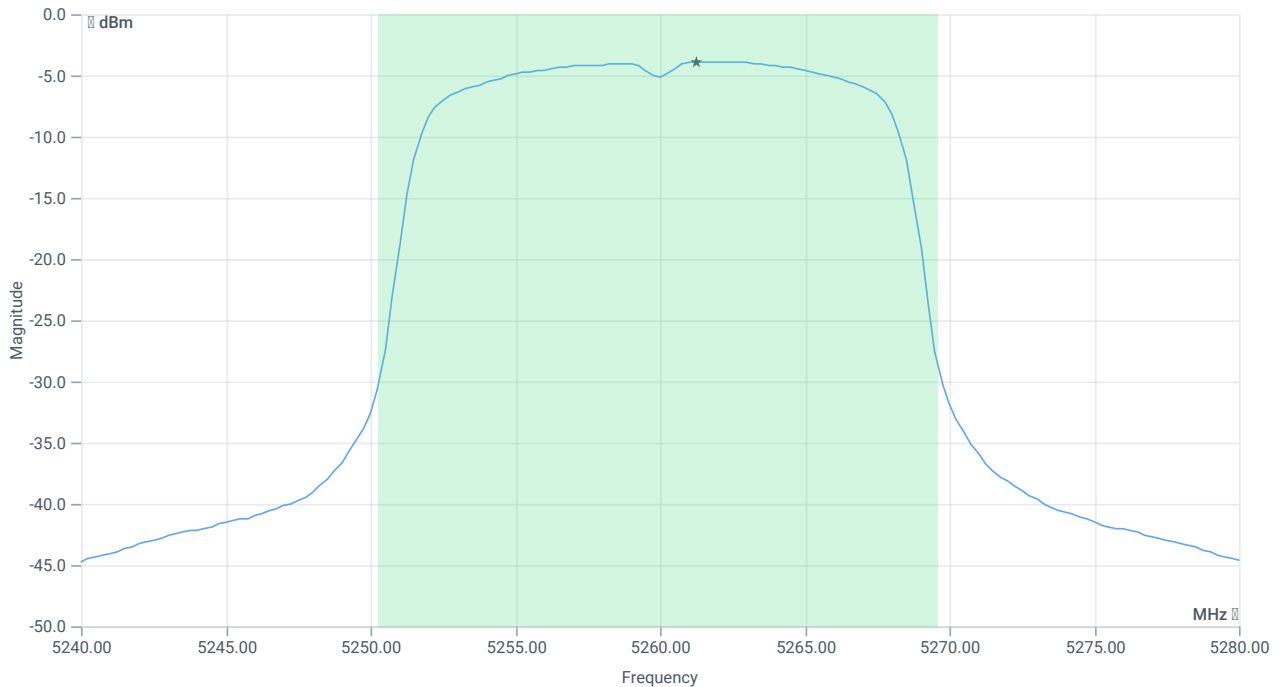
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5260 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.29 13.04 20
Start [MHz] Stop [MHz]	5240.000 5280.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	7.08	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	7.08	dBm	PASS
LIMIT: 11 dBm + 10 log 19.32					
Max output power DC corrected cond	---	23.86	7.08	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	10.78	dBm	PASS
------------------------------------	----	----	-------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-3.92	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-3.92	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

References

TC start	14.05.2024 14:39:43
Ambit temp [°C] humidity [rel%]	28.0 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	True Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5280 MHz

RESULT: Reference power cond.

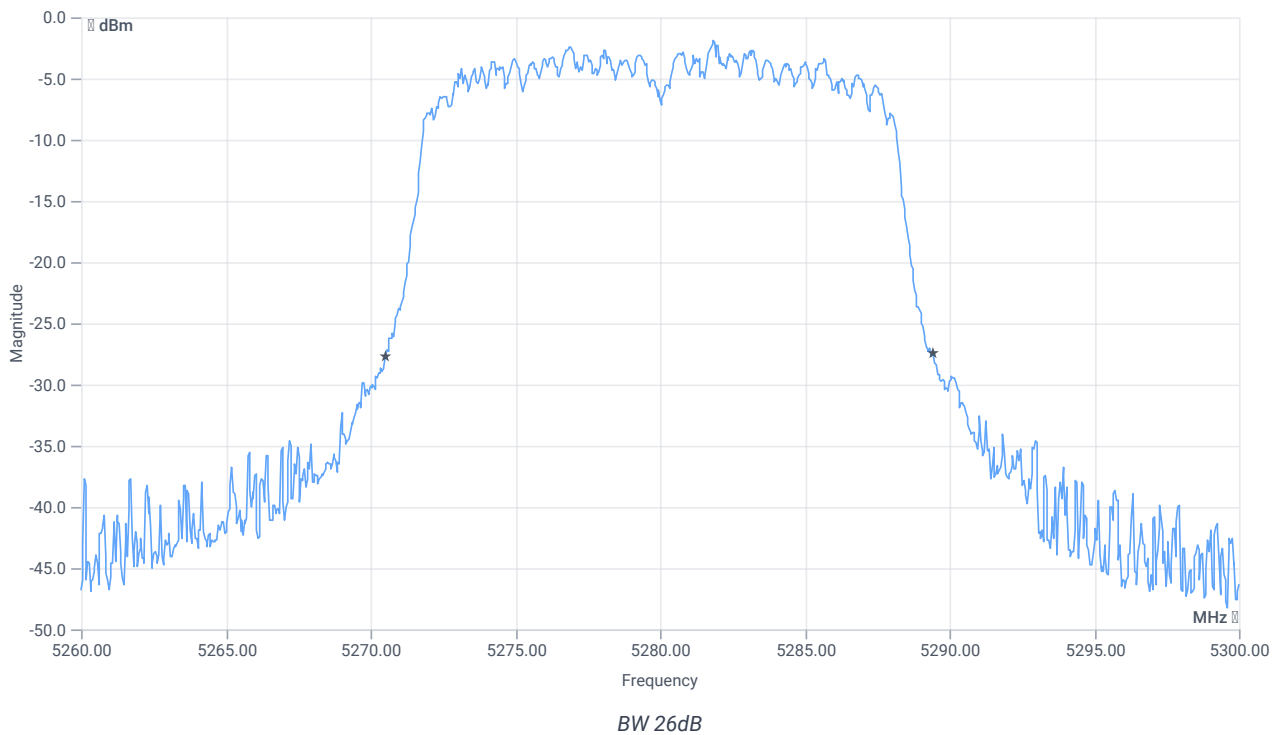
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.82	dBm	INFO
Ref. frequency	---	---	5282.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	18.92	MHz	INFO
T1 26dB	---	---	5270.5200	MHz	INFO
T2 26dB	---	---	5289.4400	MHz	INFO

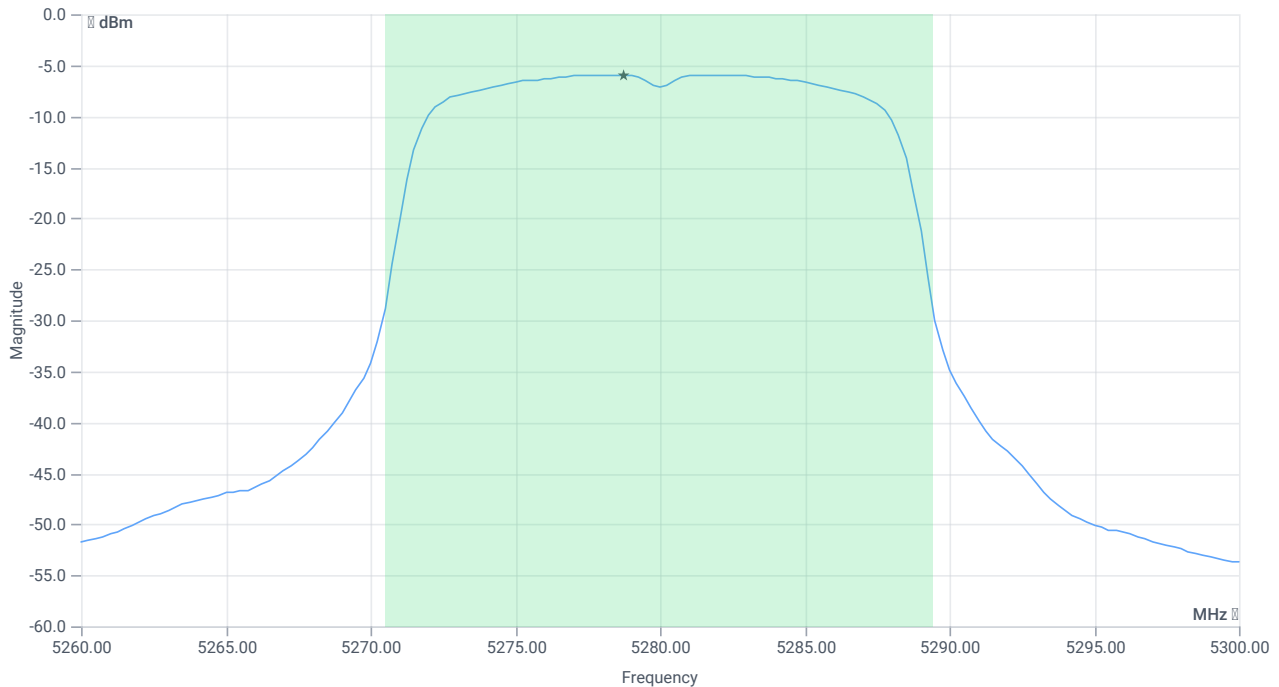
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5280 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.82 13.29 15
Start [MHz] Stop [MHz]	5260.000 5300.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	5.14	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	5.14	dBm	PASS
LIMIT: 11 dBm + 10 log 18.92					
Max output power DC corrected cond	---	23.77	5.14	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	8.84	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-5.95	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-5.95	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

References

TC start	14.05.2024 14:43:17
Ambit temp [°C] humidity [rel%]	28.1 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	True Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5280 MHz

RESULT: Reference power cond.

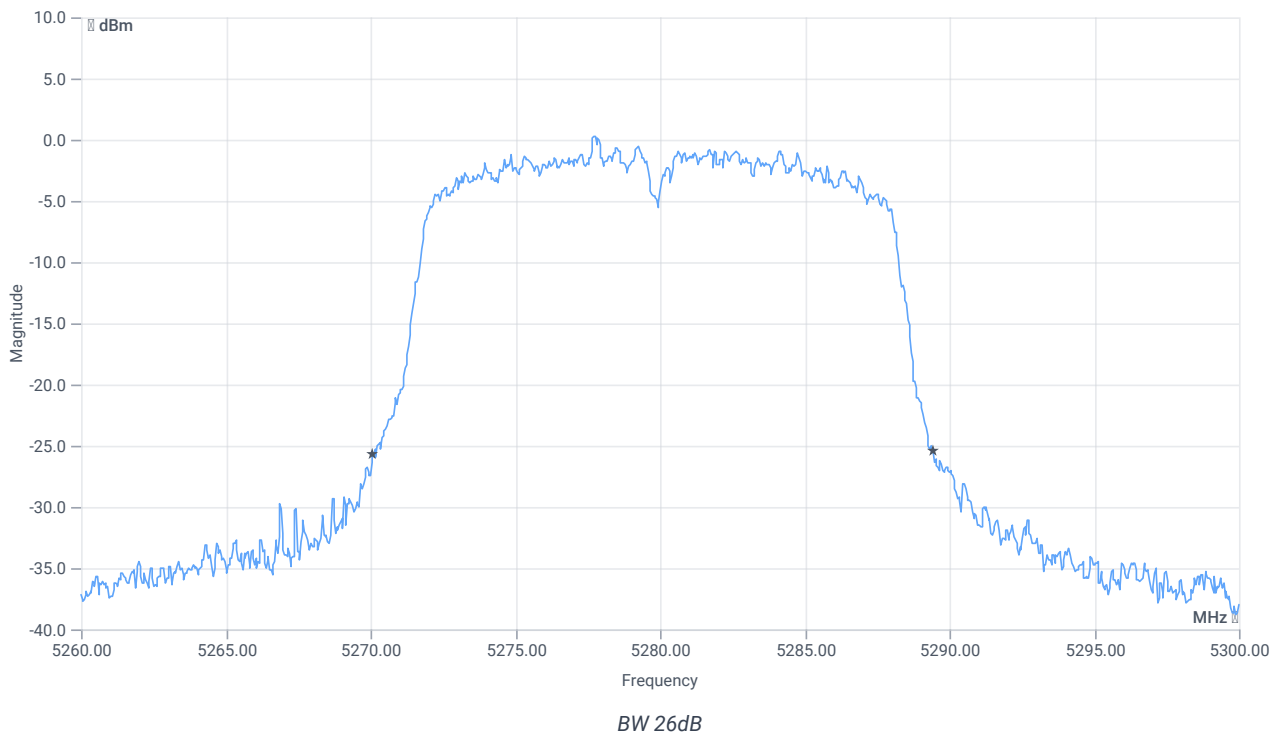
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.13	dBm	INFO
Ref. frequency	---	---	5283.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.36	MHz	INFO
T1 26dB	---	---	5270.0800	MHz	INFO
T2 26dB	---	---	5289.4400	MHz	INFO

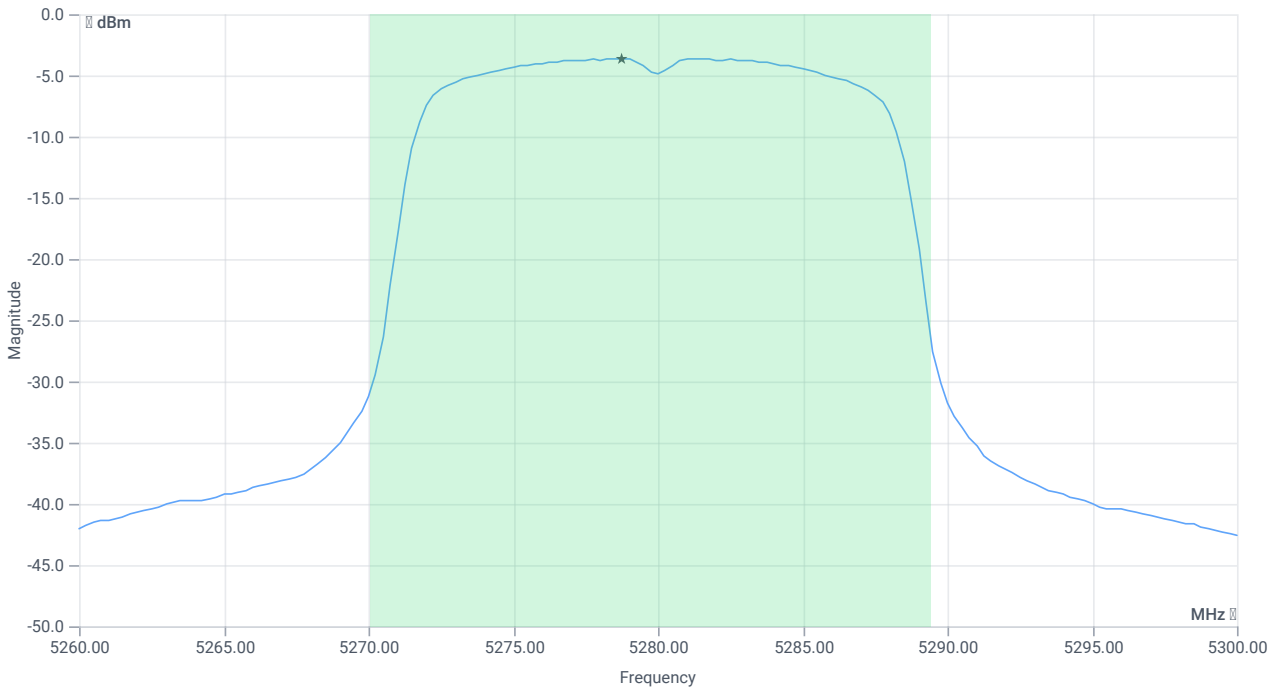
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5280 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	17.13 13.27 20
Start [MHz] Stop [MHz]	5260.000 5300.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	7.43	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	7.43	dBm	PASS
LIMIT: 11 dBm + 10 log 19.36					
Max output power DC corrected cond	---	23.87	7.43	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	11.13	dBm	PASS
------------------------------------	----	----	-------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-3.64	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-3.64	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

References

TC start	14.05.2024 14:47:35
Ambit temp [°C] humidity [rel%]	28.0 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	True Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5320 MHz

RESULT: Reference power cond.

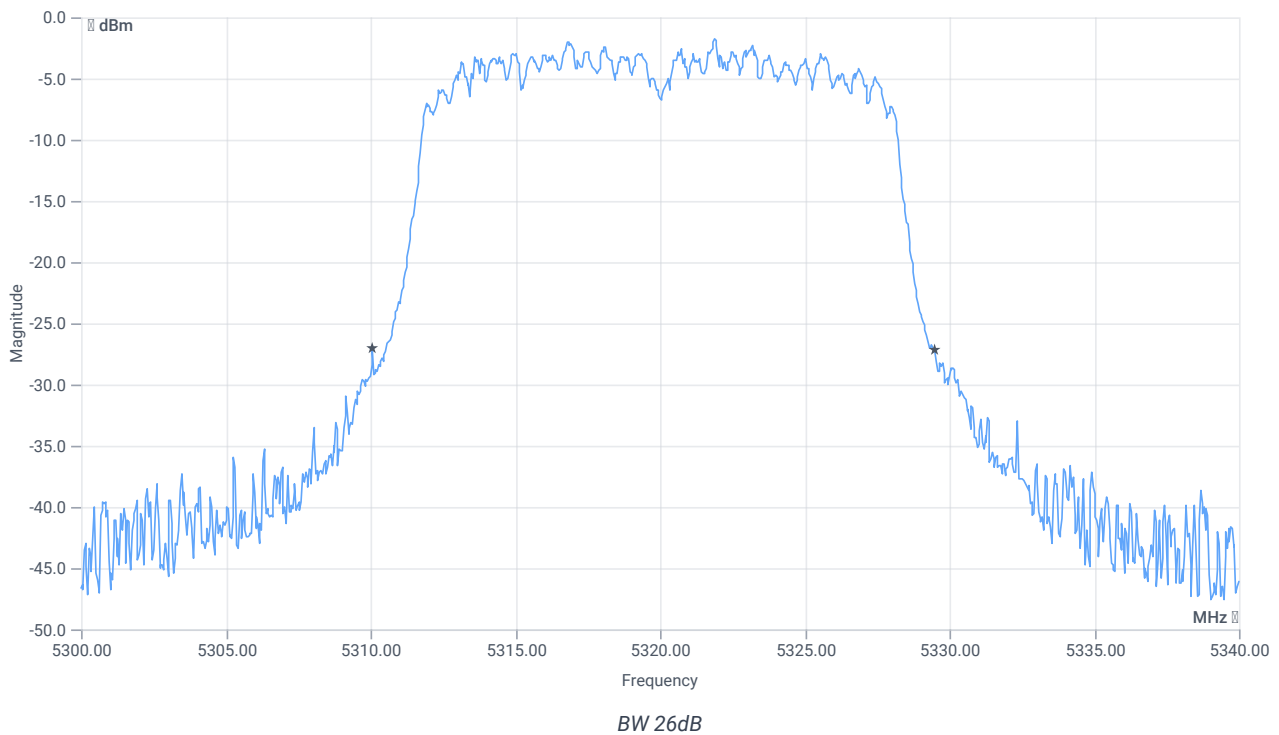
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.85	dBm	INFO
Ref. frequency	---	---	5322.800	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.4	MHz	INFO
T1 26dB	---	---	5310.0800	MHz	INFO
T2 26dB	---	---	5329.4800	MHz	INFO

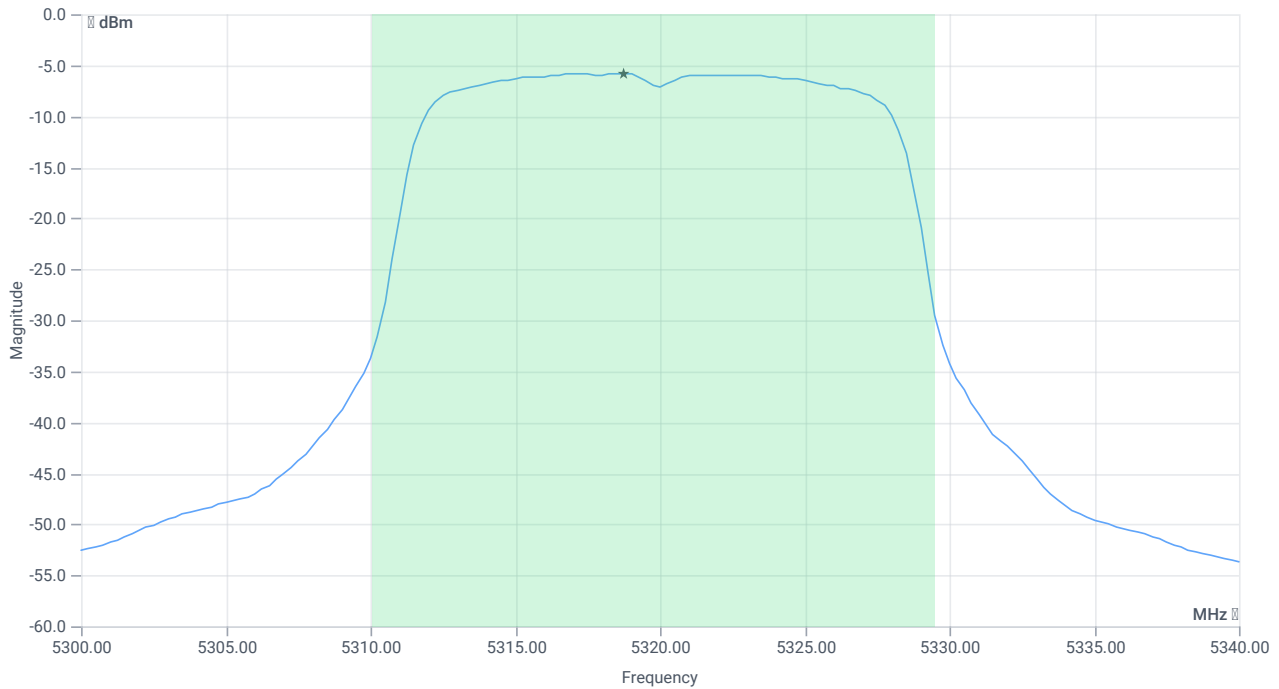
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5320 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.85 13.96 15
Start [MHz] Stop [MHz]	5300.000 5340.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	5.34	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	5.34	dBm	PASS
LIMIT: 11 dBm + 10 log 19.4					
Max output power DC corrected cond	---	23.88	5.34	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	9.04	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-5.83	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-5.83	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2A

References

TC start	14.05.2024 14:51:08
Ambit temp [°C] humidity [rel%]	28.0 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	True Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5320 MHz

RESULT: Reference power cond.

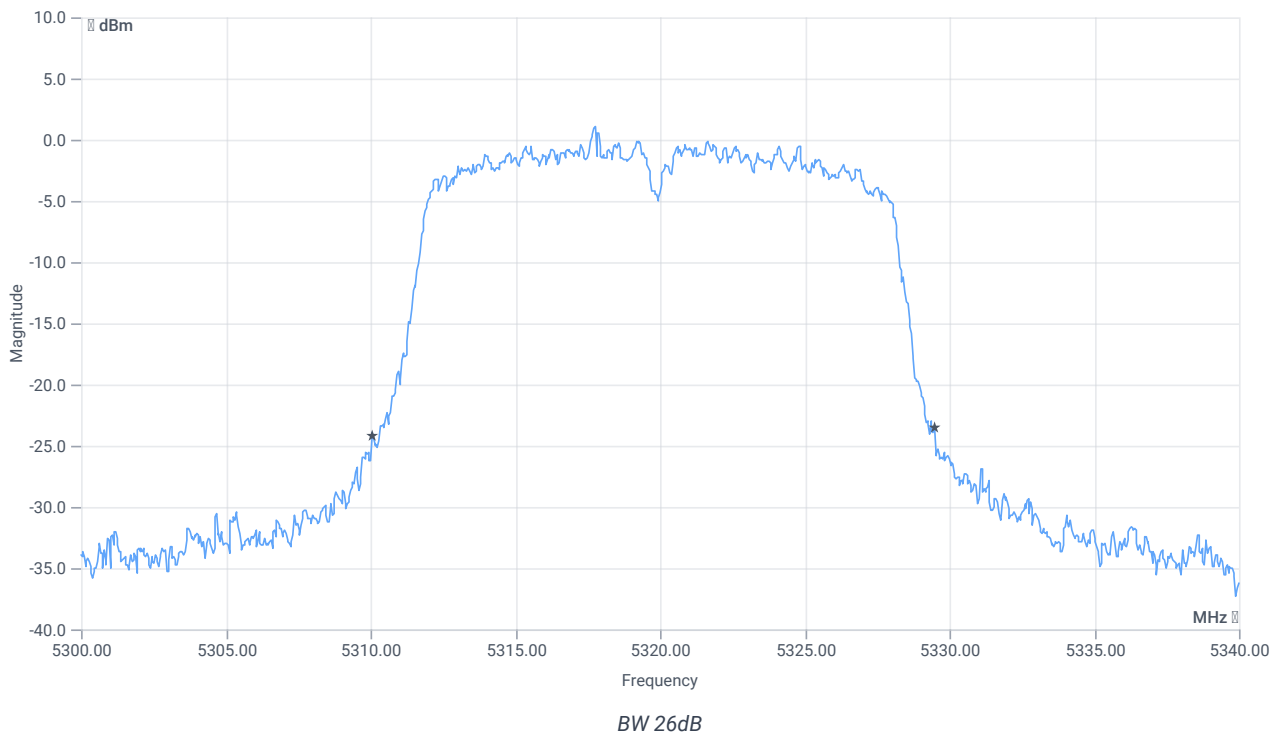
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.10	dBm	INFO
Ref. frequency	---	---	5316.600	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.44	MHz	INFO
T1 26dB	---	---	5310.0400	MHz	INFO
T2 26dB	---	---	5329.4800	MHz	INFO

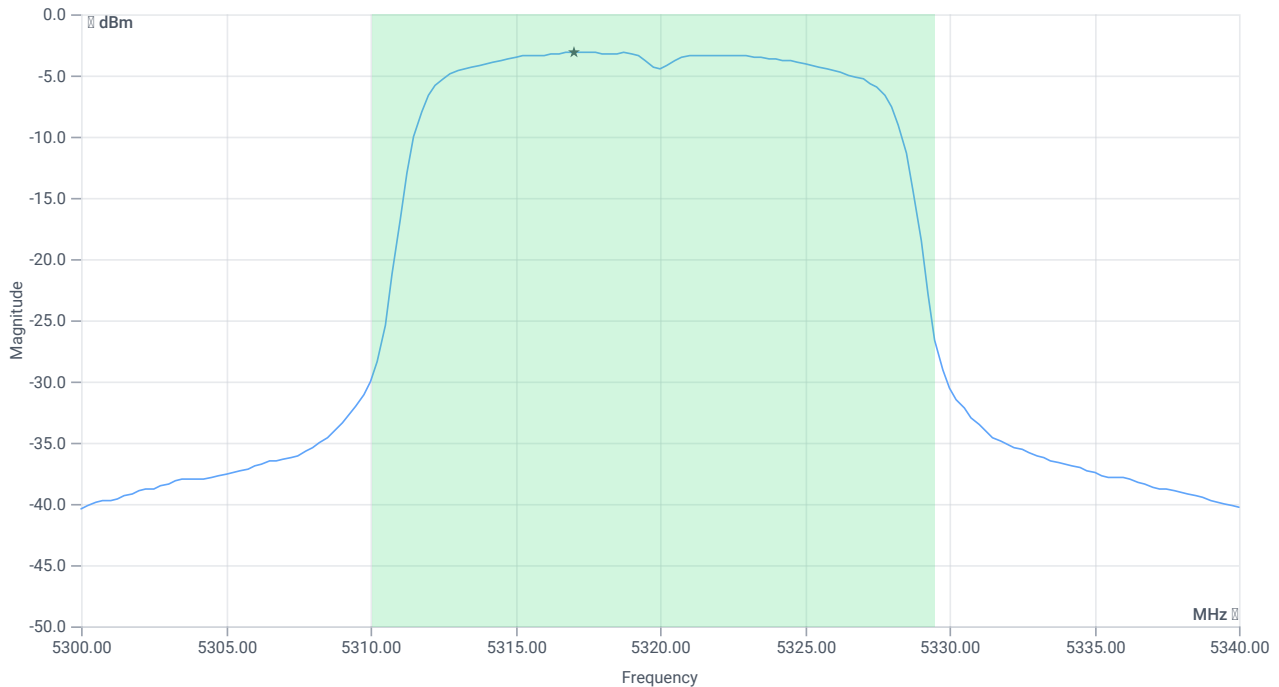
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5320 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	16.10 13.72 20
Start [MHz] Stop [MHz]	5300.000 5340.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	7.97	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	7.97	dBm	PASS
LIMIT: 11 dBm + 10 log 19.44					
Max output power DC corrected cond	--	23.89	7.97	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	11.67	dBm	PASS
------------------------------------	----	----	-------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-3.14	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-3.14	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

References

TC start	14.05.2024 14:56:23
Ambit temp [°C] humidity [rel%]	28.0 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5500 MHz

RESULT: Reference power cond.

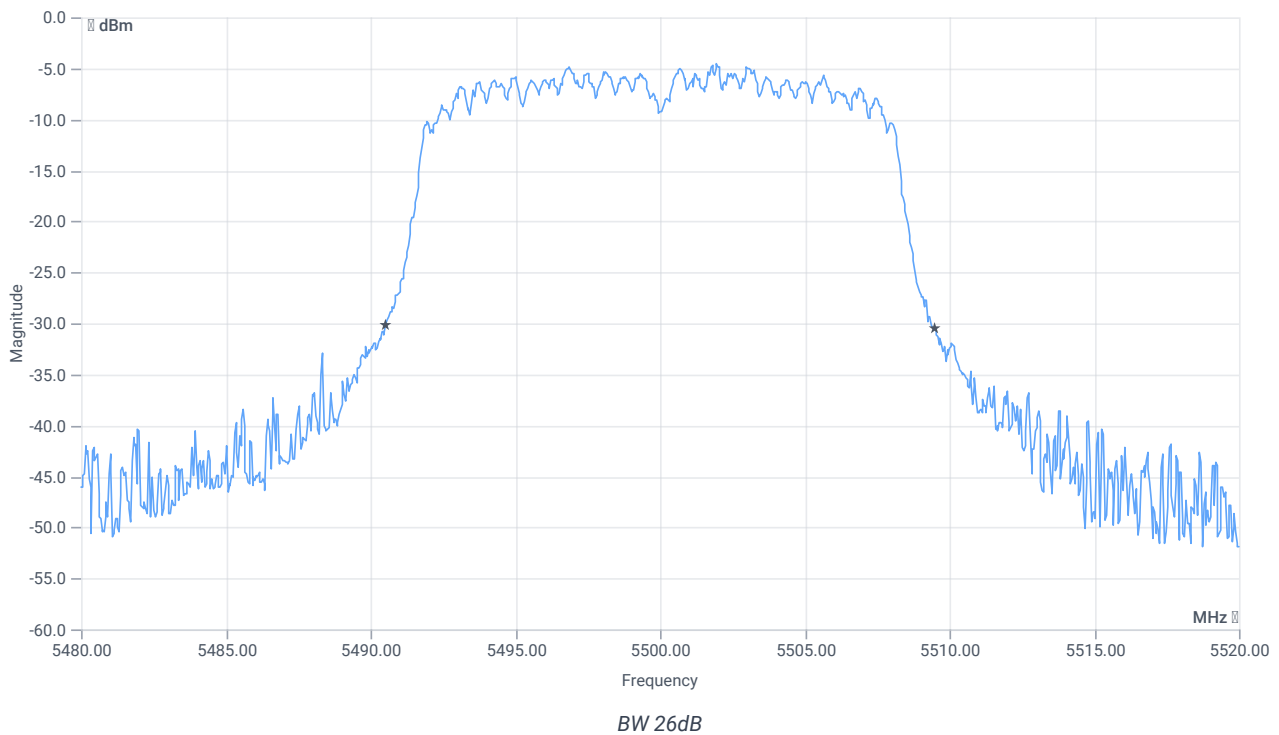
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.31	dBm	INFO
Ref. frequency	---	---	5502.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



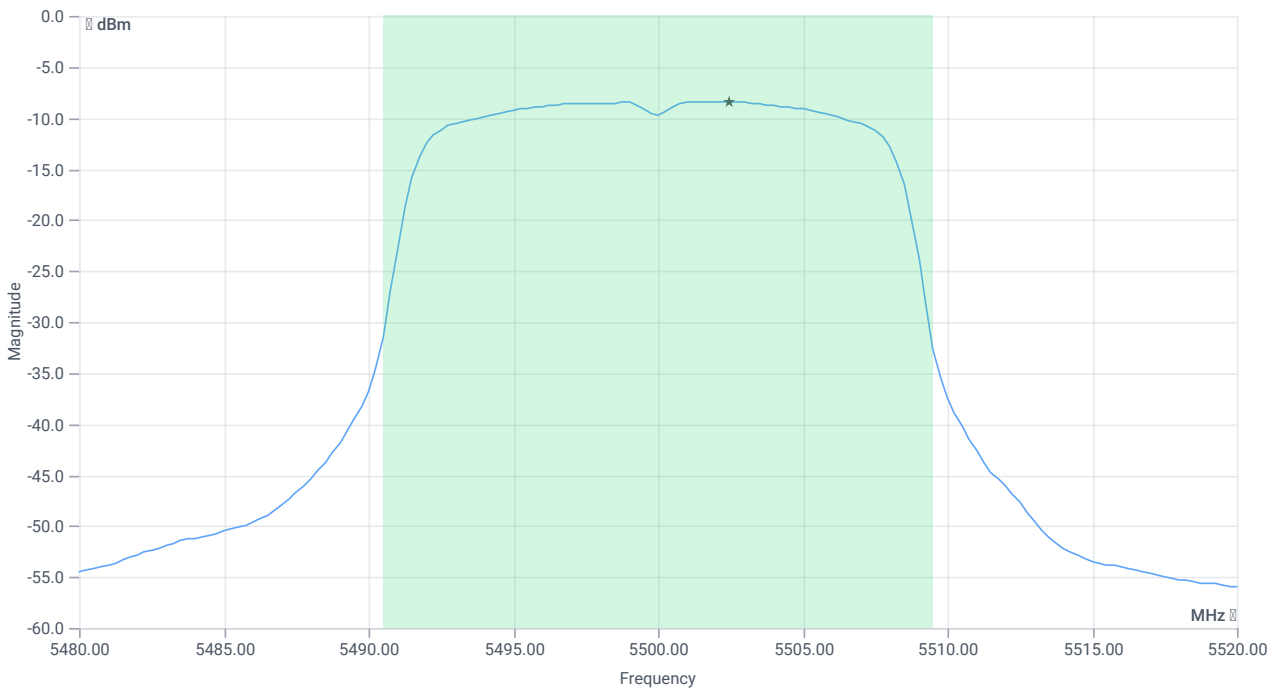
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	18.96	MHz	INFO
T1 26dB	---	---	5490.5200	MHz	INFO
T2 26dB	---	---	5509.4800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.69 13.54 15
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	2.62	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	2.62	dBm	PASS
LIMIT: 11 dBm + 10 log 18.96					
Max output power DC corrected cond	--	23.78	2.62	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	2.62	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-8.45	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-8.45	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

References

TC start	14.05.2024 14:59:53
Ambit temp [°C] humidity [rel%]	28.0 41
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5500 MHz

RESULT: Reference power cond.

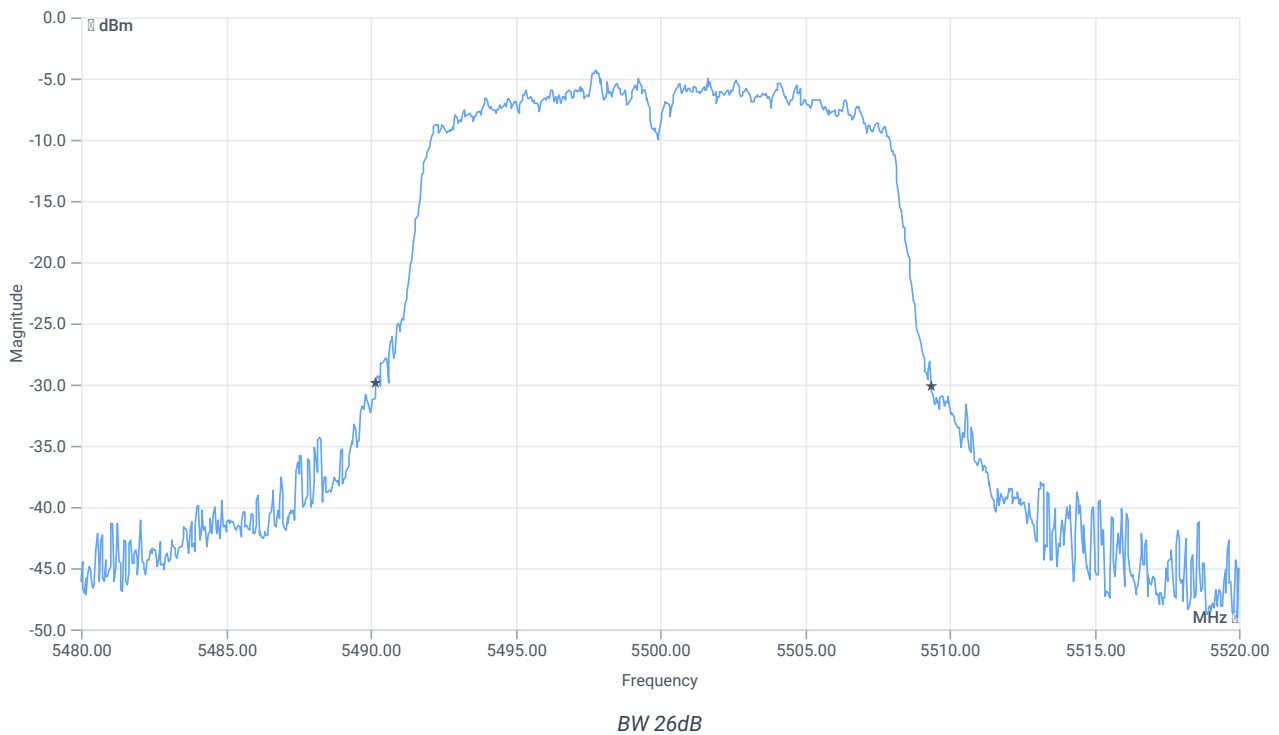
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.03	dBm	INFO
Ref. frequency	---	---	5496.600	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



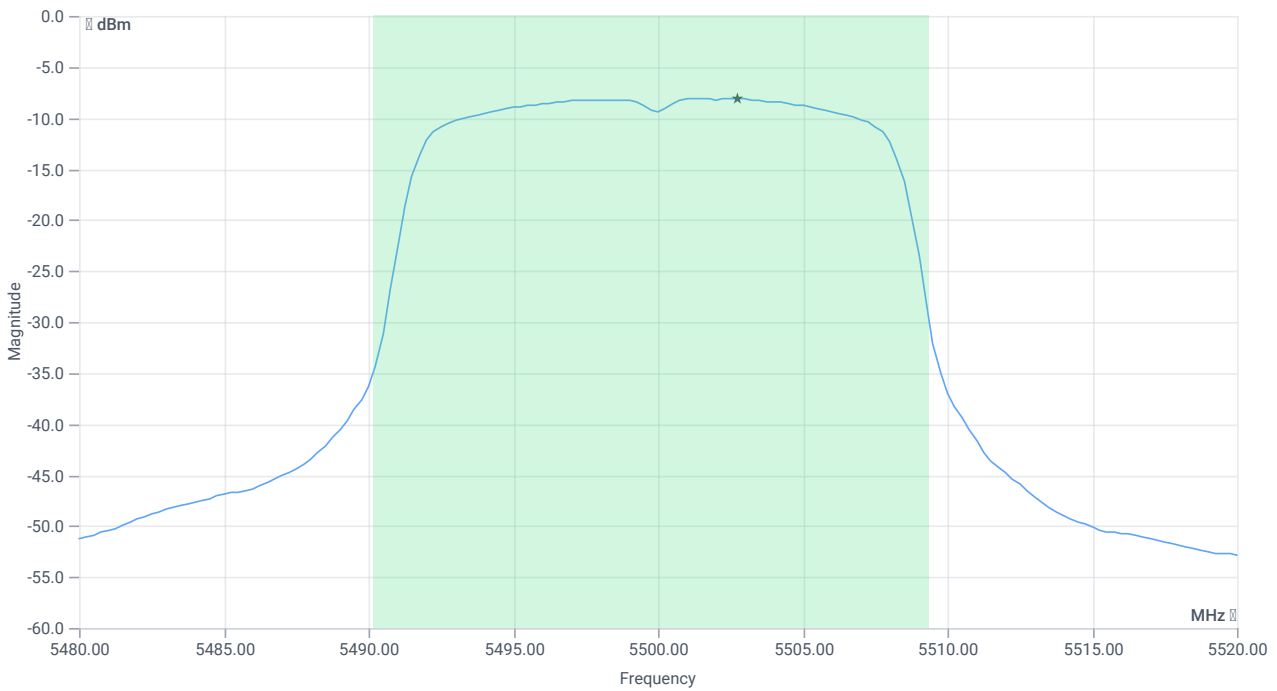
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.16	MHz	INFO
T1 26dB	---	---	5490.2000	MHz	INFO
T2 26dB	---	---	5509.3600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.97 13.42 15
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	2.92	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	2.92	dBm	PASS
LIMIT: 11 dBm + 10 log 19.16					
Max output power DC corrected cond	--	23.82	2.92	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	2.92	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-8.15	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-8.15	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

References

TC start	14.05.2024 15:03:59
Ambit temp [°C] humidity [rel%]	28.0 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5600 MHz

RESULT: Reference power cond.

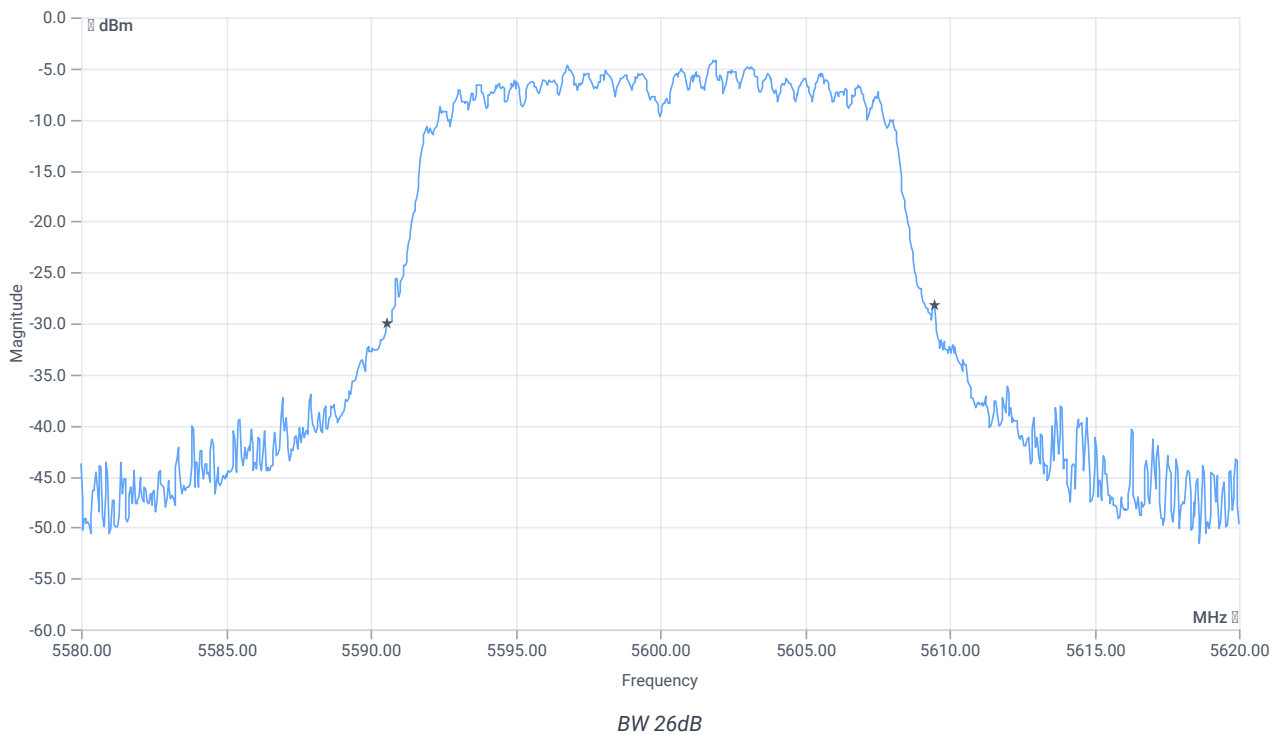
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.13	dBm	INFO
Ref. frequency	---	---	5602.600	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



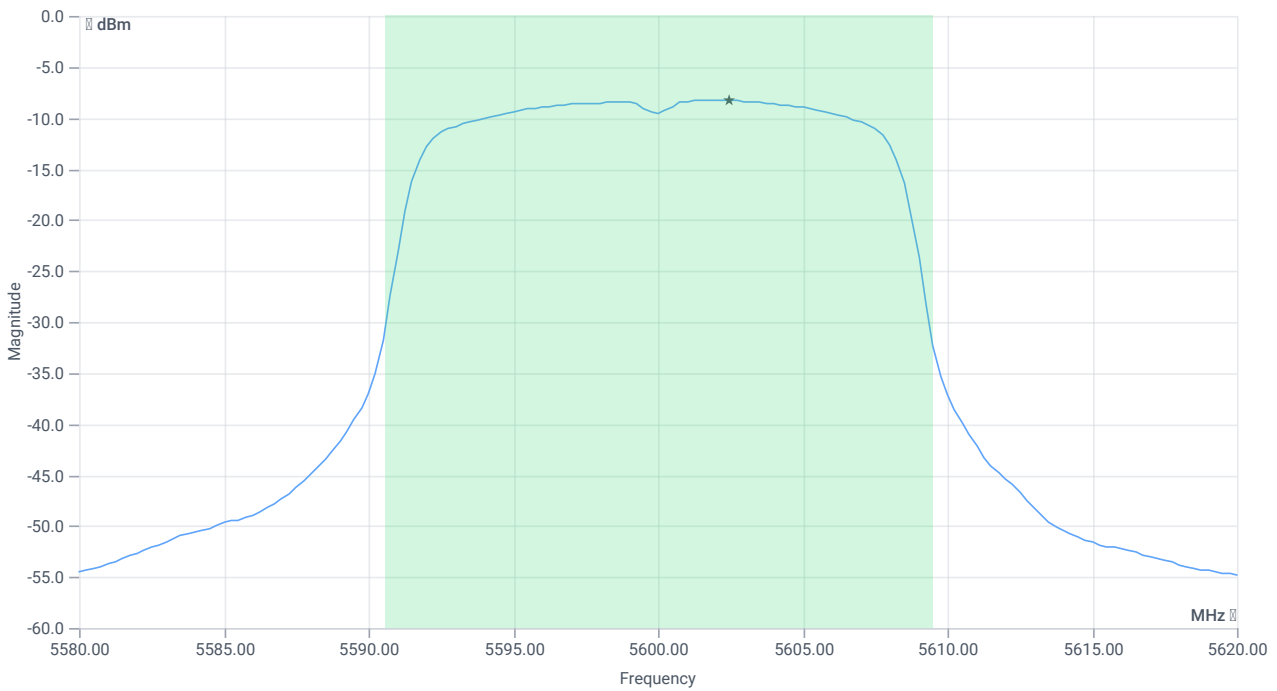
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	18.92	MHz	INFO
T1 26dB	---	---	5590.5600	MHz	INFO
T2 26dB	---	---	5609.4800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.13 13.81 15
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	2.66	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	2.66	dBm	PASS
LIMIT: 11 dBm + 10 log 18.92					
Max output power DC corrected cond	--	23.77	2.66	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	2.66	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-8.29	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-8.29	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

References

TC start	14.05.2024 15:07:29
Ambit temp [°C] humidity [rel%]	28.1 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5600 MHz

RESULT: Reference power cond.

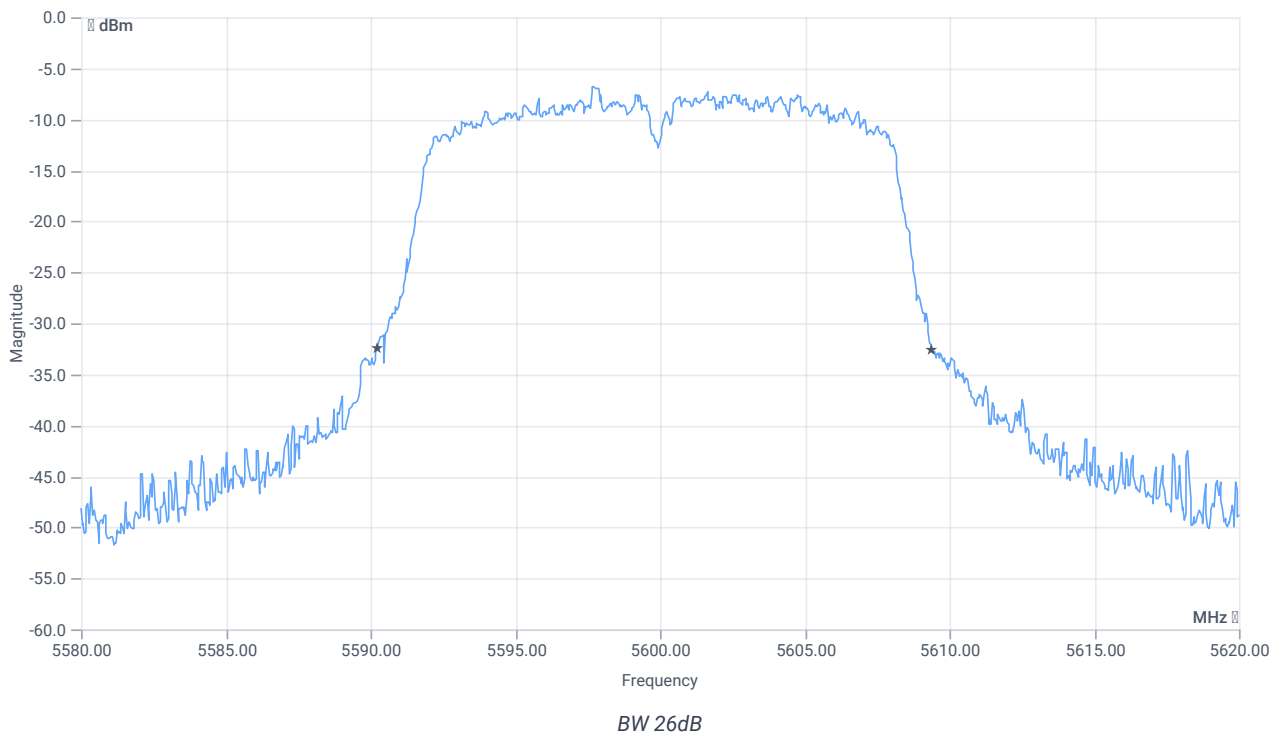
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-2.19	dBm	INFO
Ref. frequency	---	---	5603.200	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



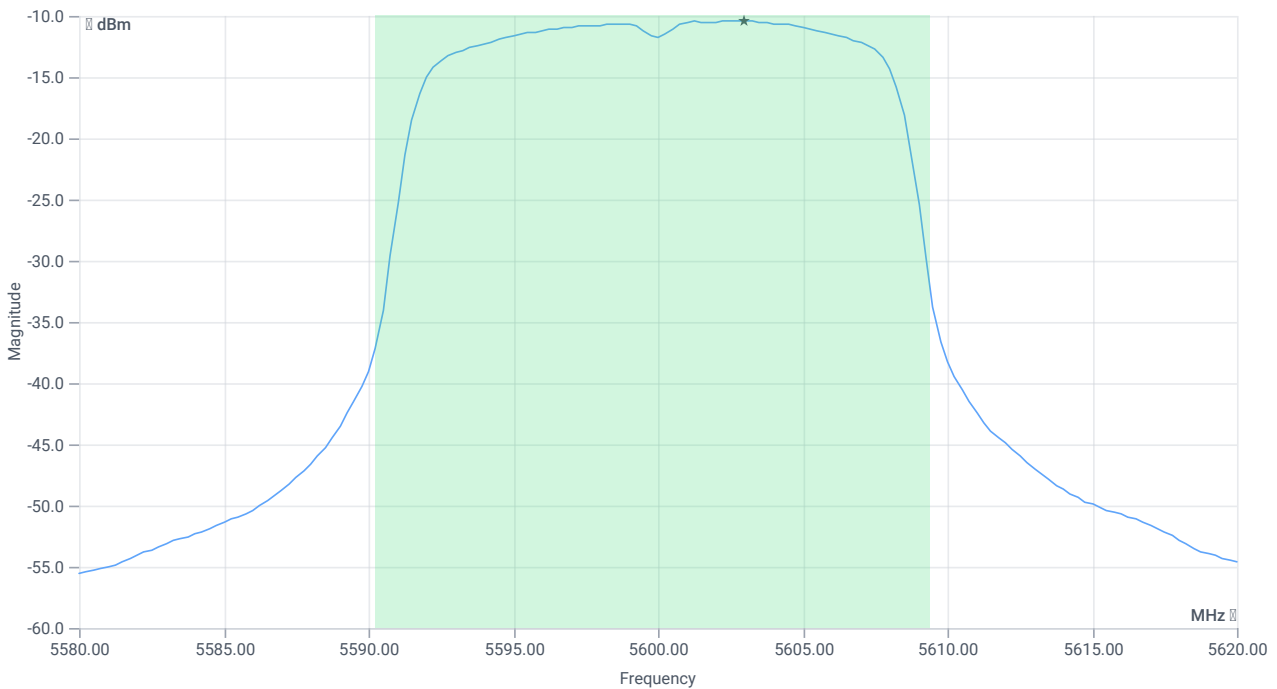
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	19.16	MHz	INFO
T1 26dB	---	---	5590.2400	MHz	INFO
T2 26dB	---	---	5609.4000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.81 13.5 15
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	0.55	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	0.55	dBm	PASS
LIMIT: 11 dBm + 10 log 19.16					
Max output power DC corrected cond	--	23.82	0.55	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	0.55	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-10.4	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-10.4	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

References

TC start	14.05.2024 15:12:10
Ambit temp [°C] humidity [rel%]	28.1 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5700 MHz

RESULT: Reference power cond.

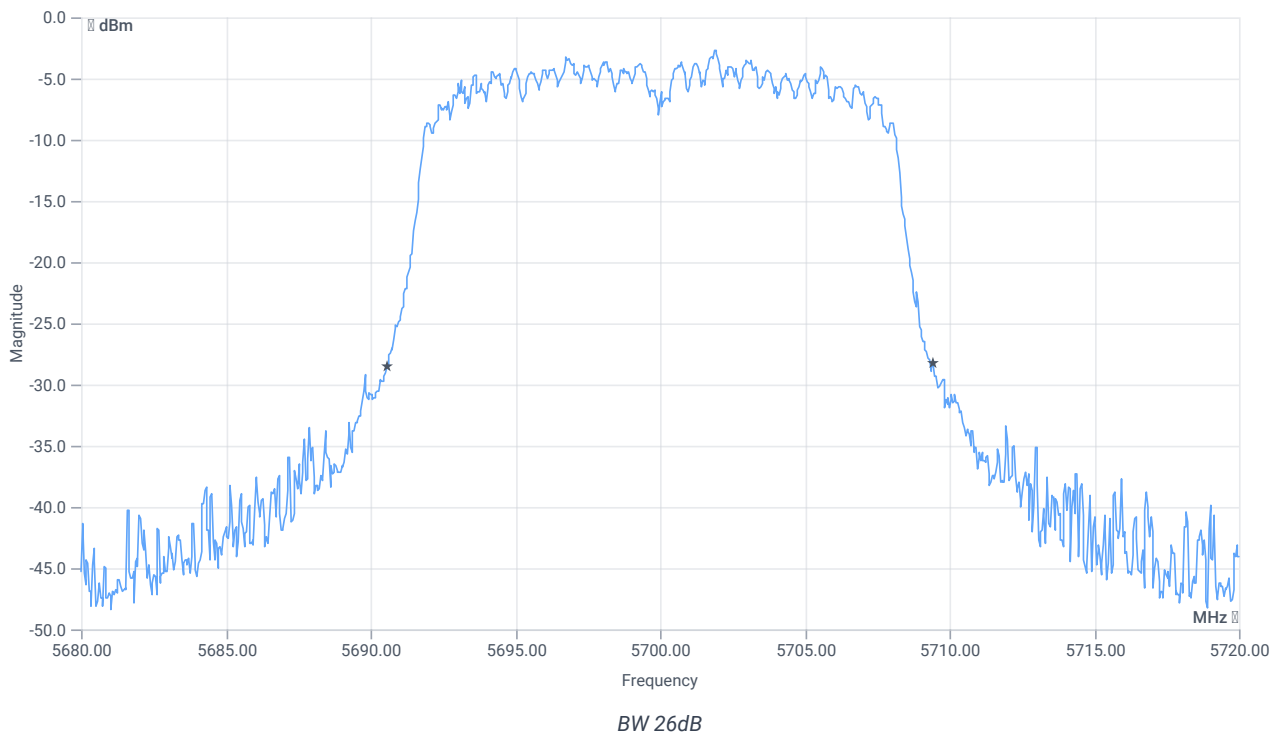
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.16	dBm	INFO
Ref. frequency	---	---	5702.600	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



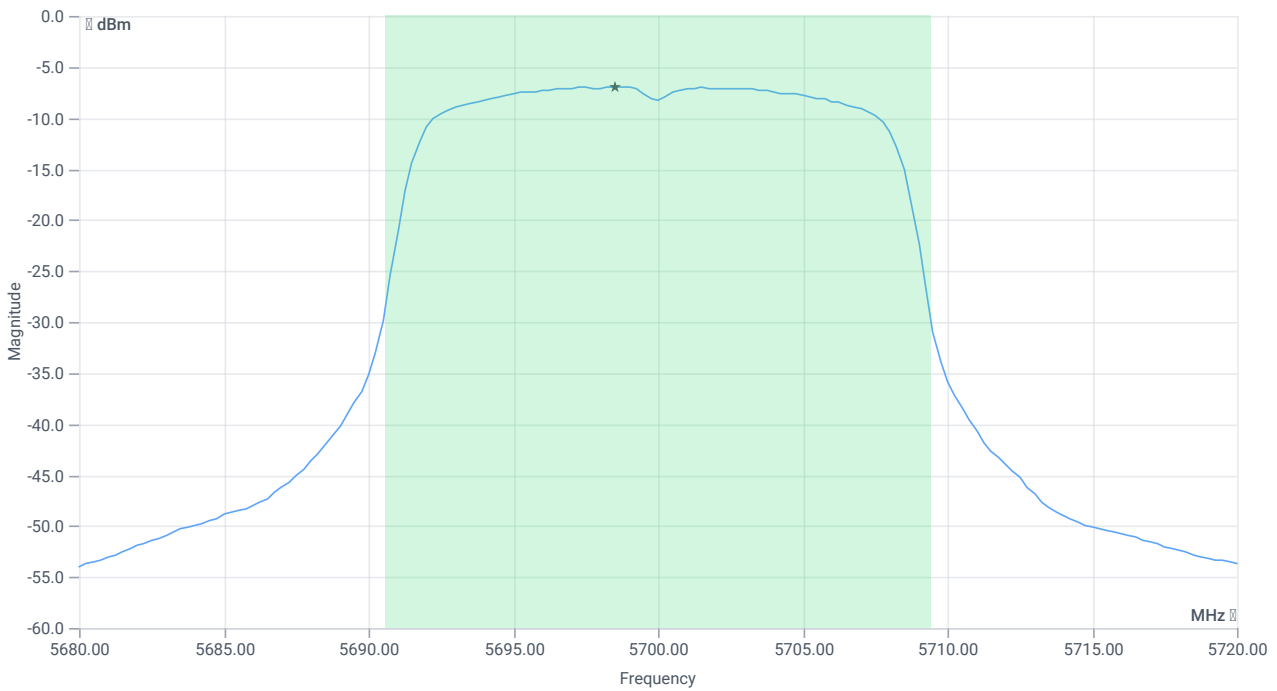
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	18.88	MHz	INFO
T1 26dB	---	---	5690.5600	MHz	INFO
T2 26dB	---	---	5709.4400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.16 13.47 15
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	4.09	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	4.09	dBm	PASS
LIMIT: 11 dBm + 10 log 18.88					
Max output power DC corrected cond	--	23.76	4.09	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	4.09	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-6.99	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-6.99	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx a mode U-NII-2C

References

TC start	14.05.2024 15:15:39
Ambit temp [°C] humidity [rel%]	28.1 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx a mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5700 MHz

RESULT: Reference power cond.

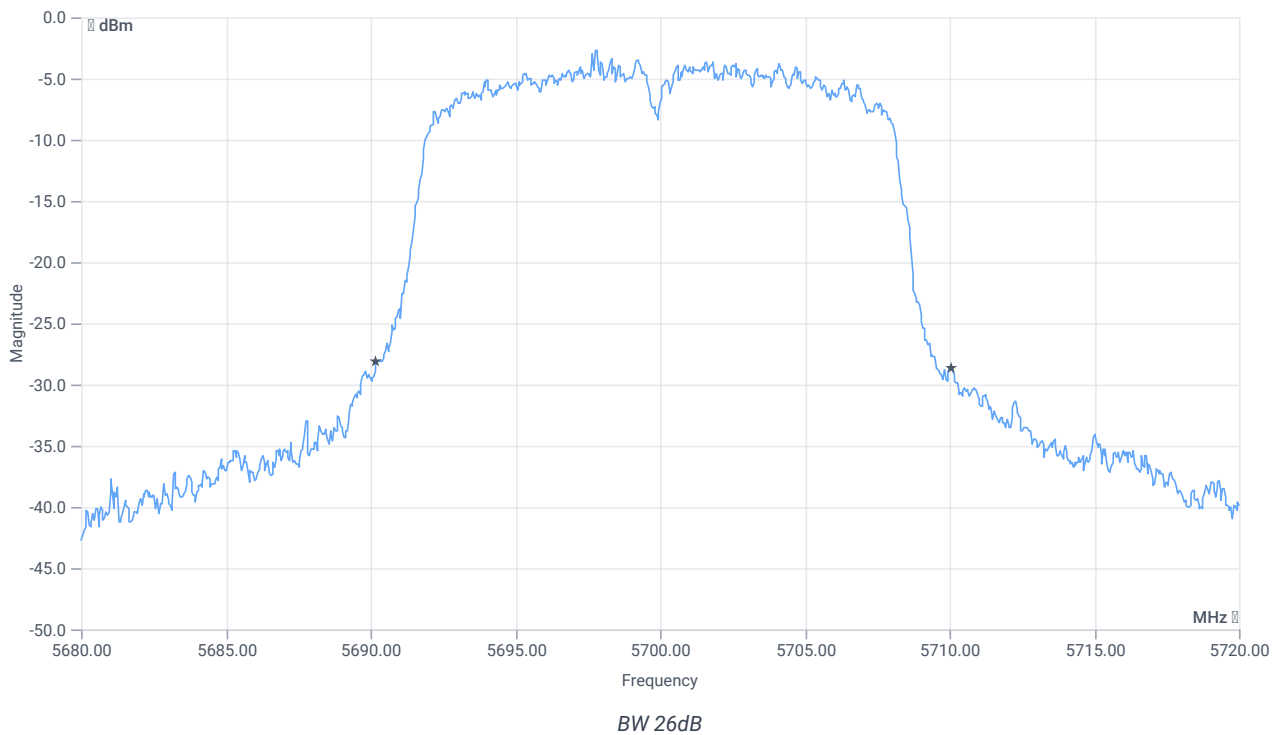
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.34	dBm	INFO
Ref. frequency	--	--	5702.800	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation bandwidth



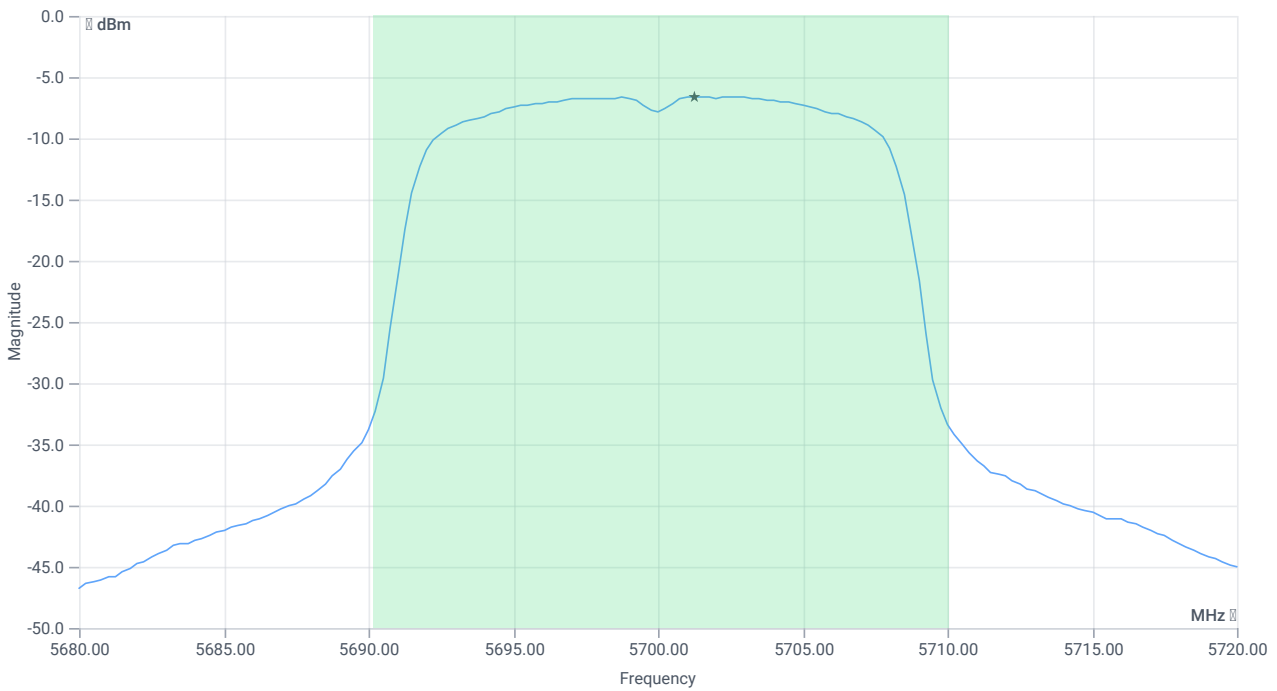
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	19.88	MHz	INFO
T1 26dB	--	--	5690.2000	MHz	INFO
T2 26dB	--	--	5710.0800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.34 13.43 15
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	4.42	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	4.42	dBm	PASS
LIMIT: 11 dBm + 10 log 19.88					
Max output power DC corrected cond	--	23.98	4.42	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	4.42	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-6.59	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-6.59	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

References

TC start	14.05.2024 15:19:57
Ambit temp [°C] humidity [rel%]	28.2 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5260 MHz

RESULT: Reference power cond.

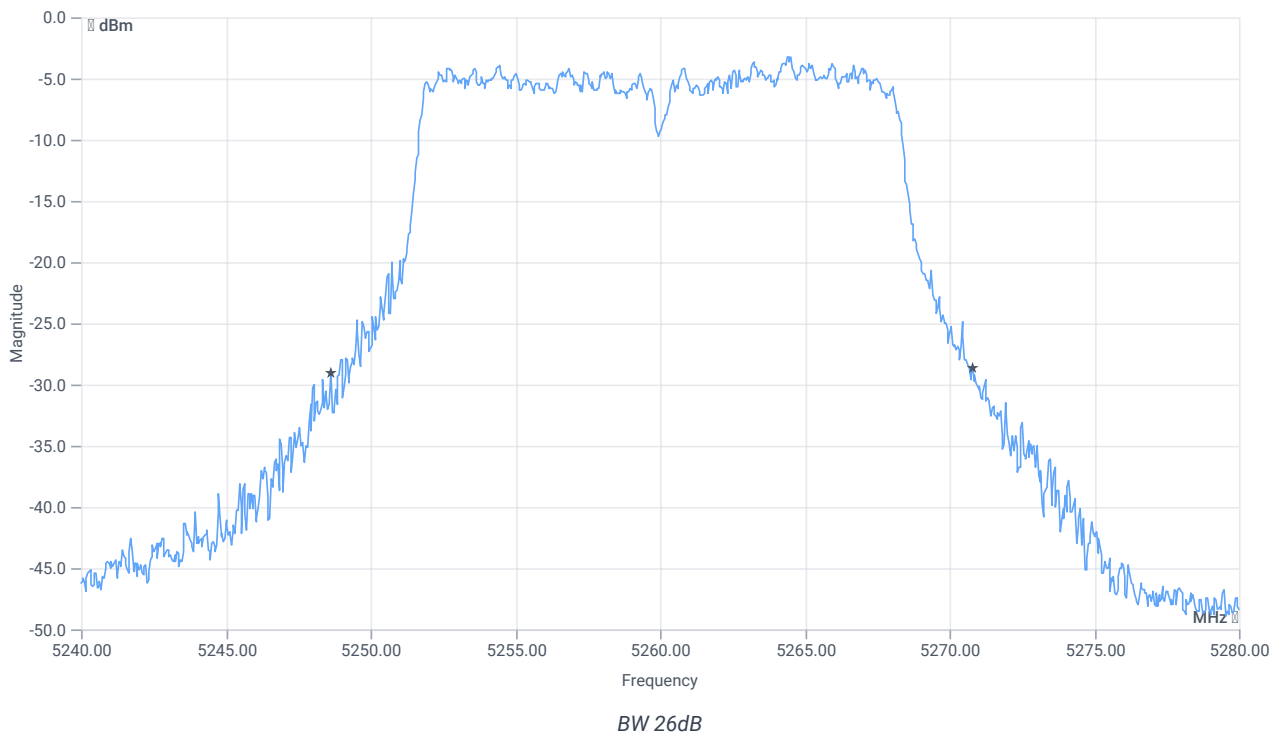
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.21	dBm	INFO
Ref. frequency	---	---	5256.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.2	MHz	INFO
T1 26dB	---	---	5248.6000	MHz	INFO
T2 26dB	---	---	5270.8000	MHz	INFO

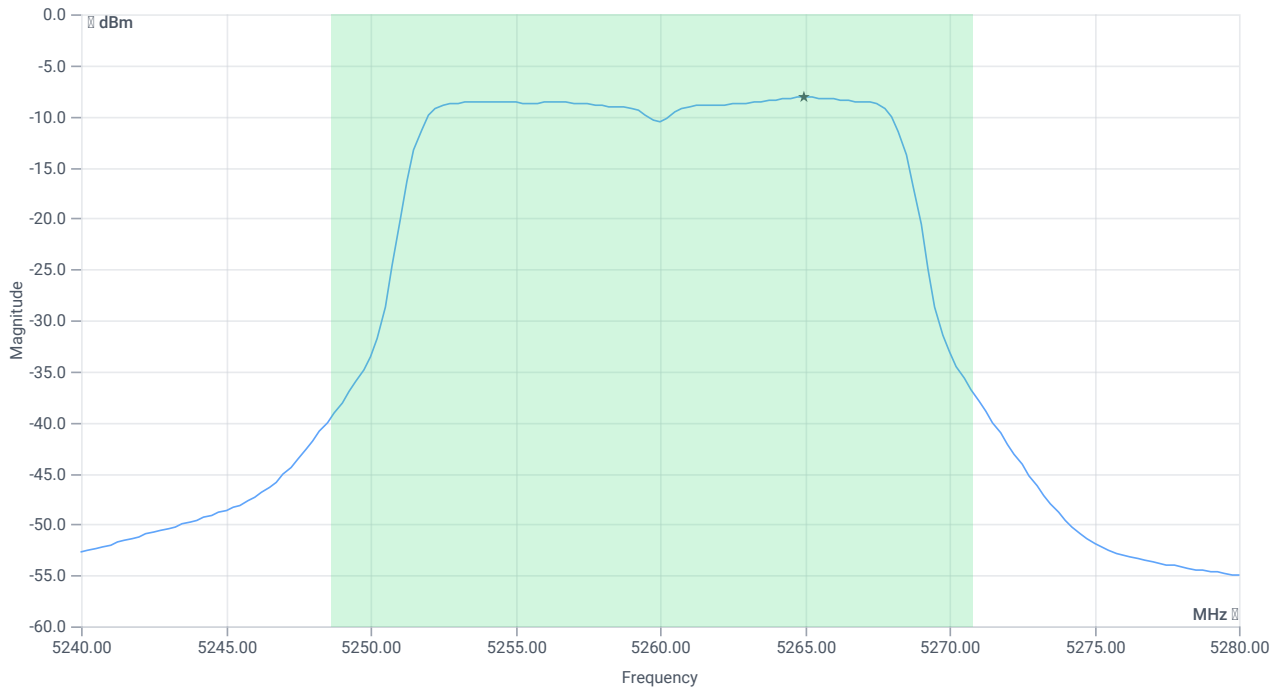
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5260 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.21 13.25 15
Start [MHz] Stop [MHz]	5240.000 5280.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	3.14	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	3.14	dBm	PASS
LIMIT: 11 dBm + 10 log 22.2					
Max output power DC corrected cond	---	24.46	3.14	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	6.84	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-8.08	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-8.08	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

References

TC start	14.05.2024 15:23:28
Ambit temp [°C] humidity [rel%]	28.2 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5260 MHz

RESULT: Reference power cond.

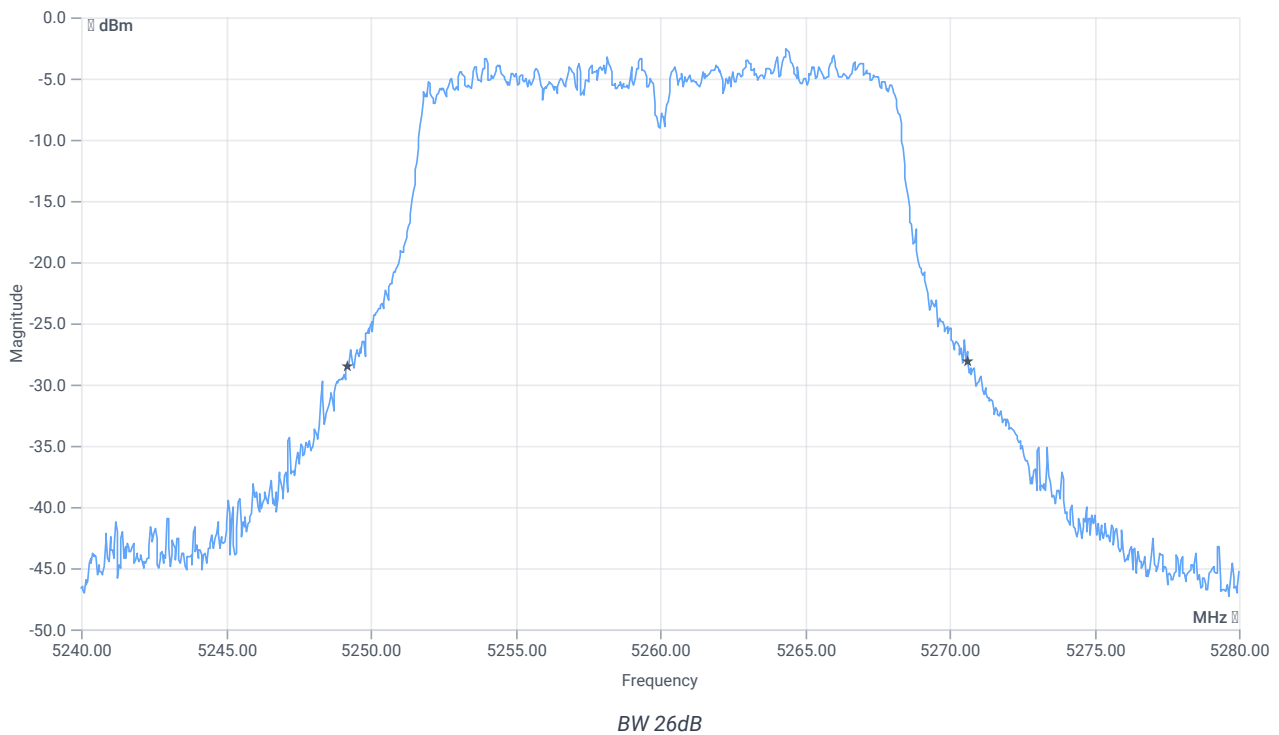
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.82	dBm	INFO
Ref. frequency	---	---	5267.190	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.44	MHz	INFO
T1 26dB	---	---	5249.2000	MHz	INFO
T2 26dB	---	---	5270.6400	MHz	INFO

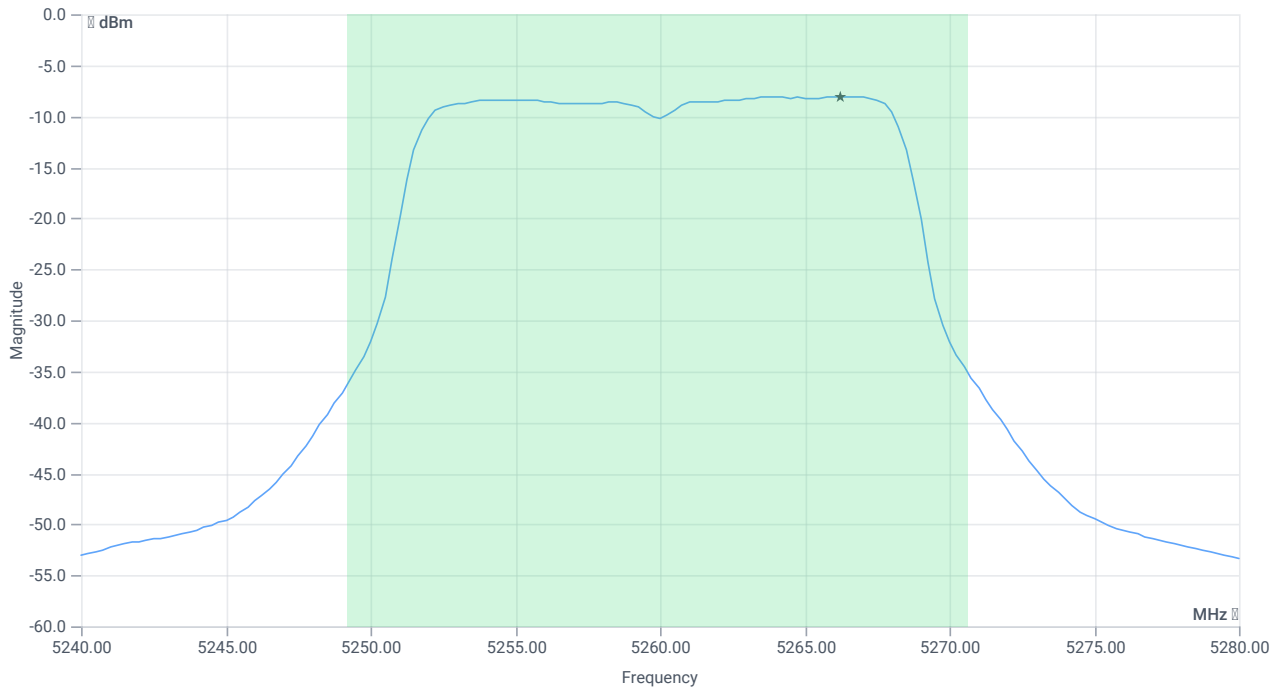
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5260 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.82 13.04 15
Start [MHz] Stop [MHz]	5240.000 5280.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	3.35	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	3.35	dBm	PASS
LIMIT: 11 dBm + 10 log 21.44					
Max output power DC corrected cond	---	24.31	3.35	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	7.05	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-8.04	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-8.04	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

References

TC start	14.05.2024 15:27:26
Ambit temp [°C] humidity [rel%]	28.2 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	True Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5280 MHz

RESULT: Reference power cond.

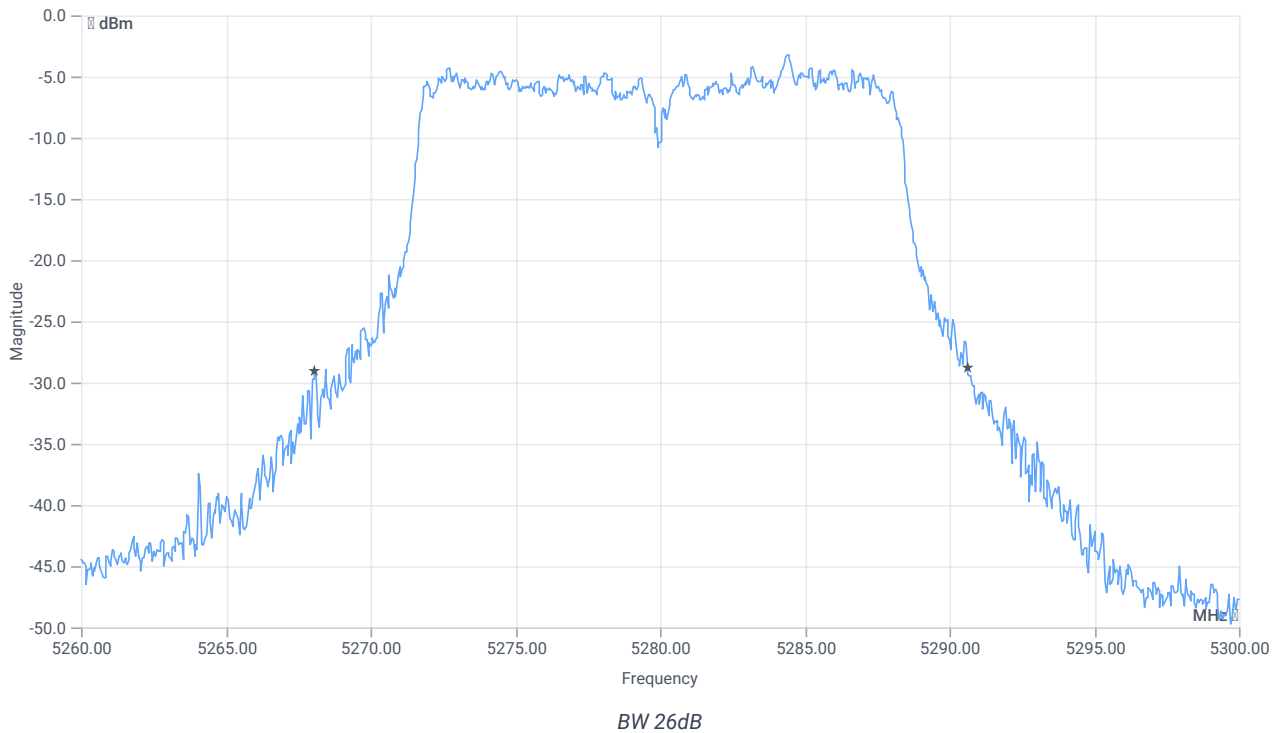
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	0.93	dBm	INFO
Ref. frequency	---	---	5272.610	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.52	MHz	INFO
T1 26dB	---	---	5268.0800	MHz	INFO
T2 26dB	---	---	5290.6000	MHz	INFO

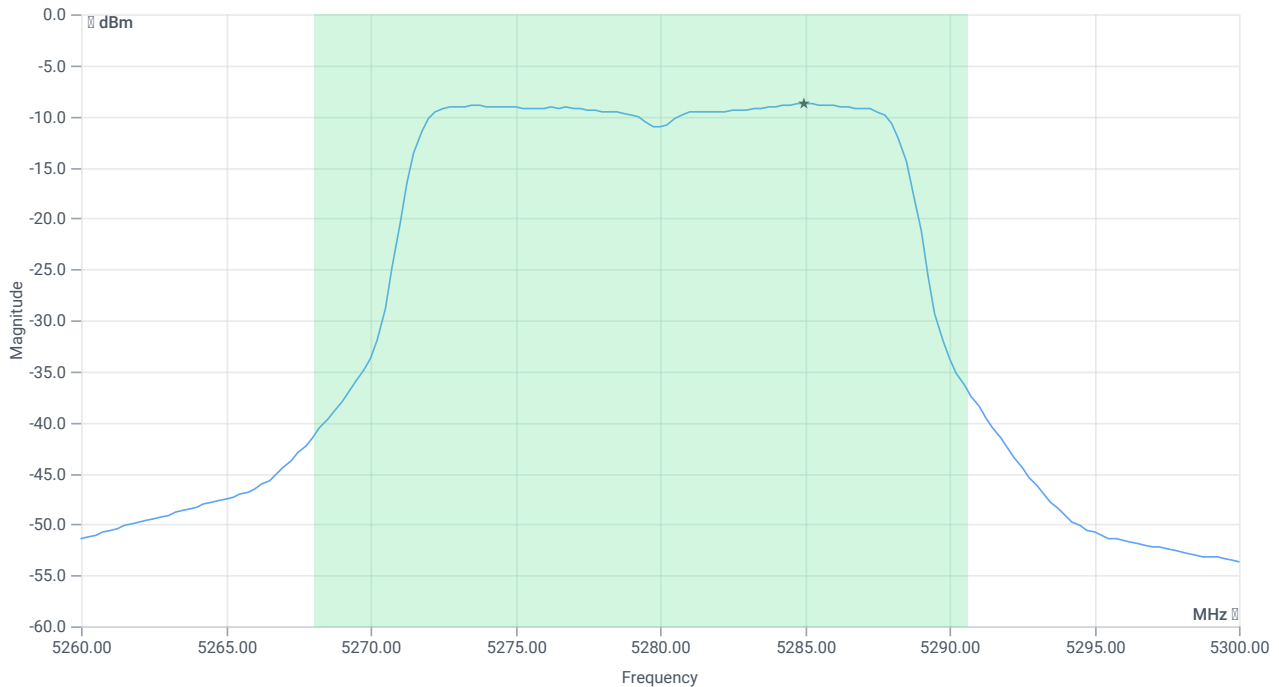
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5280 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.93 13.29 15
Start [MHz] Stop [MHz]	5260.000 5300.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	2.58	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	2.58	dBm	PASS
LIMIT: 11 dBm + 10 log 22.52					
Max output power DC corrected cond	---	24.53	2.58	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	---	27	6.28	dBm	PASS
------------------------------------	-----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-8.73	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-8.73	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

References

TC start	14.05.2024 15:30:56
Ambit temp [°C] humidity [rel%]	28.2 40
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	True Freq [MHz] 5280
Frequency high to test	False Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5280 MHz

RESULT: Reference power cond.

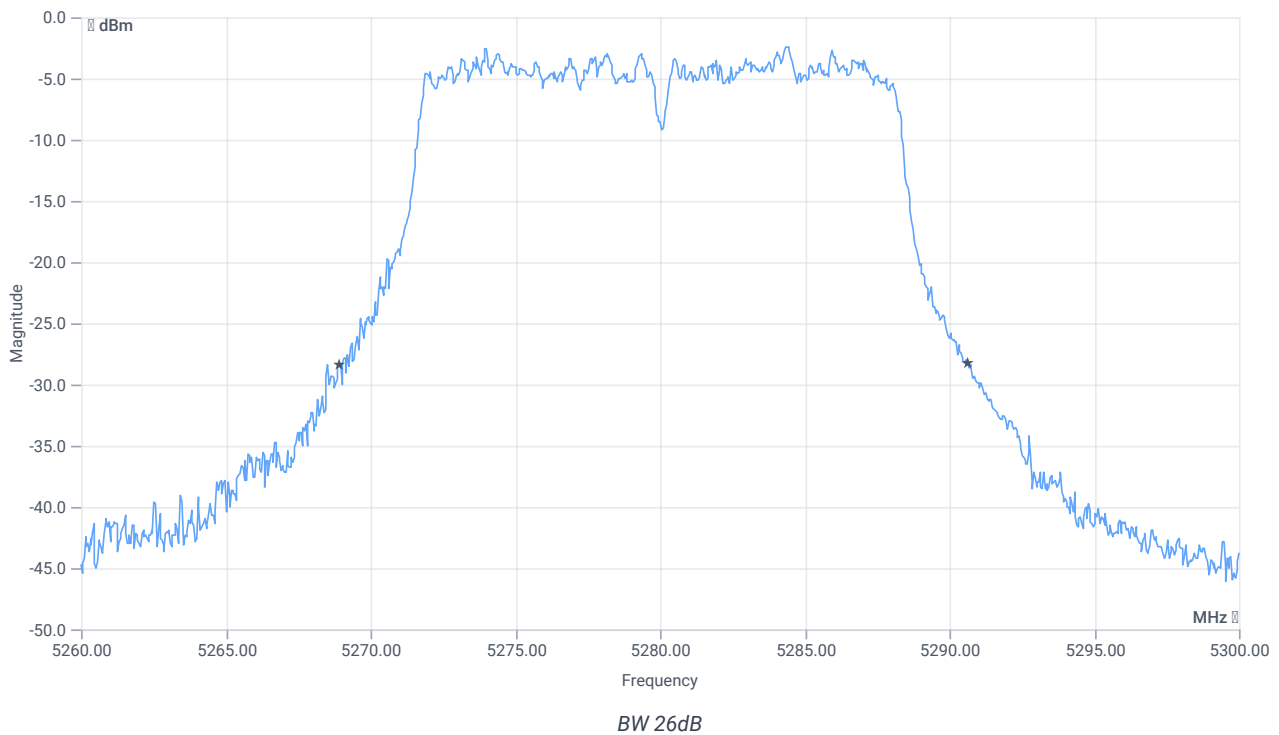
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.23	dBm	INFO
Ref. frequency	--	--	5274.210	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	21.72	MHz	INFO
T1 26dB	--	--	5268.9200	MHz	INFO
T2 26dB	--	--	5290.6400	MHz	INFO

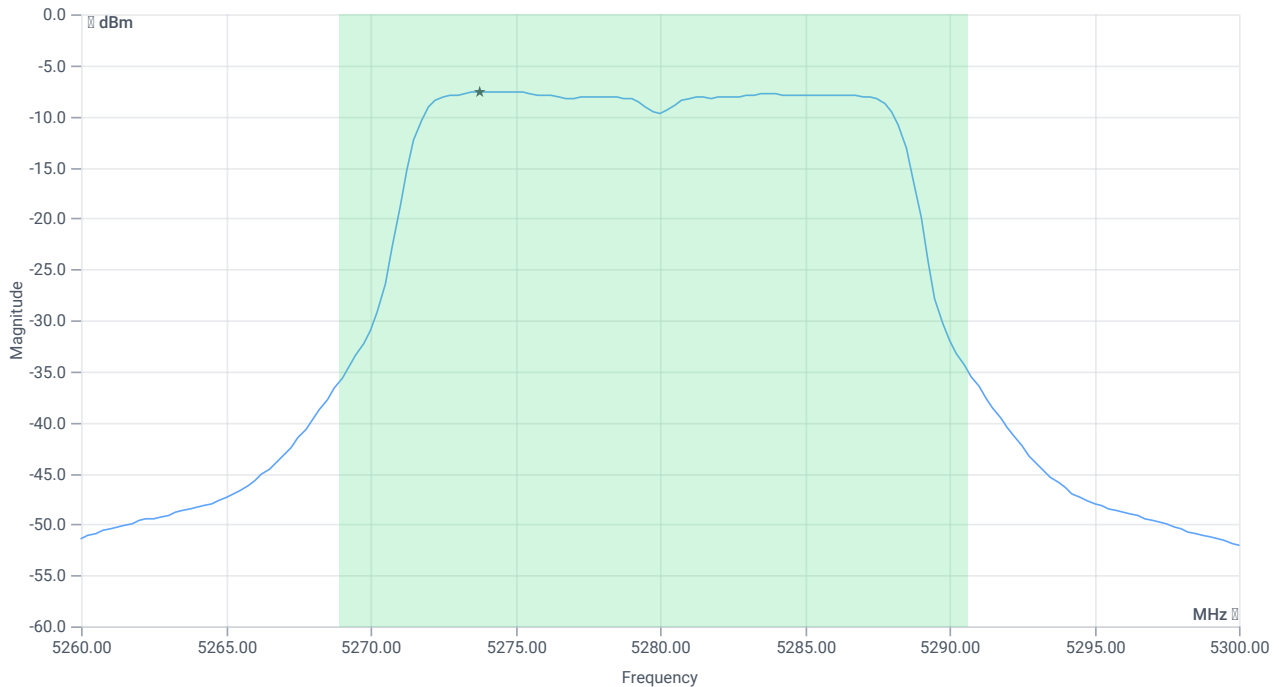
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5280 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.23 13.27 15
Start [MHz] Stop [MHz]	5260.000 5300.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	3.84	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	3.84	dBm	PASS
LIMIT: 11 dBm + 10 log 21.72					
Max output power DC corrected cond	---	24.37	3.84	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	7.54	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-7.55	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-7.55	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

References

TC start	14.05.2024 15:34:49
Ambit temp [°C] humidity [rel%]	28.3 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	True Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5320 MHz

RESULT: Reference power cond.

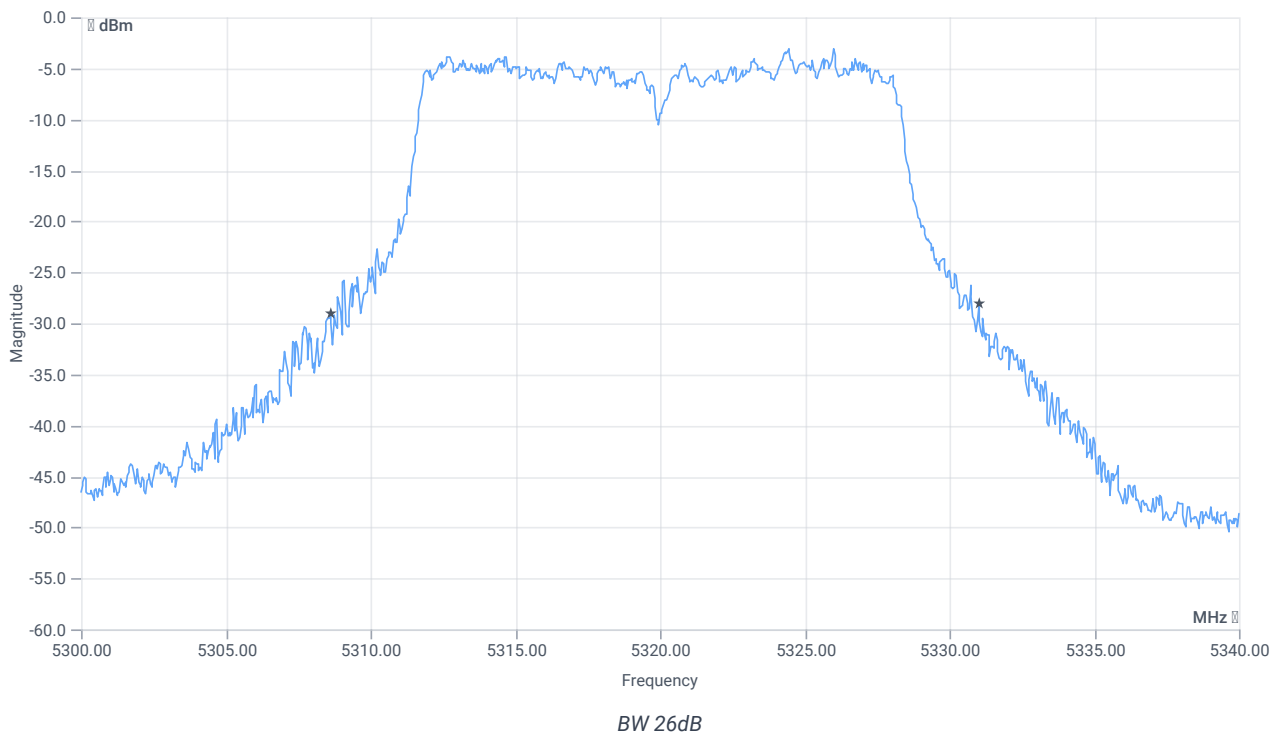
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.82	dBm	INFO
Ref. frequency	---	---	5316.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.4	MHz	INFO
T1 26dB	---	---	5308.6000	MHz	INFO
T2 26dB	---	---	5331.0000	MHz	INFO

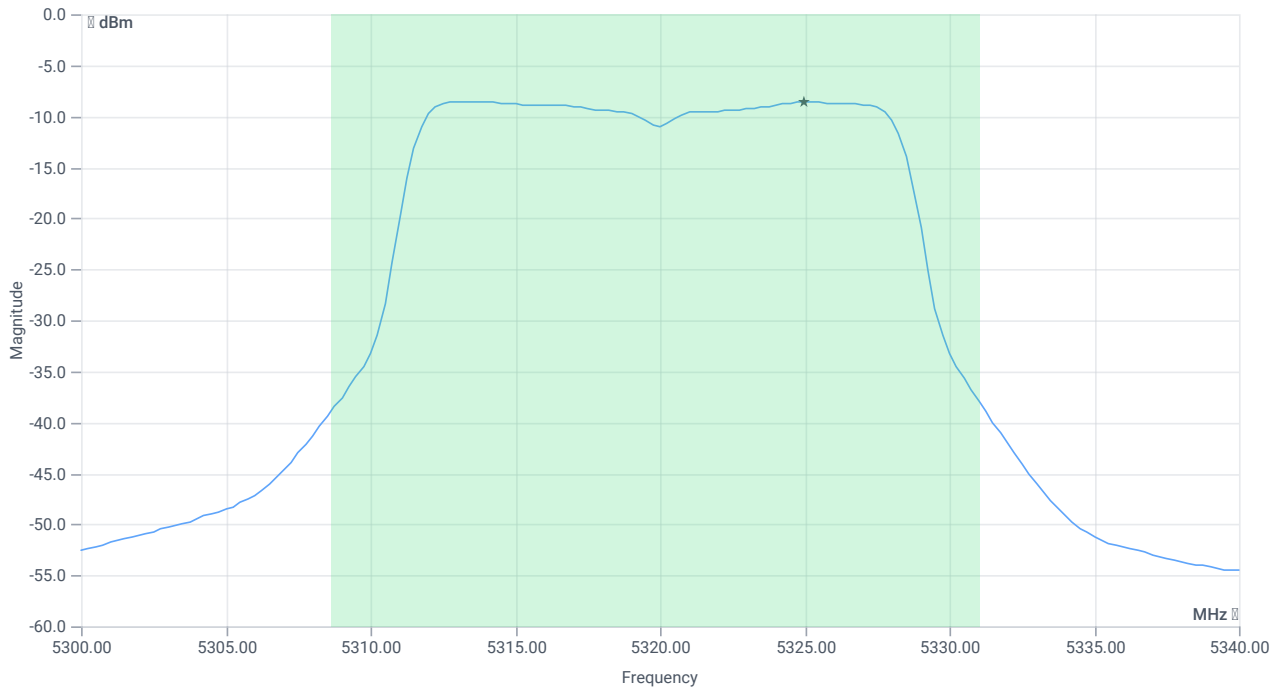
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5320 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.82 13.96 15
Start [MHz] Stop [MHz]	5300.000 5340.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	2.82	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	2.82	dBm	PASS
LIMIT: 11 dBm + 10 log 22.4					
Max output power DC corrected cond	---	24.5	2.82	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	6.52	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-8.54	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-8.54	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2A

References

TC start	14.05.2024 15:38:18
Ambit temp [°C] humidity [rel%]	28.3 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5260
Frequency mid to test	False Freq [MHz] 5280
Frequency high to test	True Freq [MHz] 5320
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5320 MHz

RESULT: Reference power cond.

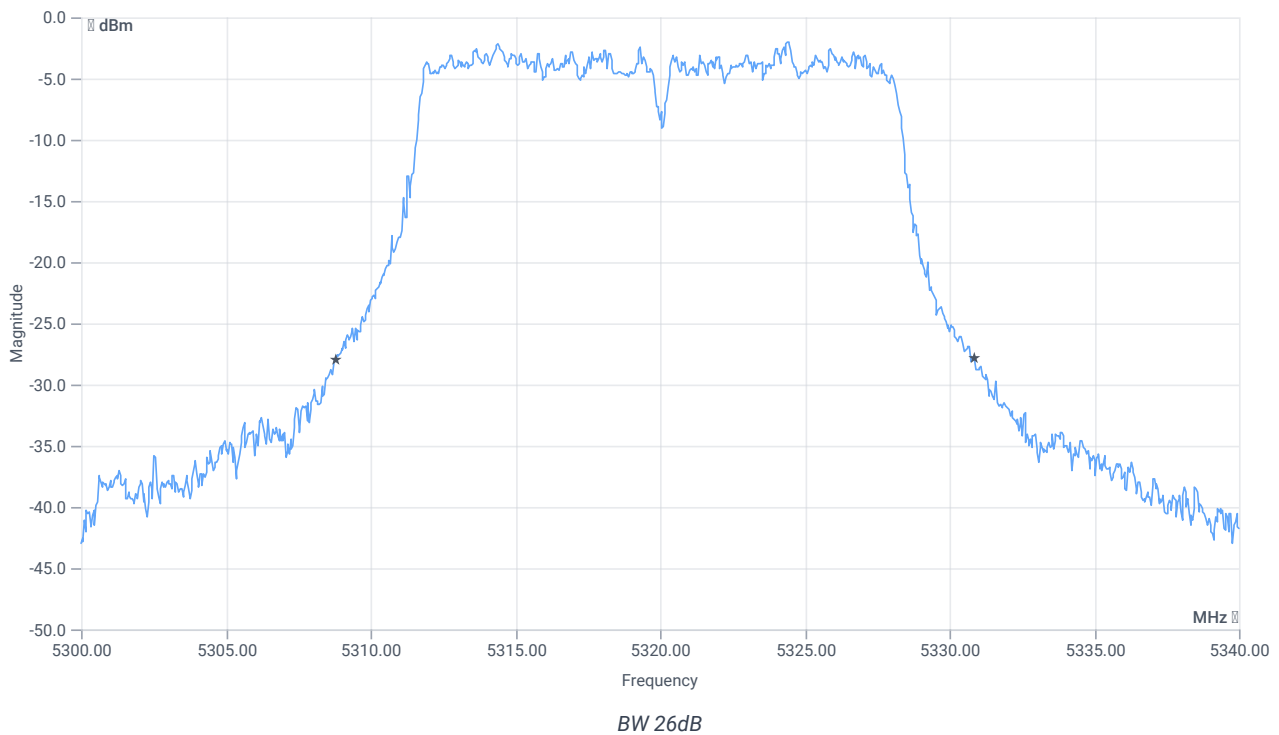
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.90	dBm	INFO
Ref. frequency	---	---	5323.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.08	MHz	INFO
T1 26dB	---	---	5308.8000	MHz	INFO
T2 26dB	---	---	5330.8800	MHz	INFO

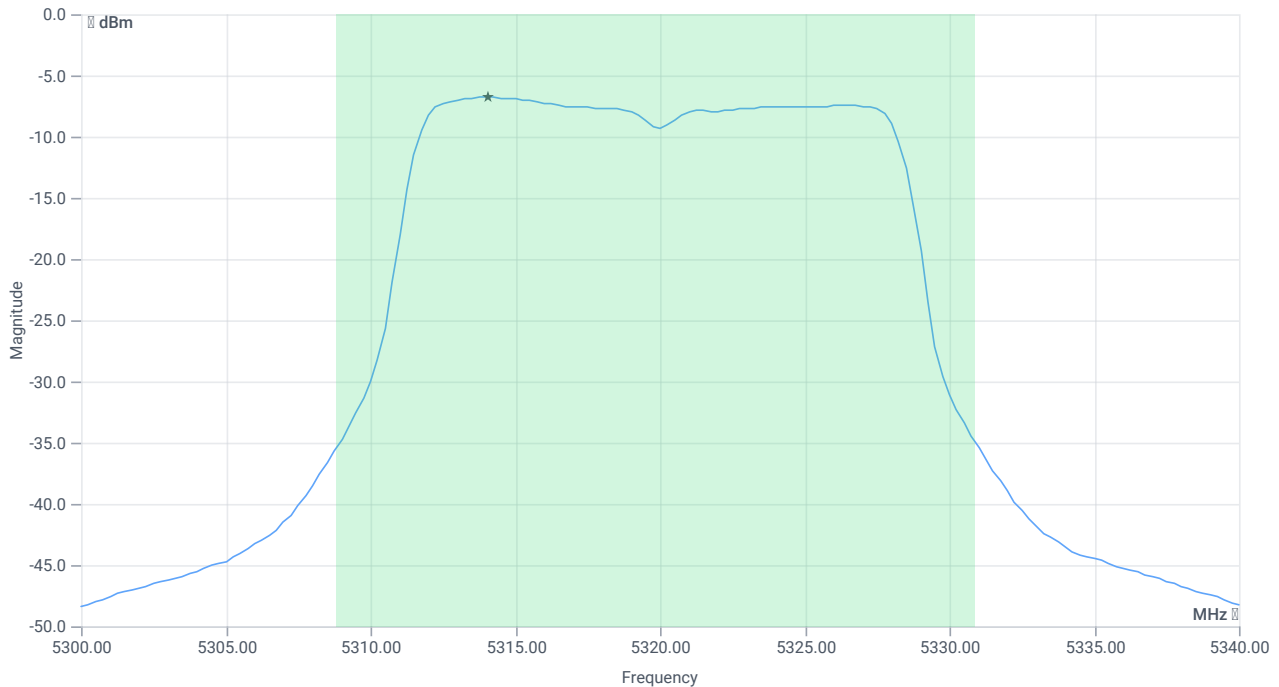
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5320 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.90 13.72 20
Start [MHz] Stop [MHz]	5300.000 5340.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	4.36	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	4.36	dBm	PASS
LIMIT: 11 dBm + 10 log 22.08					
Max output power DC corrected cond	---	24.44	4.36	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	8.06	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-6.75	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-6.75	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

References

TC start	14.05.2024 15:42:11
Ambit temp [°C] humidity [rel%]	28.3 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5500 MHz

RESULT: Reference power cond.

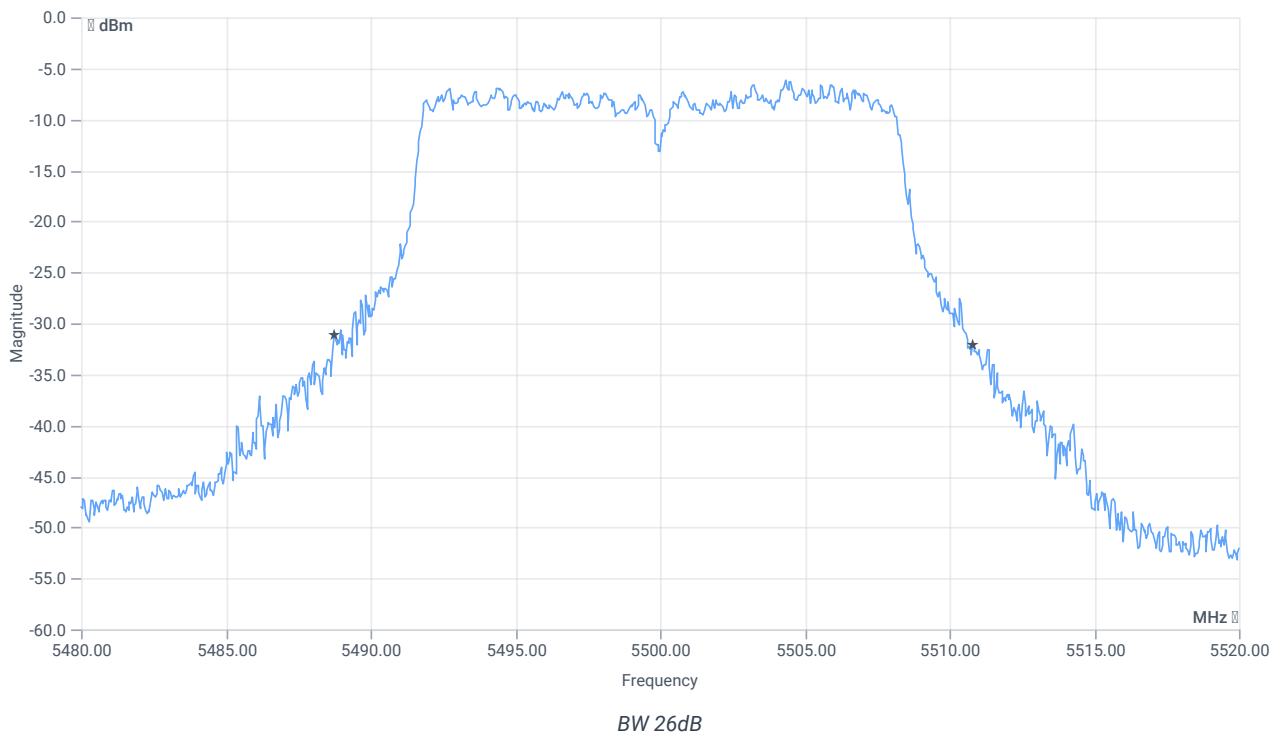
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.85	dBm	INFO
Ref. frequency	---	---	5505.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



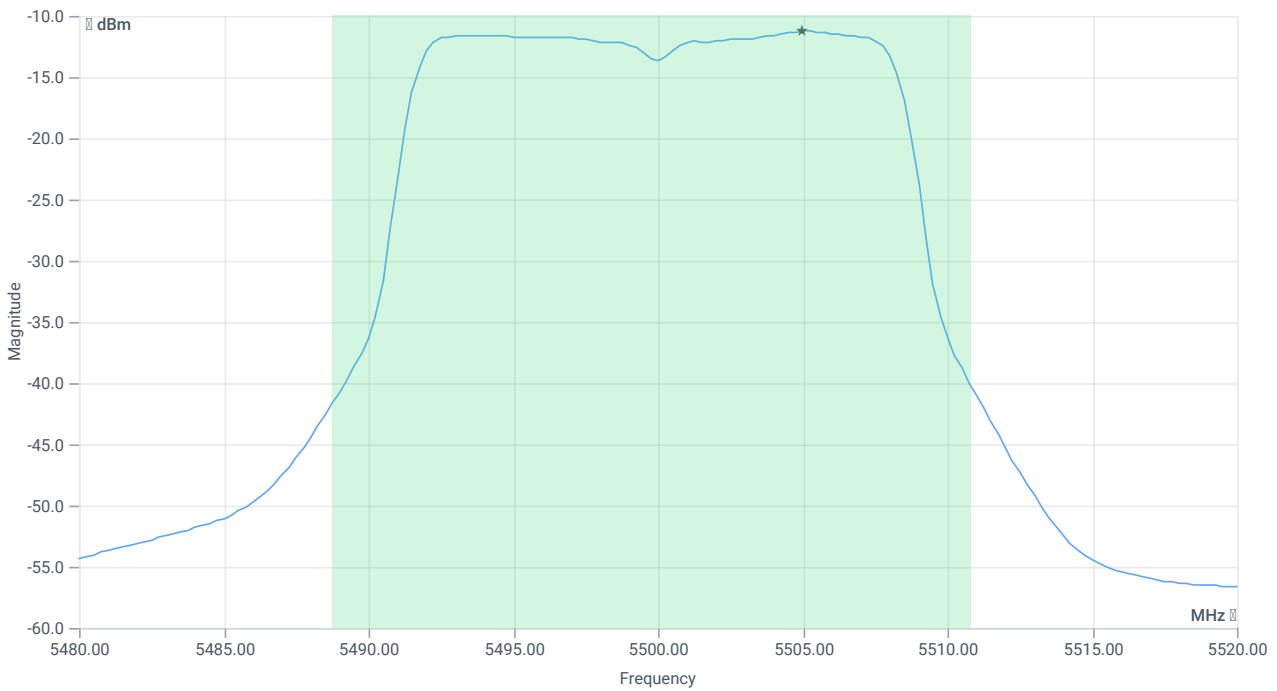
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.08	MHz	INFO
T1 26dB	---	---	5488.7200	MHz	INFO
T2 26dB	---	---	5510.8000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.15 13.54 15
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	0.04	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	0.04	dBm	PASS
LIMIT: 11 dBm + 10 log 22.08					
Max output power DC corrected cond	--	24.44	0.04	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	0.04	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-11.24	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-11.24	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

References

TC start	14.05.2024 15:45:39
Ambit temp [°C] humidity [rel%]	28.3 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5500 MHz

RESULT: Reference power cond.

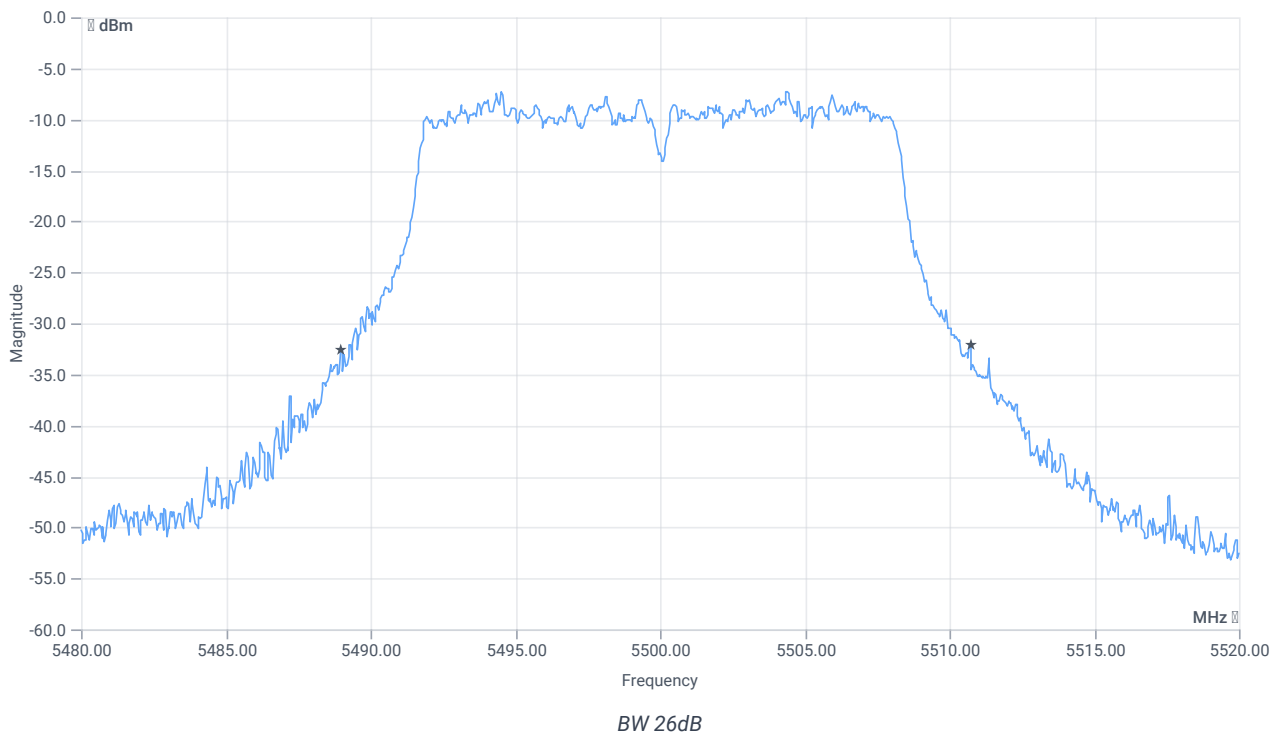
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-2.18	dBm	INFO
Ref. frequency	---	---	5503.200	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



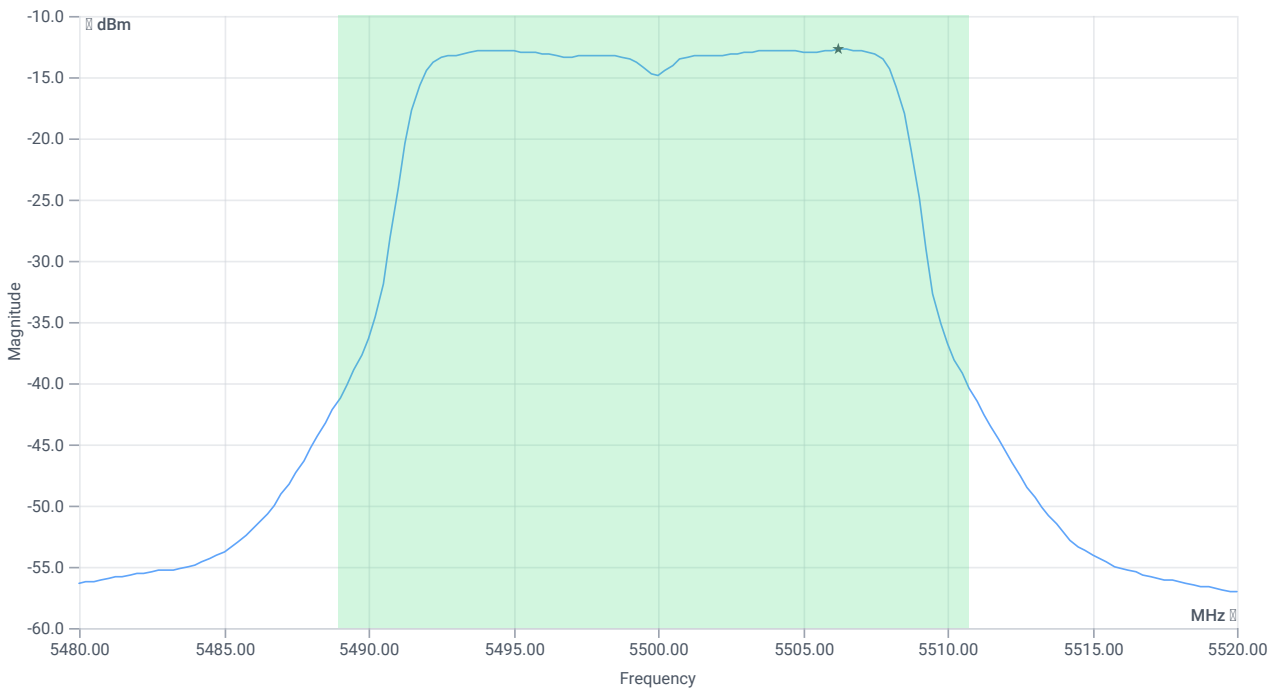
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.76	MHz	INFO
T1 26dB	---	---	5488.9600	MHz	INFO
T2 26dB	---	---	5510.7200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.82 13.42 15
Start [MHz] Stop [MHz]	5480.000 5520.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-1.24	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-1.24	dBm	PASS
LIMIT: 11 dBm + 10 log 21.76					
Max output power DC corrected cond	--	24.38	-1.24	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-1.24	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-12.75	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-12.75	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

References

TC start	14.05.2024 15:58:42
Ambit temp [°C] humidity [rel%]	28.2 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5600 MHz

RESULT: Reference power cond.

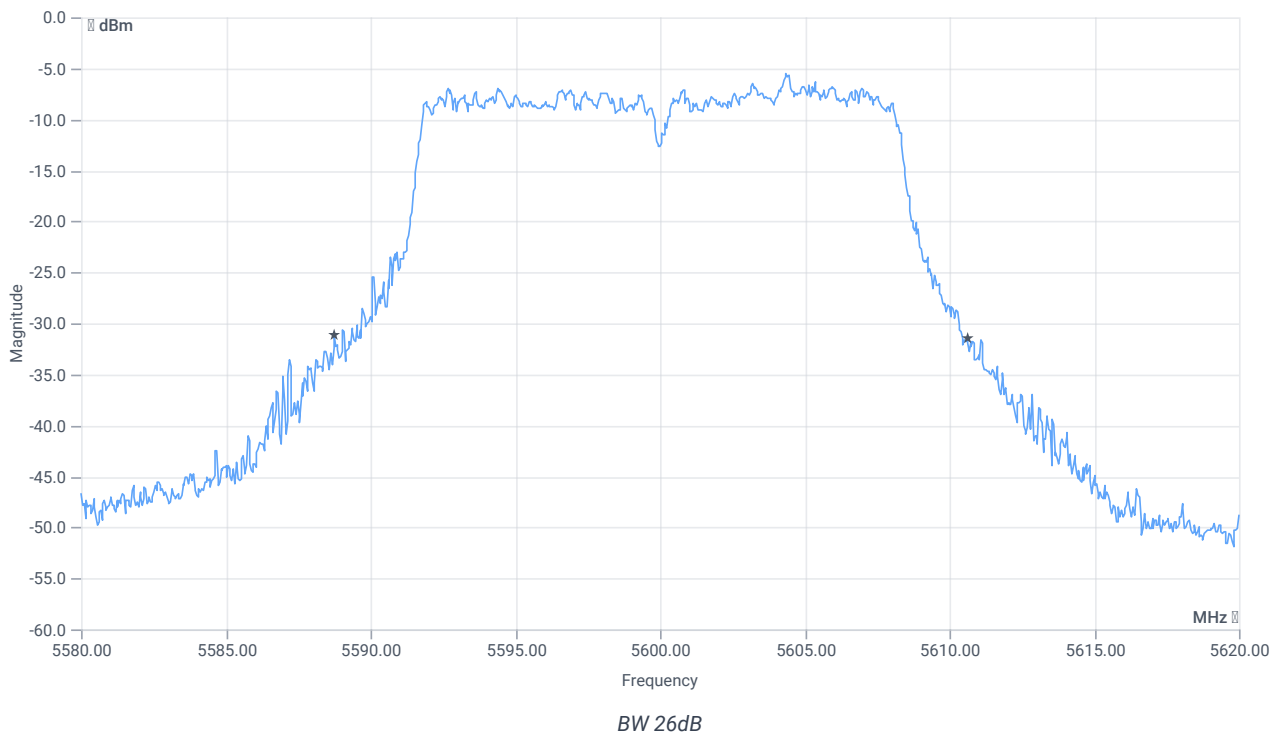
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.36	dBm	INFO
Ref. frequency	---	---	5605.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



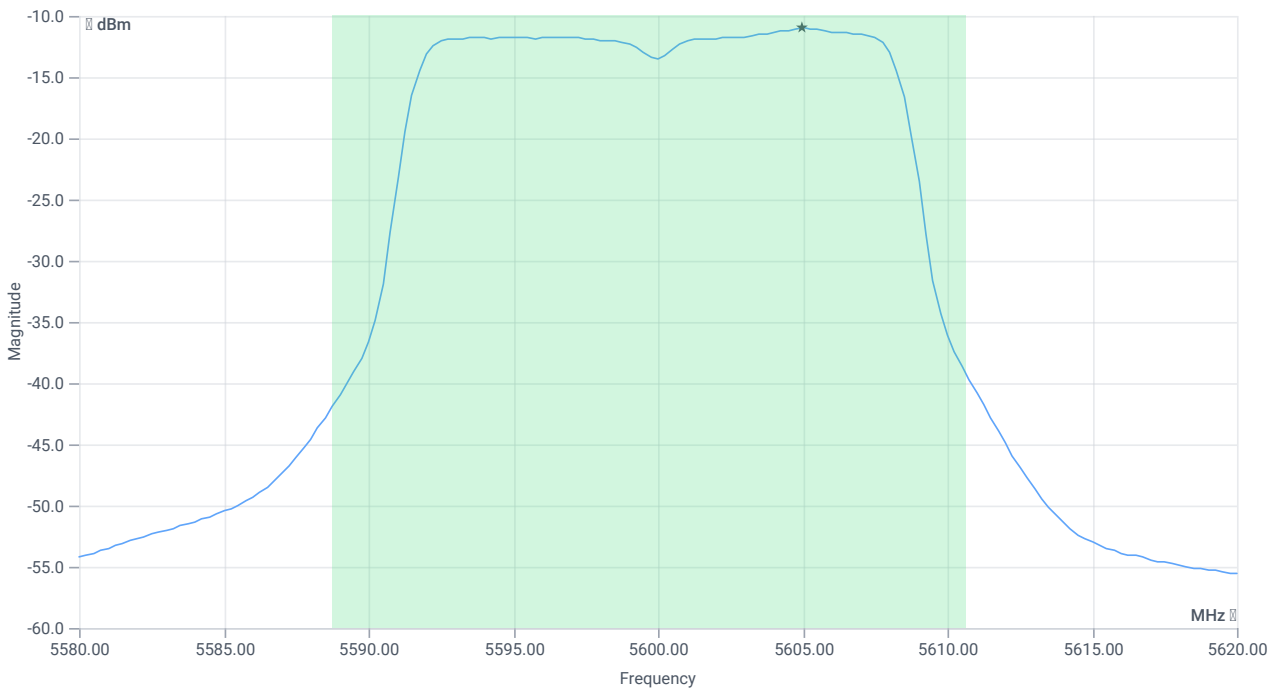
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.84	MHz	INFO
T1 26dB	---	---	5588.7600	MHz	INFO
T2 26dB	---	---	5610.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.64 13.81 15
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	0.11	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	0.11	dBm	PASS
LIMIT: 11 dBm + 10 log 21.84					
Max output power DC corrected cond	--	24.39	0.11	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	0.11	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-11.01	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-11.01	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

References

TC start	14.05.2024 16:02:07
Ambit temp [°C] humidity [rel%]	28.3 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	True Freq [MHz] 5600
Frequency high to test	False Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5600 MHz

RESULT: Reference power cond.

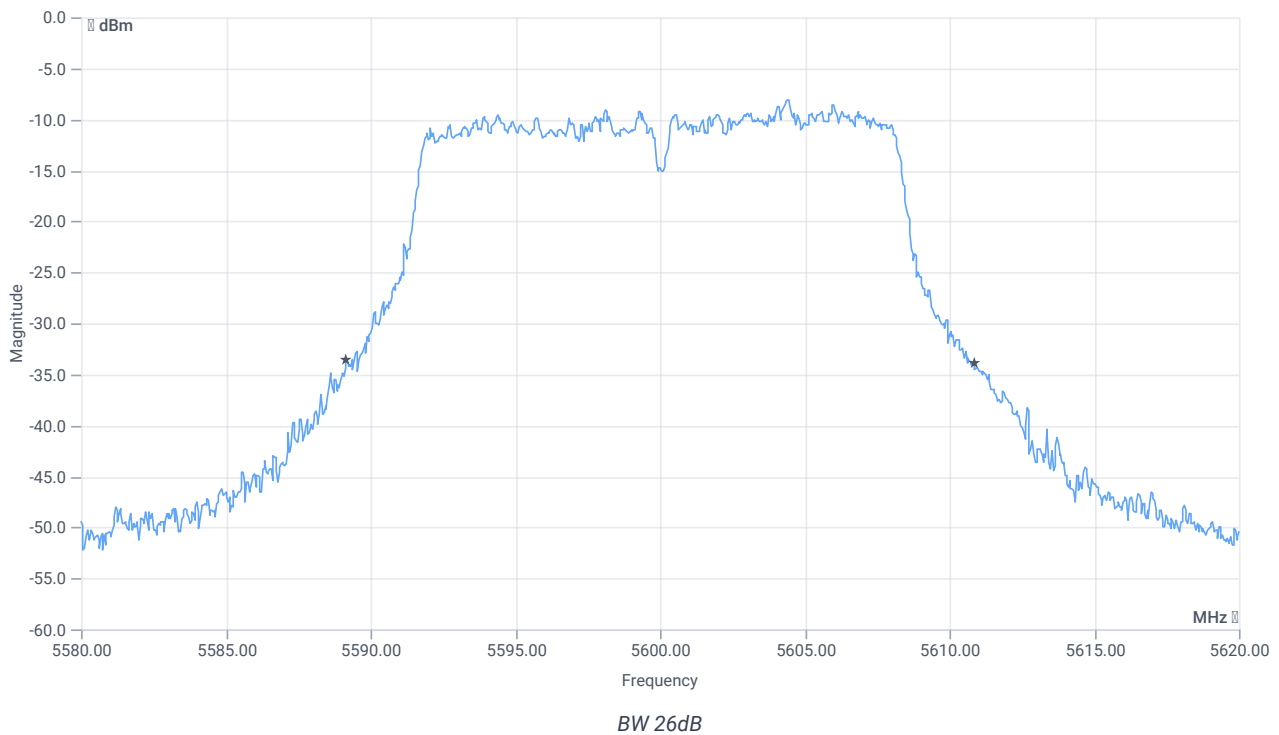
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-3.71	dBm	INFO
Ref. frequency	---	---	5602.800	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



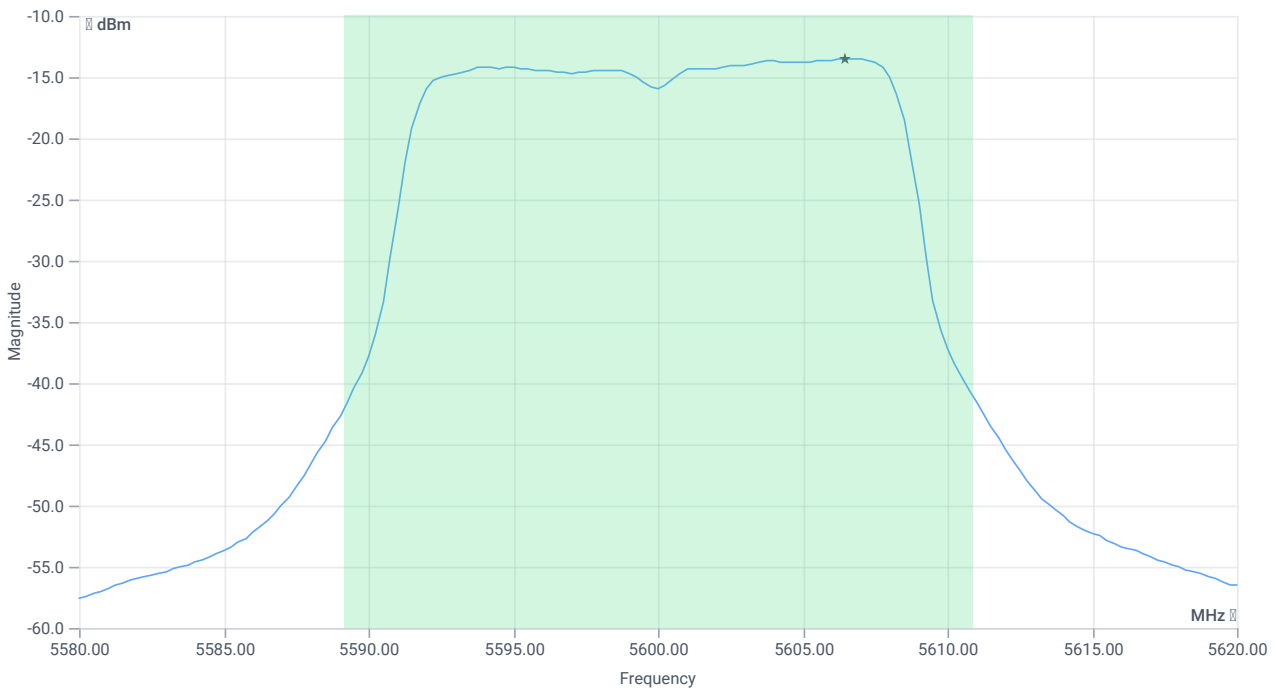
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.68	MHz	INFO
T1 26dB	---	---	5589.1600	MHz	INFO
T2 26dB	---	---	5610.8400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.29 13.5 10
Start [MHz] Stop [MHz]	5580.000 5620.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-2.35	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-2.35	dBm	PASS
LIMIT: 11 dBm + 10 log 21.68					
Max output power DC corrected cond	--	24.36	-2.35	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-2.35	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-13.5	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-13.5	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

References

TC start	14.05.2024 16:06:10
Ambit temp [°C] humidity [rel%]	28.3 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5700 MHz

RESULT: Reference power cond.

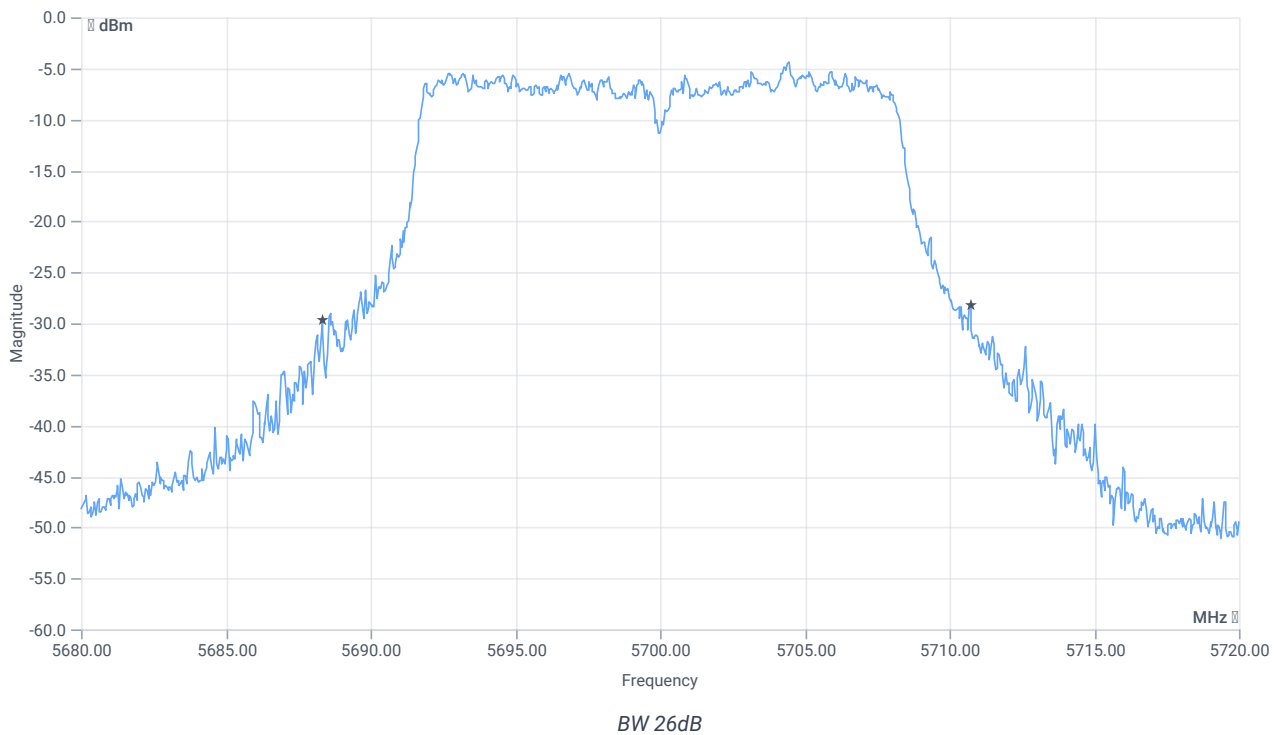
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	0.32	dBm	INFO
Ref. frequency	---	---	5692.810	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



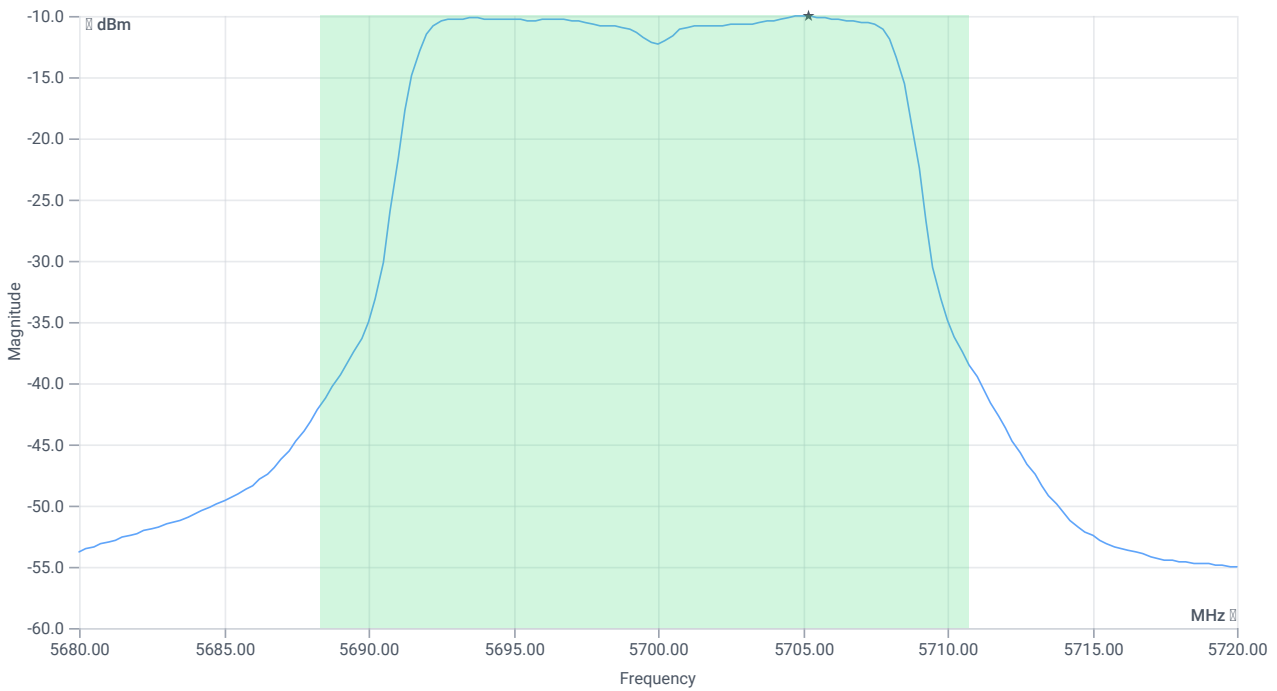
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	22.4	MHz	INFO
T1 26dB	---	---	5688.3200	MHz	INFO
T2 26dB	---	---	5710.7200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.32 13.47 15
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	1.36	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	1.36	dBm	PASS
LIMIT: 11 dBm + 10 log 22.4					
Max output power DC corrected cond	--	24.5	1.36	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	1.36	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-10	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-10	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT20 mode U-NII-2C

References

TC start	14.05.2024 16:09:38
Ambit temp [°C] humidity [rel%]	28.4 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT20 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5500
Frequency mid to test	False Freq [MHz] 5600
Frequency high to test	True Freq [MHz] 5700
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5700 MHz

RESULT: Reference power cond.

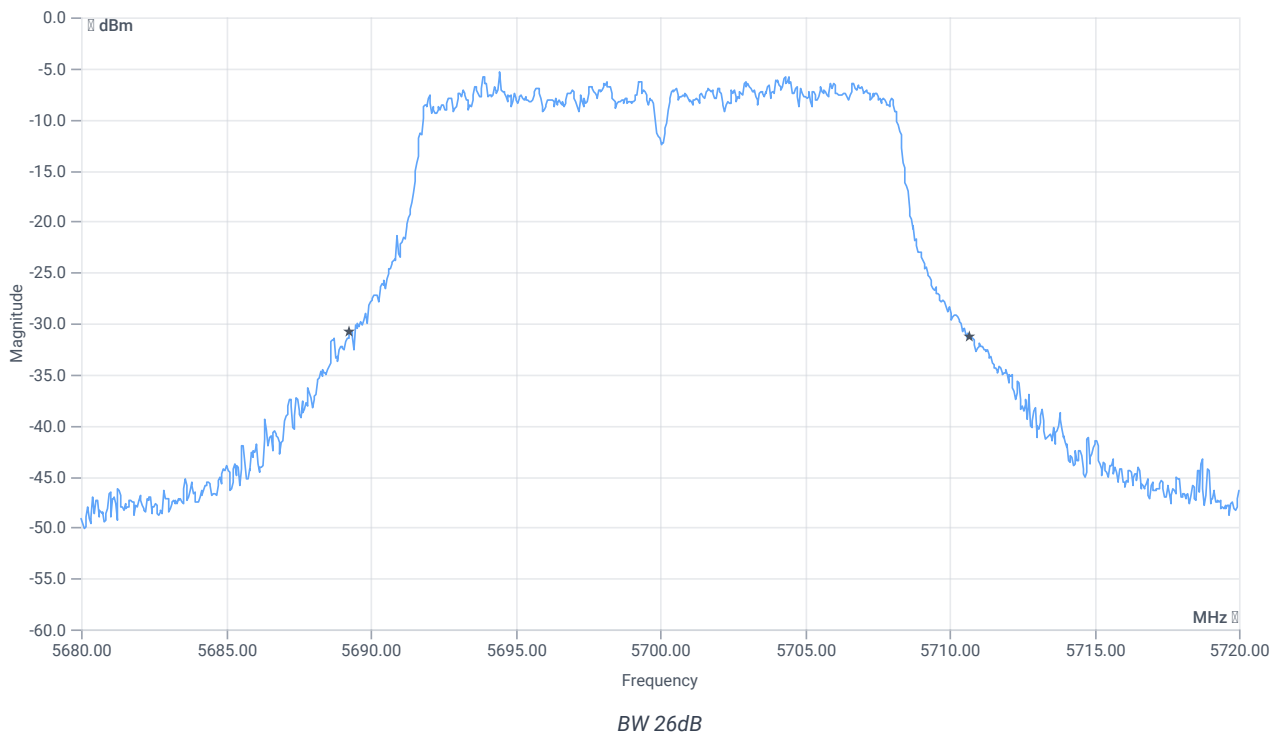
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.17	dBm	INFO
Ref. frequency	---	---	5704.800	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



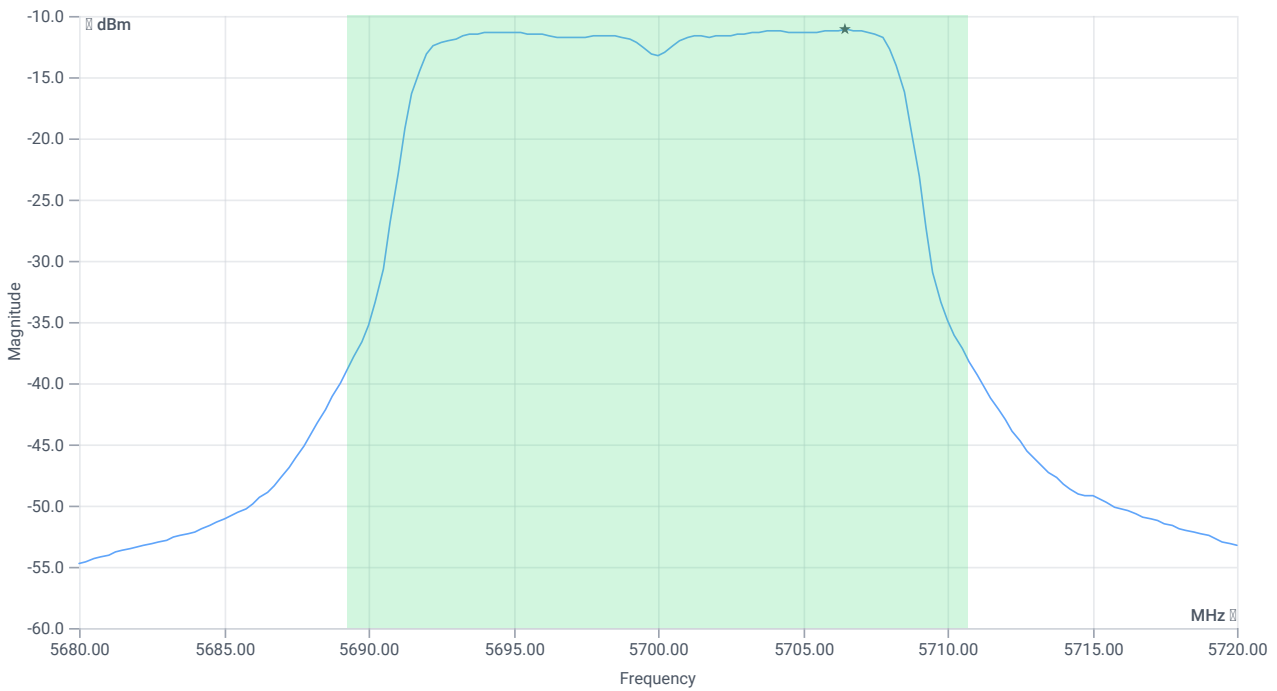
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	21.4	MHz	INFO
T1 26dB	---	---	5689.2800	MHz	INFO
T2 26dB	---	---	5710.6800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.83 13.43 15
Start [MHz] Stop [MHz]	5680.000 5720.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	0.3	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	0.3	dBm	PASS
LIMIT: 11 dBm + 10 log 21.4					
Max output power DC corrected cond	--	24.3	0.3	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	0.3	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-11.13	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-11.13	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

References

TC start	14.05.2024 16:13:55
Ambit temp [°C] humidity [rel%]	28.4 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5310
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5270 MHz

RESULT: Reference power cond.

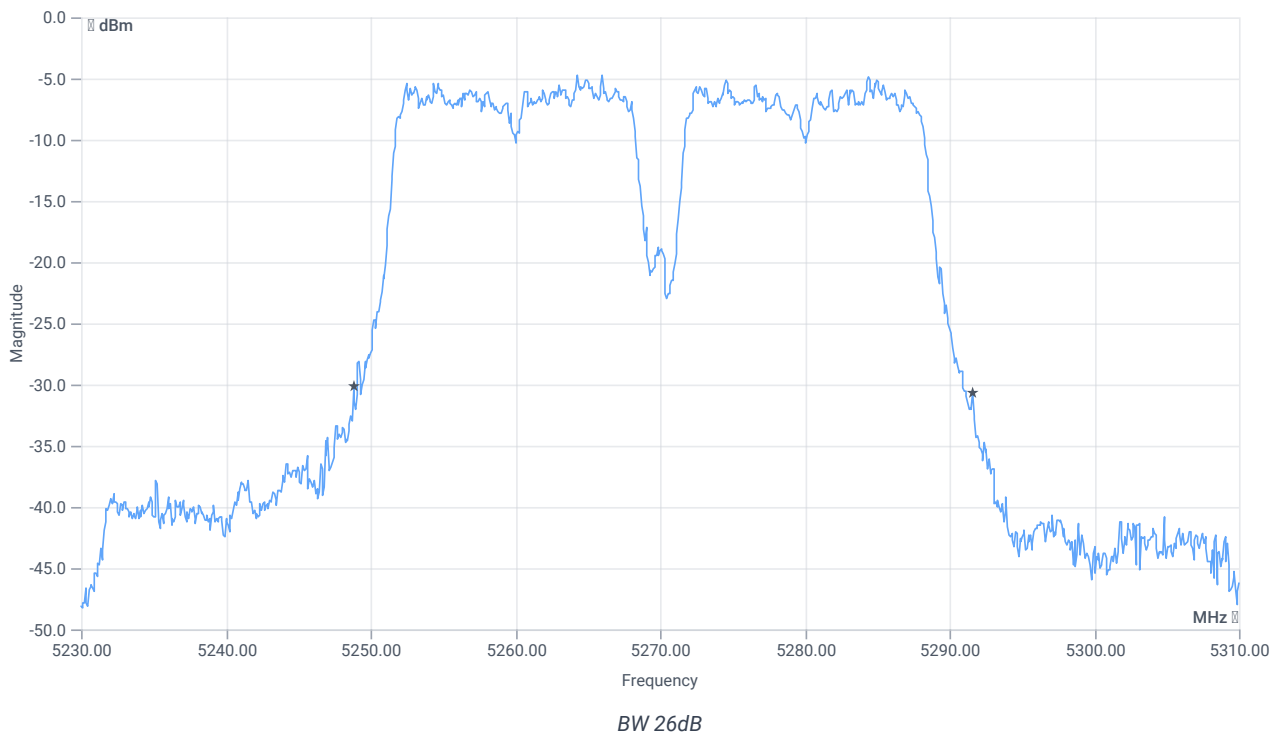
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-2.28	dBm	INFO
Ref. frequency	---	---	5285.180	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.8	MHz	INFO
T1 26dB	---	---	5248.8000	MHz	INFO
T2 26dB	---	---	5291.6000	MHz	INFO

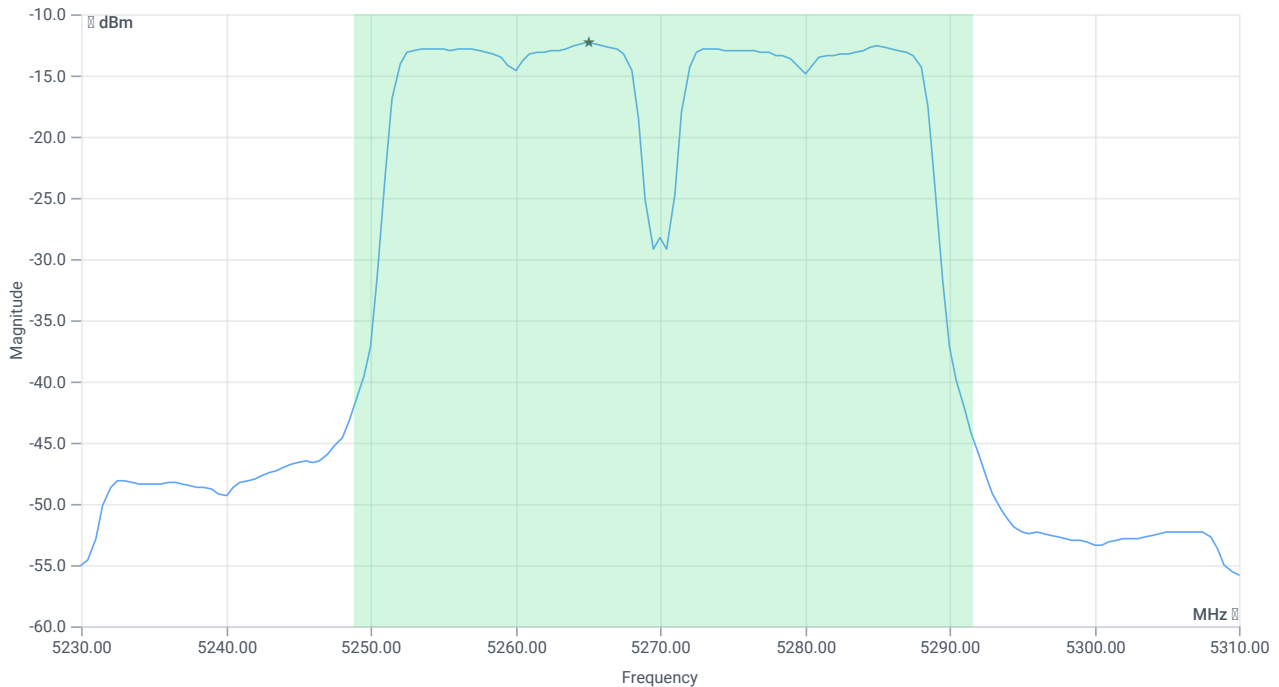
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5270 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.72 13.27 15
Start [MHz] Stop [MHz]	5230.000 5310.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	1.85	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	1.85	dBm	PASS
LIMIT: 11 dBm + 10 log 42.8					
Max output power DC corrected cond	---	27.31	1.85	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	5.55	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-12.33	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-12.33	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

References

TC start	14.05.2024 16:17:38
Ambit temp [°C] humidity [rel%]	28.5 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5310
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5270 MHz

RESULT: Reference power cond.

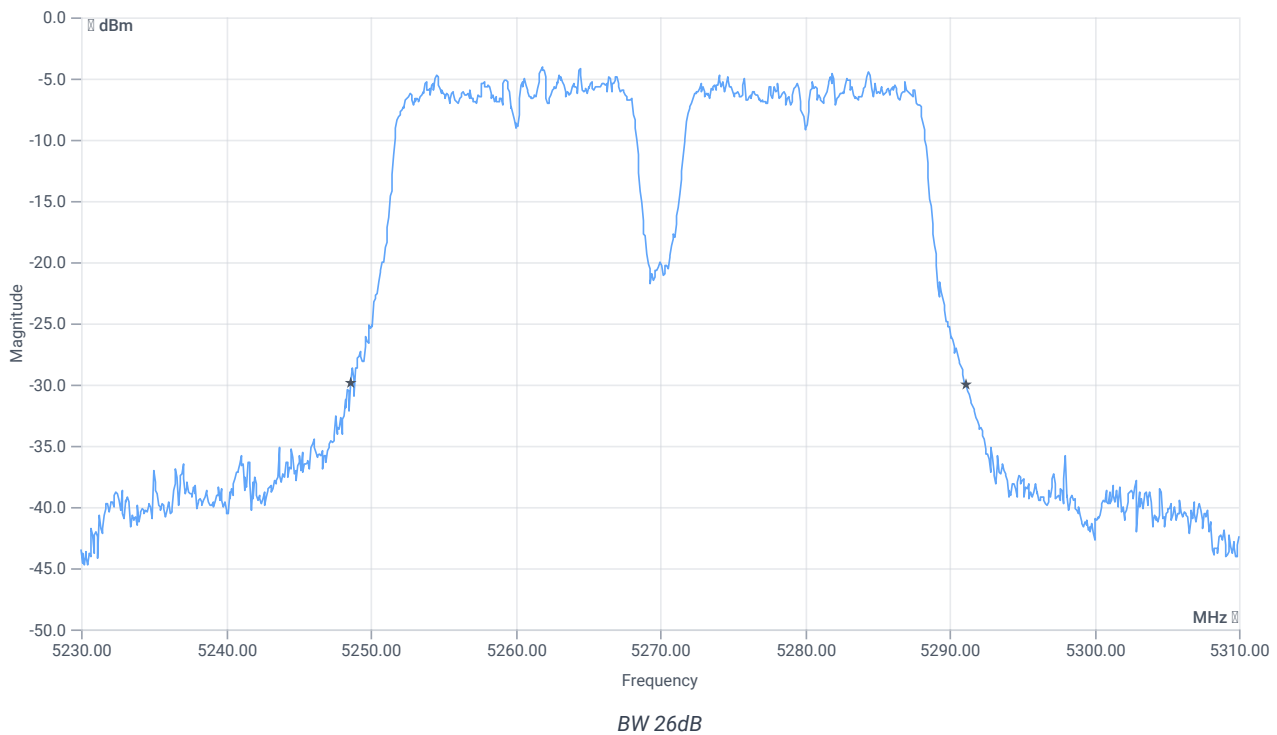
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-2.12	dBm	INFO
Ref. frequency	--	--	5274.600	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	42.56	MHz	INFO
T1 26dB	--	--	5248.6400	MHz	INFO
T2 26dB	--	--	5291.2000	MHz	INFO

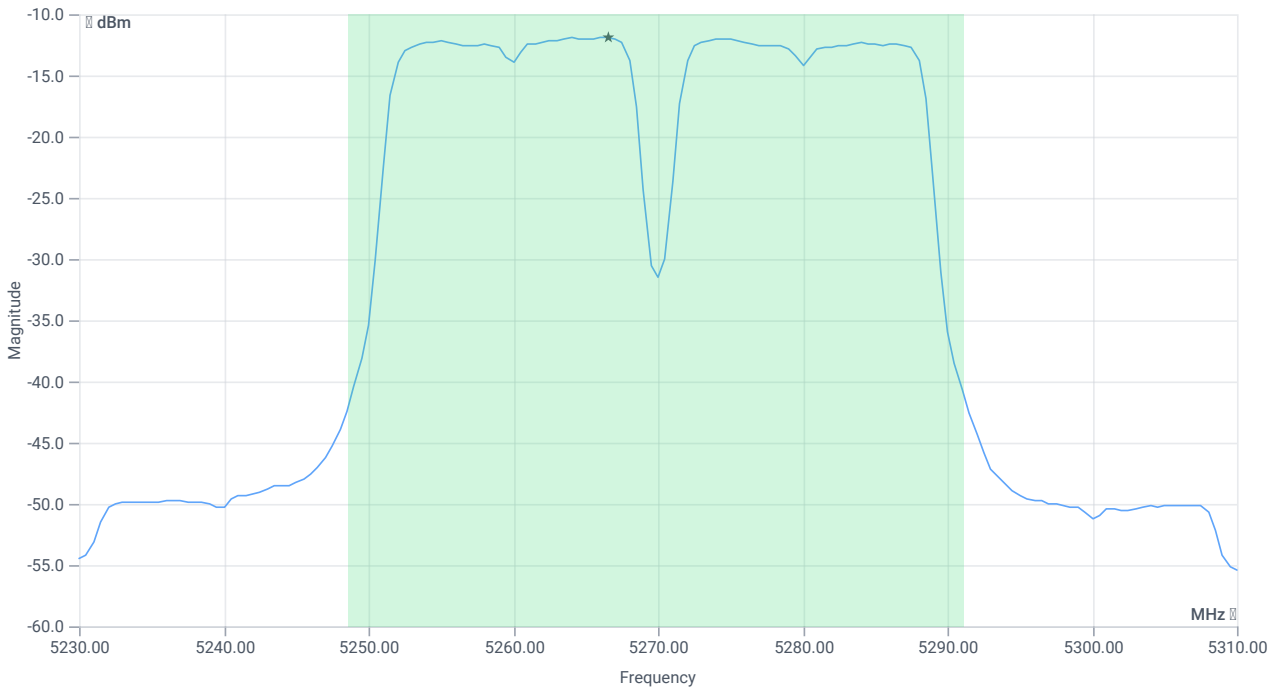
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5270 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.88 13.15 15
Start [MHz] Stop [MHz]	5230.000 5310.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	2.46	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	2.46	dBm	PASS
LIMIT: 11 dBm + 10 log 42.56					
Max output power DC corrected cond	--	27.29	2.46	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	6.16	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-11.88	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-11.88	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

References

TC start	14.05.2024 16:22:21
Ambit temp [°C] humidity [rel%]	28.4 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5310
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5310 MHz

RESULT: Reference power cond.

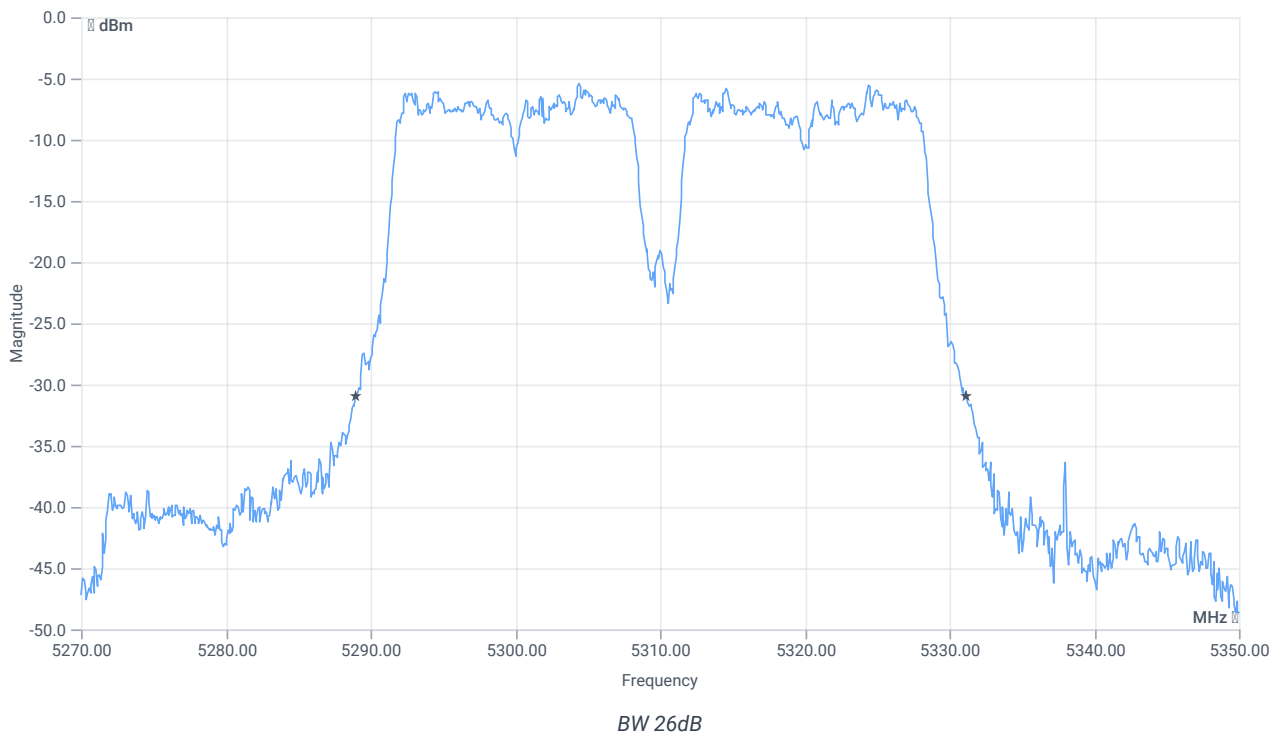
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-2.74	dBm	INFO
Ref. frequency	---	---	5305.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.24	MHz	INFO
T1 26dB	---	---	5288.9600	MHz	INFO
T2 26dB	---	---	5331.2000	MHz	INFO

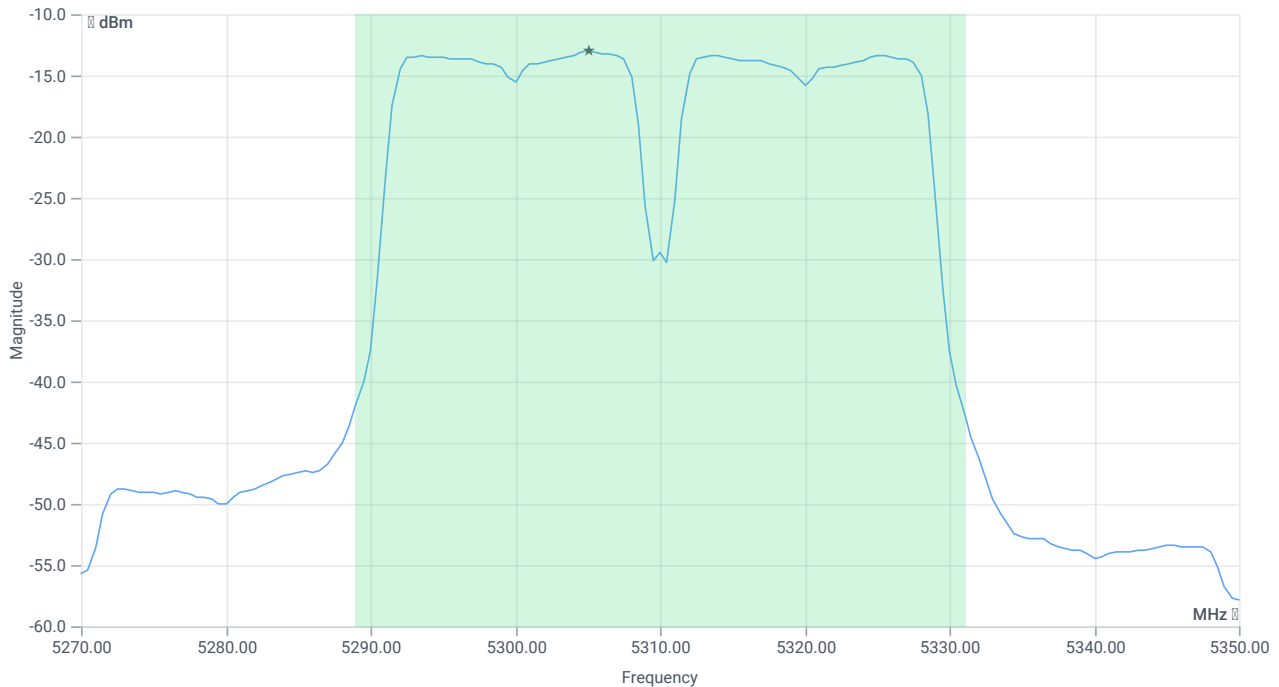
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5310 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.26 13.79 10
Start [MHz] Stop [MHz]	5270.000 5350.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	1.12	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	1.12	dBm	PASS
LIMIT: 11 dBm + 10 log 42.24					
Max output power DC corrected cond	---	27.26	1.12	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	4.82	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-12.98	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-12.98	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2A

References

TC start	14.05.2024 16:26:01
Ambit temp [°C] humidity [rel%]	28.4 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5270
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5310
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5310 MHz

RESULT: Reference power cond.

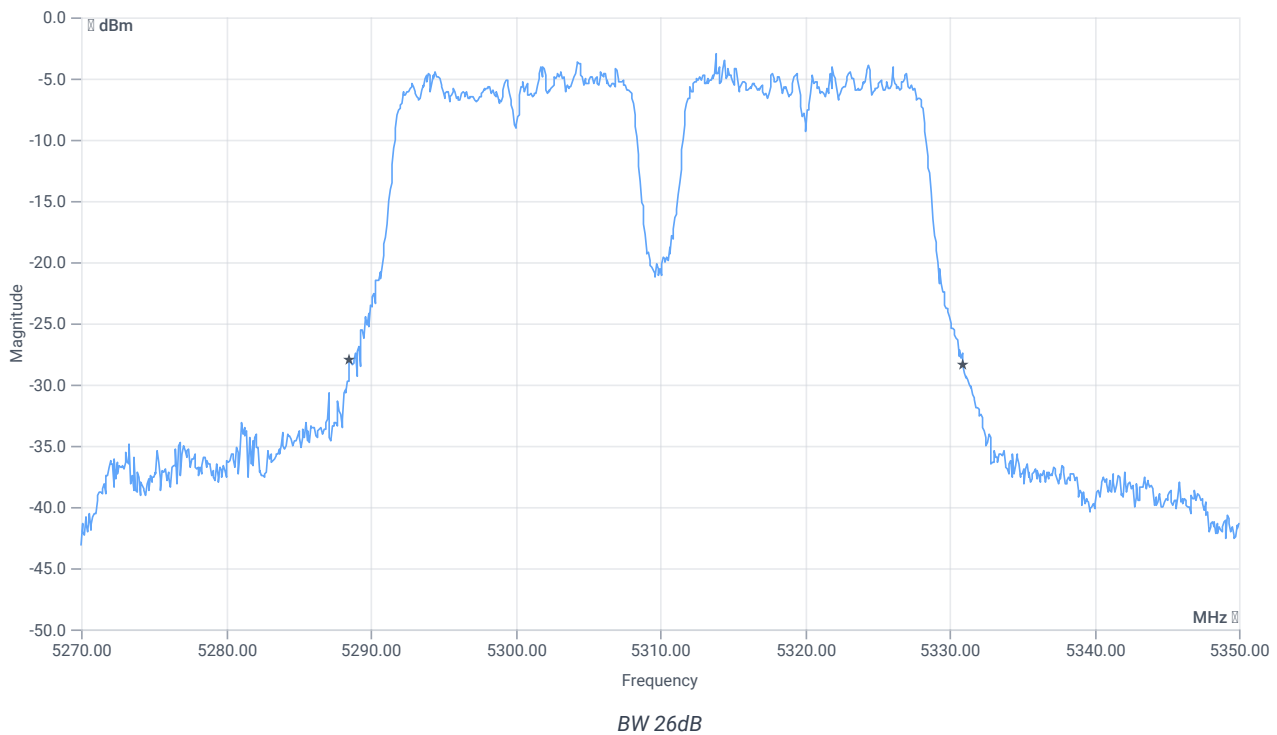
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.08	dBm	INFO
Ref. frequency	---	---	5314.400	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.4	MHz	INFO
T1 26dB	---	---	5288.5600	MHz	INFO
T2 26dB	---	---	5330.9600	MHz	INFO

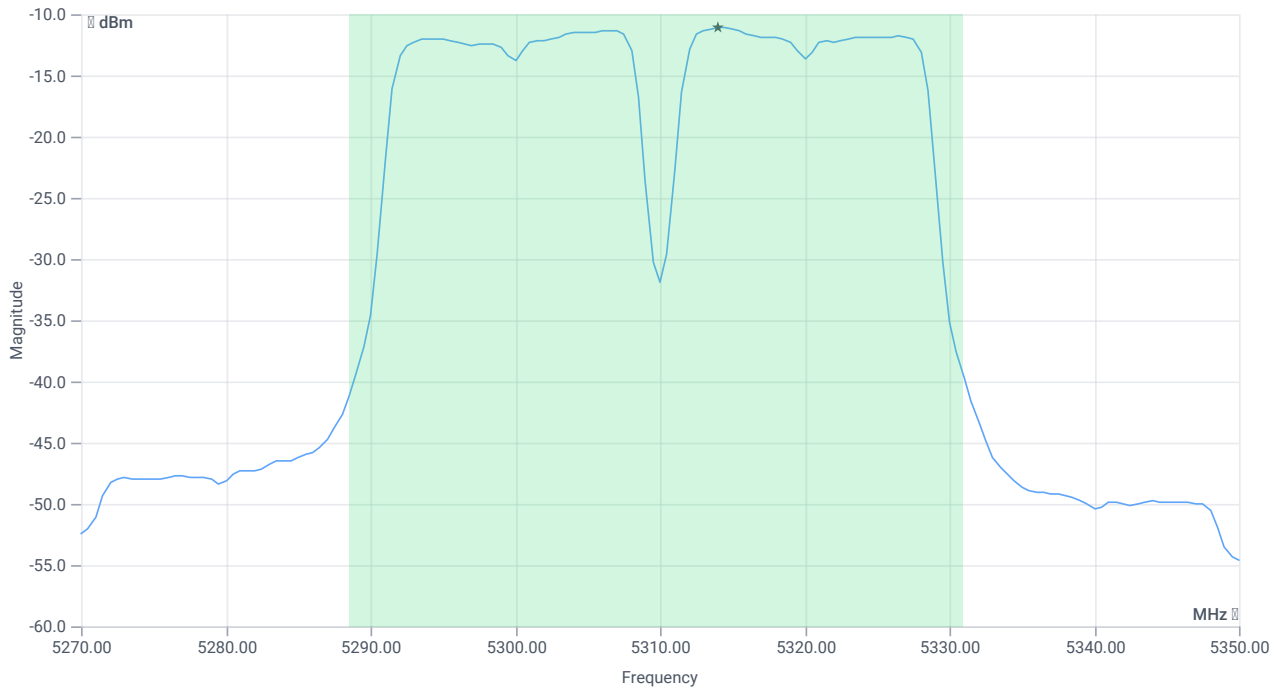
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5310 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.92 13.61 15
Start [MHz] Stop [MHz]	5270.000 5350.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	2.95	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	2.95	dBm	PASS
LIMIT: 11 dBm + 10 log 42.4					
Max output power DC corrected cond	---	27.27	2.95	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	6.65	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-11.08	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-11.08	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

References

TC start	14.05.2024 16:31:07
Ambit temp [°C] humidity [rel%]	28.5 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5510 MHz

RESULT: Reference power cond.

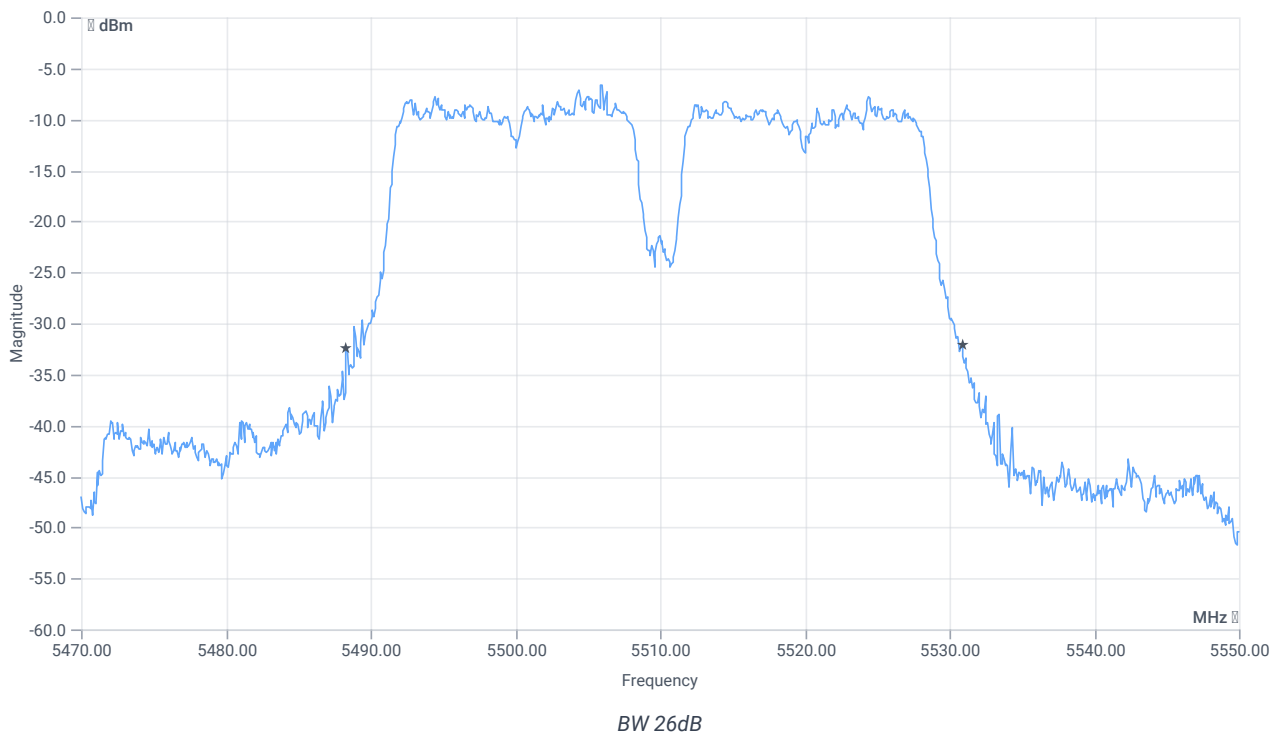
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-4.71	dBm	INFO
Ref. frequency	---	---	5496.810	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



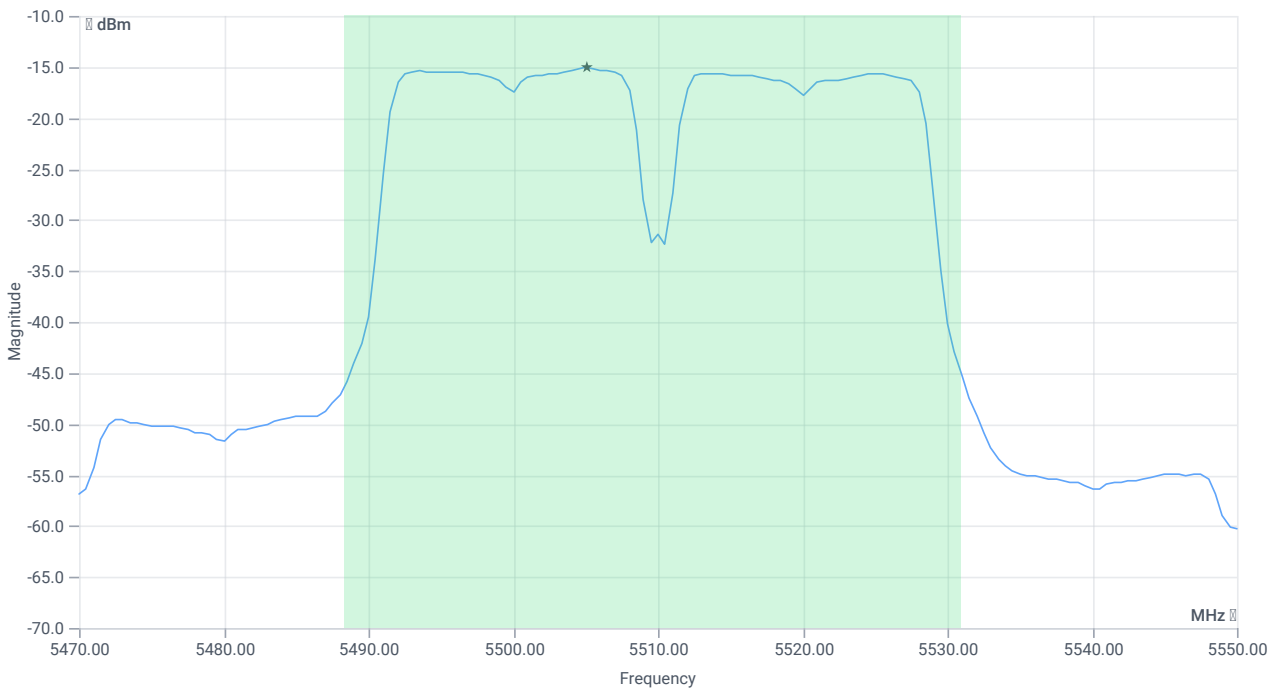
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.56	MHz	INFO
T1 26dB	---	---	5488.3200	MHz	INFO
T2 26dB	---	---	5530.8800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.29 13.59 10
Start [MHz] Stop [MHz]	5470.000 5550.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-0.96	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-0.96	dBm	PASS
LIMIT: 11 dBm + 10 log 42.56					
Max output power DC corrected cond	--	27.29	-0.96	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-0.96	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-15.05	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-15.05	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

References

TC start	14.05.2024 16:34:32
Ambit temp [°C] humidity [rel%]	28.6 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5510 MHz

RESULT: Reference power cond.

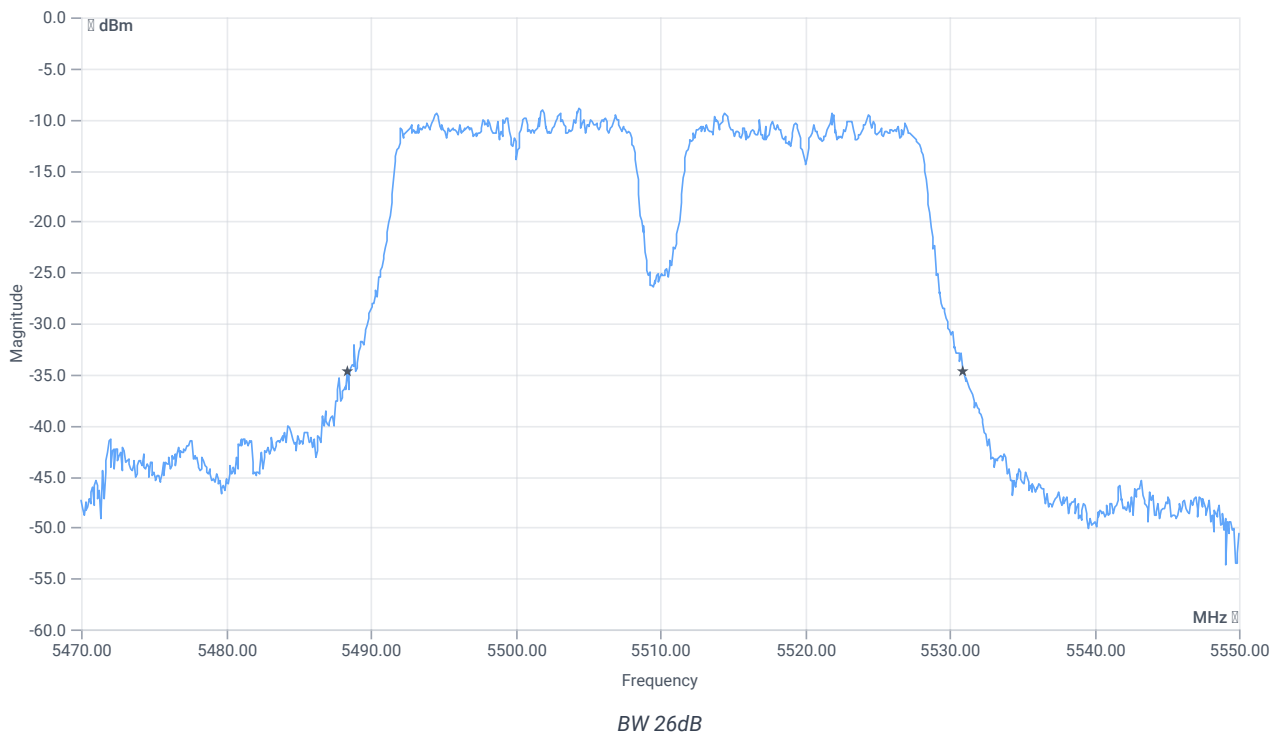
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-6.74	dBm	INFO
Ref. frequency	---	---	5513.000	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



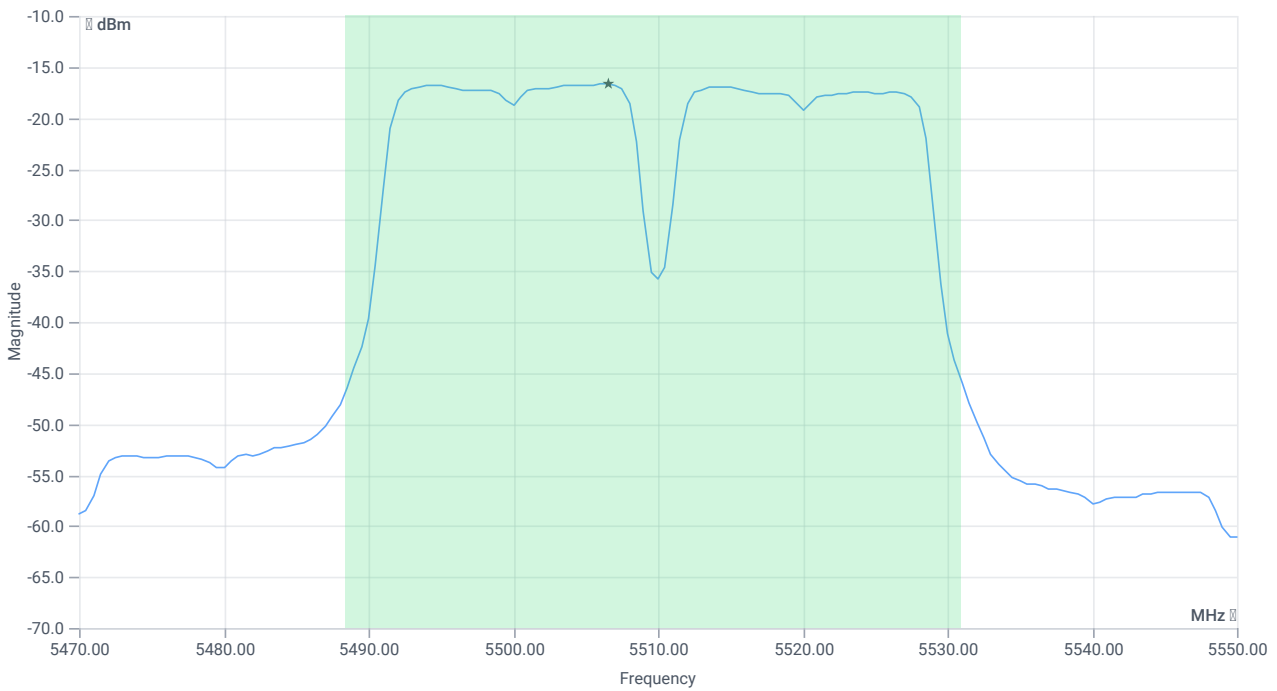
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.56	MHz	INFO
T1 26dB	---	---	5488.4000	MHz	INFO
T2 26dB	---	---	5530.9600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.26 13.47 10
Start [MHz] Stop [MHz]	5470.000 5550.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-2.42	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-2.42	dBm	PASS
LIMIT: 11 dBm + 10 log 42.56					
Max output power DC corrected cond	--	27.29	-2.42	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-2.42	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-16.72	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-16.72	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

References

TC start	14.05.2024 16:42:11
Ambit temp [°C] humidity [rel%]	28.6 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	True Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5590 MHz

RESULT: Reference power cond.

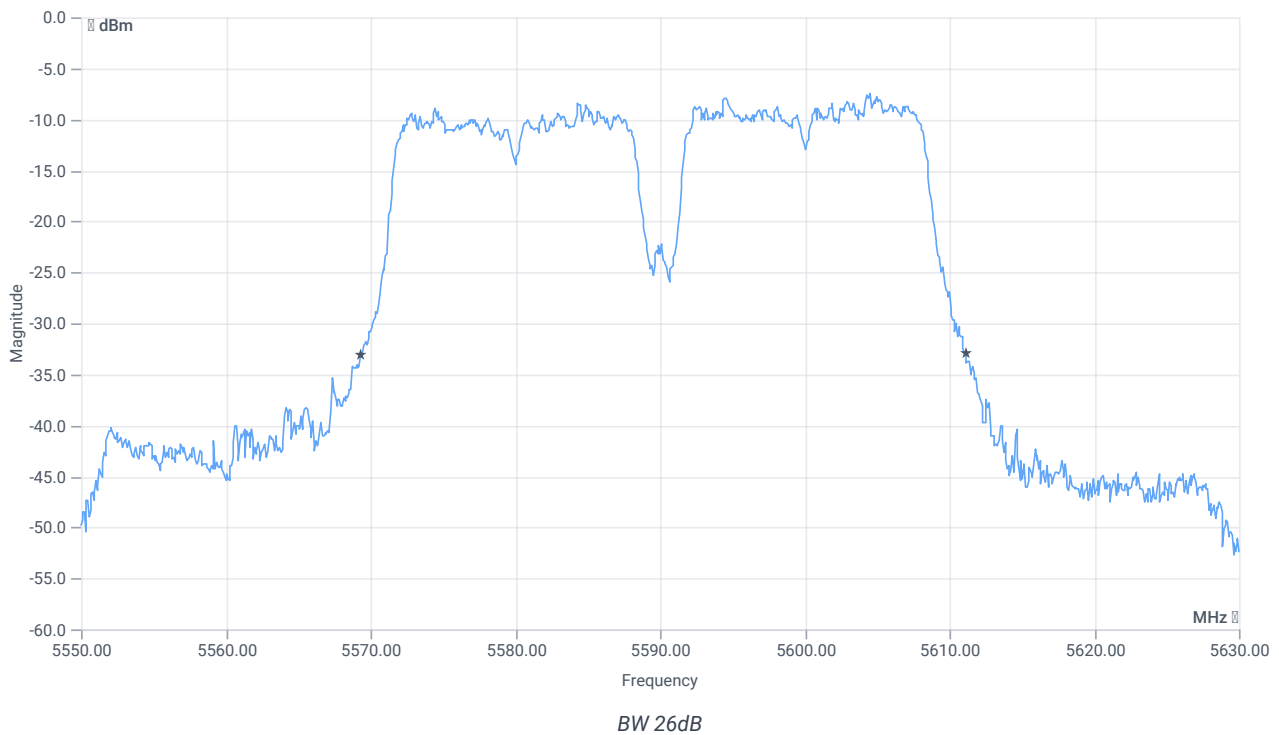
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-4.33	dBm	INFO
Ref. frequency	---	---	5604.990	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



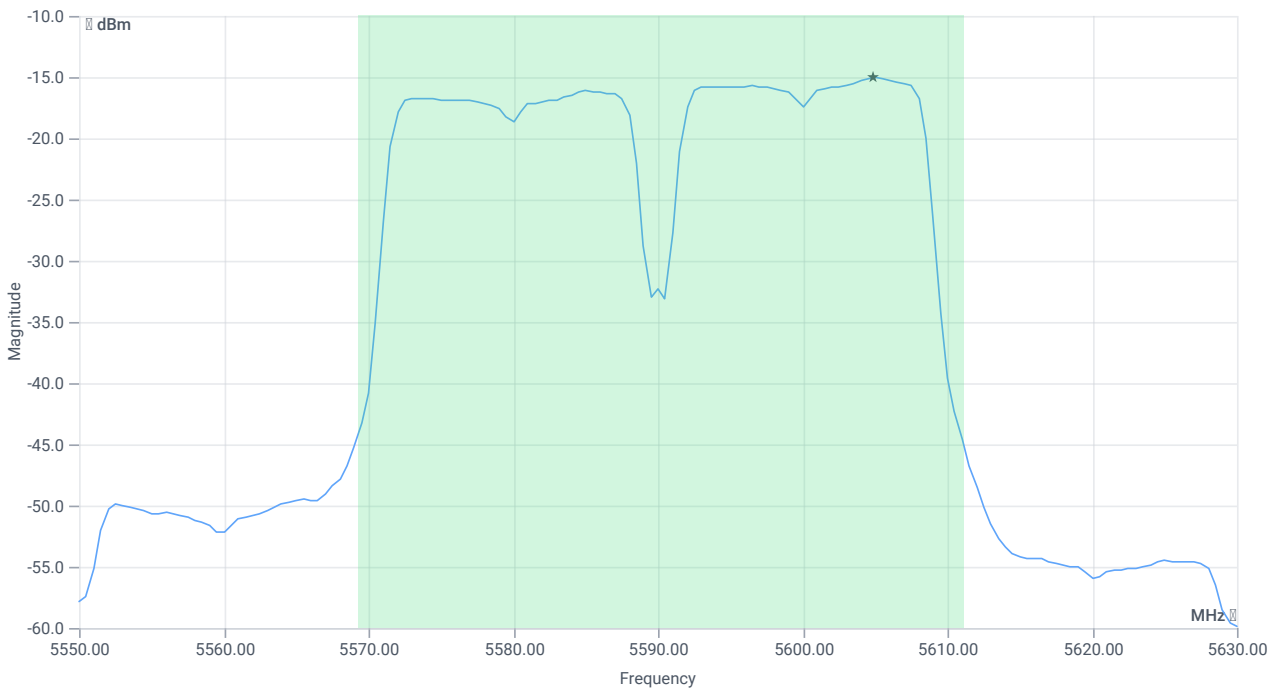
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.84	MHz	INFO
T1 26dB	---	---	5569.2800	MHz	INFO
T2 26dB	---	---	5611.1200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.67 13.8 10
Start [MHz] Stop [MHz]	5550.000 5630.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-1.36	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-1.36	dBm	PASS
LIMIT: 11 dBm + 10 log 41.84					
Max output power DC corrected cond	--	27.22	-1.36	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-1.36	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-15.01	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-15.01	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

References

TC start	14.05.2024 16:45:36
Ambit temp [°C] humidity [rel%]	28.6 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	True Freq [MHz] 5590
Frequency high to test	False Freq [MHz] 5670
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5590 MHz

RESULT: Reference power cond.

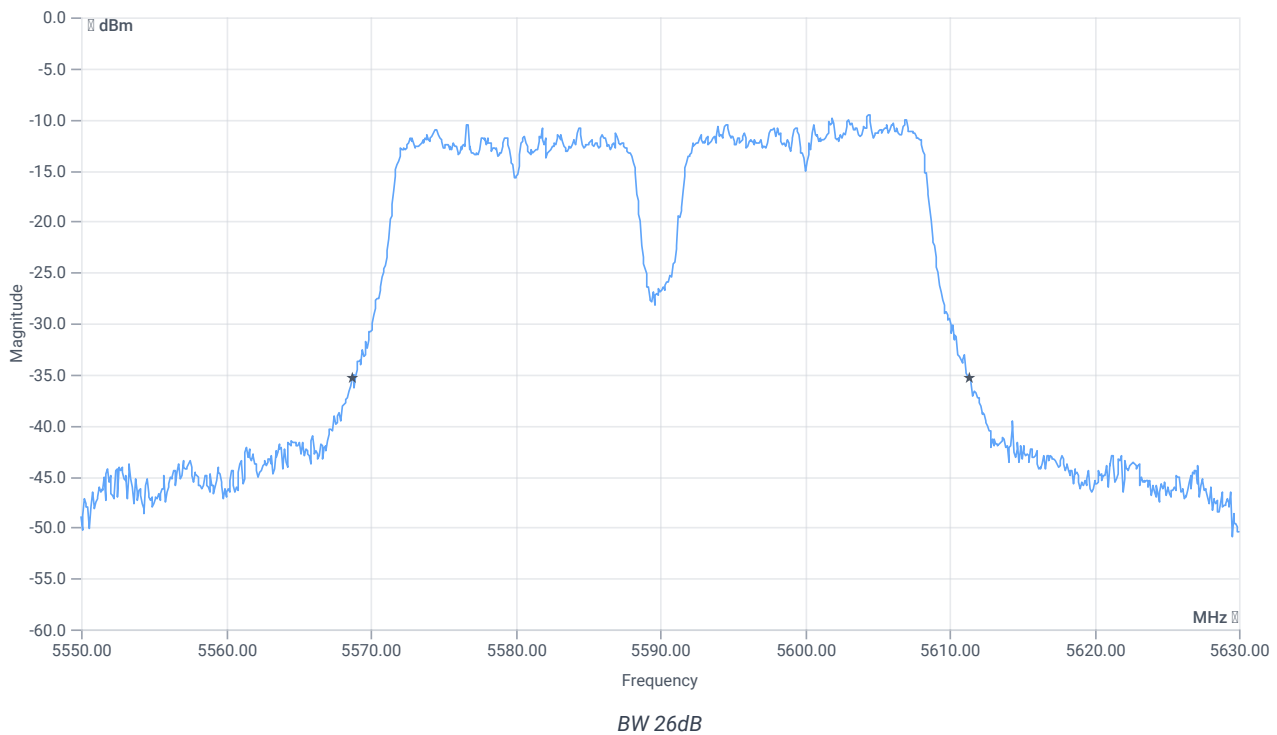
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-7.54	dBm	INFO
Ref. frequency	---	---	5604.990	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



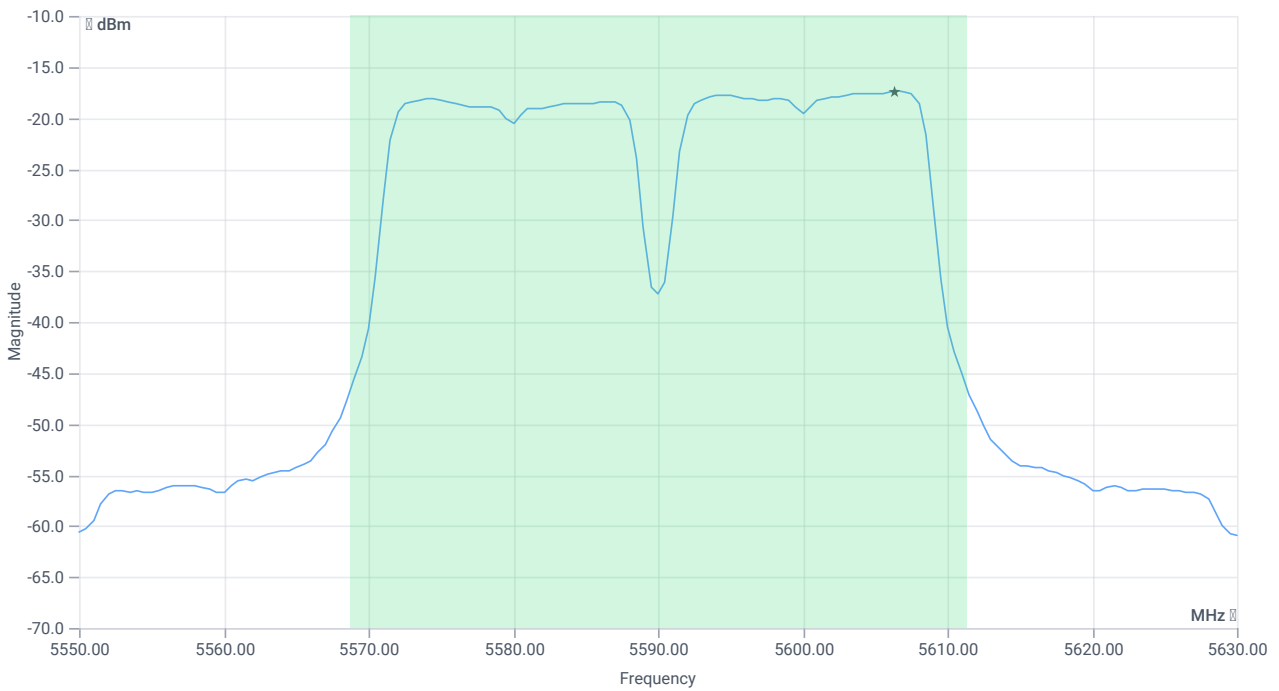
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.64	MHz	INFO
T1 26dB	---	---	5568.7200	MHz	INFO
T2 26dB	---	---	5611.3600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.46 13.51 5
Start [MHz] Stop [MHz]	5550.000 5630.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-3.42	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-3.42	dBm	PASS
LIMIT: 11 dBm + 10 log 42.64					
Max output power DC corrected cond	--	27.3	-3.42	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-3.42	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-17.38	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-17.38	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

References

TC start	14.05.2024 16:49:37
Ambit temp [°C] humidity [rel%]	28.5 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	True Freq [MHz] 5670
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5670 MHz

RESULT: Reference power cond.

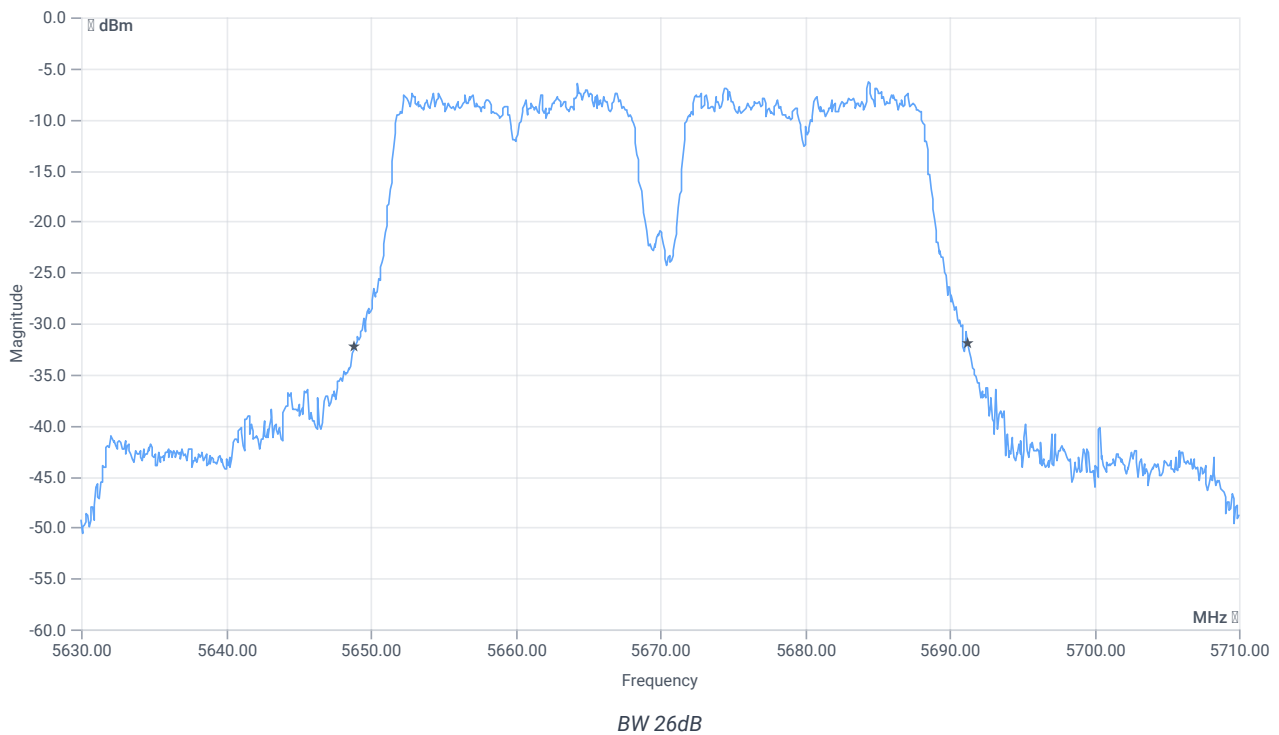
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-4.29	dBm	INFO
Ref. frequency	---	---	5656.010	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



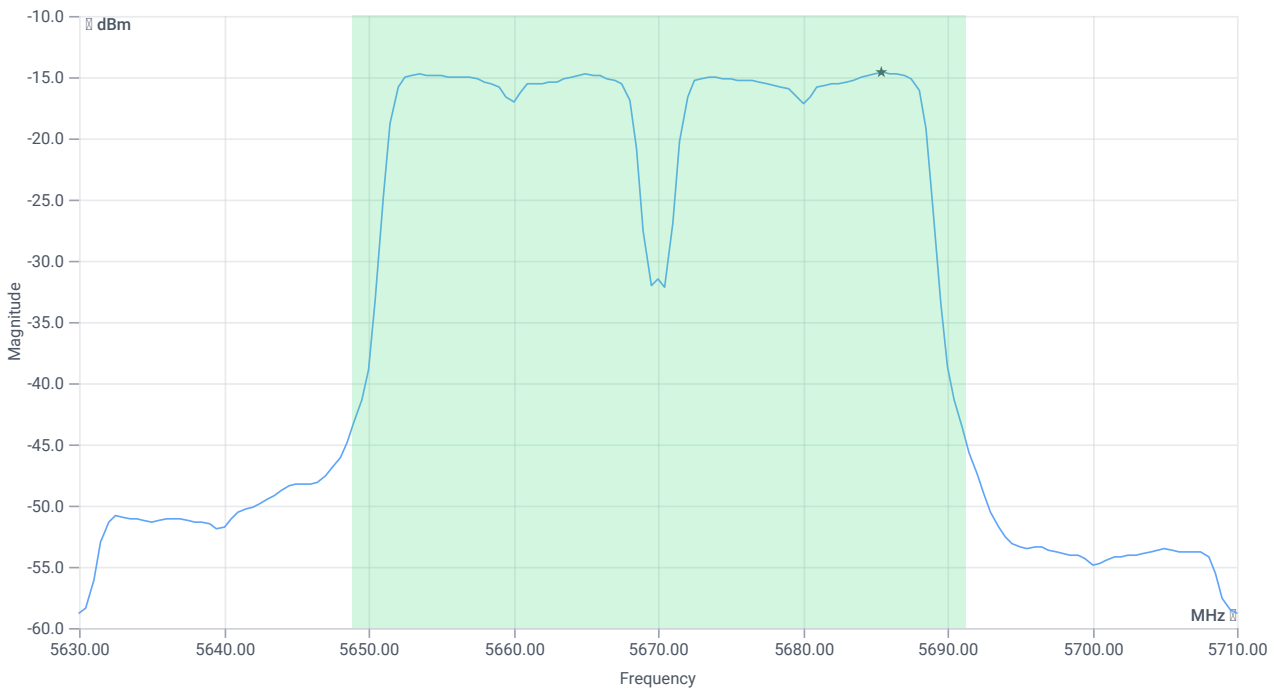
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	42.4	MHz	INFO
T1 26dB	---	---	5648.8800	MHz	INFO
T2 26dB	---	---	5691.2800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.71 13.51 10
Start [MHz] Stop [MHz]	5630.000 5710.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-0.35	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-0.35	dBm	PASS
LIMIT: 11 dBm + 10 log 42.4					
Max output power DC corrected cond	--	27.27	-0.35	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-0.35	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-14.66	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-14.66	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx n-HT40 mode U-NII-2C

References

TC start	14.05.2024 16:53:03
Ambit temp [°C] humidity [rel%]	28.6 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx n-HT40 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5510
Frequency mid to test	False Freq [MHz] 5590
Frequency high to test	True Freq [MHz] 5670
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5670 MHz

RESULT: Reference power cond.

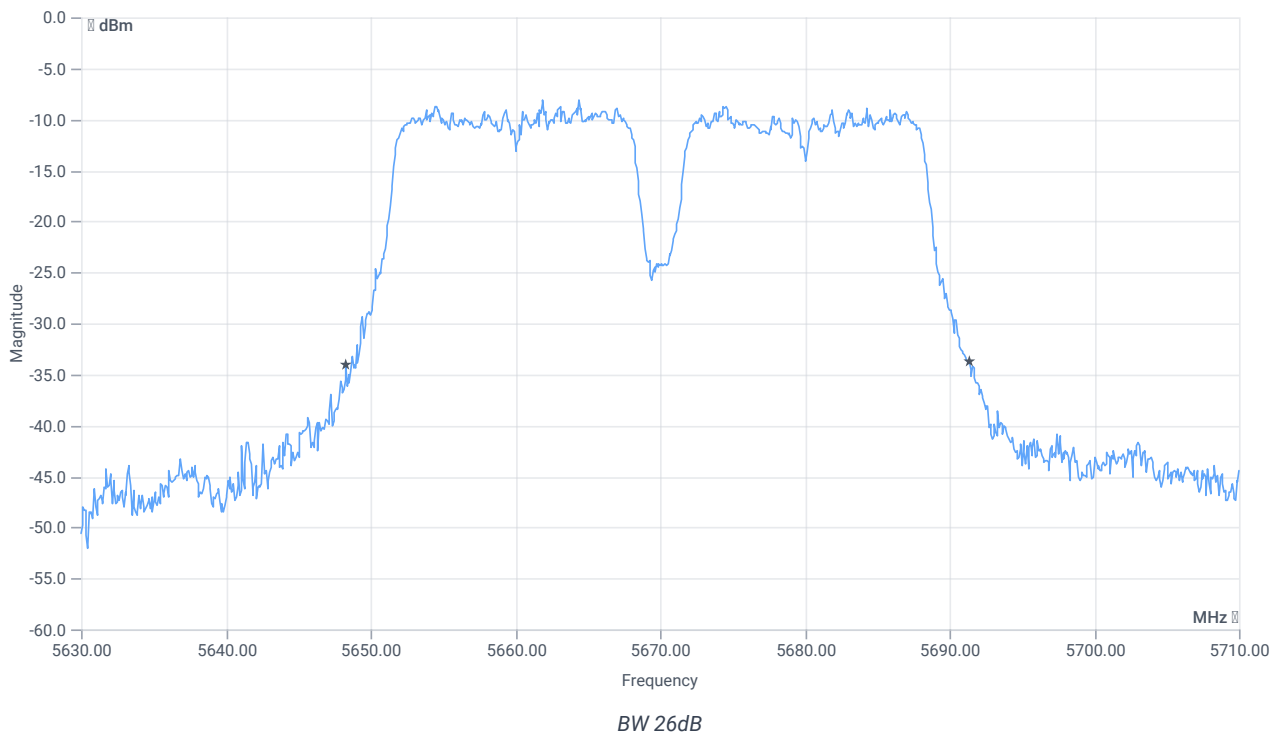
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-6.10	dBm	INFO
Ref. frequency	---	---	5672.800	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



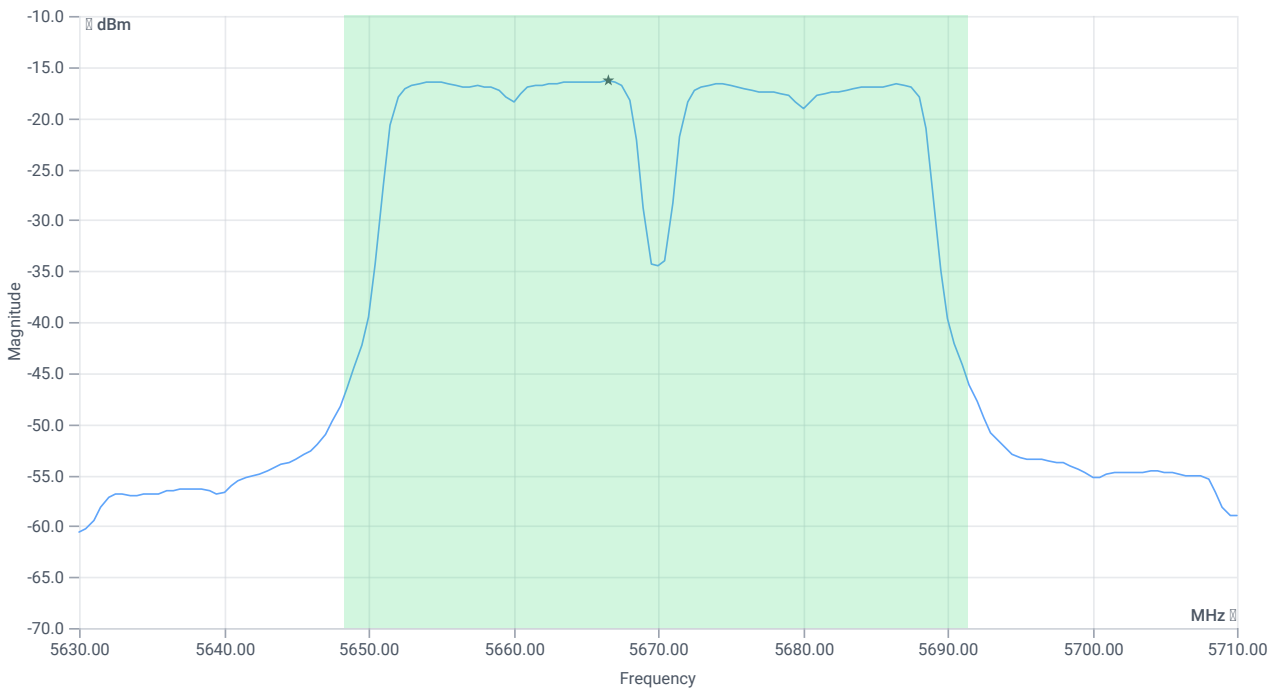
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	43.04	MHz	INFO
T1 26dB	---	---	5648.3200	MHz	INFO
T2 26dB	---	---	5691.3600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.90 13.38 10
Start [MHz] Stop [MHz]	5630.000 5710.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	53700 1 161 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-2.08	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-2.08	dBm	PASS
LIMIT: 11 dBm + 10 log 43.04					
Max output power DC corrected cond	--	27.34	-2.08	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-2.08	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-16.39	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-16.39	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2A

References

TC start	14.05.2024 17:01:36
Ambit temp [°C] humidity [rel%]	28.7 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5290
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5290 MHz

RESULT: Reference power cond.

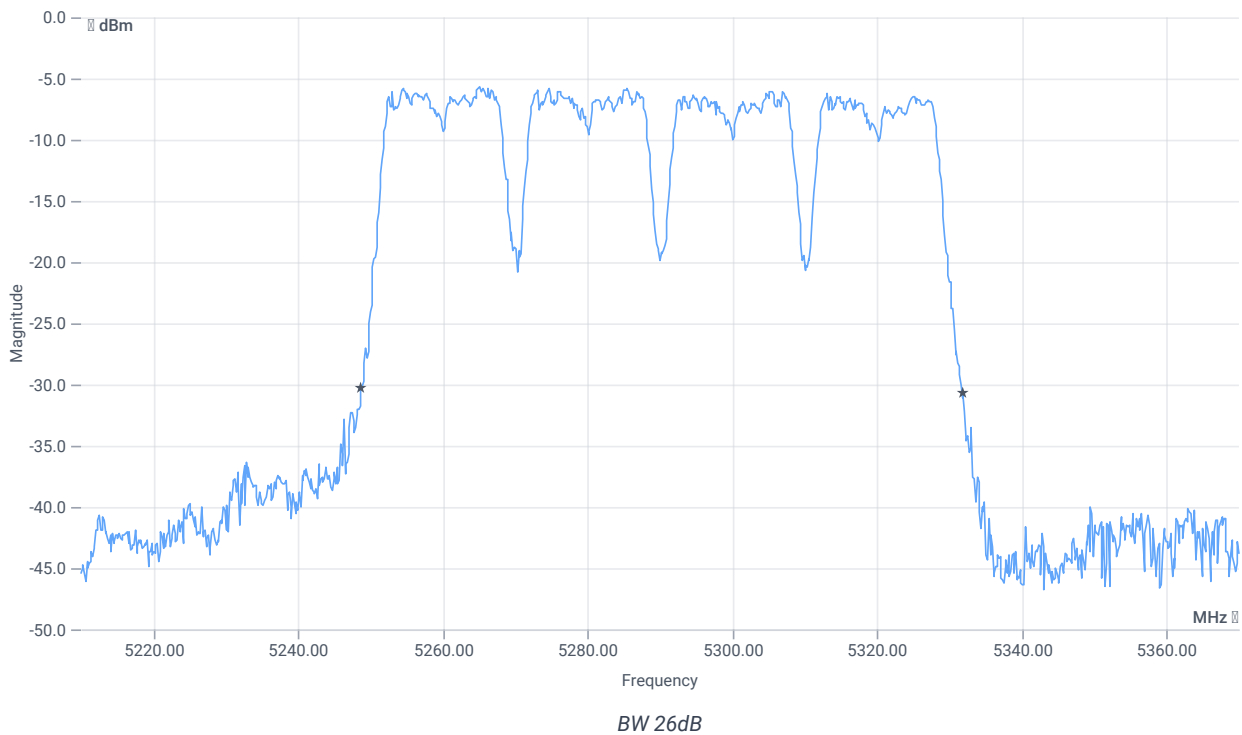
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-5.78	dBm	INFO
Ref. frequency	--	--	5276.010	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	--	--	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	--	--	83.2	MHz	INFO
T1 26dB	--	--	5248.7200	MHz	INFO
T2 26dB	--	--	5331.9200	MHz	INFO

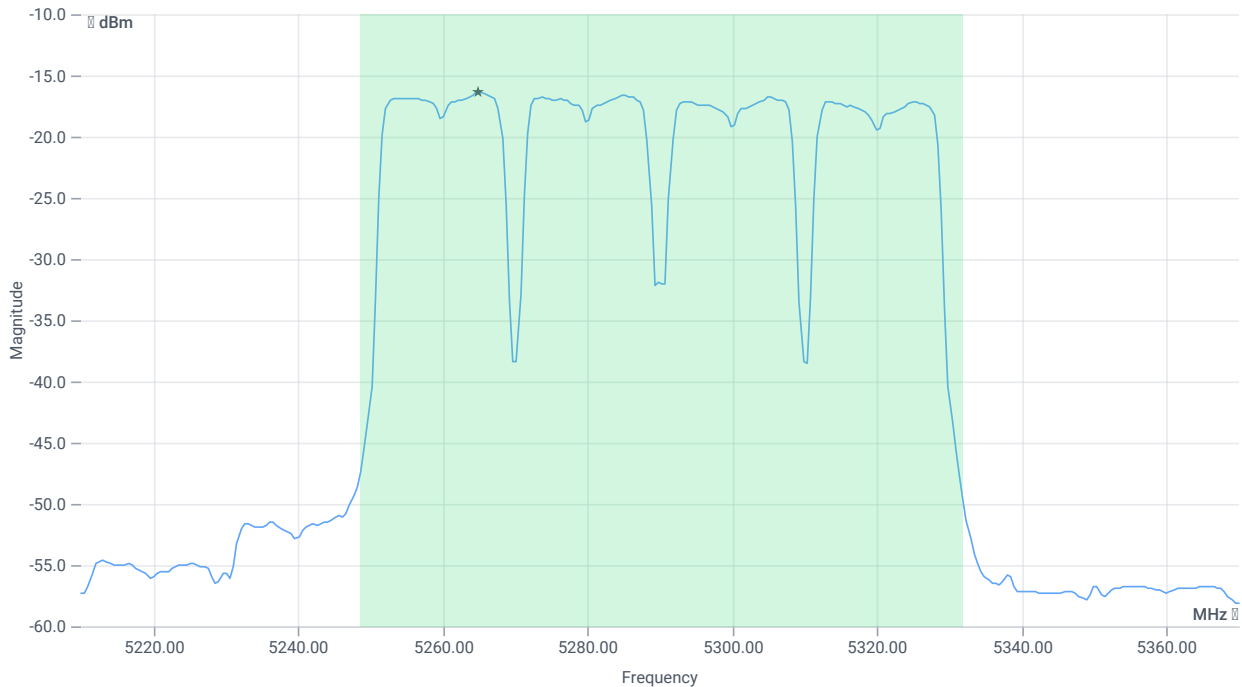
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5290 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	6.22 13.45 10
Start [MHz] Stop [MHz]	5210.000 5370.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	107000 1 320 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	0.63	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	0.63	dBm	PASS
LIMIT: 11 dBm + 10 log 83.2					
Max output power DC corrected cond	---	30.2	0.63	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	4.33	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-16.38	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-16.38	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2A

References

TC start	14.05.2024 17:07:18
Ambit temp [°C] humidity [rel%]	28.6 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2A
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70

Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5290
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5290 MHz

RESULT: Reference power cond.

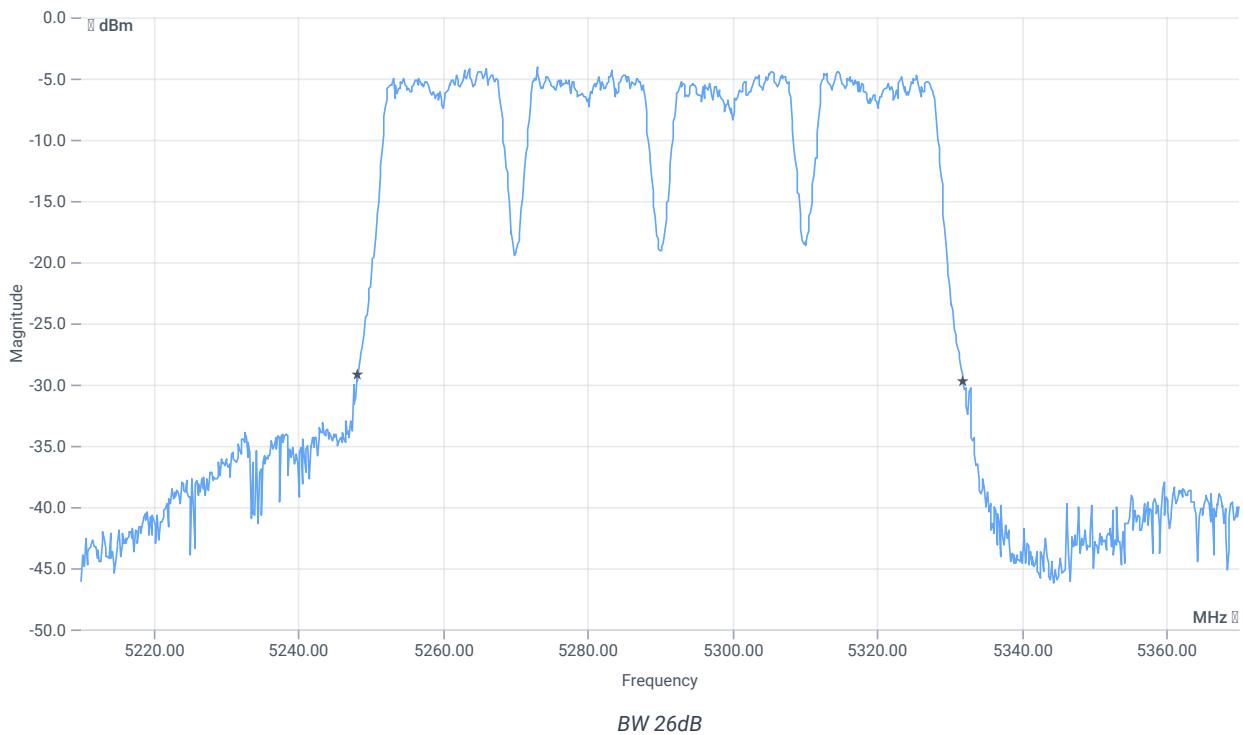
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-4.71	dBm	INFO
Ref. frequency	---	---	5304.990	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	83.84	MHz	INFO
T1 26dB	---	---	5248.0800	MHz	INFO
T2 26dB	---	---	5331.9200	MHz	INFO

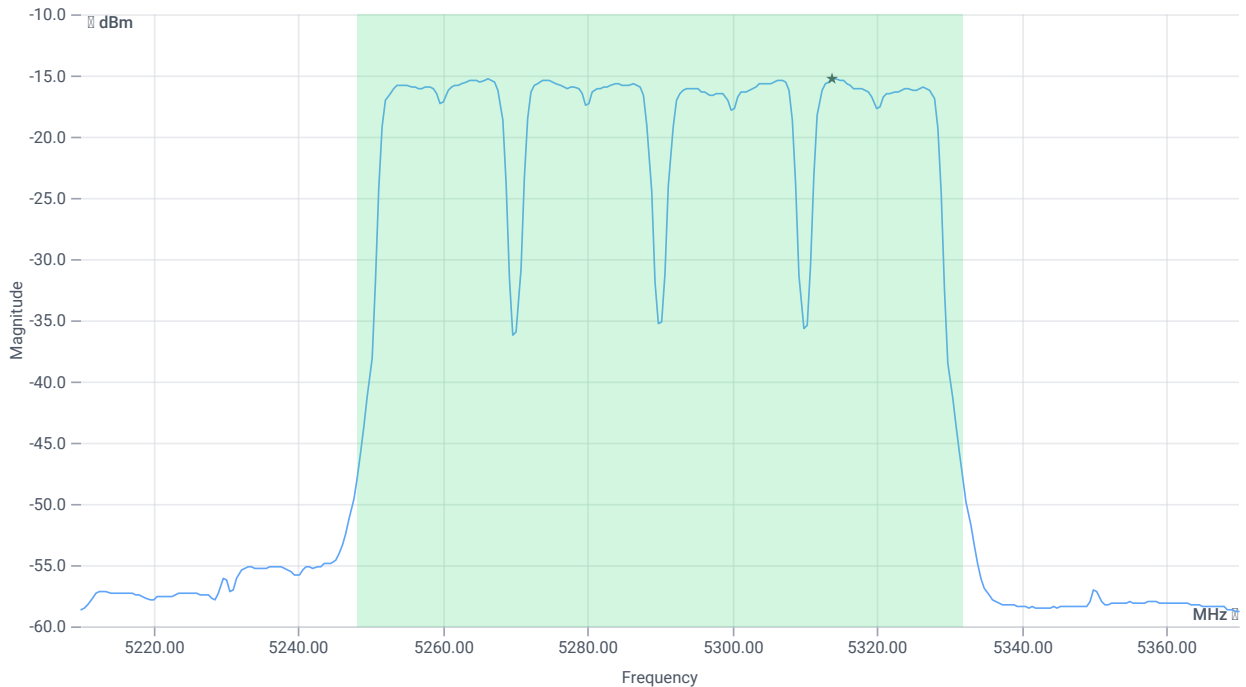
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]: 3.7 @ 5290 MHz

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.29 13.38 10
Start [MHz] Stop [MHz]	5210.000 5370.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	107000 1 320 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	---	---	1.92	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	1.92	dBm	PASS
LIMIT: 11 dBm + 10 log 83.84					
Max output power DC corrected cond	---	30.23	1.92	dBm	PASS

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

LIMIT absolute eirp (TPC not supported)

Max output power DC corrected eirp	--	27	5.62	dBm	PASS
------------------------------------	----	----	------	-----	------

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-15.28	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-15.28	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

References

TC start	14.05.2024 17:13:51
Ambit temp [°C] humidity [rel%]	28.6 39
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5530
Frequency mid to test	False Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5530 MHz

RESULT: Reference power cond.

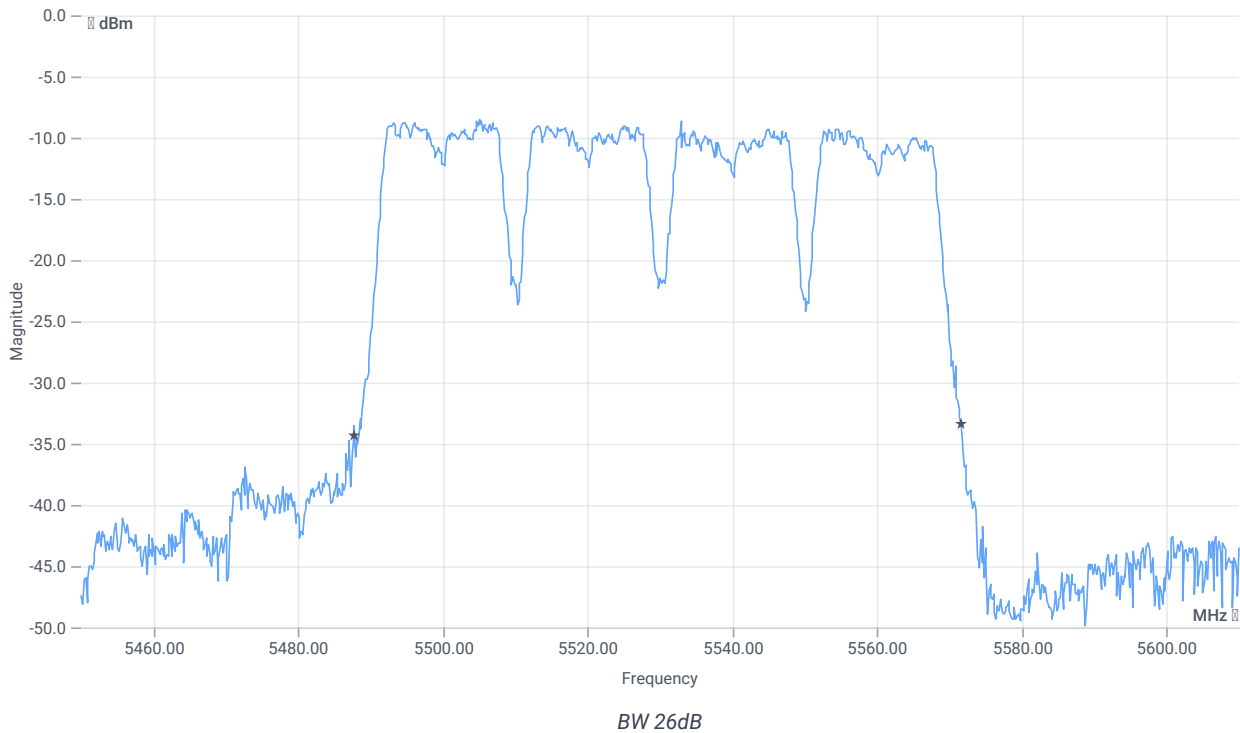
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-8.67	dBm	INFO
Ref. frequency	---	---	5513.220	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



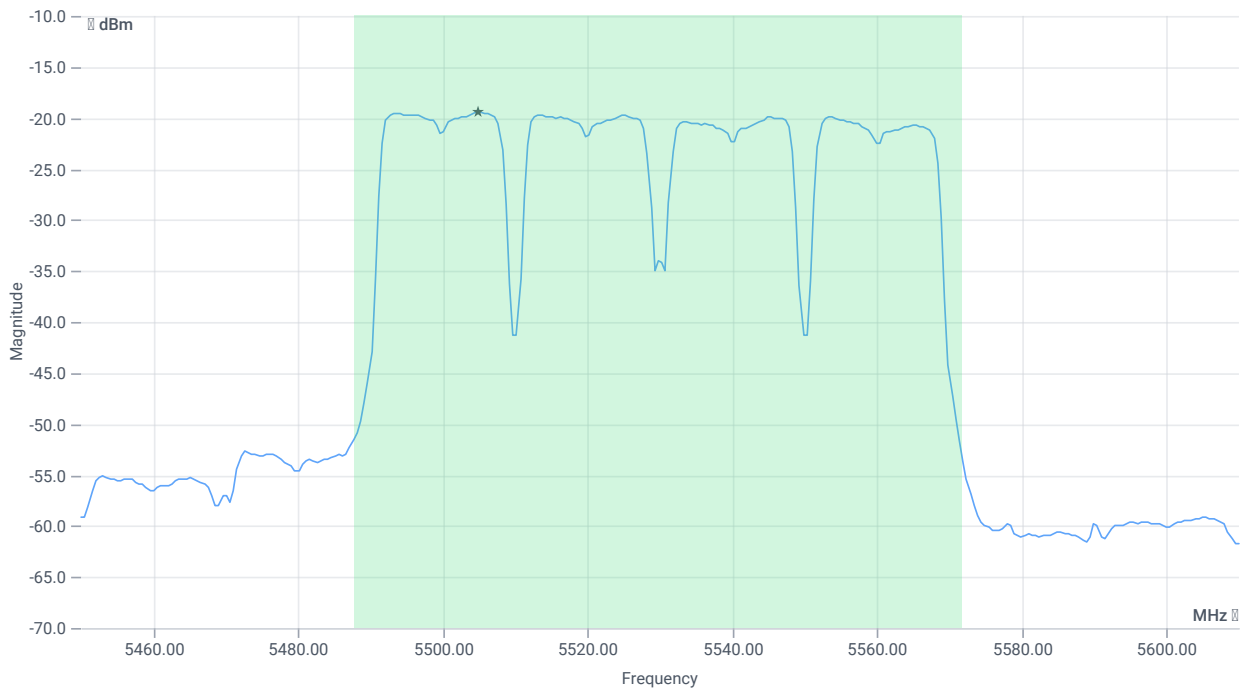
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	84	MHz	INFO
T1 26dB	---	---	5487.6000	MHz	INFO
T2 26dB	---	---	5571.6000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	3.33 13.68 5
Start [MHz] Stop [MHz]	5450.000 5610.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	107000 1 320 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-2.43	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-2.43	dBm	PASS
LIMIT: 11 dBm + 10 log 84					
Max output power DC corrected cond	--	30.24	-2.43	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-2.43	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-19.33	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-19.33	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

References

TC start	14.05.2024 17:19:25
Ambit temp [°C] humidity [rel%]	28.7 38
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5530
Frequency mid to test	False Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5530 MHz

RESULT: Reference power cond.

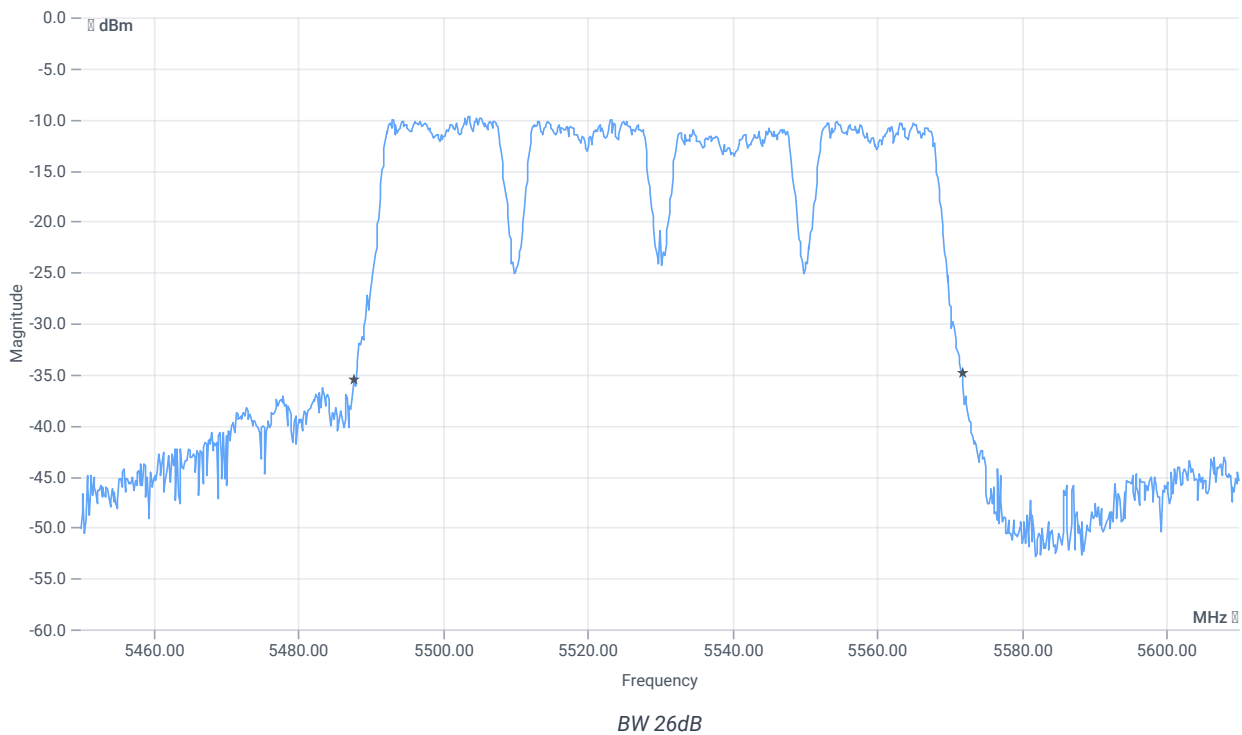
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-9.52	dBm	INFO
Ref. frequency	---	---	5506.020	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



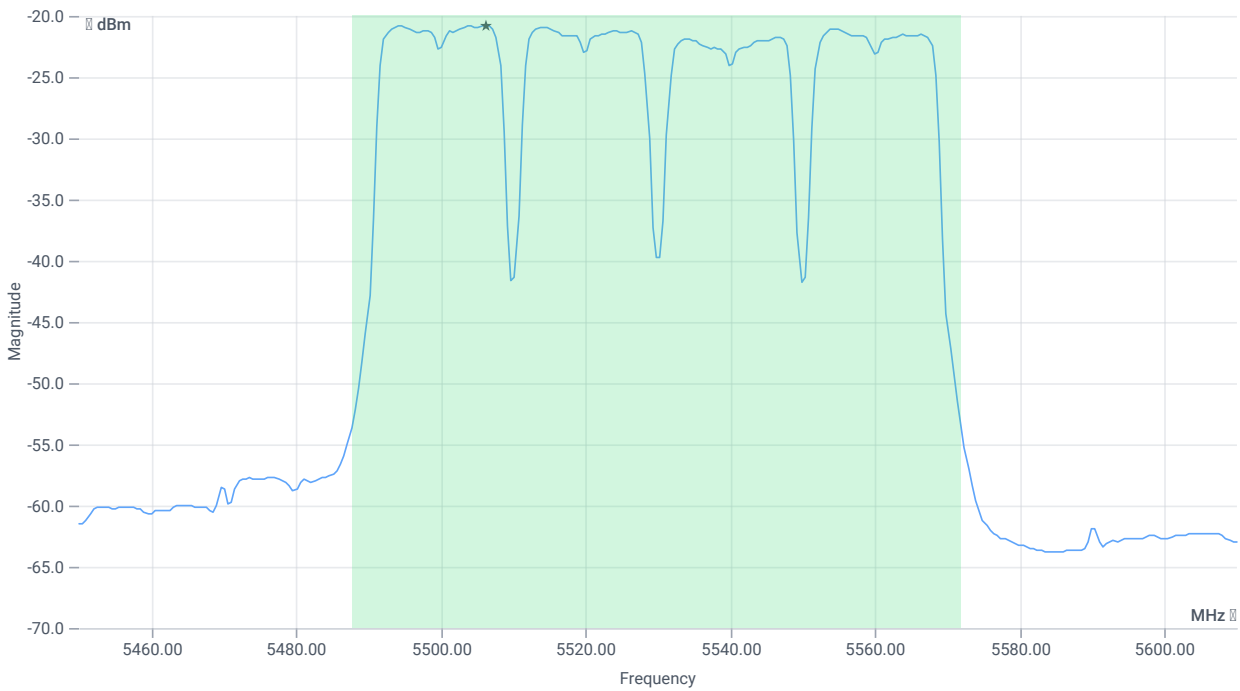
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	84	MHz	INFO
T1 26dB	---	---	5487.7600	MHz	INFO
T2 26dB	---	---	5571.7600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	2.48 13.58 5
Start [MHz] Stop [MHz]	5450.000 5610.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	107000 1 320 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-3.7	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-3.7	dBm	PASS
LIMIT: 11 dBm + 10 log 84					
Max output power DC corrected cond	--	30.24	-3.7	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-3.7	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-20.81	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-20.81	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

References

TC start	14.05.2024 17:25:37
Ambit temp [°C] humidity [rel%]	28.8 38
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5530
Frequency mid to test	True Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
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 5610 MHz

RESULT: Reference power cond.

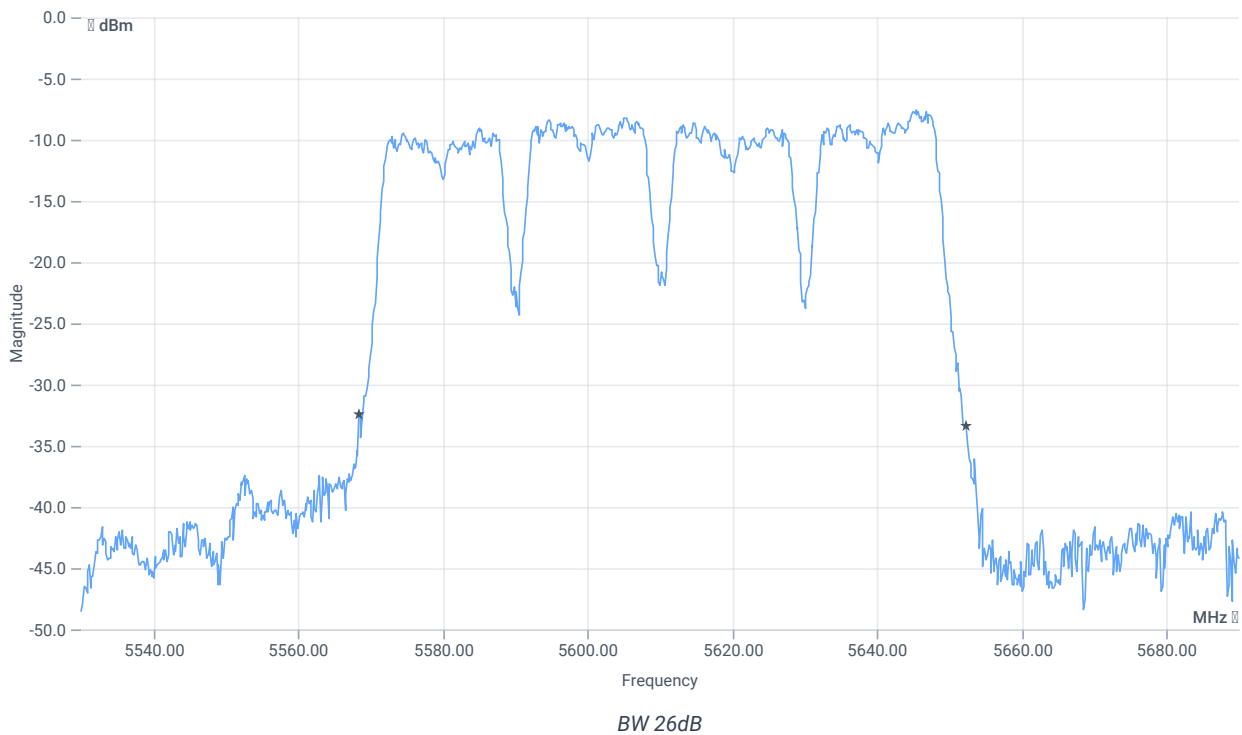
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-7.63	dBm	INFO
Ref. frequency	---	---	5645.160	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



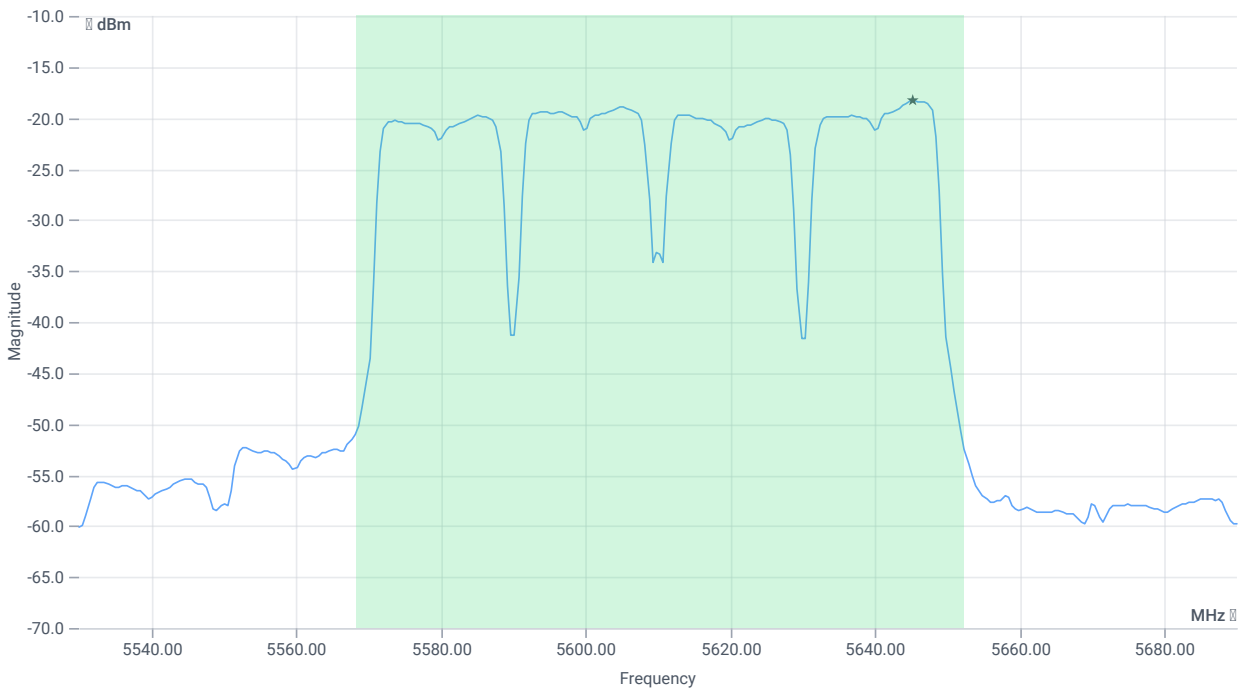
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	84	MHz	INFO
T1 26dB	---	---	5568.4000	MHz	INFO
T2 26dB	---	---	5652.4000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.37 13.74 5
Start [MHz] Stop [MHz]	5530.000 5690.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	107000 1 320 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-2.03	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-2.03	dBm	PASS
LIMIT: 11 dBm + 10 log 84					
Max output power DC corrected cond	--	30.24	-2.03	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-2.03	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-18.29	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-18.29	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT80 mode U-NII-2C

References

TC start	14.05.2024 17:31:09
Ambit temp [°C] humidity [rel%]	28.8 38
System version	5.0.5.0
Standard Version	FCC 15.407 NI
Method	KDB789033 D02, F, E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT80 mode U-NII-2C
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	Yes

Equipment

Signal analyzer,Rohde&Schwarz,FSV-40,1307.9002K40/101042,3.70
Switch matrix,cetecom advanced GmbH,USM,B002,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5530
Frequency mid to test	True Freq [MHz] 5610
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.7
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.MP.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

Test at TX 5610 MHz

RESULT: Reference power cond.

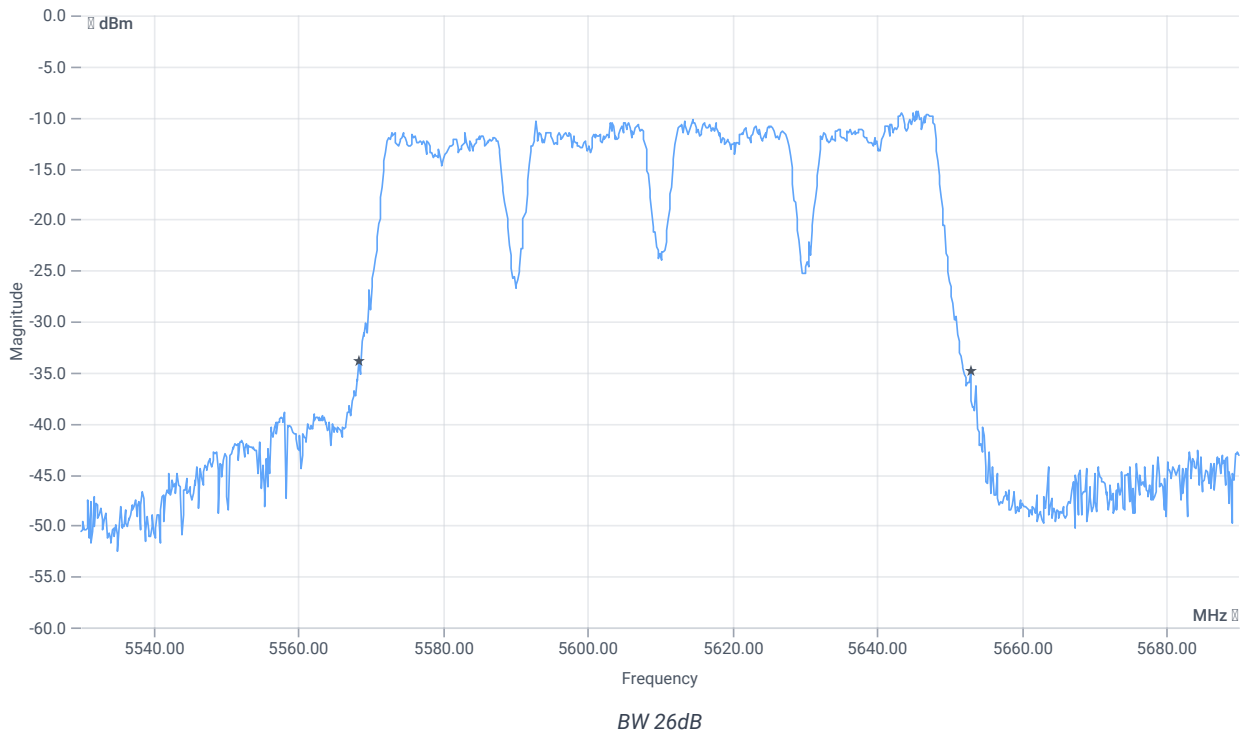
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-9.64	dBm	INFO
Ref. frequency	---	---	5645.360	MHz	INFO

Evaluation max. duty cycle

Duty Cycle evaluation

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Duty Cycle min	---	---	0	dB	DC > 98% defined

Evaluation bandwidth



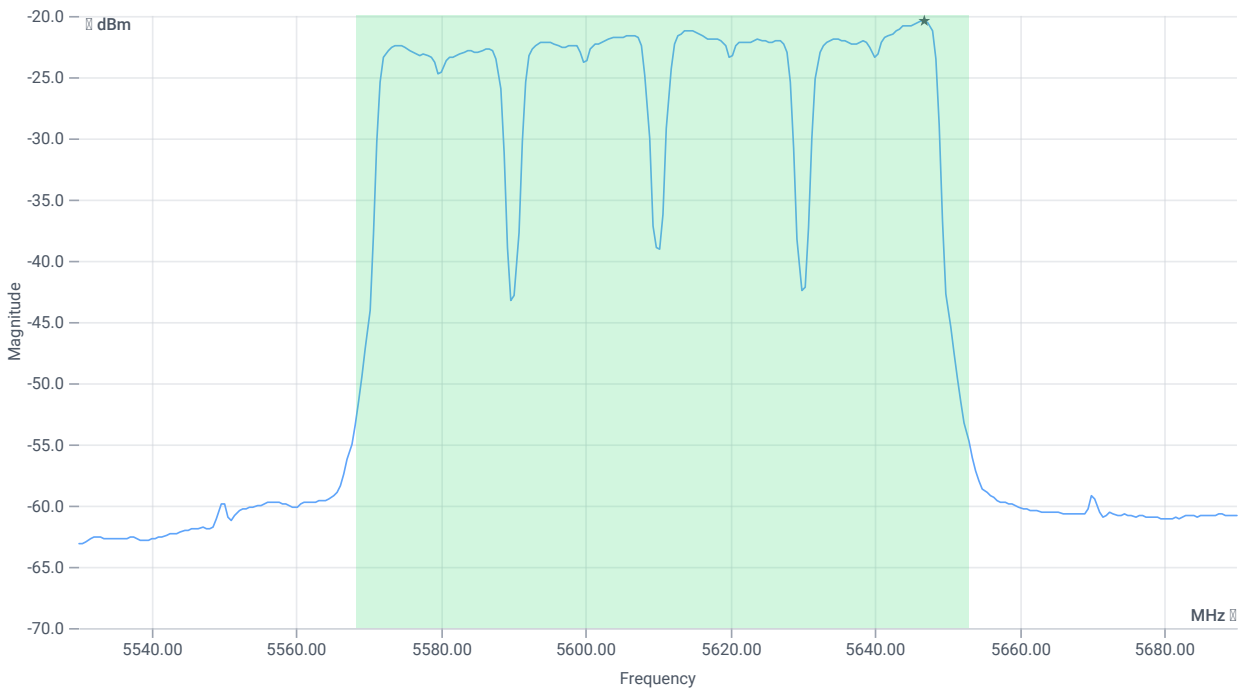
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	84.48	MHz	INFO
T1 26dB	---	---	5568.4000	MHz	INFO
T2 26dB	---	---	5652.8800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	2.36 13.48 5
Start [MHz] Stop [MHz]	5530.000 5690.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS MAXH
Sweep: time [ms] count points per Section type	107000 1 320 SWE



Max OP and PSD

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Max output power cond	--	--	-4.23	dBm	INFO
Duty cycle correction	--	--	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	--	24	-4.23	dBm	PASS
LIMIT: 11 dBm + 10 log 84.48					
Max output power DC corrected cond	--	30.27	-4.23	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	--	27	-4.23	dBm	PASS

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	--	--	-20.41	dBm/1MHz	INFO
Duty cycle correction	--	--	0	dB	INFO
Power spectral density DC corrected cond	--	11	-20.41	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT80 mode U-NII-3

References

TC start	26.01.2024 19:01:19
Ambit temp [°C] humidity [rel%]	26.8 35
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT80 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

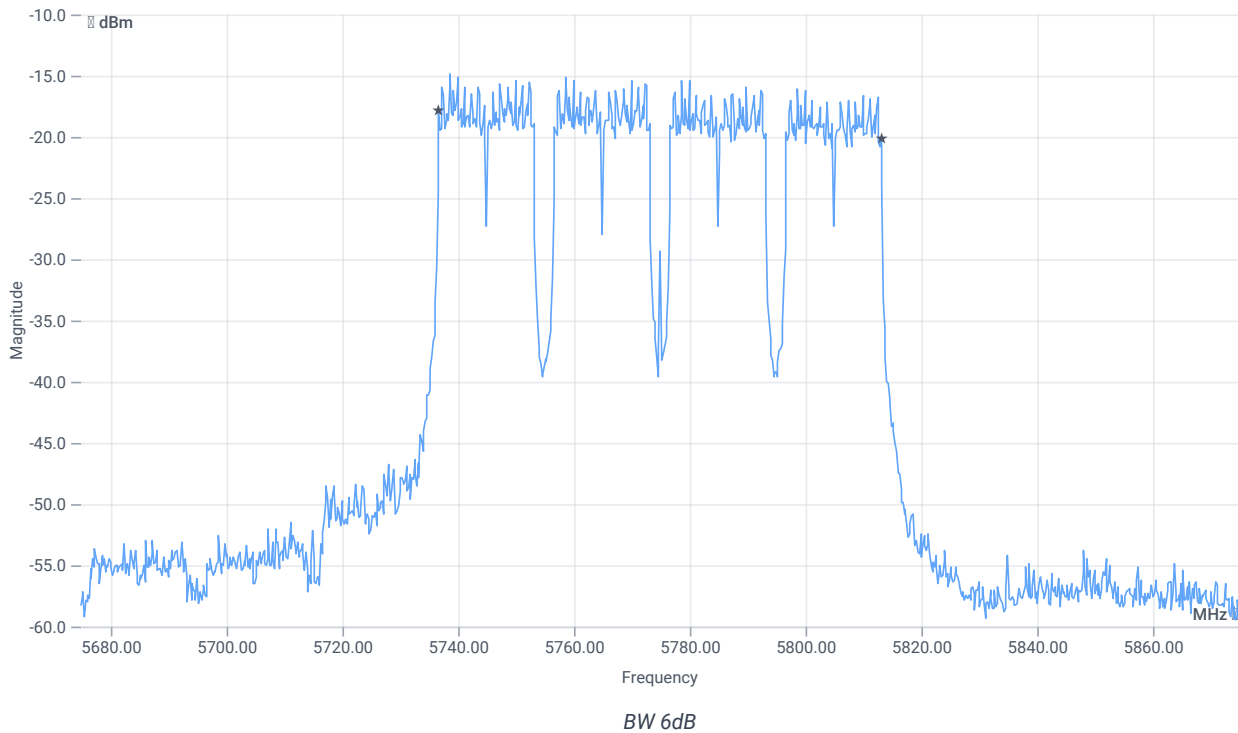
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-7.63	dBm	INFO
Ref. frequency	--	--	5750.420	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	4.37 10.41 10
Start [MHz] Stop [MHz]	5675.000 5875.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	76.4	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT80 mode U-NII-3

References

TC start	26.01.2024 18:50:17
Ambit temp [°C] humidity [rel%]	26.7 35
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT80 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx ac-VHT80 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 0
Frequency mid to test	True Freq [MHz] 5775
Frequency high to test	False Freq [MHz] 0
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

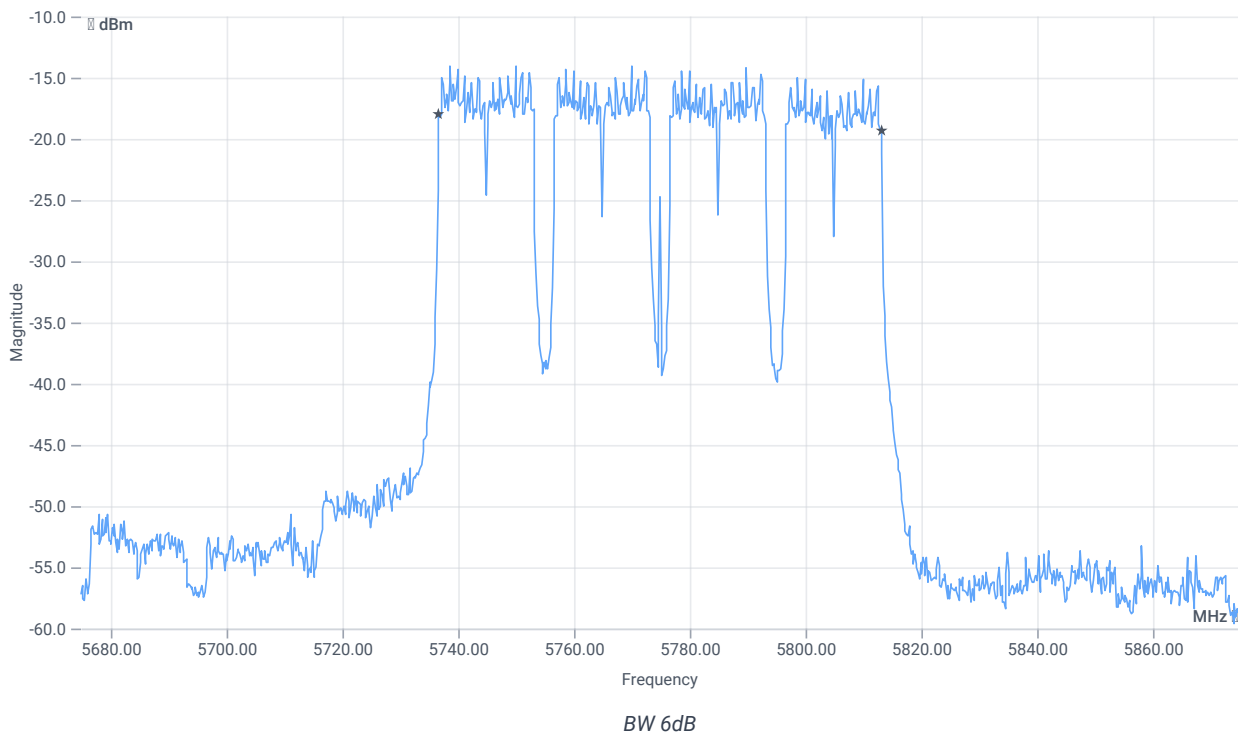
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-6.62	dBm	INFO
Ref. frequency	--	--	5782.790	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	5.38 10.38 10
Start [MHz] Stop [MHz]	5675.000 5875.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	76.4	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	26.01.2024 18:21:13
Ambit temp [°C] humidity [rel%]	26.8 32
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT40 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5795
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

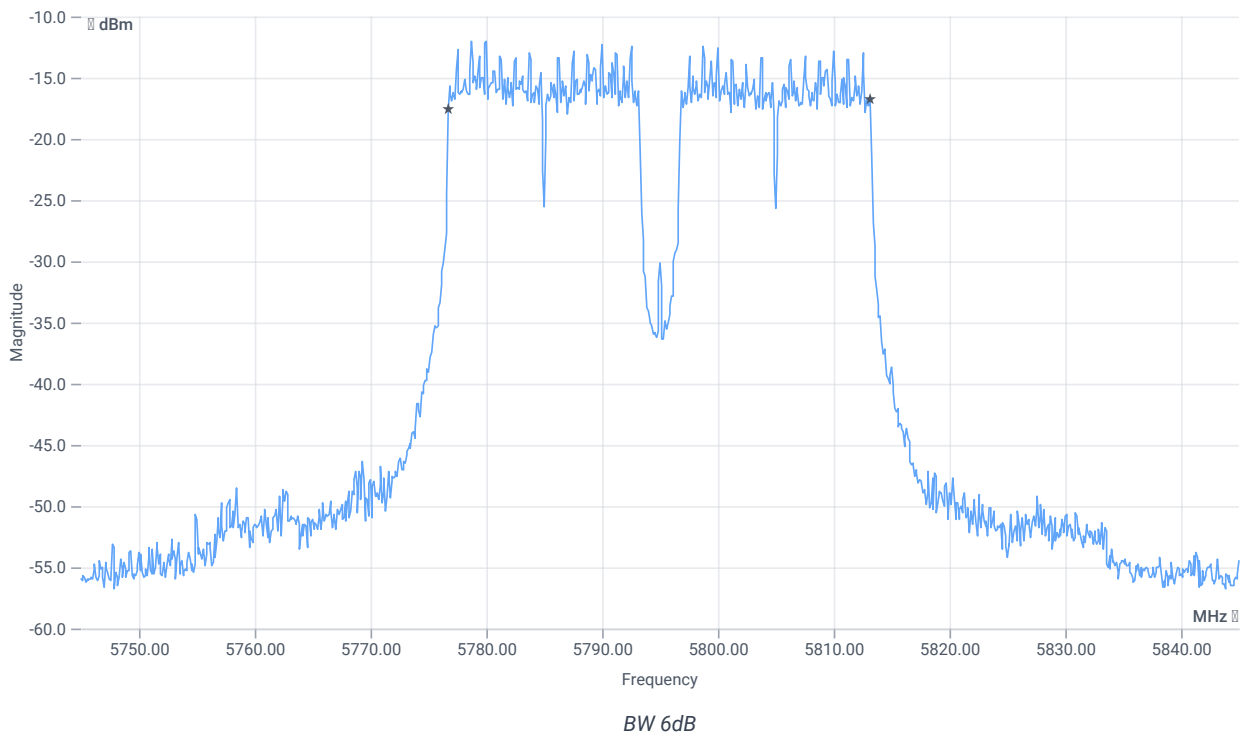
Test at TX 5795 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-3.98	dBm	INFO
Ref. frequency	--	--	5809.790	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.02 10.41 15
Start [MHz] Stop [MHz]	5745.000 5845.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	36.5	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	26.01.2024 18:14:14
Ambit temp [°C] humidity [rel%]	26.7 33
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT40 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	True Freq [MHz] 5795
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

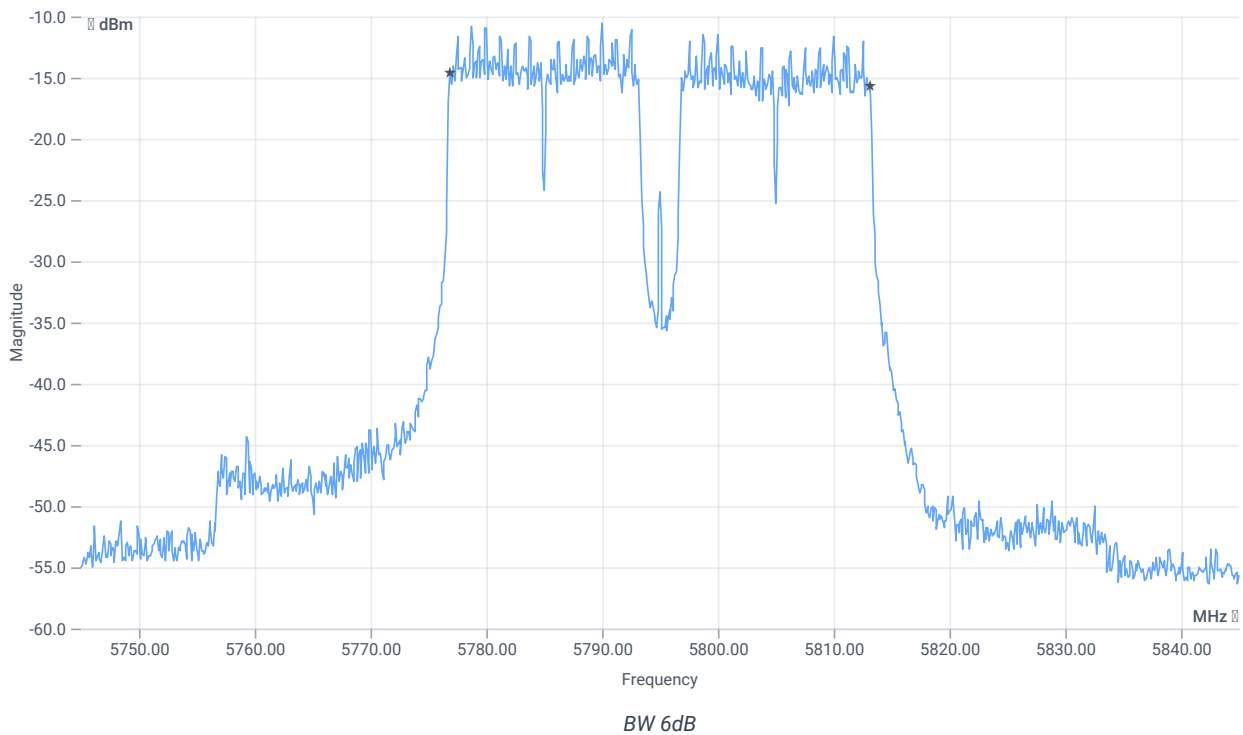
Test at TX 5795 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-3.04	dBm	INFO
Ref. frequency	--	--	5781.210	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.96 10.37 15
Start [MHz] Stop [MHz]	5745.000 5845.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	36.4	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	26.01.2024 18:02:44
Ambit temp [°C] humidity [rel%]	26.8 33
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT40 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5795
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

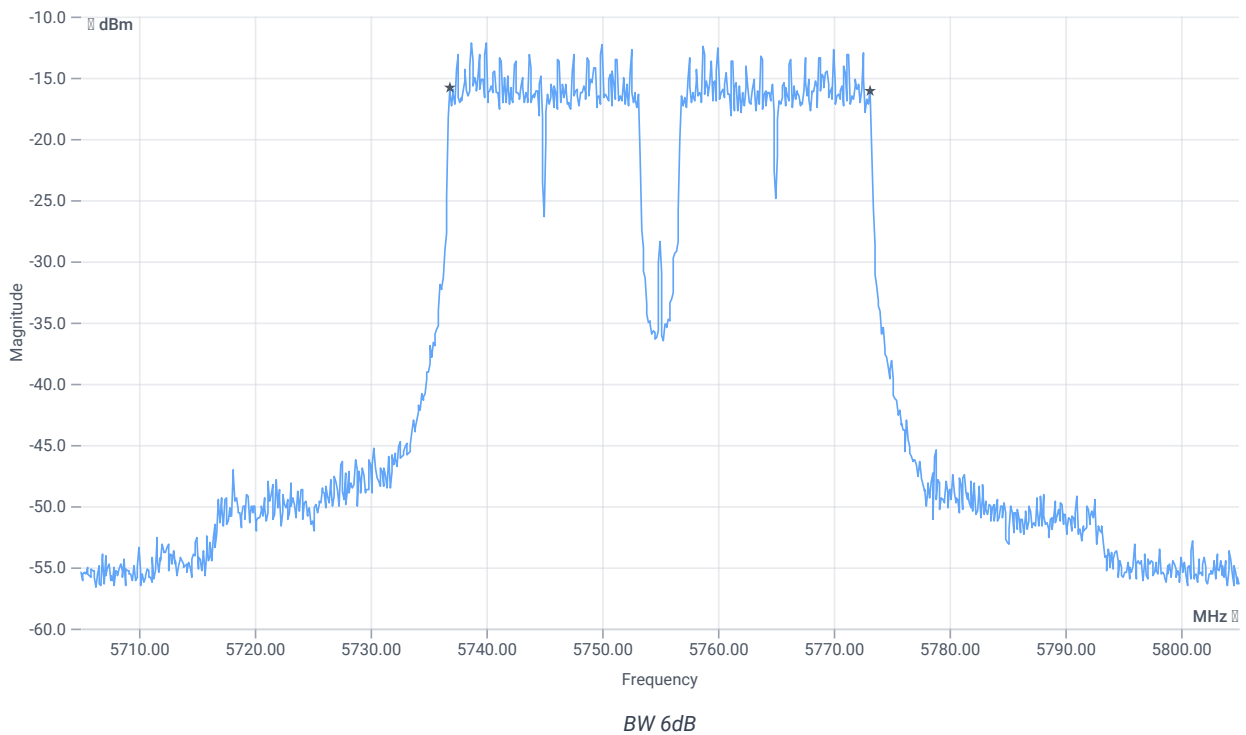
Test at TX 5755 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-3.77	dBm	INFO
Ref. frequency	--	--	5739.420	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	8.23 10.41 15
Start [MHz] Stop [MHz]	5705.000 5805.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	36.4	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	26.01.2024 17:55:45
Ambit temp [°C] humidity [rel%]	26.8 35
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT40 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT40 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5755
Frequency mid to test	False Freq [MHz] 0
Frequency high to test	False Freq [MHz] 5795
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

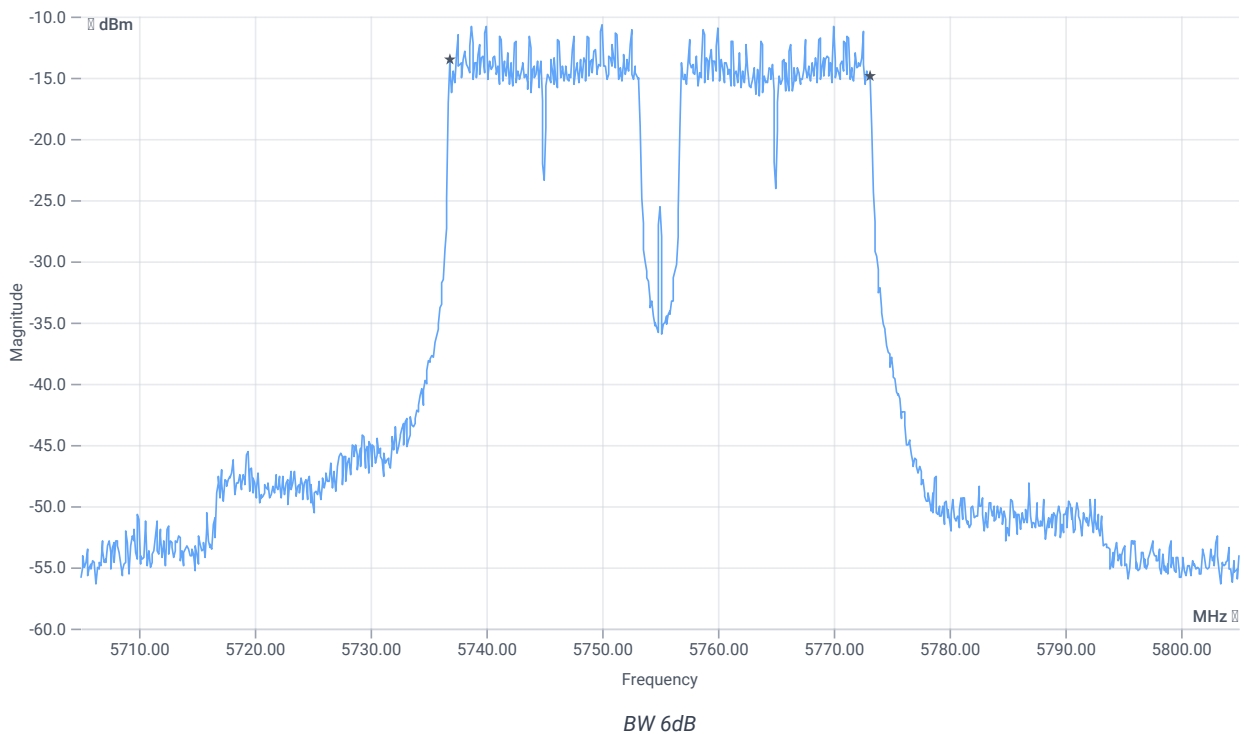
Test at TX 5755 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-2.10	dBm	INFO
Ref. frequency	--	--	5738.020	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	9.90 10.39 15
Start [MHz] Stop [MHz]	5705.000 5805.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	36.4	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:24:10
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

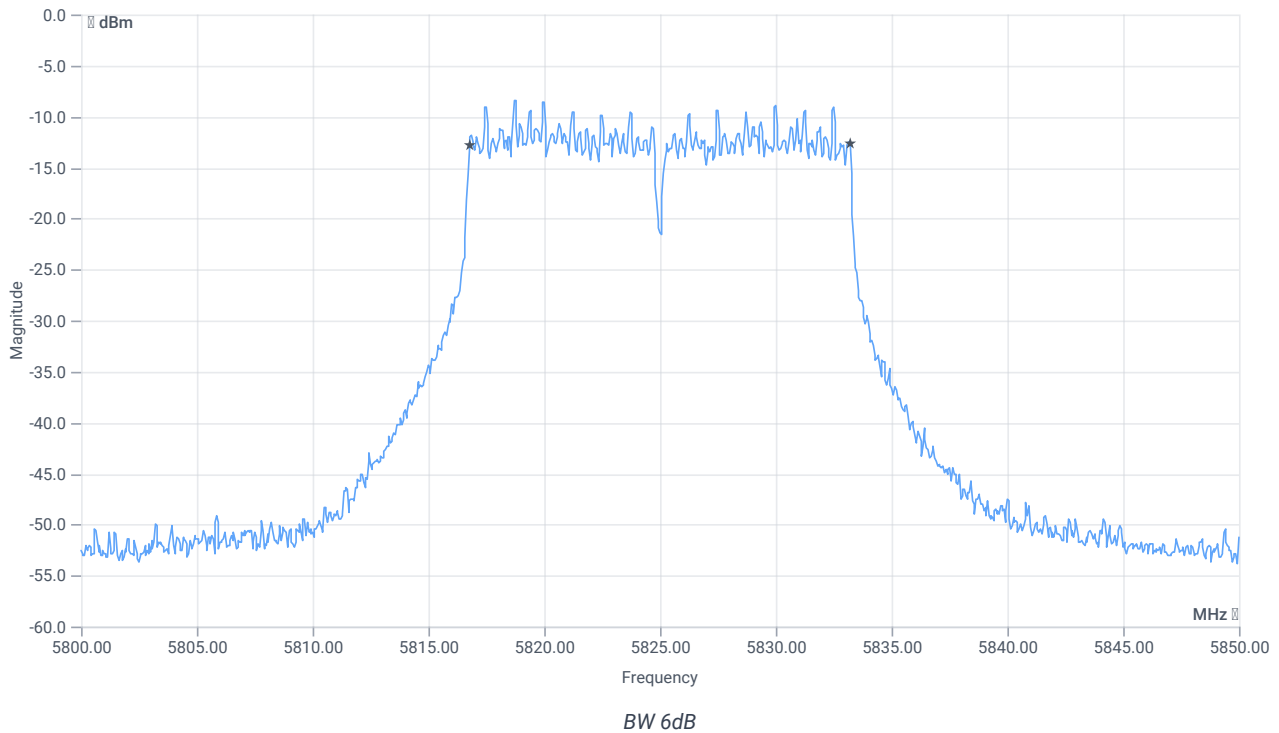
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.77	dBm	INFO
Ref. frequency	--	--	5819.410	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.23 10.44 20
Start [MHz] Stop [MHz]	5800.000 5850.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.45	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:16:52
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

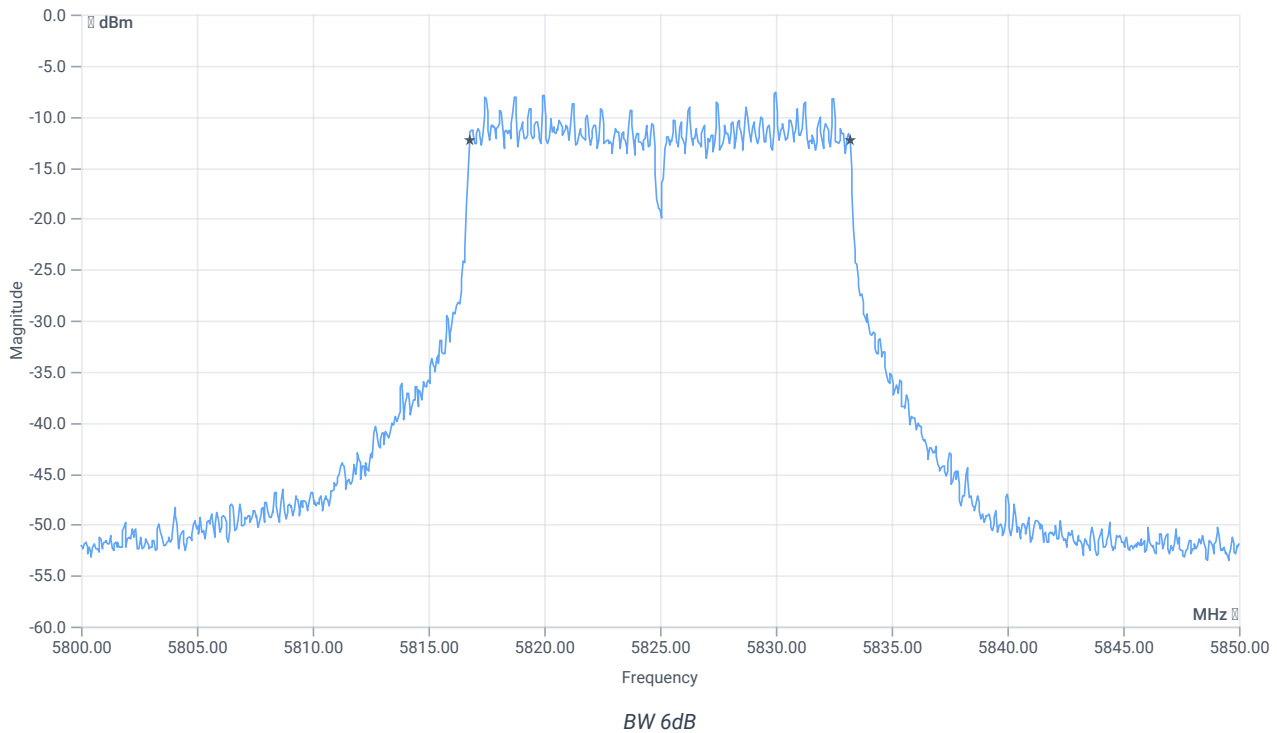
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.08	dBm	INFO
Ref. frequency	--	--	5821.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.92 10.45 20
Start [MHz] Stop [MHz]	5800.000 5850.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.45	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:07:33
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

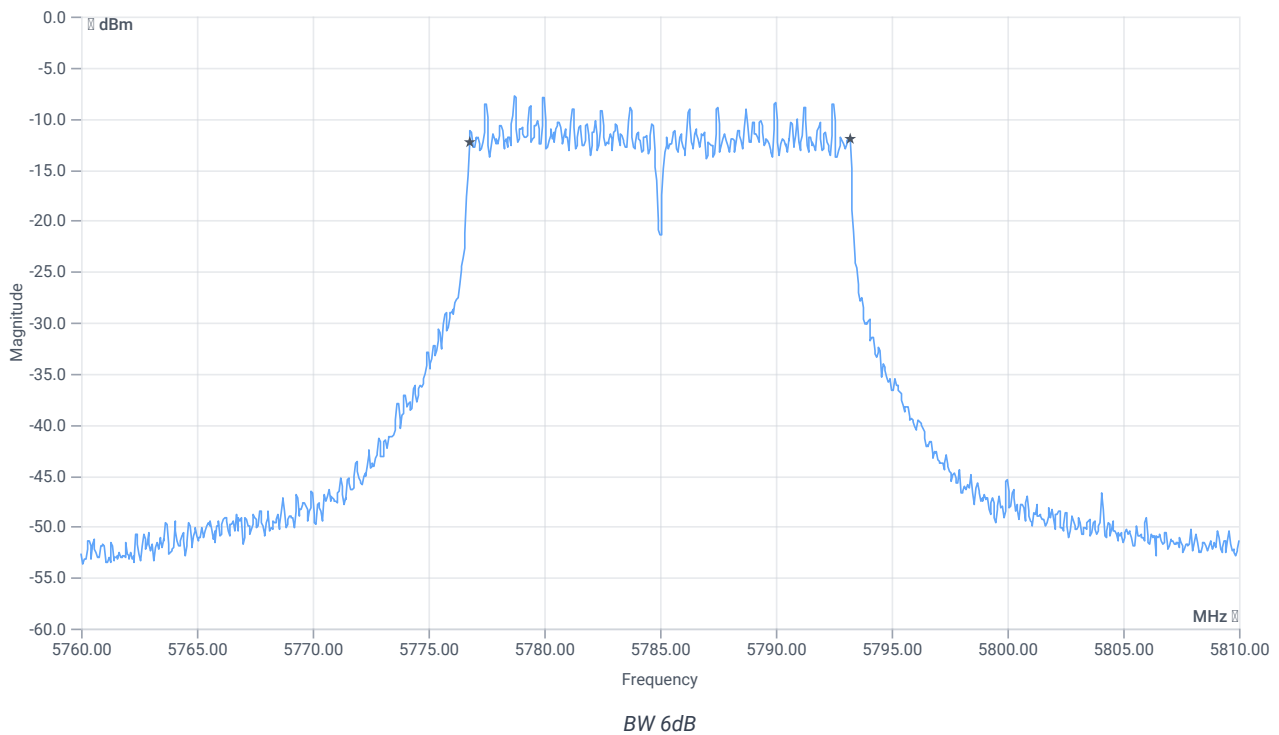
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	-0.25	dBm	INFO
Ref. frequency	--	--	5779.610	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.75 10.41 20
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.45	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 17:00:10
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

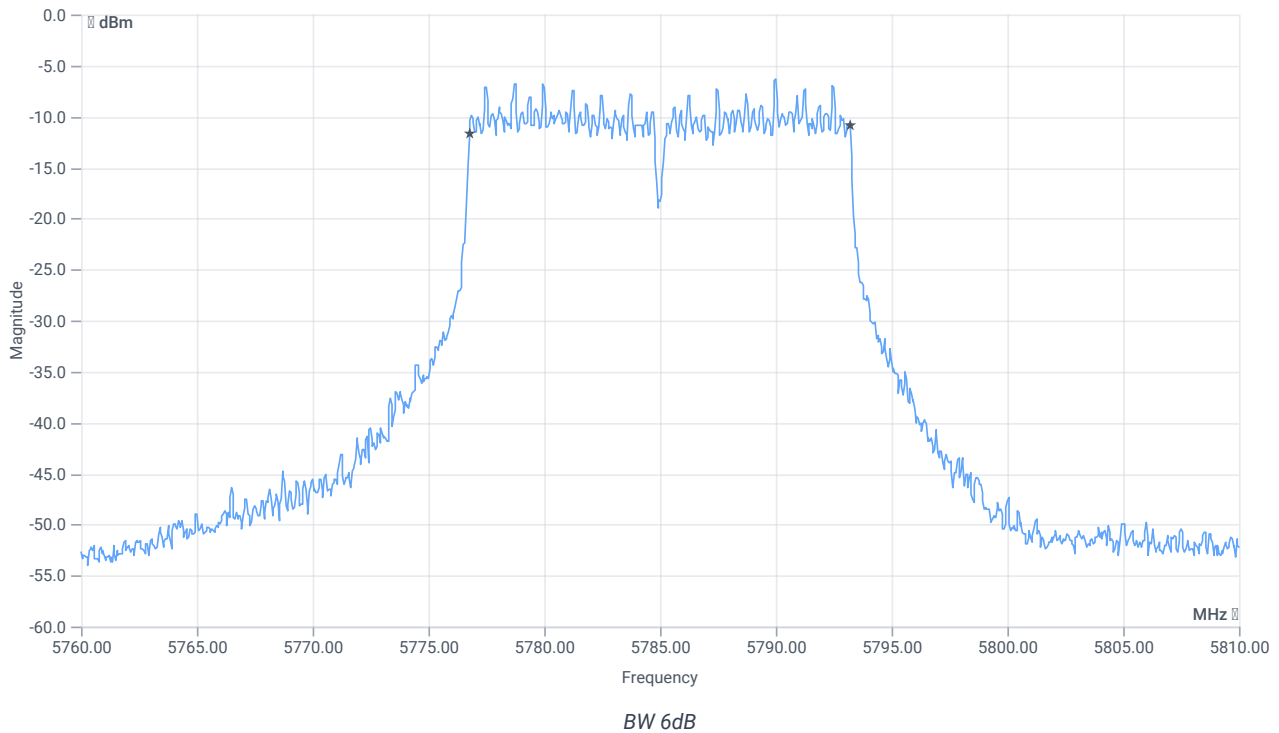
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.53	dBm	INFO
Ref. frequency	--	--	5779.210	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.53 10.38 20
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.45	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 16:51:26
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

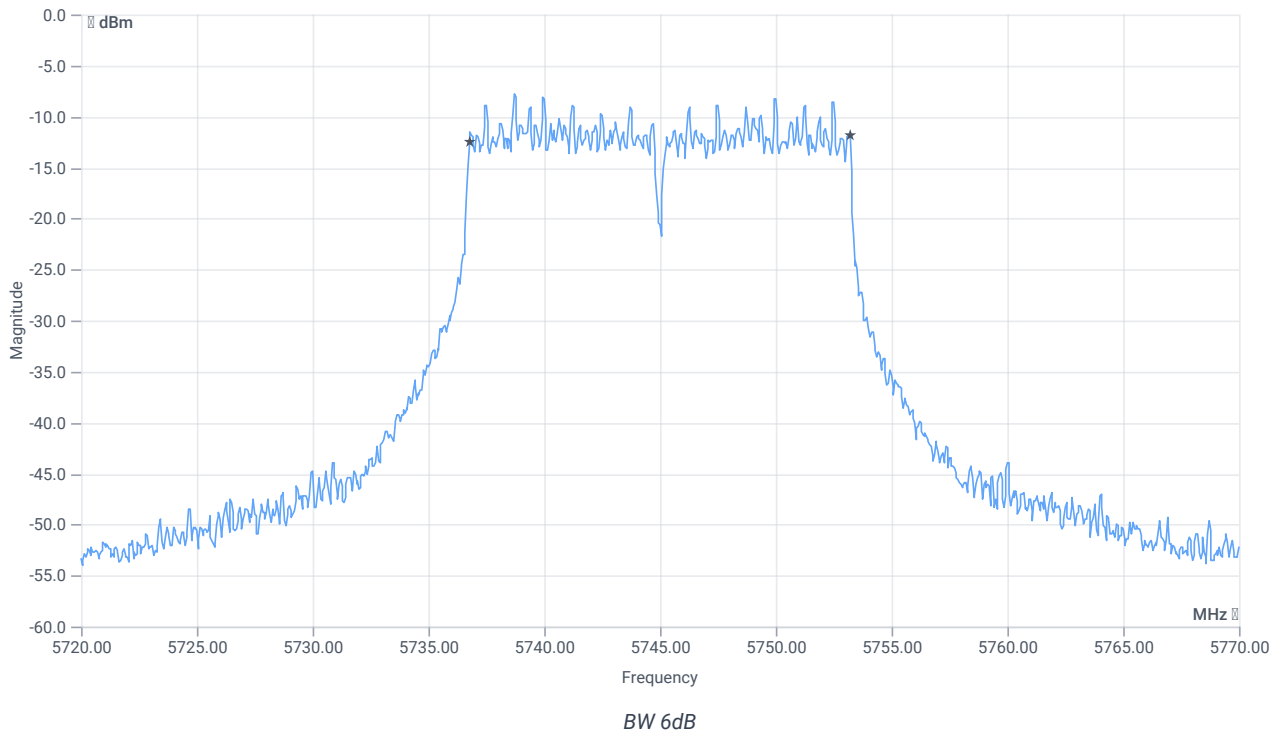
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.30	dBm	INFO
Ref. frequency	--	--	5748.200	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.30 10.38 20
Start [MHz] Stop [MHz]	5720.000 5770.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.45	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx n-HT20 mode U-NII-3

References

TC start	26.01.2024 16:44:08
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx n-HT20 mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNIL_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx n-HT20 mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

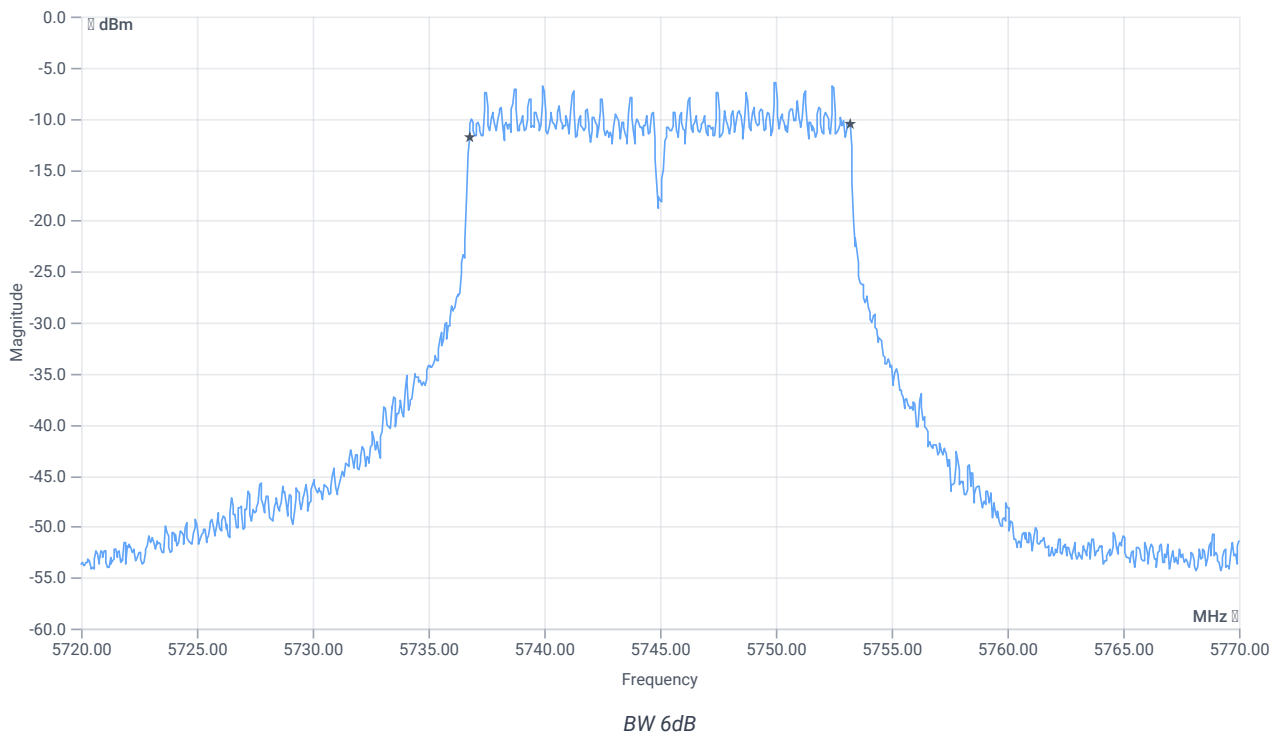
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.99	dBm	INFO
Ref. frequency	--	--	5739.210	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.99 10.36 20
Start [MHz] Stop [MHz]	5720.000 5770.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	16.45	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:50:23
Ambit temp [°C] humidity [rel%]	26.8 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

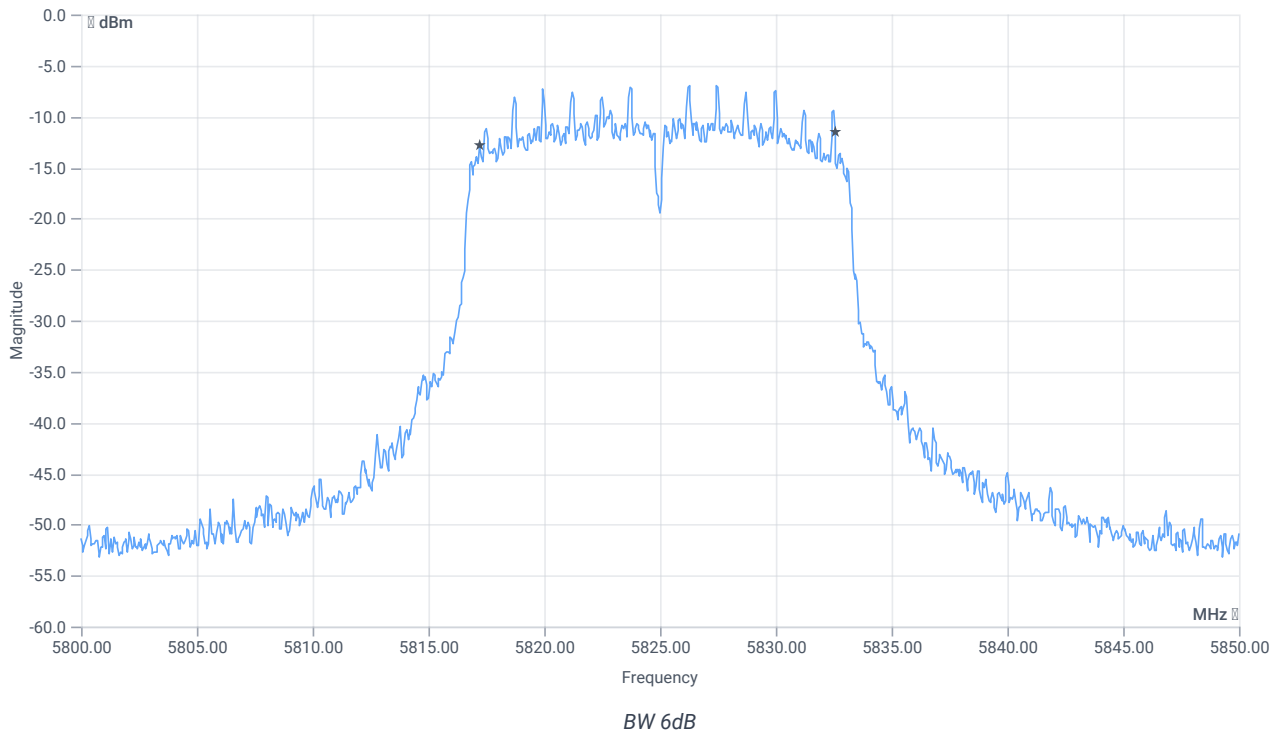
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.33	dBm	INFO
Ref. frequency	--	--	5822.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.33 10.44 20
Start [MHz] Stop [MHz]	5800.000 5850.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	15.35	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:43:07
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	True Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

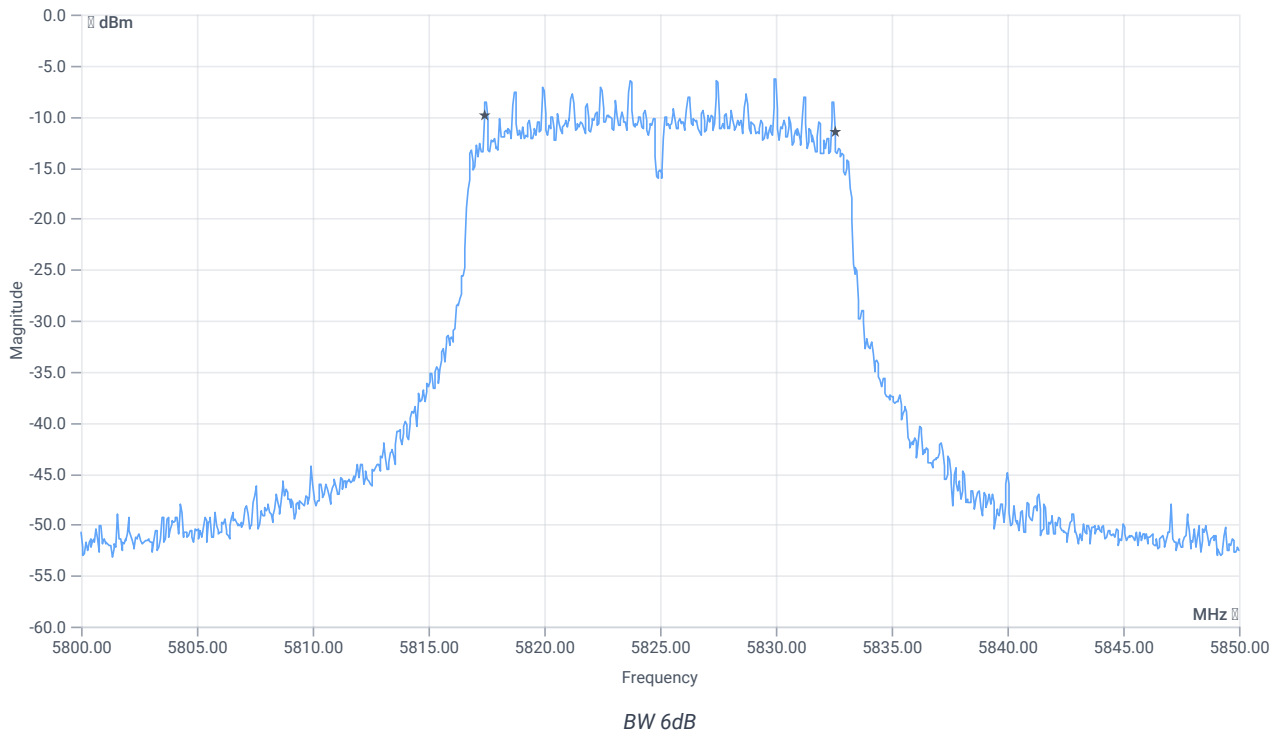
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	0.67	dBm	INFO
Ref. frequency	--	--	5824.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	12.67 10.45 20
Start [MHz] Stop [MHz]	5800.000 5850.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	15.15	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:34:27
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

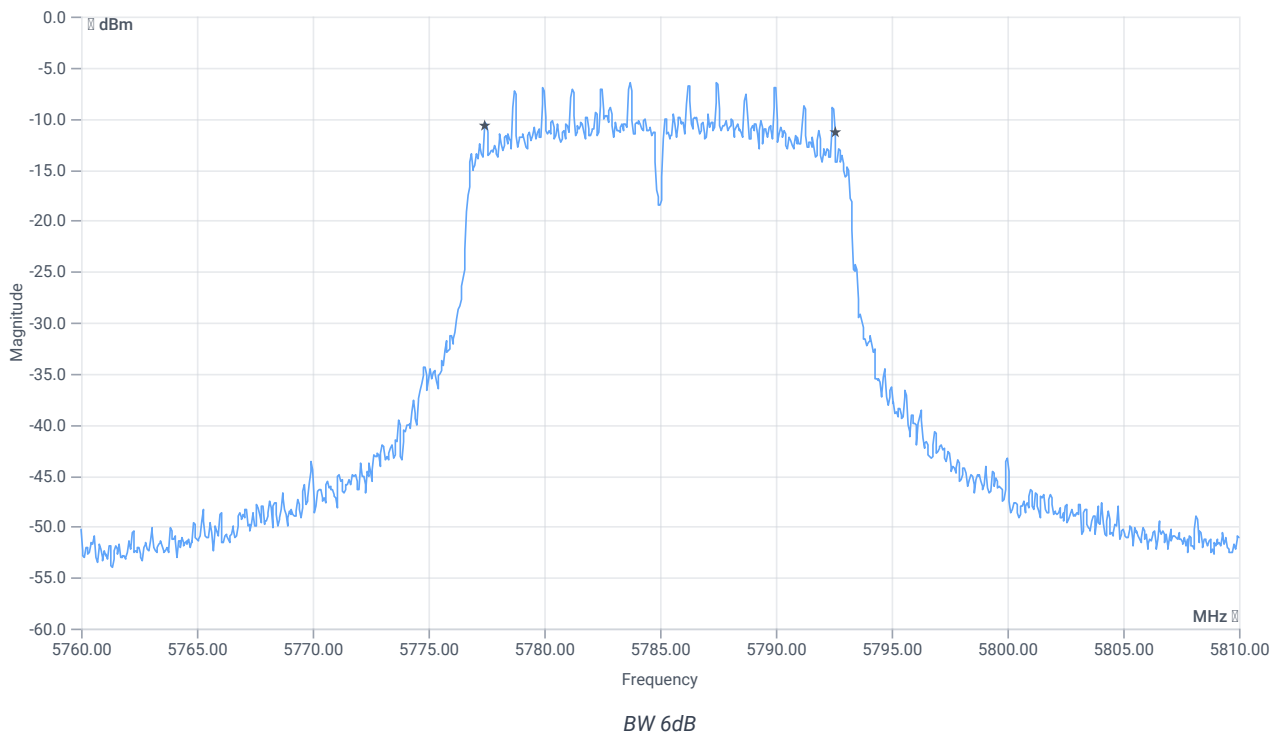
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.00	dBm	INFO
Ref. frequency	--	--	5786.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.00 10.41 20
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	15.15	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:27:05
Ambit temp [°C] humidity [rel%]	26.7 36
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	False Freq [MHz] 5745
Frequency mid to test	True Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

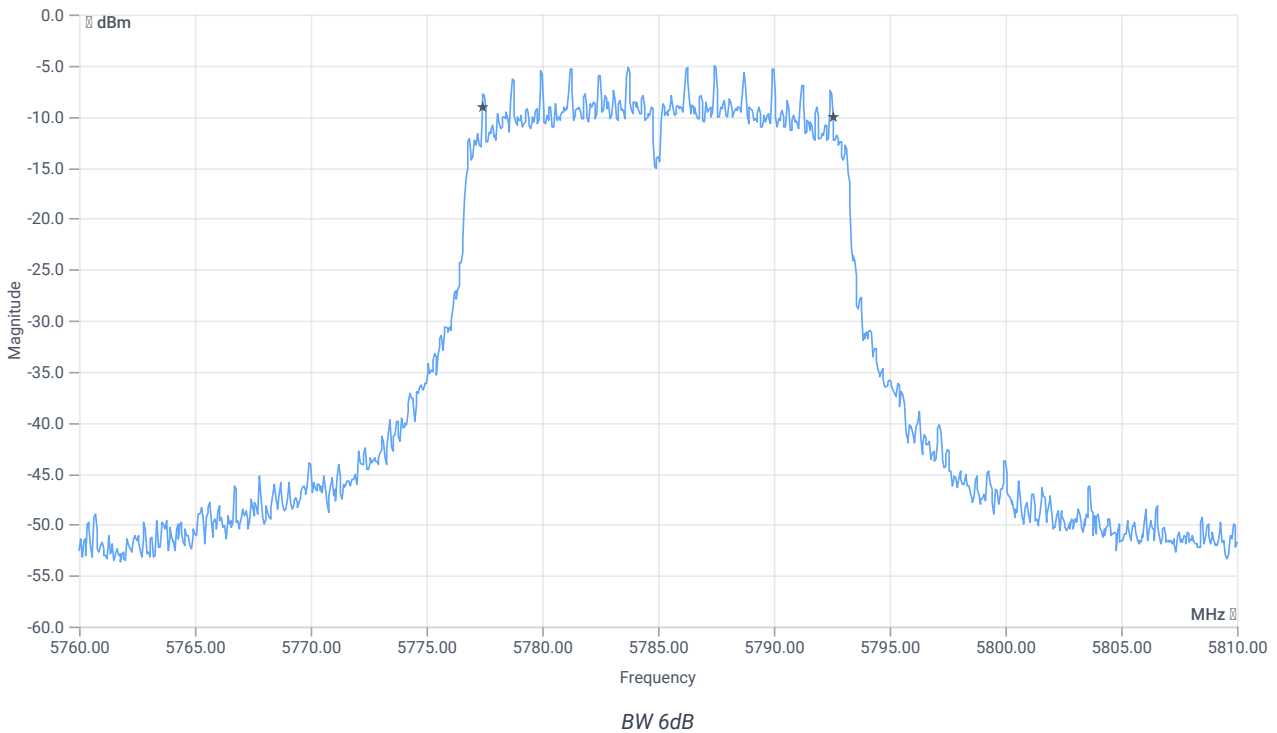
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.37	dBm	INFO
Ref. frequency	--	--	5783.200	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.37 10.38 20
Start [MHz] Stop [MHz]	5760.000 5810.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	15.15	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:18:42
Ambit temp [°C] humidity [rel%]	26.6 37
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT2
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT2.SIG1/EUT2.SA/EUT2.GEN1/EUT2.GEN2/
Switch bits	00100010:00010001:00000000:00000001

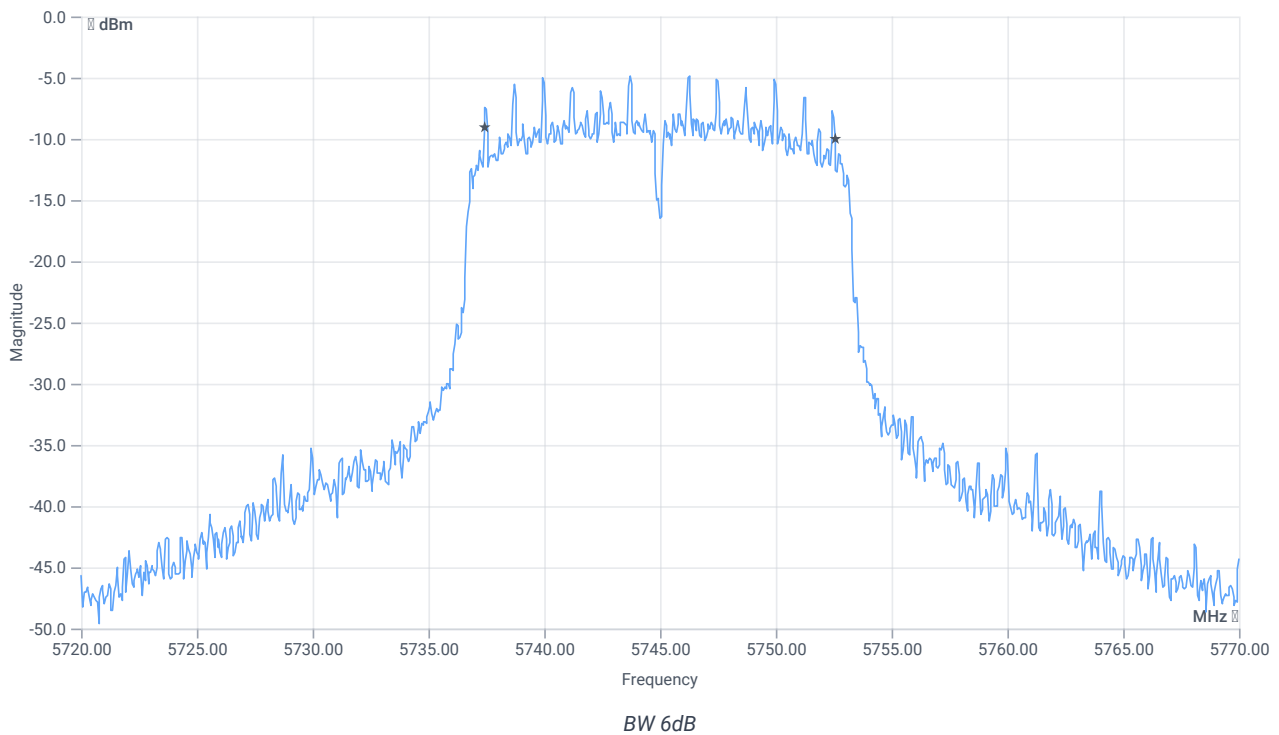
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	1.96	dBm	INFO
Ref. frequency	--	--	5746.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	13.96 10.38 20
Start [MHz] Stop [MHz]	5720.000 5770.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	15.15	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx a mode U-NII-3

References

TC start	26.01.2024 15:11:25
Ambit temp [°C] humidity [rel%]	26.6 37
System version	5.0.1.0
Standard Version	FCC 15.407, ISED RSS247 NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx a mode U-NII-3
Information	

EUT Common Settings WLAN5Gx

Number of antenna ports	1
User Interaction	No
Device class UNII_1	Client
Limit W52 japan	Standard

Equipment

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

Test Parameter

Technology to test	WLAN5Gx a mode
EUT port	EUT1
Temperature	nom
Voltage	nom
Frequency low to test	True Freq [MHz] 5745
Frequency mid to test	False Freq [MHz] 5785
Frequency high to test	False Freq [MHz] 5825
Auto control enabled power supply Climatic Box	No No
Additional path loss [dB]	0.5
Full path type	EUT_SA_GEN_SIG
Full path name	EUT1.SIG1/EUT1.SA/EUT1.GEN1/EUT1.GEN2/
Switch bits	00010001:00010001:00000000:00000001

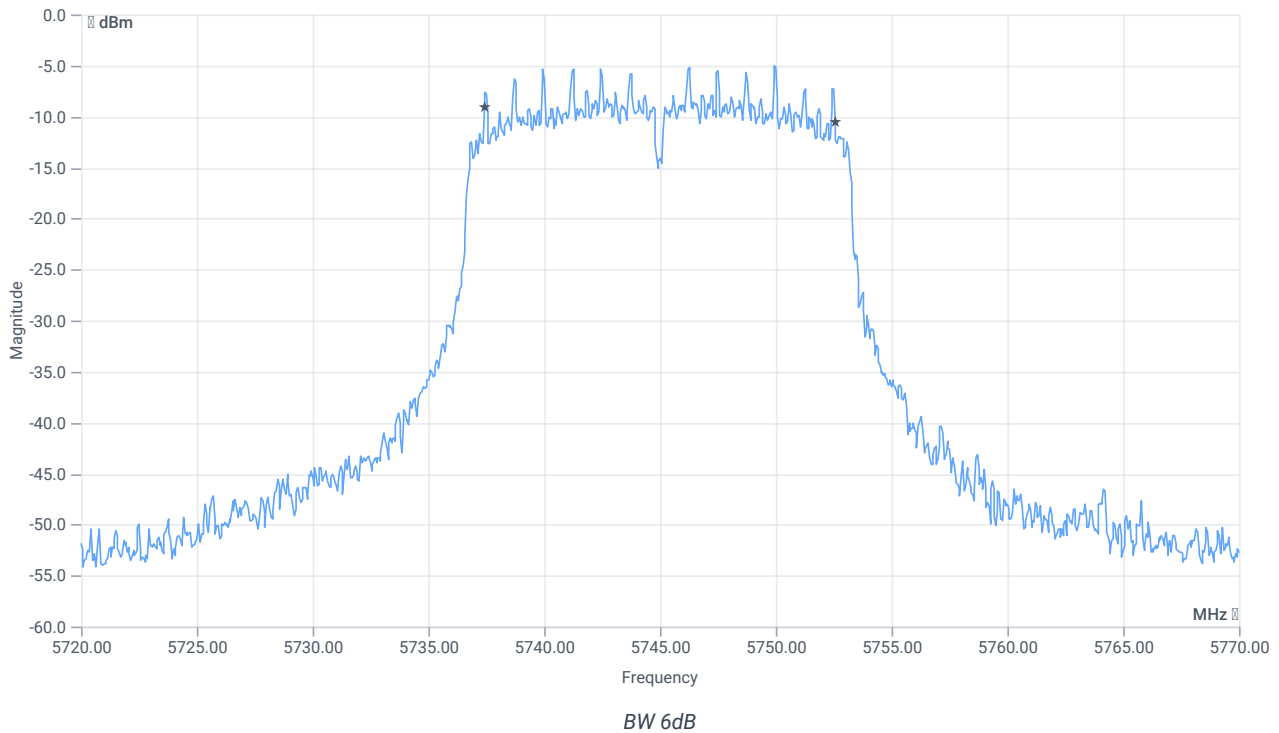
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	--	--	2.56	dBm	INFO
Ref. frequency	--	--	5747.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	14.56 10.36 20
Start [MHz] Stop [MHz]	5720.000 5770.000
RBW [MHz] VBW [MHz]	0.100000 0.300000
Detector TraceMode	POS MAXH
Sweep: time [ms] count points per Section type	2 1500 1001 SWE



RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	--	15.15	MHz	PASS

Verdict

PASS

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