Test at TX 5260 MHz

RESULT: Reference power cond.

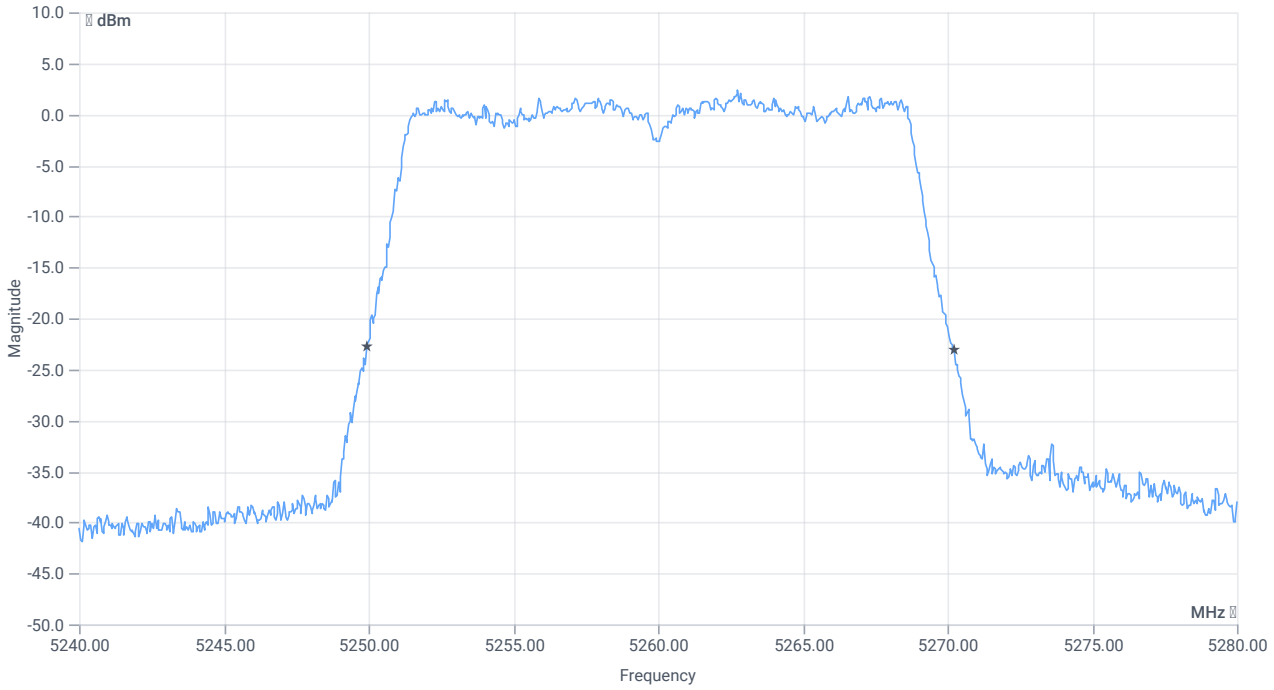
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	7.10	dBm	INFO
Ref. frequency	---	---	5262.600	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5249.9200	MHz	INFO
T2 26dB	---	---	5270.2400	MHz	INFO

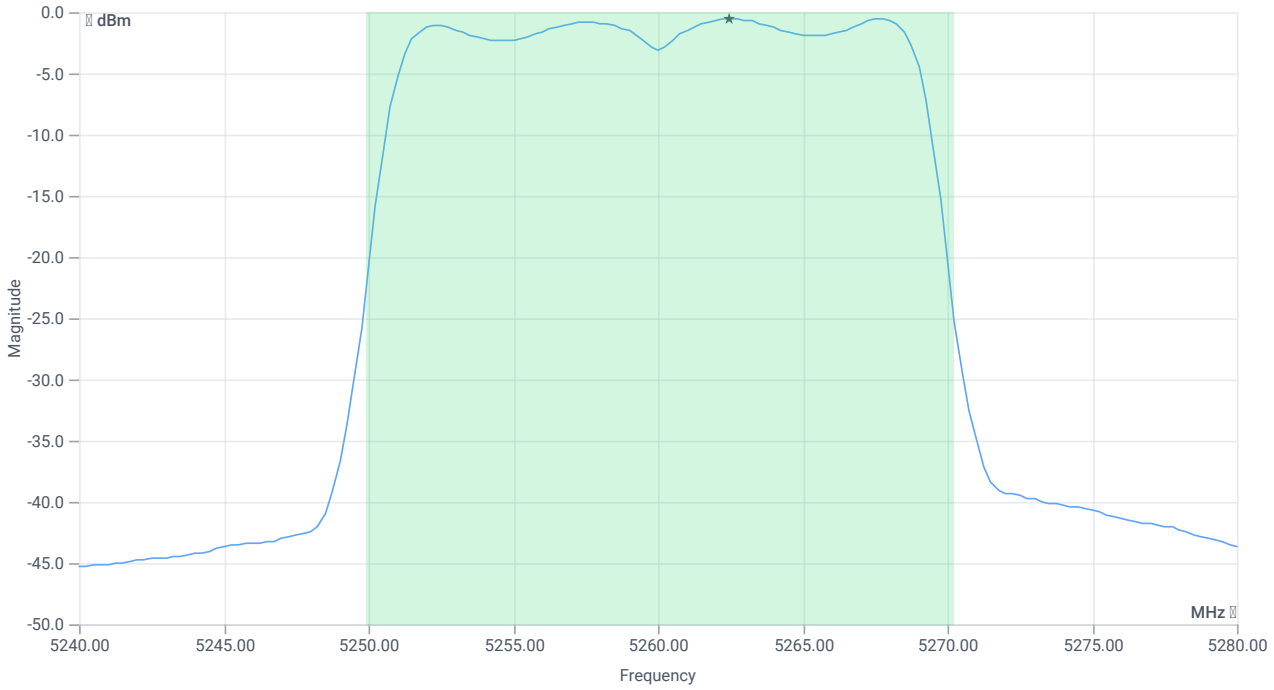
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5260 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.10 | 9.4 | 25
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	5370 | 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	---	---	10.86	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.86	dBm	PASS
LIMIT: 11 dBm + 10 log 20.32					
Max output power DC corrected cond	---	24.08	10.86	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	15.36	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	---	---	-0.51	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-0.51	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

References

TC start	11.04.2024 13:55:23
Ambit temp [°C] | humidity [rel%]	22.8 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

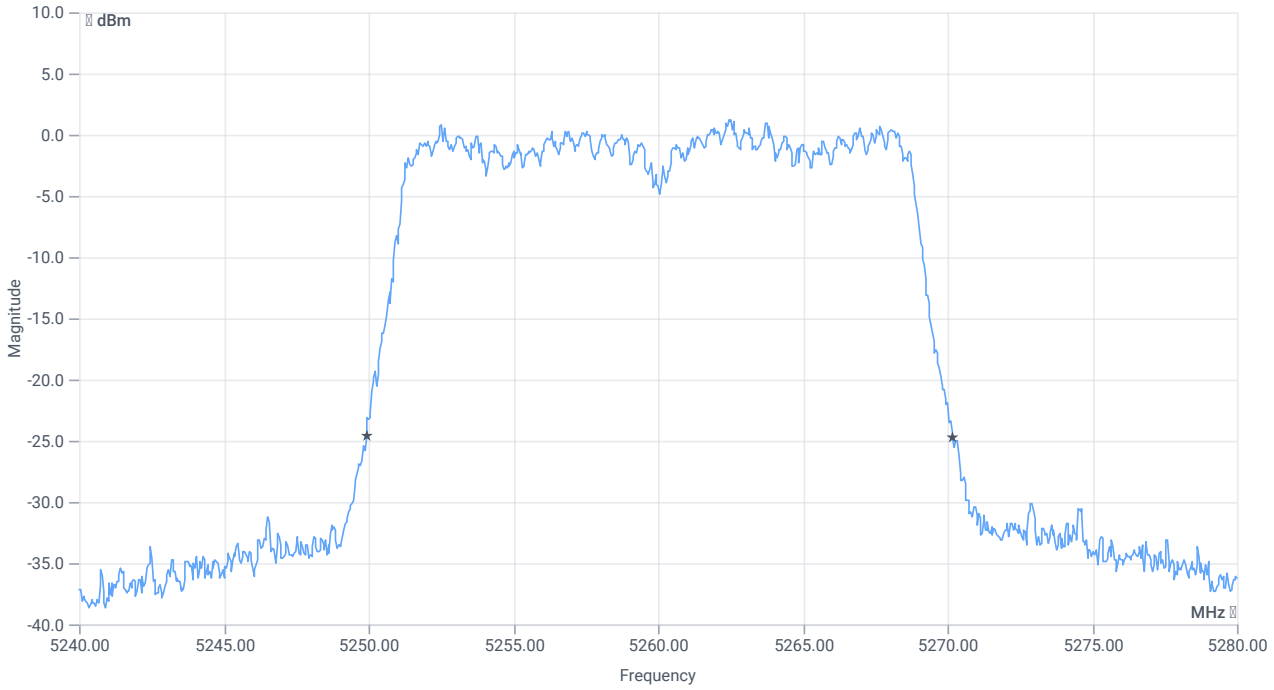
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.11	dBm	INFO
Ref. frequency	---	---	5267.590	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.28	MHz	INFO
T1 26dB	---	---	5249.9200	MHz	INFO
T2 26dB	---	---	5270.2000	MHz	INFO

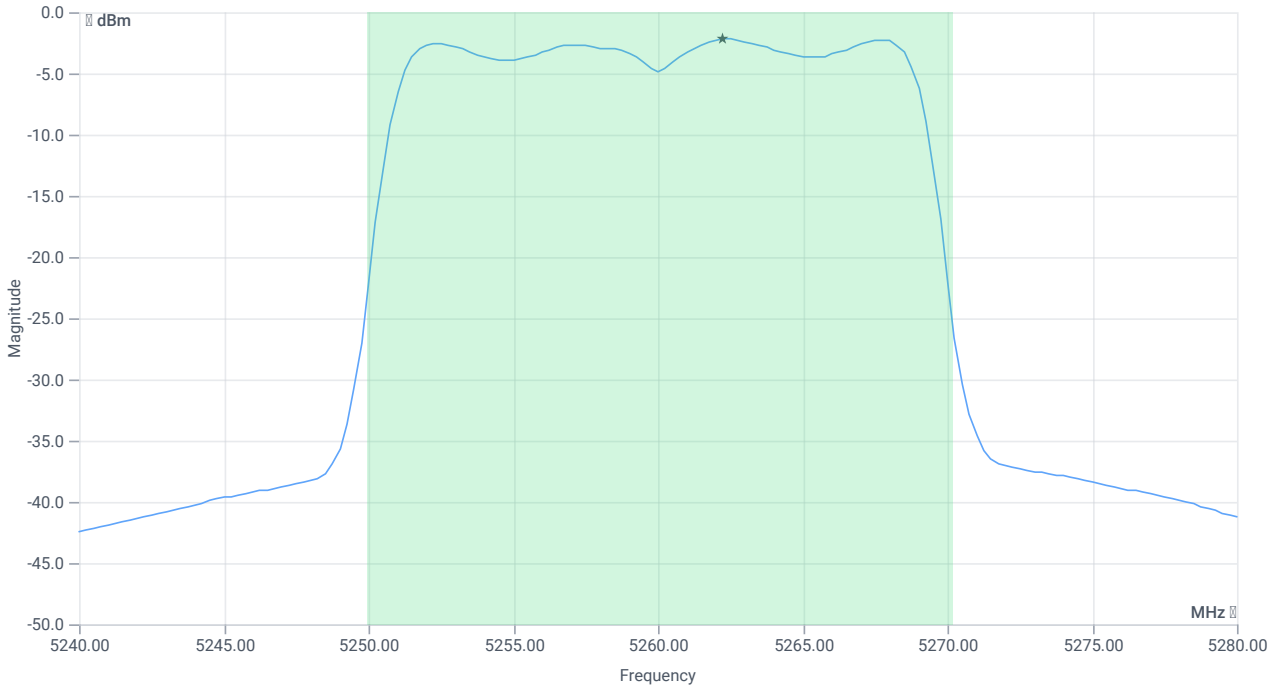
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5260 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.11 | 9.4 | 25
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	5370 | 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	---	---	9.16	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.16	dBm	PASS
LIMIT: 11 dBm + 10 log 20.28					
Max output power DC corrected cond	---	24.07	9.16	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	13.66	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	---	---	-2.2	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-2.2	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

References

TC start	11.04.2024 13:56:40
Ambit temp [°C] | humidity [rel%]	22.9 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

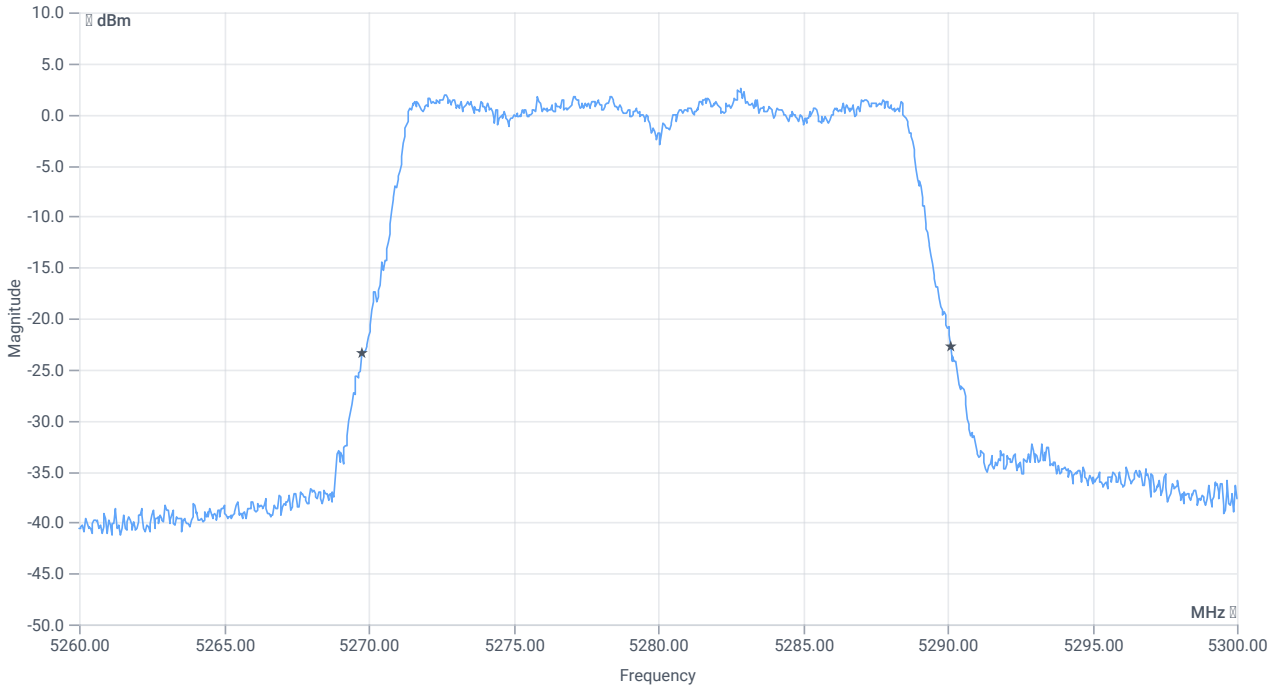
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	7.17	dBm	INFO
Ref. frequency	---	---	5287.590	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5269.7600	MHz	INFO
T2 26dB	---	---	5290.1200	MHz	INFO

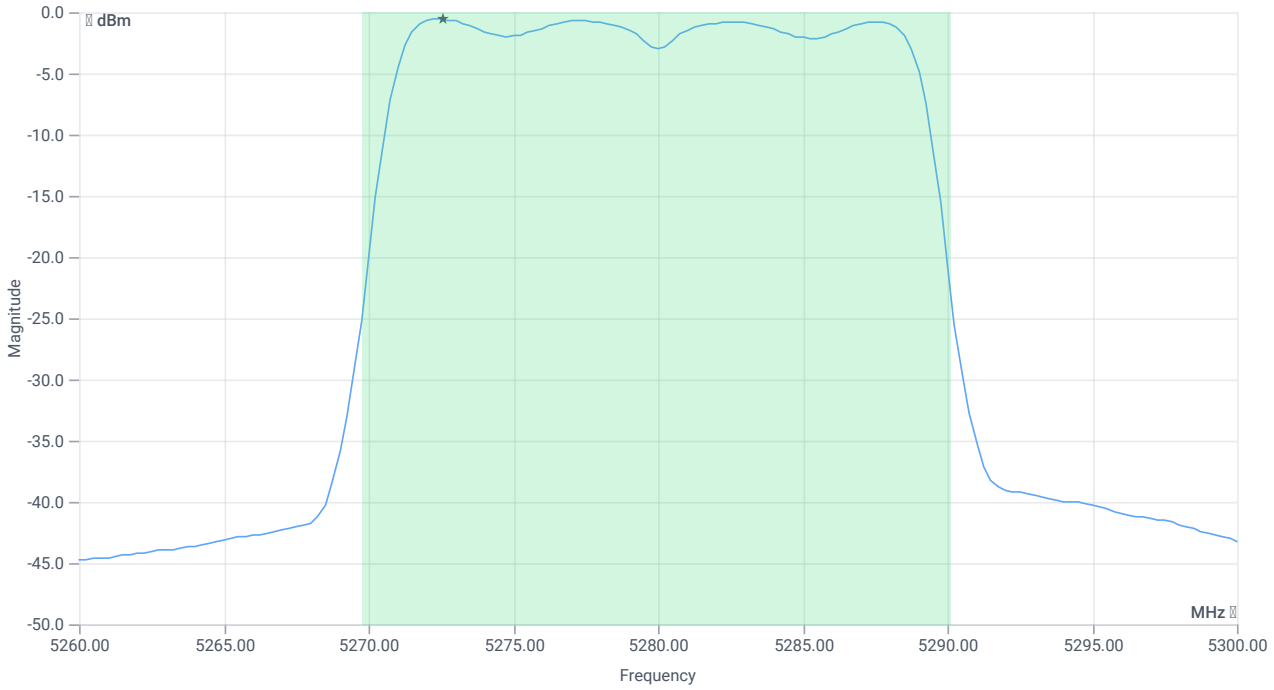
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5280 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.17 | 9.43 | 25
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	5370 | 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	---	---	10.95	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.95	dBm	PASS
LIMIT: 11 dBm + 10 log 20.36					
Max output power DC corrected cond	---	24.09	10.95	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	15.45	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	---	---	-0.57	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-0.57	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

References

TC start	11.04.2024 13:57:47
Ambit temp [°C] | humidity [rel%]	23.1 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

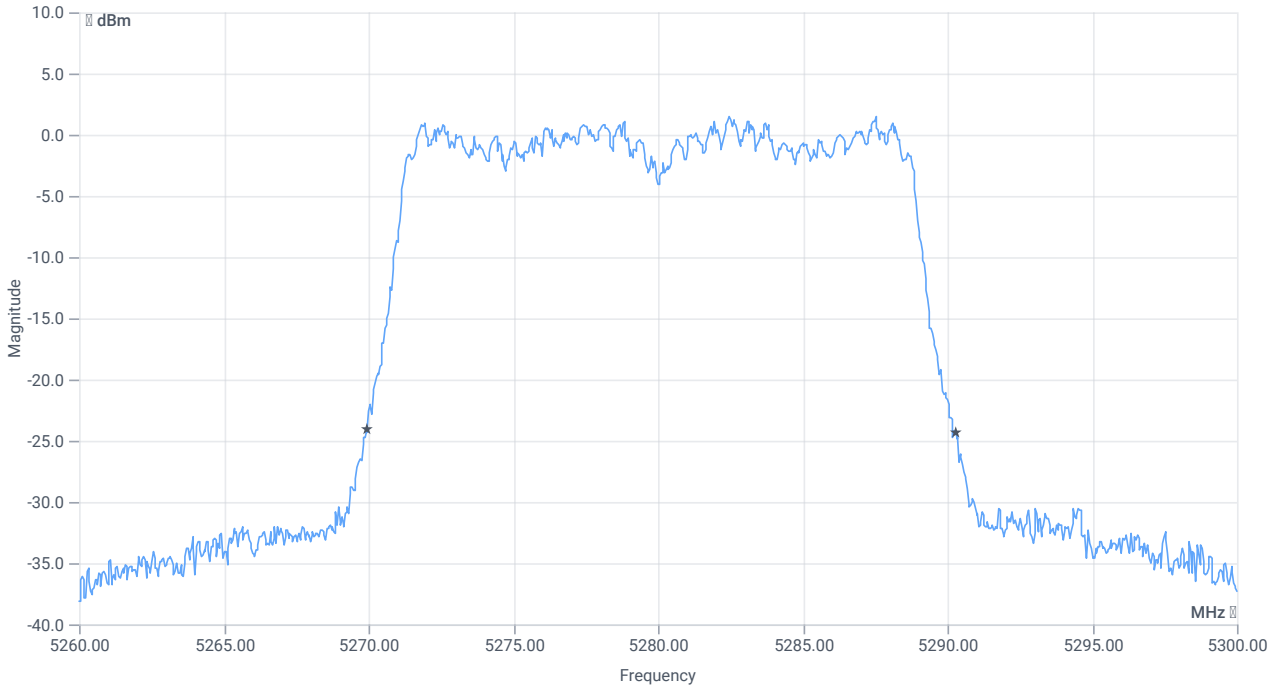
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.97	dBm	INFO
Ref. frequency	---	---	5283.000	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5269.9200	MHz	INFO
T2 26dB	---	---	5290.2800	MHz	INFO

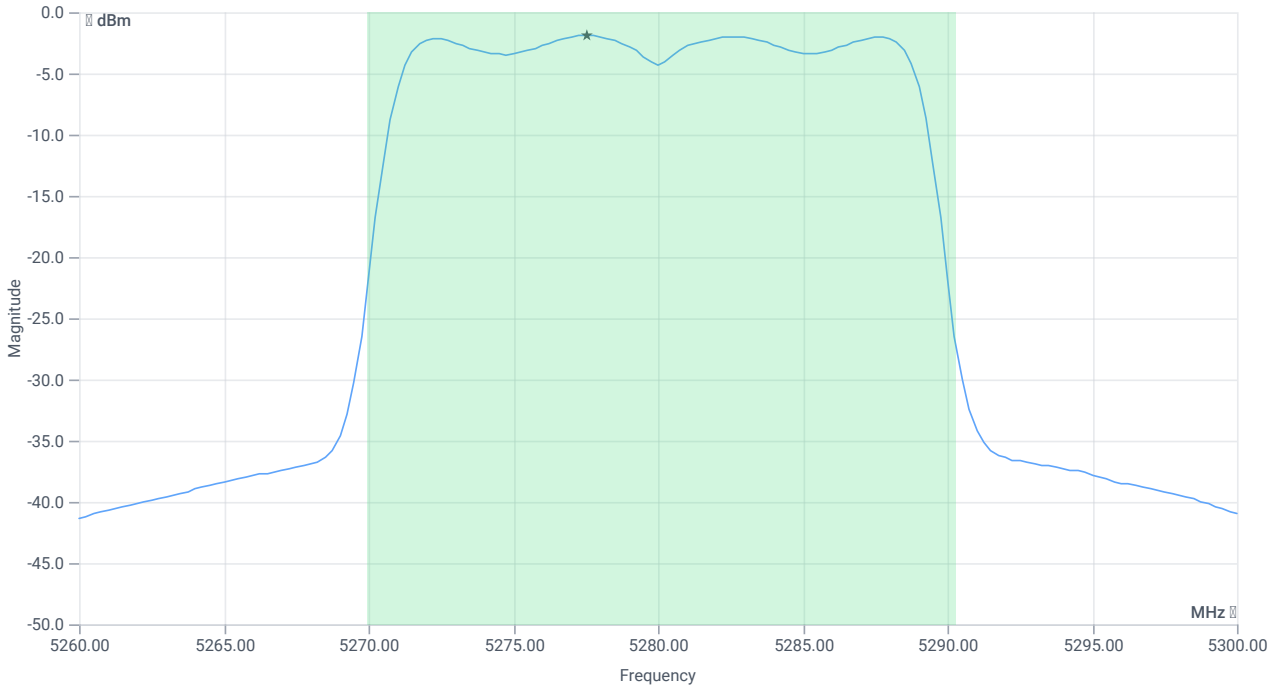
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5280 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.97 | 9.42 | 25
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	5370 | 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	---	---	9.59	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.59	dBm	PASS
LIMIT: 11 dBm + 10 log 20.36					
Max output power DC corrected cond	---	24.09	9.59	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	14.09	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	---	---	-1.88	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-1.88	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

References

TC start	11.04.2024 13:59:04
Ambit temp [°C] | humidity [rel%]	23.2 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

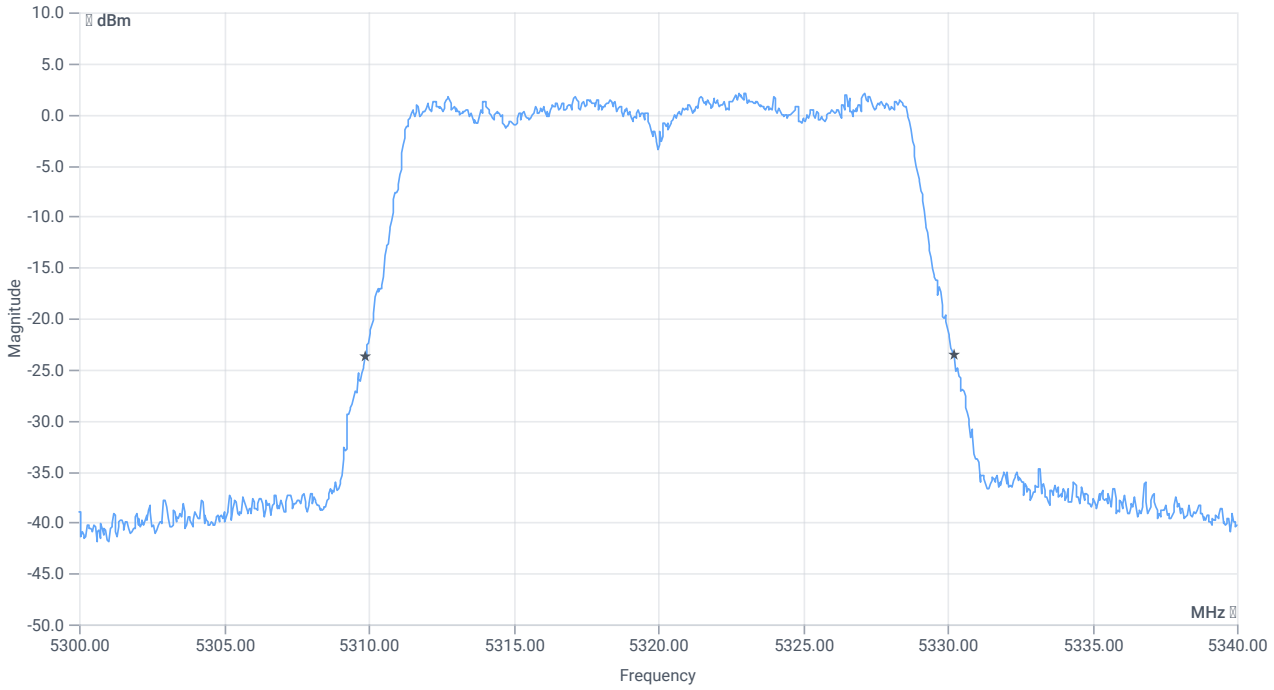
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	7.19	dBm	INFO
Ref. frequency	---	---	5327.790	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5309.8800	MHz	INFO
T2 26dB	---	---	5330.2400	MHz	INFO

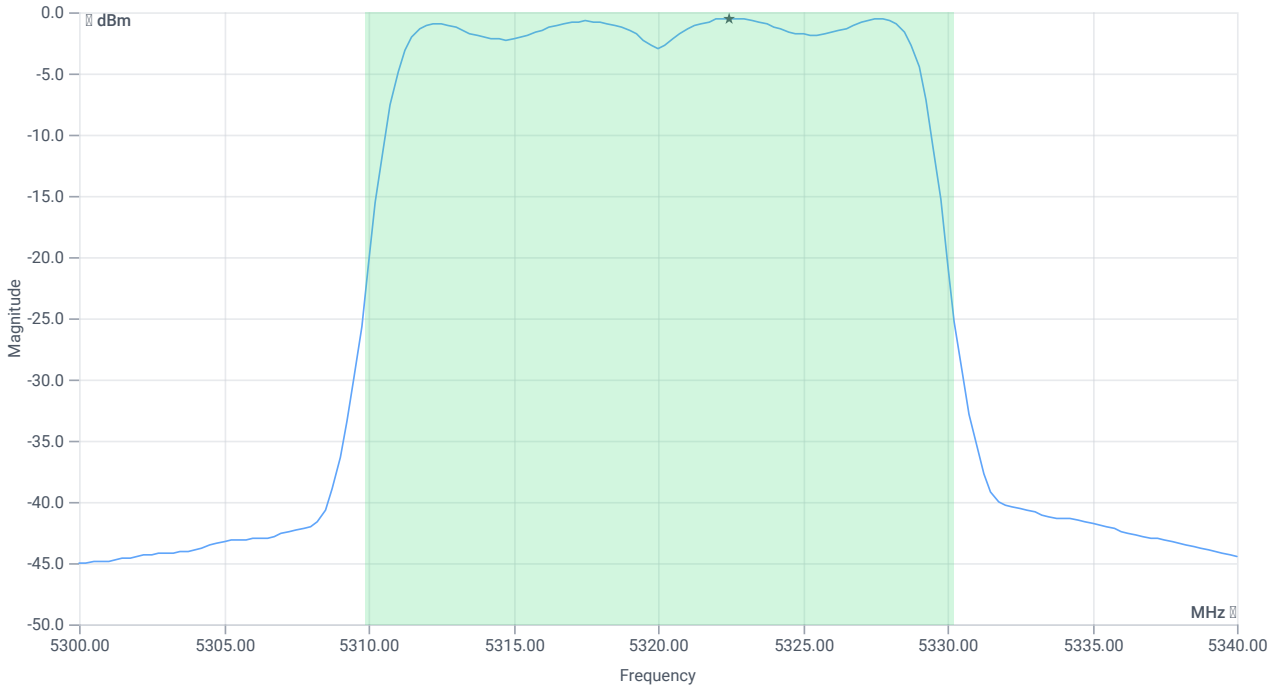
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5320 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.19 | 9.45 | 25
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	5370 | 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	---	---	10.94	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.94	dBm	PASS
LIMIT: 11 dBm + 10 log 20.36					
Max output power DC corrected cond	---	24.09	10.94	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	15.44	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	---	---	-0.49	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-0.49	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2A

References

TC start	11.04.2024 14:00:12
Ambit temp [°C] | humidity [rel%]	23.4 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

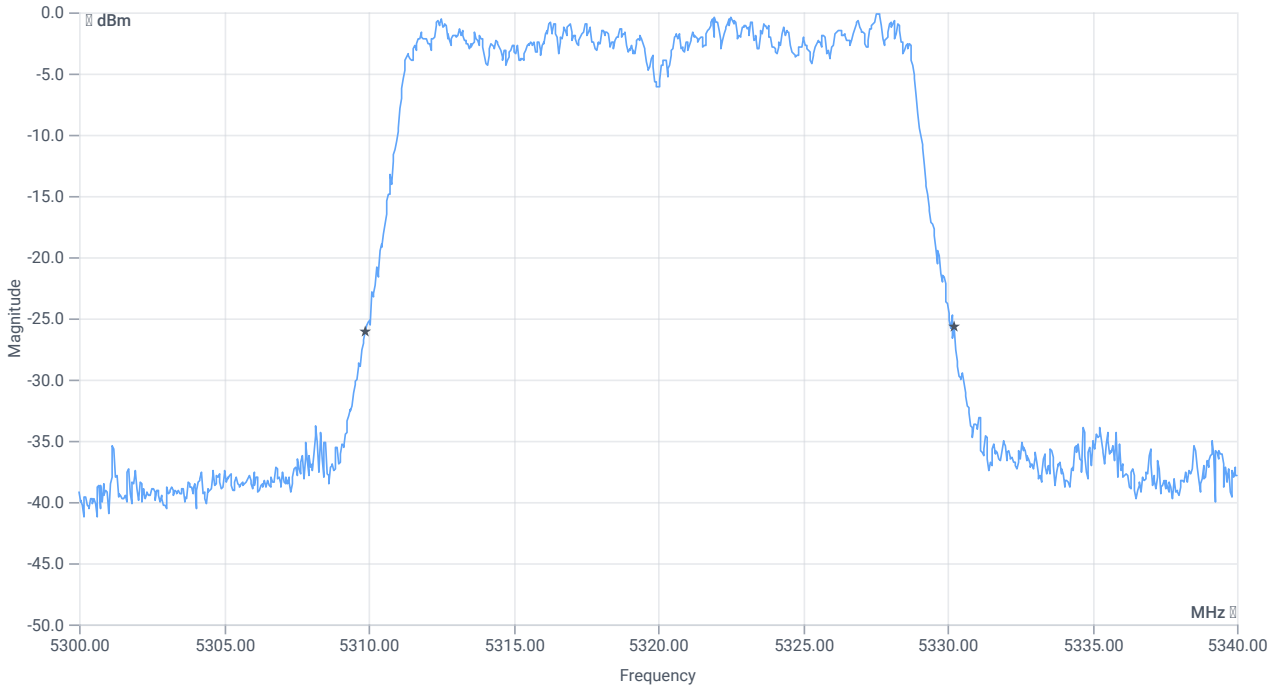
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.46	dBm	INFO
Ref. frequency	---	---	5322.600	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.36	MHz	INFO
T1 26dB	---	---	5309.8800	MHz	INFO
T2 26dB	---	---	5330.2400	MHz	INFO

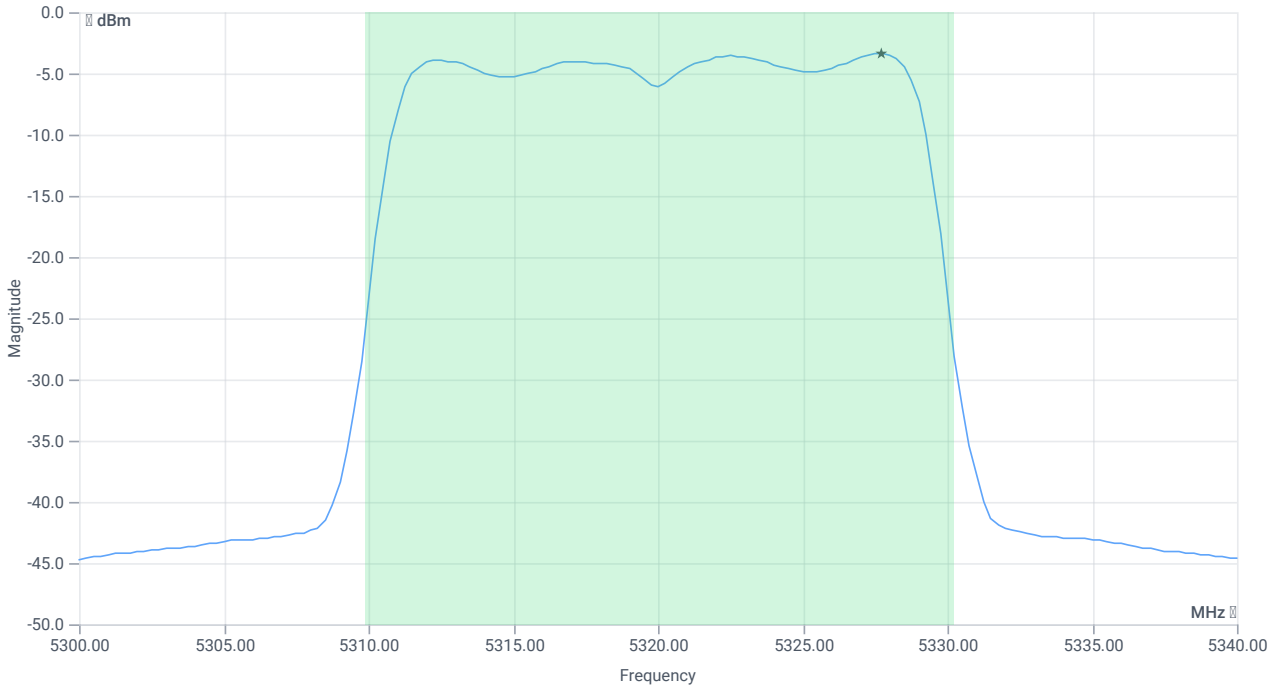
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5320 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.46 | 9.46 | 25
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	5370 | 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	---	---	7.9	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	7.9	dBm	PASS
LIMIT: 11 dBm + 10 log 20.36					
Max output power DC corrected cond	---	24.09	7.9	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	12.4	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	---	---	-3.39	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-3.39	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

References

TC start	11.04.2024 14:01:30
Ambit temp [°C] | humidity [rel%]	23.6 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

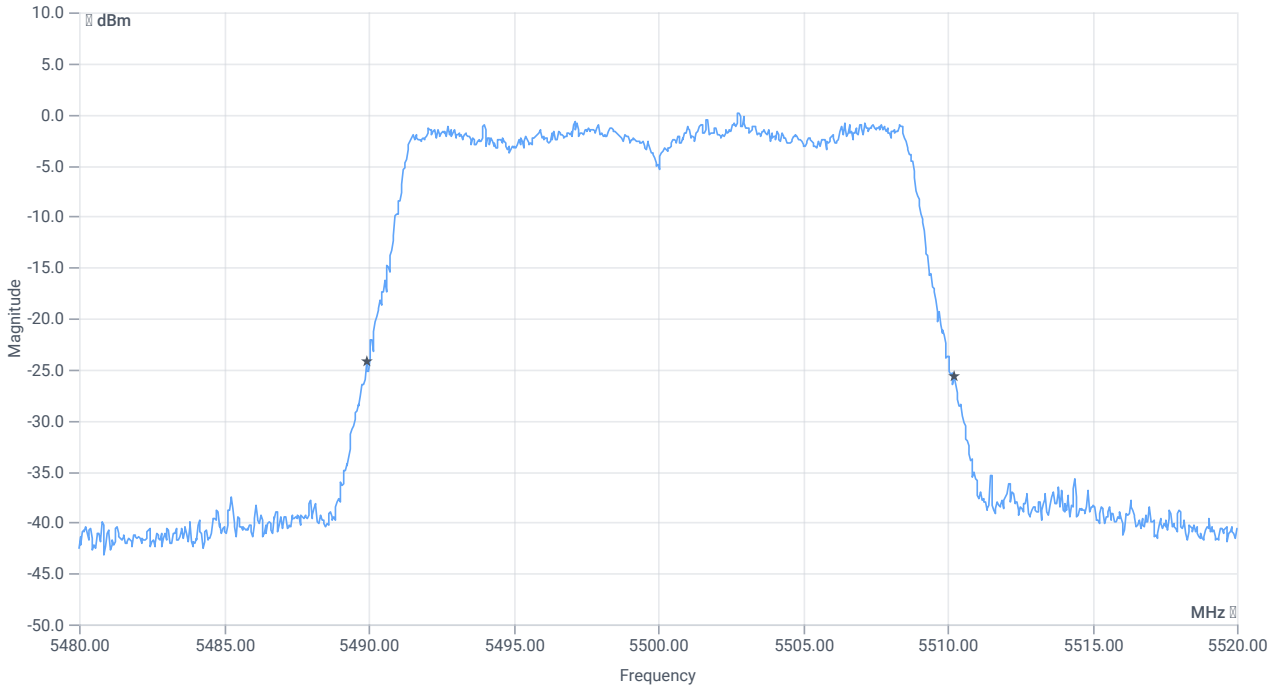
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.00	dBm	INFO
Ref. frequency	---	---	5503.400	MHz	INFO

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



BW 26dB

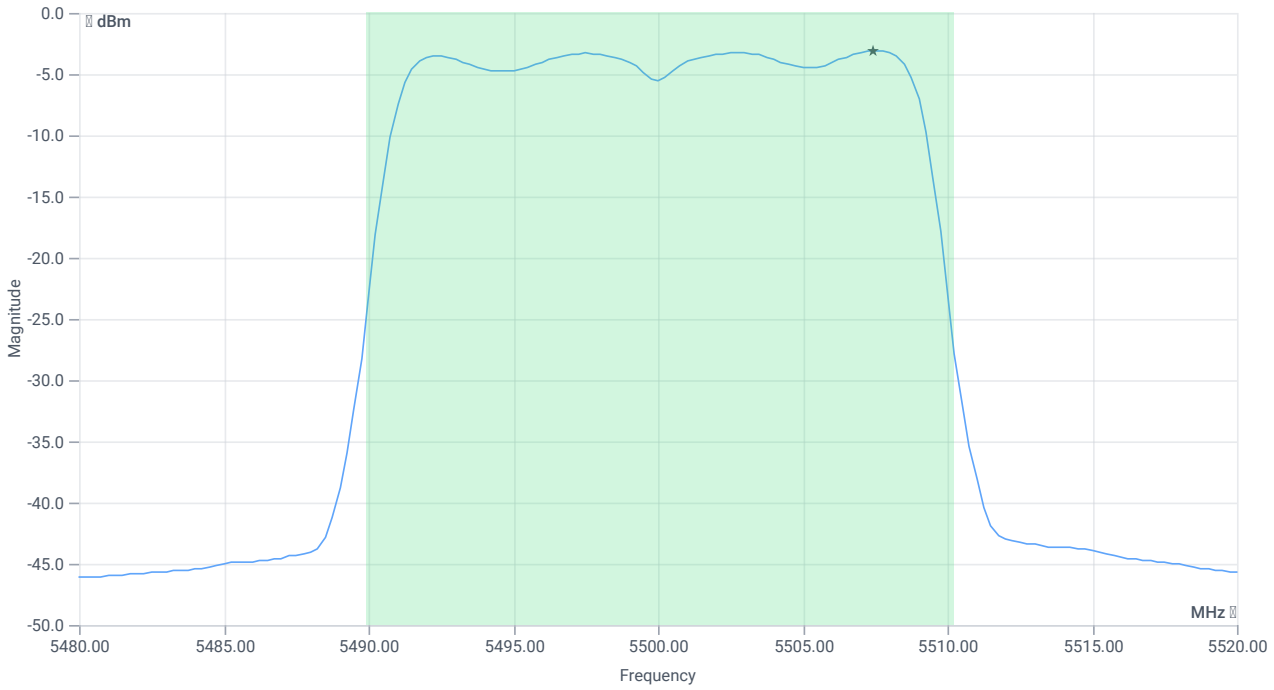
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5489.9200	MHz	INFO
T2 26dB	---	---	5510.2400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.00 | 9.58 | 25
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	5370 | 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	---	---	8.37	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	8.37	dBm	PASS
LIMIT: 11 dBm + 10 log 20.32					
Max output power DC corrected cond	---	24.08	8.37	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	8.37	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	---	---	-3.06	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-3.06	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

References

TC start	11.04.2024 14:02:39
Ambit temp [°C] | humidity [rel%]	23.7 | 31
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

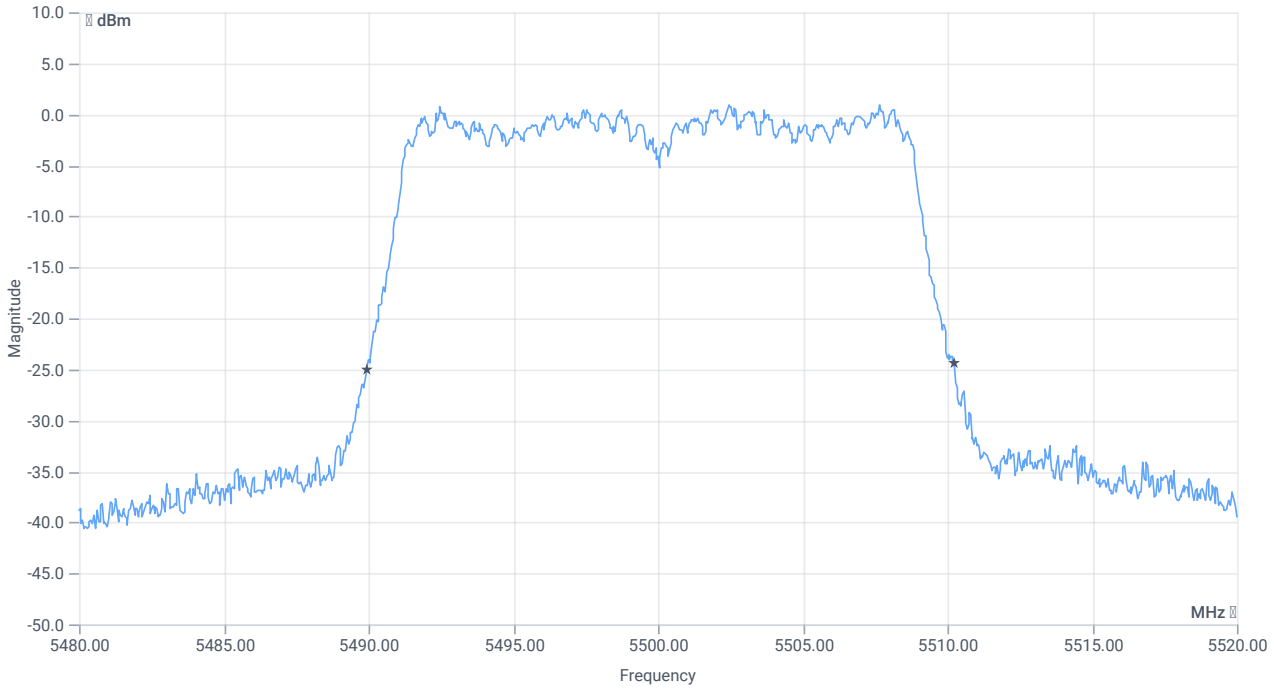
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.99	dBm	INFO
Ref. frequency	---	---	5503.400	MHz	INFO

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



BW 26dB

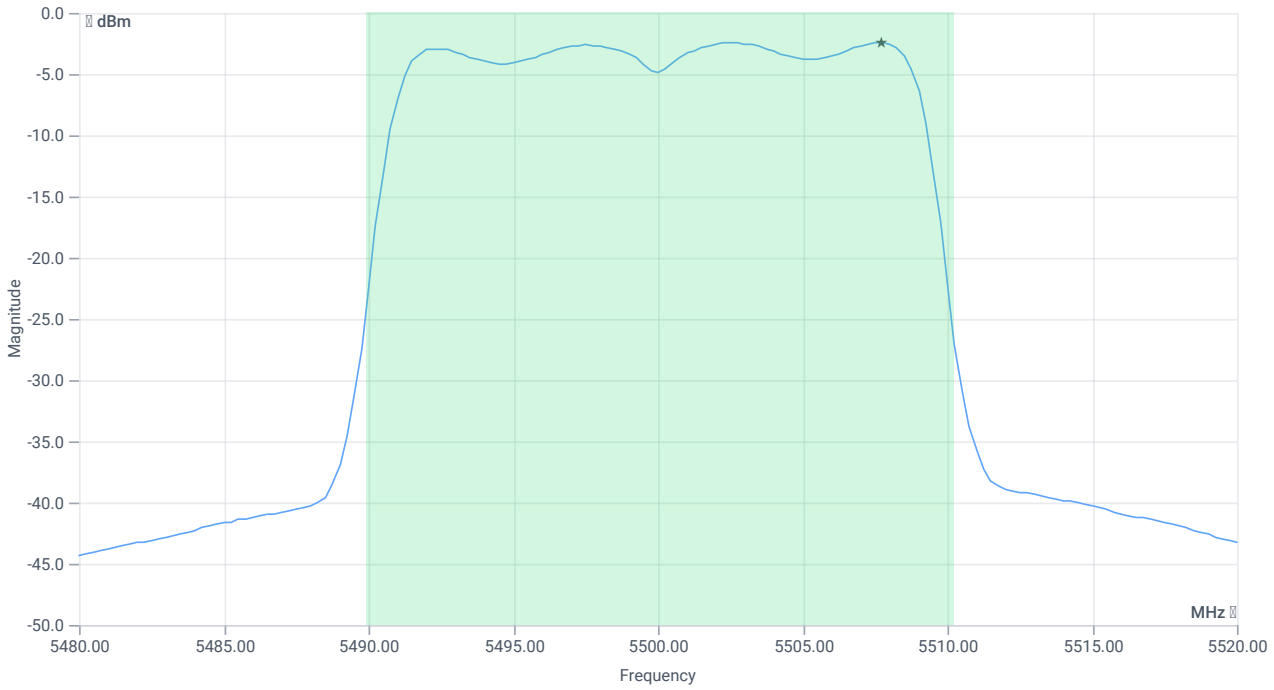
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5489.9200	MHz	INFO
T2 26dB	---	---	5510.2400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.99 | 9.64 | 25
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	5370 | 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	---	---	9.03	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.03	dBm	PASS
LIMIT: 11 dBm + 10 log 20.32					
Max output power DC corrected cond	---	24.08	9.03	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	9.03	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	---	---	-2.41	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-2.41	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

References

TC start	11.04.2024 14:03:53
Ambit temp [°C] | humidity [rel%]	23.6 | 31
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

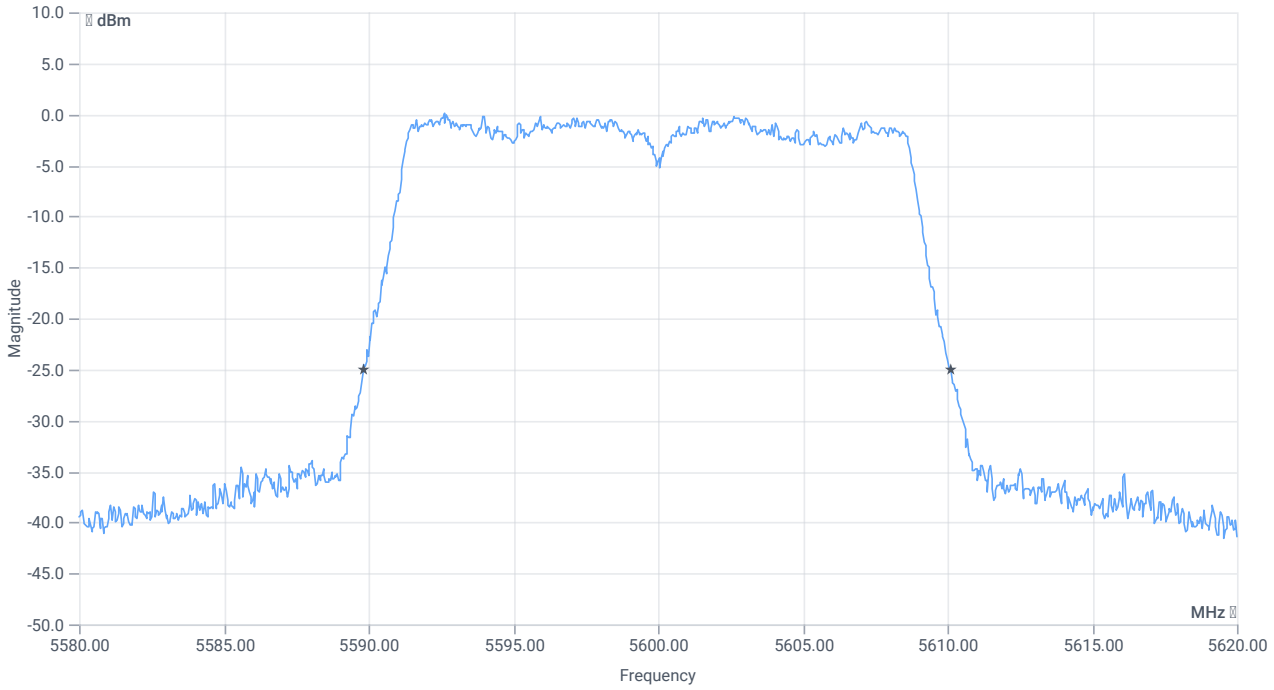
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.82	dBm	INFO
Ref. frequency	---	---	5592.210	MHz	INFO

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



BW 26dB

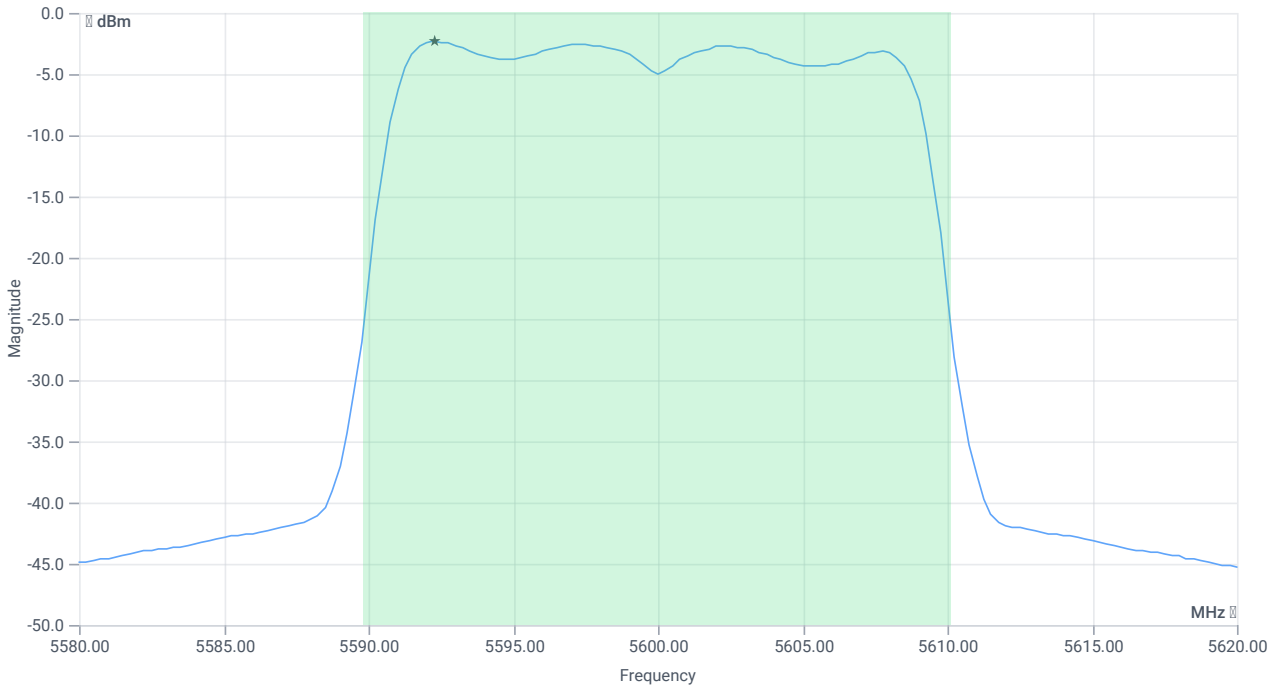
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5589.8000	MHz	INFO
T2 26dB	---	---	5610.1200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.82 | 9.96 | 25
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	5370 | 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	---	---	8.91	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	8.91	dBm	PASS
LIMIT: 11 dBm + 10 log 20.32					
Max output power DC corrected cond	---	24.08	8.91	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	8.91	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	---	---	-2.35	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-2.35	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

References

TC start	11.04.2024 14:05:03
Ambit temp [°C] | humidity [rel%]	23.4 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

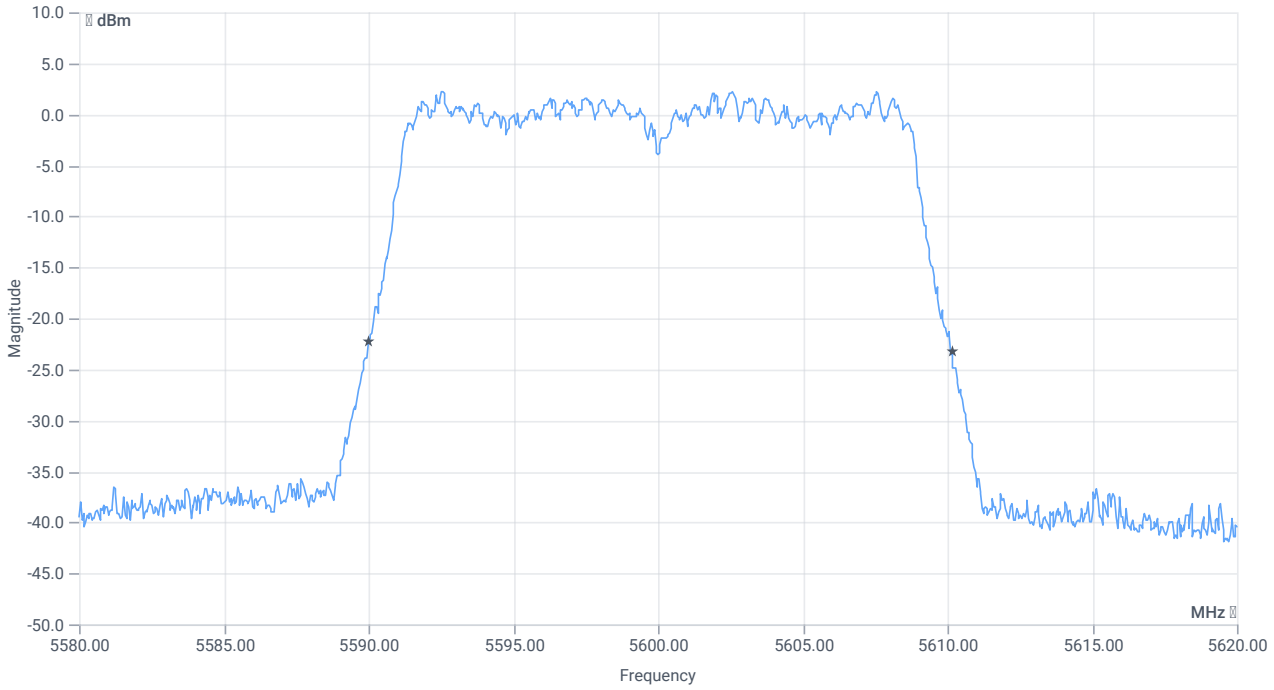
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.88	dBm	INFO
Ref. frequency	---	---	5607.590	MHz	INFO

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



BW 26dB

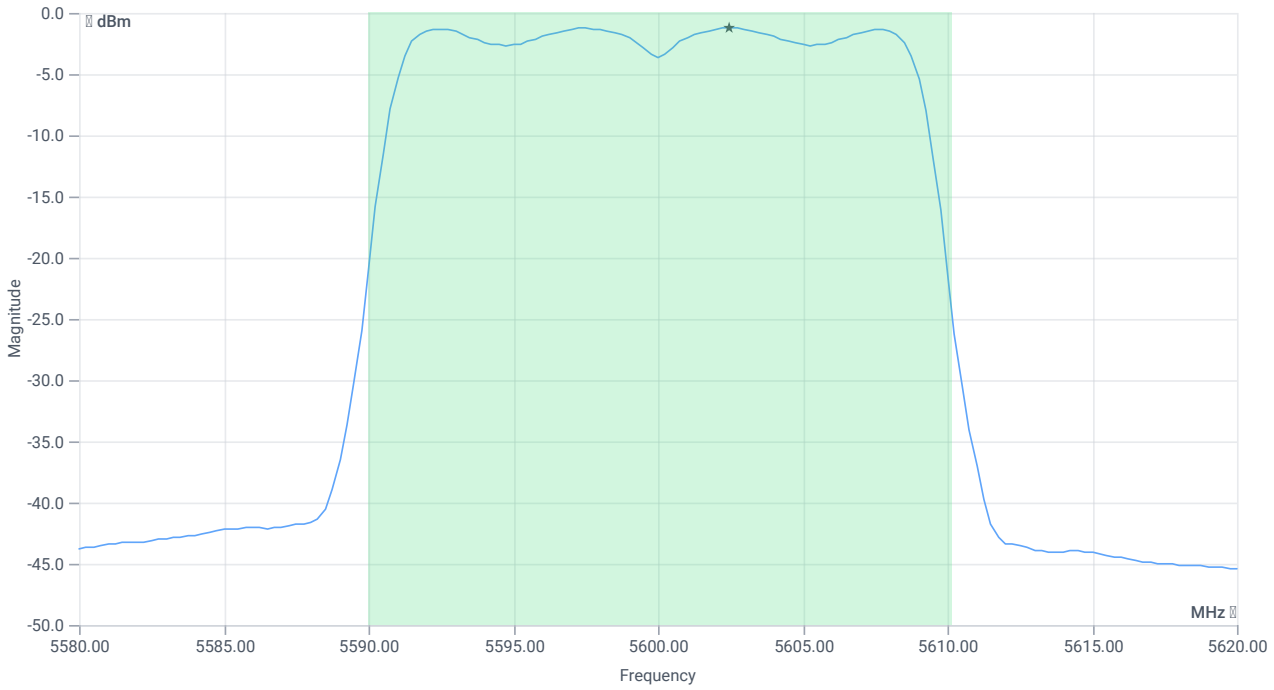
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.16	MHz	INFO
T1 26dB	---	---	5590.0000	MHz	INFO
T2 26dB	---	---	5610.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.88 | 9.9 | 25
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	5370 | 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	---	---	10.34	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.34	dBm	PASS
LIMIT: 11 dBm + 10 log 20.16					
Max output power DC corrected cond	---	24.04	10.34	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	10.34	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	---	---	-1.22	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-1.22	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

References

TC start	11.04.2024 14:06:17
Ambit temp [°C] | humidity [rel%]	23.2 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

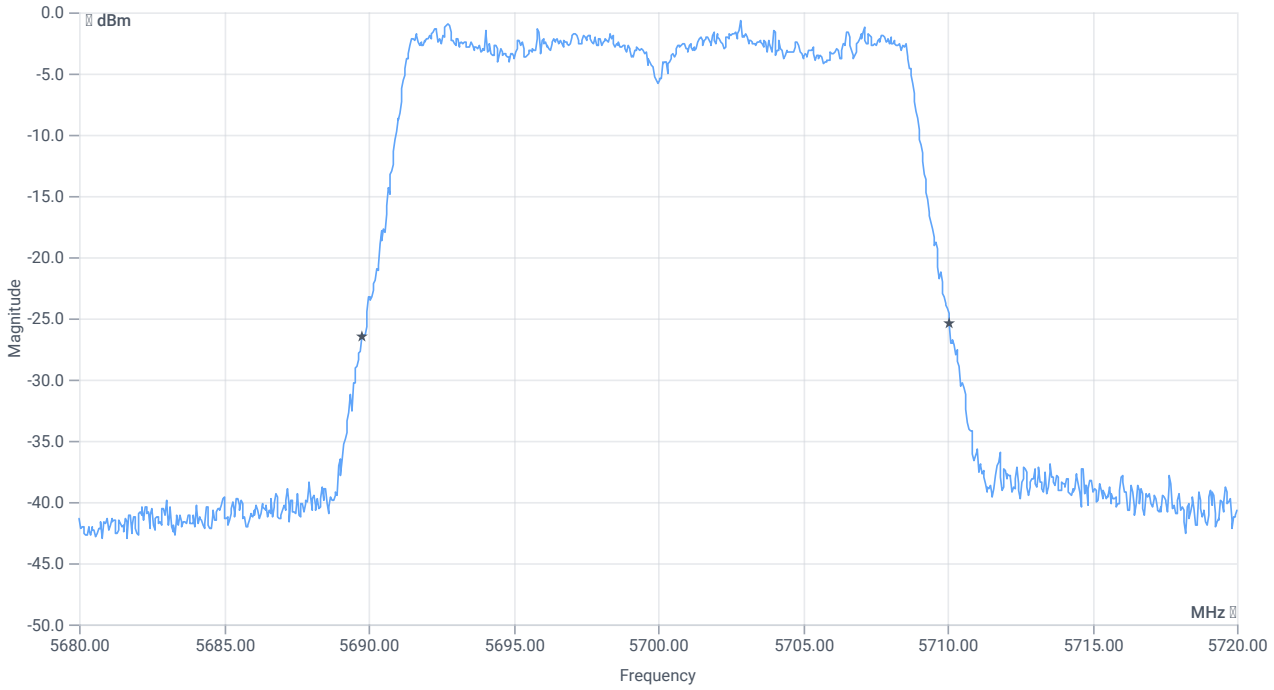
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.04	dBm	INFO
Ref. frequency	---	---	5702.400	MHz	INFO

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



BW 26dB

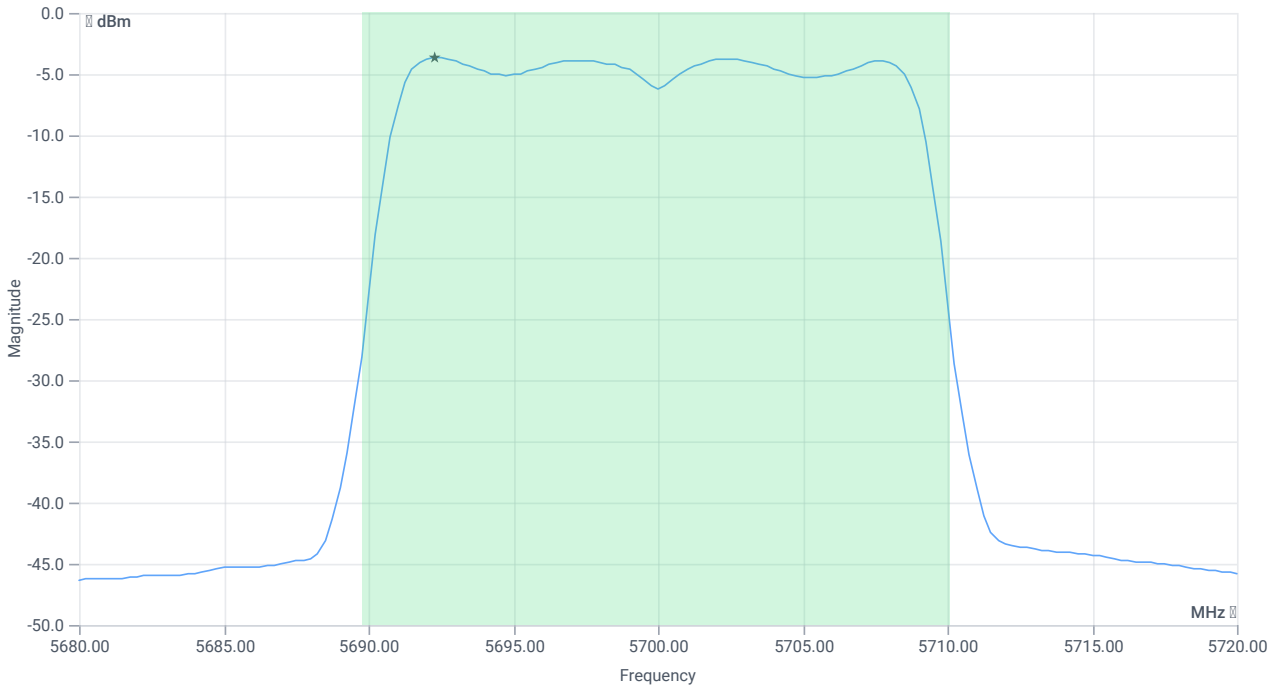
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5689.7600	MHz	INFO
T2 26dB	---	---	5710.0800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.04 | 9.62 | 25
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	5370 | 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	---	---	7.81	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	7.81	dBm	PASS
LIMIT: 11 dBm + 10 log 20.32					
Max output power DC corrected cond	---	24.08	7.81	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	7.81	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	---	---	-3.62	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-3.62	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-2C

References

TC start	11.04.2024 14:07:26
Ambit temp [°C] | humidity [rel%]	23.1 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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.

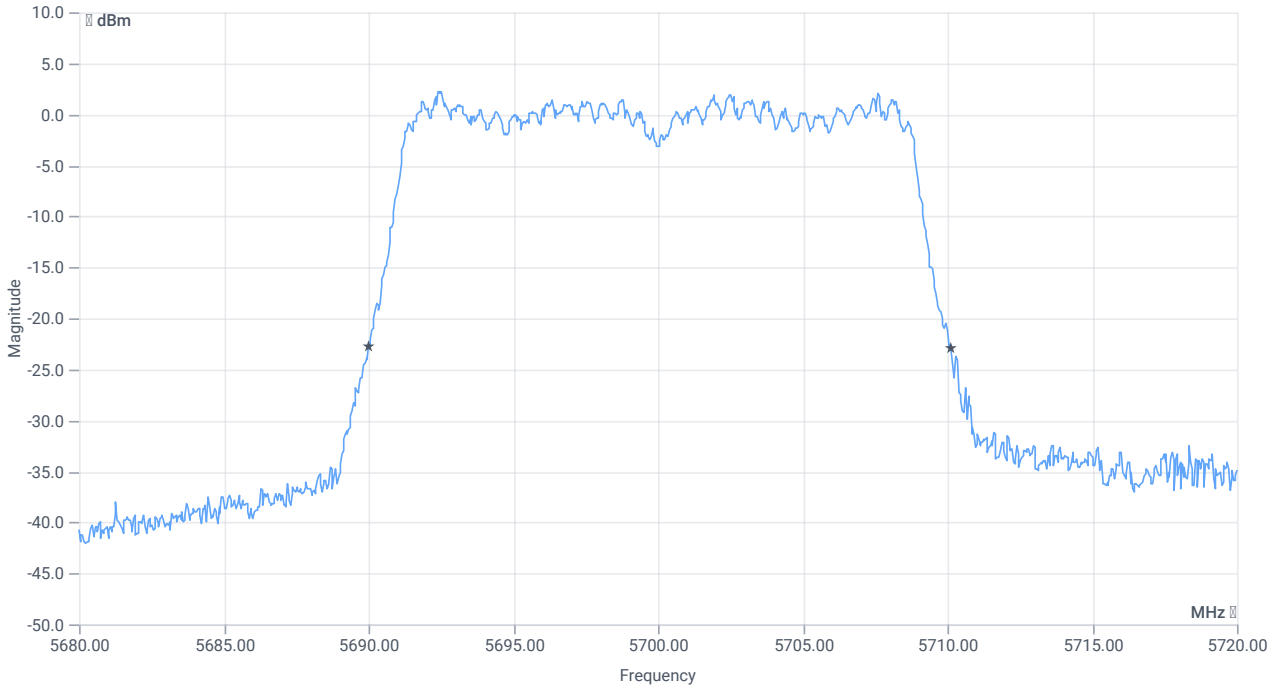
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.54	dBm	INFO
Ref. frequency	---	---	5703.000	MHz	INFO

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



BW 26dB

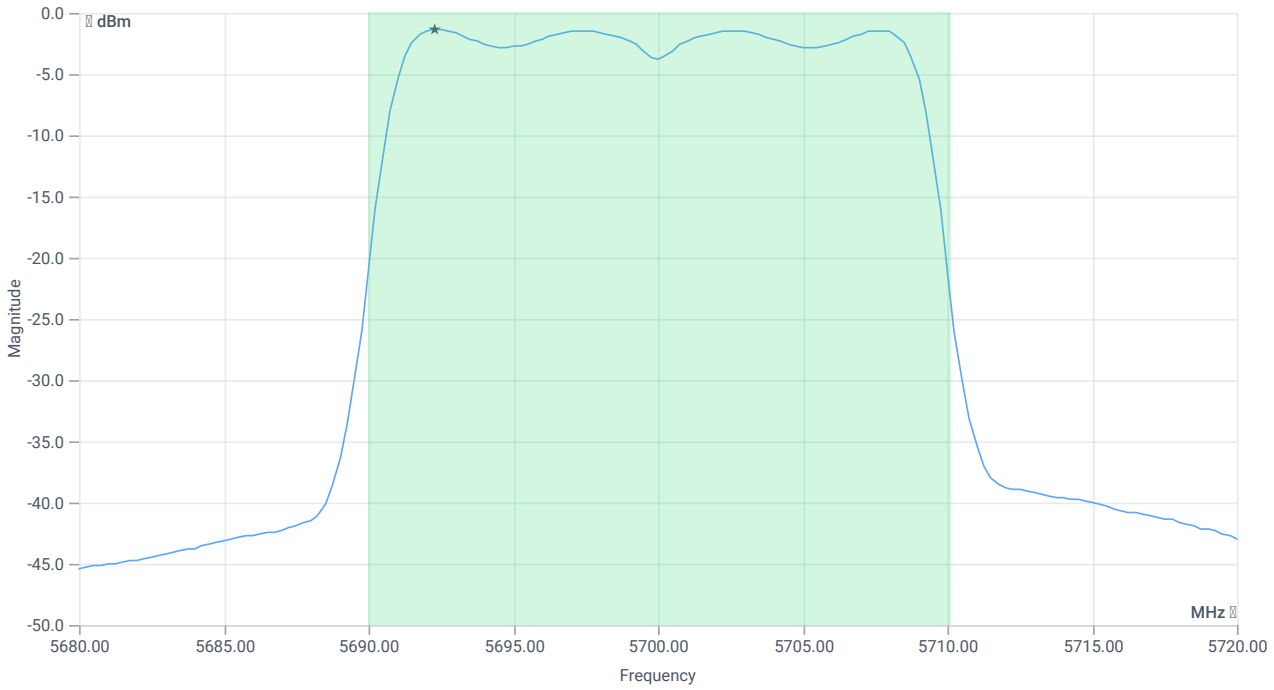
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.12	MHz	INFO
T1 26dB	---	---	5690.0000	MHz	INFO
T2 26dB	---	---	5710.1200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.54 | 9.64 | 25
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	5370 | 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	---	---	10.17	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.17	dBm	PASS
LIMIT: 11 dBm + 10 log 20.12					
Max output power DC corrected cond	---	24.04	10.17	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	10.17	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	---	---	-1.4	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-1.4	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	11.04.2024 14:08:42
Ambit temp [°C] | humidity [rel%]	23.1 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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 5745 MHz

RESULT: Reference power cond.

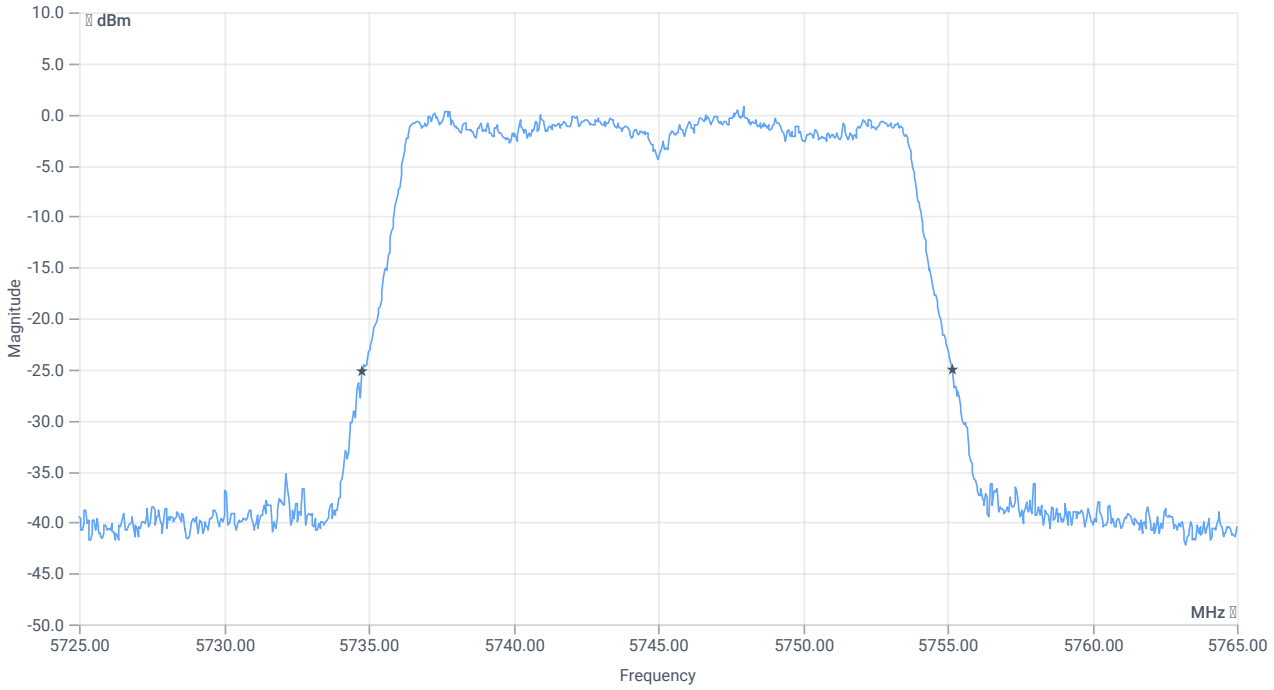
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.96	dBm	INFO
Ref. frequency	---	---	5737.010	MHz	INFO

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



BW 26dB

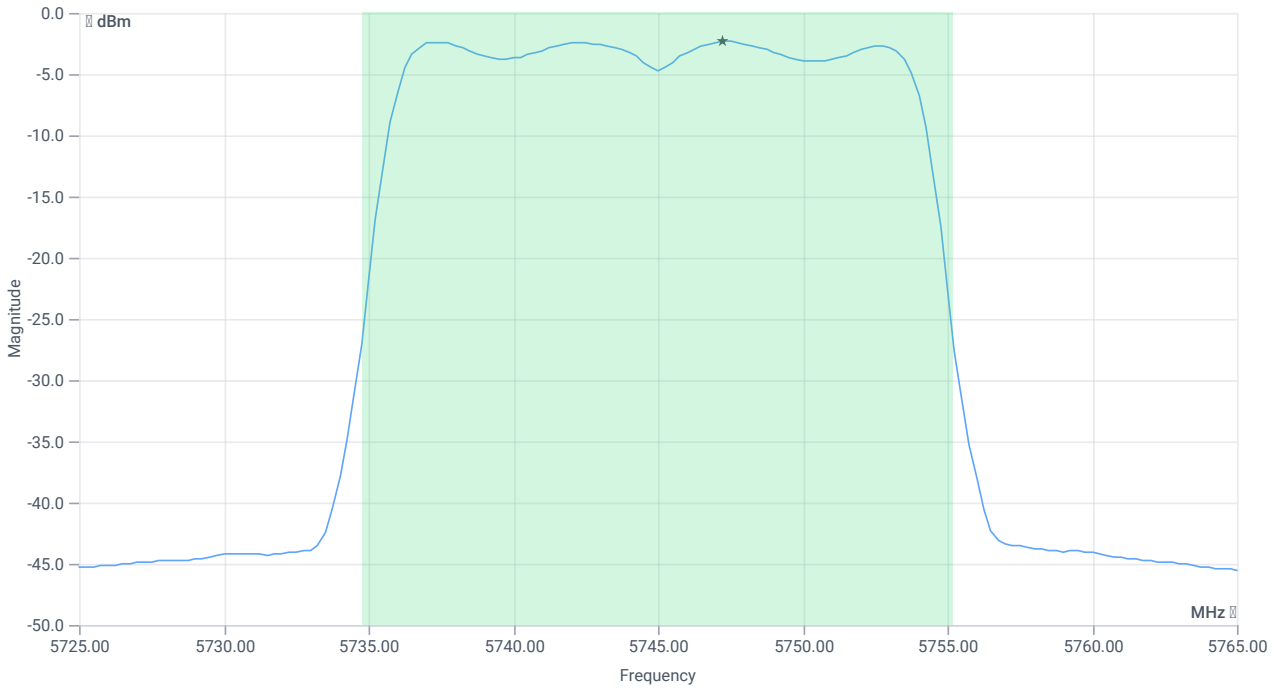
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.44	MHz	INFO
T1 26dB	---	---	5734.7600	MHz	INFO
T2 26dB	---	---	5755.2000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.96 | 9.86 | 25
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	5370 | 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	---	---	9.15	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	9.15	dBm	PASS
LIMIT: 11 dBm + 10 log 20.44					
Max output power DC corrected cond	---	24.1	9.15	dBm	na

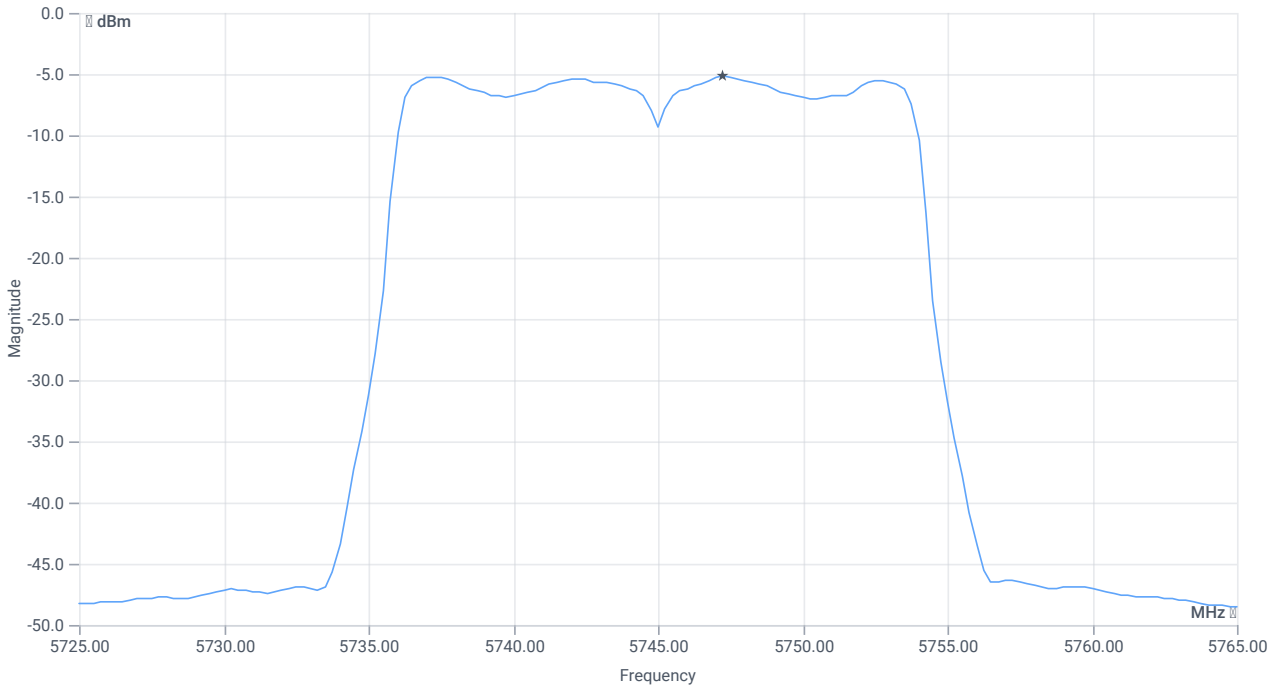
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.96 | 9.86 | 25

READ SA SETTINGS:

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	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-5.09	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-5.09	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	11.04.2024 14:09:57
Ambit temp [°C] | humidity [rel%]	23.0 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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 5745 MHz

RESULT: Reference power cond.

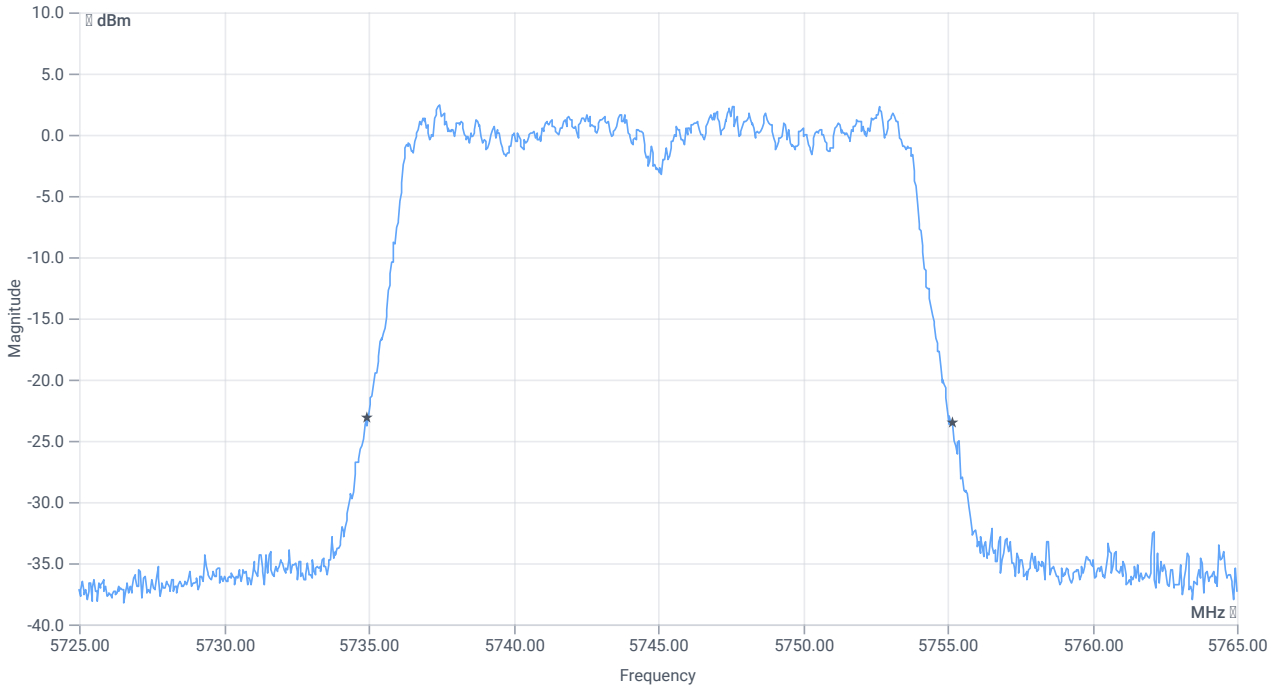
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	7.92	dBm	INFO
Ref. frequency	---	---	5746.800	MHz	INFO

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



BW 26dB

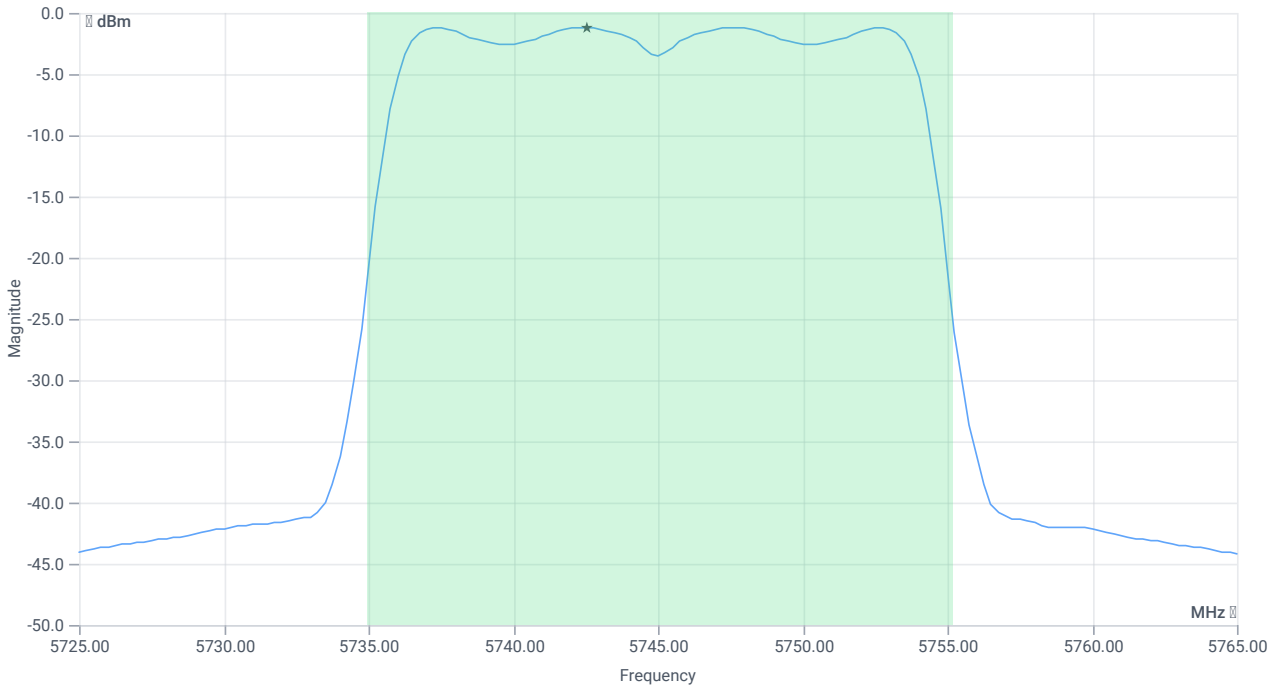
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.28	MHz	INFO
T1 26dB	---	---	5734.9200	MHz	INFO
T2 26dB	---	---	5755.2000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.92 | 9.88 | 25
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	5370 | 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	---	---	10.4	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	10.4	dBm	PASS
LIMIT: 11 dBm + 10 log 20.28					
Max output power DC corrected cond	---	24.07	10.4	dBm	na

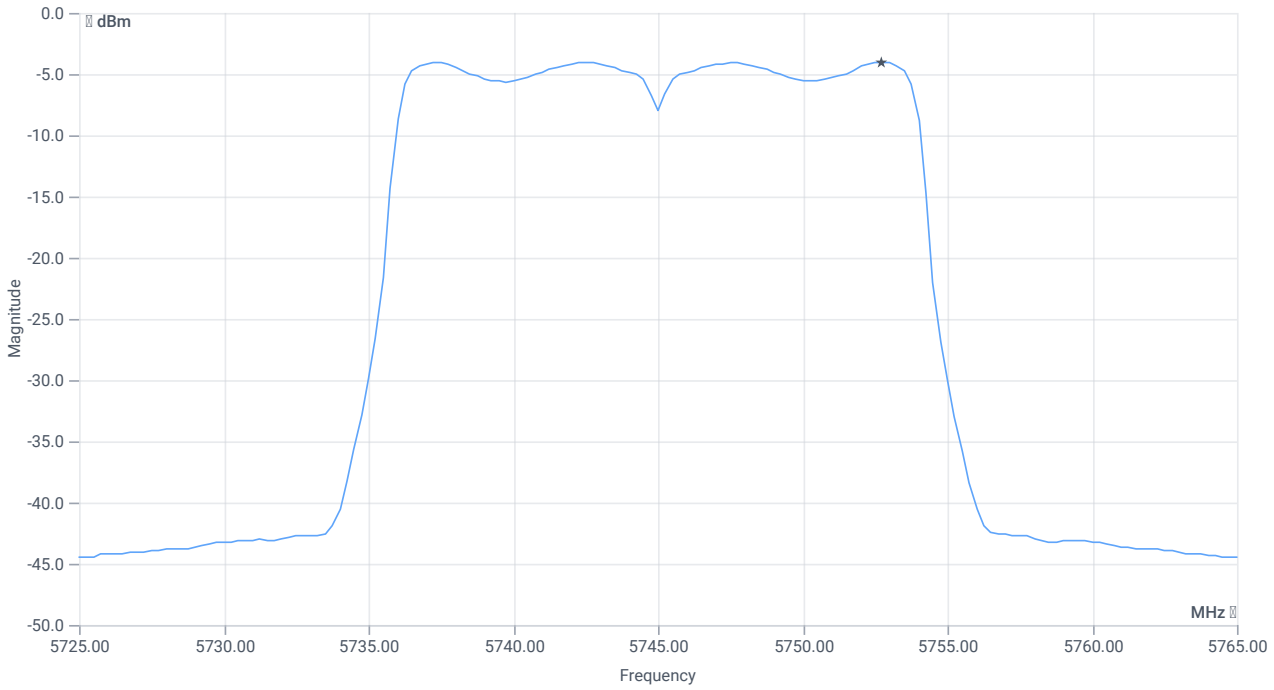
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	19.92 | 9.88 | 30

READ SA SETTINGS:

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	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-4.02	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-4.02	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	11.04.2024 14:11:22
Ambit temp [°C] | humidity [rel%]	22.9 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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 5785 MHz

RESULT: Reference power cond.

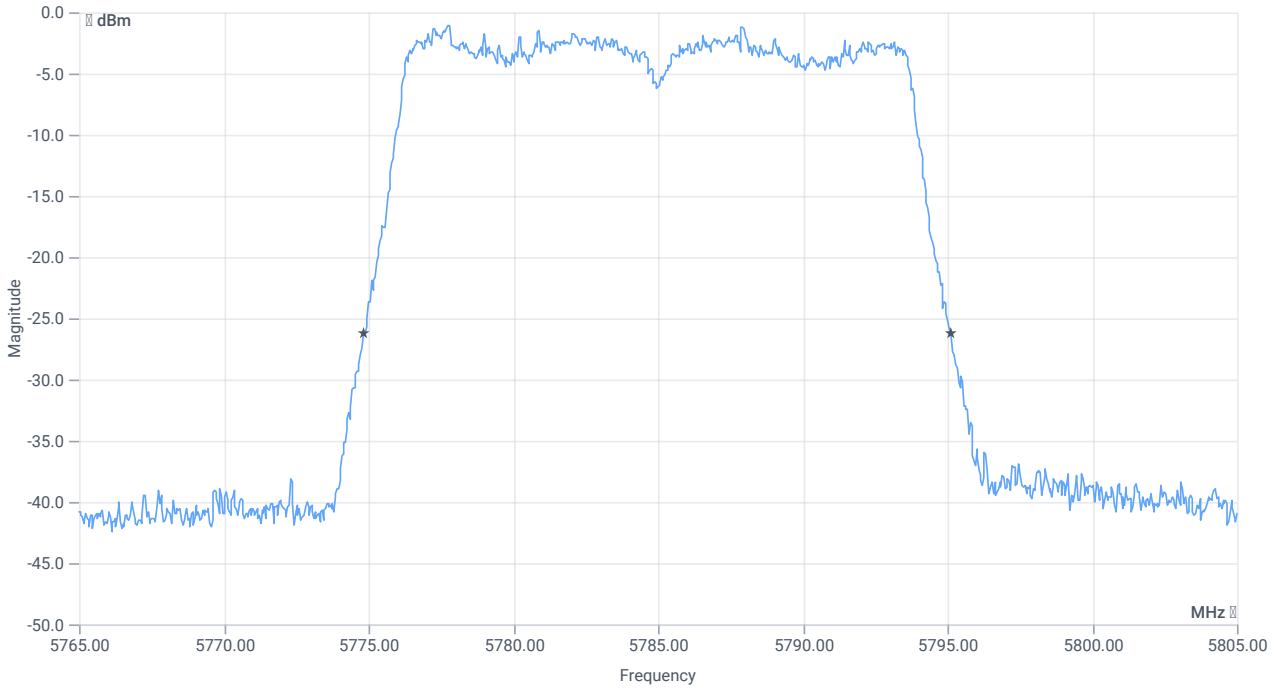
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.07	dBm	INFO
Ref. frequency	---	---	5777.410	MHz	INFO

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



BW 26dB

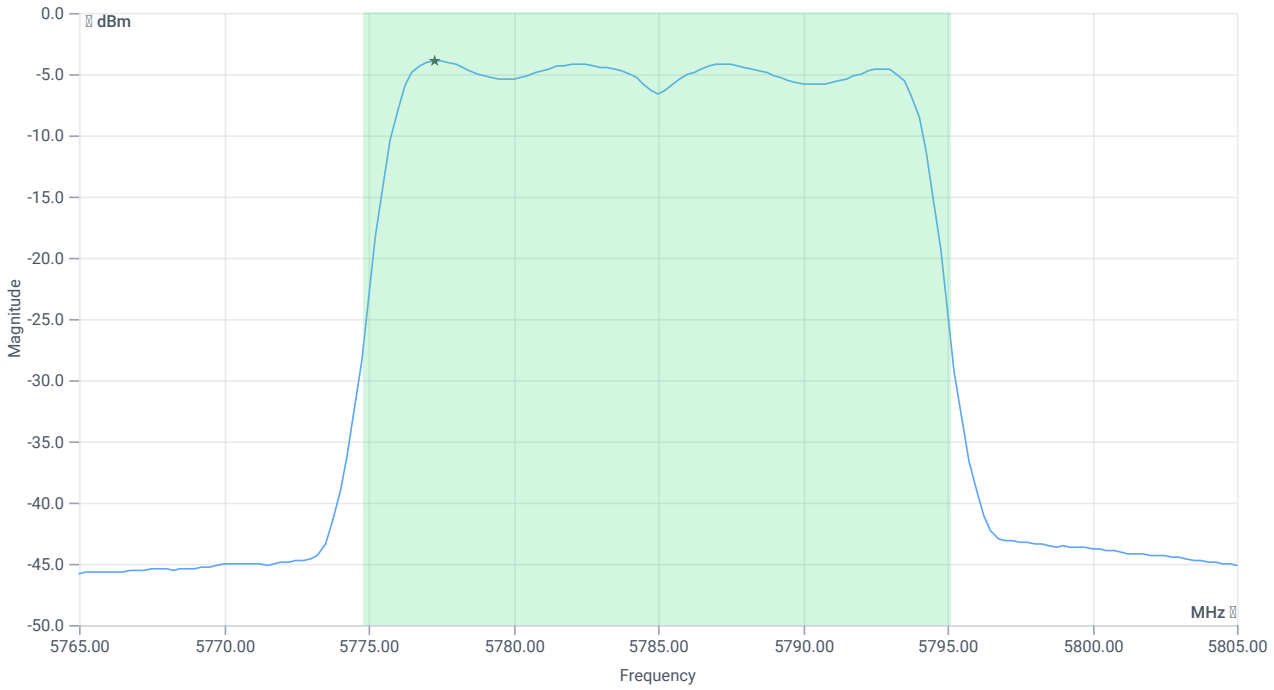
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.32	MHz	INFO
T1 26dB	---	---	5774.8000	MHz	INFO
T2 26dB	---	---	5795.1200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.07 | 9.88 | 25
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	5370 | 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	---	---	7.38	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	7.38	dBm	PASS
LIMIT: 11 dBm + 10 log 20.32					
Max output power DC corrected cond	---	24.08	7.38	dBm	na

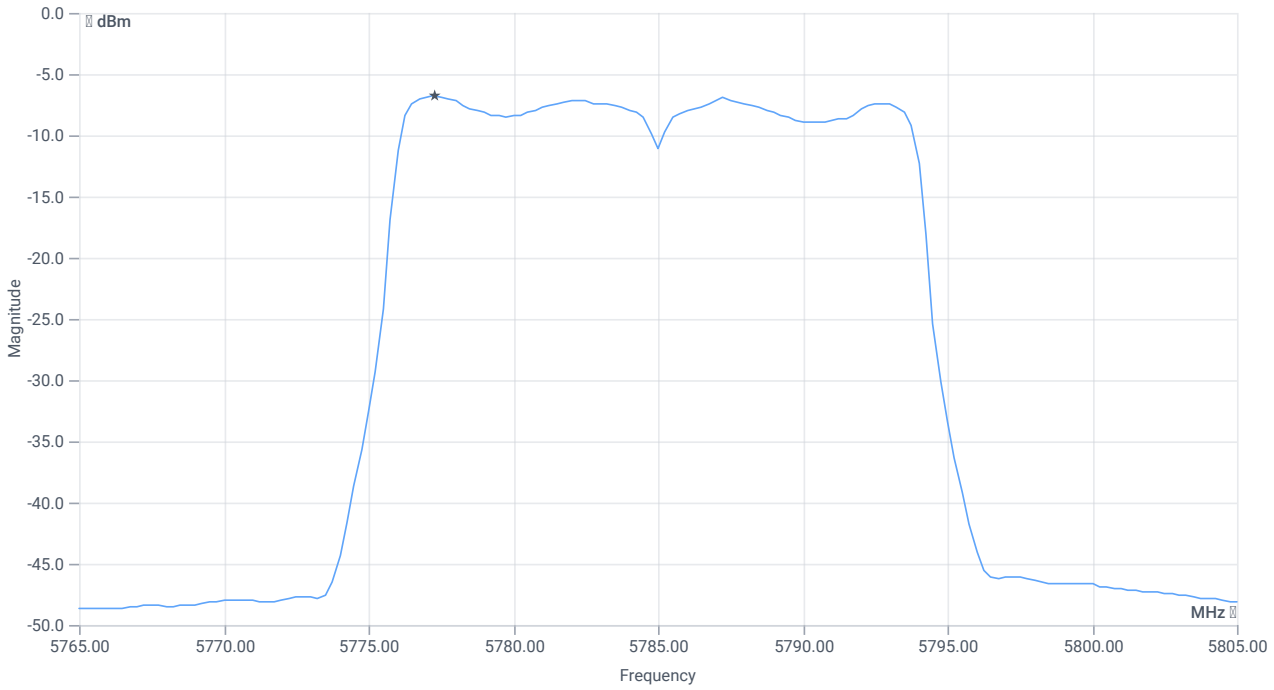
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.07 | 9.88 | 25

READ SA SETTINGS:

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	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-6.8	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-6.8	dBm/0.5MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	11.04.2024 14:12:39
Ambit temp [°C] | humidity [rel%]	22.8 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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 5785 MHz

RESULT: Reference power cond.

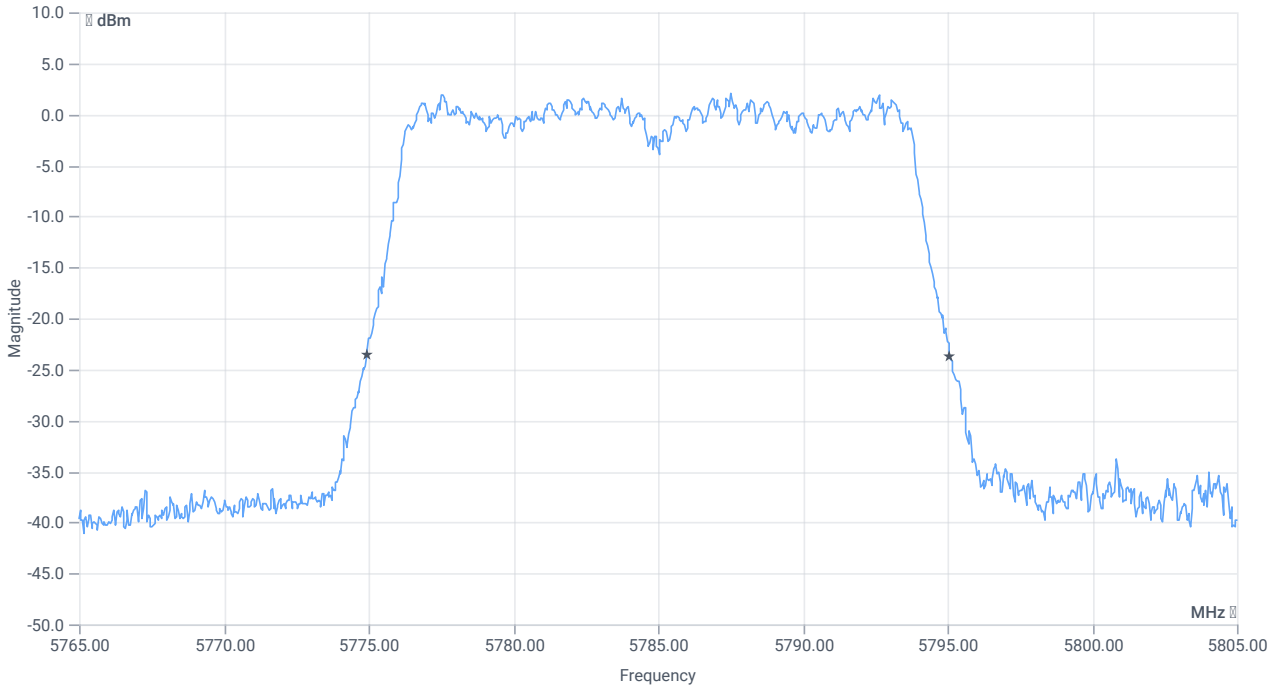
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.47	dBm	INFO
Ref. frequency	---	---	5782.400	MHz	INFO

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



BW 26dB

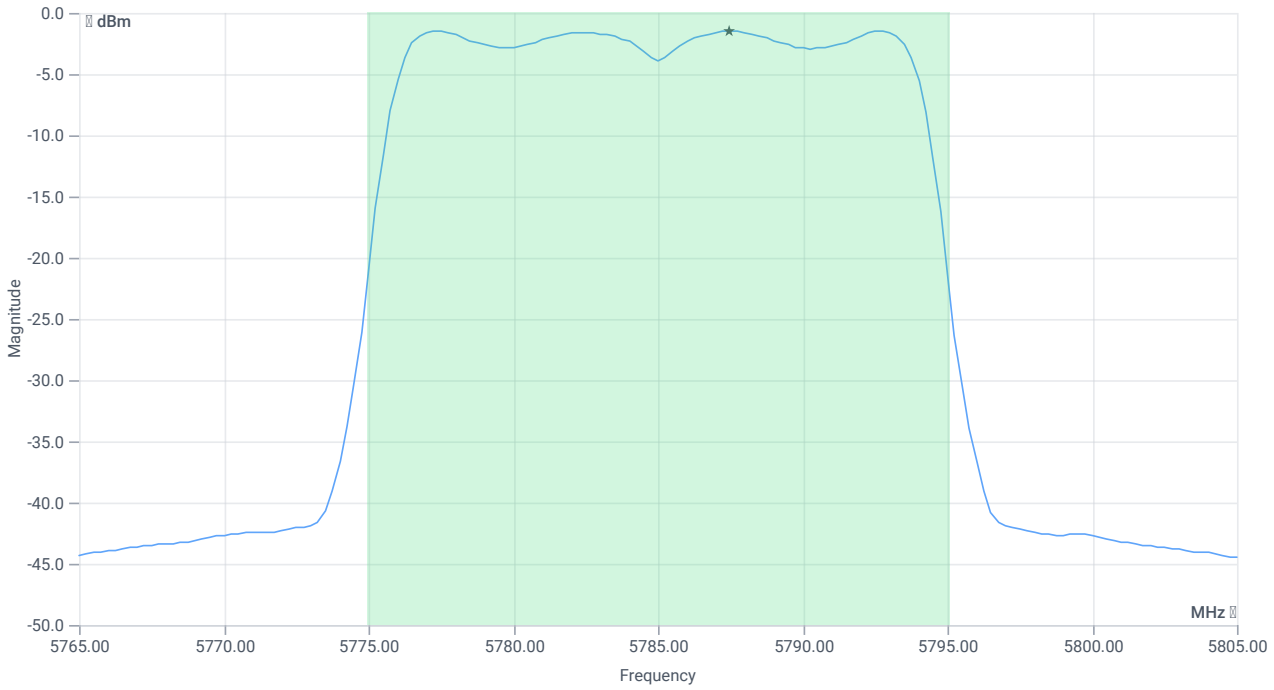
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.16	MHz	INFO
T1 26dB	---	---	5774.9200	MHz	INFO
T2 26dB	---	---	5795.0800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.47 | 9.91 | 25
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	5370 | 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	---	---	10.09	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	10.09	dBm	PASS
LIMIT: 11 dBm + 10 log 20.16					
Max output power DC corrected cond	---	24.04	10.09	dBm	na

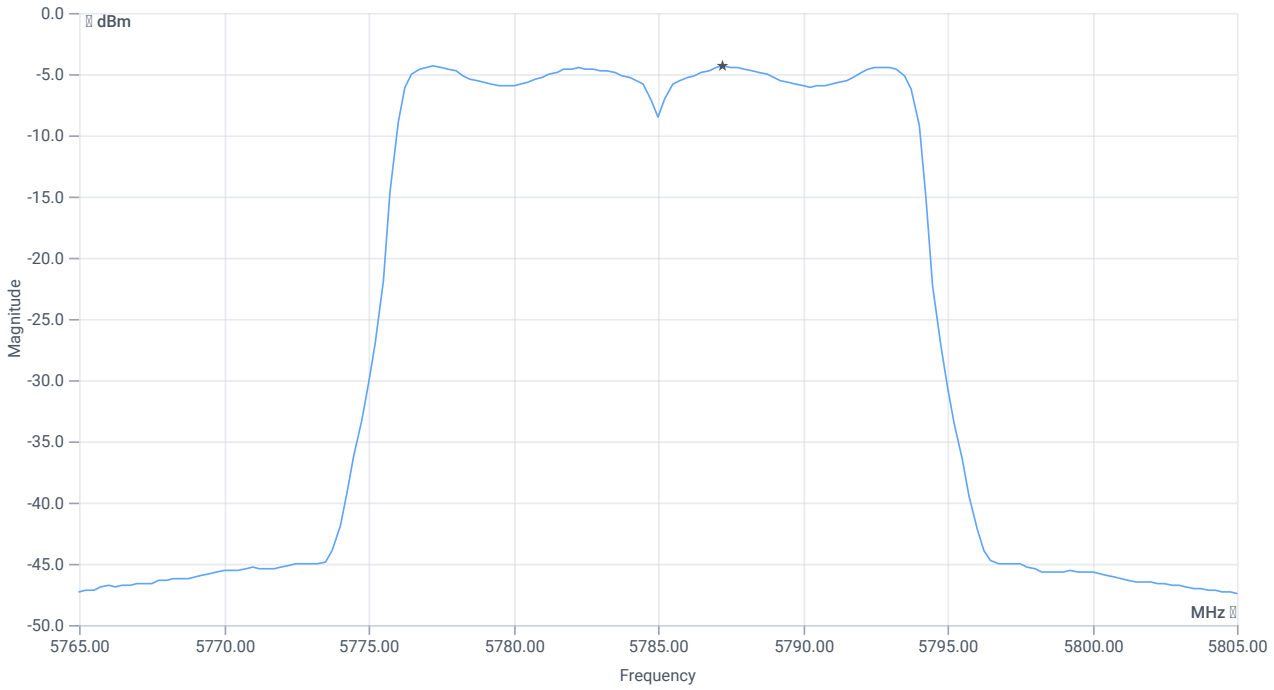
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.47 | 9.91 | 25

READ SA SETTINGS:

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	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-4.37	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-4.37	dBm/0.5MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	11.04.2024 14:14:01
Ambit temp [°C] | humidity [rel%]	22.9 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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 5825 MHz

RESULT: Reference power cond.

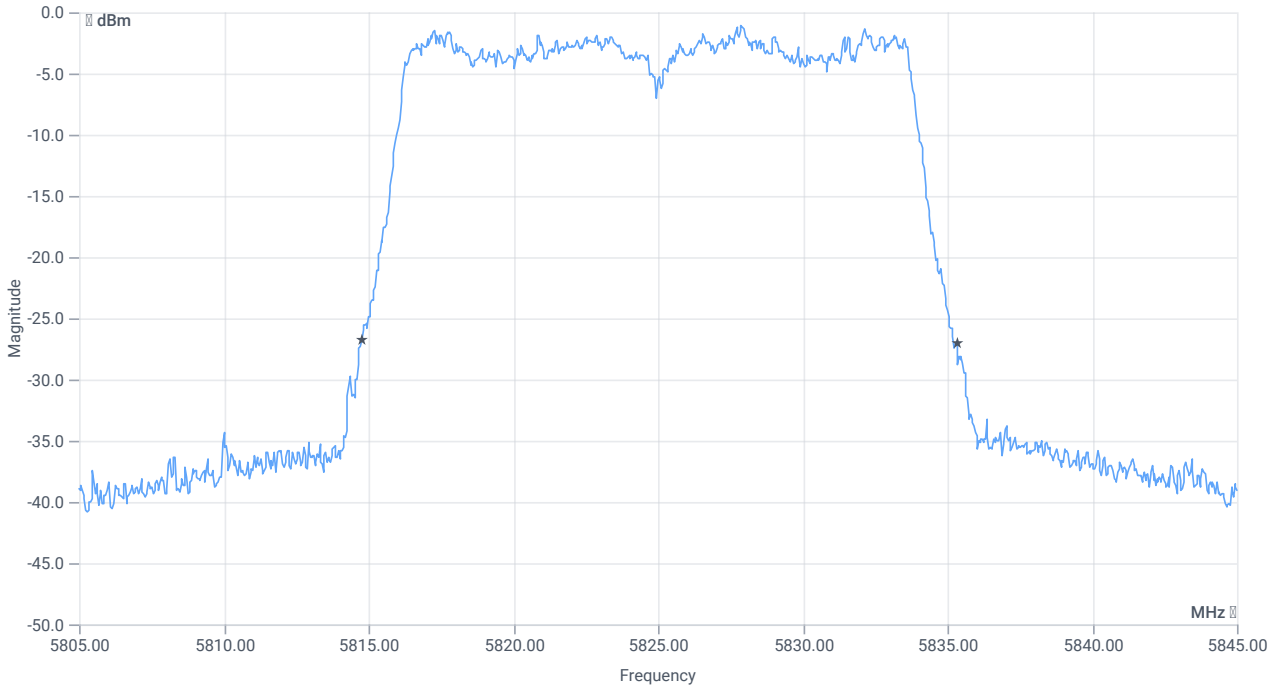
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.60	dBm	INFO
Ref. frequency	---	---	5822.400	MHz	INFO

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



BW 26dB

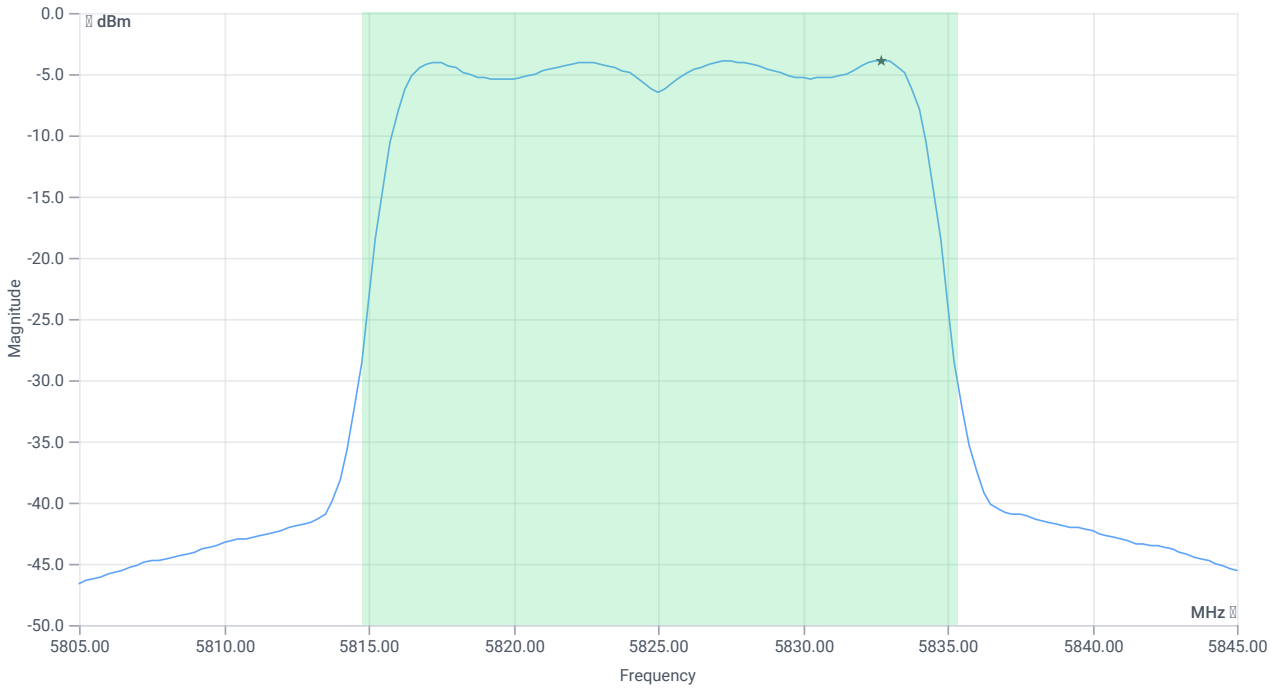
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.56	MHz	INFO
T1 26dB	---	---	5814.7600	MHz	INFO
T2 26dB	---	---	5835.3200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.60 | 9.95 | 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	5370 | 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	---	---	7.55	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	7.55	dBm	PASS
LIMIT: 11 dBm + 10 log 20.56					
Max output power DC corrected cond	---	24.13	7.55	dBm	na

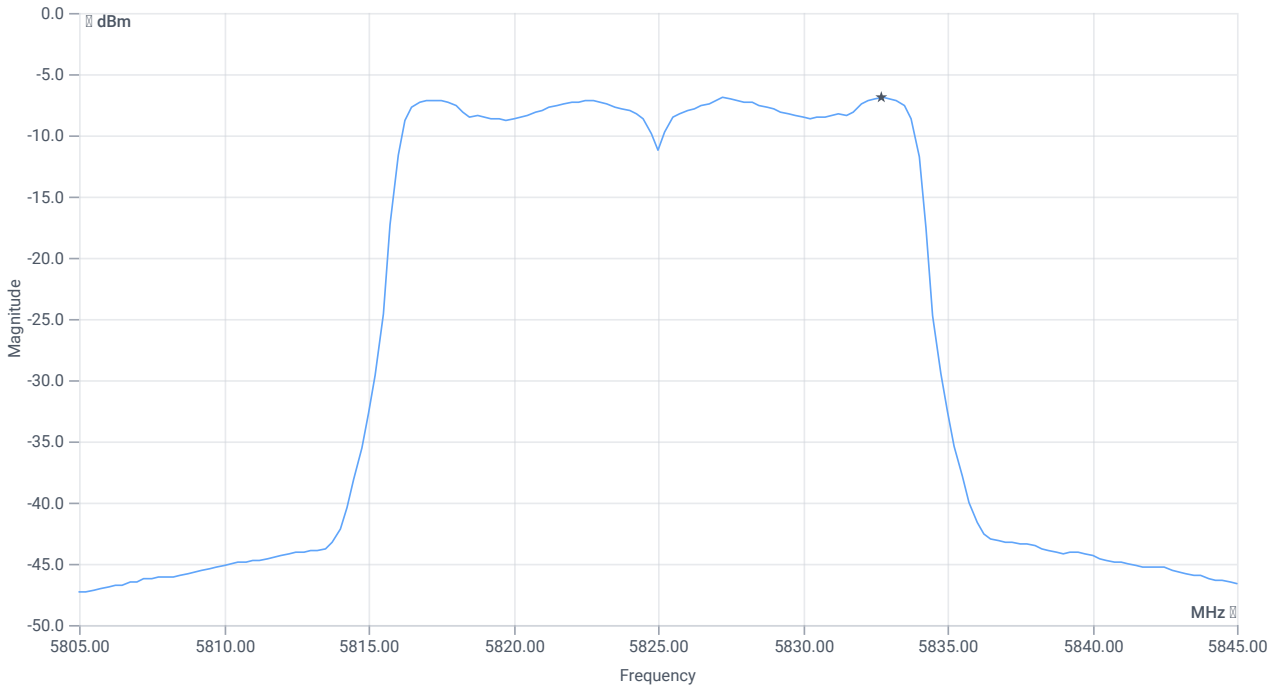
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.60 | 9.95 | 25

READ SA SETTINGS:

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	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-6.92	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-6.92	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	11.04.2024 14:15:25
Ambit temp [°C] | humidity [rel%]	23.1 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT20 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
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 5825 MHz

RESULT: Reference power cond.

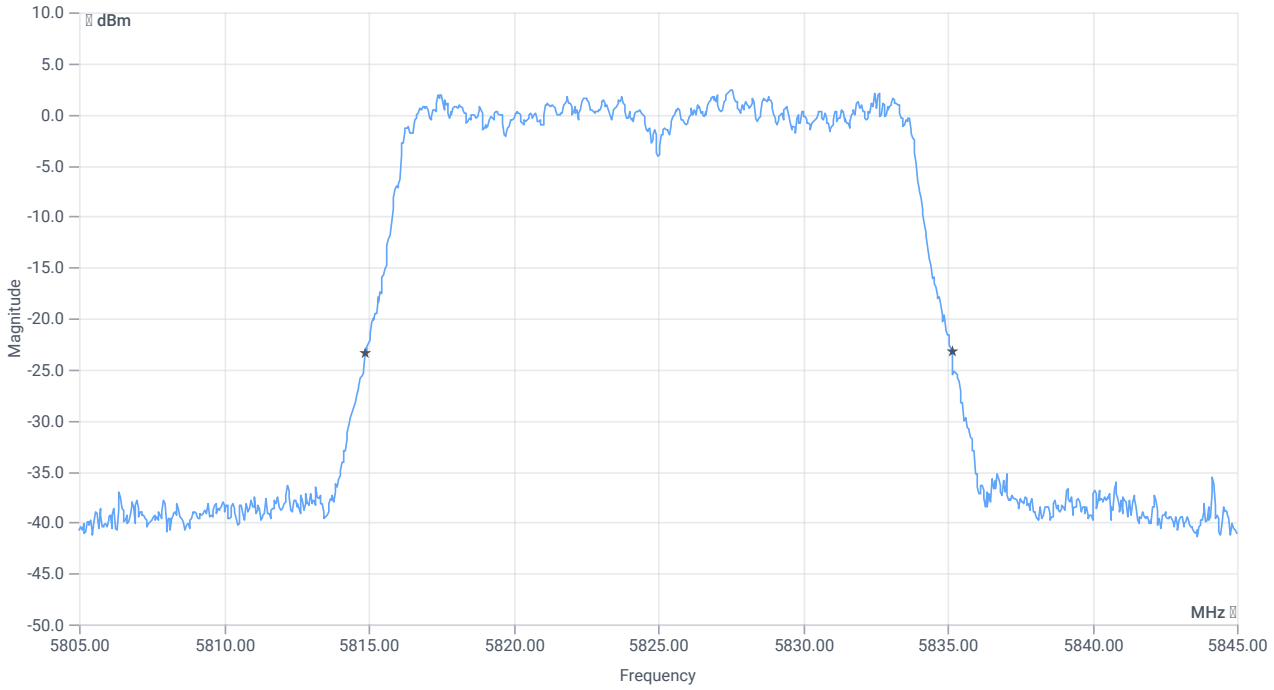
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.88	dBm	INFO
Ref. frequency	---	---	5819.210	MHz	INFO

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



BW 26dB

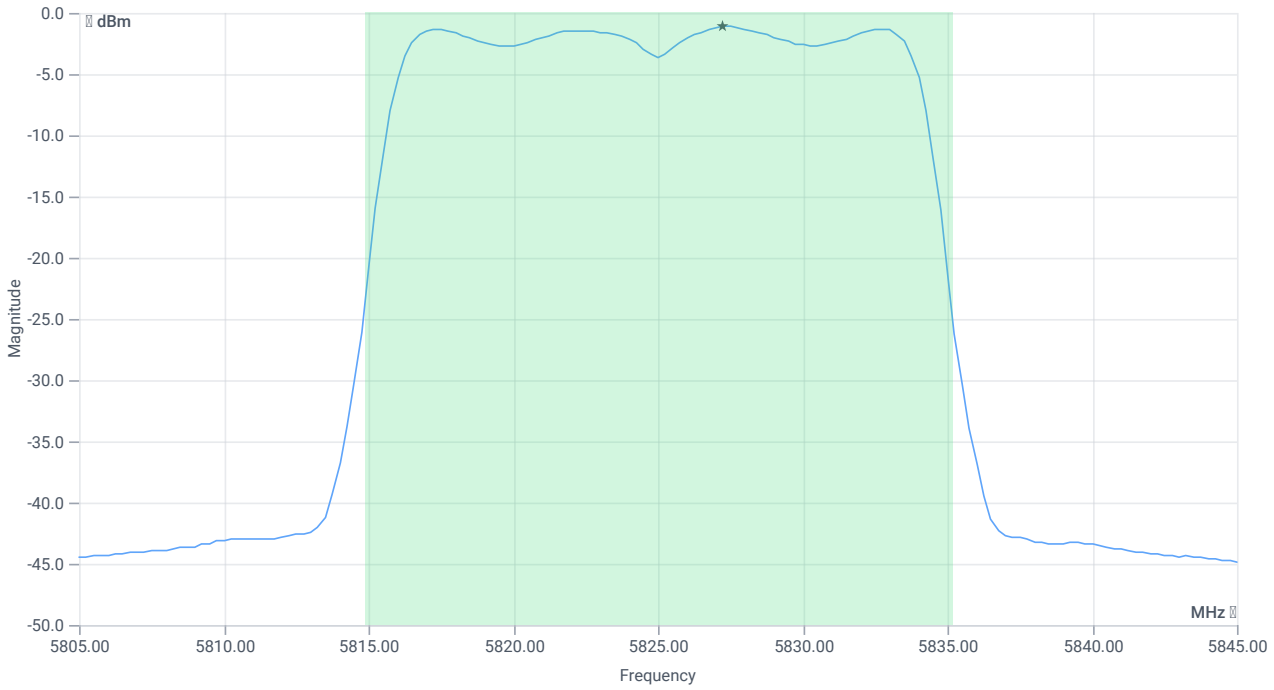
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	20.28	MHz	INFO
T1 26dB	---	---	5814.8800	MHz	INFO
T2 26dB	---	---	5835.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.88 | 9.94 | 25
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	5370 | 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	---	---	10.3	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	10.3	dBm	PASS
LIMIT: 11 dBm + 10 log 20.28					
Max output power DC corrected cond	---	24.07	10.3	dBm	na

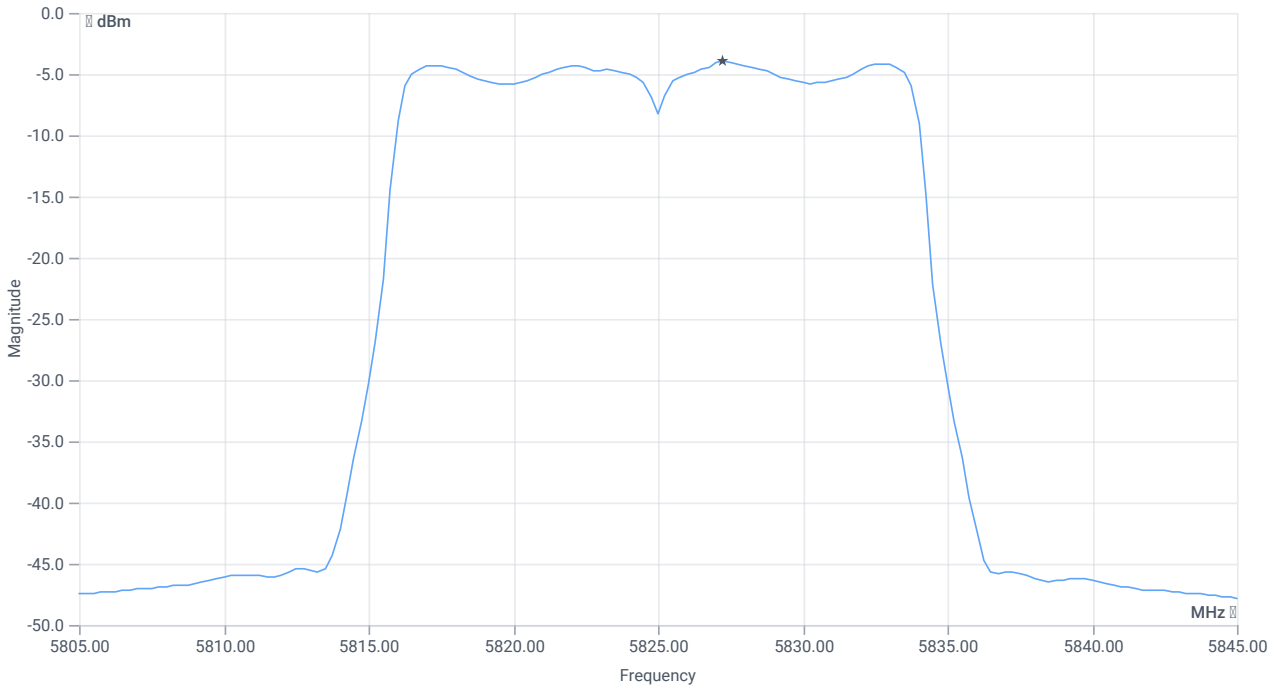
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.88 | 9.94 | 25

READ SA SETTINGS:

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	5370 | 1 | 161 | SWE



PSD UNII-3

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/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-3.92	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-1

References

TC start	11.04.2024 15:24:30
Ambit temp [°C] | humidity [rel%]	23.1 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-1
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5190 MHz

RESULT: Reference power cond.

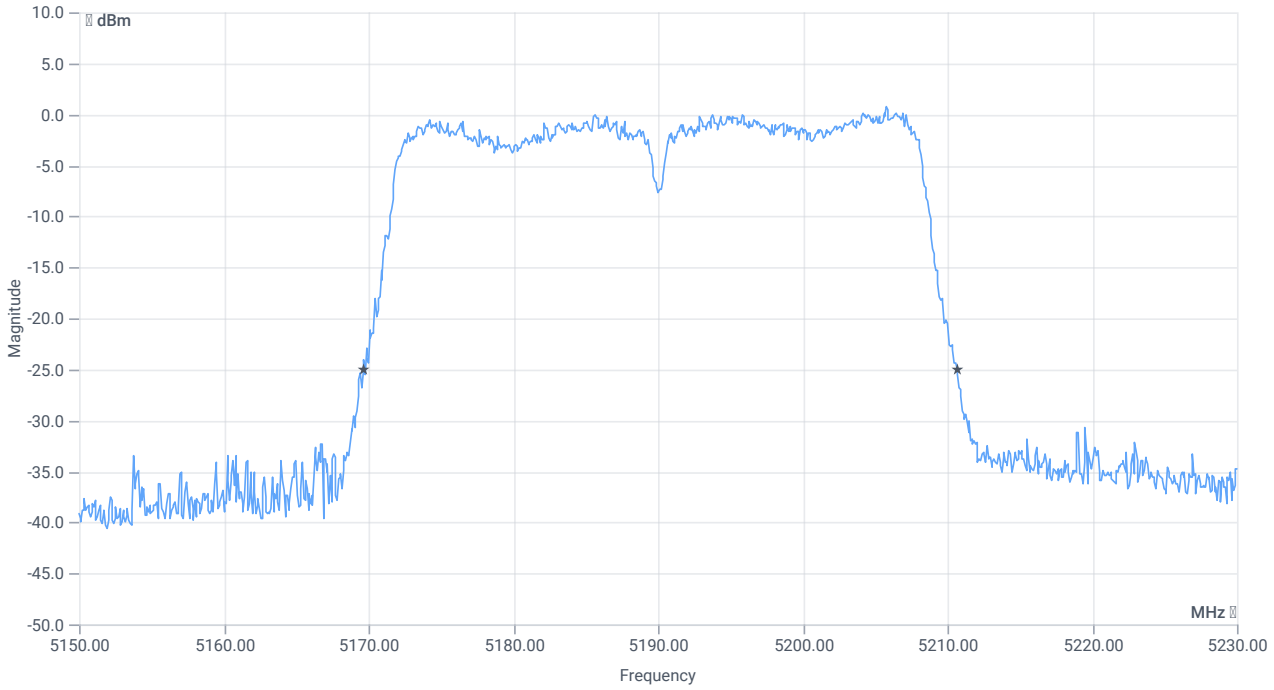
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.08	dBm	INFO
Ref. frequency	---	---	5185.600	MHz	INFO

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



BW 26dB

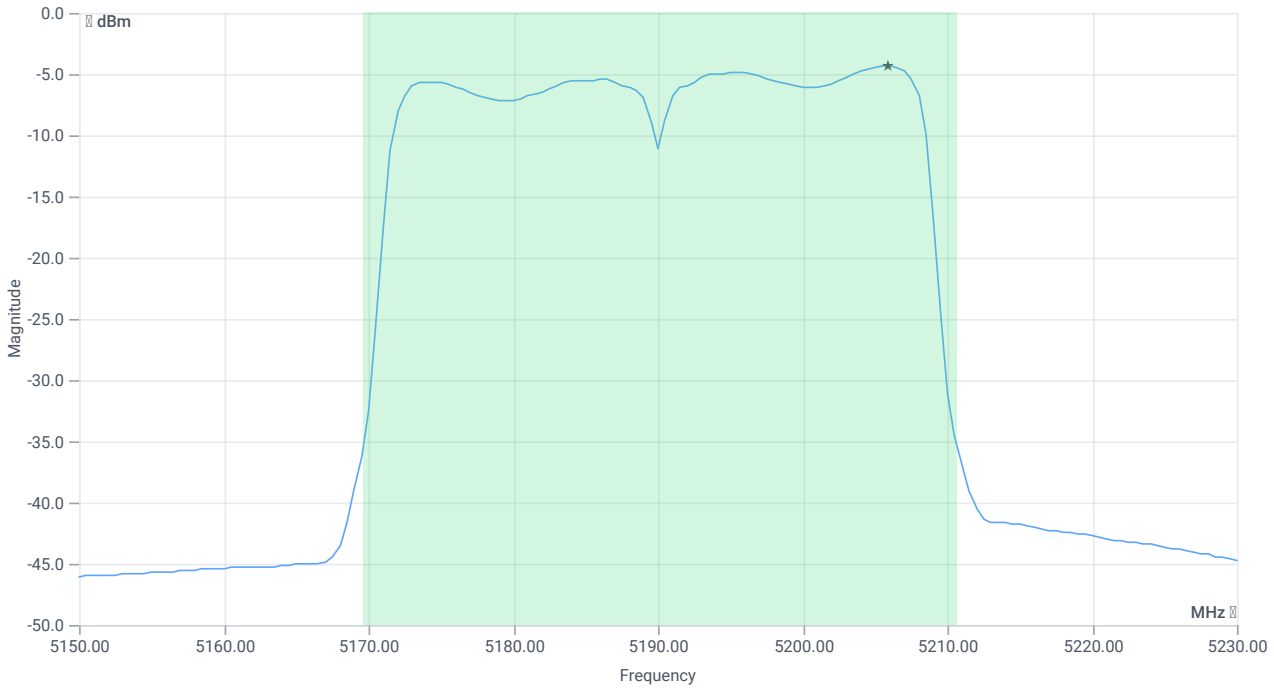
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.04	MHz	INFO
T1 26dB	---	---	5169.6000	MHz	INFO
T2 26dB	---	---	5210.6400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.08 | 9.52 | 25
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	5370 | 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	---	---	9.53	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.53	dBm	PASS
LIMIT: 11 dBm + 10 log 41.04					
Max output power DC corrected cond	---	27.13	9.53	dBm	na

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-4.37	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-4.37	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-1

References

TC start	11.04.2024 15:25:48
Ambit temp [°C] | humidity [rel%]	23.2 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-1
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5190 MHz

RESULT: Reference power cond.

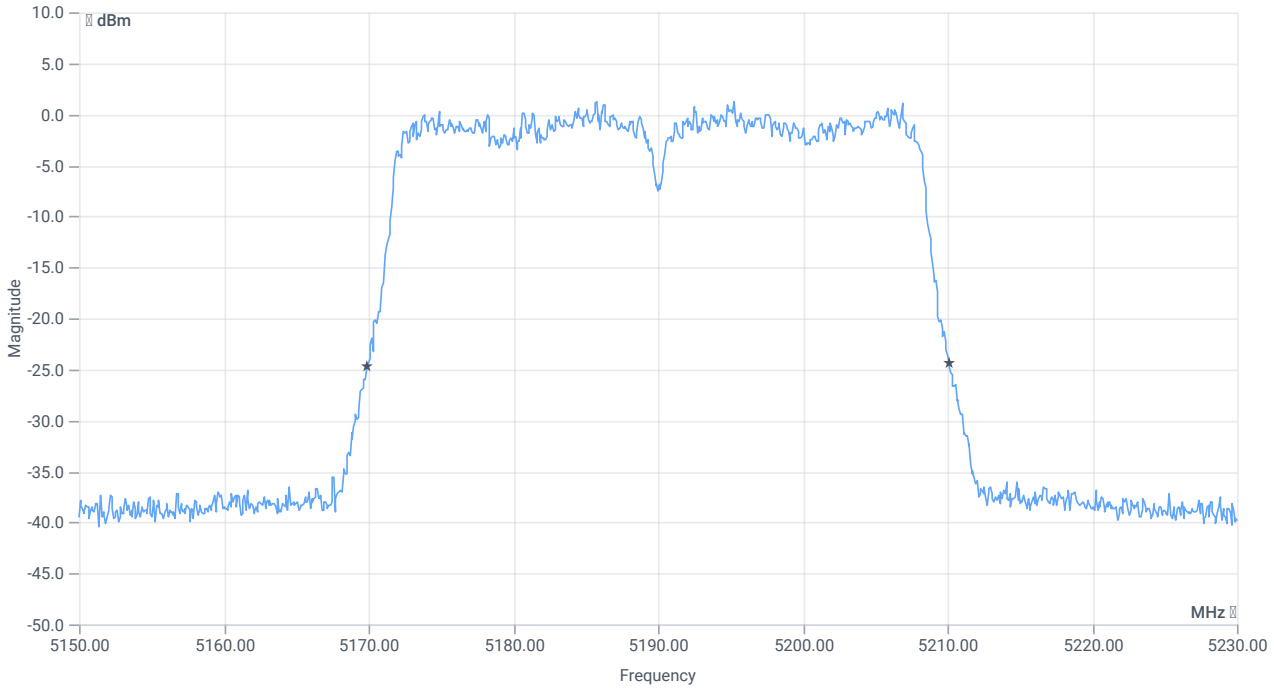
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.77	dBm	INFO
Ref. frequency	---	---	5174.220	MHz	INFO

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



BW 26dB

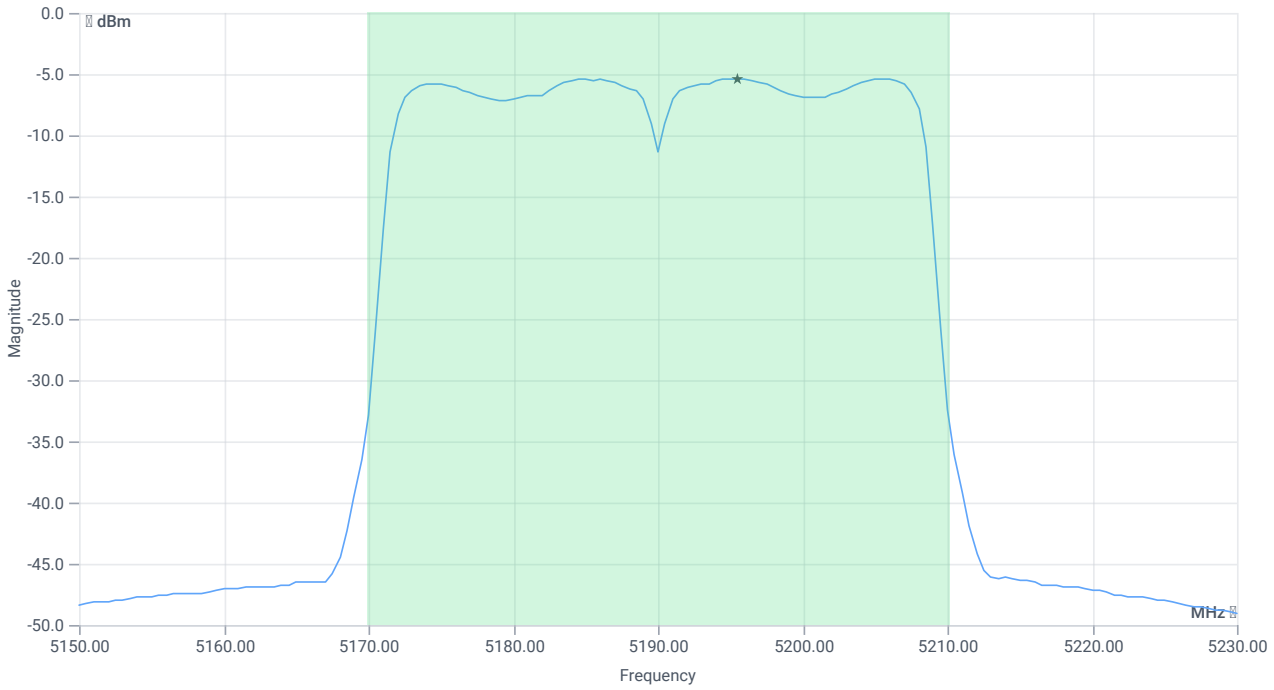
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.16	MHz	INFO
T1 26dB	---	---	5169.9200	MHz	INFO
T2 26dB	---	---	5210.0800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.77 | 9.54 | 20
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	5370 | 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	---	---	9.11	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.11	dBm	PASS
LIMIT: 11 dBm + 10 log 40.16					
Max output power DC corrected cond	---	27.04	9.11	dBm	na

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-5.39	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.39	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-1

References

TC start	11.04.2024 15:27:13
Ambit temp [°C] | humidity [rel%]	23.2 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-1
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5230 MHz

RESULT: Reference power cond.

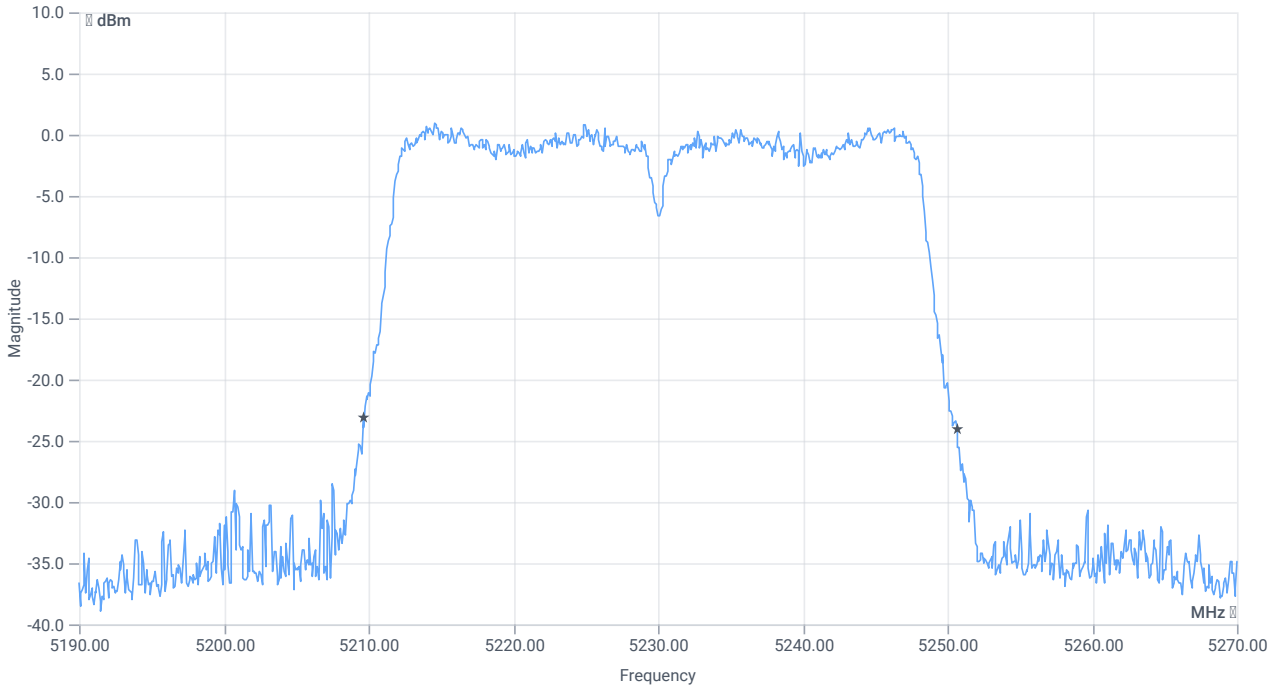
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.64	dBm	INFO
Ref. frequency	---	---	5214.020	MHz	INFO

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



BW 26dB

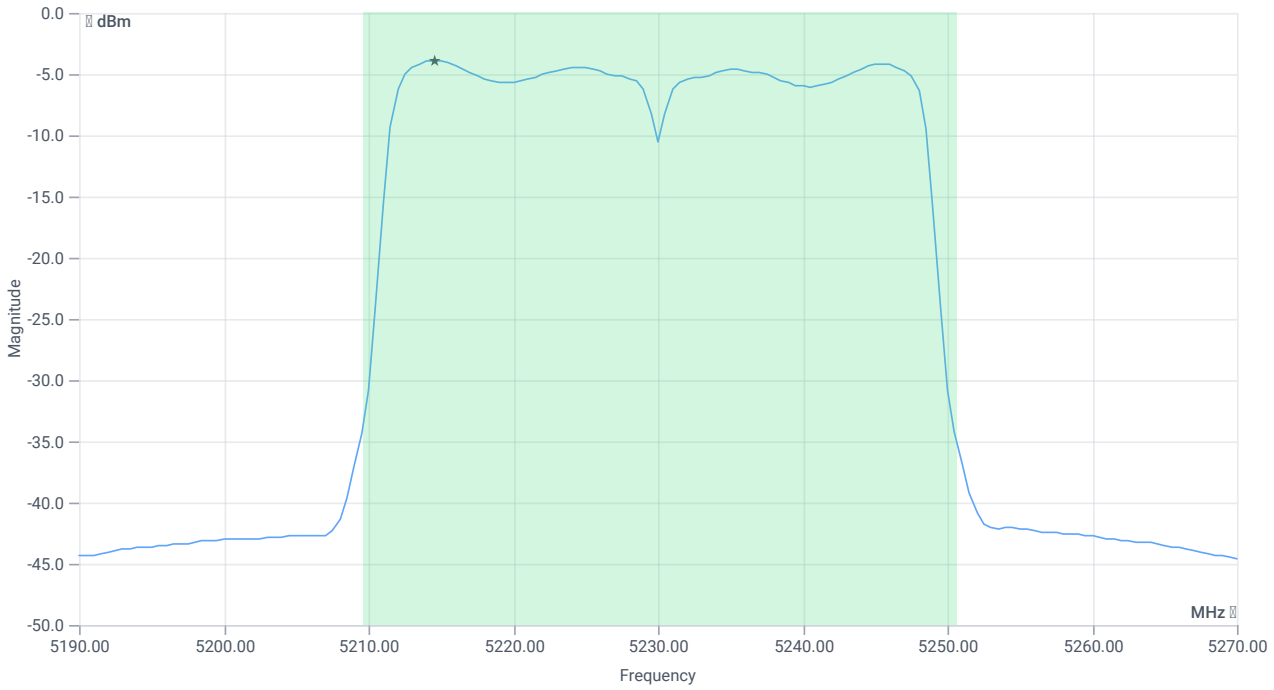
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.04	MHz	INFO
T1 26dB	---	---	5209.6000	MHz	INFO
T2 26dB	---	---	5250.6400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.64 | 9.45 | 25
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	5370 | 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	---	---	10.26	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.26	dBm	PASS
LIMIT: 11 dBm + 10 log 41.04					
Max output power DC corrected cond	---	27.13	10.26	dBm	na

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-3.89	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-3.89	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-1

References

TC start	11.04.2024 15:28:32
Ambit temp [°C] | humidity [rel%]	23.1 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-1
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 mode
EUT port	EUT2
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
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 5230 MHz

RESULT: Reference power cond.

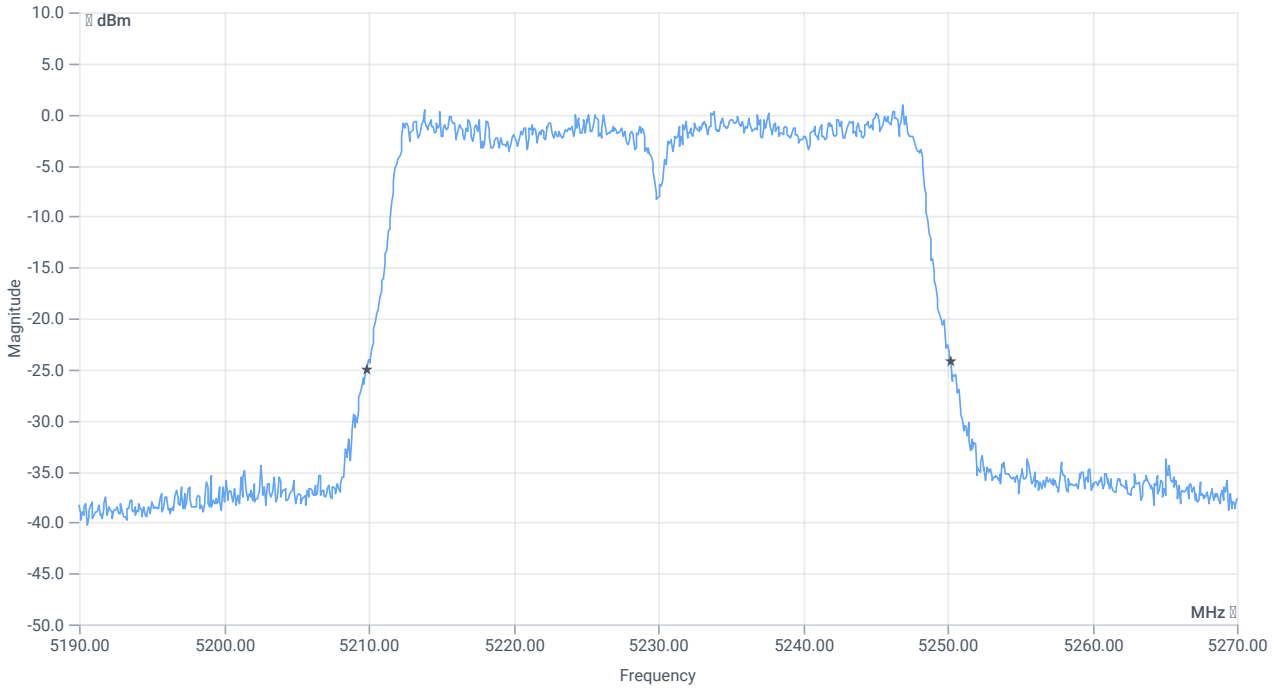
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.90	dBm	INFO
Ref. frequency	---	---	5214.020	MHz	INFO

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



BW 26dB

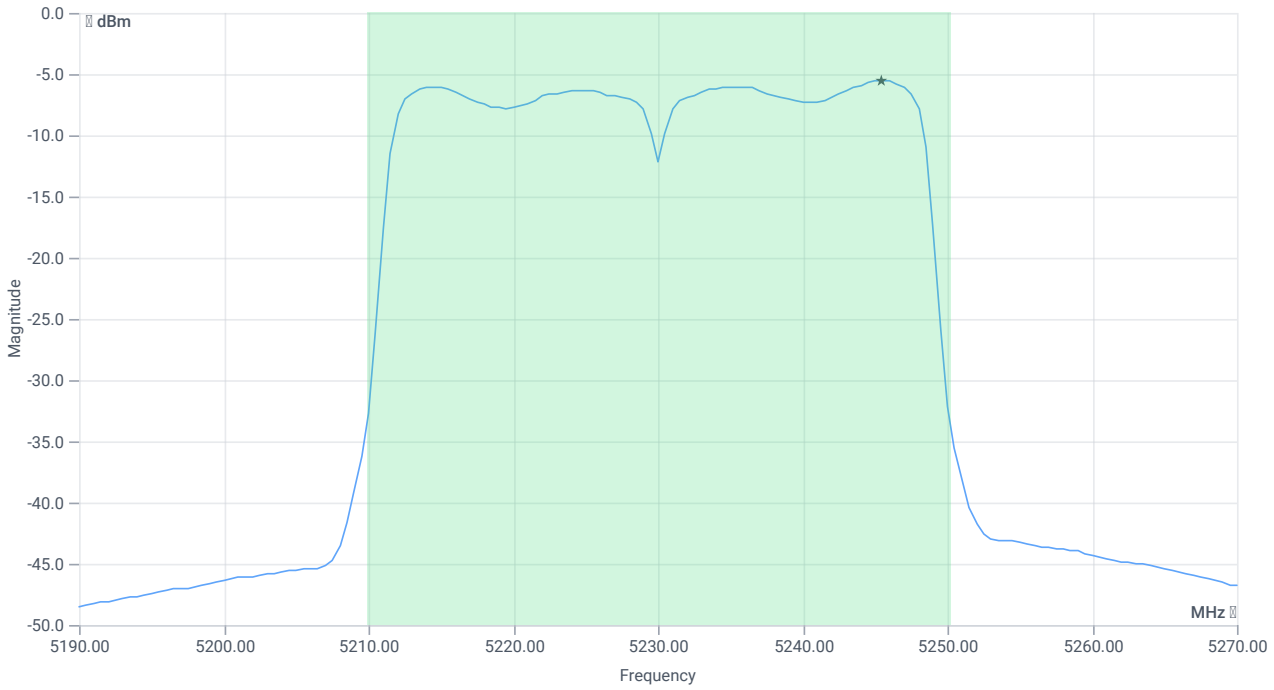
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.4	MHz	INFO
T1 26dB	---	---	5209.8400	MHz	INFO
T2 26dB	---	---	5250.2400	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.90 | 9.47 | 20
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	5370 | 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	---	---	8.6	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	8.6	dBm	PASS
LIMIT: 11 dBm + 10 log 40.4					
Max output power DC corrected cond	---	27.06	8.6	dBm	na

Power spectral density

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI					
Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-5.52	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.52	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2A

References

TC start	11.04.2024 15:29:55
Ambit temp [°C] | humidity [rel%]	23.0 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

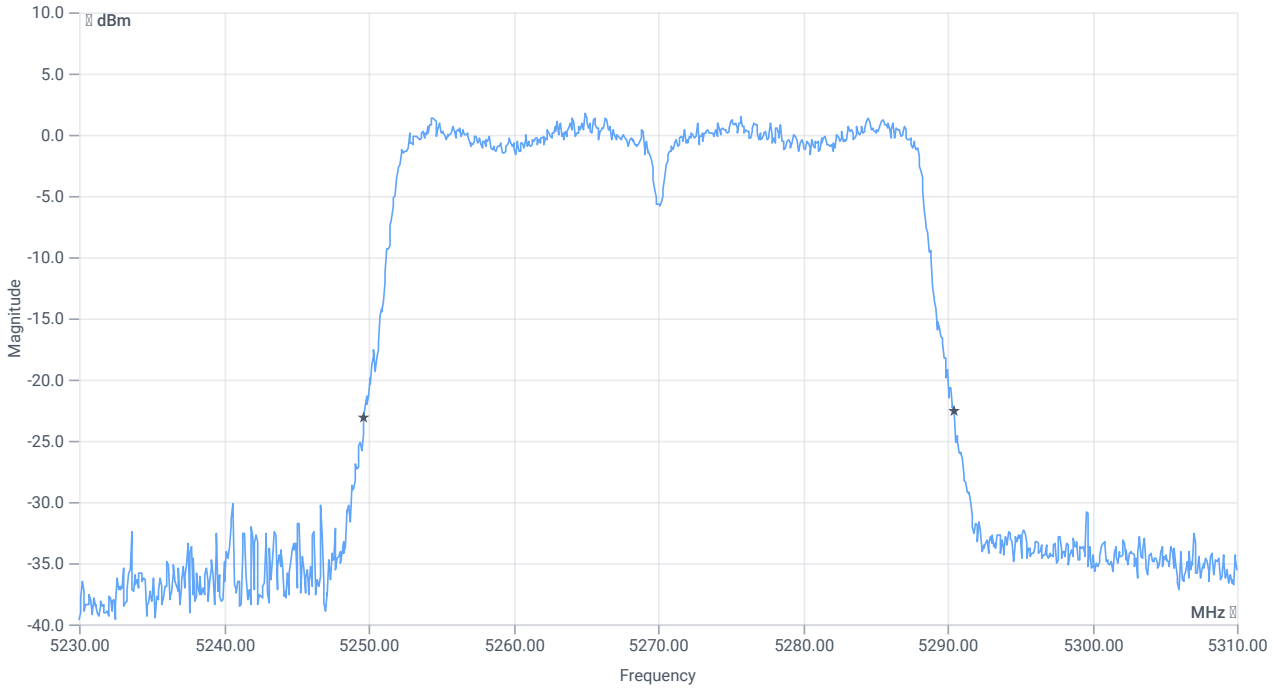
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.31	dBm	INFO
Ref. frequency	---	---	5254.420	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.8	MHz	INFO
T1 26dB	---	---	5249.6800	MHz	INFO
T2 26dB	---	---	5290.4800	MHz	INFO

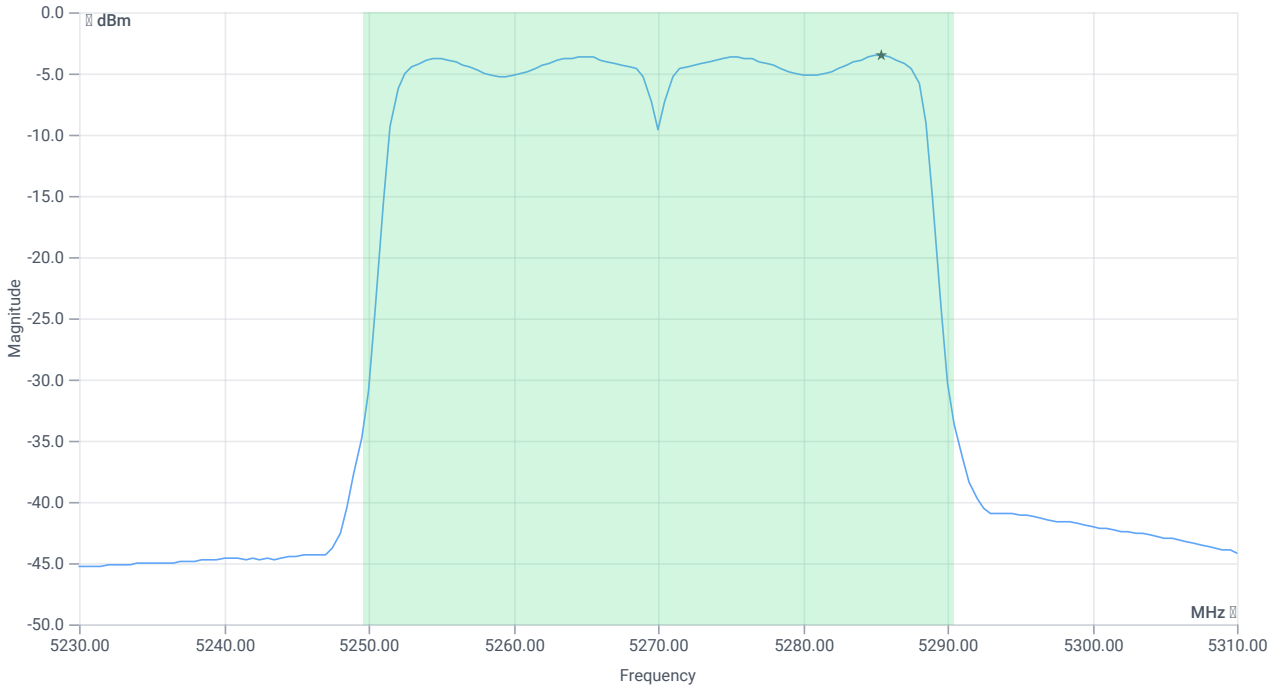
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5270 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.31 | 9.41 | 25
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	5370 | 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	---	---	10.93	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.93	dBm	PASS
LIMIT: 11 dBm + 10 log 40.8					
Max output power DC corrected cond	---	27.11	10.93	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	15.43	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	---	---	-3.52	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-3.52	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2A

References

TC start	11.04.2024 15:31:15
Ambit temp [°C] | humidity [rel%]	22.9 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

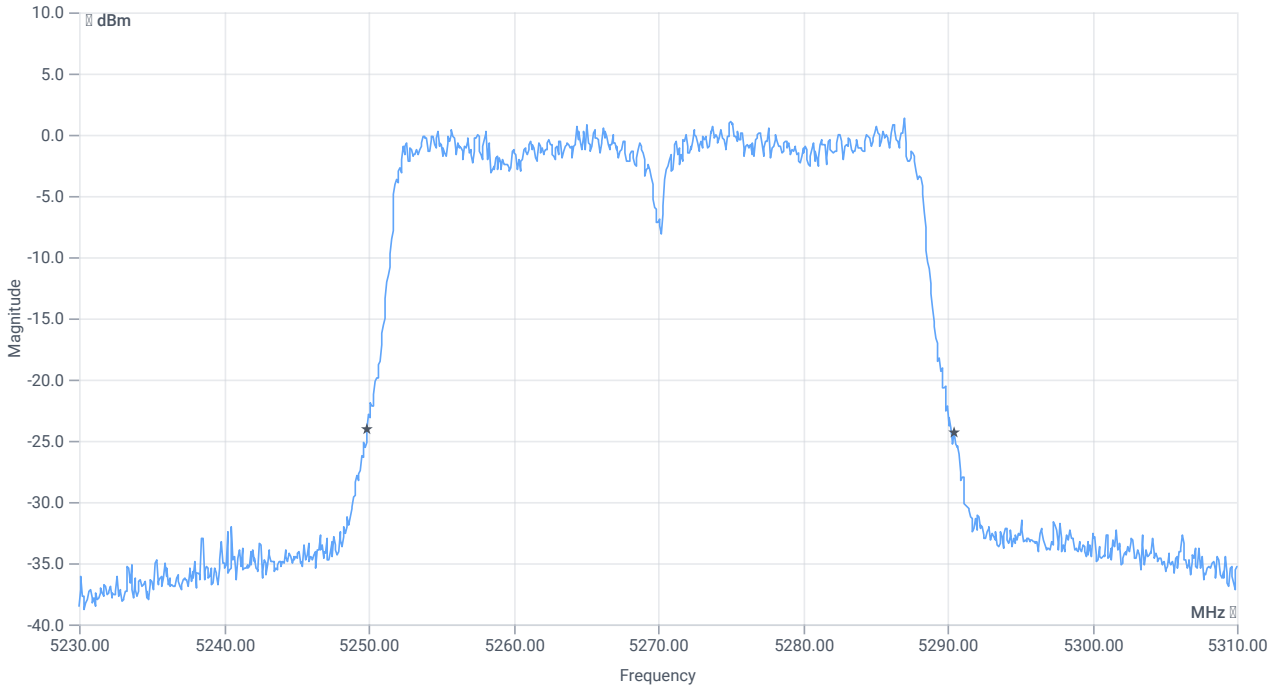
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.95	dBm	INFO
Ref. frequency	---	---	5274.000	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.56	MHz	INFO
T1 26dB	---	---	5249.9200	MHz	INFO
T2 26dB	---	---	5290.4800	MHz	INFO

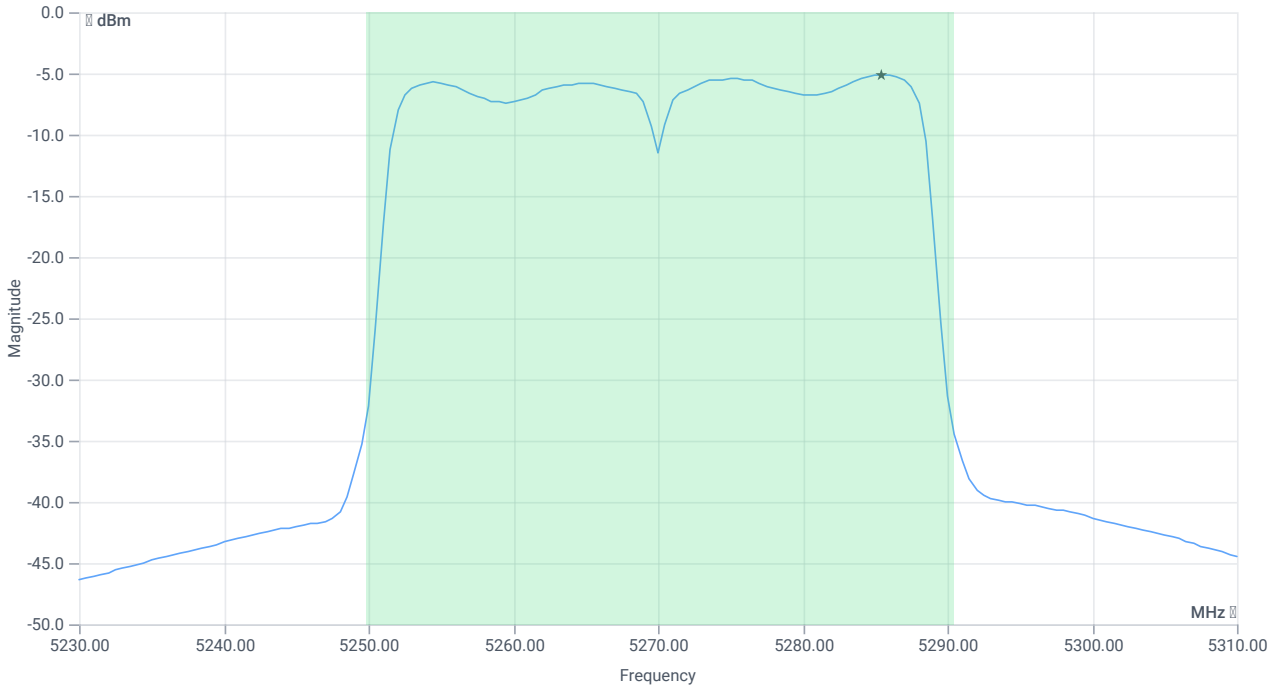
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5270 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.95 | 9.41 | 20
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	5370 | 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	---	---	9.09	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.09	dBm	PASS
LIMIT: 11 dBm + 10 log 40.56					
Max output power DC corrected cond	---	27.08	9.09	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	13.59	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	---	---	-5.08	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.08	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2A

References

TC start	11.04.2024 15:32:42
Ambit temp [°C] | humidity [rel%]	22.9 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

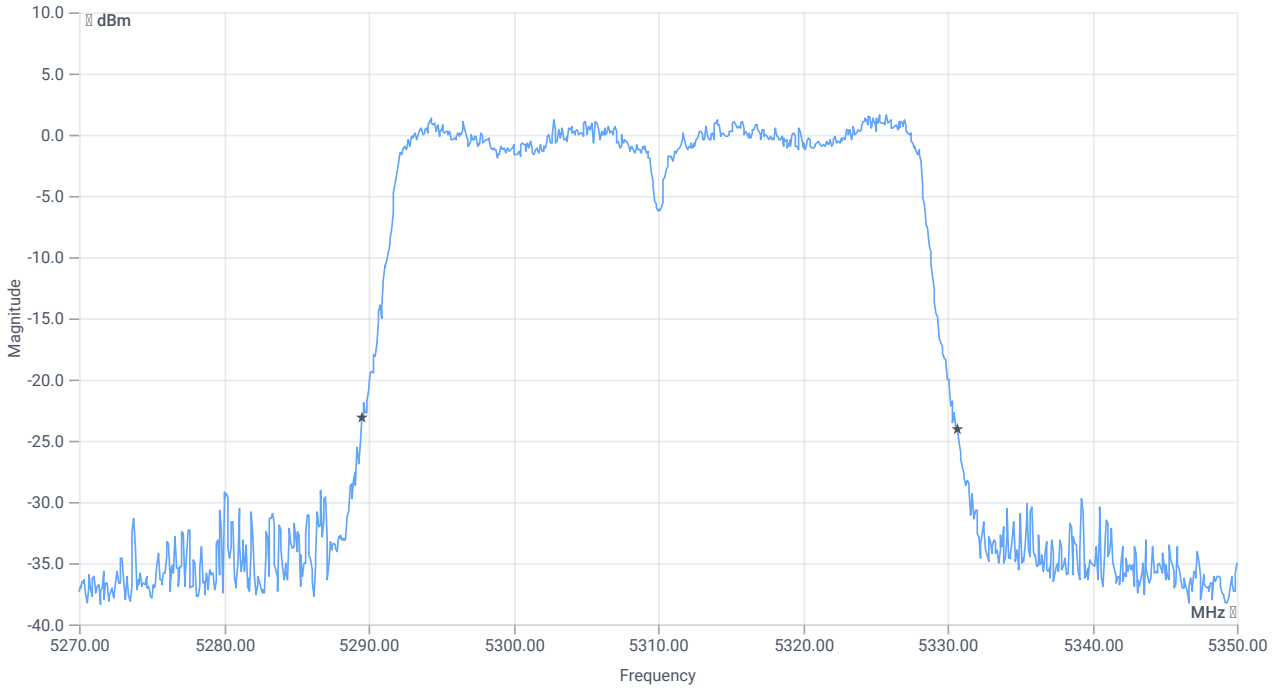
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.80	dBm	INFO
Ref. frequency	---	---	5324.990	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.2	MHz	INFO
T1 26dB	---	---	5289.5200	MHz	INFO
T2 26dB	---	---	5330.7200	MHz	INFO

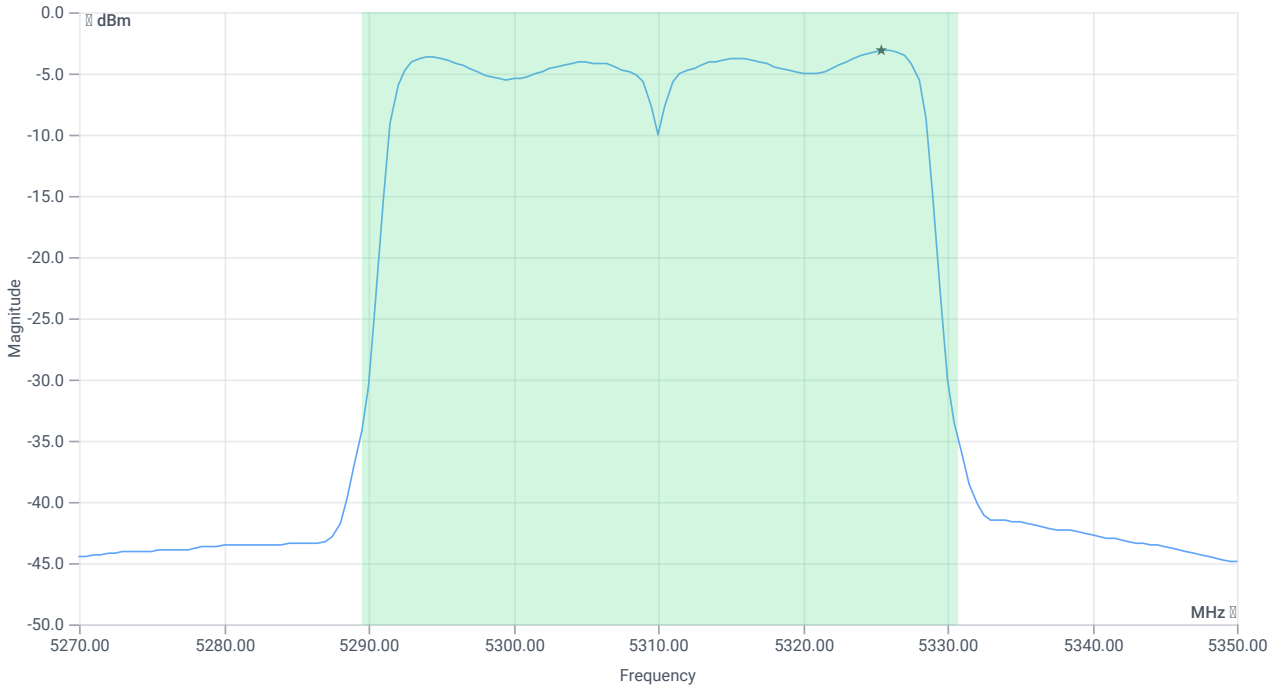
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5310 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.80 | 9.46 | 25
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	5370 | 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	---	---	10.88	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.88	dBm	PASS
LIMIT: 11 dBm + 10 log 41.2					
Max output power DC corrected cond	---	27.15	10.88	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	15.38	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	---	---	-3.16	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-3.16	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2A

References

TC start	11.04.2024 15:34:00
Ambit temp [°C] | humidity [rel%]	22.8 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

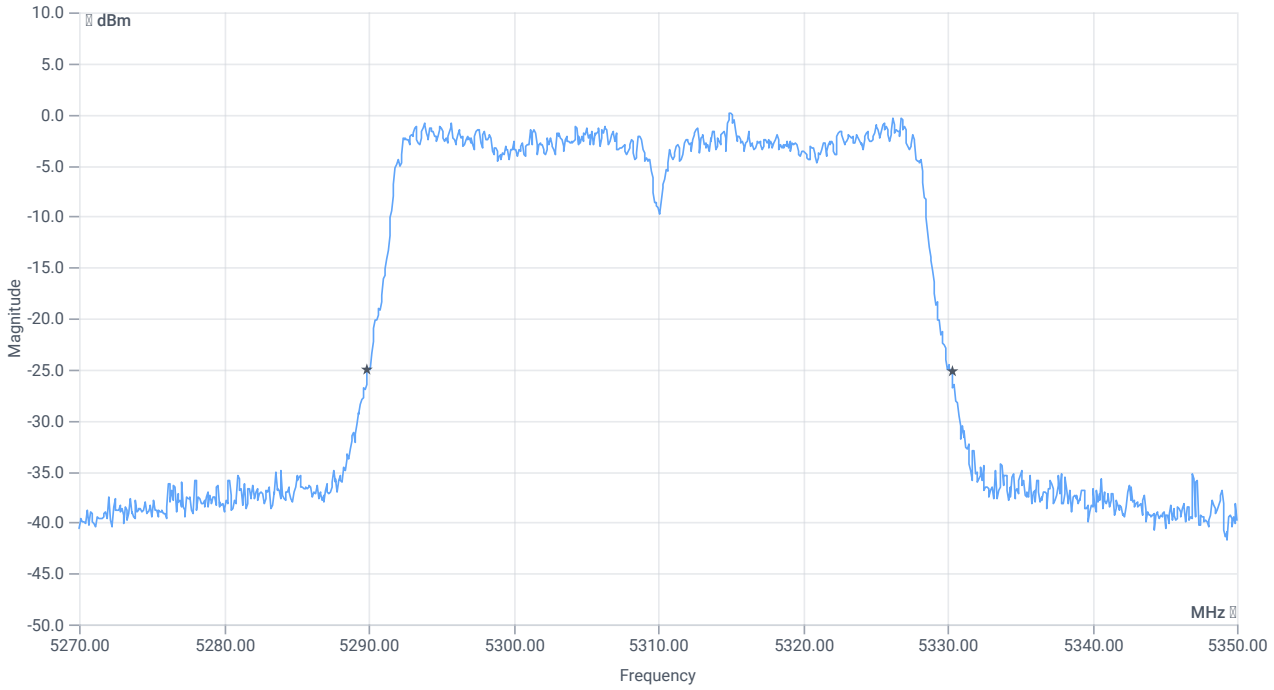
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.39	dBm	INFO
Ref. frequency	---	---	5293.420	MHz	INFO

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



BW 26dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.4	MHz	INFO
T1 26dB	---	---	5289.9200	MHz	INFO
T2 26dB	---	---	5330.3200	MHz	INFO

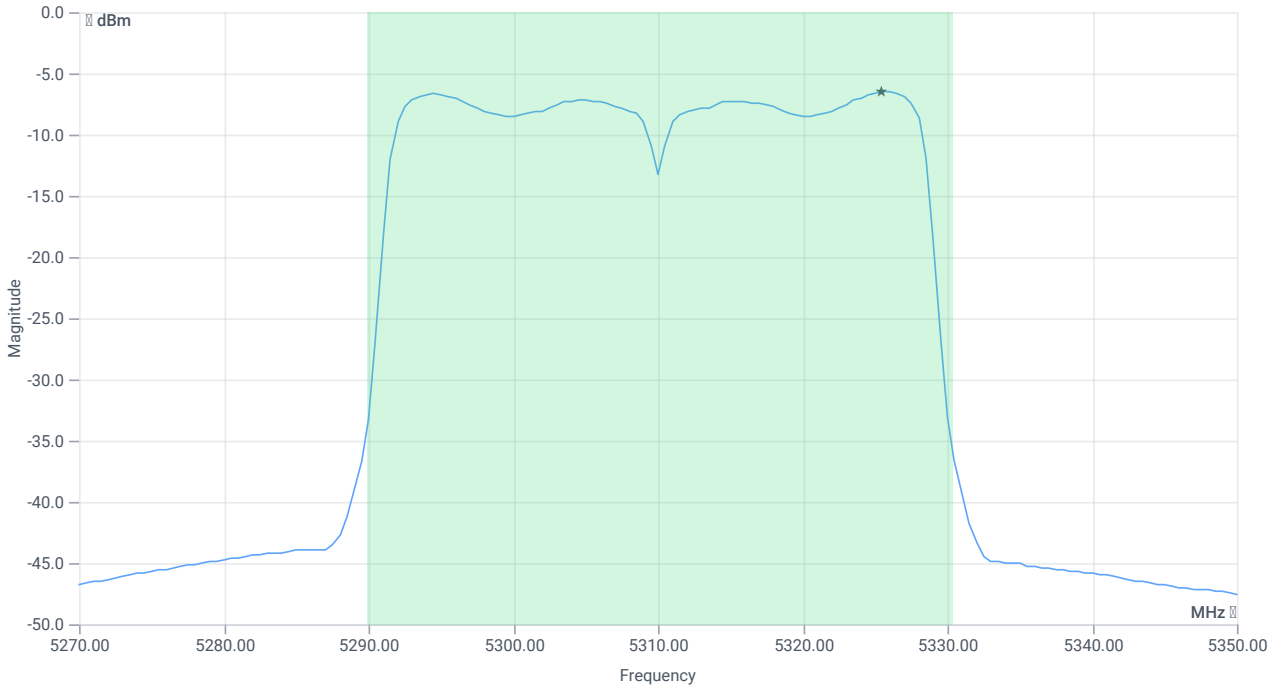
Maximum Output Power

Antenna gain

Considered antenna gain [dBi]:	4.5 @ 5310 MHz

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.39 | 9.45 | 20
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	5370 | 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	---	---	7.64	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	7.64	dBm	PASS
LIMIT: 11 dBm + 10 log 40.4					
Max output power DC corrected cond	---	27.06	7.64	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	12.14	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	---	---	-6.51	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-6.51	dBm/1MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2C

References

TC start	11.04.2024 15:35:26
Ambit temp [°C] | humidity [rel%]	22.8 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

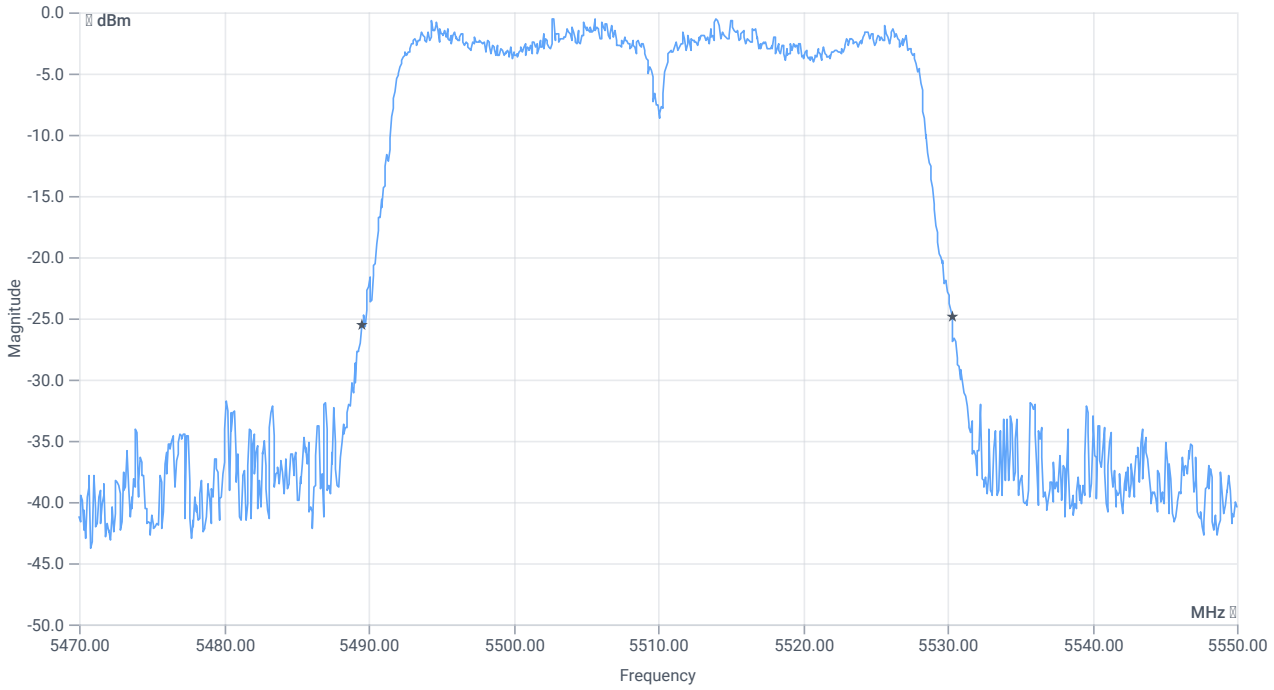
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.98	dBm	INFO
Ref. frequency	---	---	5505.200	MHz	INFO

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



BW 26dB

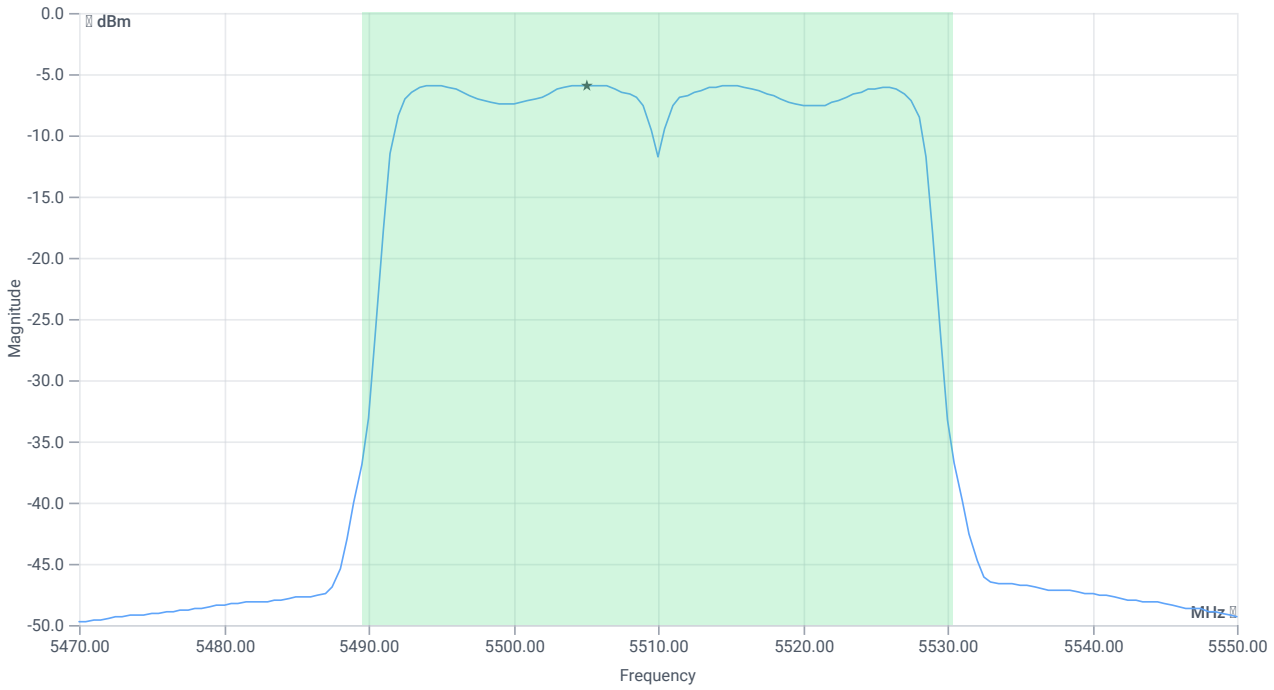
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.8	MHz	INFO
T1 26dB	---	---	5489.5200	MHz	INFO
T2 26dB	---	---	5530.3200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.98 | 9.56 | 20
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	5370 | 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	---	---	8.64	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	8.64	dBm	PASS
LIMIT: 11 dBm + 10 log 40.8					
Max output power DC corrected cond	---	27.11	8.64	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	8.64	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	---	---	-5.91	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.91	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2C

References

TC start	11.04.2024 15:36:36
Ambit temp [°C] | humidity [rel%]	22.8 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

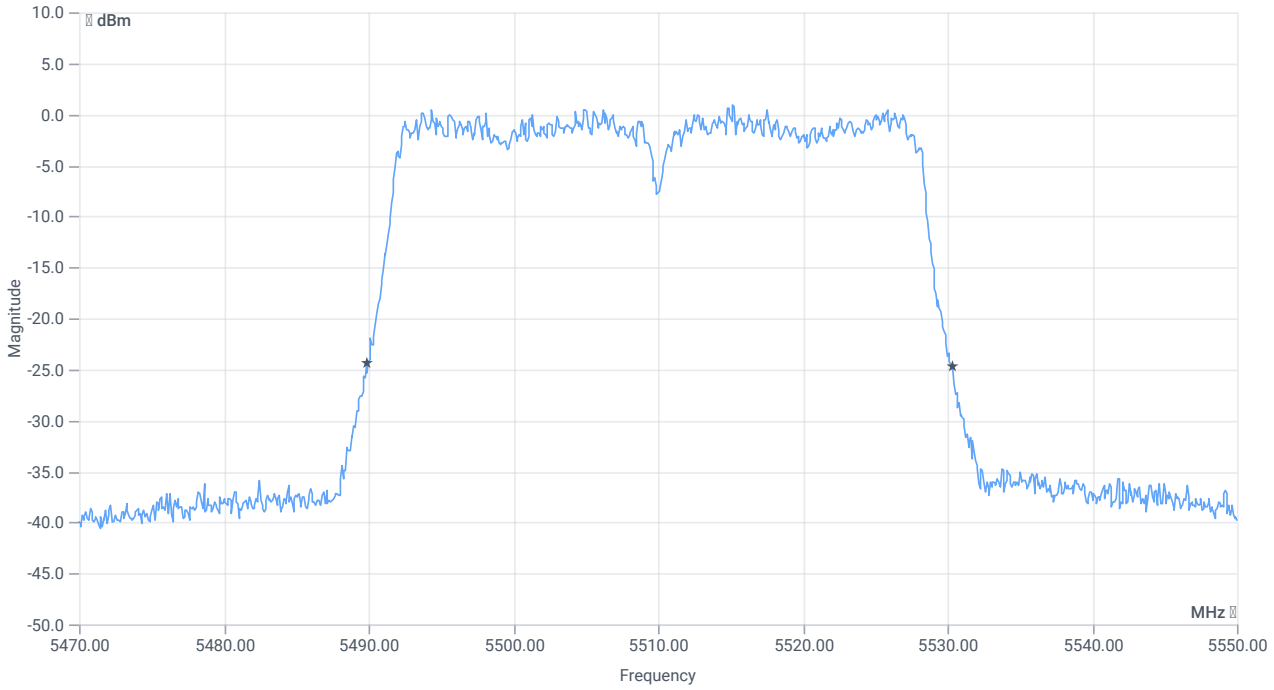
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.50	dBm	INFO
Ref. frequency	---	---	5526.580	MHz	INFO

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



BW 26dB

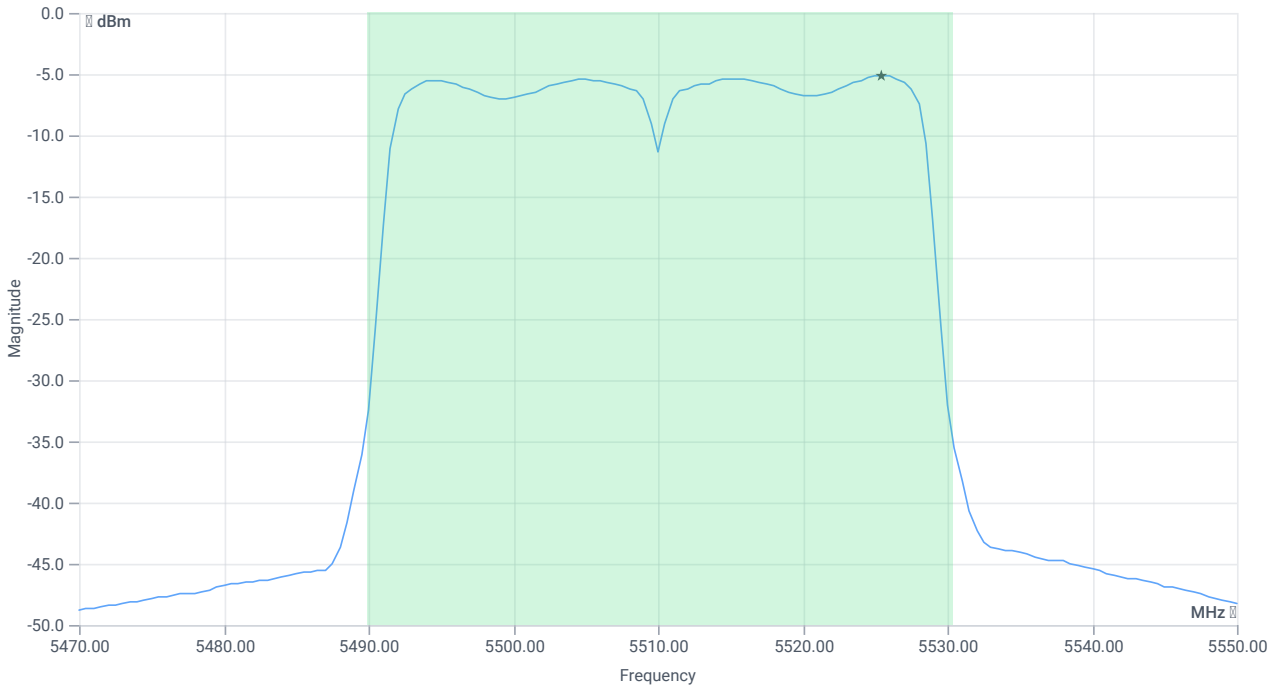
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.56	MHz	INFO
T1 26dB	---	---	5489.8400	MHz	INFO
T2 26dB	---	---	5530.4000	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.50 | 9.62 | 20
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	5370 | 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	---	---	9.24	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.24	dBm	PASS
LIMIT: 11 dBm + 10 log 40.56					
Max output power DC corrected cond	---	27.08	9.24	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	9.24	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	---	---	-5.12	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.12	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2C

References

TC start	11.04.2024 15:37:49
Ambit temp [°C] | humidity [rel%]	22.8 | 34
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

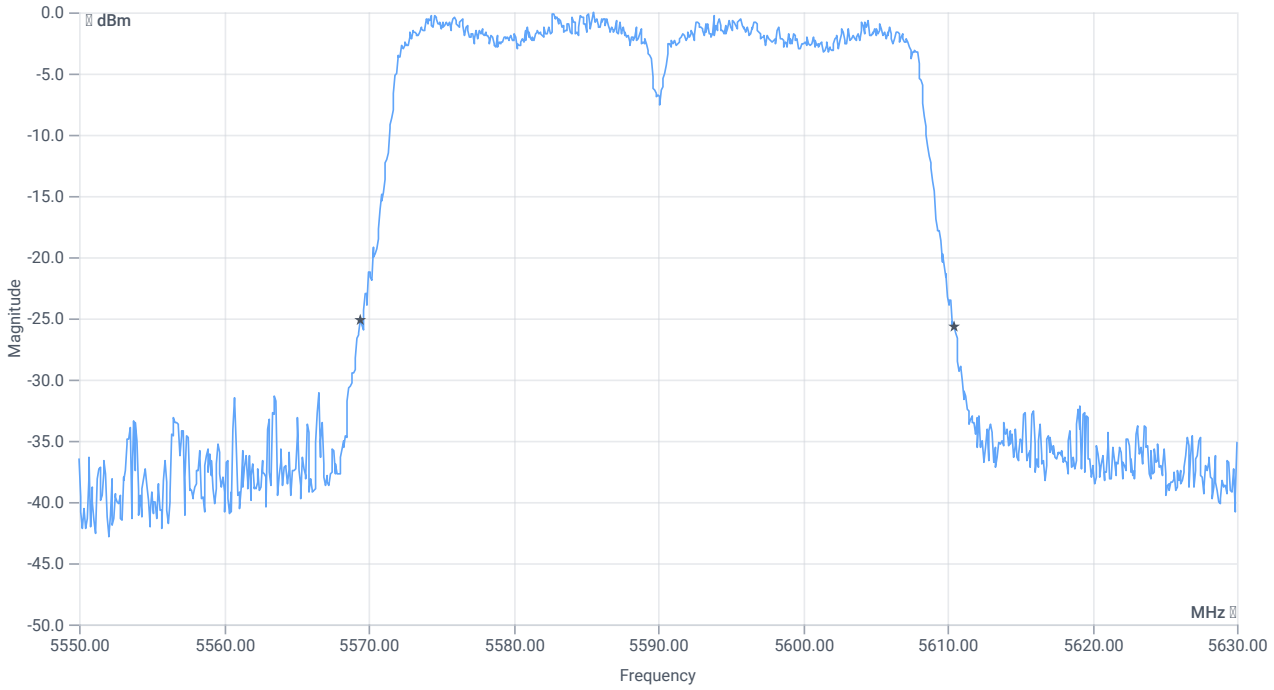
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.74	dBm	INFO
Ref. frequency	---	---	5576.410	MHz	INFO

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



BW 26dB

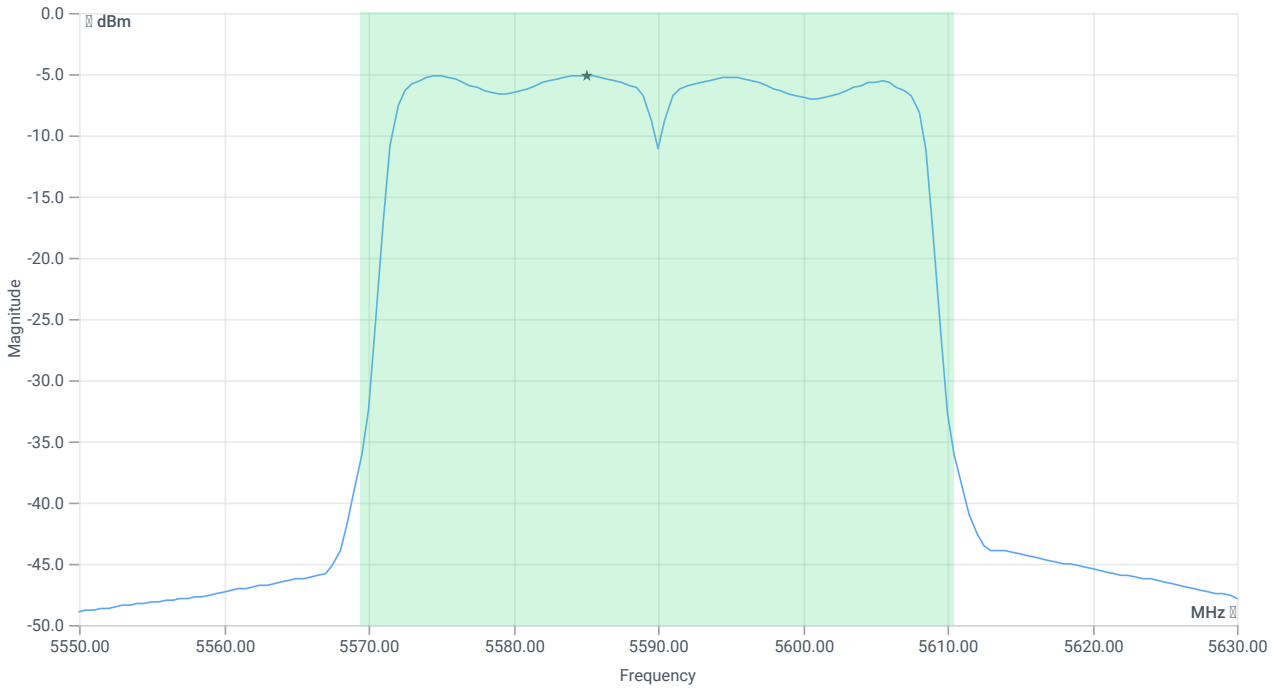
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.04	MHz	INFO
T1 26dB	---	---	5569.4400	MHz	INFO
T2 26dB	---	---	5610.4800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.74 | 9.86 | 20
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	5370 | 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	---	---	9.33	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.33	dBm	PASS
LIMIT: 11 dBm + 10 log 41.04					
Max output power DC corrected cond	---	27.13	9.33	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	9.33	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	---	---	-5.08	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.08	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2C

References

TC start	11.04.2024 15:38:58
Ambit temp [°C] | humidity [rel%]	23.0 | 34
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

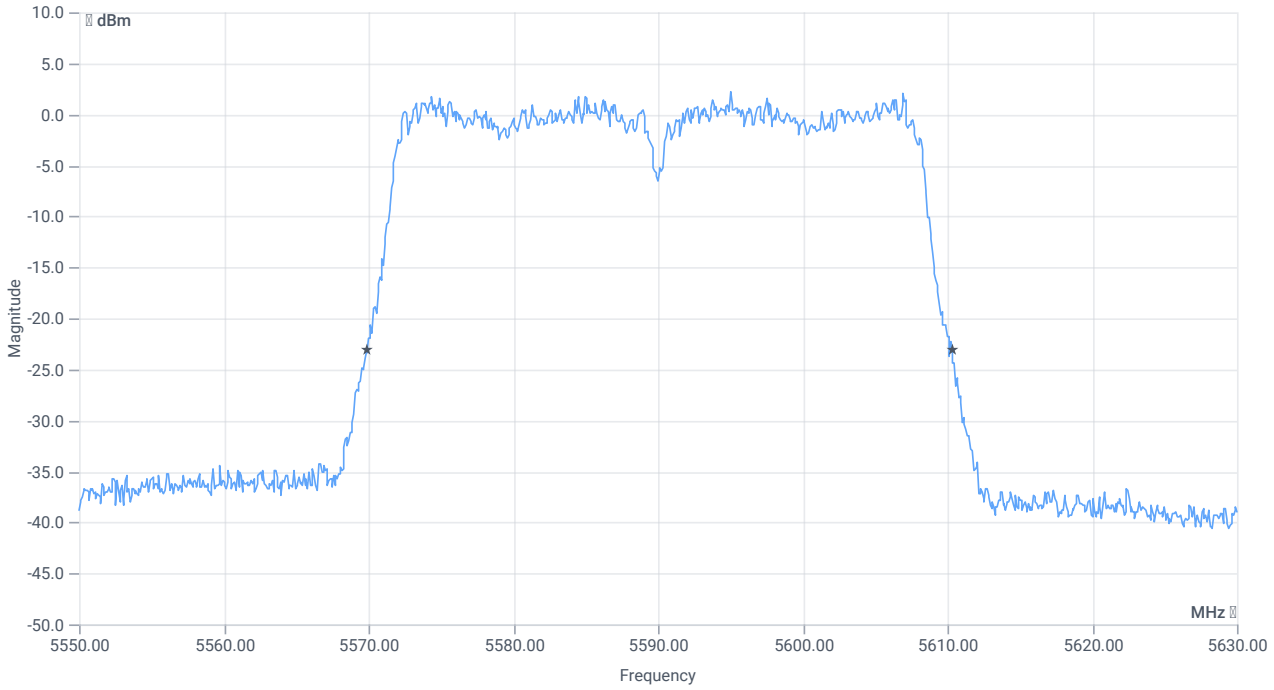
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.49	dBm	INFO
Ref. frequency	---	---	5585.200	MHz	INFO

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



BW 26dB

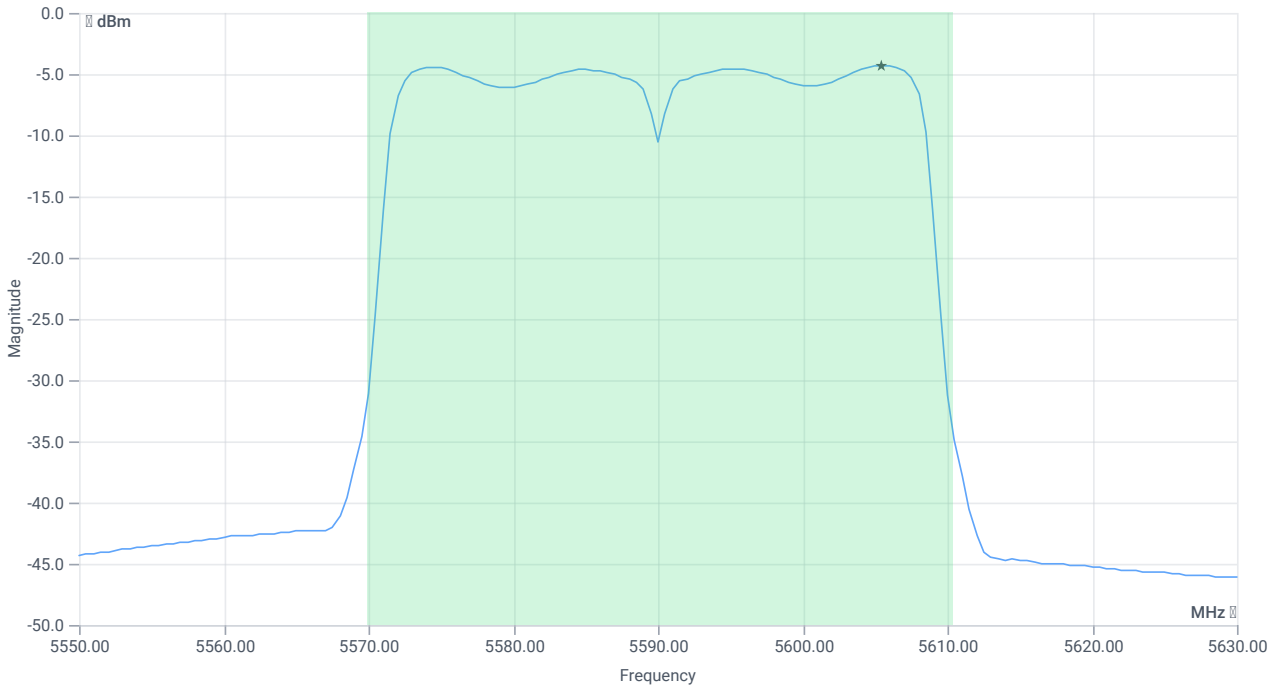
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.48	MHz	INFO
T1 26dB	---	---	5569.8400	MHz	INFO
T2 26dB	---	---	5610.3200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.49 | 9.82 | 25
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	5370 | 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	---	---	10.11	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.11	dBm	PASS
LIMIT: 11 dBm + 10 log 40.48					
Max output power DC corrected cond	---	27.07	10.11	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	10.11	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	---	---	-4.27	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-4.27	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2C

References

TC start	11.04.2024 15:40:12
Ambit temp [°C] | humidity [rel%]	23.1 | 34
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

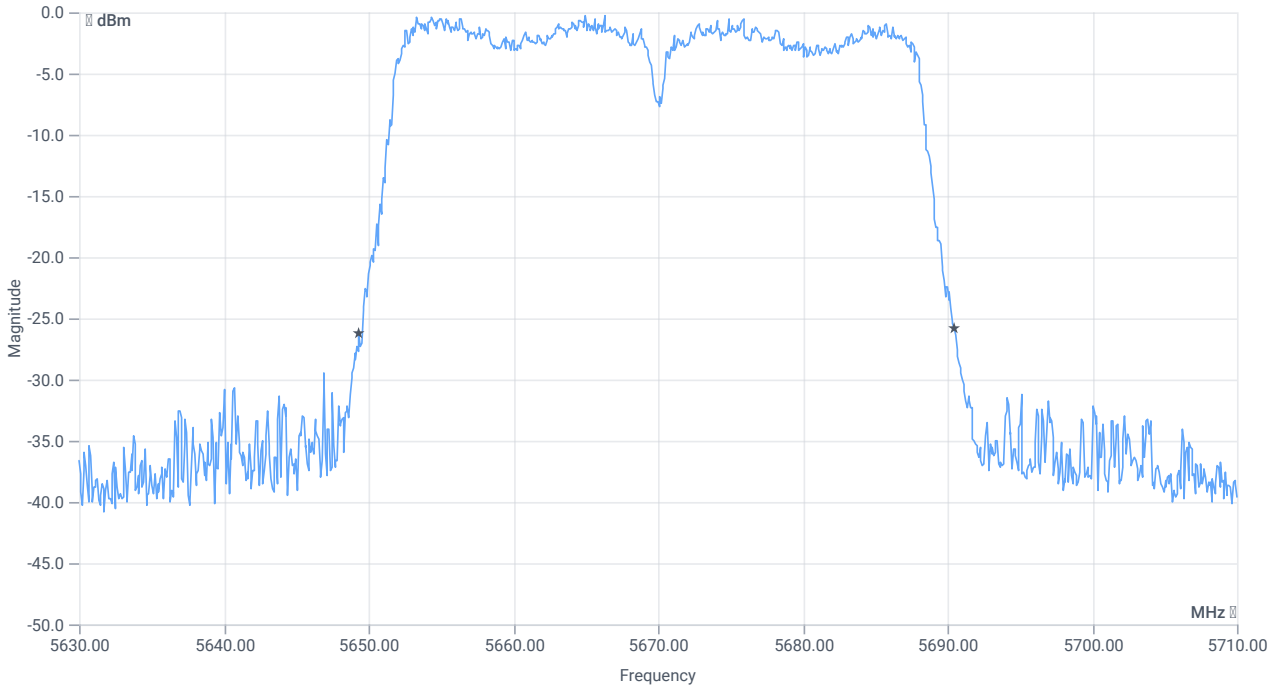
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.27	dBm	INFO
Ref. frequency	---	---	5654.220	MHz	INFO

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



BW 26dB

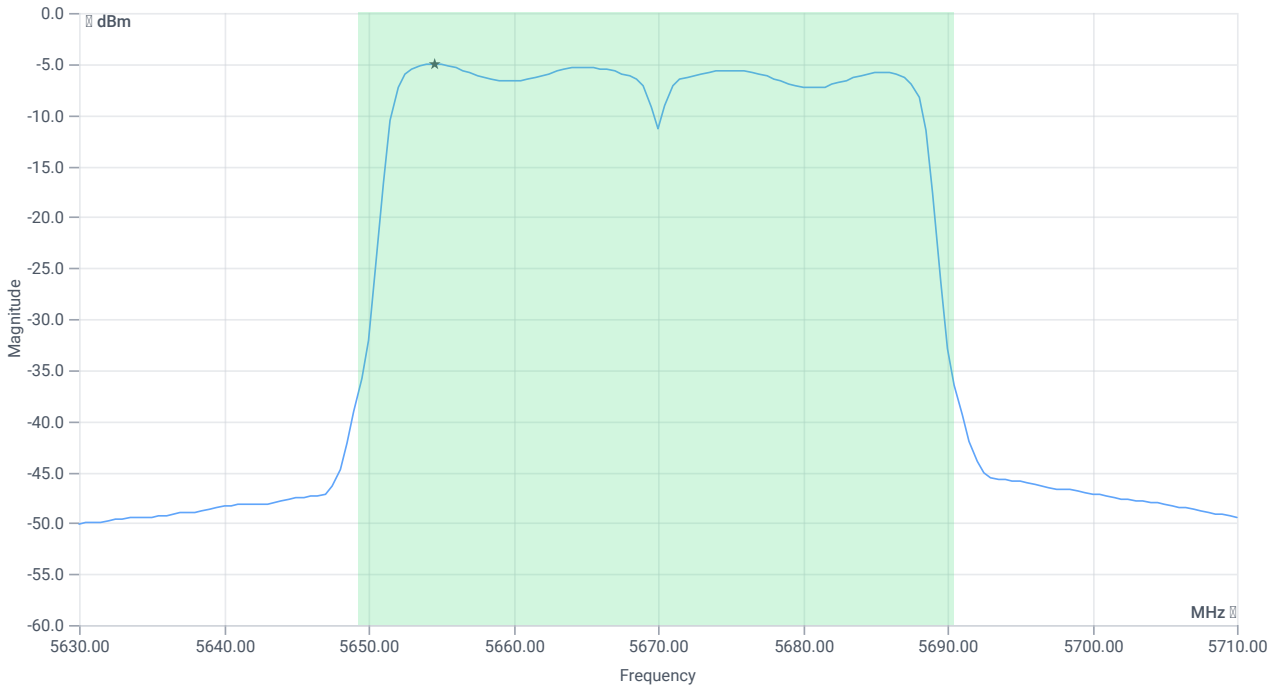
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	41.12	MHz	INFO
T1 26dB	---	---	5649.3600	MHz	INFO
T2 26dB	---	---	5690.4800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.27 | 9.66 | 20
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	5370 | 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	---	---	9.14	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	9.14	dBm	PASS
LIMIT: 11 dBm + 10 log 41.12					
Max output power DC corrected cond	---	27.14	9.14	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	9.14	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	---	---	-5.01	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-5.01	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-2C

References

TC start	11.04.2024 15:41:21
Ambit temp [°C] | humidity [rel%]	23.3 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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.

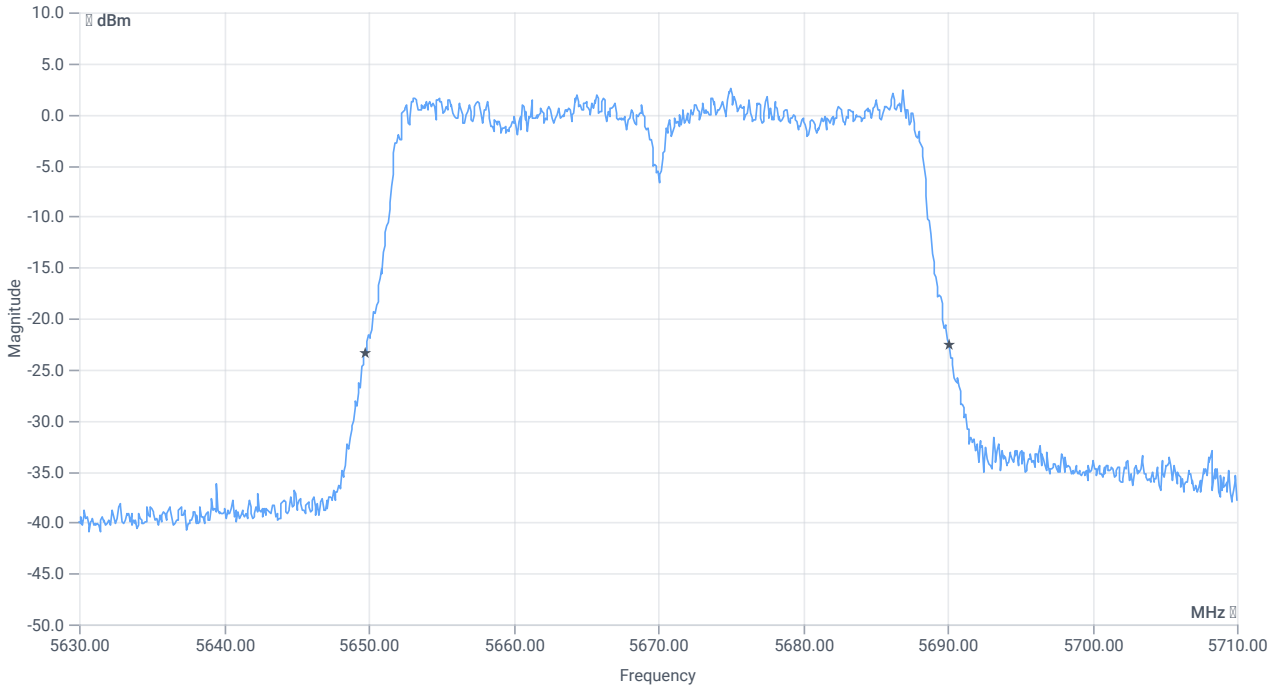
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.91	dBm	INFO
Ref. frequency	---	---	5685.580	MHz	INFO

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



BW 26dB

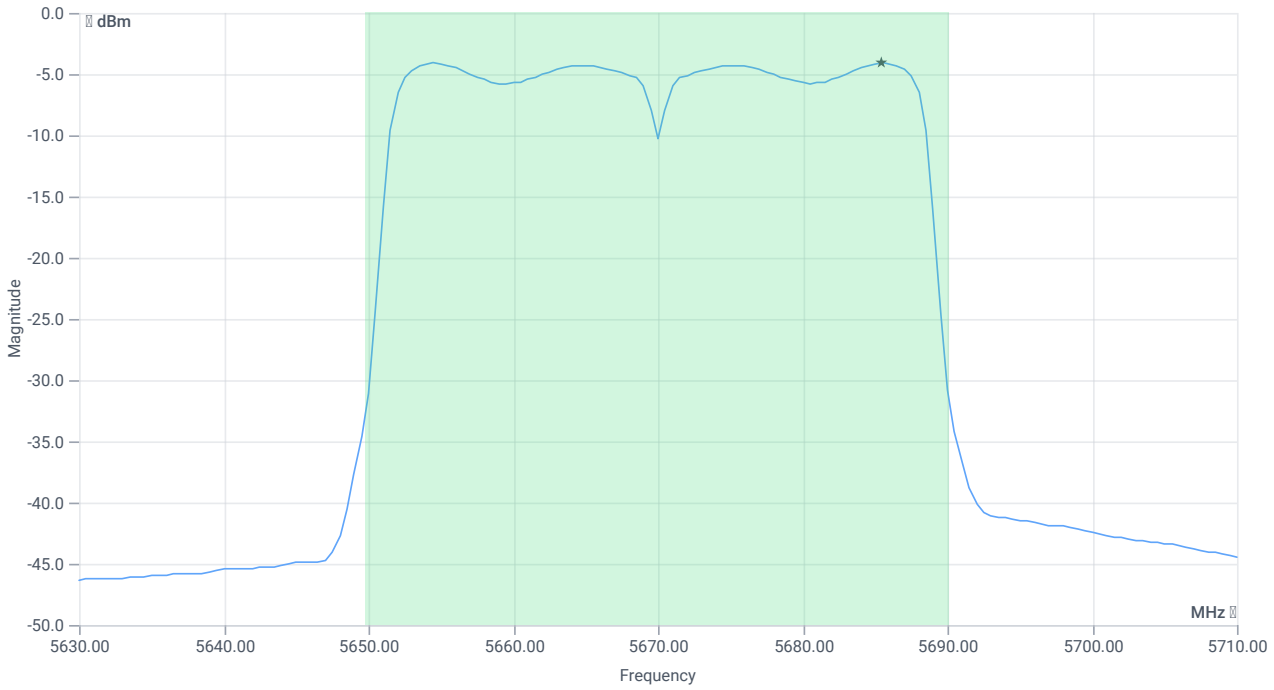
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.4	MHz	INFO
T1 26dB	---	---	5649.7600	MHz	INFO
T2 26dB	---	---	5690.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.91 | 9.68 | 25
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	5370 | 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	---	---	10.37	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	24	10.37	dBm	PASS
LIMIT: 11 dBm + 10 log 40.4					
Max output power DC corrected cond	---	27.06	10.37	dBm	PASS
LIMIT absolute eirp (TPC not supported)					
Max output power DC corrected eirp	---	27	10.37	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	---	---	-4.11	dBm/1MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	11	-4.11	dBm/1MHz	PASS

Verdict
PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-3

References

TC start	11.04.2024 15:42:36
Ambit temp [°C] | humidity [rel%]	23.4 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5755 MHz

RESULT: Reference power cond.

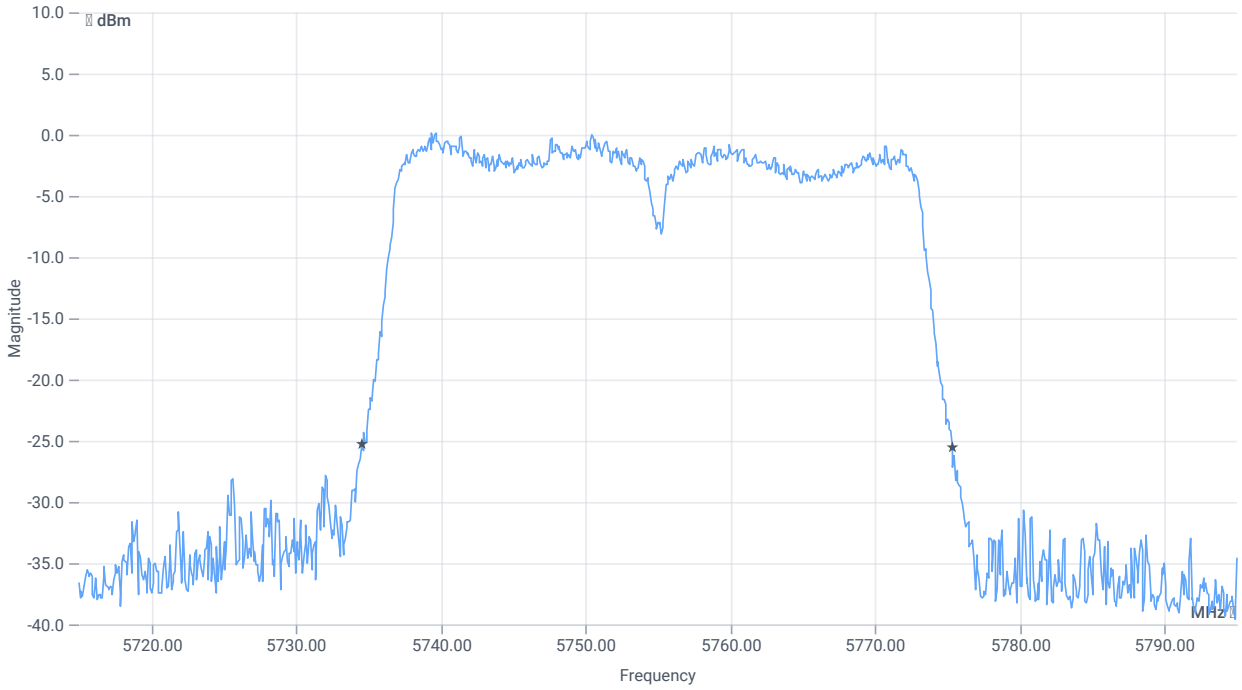
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.54	dBm	INFO
Ref. frequency	---	---	5738.820	MHz	INFO

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



BW 26dB

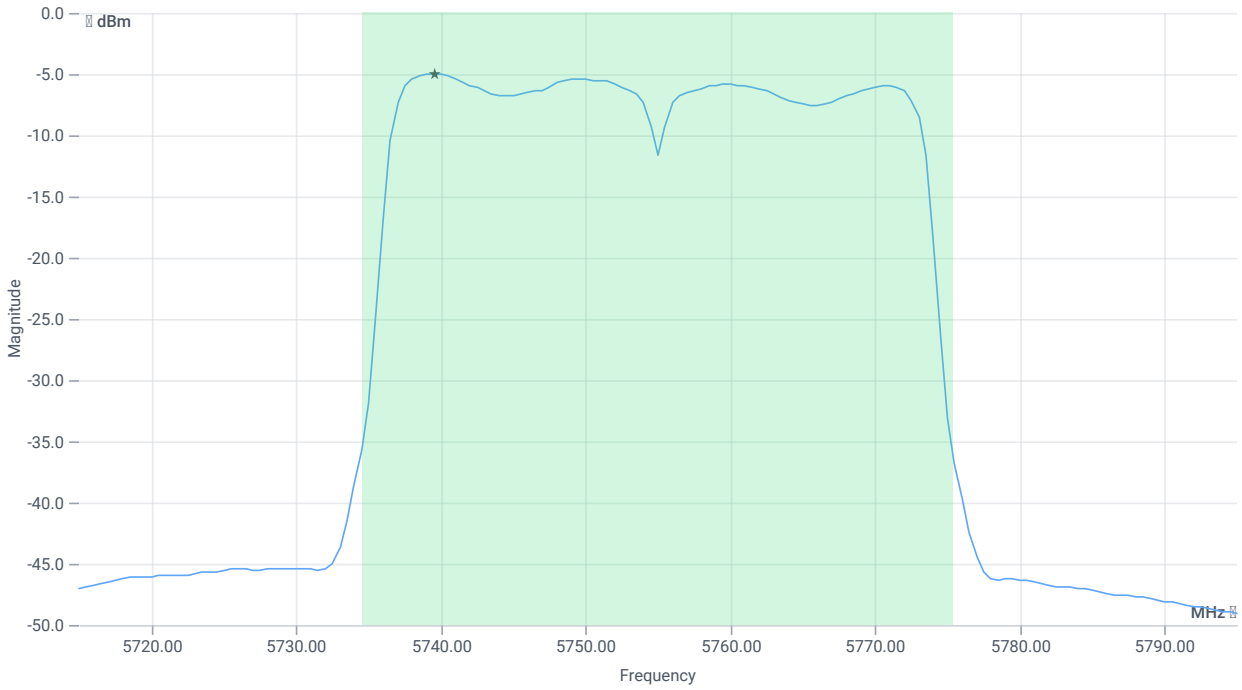
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.8	MHz	INFO
T1 26dB	---	---	5734.5200	MHz	INFO
T2 26dB	---	---	5775.3200	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.54 | 9.89 | 20
Start [MHz] | Stop [MHz]	5715.000 | 5795.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 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	---	---	9.05	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	9.05	dBm	PASS
LIMIT: 11 dBm + 10 log 40.8					
Max output power DC corrected cond	---	27.11	9.05	dBm	na

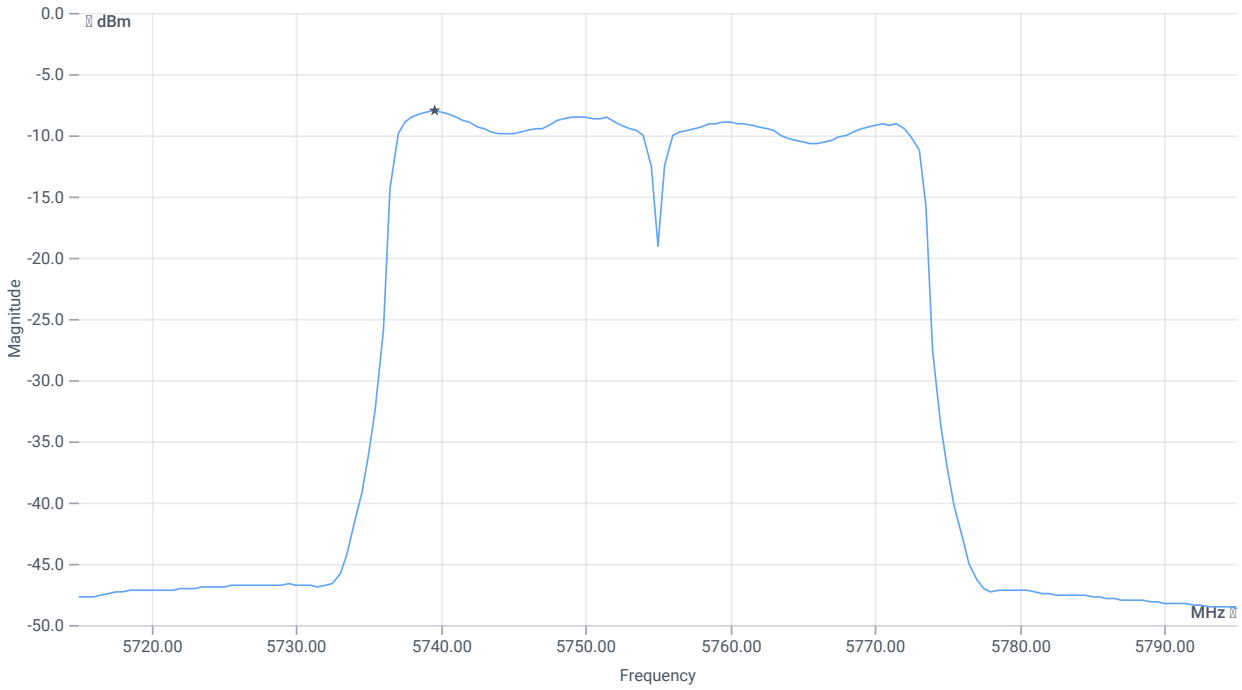
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	15.54 | 9.89 | 25

READ SA SETTINGS:

Start [MHz] | Stop [MHz]	5715.000 | 5795.000
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-8.01	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-8.01	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-3

References

TC start	11.04.2024 15:43:53
Ambit temp [°C] | humidity [rel%]	23.5 | 33
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5755 MHz

RESULT: Reference power cond.

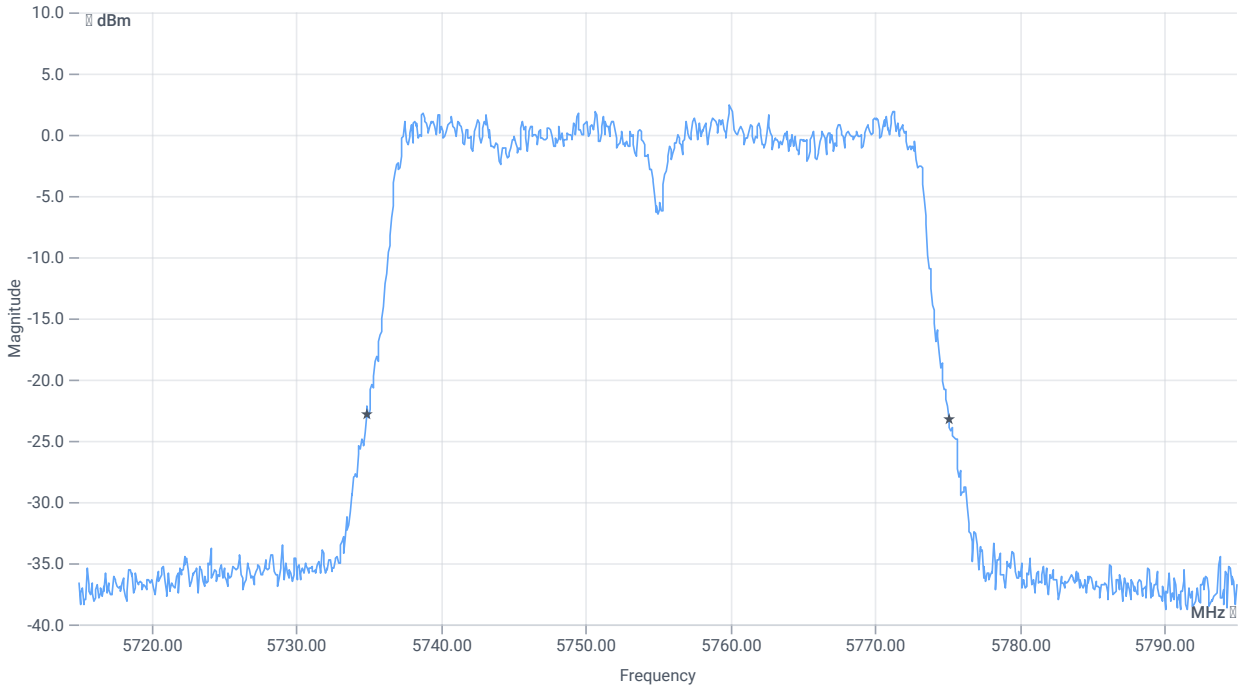
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.08	dBm	INFO
Ref. frequency	---	---	5750.400	MHz	INFO

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



BW 26dB

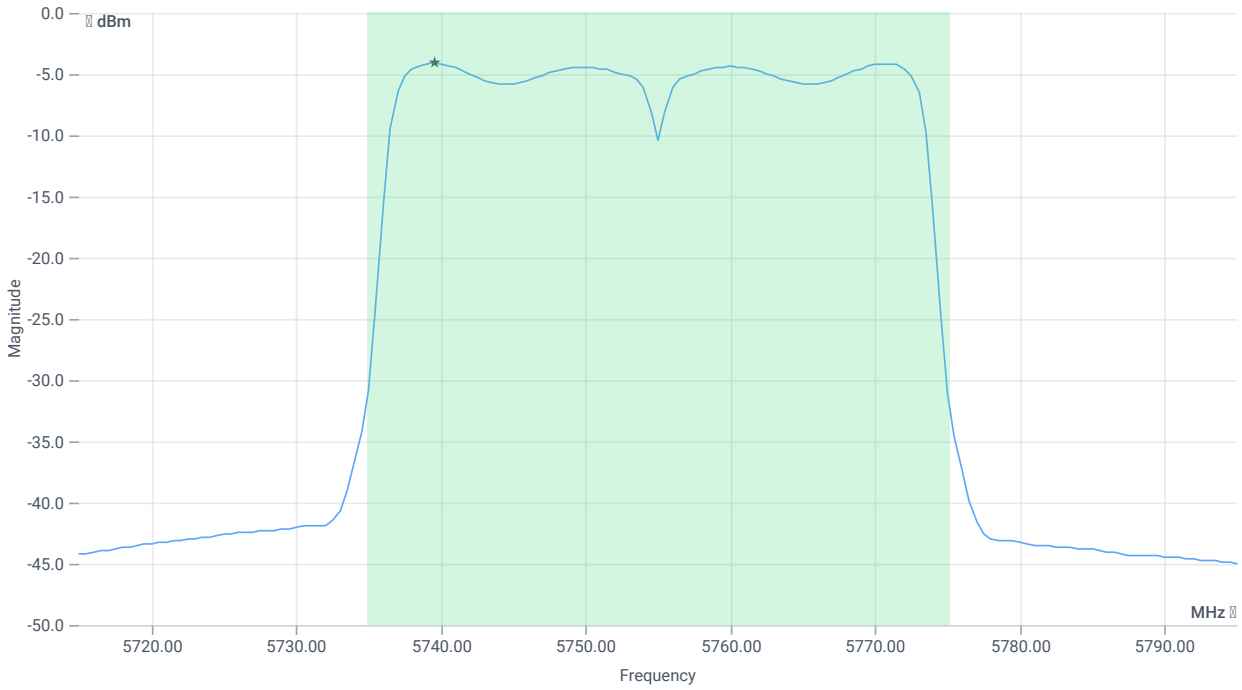
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.24	MHz	INFO
T1 26dB	---	---	5734.8400	MHz	INFO
T2 26dB	---	---	5775.0800	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.08 | 9.91 | 25
Start [MHz] | Stop [MHz]	5715.000 | 5795.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 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	---	---	10.33	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	10.33	dBm	PASS
LIMIT: 11 dBm + 10 log 40.24					
Max output power DC corrected cond	---	27.05	10.33	dBm	na

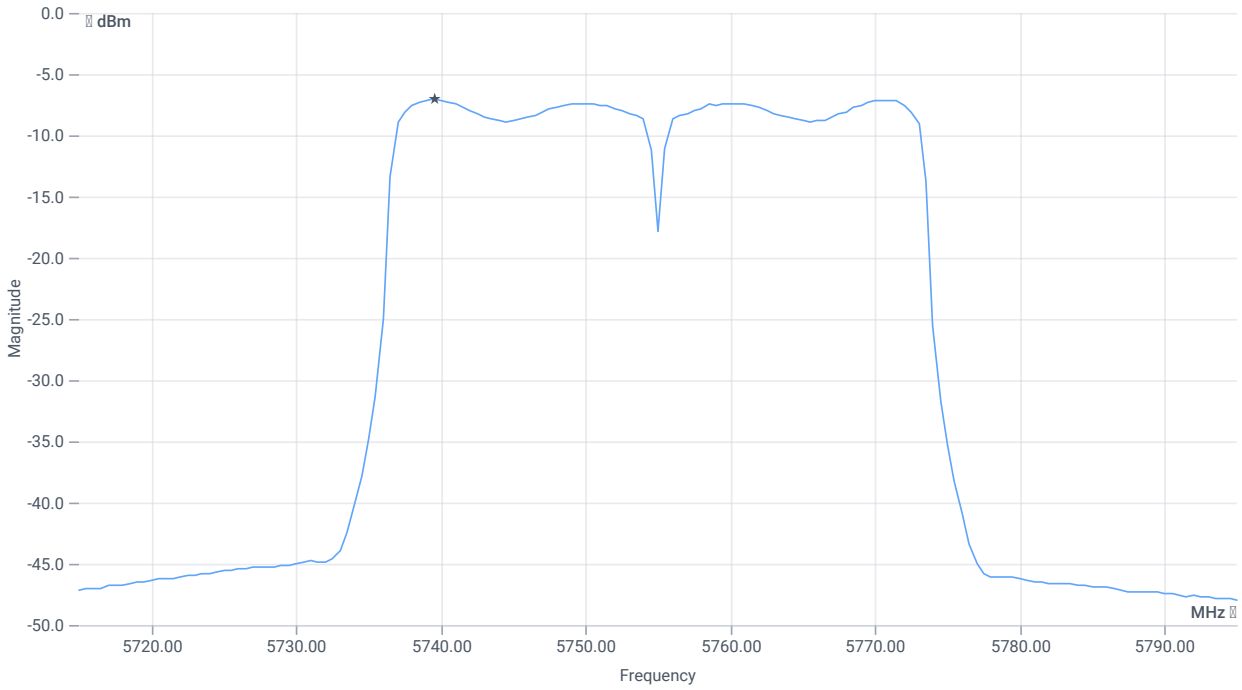
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.08 | 9.91 | 25

READ SA SETTINGS:

Start [MHz] | Stop [MHz]	5715.000 | 5795.000
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-7.09	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-7.09	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-3

References

TC start	11.04.2024 15:45:16
Ambit temp [°C] | humidity [rel%]	23.7 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5795 MHz

RESULT: Reference power cond.

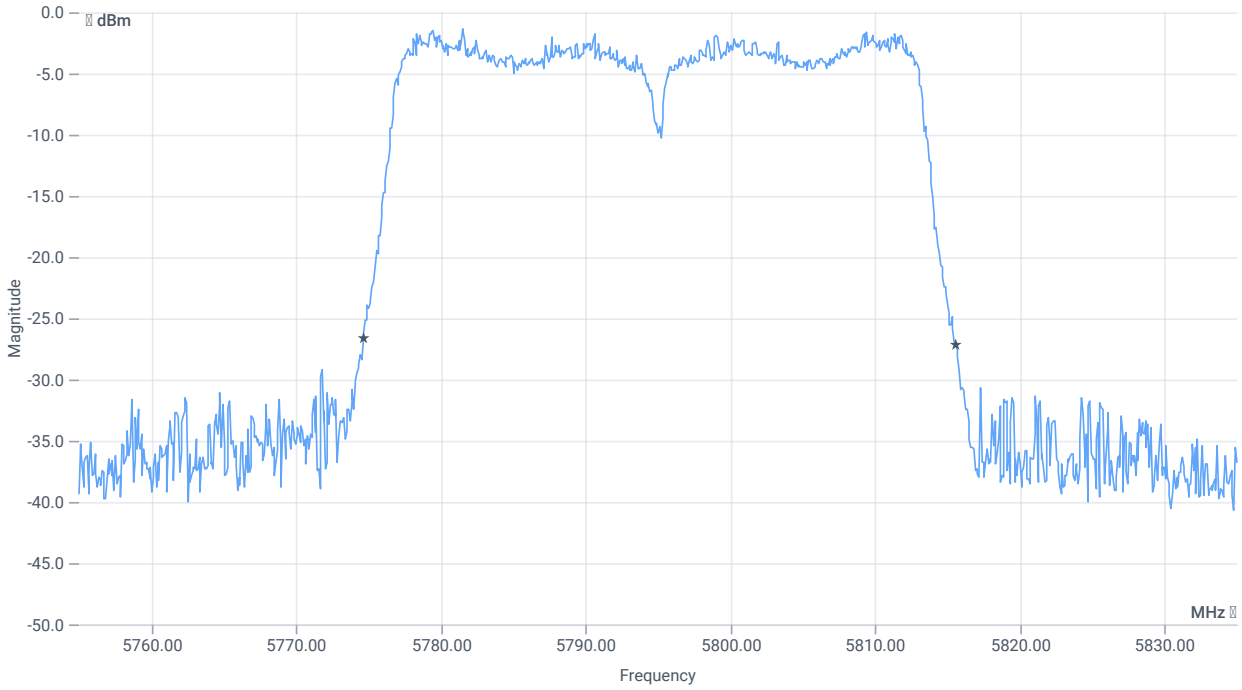
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.29	dBm	INFO
Ref. frequency	---	---	5808.990	MHz	INFO

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



BW 26dB

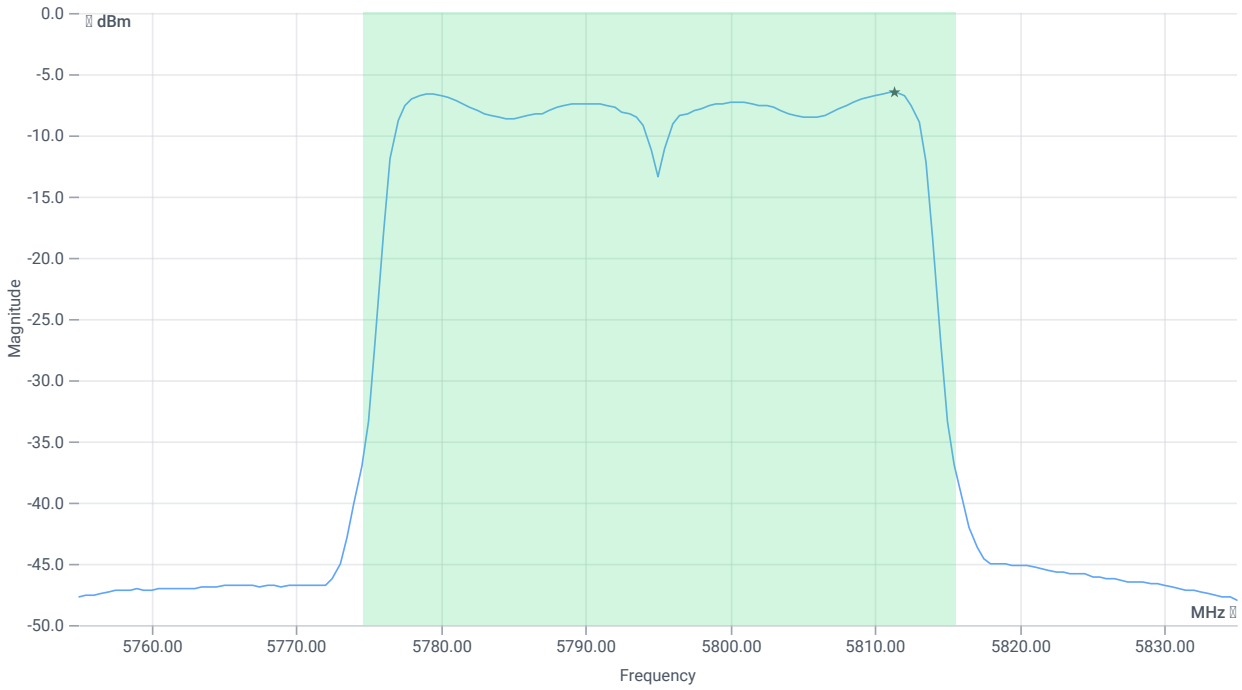
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.96	MHz	INFO
T1 26dB	---	---	5774.6000	MHz	INFO
T2 26dB	---	---	5815.5600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.29 | 9.87 | 20
Start [MHz] | Stop [MHz]	5755.000 | 5835.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 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	---	---	7.58	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	7.58	dBm	PASS
LIMIT: 11 dBm + 10 log 40.96					
Max output power DC corrected cond	---	27.12	7.58	dBm	na

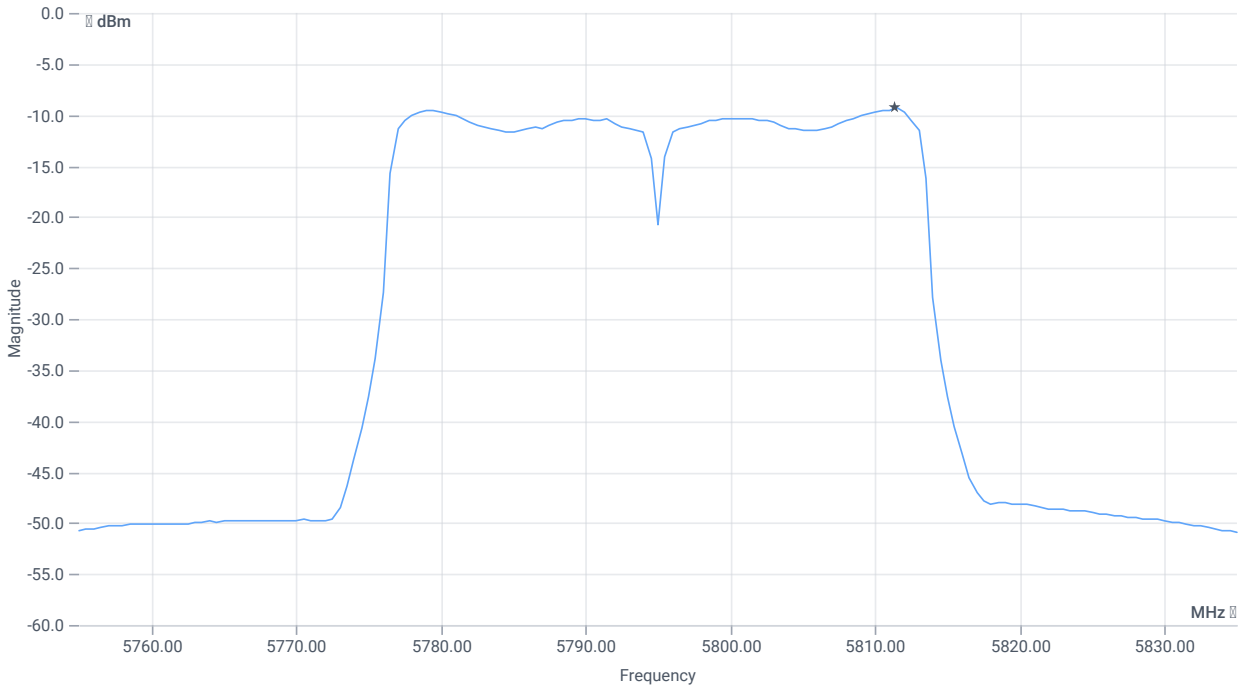
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	13.29 | 9.87 | 20

READ SA SETTINGS:

Start [MHz] | Stop [MHz]	5755.000 | 5835.000
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-9.27	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-9.27	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407 # Max output power and psd ~ WLAN5Gx ac-VHT40 mode U-NII-3

References

TC start	11.04.2024 15:46:31
Ambit temp [°C] | humidity [rel%]	23.7 | 32
System version	5.0.3.8
Standard | Version	FCC 15.407 | NI
Method	KDB789033 D02, F., E.2.e.
Description	FCC 15.407 Max Output Power & PSD - WLAN5Gx ac-VHT40 mode U-NII-3
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)	No

Equipment

Signal analyzer,Rohde&Schwarz,FSV-30,1321.3008K30/103170,3.60
Switch matrix,cetecom advanced GmbH,USM,A001,1.0.0

Test Parameter

Technology to test	WLAN5Gx ac-VHT40 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
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 5795 MHz

RESULT: Reference power cond.

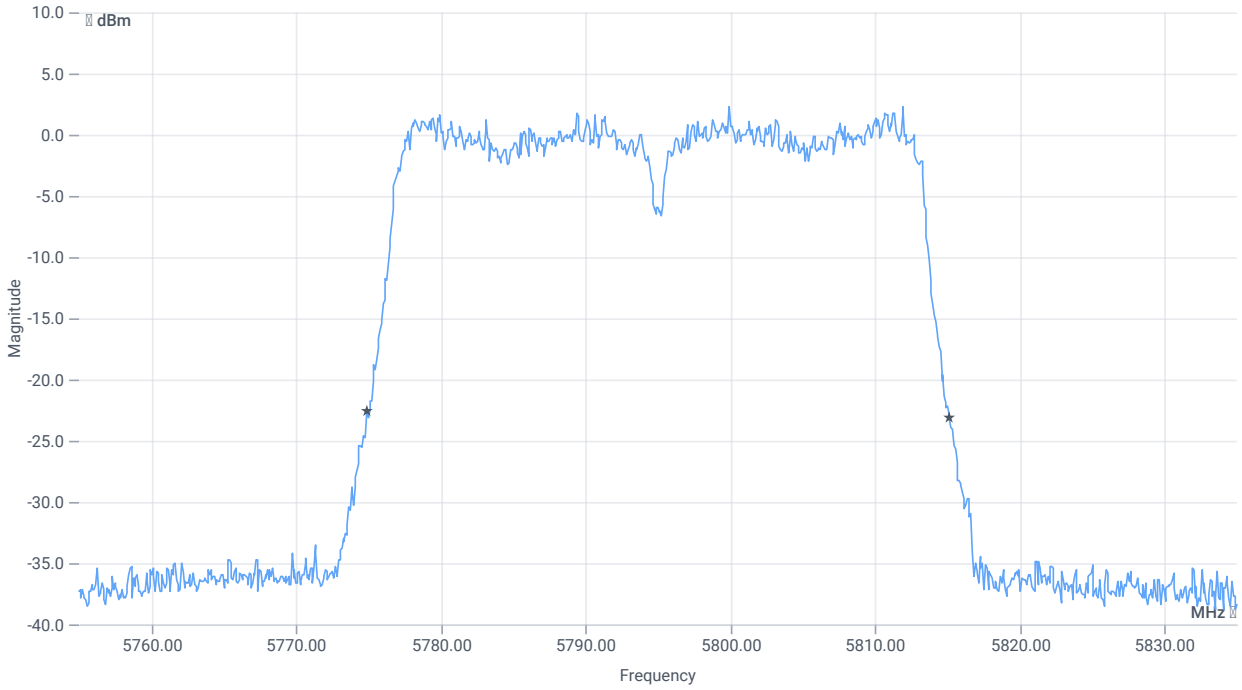
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.31	dBm	INFO
Ref. frequency	---	---	5800.390	MHz	INFO

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



BW 26dB

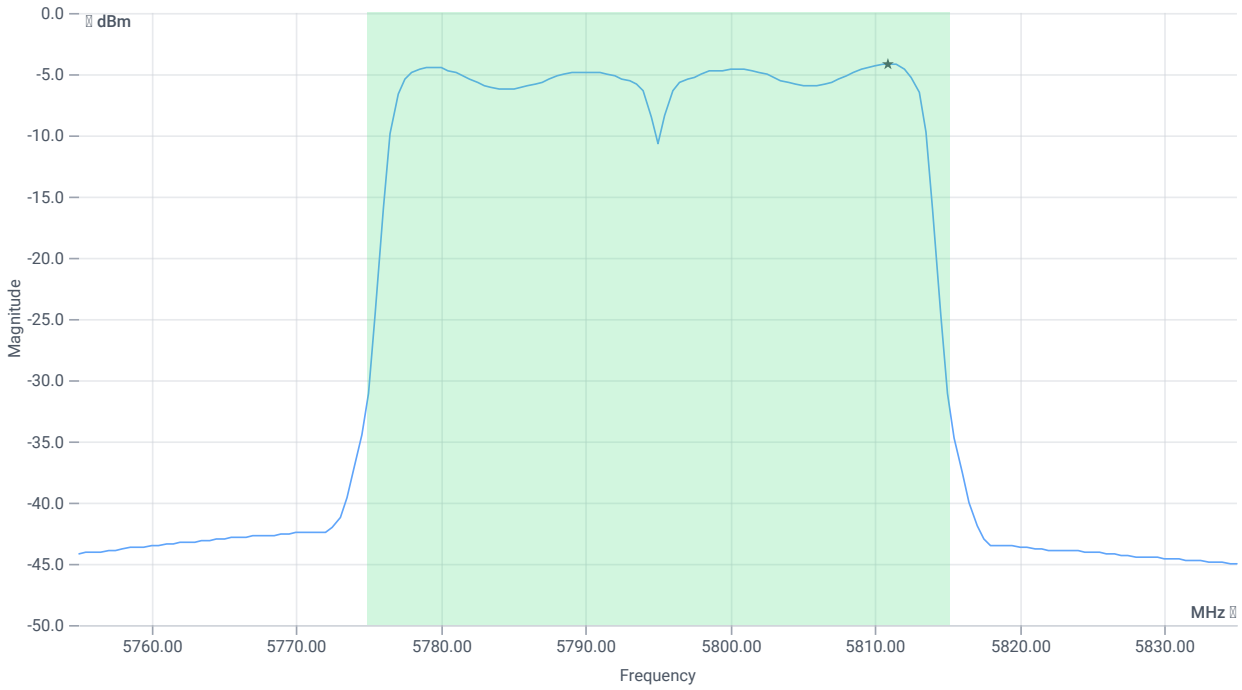
RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth 26dB	---	---	40.32	MHz	INFO
T1 26dB	---	---	5774.8400	MHz	INFO
T2 26dB	---	---	5815.1600	MHz	INFO

Maximum Output Power

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.31 | 9.91 | 25
Start [MHz] | Stop [MHz]	5755.000 | 5835.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 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	---	---	10.07	dBm	INFO
Duty cycle correction	---	---	0	dB	INFO
LIMIT absolute:					
Max output power DC corrected cond	---	30	10.07	dBm	PASS
LIMIT: 11 dBm + 10 log 40.32					
Max output power DC corrected cond	---	27.06	10.07	dBm	na

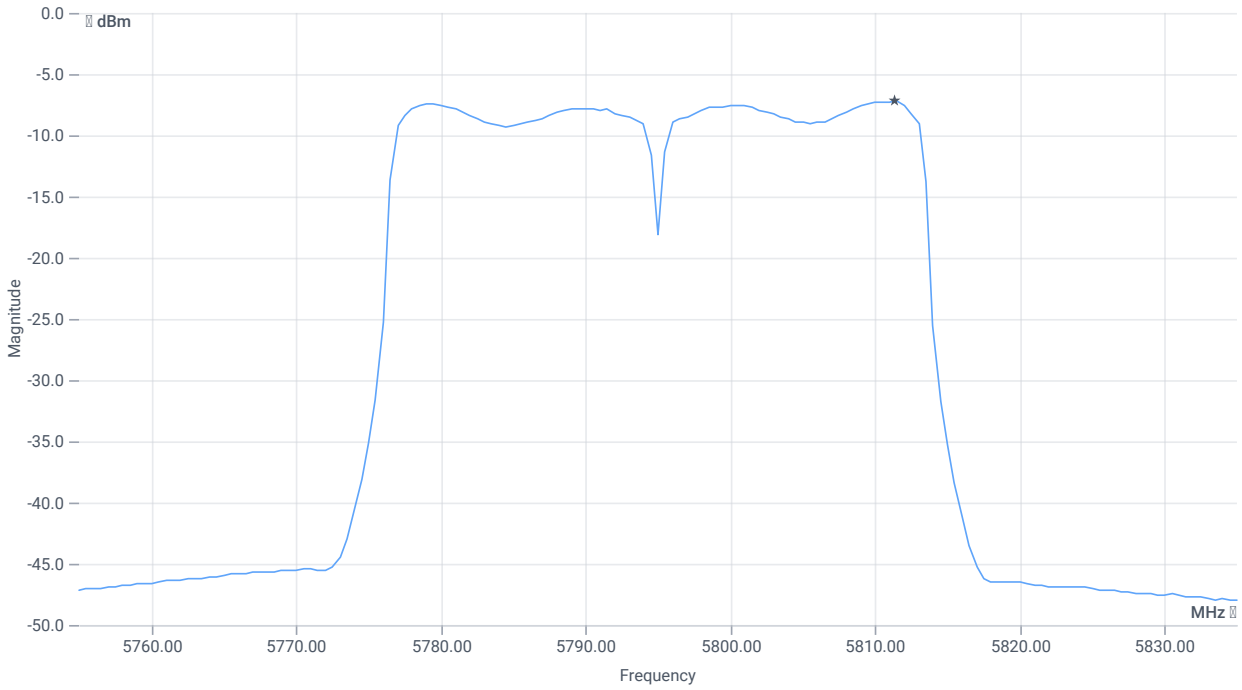
Power Spectral Density U-NII-3

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.31 | 9.91 | 25

READ SA SETTINGS:

Start [MHz] | Stop [MHz]	5755.000 | 5835.000
RBW [MHz] | VBW [MHz]	0.500000 | 3.000000
Detector | TraceMode	RMS | MAXH
Sweep: time [ms] | count | points per Section | type	5370 | 1 | 161 | SWE



PSD UNII-3

RESULT

CONDUCTED LIMITS FOR MAX ANTENNA GAIN OF 6 D BI

Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Power spectral density cond	---	---	-7.13	dBm/0.5MHz	INFO
Duty cycle correction	---	---	0	dB	INFO
Power spectral density DC corrected cond	---	30	-7.13	dBm/0.5MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx a mode U-NII-3

References

TC start	16.04.2024 15:50:21
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3
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)	No

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
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 5745 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

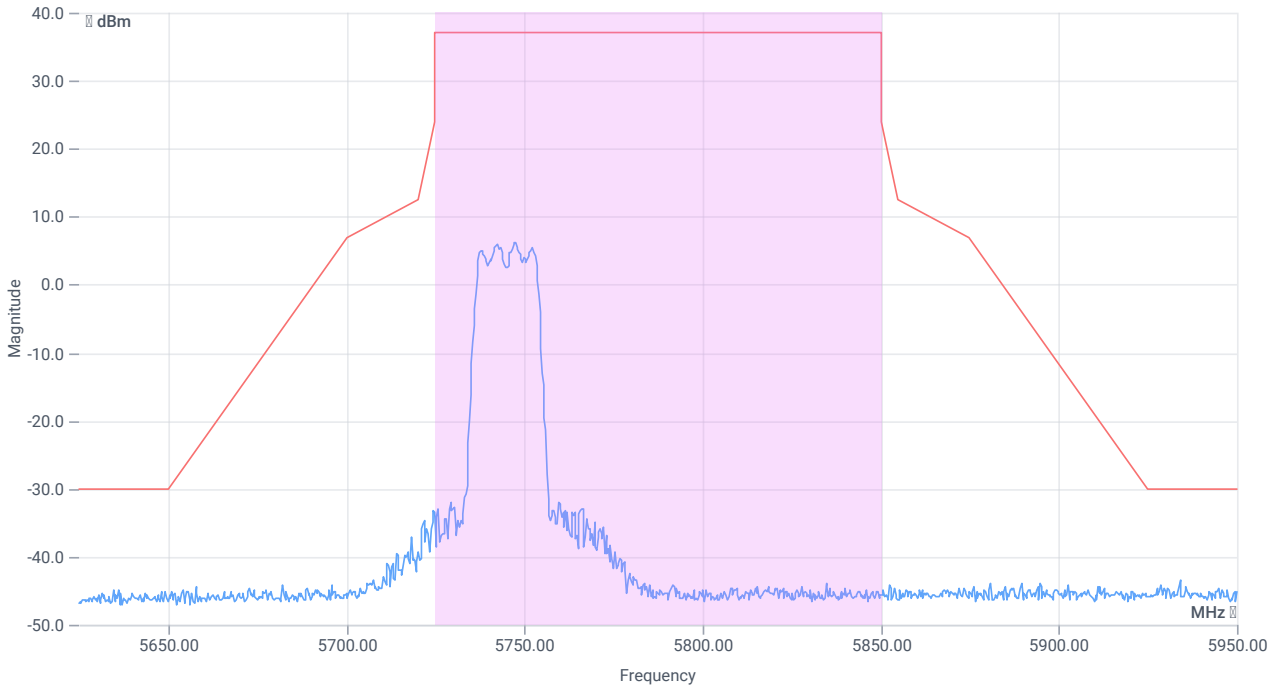
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.87	dBm	INFO
Ref. frequency	---	---	5741.800	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	8.87 | 9.86 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx a mode U-NII-3

References

TC start	16.04.2024 15:51:47
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3
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)	No

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
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 5745 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

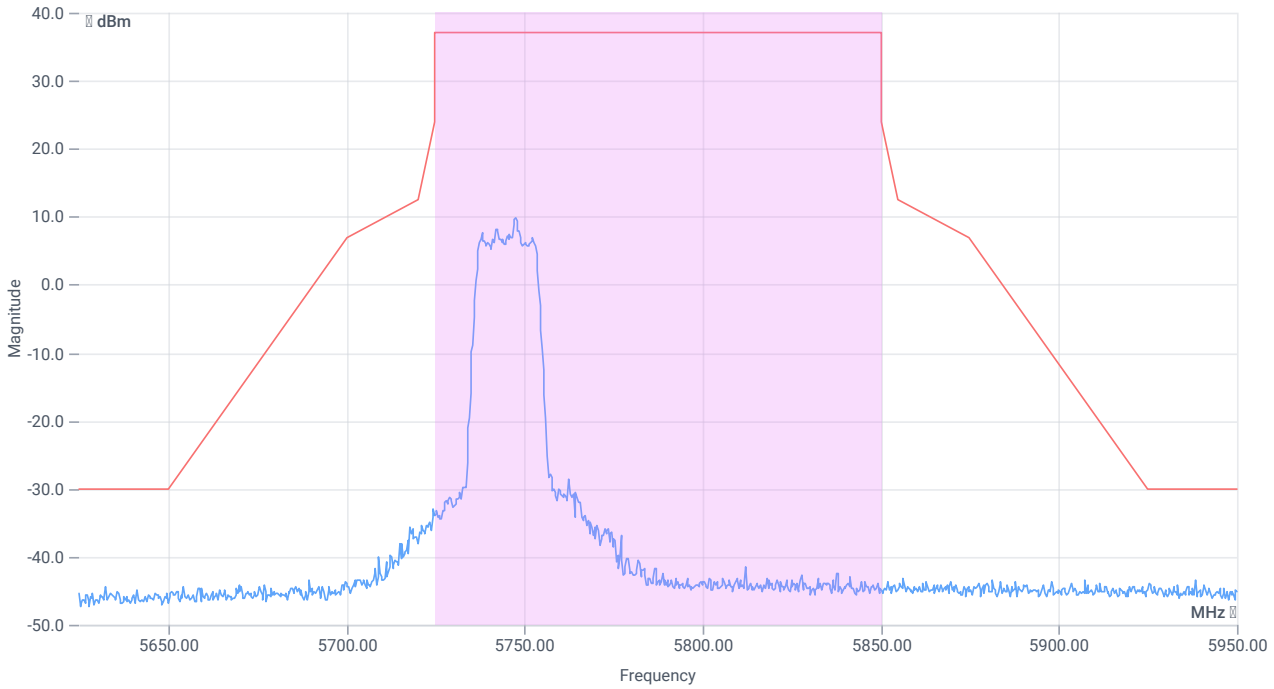
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.57	dBm	INFO
Ref. frequency	---	---	5742.200	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.57 | 9.88 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx a mode U-NII-3

References

TC start	16.04.2024 15:53:21
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3
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)	No

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
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 5785 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

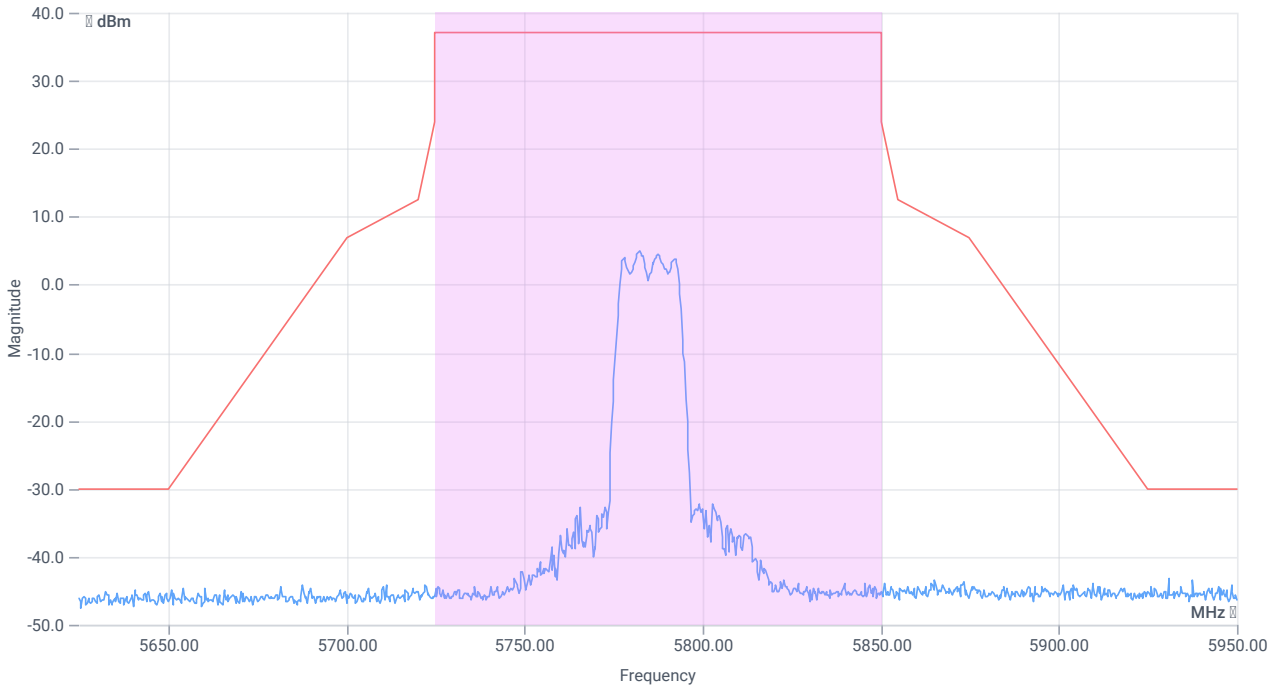
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.73	dBm	INFO
Ref. frequency	---	---	5781.600	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	7.73 | 9.88 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx a mode U-NII-3

References

TC start	16.04.2024 15:54:51
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3
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)	No

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
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 5785 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

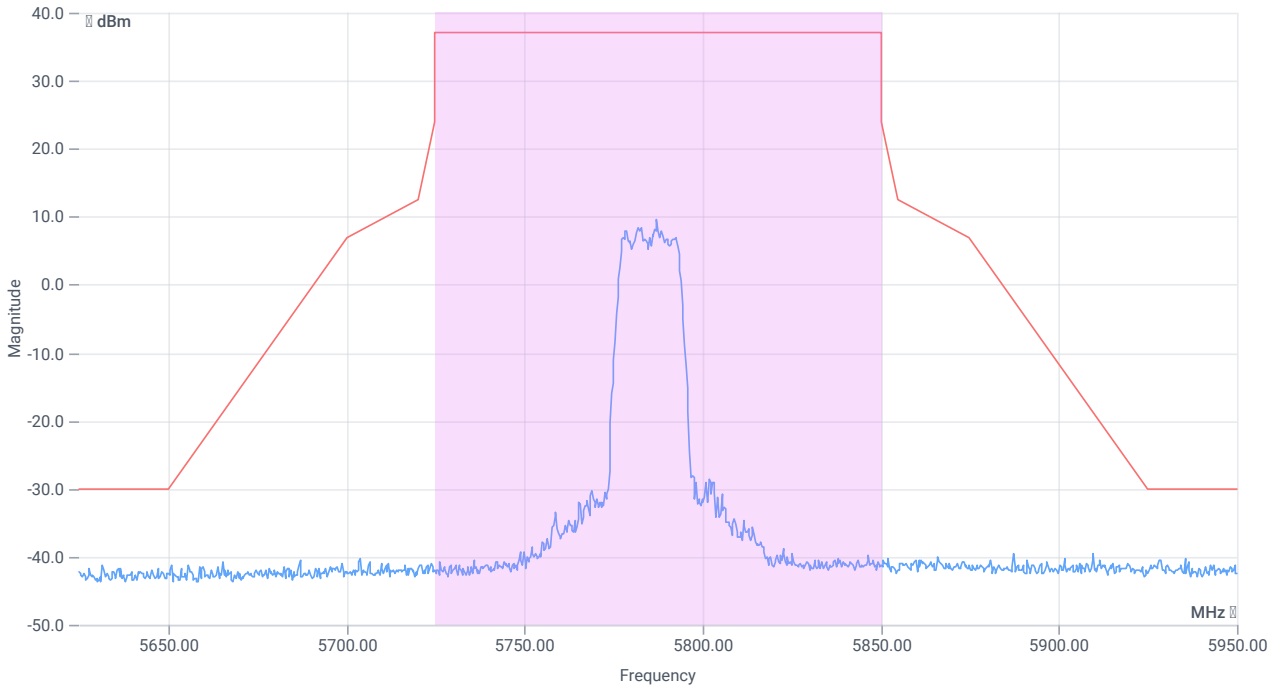
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	7.52	dBm	INFO
Ref. frequency	---	---	5788.200	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	10.52 | 9.91 | 20
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx a mode U-NII-3

References

TC start	16.04.2024 15:56:17
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3
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)	No

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
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 5825 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

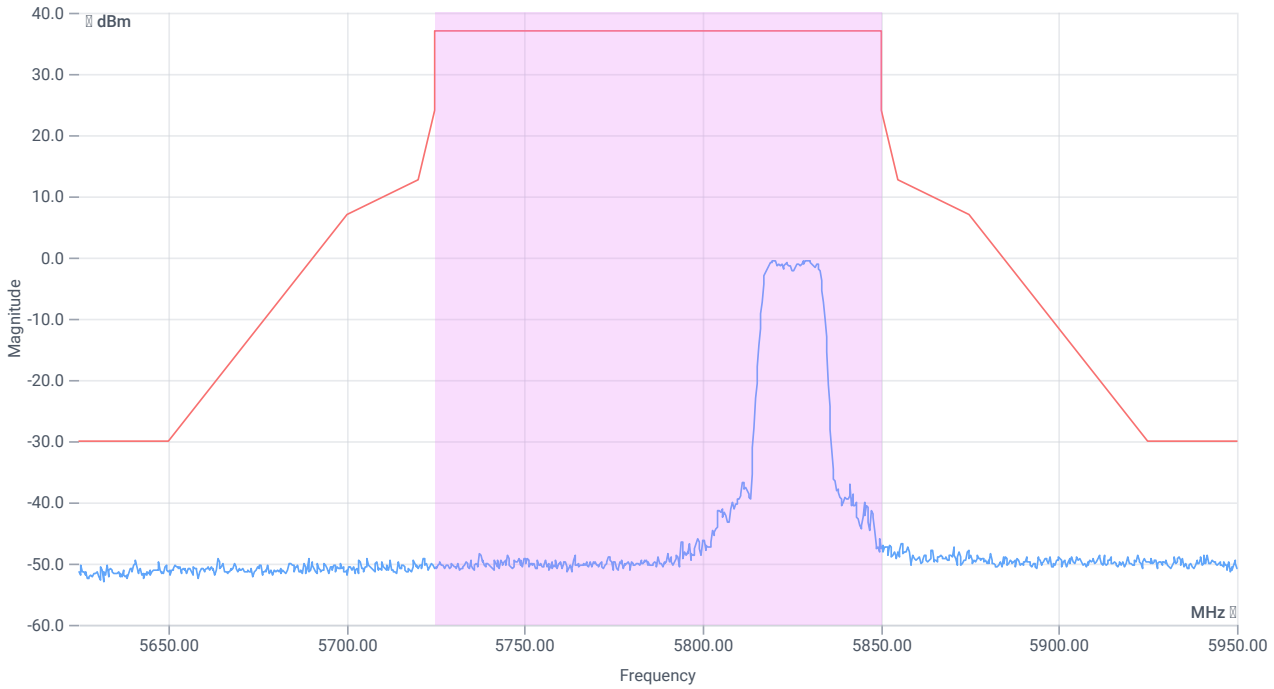
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-1.21	dBm	INFO
Ref. frequency	---	---	5820.600	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	1.79 | 9.95 | 10
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx a mode U-NII-3

References

TC start	16.04.2024 15:57:33
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx a mode U-NII-3
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)	No

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
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 5825 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

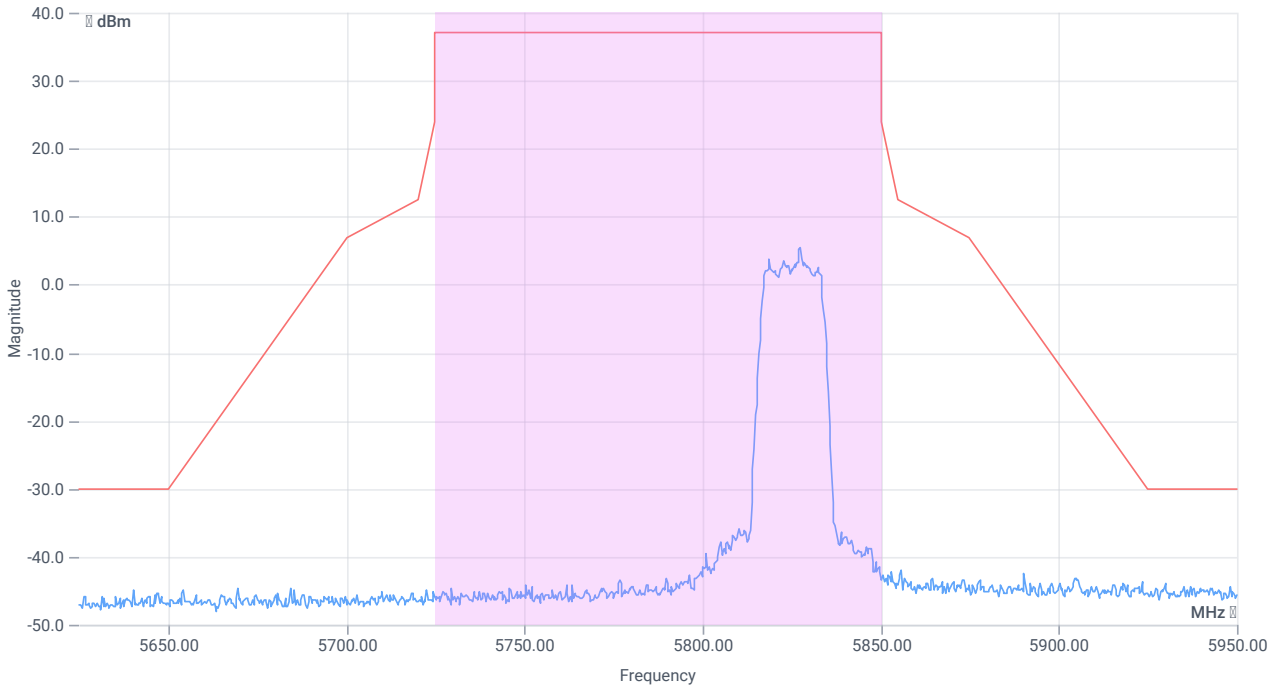
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.18	dBm	INFO
Ref. frequency	---	---	5832.390	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	5.18 | 9.94 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 15:59:05
Ambit temp [°C] | humidity [rel%]	29.6 | 25
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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 5745 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

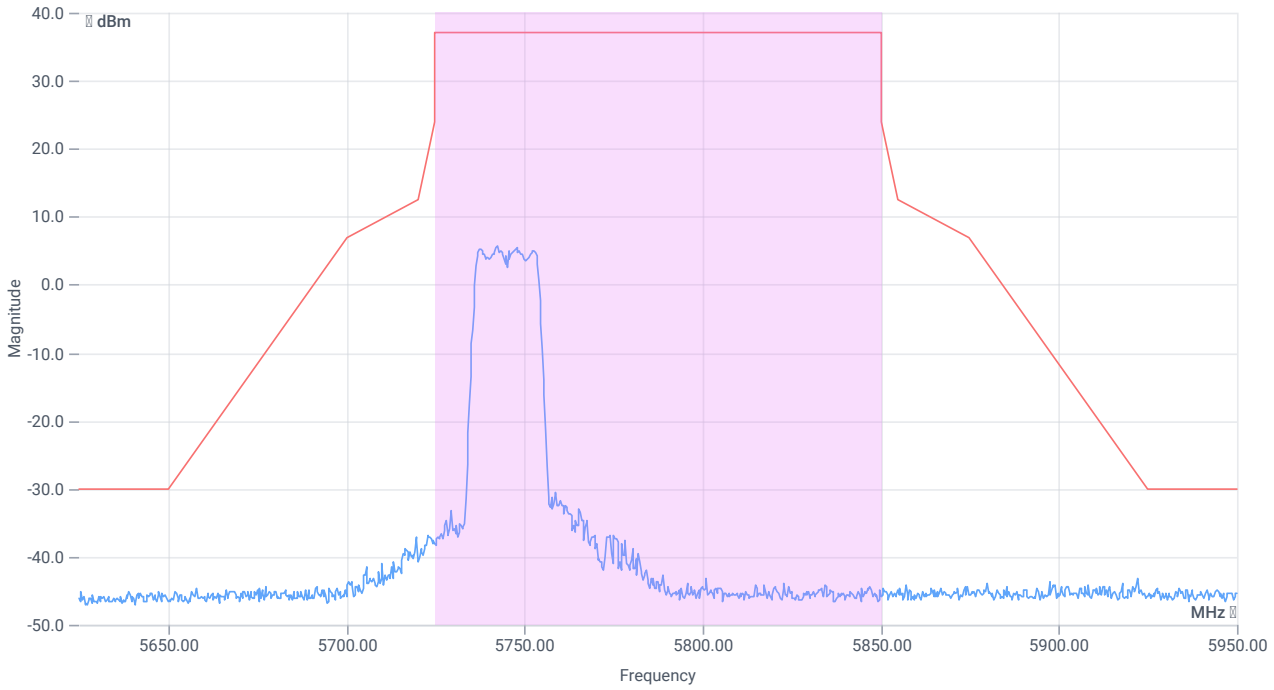
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.18	dBm	INFO
Ref. frequency	---	---	5748.000	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	8.18 | 9.86 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:00:30
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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 5745 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

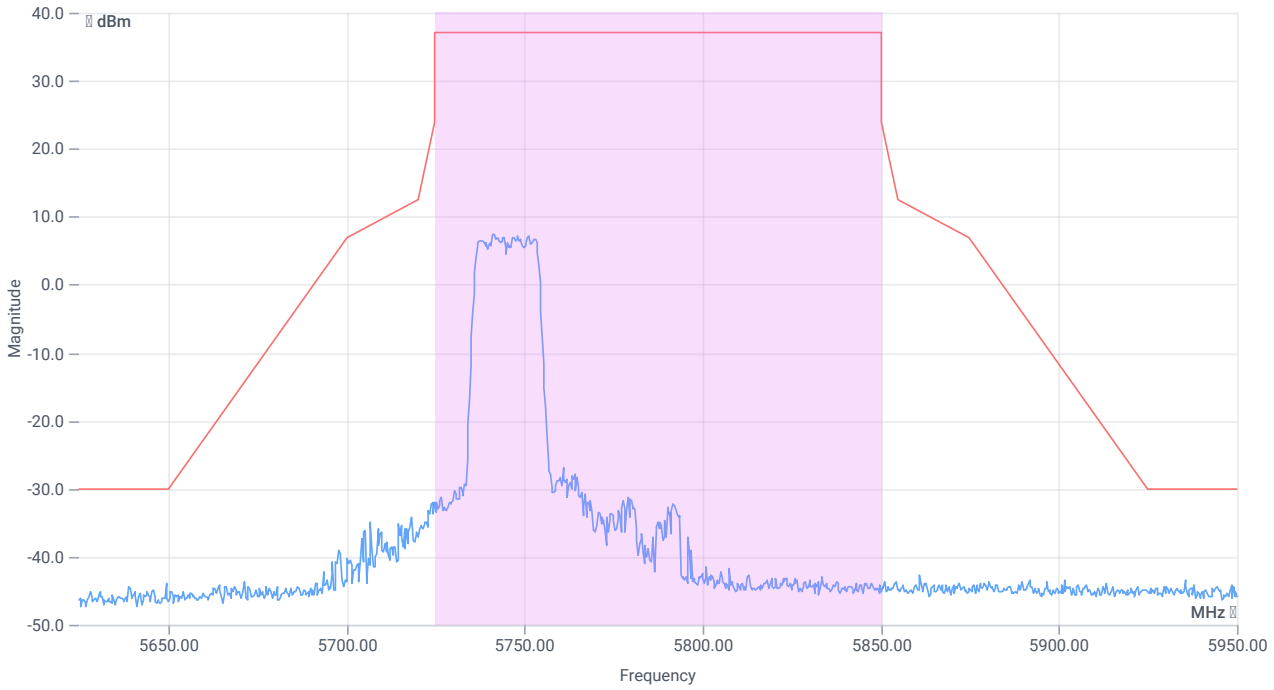
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.07	dBm	INFO
Ref. frequency	---	---	5741.800	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.07 | 9.88 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:02:04
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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 5785 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

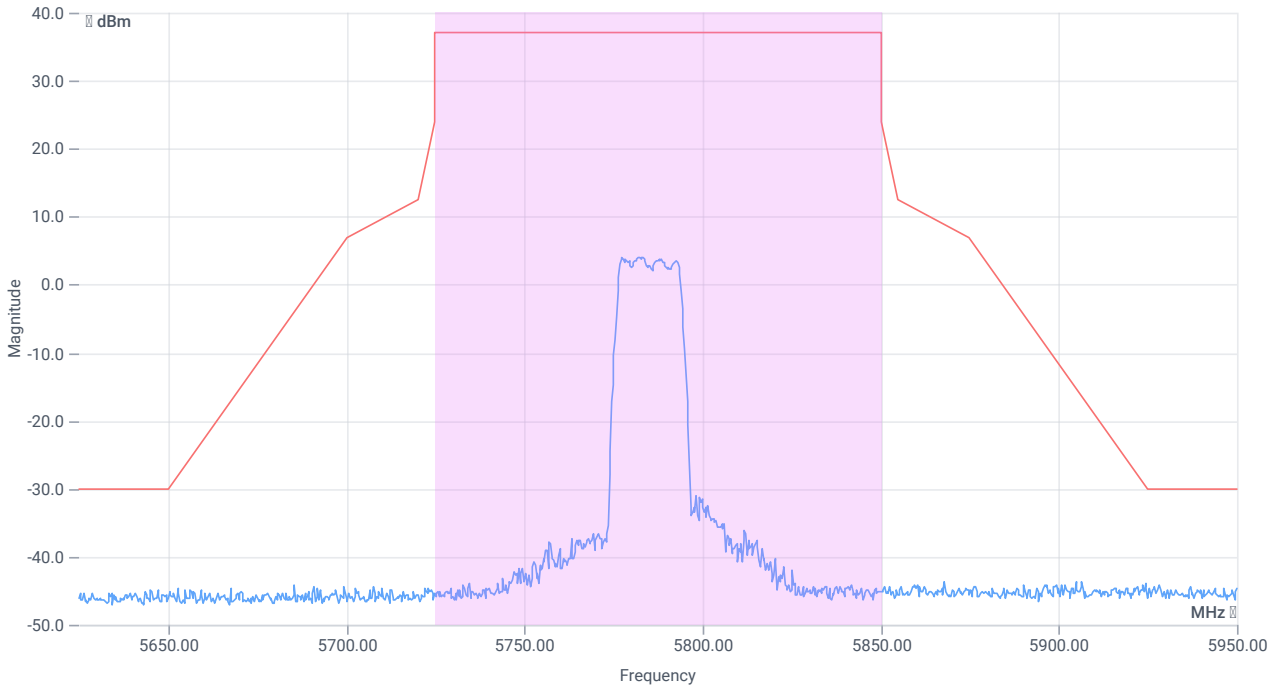
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.35	dBm	INFO
Ref. frequency	---	---	5782.400	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.35 | 9.88 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:03:34
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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 5785 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

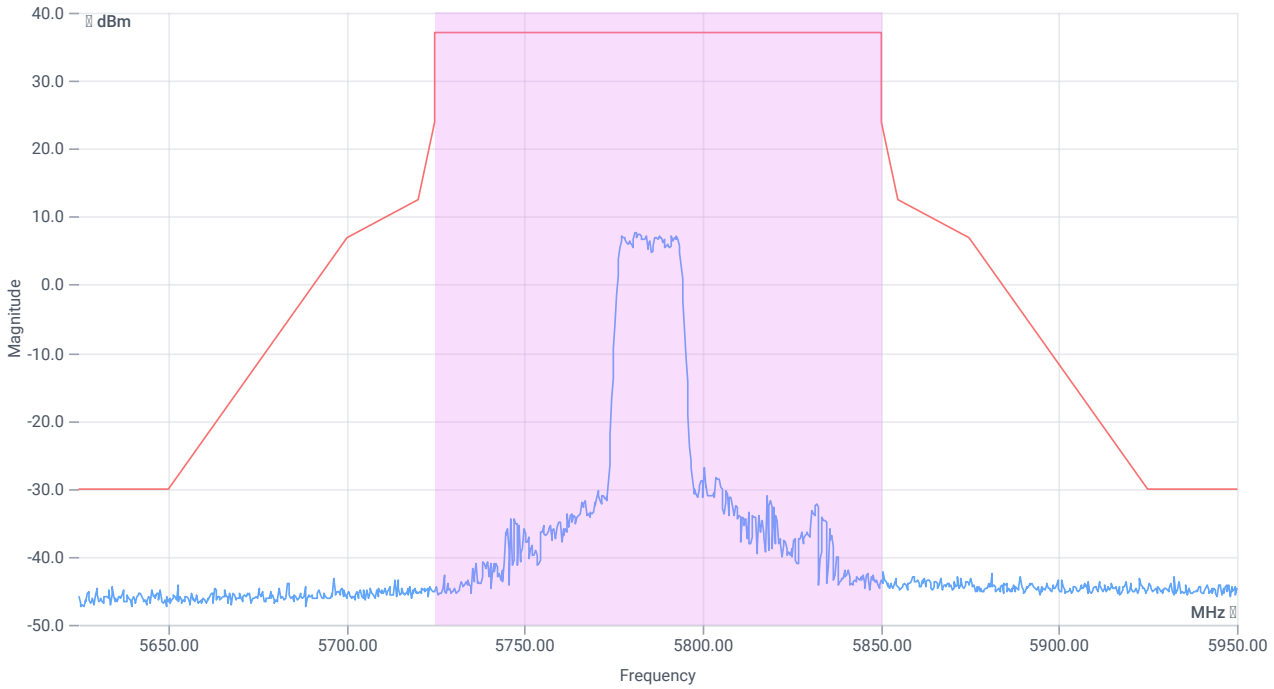
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.63	dBm	INFO
Ref. frequency	---	---	5782.400	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.63 | 9.91 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:04:59
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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 5825 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

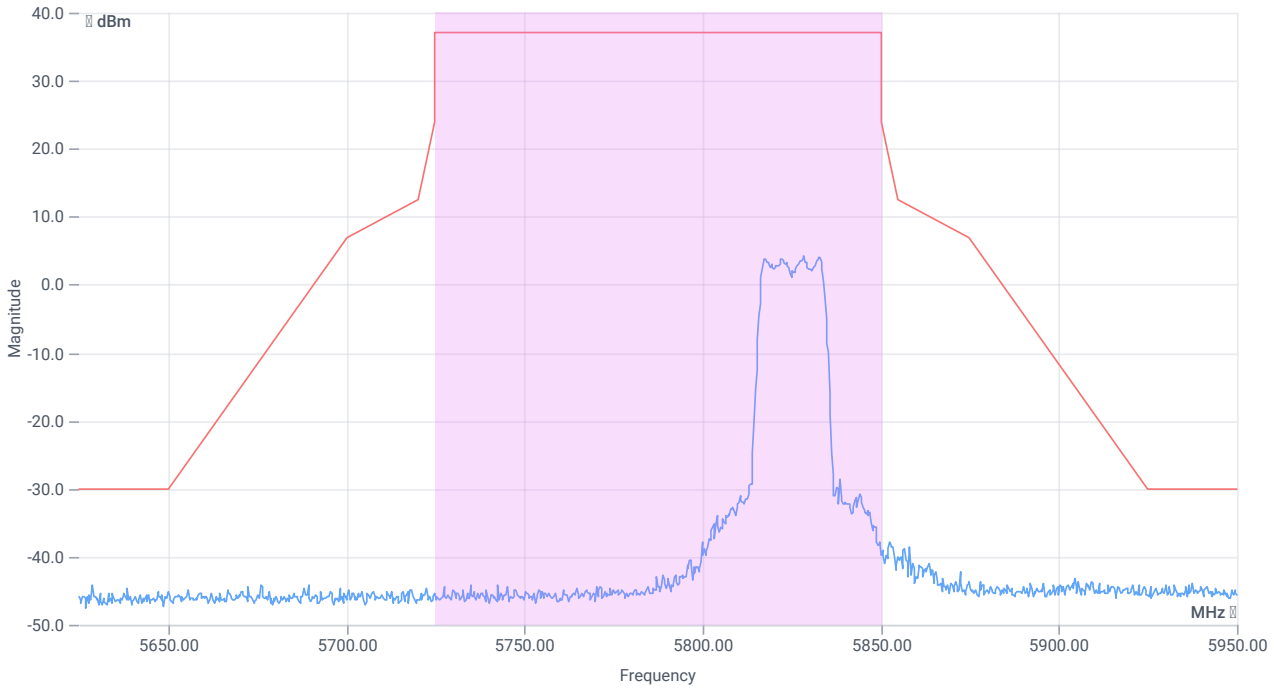
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.28	dBm	INFO
Ref. frequency	---	---	5822.400	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.28 | 9.95 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:06:15
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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 5825 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

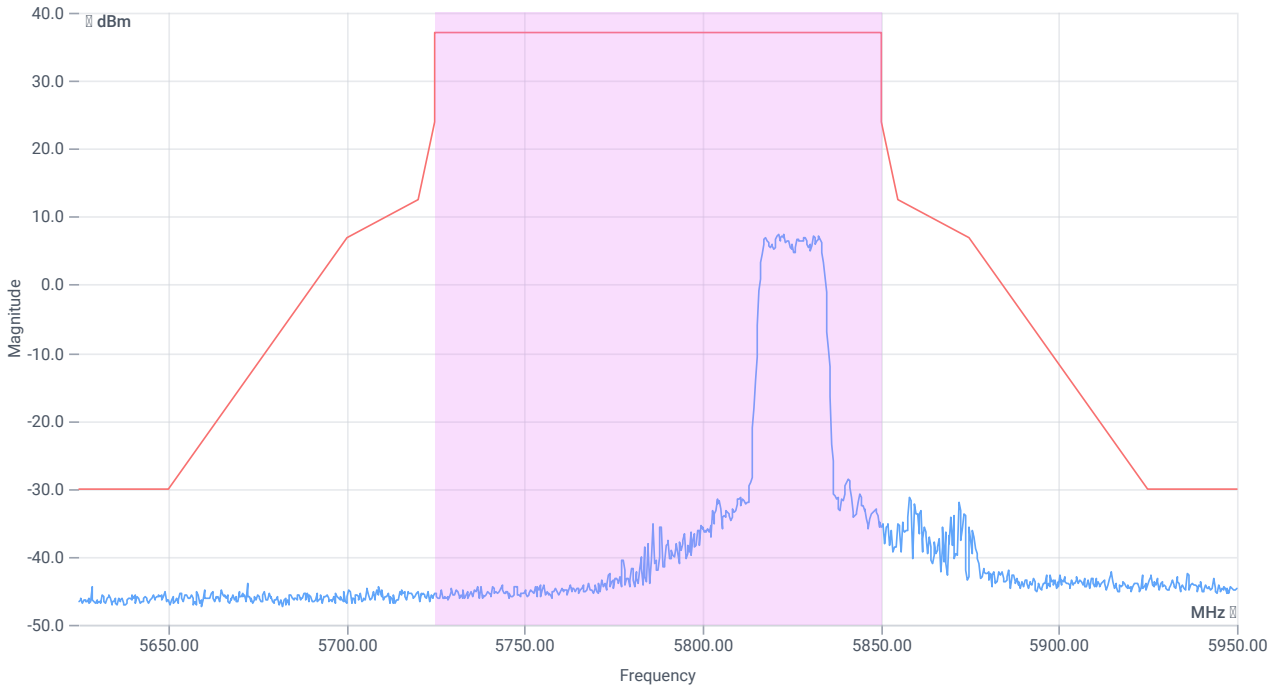
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.72	dBm	INFO
Ref. frequency	---	---	5832.590	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	9.72 | 9.94 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	16.04.2024 16:07:28
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx n-HT40 mode U-NII-3
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)	No

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
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 5755 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

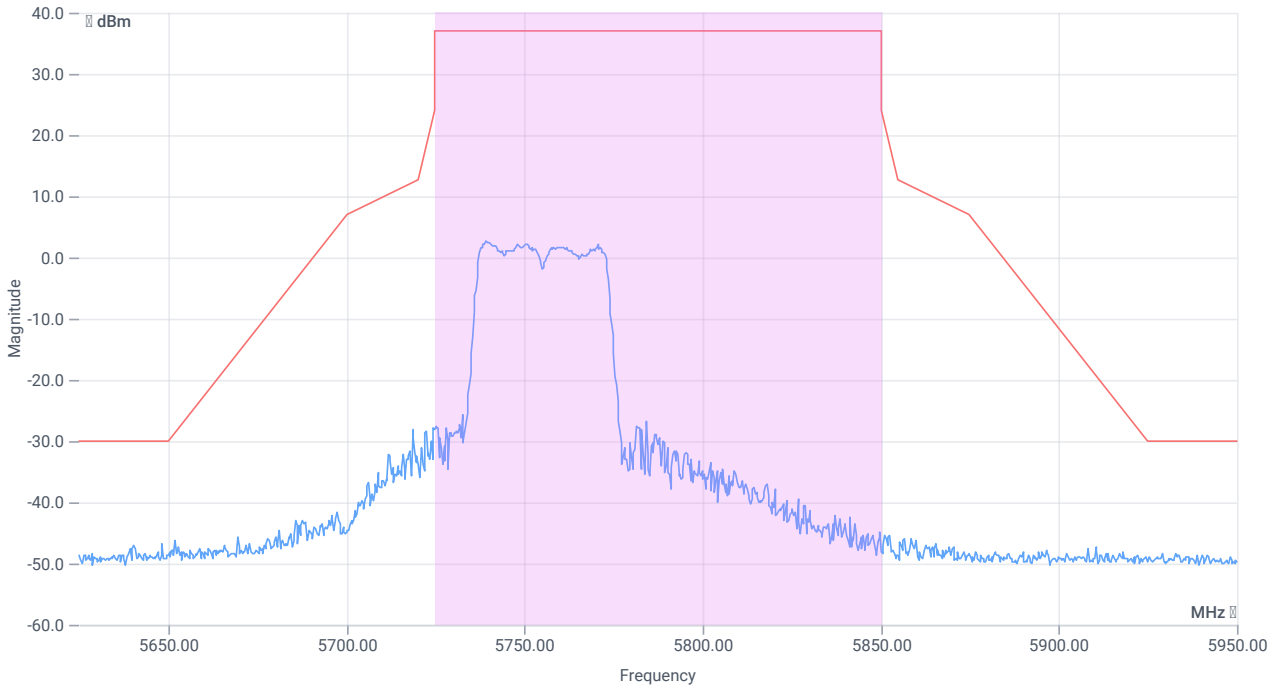
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	1.74	dBm	INFO
Ref. frequency	---	---	5739.220	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	4.74 | 9.89 | 10
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	16.04.2024 16:08:33
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx n-HT40 mode U-NII-3
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)	No

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
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 5755 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

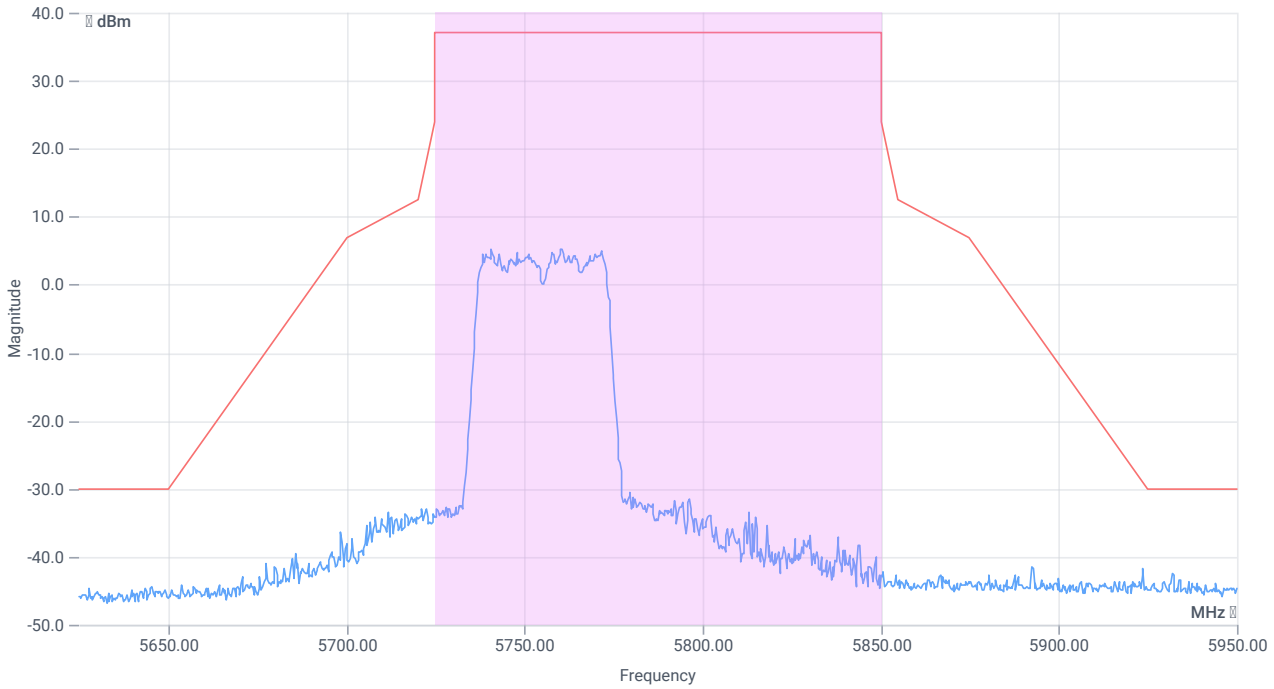
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.87	dBm	INFO
Ref. frequency	---	---	5770.780	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.88 | 9.91 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	16.04.2024 16:09:47
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx n-HT40 mode U-NII-3
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)	No

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
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 5795 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

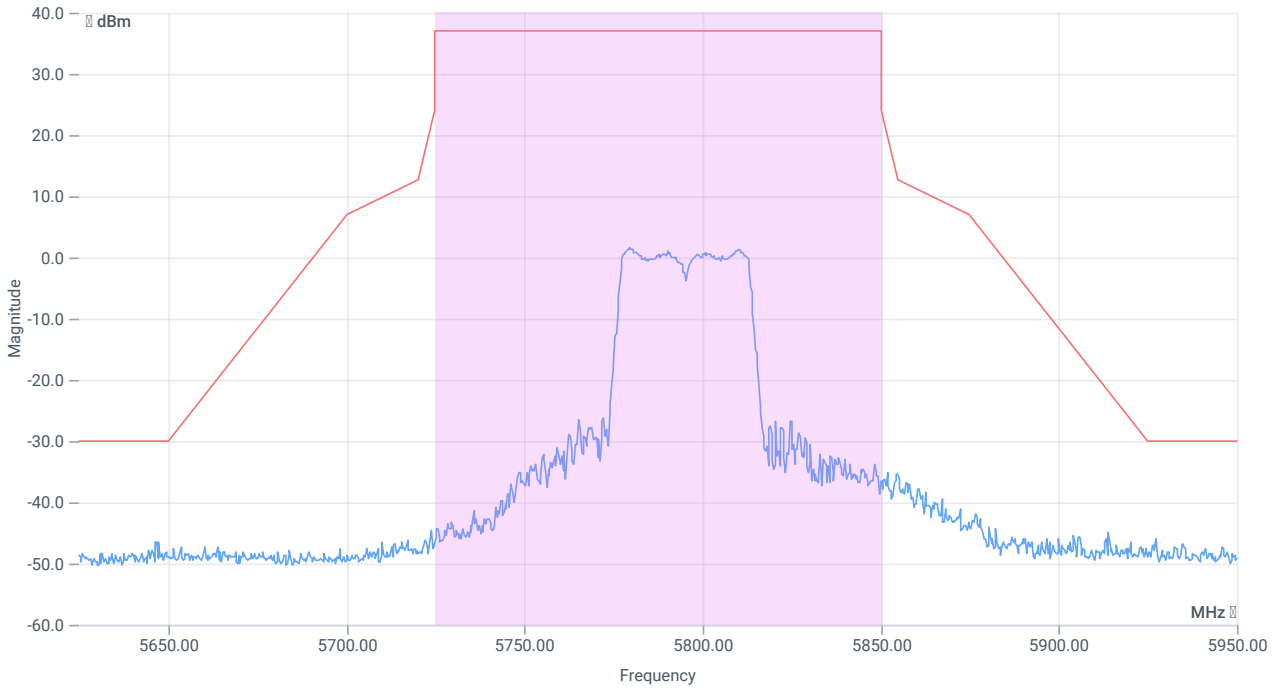
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	0.64	dBm	INFO
Ref. frequency	---	---	5809.190	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	3.64 | 9.87 | 10
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx n-HT40 mode U-NII-3

References

TC start	16.04.2024 16:10:53
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx n-HT40 mode U-NII-3
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)	No

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
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 5795 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

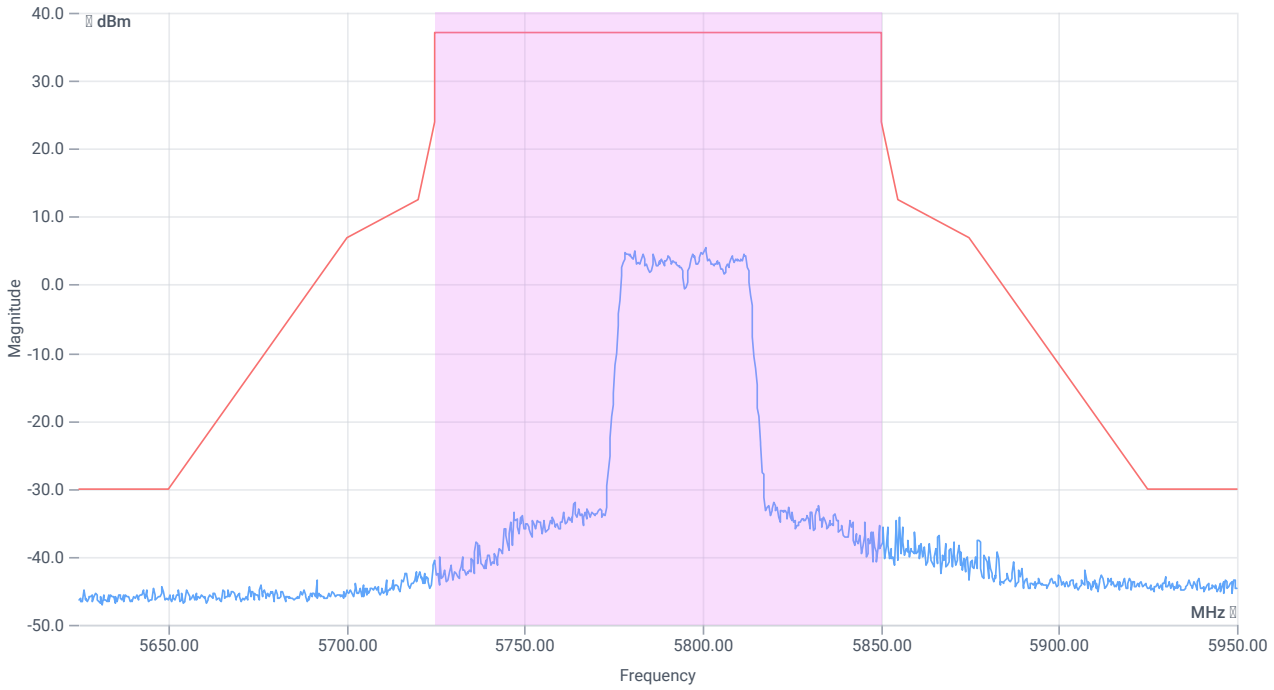
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	3.79	dBm	INFO
Ref. frequency	---	---	5809.390	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	6.79 | 9.91 | 15
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT80 mode U-NII-3

References

TC start	16.04.2024 16:12:12
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT80 mode U-NII-3
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)	No

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
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 5775 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

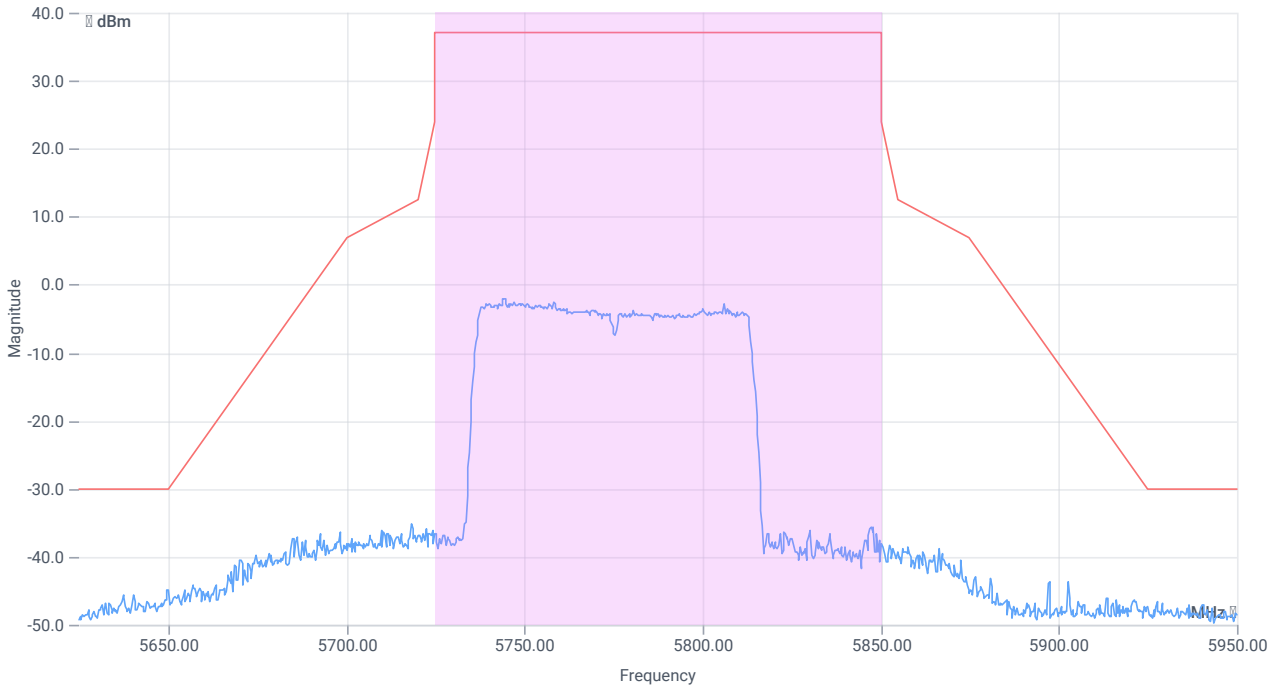
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-3.07	dBm	INFO
Ref. frequency	---	---	5756.820	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	-0.07 | 9.88 | 10
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

FCC 15.407, ISED RSS247 # Emission mask (cond) ~ WLAN5Gx ac-VHT80 mode U-NII-3

References

TC start	16.04.2024 16:13:23
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	NI
Description	FCC 15.407 Emission mask - WLAN5Gx ac-VHT80 mode U-NII-3
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)	No

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
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 5775 MHz

Number of antenna ports: 2

reduction of limit due to number of antenna ports [dB]: 3

RESULT: Reference power cond.

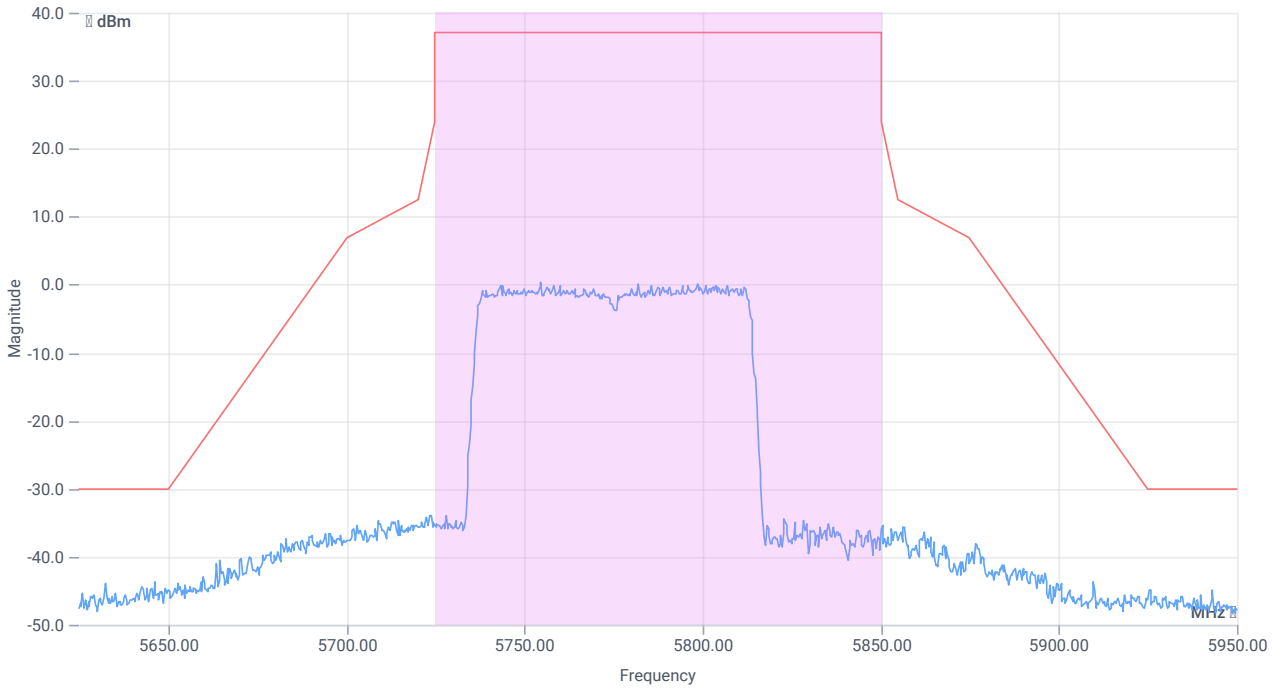
DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.63	dBm	INFO
Ref. frequency	---	---	5759.820	MHz	INFO

Antenna gain

Considered antenna gain [dBi]:	0

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	2.37 | 9.91 | 10
Start [MHz] | Stop [MHz]	5625.000 | 5950.000
RBW [MHz] | VBW [MHz]	1.000000 | 3.000000
Detector | TraceMode	POS | MAXH
Sweep: time [ms] | count | points per Section | type	1 | 2500 | 1001 | SWE



Emission Mask (e.i.r.p)

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT

Verdict
INCON

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

References

TC start	16.04.2024 15:49:37
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

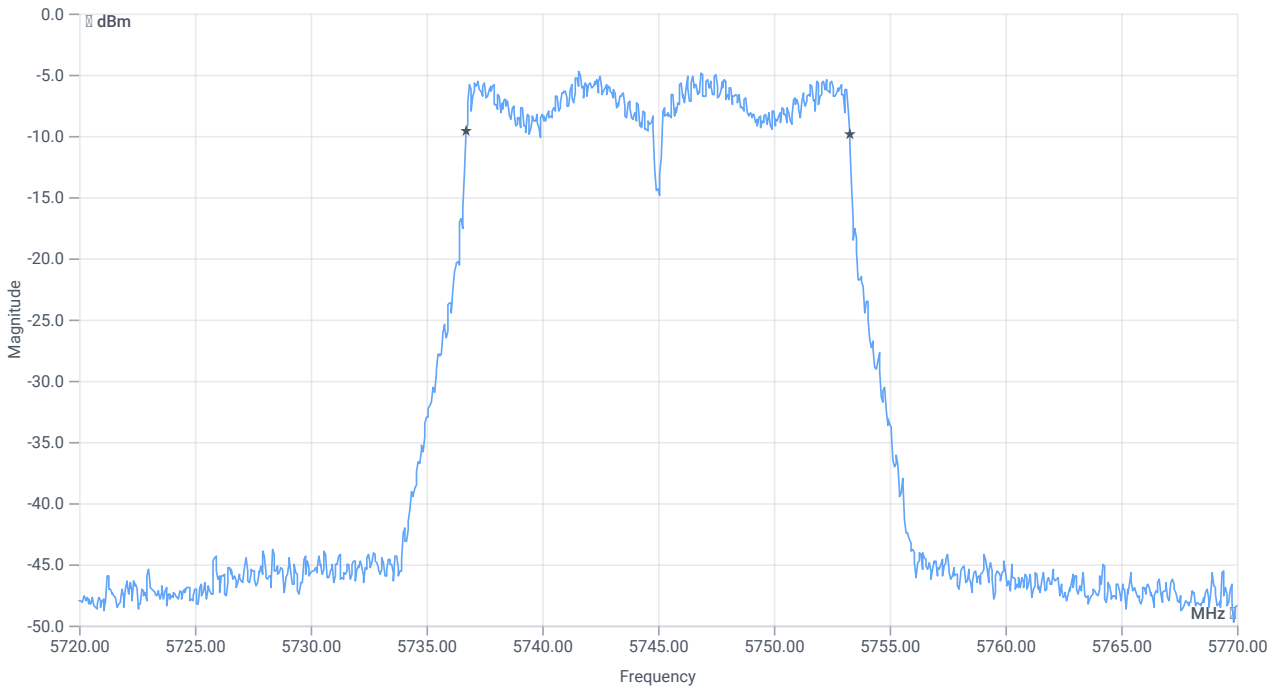
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	5.55	dBm	INFO
Ref. frequency	---	---	5747.600	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	17.55 | 9.86 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	16.55	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 15:51:01
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

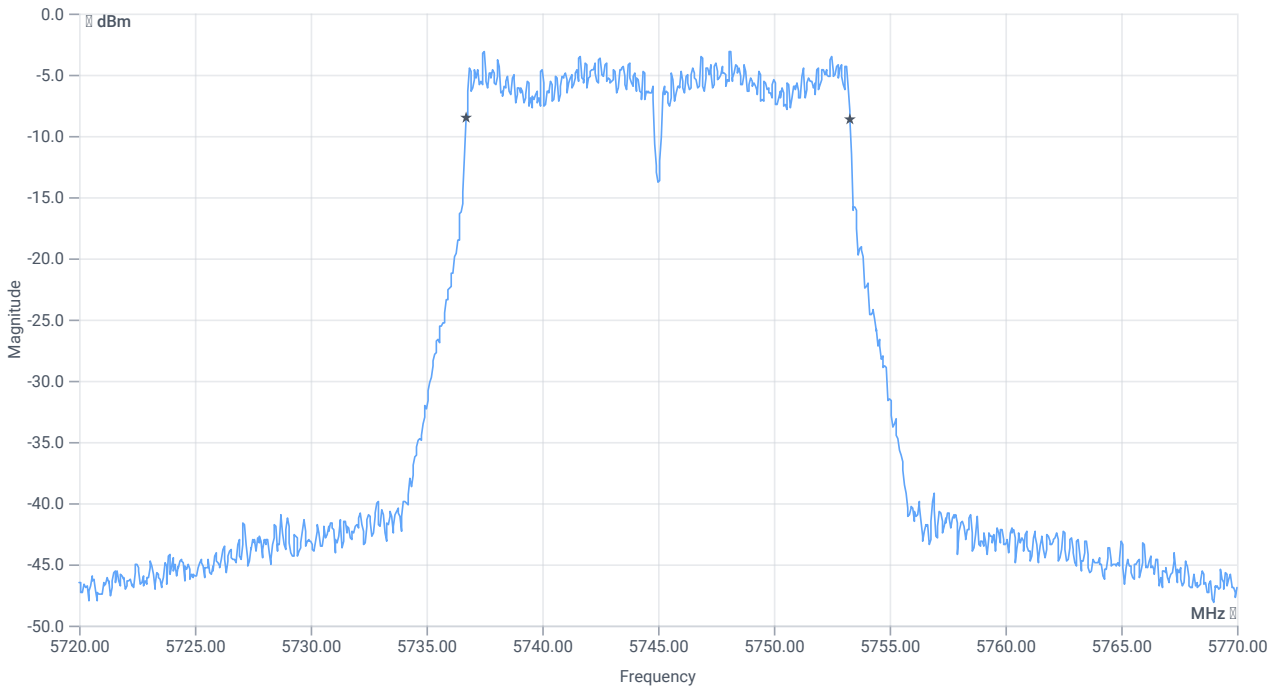
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.97	dBm	INFO
Ref. frequency	---	---	5747.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.97 | 9.88 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	16.6	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 15:52:33
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

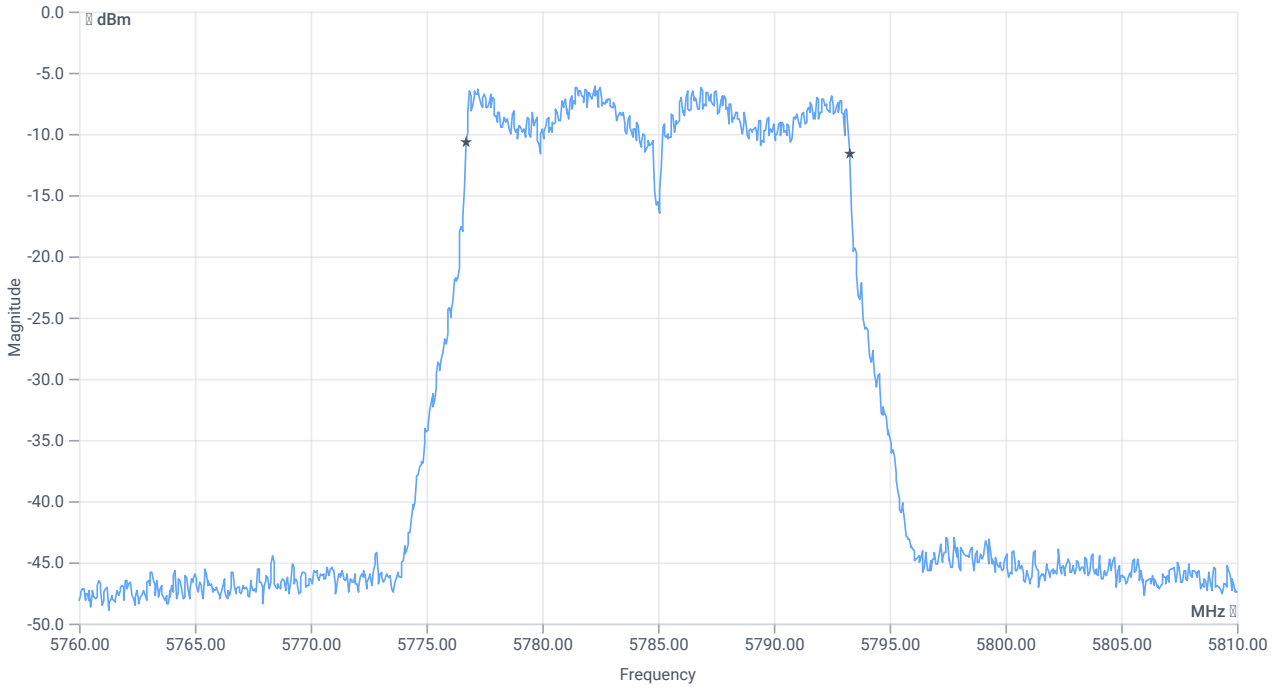
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.77	dBm	INFO
Ref. frequency	---	---	5782.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.77 | 9.88 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	16.55	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 15:54:03
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

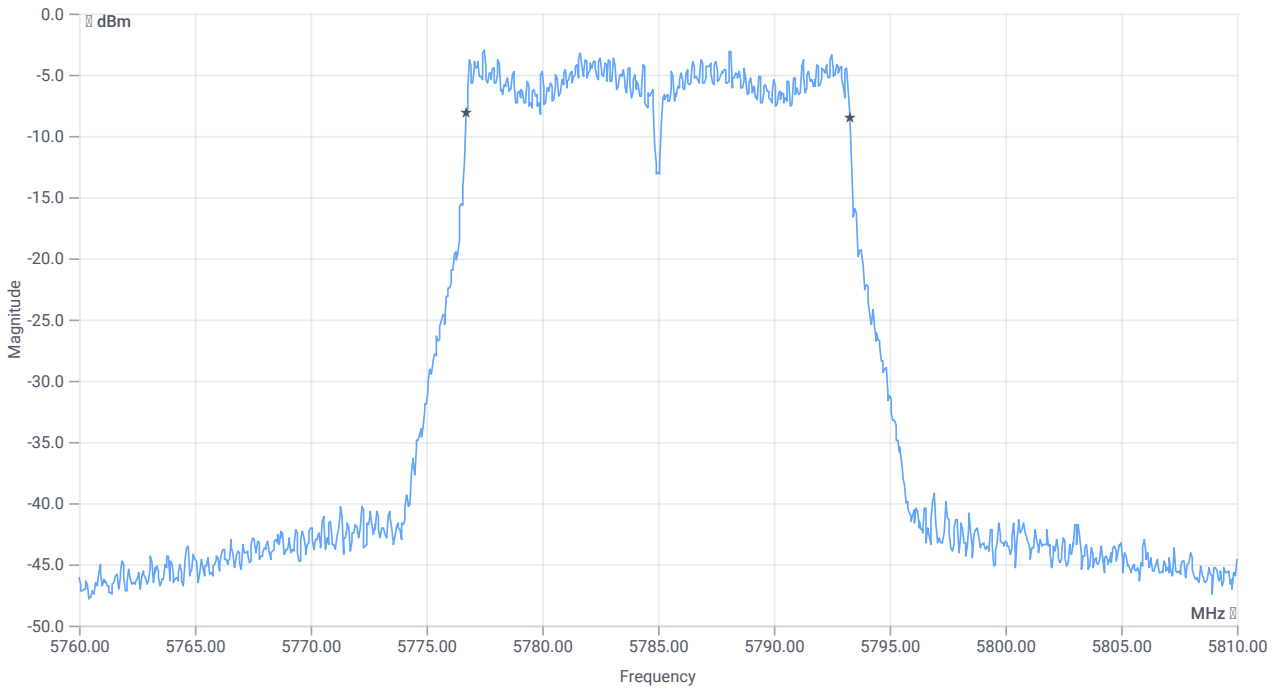
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.73	dBm	INFO
Ref. frequency	---	---	5792.190	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.73 | 9.91 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	16.6	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 15:55:38
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

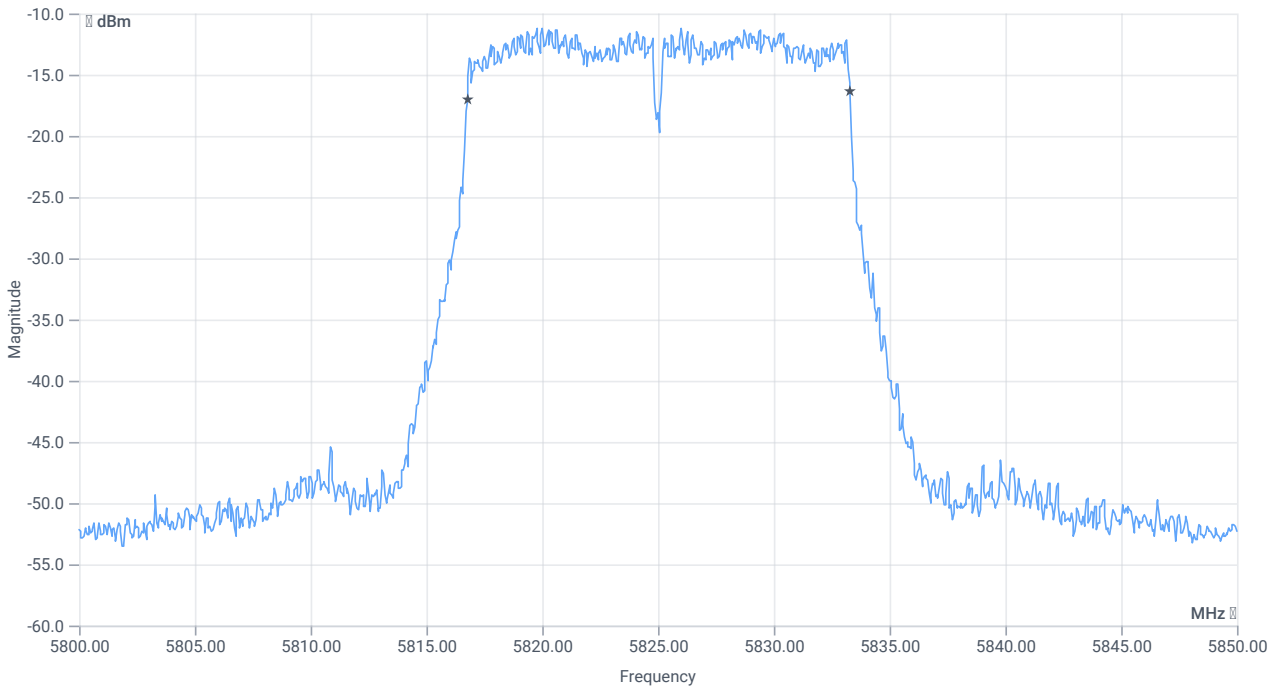
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.52	dBm	INFO
Ref. frequency	---	---	5828.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.48 | 9.95 | 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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	16.55	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 15:56:56
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

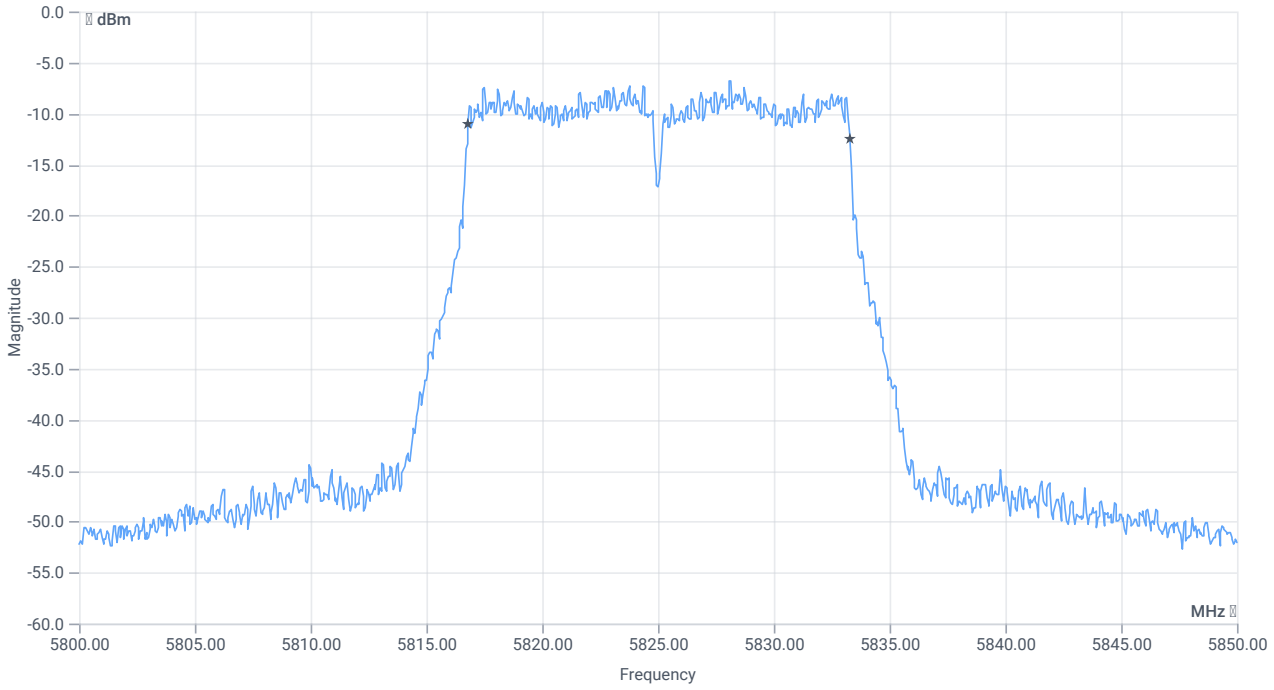
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.08	dBm	INFO
Ref. frequency	---	---	5828.200	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.08 | 9.94 | 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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	16.5	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 15:58:21
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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

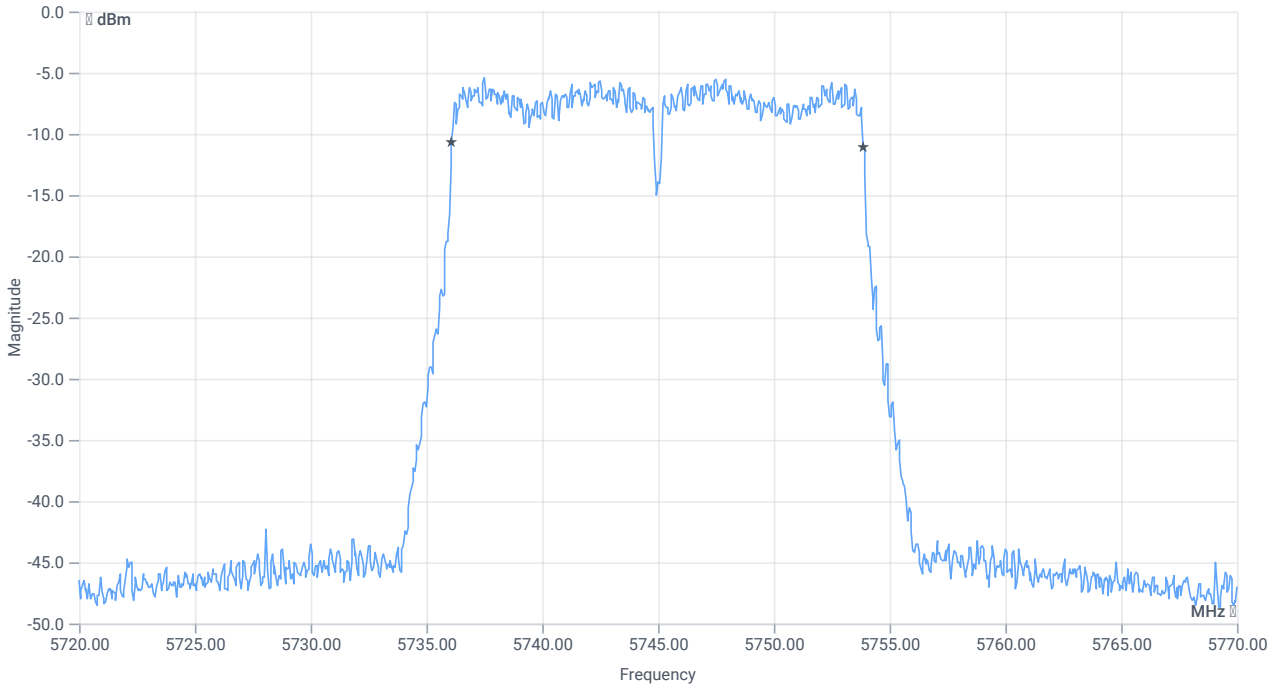
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.06	dBm	INFO
Ref. frequency	---	---	5742.200	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.06 | 9.86 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	17.75	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 15:59:44
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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

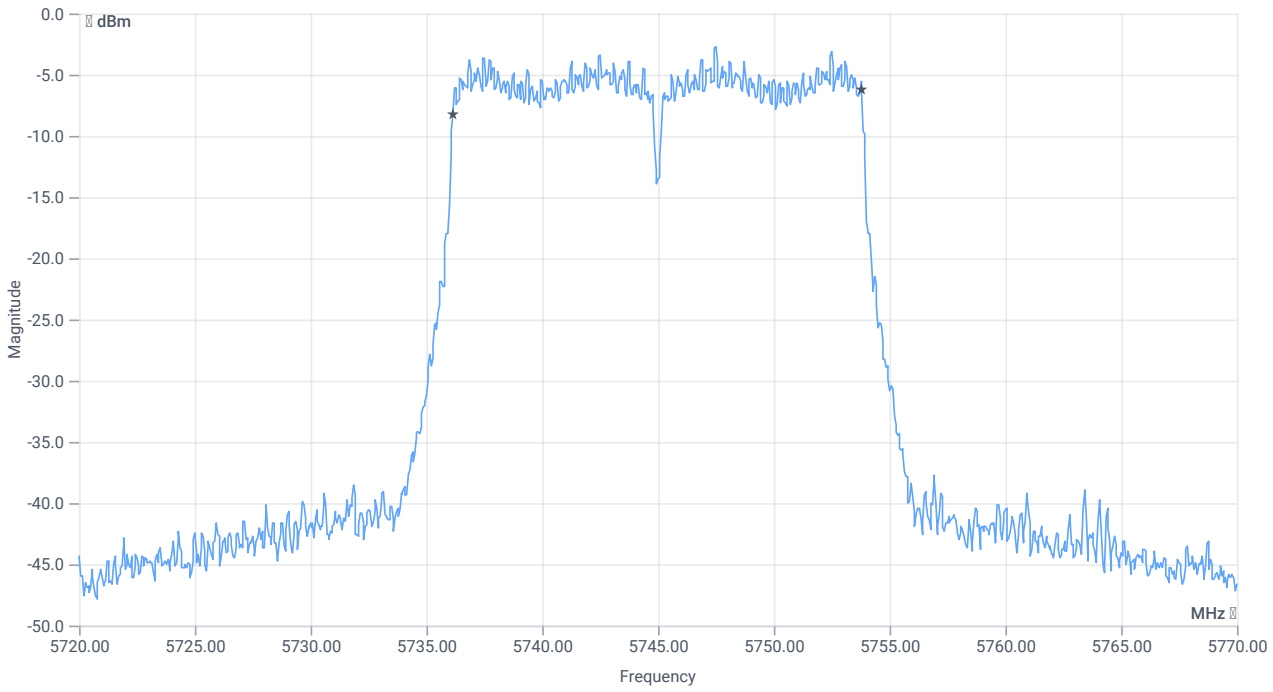
Test at TX 5745 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.80	dBm	INFO
Ref. frequency	---	---	5750.990	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.80 | 9.88 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	17.65	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:01:16
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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

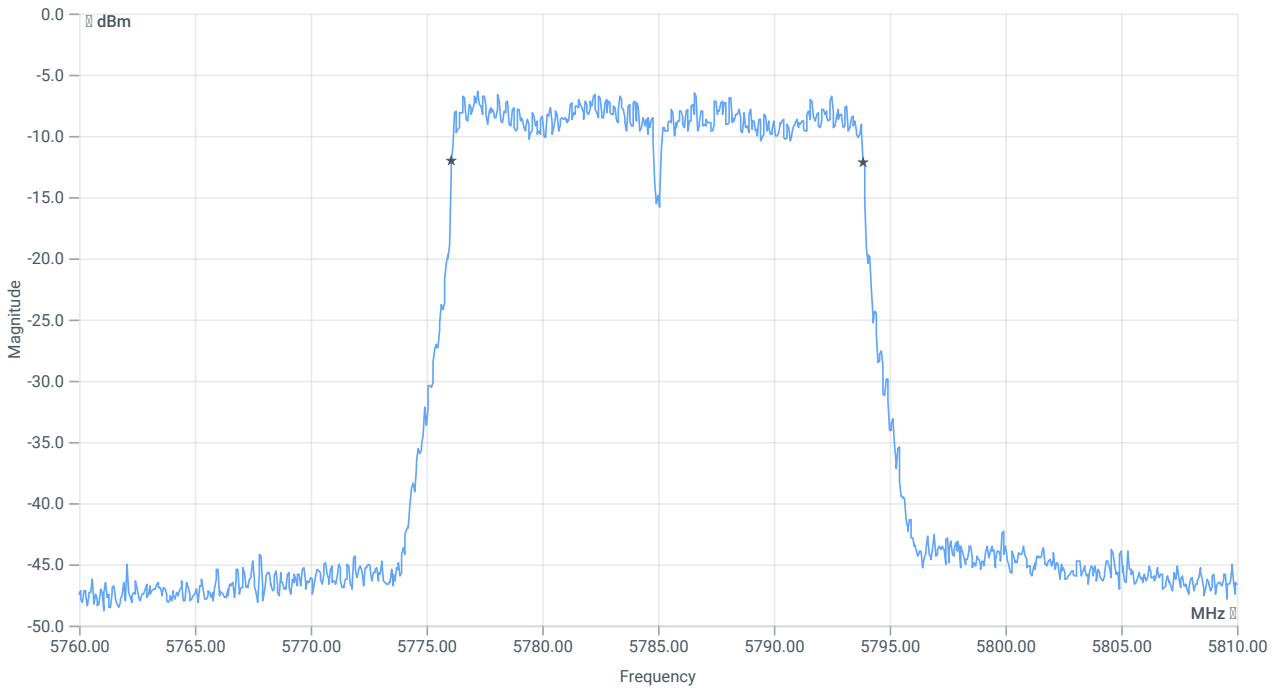
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.07	dBm	INFO
Ref. frequency	---	---	5782.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.07 | 9.88 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	17.75	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:02:46
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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

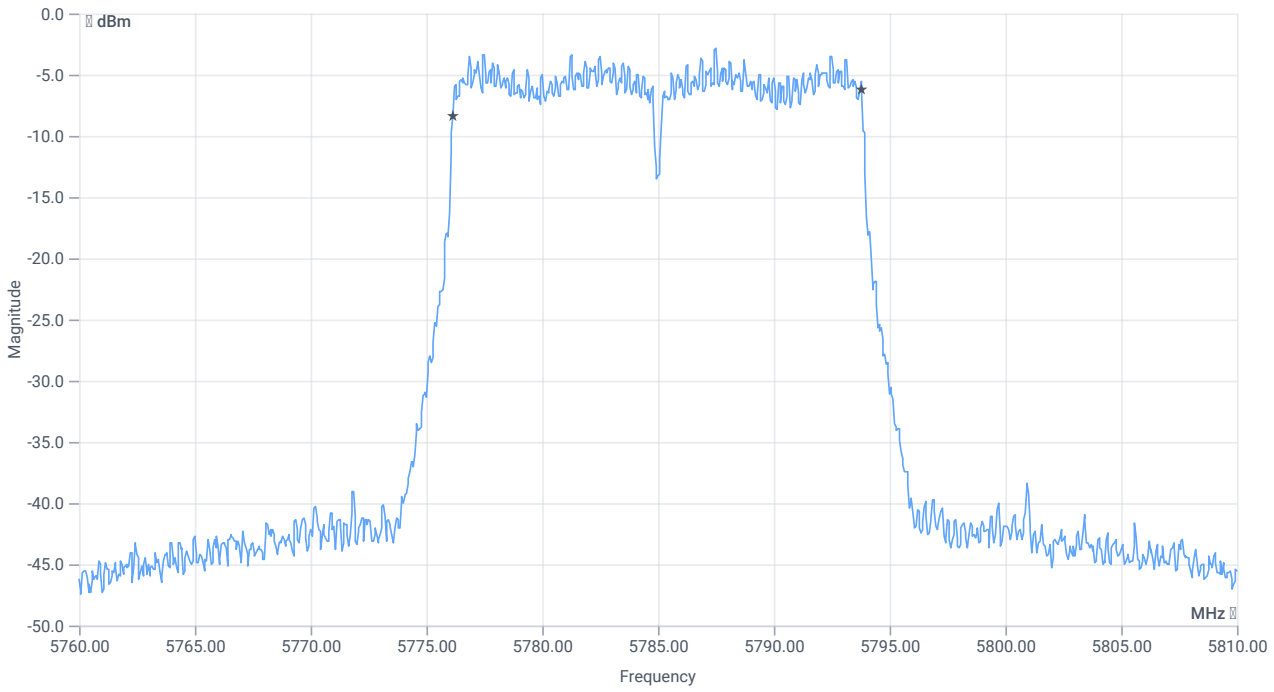
Test at TX 5785 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.73	dBm	INFO
Ref. frequency	---	---	5787.000	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.73 | 9.91 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	17.65	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:04:20
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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

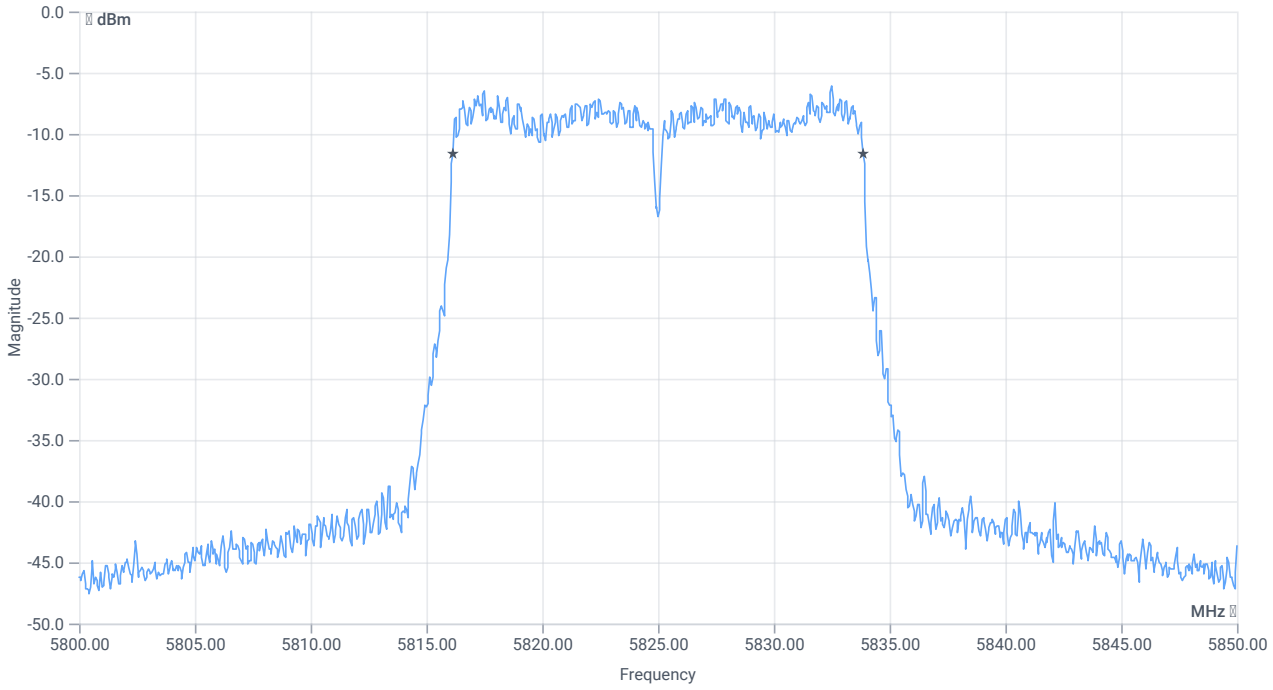
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.19	dBm	INFO
Ref. frequency	---	---	5832.590	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.19 | 9.95 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	17.7	MHz	PASS

Verdict

PASS

FCC 15.407, ISED RSS247 # Minimum emission bandwidth ~ WLAN5Gx ac-VHT20 mode U-NII-3

References

TC start	16.04.2024 16:05:39
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
Standard | Version	FCC 15.407, ISED RSS247 | NI
Method	KDB789033 D02, C.2.
Description	FCC 15.407 Min Emission Bandwidth - WLAN5Gx ac-VHT20 mode U-NII-3
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)	No

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-VHT20 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
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

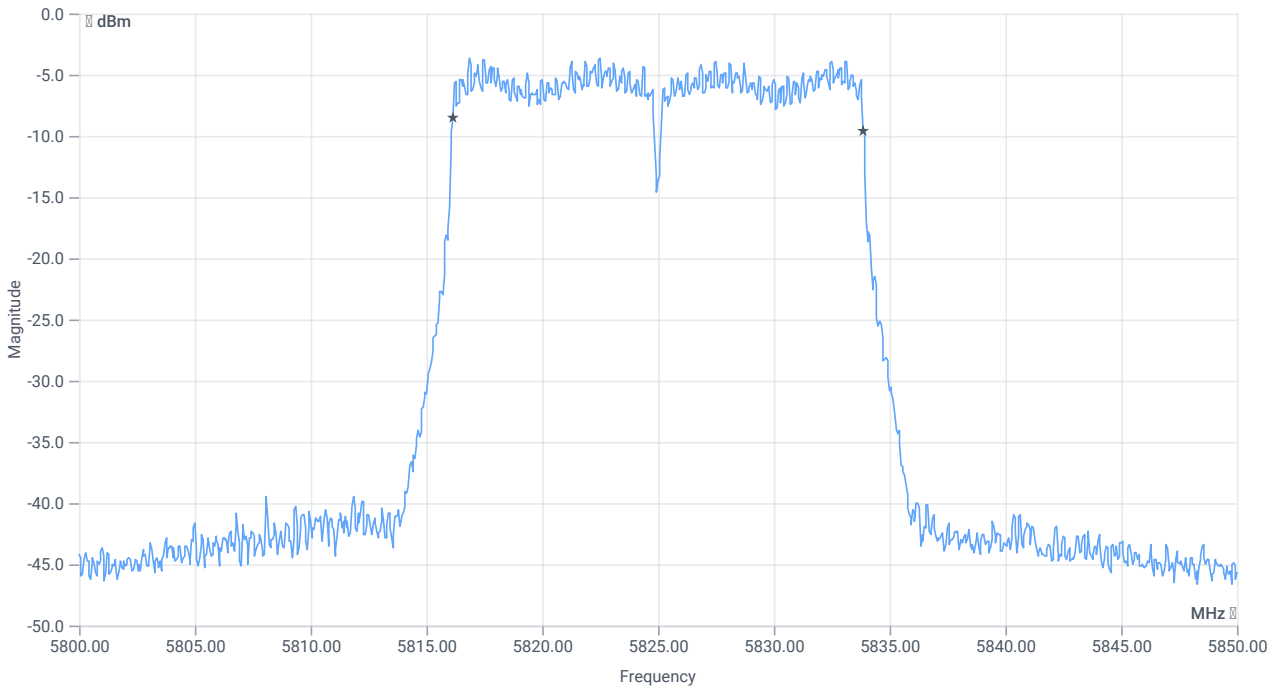
Test at TX 5825 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	6.92	dBm	INFO
Ref. frequency	---	---	5823.800	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	18.92 | 9.94 | 25
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	17.7	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 16:07:04
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

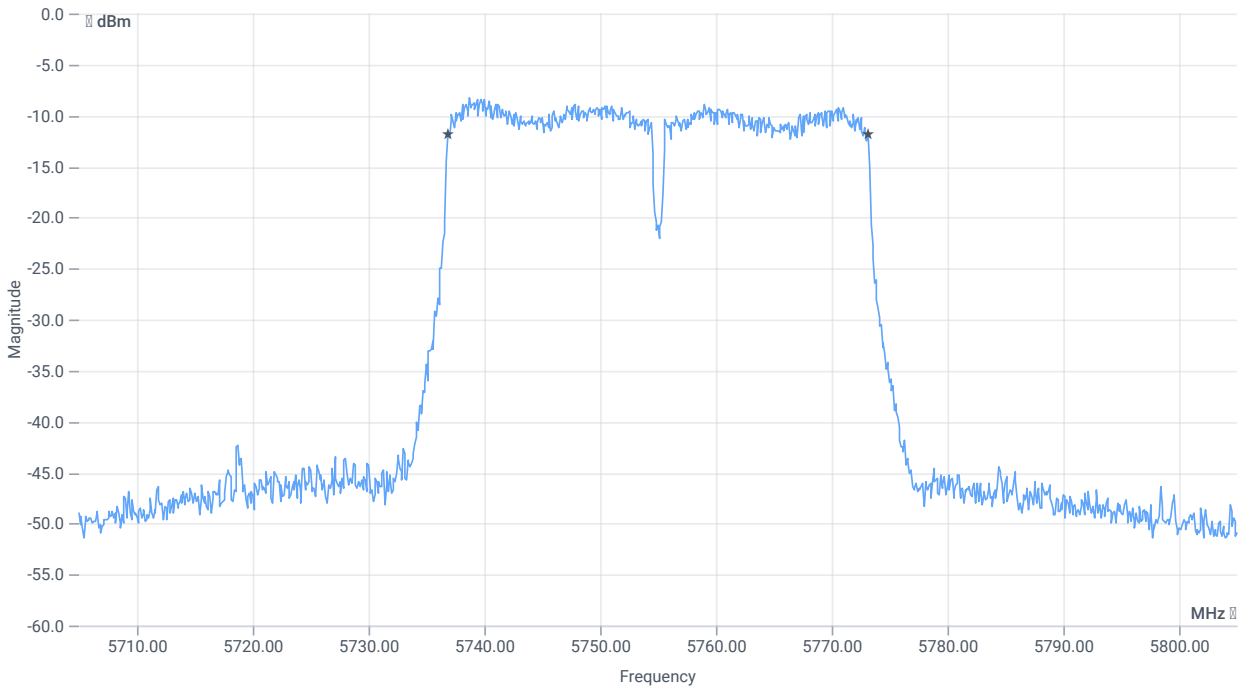
Test at TX 5755 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	2.77	dBm	INFO
Ref. frequency	---	---	5739.620	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	14.77 | 9.89 | 20
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



BW 6dB

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	16.04.2024 16:08:08
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

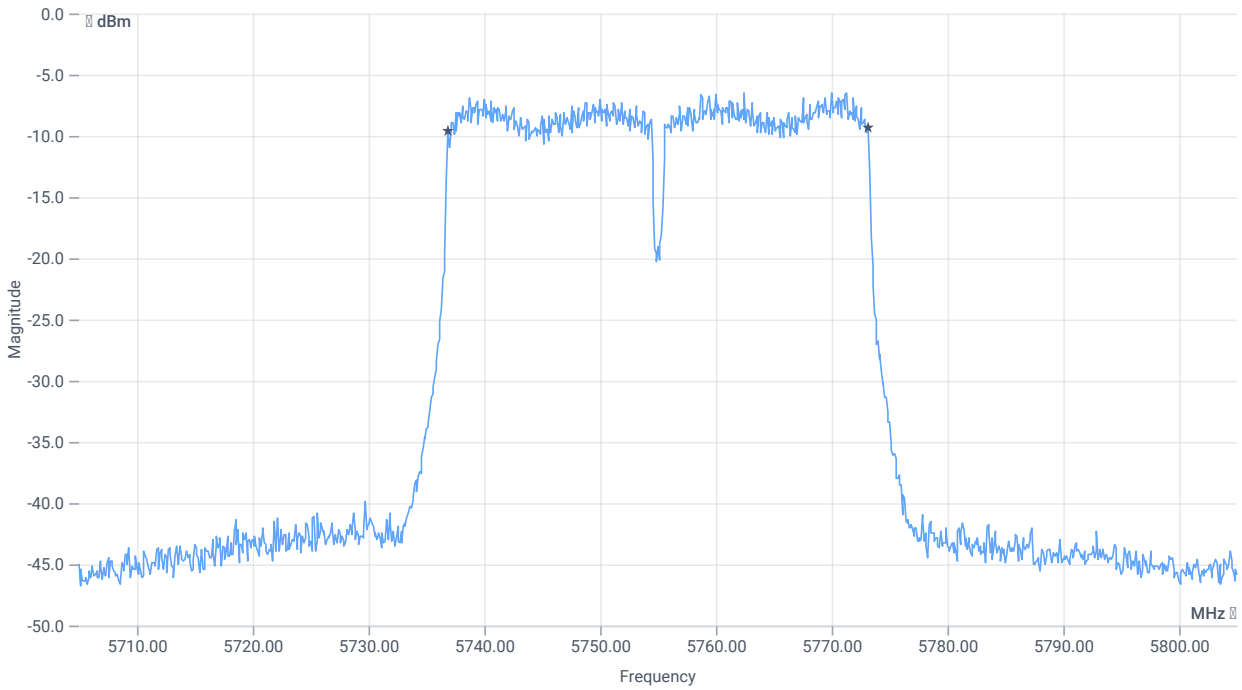
Test at TX 5755 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.19	dBm	INFO
Ref. frequency	---	---	5759.400	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.19 | 9.91 | 25
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



BW 6dB

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	16.04.2024 16:09:22
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

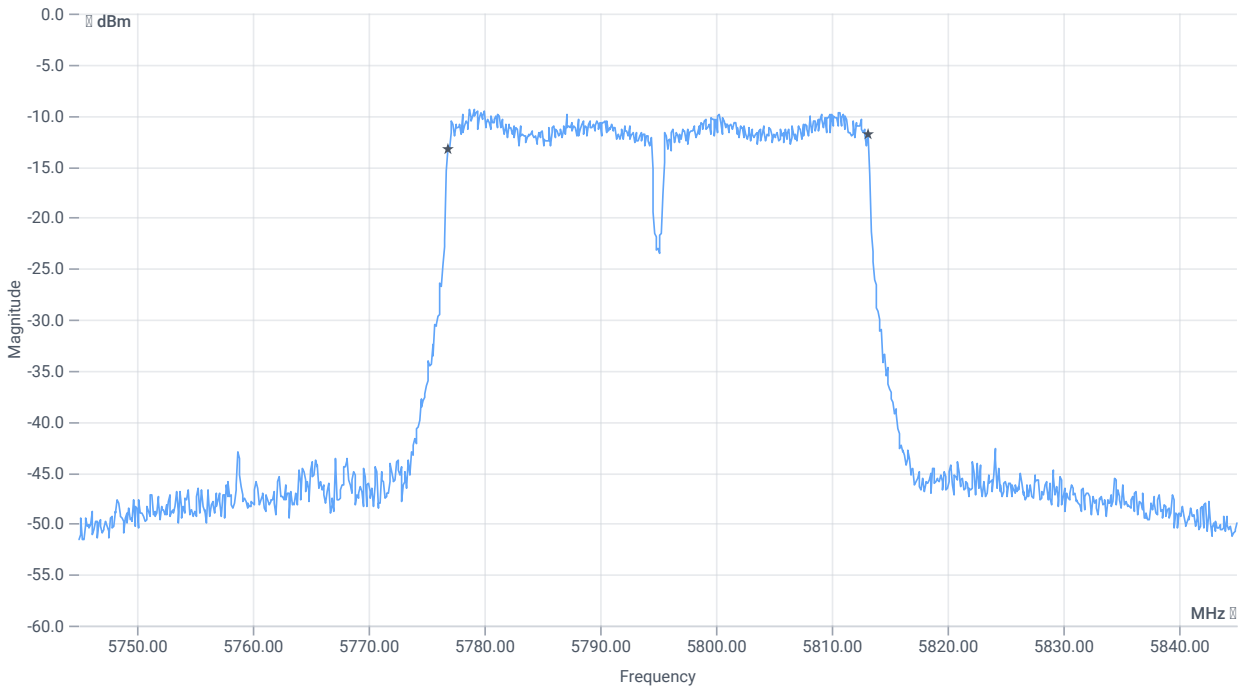
Test at TX 5795 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	0.36	dBm	INFO
Ref. frequency	---	---	5810.580	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	12.36 | 9.87 | 20
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



BW 6dB

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	16.04.2024 16:10:28
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

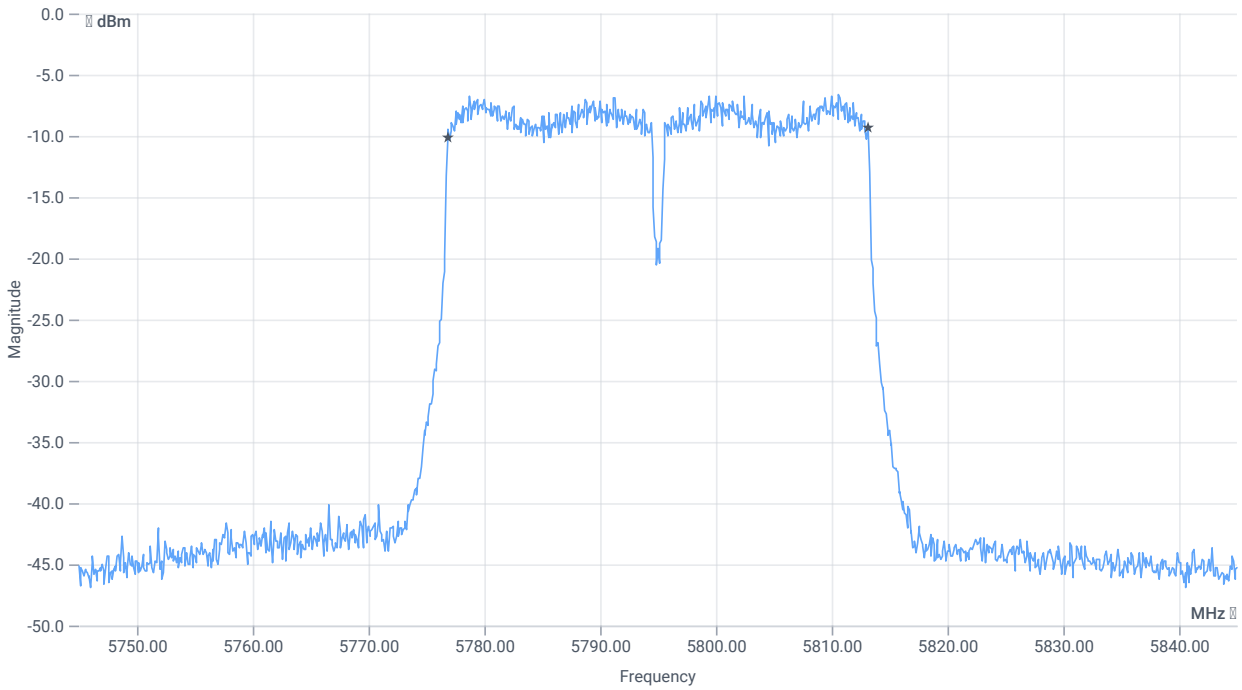
Test at TX 5795 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	4.85	dBm	INFO
Ref. frequency	---	---	5800.390	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	16.85 | 9.91 | 25
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



BW 6dB

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 ac-VHT80 mode U-NII-3

References

TC start	16.04.2024 16:11:42
Ambit temp [°C] | humidity [rel%]	29.7 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

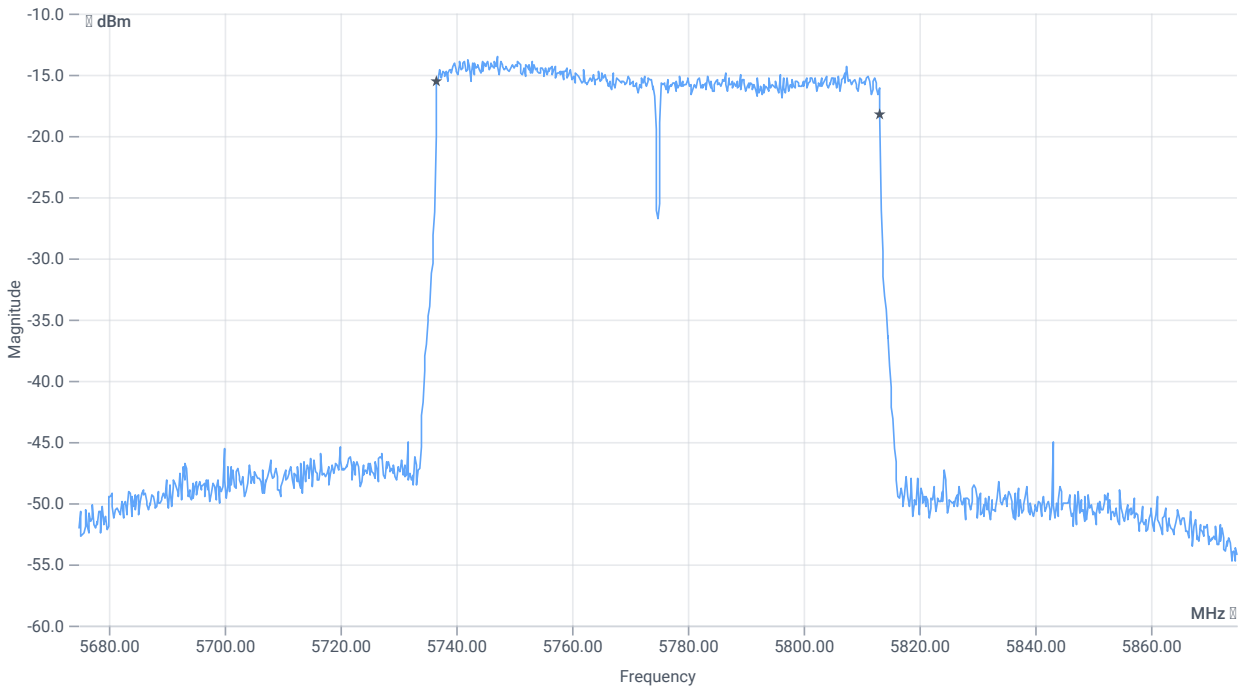
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-3.14	dBm	INFO
Ref. frequency	---	---	5748.830	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	8.86 | 9.88 | 15
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	76.6	MHz	PASS

Verdict

PASS

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

References

TC start	16.04.2024 16:12:52
Ambit temp [°C] | humidity [rel%]	29.6 | 26
System version	5.0.3.9
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	2
User Interaction	No
Device class U-NII-1 (FCC)	Client
Limit W52 japan	Standard
TPC supported	No
Vehicle use (ISED)	No

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
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

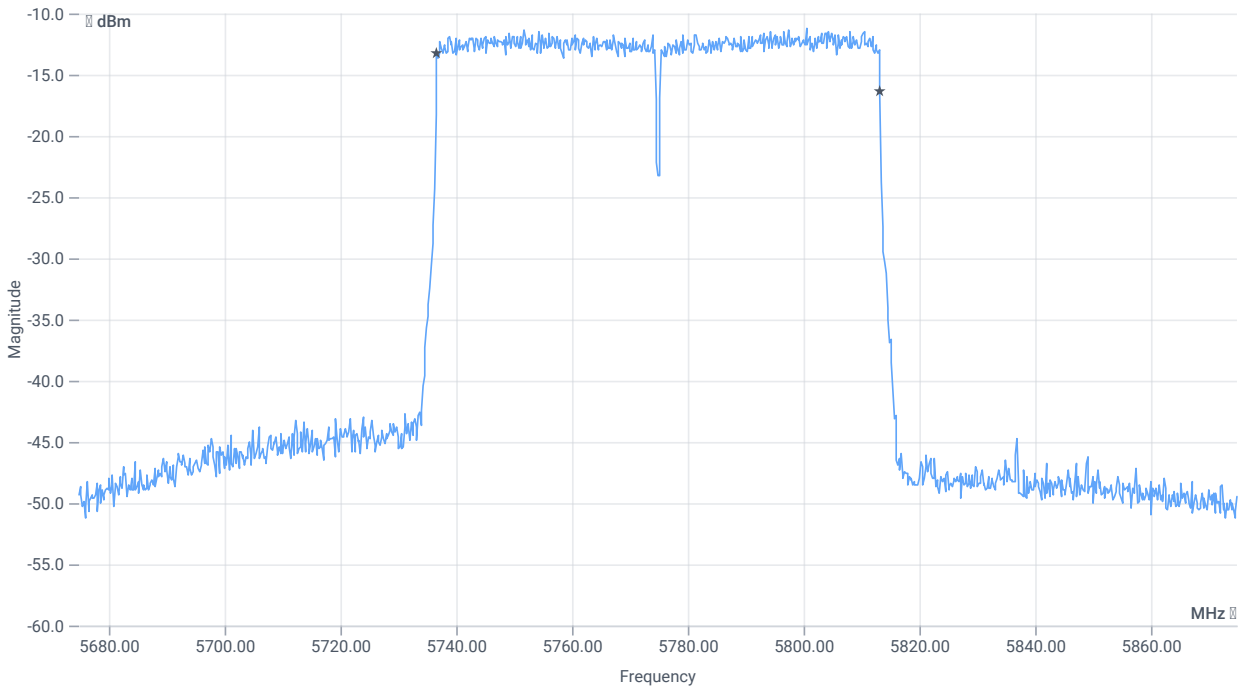
Test at TX 5775 MHz

RESULT: Reference power cond.

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Ref. power 1MHz/1MHz cond.	---	---	-0.63	dBm	INFO
Ref. frequency	---	---	5757.820	MHz	INFO

READ SA SETTINGS:

RefLevel [dBm] | RefLevelOffset [dB] | InpAtt [dB]	11.37 | 9.91 | 20
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



BW 6dB

RESULT

DESCRIPTION	LOWER LIMIT	UPPER LIMIT	MEASURED	UNIT	VERDICT
Bandwidth (6dB)	0.500	---	76.6	MHz	PASS

Verdict

PASS

- END OF DOCUMENT -