

Measurement Results

No.1-1654/20-01-02_Annex_MR_A1.pdf

Test logging

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EUT Information

EUT DEFINITION

Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial Number Setup Number	622 1.0
Version SW FW HW	NI NI NI
Comment 1 2	
Temperature [°C] Min Nom Max	-40 20 70
Voltage [V] Min Nom Max @Current Max [A]	16 24 30 1

§90.209 Bandwidth limitations / 99%BW - 6 MBit/s OFDM - 4950 MHz

Test References

TC Start	08.04.2021 08:33:37
Ambit Temp [°C] Humidity [rel%]	24.5 20
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	99%BW_1MHz_A1_4950

IUT DEFINITION & Common settings

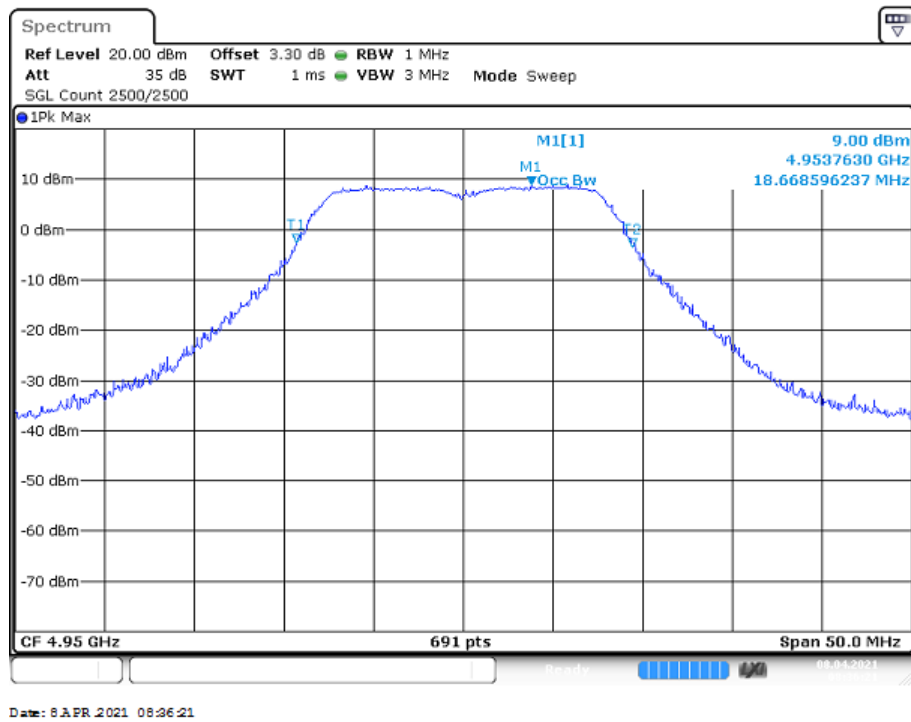
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter

Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.00 3.3 35
Start [MHz] Stop [MHz]	4925.000 4975.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 691 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4953.763000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

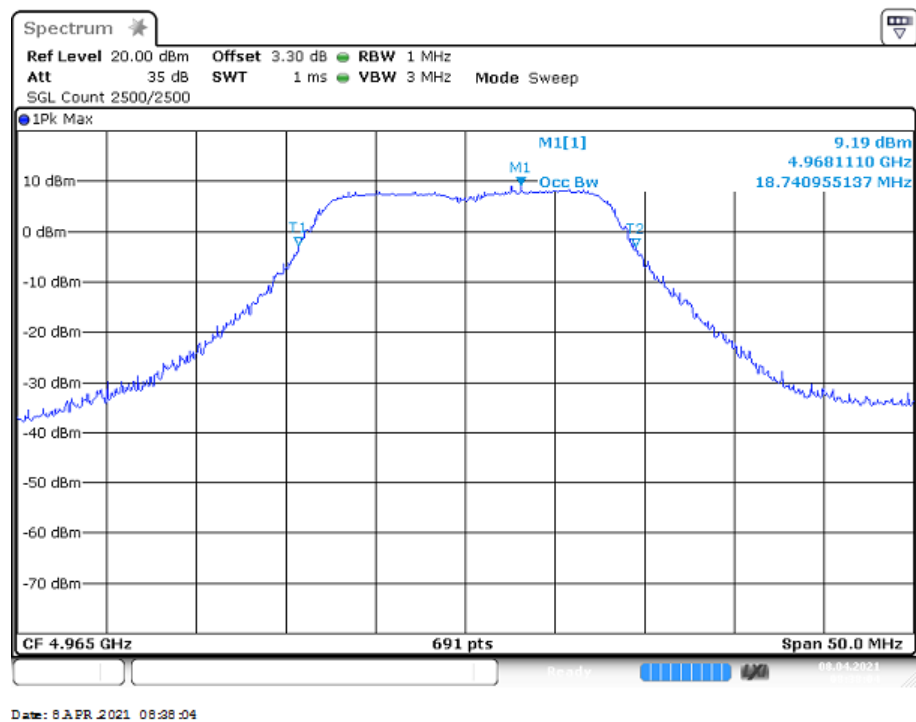
§90.209 Bandwidth limitations / 99%BW - 6 MBit/s OFDM - 4965 MHz

Test References	
TC Start	08.04.2021 08:35:21
Ambit Temp [°C] Humidity [rel%]	24.6 20
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	99%BW_1MHz_A1_4965

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.00 3.3 35
Start [MHz] Stop [MHz]	4940.000 4990.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 691 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4968.111000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

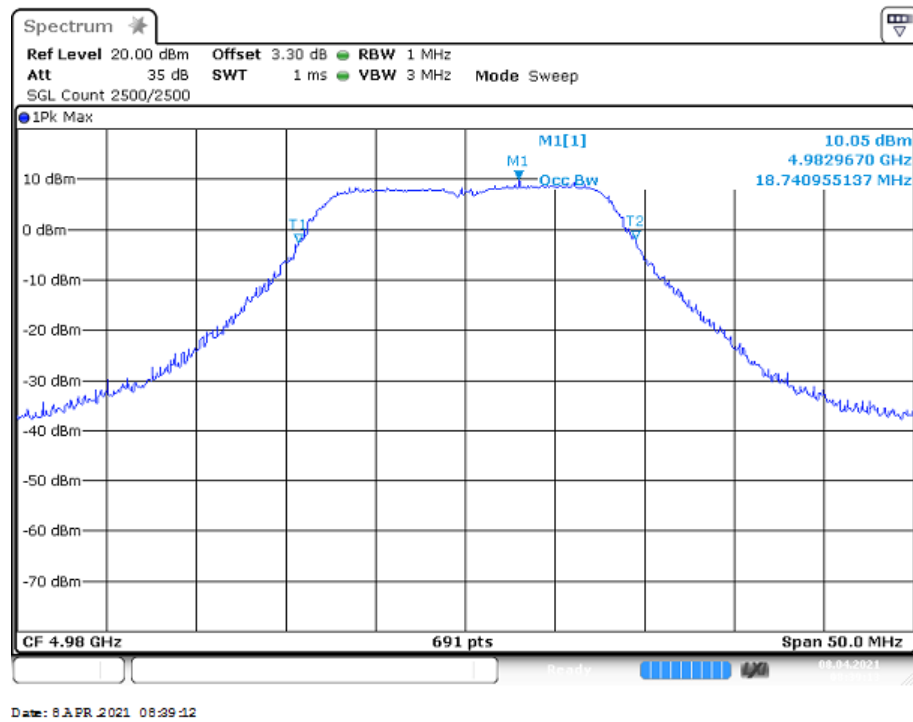
§90.209 Bandwidth limitations / 99%BW - 6 MBit/s OFDM - 4980 MHz

Test References	
TC Start	08.04.2021 08:36:29
Ambit Temp [°C] Humidity [rel%]	24.8 20
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	99%BW_1MHz_A1_4980

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.00 3.3 35
Start [MHz] Stop [MHz]	4955.000 5005.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS MAXH
Sweep: Time [ms] Count Points per Section Type	1 2500 691 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4982.967000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

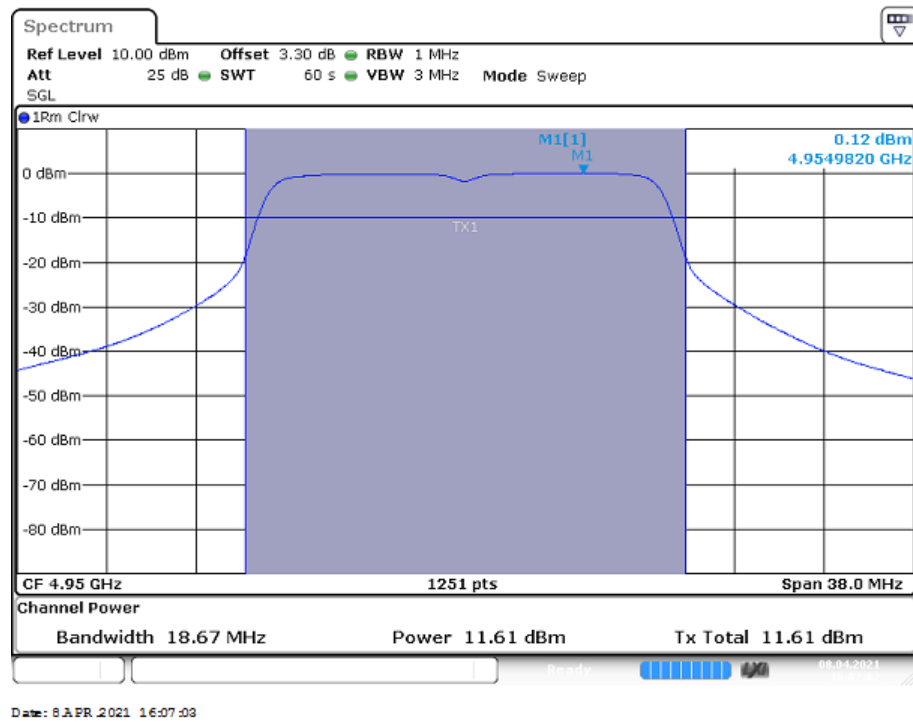
§90.205 Output Power and Power Density - 6 MBit/s OFDM - 4950 MHz

Test References	
TC Start	08.04.2021 16:04:20
Ambit Temp [°C] Humidity [rel%]	27.1 15
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	PWR_A1_4950_TP13

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.00 3.3 25
Start [MHz] Stop [MHz]	4931.000 4969.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	60000 0 1251 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4954.982000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

§90.205 Output Power and Power Density - 6 MBit/s OFDM - 4965 MHz

Test References

TC Start	08.04.2021 16:07:21
Ambit Temp [°C] Humidity [rel%]	27.0 15
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	PWR_A1_4965_TP13

IUT DEFINITION & Common settings

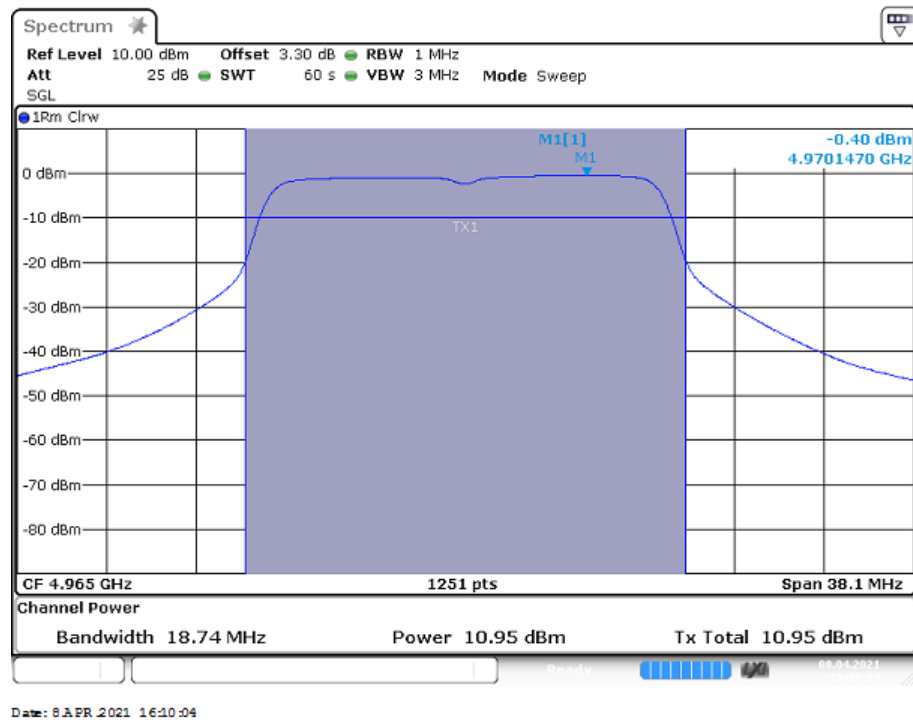
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter

Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.00 3.3 25
Start [MHz] Stop [MHz]	4945.950 4984.050
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	60000 0 1251 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4970.147000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

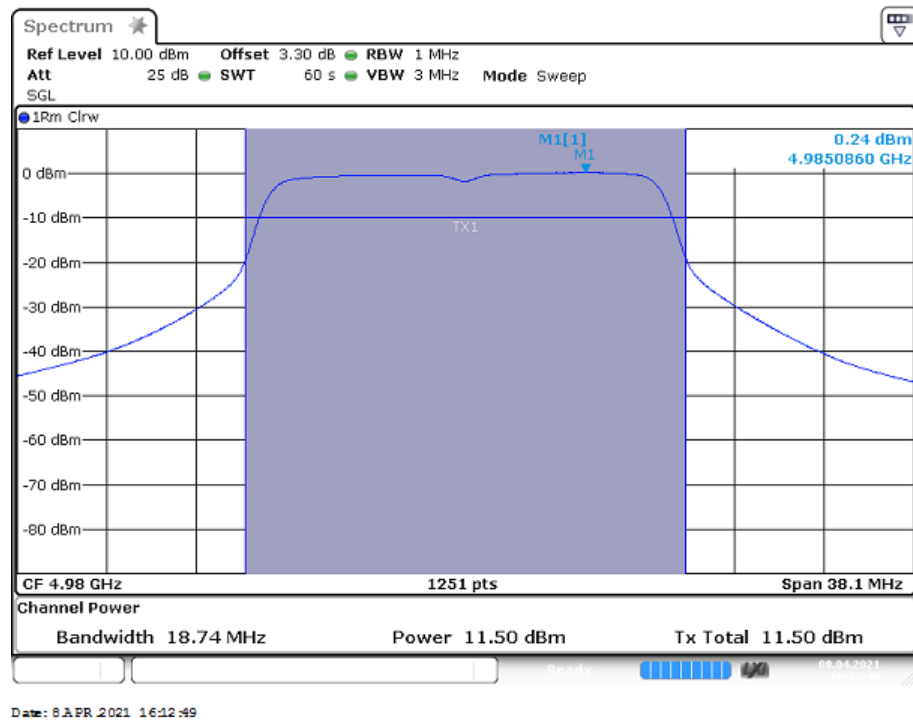
§90.205 Output Power and Power Density - 6 MBit/s OFDM - 4980 MHz

Test References	
TC Start	08.04.2021 16:10:06
Ambit Temp [°C] Humidity [rel%]	26.9 15
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	PWR_A1_4980_TP13

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.00 3.3 25
Start [MHz] Stop [MHz]	4960.950 4999.050
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	60000 0 1251 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4985.086000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

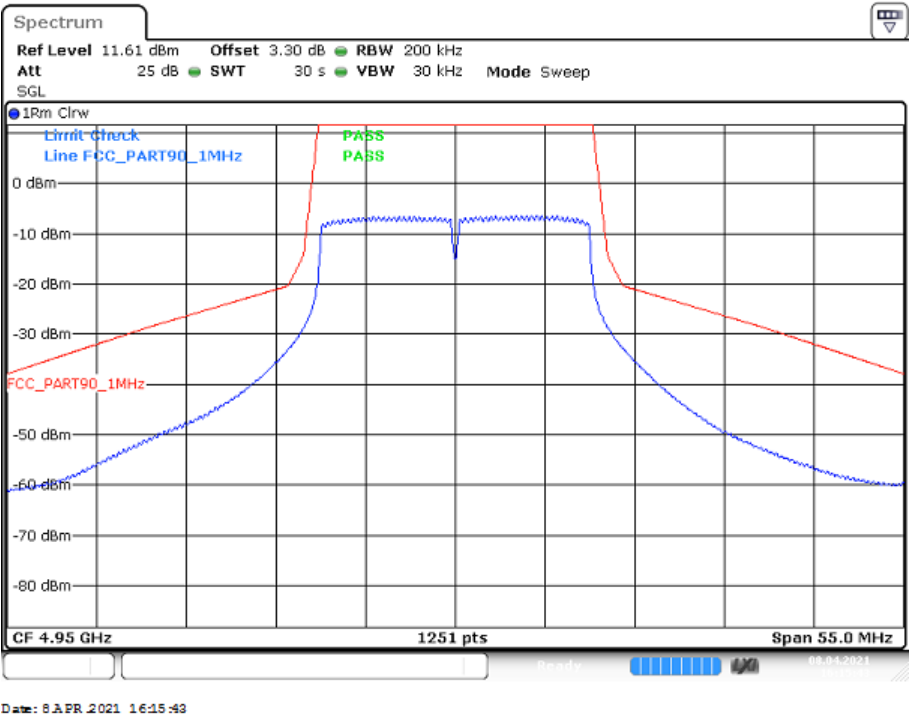
§90.210 Emission masks - 6 MBit/s OFDM - 4950 MHz

Test References	
TC Start	08.04.2021 16:13:00
Ambit Temp [°C] Humidity [rel%]	26.9 15
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	MASK_A1_4950_TP13

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.61 3.3 25
Start [MHz] Stop [MHz]	4922.500 4977.500
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	30000 0 1251 SWE



Hardcopy Spectrum Analyzer ~

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict	INFO
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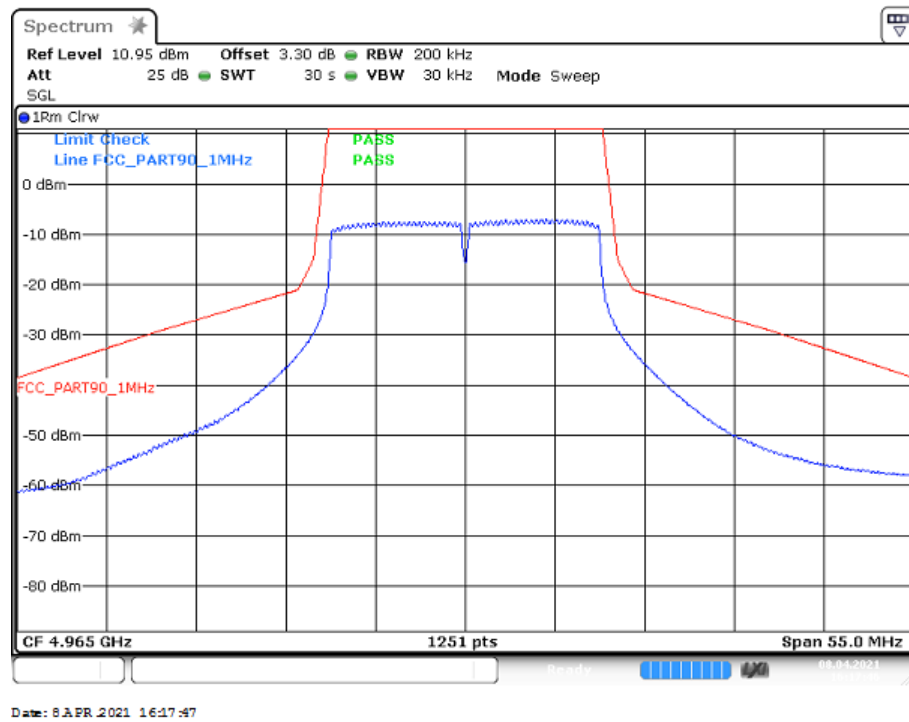
§90.210 Emission masks - 6 MBit/s OFDM - 4965 MHz

Test References	
TC Start	08.04.2021 16:15:04
Ambit Temp [°C] Humidity [rel%]	26.9 15
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	MASK_A1_4965_TP13

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	10.95 3.3 25
Start [MHz] Stop [MHz]	4937.500 4992.500
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	30000 0 1251 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

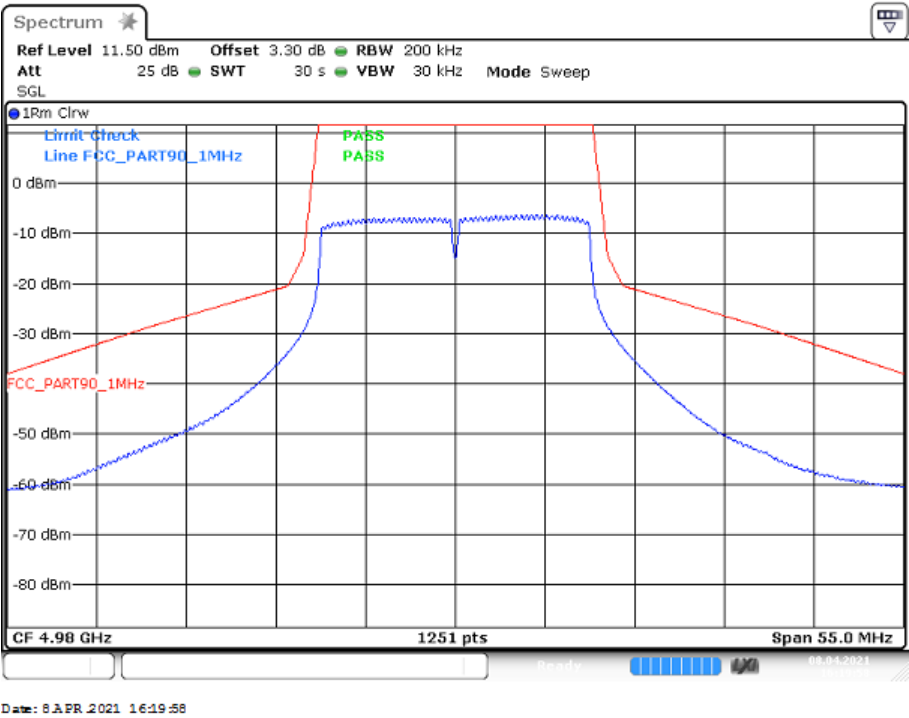
§90.210 Emission masks - 6 MBit/s OFDM - 4980 MHz

Test References	
TC Start	08.04.2021 16:17:16
Ambit Temp [°C] Humidity [rel%]	26.8 15
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	MASK_A1_4980_TP13

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	11.50 3.3 25
Start [MHz] Stop [MHz]	4952.500 5007.500
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	30000 0 1251 SWE



Hardcopy Spectrum Analyzer ~

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict	INFO
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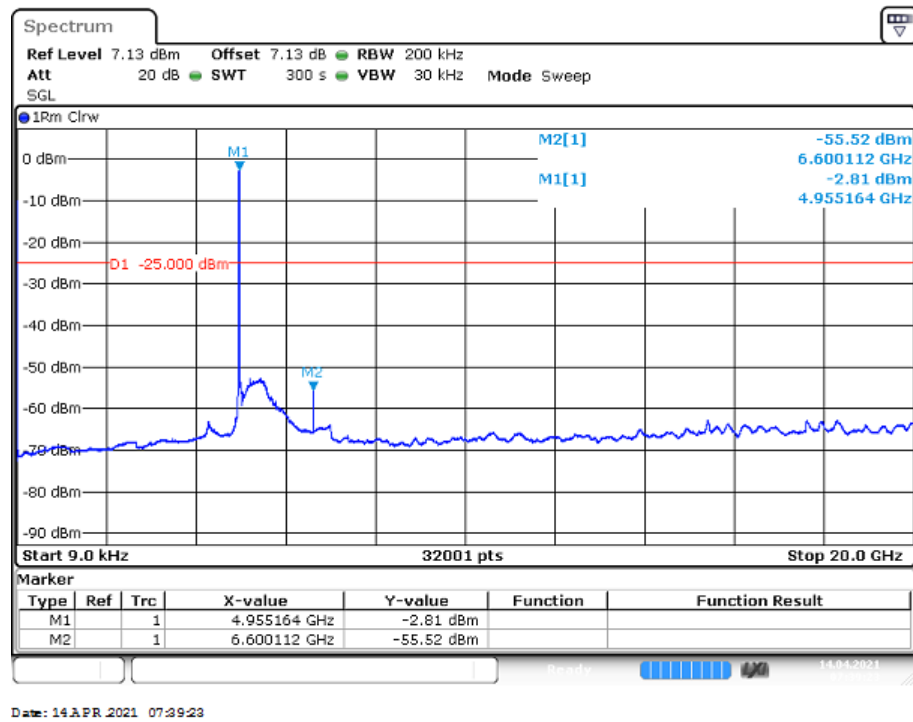
§2.1051 / §90.210 Spurious emissions at antenna terminals - 6 MBit/s OFDM - 4950 MHz (<20 GHz)

Test References	
TC Start	14.04.2021 07:36:28
Ambit Temp [°C] Humidity [rel%]	22.8 20
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	A1_Spurious_<20GHz_6MBit_tp13_4950MHz

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.13 7.13 20
Start [MHz] Stop [MHz]	0.009 20000.000
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	300000 0 32001 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4955.164422	MHz	Information
Marker 2 Freq.	---	---	6600.112277	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

§2.1051 / §90.210 Spurious emissions at antenna terminals - 6 MBit/s OFDM - 4950 MHz (>20 GHz)

Test References

TC Start	14.04.2021 08:03:04
Ambit Temp [°C] Humidity [rel%]	24.4 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	A1_Spurious_>20GHz_6MBit_tp13_4950MHz

IUT DEFINITION & Common settings

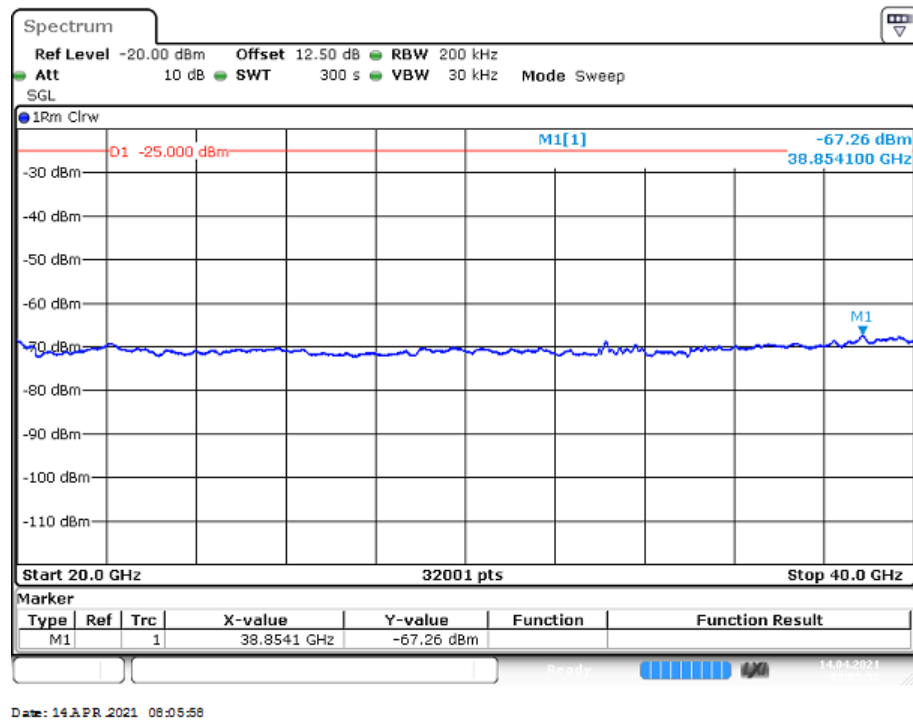
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter

Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-20.00 12.5 10
Start [MHz] Stop [MHz]	20000.000 40000.000
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	300000 0 32001 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	38854.100000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

§2.1051 / §90.210 Spurious emissions at antenna terminals - 6 MBit/s OFDM - 4965 MHz (<20 GHz)

Test References

TC Start	14.04.2021 07:47:34
Ambit Temp [°C] Humidity [rel%]	23.7 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	A1_Spurious_<20GHz_6MBit_tp13_4965MHz

IUT DEFINITION & Common settings

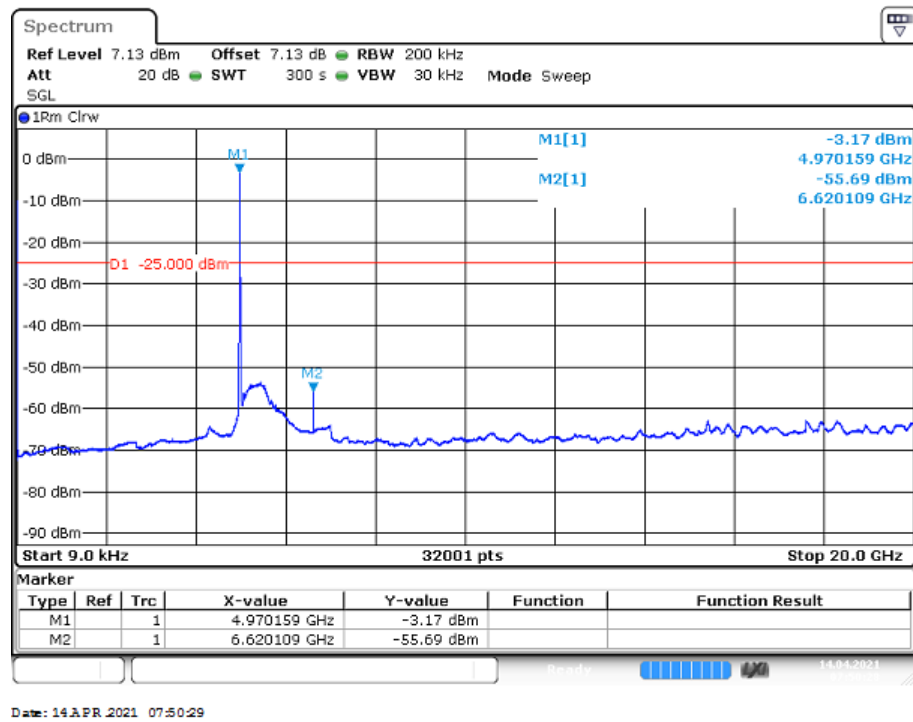
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter

Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.13 7.13 20
Start [MHz] Stop [MHz]	0.009 20000.000
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	300000 0 32001 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4970.159000	MHz	Information
Marker 2 Freq.	---	---	6620.109000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

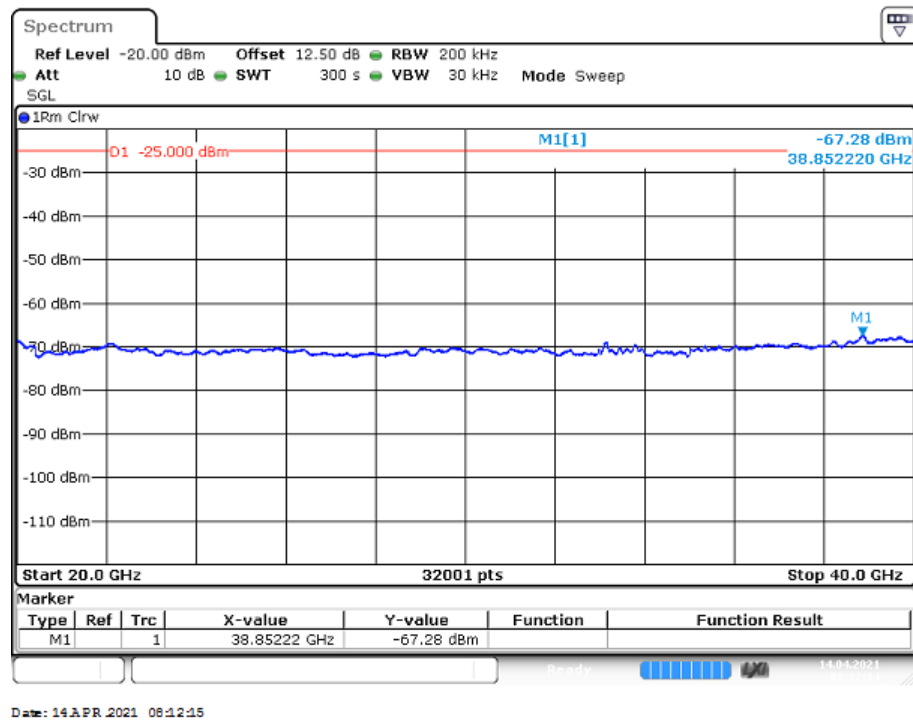
§2.1051 / §90.210 Spurious emissions at antenna terminals - 6 MBit/s OFDM - 4965 MHz (>20 GHz)

Test References	
TC Start	14.04.2021 08:09:20
Ambit Temp [°C] Humidity [rel%]	24.6 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	A1_Spurious_>20GHz_6MBit_tp13_4965MHz

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-20.00 12.5 10
Start [MHz] Stop [MHz]	20000.000 40000.000
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	300000 0 32001 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	38852.220000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

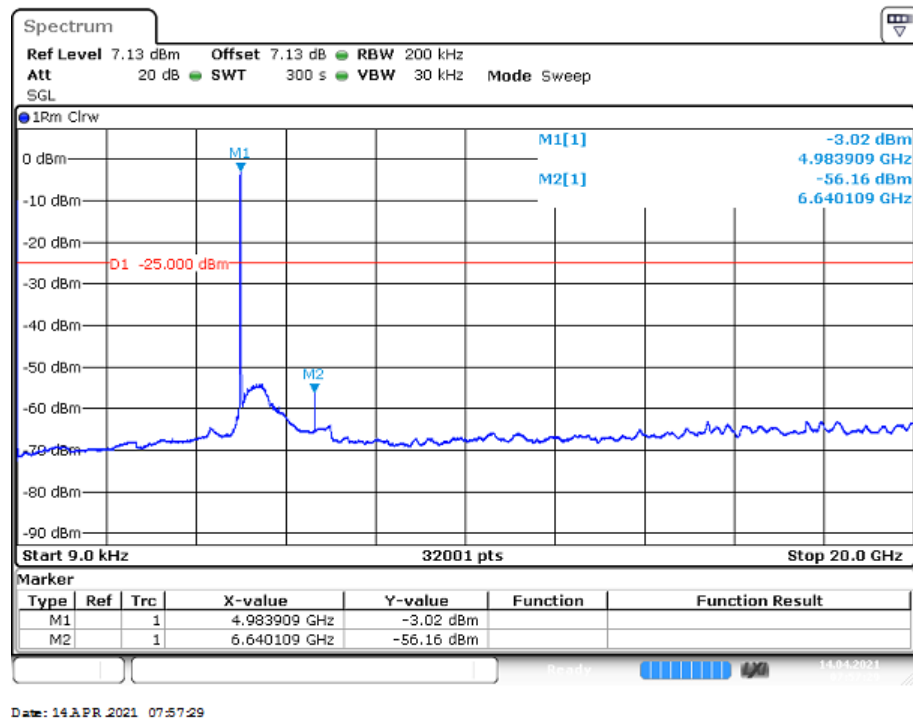
§2.1051 / §90.210 Spurious emissions at antenna terminals - 6 MBit/s OFDM - 4980 MHz (<20 GHz)

Test References	
TC Start	14.04.2021 07:54:35
Ambit Temp [°C] Humidity [rel%]	24.0 19
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	A1_Spurious_<20GHz_6MBit_tp13_4980MHz

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	7.13 7.13 20
Start [MHz] Stop [MHz]	0.009 20000.000
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	300000 0 32001 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4983.909000	MHz	Information
Marker 2 Freq.	---	---	6640.109000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

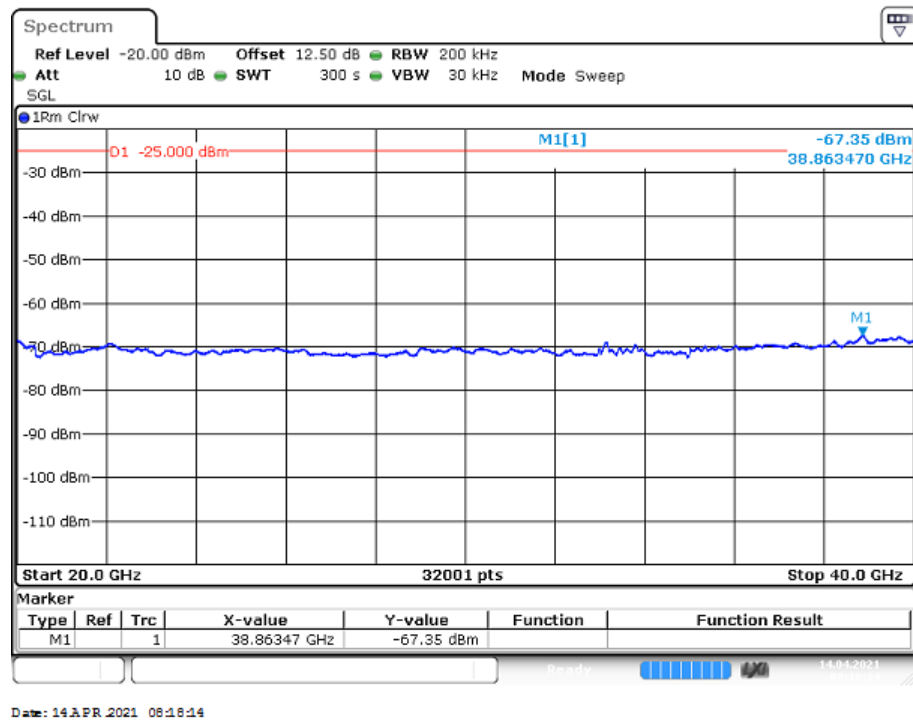
§2.1051 / §90.210 Spurious emissions at antenna terminals - 6 MBit/s OFDM - 4980 MHz (>20 GHz)

Test References	
TC Start	14.04.2021 08:15:20
Ambit Temp [°C] Humidity [rel%]	24.9 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	A1_Spurious_>20GHz_6MBit_tp13_4980MHz

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	-20.00 12.5 10
Start [MHz] Stop [MHz]	20000.000 40000.000
RBW [MHz] VBW [MHz]	0.200000 0.030000
Detector TraceMode	RMS WRIT
Sweep: Time [ms] Count Points per Section Type	300000 0 32001 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	38863.470000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					

General verdict

INFO

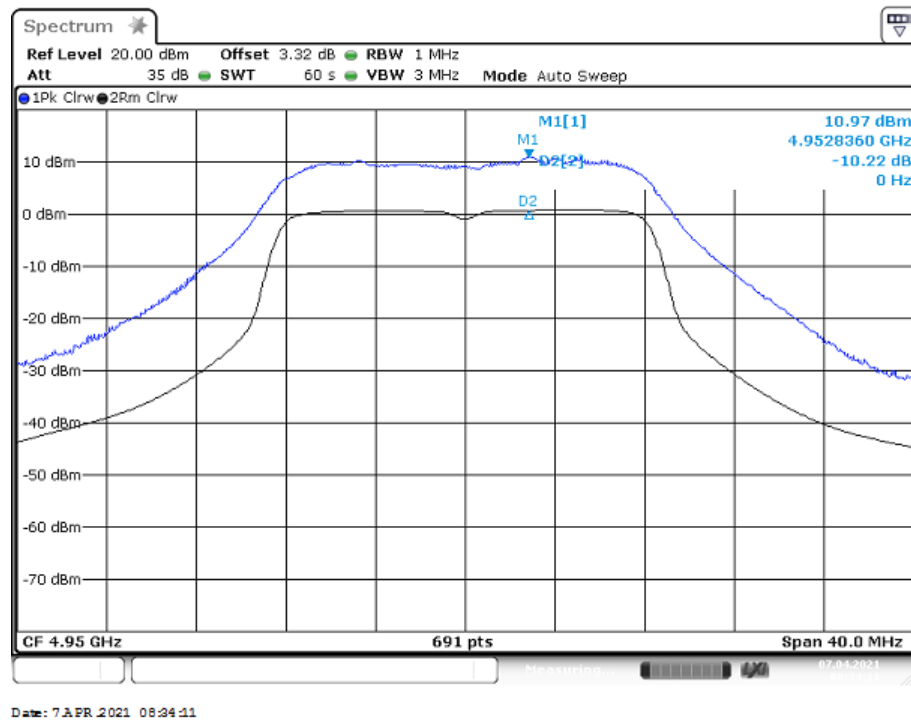
§90.1215(e) Peak Excursion - 6 MBit/s OFDM - 4950 MHz

Test References	
TC Start	07.04.2021 08:31:28
Ambit Temp [°C] Humidity [rel%]	25.2 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	Peak-to-RMS_6MBit/s_4950

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.00 3.32 35
Start [MHz] Stop [MHz]	4930.000 4970.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS WRIT
Sweep: Time [ms] Count Points per Section Type	60000 0 691 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4952.836000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Freq.	---	---	0.000000	MHz	Information
Delta Marker 2 Level	---	---	-10.216	dB	Information

General verdict

INFO

§90.1215(e) Peak Excursion - 6 MBit/s OFDM - 4965 MHz

Test References

TC Start	07.04.2021 08:33:34
Ambit Temp [°C] Humidity [rel%]	25.5 18
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	Peak-to-RMS_6MBit/s_4965

IUT DEFINITION & Common settings

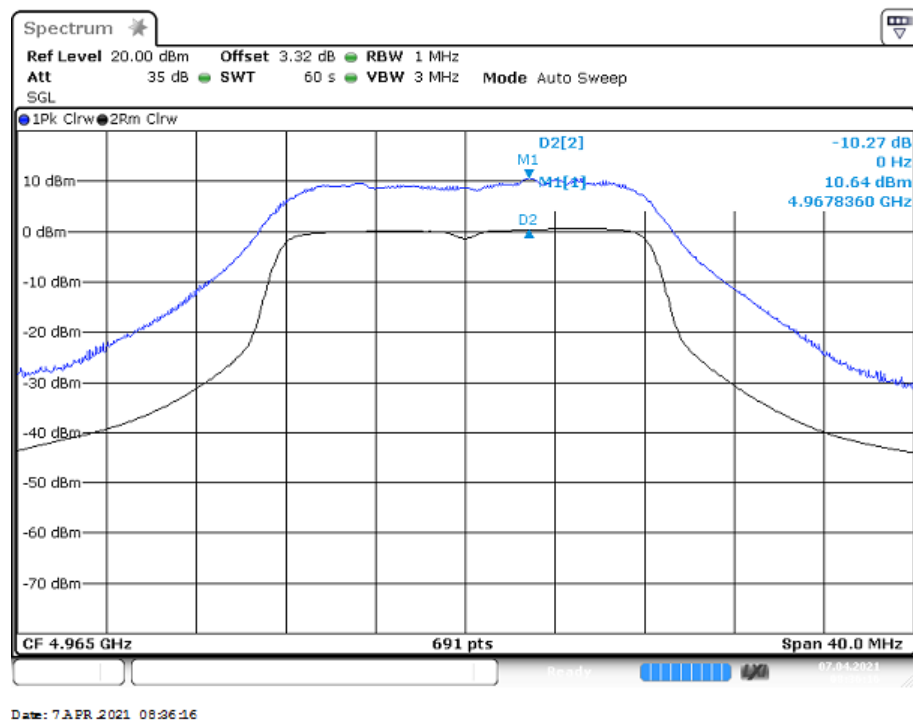
Manufacturer	Westermo
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter

Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:

RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.00 3.32 35
Start [MHz] Stop [MHz]	4945.000 4985.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS WRIT
Sweep: Time [ms] Count Points per Section Type	60000 0 691 SWE



Hardcopy Spectrum Analyzer ~

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4967.836000	MHz	Information

RESULT

Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Freq.	---	---	0.000000	MHz	Information
Delta Marker 2 Level	---	---	-10.269	dB	Information

General verdict

INFO

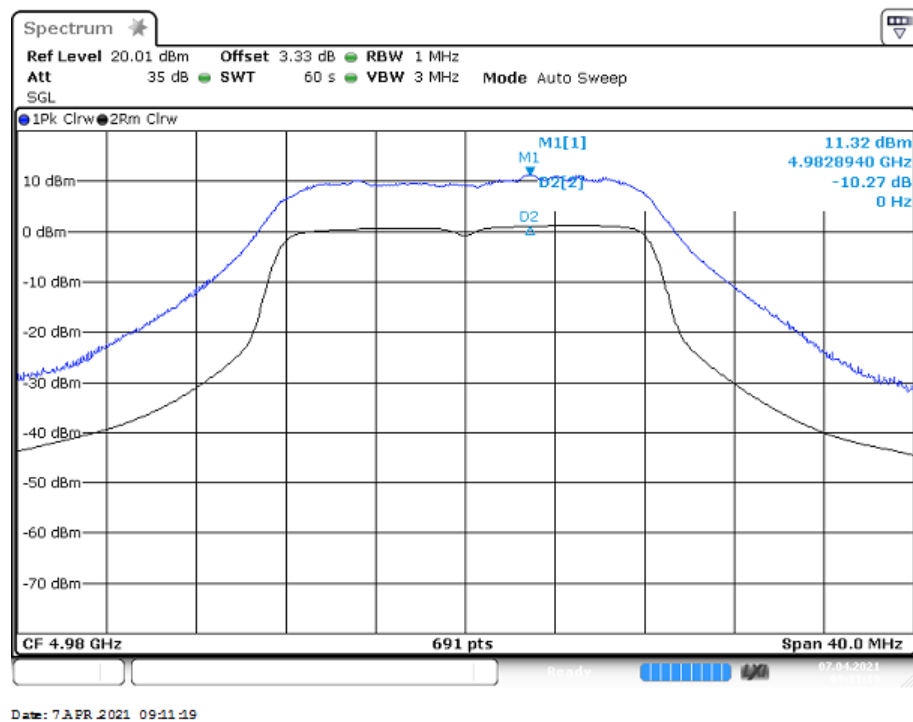
§90.1215(e) Peak Excursion - 6 MBit/s OFDM - 4980 MHz

Test References	
TC Start	07.04.2021 09:08:37
Ambit Temp [°C] Humidity [rel%]	27.5 16
System Version	1.0.1.2
Test Specification	None
Test Method	
Class / TC Version	TC_VM_Hardcopy_Spectrum_Analyzer_V01 Version: 0.0.1
My Description	Hardcopy Spectrum Analyzer
Add. Information	Peak-to-RMS_6MBit/s_4980

IUT DEFINITION & Common settings	
Manufacturer	Westermo Neratec AG
Type	Ibex-RT-320-LV EU
Serial No. Setup No.	622 1.0
SW Version HW Version	NI NI
Comment 1 2	
Tlow Tmid Thigh [°C]	-40 20 70
Vlow Vmid Vhigh [V] @Imax [A]	16 24 30 @1
Auto Control enabled Power Supply Climatic Box	No No
Additional Path Loss [dB]	0

Test Parameter	
Technology to test	
Switched Path	---
Devices in use	SA: Rohde&Schwarz,FSV-40,1321.3008K40/101353,3.60

READ SA SETTINGS:	
RefLevel [dBm] RefLevelOffset [dB] InpAtt [dB]	20.01 3.33 35
Start [MHz] Stop [MHz]	4960.000 5000.000
RBW [MHz] VBW [MHz]	1.000000 3.000000
Detector TraceMode	POS WRIT
Sweep: Time [ms] Count Points per Section Type	60000 0 691 SWE



Hardcopy Spectrum Analyzer ~

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Marker Readout					
Marker 1 Freq.	---	---	4982.894000	MHz	Information

RESULT					
Test Description	Lower Limit	Upper Limit	Measured	Unit	Verdict
Delta Marker Readout					
Delta Marker 2 Freq.	---	---	0.000000	MHz	Information
Delta Marker 2 Level	---	---	-10.265	dB	Information

General verdict

INFO

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