

8 FCC Rules and Regulations Part 2.1049(c)(1): Occupied Bandwidth; Part 90.210: Authorized Bandwidth; Part 74.462: Authorized Bandwidth and Emissions

Occupied Bandwidth - Compliance with the Emission Masks

8.1 Test Procedure

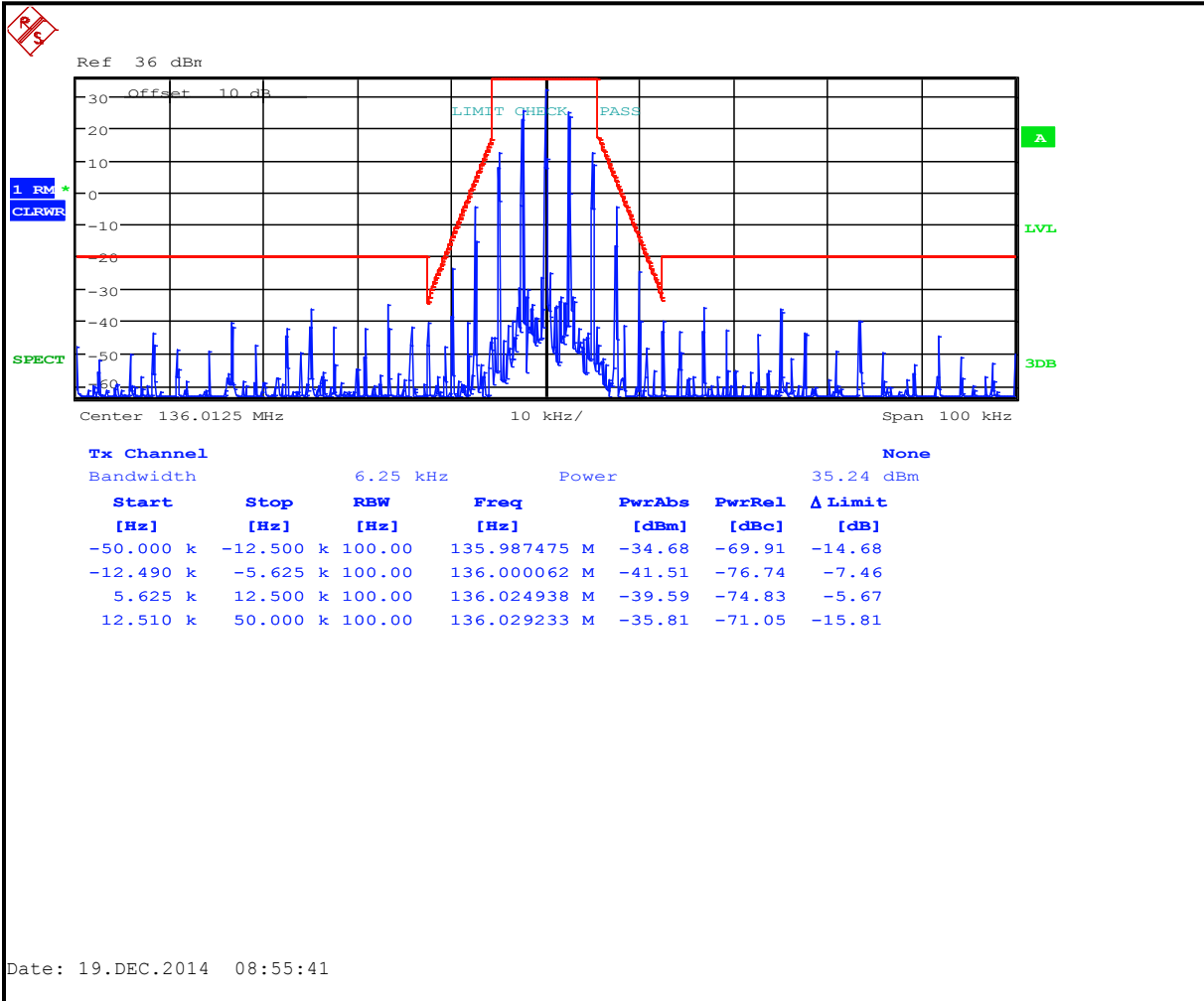
TIA-603-D 2010, section 2.2.11 and TIA/EIA-102.CAAA-2002 section 2.2.5

Device with digital modulation: Modulated to its maximum extent using a pseudo-random data sequence.

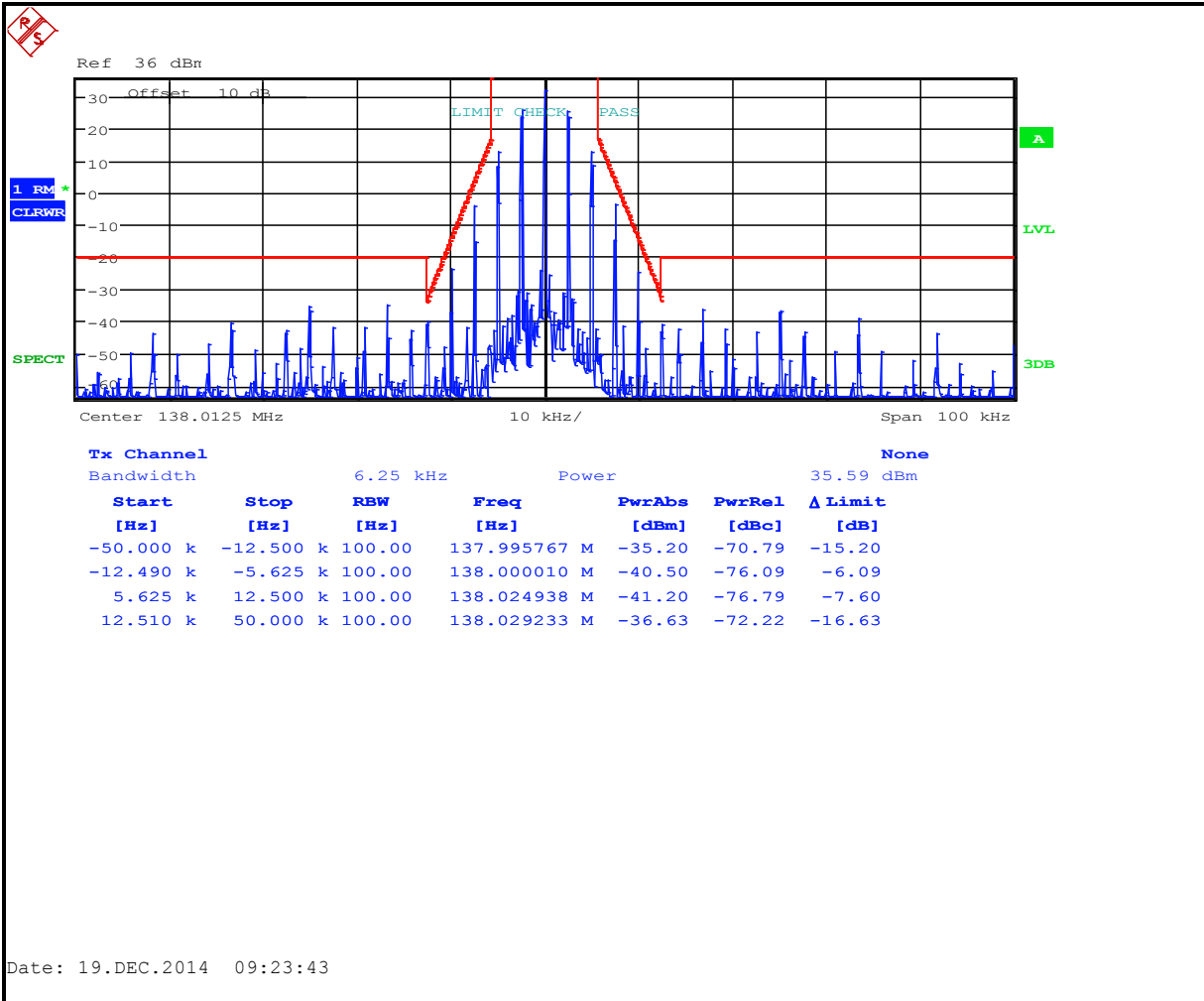
Applicable Emission Masks		
Frequency Band (MHz)	Mask for Equipment with Audio Low Pass Filter	Mask for Equipment Without Audio Low Pass Filter
Below 25 ¹	A or B	A or C
25–50.....	B	C
72–76.....	B	C
150–174 ²	B, D, or E	C, D, or E
150 Paging-only	B	C
220–222	F	F
421–512 ²	B, D, or E	C, D, or E
450 Paging-only	B	G
806–809/851–854	B	H
809–824/854–869 ³	B	G
896–901/935–940	I	J
902–928	K	K
929–930	B	G
4940–4990 MHz	L or M	L or M
5850–5925 ⁴		
All other bands	B	C
1 Equipment using single sideband J3E emission must meet the requirements of Emission Mask A. Equipment using other emissions must meet the requirements of Emission Mask B or C, as applicable. 2 Equipment designed to operate with a 25 kHz channel bandwidth must meet the requirements of Emission Mask B or C, as applicable. Equipment designed to operate with a 12.5 kHz channel bandwidth must meet the requirements of Emission Mask D, and equipment designed to operate with a 6.25 kHz channel bandwidth must meet the requirements of Emission Mask E. 3 Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of § 90.691. 4 DSRCS Roadside Units equipment in the 5850–5925 MHz band is governed under subpart M of this part.		

8.2 Test Data

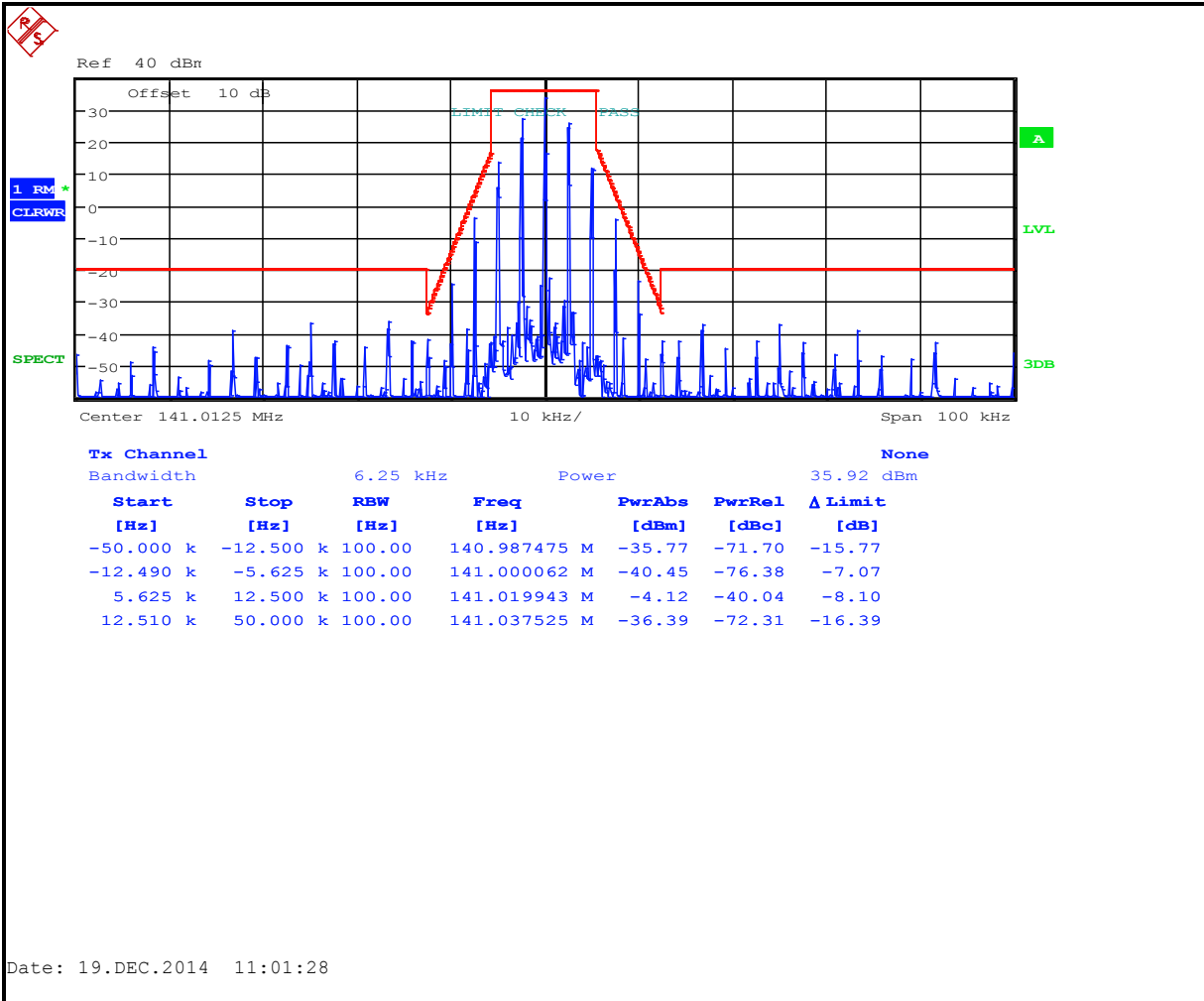
Plot 8-1: Occupied Bandwidth – 136.0125 MHz; Narrowband Analog (Mask D)



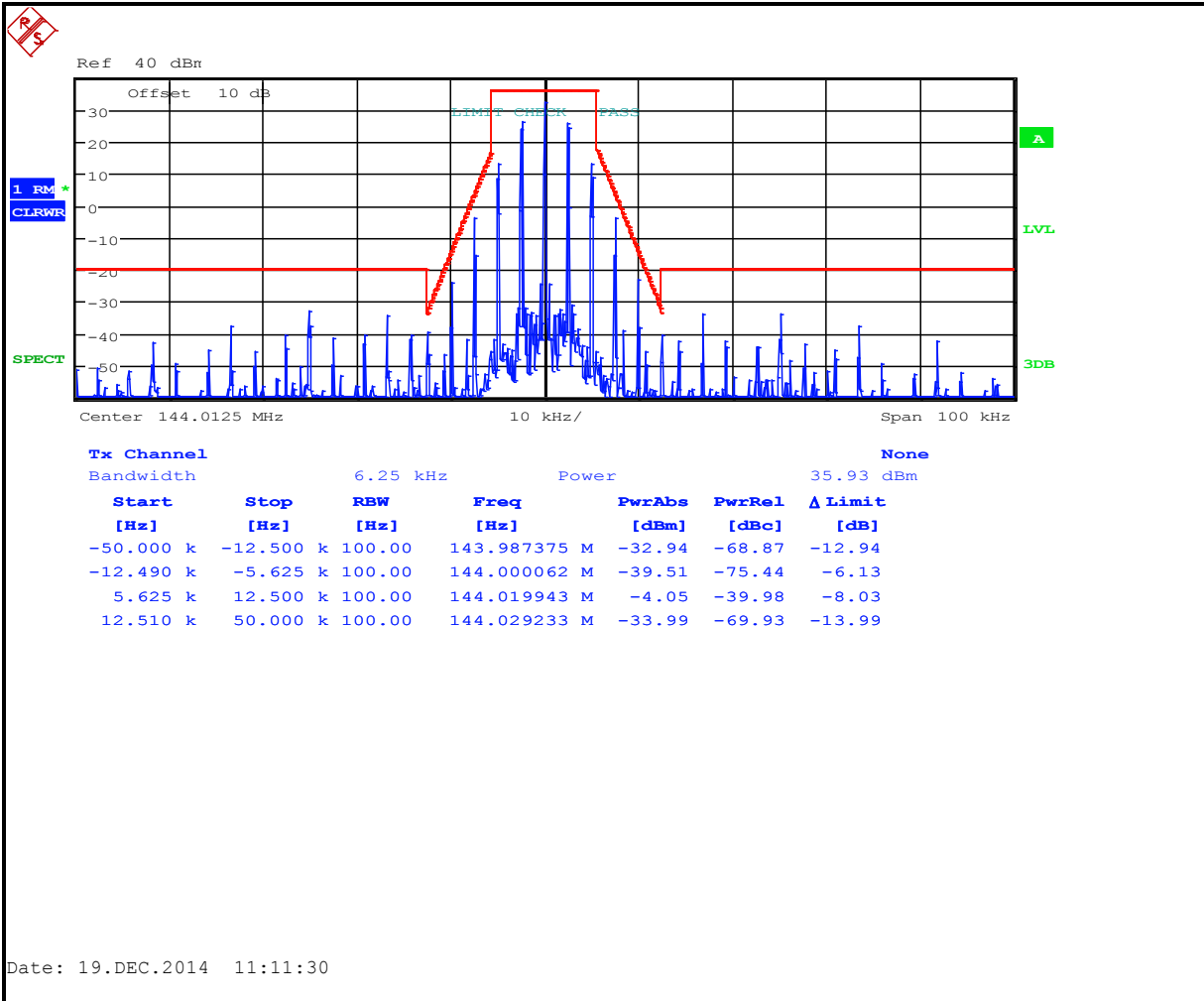
Plot 8-2: Occupied Bandwidth – 138.0125 MHz; Narrowband Analog (Mask D)



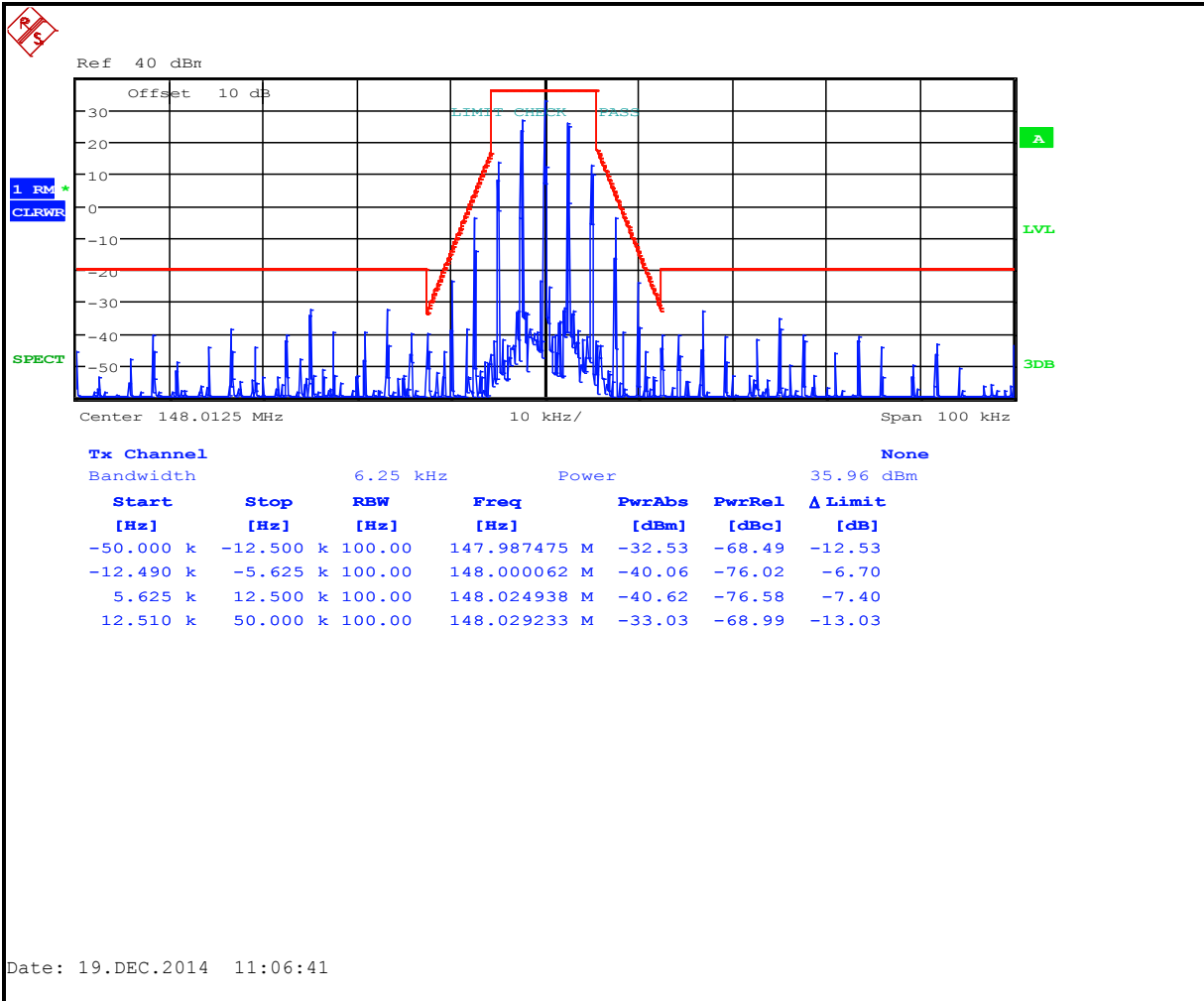
Plot 8-3: Occupied Bandwidth – 141.0125 MHz; Narrowband Analog (Mask D)



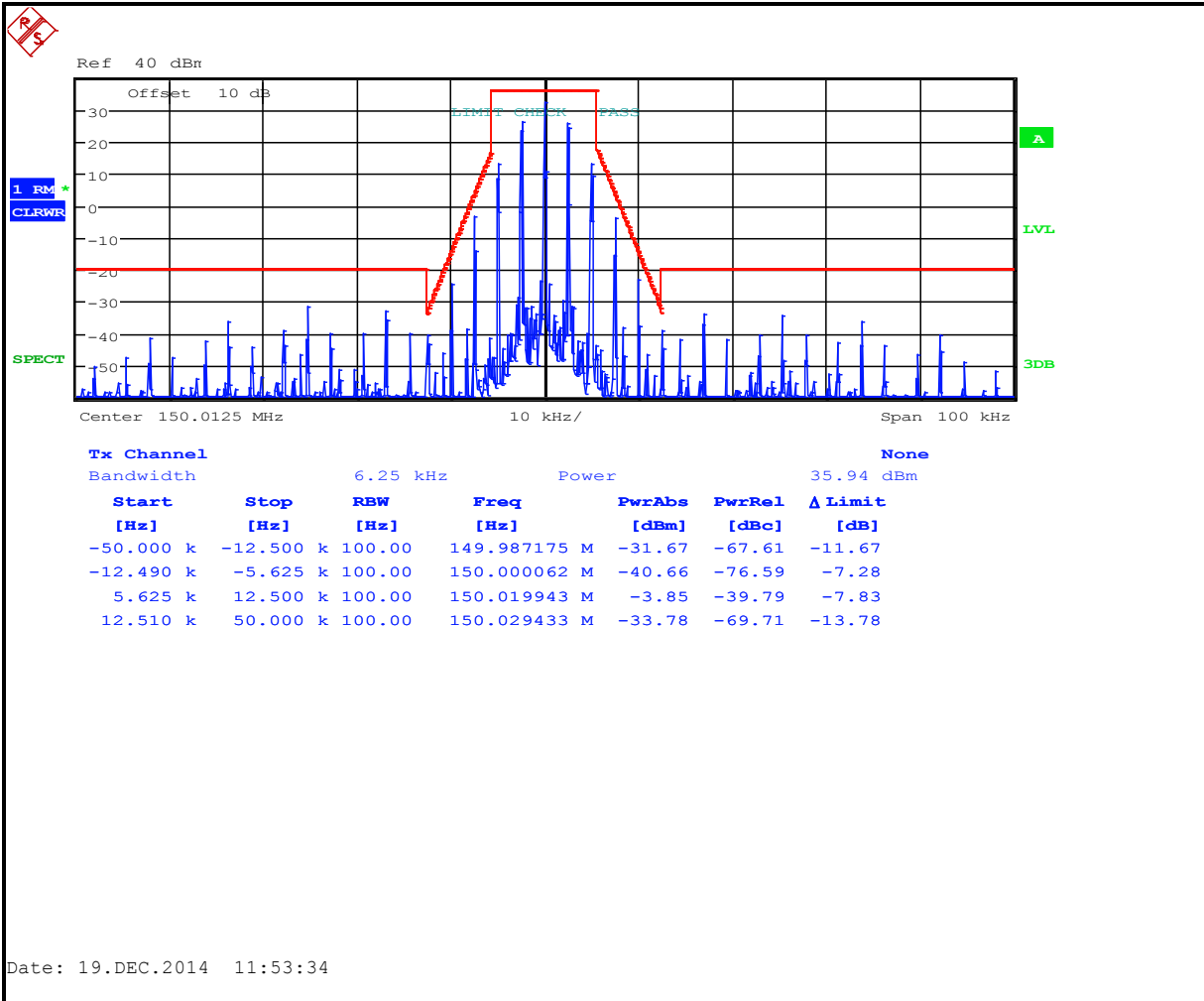
Plot 8-4: Occupied Bandwidth – 144.0125 MHz; Narrowband Analog (Mask D)



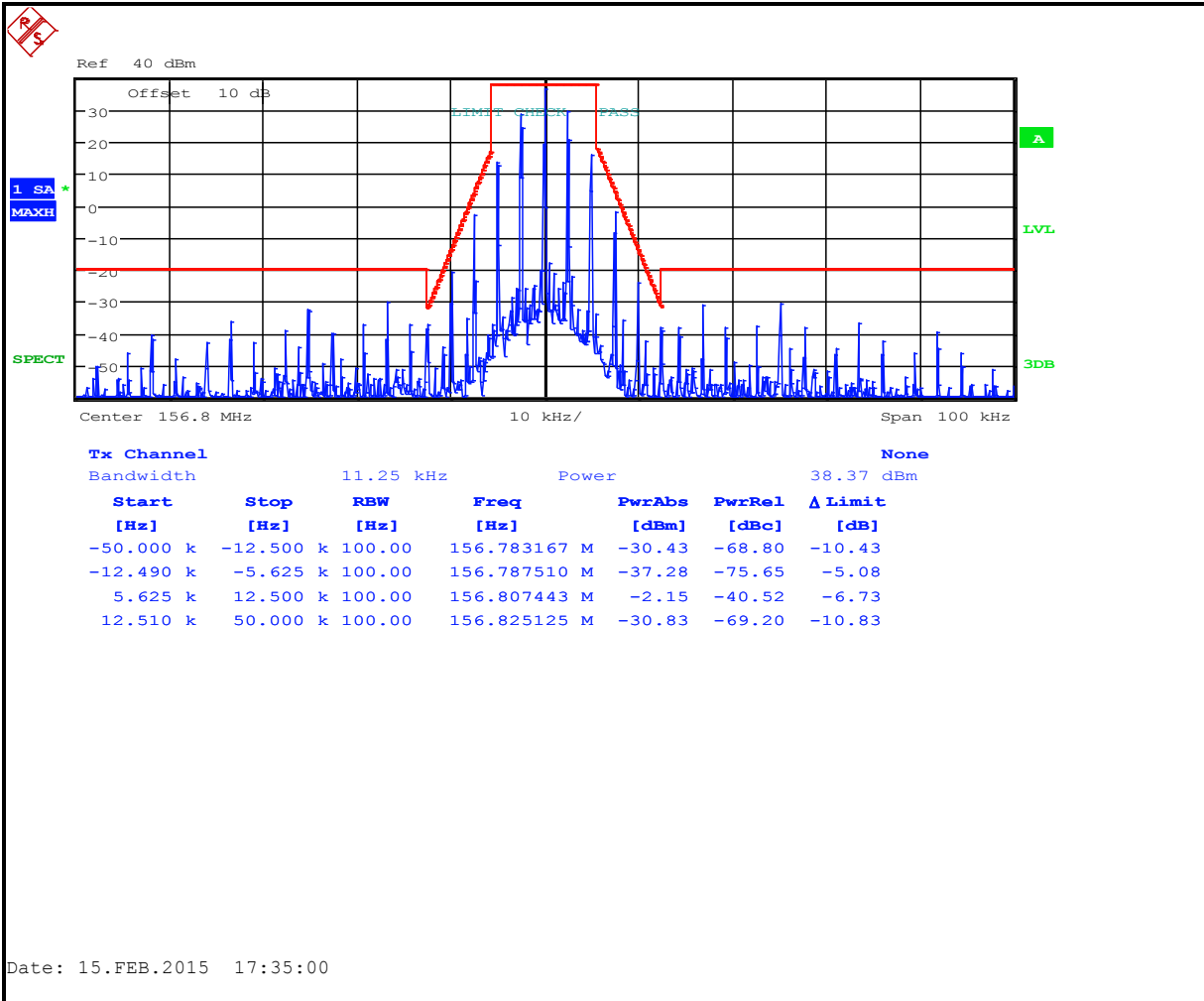
Plot 8-5: Occupied Bandwidth – 148.0125 MHz; Narrowband Analog (Mask D)



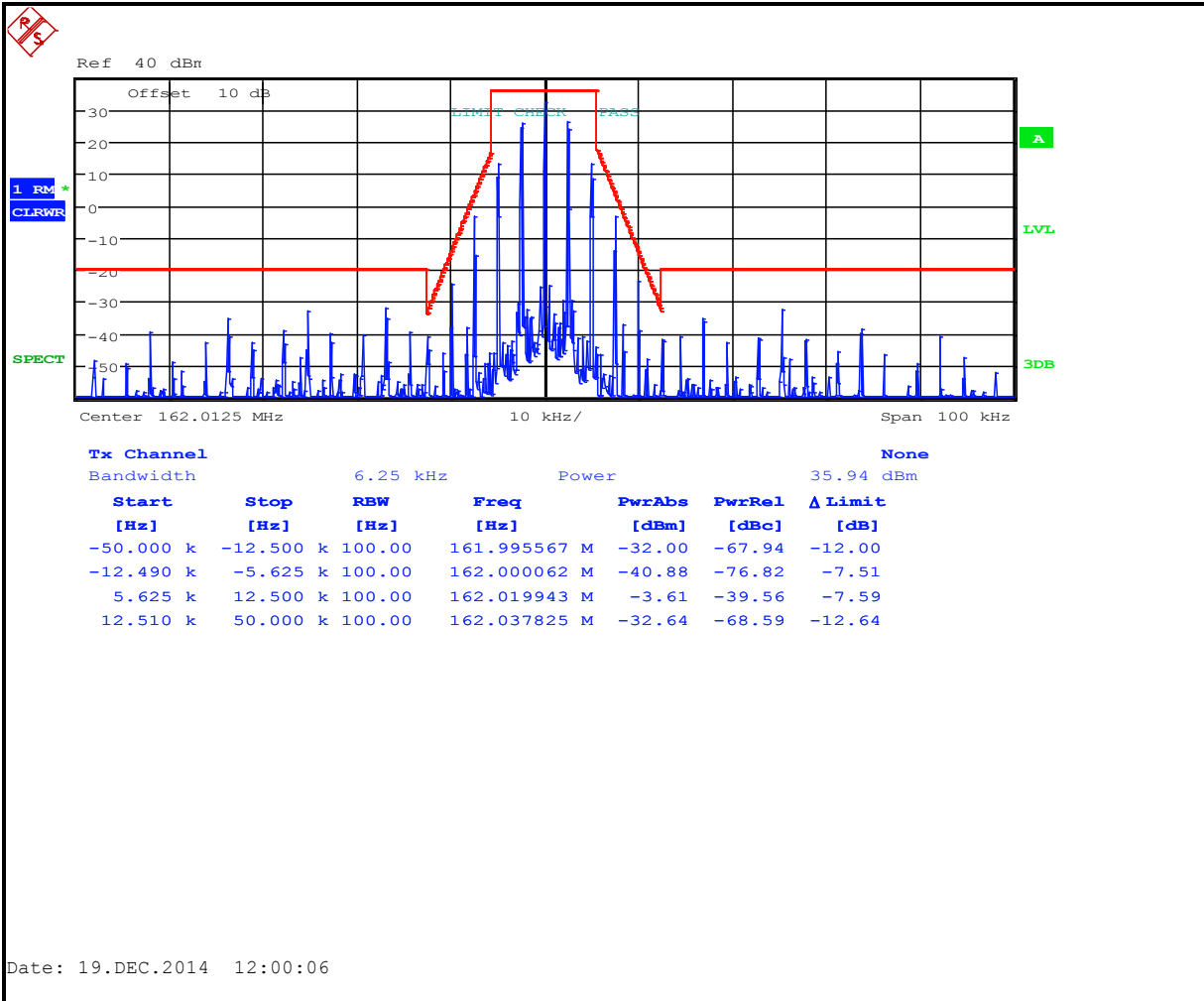
Plot 8-6: Occupied Bandwidth – 150.0125 MHz; Narrowband Analog (Mask D)



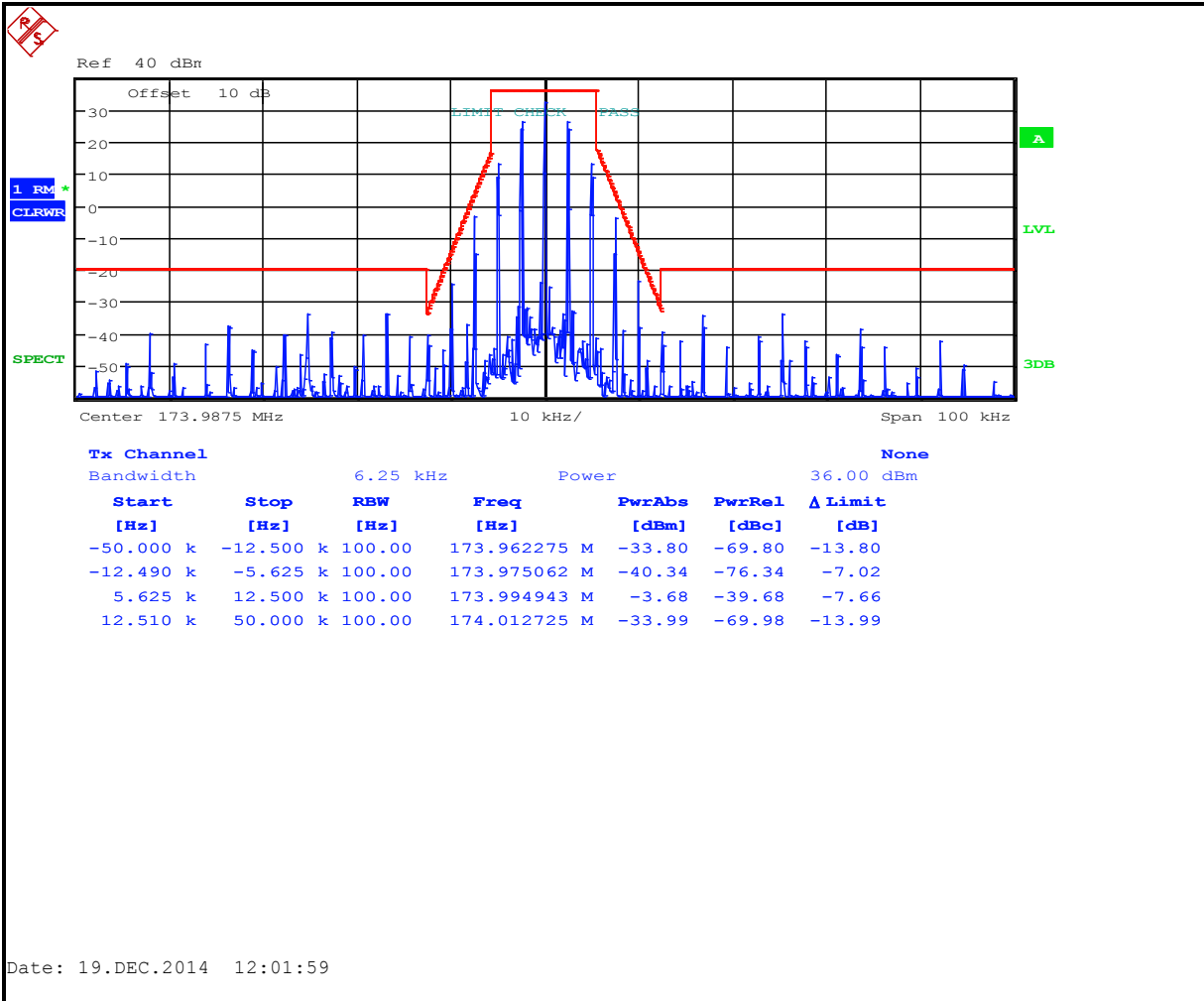
Plot 8-7: Occupied Bandwidth – 156.8000 MHz; Narrowband Analog (Mask D)



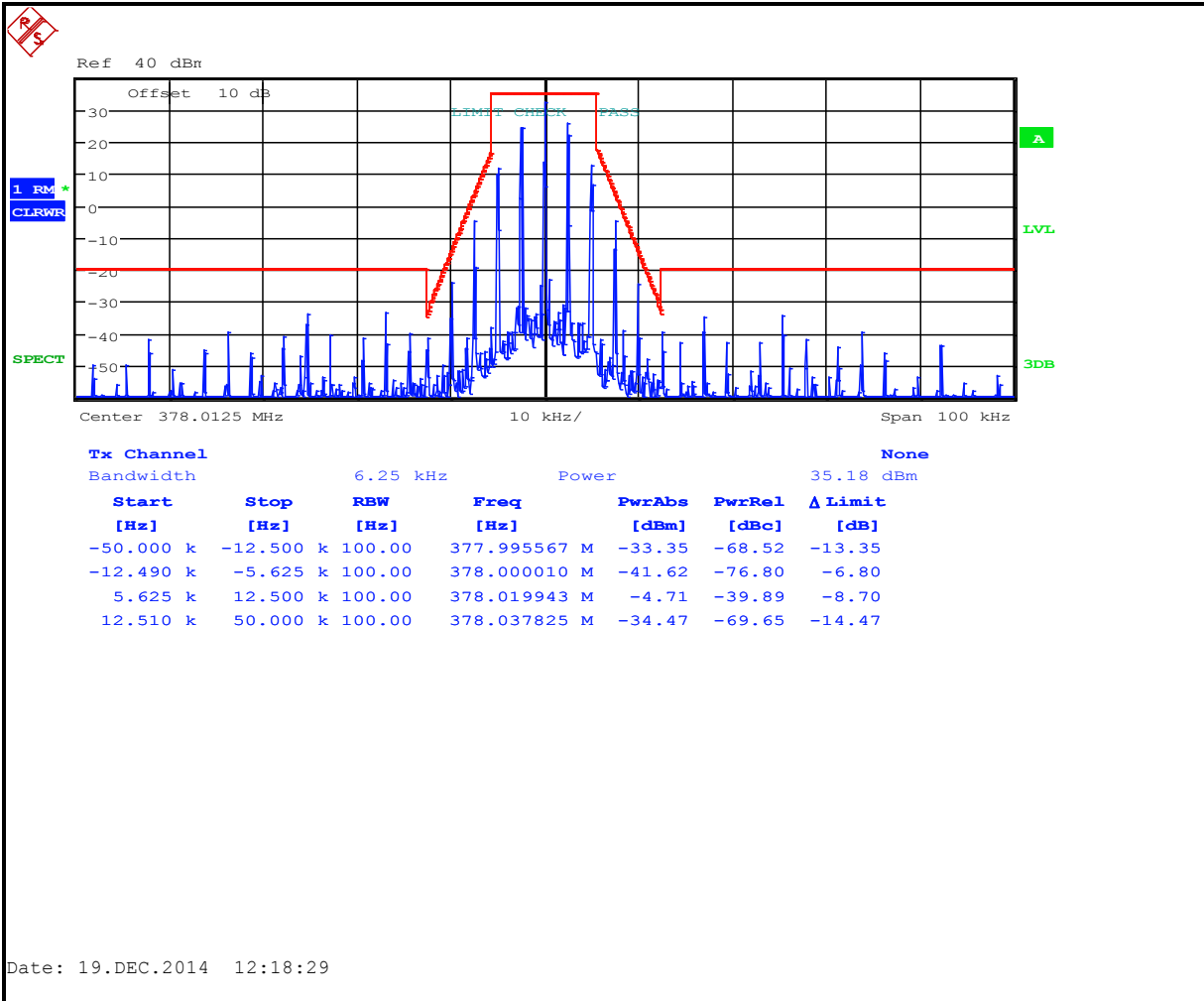
Plot 8-8: Occupied Bandwidth – 162.0125 MHz; Narrowband Analog (Mask D)



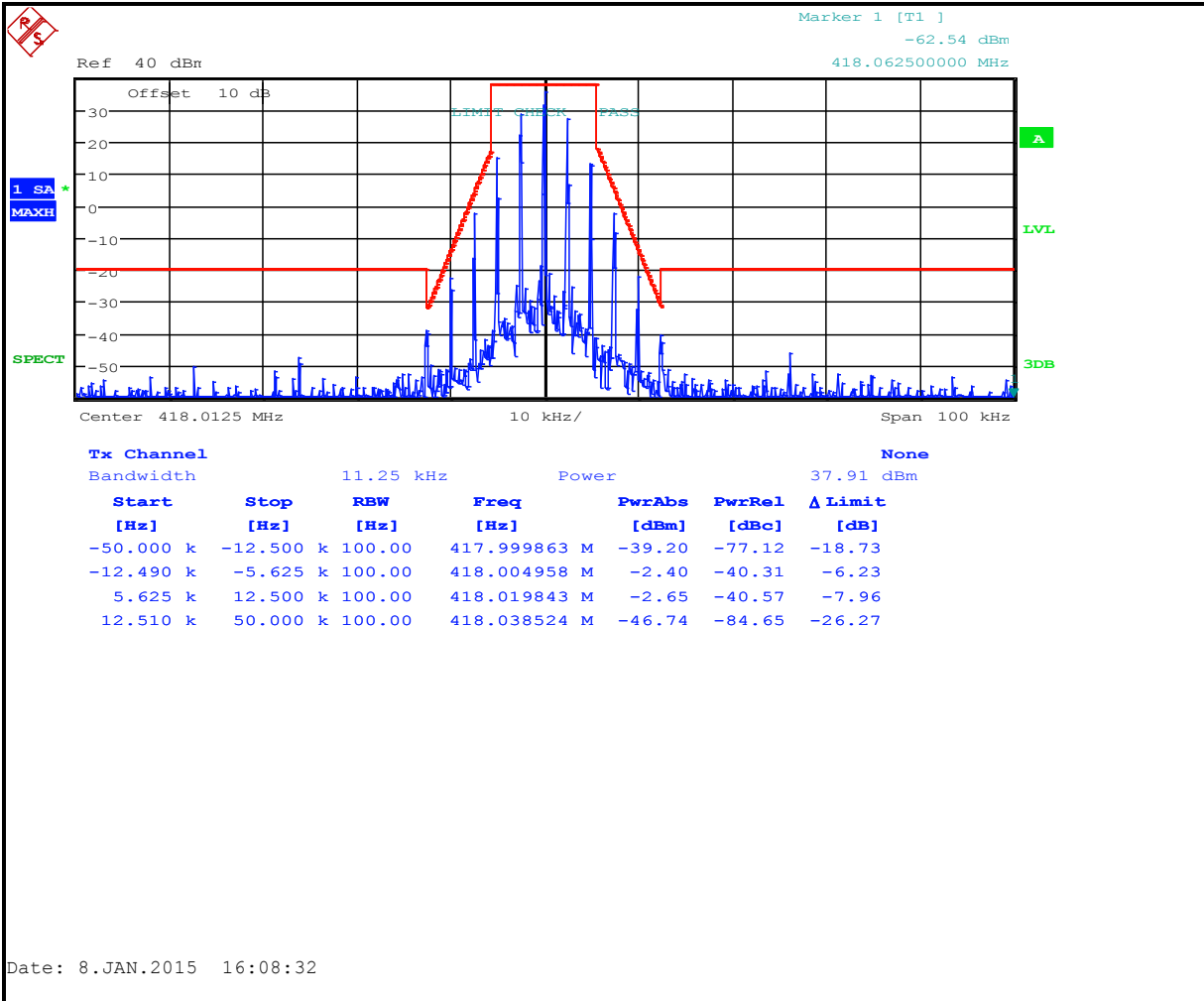
Plot 8-9: Occupied Bandwidth – 173.9875 MHz; Narrowband Analog (Mask D)



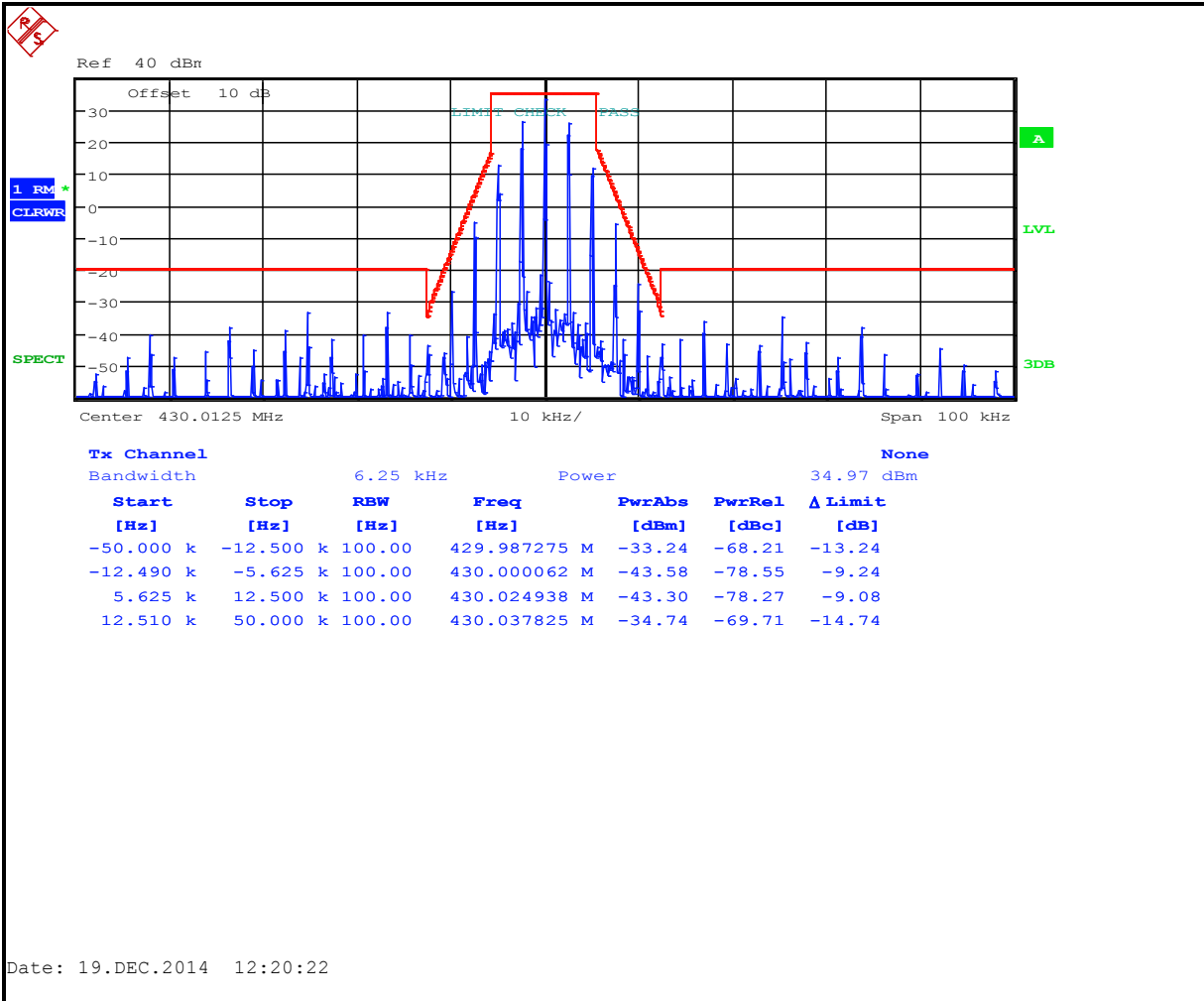
Plot 8-10: Occupied Bandwidth – 378.0125 MHz; Narrowband Analog (Mask D)



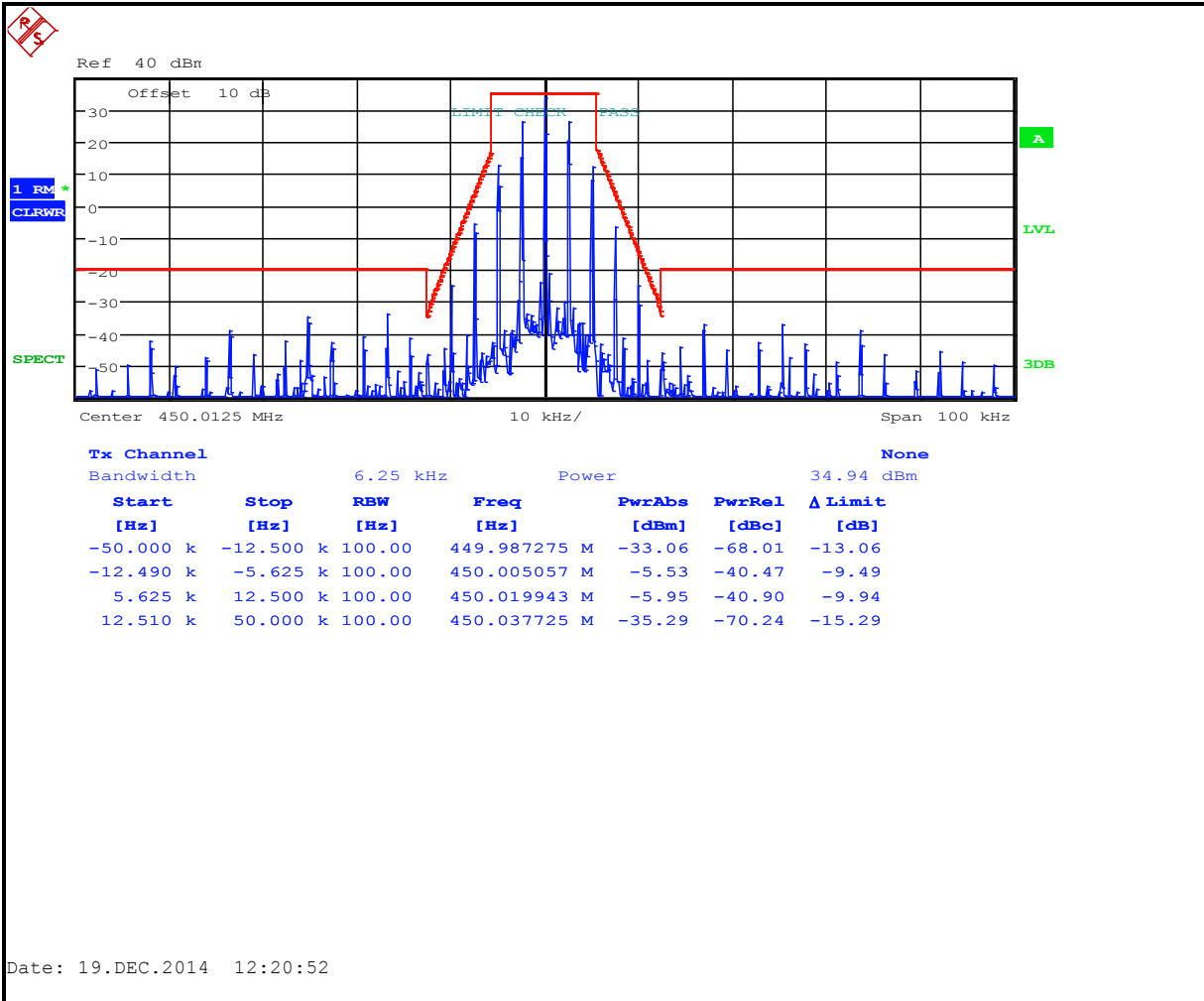
Plot 8-11: Occupied Bandwidth – 418.0125 MHz; Narrowband Analog (Mask D)



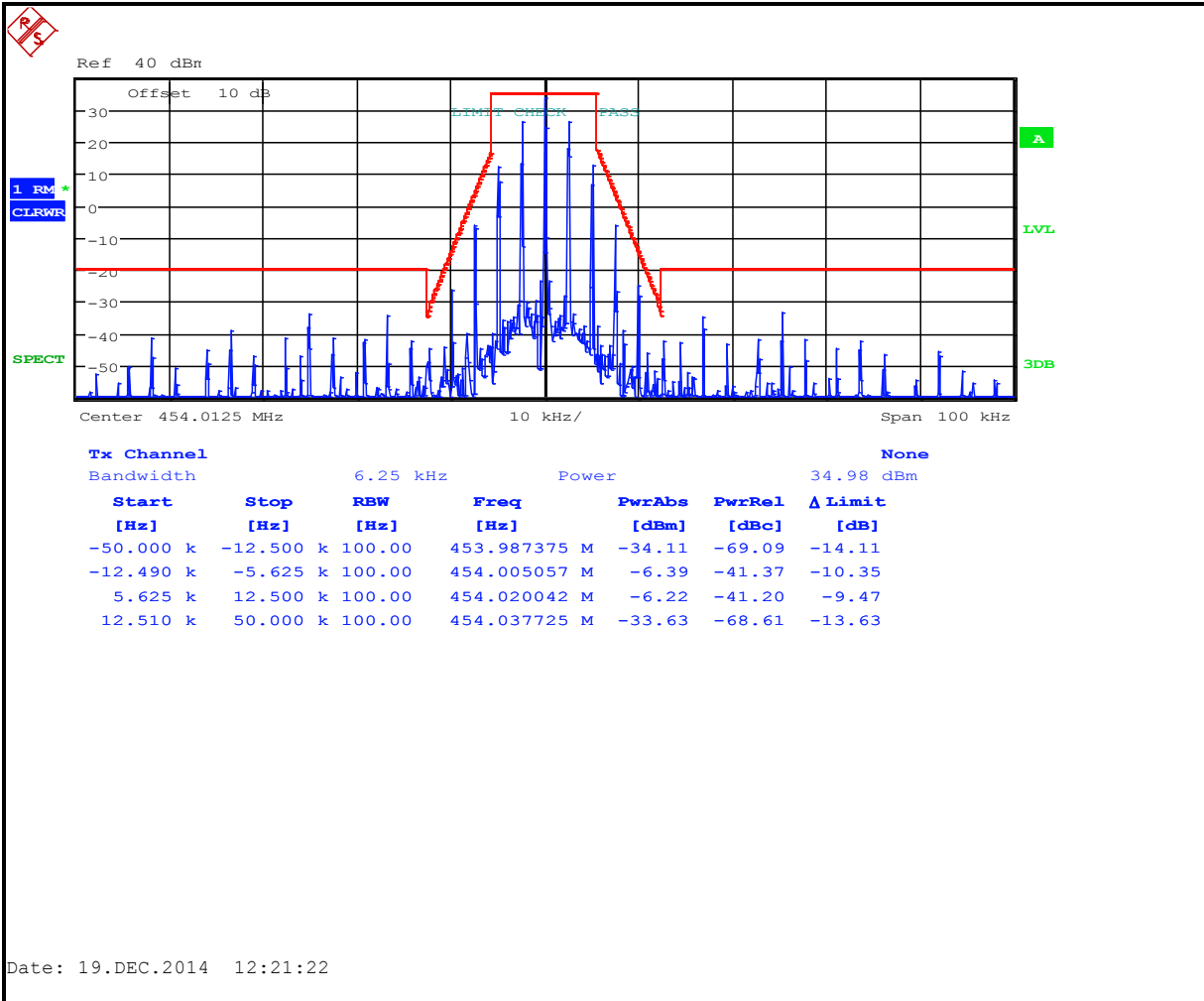
Plot 8-12: Occupied Bandwidth – 430.0125 MHz; Narrowband Analog (Mask D)



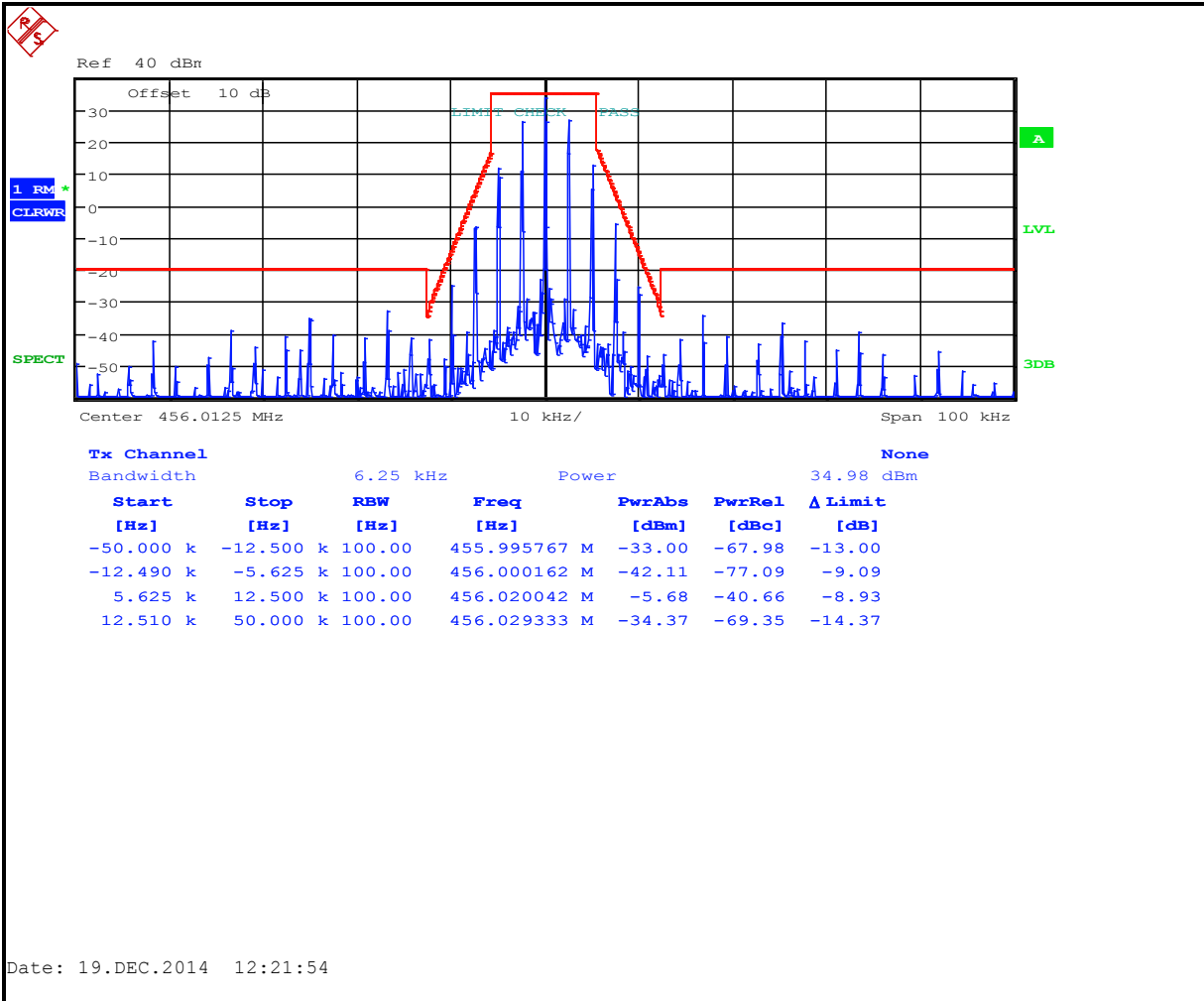
Plot 8-13: Occupied Bandwidth – 450.0125 MHz; Narrowband Analog (Mask D)



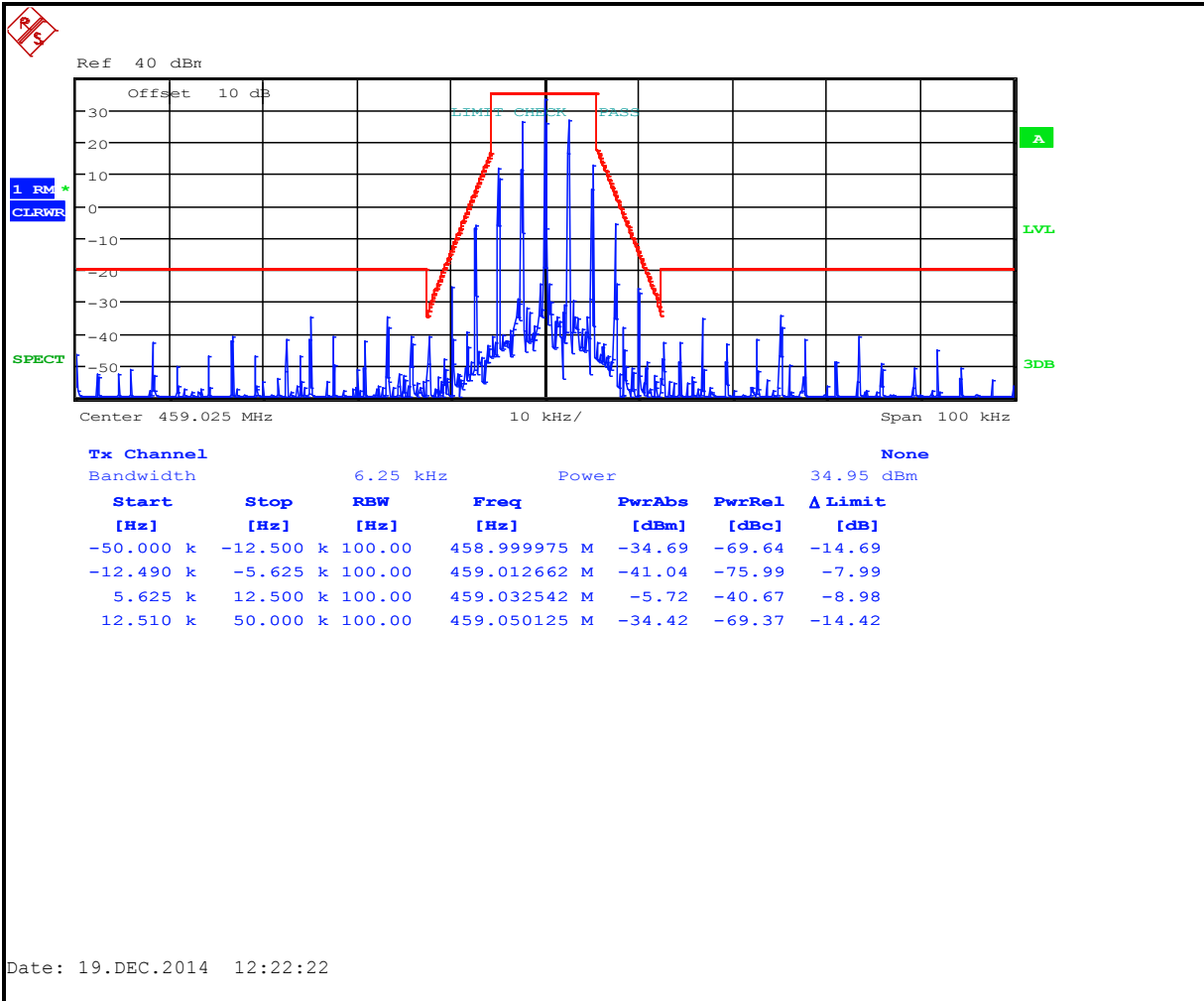
Plot 8-14: Occupied Bandwidth – 454.0125 MHz; Narrowband Analog (Mask D)



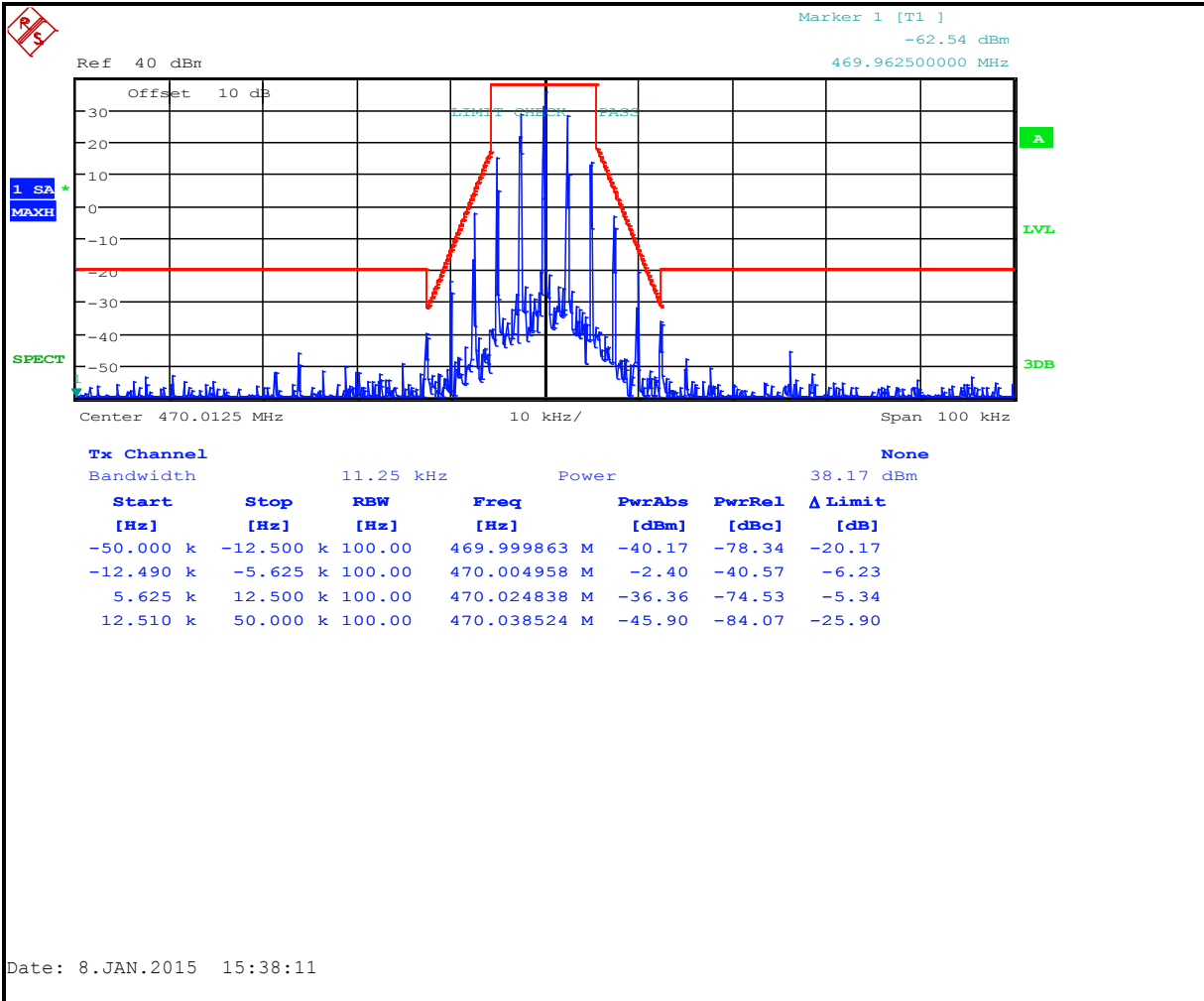
Plot 8-15: Occupied Bandwidth – 456.0125 MHz; Narrowband Analog (Mask D)



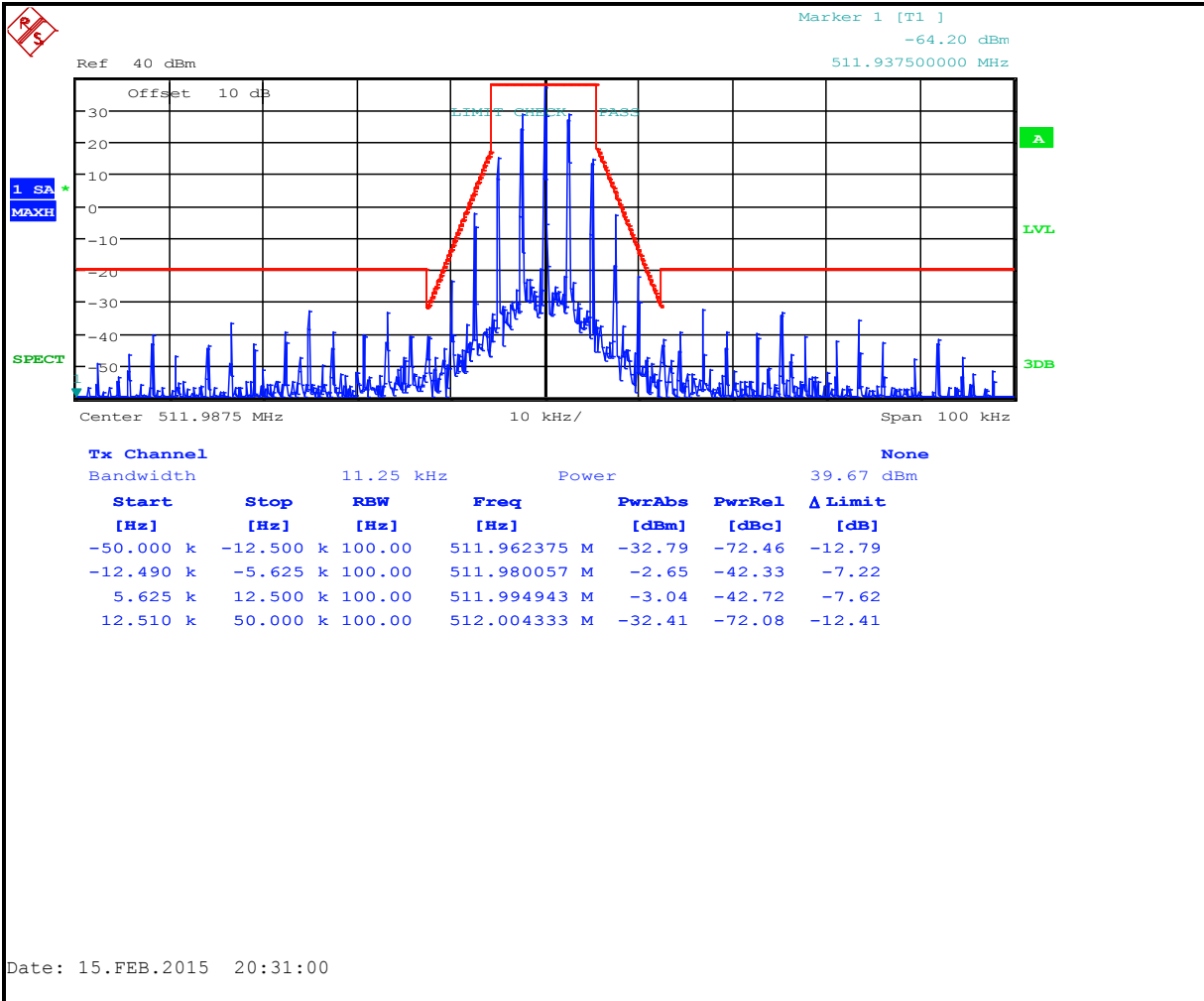
Plot 8-16: Occupied Bandwidth – 459.0250 MHz; Narrowband Analog (Mask D)



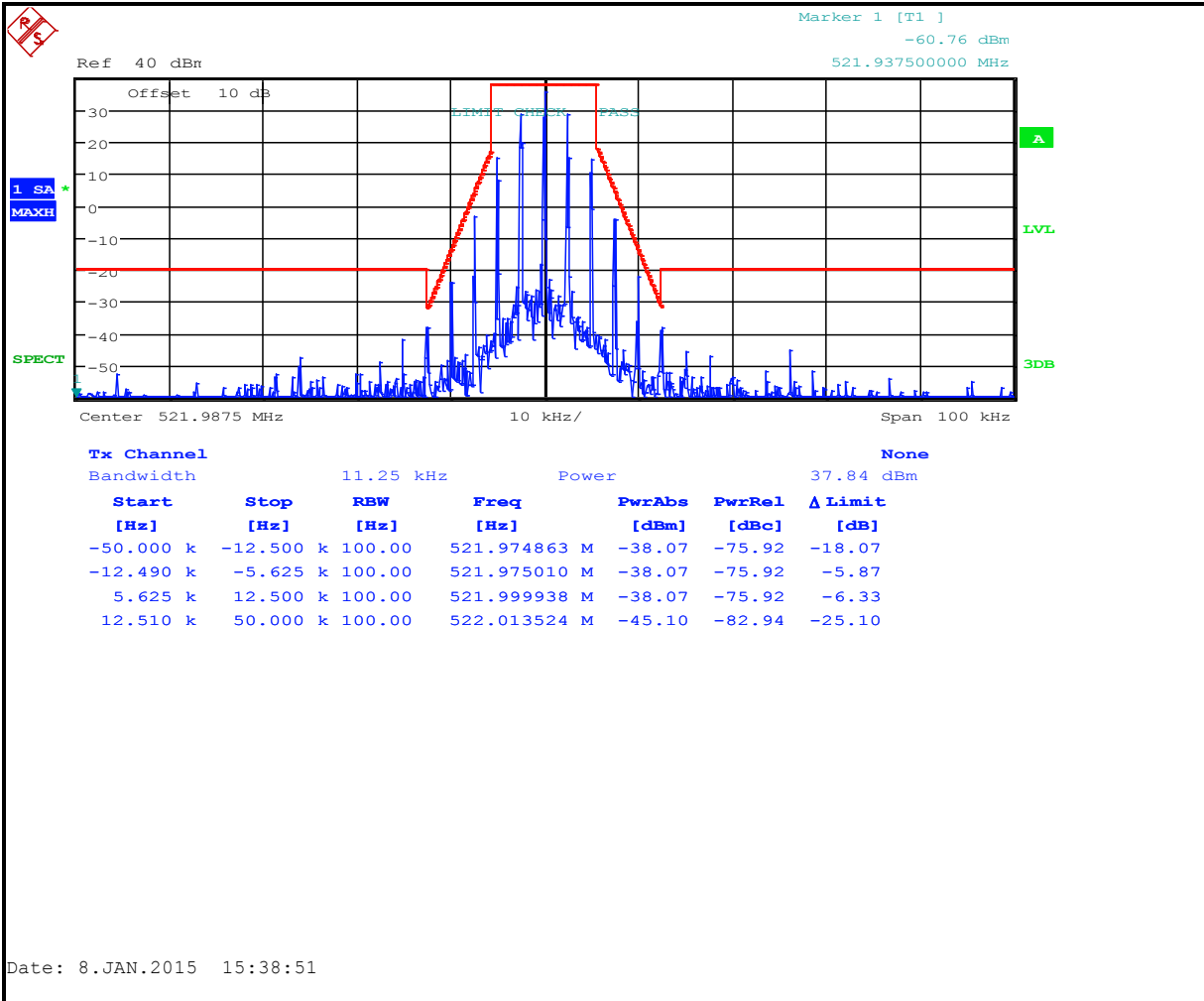
Plot 8-17: Occupied Bandwidth – 470.0125 MHz; Narrowband Analog (Mask D)



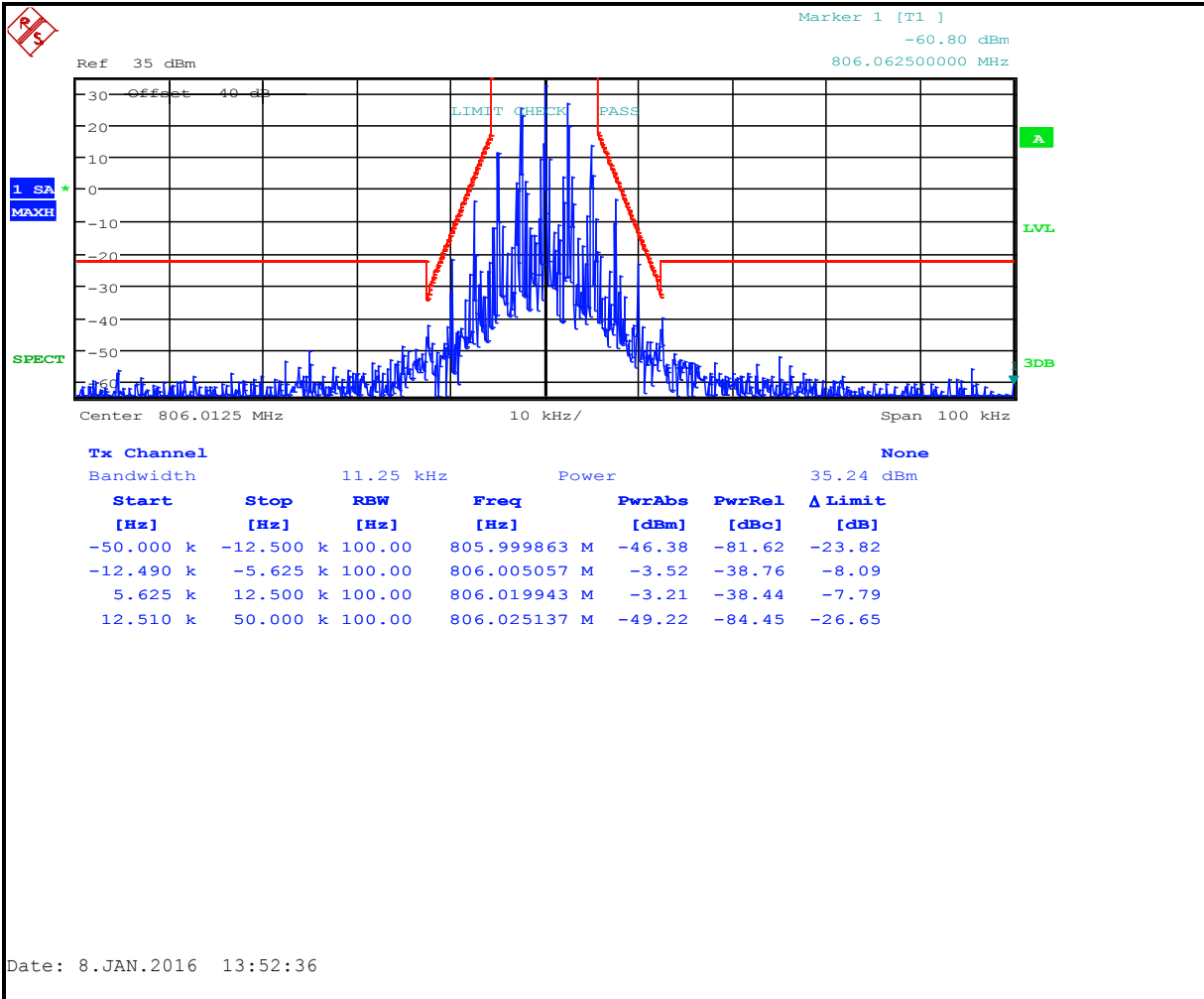
Plot 8-18: Occupied Bandwidth – 511.9875 MHz; Narrowband Analog (Mask D)



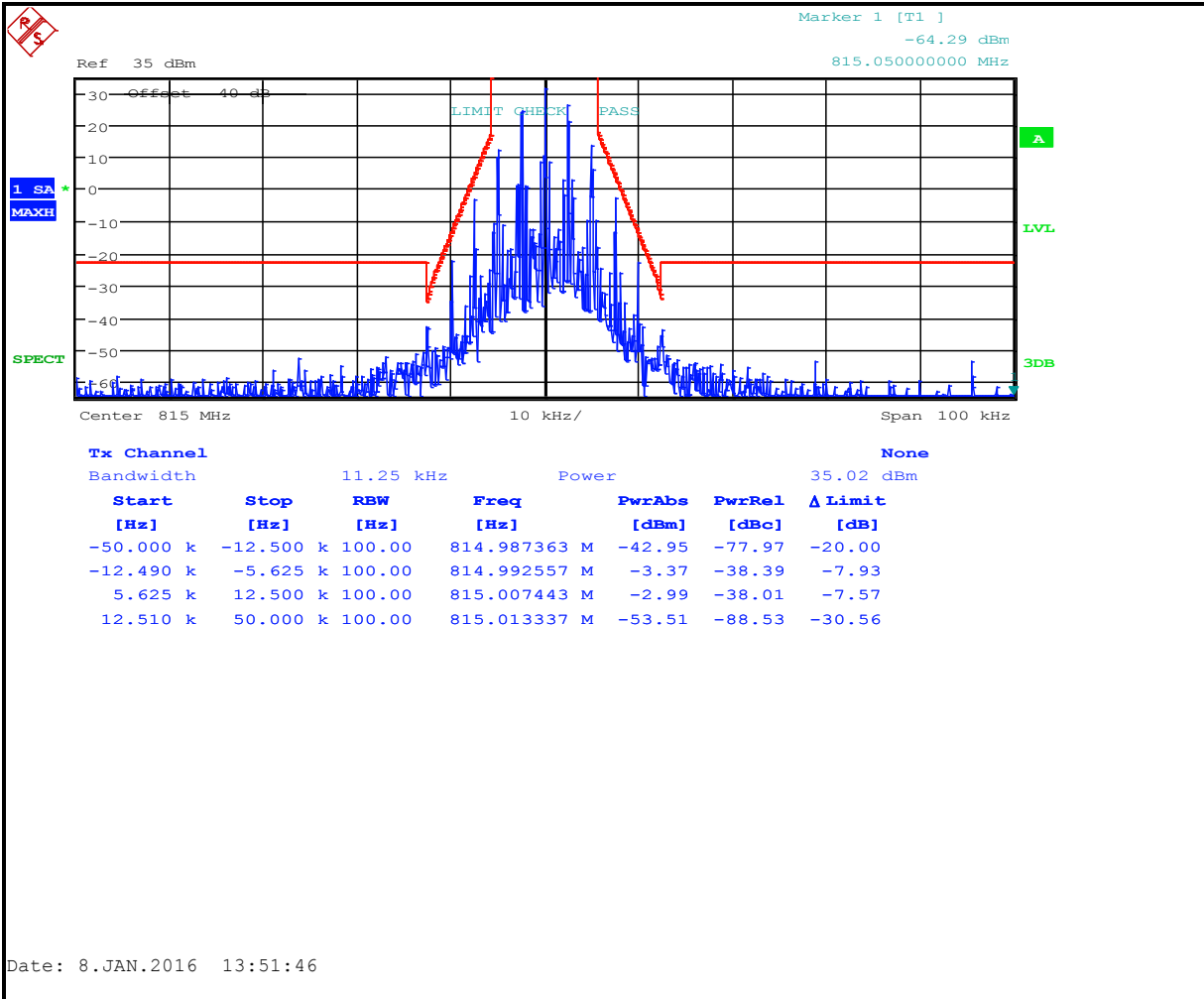
Plot 8-19: Occupied Bandwidth – 521.9875 MHz; Narrowband Analog (Mask D)



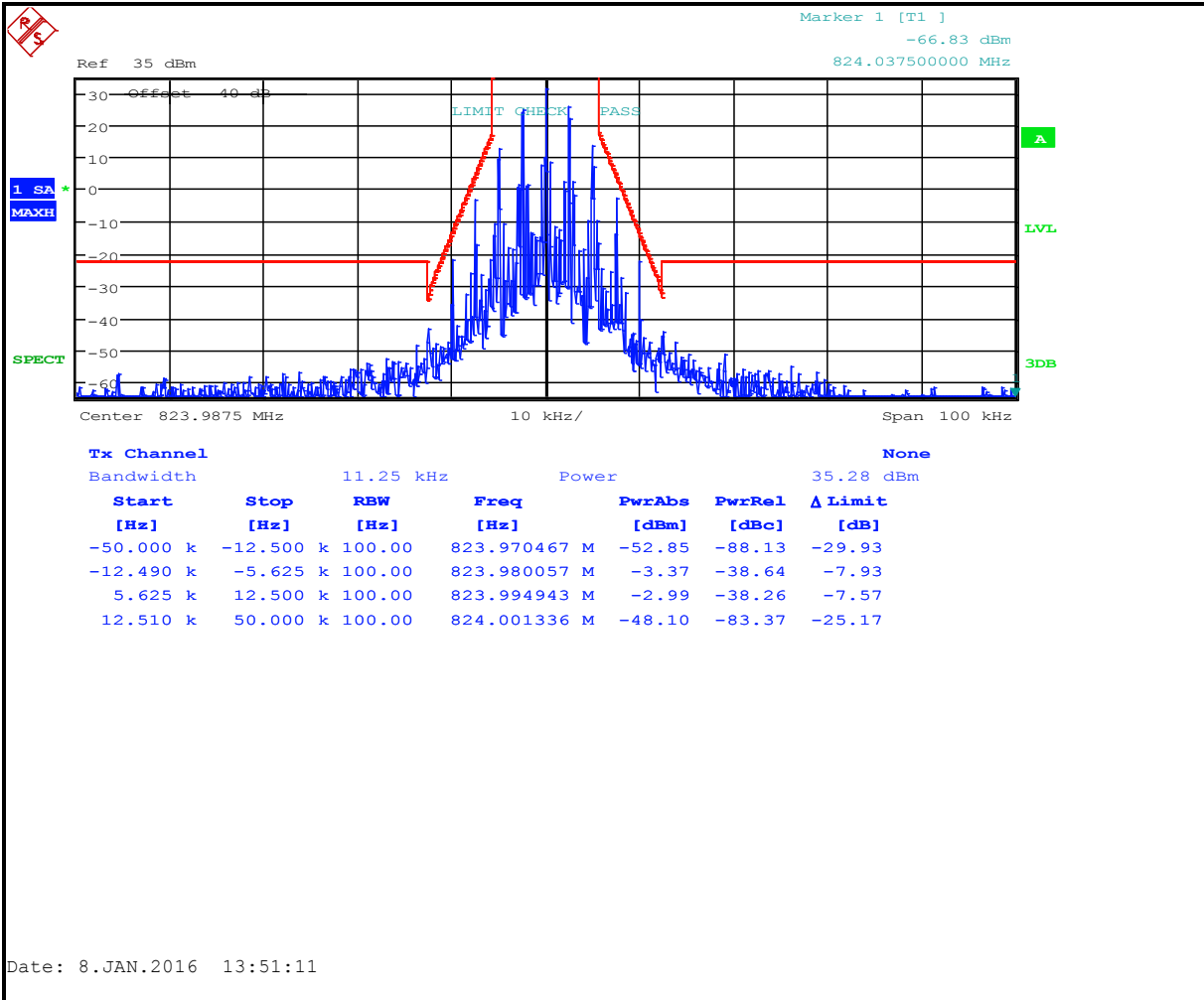
Plot 8-20: Occupied Bandwidth – 806.0125 MHz; Narrowband Analog (Mask D)



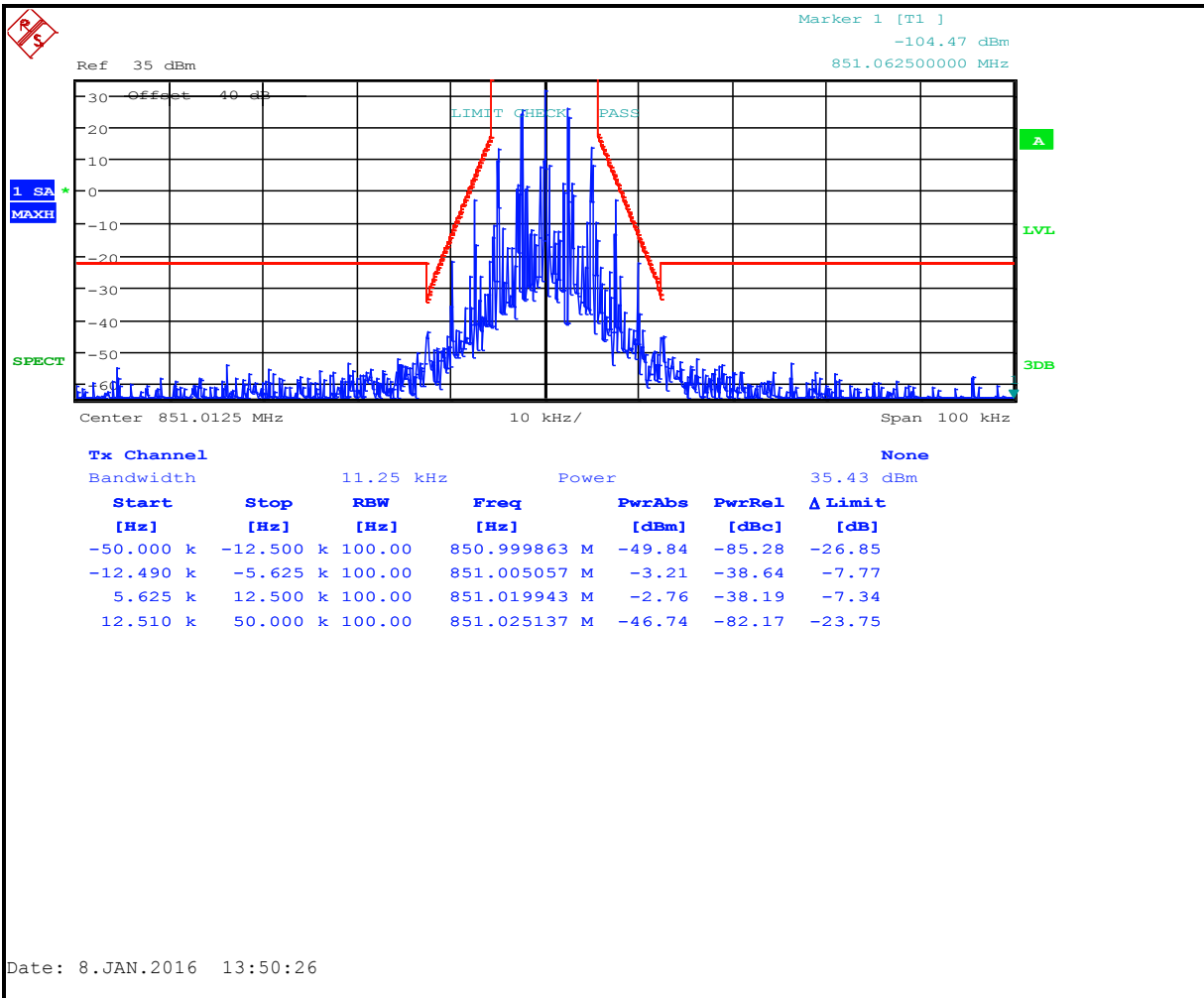
Plot 8-21: Occupied Bandwidth – 815.0000 MHz; Narrowband Analog (Mask D)



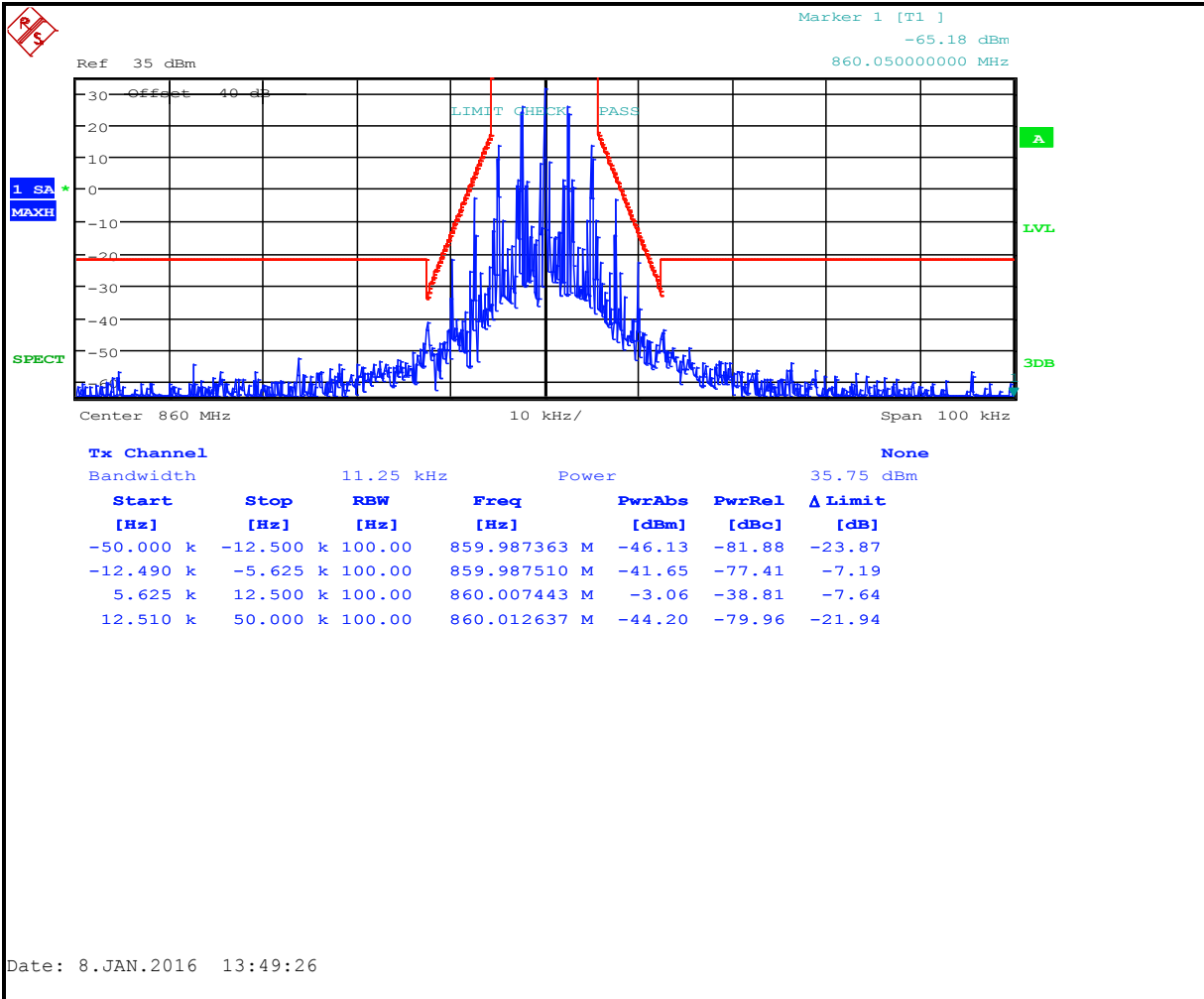
Plot 8-22: Occupied Bandwidth – 823.9875 MHz; Narrowband Analog (Mask D)



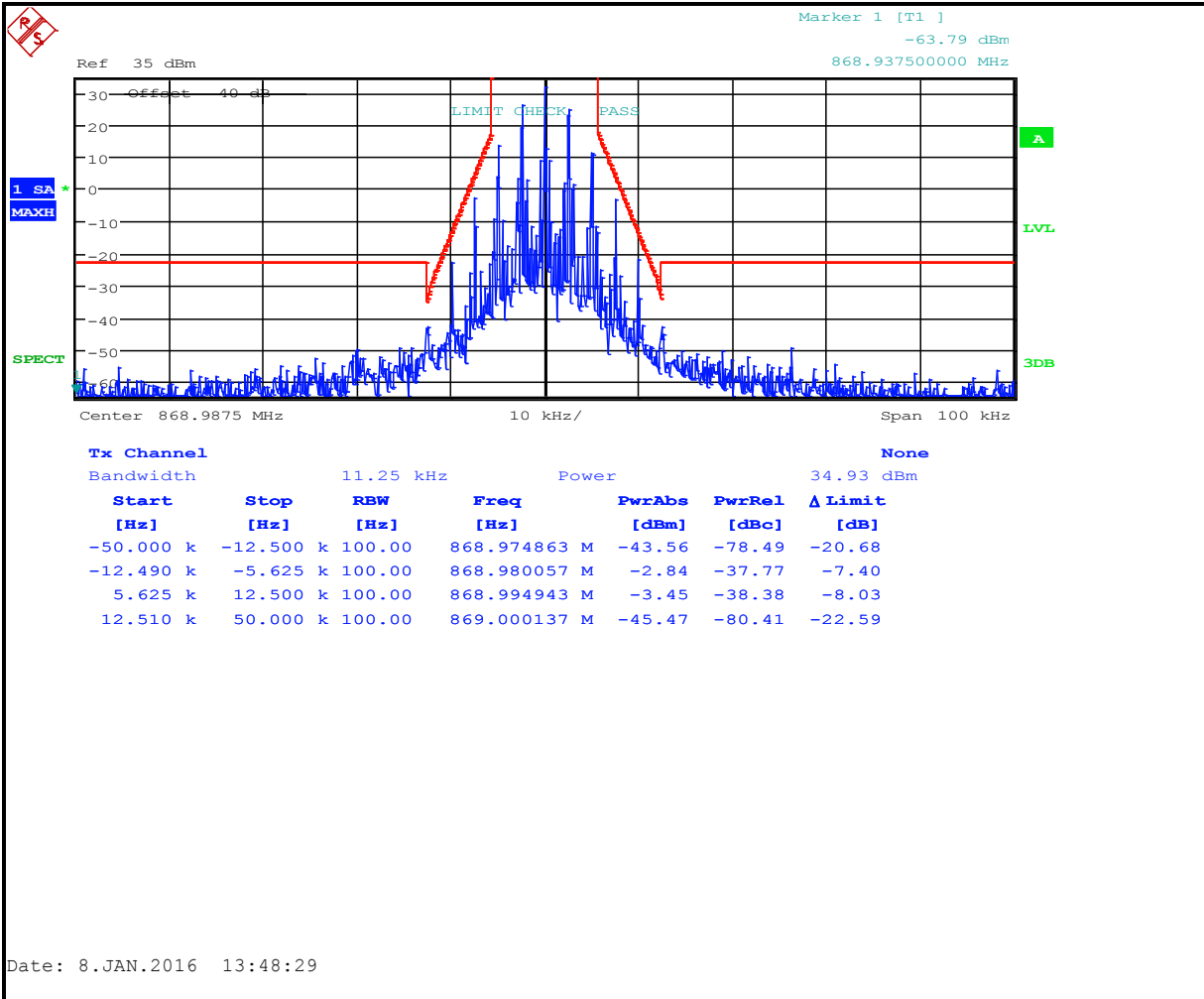
Plot 8-23: Occupied Bandwidth – 851.0125 MHz; Narrowband Analog (Mask D)



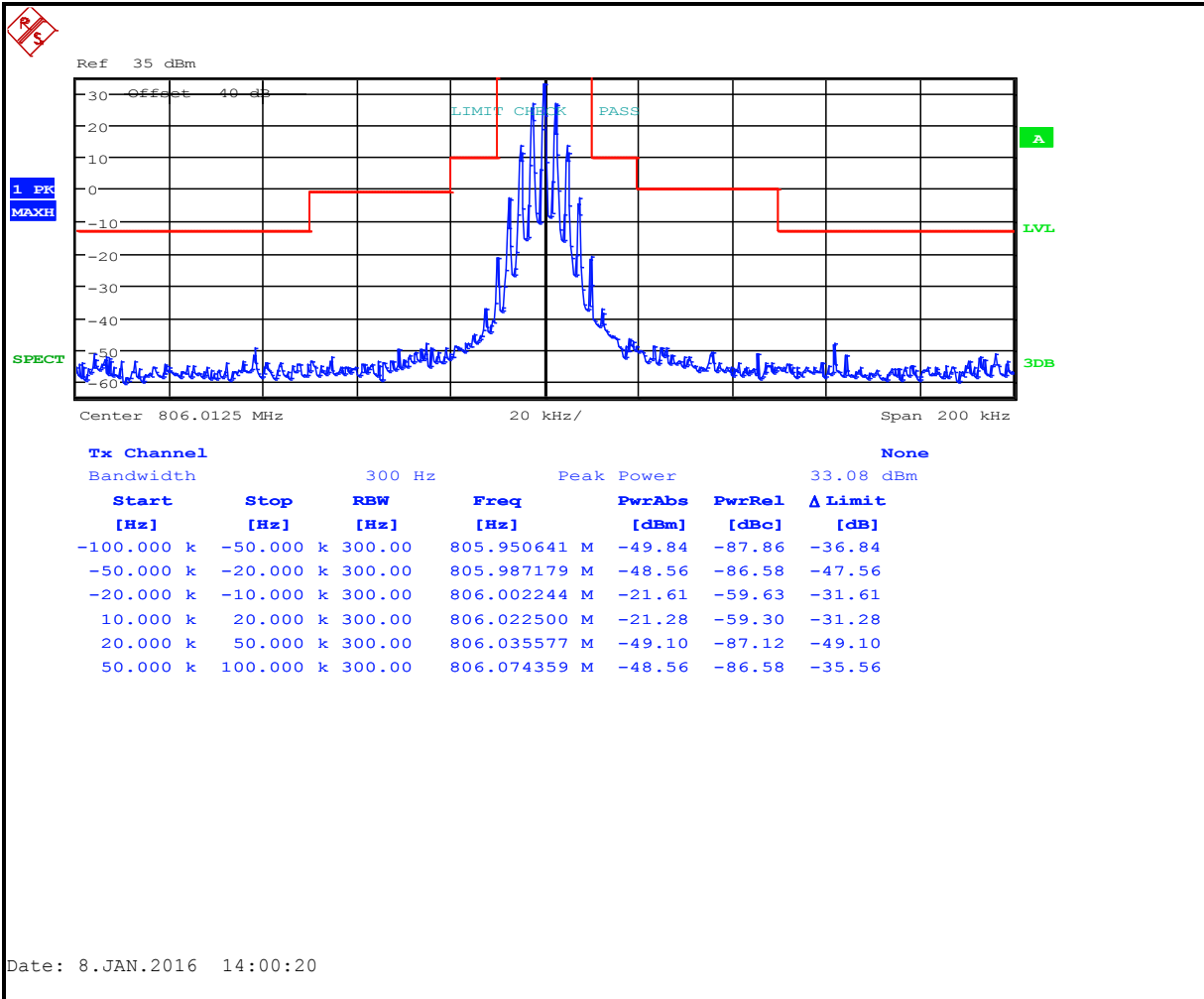
Plot 8-24: Occupied Bandwidth – 860.0000 MHz; Narrowband Analog (Mask D)



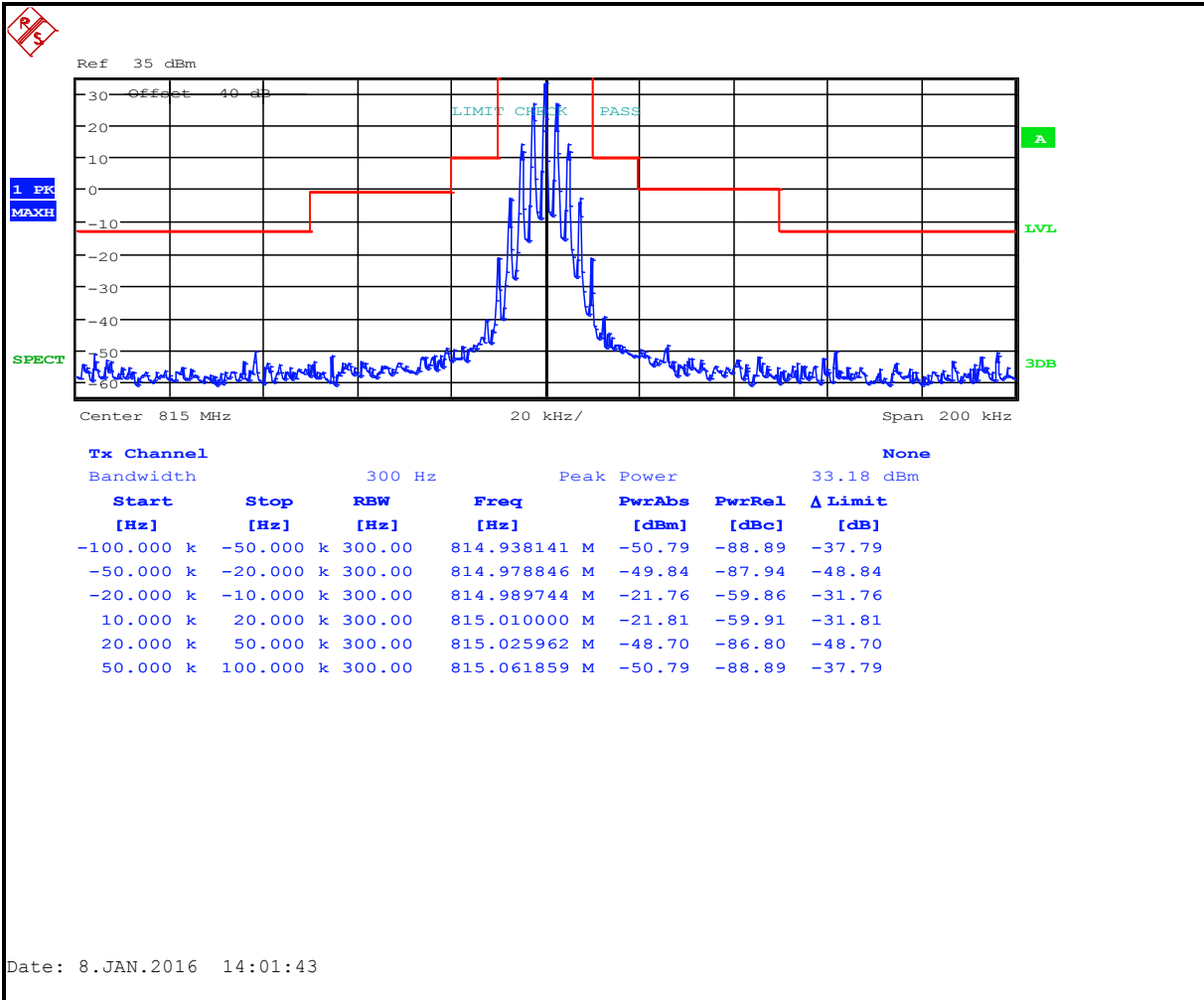
Plot 8-25: Occupied Bandwidth – 868.9875 MHz; Narrowband Analog (Mask D)



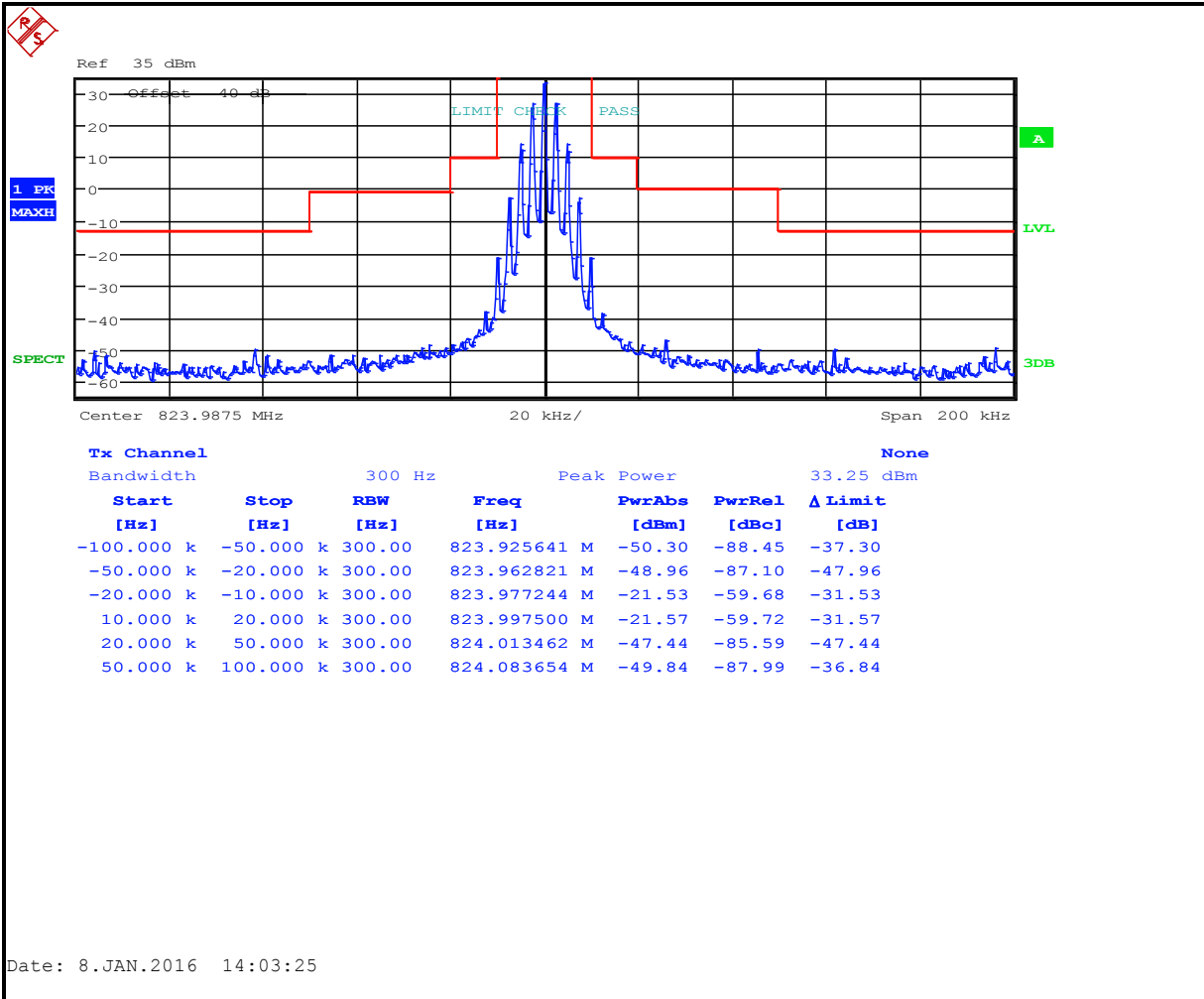
Plot 8-26: Occupied Bandwidth – 806.0125 MHz; Narrowband Analog (Mask B)



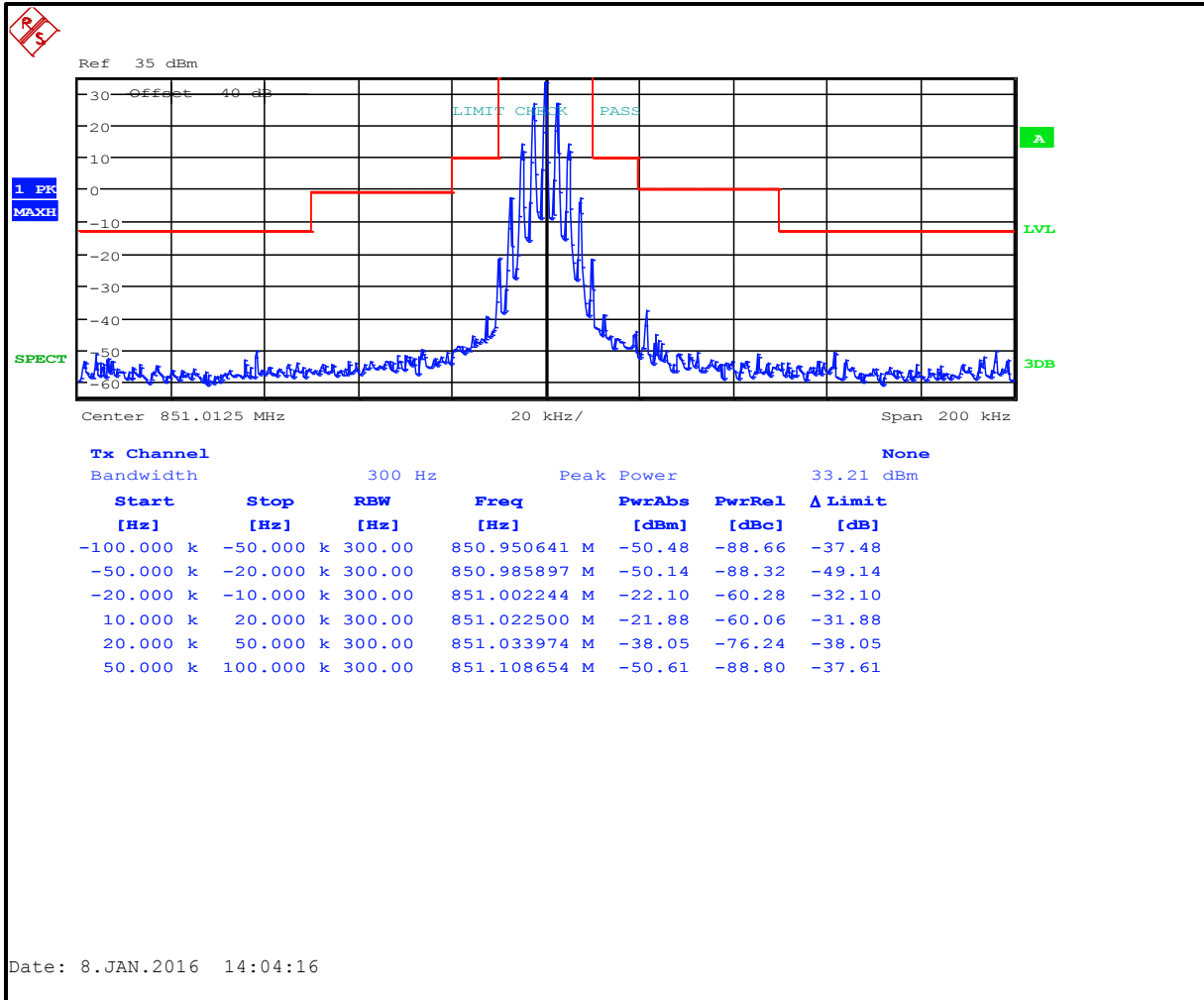
Plot 8-27: Occupied Bandwidth – 815.0000 MHz; Narrowband Analog (Mask B)



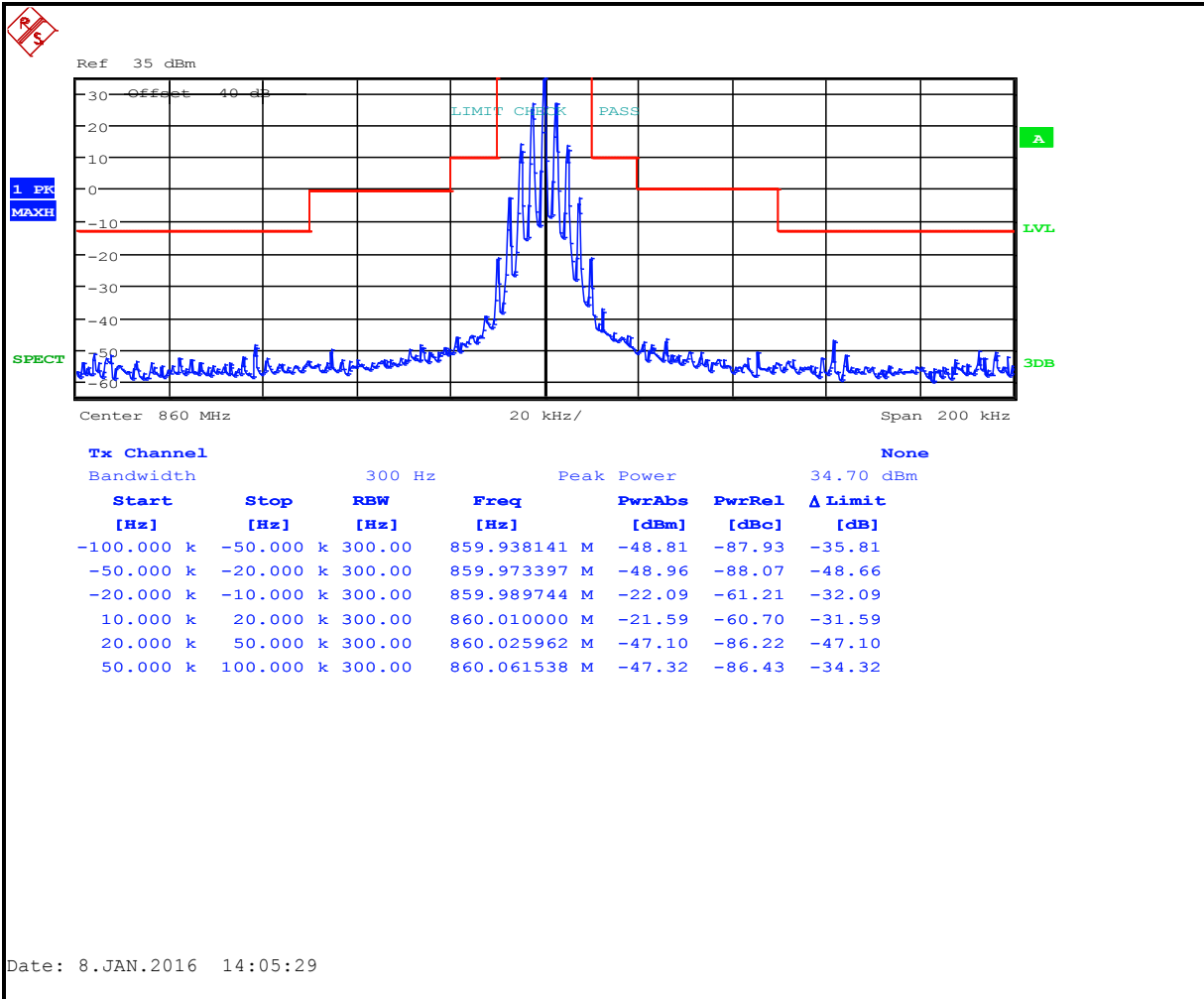
Plot 8-28: Occupied Bandwidth – 823.9875 MHz; Narrowband Analog (Mask B)



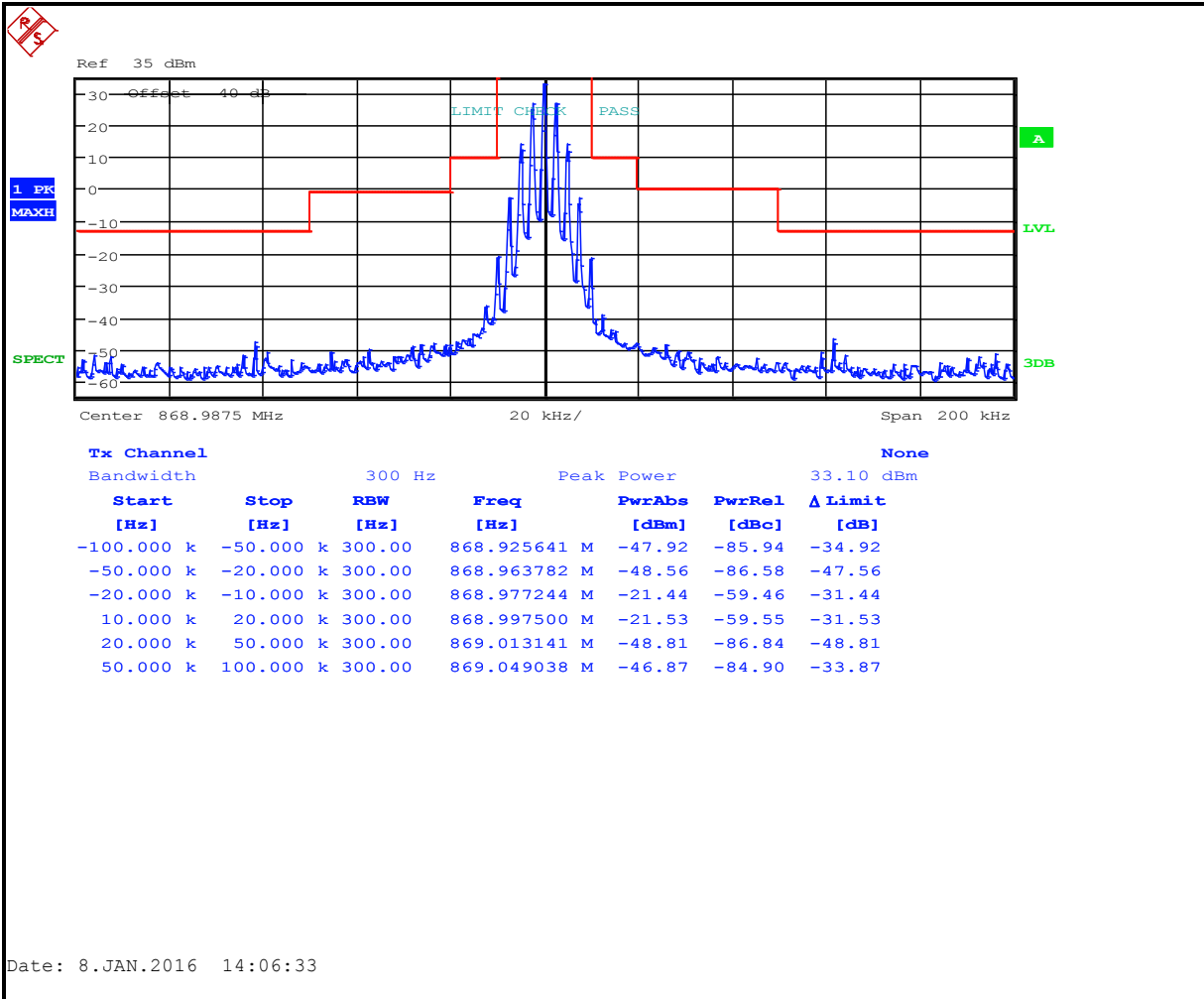
Plot 8-29: Occupied Bandwidth – 851.0125 MHz; Narrowband Analog (Mask B)



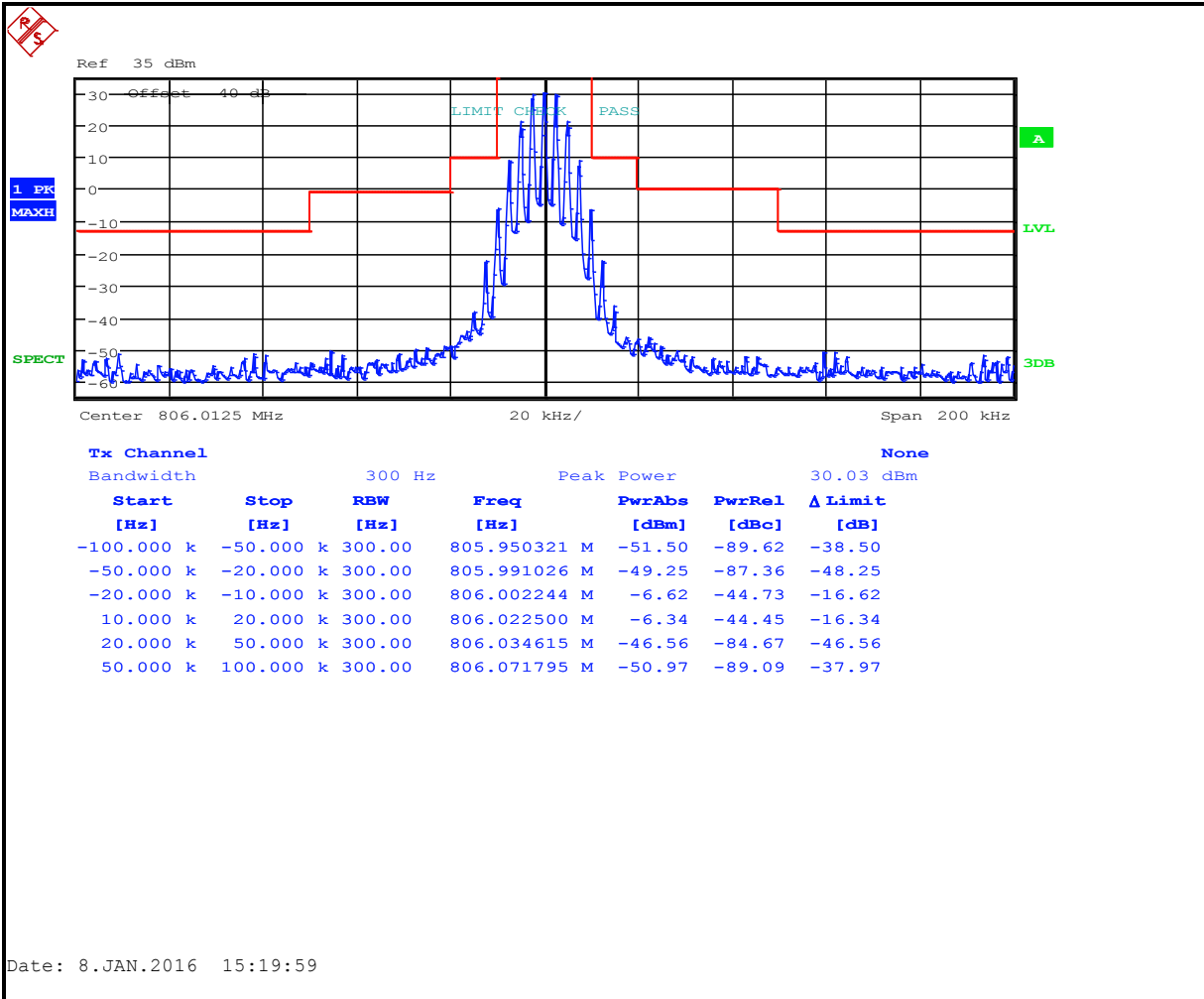
Plot 8-30: Occupied Bandwidth – 860.0000 MHz; Narrowband Analog (Mask B)



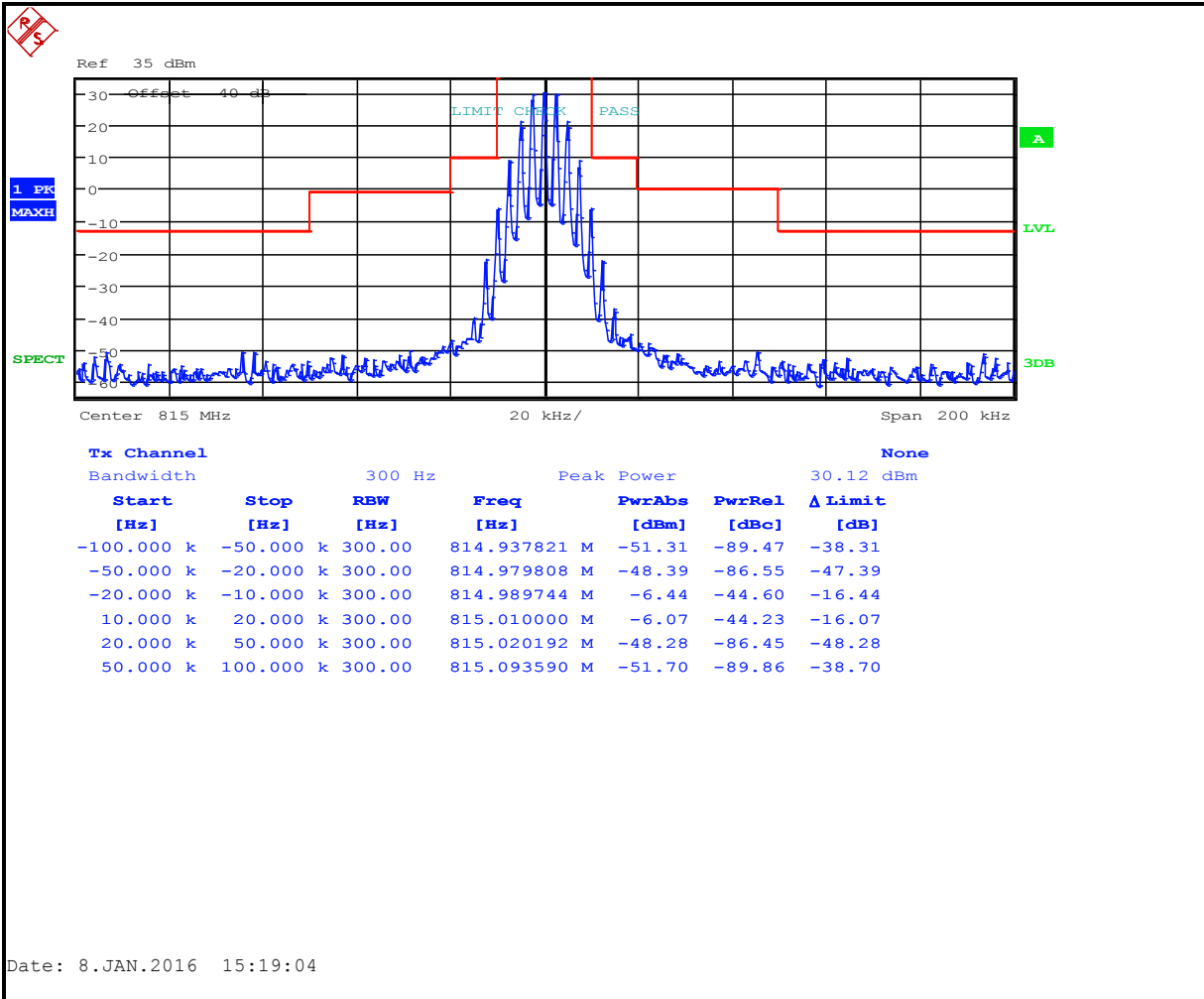
Plot 8-31: Occupied Bandwidth – 868.9875 MHz; Narrowband Analog (Mask B)



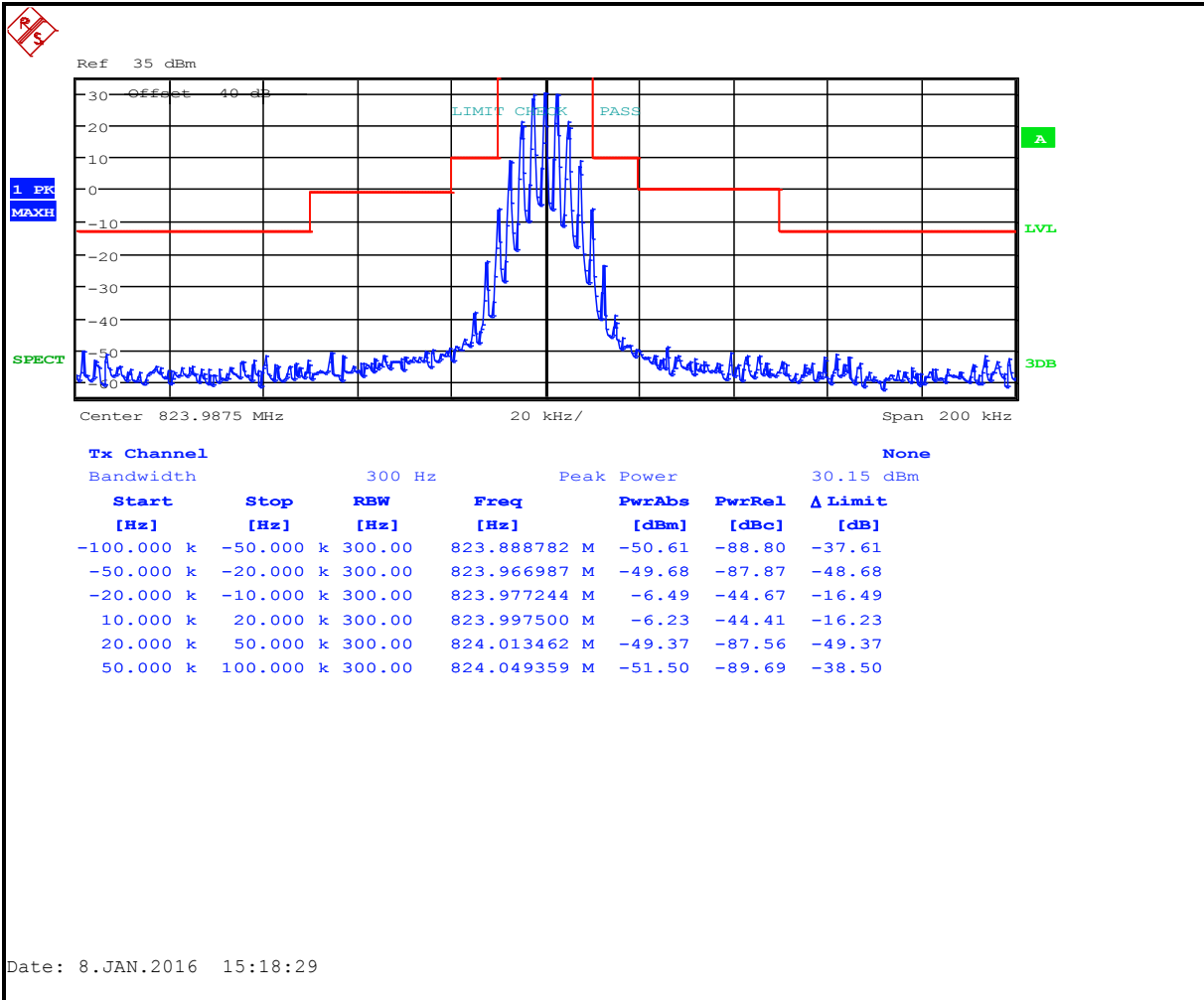
Plot 8-32: Occupied Bandwidth – 806.0125 MHz; NPSPAC Analog (Mask B)



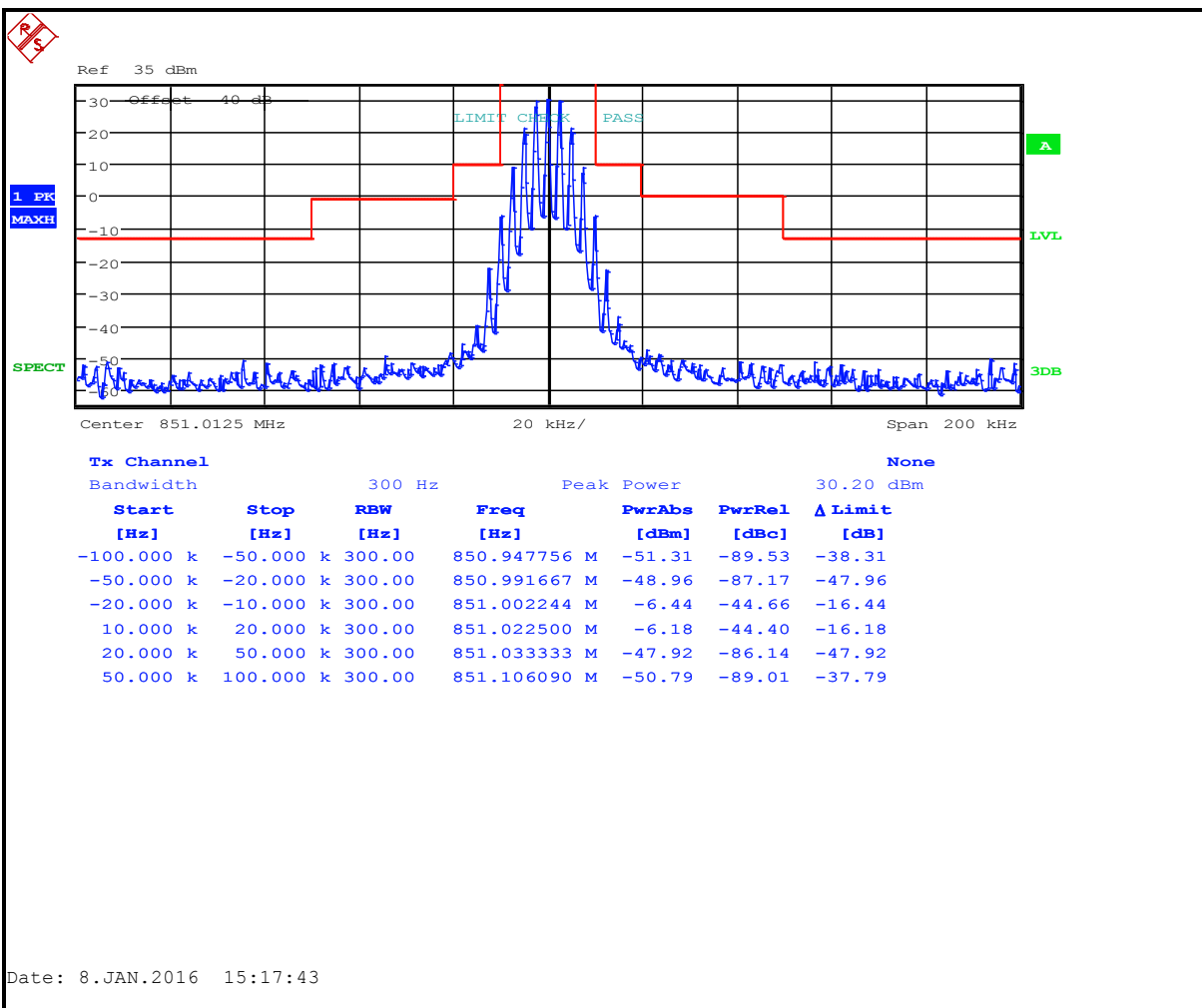
Plot 8-33: Occupied Bandwidth – 815.0000 MHz; NPSPAC Analog (Mask B)



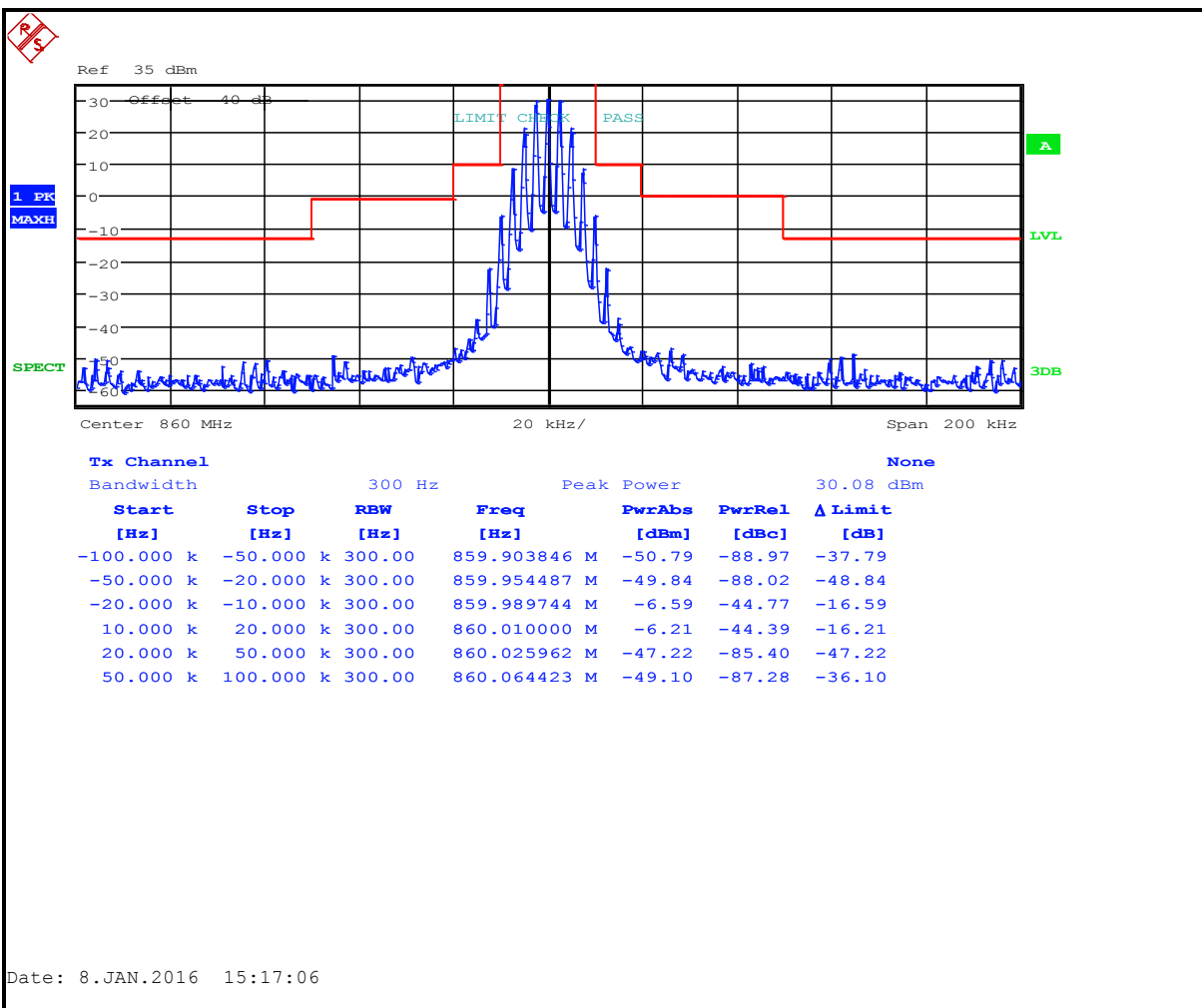
Plot 8-34: Occupied Bandwidth – 823.9875 MHz; NPSPAC Analog (Mask B)



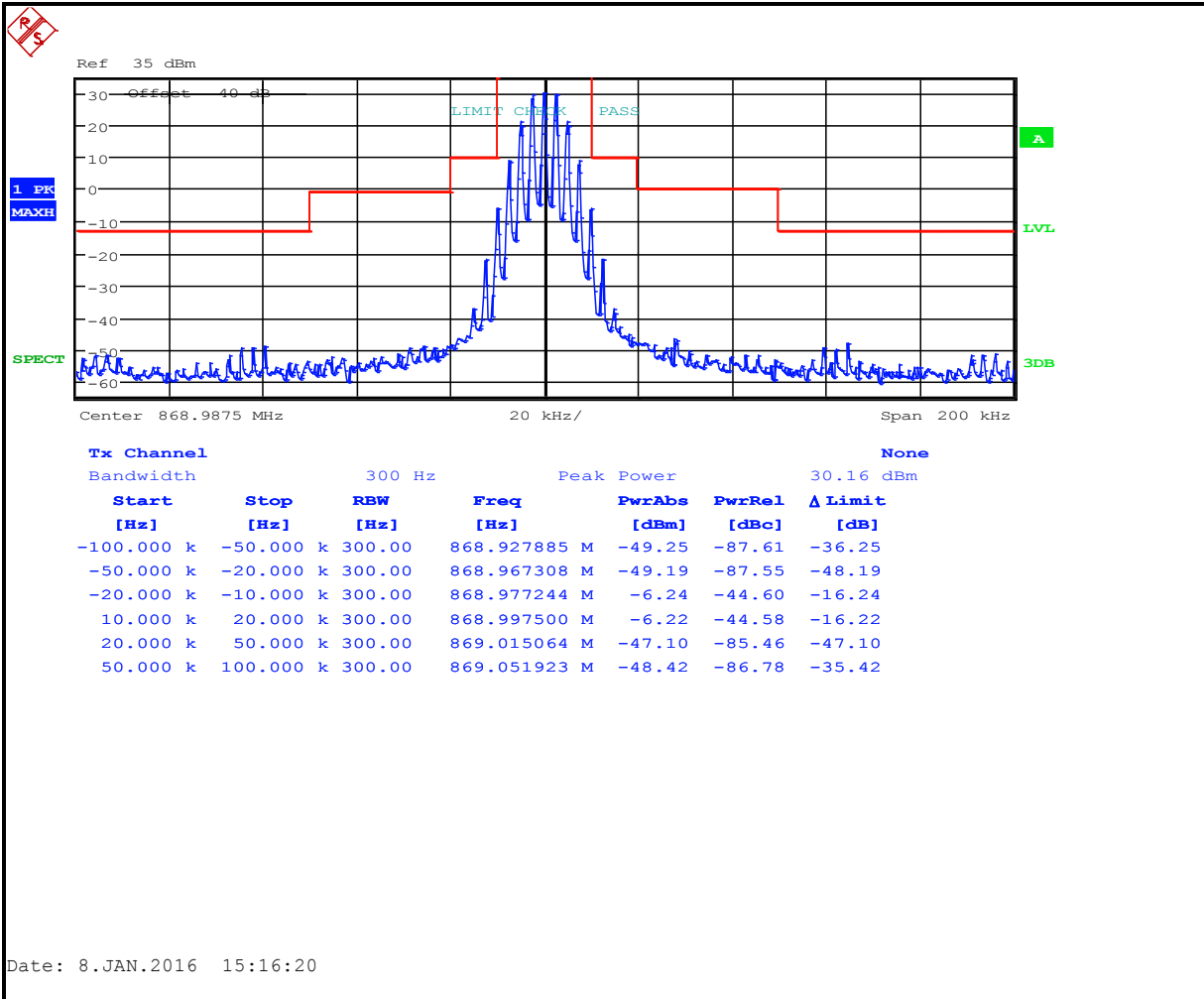
Plot 8-35: Occupied Bandwidth – 851.0125 MHz; NPSPAC Analog (Mask B)



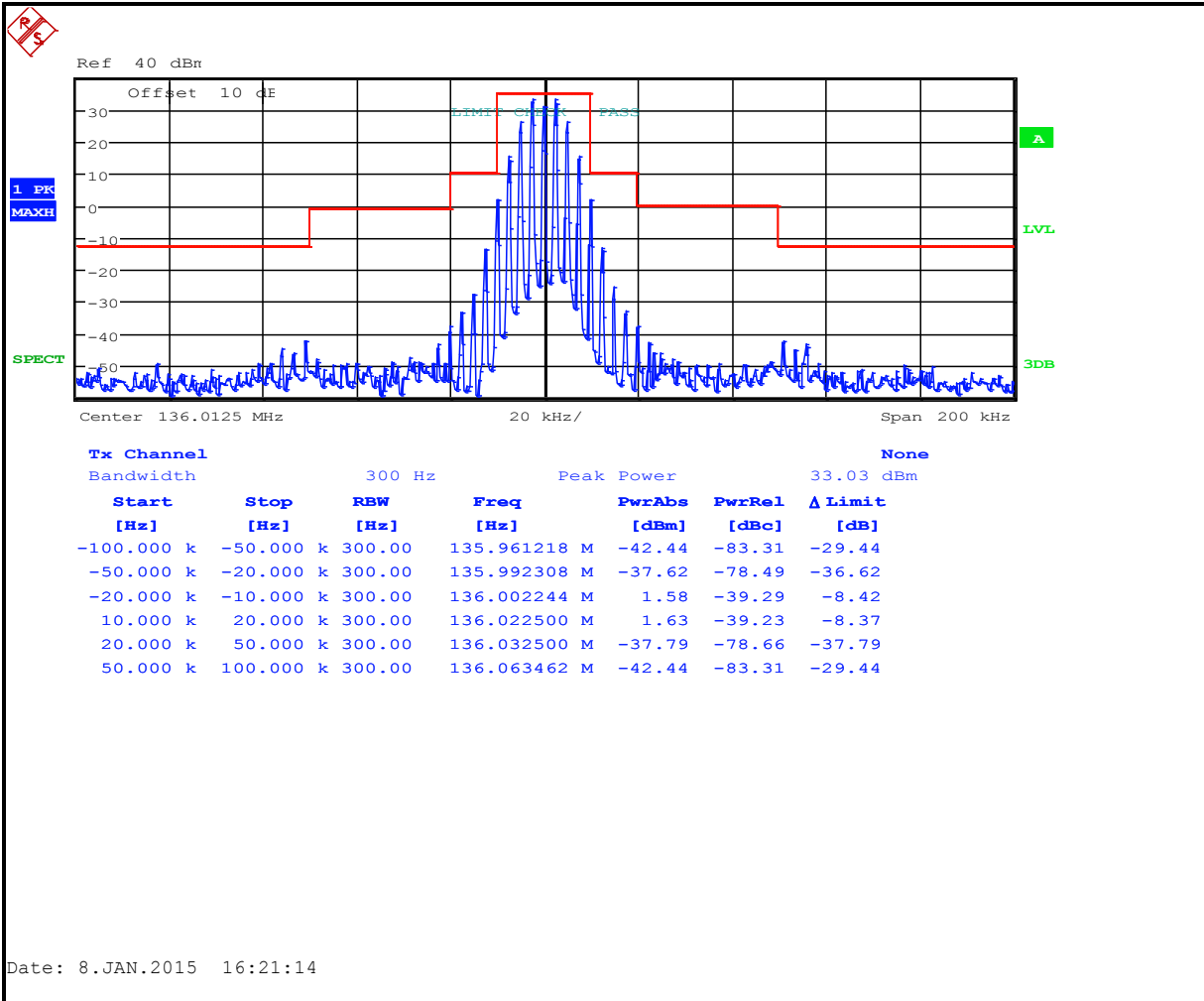
Plot 8-36: Occupied Bandwidth – 860.0000 MHz; NPSPAC Analog (Mask B)



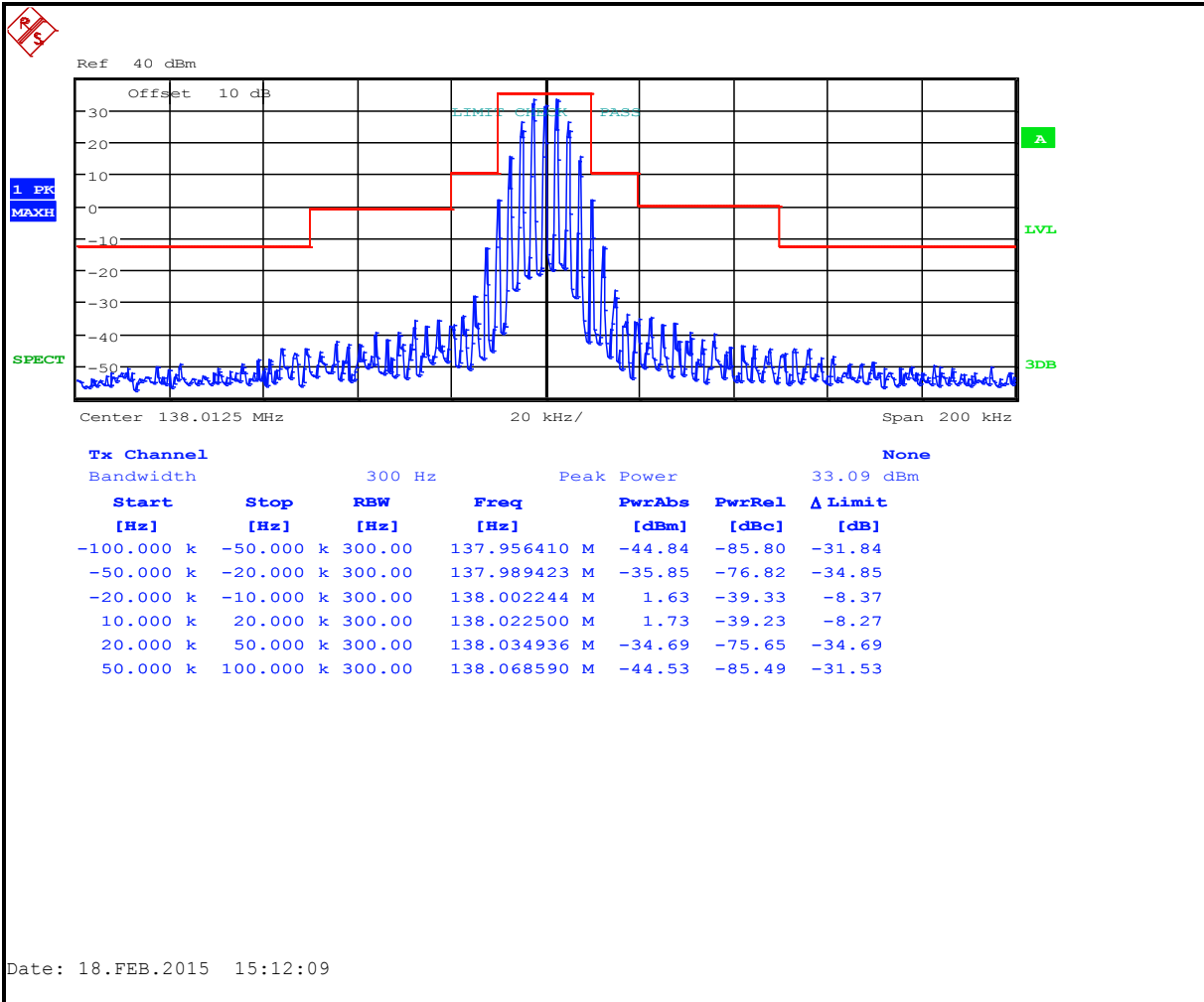
Plot 8-37: Occupied Bandwidth – 868.9875 MHz; NPSPAC Analog (Mask B)



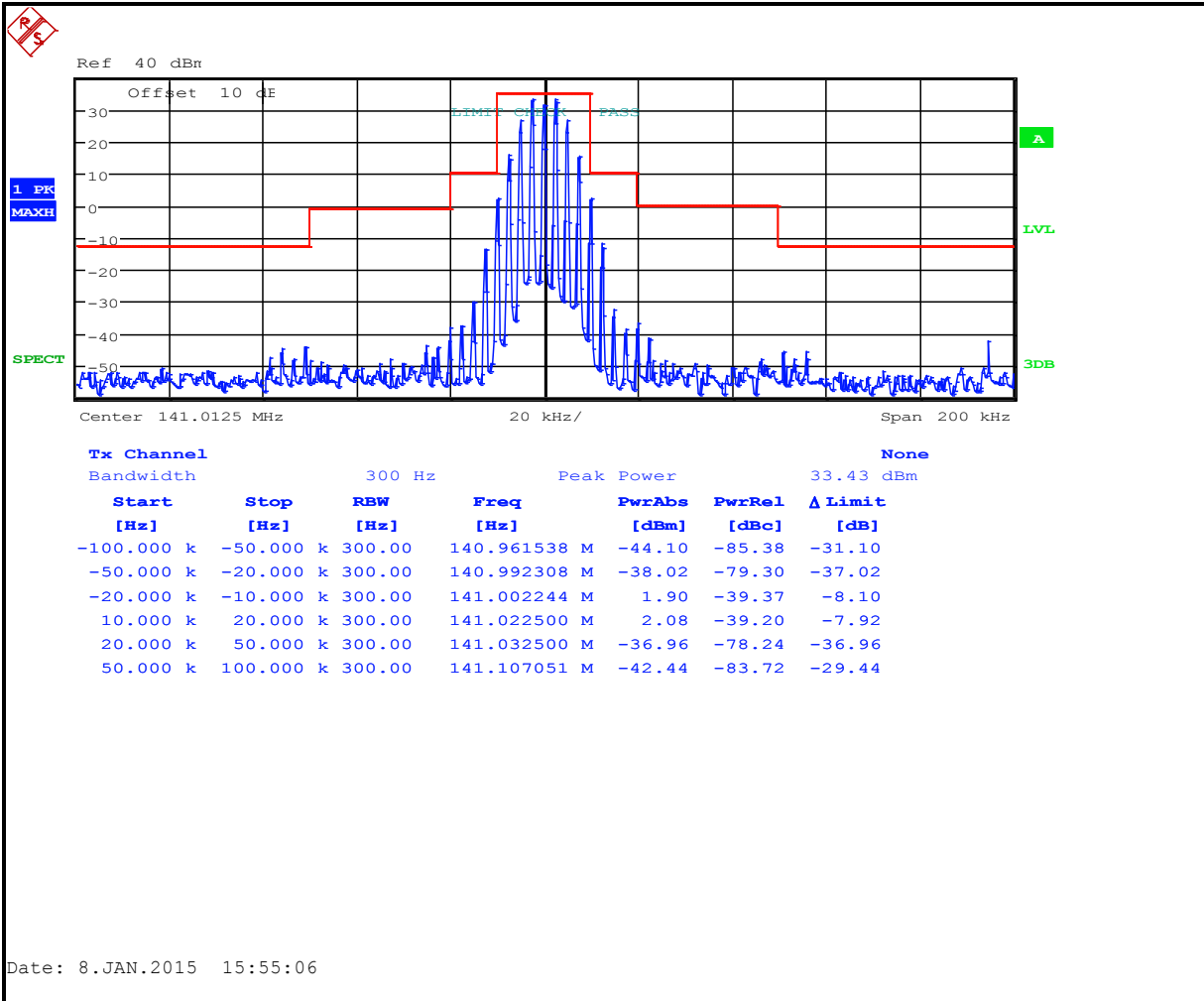
Plot 8-38: Occupied Bandwidth – 136.0125 MHz; Wideband Analog (Mask B)



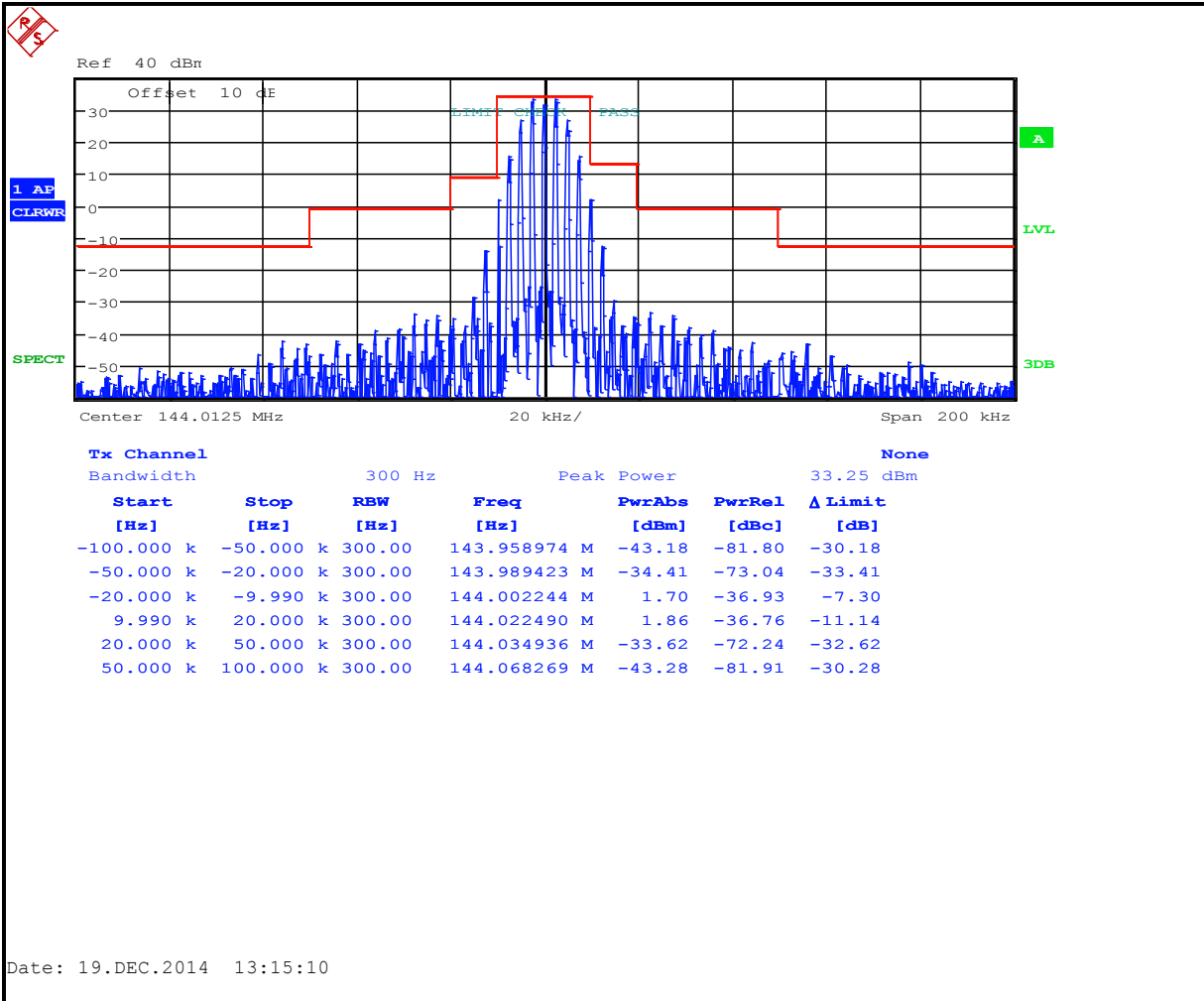
Plot 8-39: Occupied Bandwidth – 138.0125 MHz; Wideband Analog (Mask B)



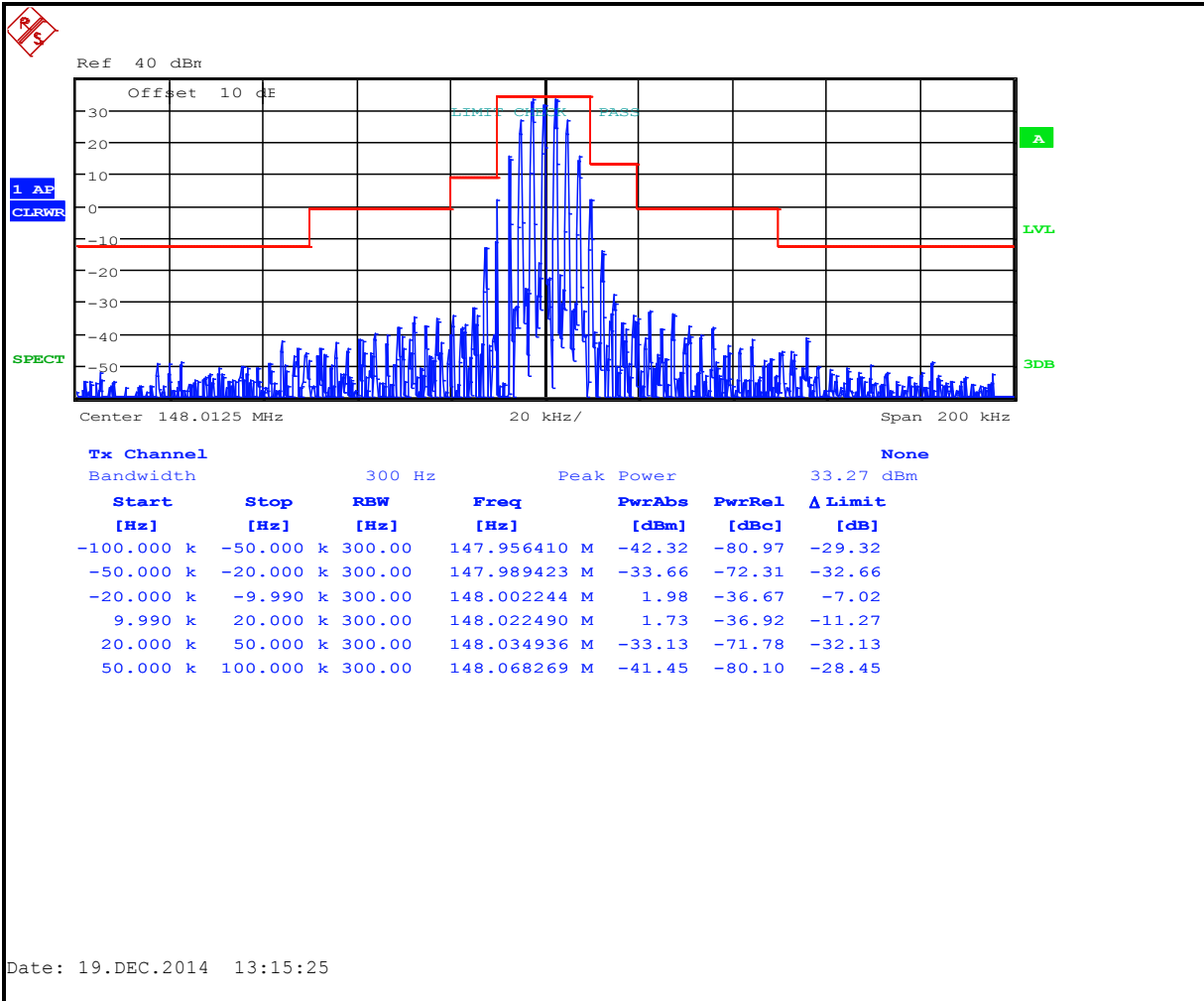
Plot 8-40: Occupied Bandwidth – 141.0125 MHz; Wideband Analog (Mask B)



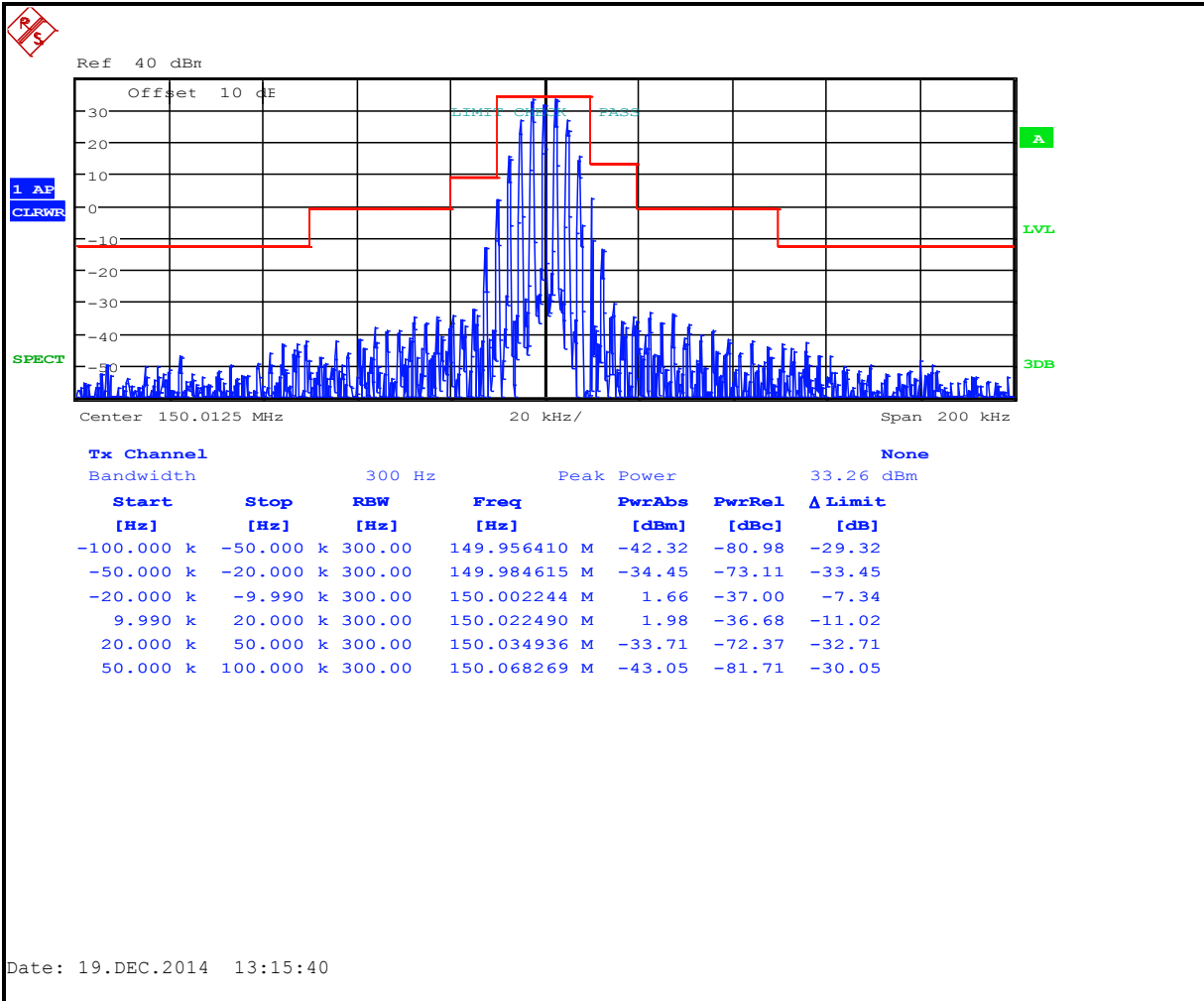
Plot 8-41: Occupied Bandwidth – 144.0125 MHz; Wideband Analog (Mask B)



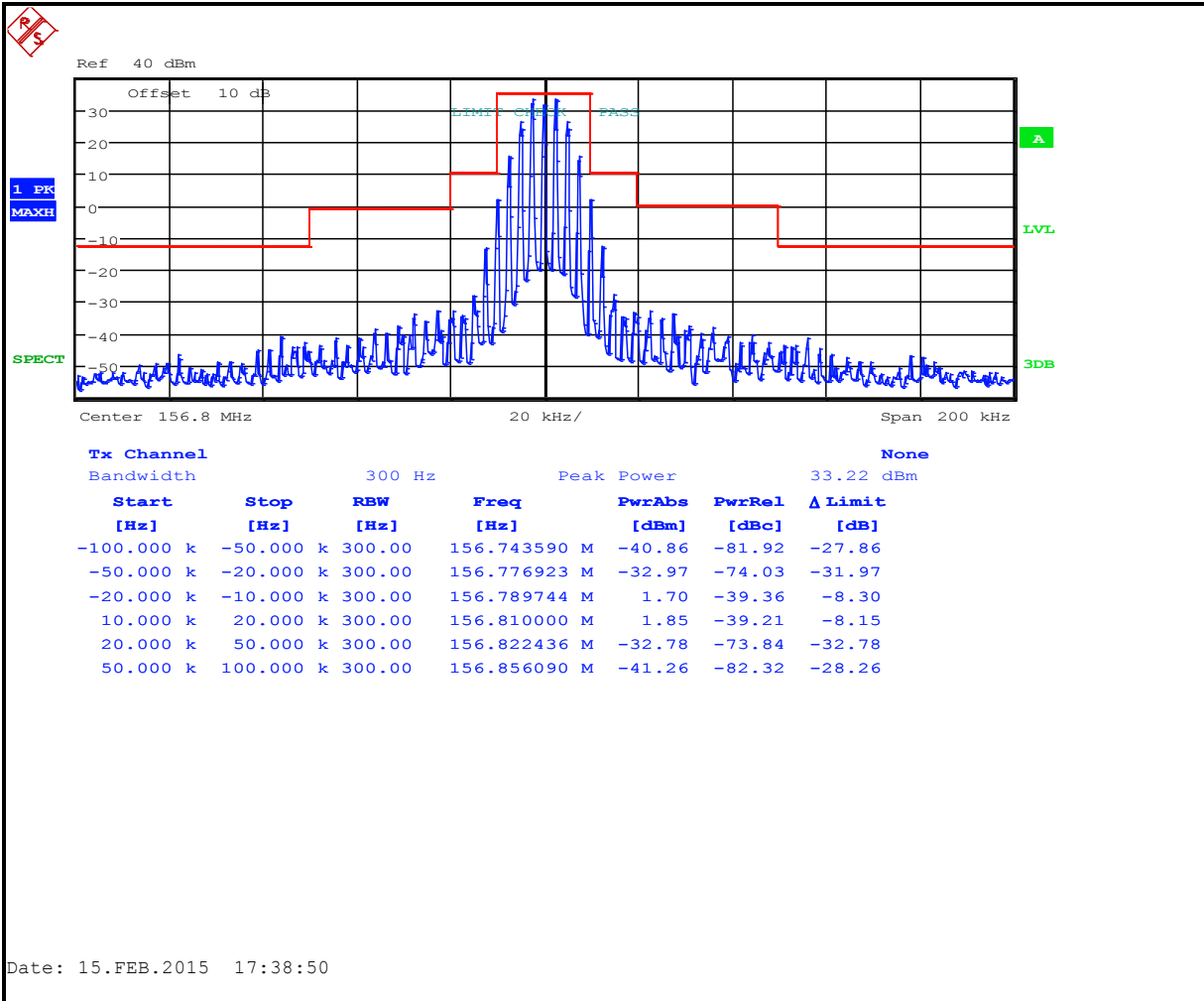
Plot 8-42: Occupied Bandwidth – 148.0125 MHz; Wideband Analog (Mask B)



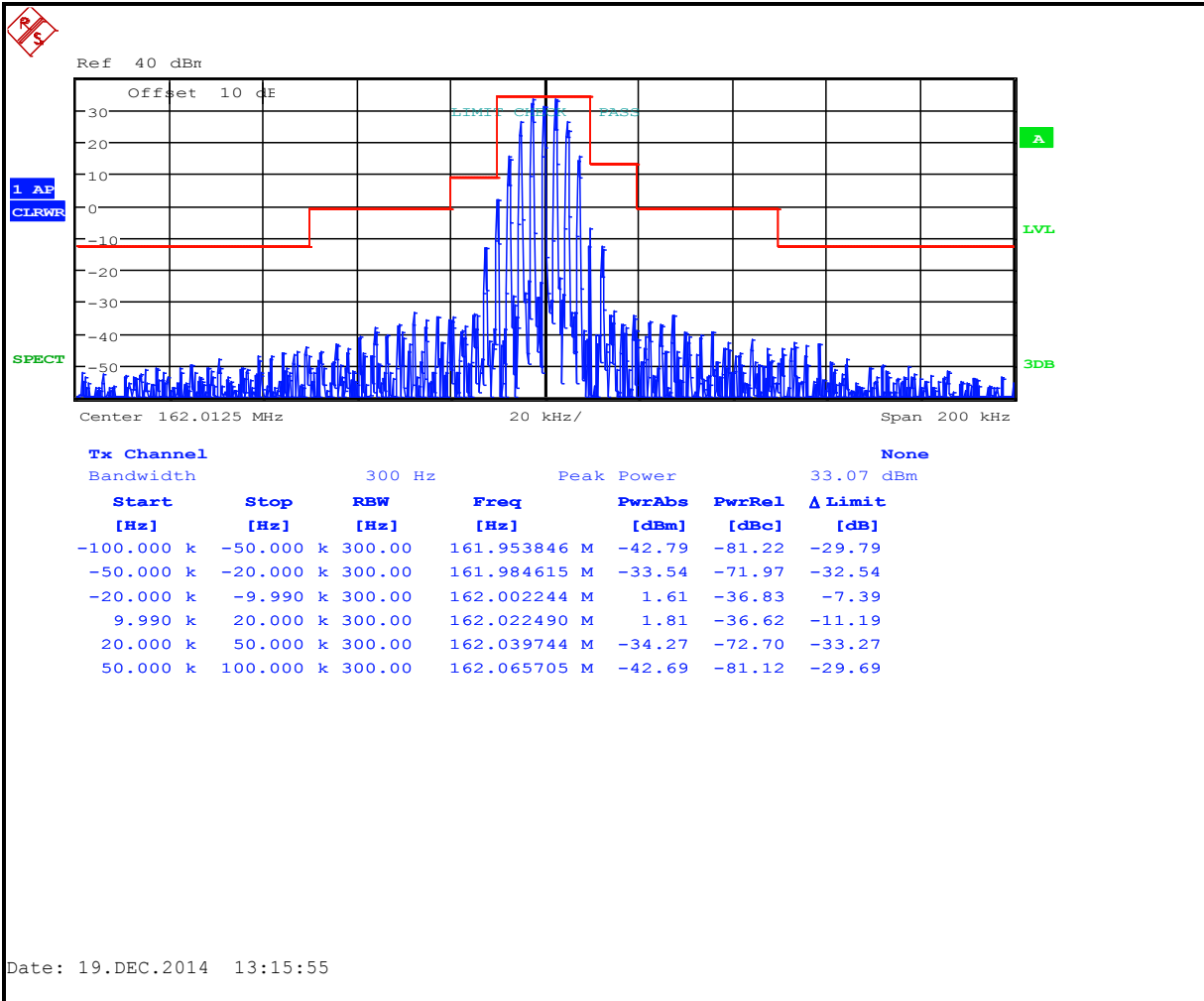
Plot 8-43: Occupied Bandwidth – 150.0125 MHz; Wideband Analog (Mask B)



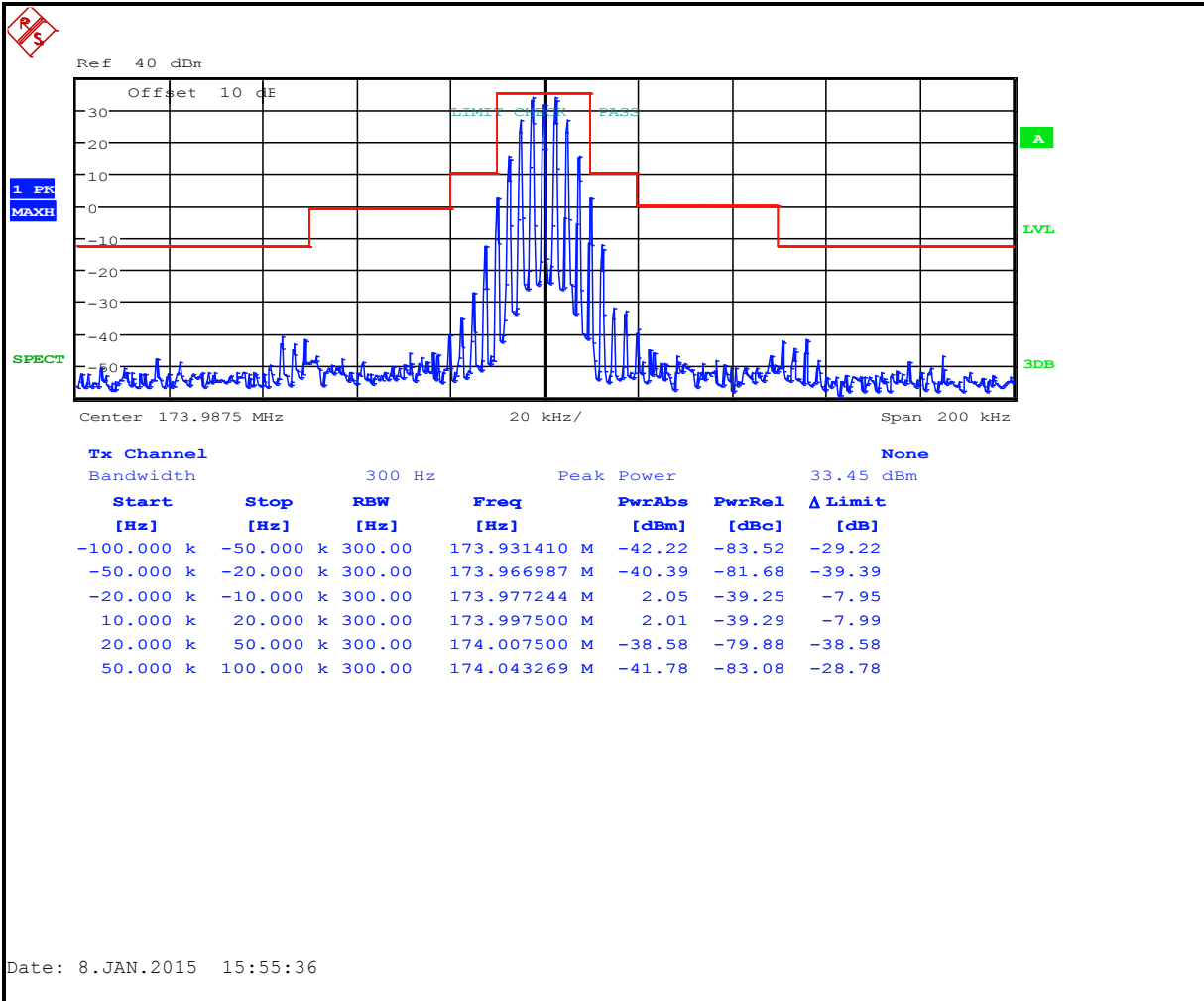
Plot 8-44: Occupied Bandwidth – 156.8000 MHz; Wideband Analog (Mask B)



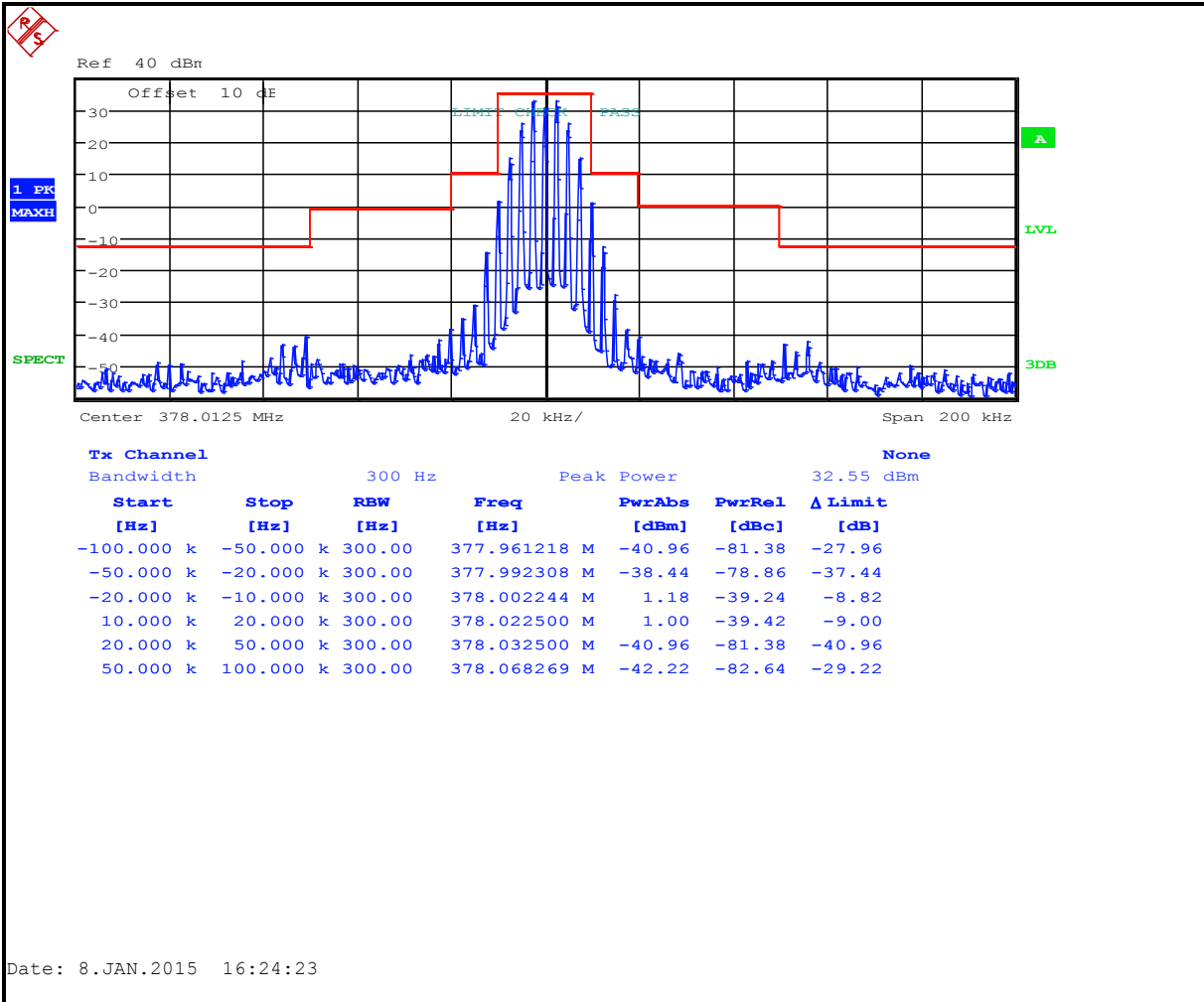
Plot 8-45: Occupied Bandwidth – 162.0125 MHz; Wideband Analog (Mask B)



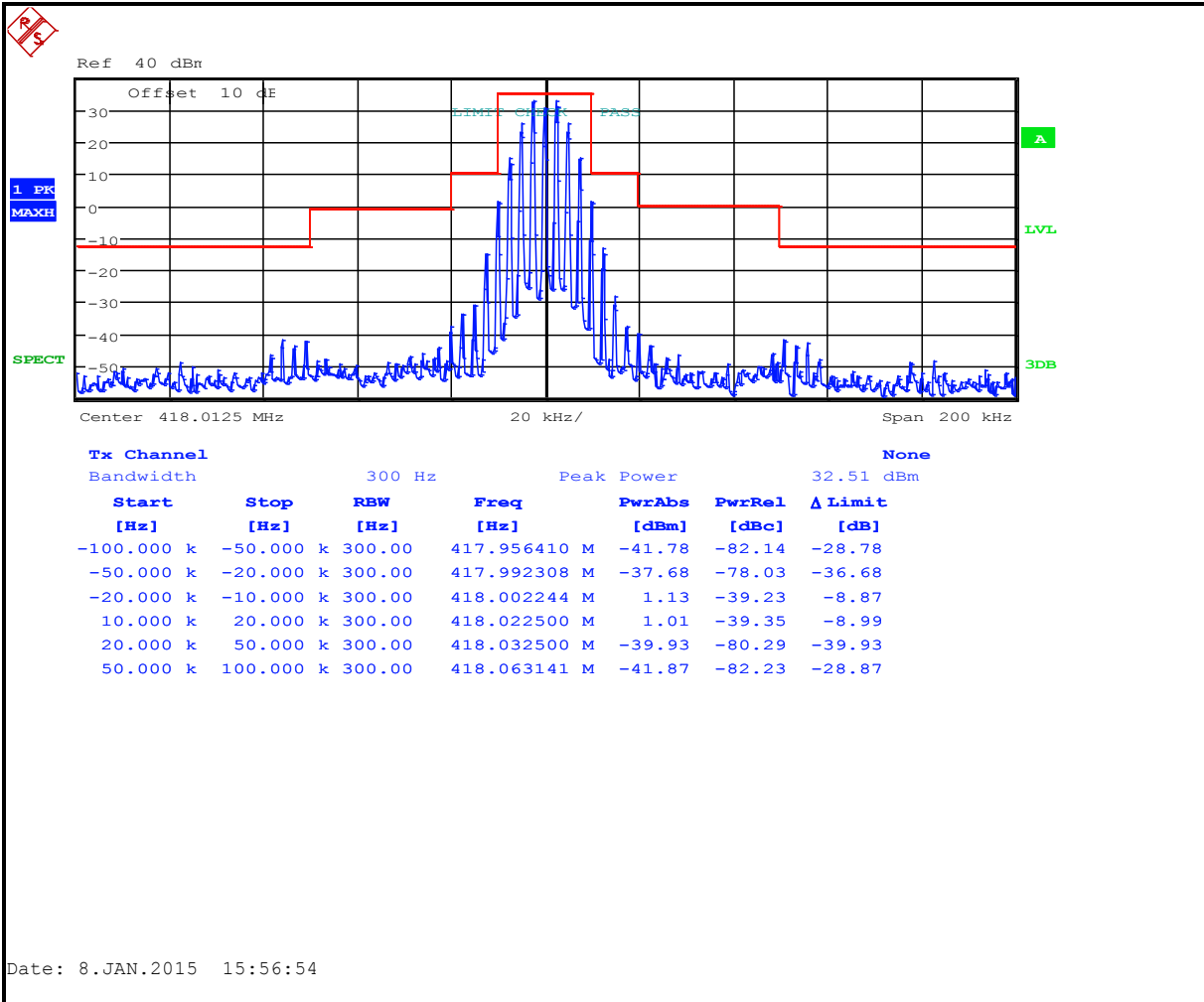
Plot 8-46: Occupied Bandwidth – 173.9875 MHz; Wideband Analog (Mask B)



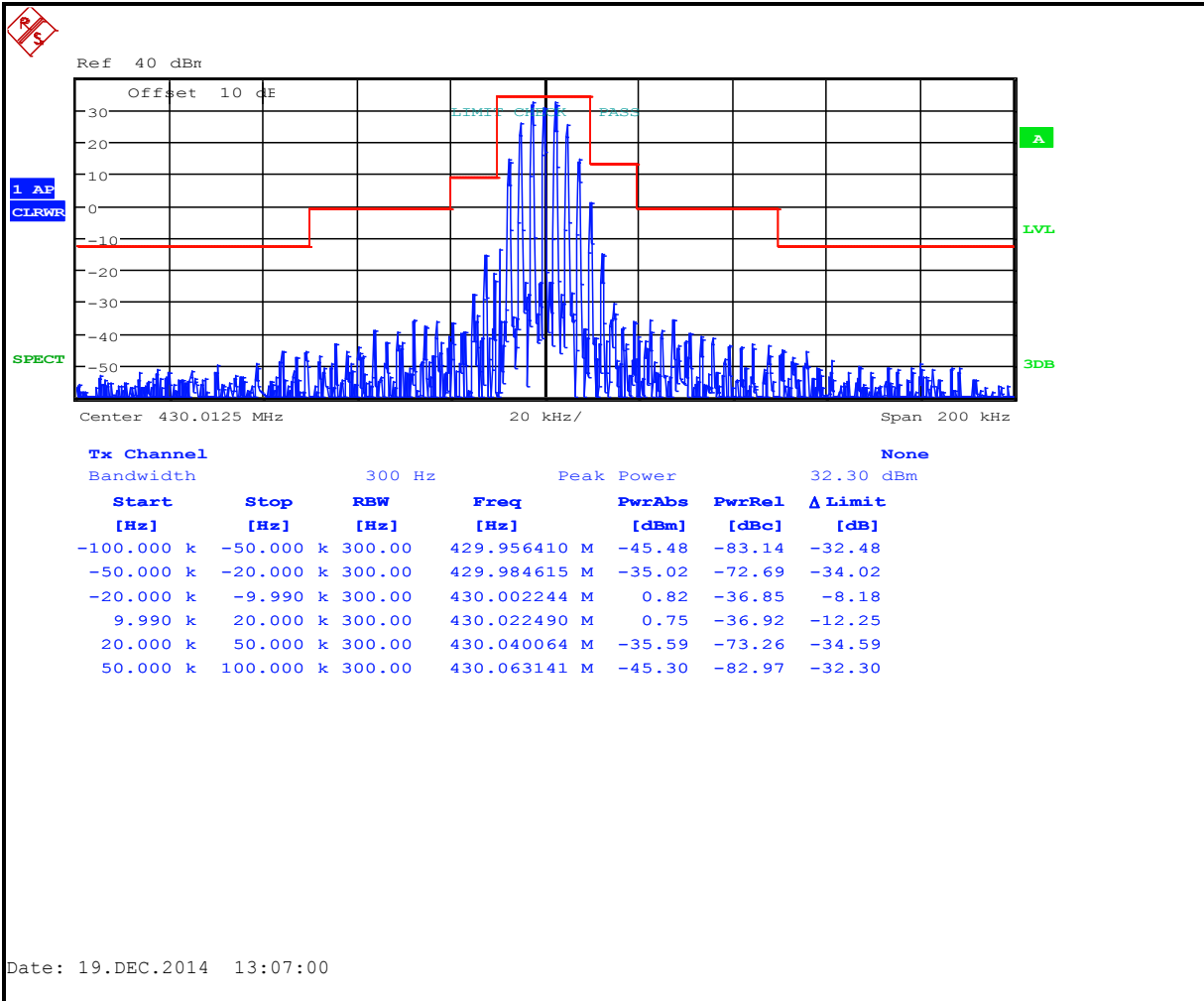
Plot 8-47: Occupied Bandwidth – 378.0125 MHz; Wideband Analog (Mask B)



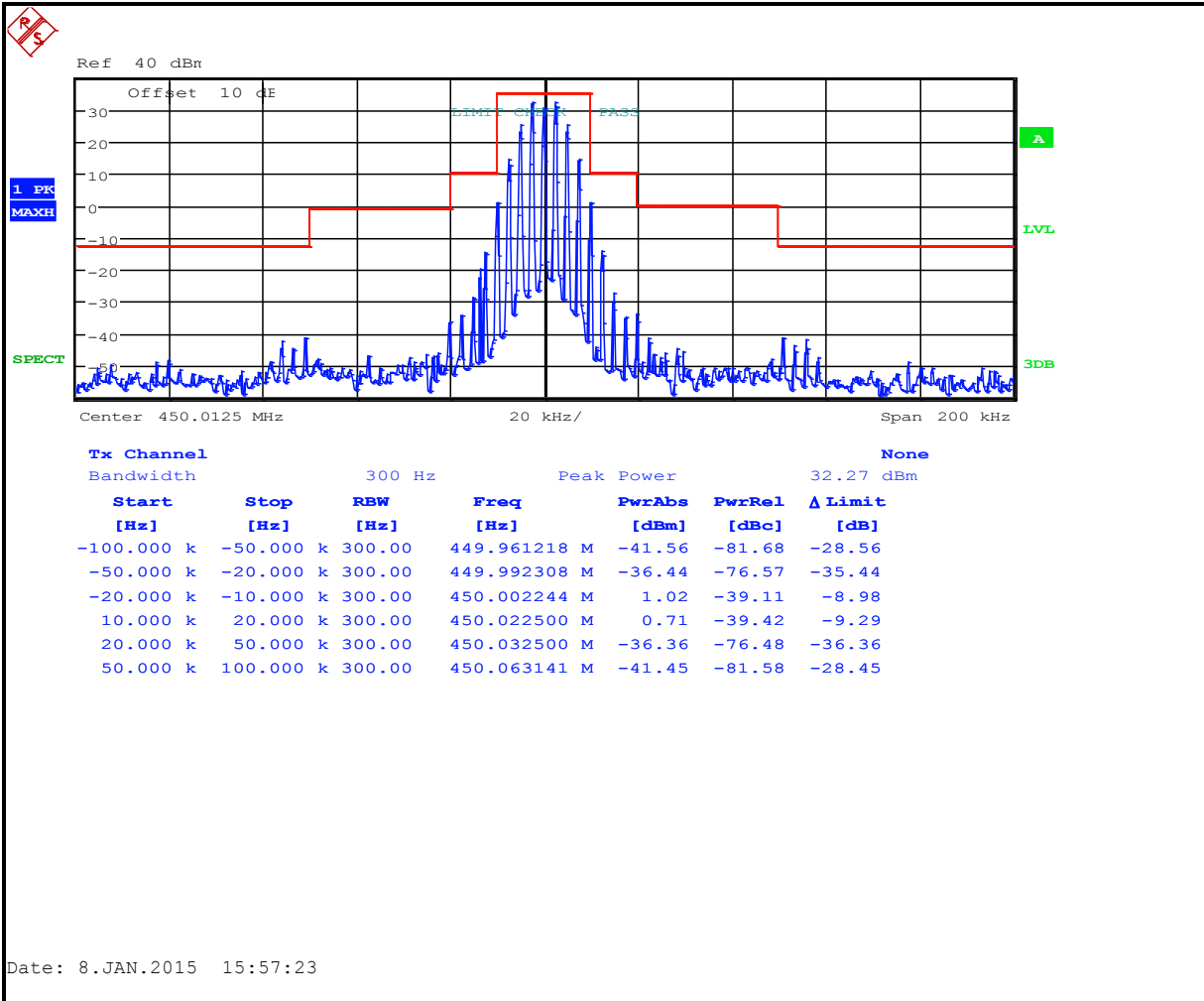
Plot 8-48: Occupied Bandwidth – 418.0125 MHz; Wideband Analog (Mask B)



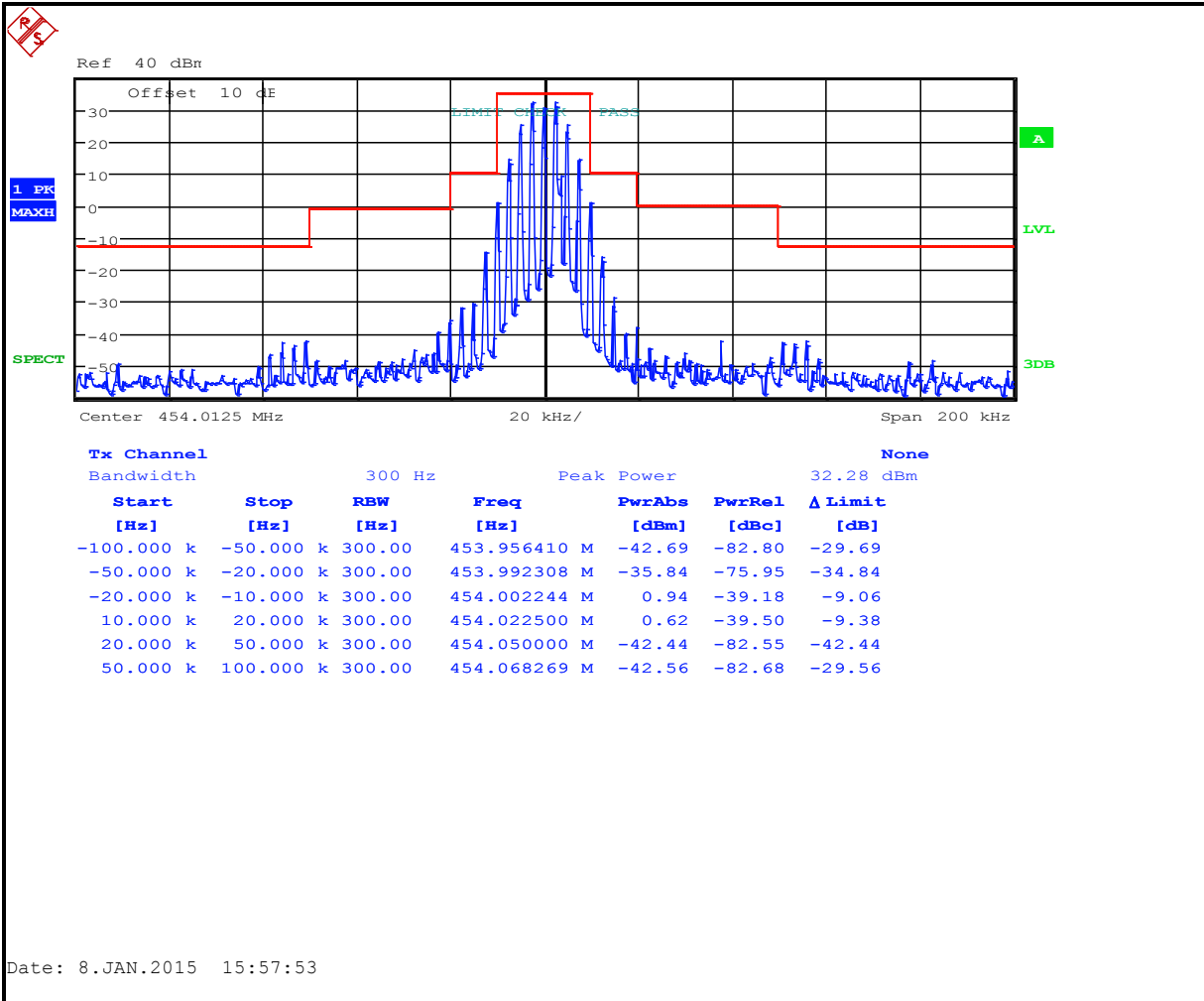
Plot 8-49: Occupied Bandwidth – 430.0125 MHz; Wideband Analog (Mask B)



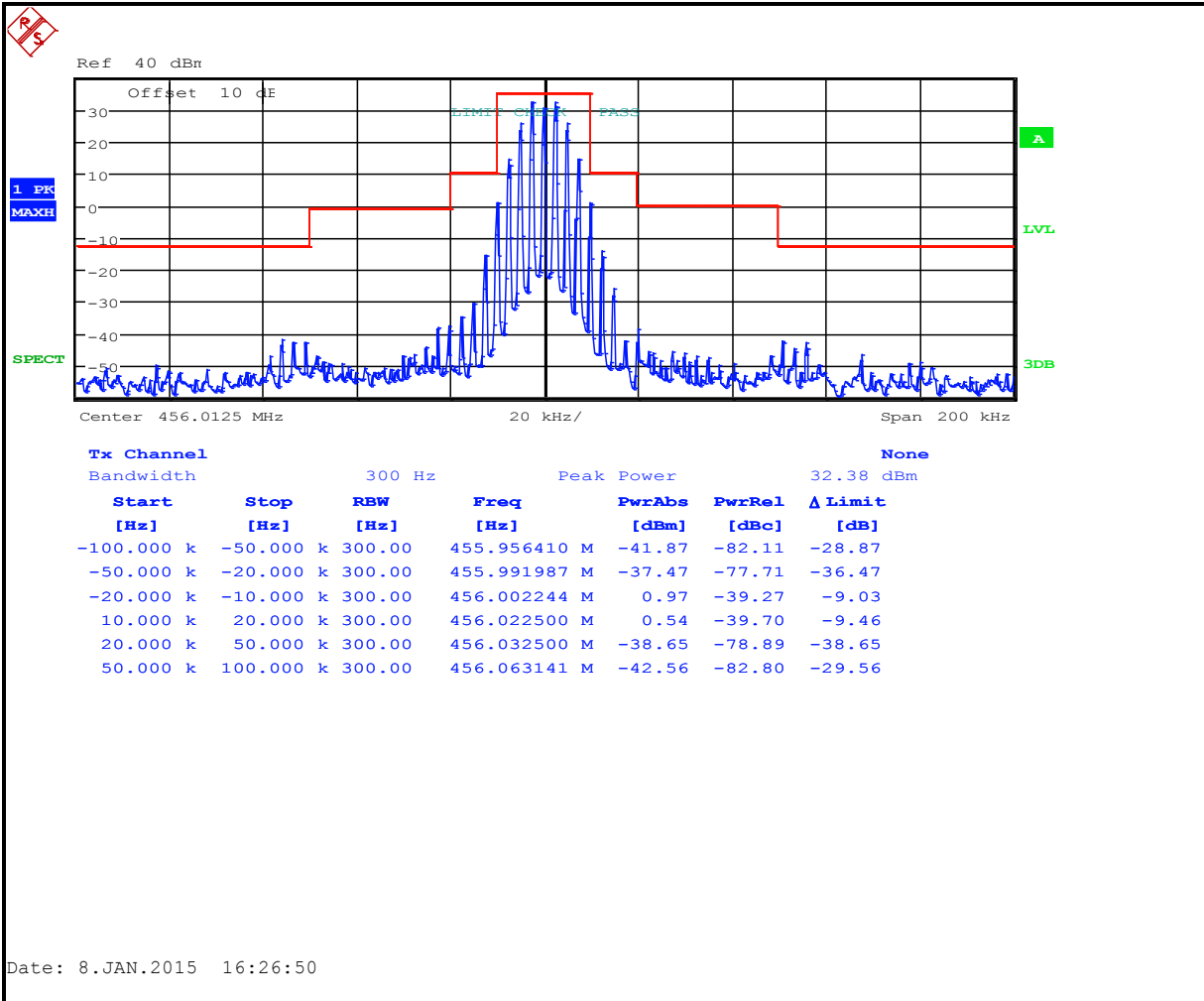
Plot 8-50: Occupied Bandwidth – 450.0125 MHz; Wideband Analog (Mask B)



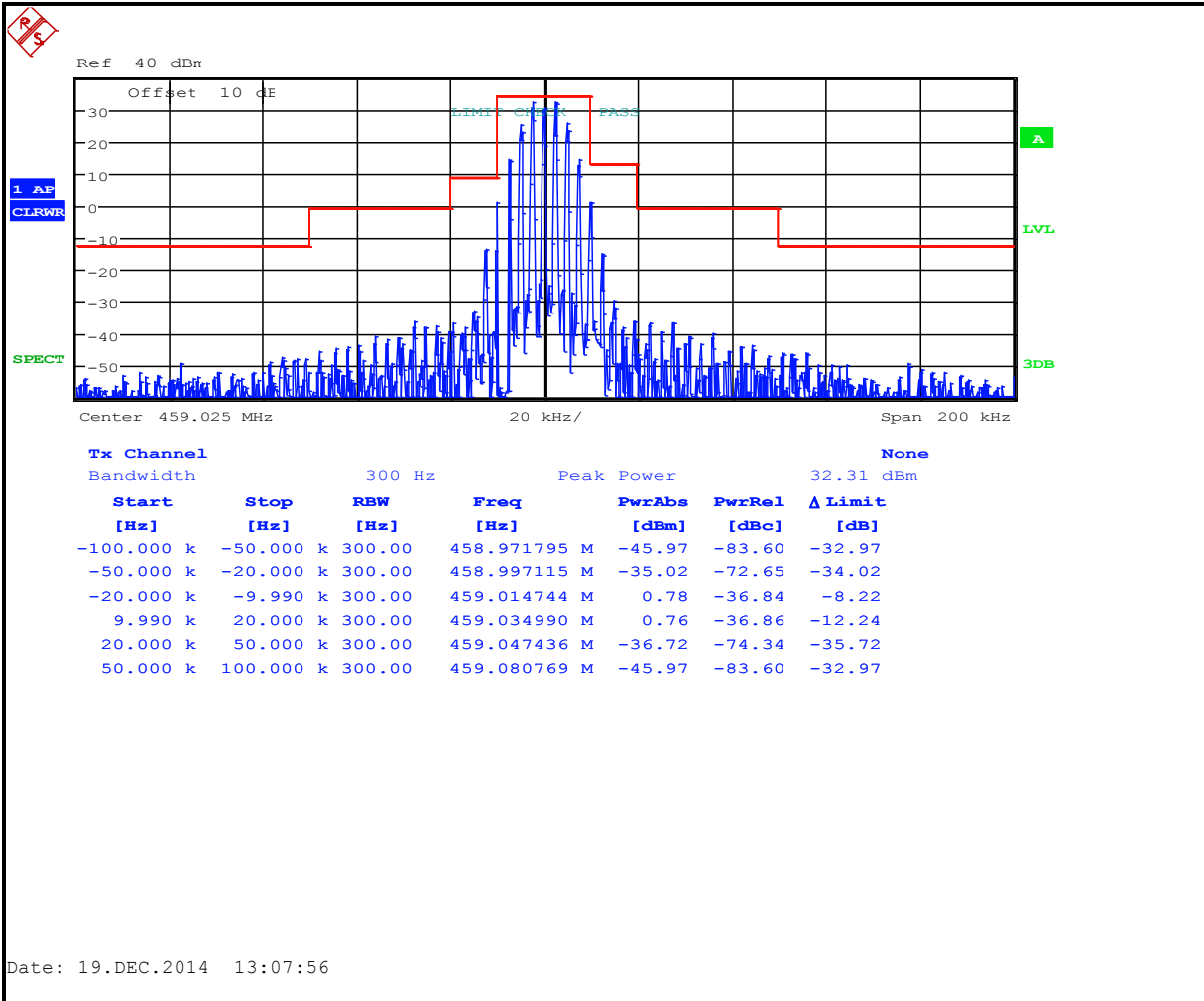
Plot 8-51: Occupied Bandwidth – 454.0125 MHz; Wideband Analog (Mask B)



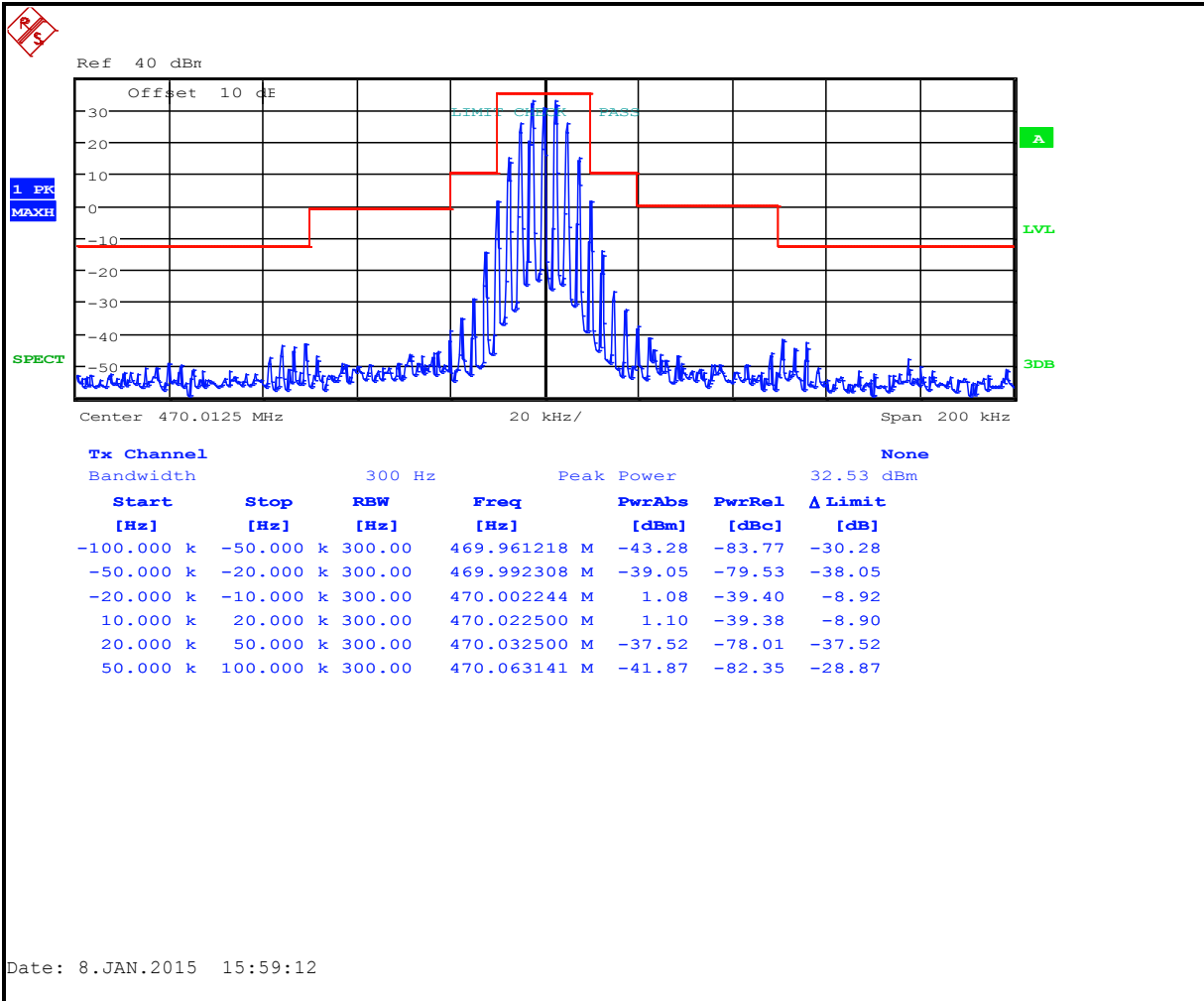
Plot 8-52: Occupied Bandwidth – 456.0125 MHz; Wideband Analog (Mask B)



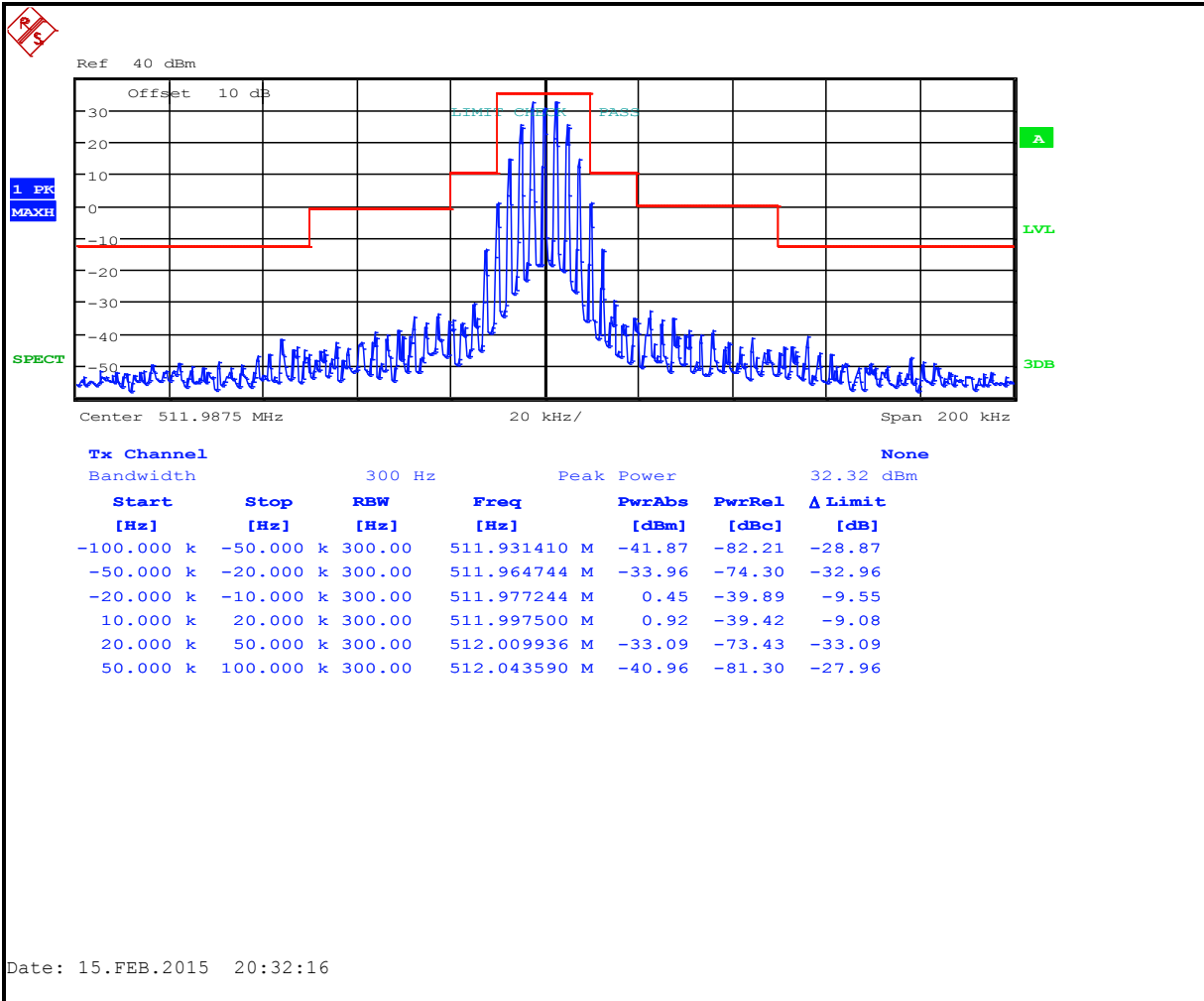
Plot 8-53: Occupied Bandwidth – 459.0250 MHz; Wideband Analog (Mask B)



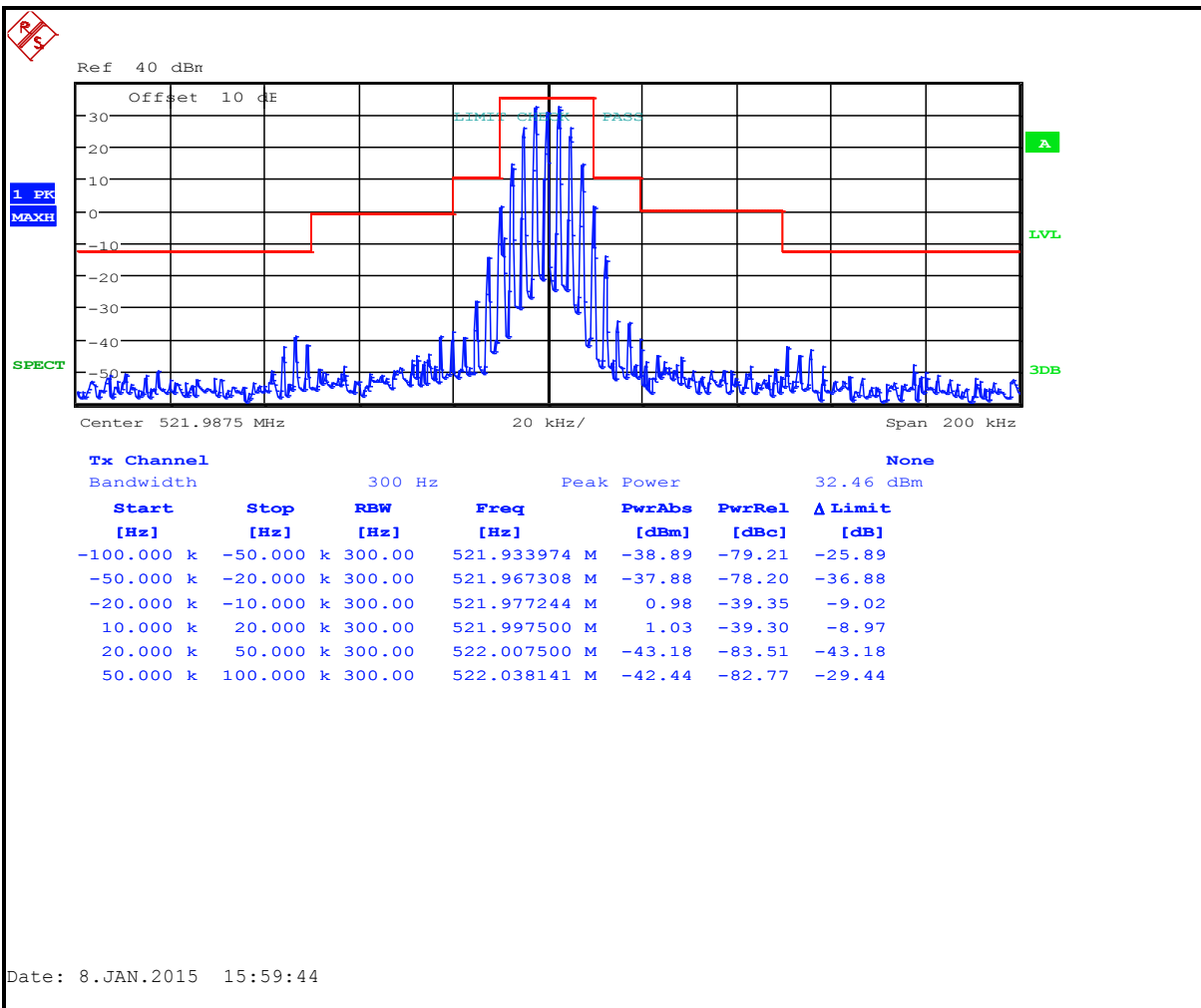
Plot 8-54: Occupied Bandwidth – 470.0125 MHz; Wideband Analog (Mask B)



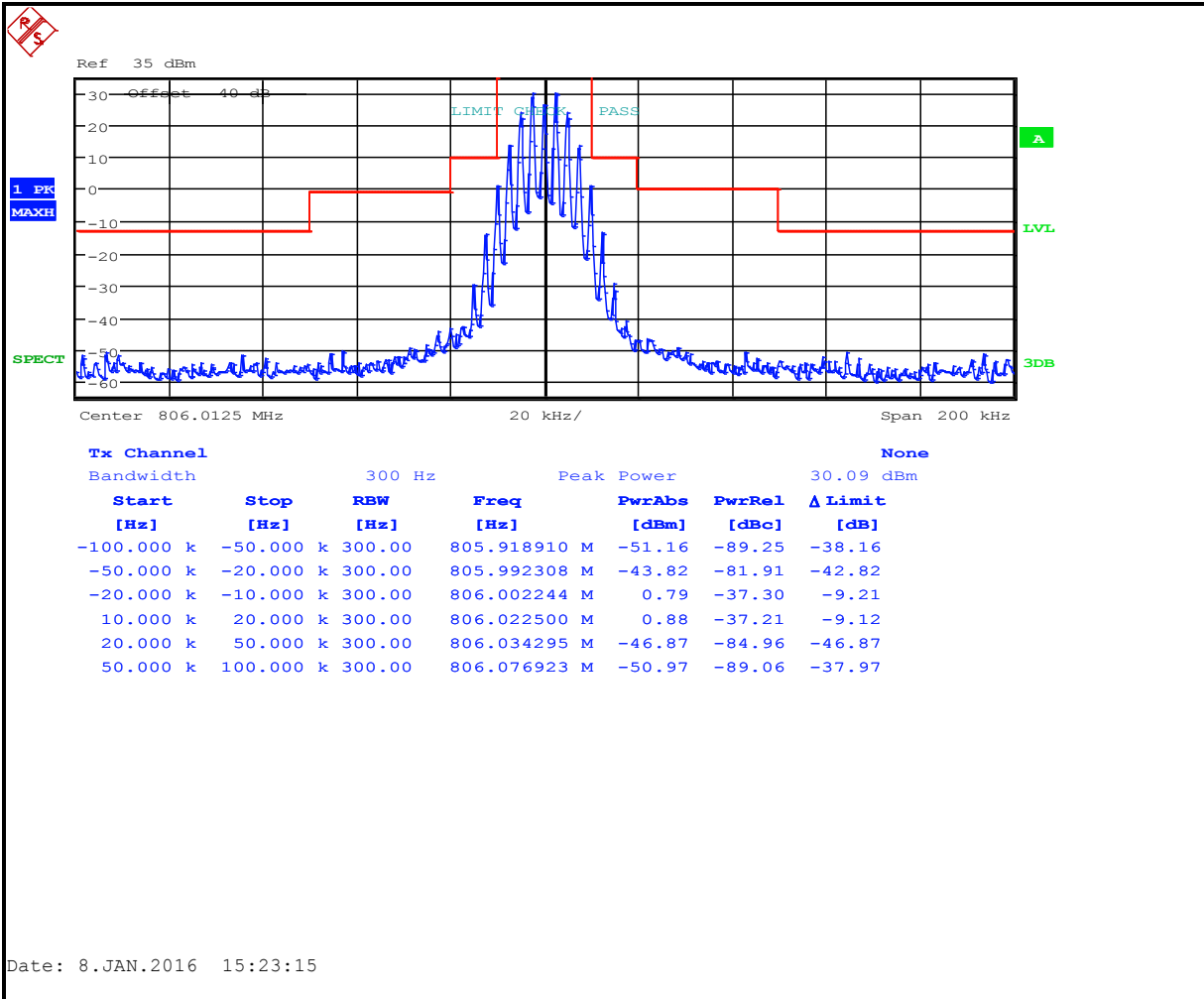
Plot 8-55: Occupied Bandwidth – 511.9875 MHz; Wideband Analog (Mask B)



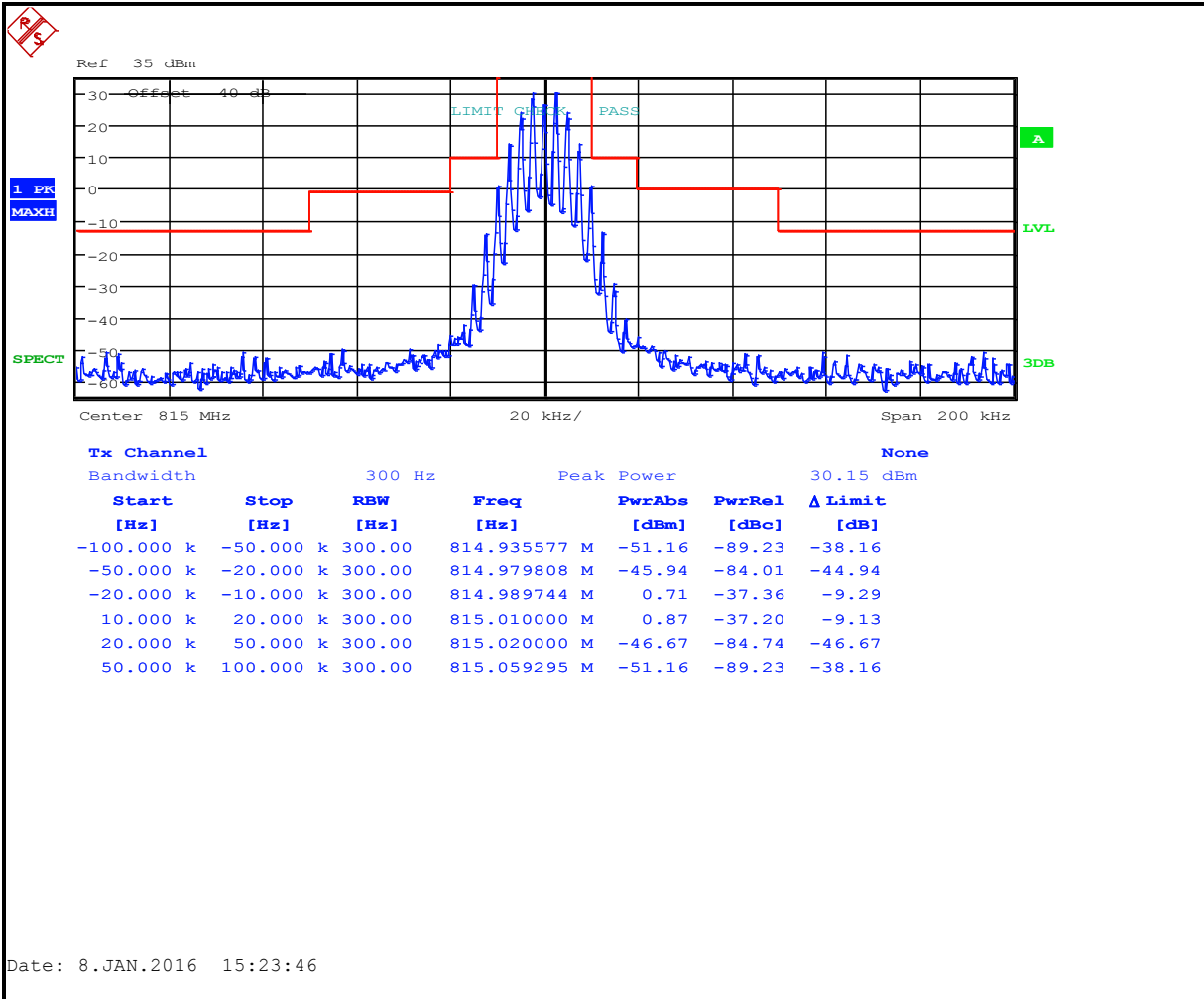
Plot 8-56: Occupied Bandwidth – 521.9875 MHz; Wideband Analog (Mask B)



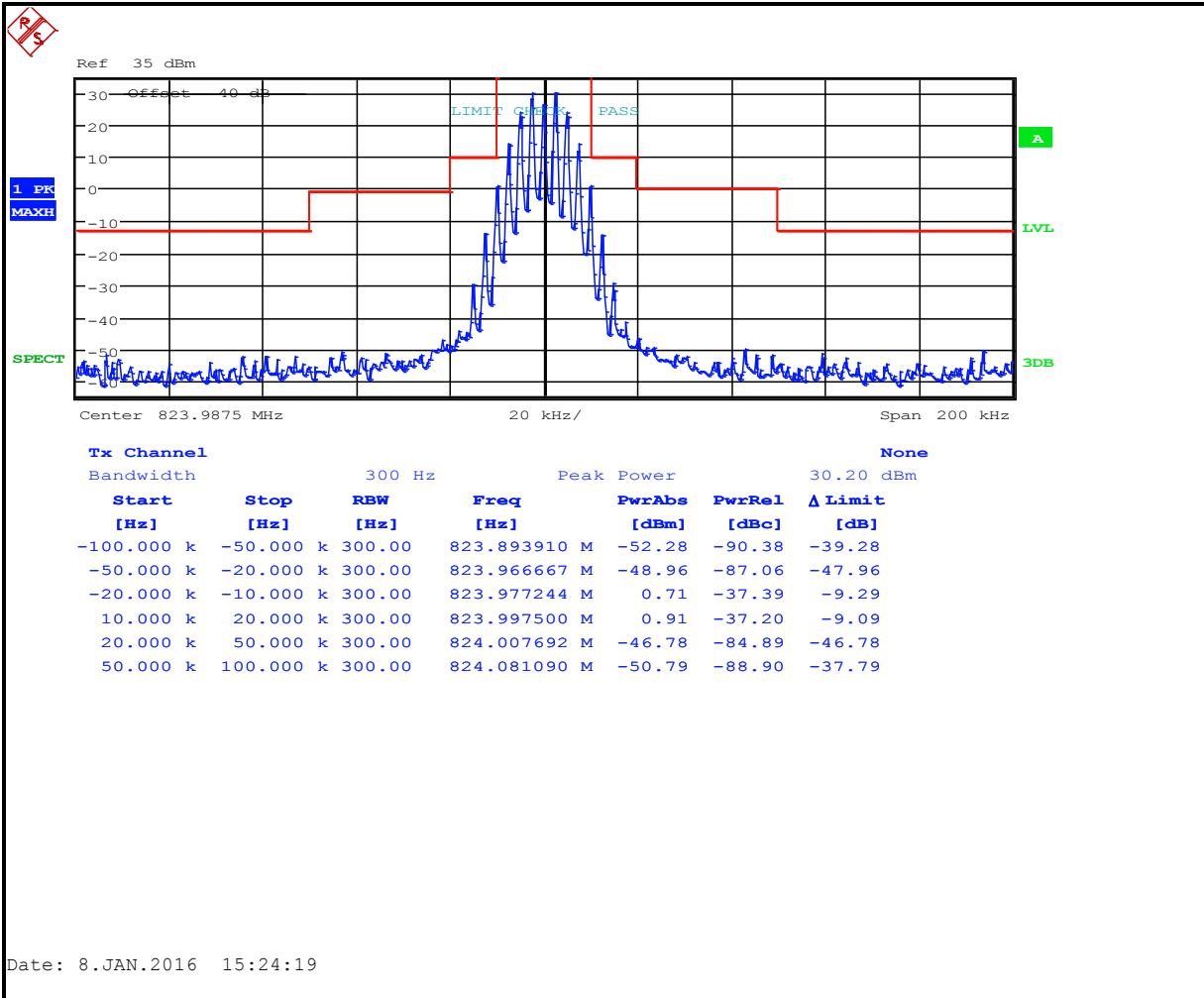
Plot 8-57: Occupied Bandwidth – 806.0125 MHz; Wideband Analog (Mask B)



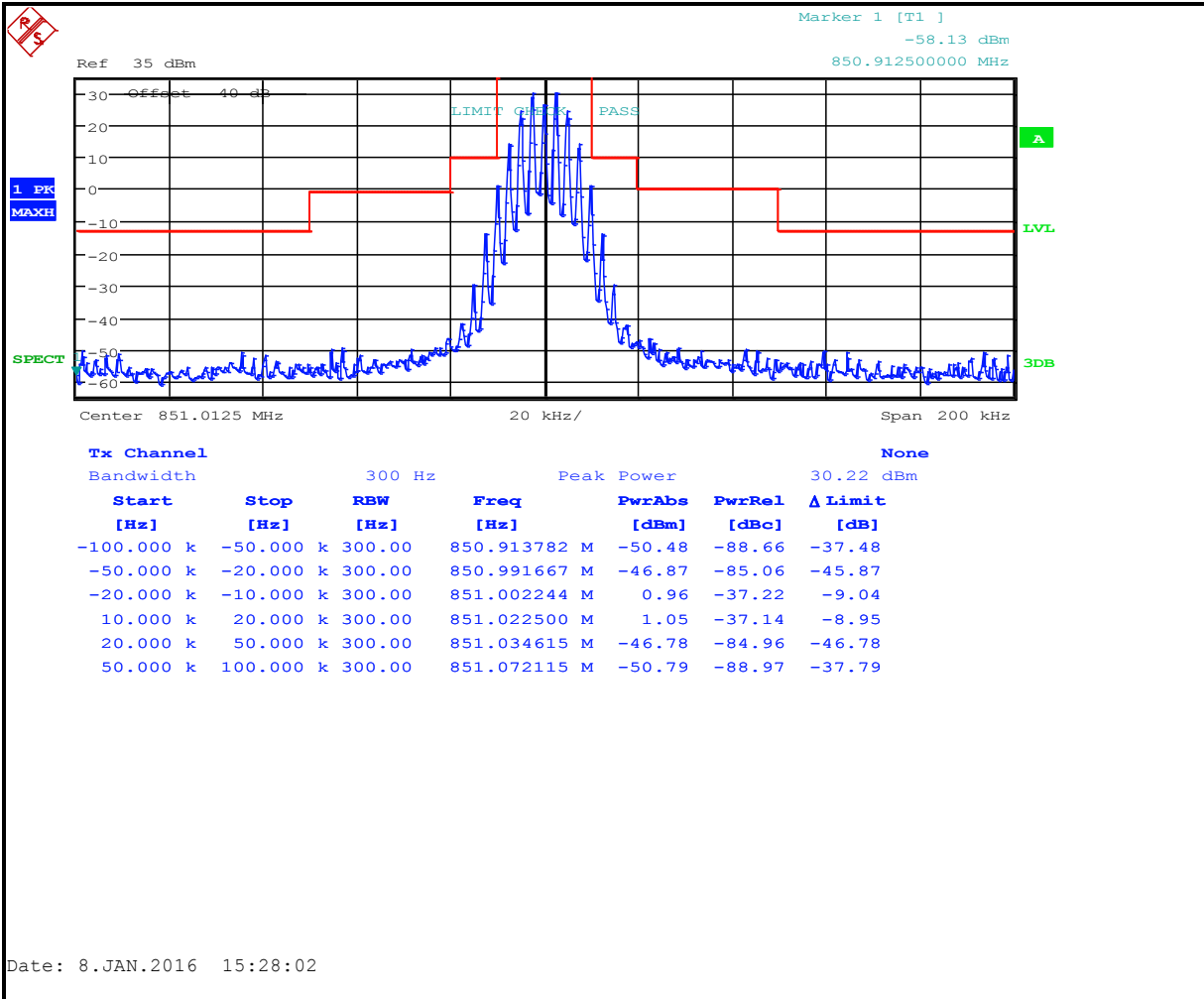
Plot 8-58: Occupied Bandwidth – 815.0000 MHz; Wideband Analog (Mask B)



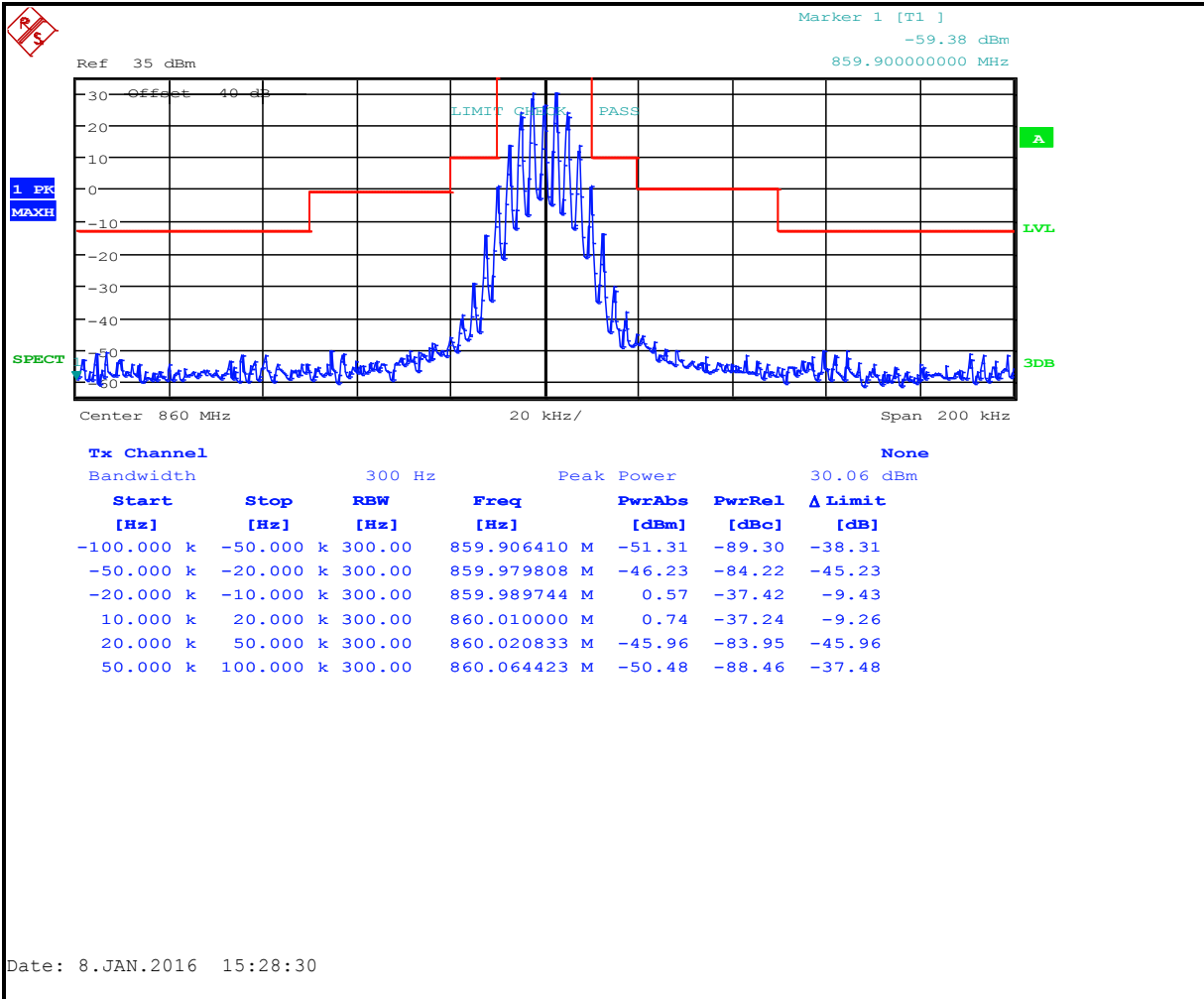
Plot 8-59: Occupied Bandwidth – 823.9875 MHz; Wideband Analog (Mask B)



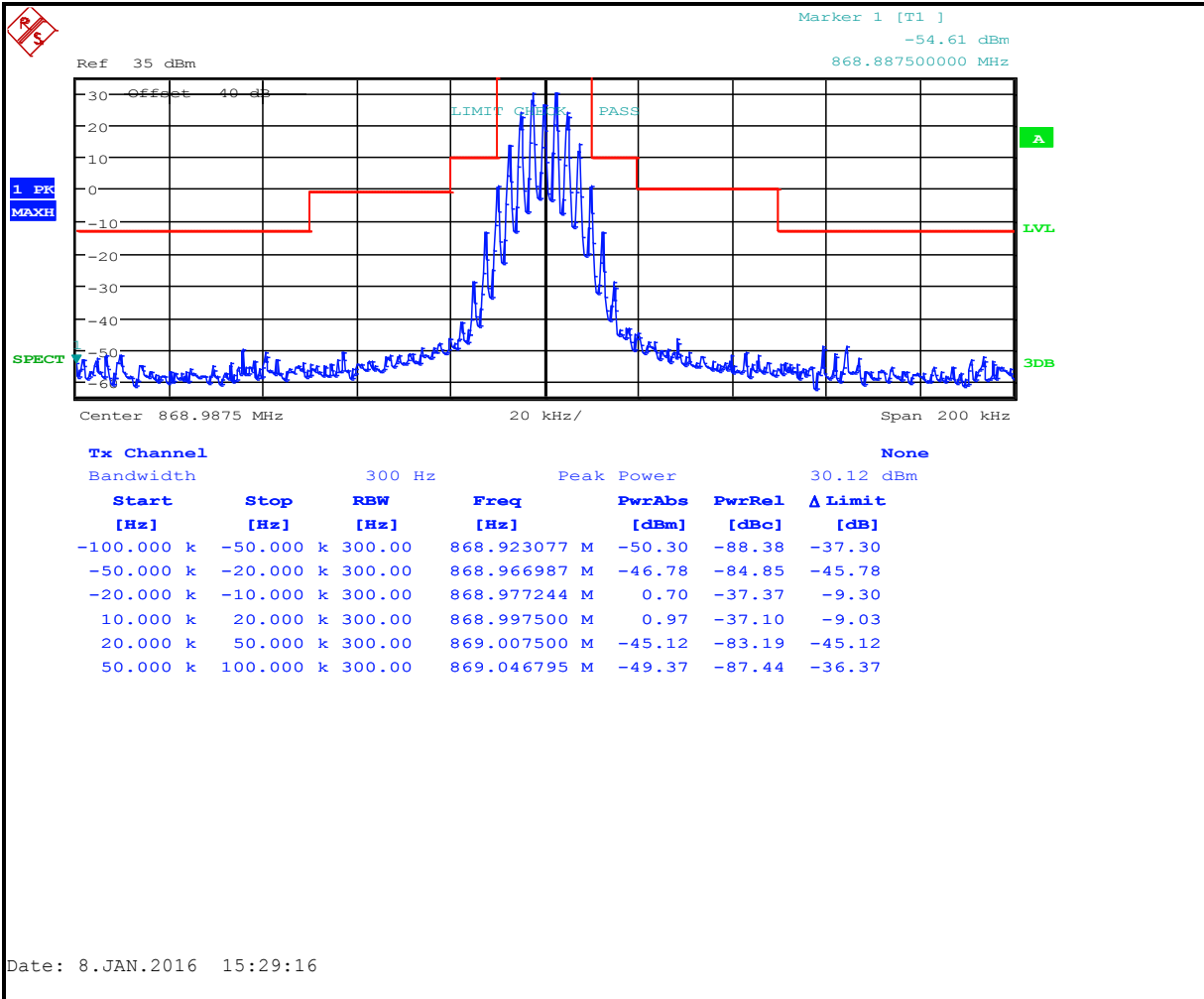
Plot 8-60: Occupied Bandwidth – 851.0125 MHz; Wideband Analog (Mask B)



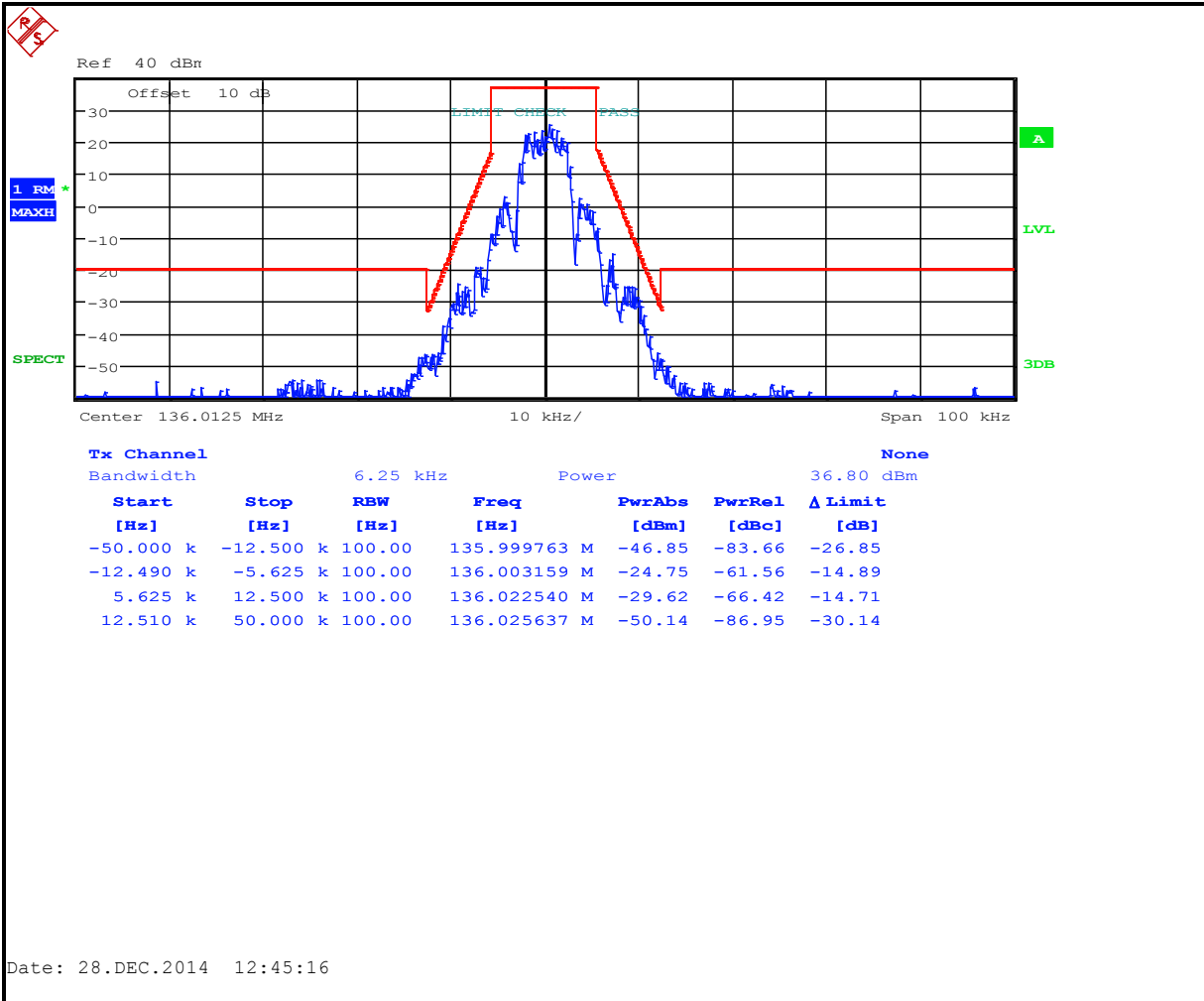
Plot 8-61: Occupied Bandwidth – 860.0000 MHz; Wideband Analog (Mask B)



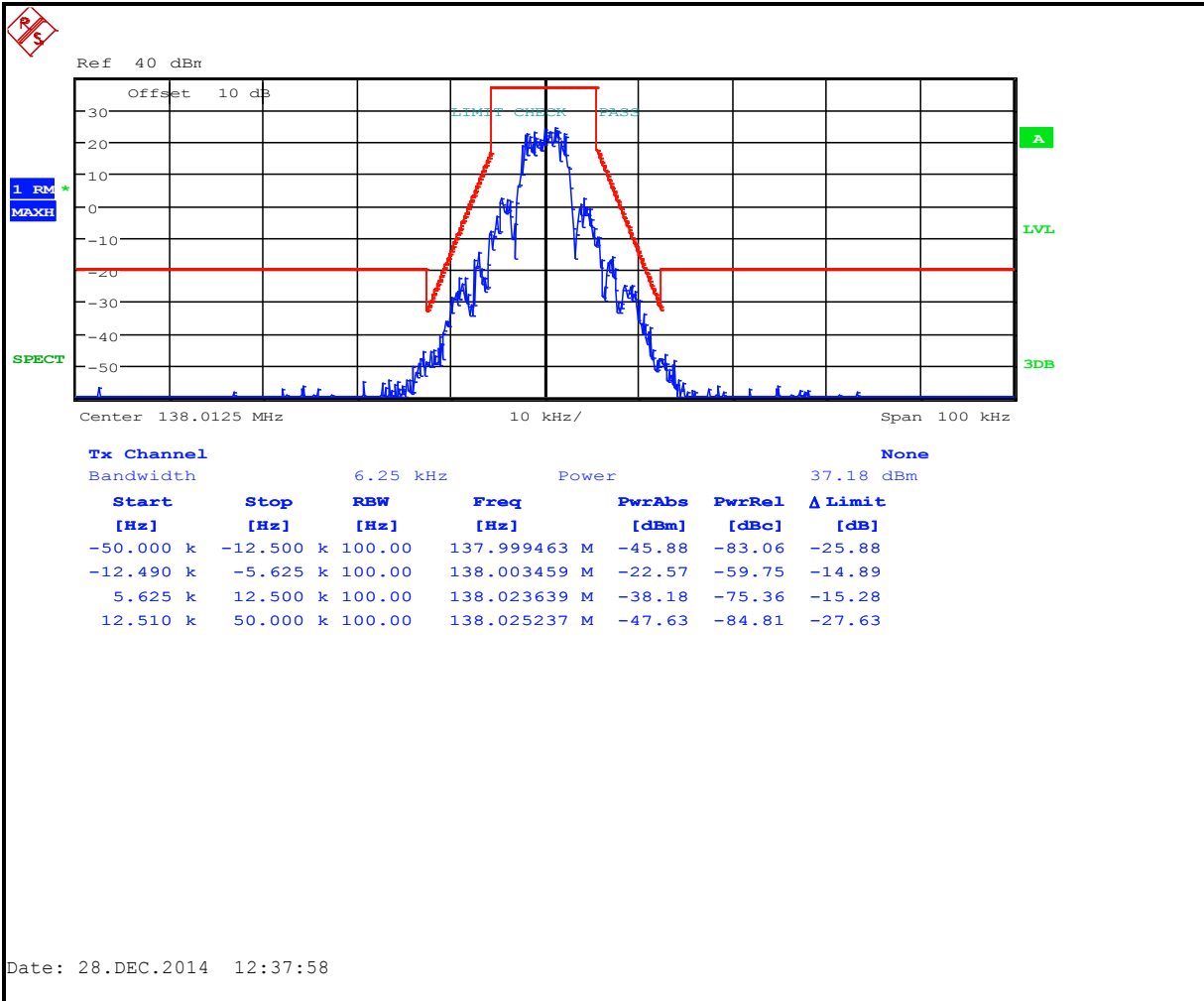
Plot 8-62: Occupied Bandwidth – 868.9875 MHz; Wideband Analog (Mask B)



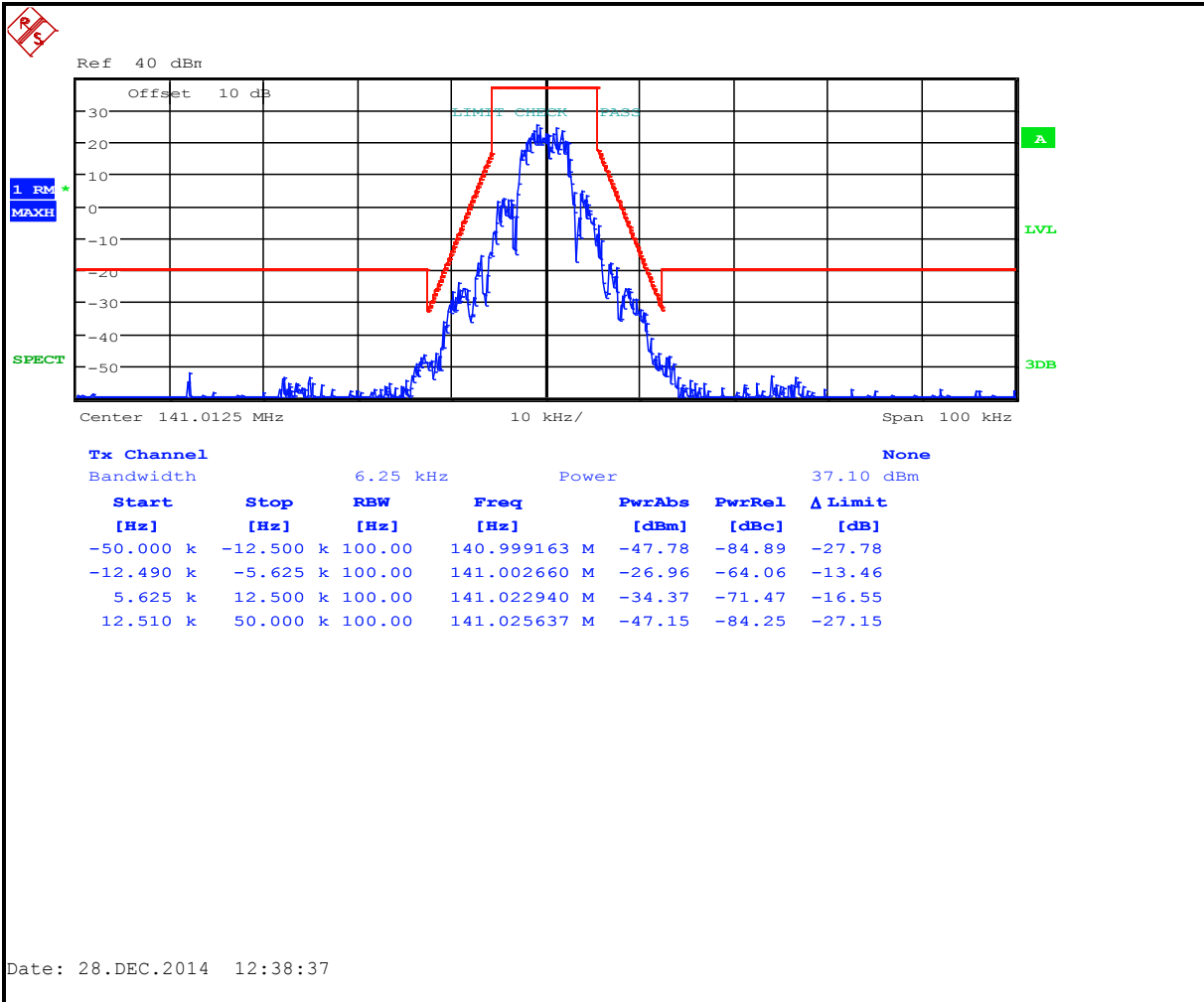
Plot 8-63: Occupied Bandwidth – 136.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



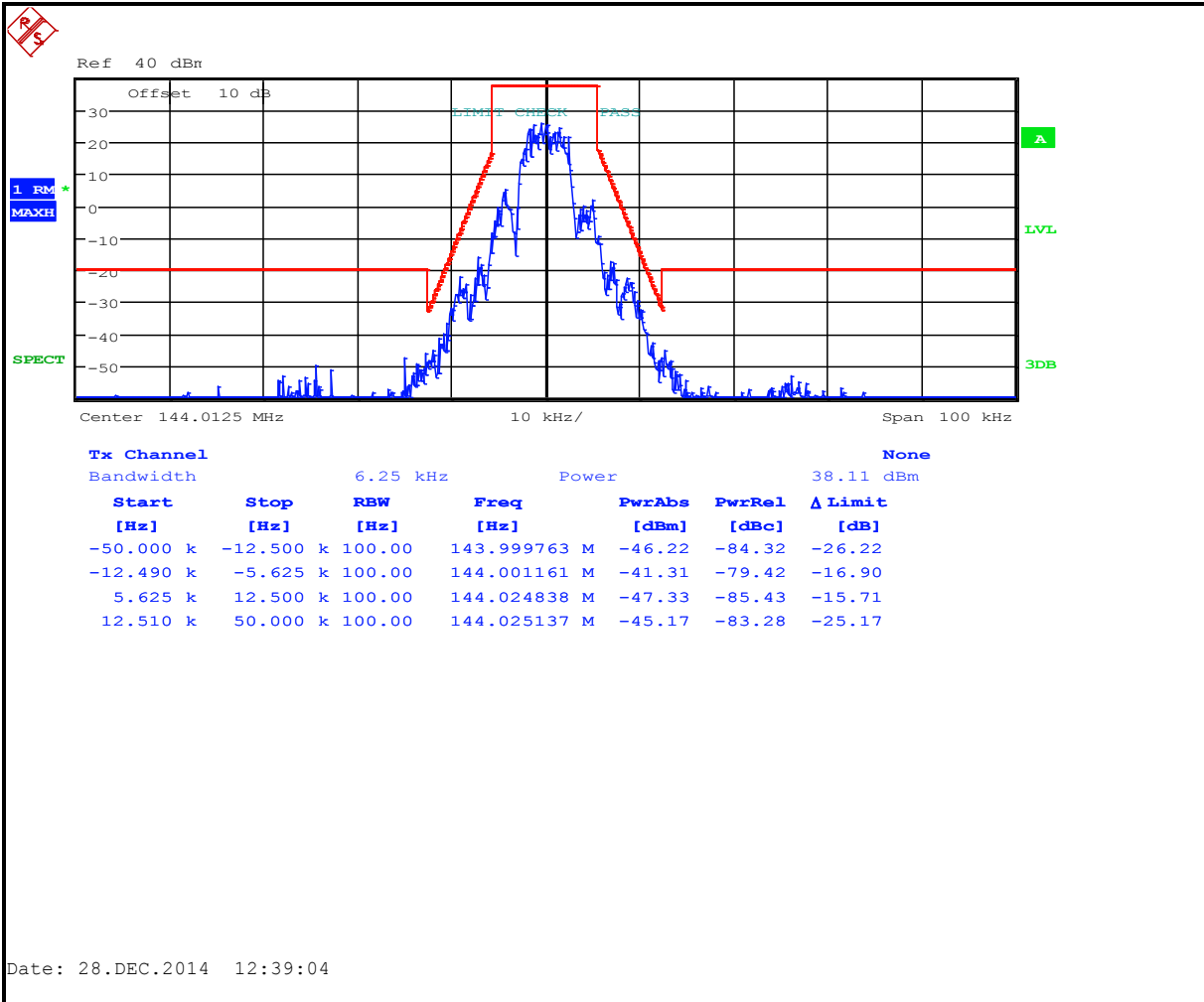
Plot 8-64: Occupied Bandwidth – 138.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



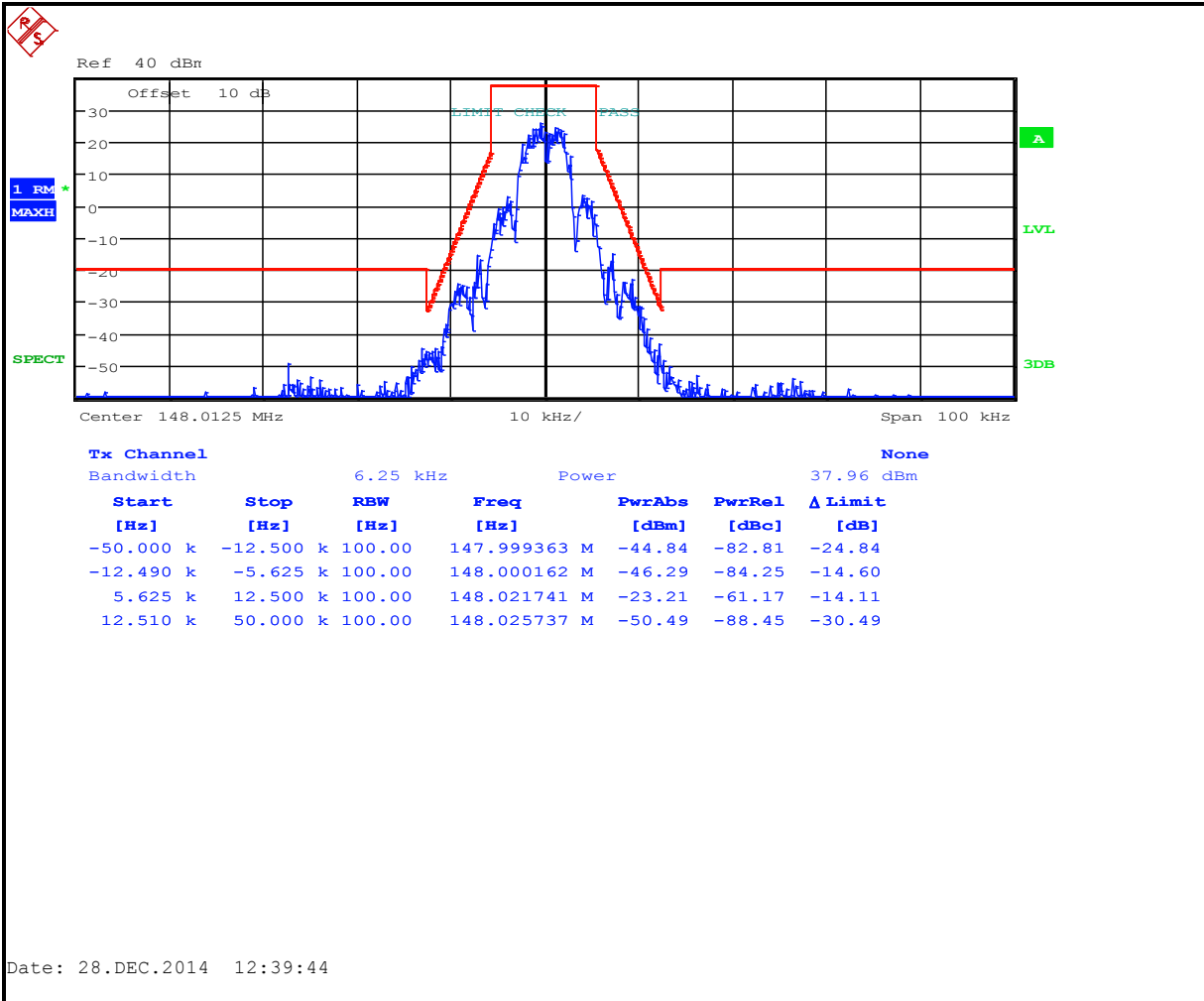
Plot 8-65: Occupied Bandwidth – 141.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



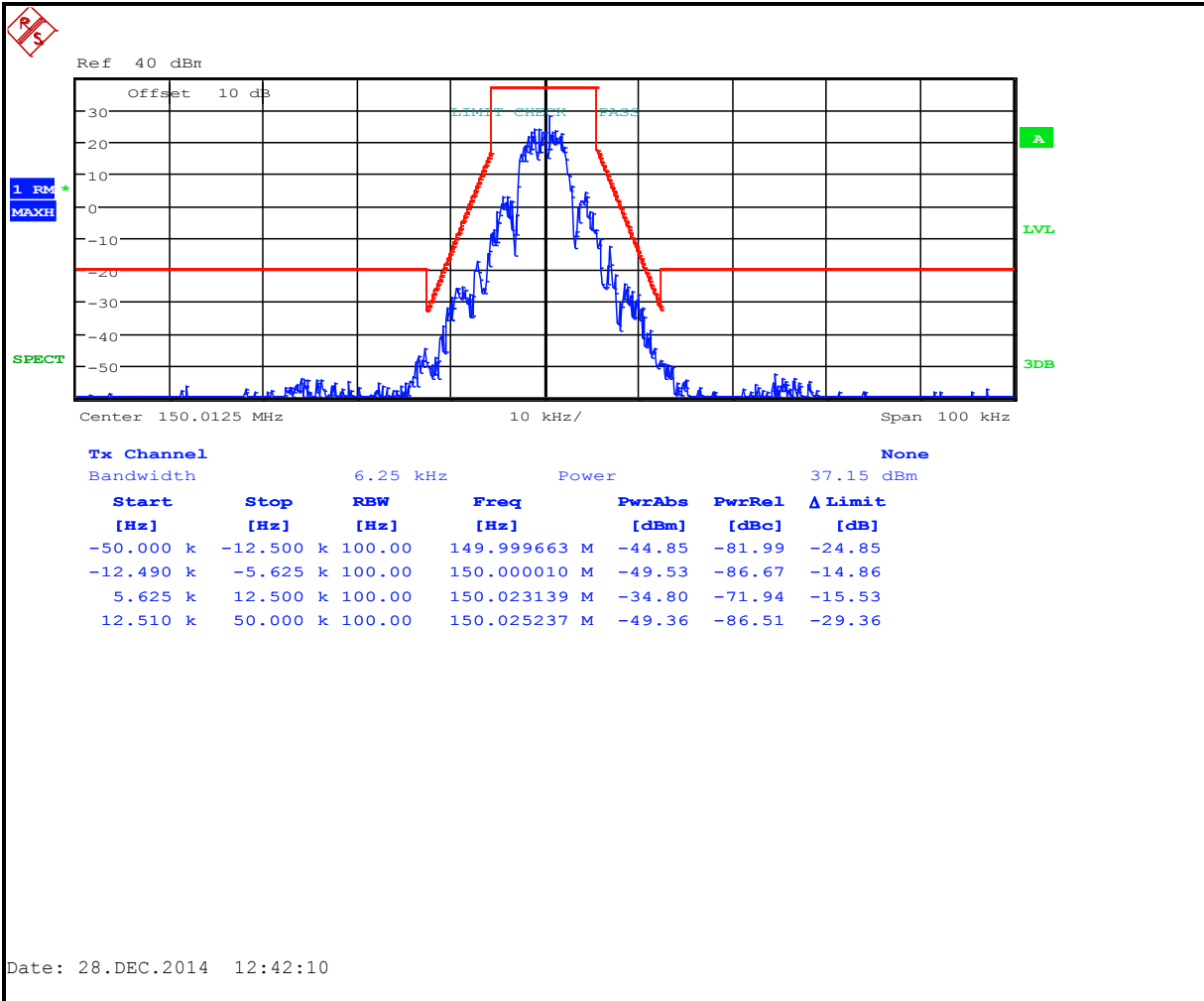
Plot 8-66: Occupied Bandwidth – 144.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



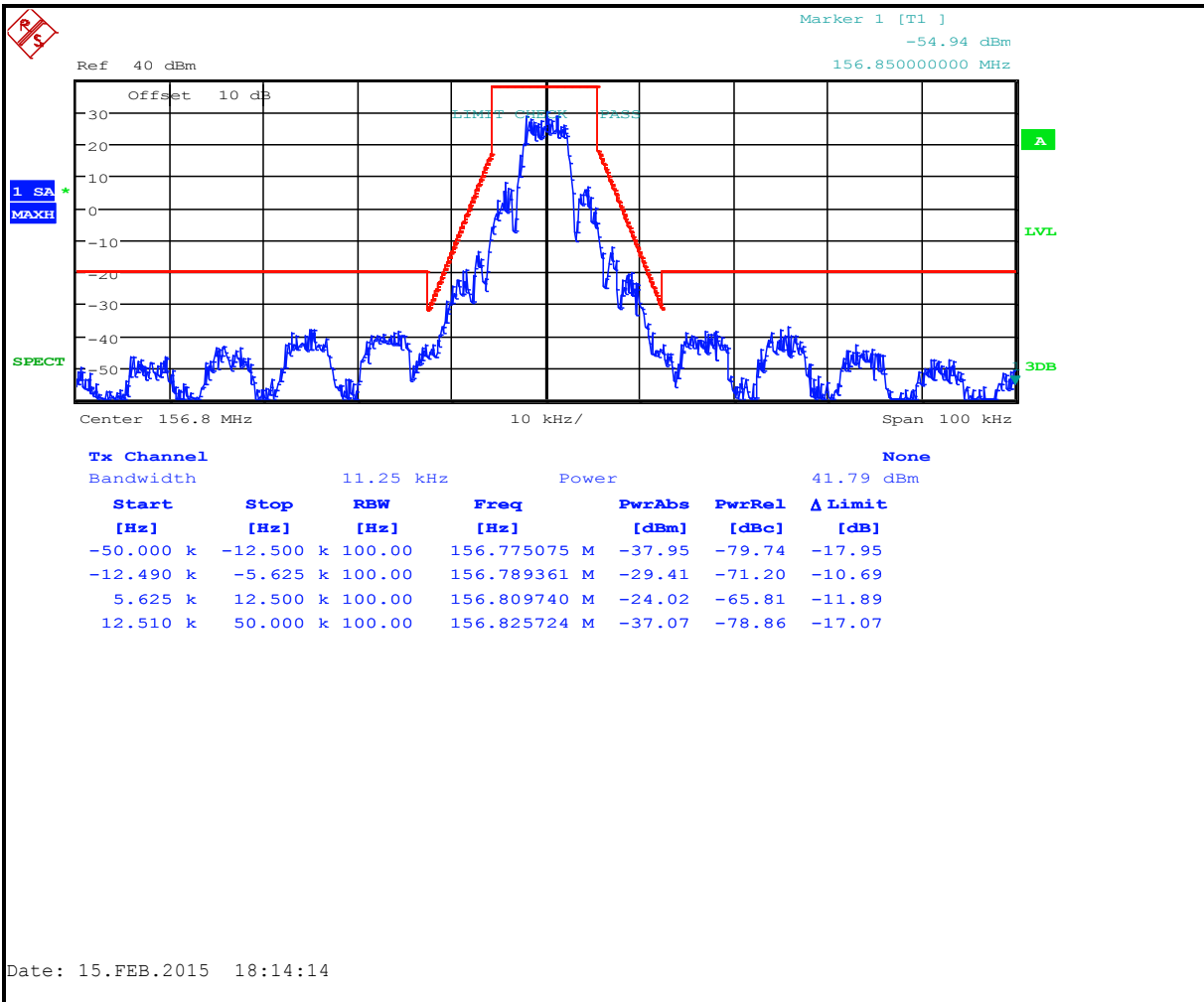
Plot 8-67: Occupied Bandwidth – 148.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



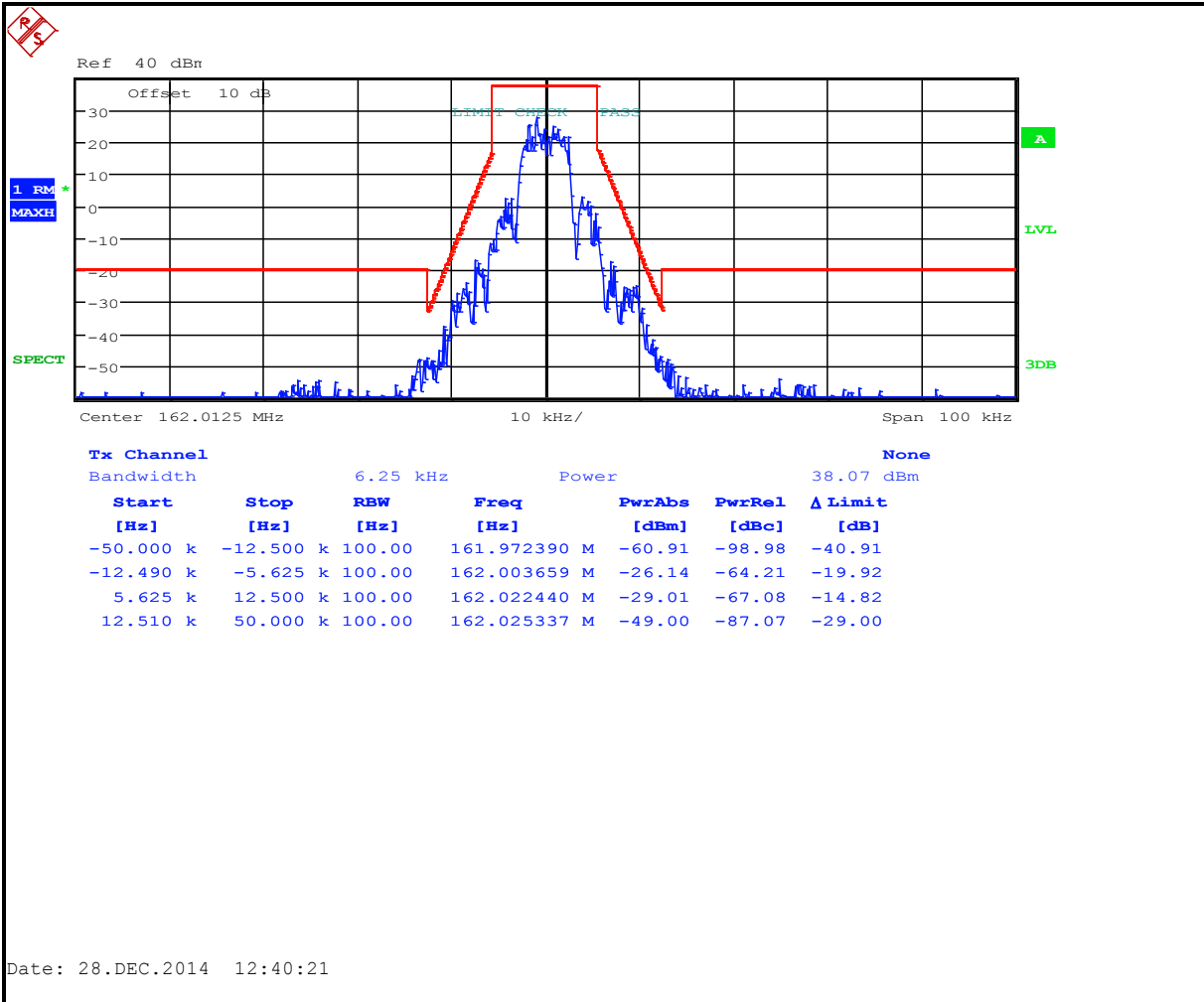
Plot 8-68: Occupied Bandwidth – 150.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



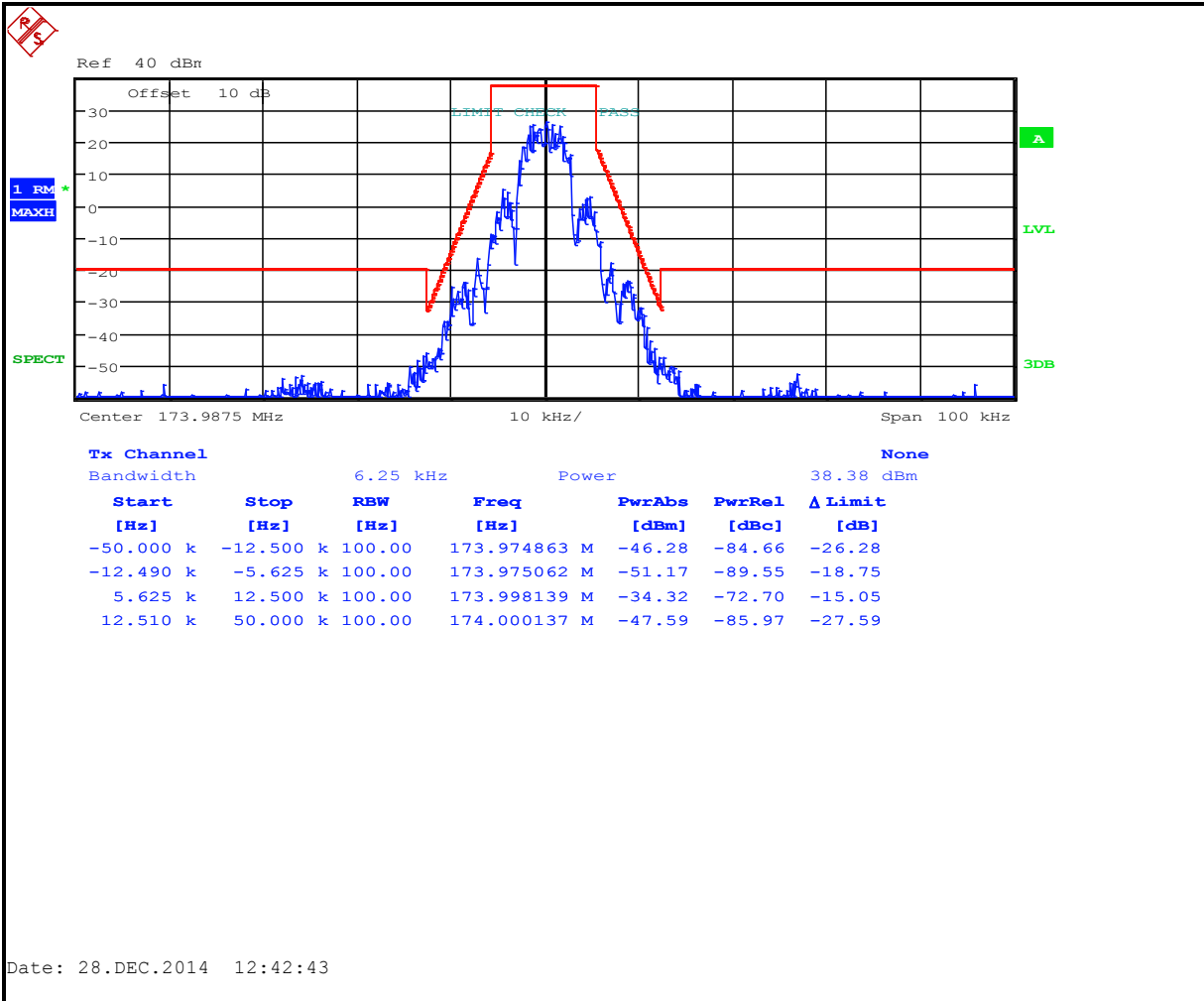
Plot 8-69: Occupied Bandwidth – 156.8000 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



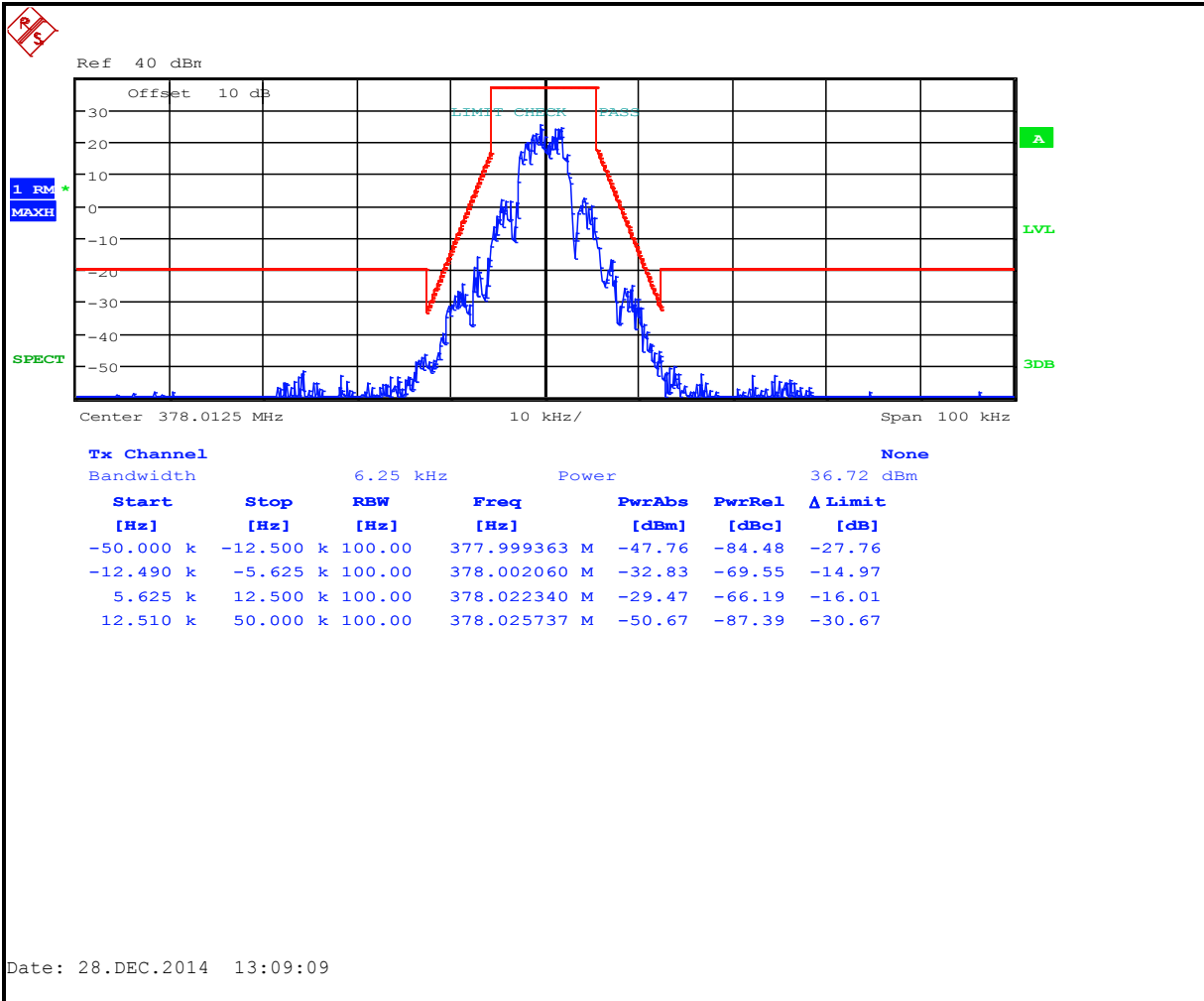
Plot 8-70: Occupied Bandwidth – 162.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



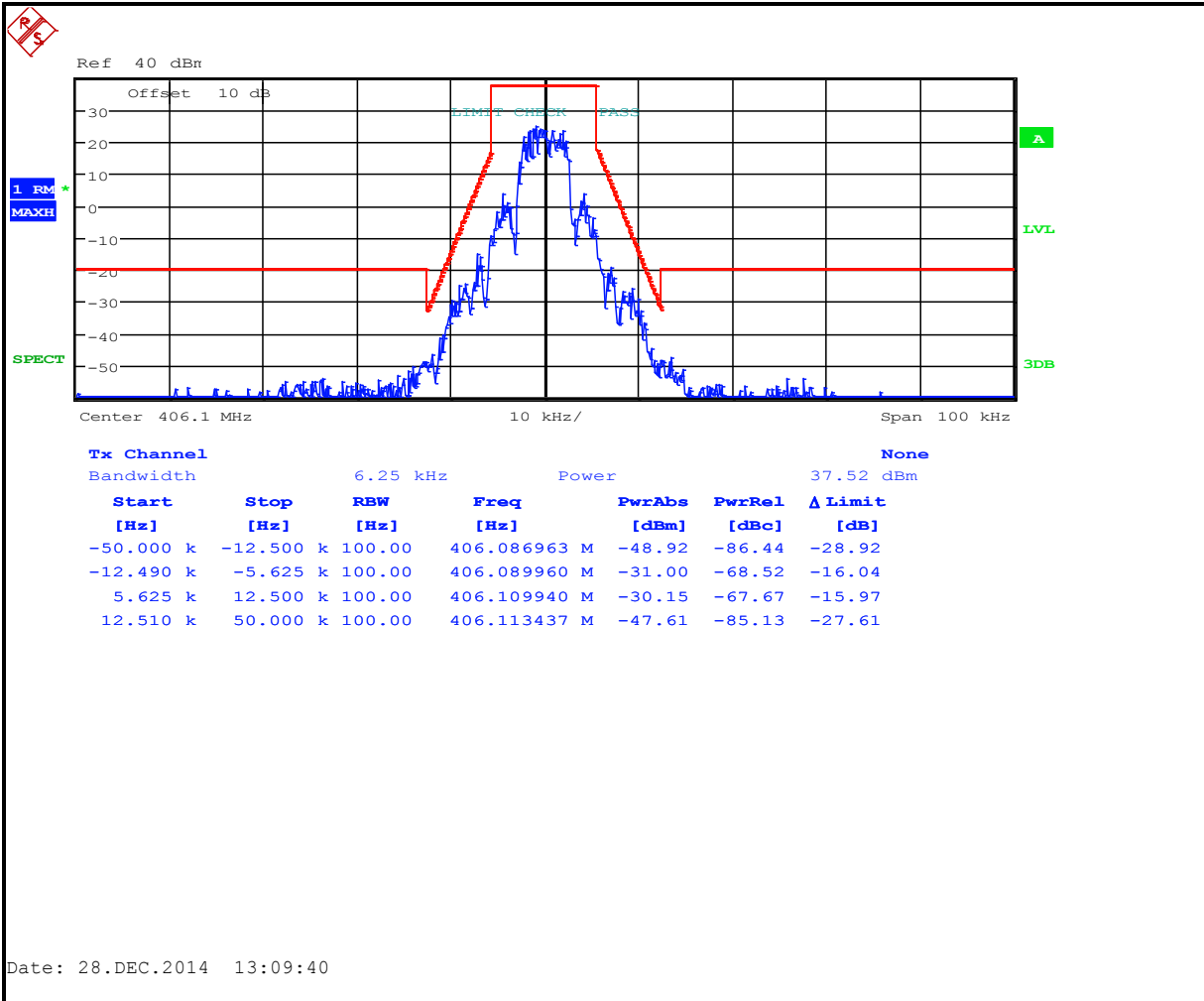
Plot 8-71: Occupied Bandwidth – 173.9875 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



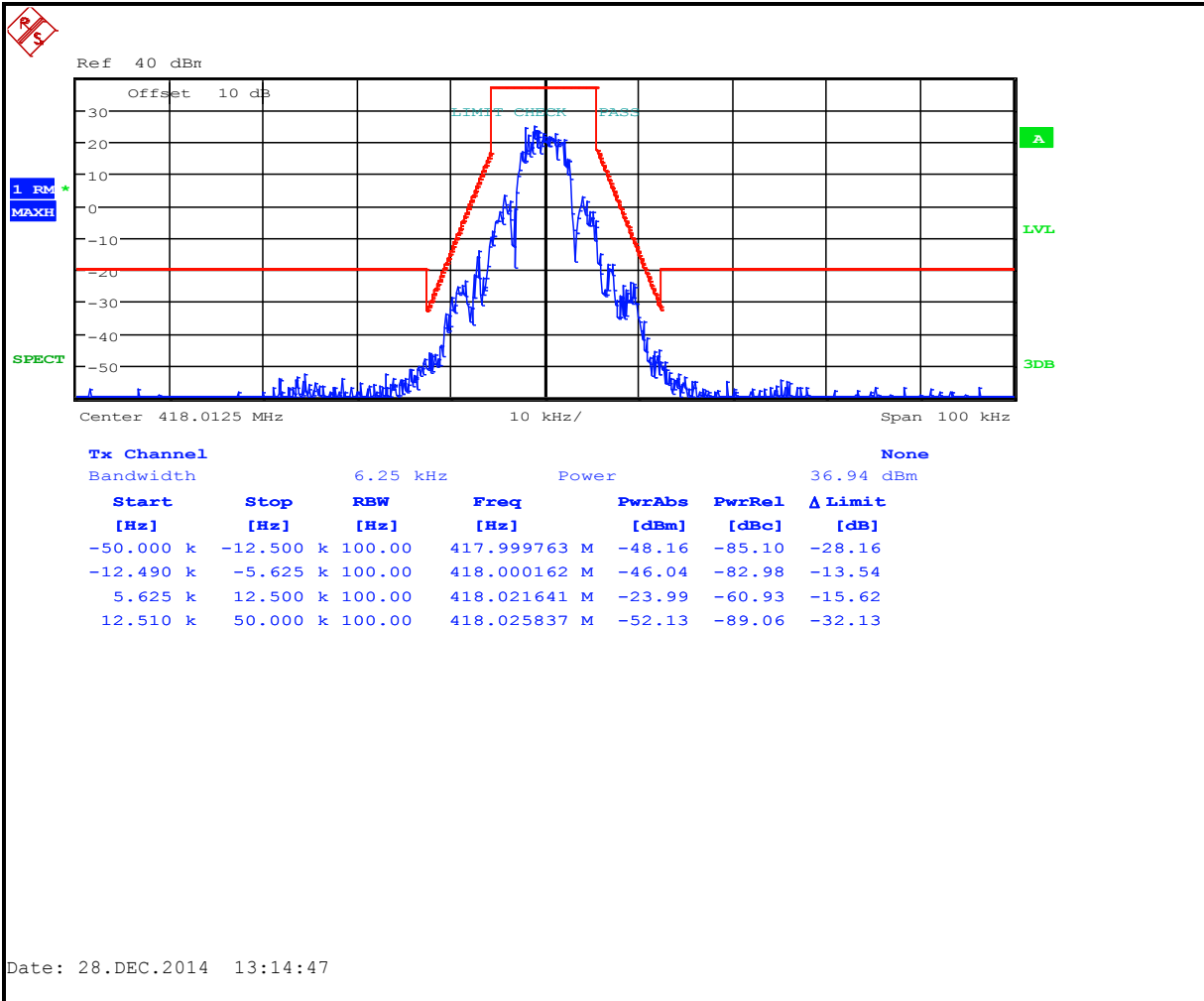
Plot 8-72: Occupied Bandwidth – 378.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



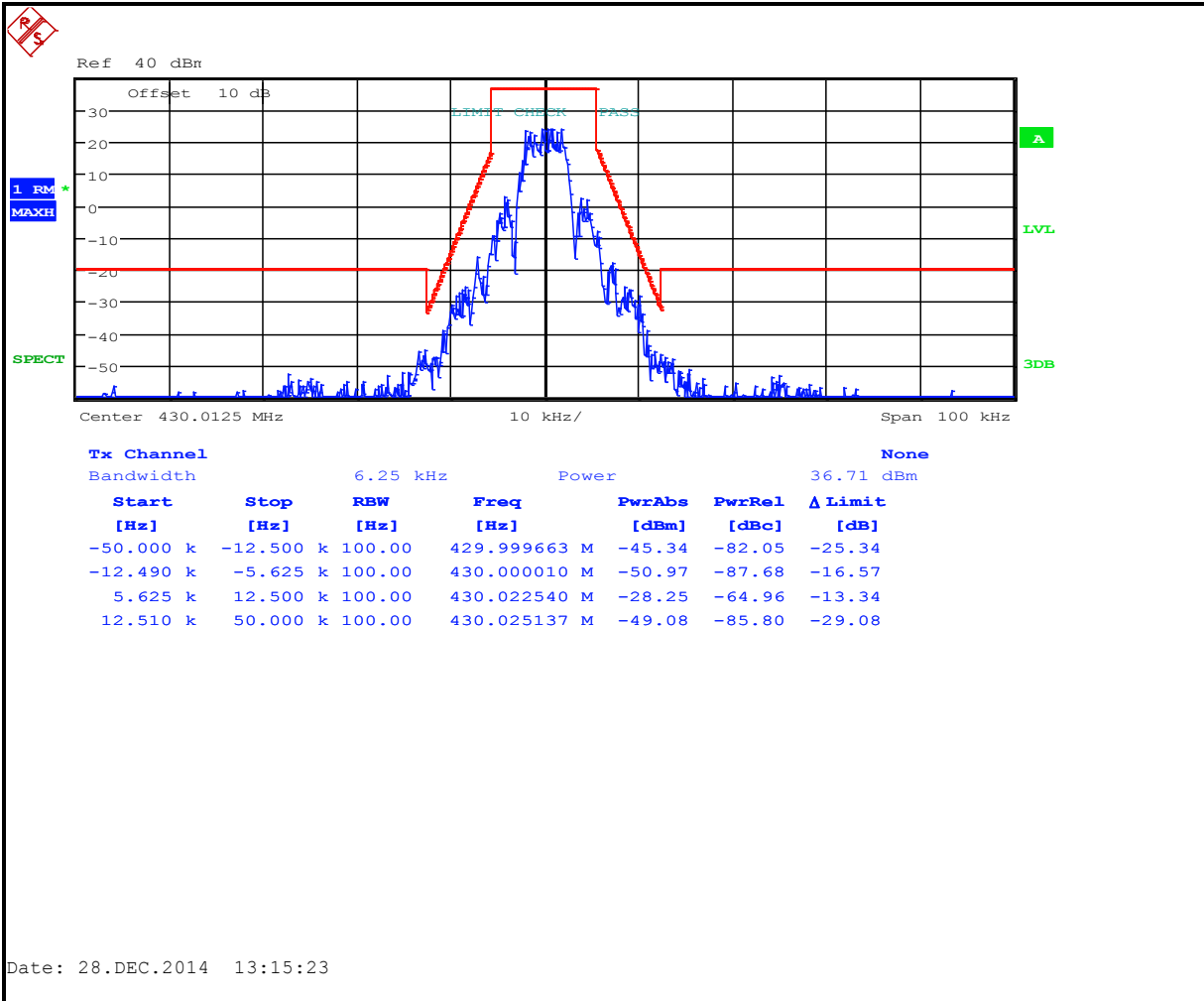
Plot 8-73: Occupied Bandwidth – 406.1000 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



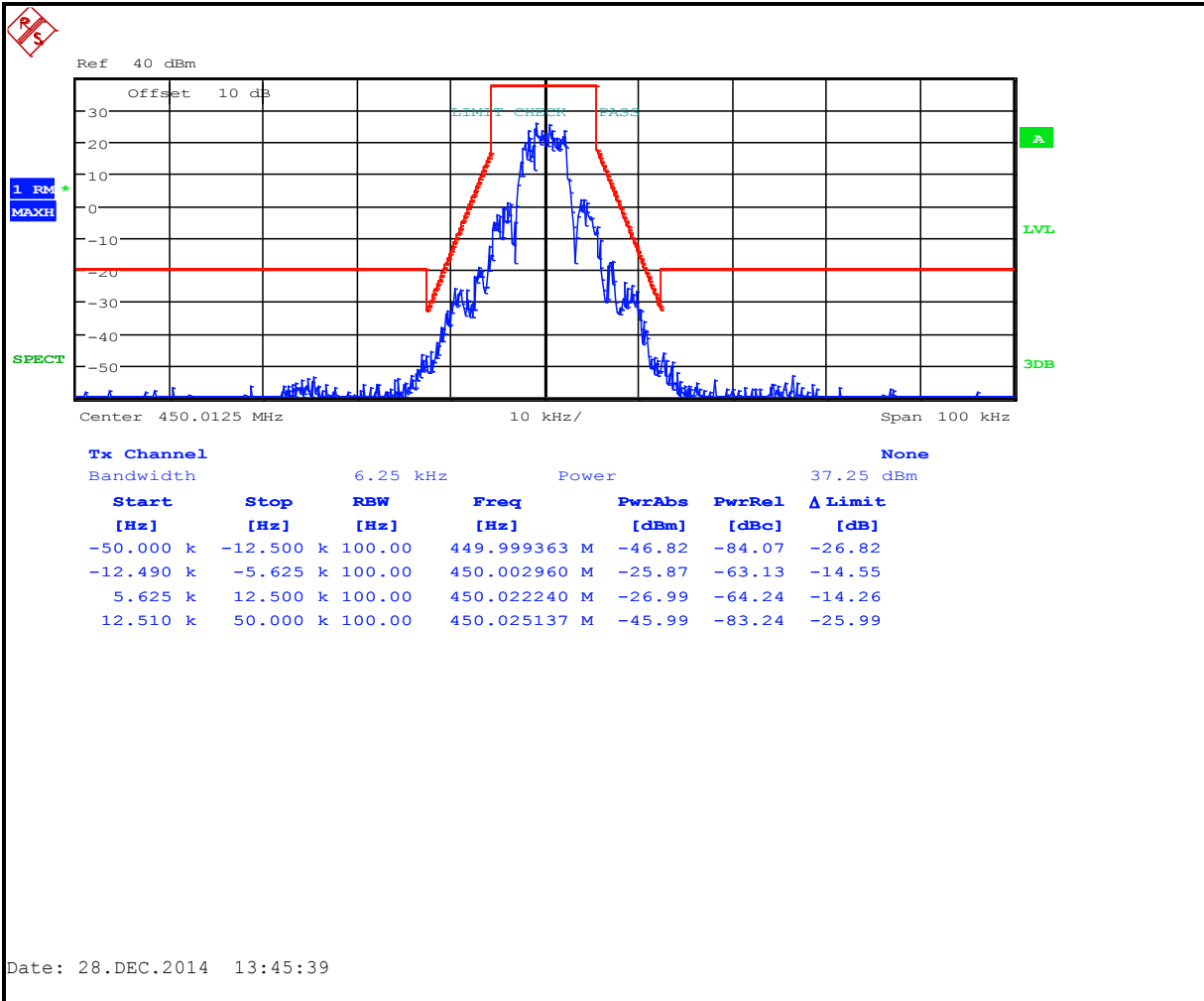
Plot 8-74: Occupied Bandwidth – 418.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



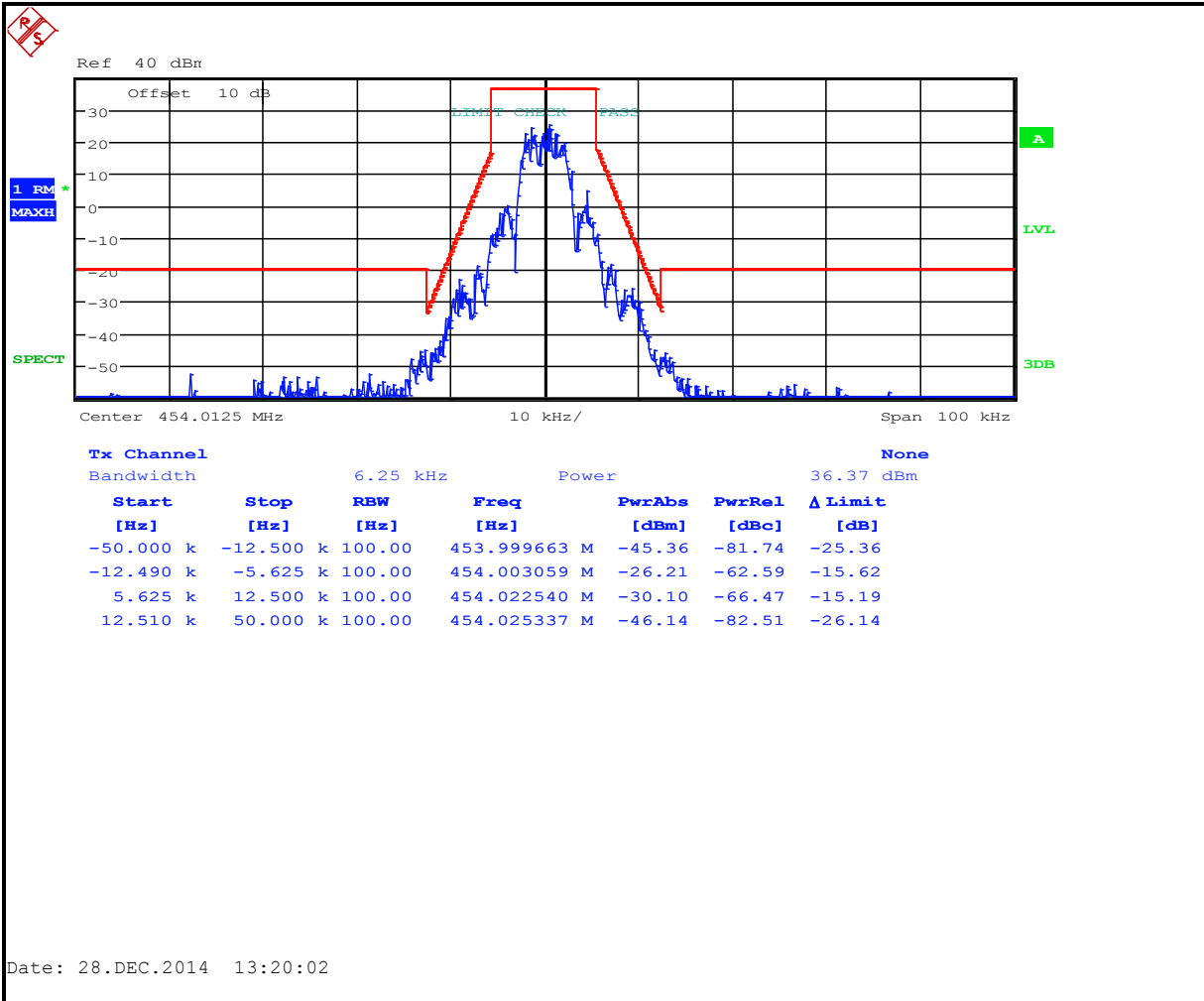
Plot 8-75: Occupied Bandwidth – 430.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



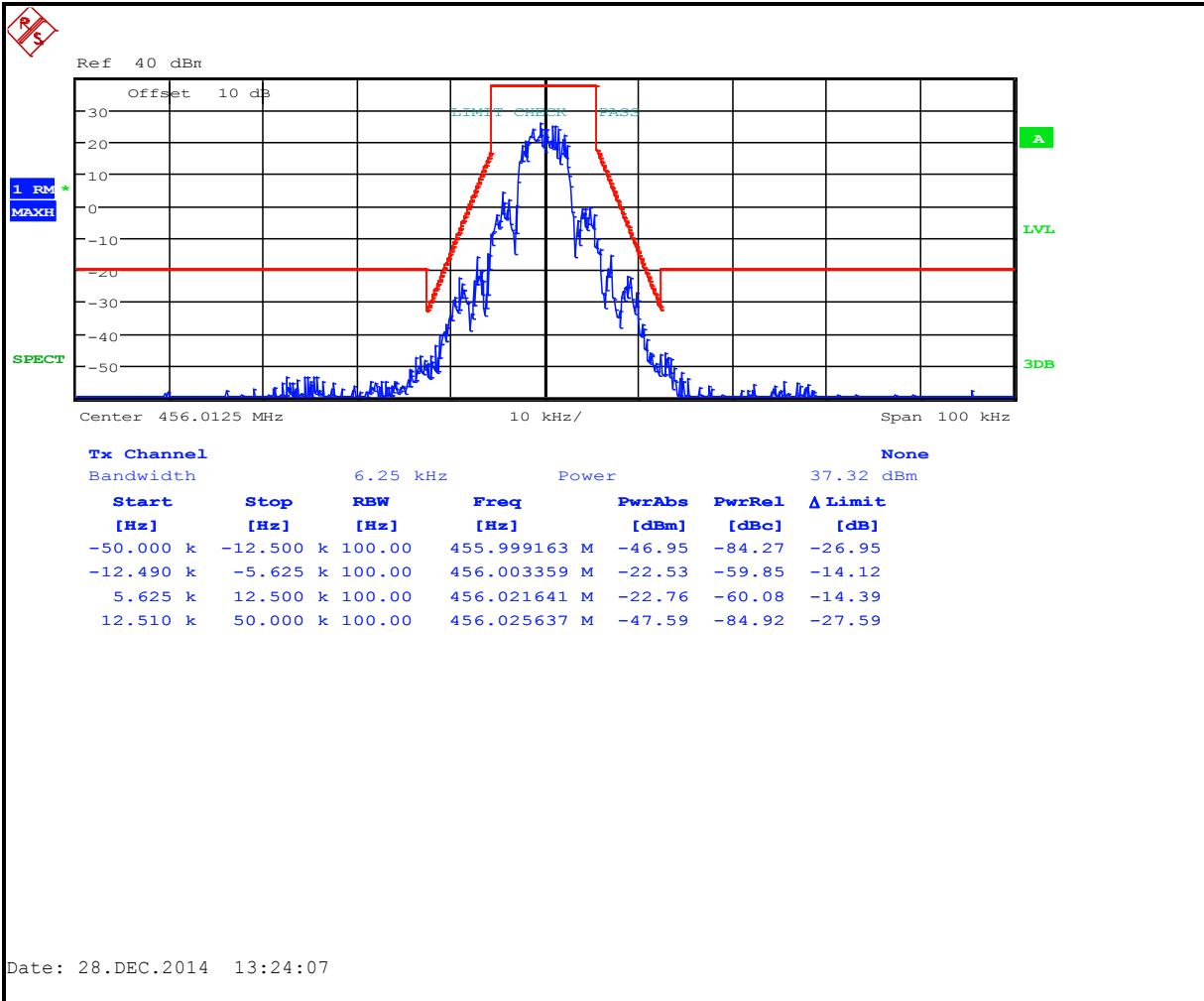
Plot 8-76: Occupied Bandwidth – 450.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



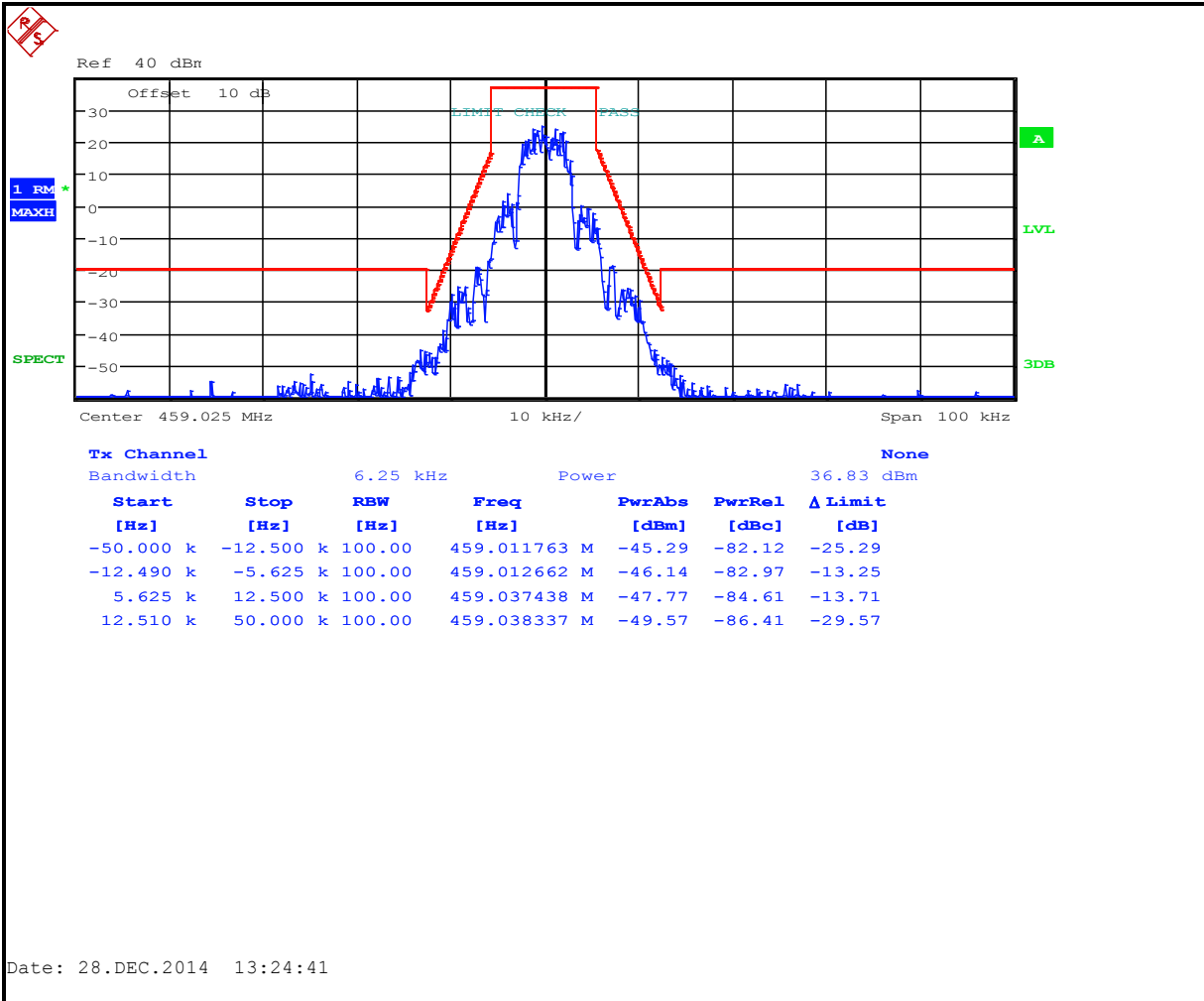
Plot 8-77: Occupied Bandwidth – 454.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



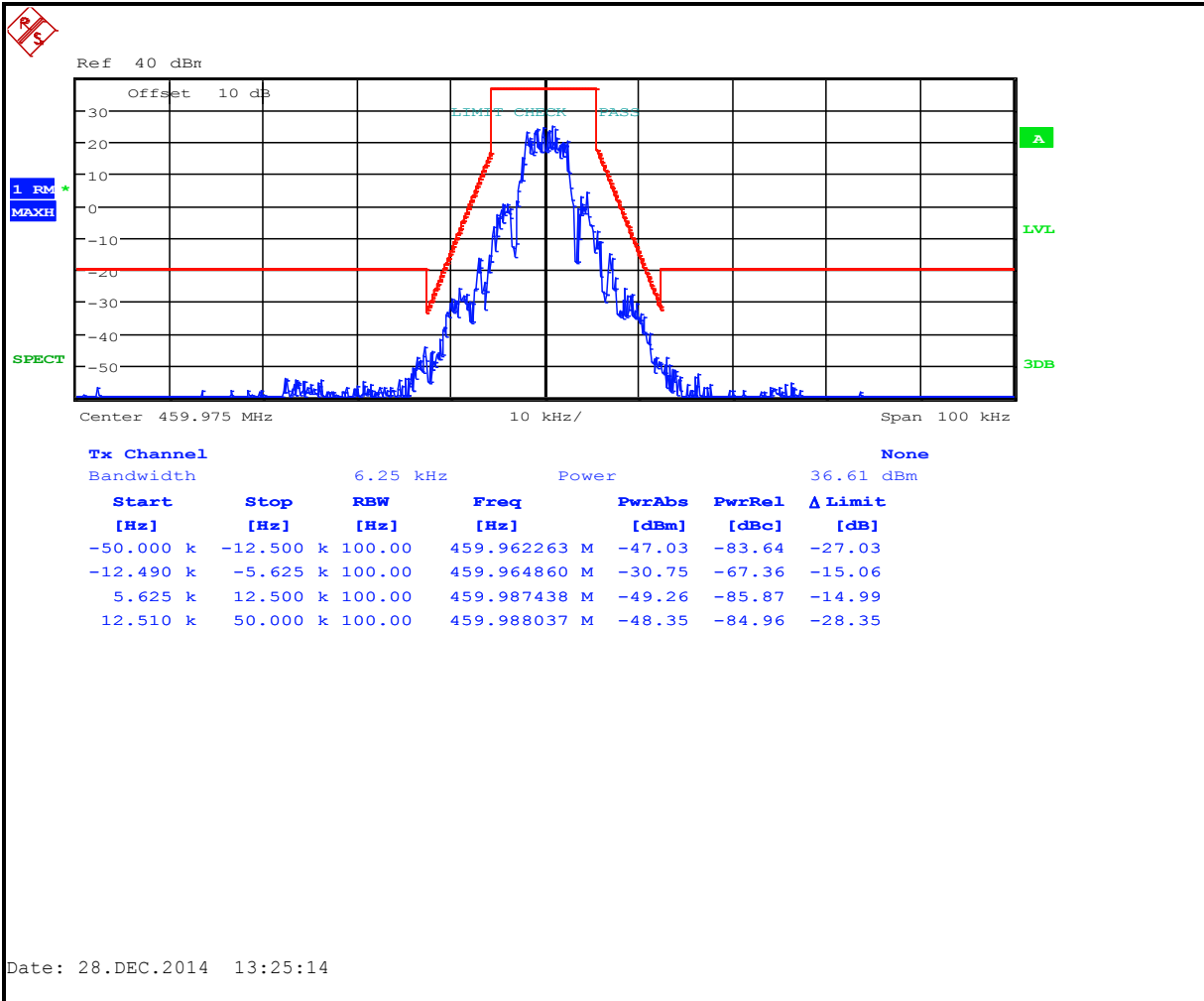
Plot 8-78: Occupied Bandwidth – 456.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



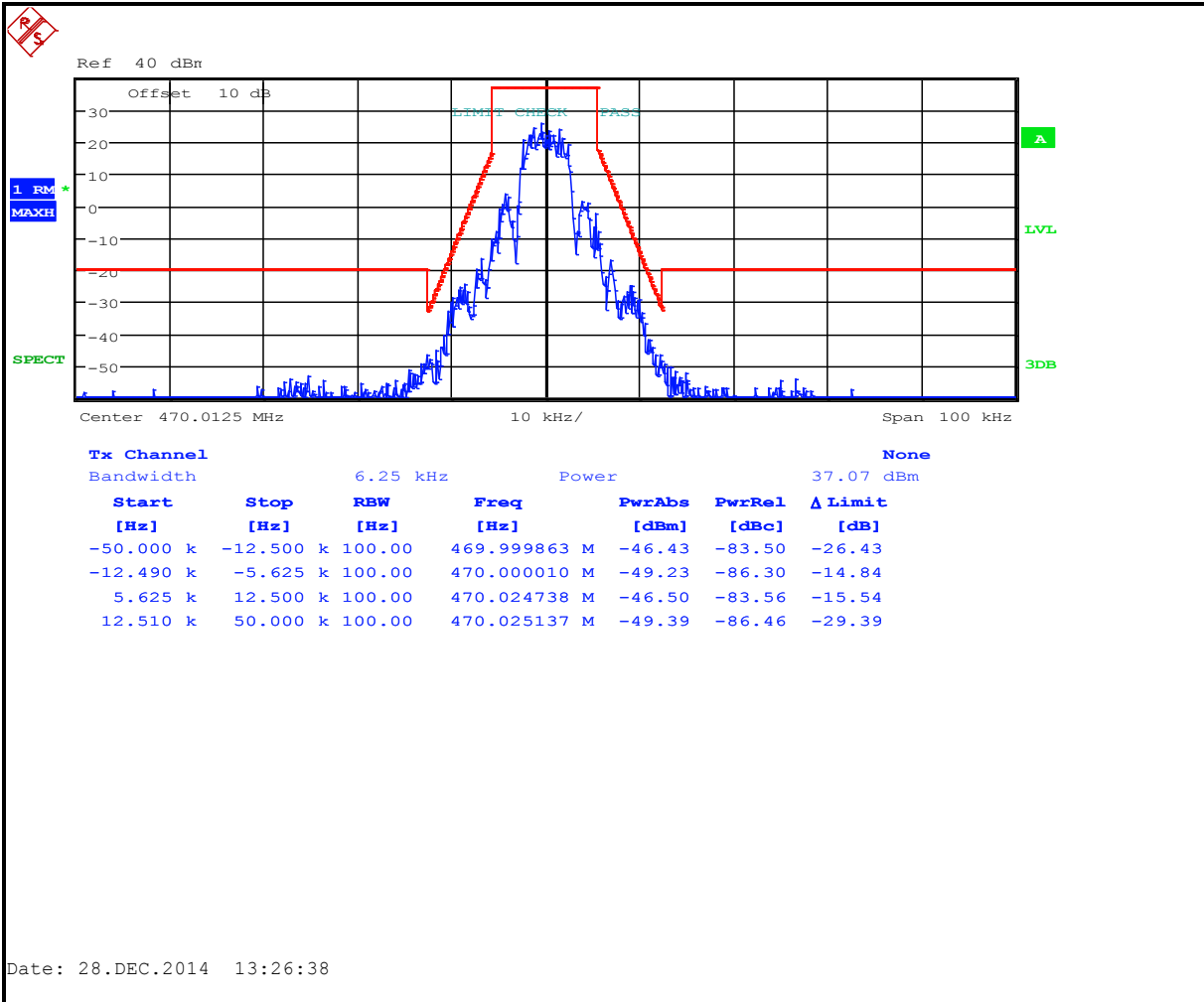
Plot 8-79: Occupied Bandwidth – 459.0250 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



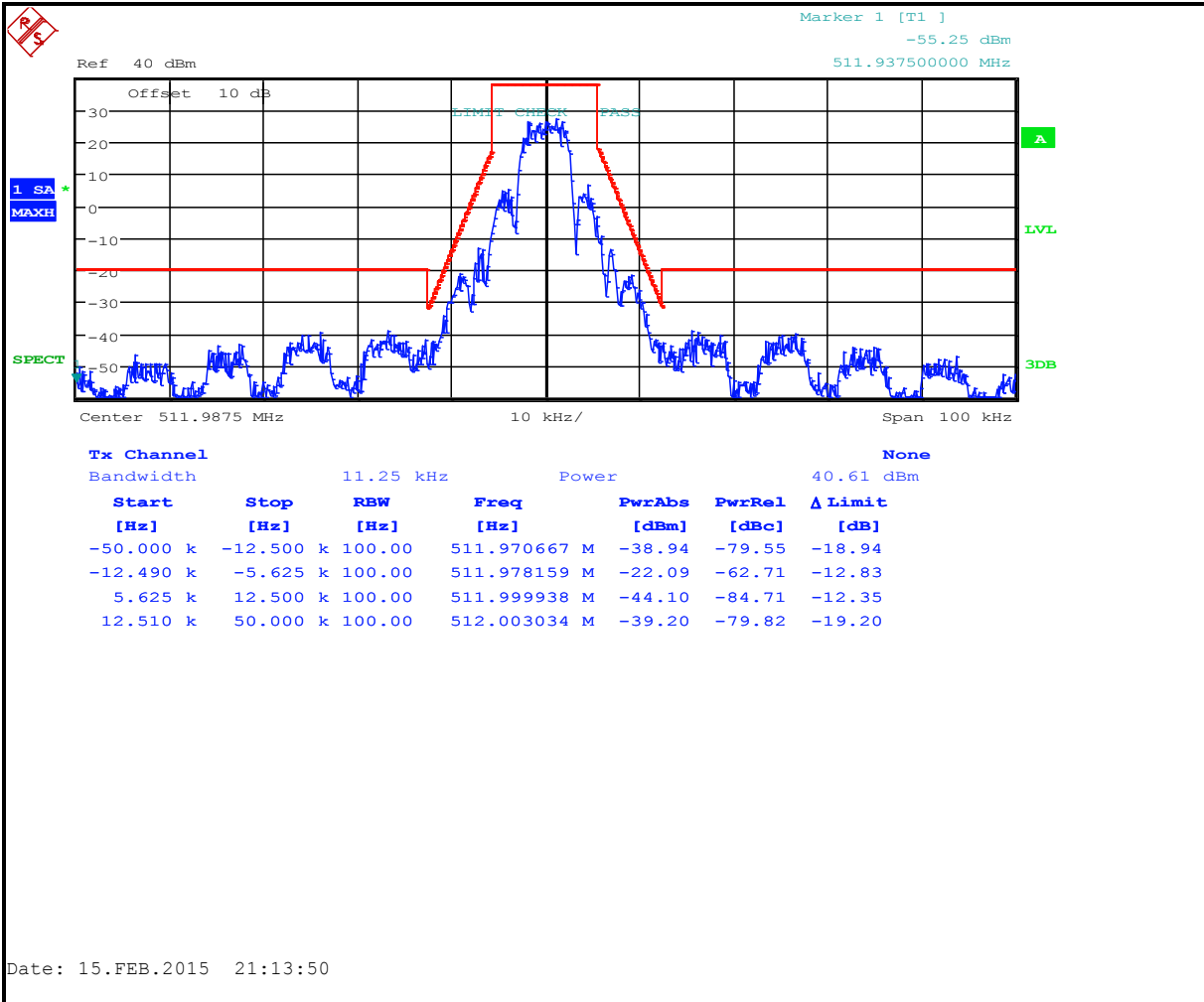
Plot 8-80: Occupied Bandwidth – 459.9750 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



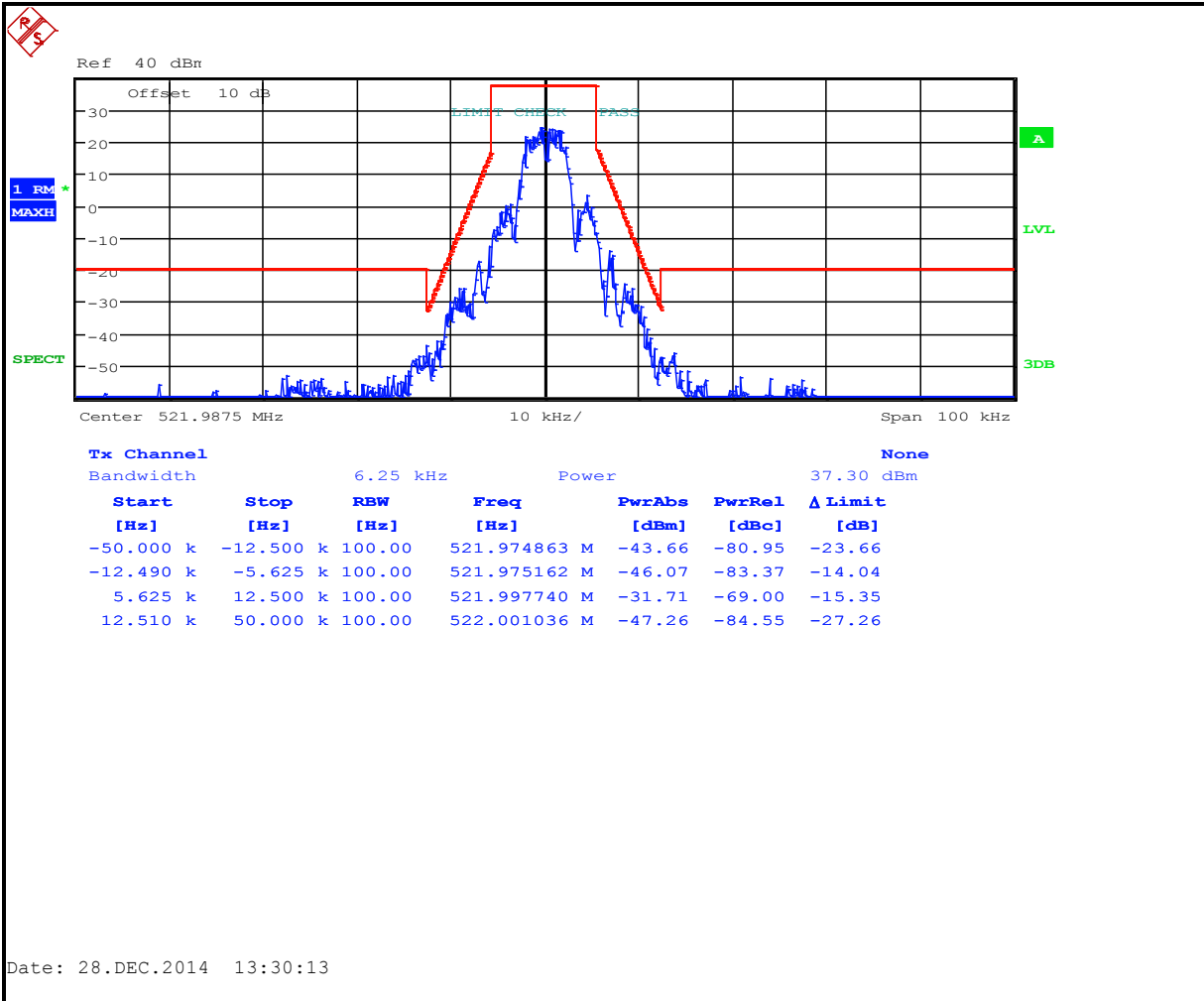
Plot 8-81: Occupied Bandwidth – 470.0125 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



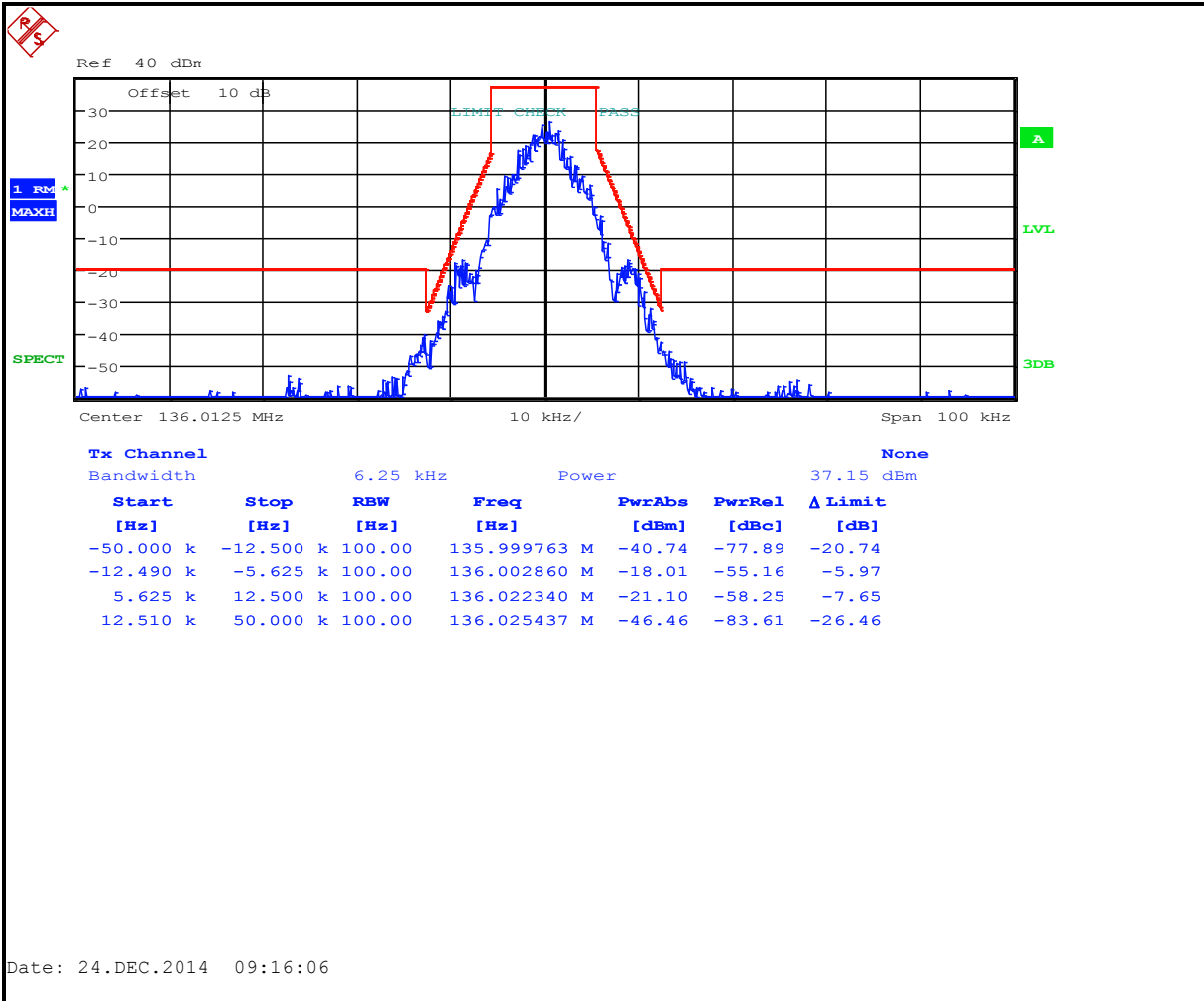
Plot 8-82: Occupied Bandwidth – 511.9875 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



Plot 8-83: Occupied Bandwidth – 521.9875 MHz; EDACS Narrowband 2-level FSK 4800 (Mask D)



Plot 8-84: Occupied Bandwidth – 136.0125 MHz; EDACS Narrowband 2-level FSK 9600 (Mask D)



Plot 8-85: Occupied Bandwidth – 141.0125 MHz; EDACS Narrowband 2-level FSK 9600 (Mask D)

