

9 Appendix

9.1 Appendix 15.407

1.Emission Bandwidth Measurement

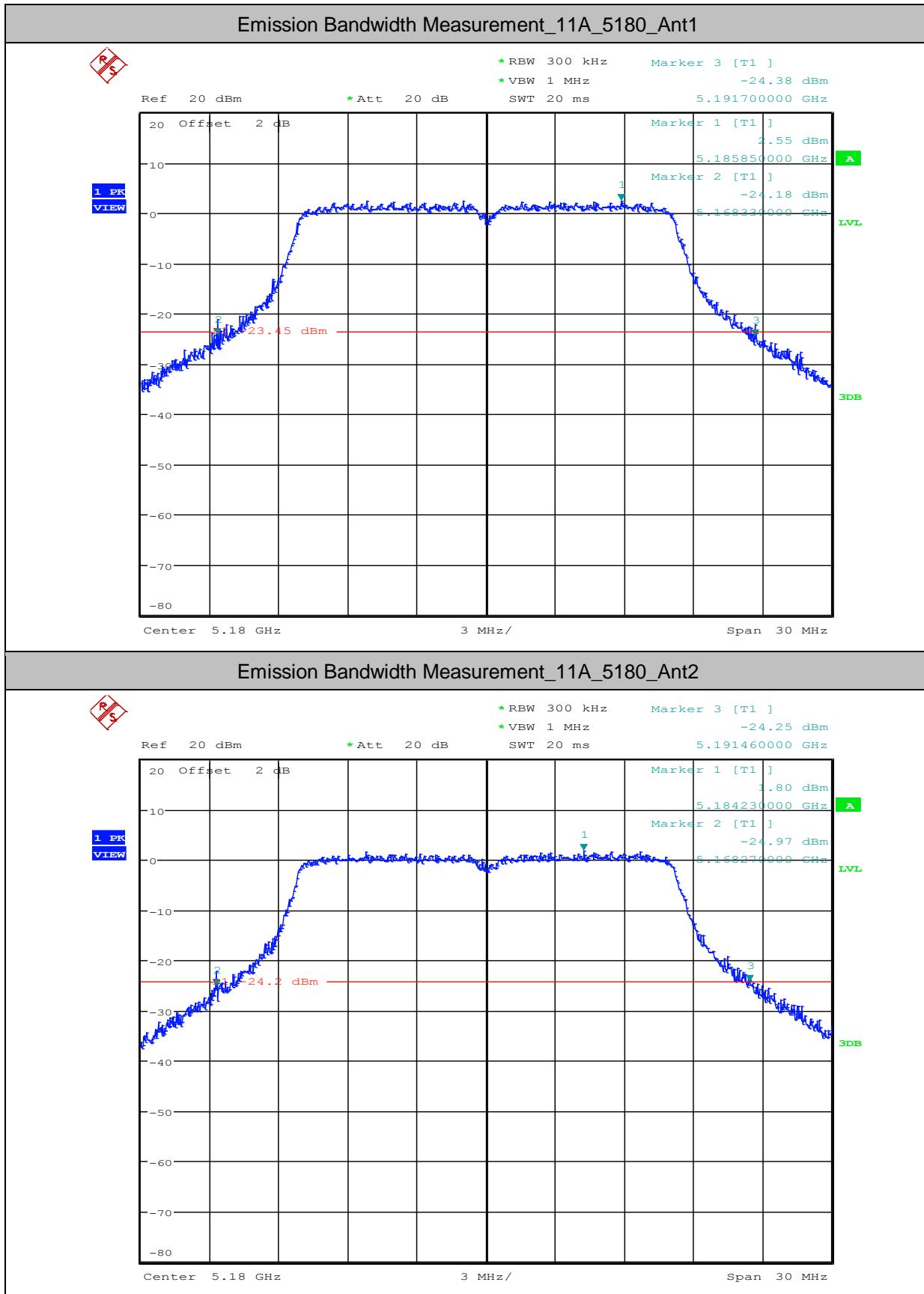
Test Mode	Test Channel	Ant	EBW[MHz]	Limit[MHz]	Verdict
11A	5180	Ant1	23.370	---	PASS
11A	5180	Ant2	23.190	---	PASS
11A	5220	Ant1	22.980	---	PASS
11A	5220	Ant2	23.280	---	PASS
11A	5240	Ant1	22.830	---	PASS
11A	5240	Ant2	22.860	---	PASS
11A	5745	Ant1	16.380	>=0.5	PASS
11A	5745	Ant2	16.410	>=0.5	PASS
11A	5785	Ant1	16.380	>=0.5	PASS
11A	5785	Ant2	16.380	>=0.5	PASS
11A	5825	Ant1	16.380	>=0.5	PASS
11A	5825	Ant2	16.380	>=0.5	PASS
11N20	5180	Ant1	24.030	---	PASS
11N20	5180	Ant2	23.580	---	PASS
11N20	5220	Ant1	24.180	---	PASS
11N20	5220	Ant2	23.490	---	PASS
11N20	5240	Ant1	22.980	---	PASS
11N20	5240	Ant2	23.640	---	PASS
11N20	5745	Ant1	17.640	>=0.5	PASS
11N20	5745	Ant2	17.610	>=0.5	PASS
11N20	5785	Ant1	17.610	>=0.5	PASS
11N20	5785	Ant2	17.610	>=0.5	PASS
11N20	5825	Ant1	17.610	>=0.5	PASS
11N20	5825	Ant2	17.610	>=0.5	PASS
11N40	5190	Ant1	46.200	---	PASS
11N40	5190	Ant2	45.420	---	PASS
11N40	5230	Ant1	45.120	---	PASS
11N40	5230	Ant2	46.500	---	PASS
11N40	5755	Ant1	36.420	>=0.5	PASS

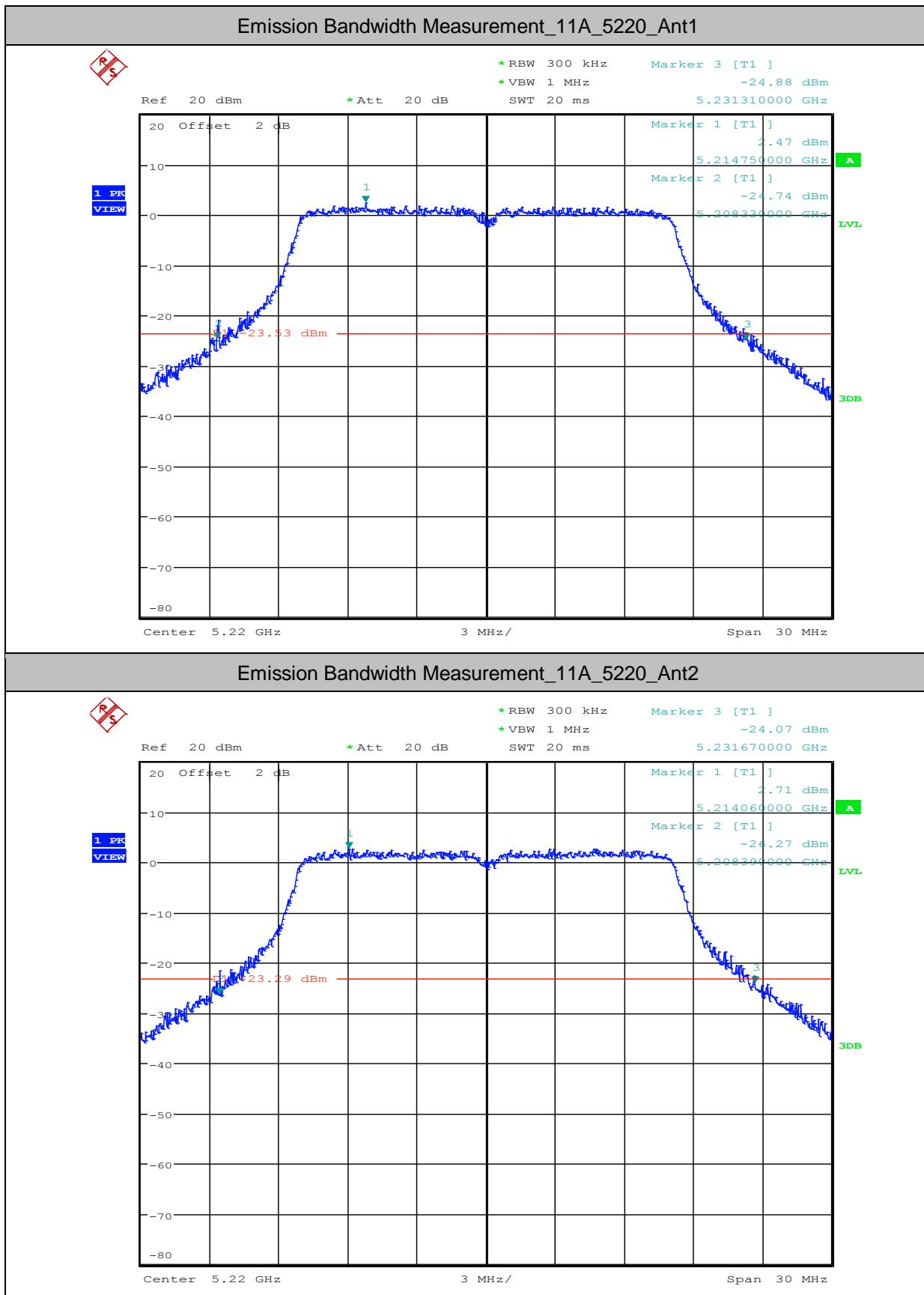


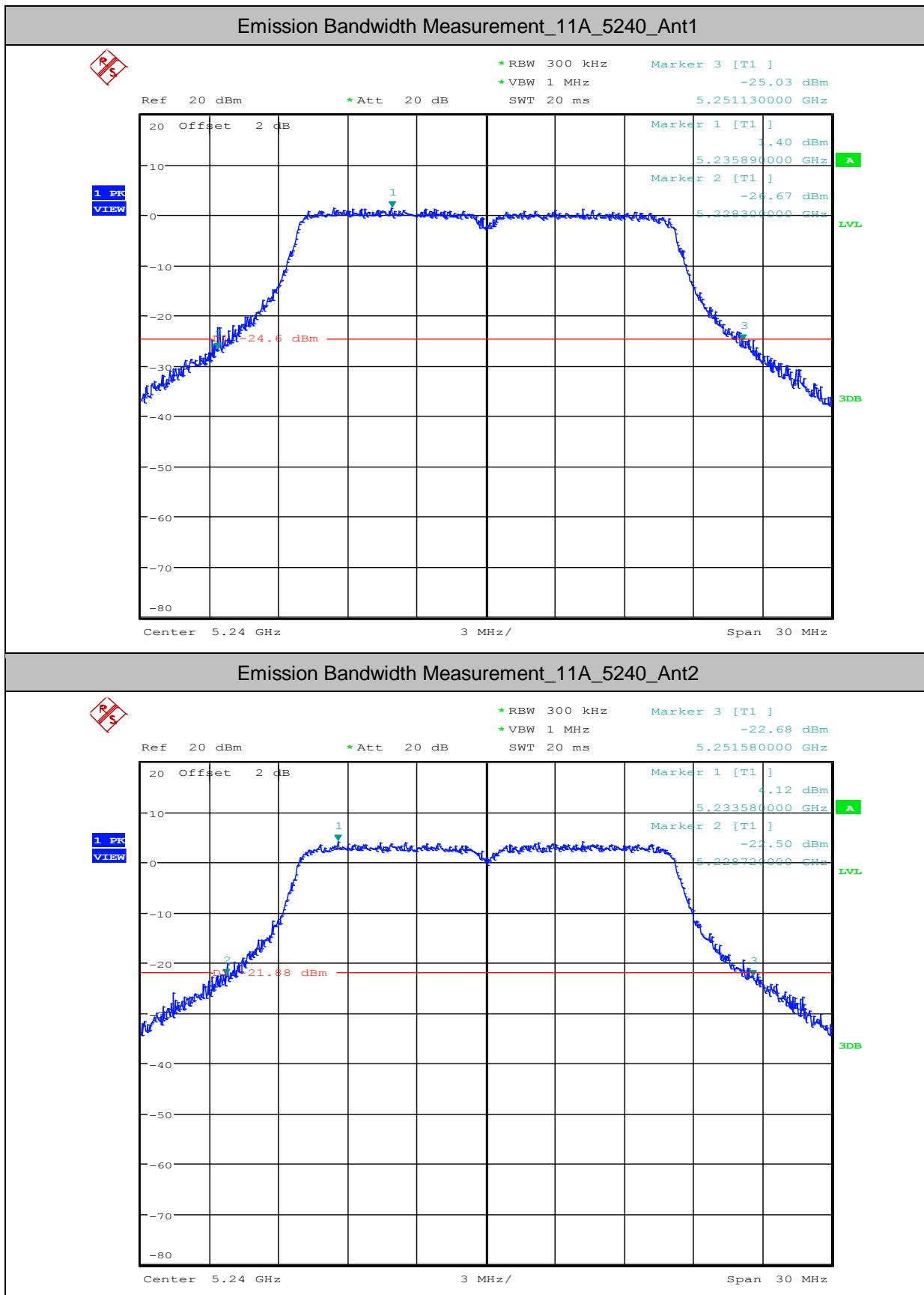
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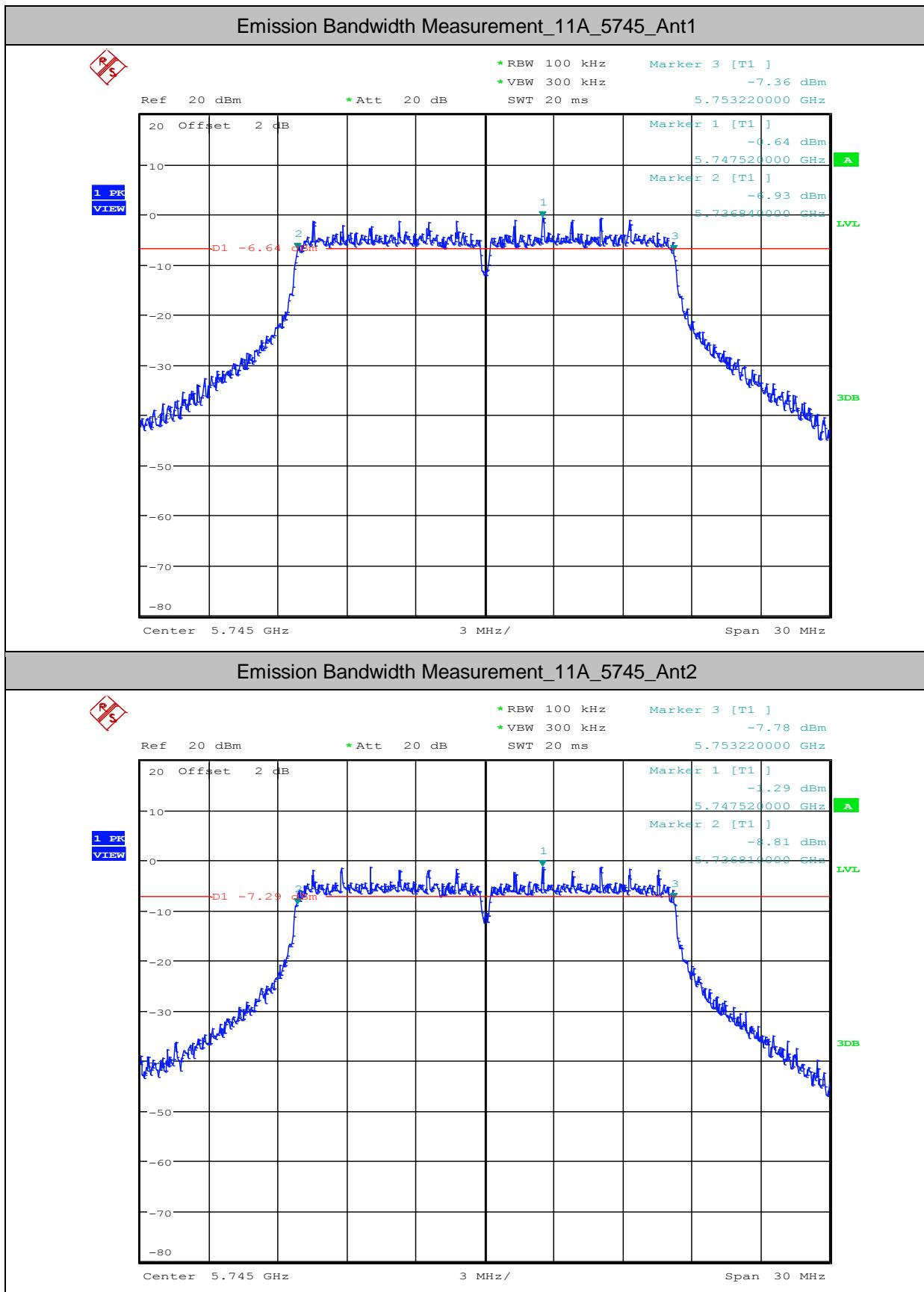
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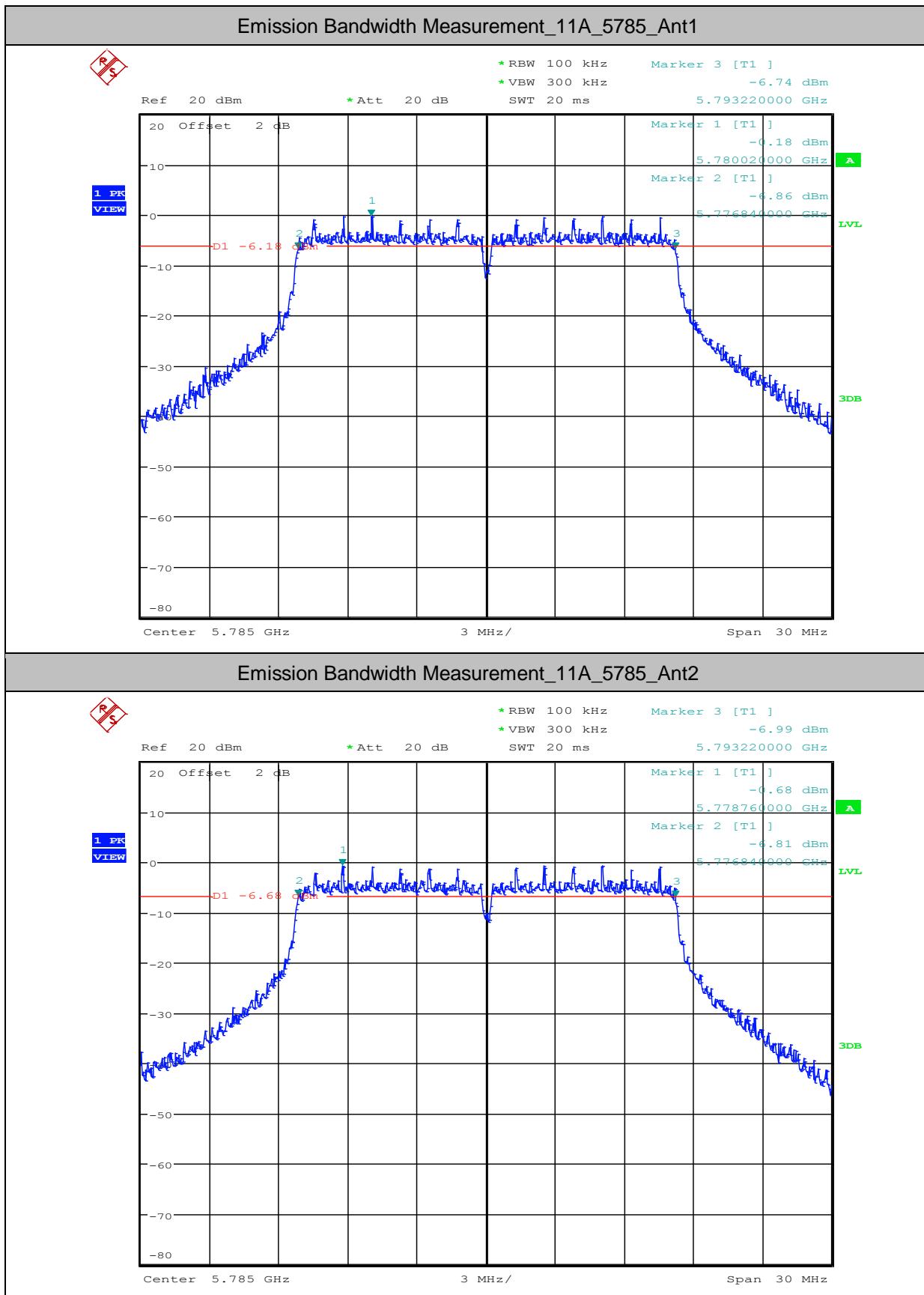
11N40	5755	Ant2	36.420	>=0.5	PASS
11N40	5795	Ant1	36.420	>=0.5	PASS
11N40	5795	Ant2	36.420	>=0.5	PASS
11AC20	5180	Ant1	23.820	---	PASS
11AC20	5180	Ant2	23.580	---	PASS
11AC20	5220	Ant1	23.790	---	PASS
11AC20	5220	Ant2	23.730	---	PASS
11AC20	5240	Ant1	23.280	---	PASS
11AC20	5240	Ant2	24.120	---	PASS
11AC20	5745	Ant1	17.640	>=0.5	PASS
11AC20	5745	Ant2	17.640	>=0.5	PASS
11AC20	5785	Ant1	17.640	>=0.5	PASS
11AC20	5785	Ant2	17.640	>=0.5	PASS
11AC20	5825	Ant1	17.640	>=0.5	PASS
11AC20	5825	Ant2	17.640	>=0.5	PASS
11AC80	5210	Ant1	88.200	---	PASS
11AC80	5210	Ant2	89.160	---	PASS
11AC80	5775	Ant1	75.840	>=0.5	PASS
11AC80	5775	Ant2	75.960	>=0.5	PASS
11AC40	5190	Ant1	45.960	---	PASS
11AC40	5190	Ant2	46.380	---	PASS
11AC40	5230	Ant1	47.100	---	PASS
11AC40	5230	Ant2	45.540	---	PASS
11AC40	5755	Ant1	36.420	>=0.5	PASS
11AC40	5755	Ant2	36.420	>=0.5	PASS
11AC40	5795	Ant1	36.420	>=0.5	PASS
11AC40	5795	Ant2	36.420	>=0.5	PASS

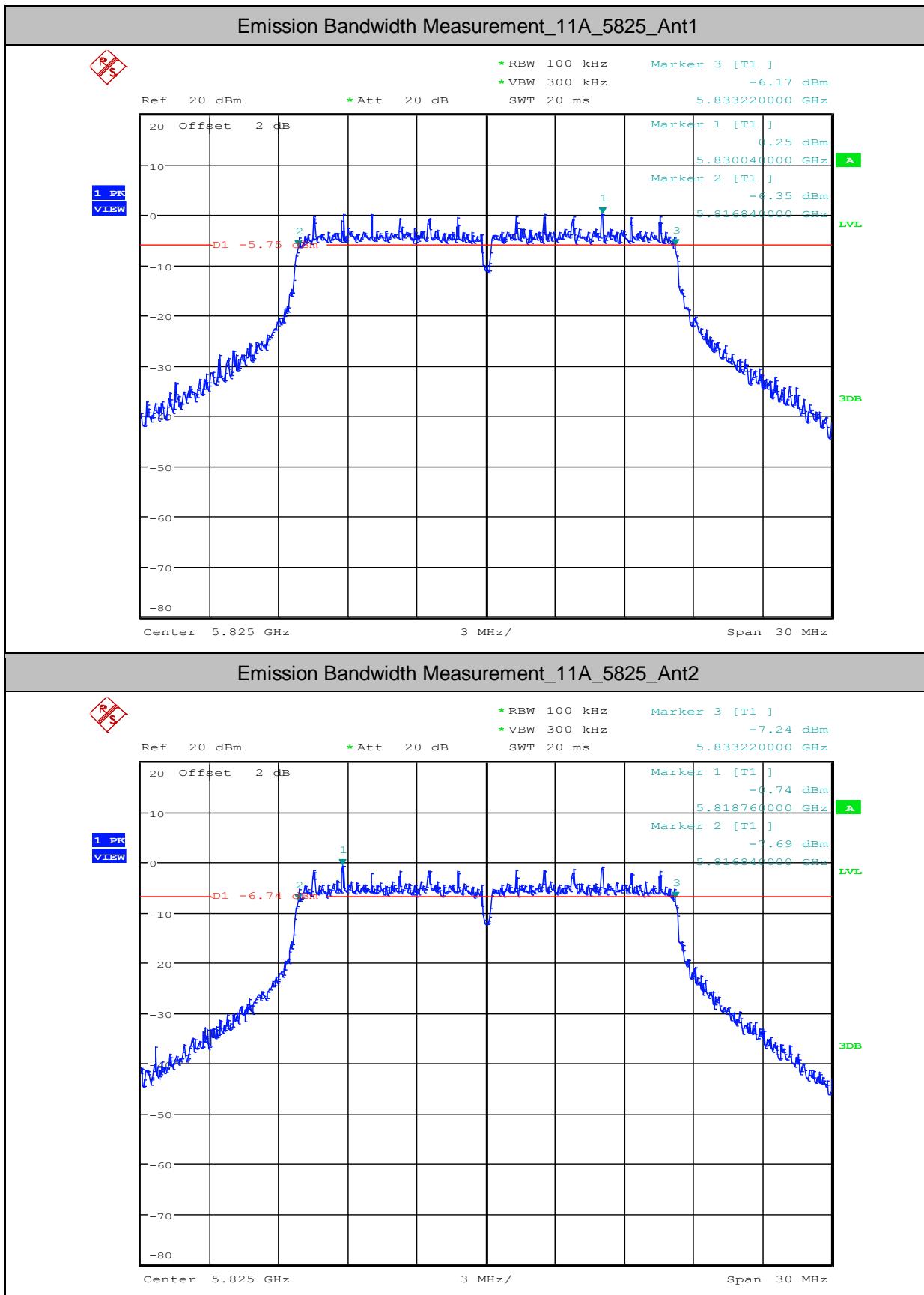


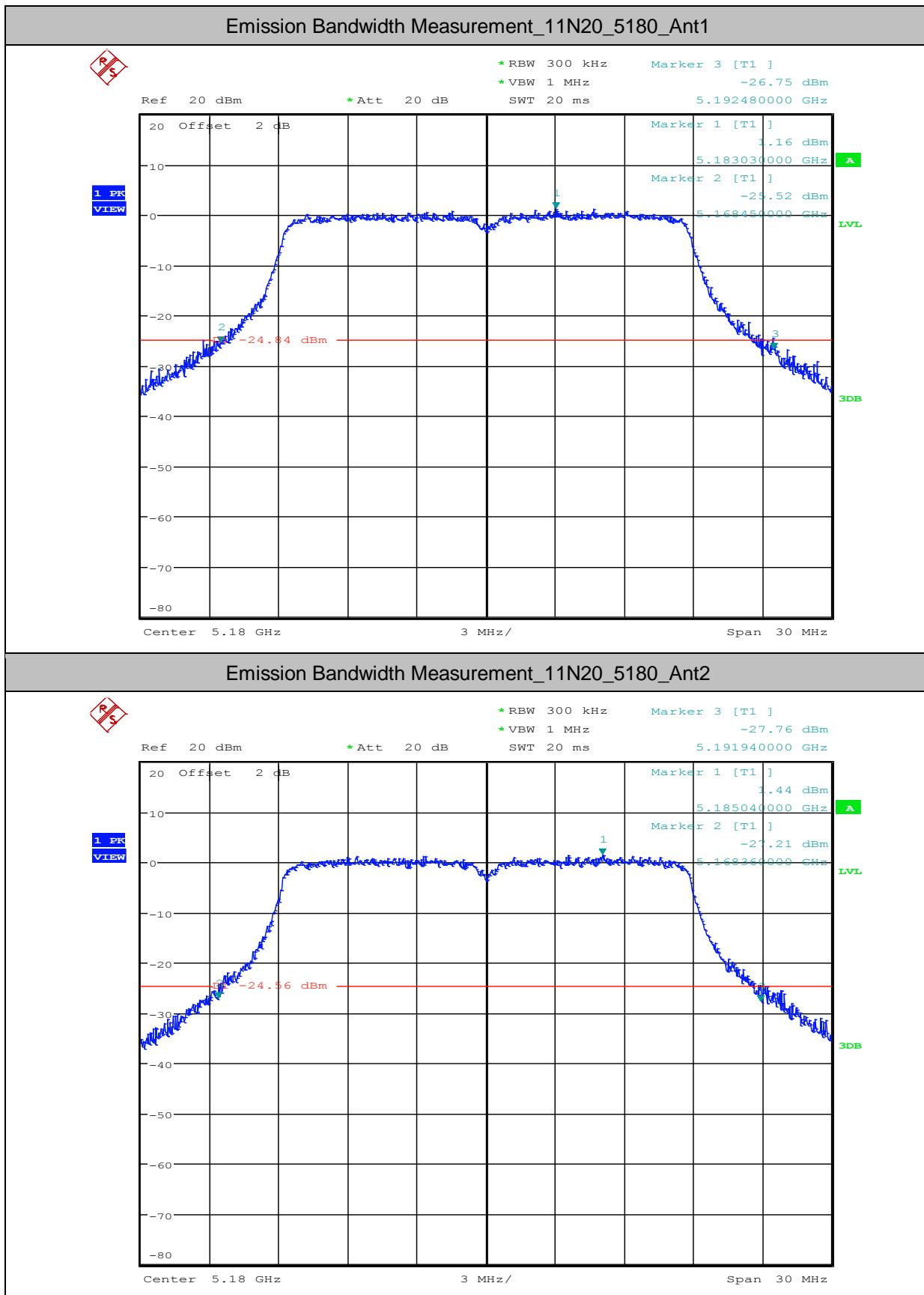


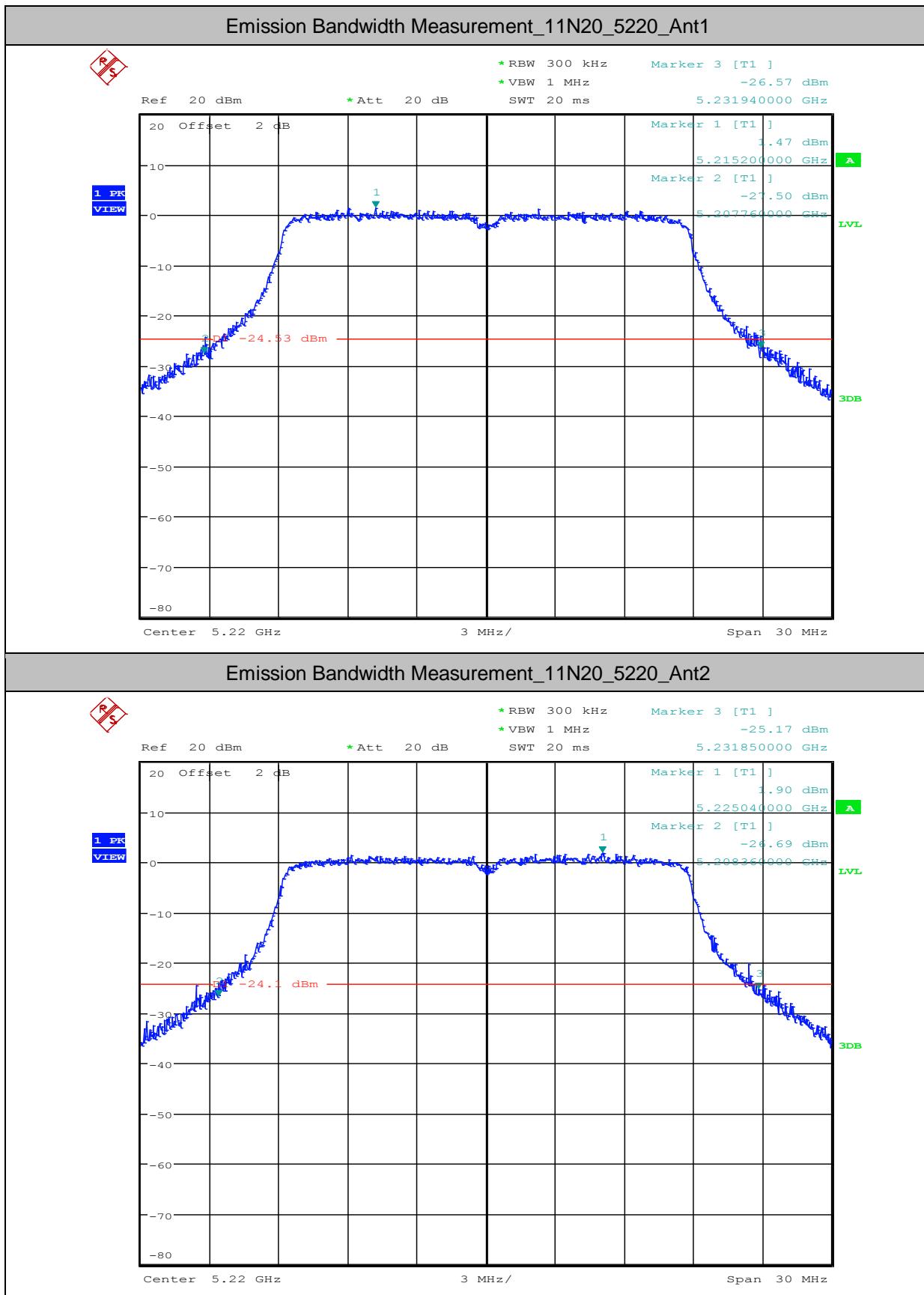


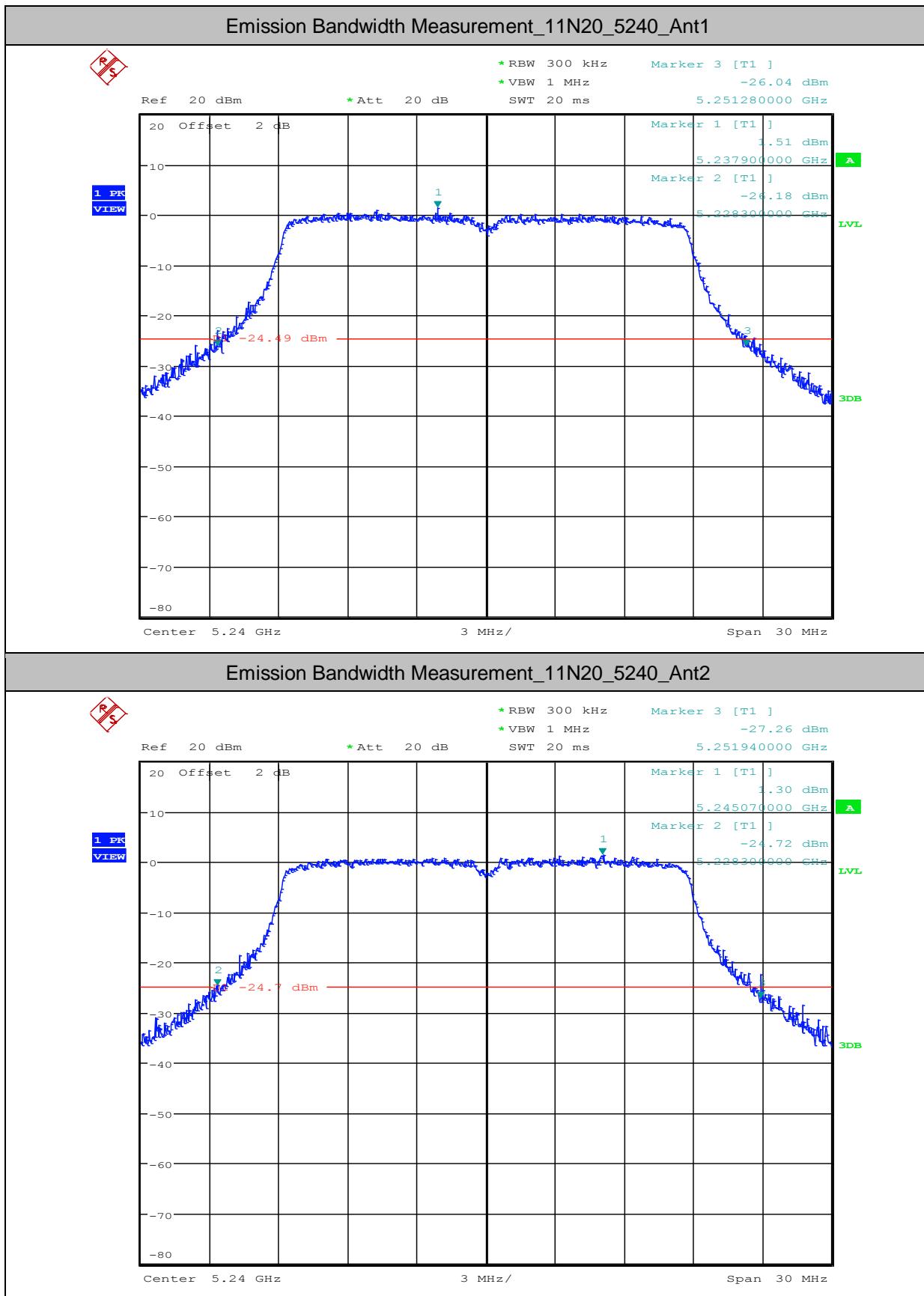


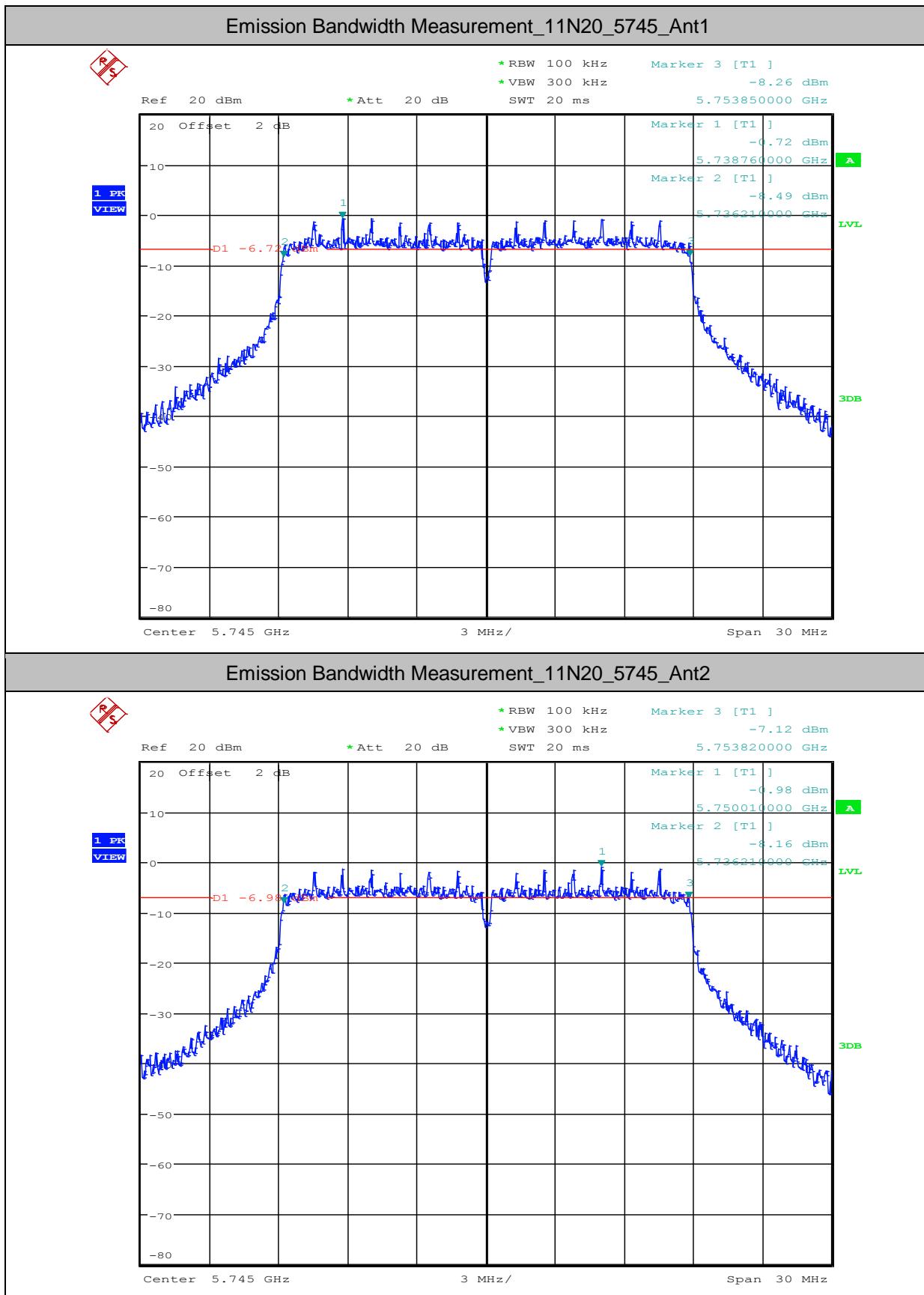


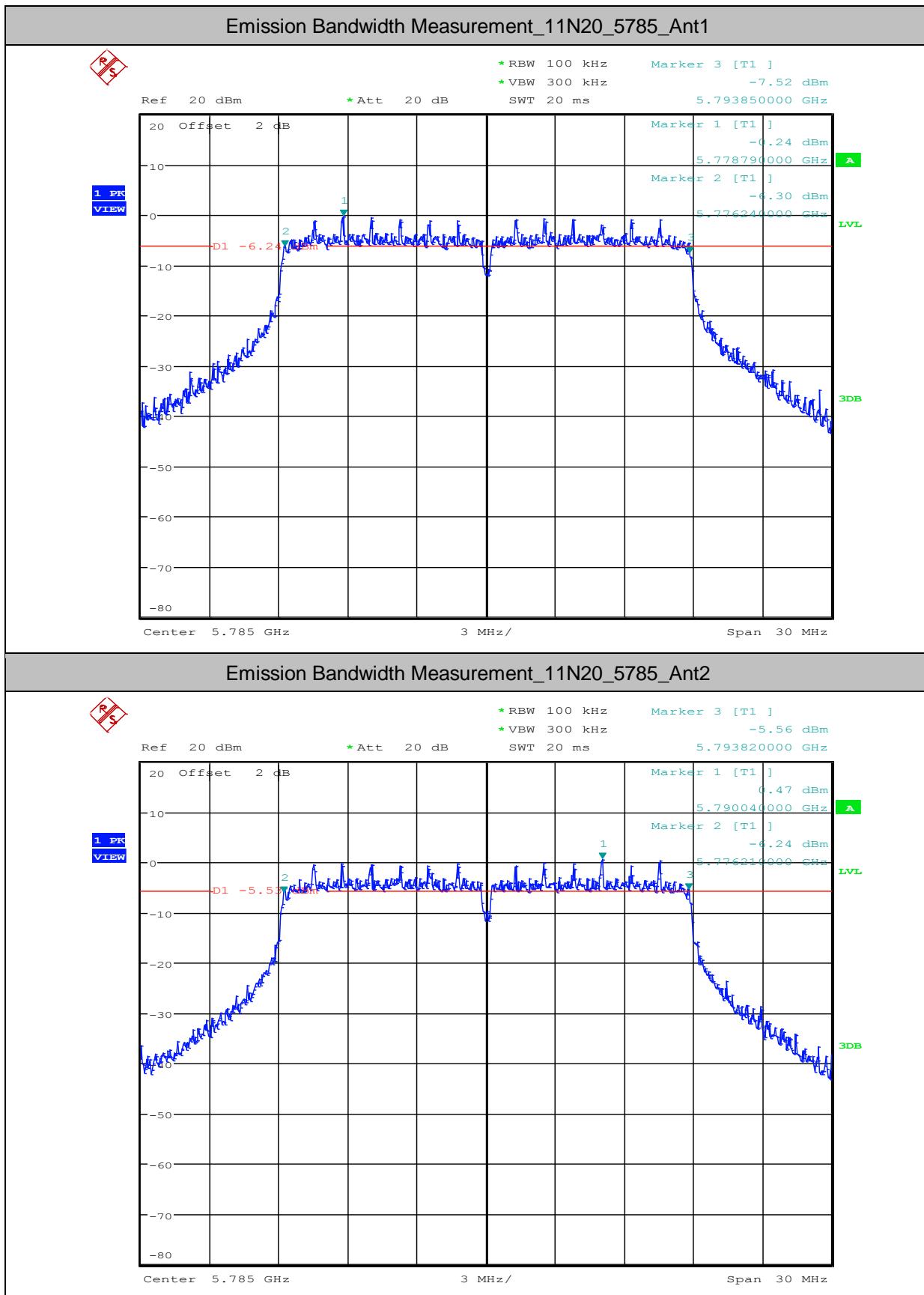


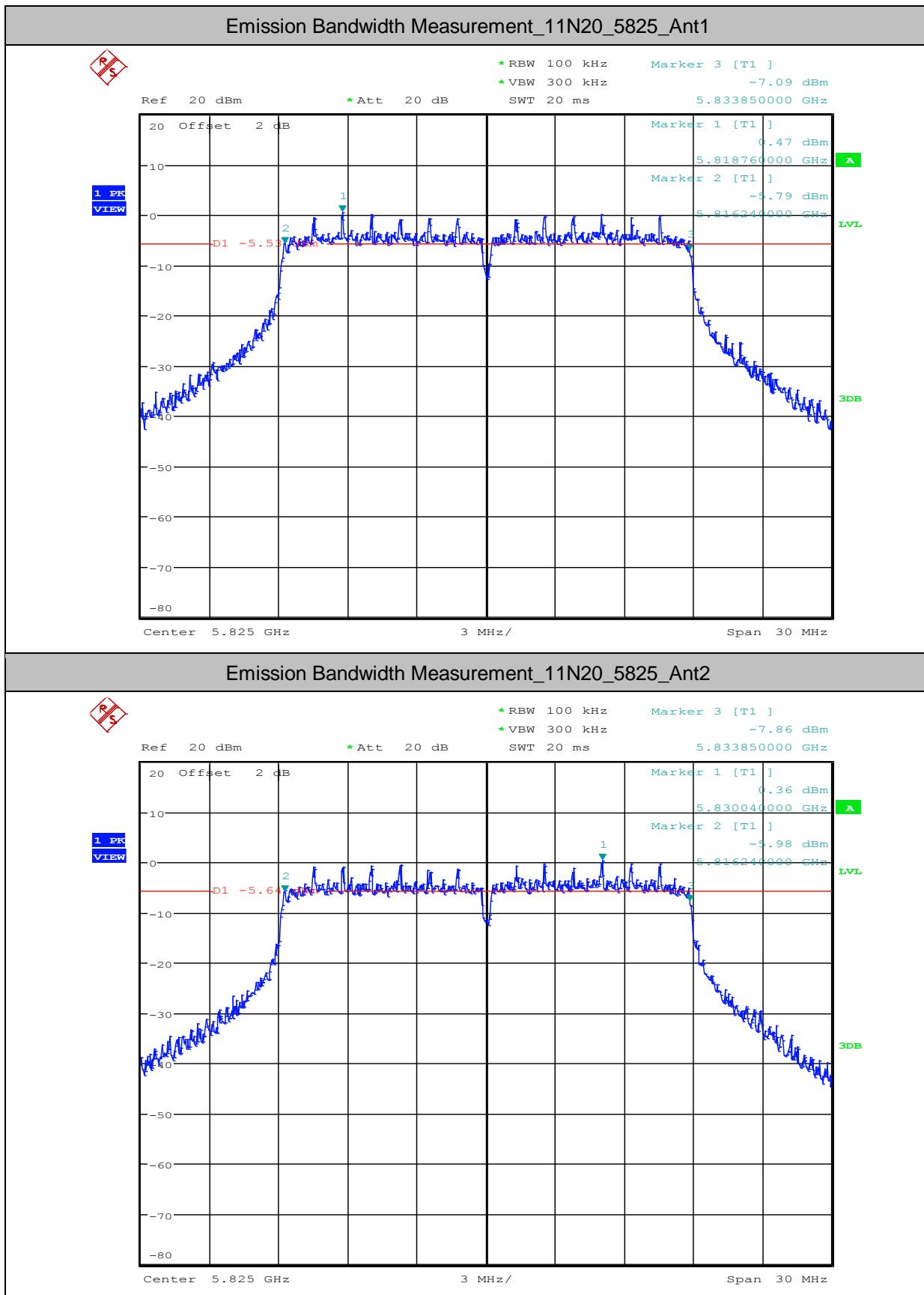


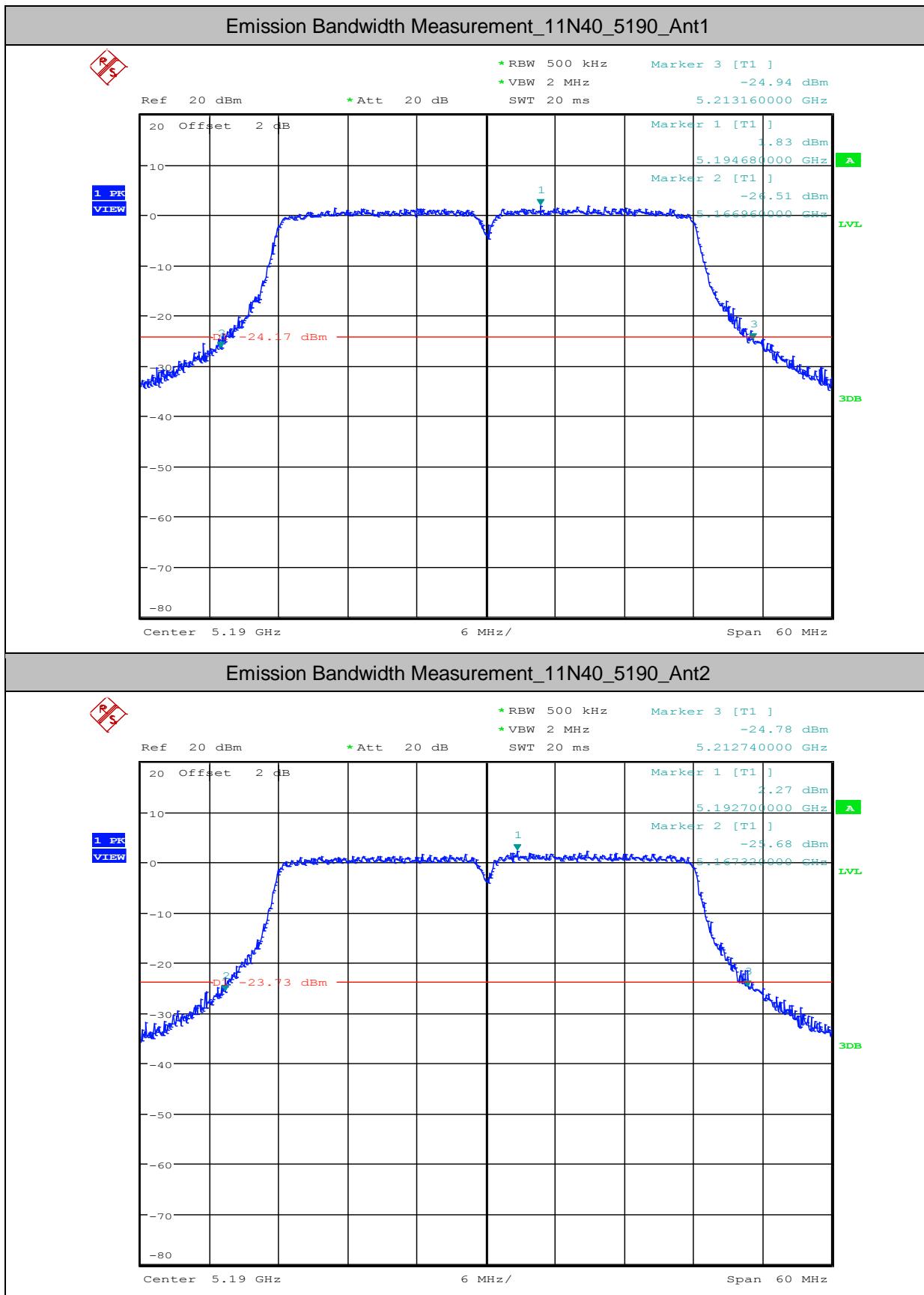


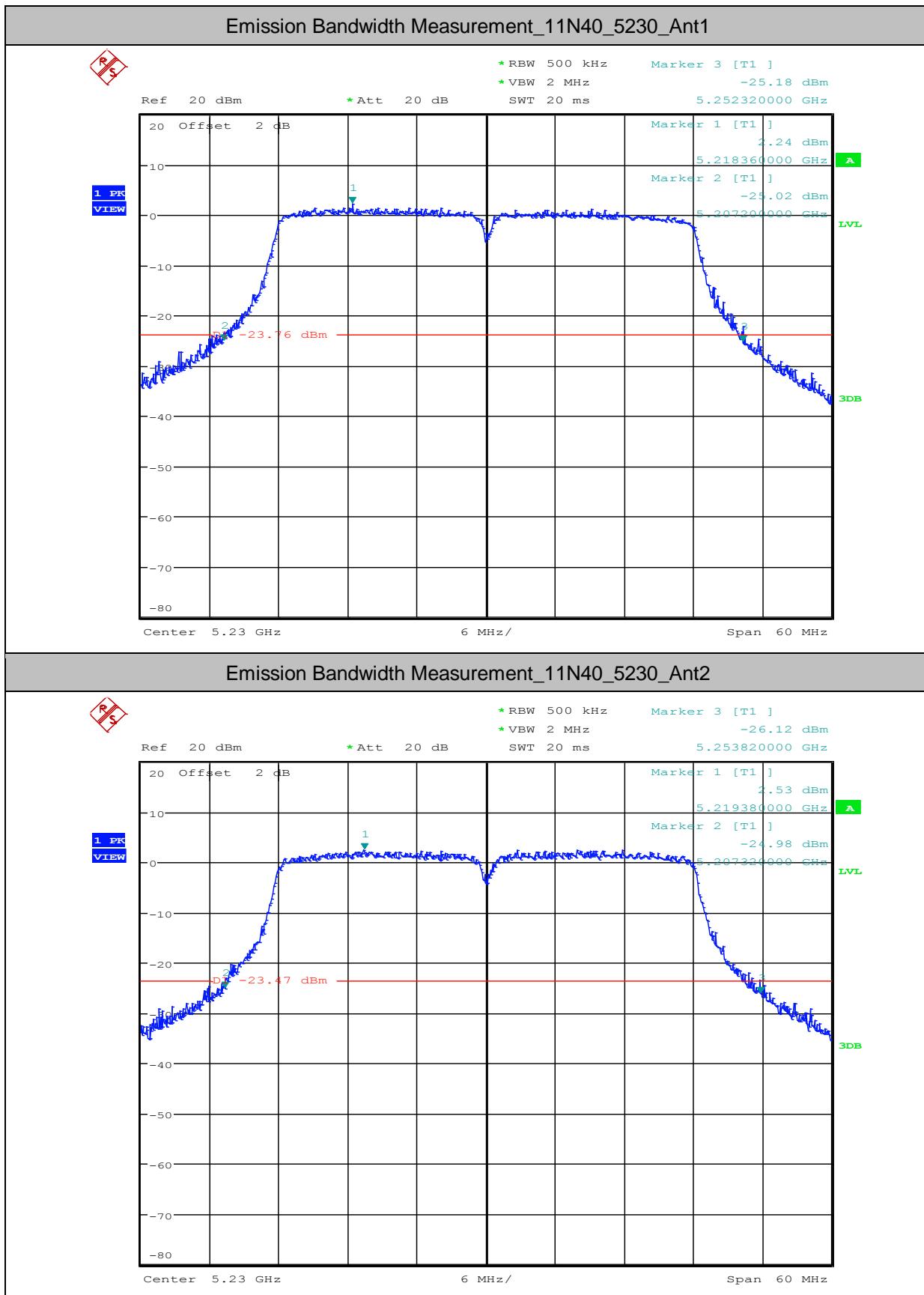


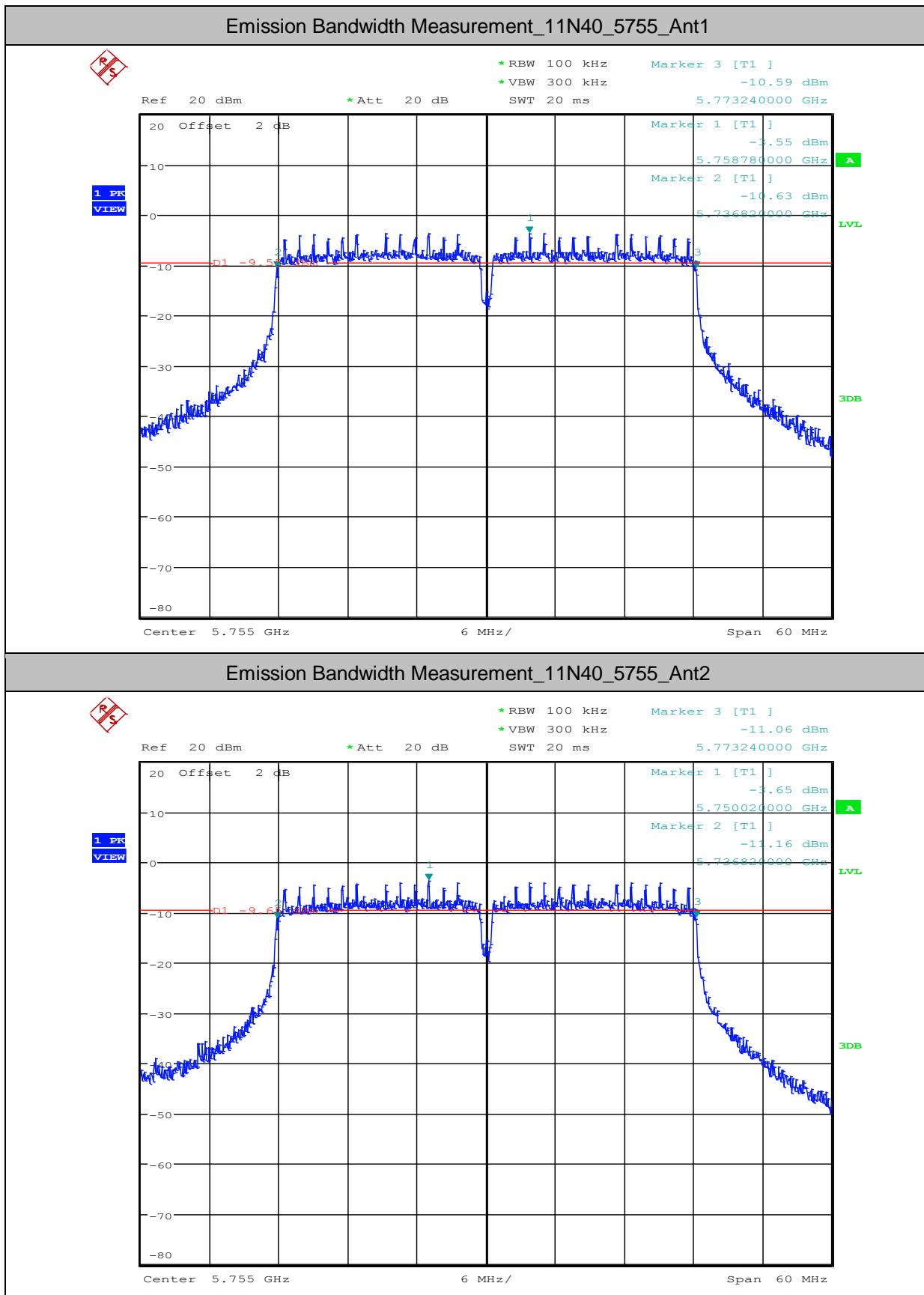


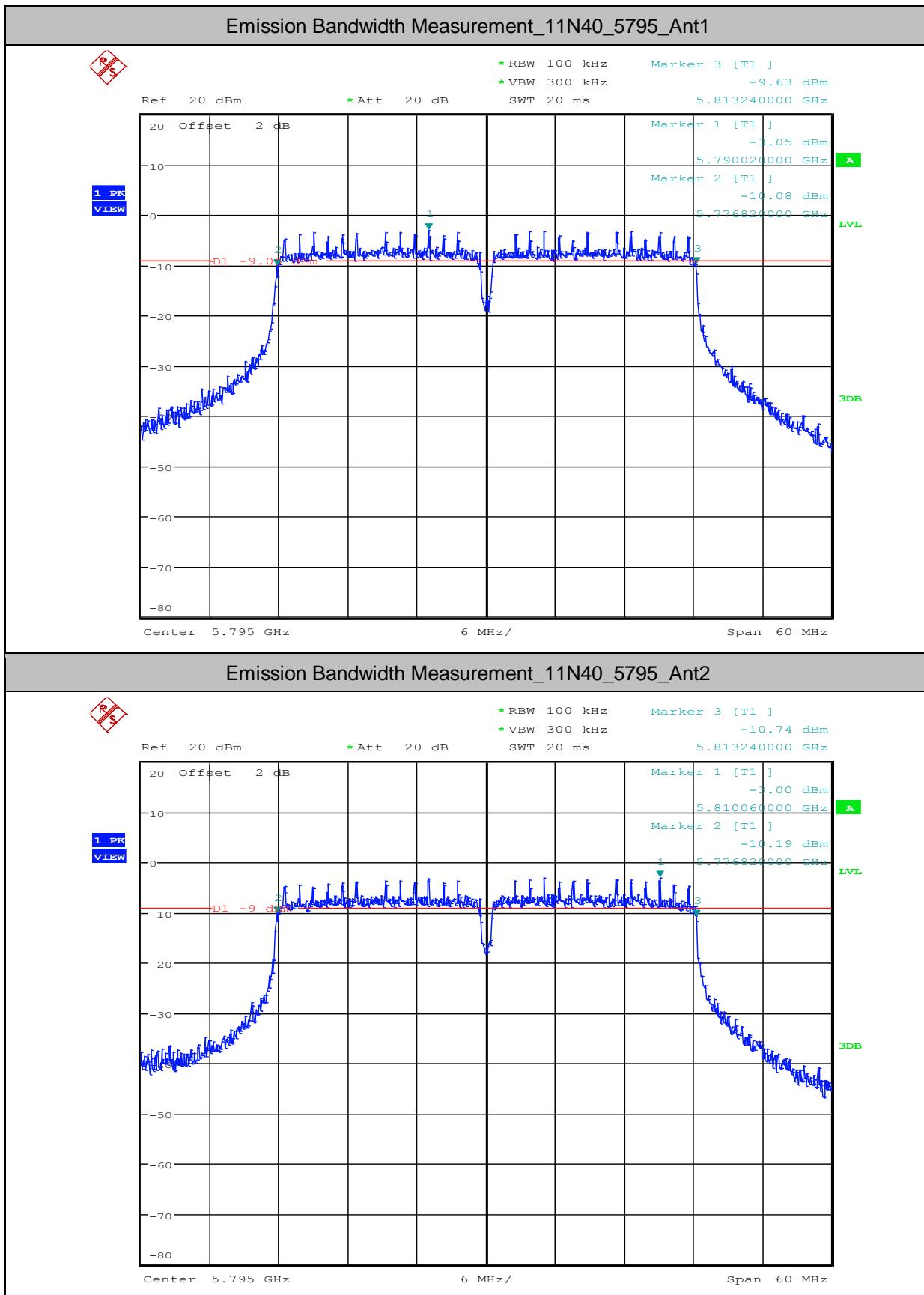


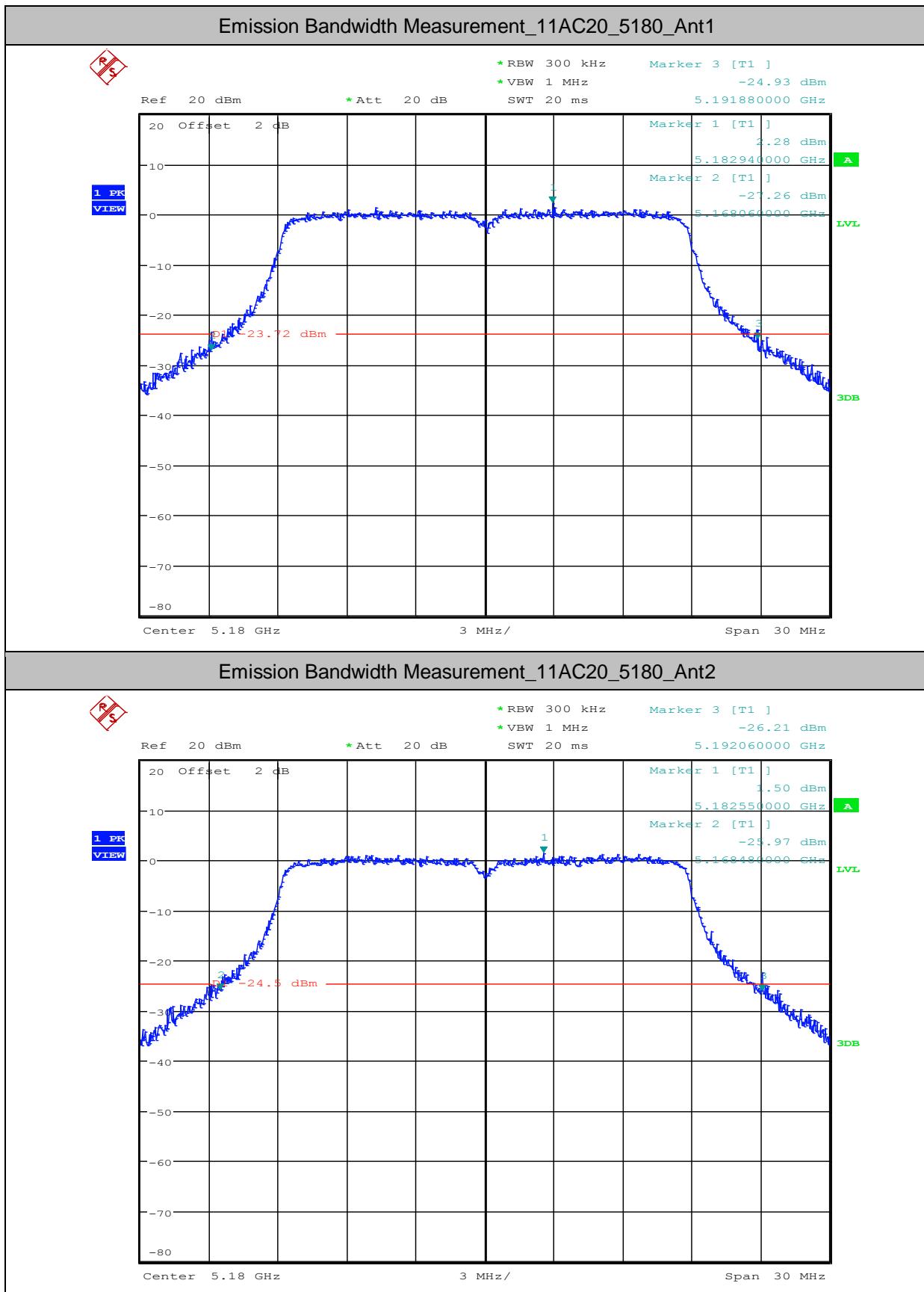


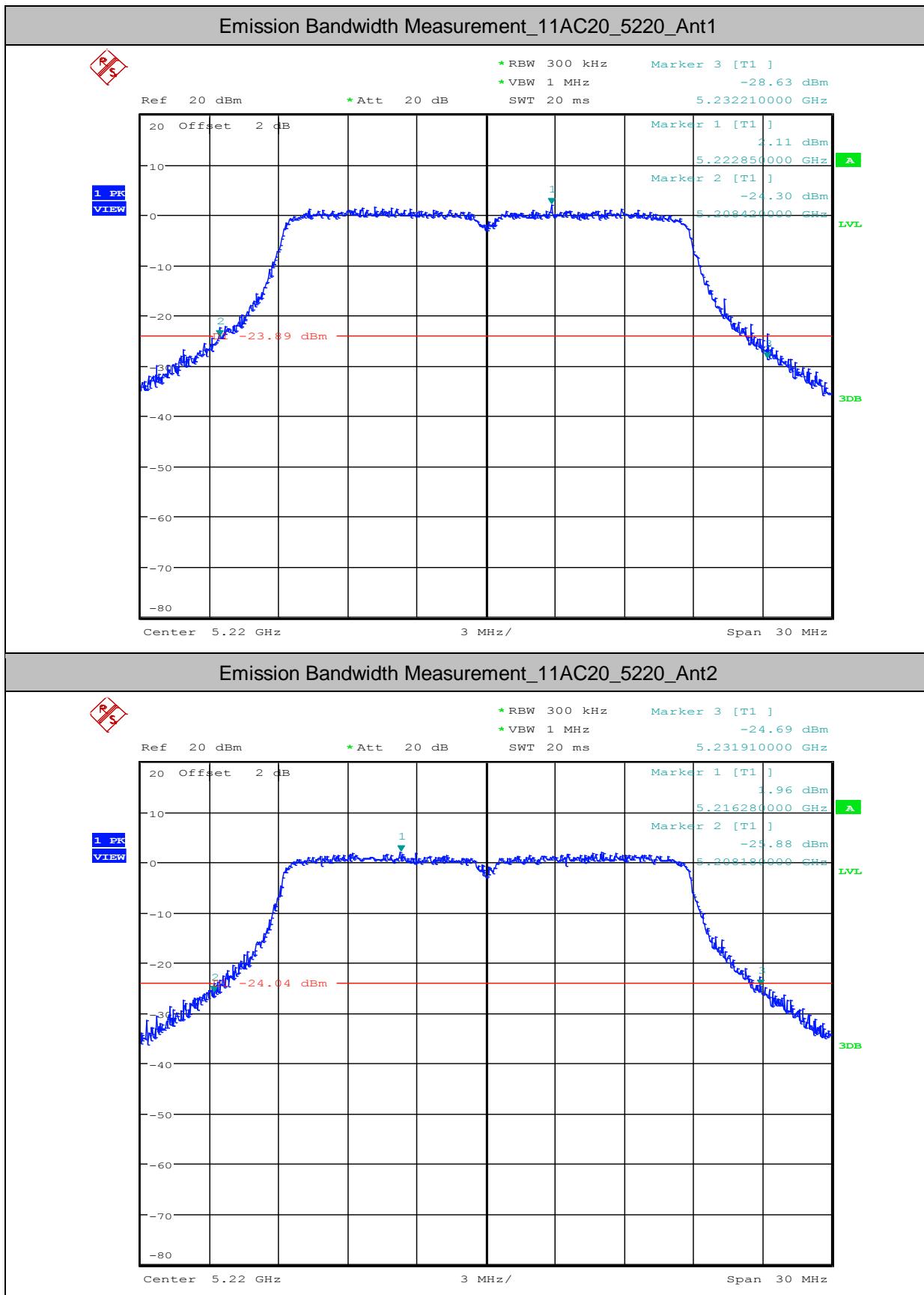


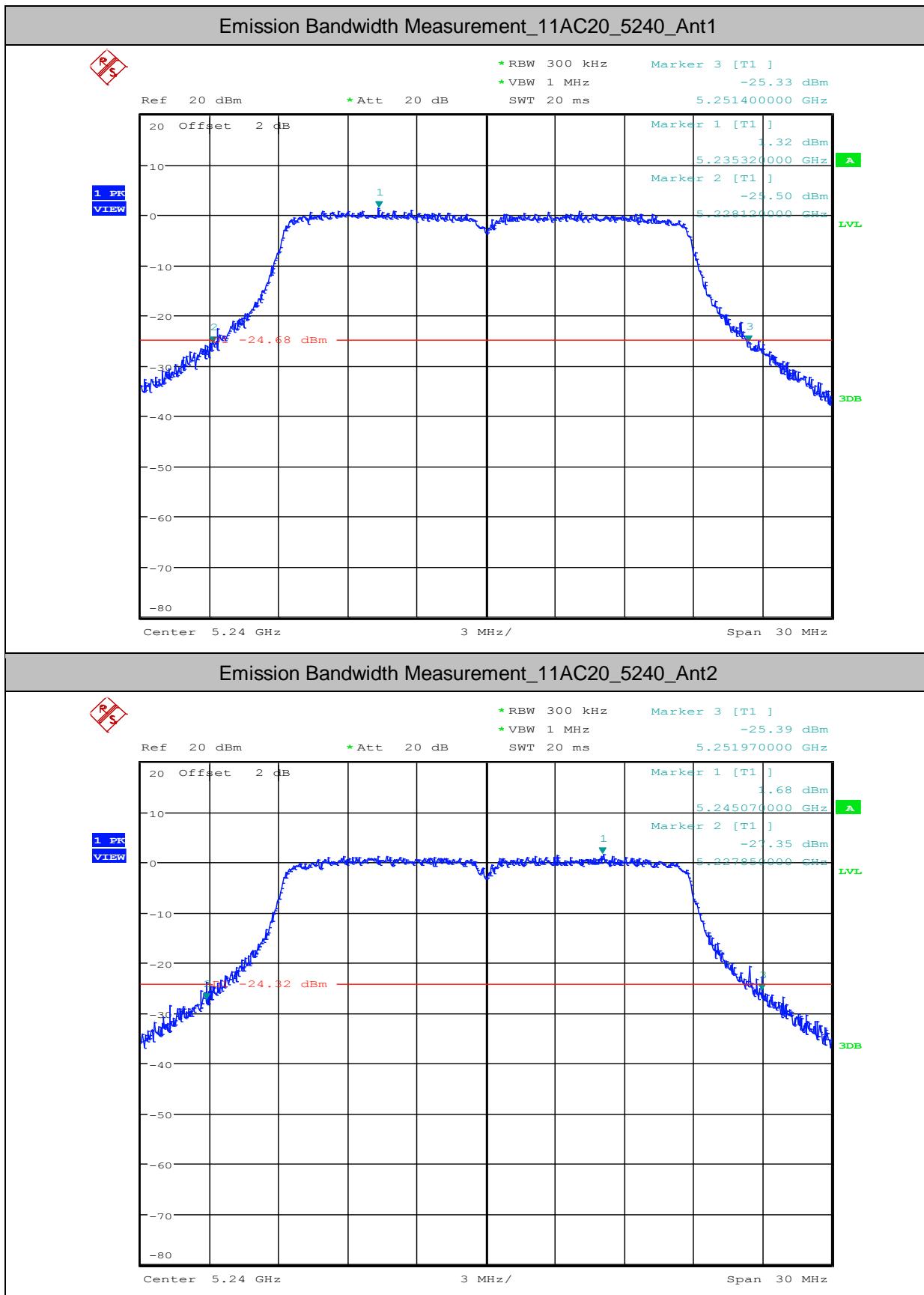


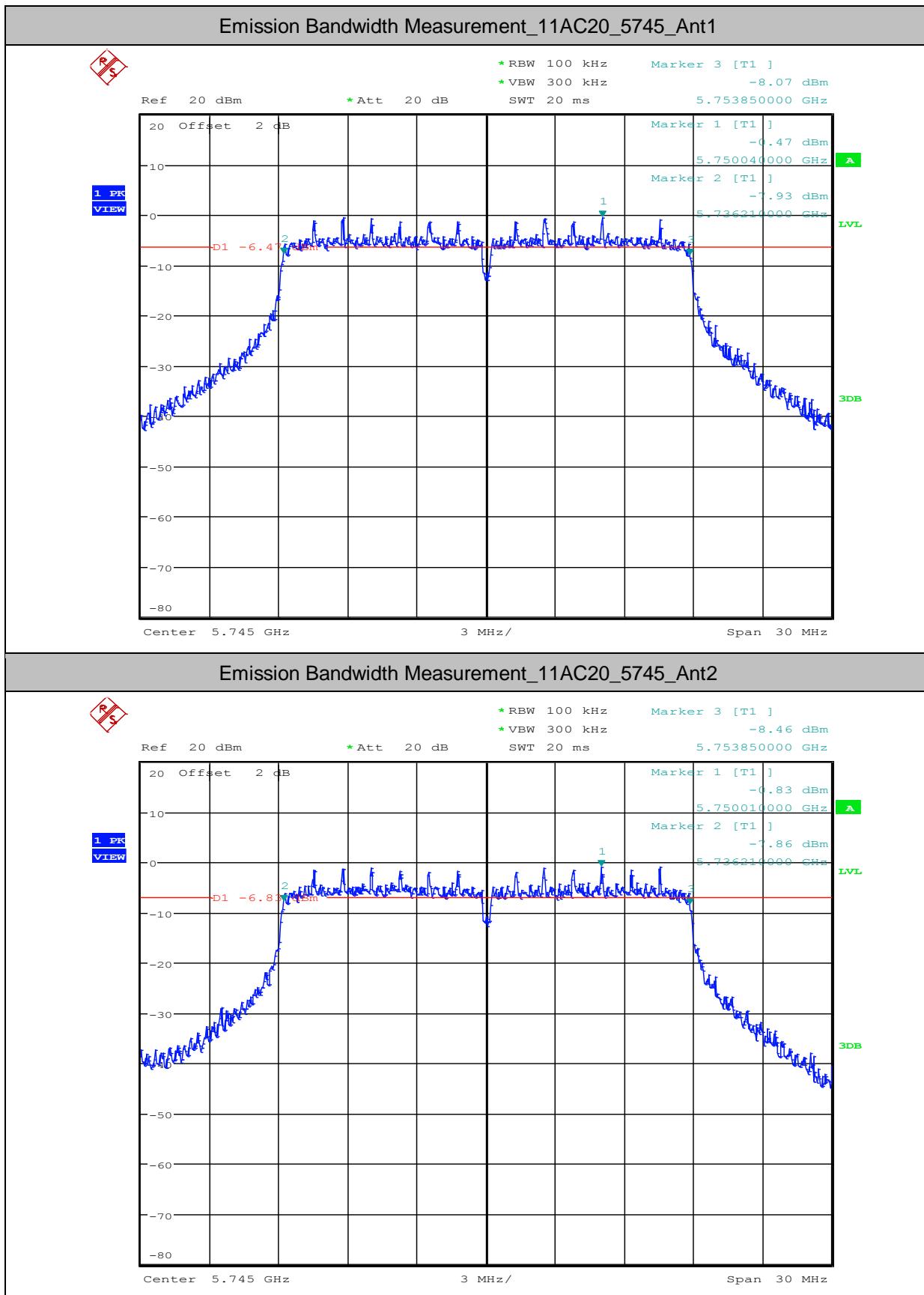


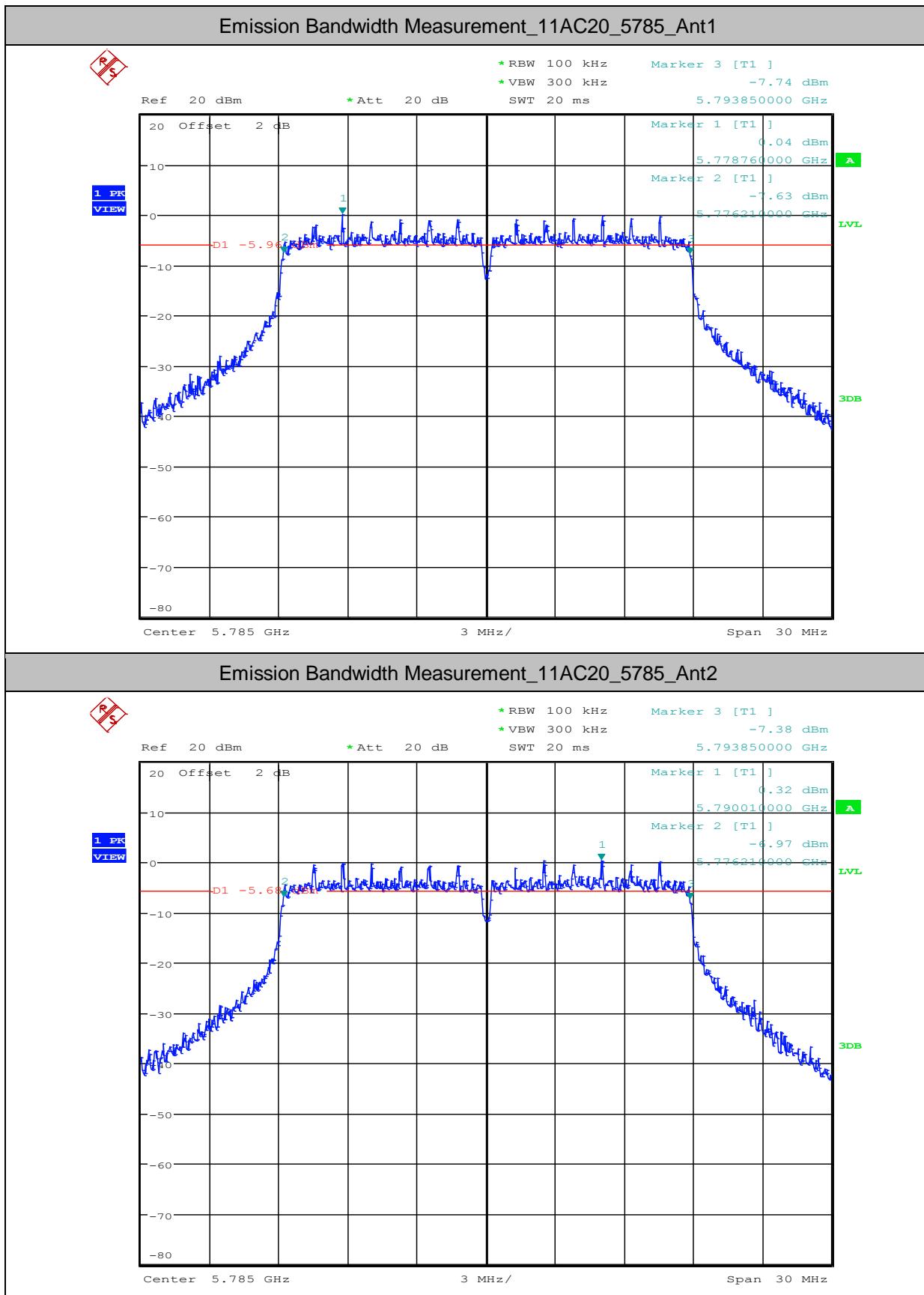


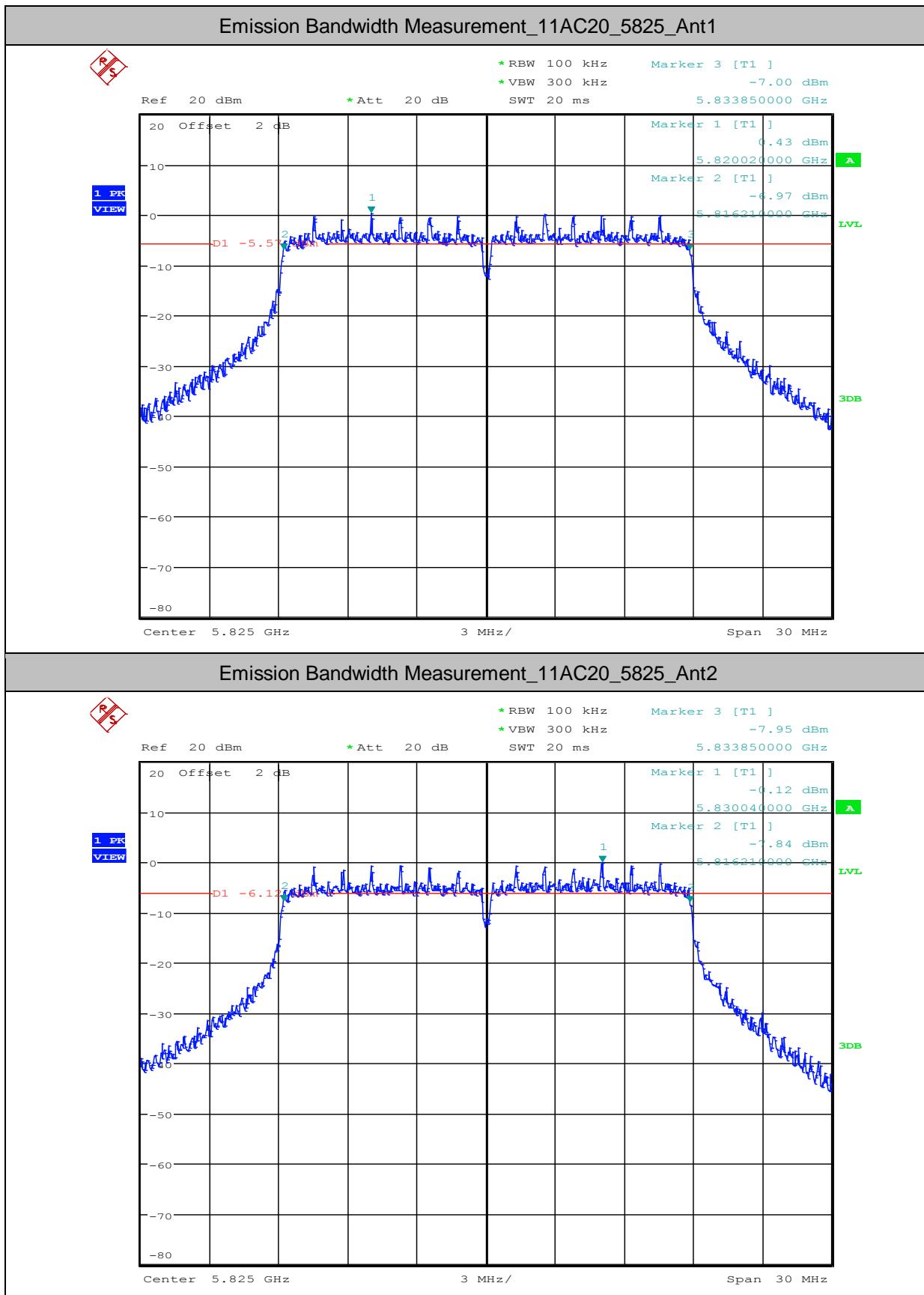


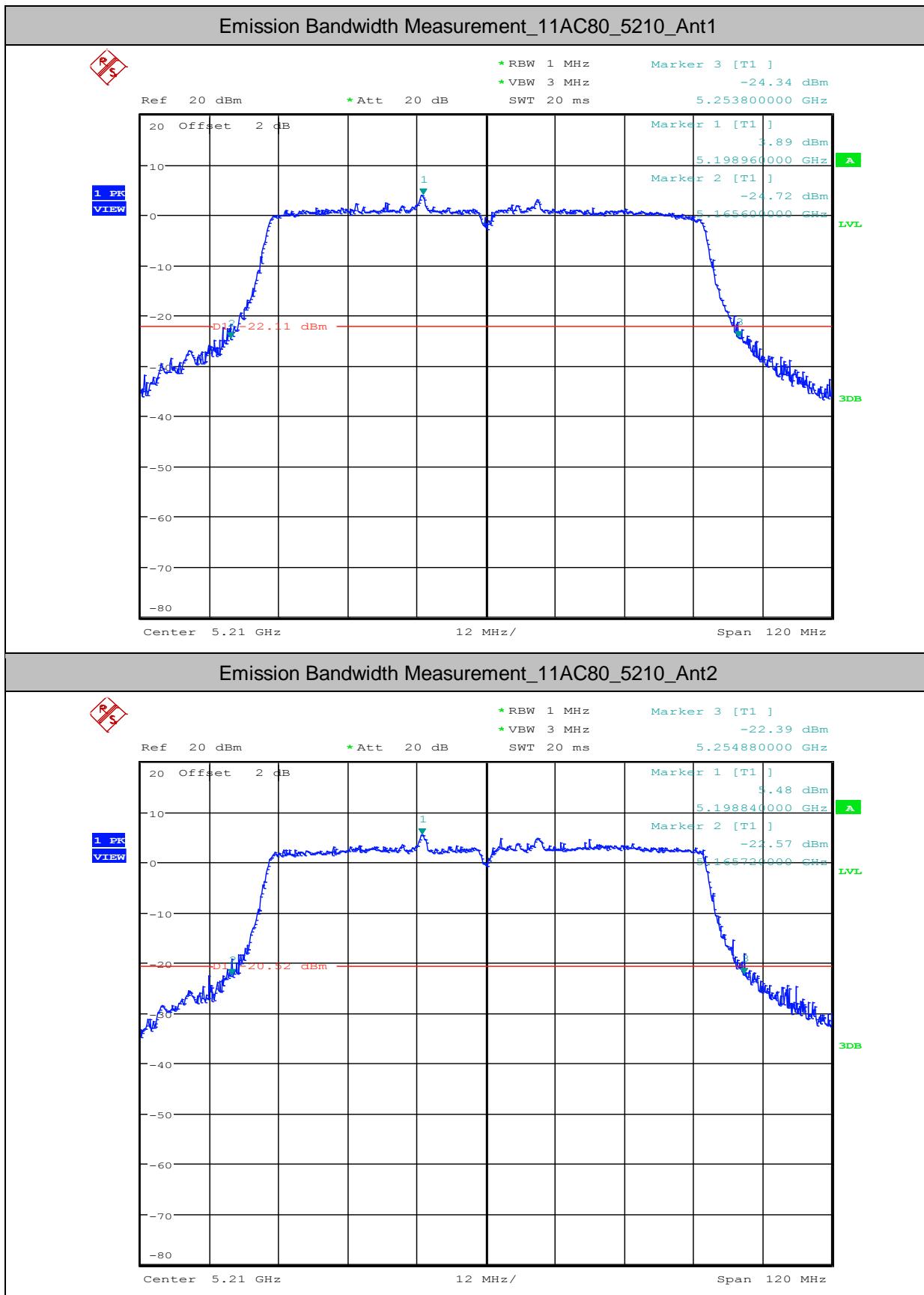


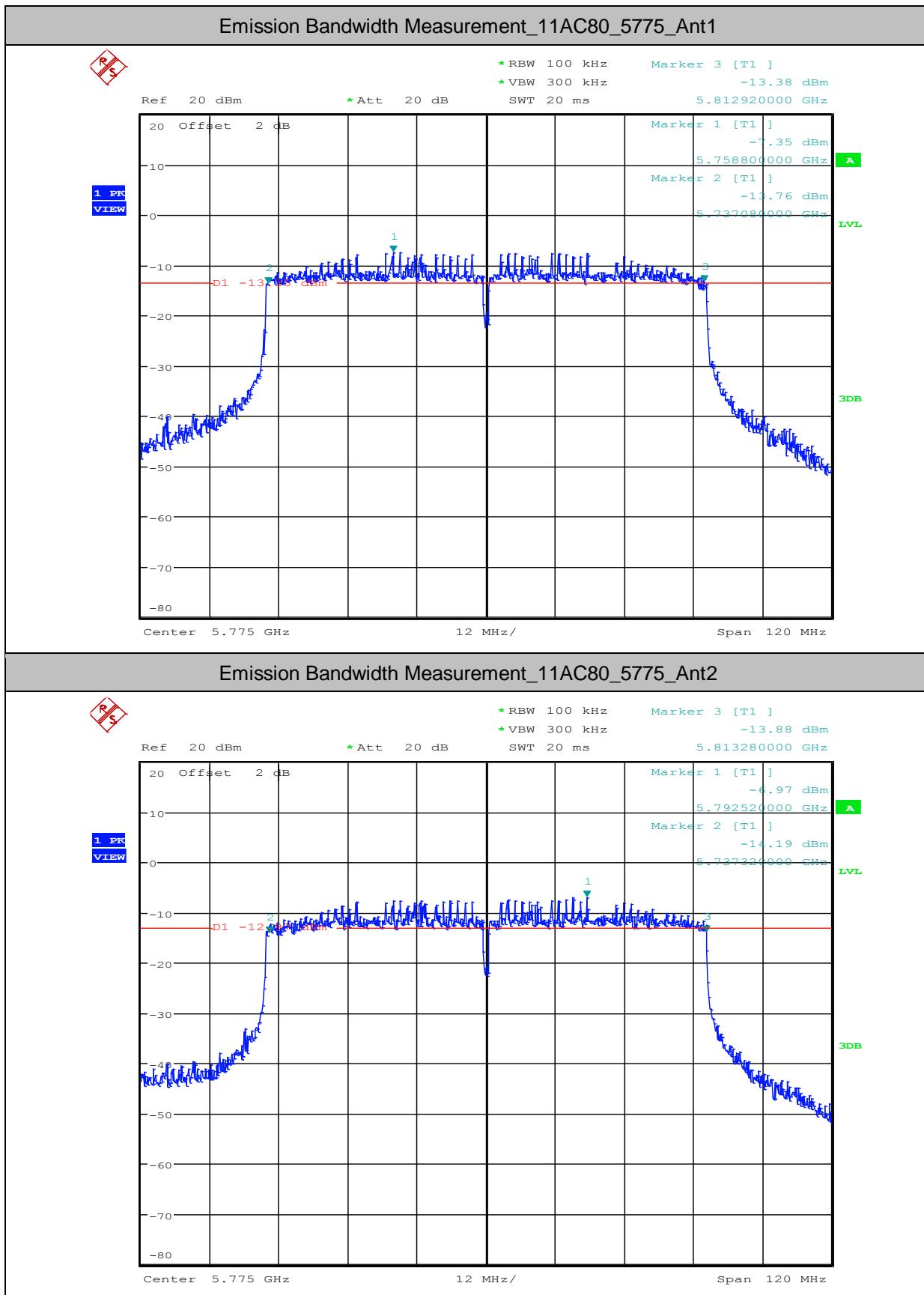


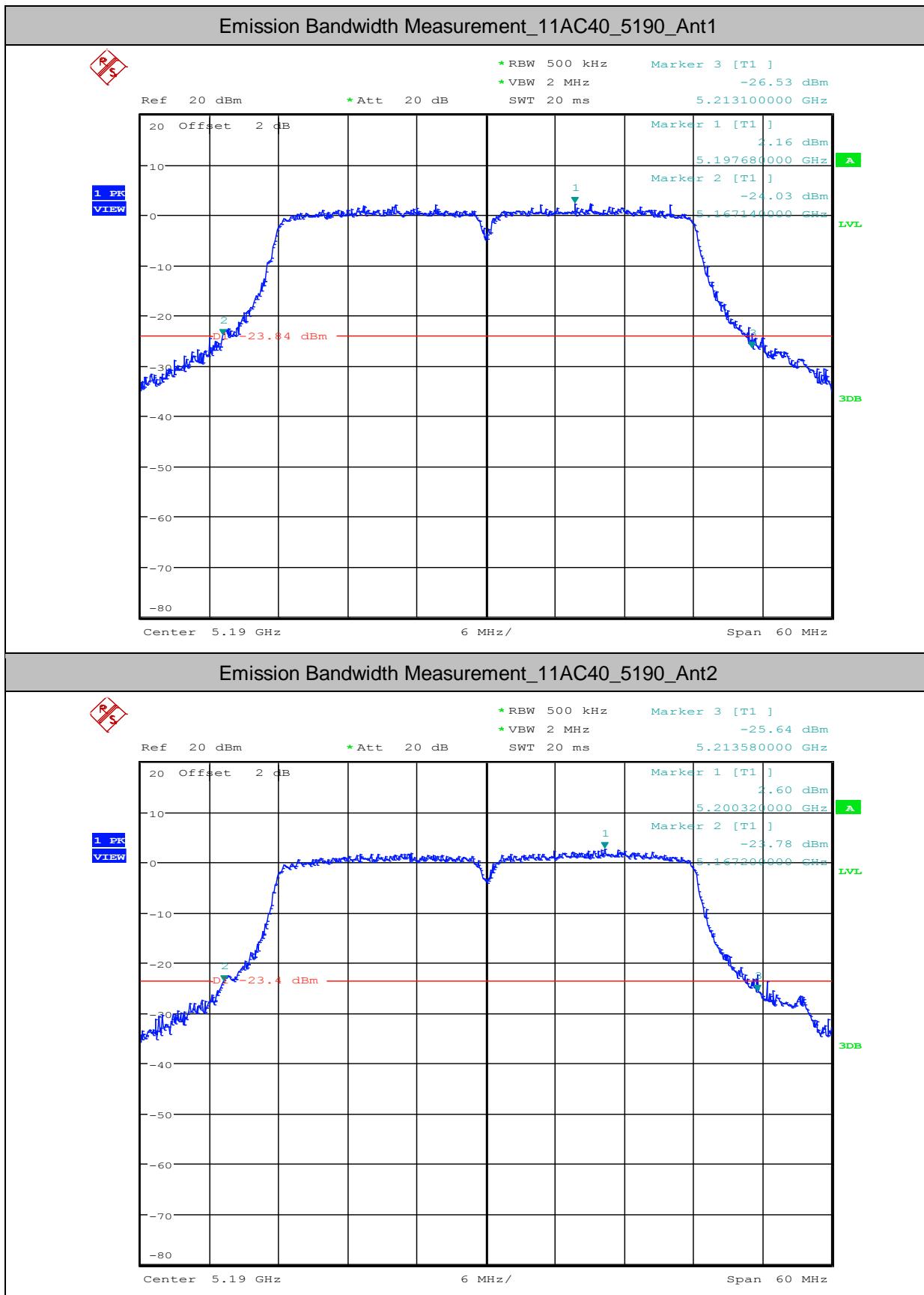


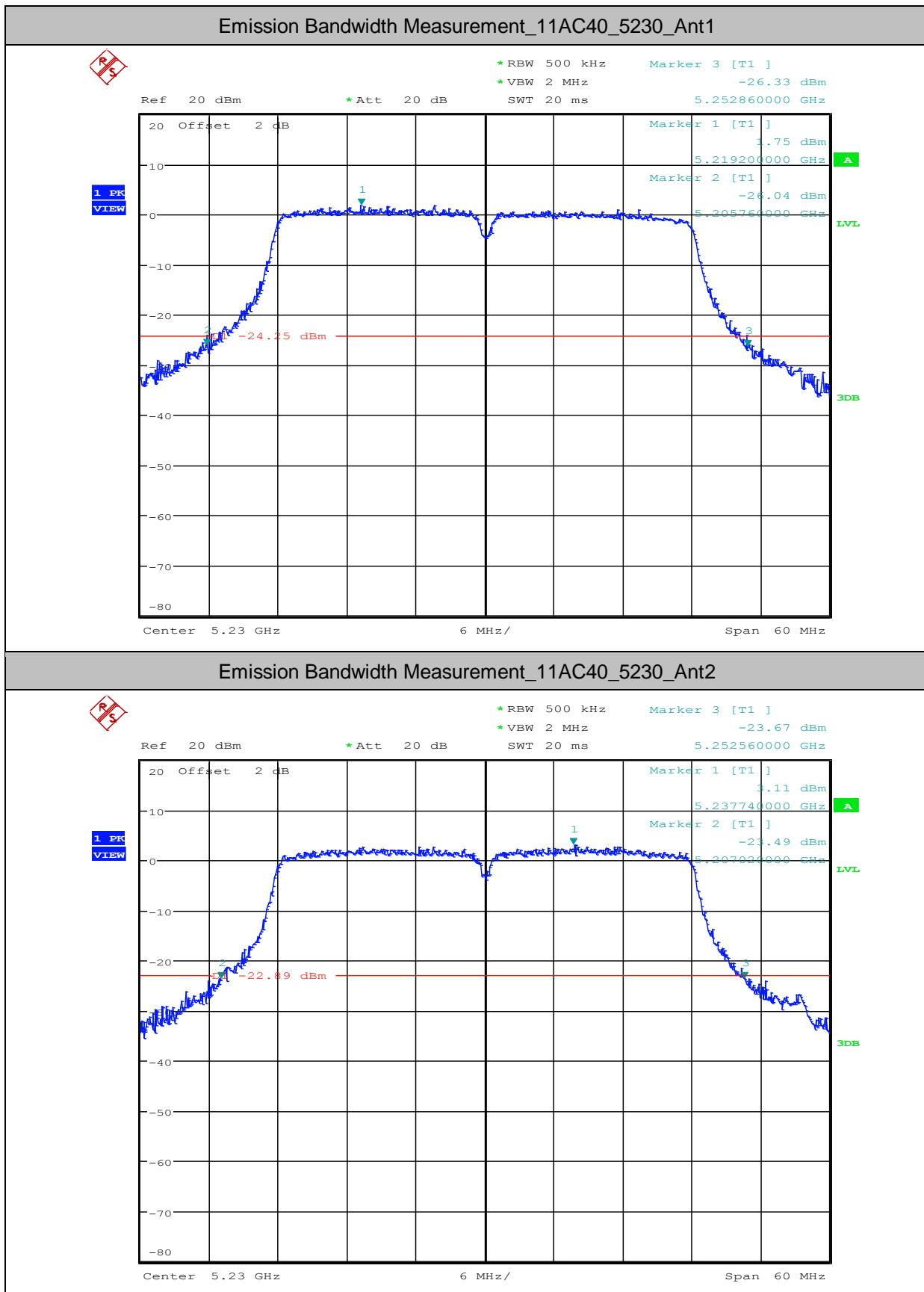


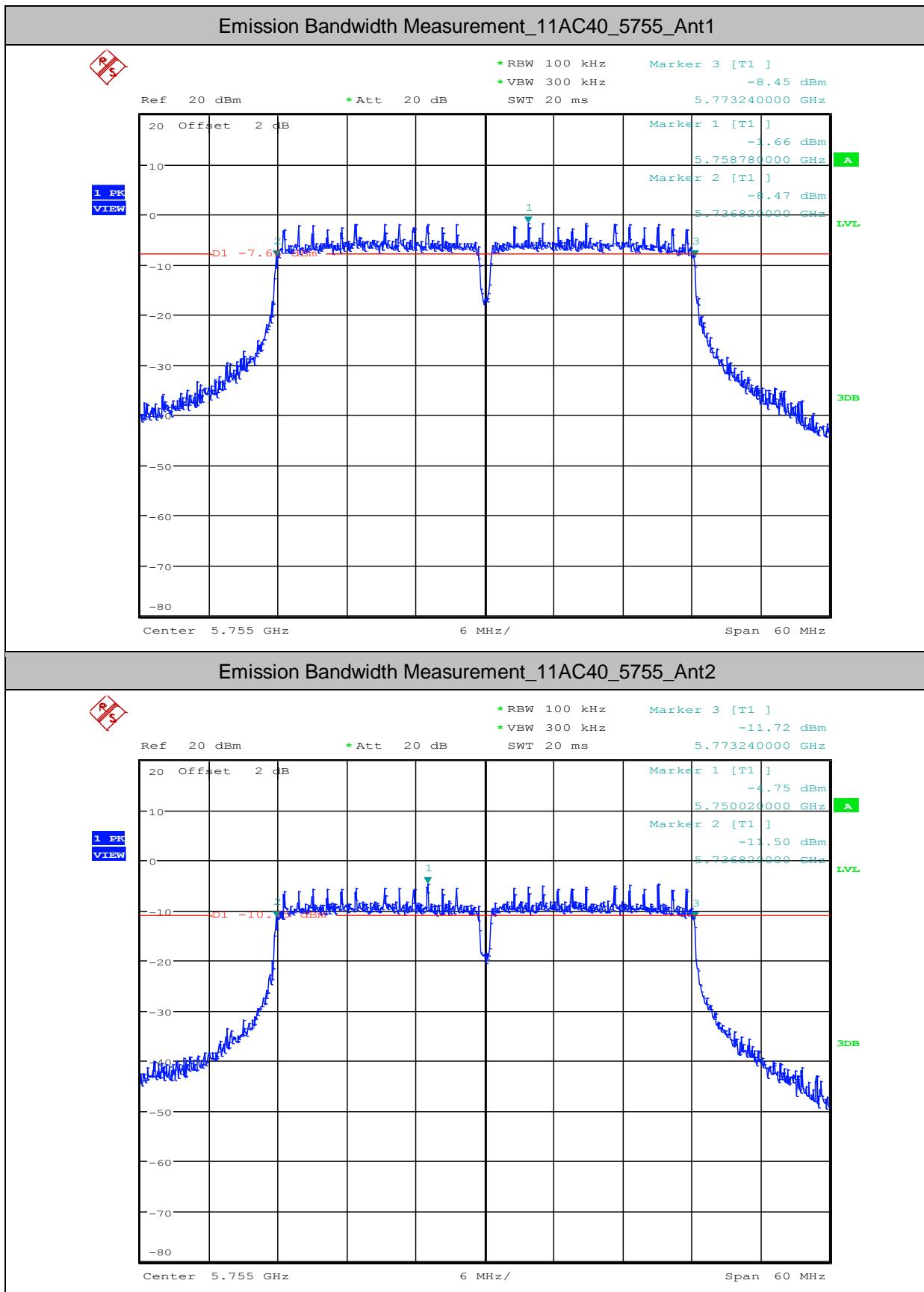


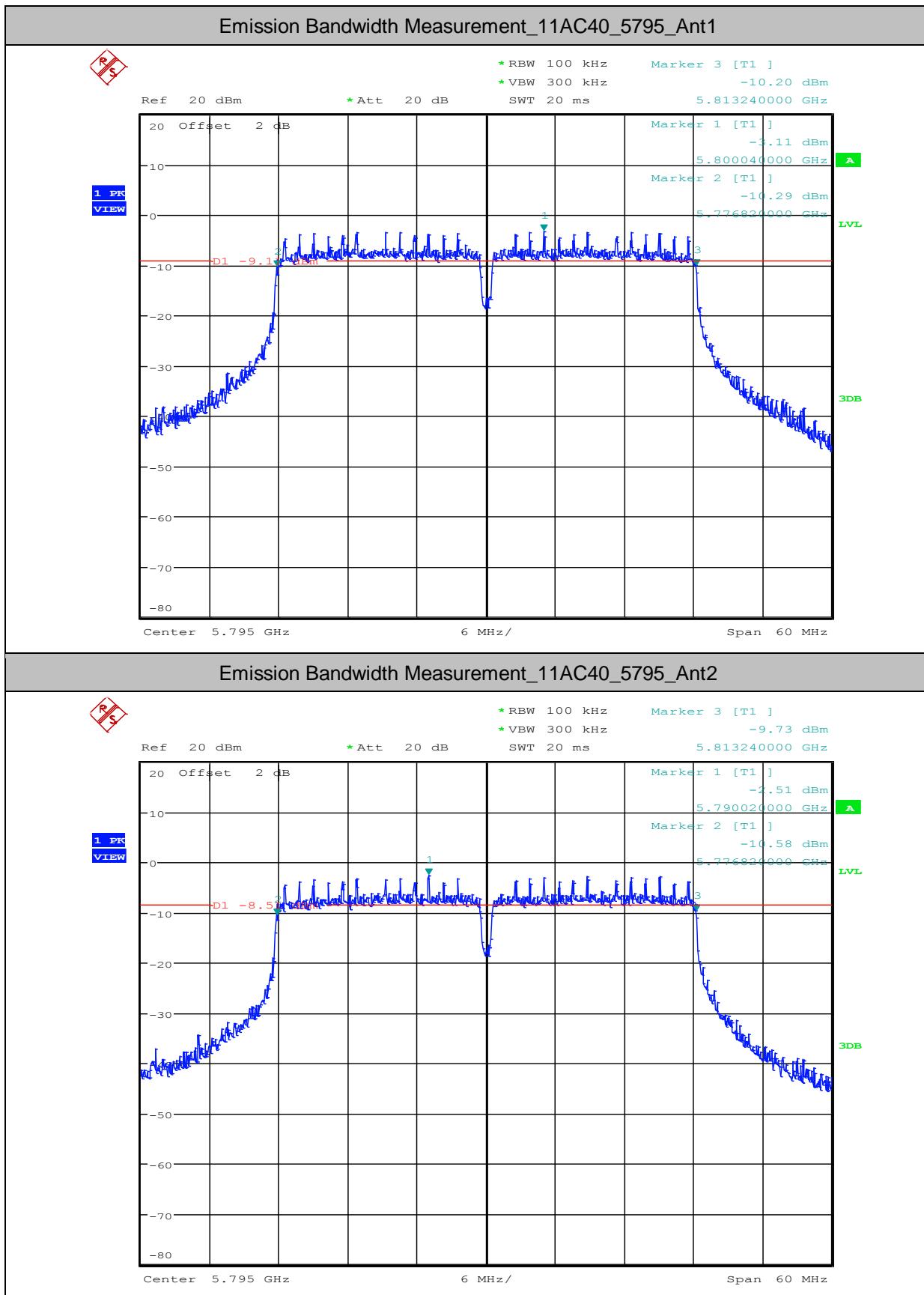














2.Occupied Bandwidth Measurement

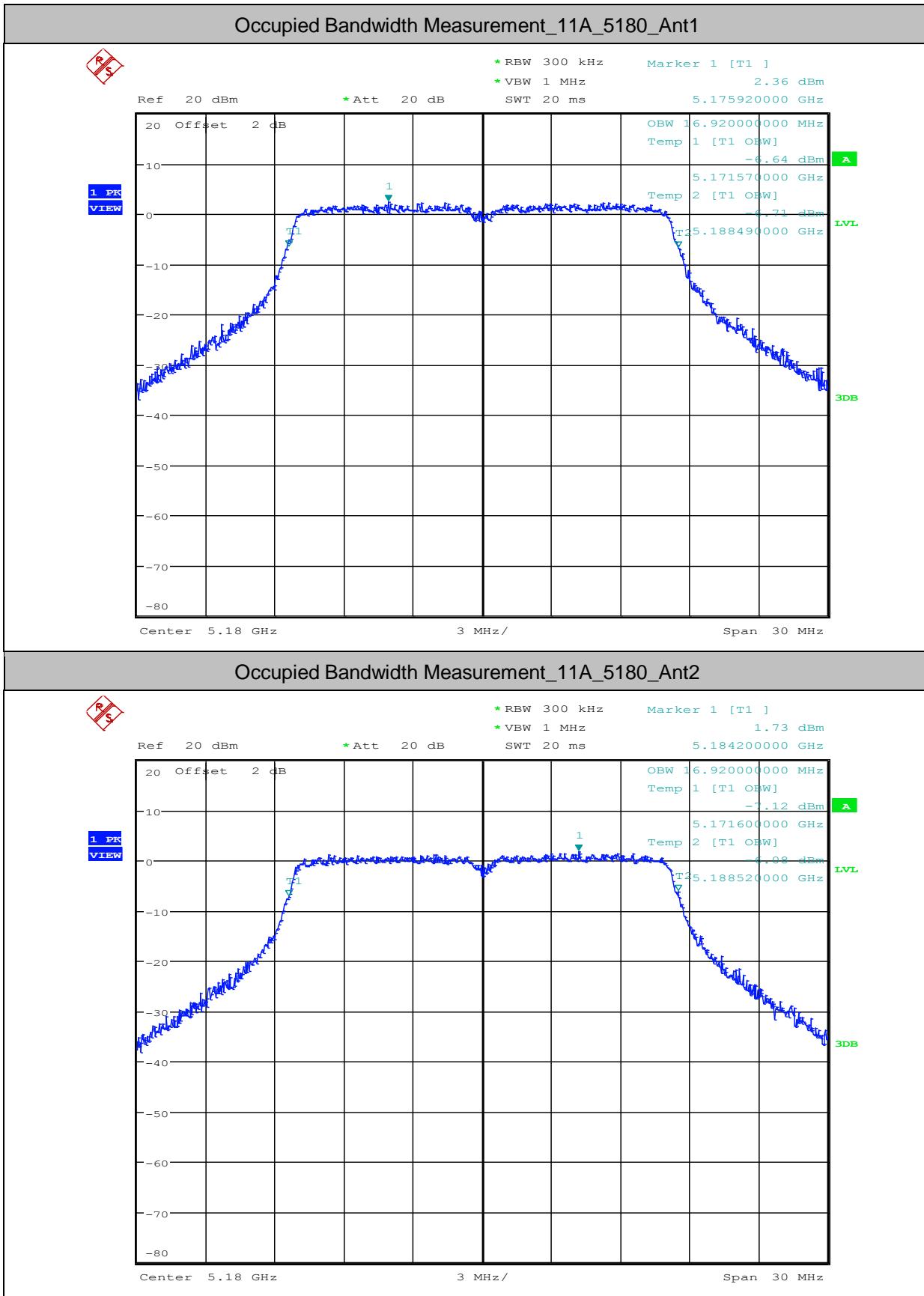
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11A	5180	Ant1	16.920	---	PASS
11A	5180	Ant2	16.920	---	PASS
11A	5220	Ant1	16.860	---	PASS
11A	5220	Ant2	16.920	---	PASS
11A	5240	Ant1	16.890	---	PASS
11A	5240	Ant2	16.920	---	PASS
11A	5745	Ant1	16.920	---	PASS
11A	5745	Ant2	16.860	---	PASS
11A	5785	Ant1	16.920	---	PASS
11A	5785	Ant2	16.860	---	PASS
11A	5825	Ant1	16.920	---	PASS
11A	5825	Ant2	16.890	---	PASS
11N20	5180	Ant1	18.000	---	PASS
11N20	5180	Ant2	17.940	---	PASS
11N20	5220	Ant1	17.970	---	PASS
11N20	5220	Ant2	17.880	---	PASS
11N20	5240	Ant1	17.970	---	PASS
11N20	5240	Ant2	17.910	---	PASS
11N20	5745	Ant1	18.000	---	PASS
11N20	5745	Ant2	17.940	---	PASS
11N20	5785	Ant1	18.000	---	PASS
11N20	5785	Ant2	17.910	---	PASS
11N20	5825	Ant1	18.000	---	PASS
11N20	5825	Ant2	17.940	---	PASS
11N40	5190	Ant1	36.720	---	PASS
11N40	5190	Ant2	36.660	---	PASS
11N40	5230	Ant1	36.720	---	PASS
11N40	5230	Ant2	36.600	---	PASS
11N40	5755	Ant1	36.660	---	PASS
11N40	5755	Ant2	36.540	---	PASS
11N40	5795	Ant1	36.660	---	PASS
11N40	5795	Ant2	36.540	---	PASS

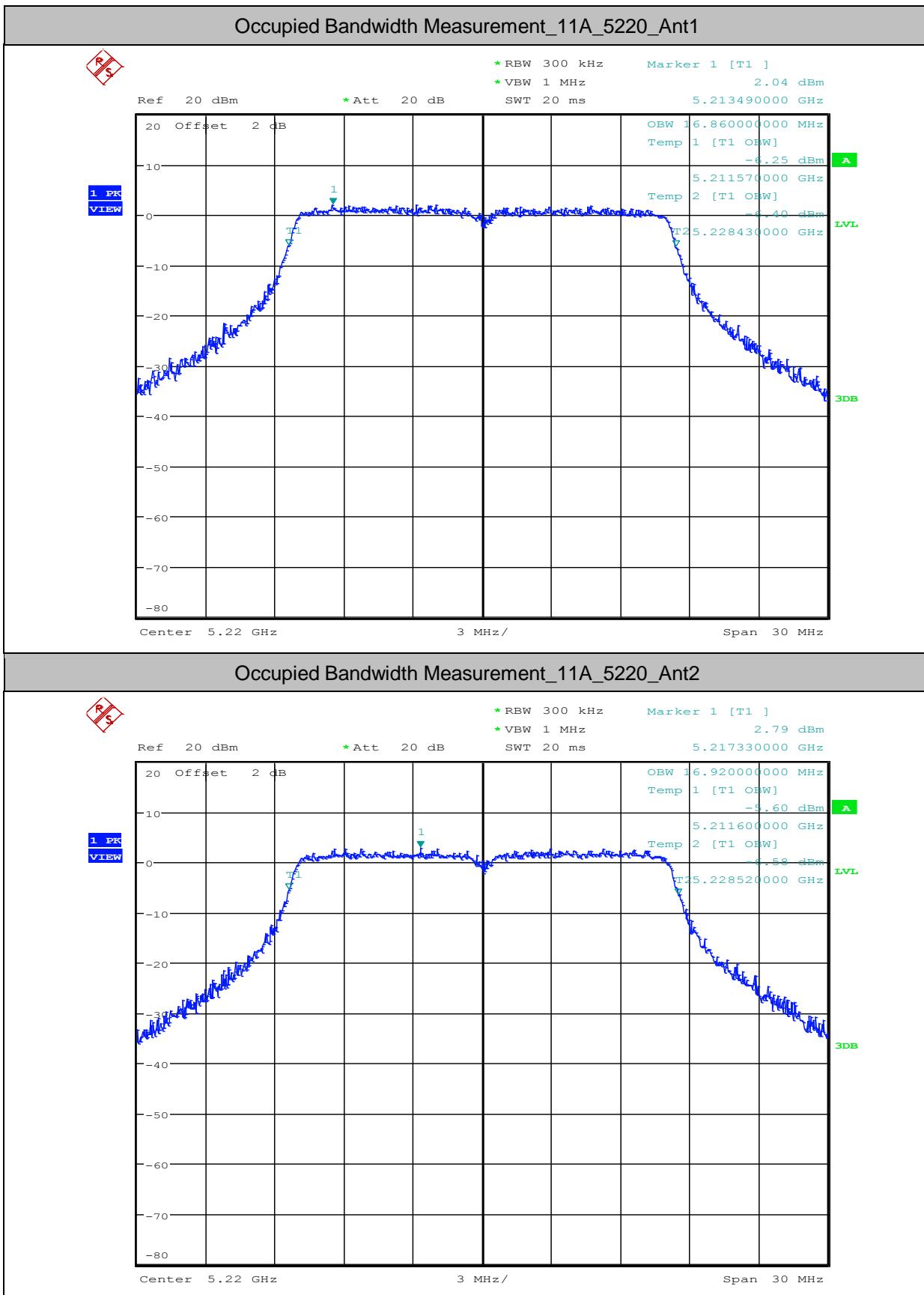


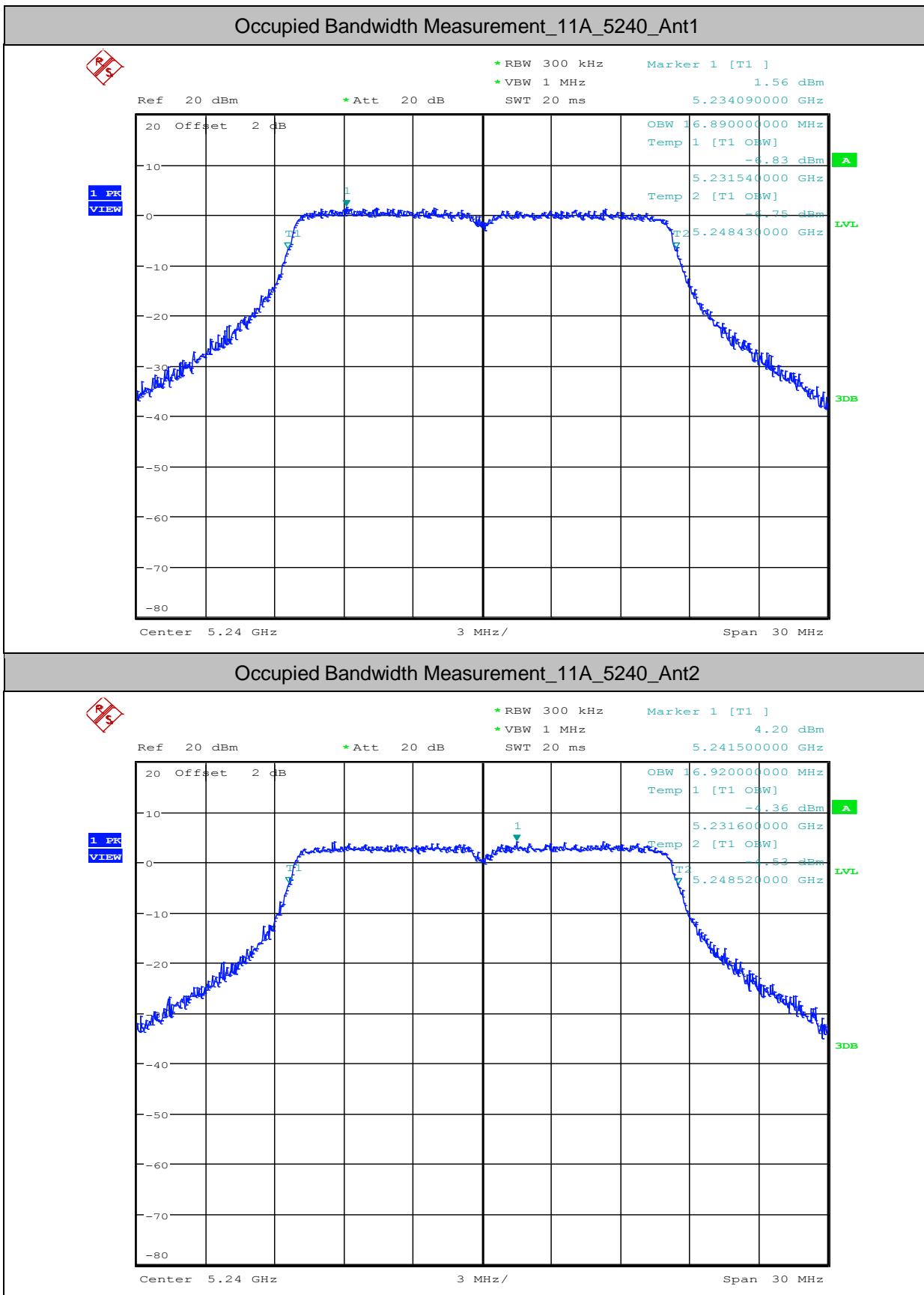
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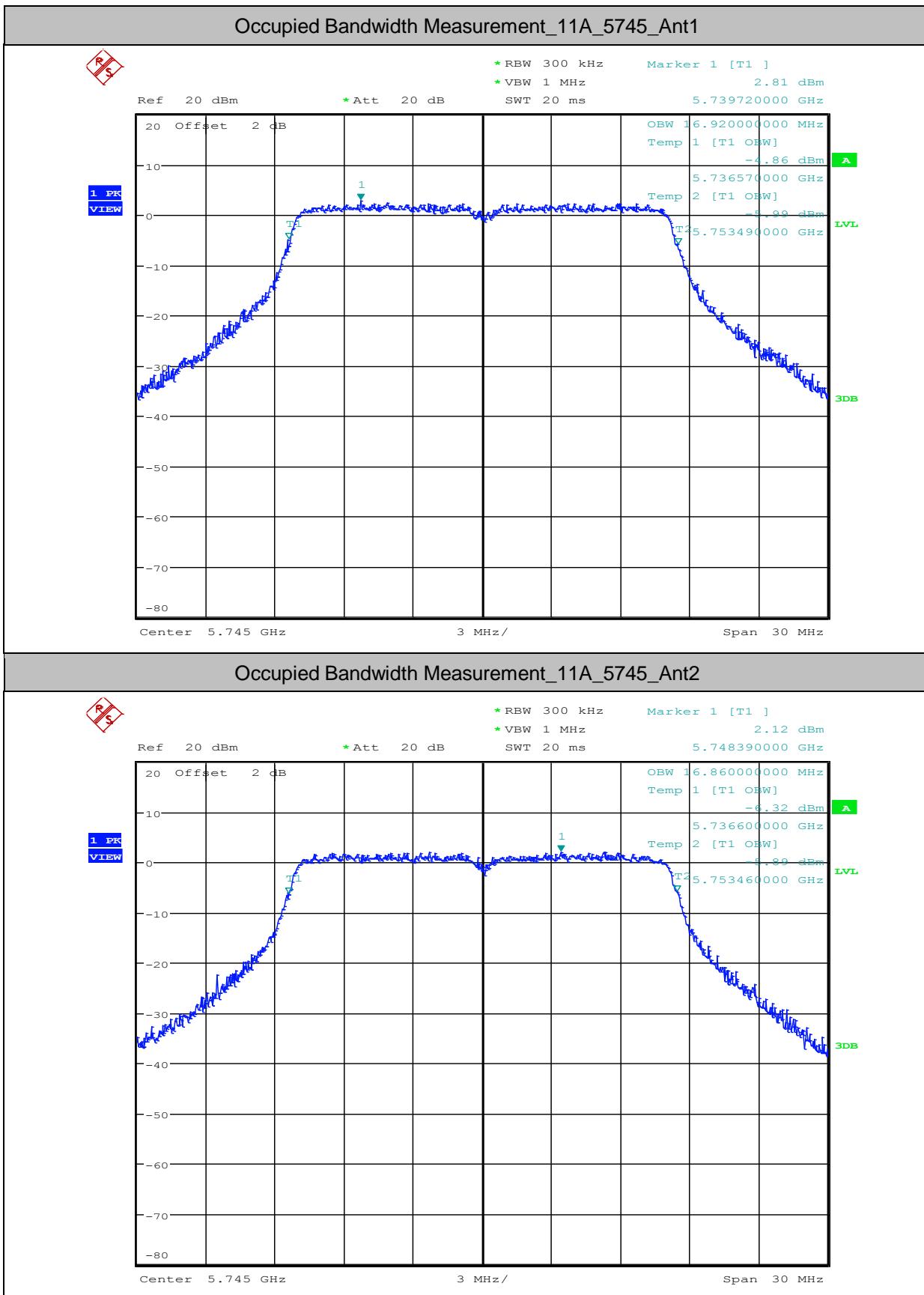
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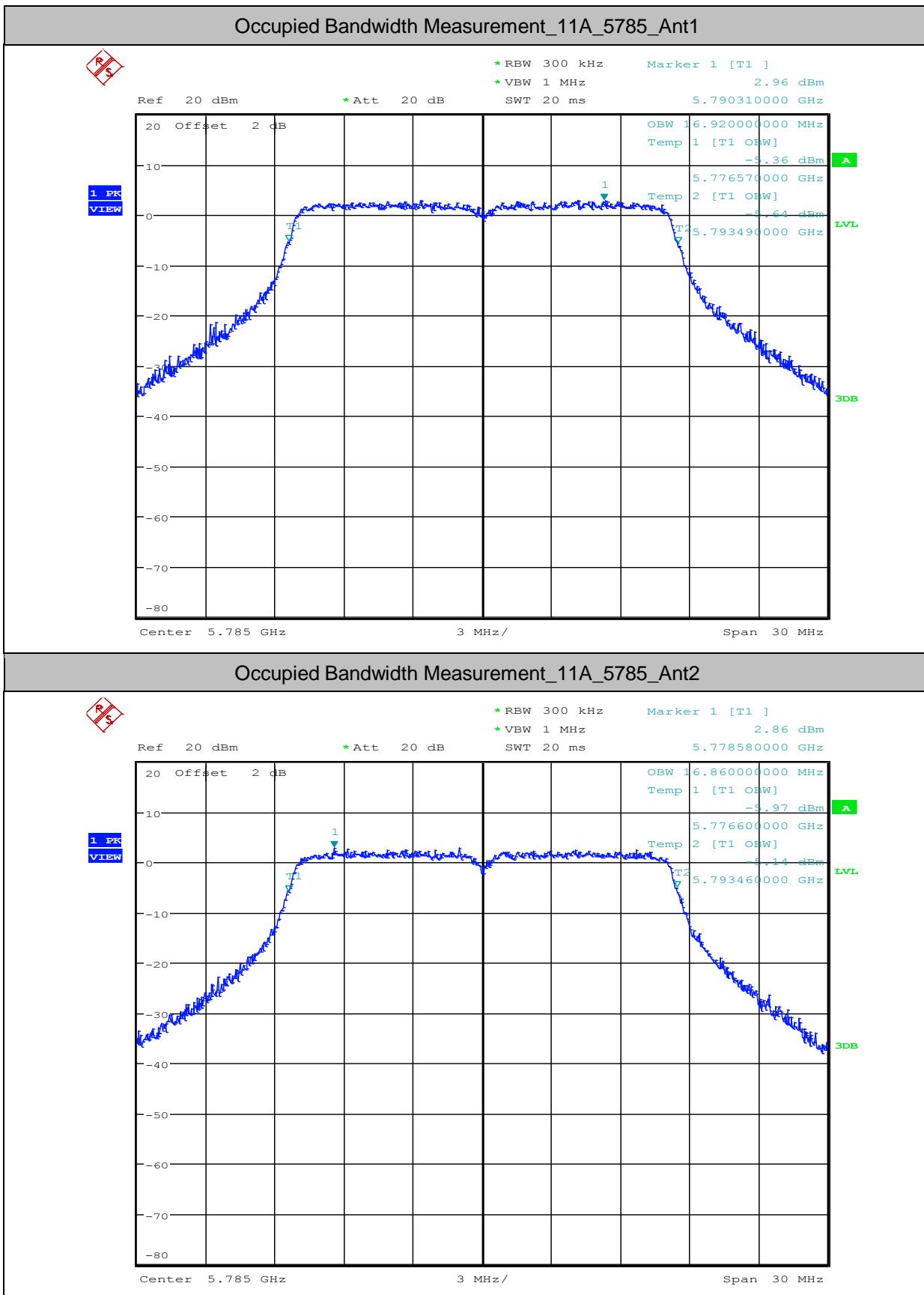
11AC20	5180	Ant1	18.000	---	PASS
11AC20	5180	Ant2	17.970	---	PASS
11AC20	5220	Ant1	18.000	---	PASS
11AC20	5220	Ant2	17.940	---	PASS
11AC20	5240	Ant1	17.970	---	PASS
11AC20	5240	Ant2	17.910	---	PASS
11AC20	5745	Ant1	17.970	---	PASS
11AC20	5745	Ant2	17.940	---	PASS
11AC20	5785	Ant1	17.970	---	PASS
11AC20	5785	Ant2	17.910	---	PASS
11AC20	5825	Ant1	18.000	---	PASS
11AC20	5825	Ant2	17.940	---	PASS
11AC80	5210	Ant1	76.080	---	PASS
11AC80	5210	Ant2	76.200	---	PASS
11AC80	5775	Ant1	76.200	---	PASS
11AC80	5775	Ant2	75.960	---	PASS
11AC40	5190	Ant1	36.720	---	PASS
11AC40	5190	Ant2	36.600	---	PASS
11AC40	5230	Ant1	36.720	---	PASS
11AC40	5230	Ant2	36.540	---	PASS
11AC40	5755	Ant1	36.660	---	PASS
11AC40	5755	Ant2	36.660	---	PASS
11AC40	5795	Ant1	36.660	---	PASS
11AC40	5795	Ant2	36.540	---	PASS

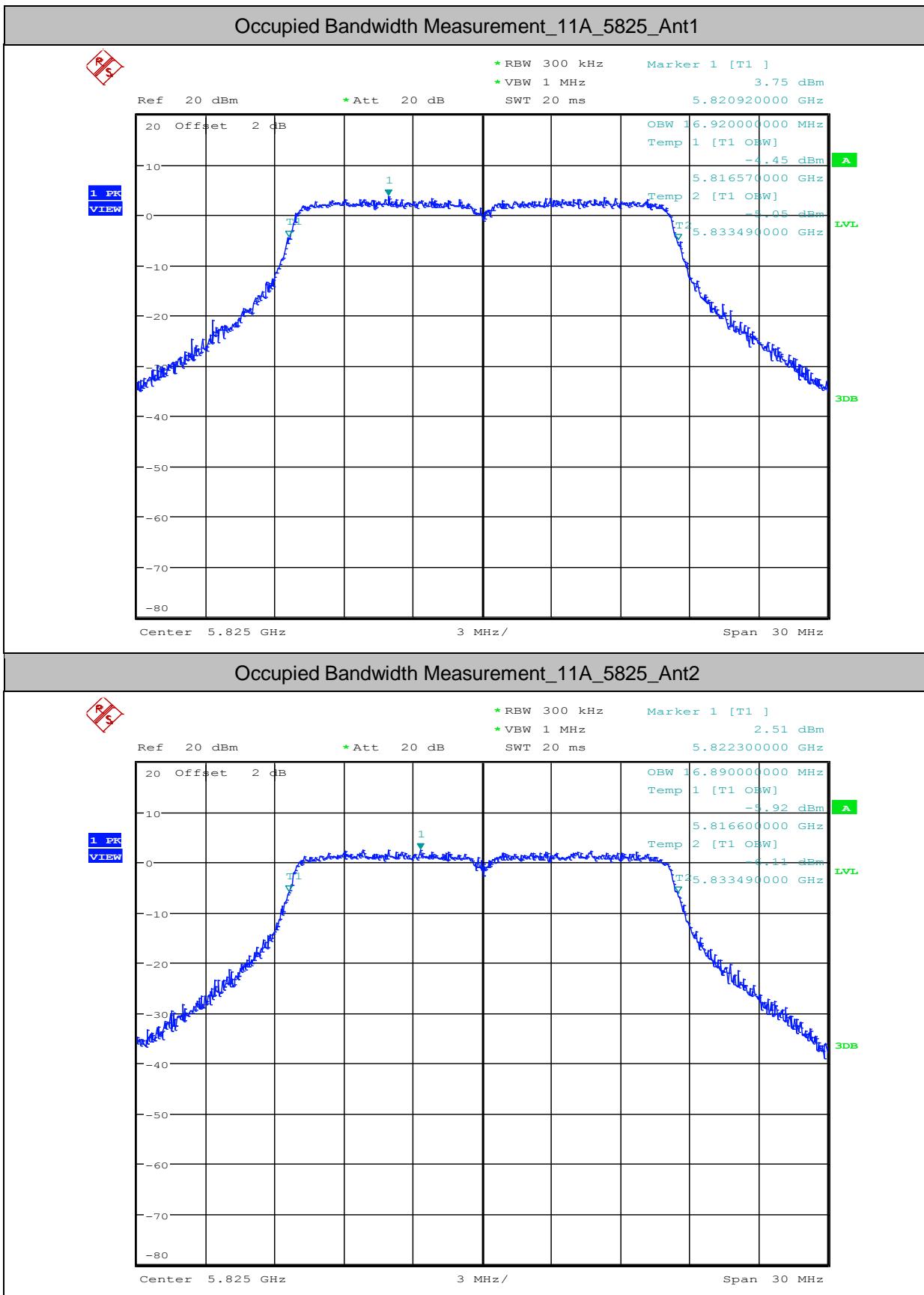


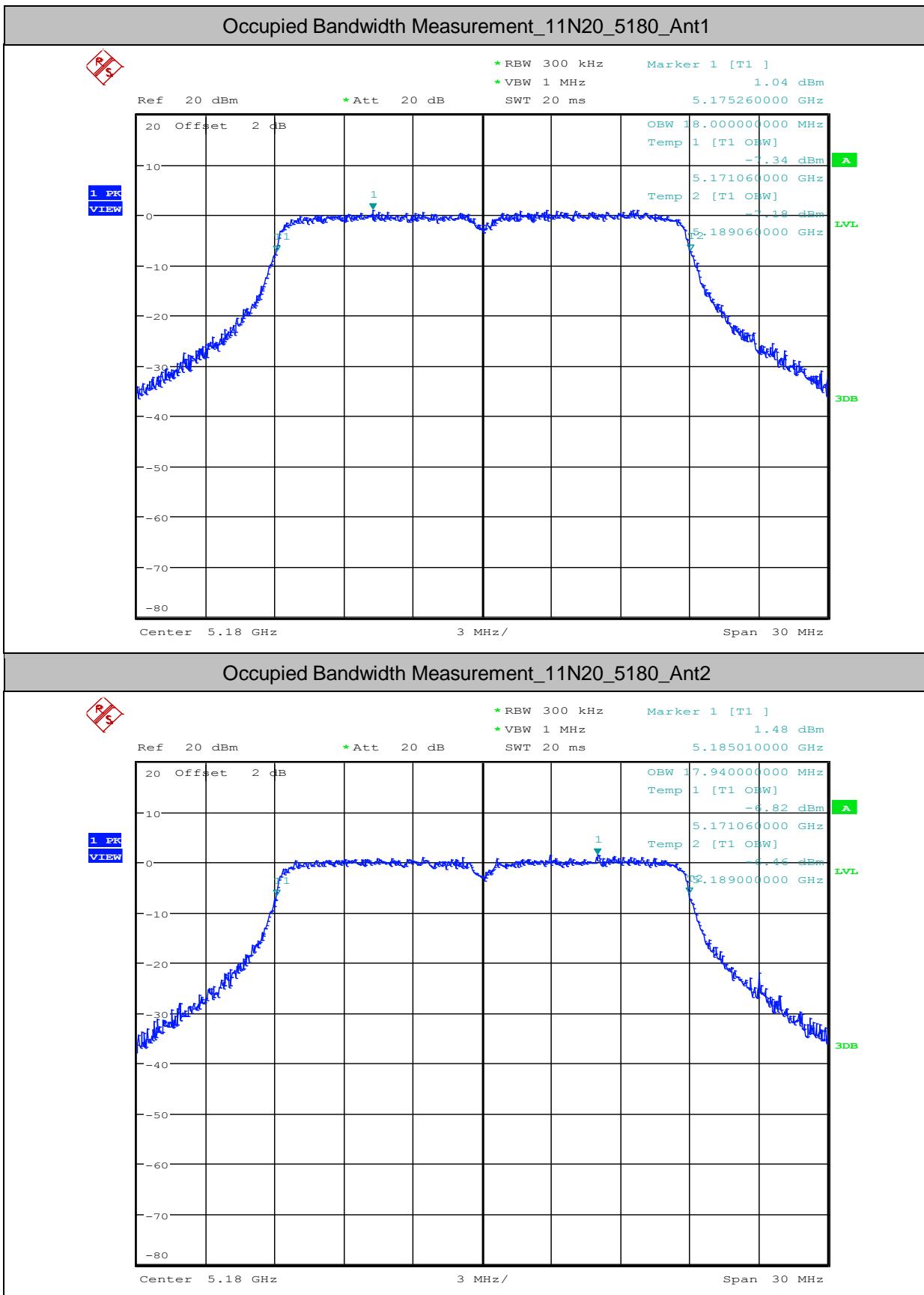


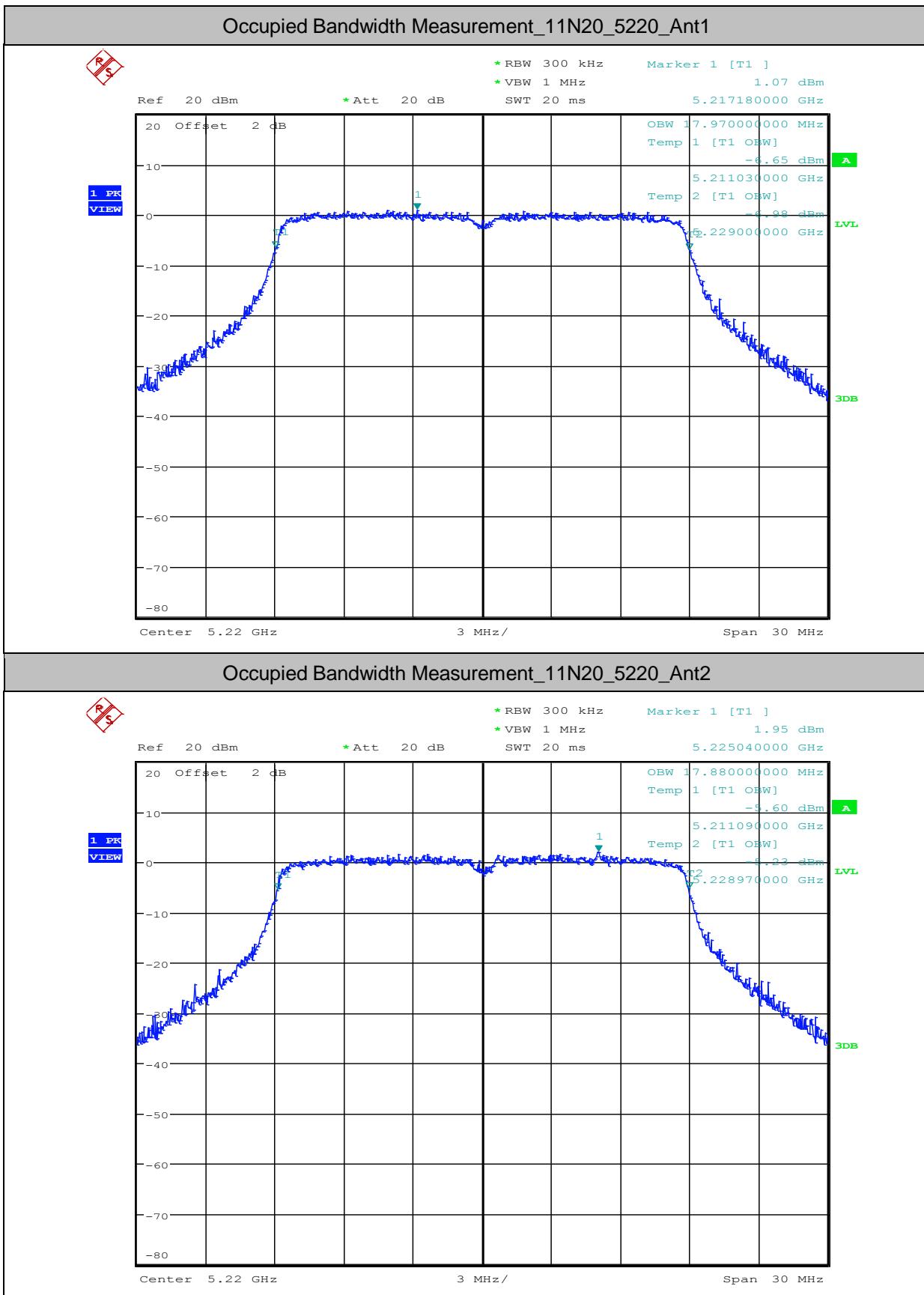


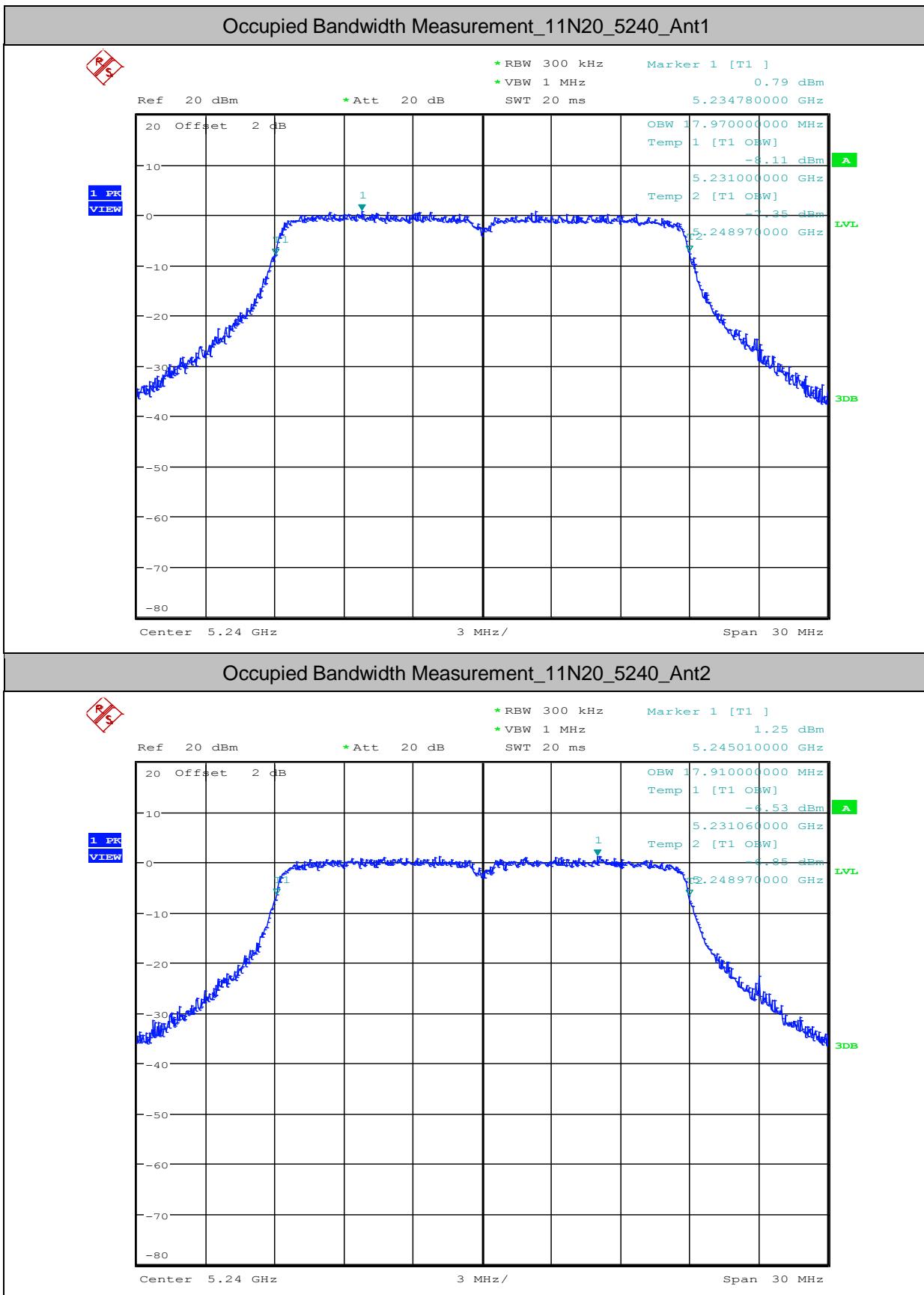


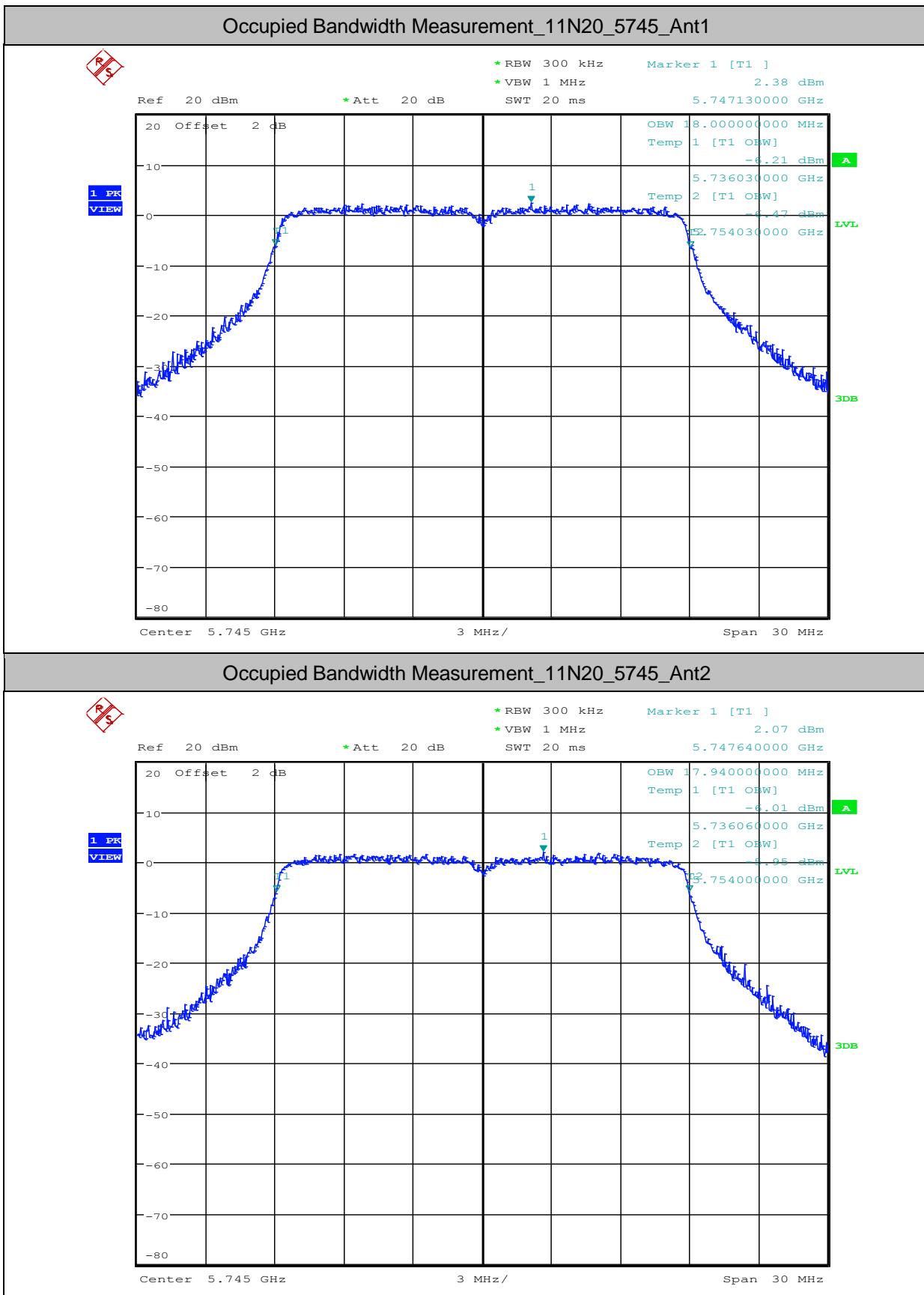


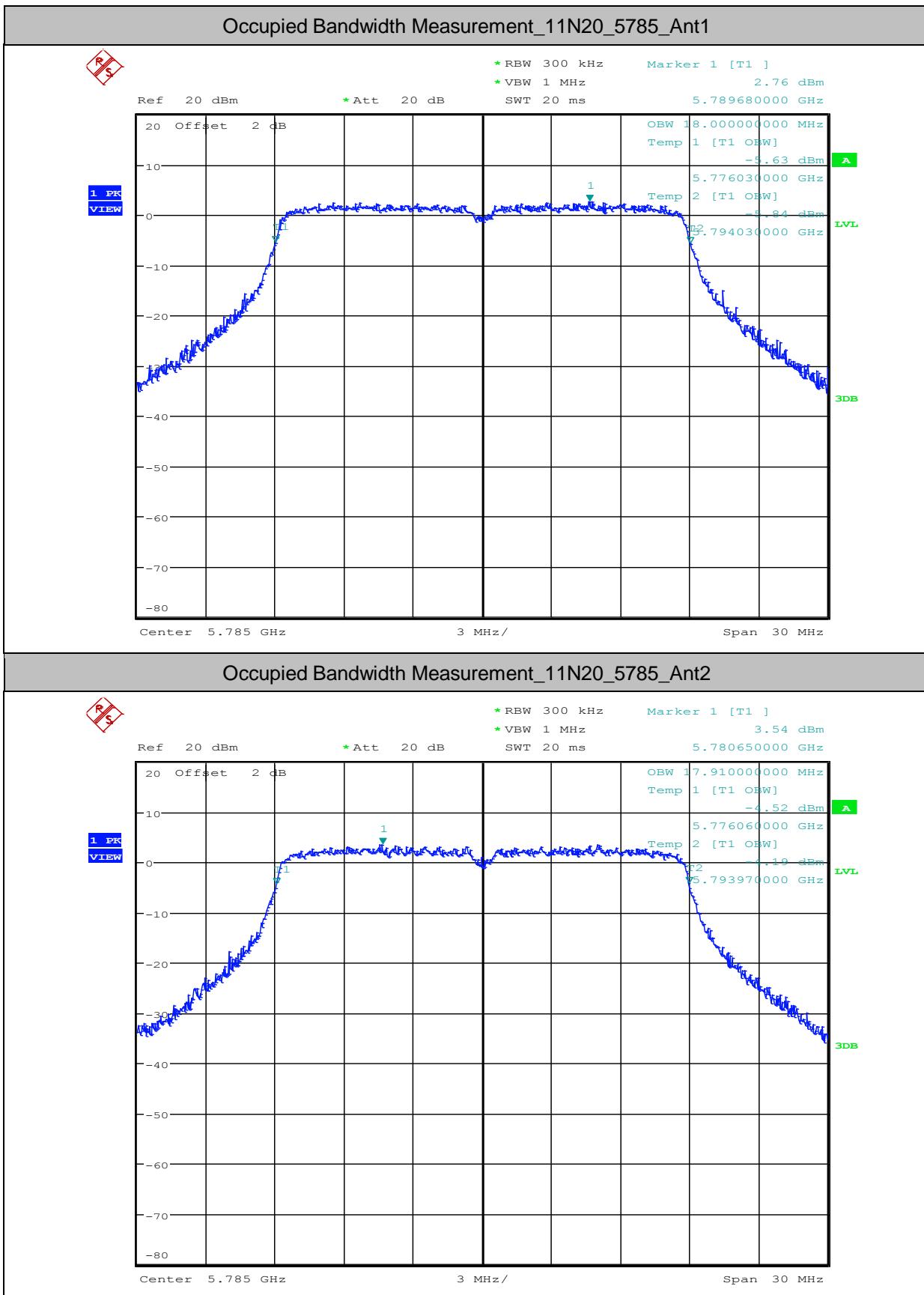


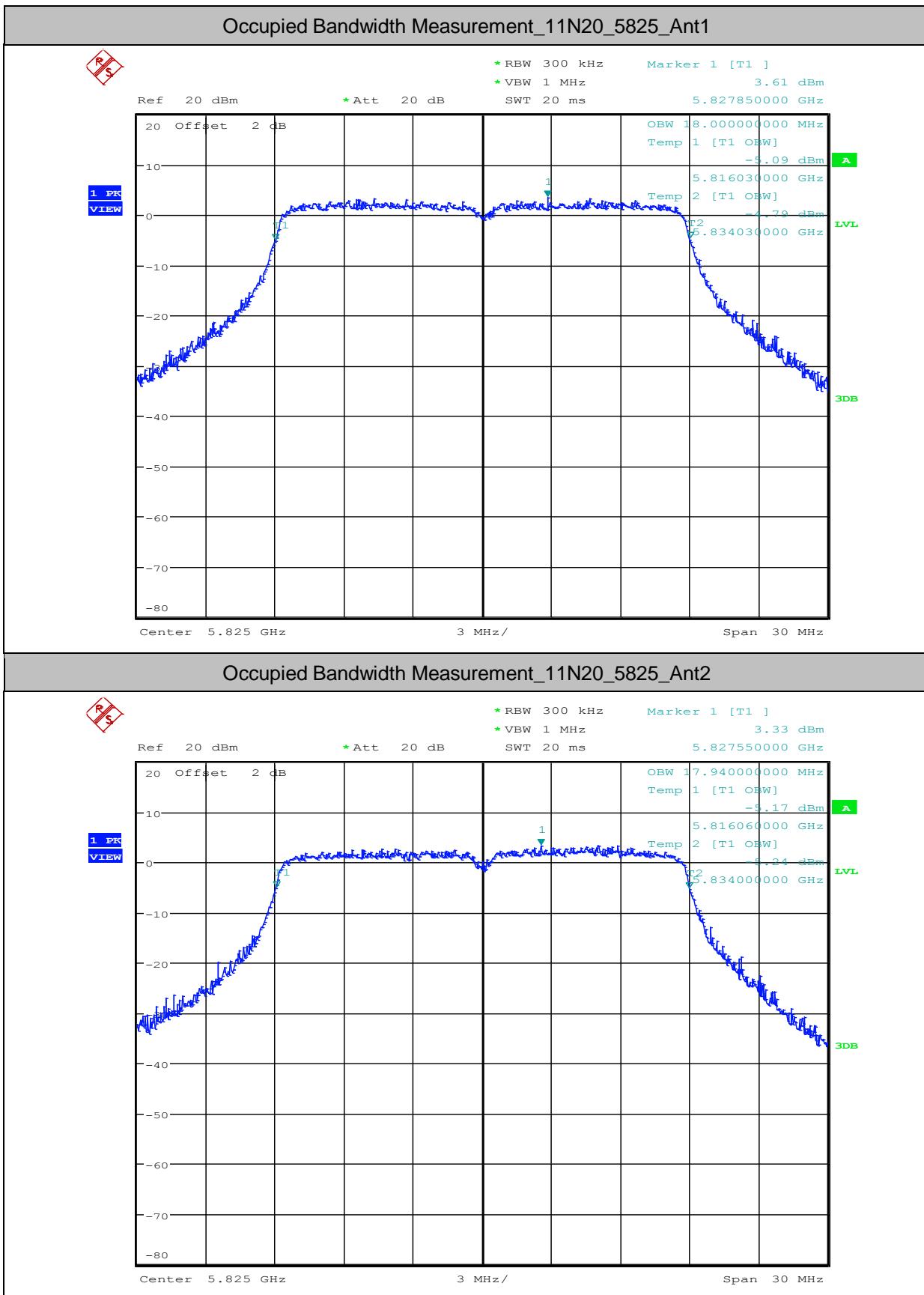




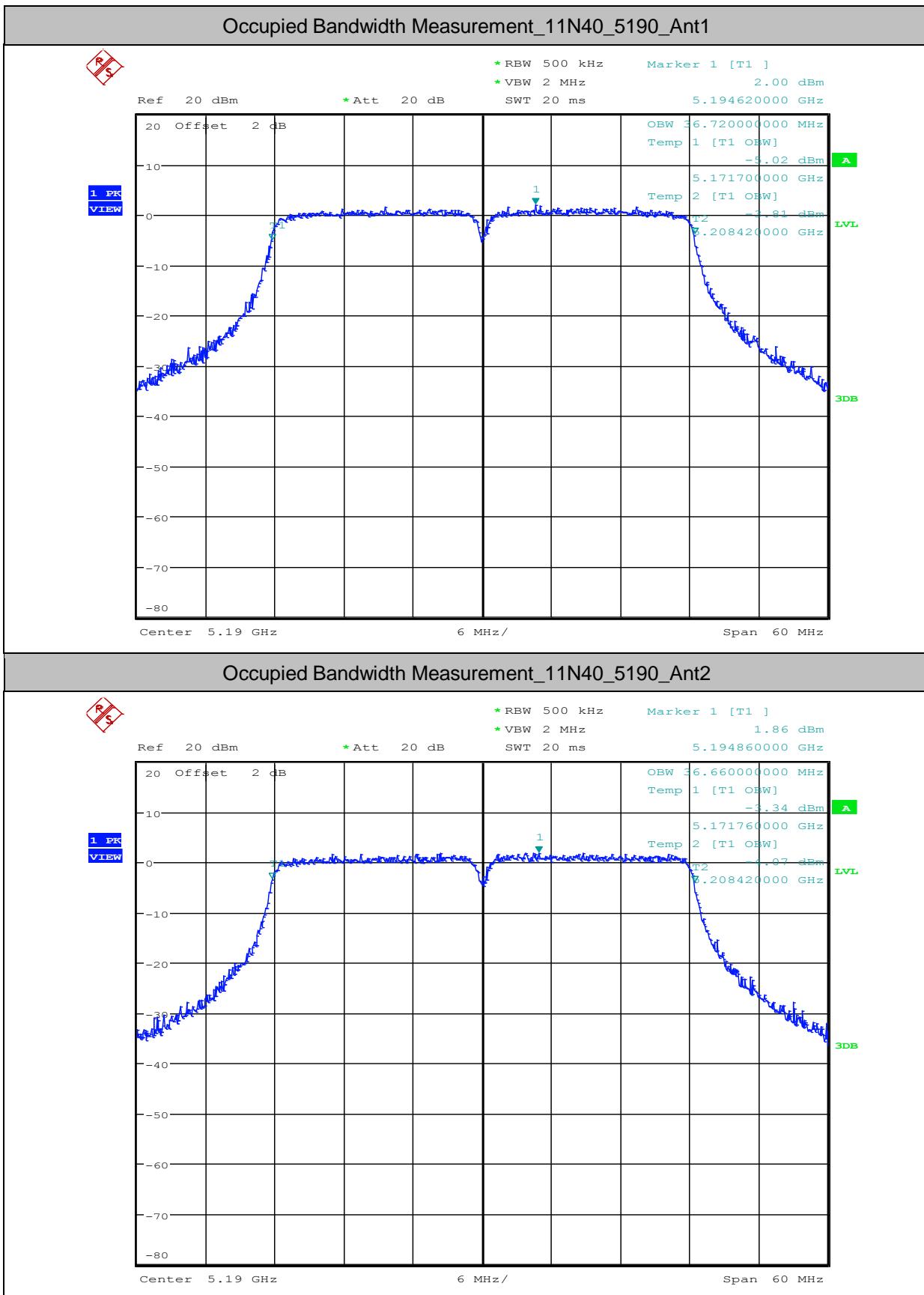


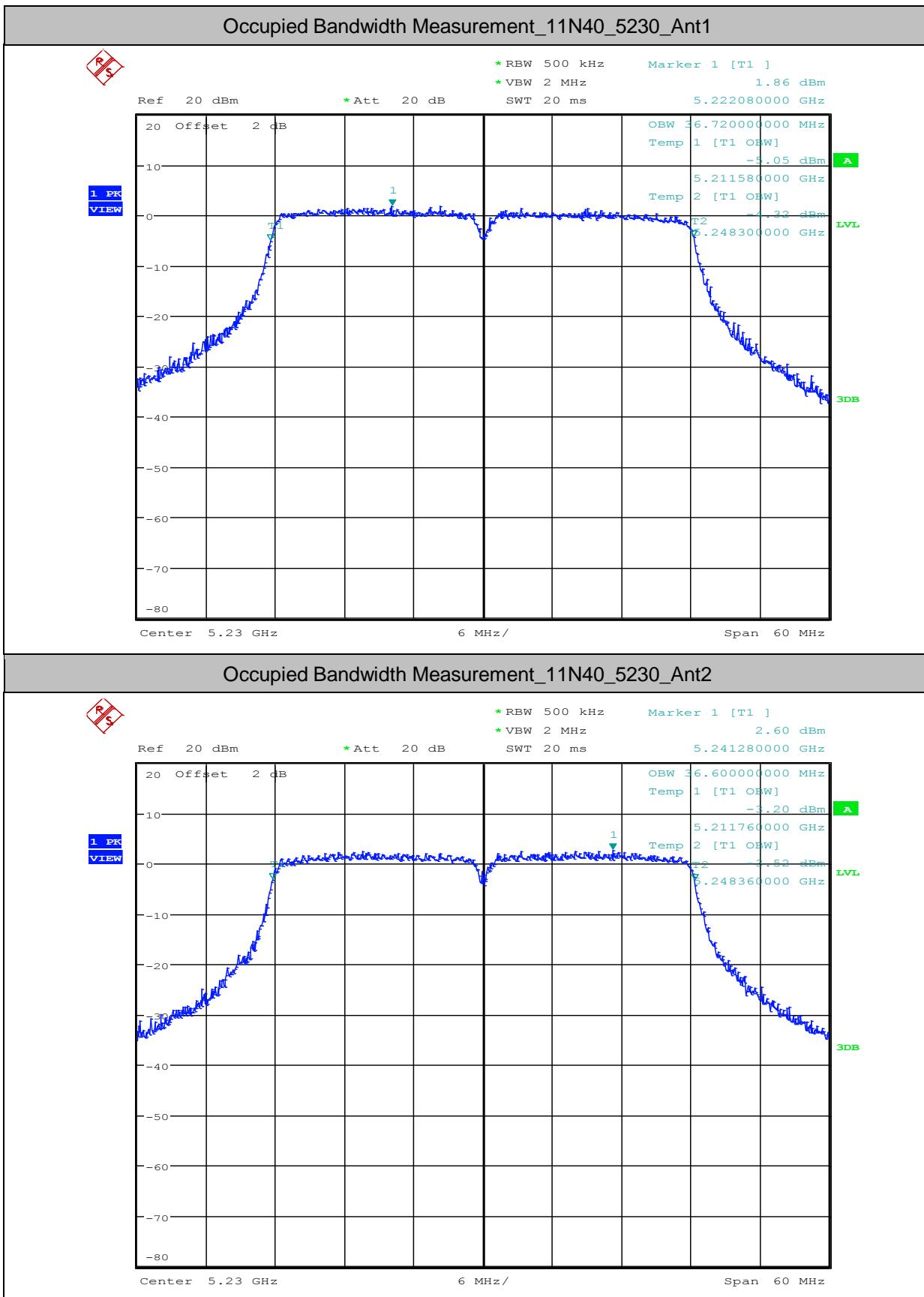


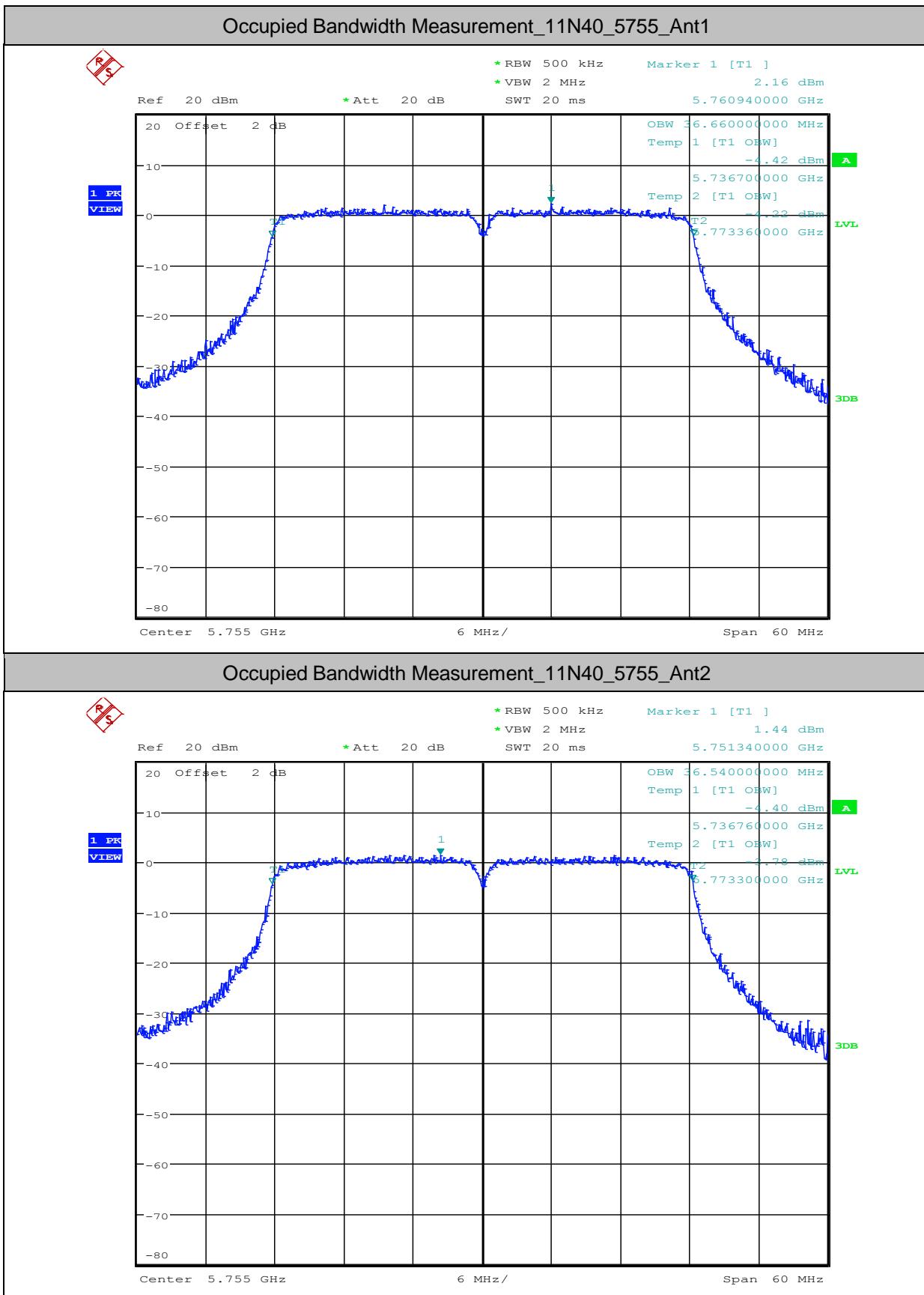




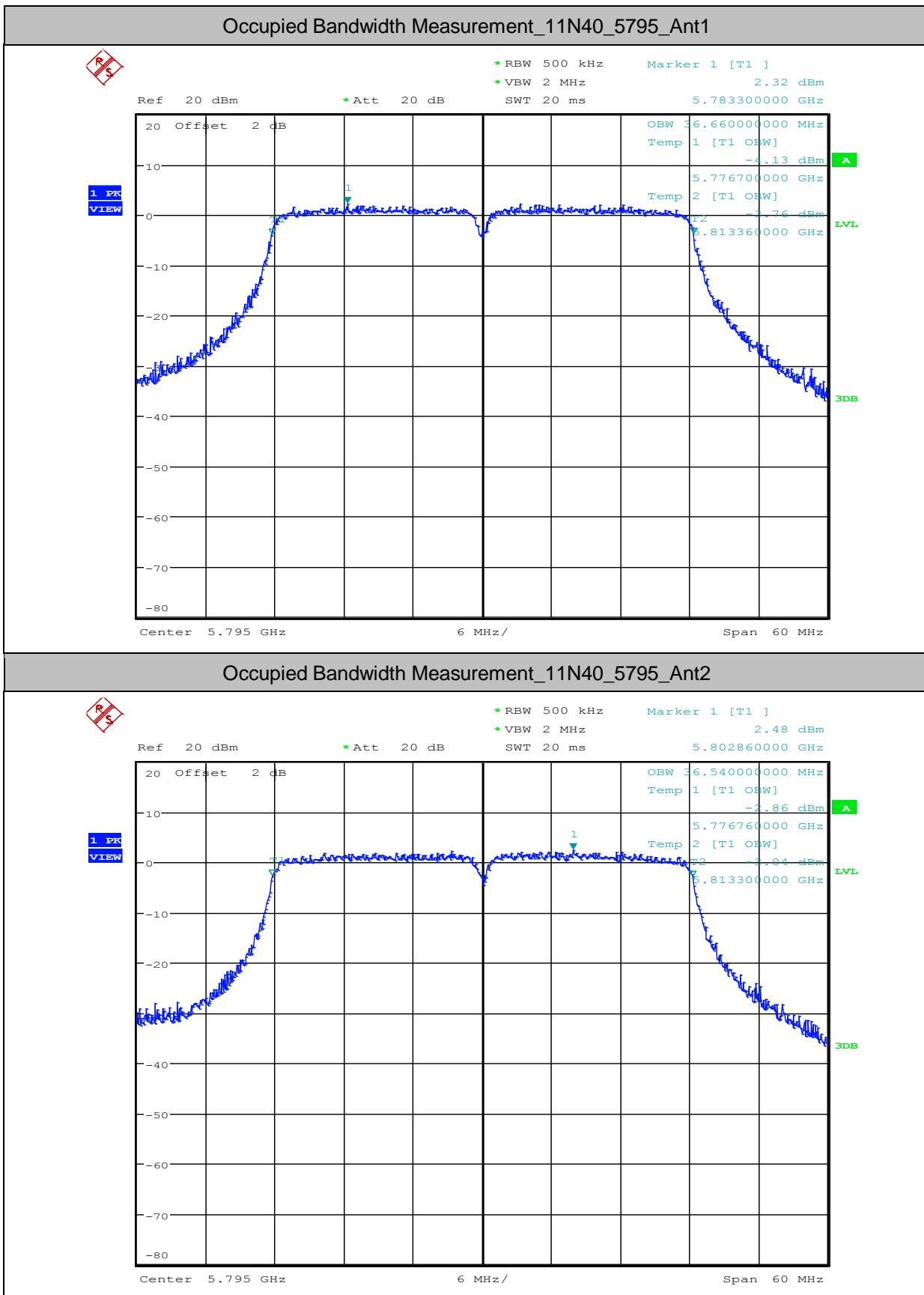
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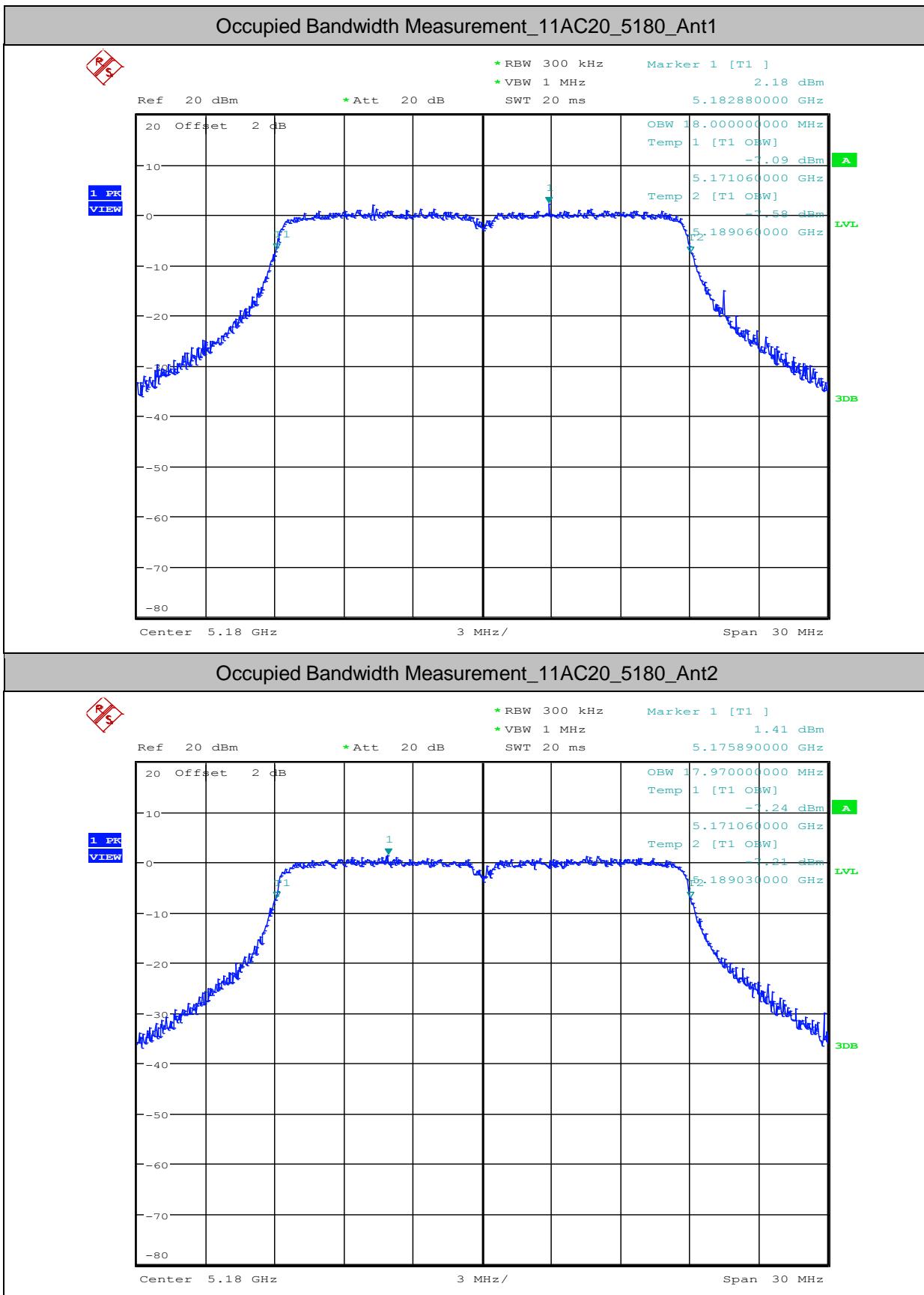


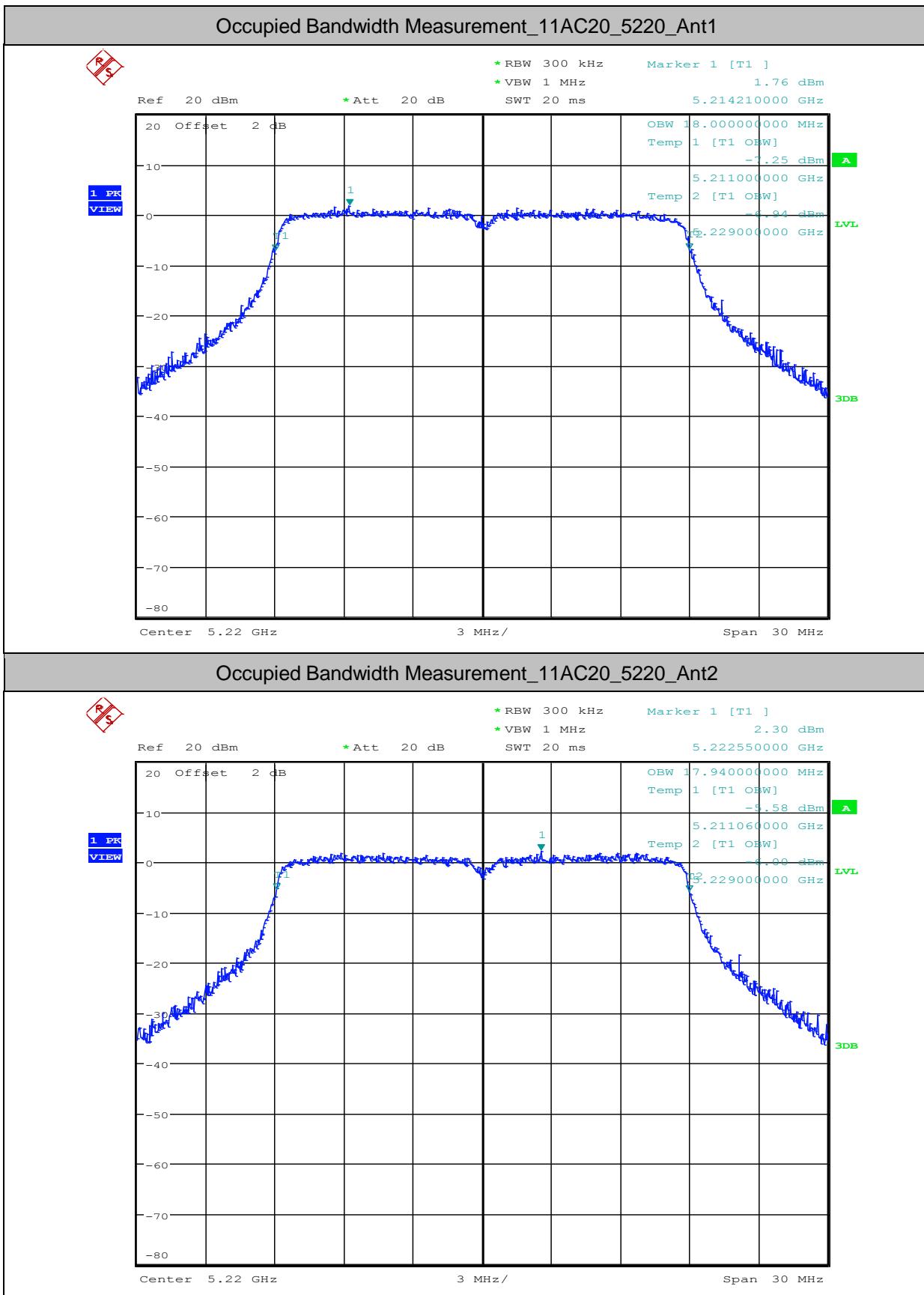


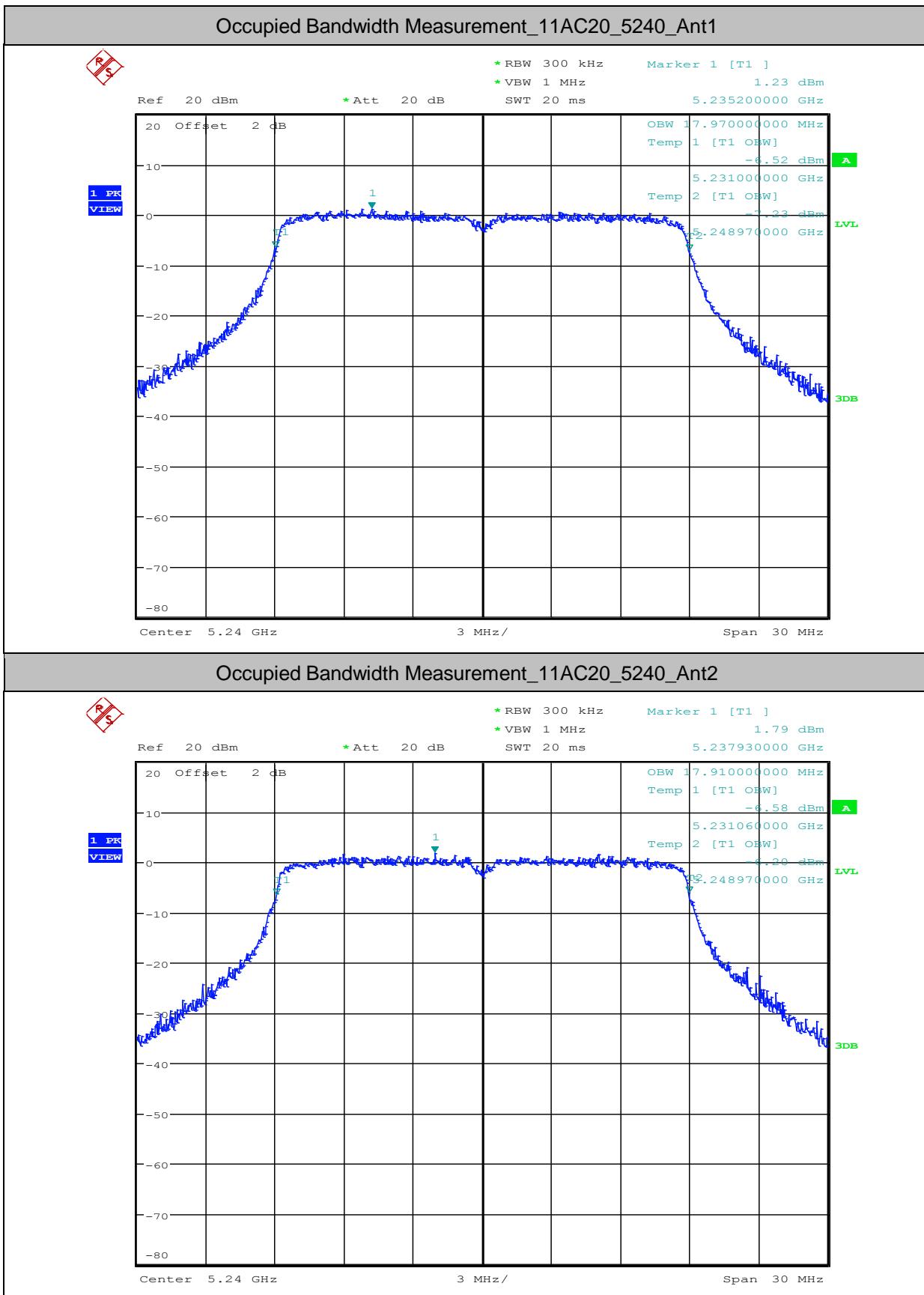


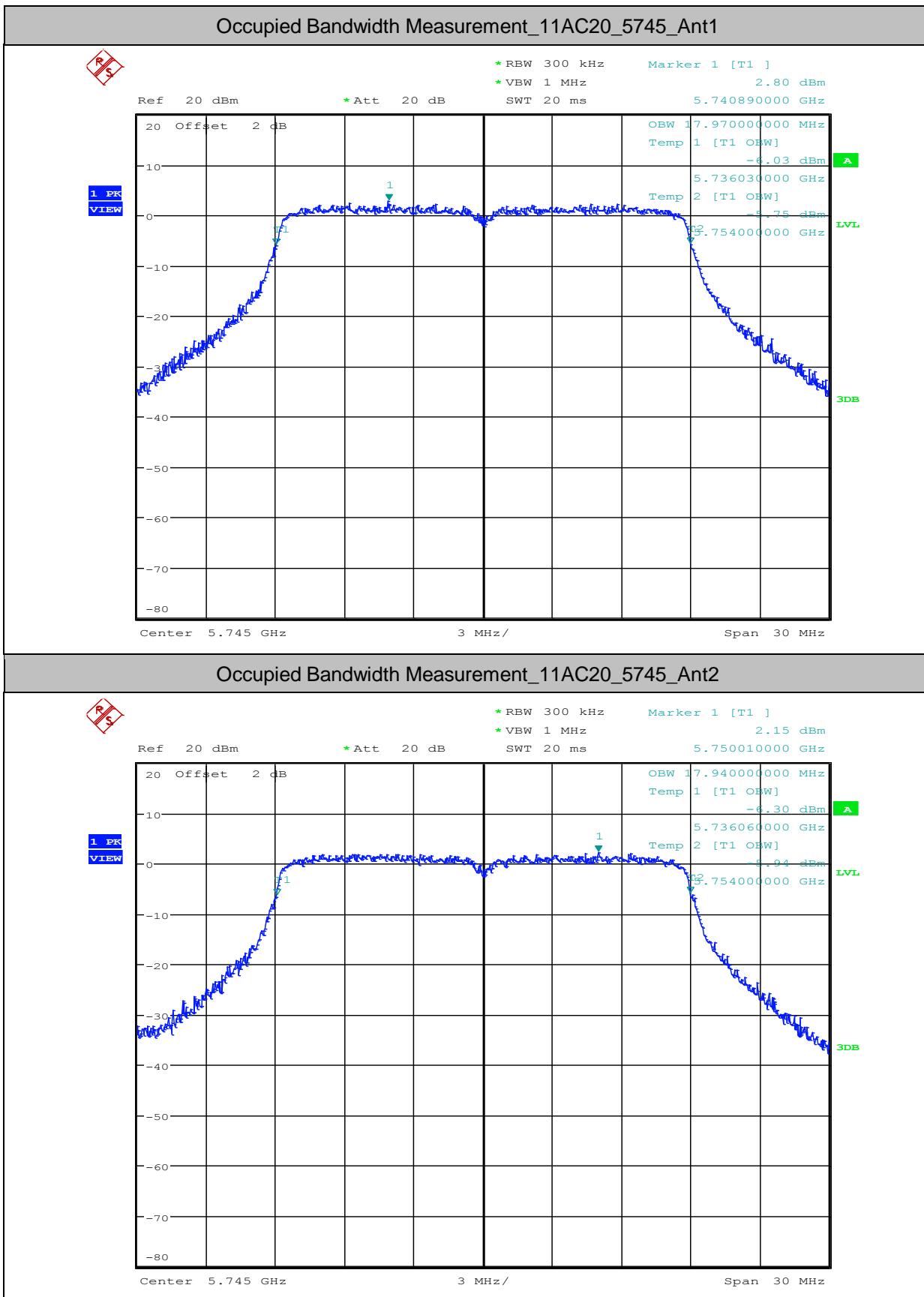
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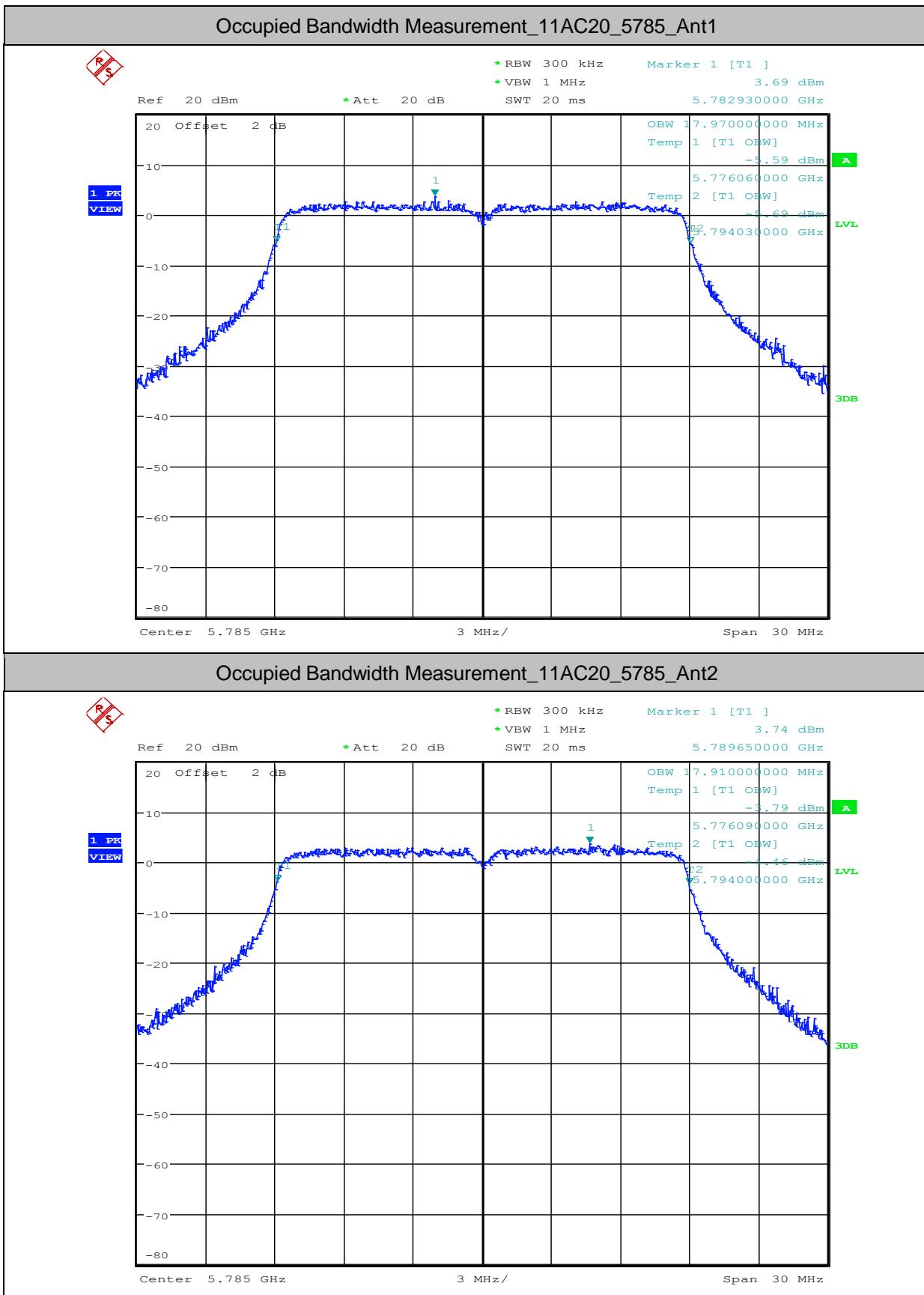


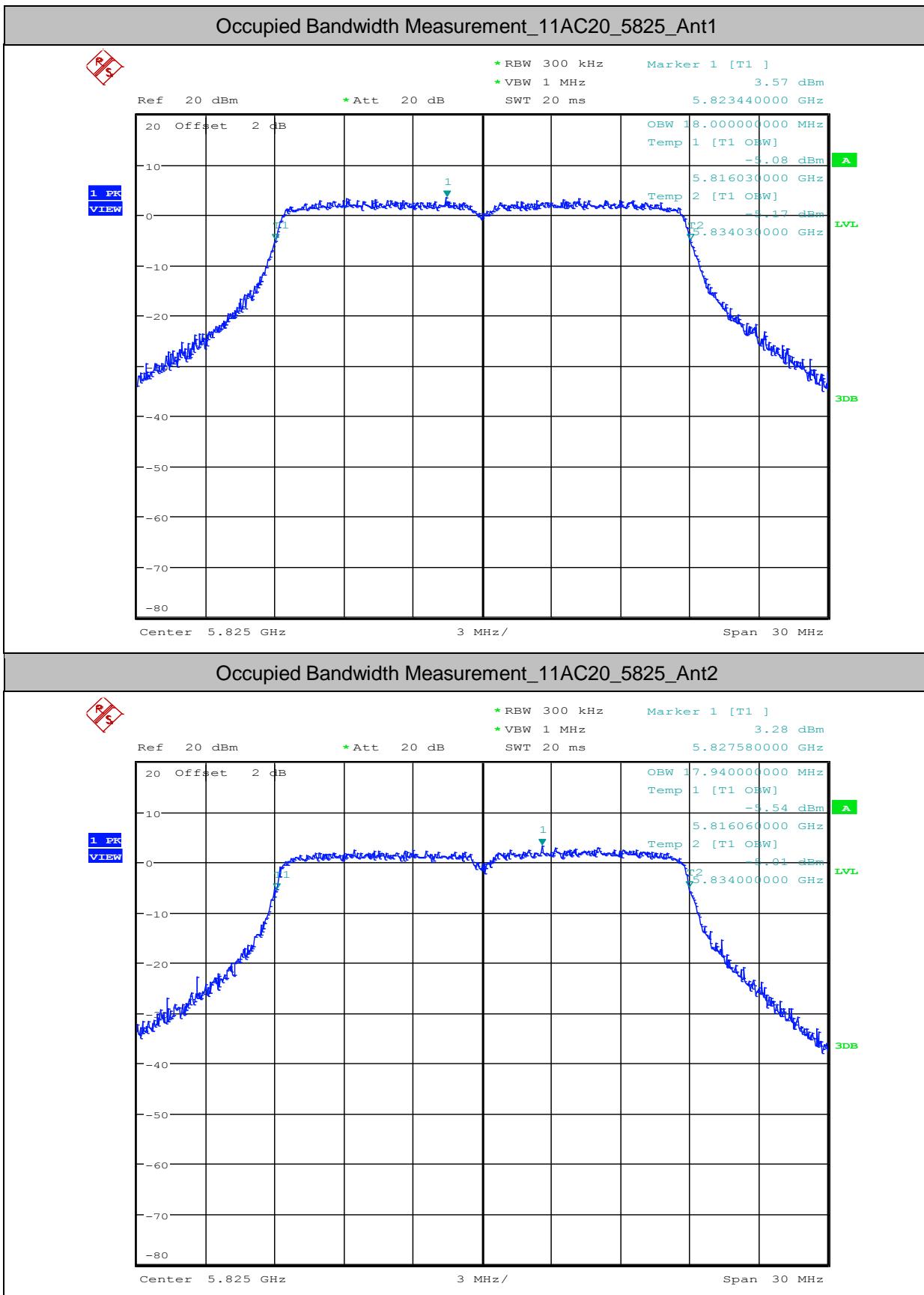


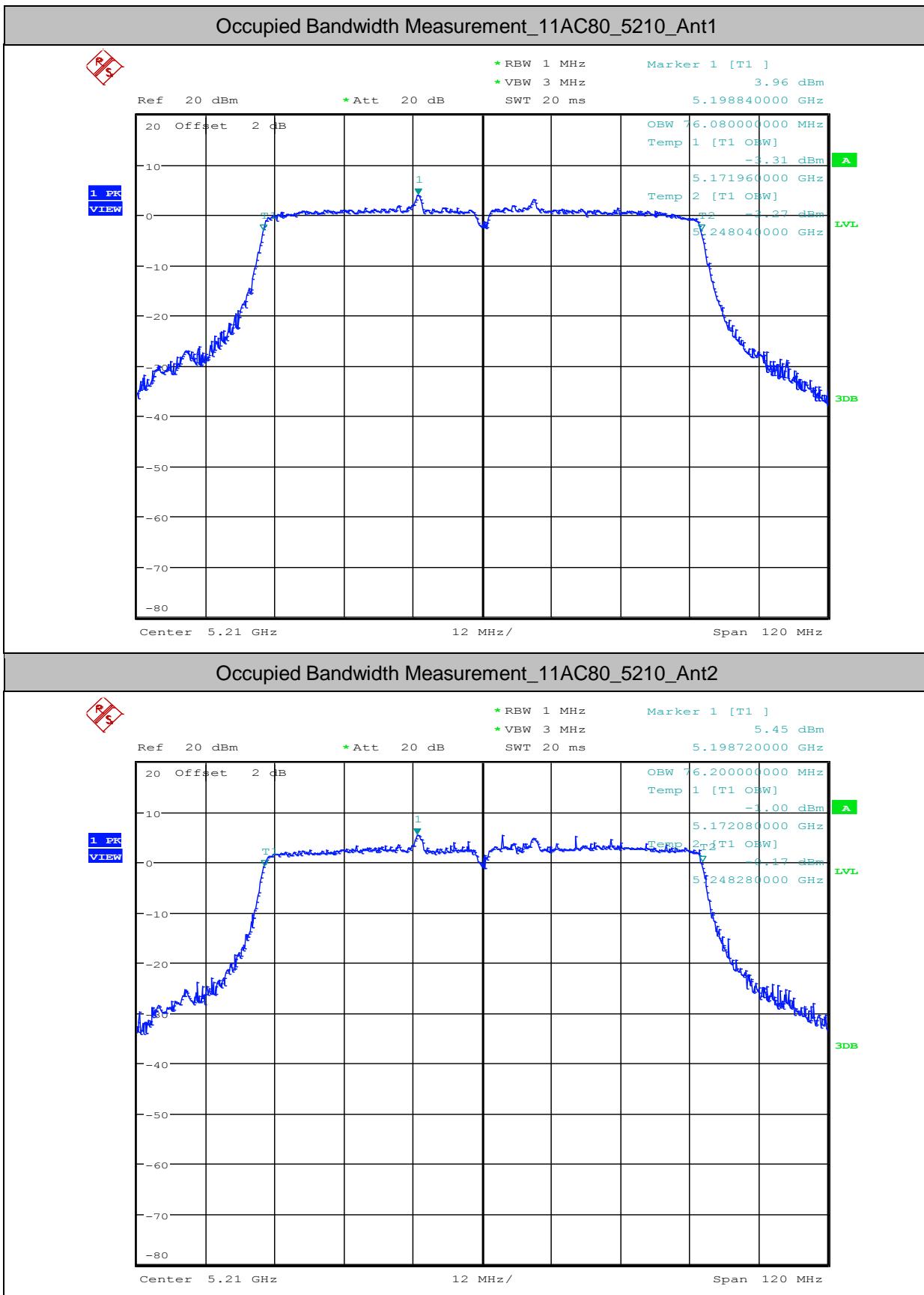


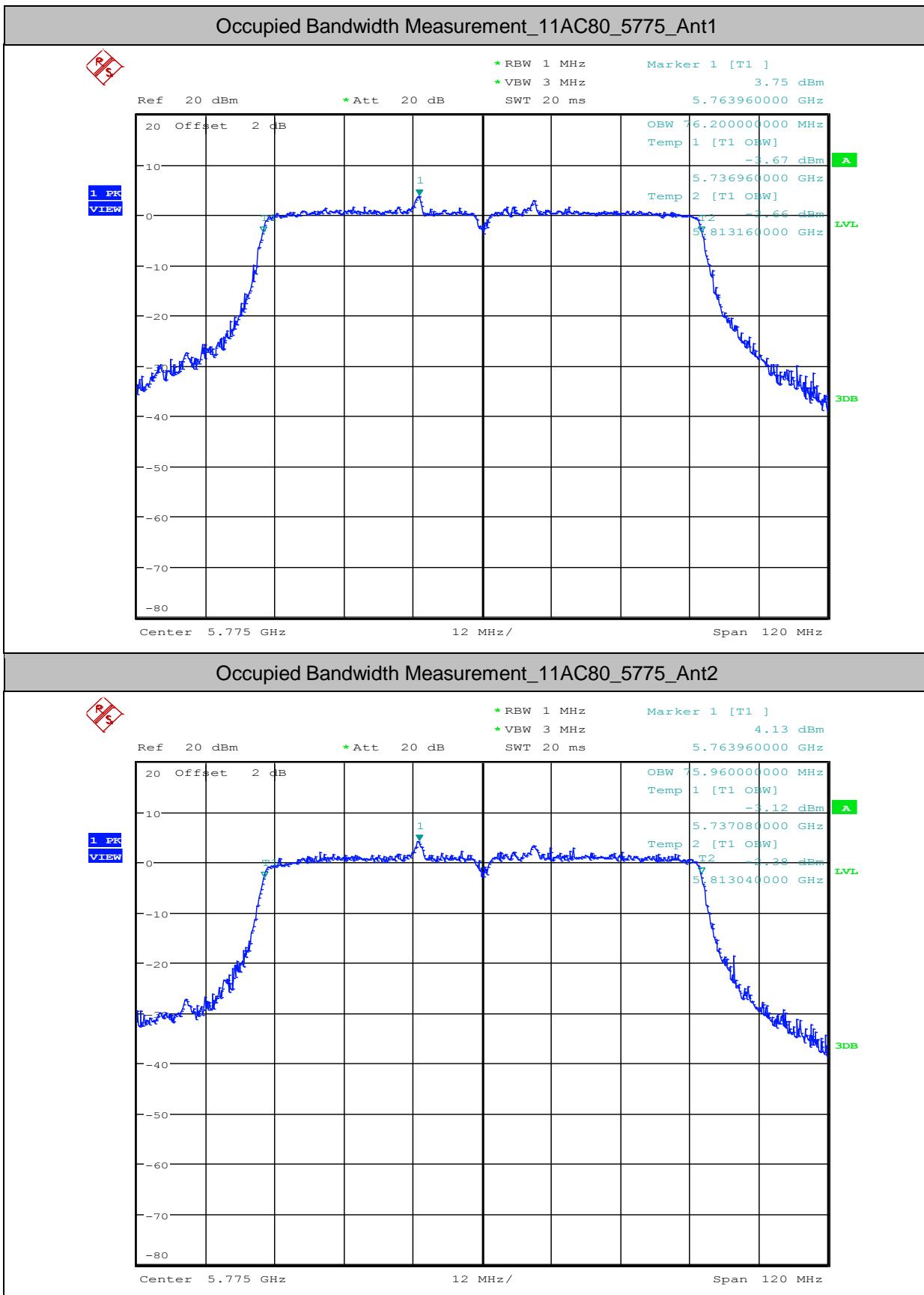


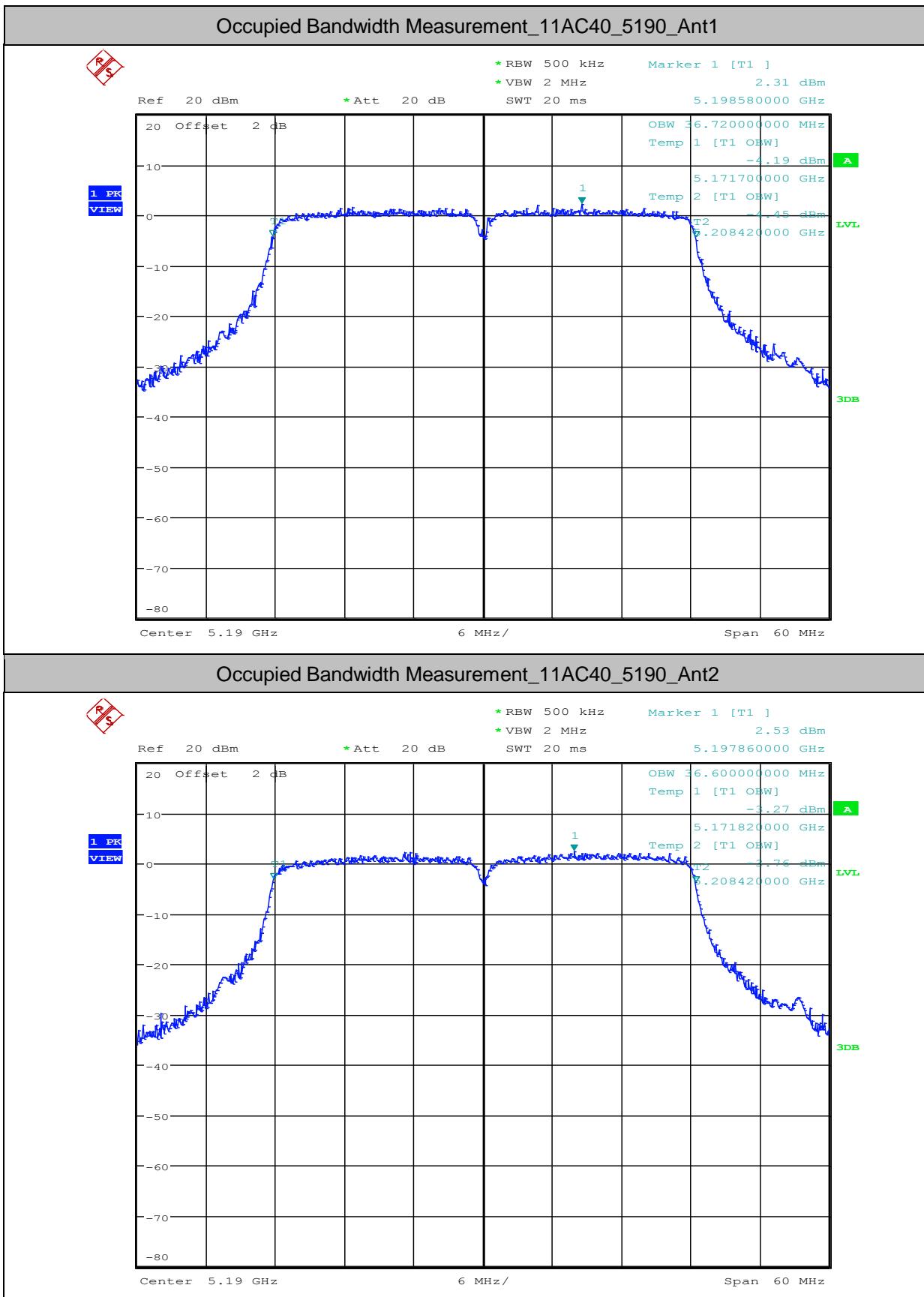


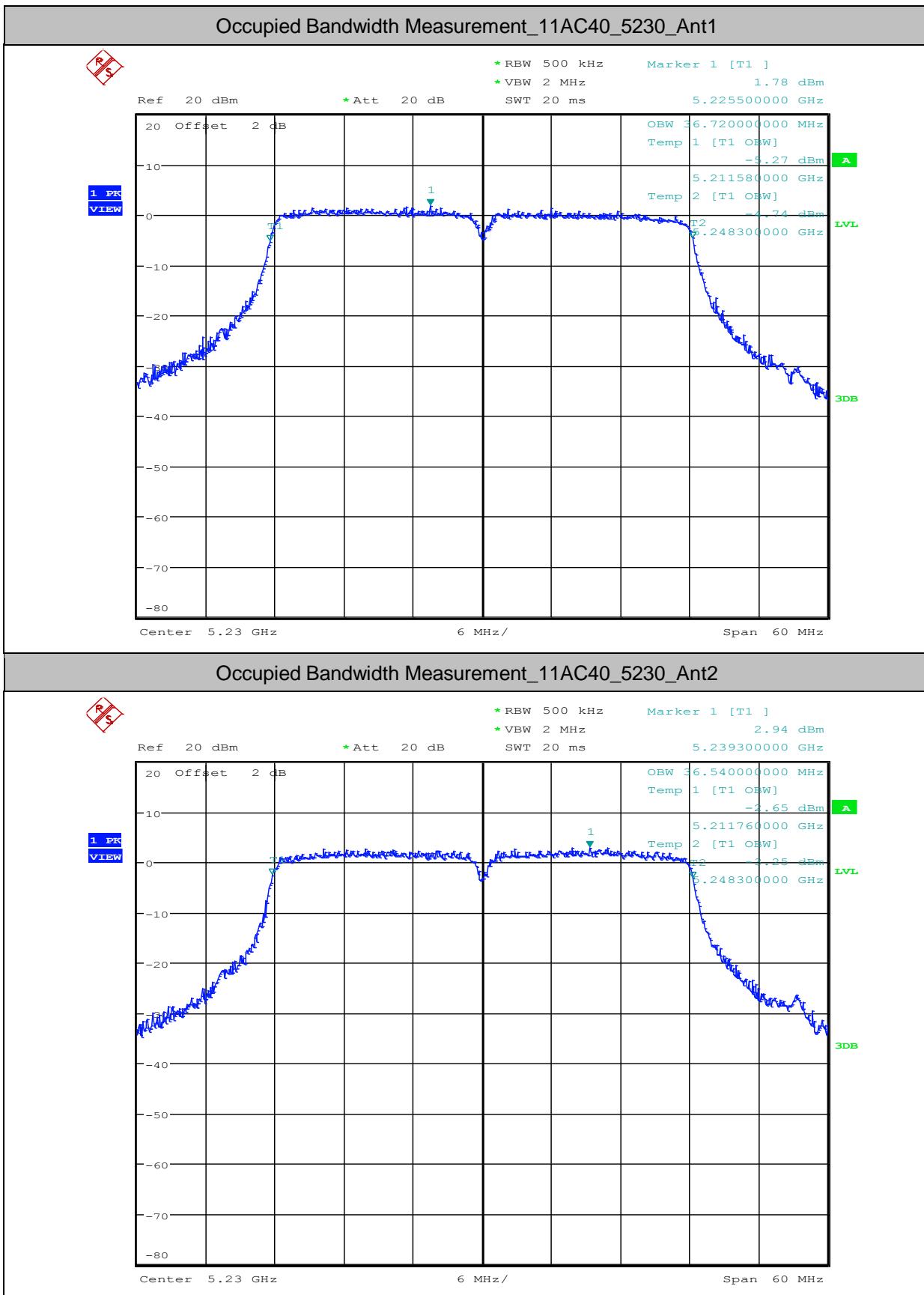




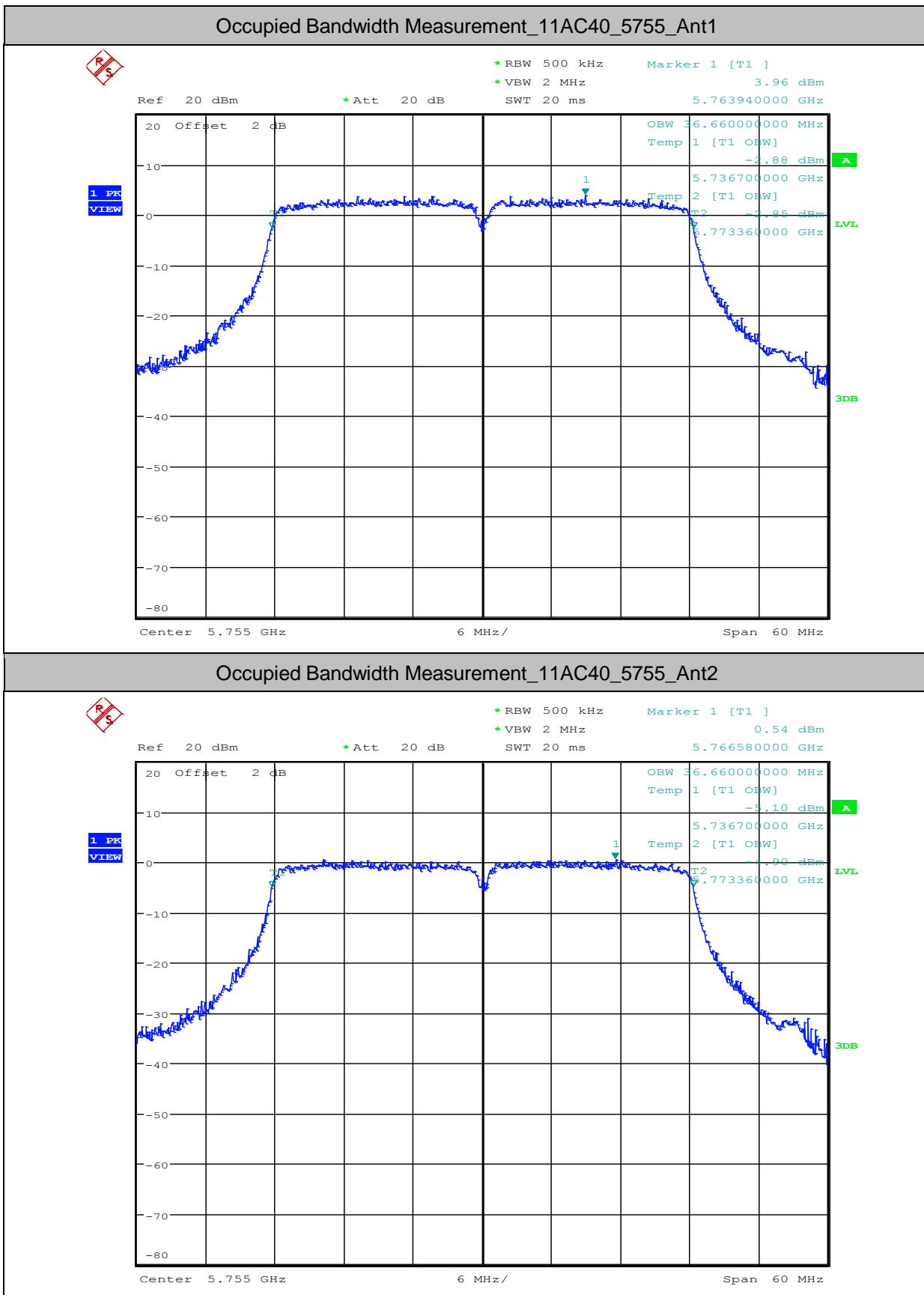


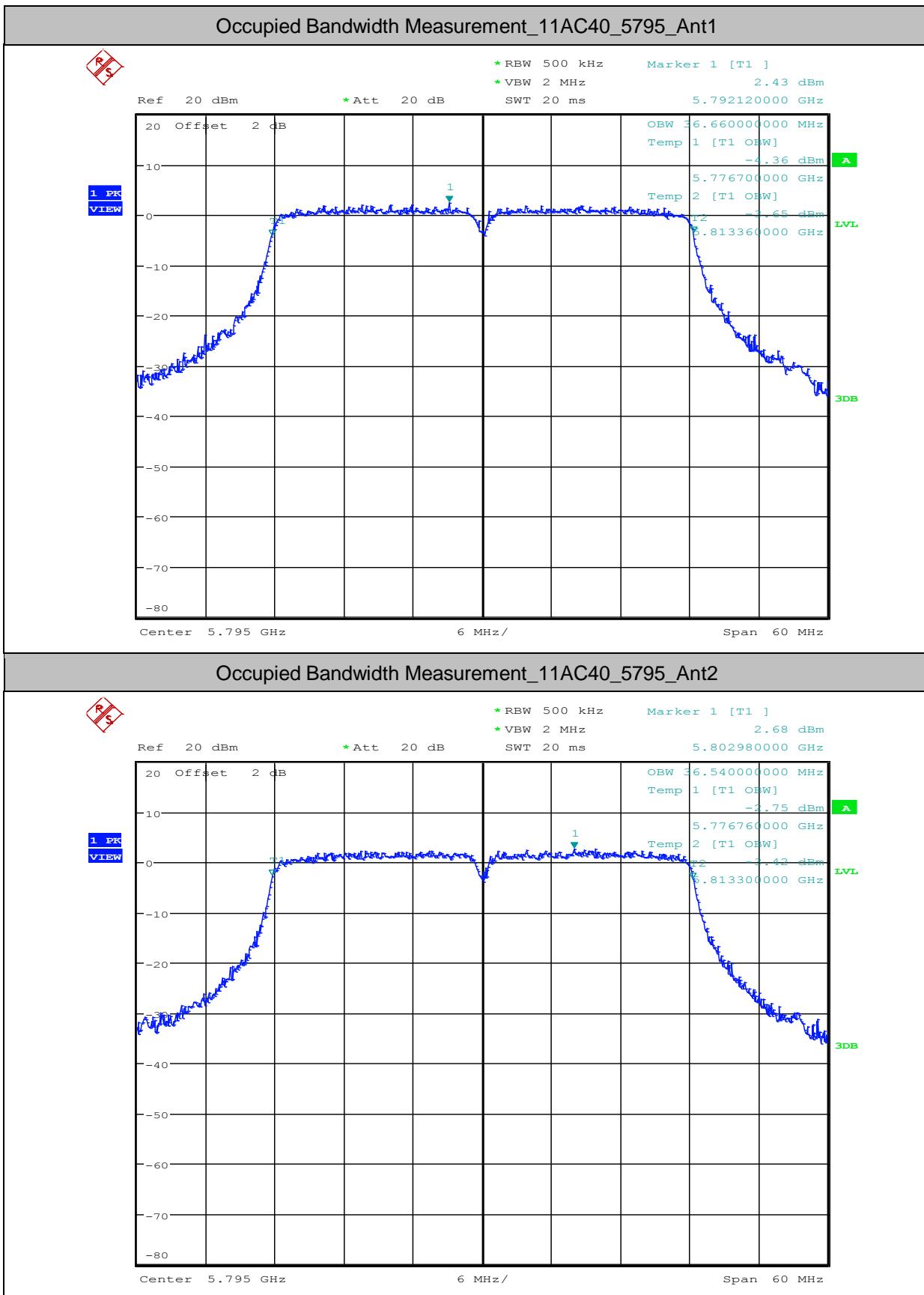






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3. Maximum Conduct Output Power

802.11a mode				
Frequency (MHz)	Conducted Output Power (dBm)		Limit (dBm)	Result
	Ant.1	Ant.2		
5180.00	11.96	11.51	28.49	Pass
5220.00	12.12	11.56	28.49	Pass
5240.00	11.49	11.95	28.49	Pass
5745.00	11.26	11.30	28.49	Pass
5785.00	11.71	11.40	28.49	Pass
5825.00	12.09	11.51	28.49	Pass

802.11 n20 mode					
Frequency (MHz)	Conducted Output Power (dBm)			Limit (dBm)	Result
	Ant.1	Ant.2	Total		
5180.00	10.08	10.21	13.16	28.49	Pass
5220.00	10.28	10.37	13.34	28.49	Pass
5240.00	10.32	10.45	13.40	28.49	Pass
5745.00	11.31	11.40	14.37	28.49	Pass
5785.00	11.88	11.95	14.93	28.49	Pass
5825.00	12.33	12.10	15.23	28.49	Pass

802.11 n 40 mode					
Frequency (MHz)	Conducted Output Power (dBm)			Limit (dBm)	Result
	Ant.1	Ant.2	Total		
5190.00	11.75	11.93	14.85	28.49	Pass
5230.00	11.52	12.39	14.99	28.49	Pass
5755.00	11.72	11.33	14.54	28.49	Pass
5795.00	12.05	12.27	15.17	28.49	Pass

802.11 ac 20 mode					
Frequency (MHz)	Conducted Output Power (dBm)			Limit (dBm)	Result
	Ant.1	Ant.2	Total		
5180.00	10.48	10.39	13.45	28.49	Pass
5220.00	10.03	10.58	13.32	28.49	Pass
5240.00	10.07	10.45	13.27	28.49	Pass
5745.00	11.36	11.26	14.32	28.49	Pass
5785.00	11.98	11.7	14.85	28.49	Pass
5825.00	12.22	11.83	15.04	28.49	Pass



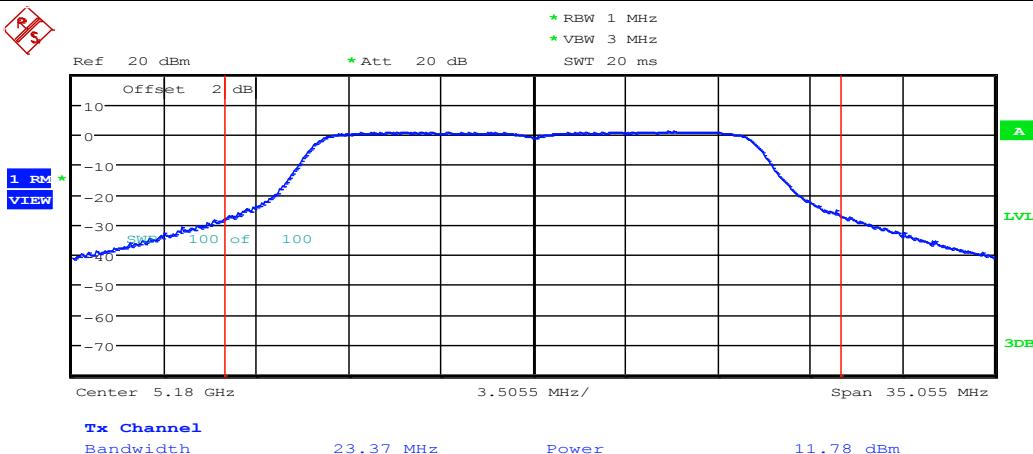
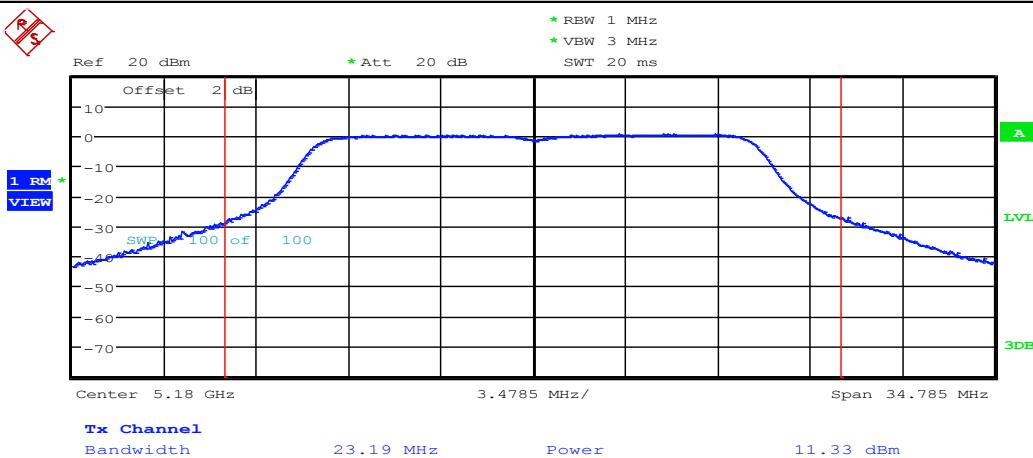
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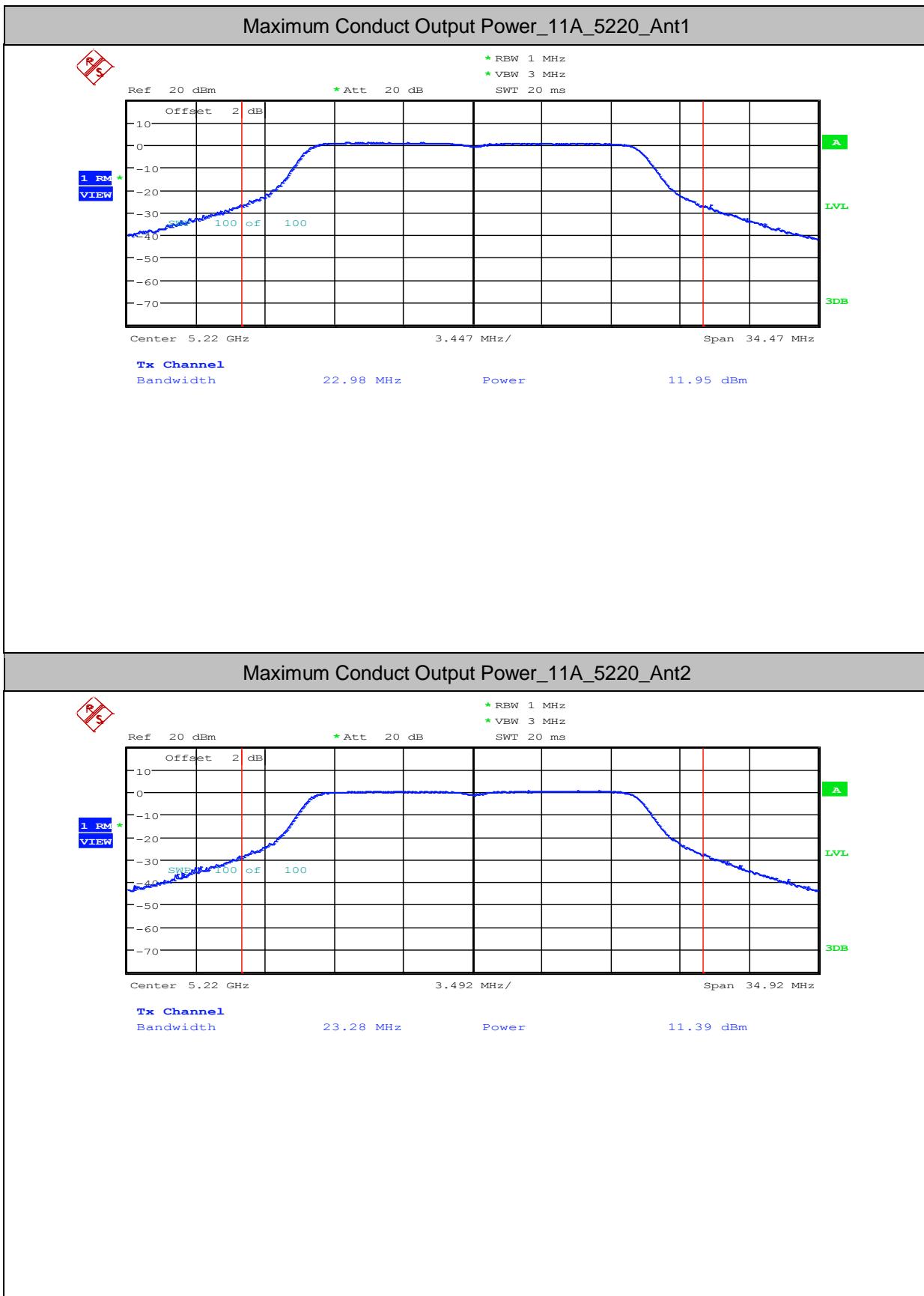
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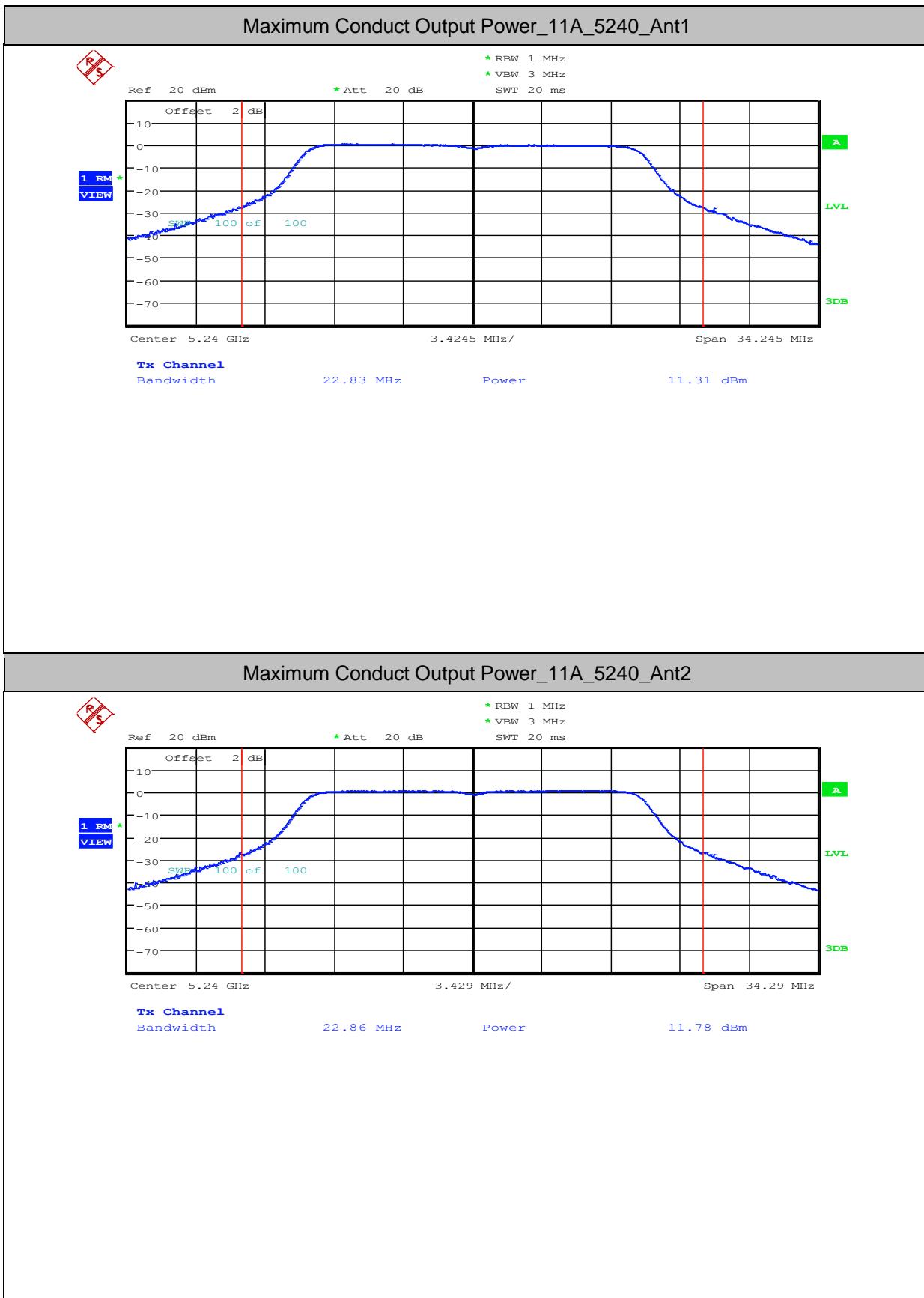
802.11ac 40 mode					
Frequency (MHz)	Conducted Output Power (dBm)			Limit (dBm)	Result
	Ant.1	Ant.2	Total		
5190.00	11.64	11.67	14.67	28.49	Pass
5230.00	11.36	12.15	14.78	28.49	Pass
5755.00	11.64	11.59	14.63	28.49	Pass
5795.00	12.05	12.04	15.06	28.49	Pass

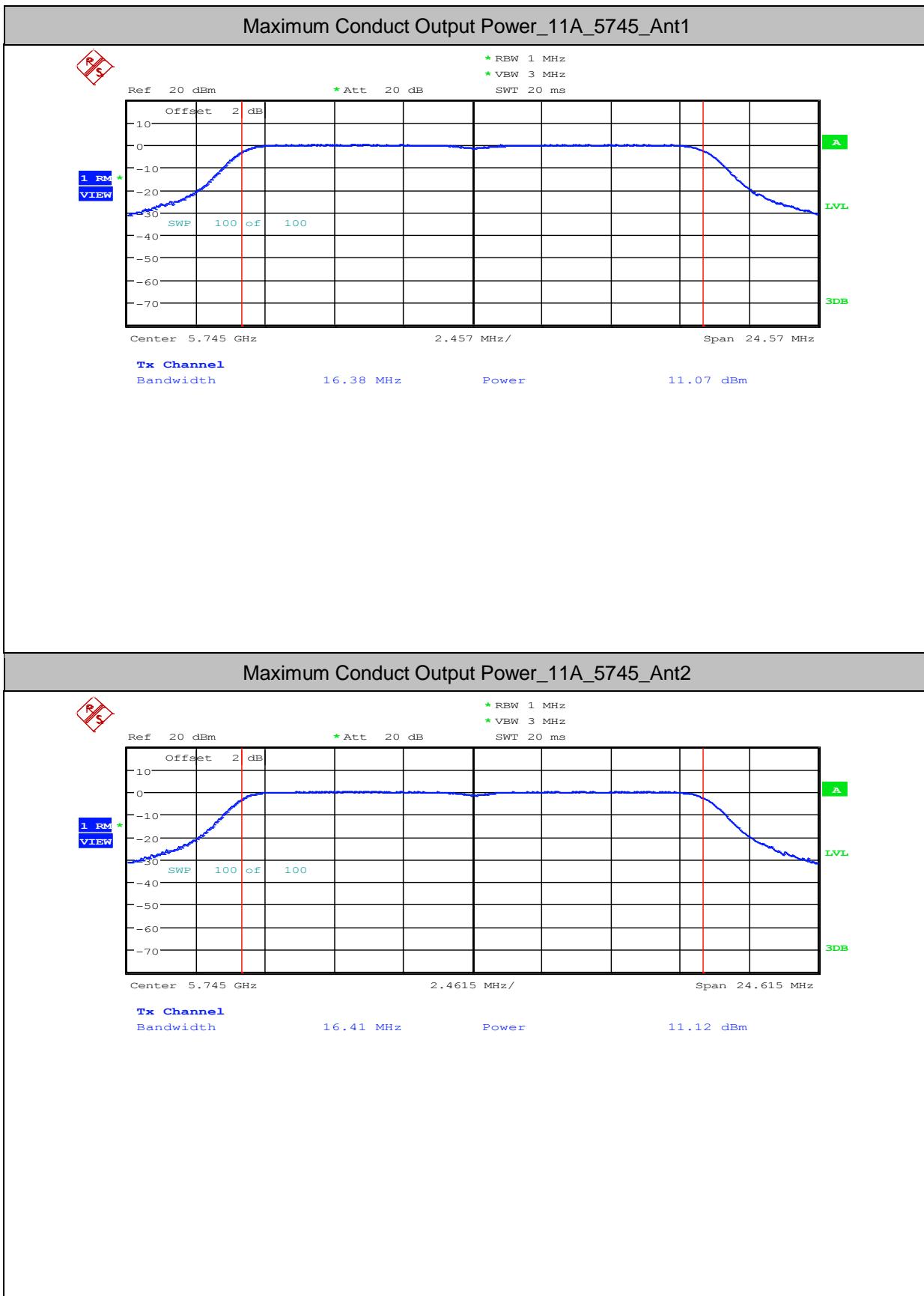
802.11ac 80 mode					
Frequency (MHz)	Conducted Output Power (dBm)			Limit (dBm)	Result
	Ant.1	Ant.2	Total		
5210.00	11.70	11.68	14.70	28.49	Pass
5775.00	11.49	11.80	14.66	28.49	Pass

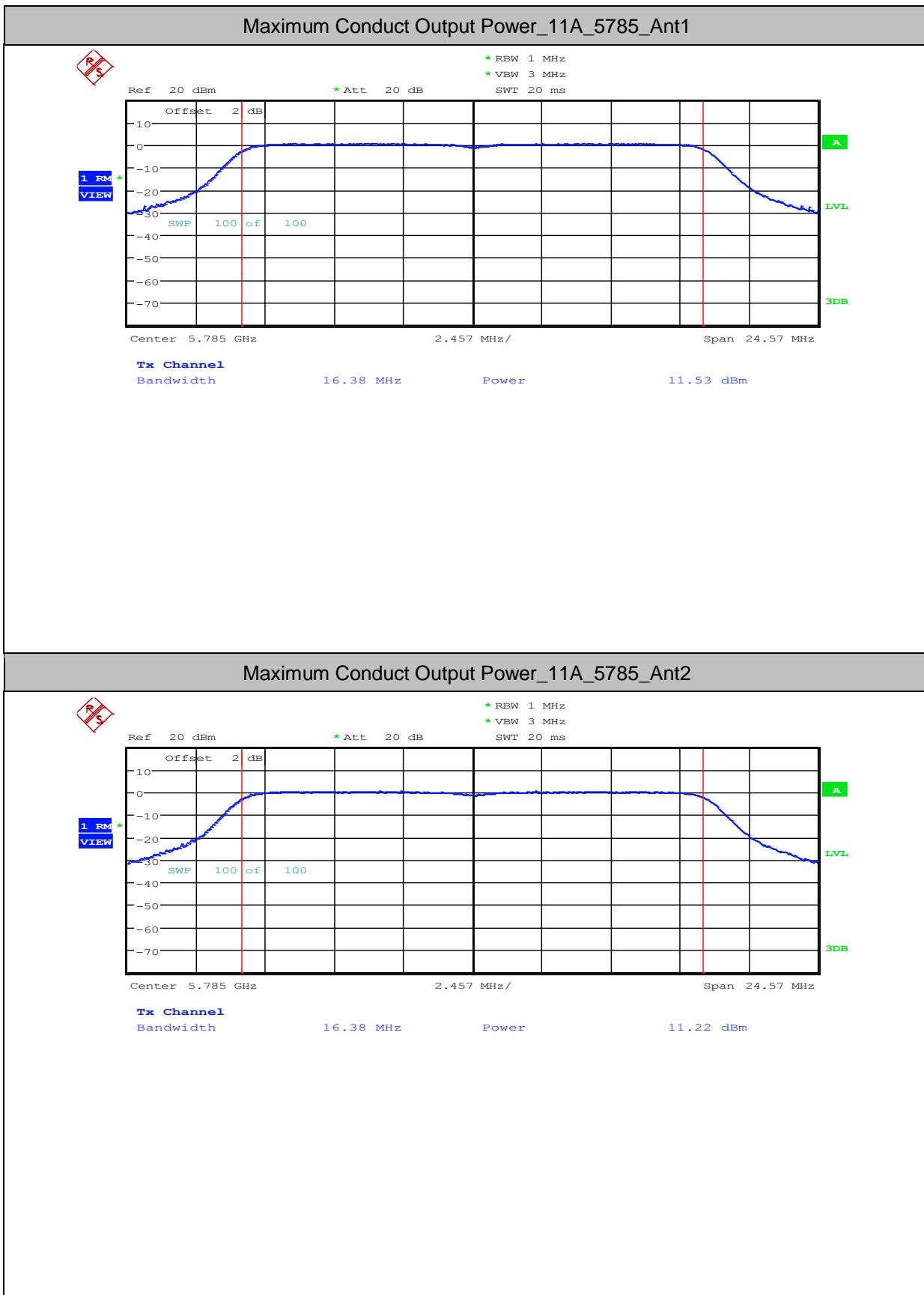
Remark: Power(dBm)=Level(dBm) + 10log(1/x), x is Duty Cycle.

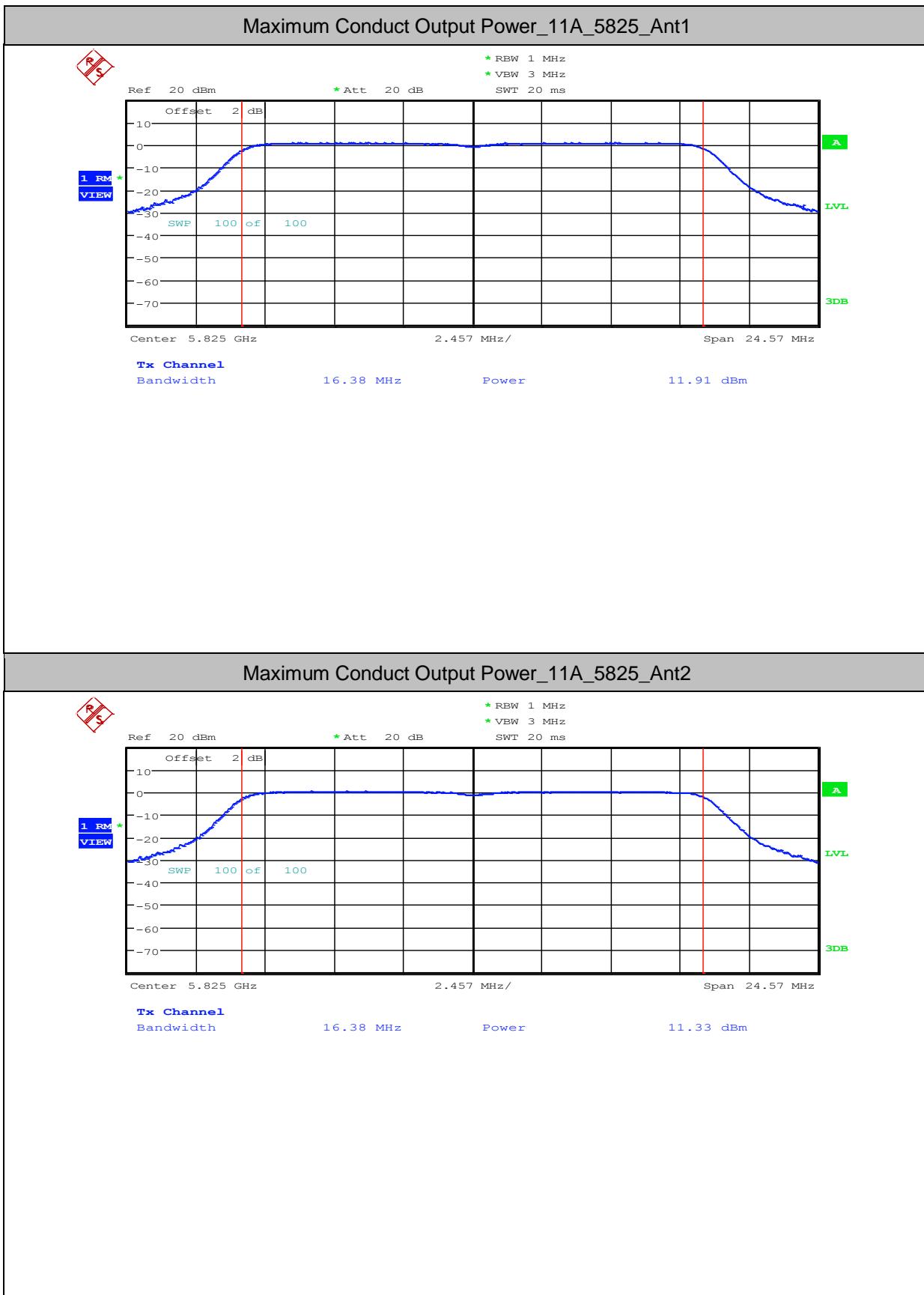
Maximum Conduct Output Power_11A_5180_Ant1**Maximum Conduct Output Power_11A_5180_Ant2**

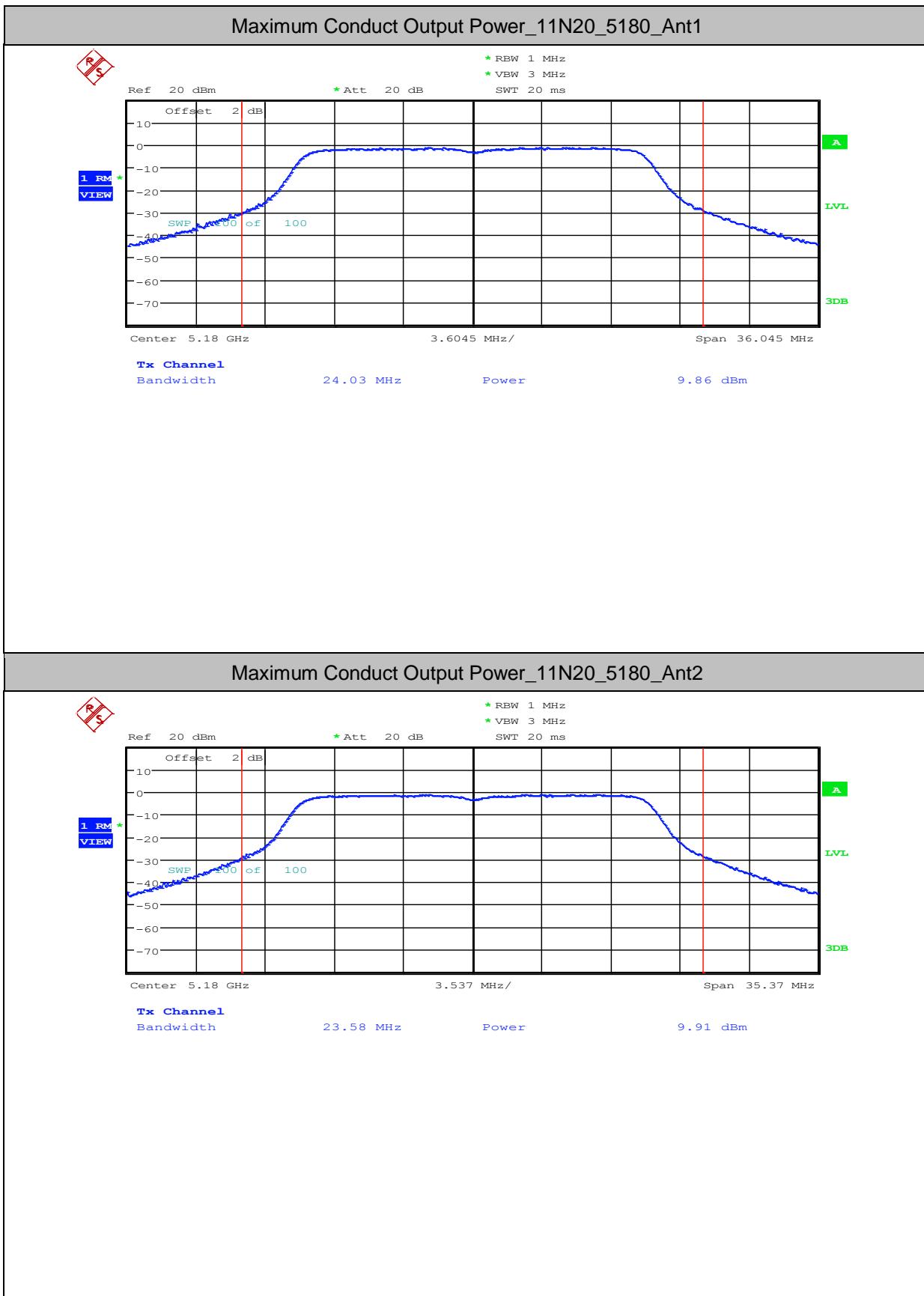


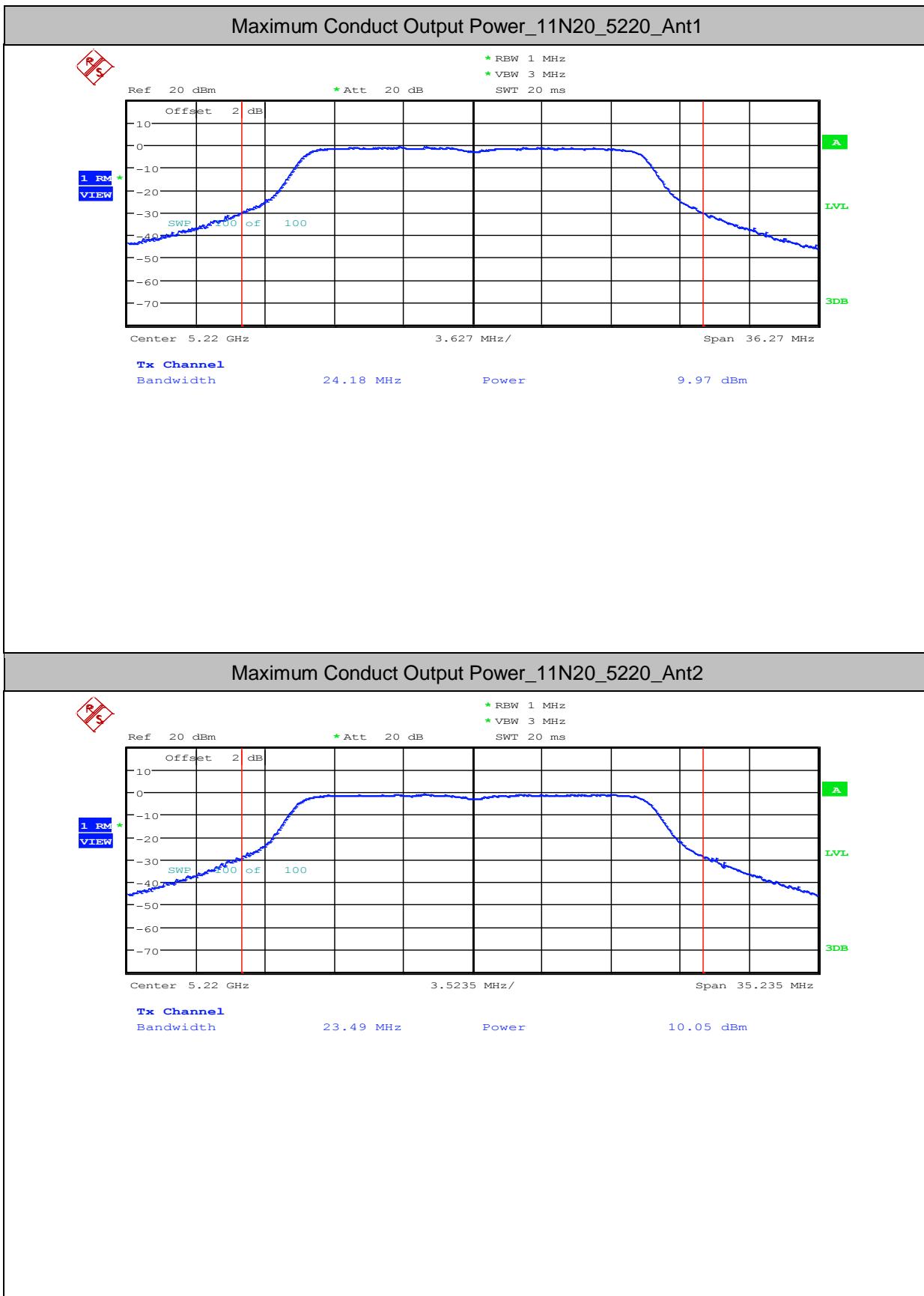


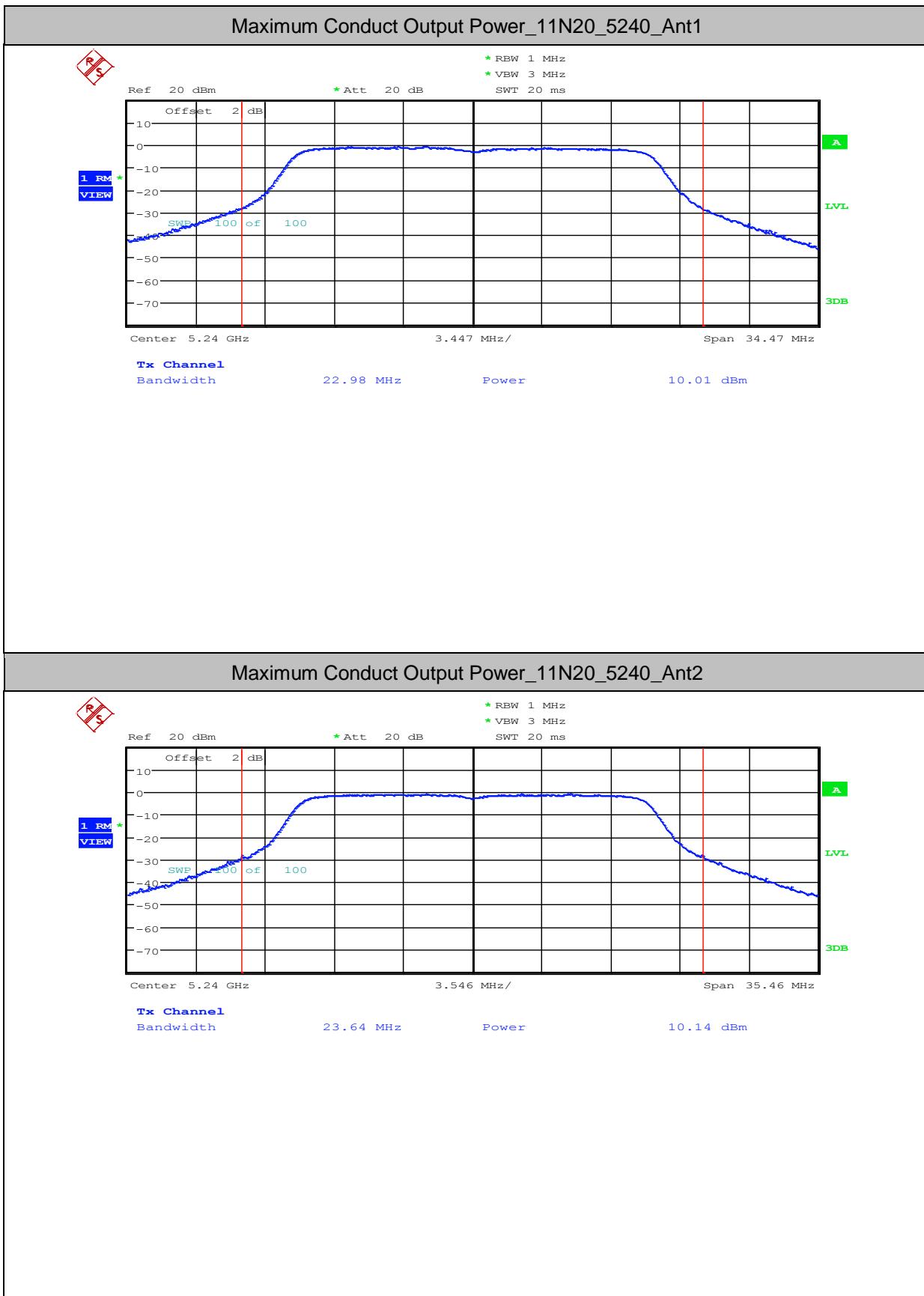


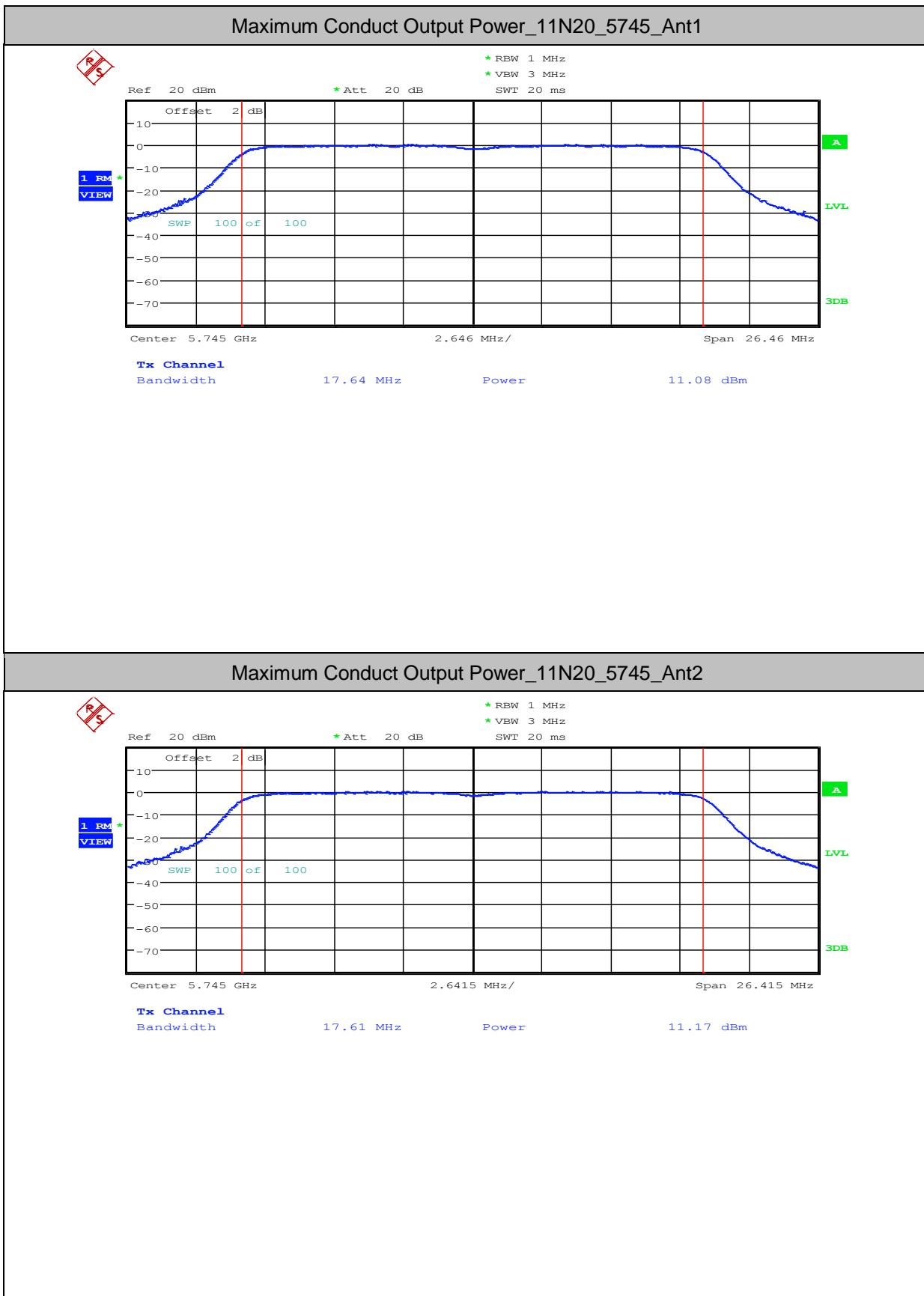


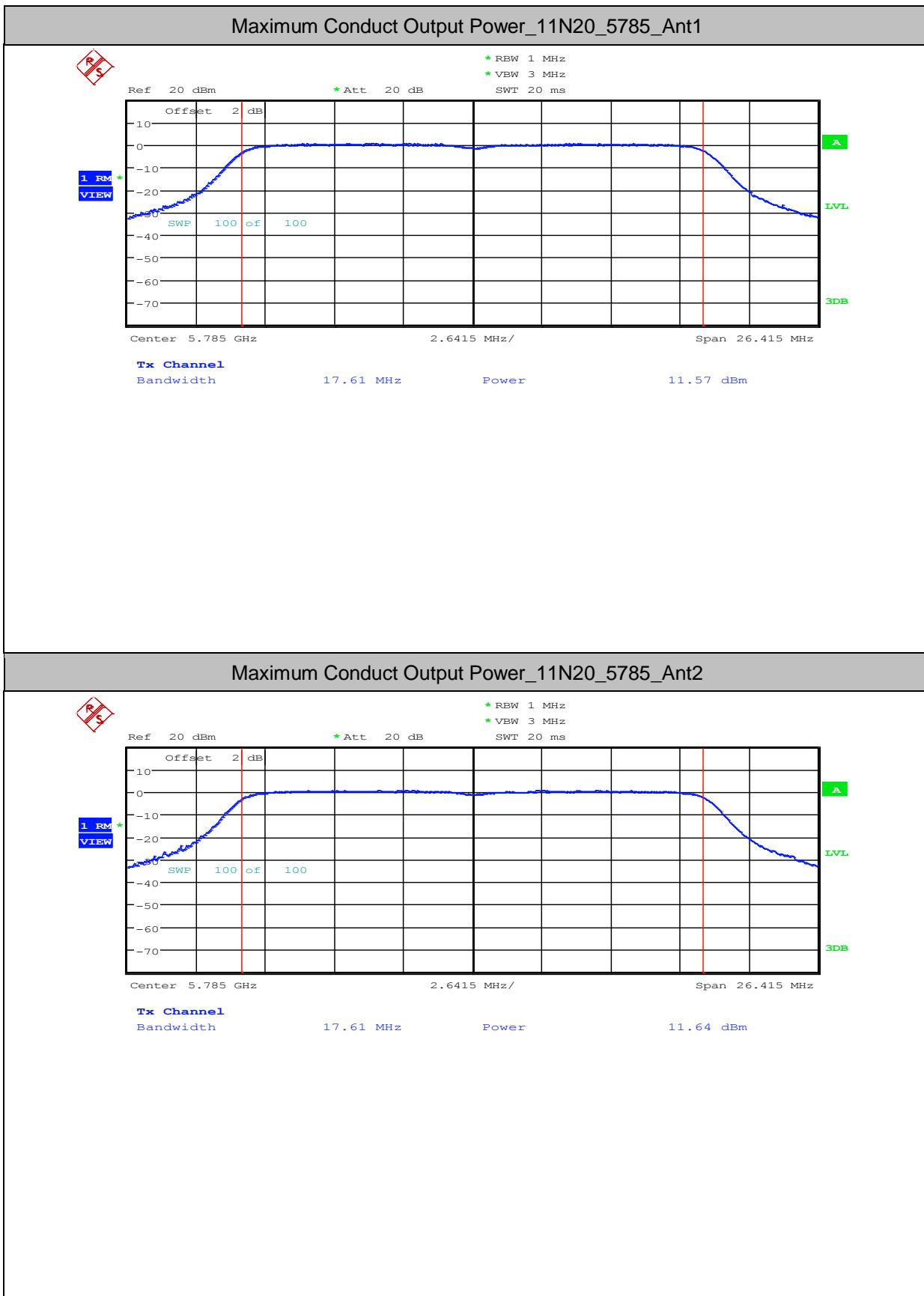


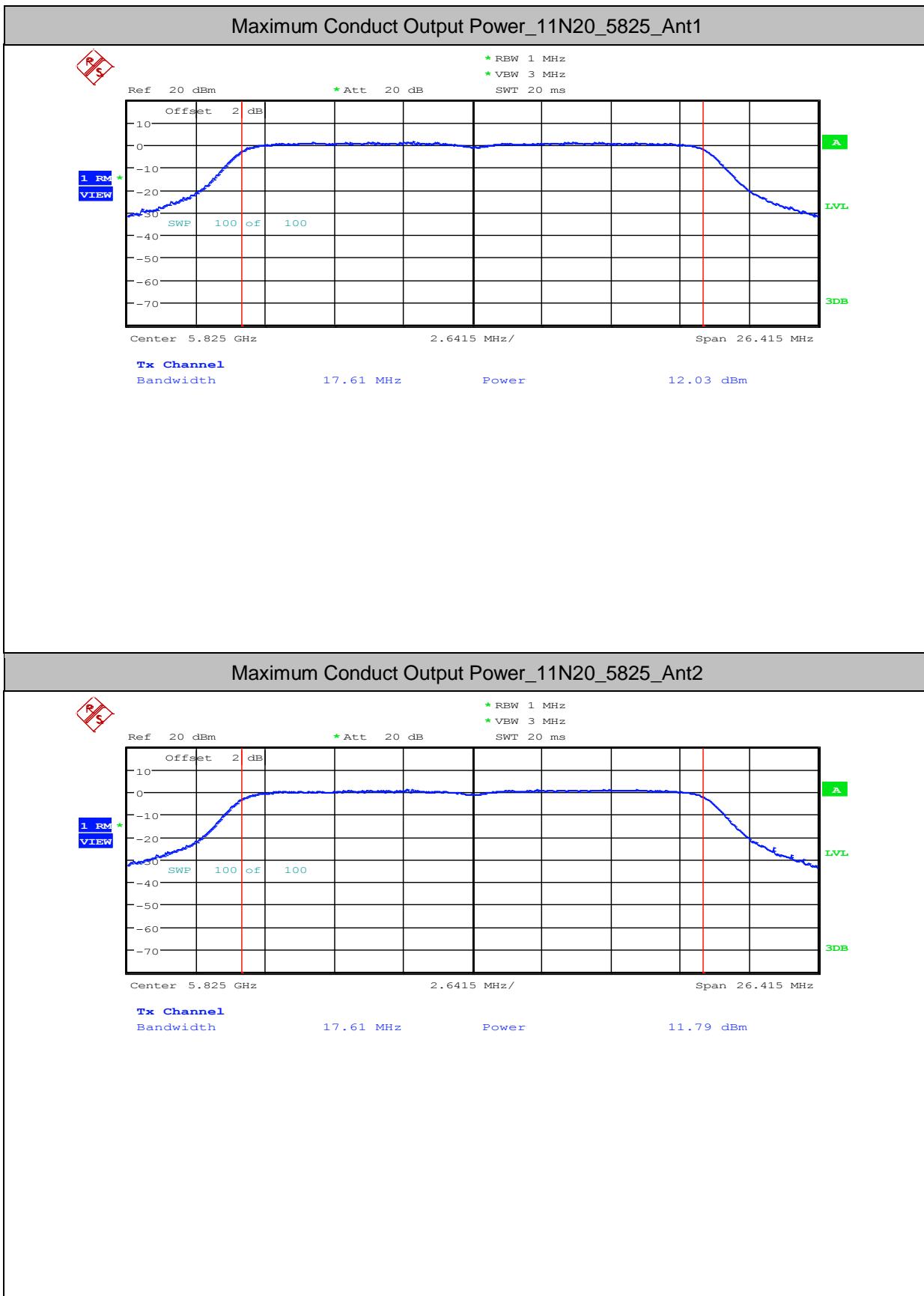


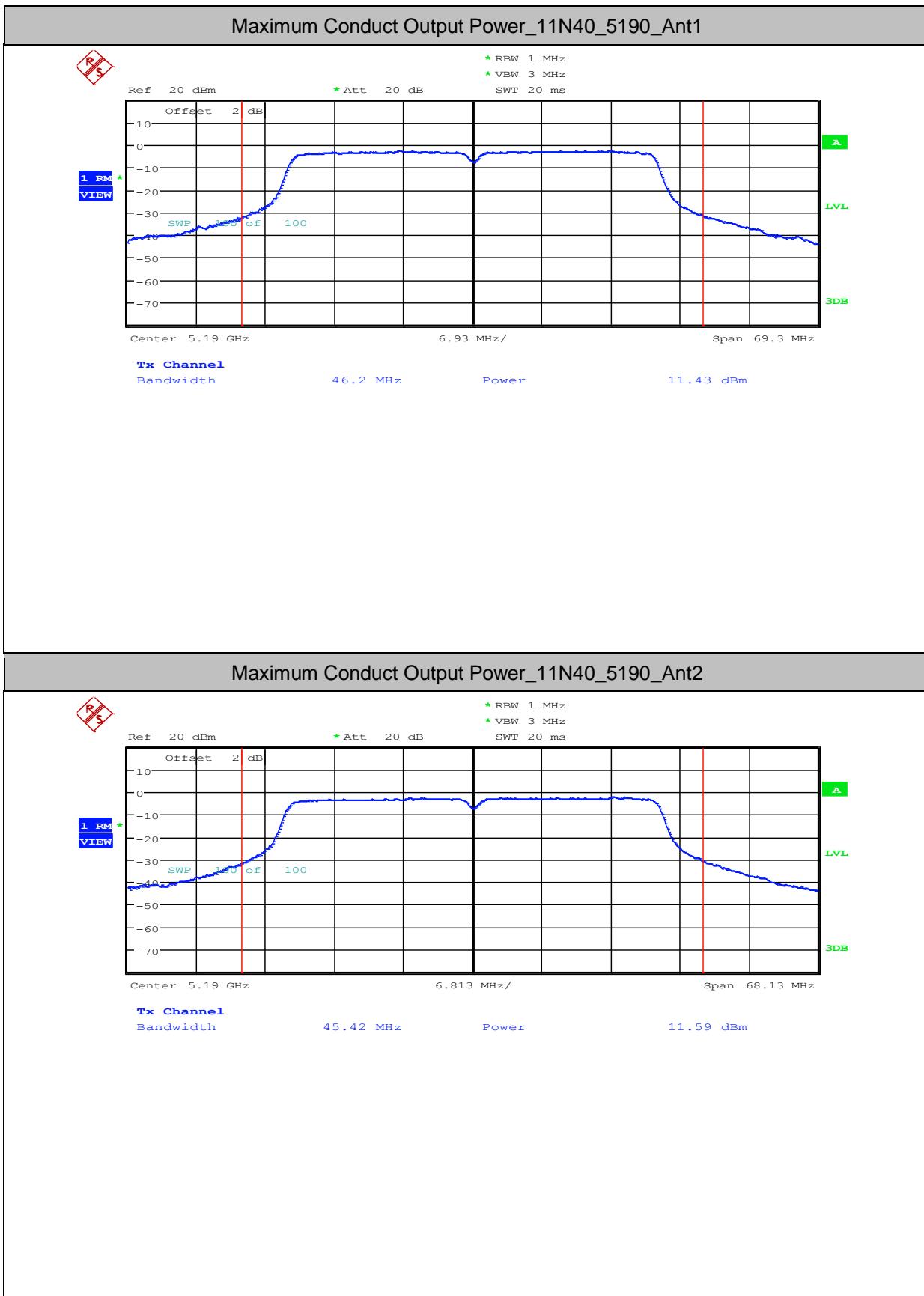


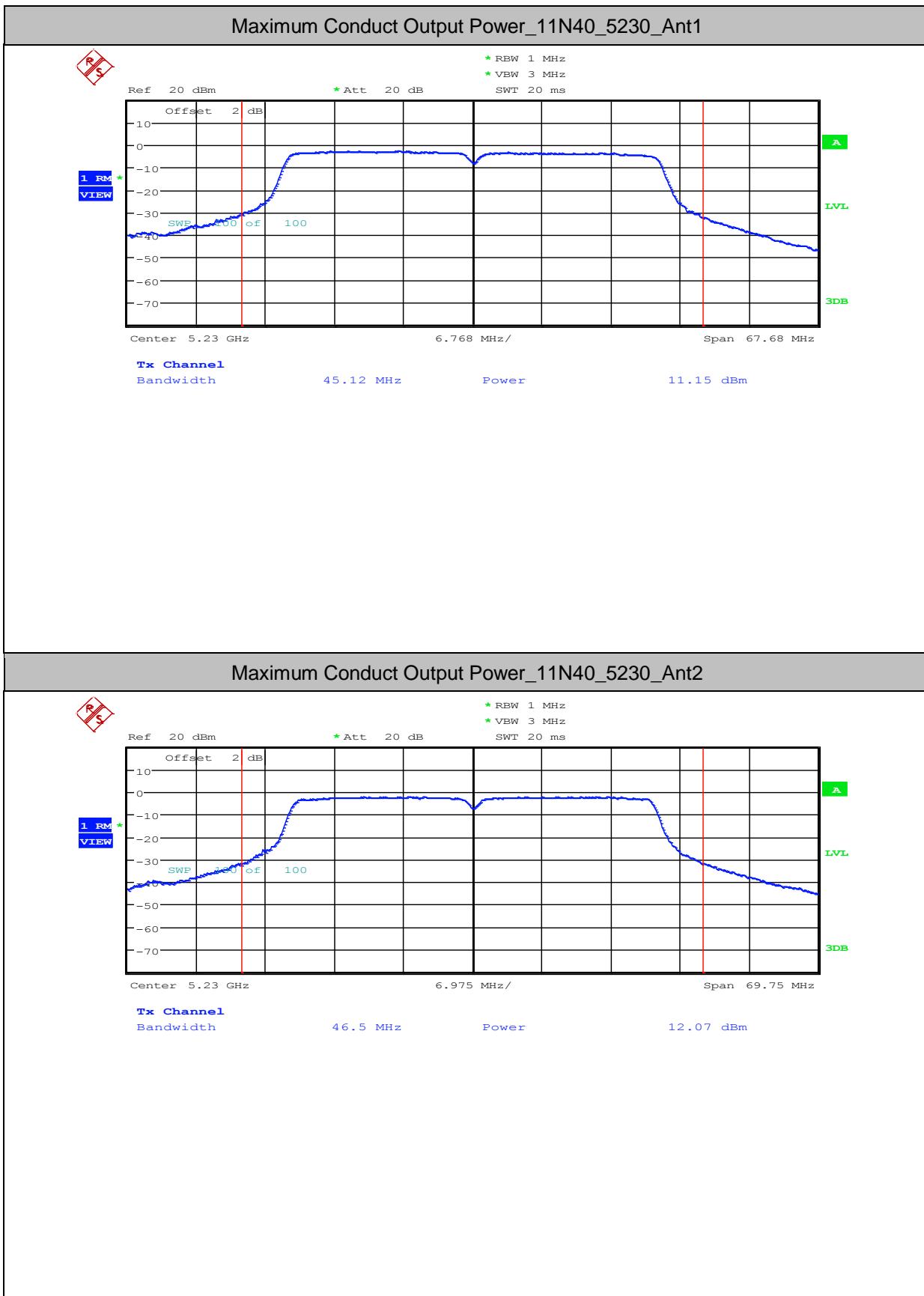


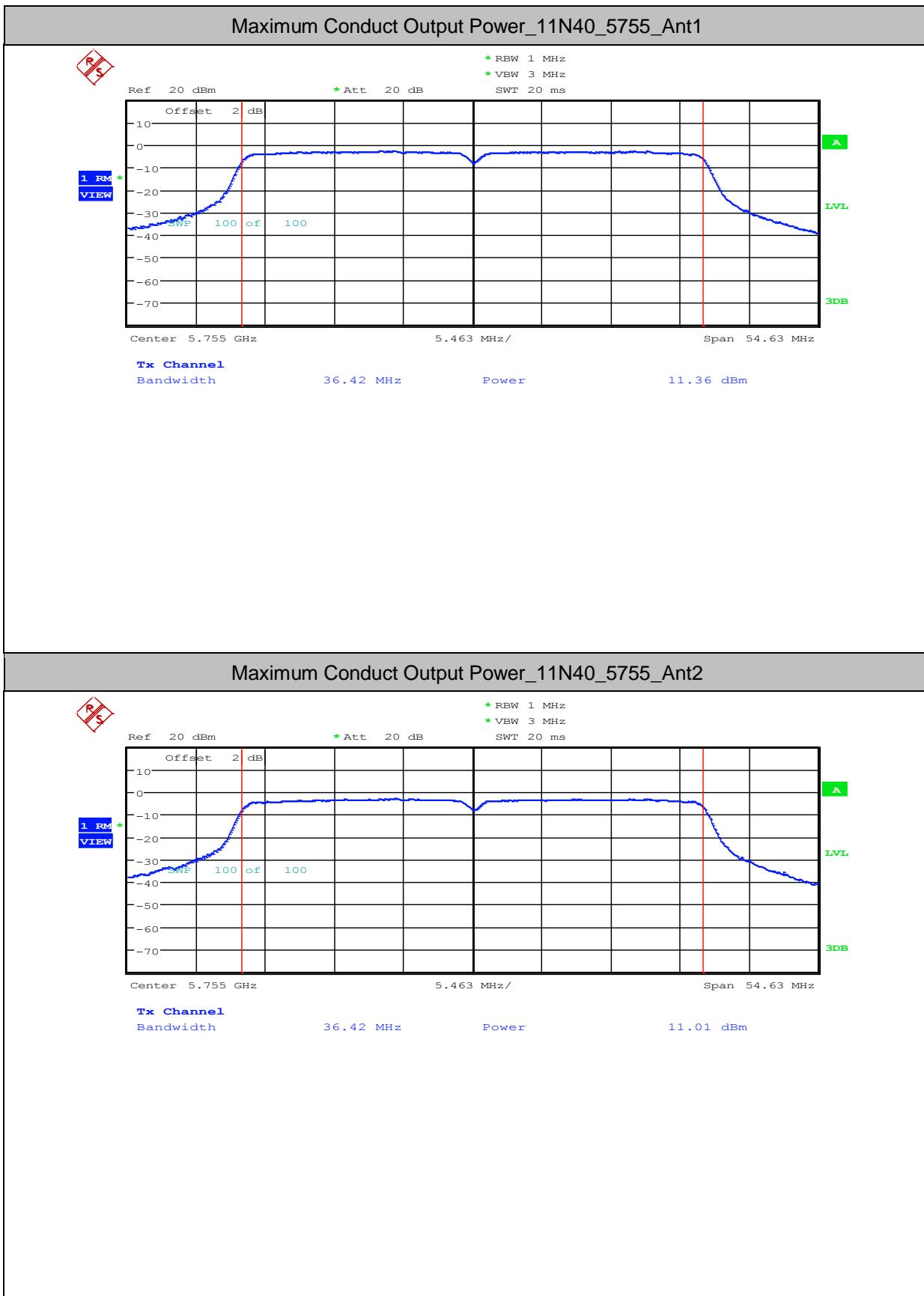


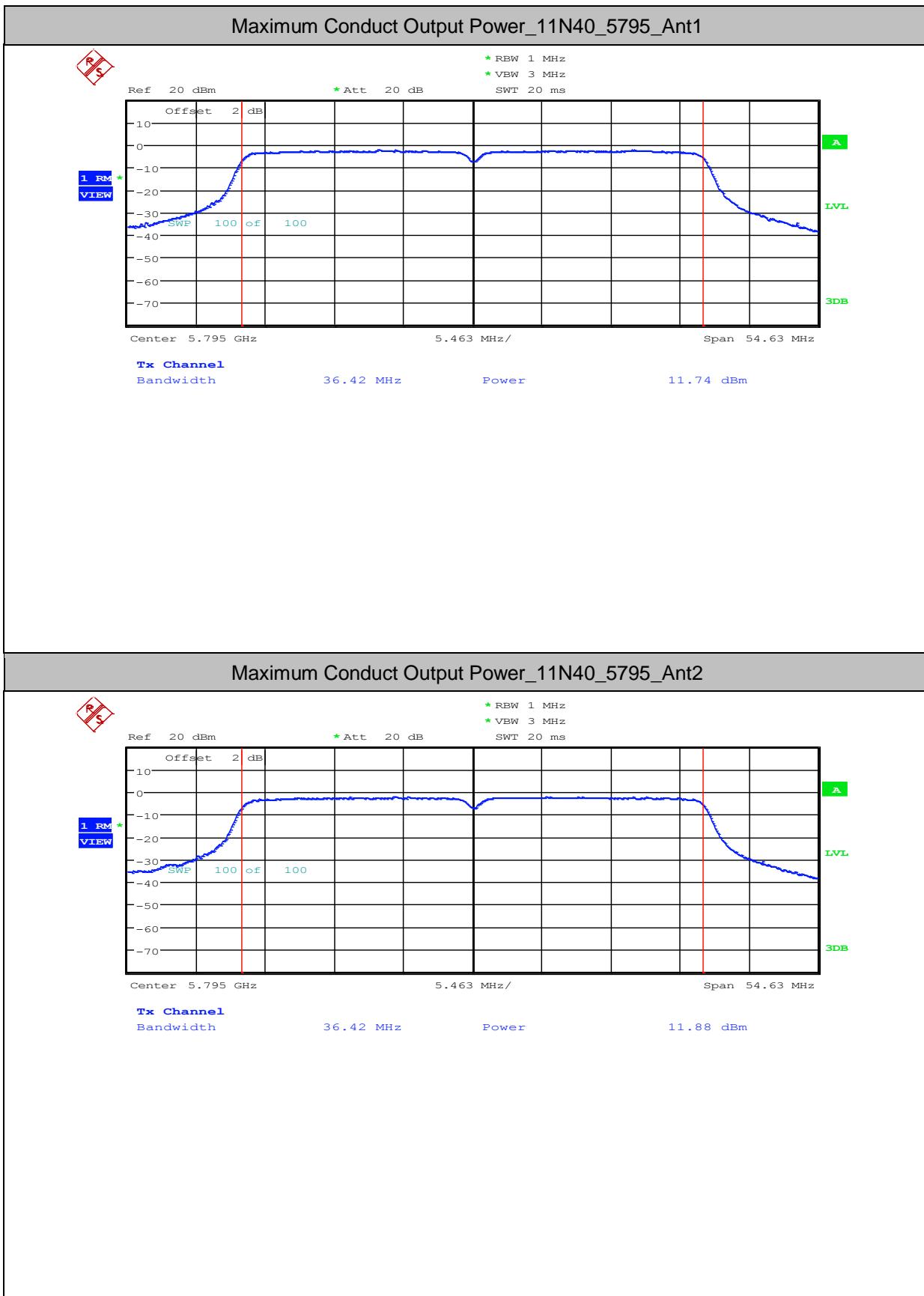


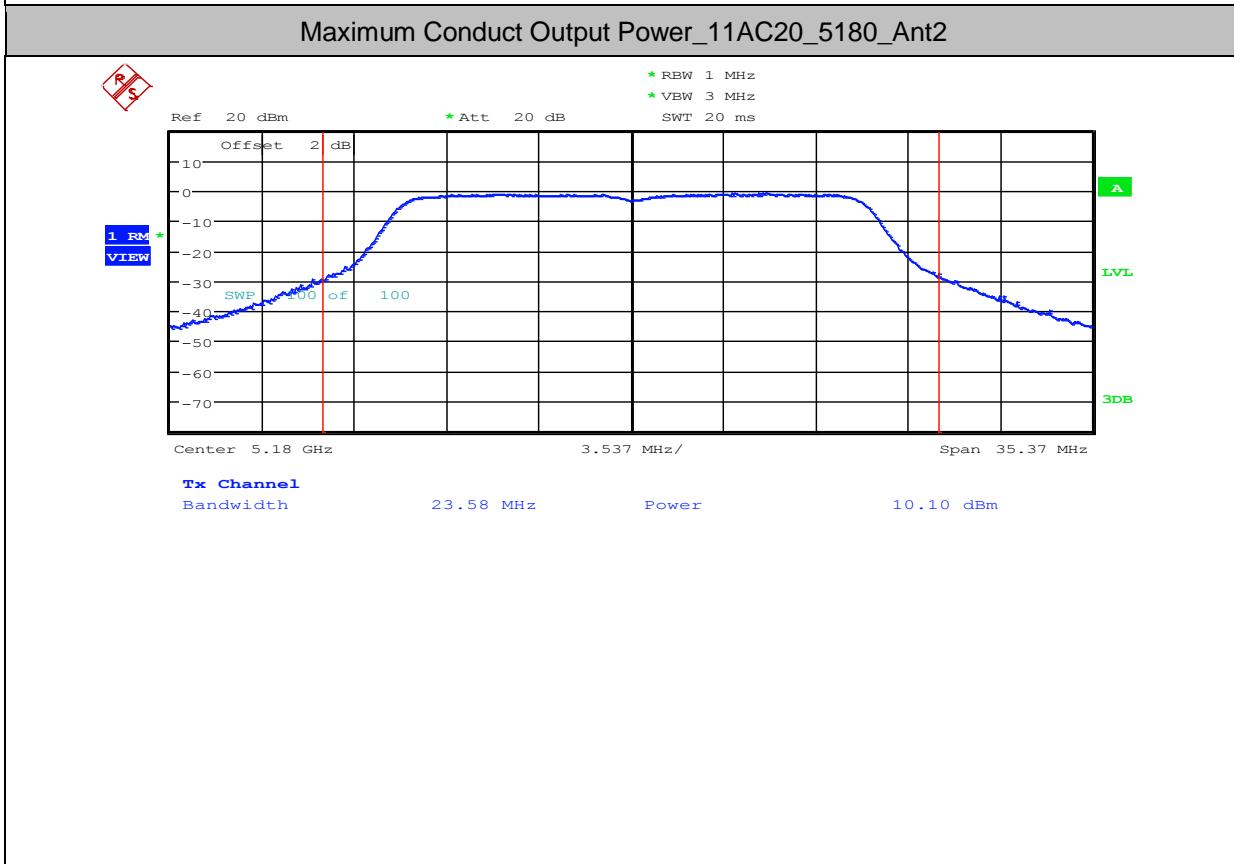
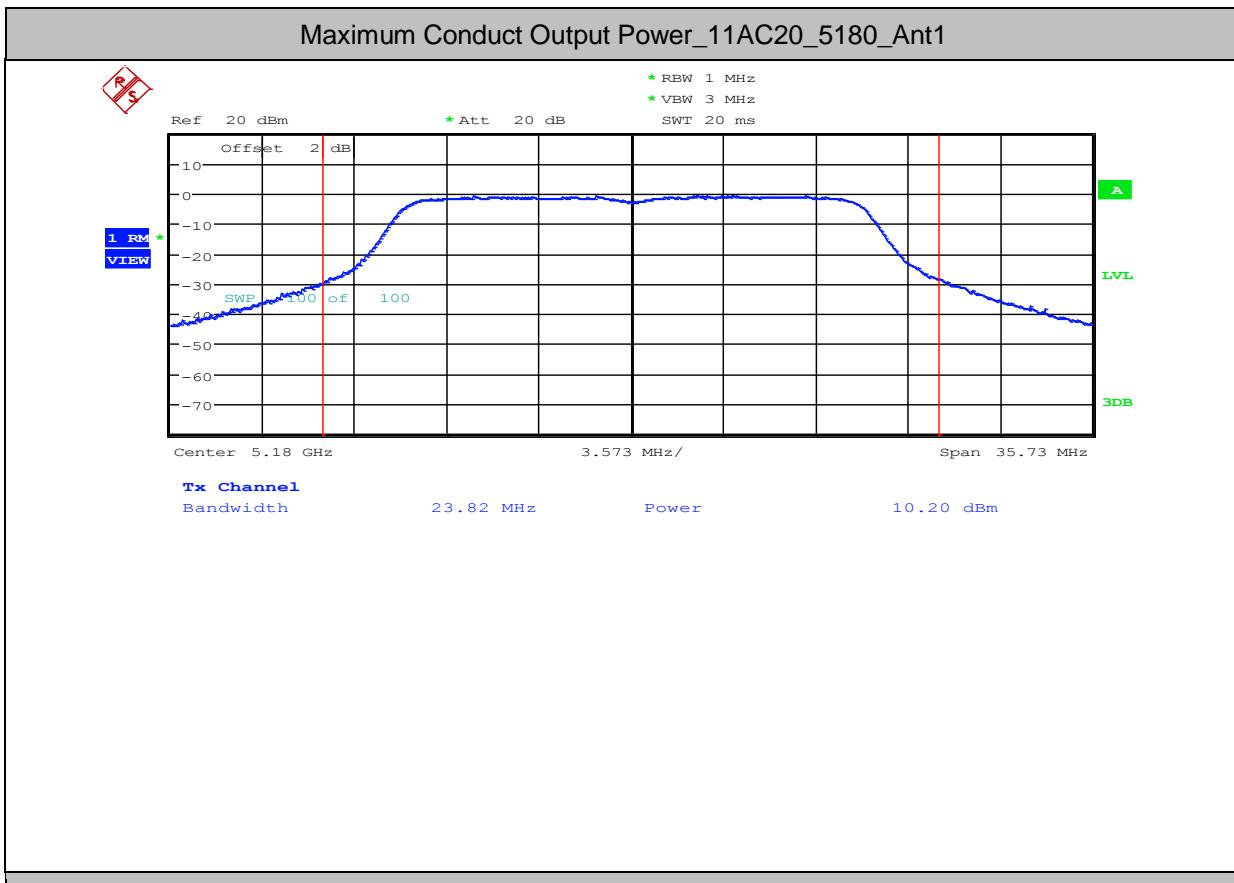


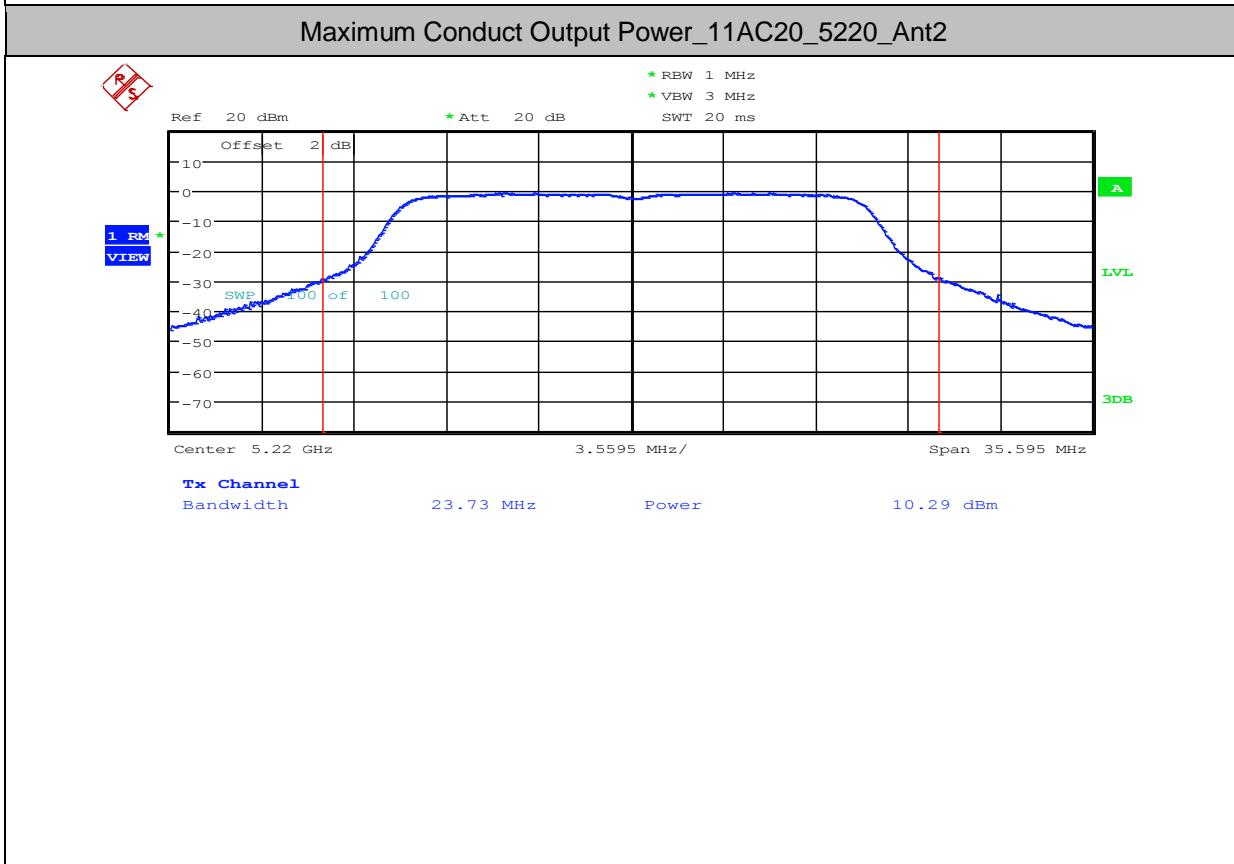
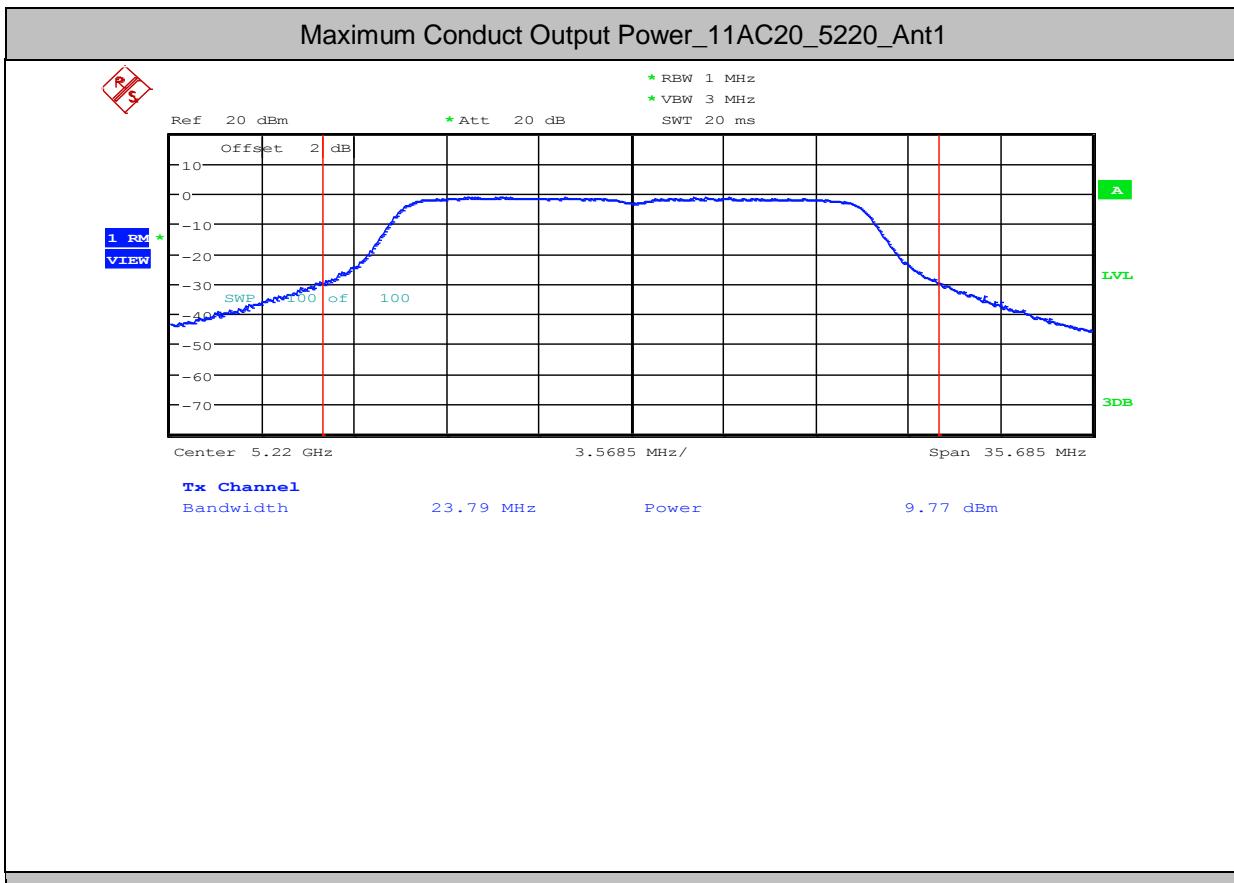


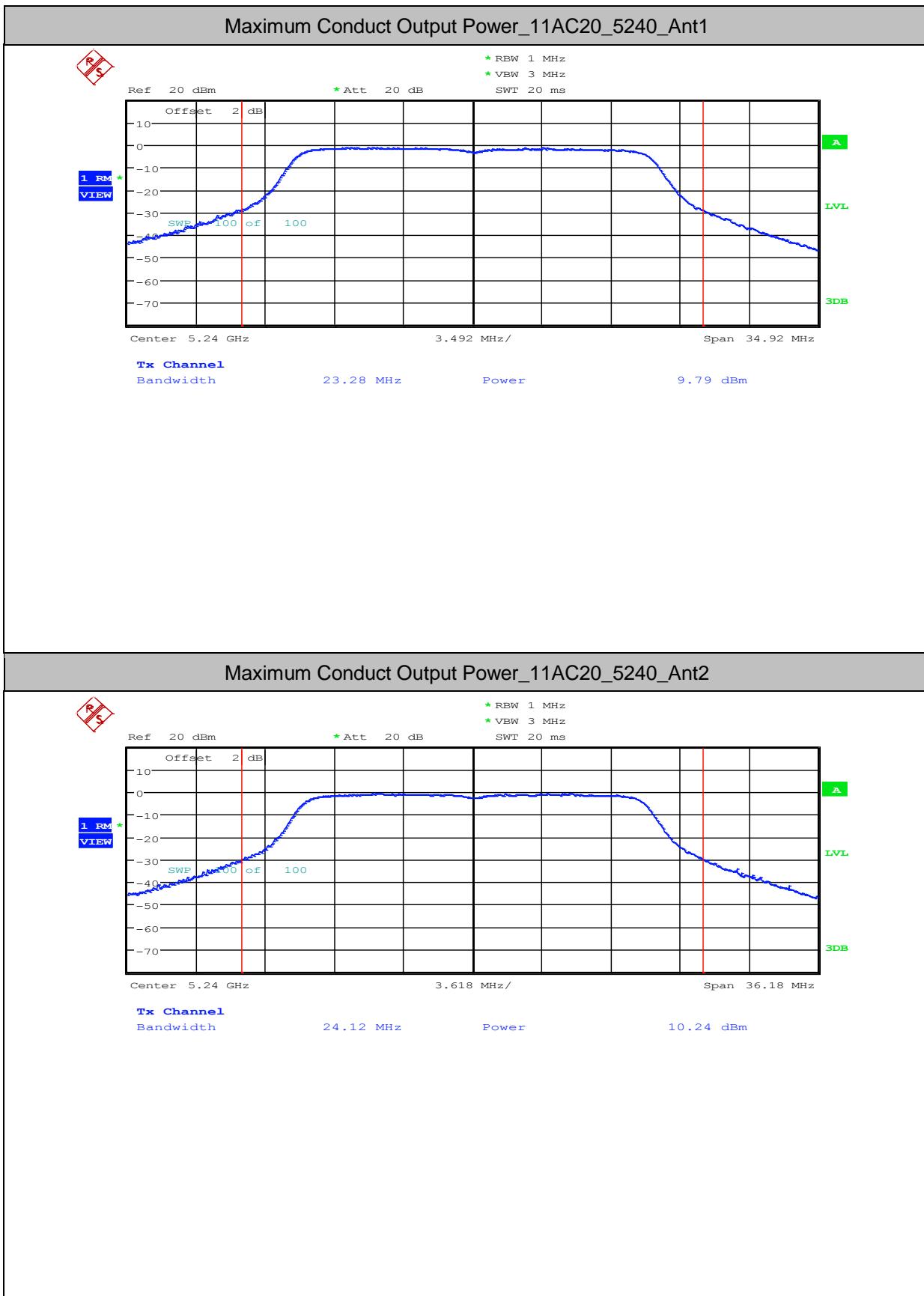


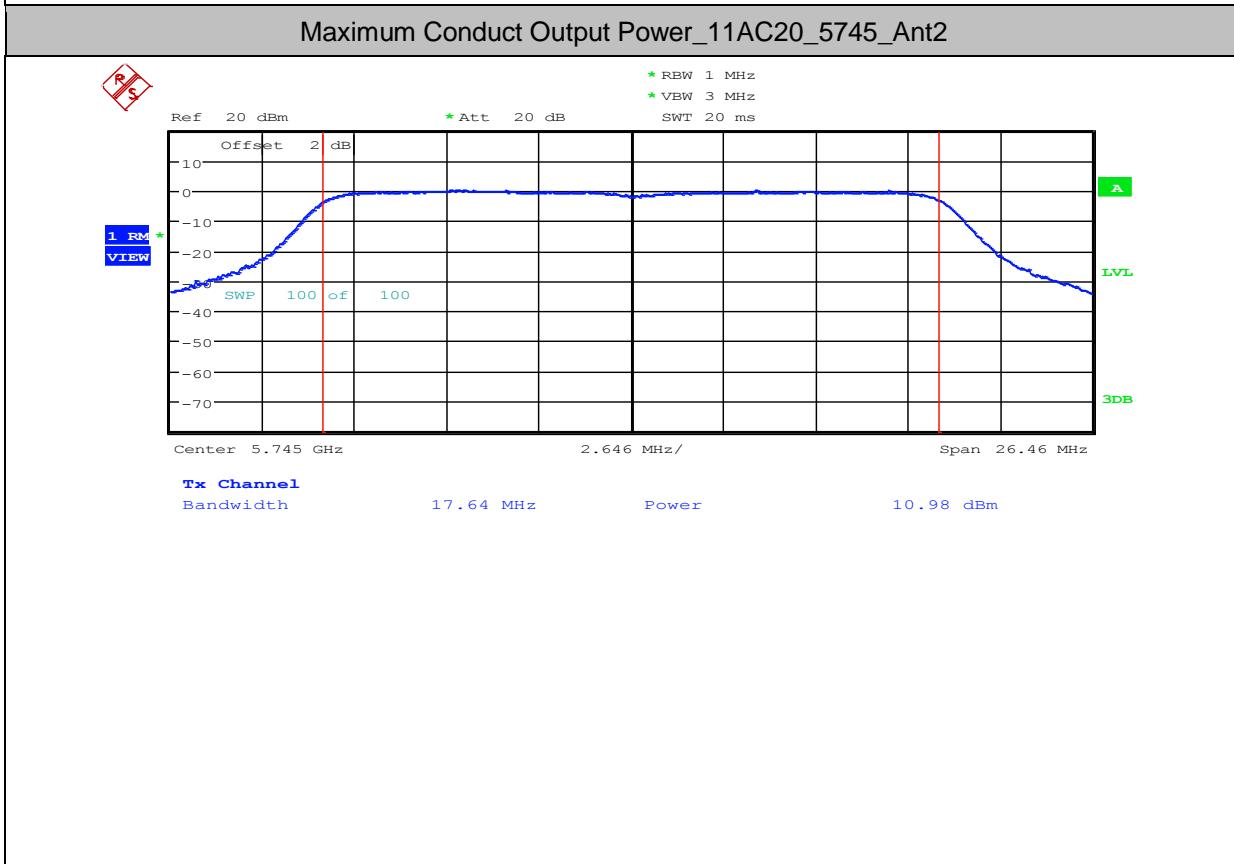
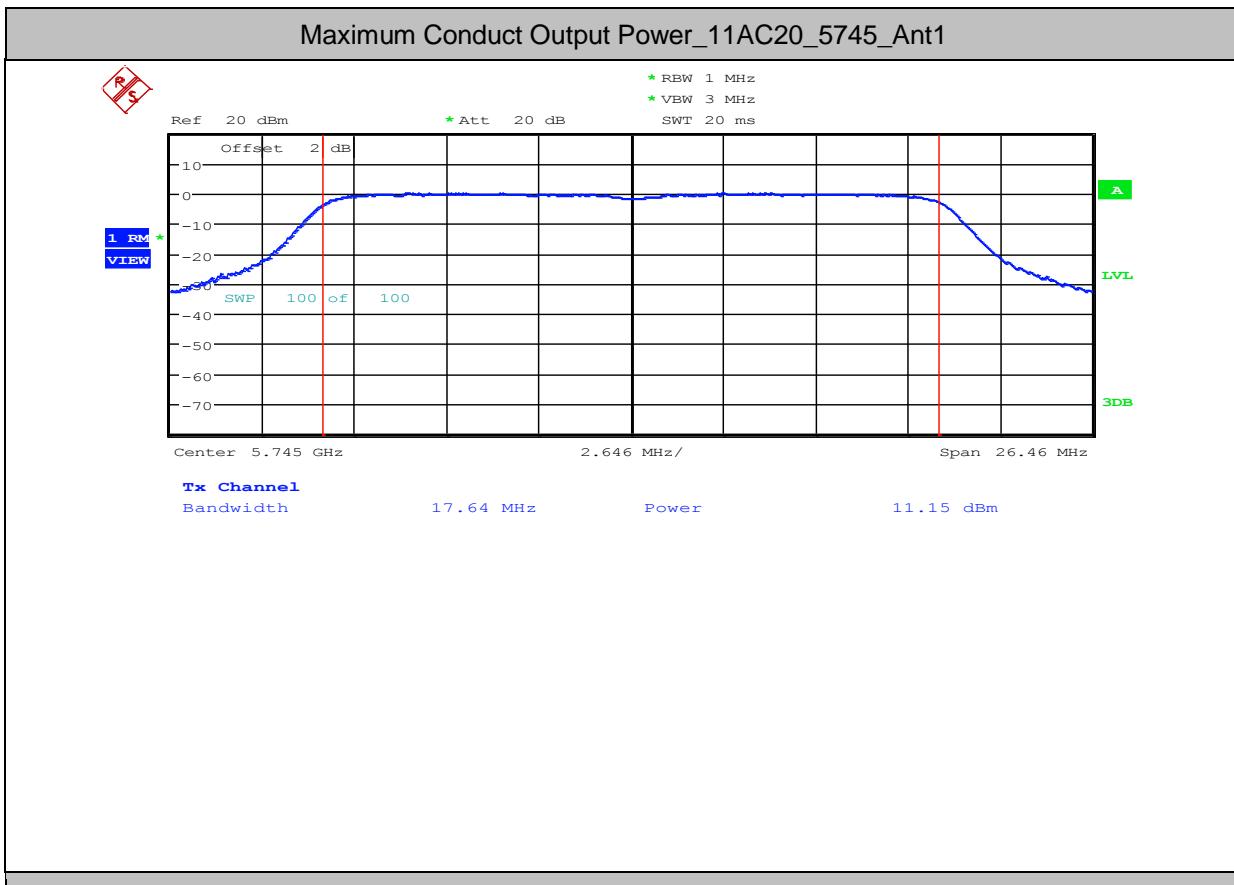


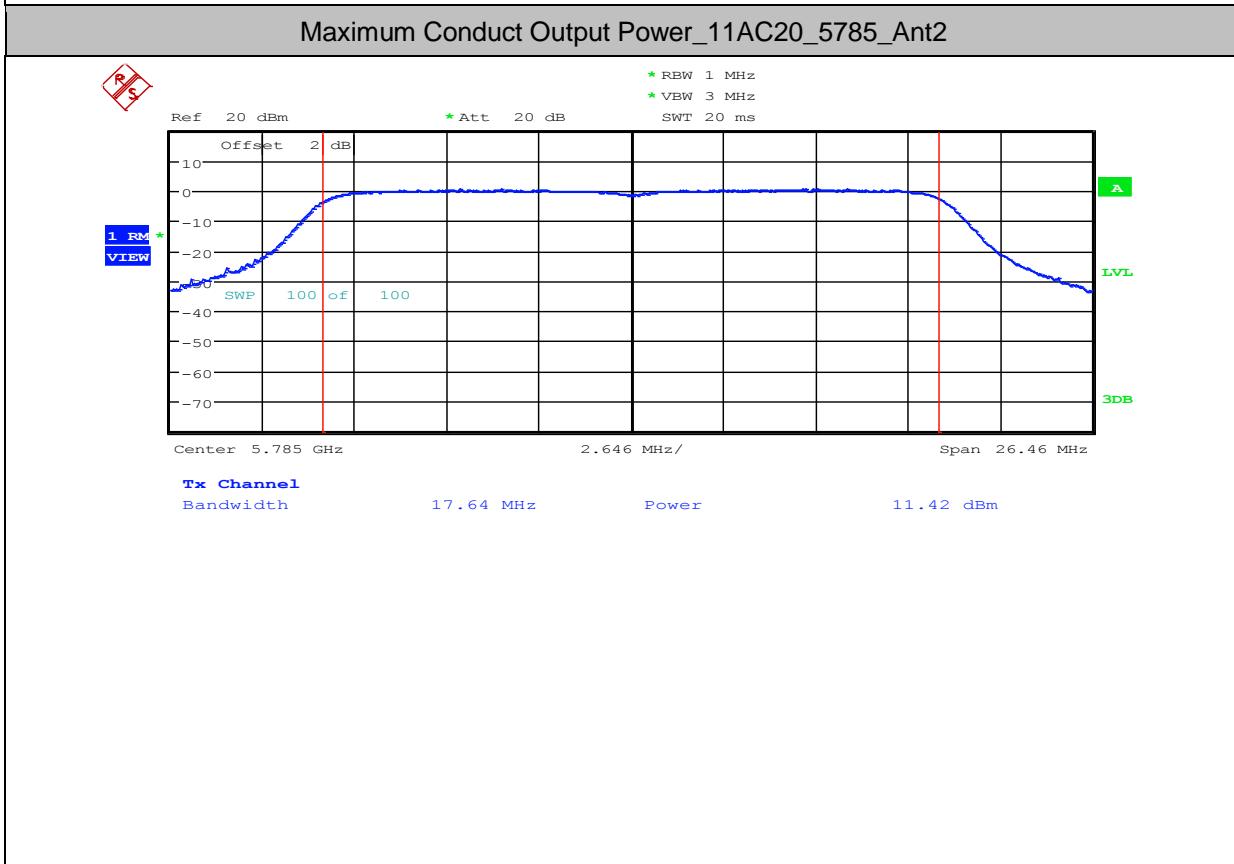
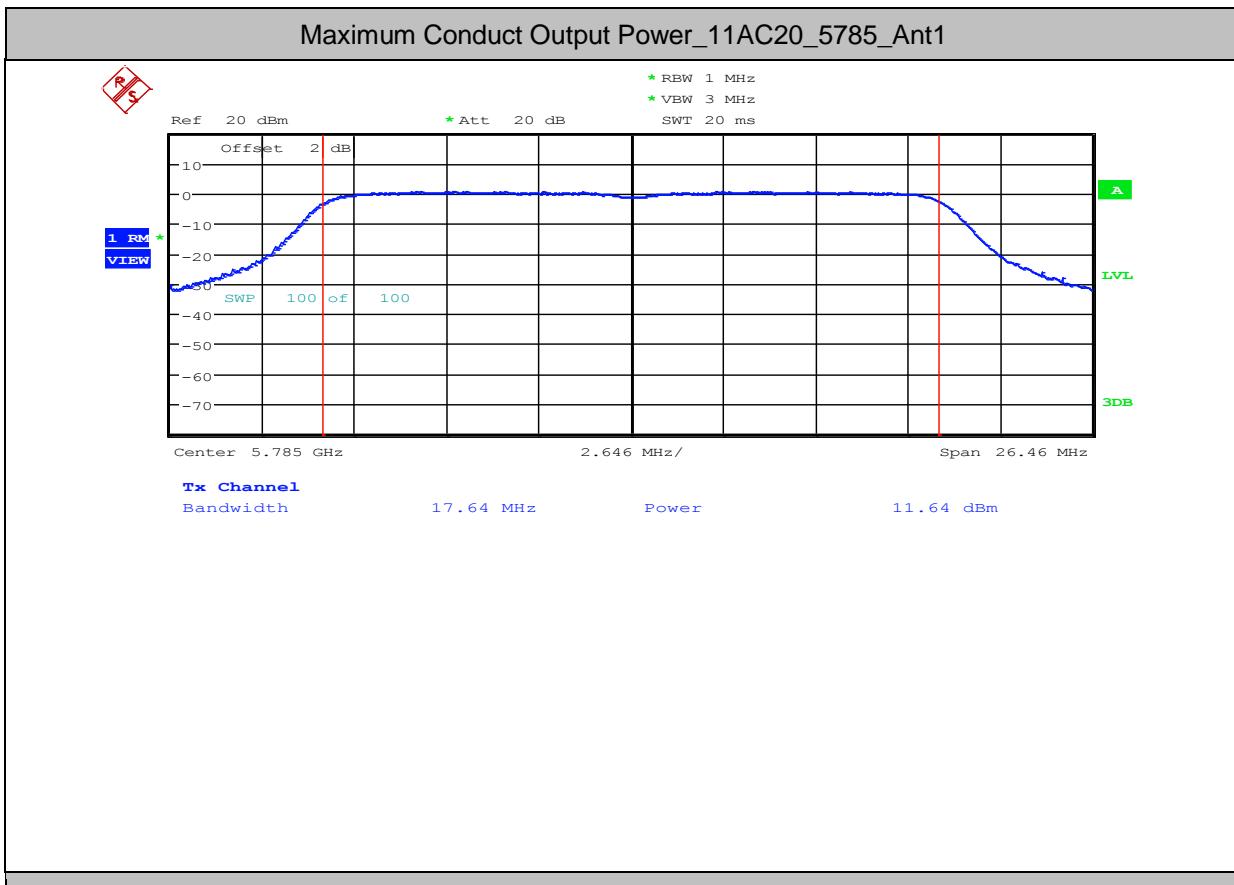


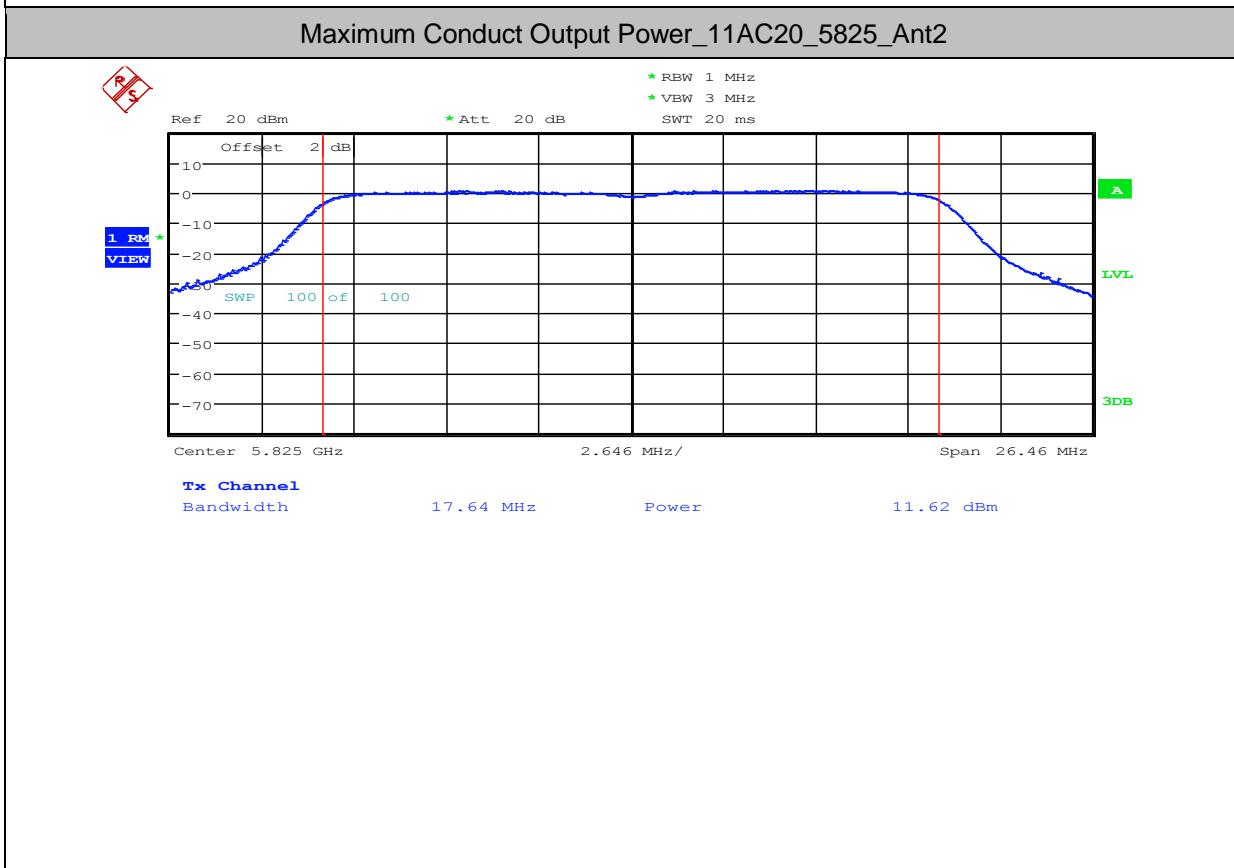
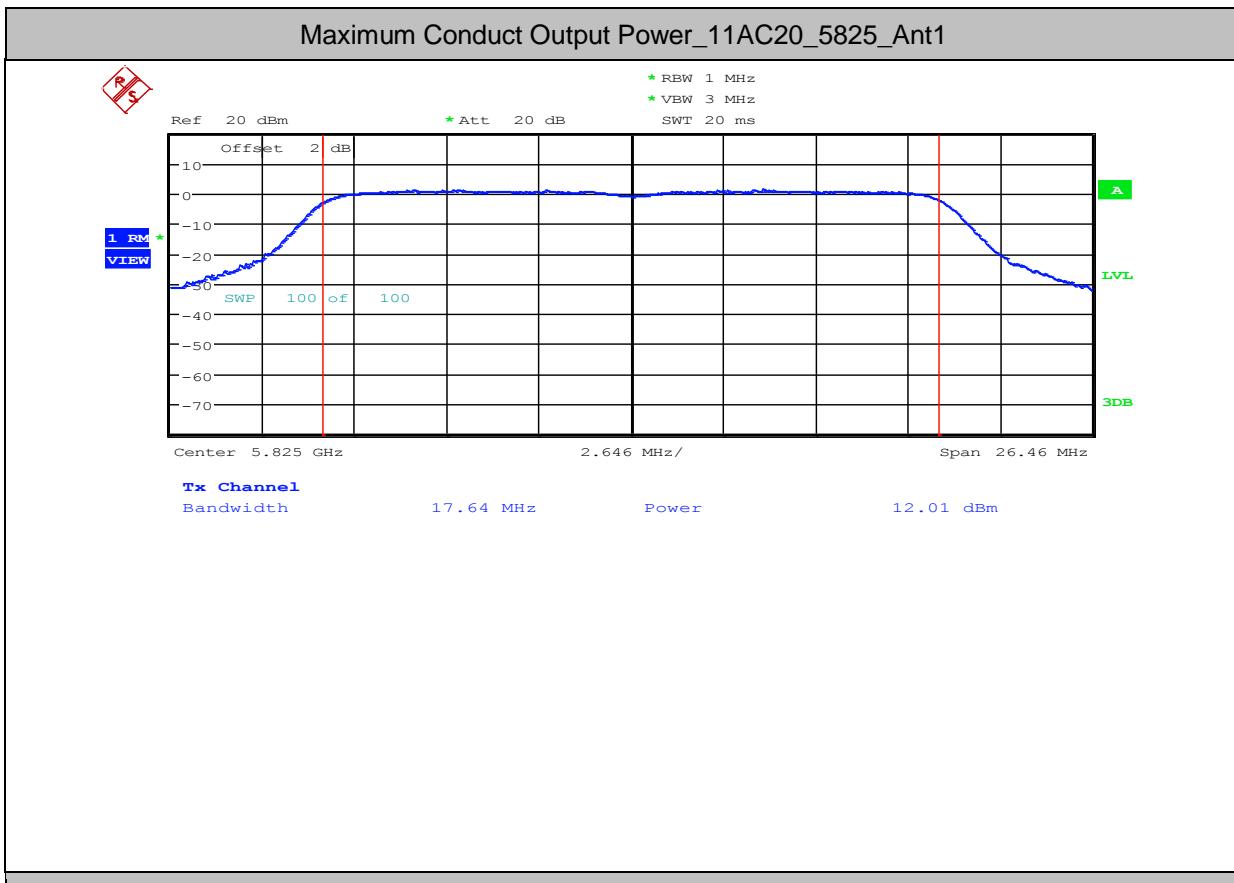


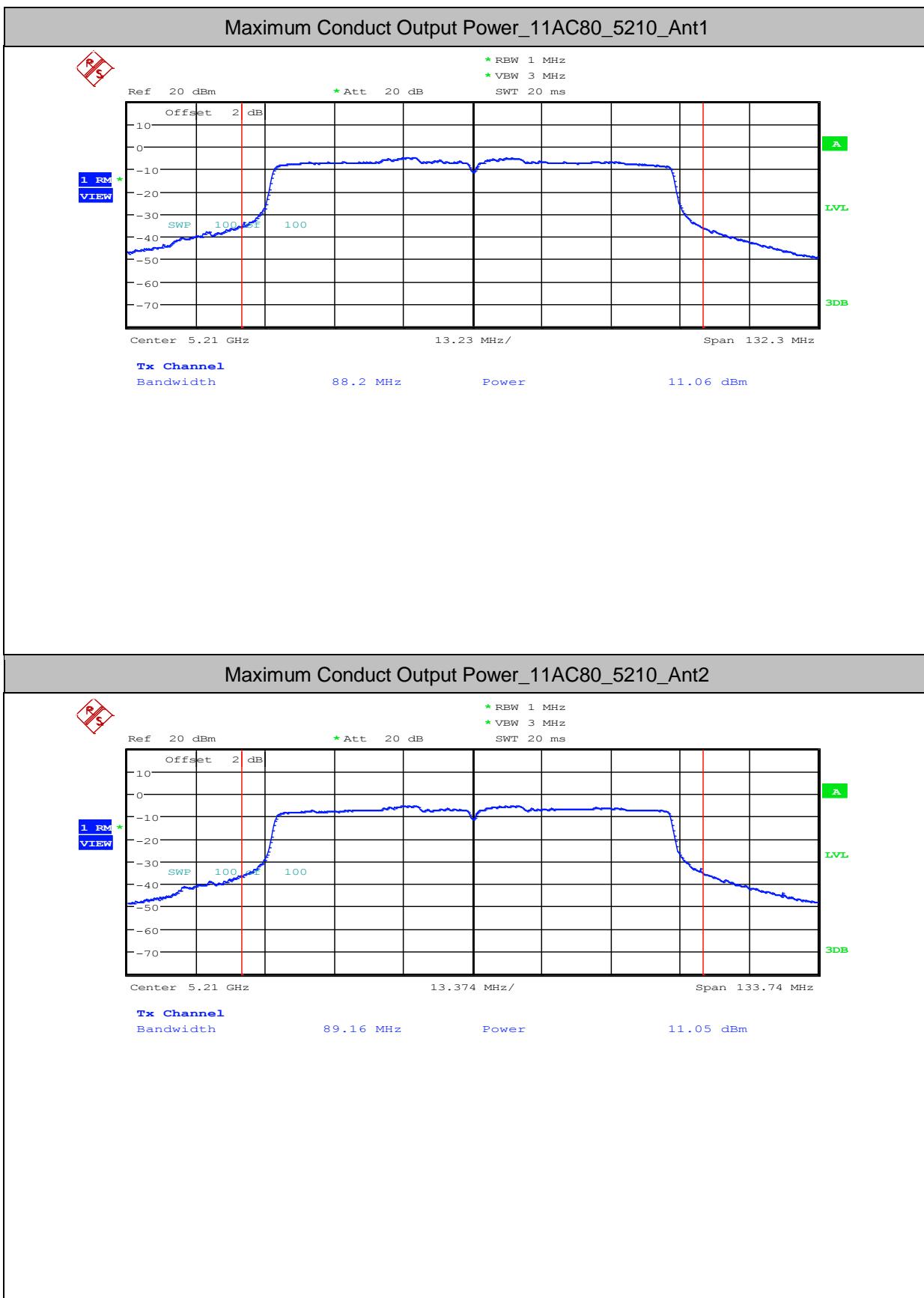


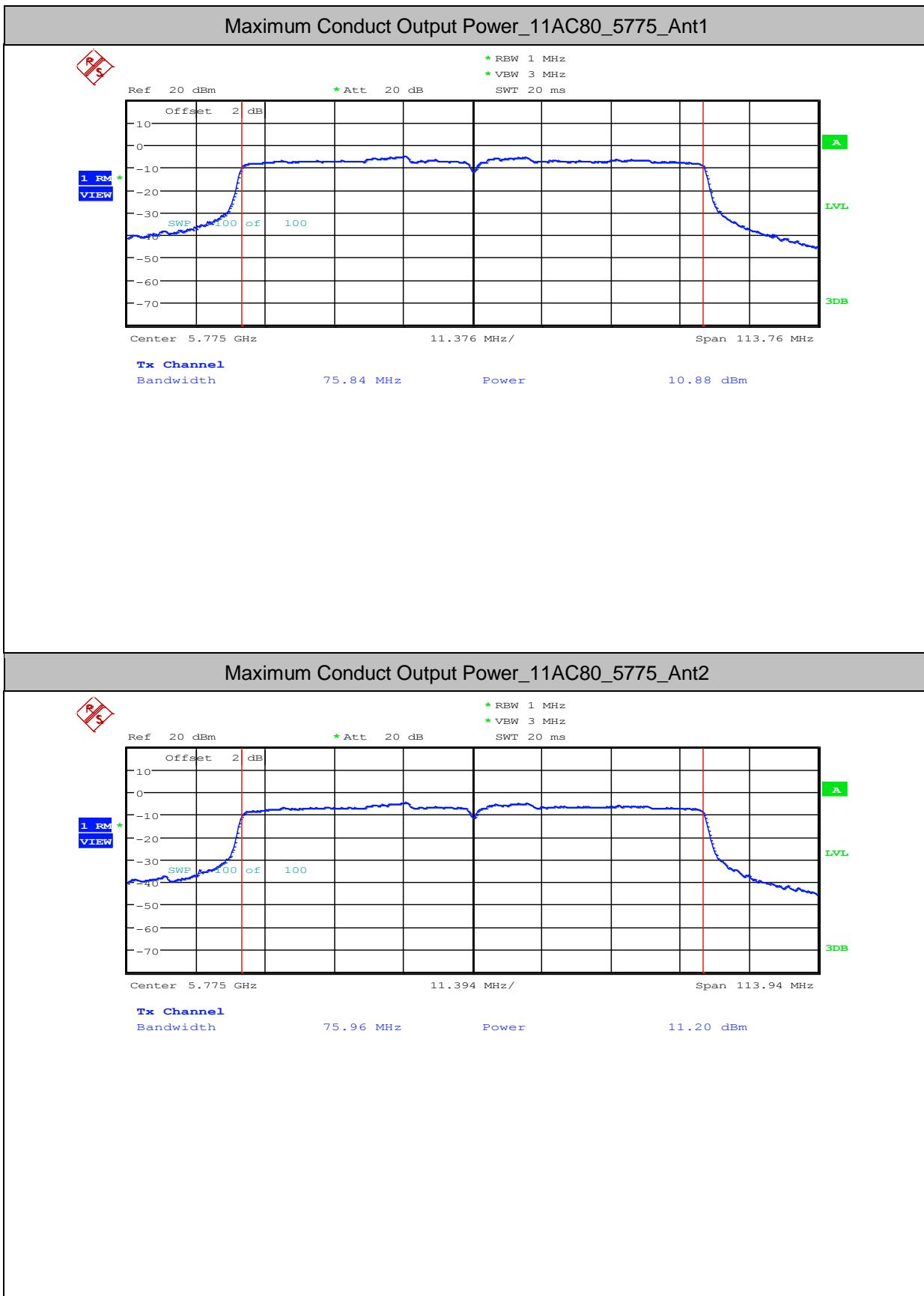


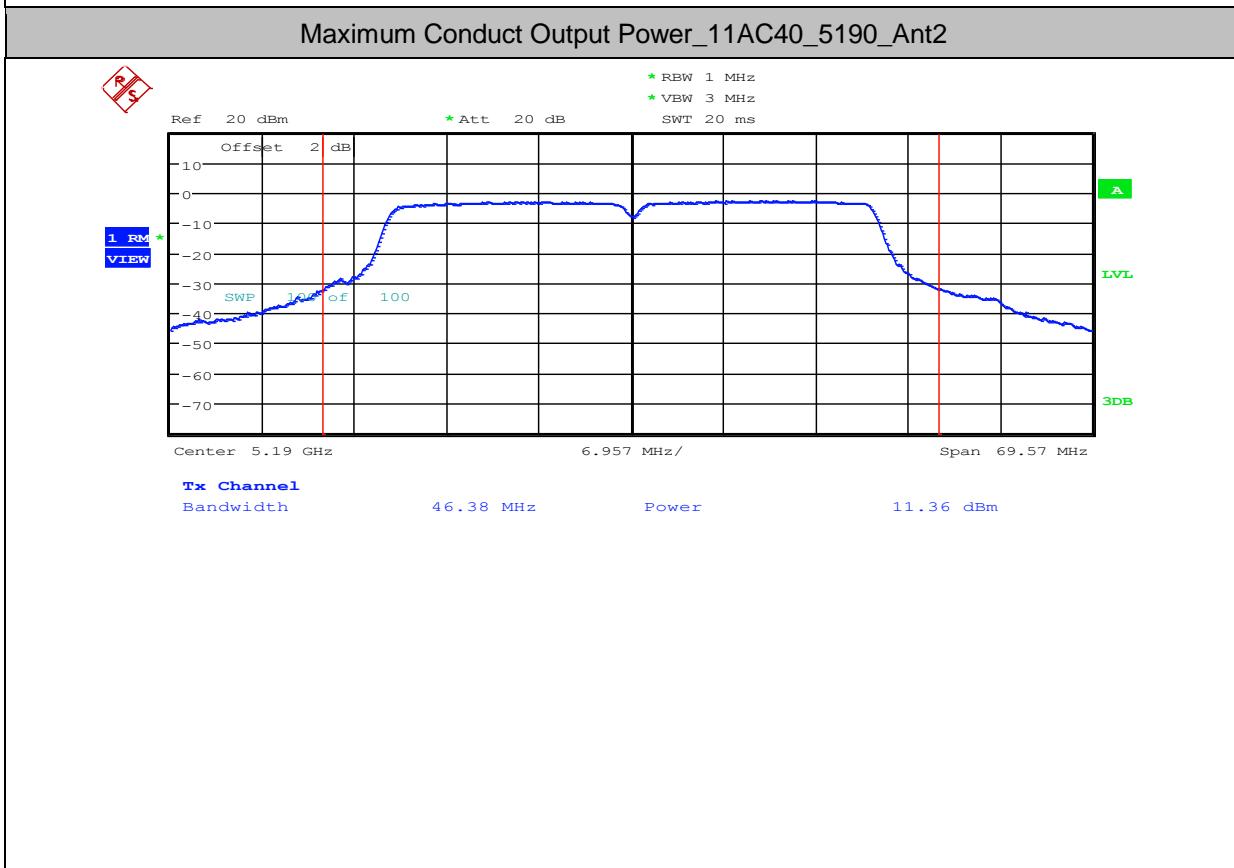
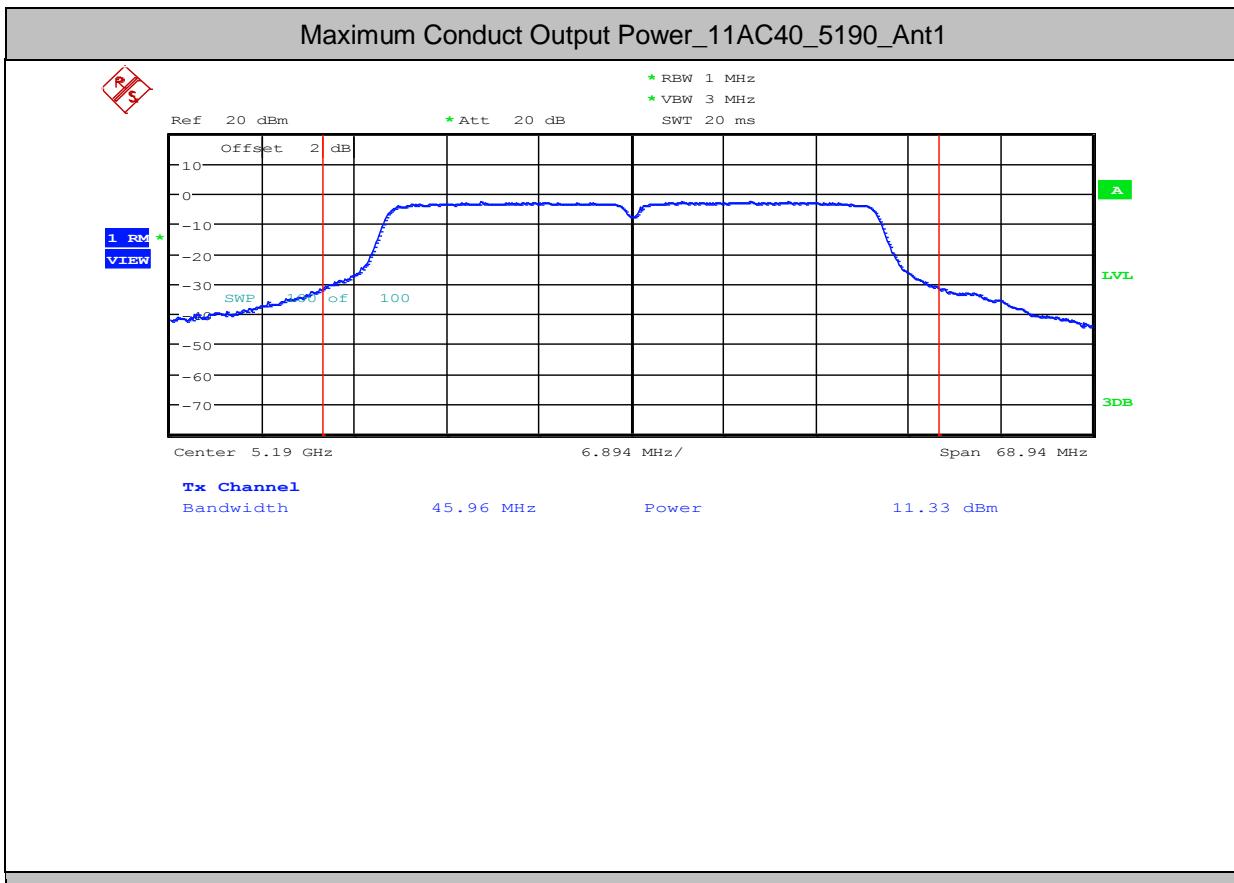
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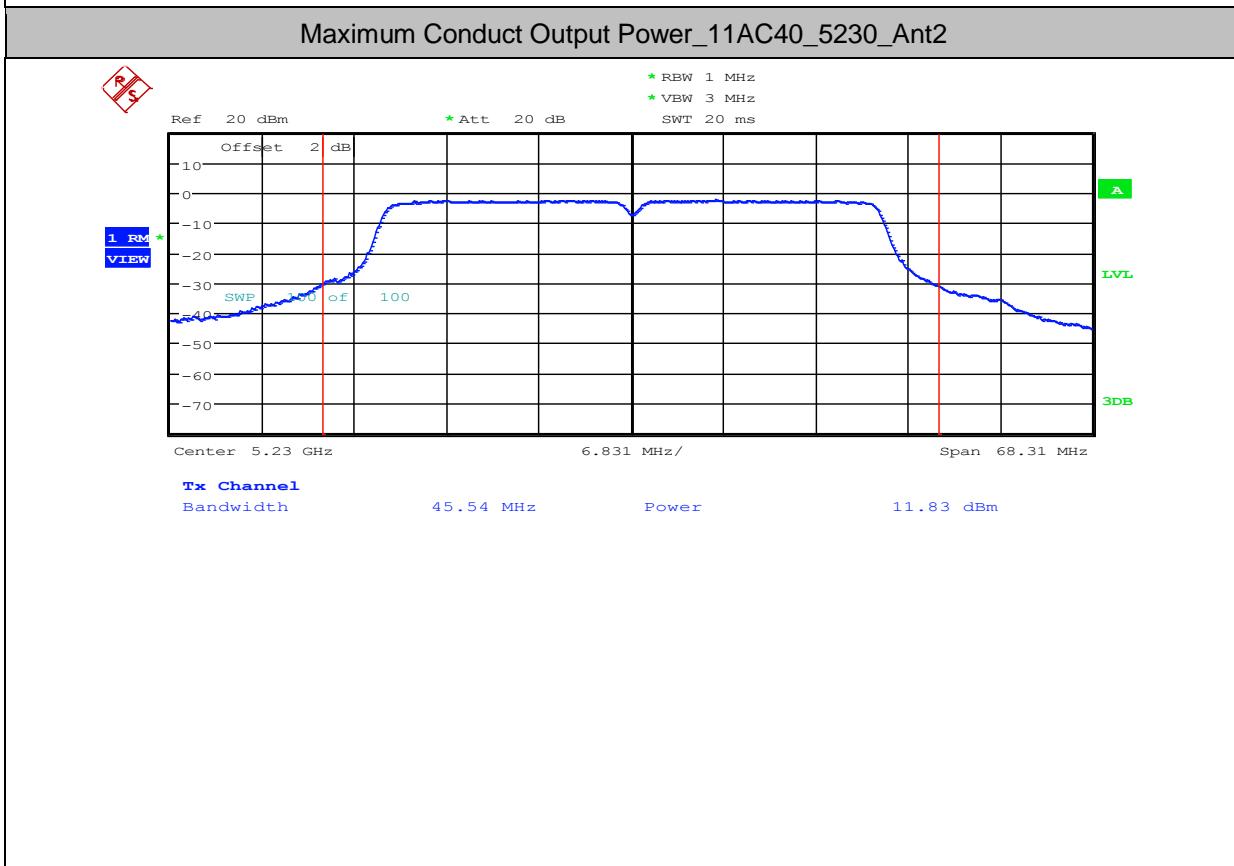
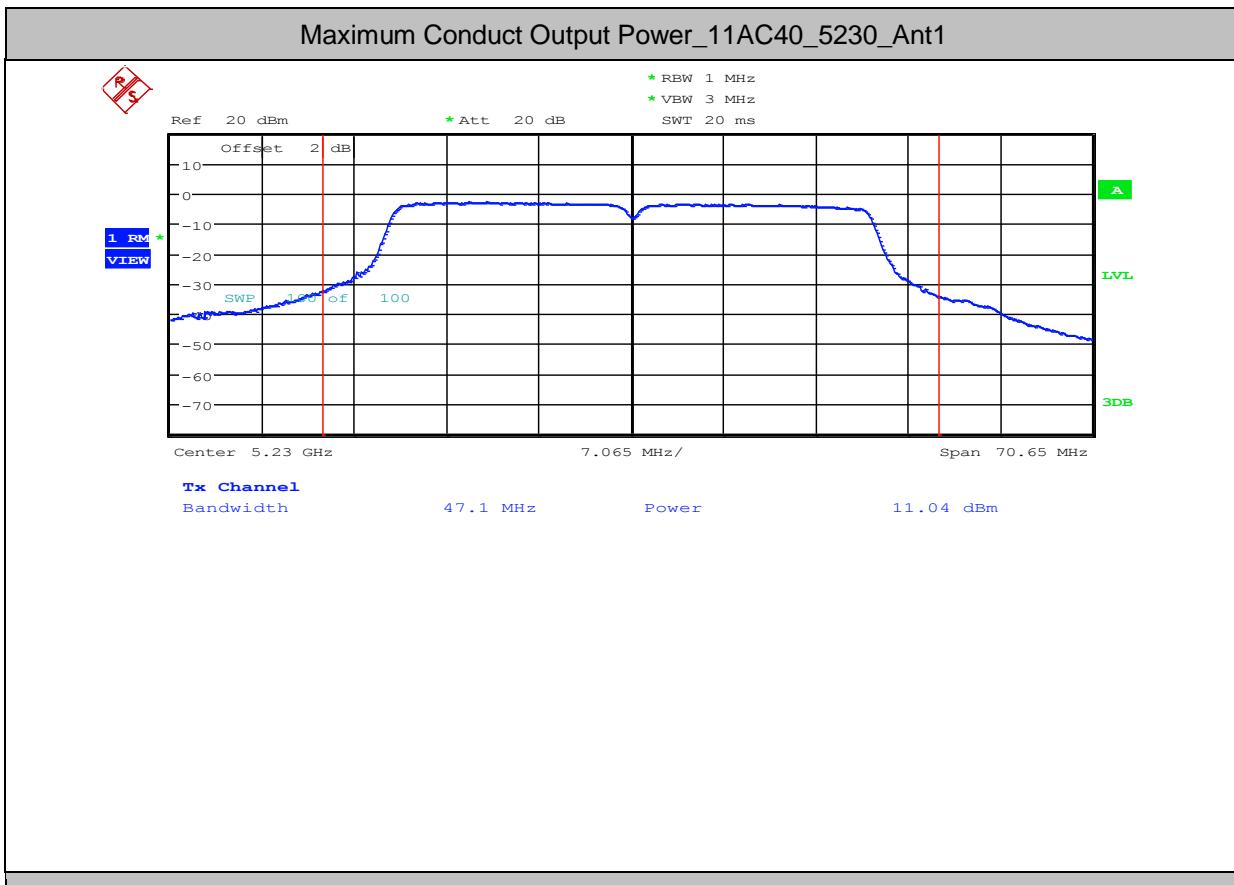


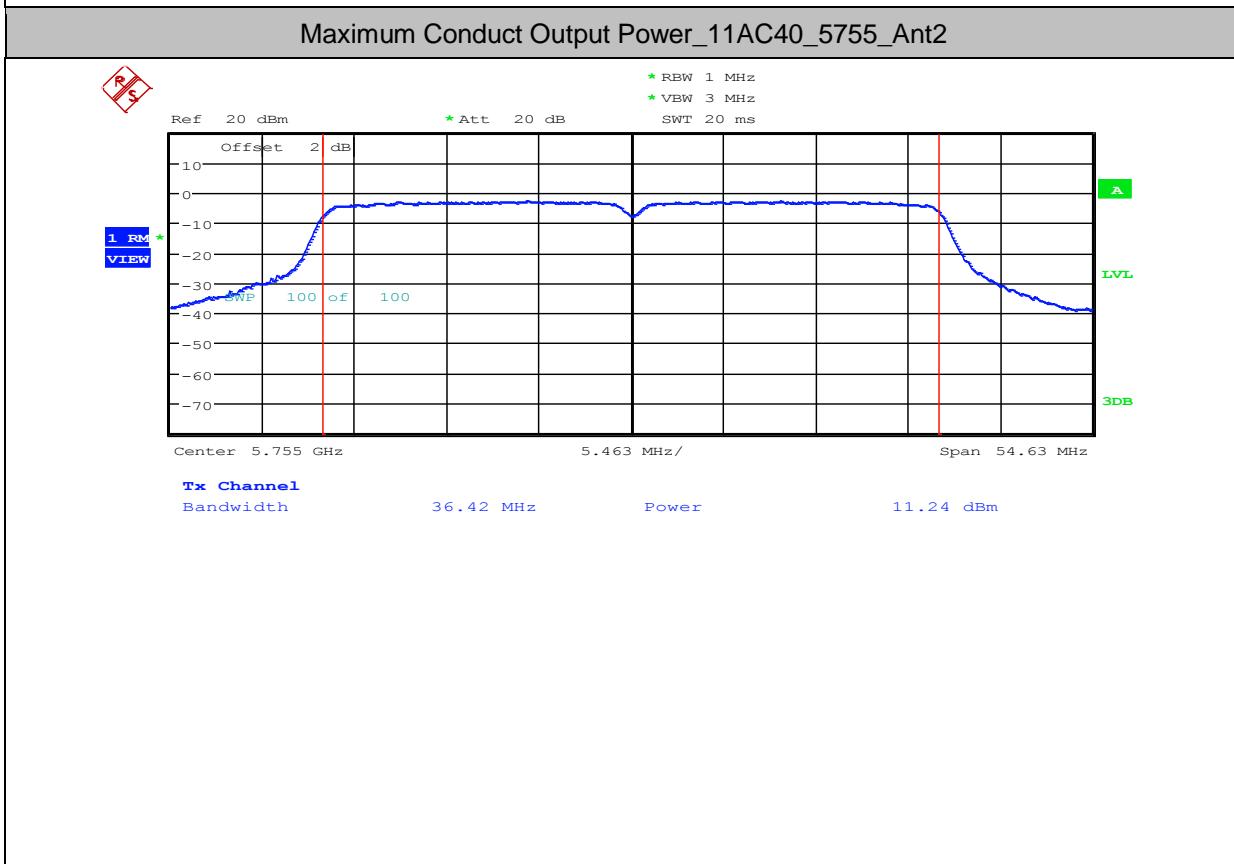
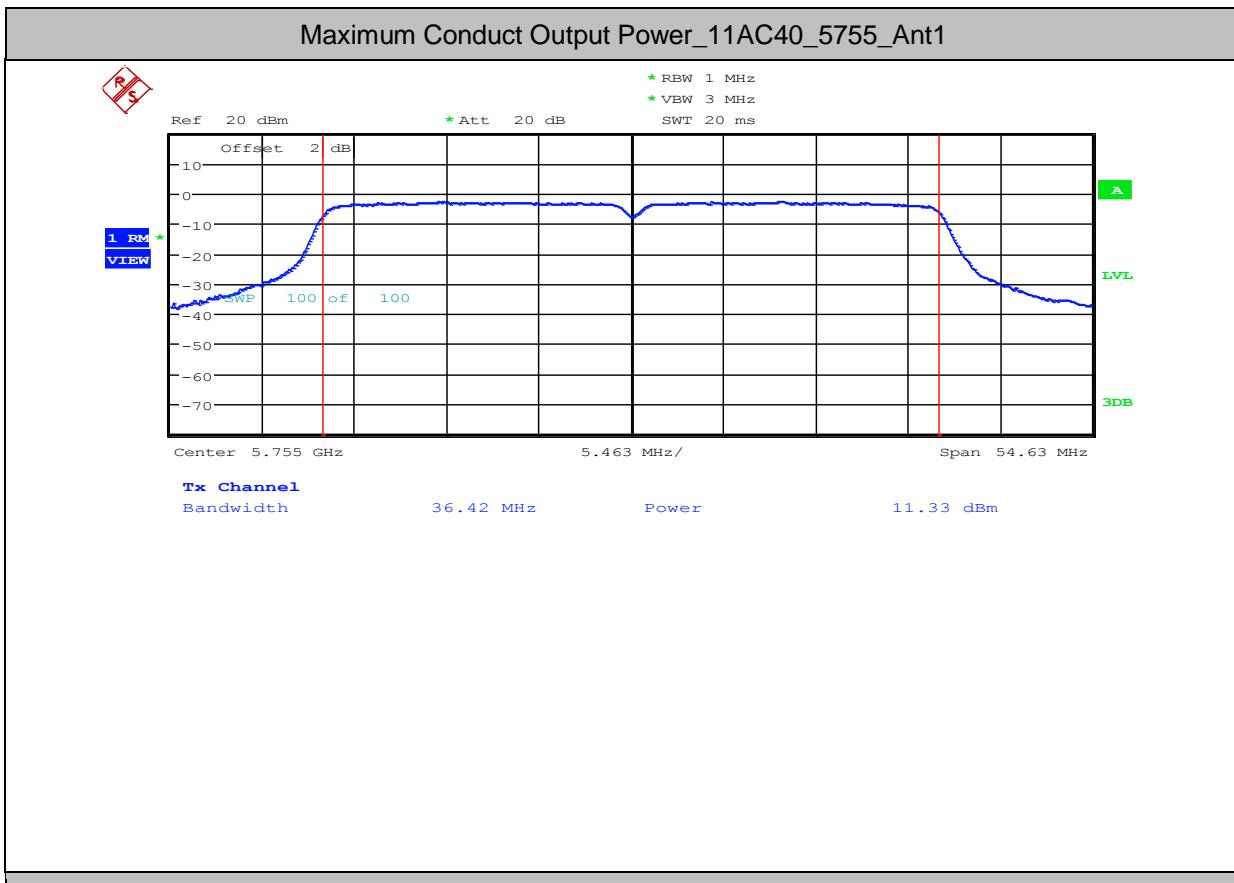


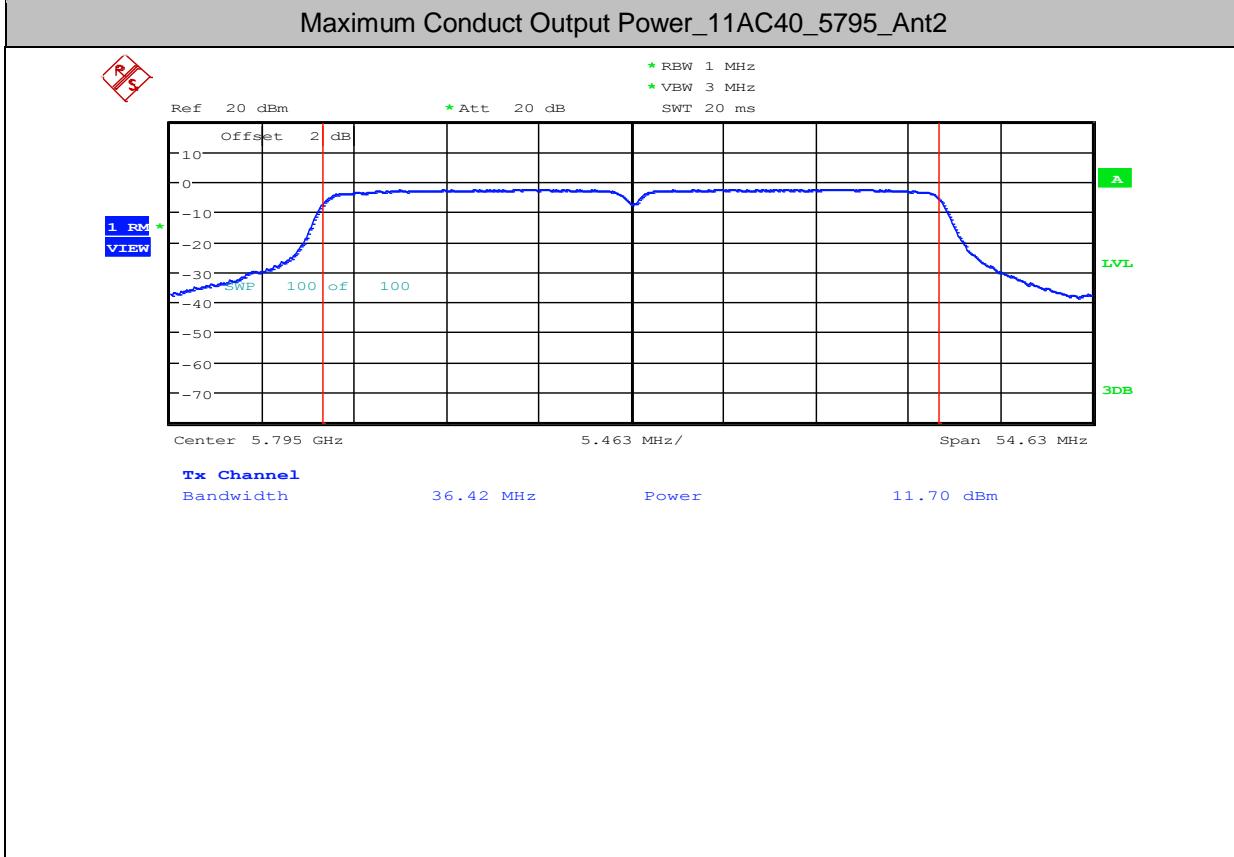
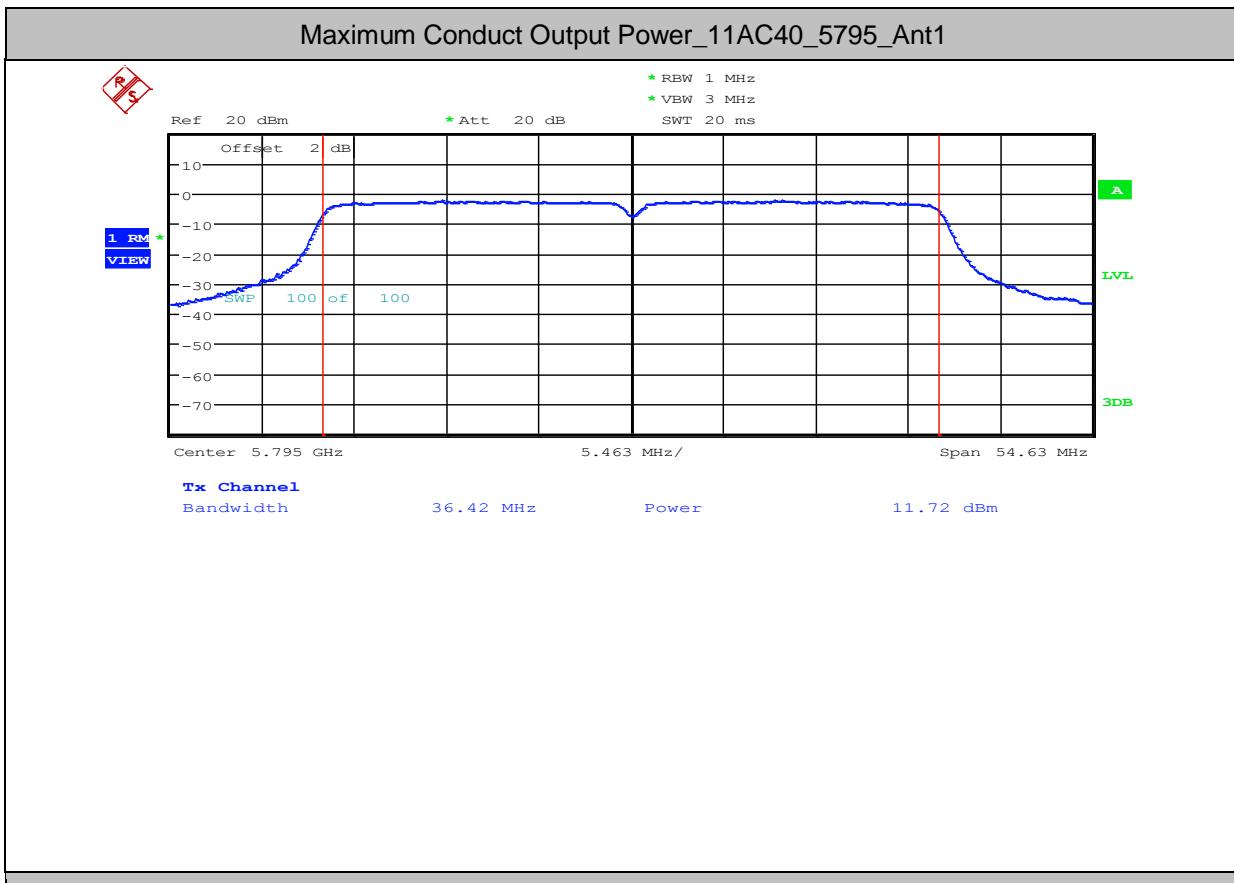














4. Maximum Power Spectral Density

802.11a mode				
Frequency (MHz)	Power Spectral Density		Limit	Result
	Ant.1	Ant.2		
5180.00	1.39	0.88	15.49 dBm/1MHz	Pass
5220.00	1.49	1.05	15.49 dBm/1MHz	Pass
5240.00	0.89	1.18	15.49 dBm/1MHz	Pass
5745.00	-1.06	-1.01	28.49 dBm/500kHz	Pass
5785.00	-0.63	-0.95	28.49 dBm/500kHz	Pass
5825.00	-0.15	-0.82	28.49 dBm/500kHz	Pass

802.11 n20 mode					
Frequency (MHz)	Power Spectral Density			Limit	Result
	Ant.1	Ant.2	Total		
5180.00	-0.70	-0.61	2.36	15.49 dBm/1MHz	Pass
5220.00	-0.44	-0.41	2.59	15.49 dBm/1MHz	Pass
5240.00	-0.27	-0.36	2.70	15.49 dBm/1MHz	Pass
5745.00	-1.02	-0.69	2.16	28.49 dBm/500kHz	Pass
5785.00	-0.42	-0.08	2.76	28.49 dBm/500kHz	Pass
5825.00	-0.01	-0.01	3.00	28.49 dBm/500kHz	Pass

802.11 n40 mode					
Frequency (MHz)	Power Spectral Density			Limit	Result
	Ant.1	Ant.2	Total		
5190.00	-2.07	-1.75	1.10	15.49 dBm/1MHz	Pass
5230.00	-1.95	-1.46	1.31	15.49 dBm/1MHz	Pass
5755.00	-3.52	-3.86	-0.68	28.49 dBm/500kHz	Pass
5795.00	-3.38	-2.99	-0.17	28.49 dBm/500kHz	Pass

802.11ac 20 mode					
Frequency (MHz)	Power Spectral Density			Limit	Result
	Ant.1	Ant.2	Total		
5180.00	-0.40	-0.40	2.61	15.49 dBm/1MHz	Pass
5220.00	-0.62	0.06	2.74	15.49 dBm/1MHz	Pass
5240.00	-0.39	-0.15	2.74	15.49 dBm/1MHz	Pass
5745.00	-0.89	-0.96	2.09	28.49 dBm/500kHz	Pass
5785.00	-0.30	-0.37	2.68	28.49 dBm/500kHz	Pass
5825.00	0.00	-0.29	2.87	28.49 dBm/500kHz	Pass

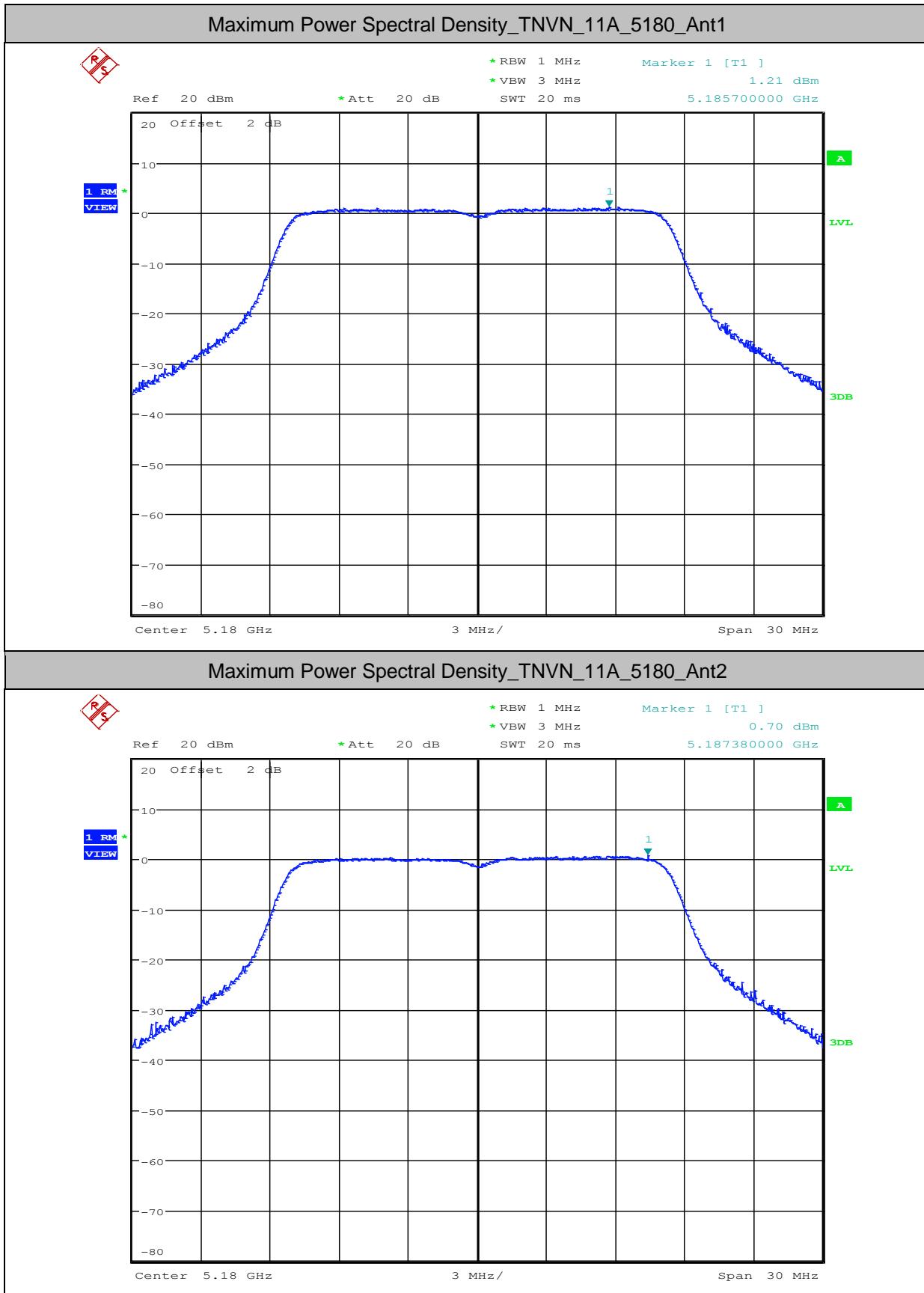


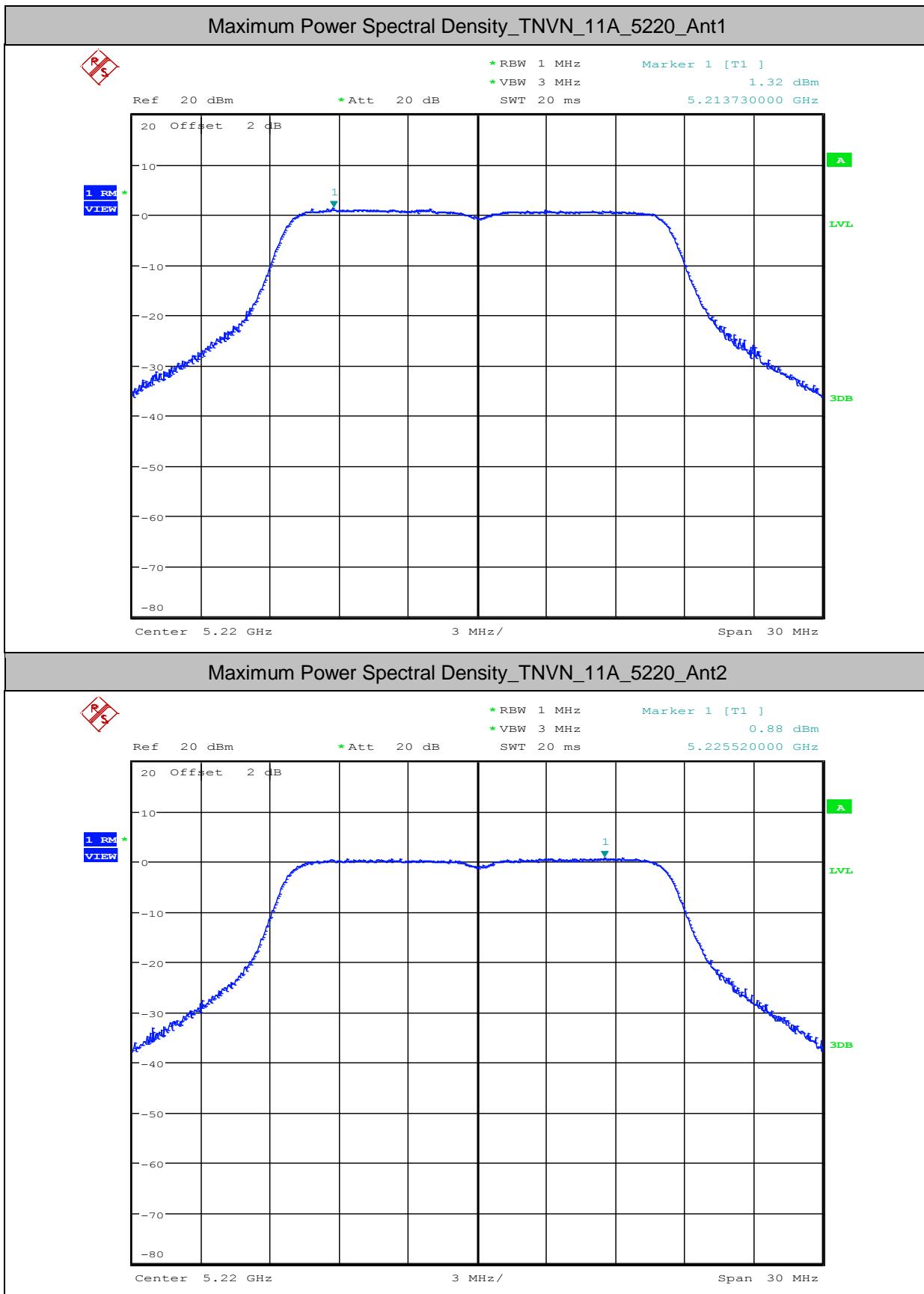
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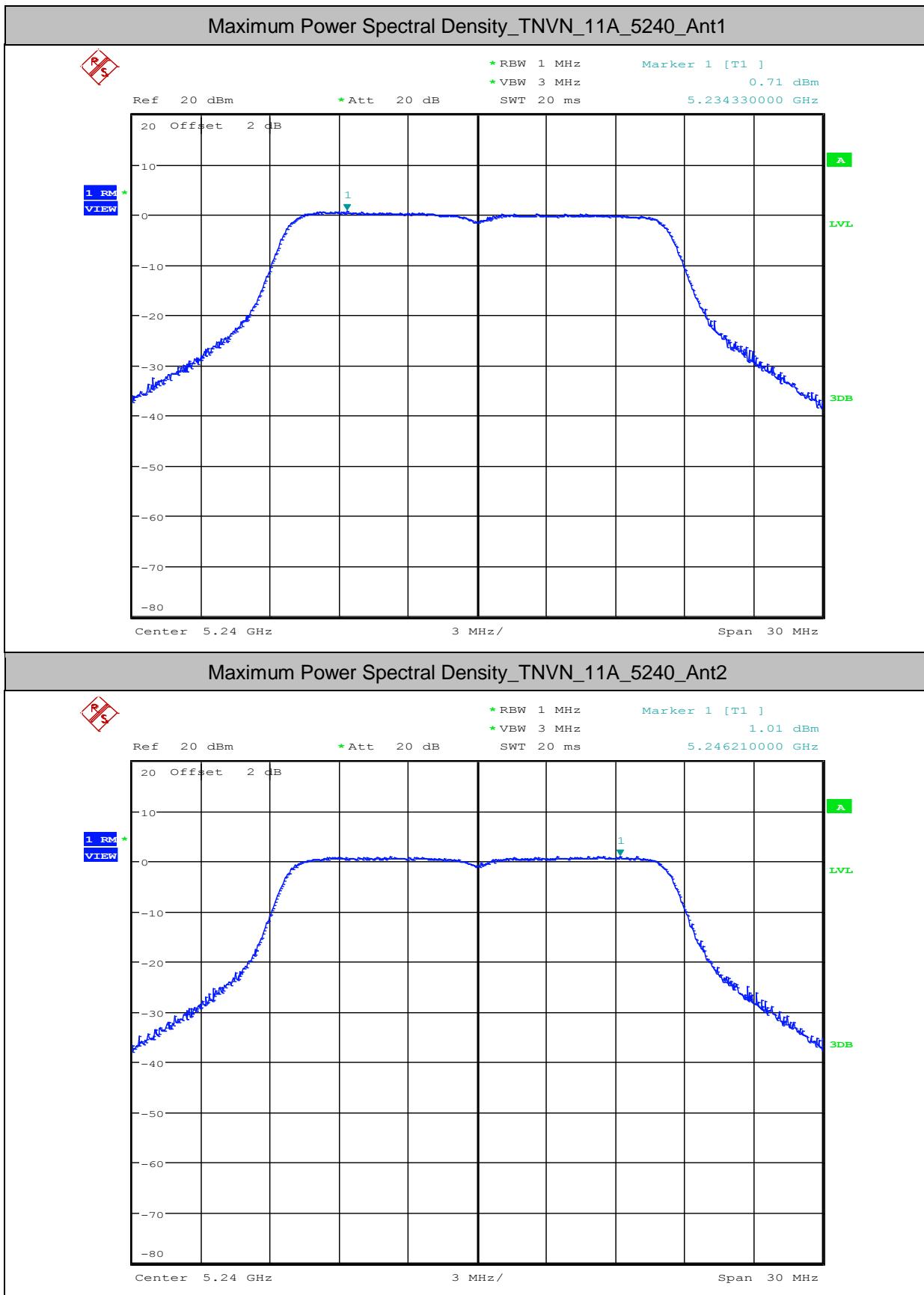
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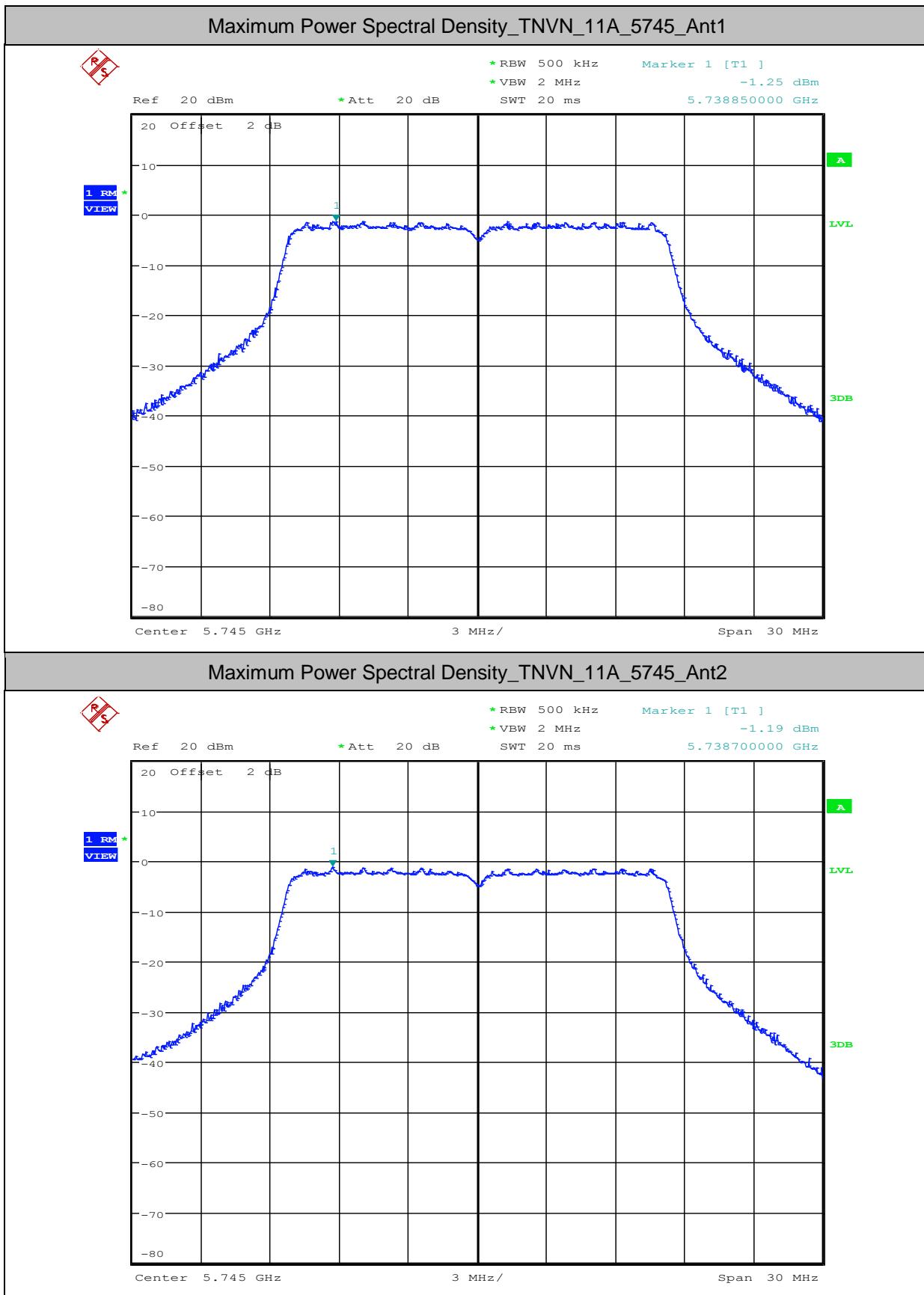
802.11ac 40 mode					
Frequency (MHz)	Power Spectral Density			Limit	Result
	Ant.1	Ant.2	Total		
5190.00	-2.28	-1.91	0.92	15.49 dBm/1MHz	Pass
5230.00	-2.24	-1.76	1.02	15.49 dBm/1MHz	Pass
5755.00	-3.68	-3.92	-0.79	28.49 dBm/500kHz	Pass
5795.00	-3.43	-3.23	-0.32	28.49 dBm/500kHz	Pass

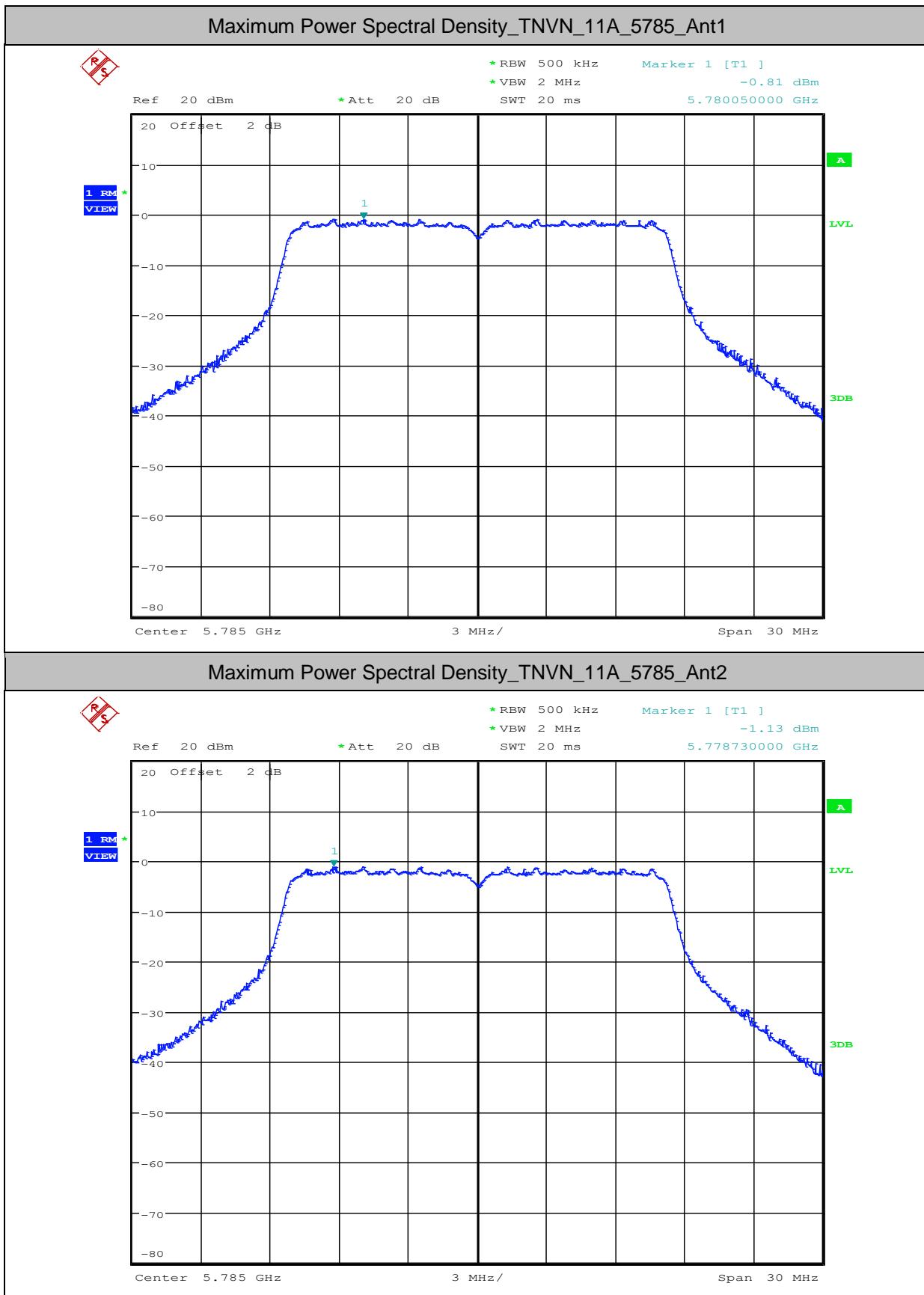
802.11ac 80 mode					
Frequency (MHz)	Power Spectral Density			Limit	Result
	Ant.1	Ant.2	Total		
5210.00	-3.72	-3.96	-0.83	15.49 dBm/1MHz	Pass
5775.00	-6.41	-6.18	-3.28	28.49 dBm/500kHz	Pass

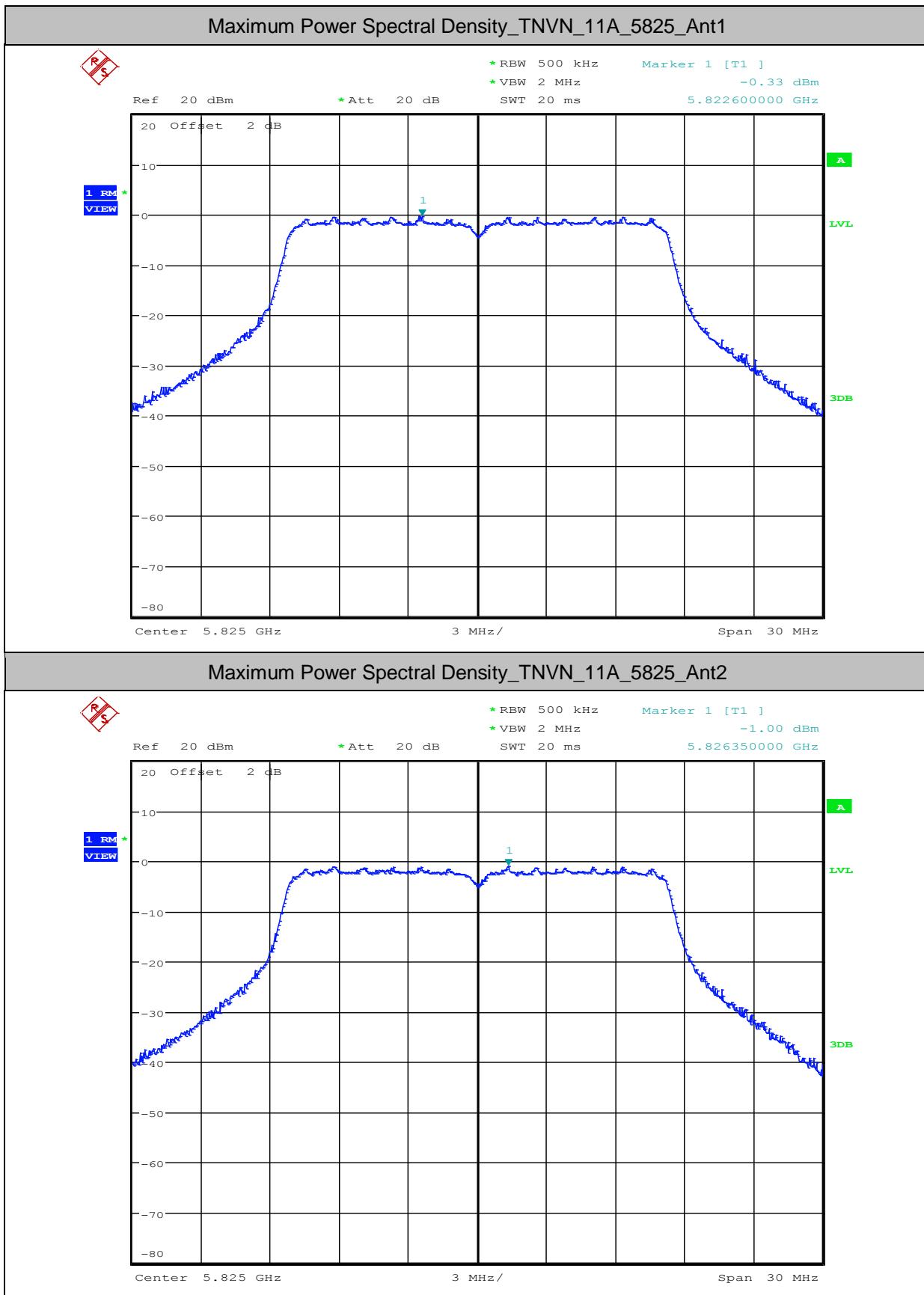


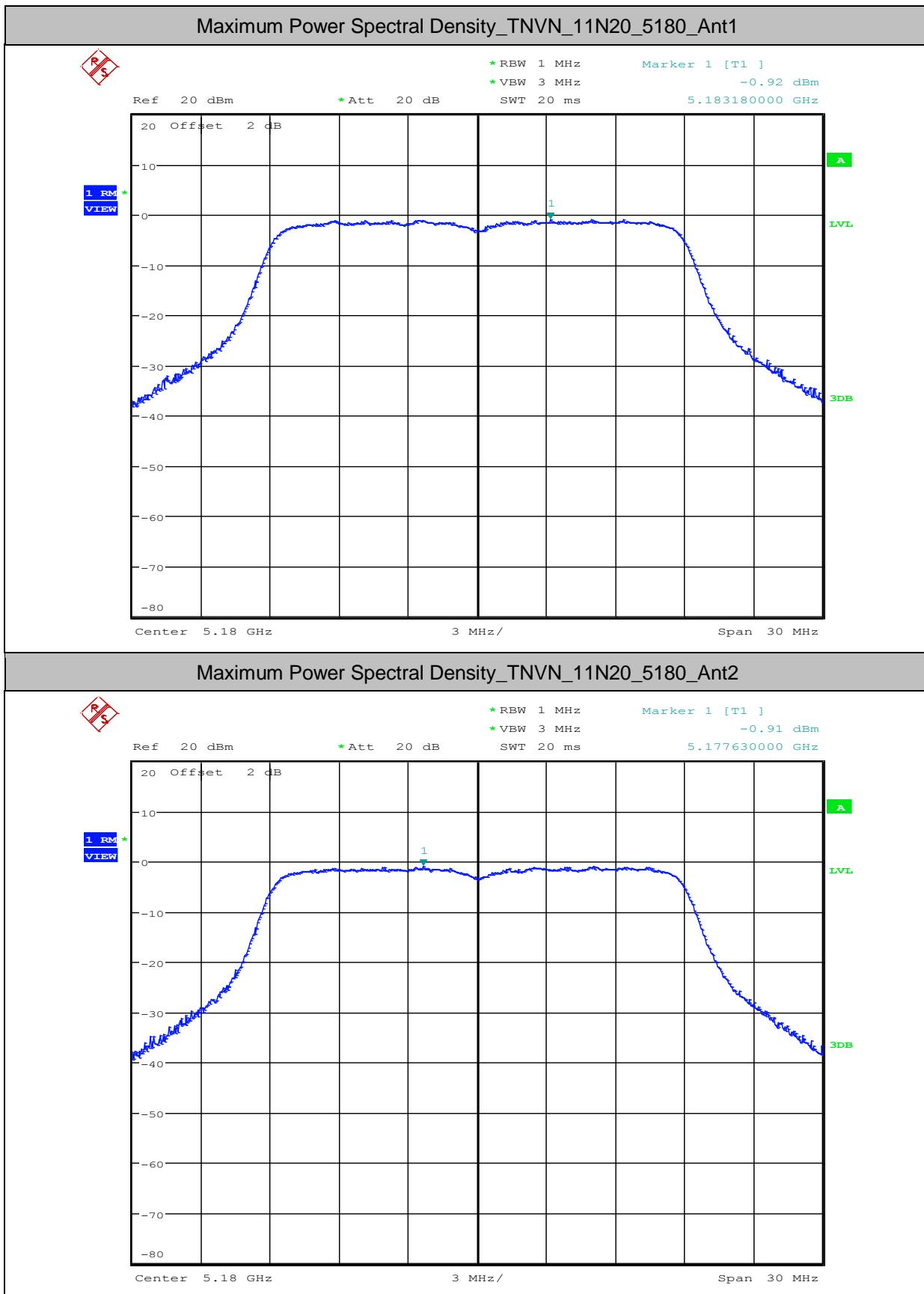


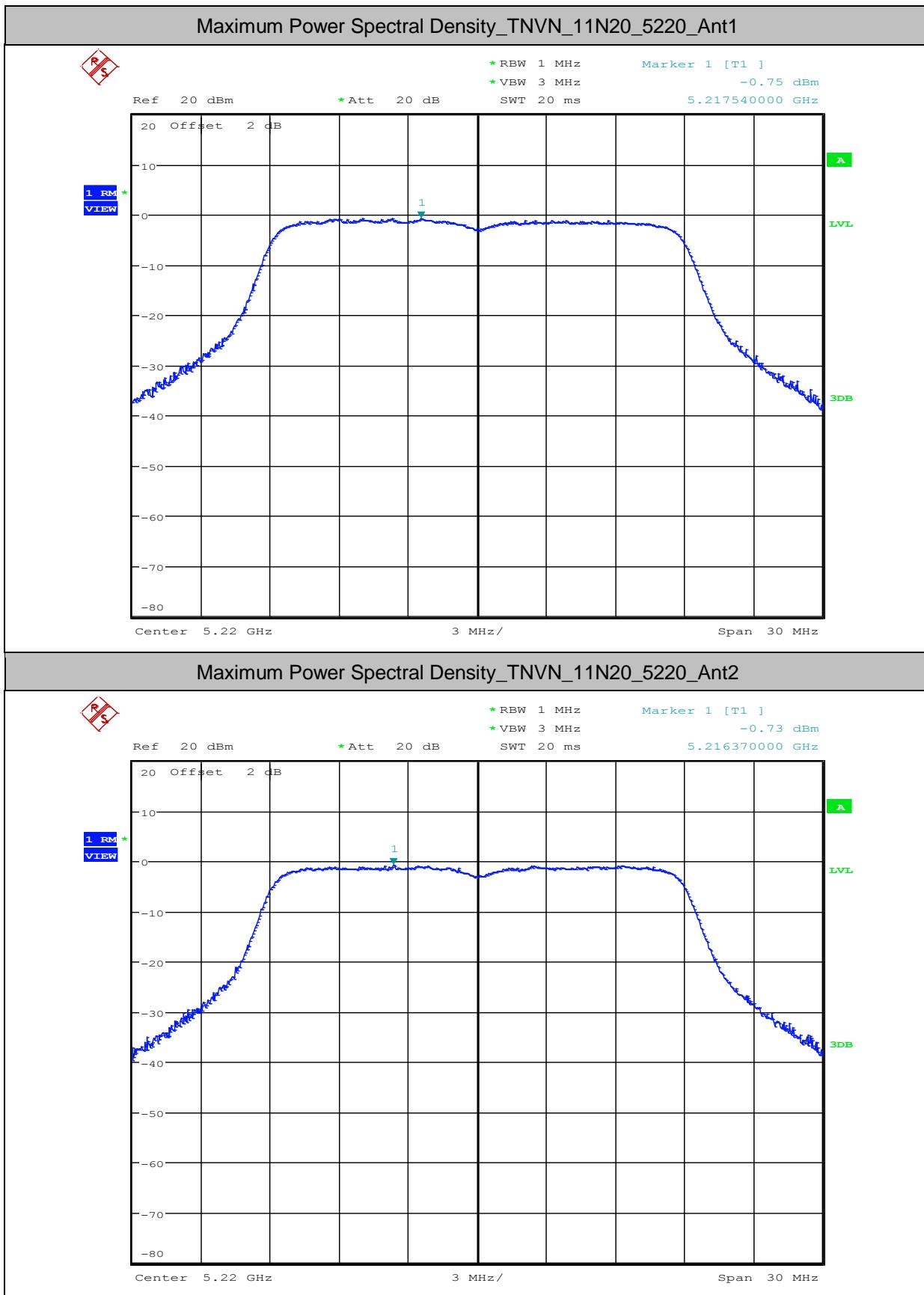


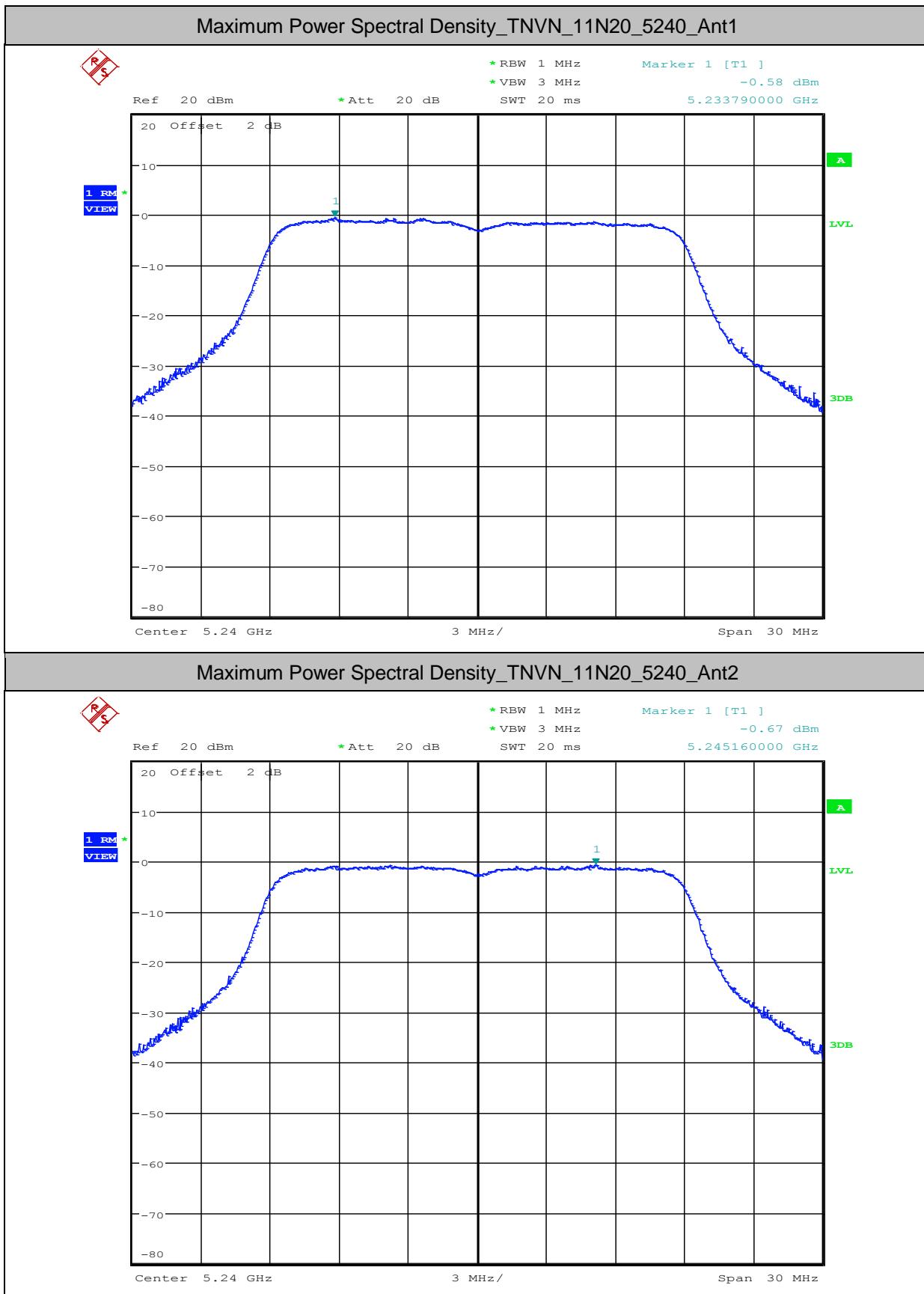


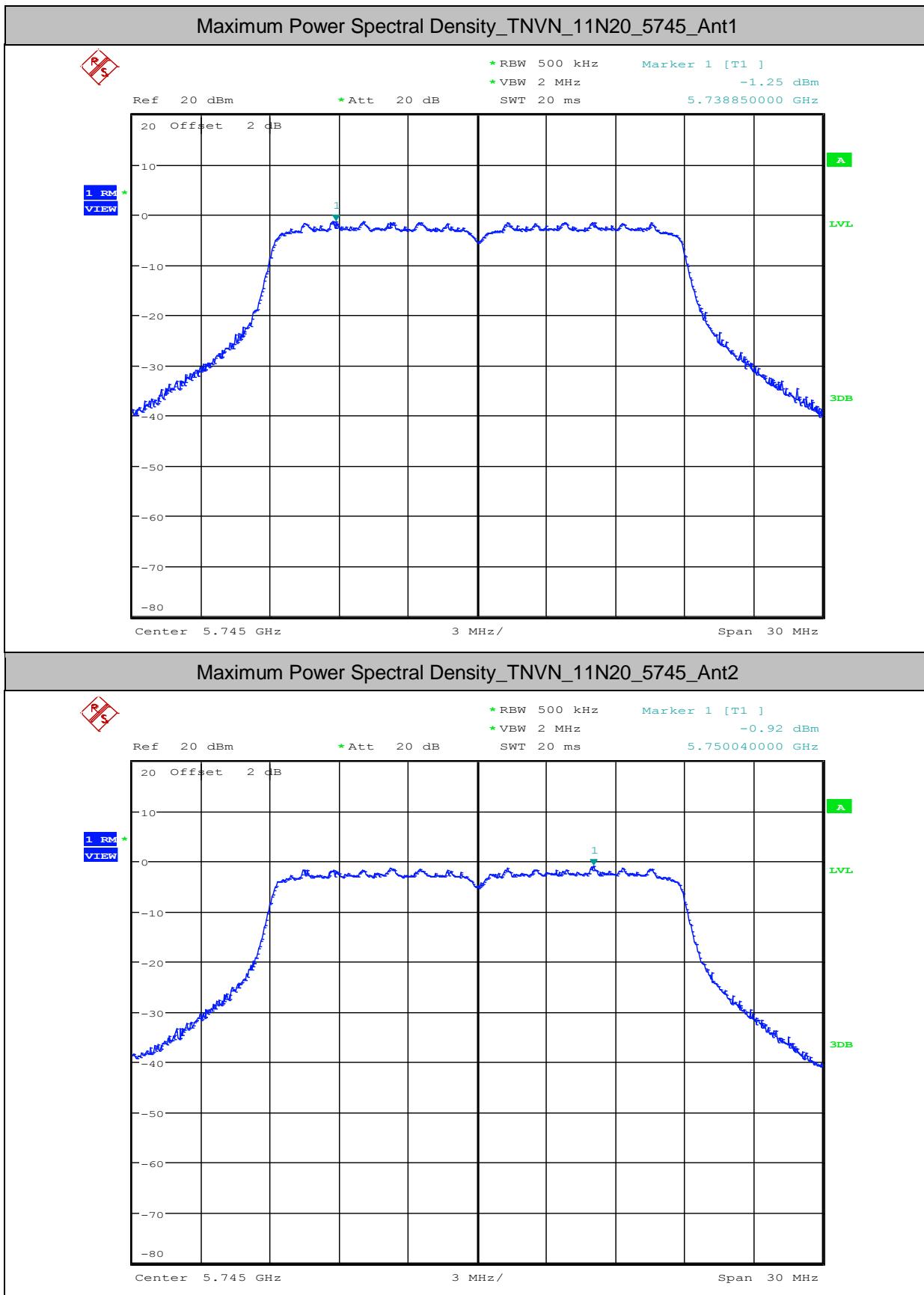


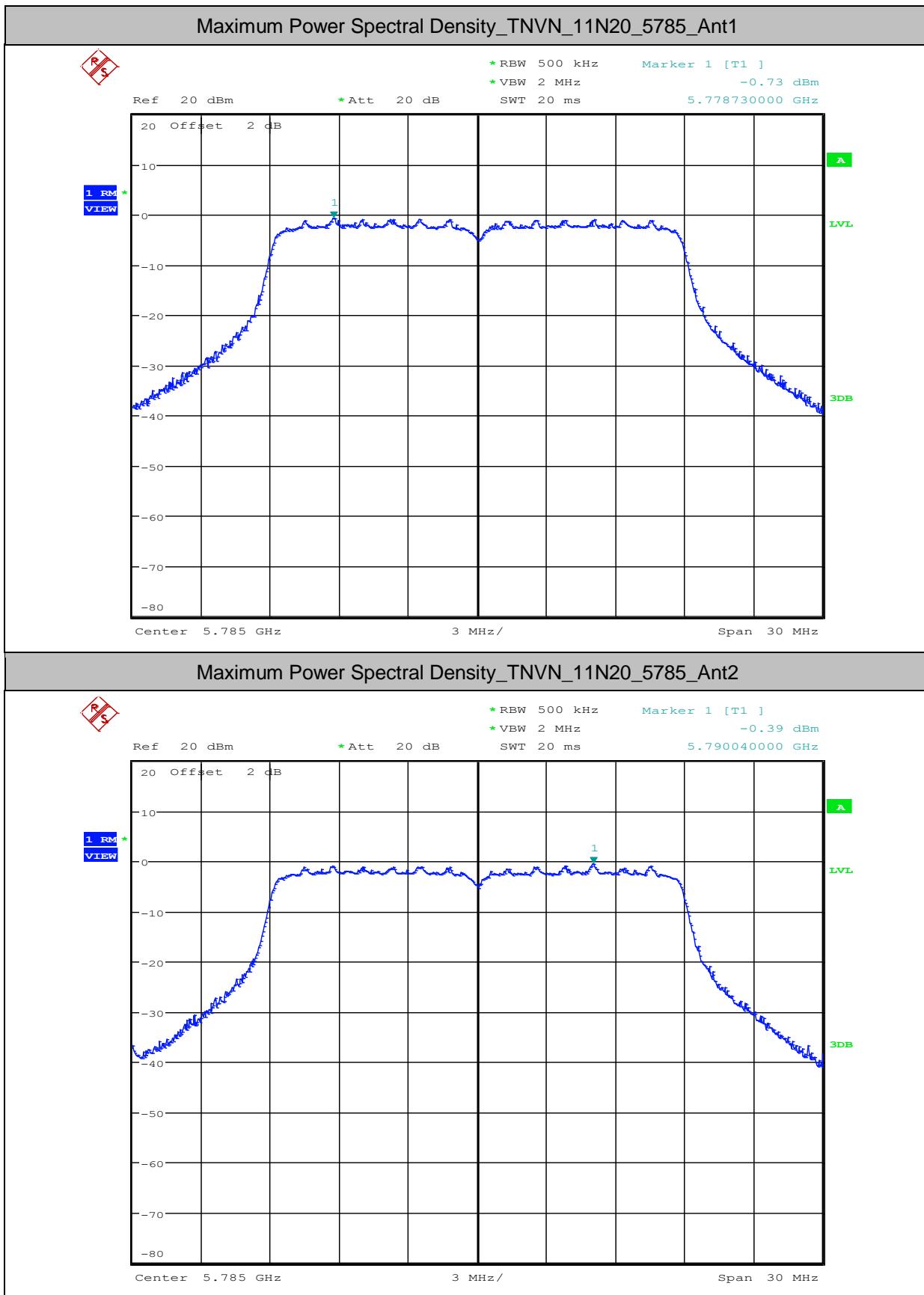


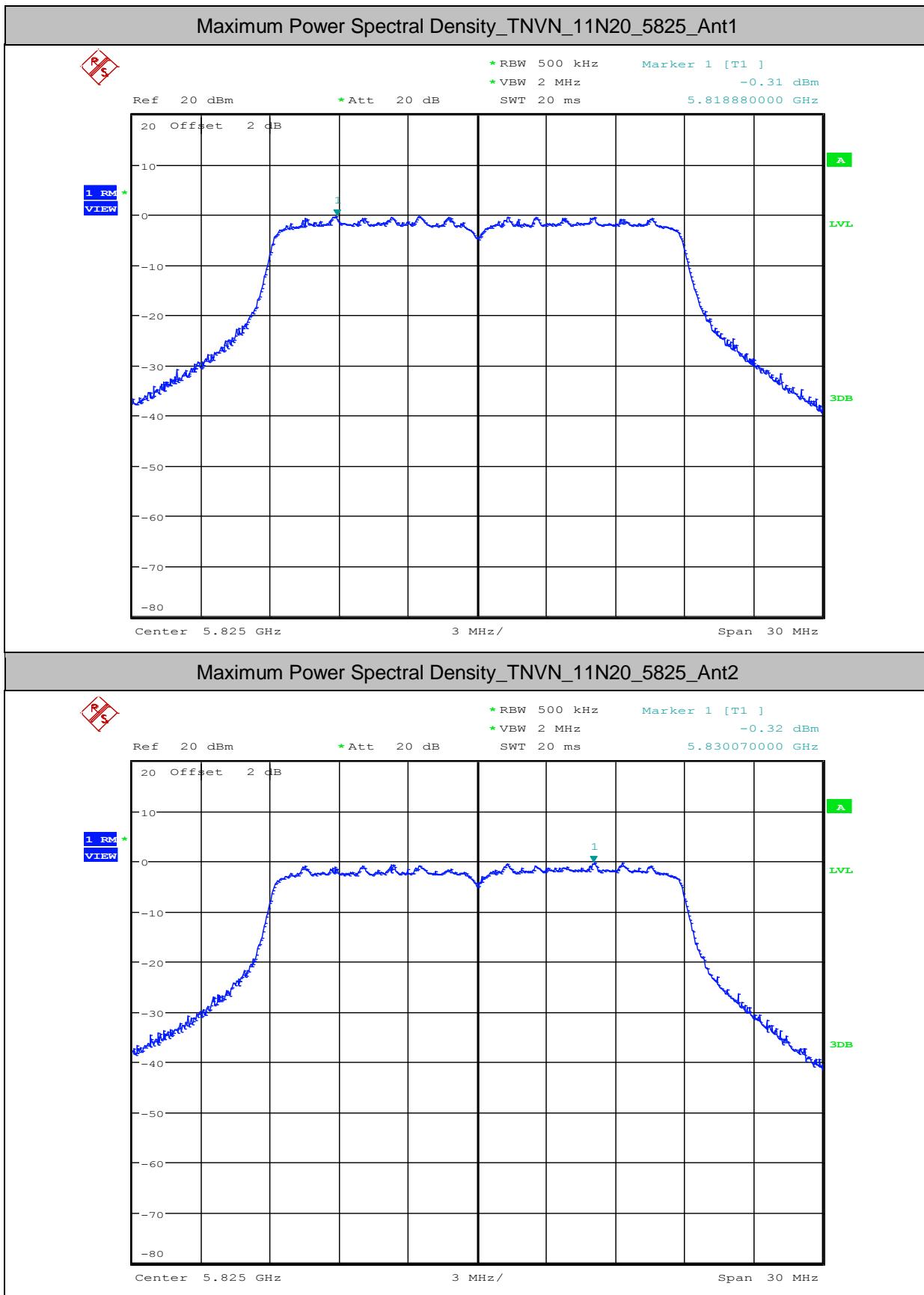


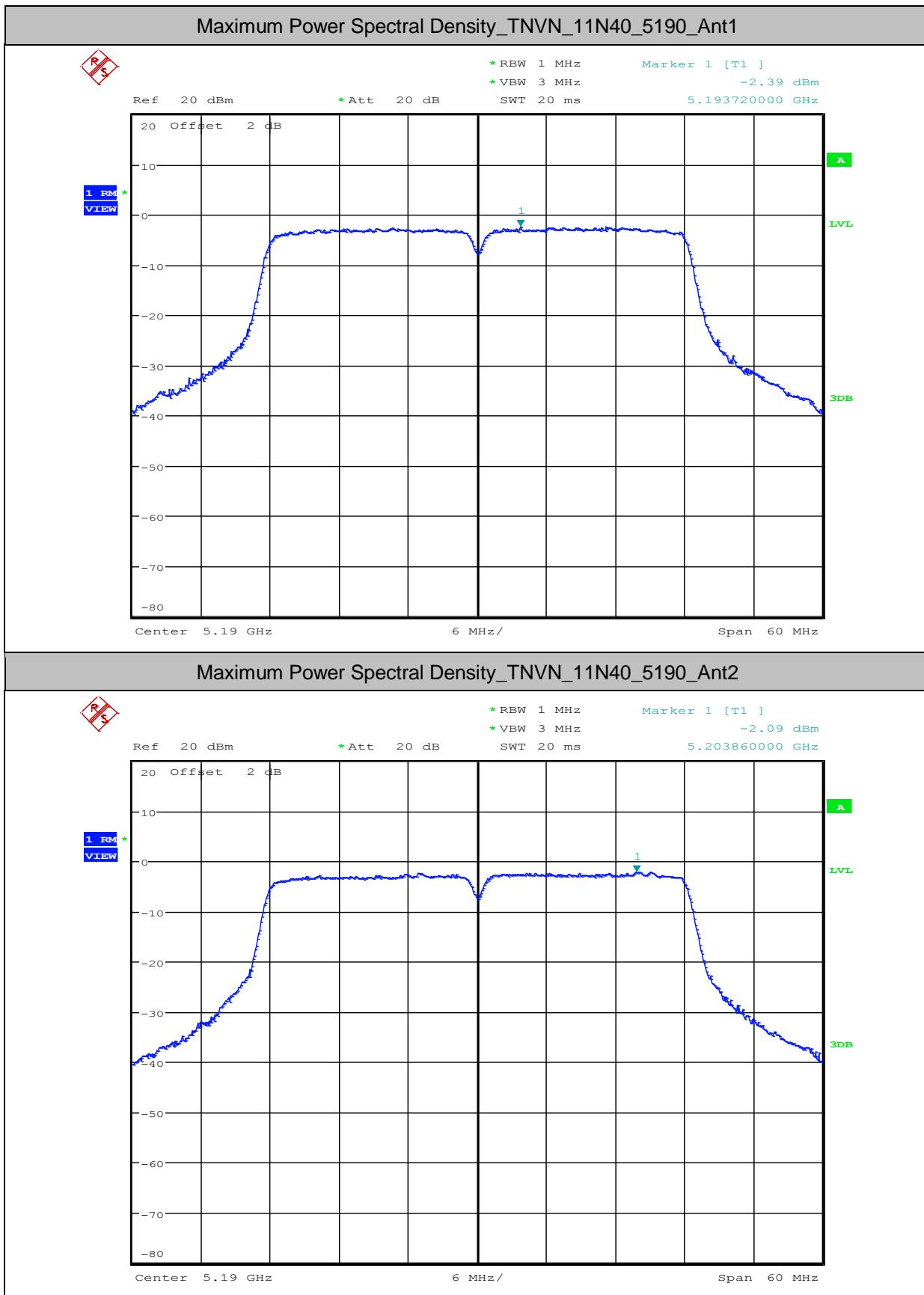


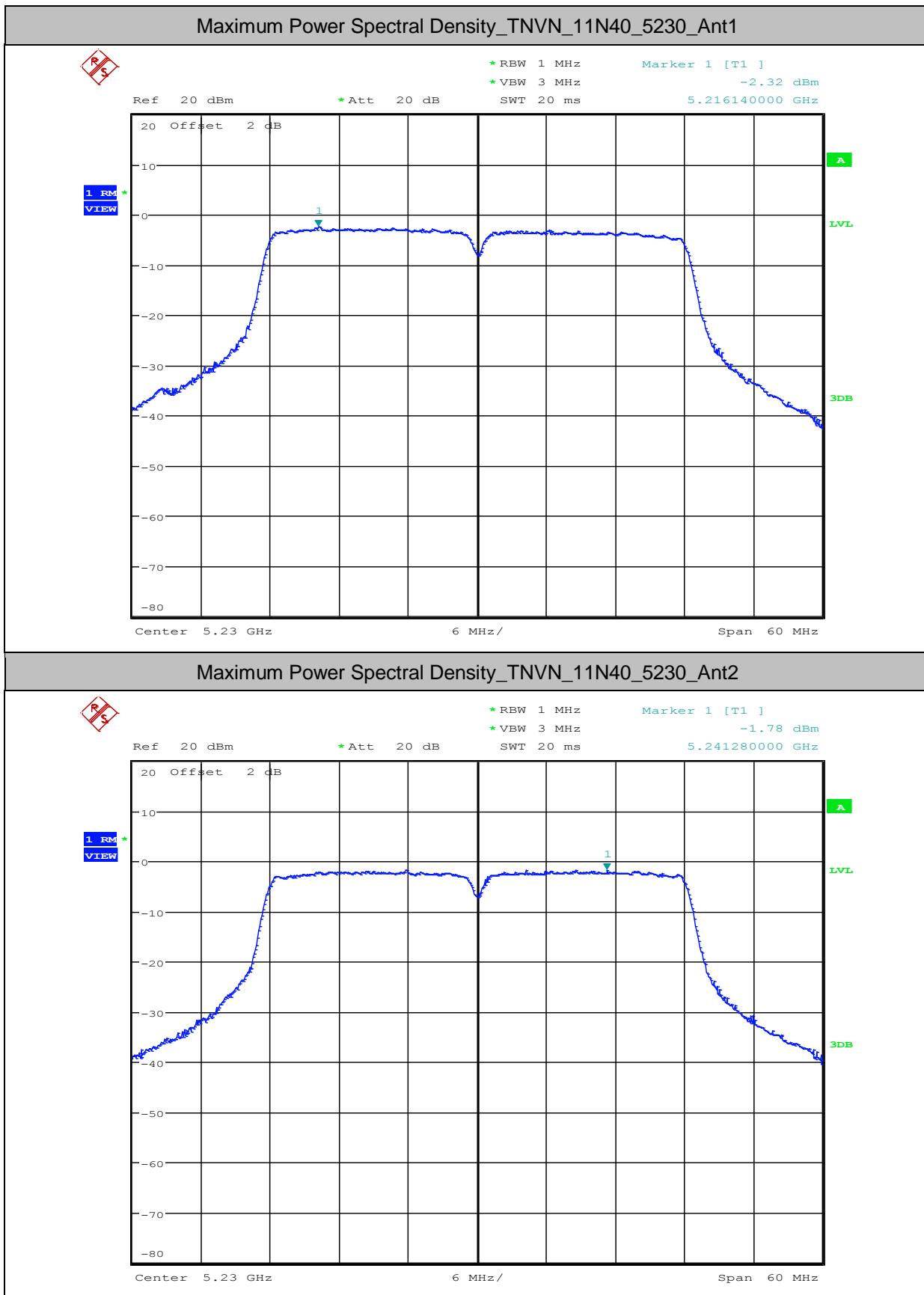


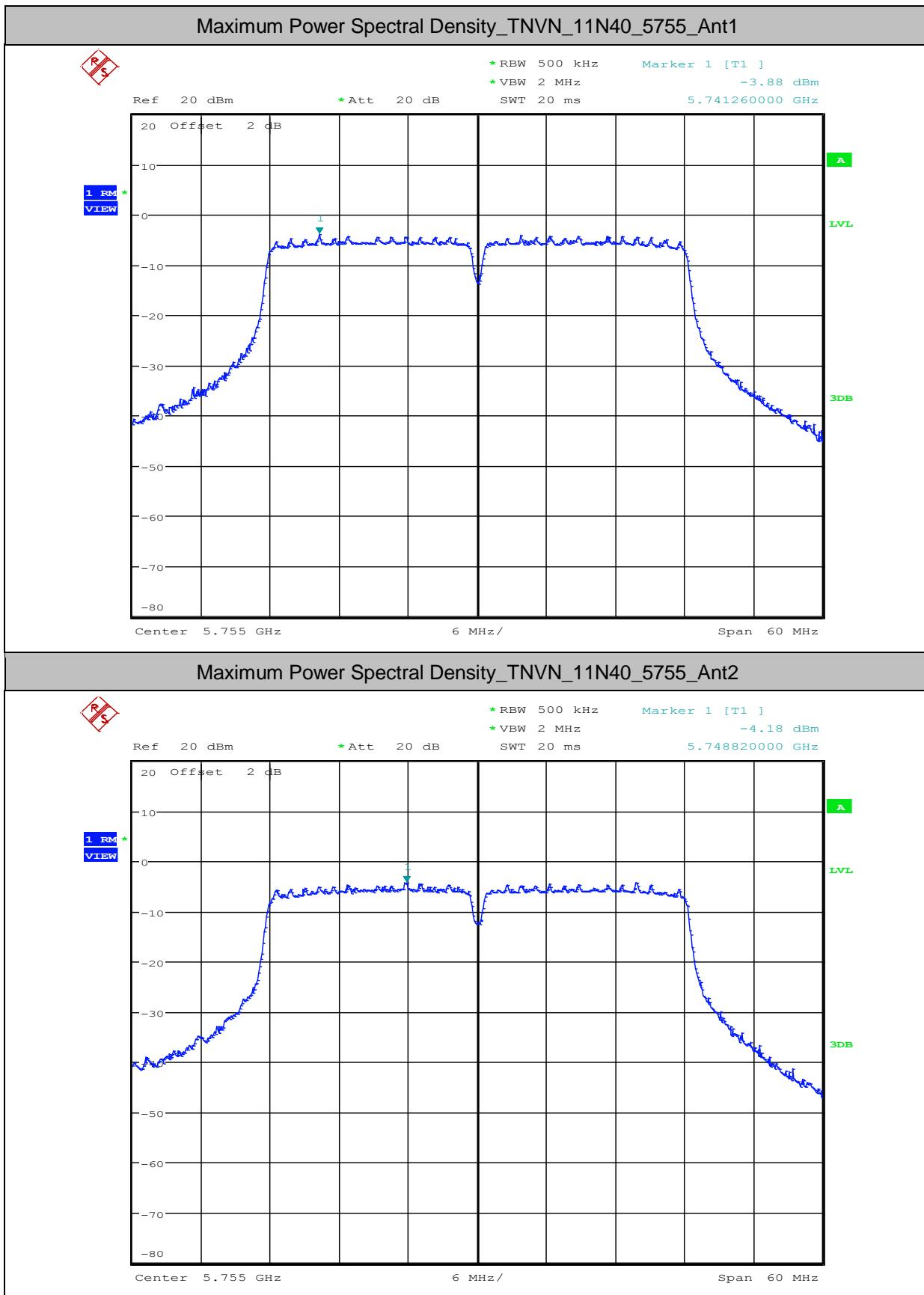


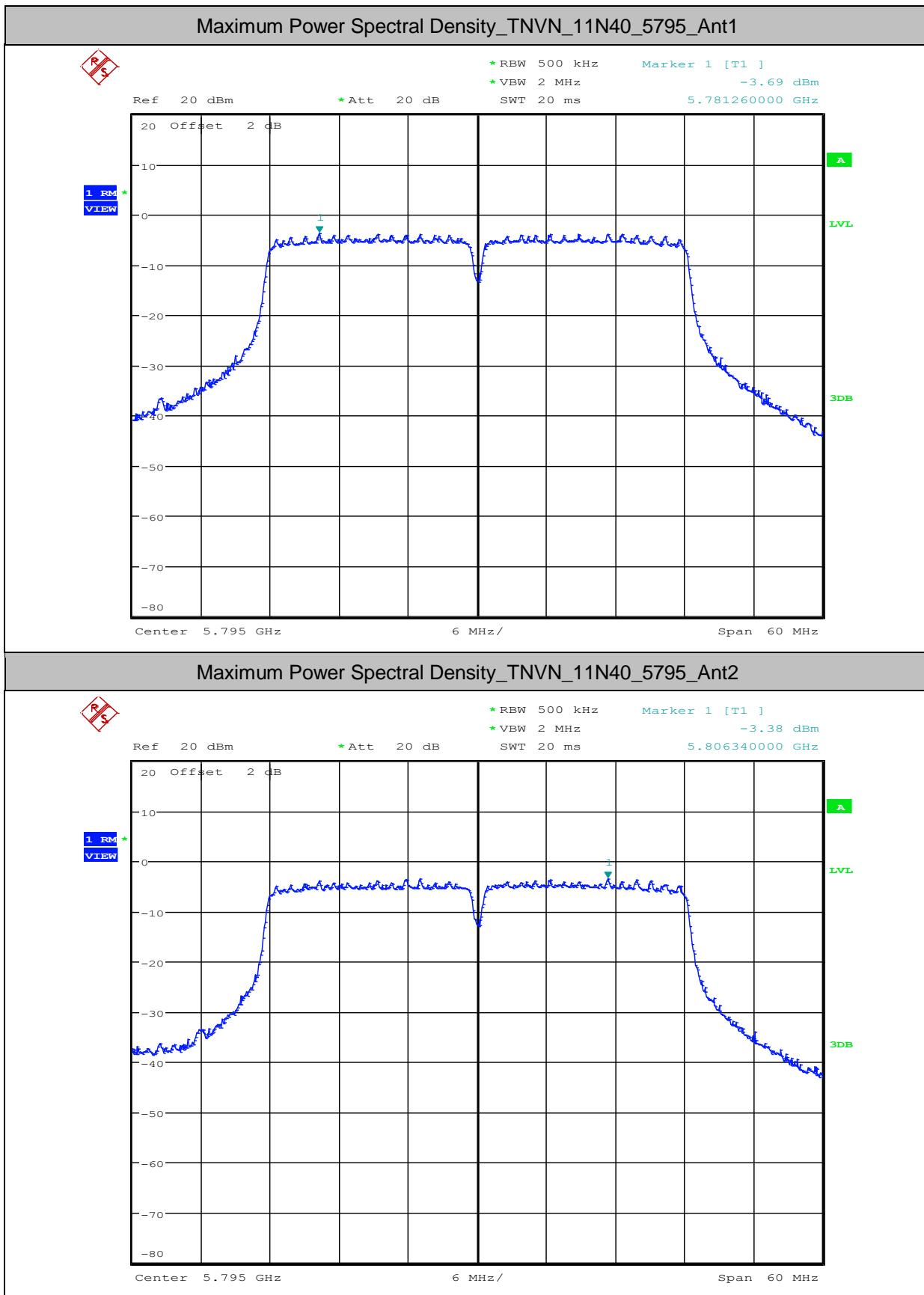


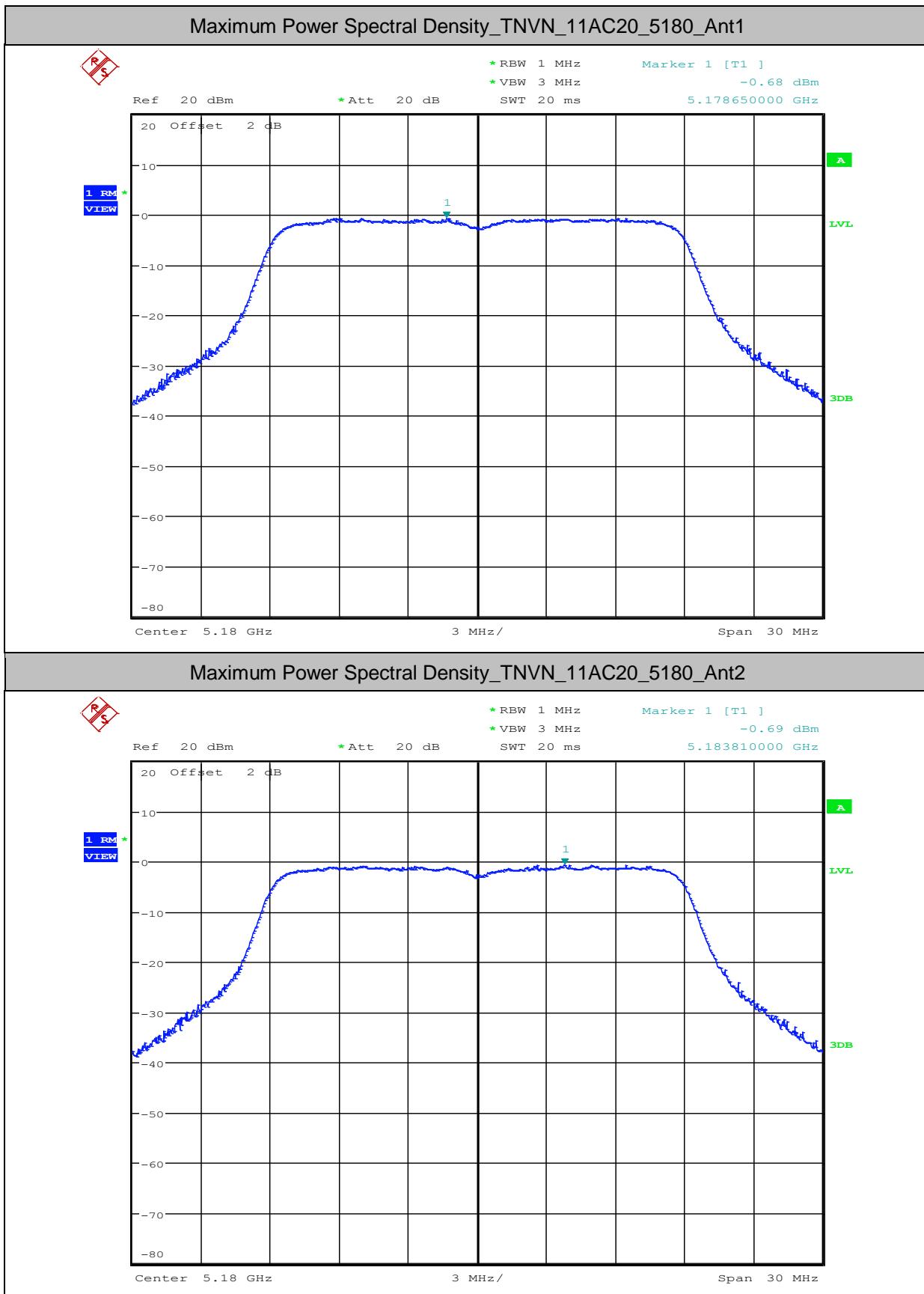


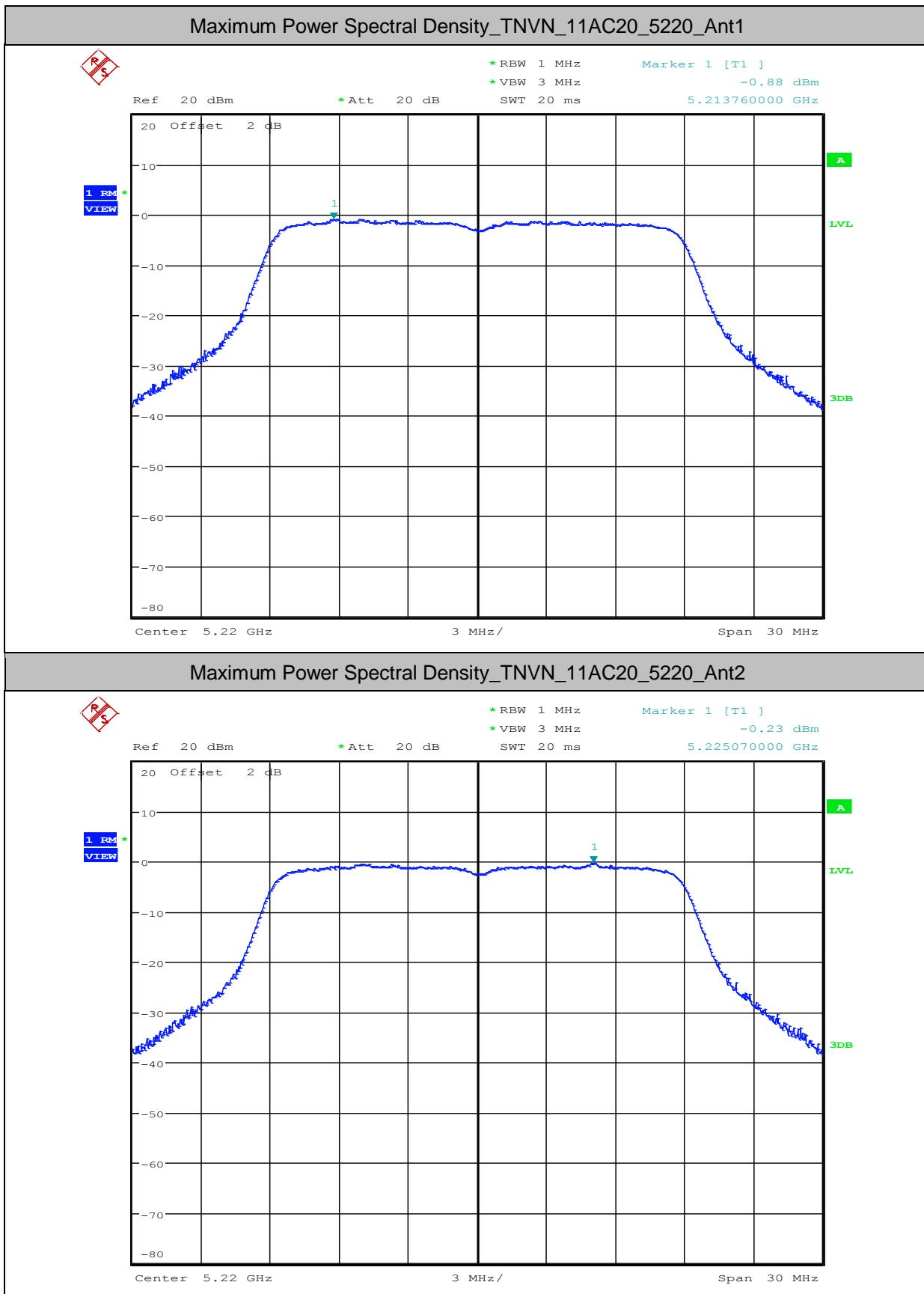


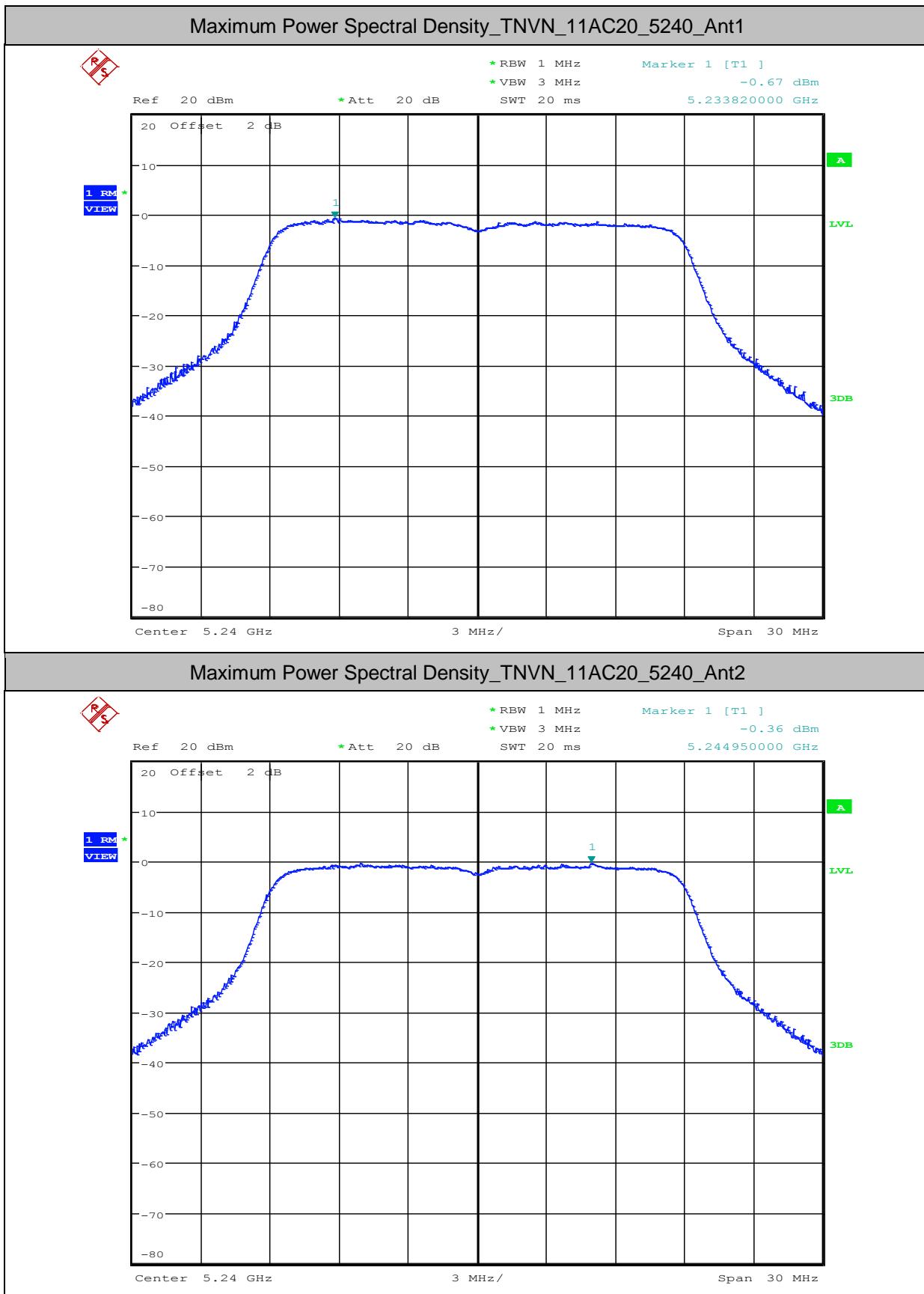


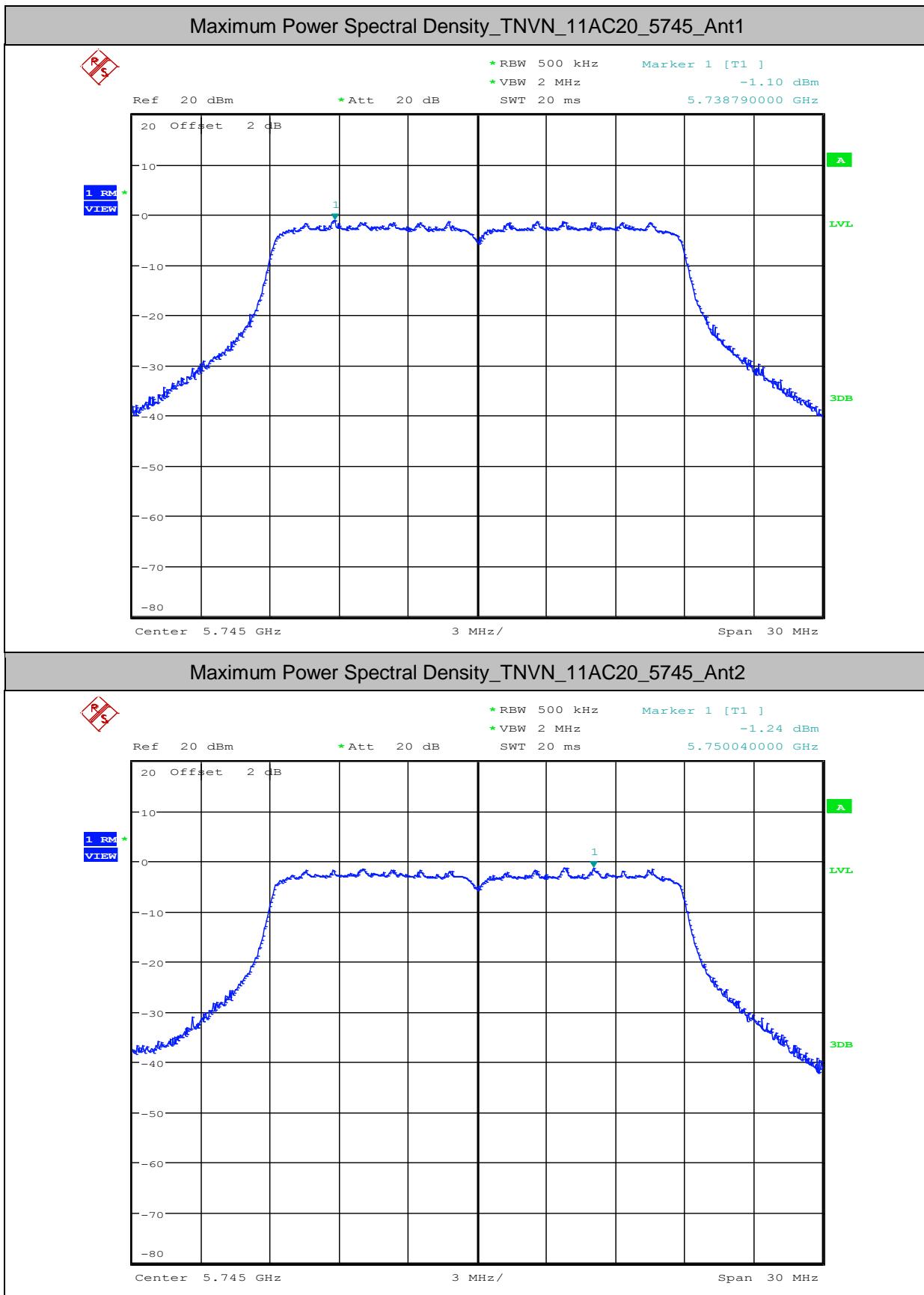


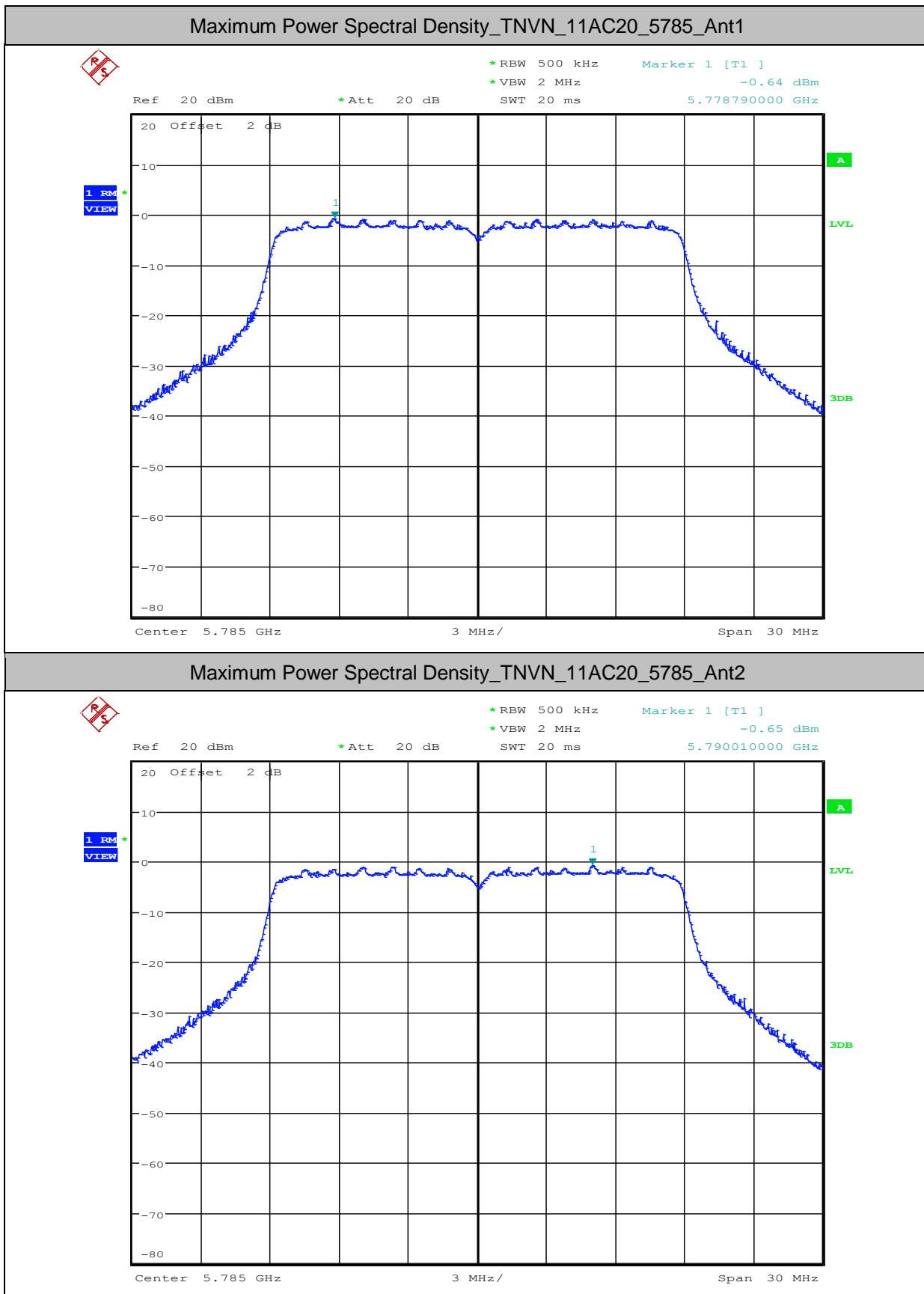


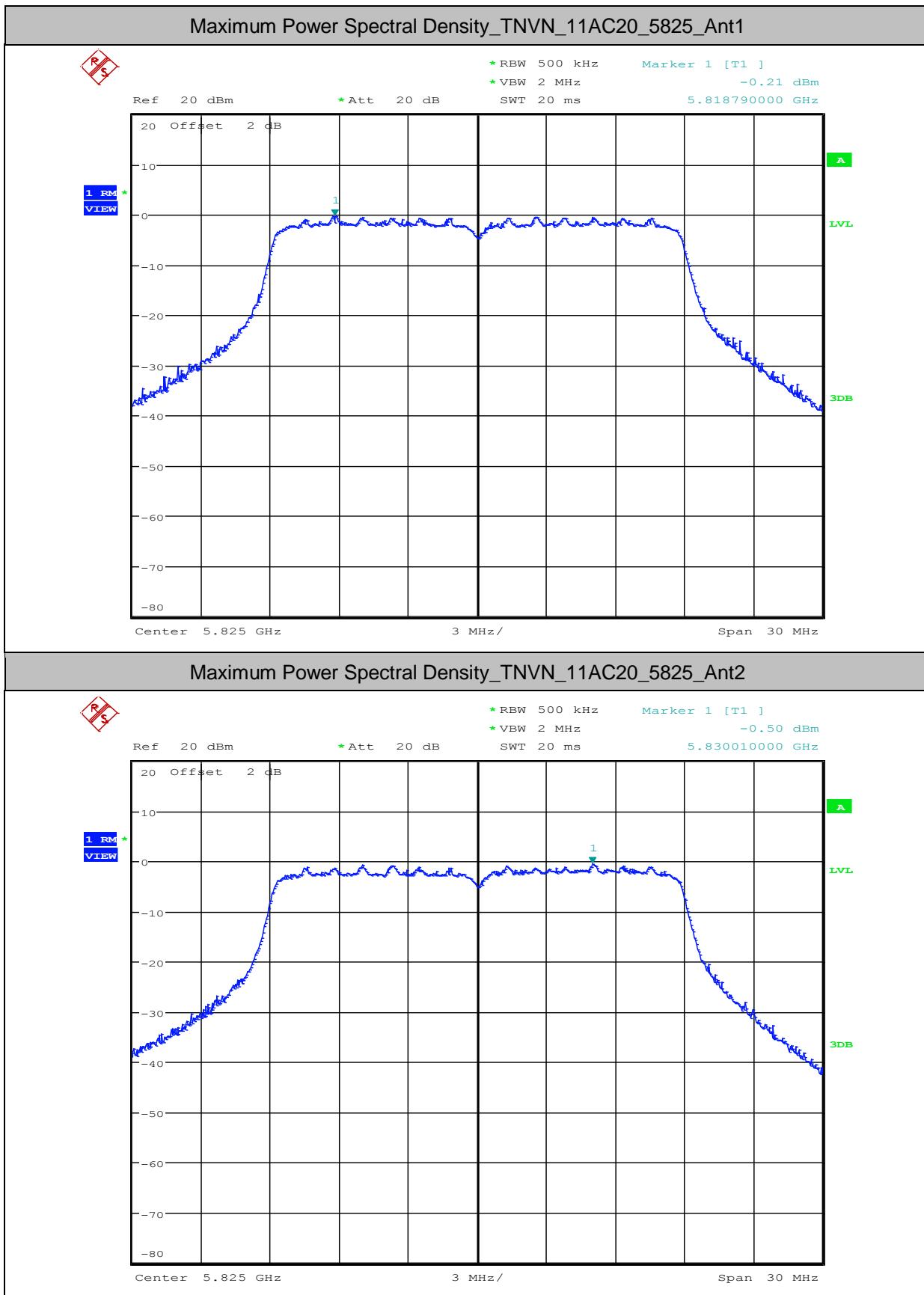


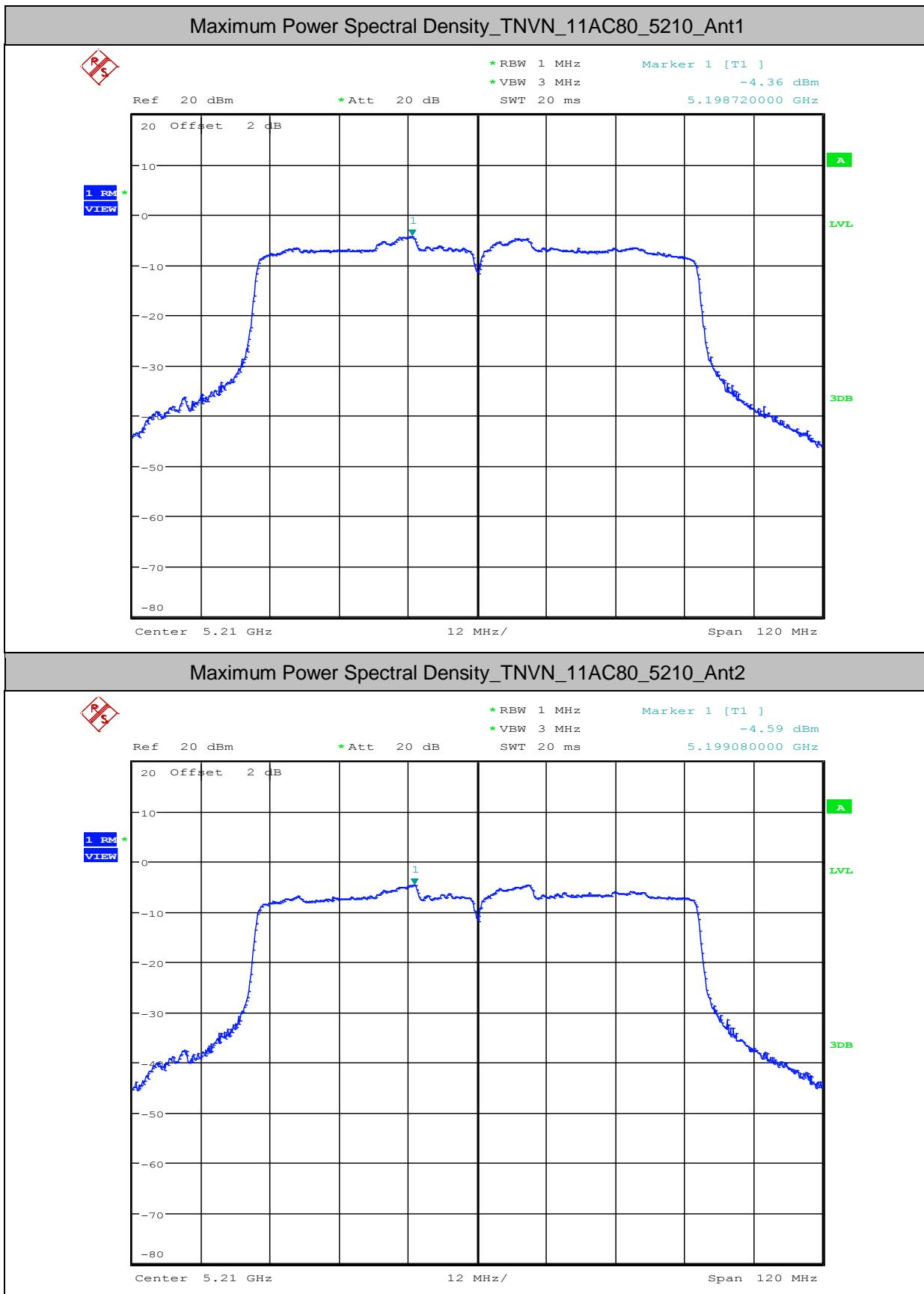


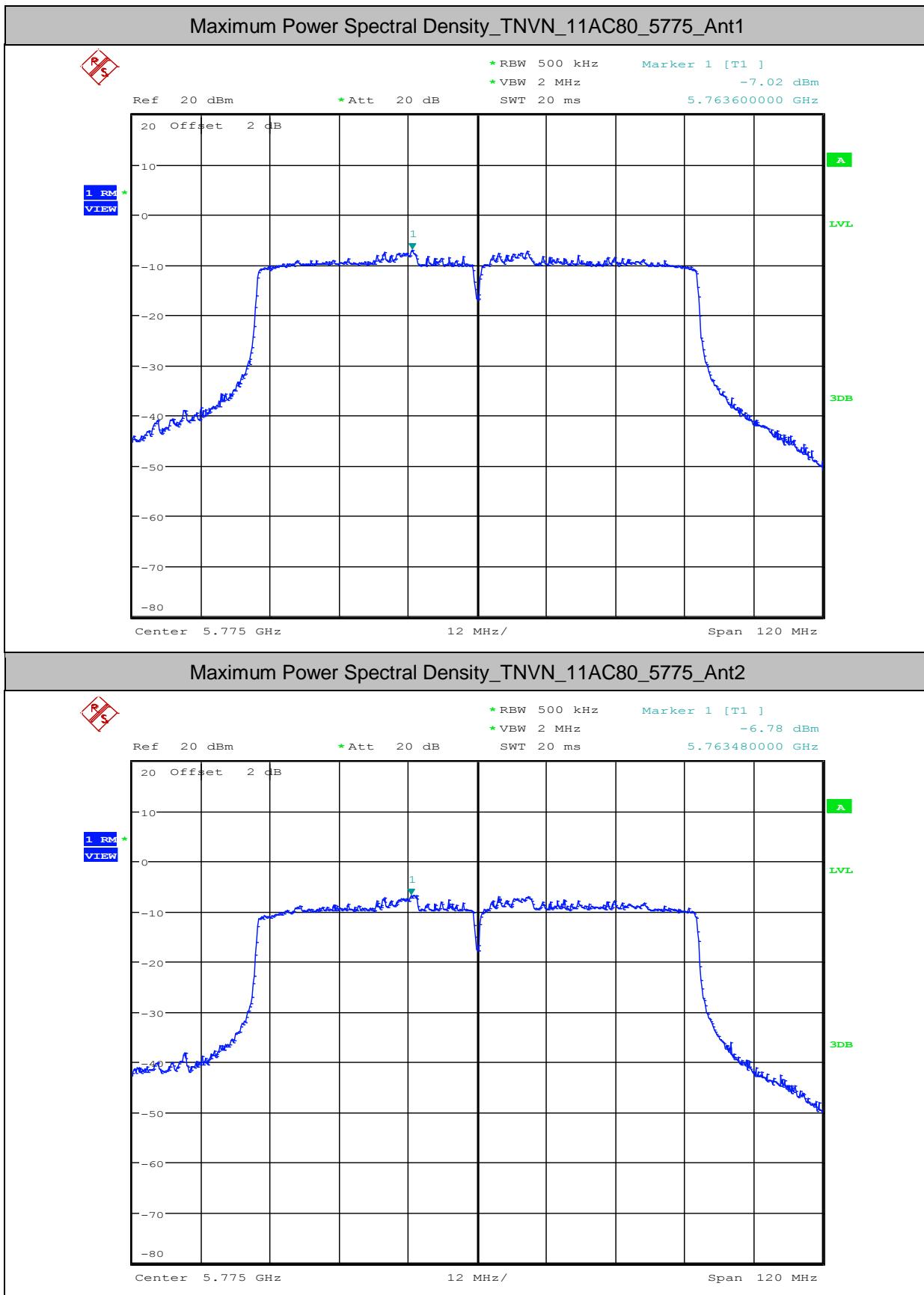


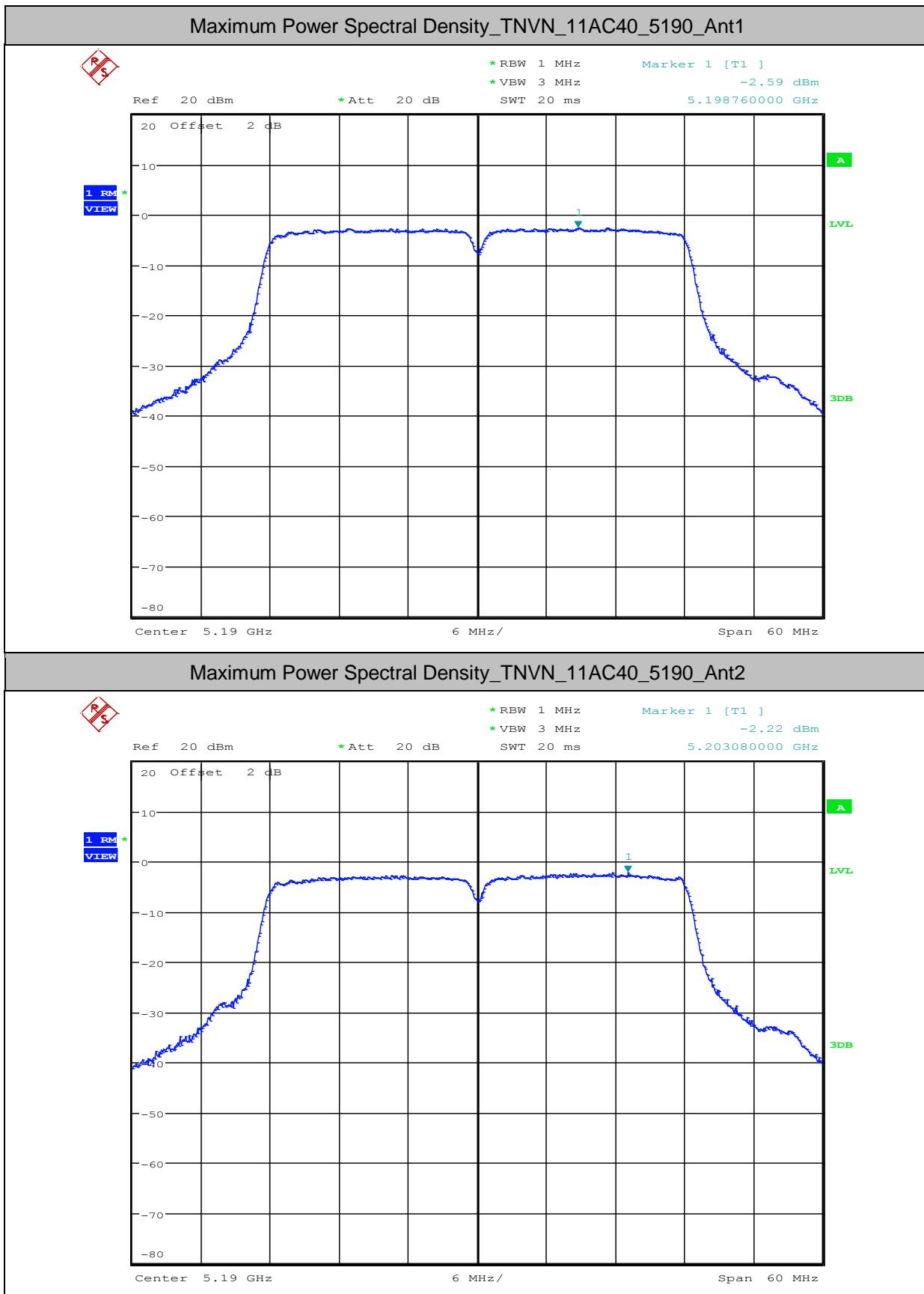


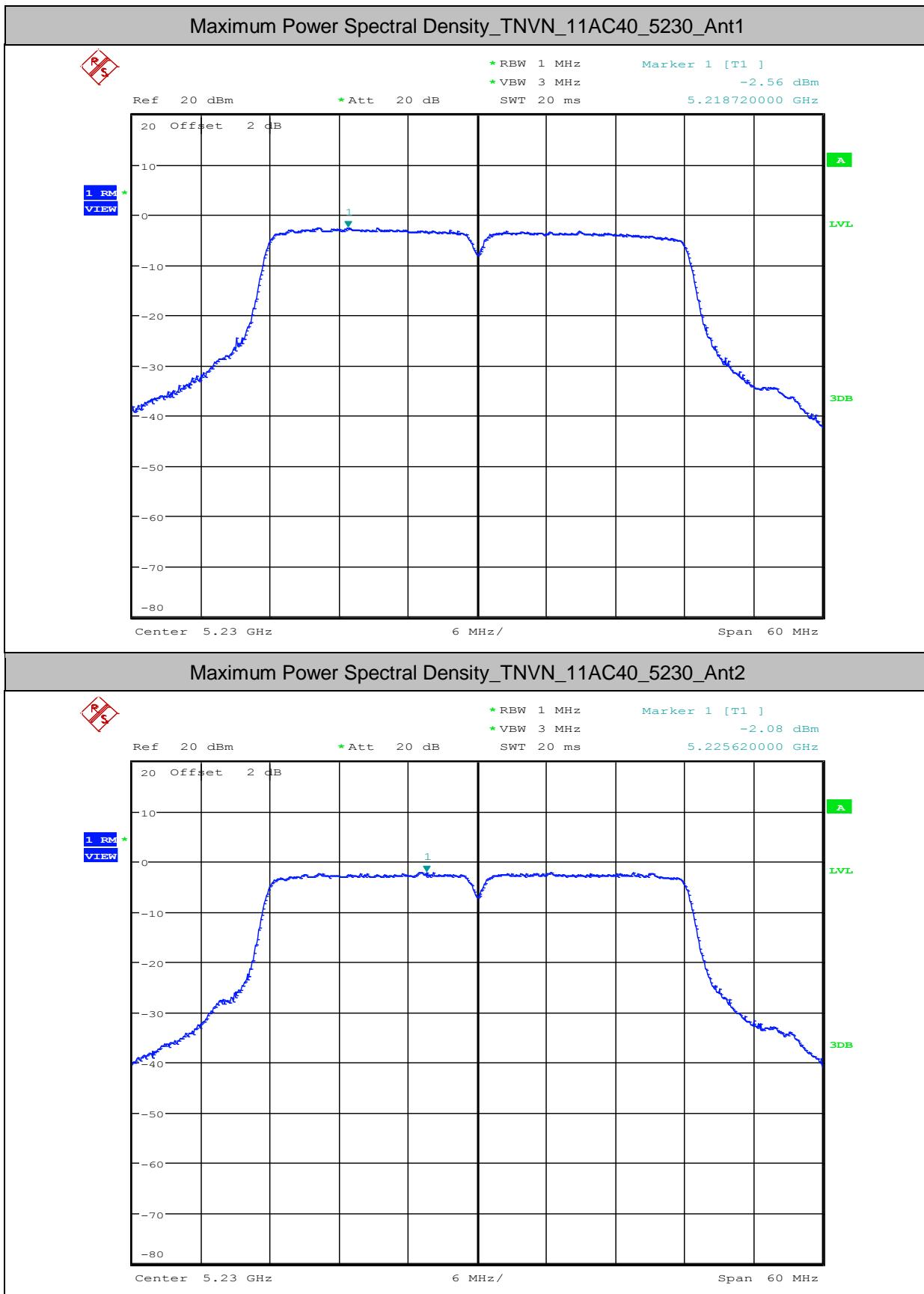


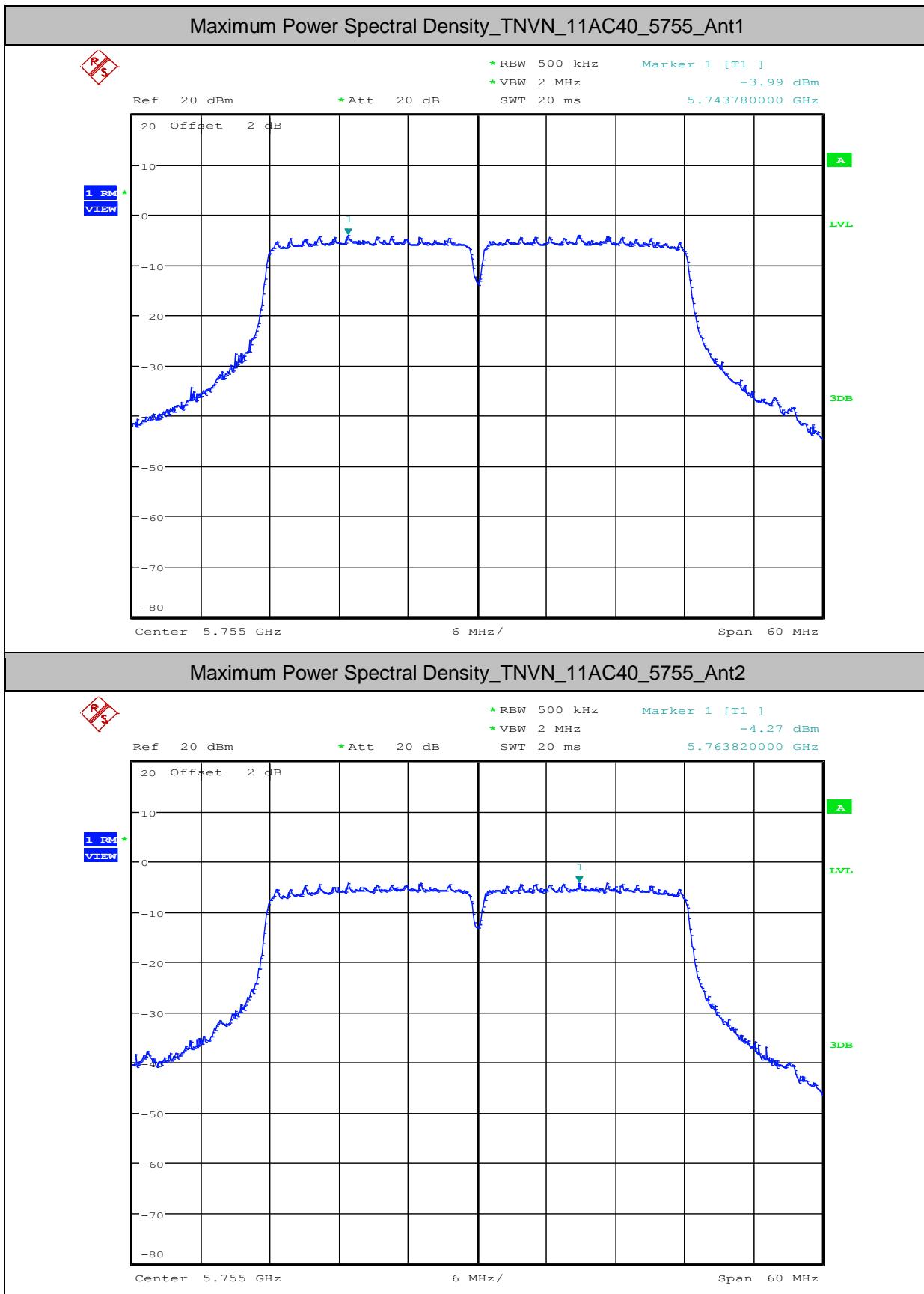


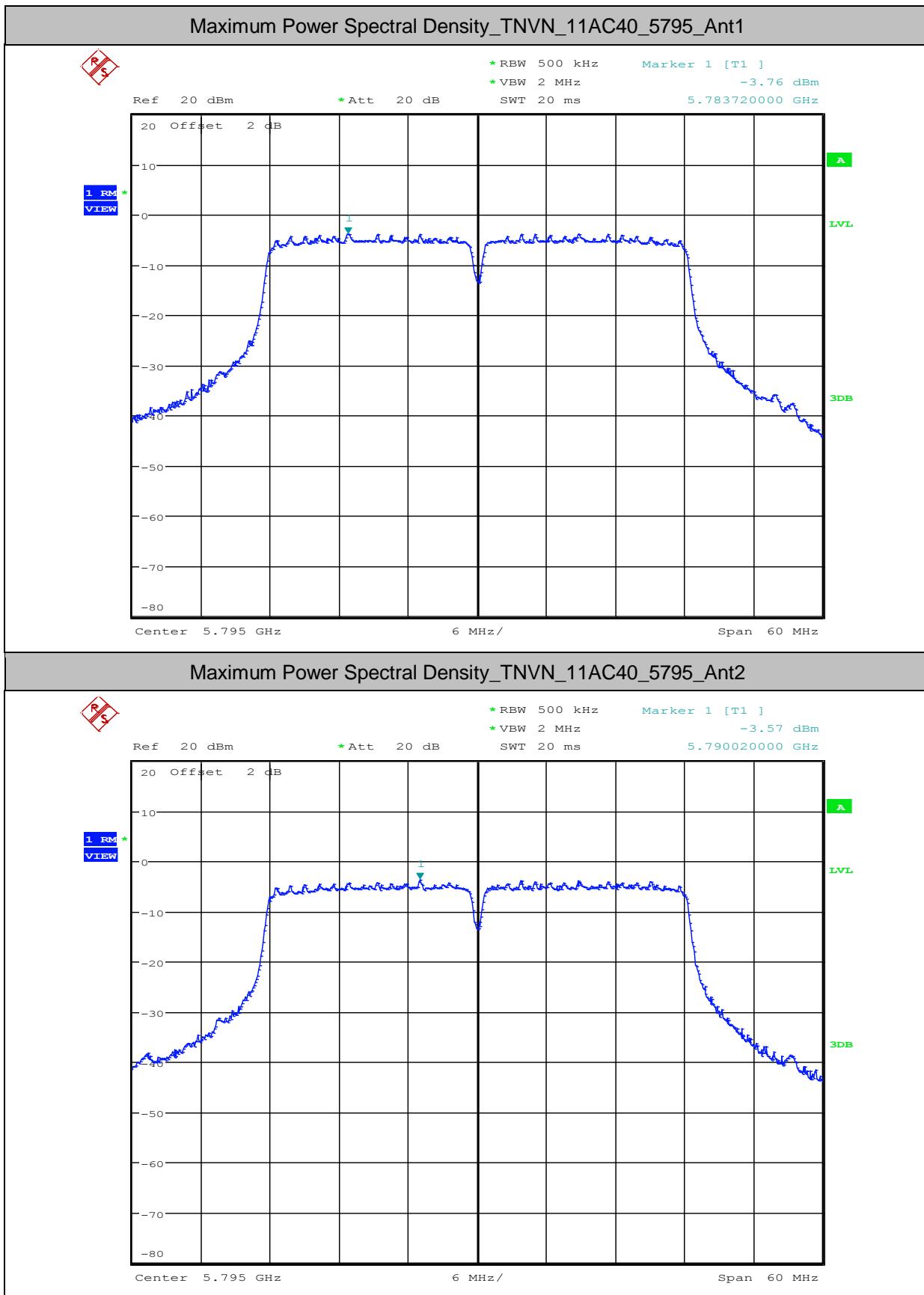












5.Duty Cycle (x)

Test Mode	Test Channel	Ant	Duty Cycle[%]	10log(1/x) Factor[dB]
11A	5180	Ant1	95.98	0.18
11A	5180	Ant2	95.98	0.18
11A	5220	Ant1	96.21	0.17
11A	5220	Ant2	96.21	0.17
11A	5240	Ant1	95.98	0.18
11A	5240	Ant2	96.21	0.17
11A	5745	Ant1	95.75	0.19
11A	5745	Ant2	95.99	0.18
11A	5785	Ant1	95.98	0.18
11A	5785	Ant2	95.98	0.18
11A	5825	Ant1	95.98	0.18
11A	5825	Ant2	95.98	0.18
11N20	5180	Ant1	94.97	0.22
11N20	5180	Ant2	93.33	0.3
11N20	5220	Ant1	93.1	0.31
11N20	5220	Ant2	92.86	0.32
11N20	5240	Ant1	93.1	0.31
11N20	5240	Ant2	93.1	0.31
11N20	5745	Ant1	94.74	0.23
11N20	5745	Ant2	94.74	0.23
11N20	5785	Ant1	93.1	0.31
11N20	5785	Ant2	93.1	0.31
11N20	5825	Ant1	93.33	0.3
11N20	5825	Ant2	93.1	0.31
11N40	5190	Ant1	92.8	0.32
11N40	5190	Ant2	92.42	0.34
11N40	5230	Ant1	91.85	0.37
11N40	5230	Ant2	92.8	0.32
11N40	5755	Ant1	92.05	0.36
11N40	5755	Ant2	92.8	0.32
11N40	5795	Ant1	93.16	0.31



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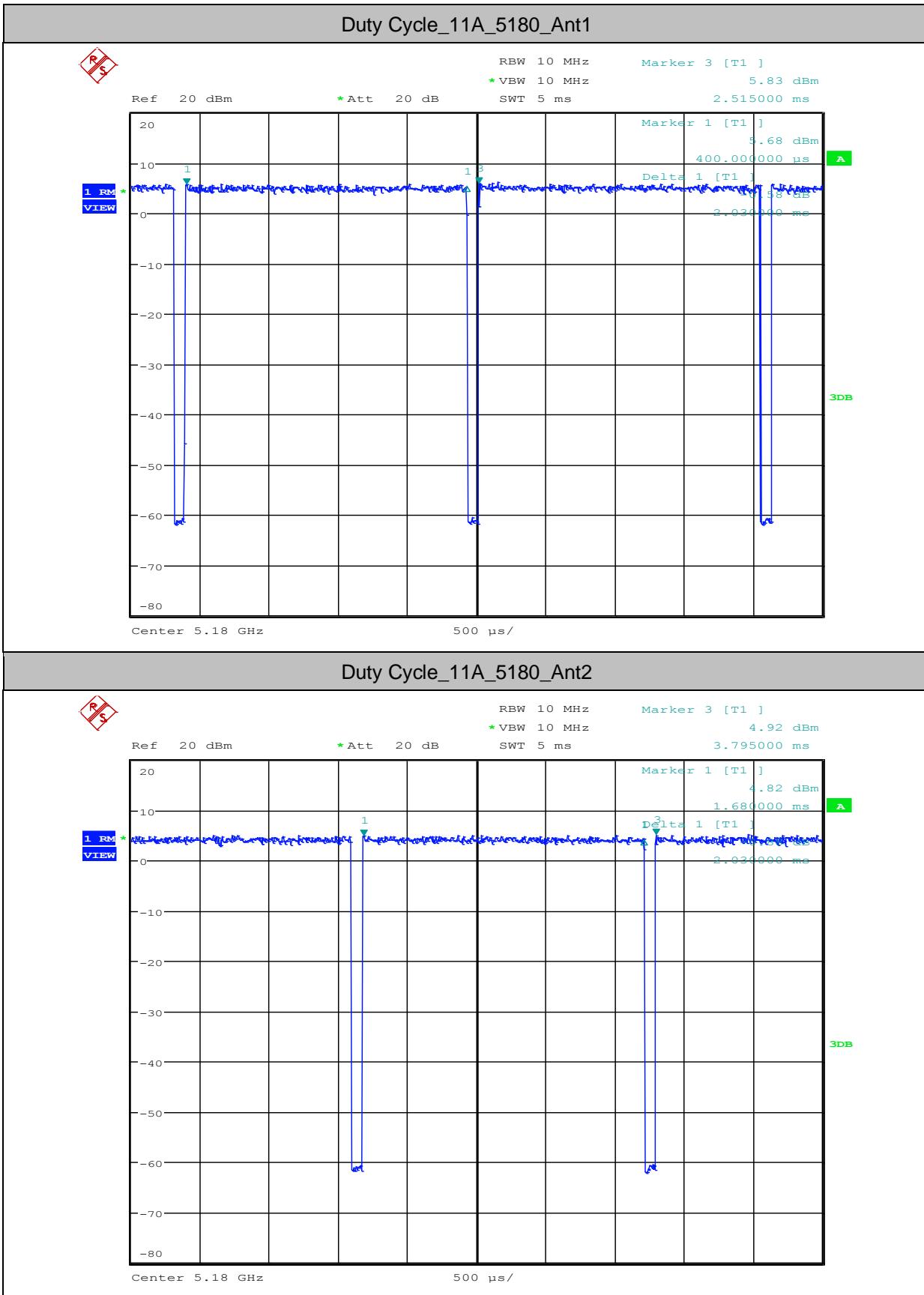
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11N40	5795	Ant2	91.32	0.39
11AC20	5180	Ant1	93.84	0.28
11AC20	5180	Ant2	93.6	0.29
11AC20	5220	Ant1	94.29	0.26
11AC20	5220	Ant2	93.6	0.29
11AC20	5240	Ant1	93.84	0.28
11AC20	5240	Ant2	95.24	0.21
11AC20	5745	Ant1	95.24	0.21
11AC20	5745	Ant2	93.84	0.28
11AC20	5785	Ant1	92.48	0.34
11AC20	5785	Ant2	93.83	0.28
11AC20	5825	Ant1	95.24	0.21
11AC20	5825	Ant2	95.24	0.21
11AC80	5210	Ant1	86.34	0.64
11AC80	5210	Ant2	86.48	0.63
11AC80	5775	Ant1	86.95	0.61
11AC80	5775	Ant2	87	0.6
11AC40	5190	Ant1	93.03	0.31
11AC40	5190	Ant2	93.01	0.31
11AC40	5230	Ant1	92.83	0.32
11AC40	5230	Ant2	92.83	0.32
11AC40	5755	Ant1	93.21	0.31
11AC40	5755	Ant2	92.29	0.35
11AC40	5795	Ant1	92.66	0.33
11AC40	5795	Ant2	92.48	0.34



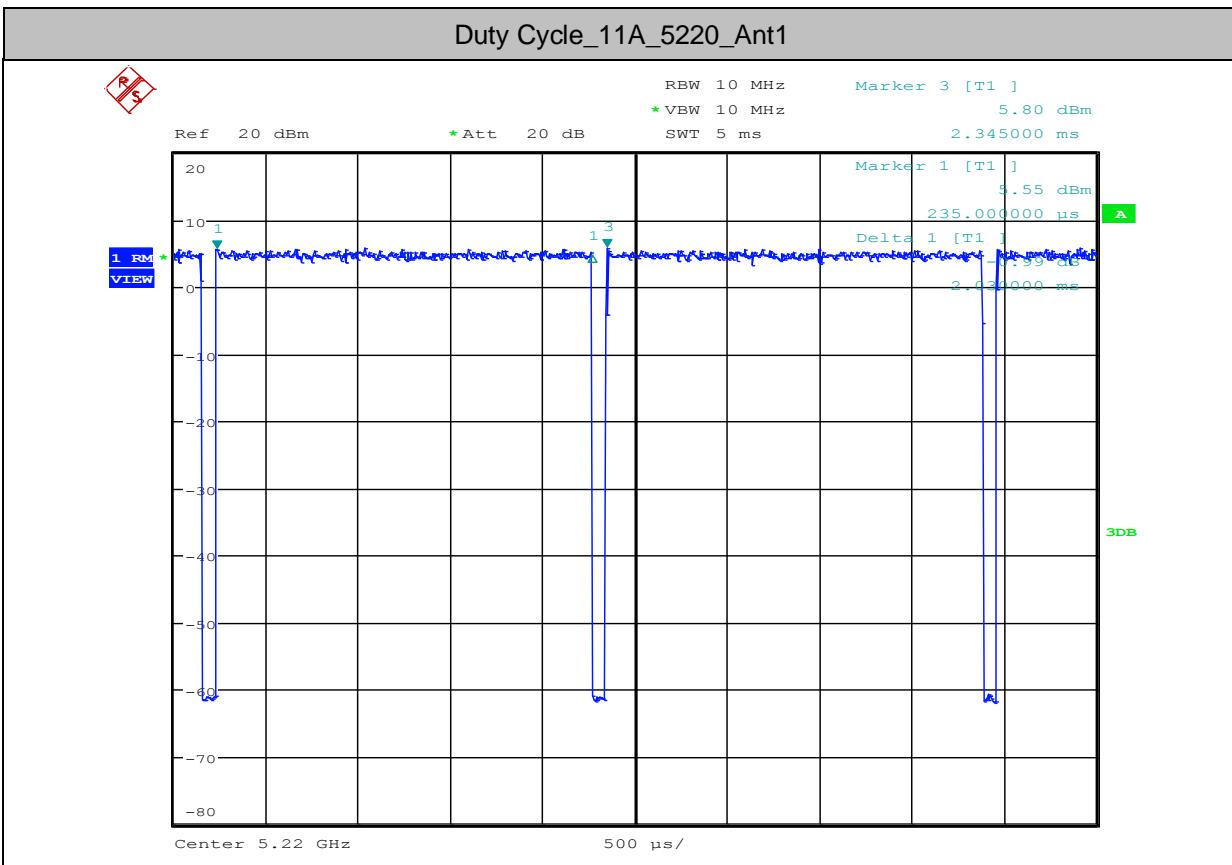
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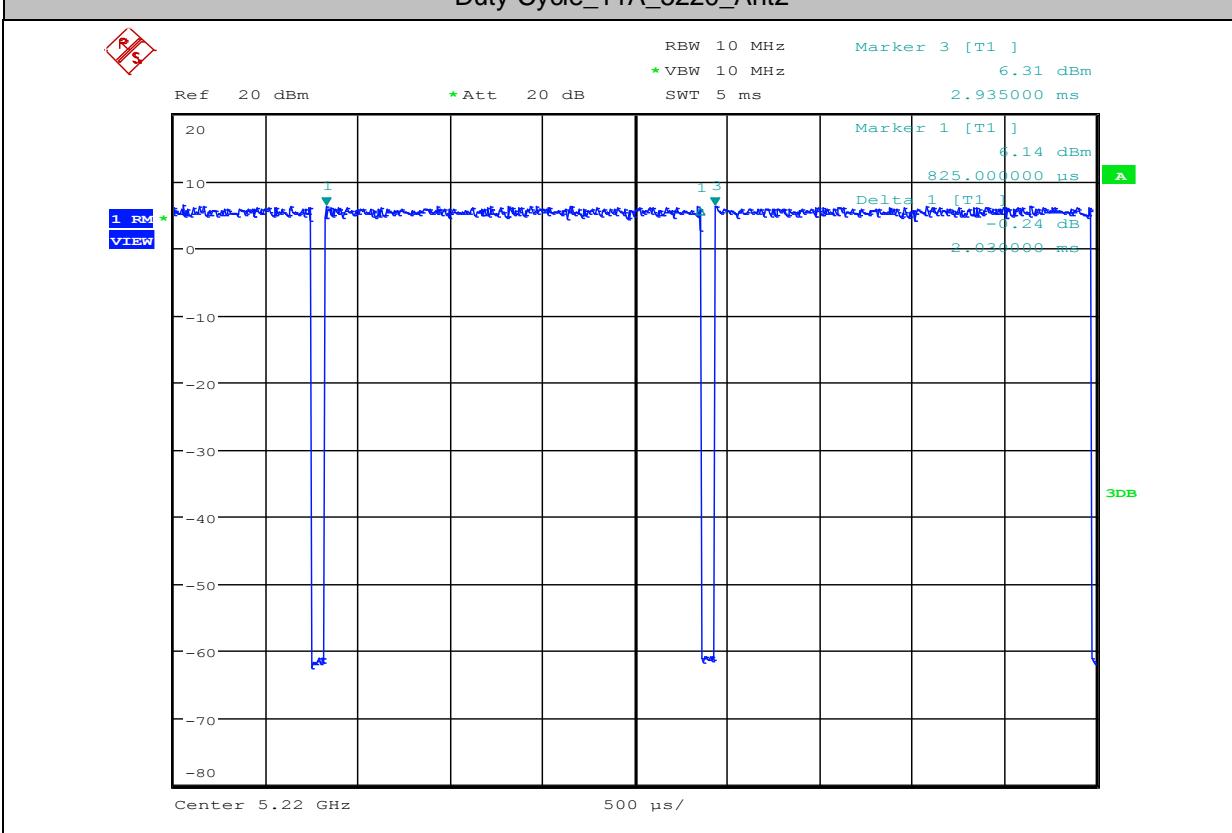


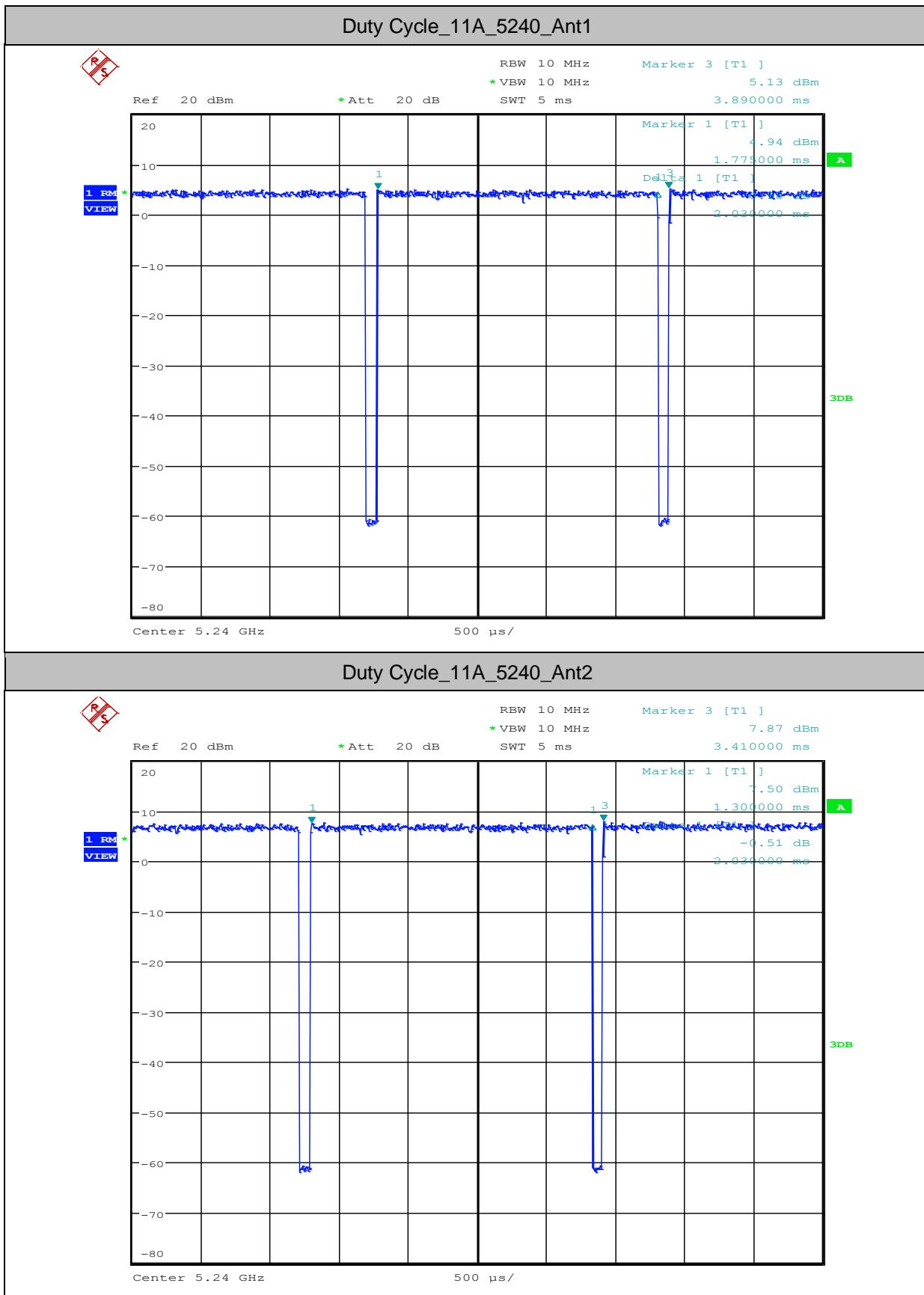
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Duty Cycle_11A_5220_Ant1



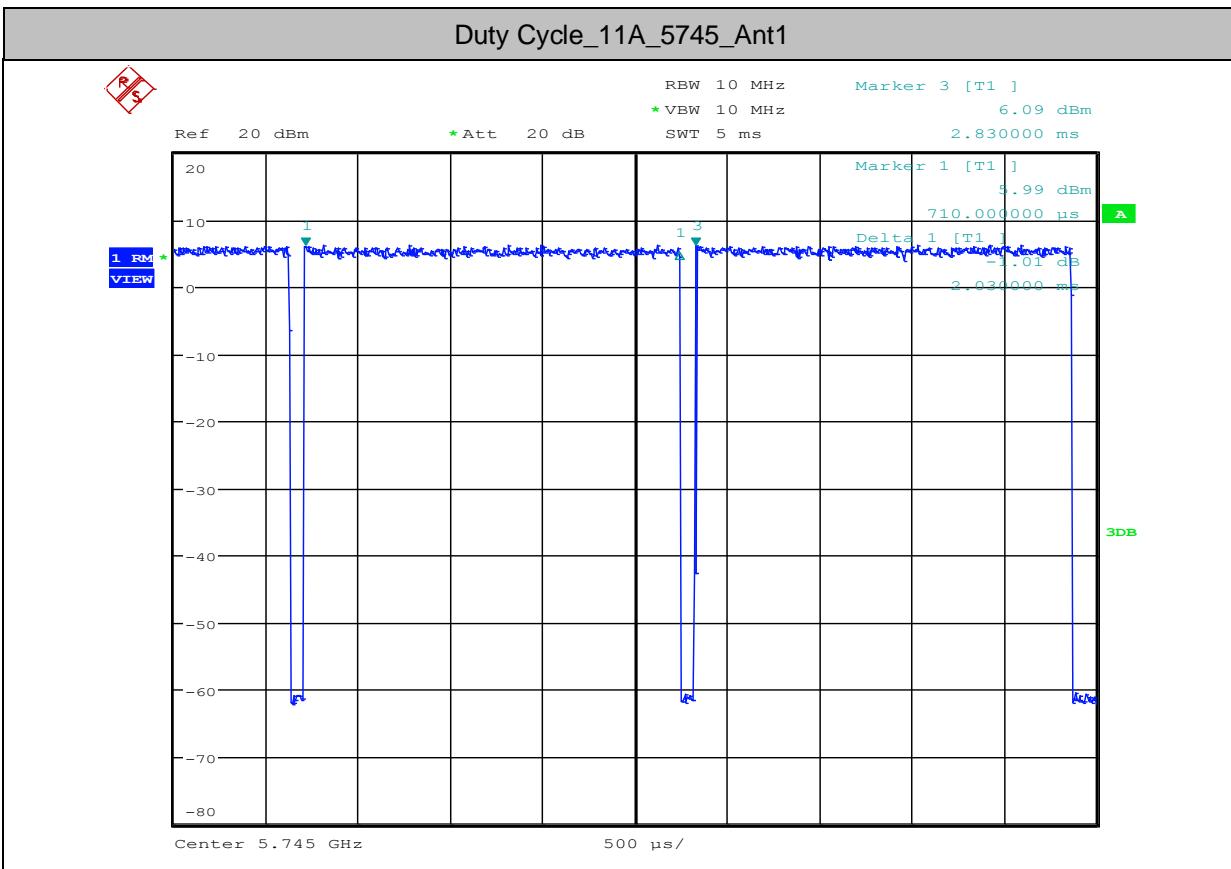
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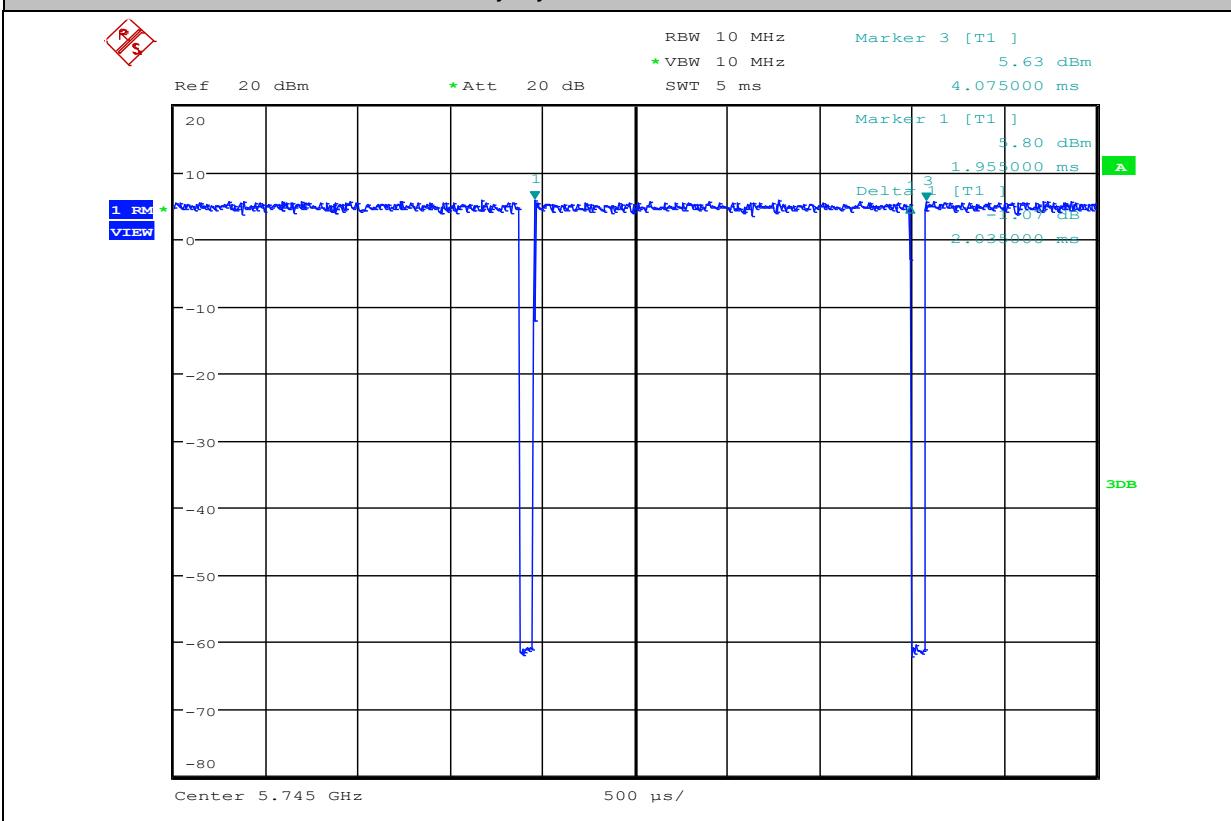


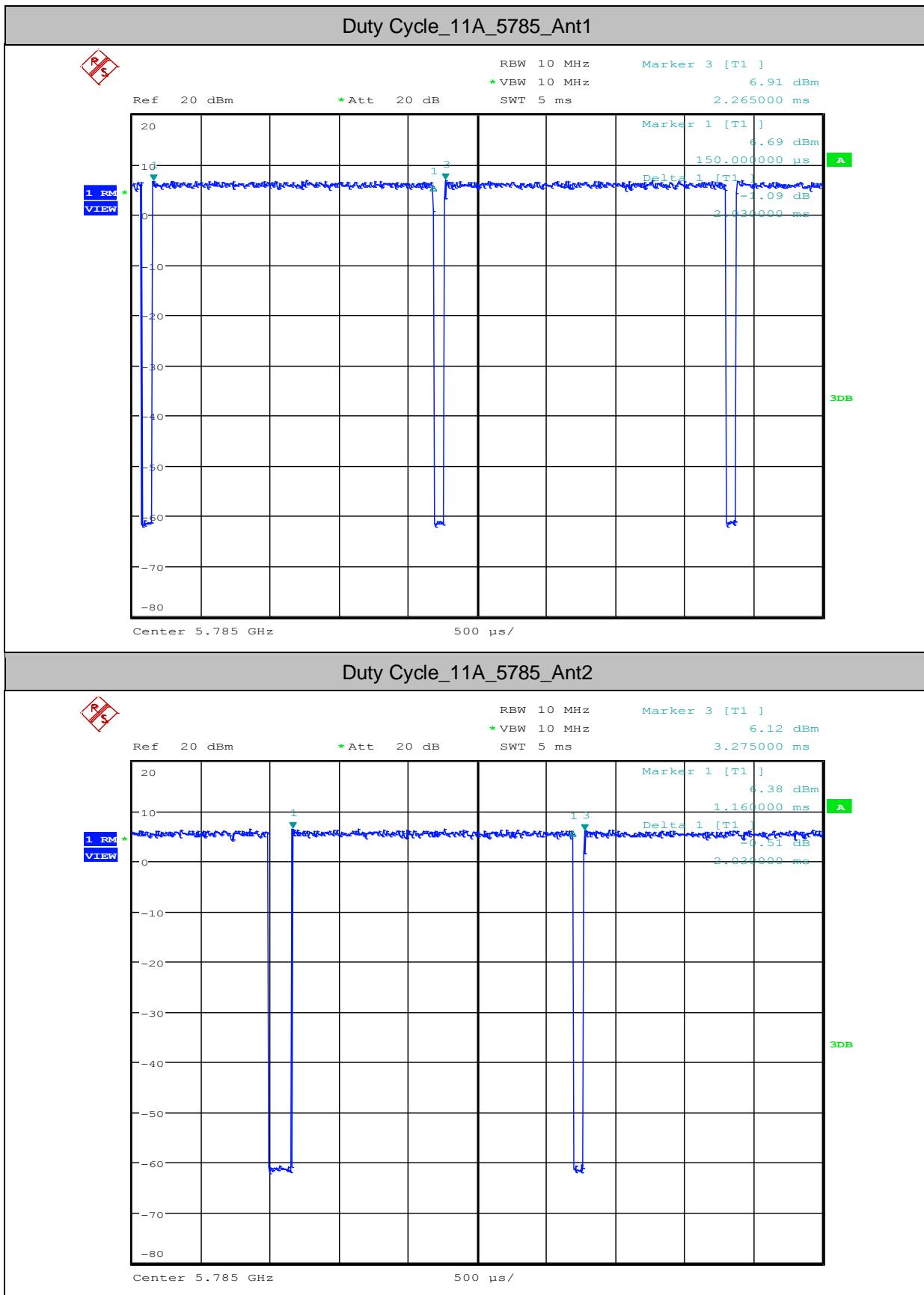
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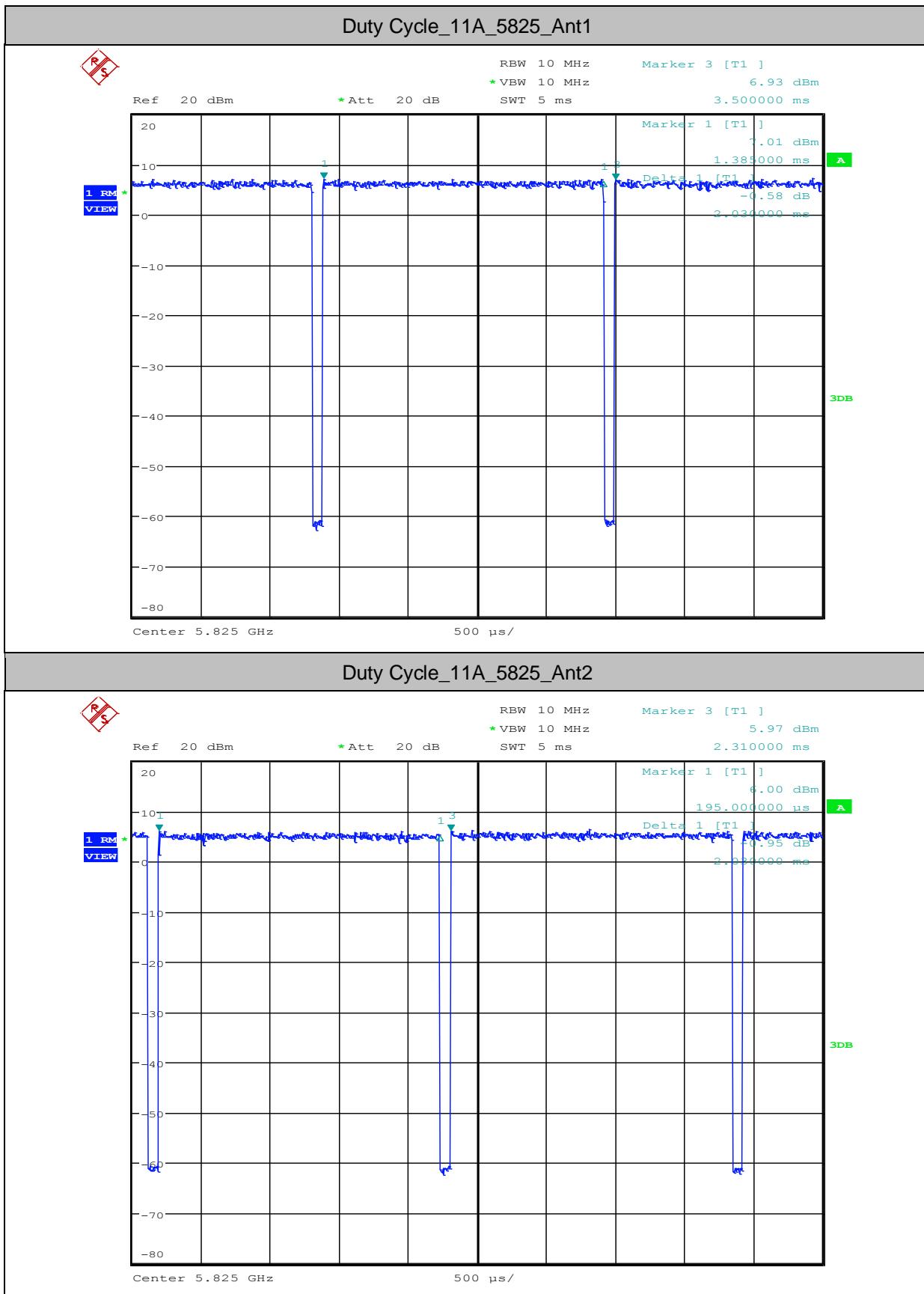
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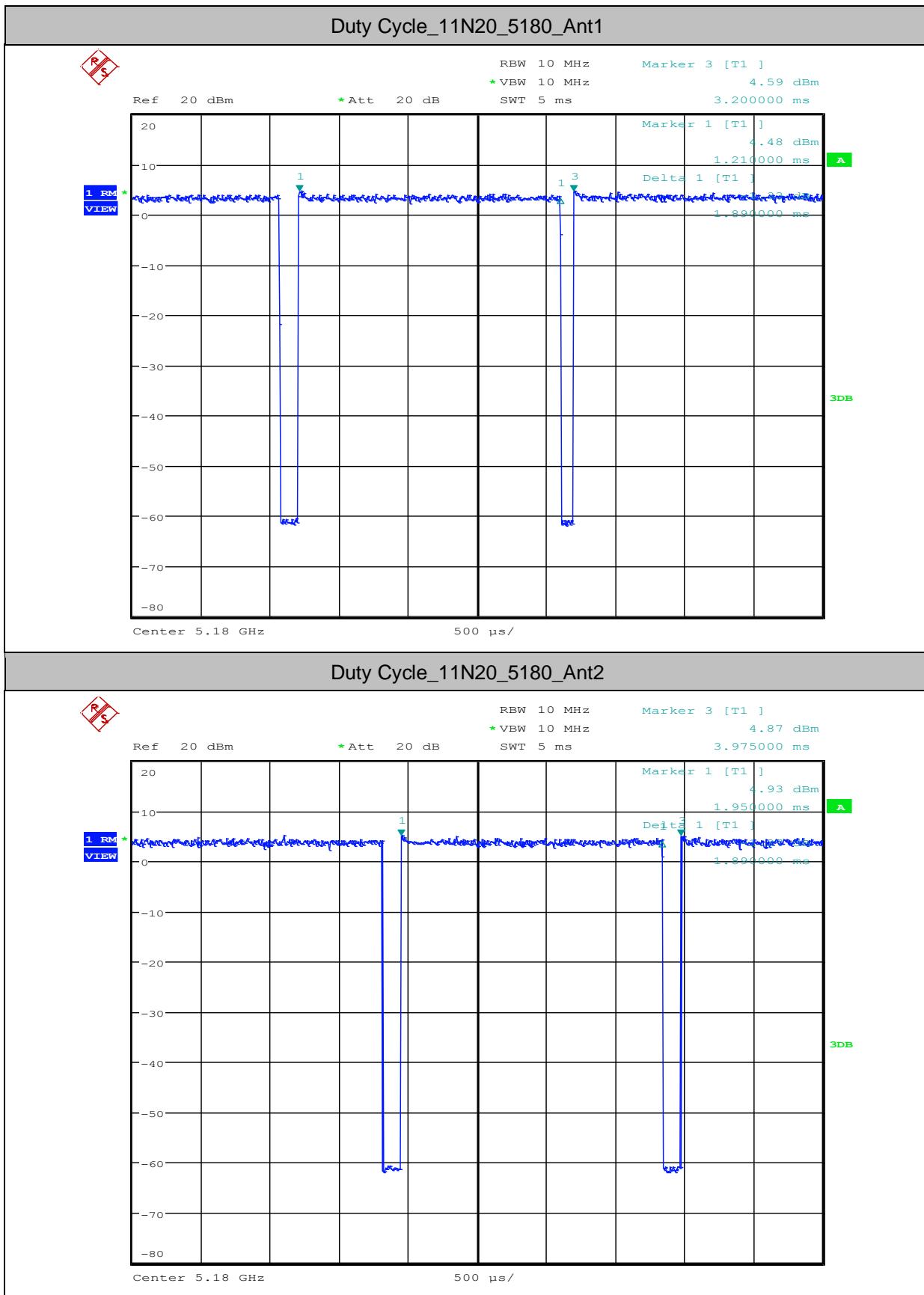


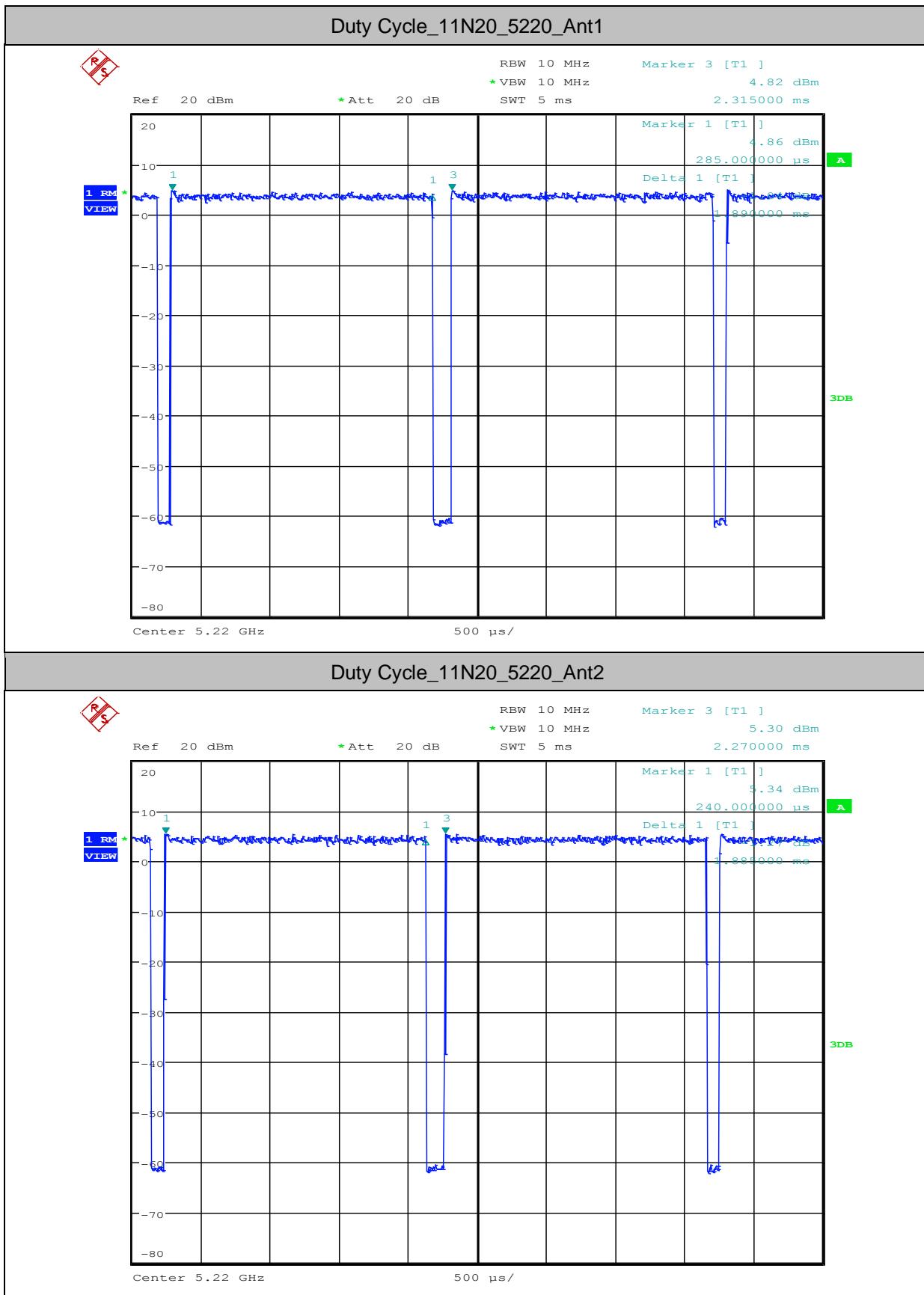
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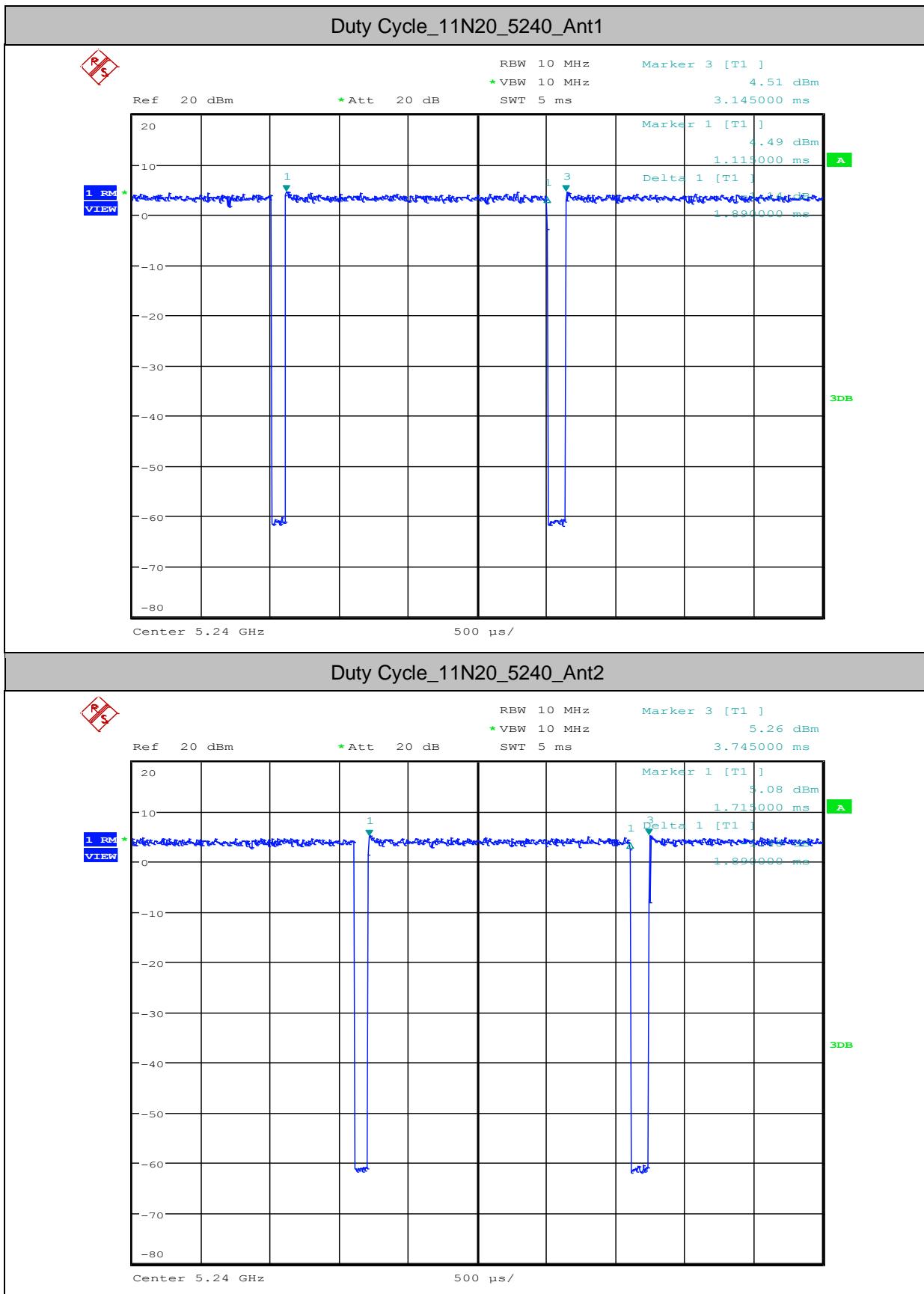




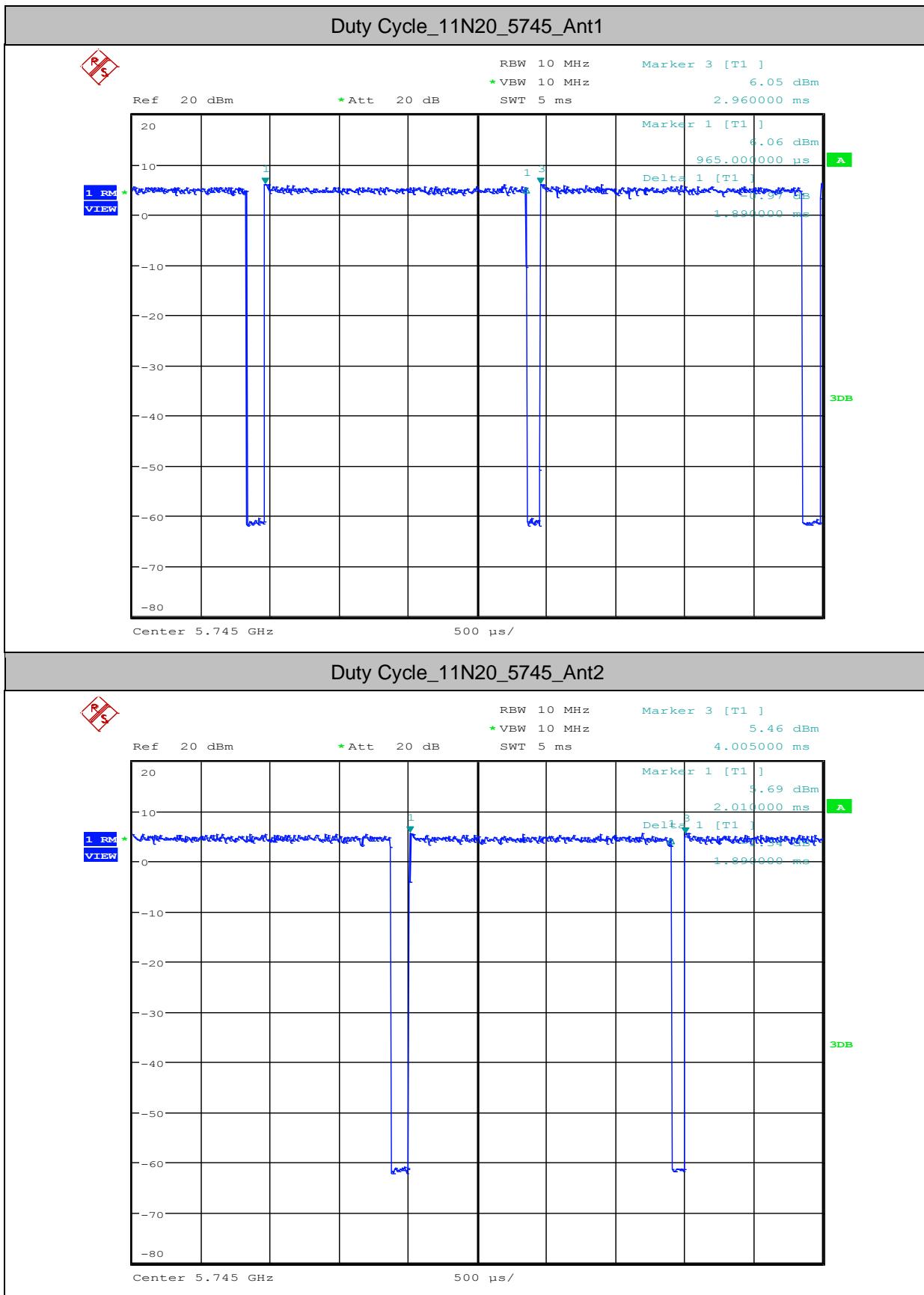


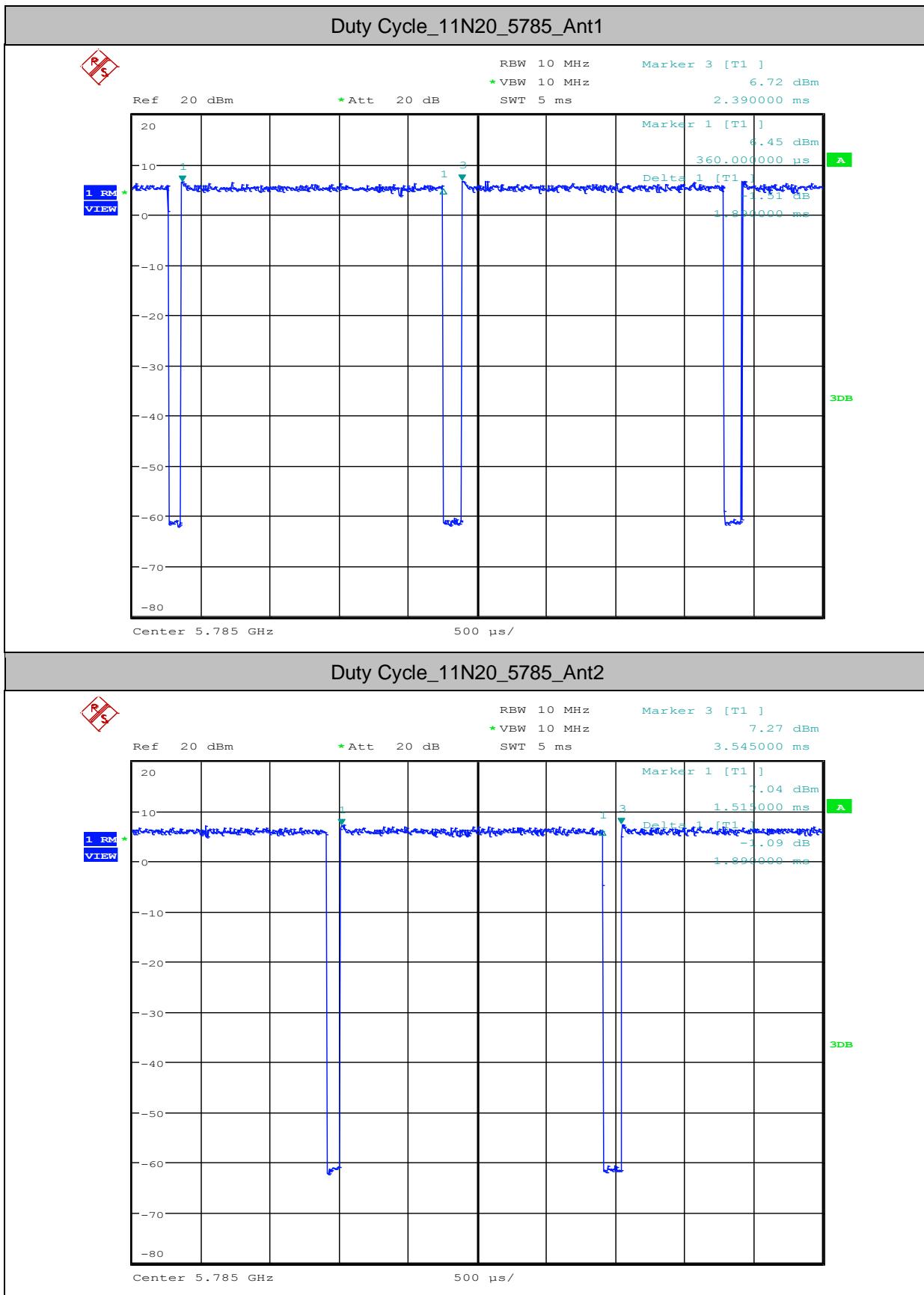


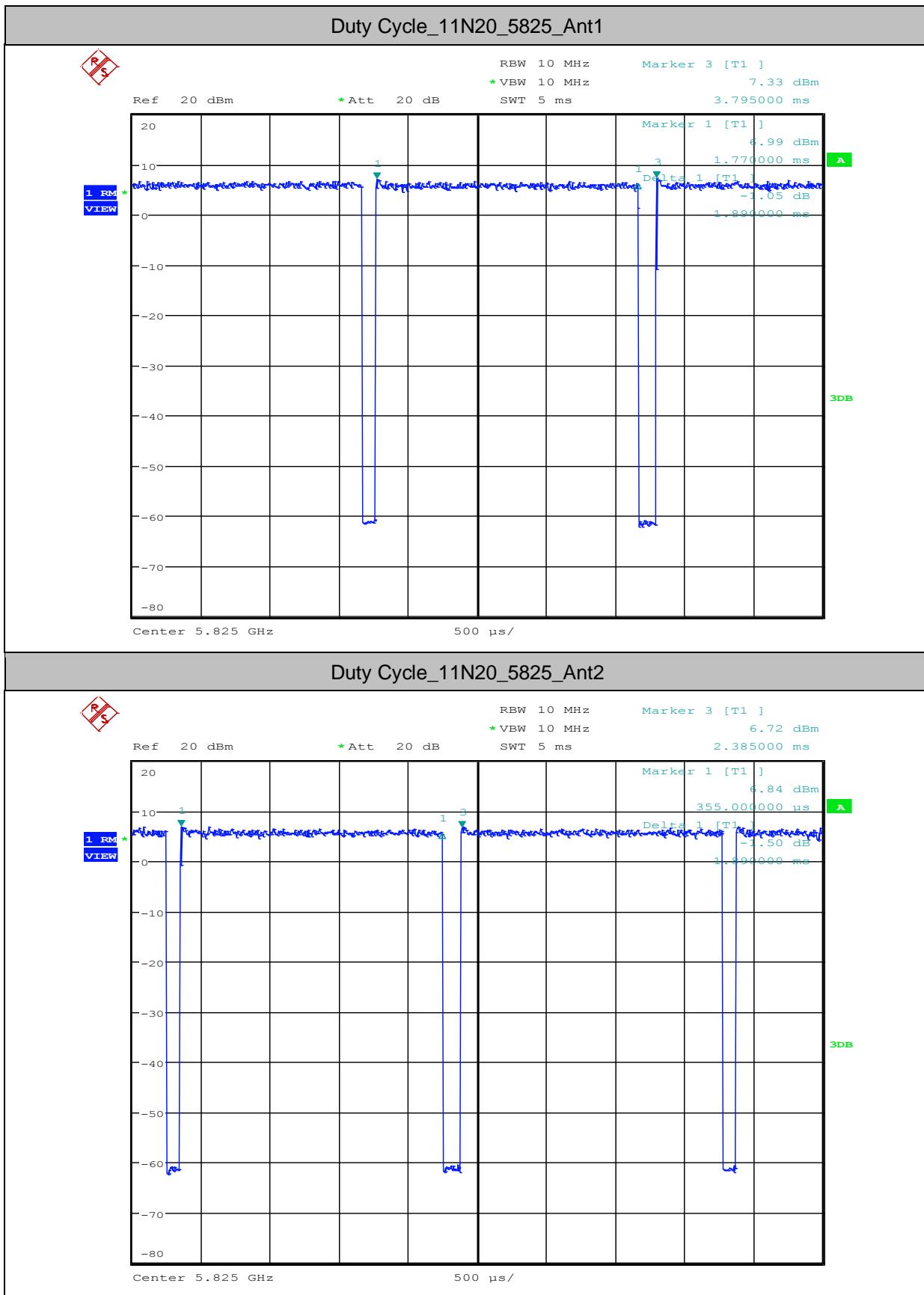
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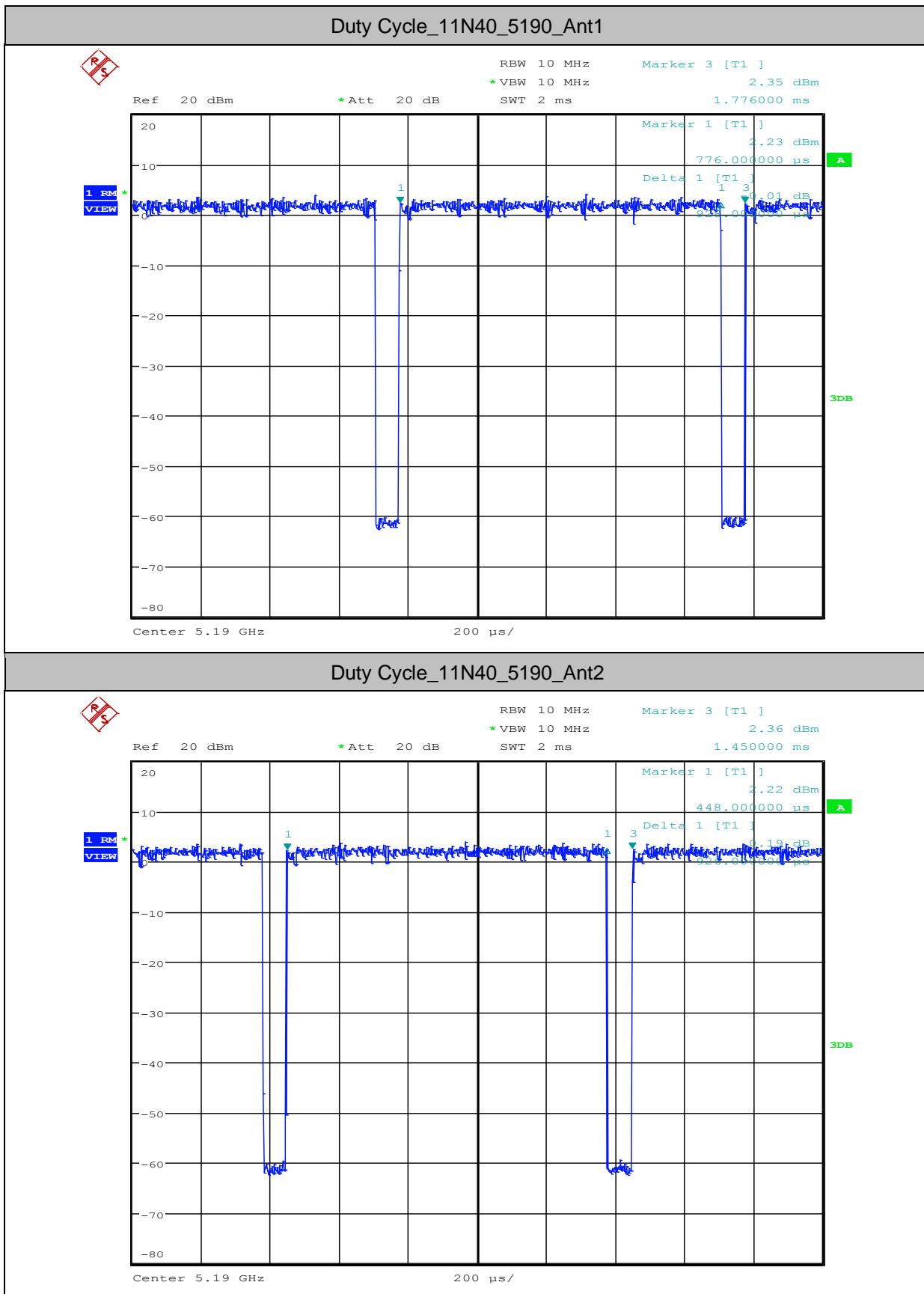


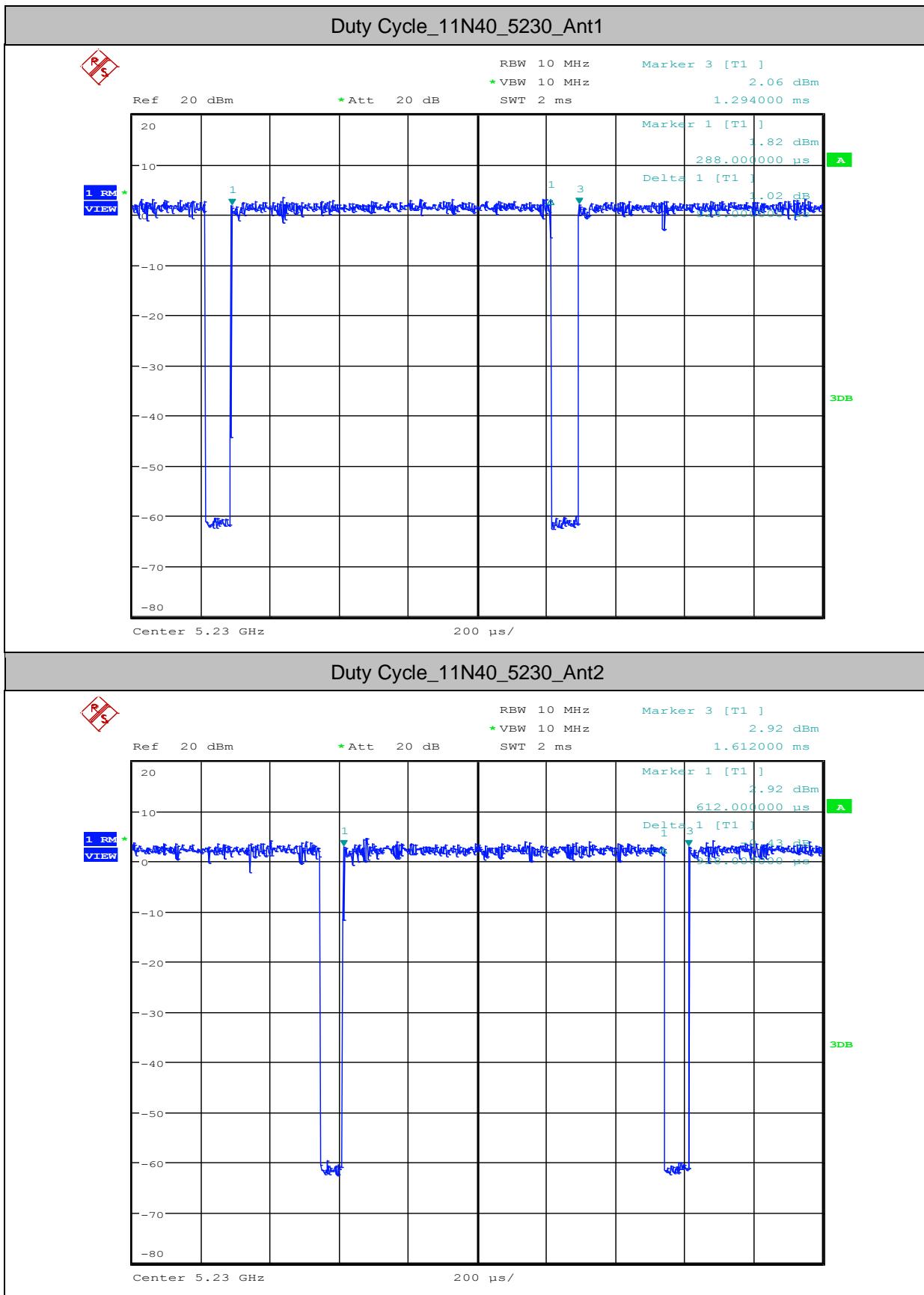
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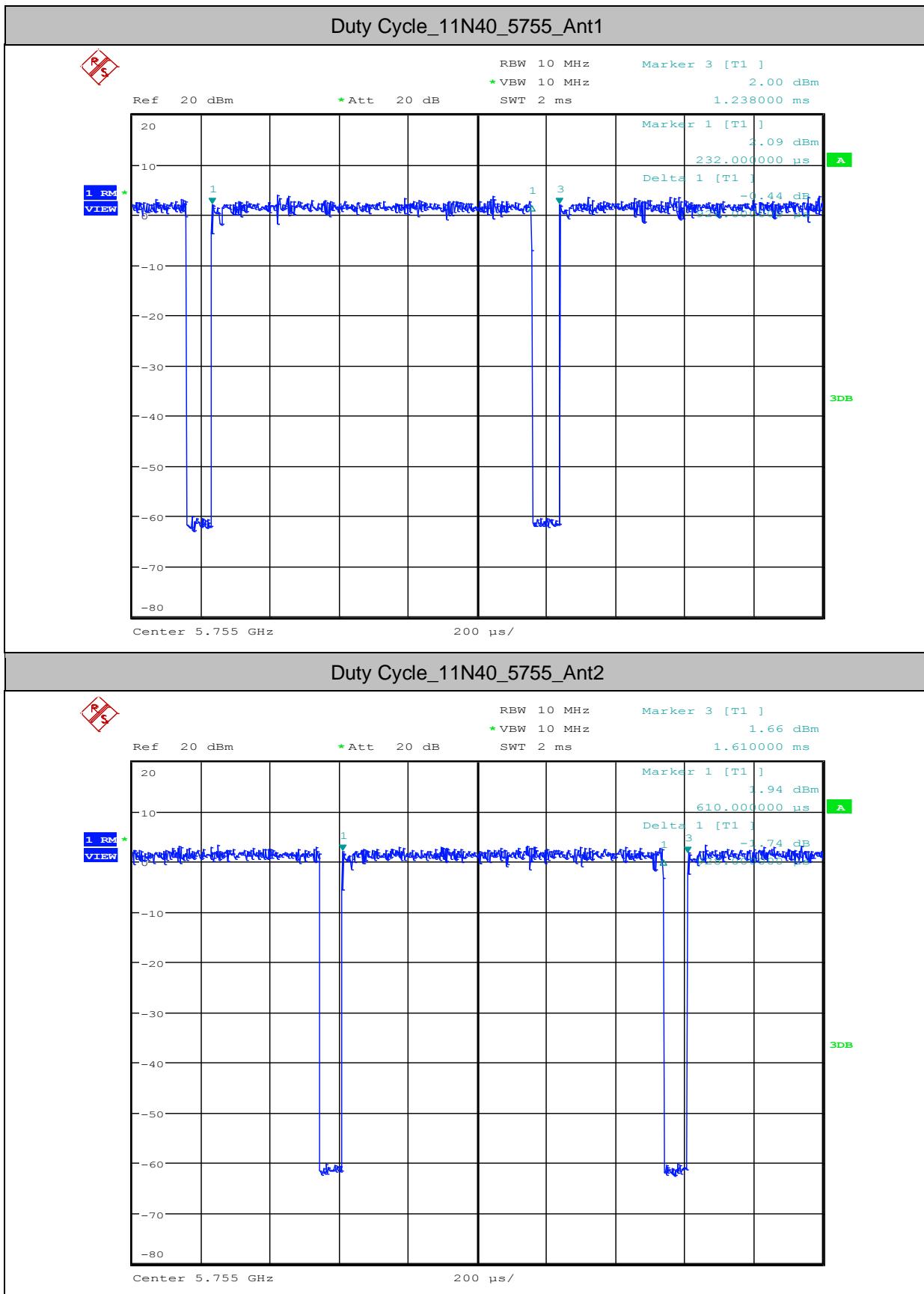




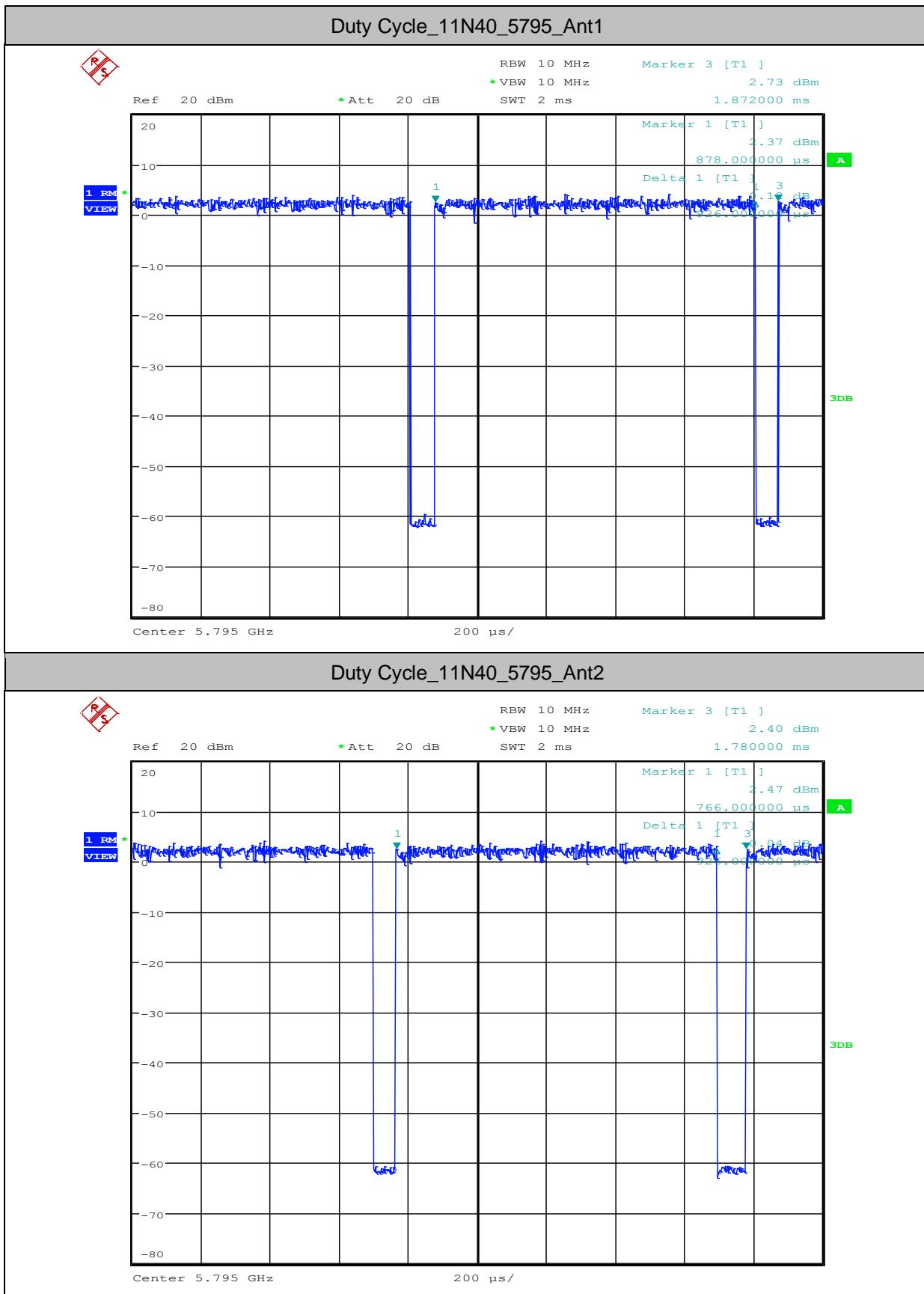


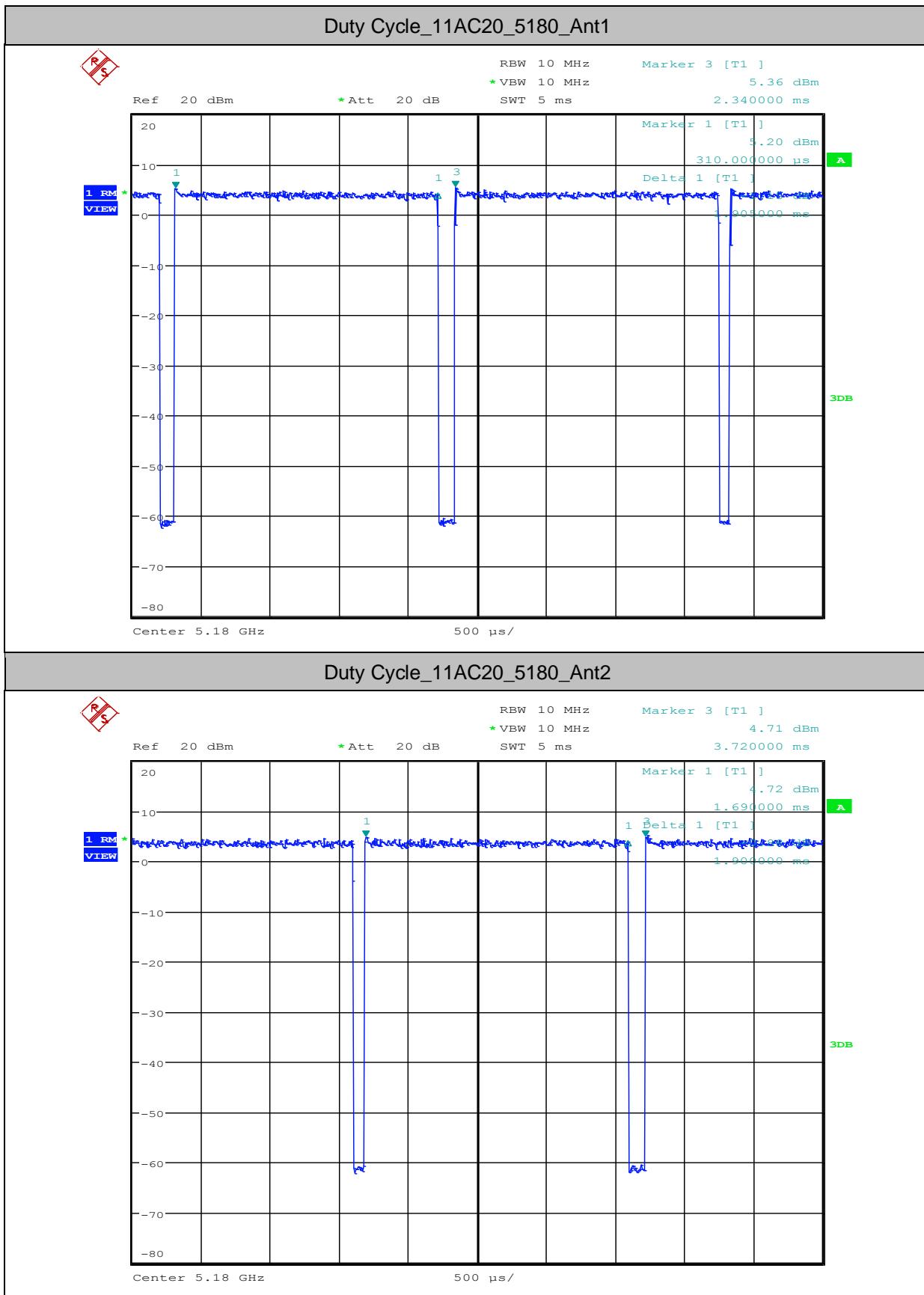
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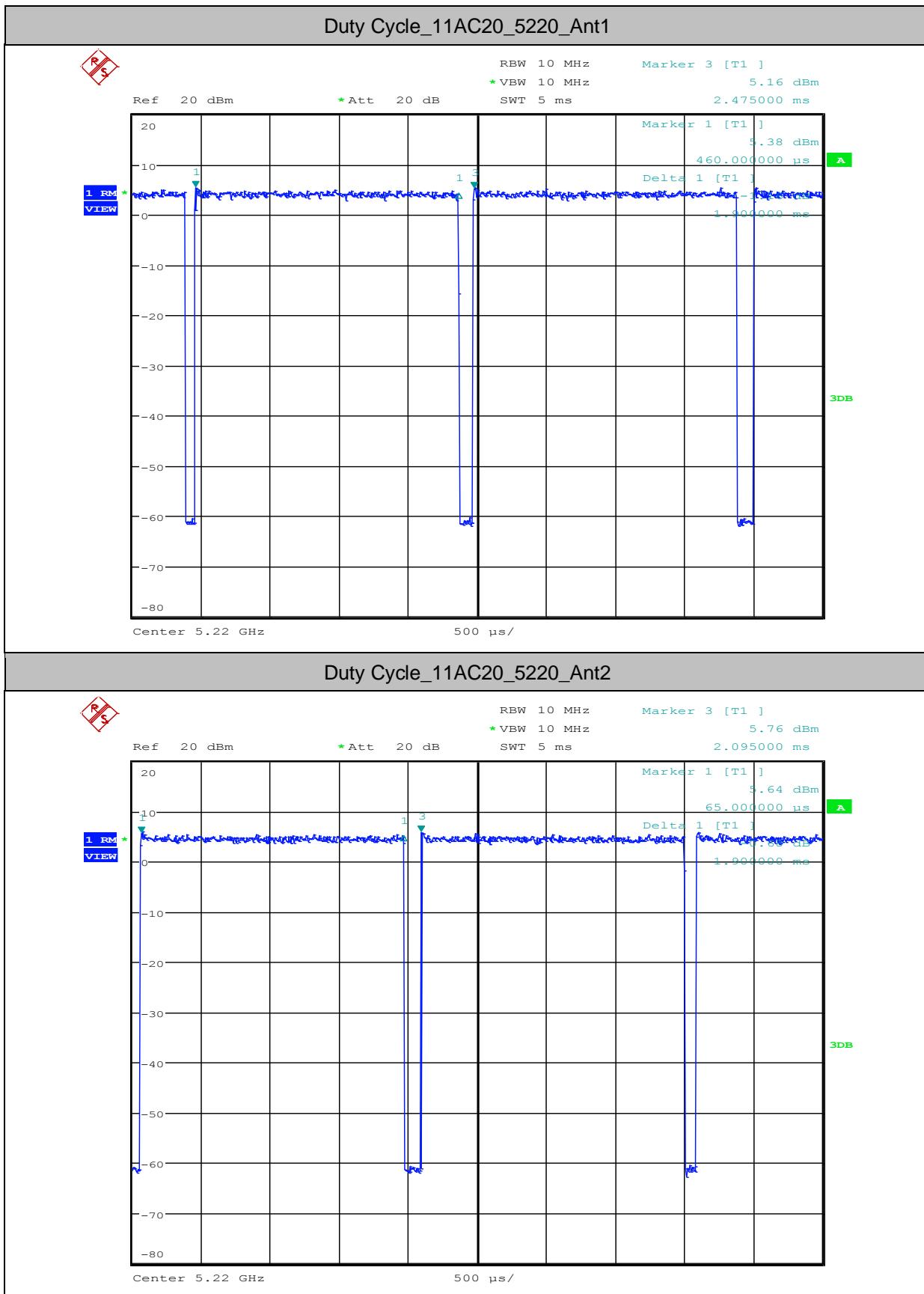


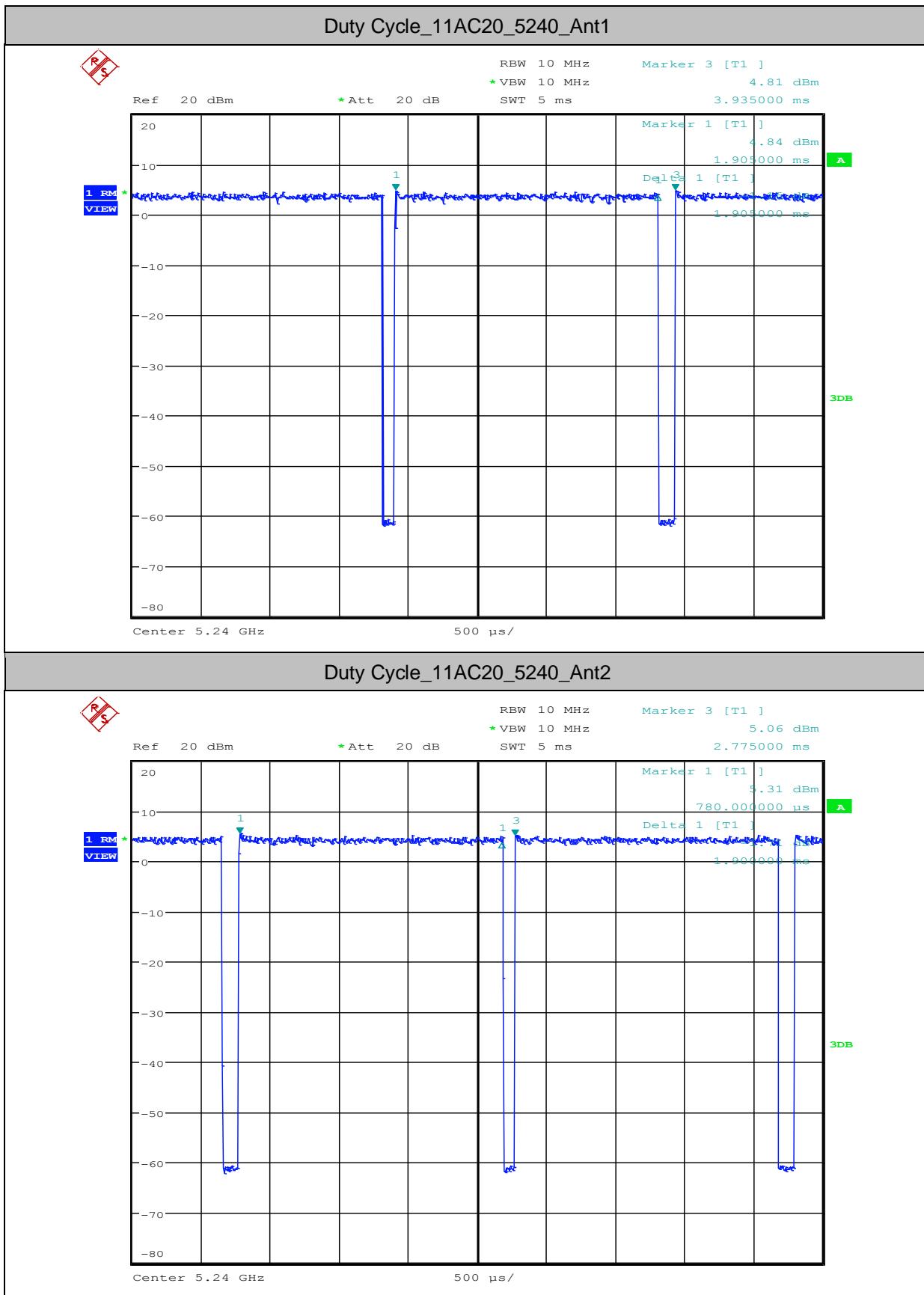
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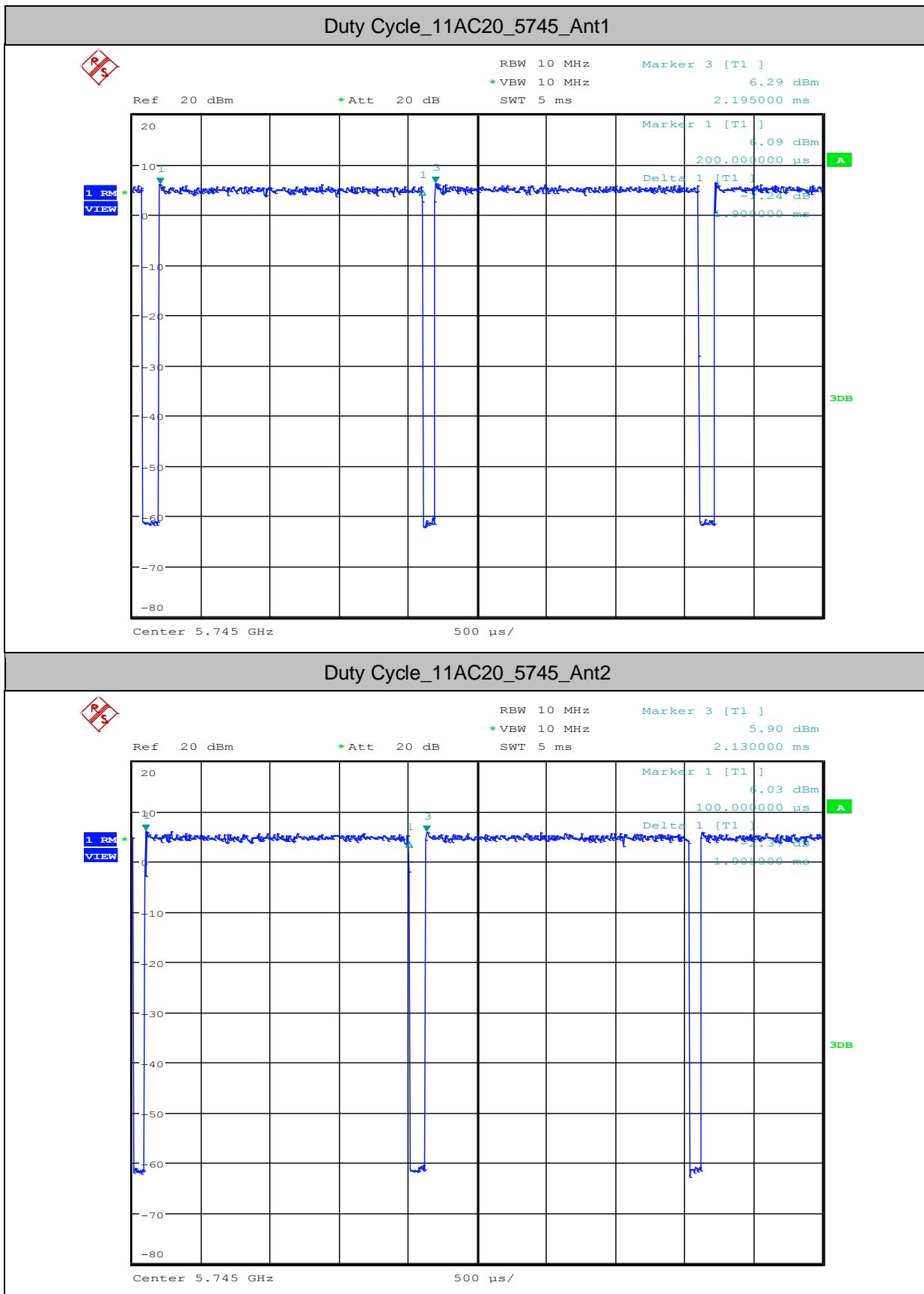


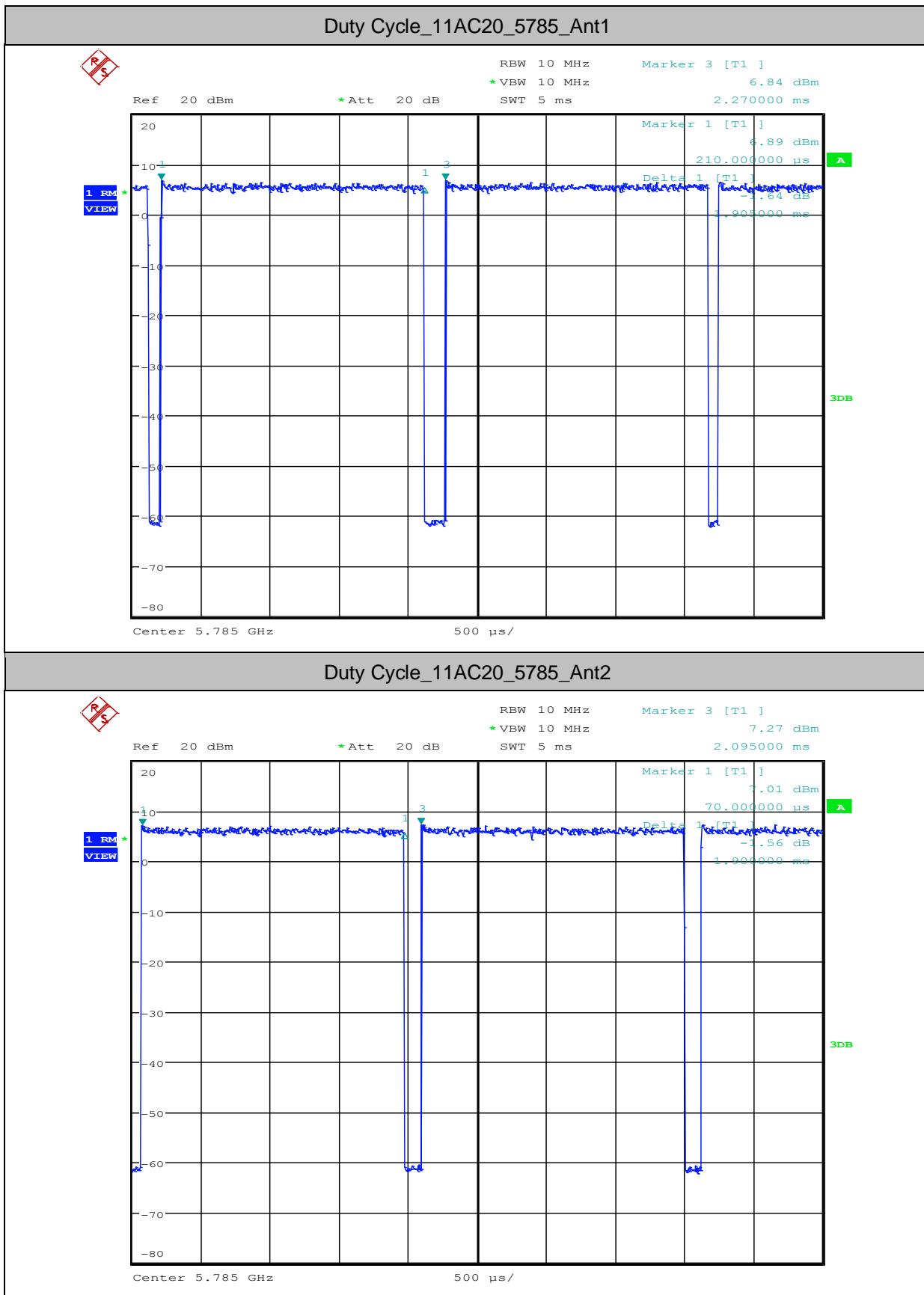


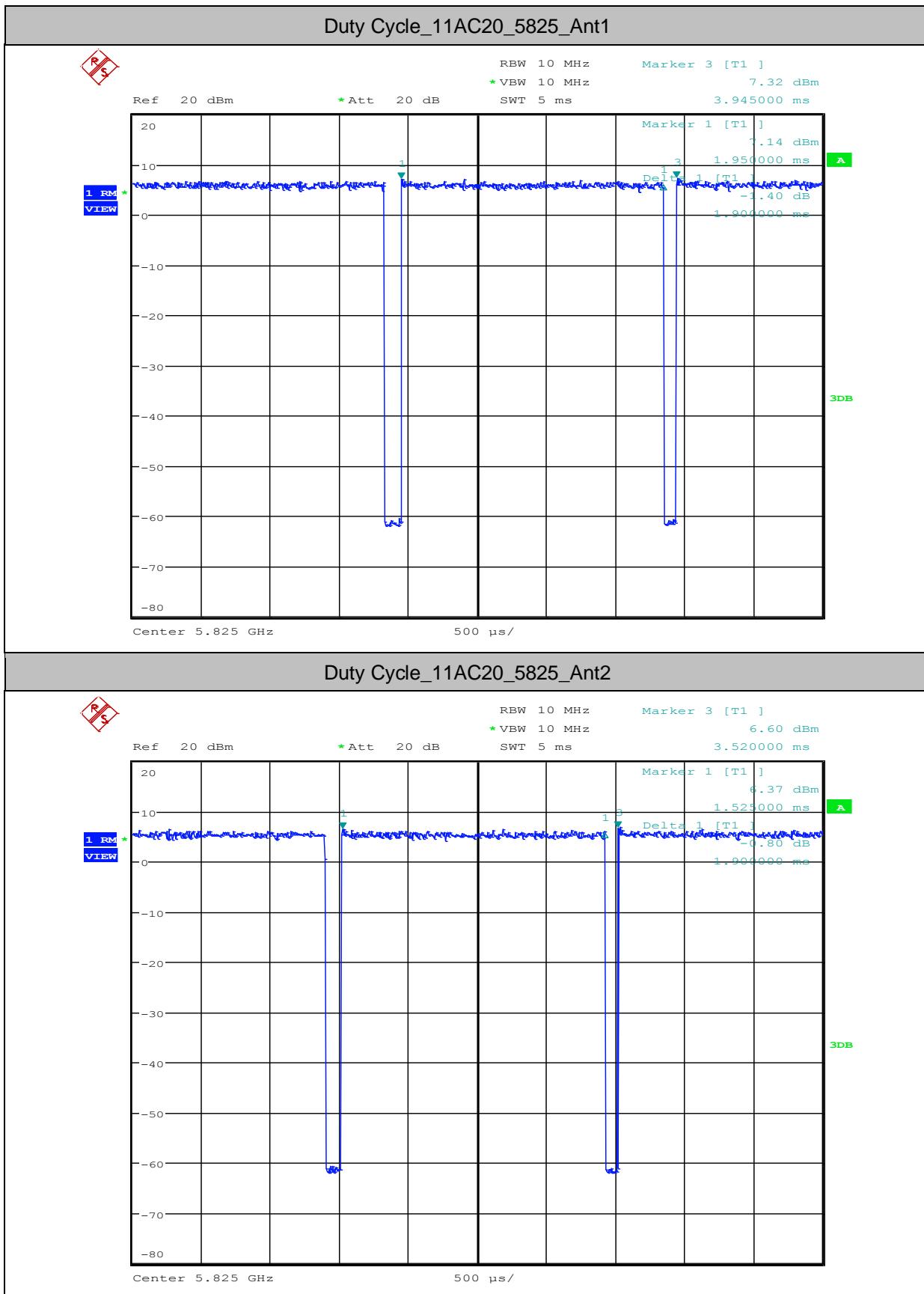
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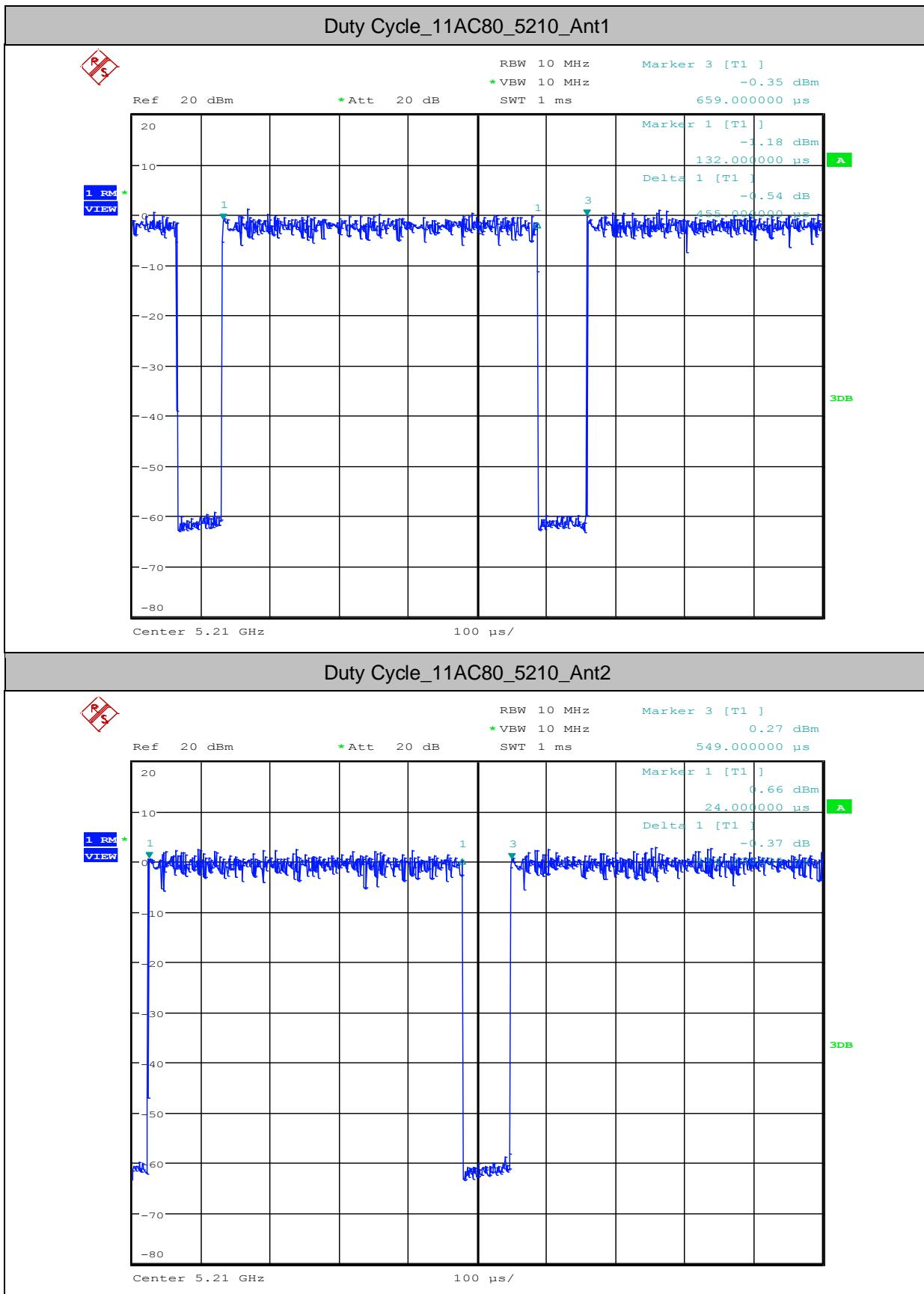




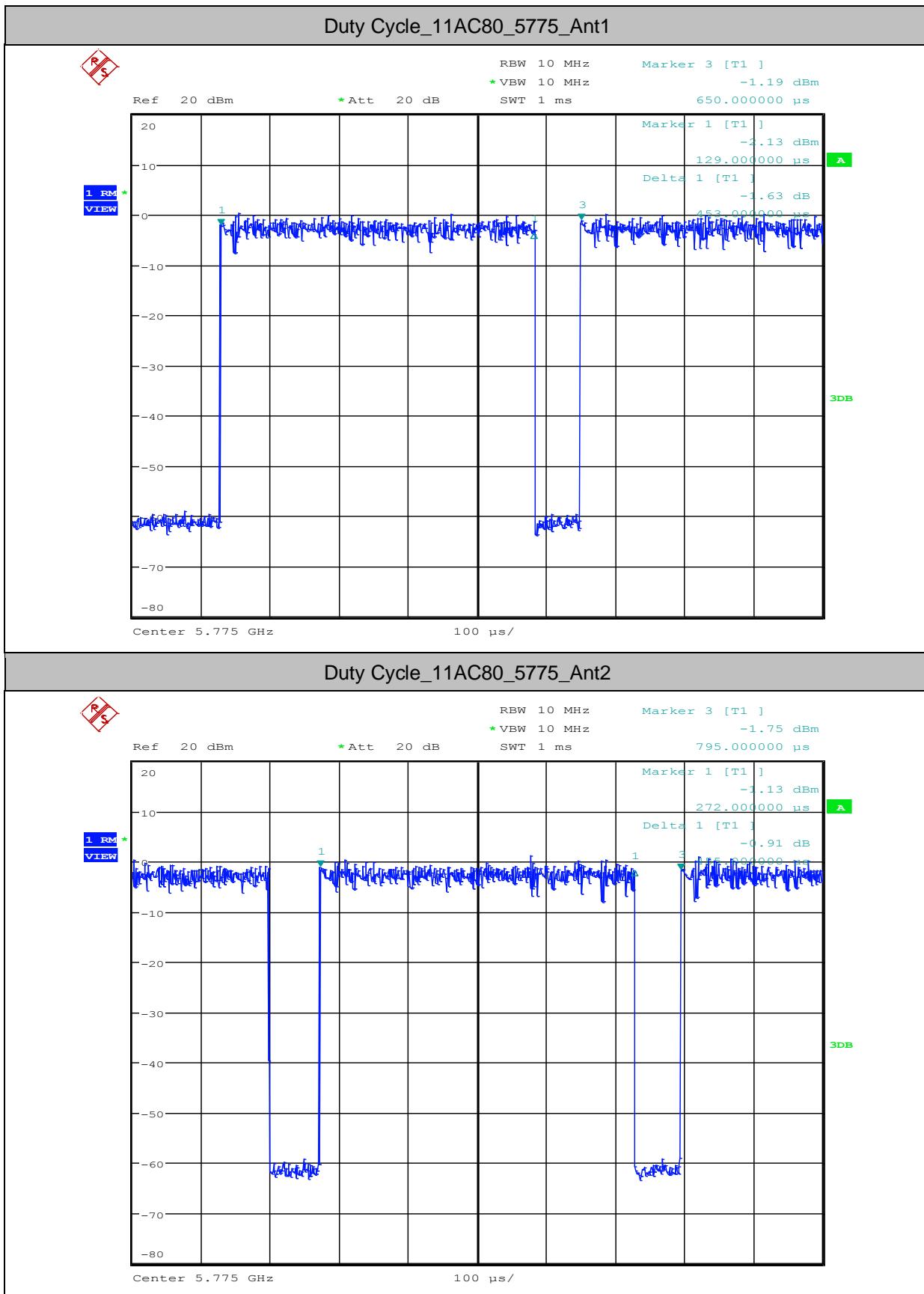




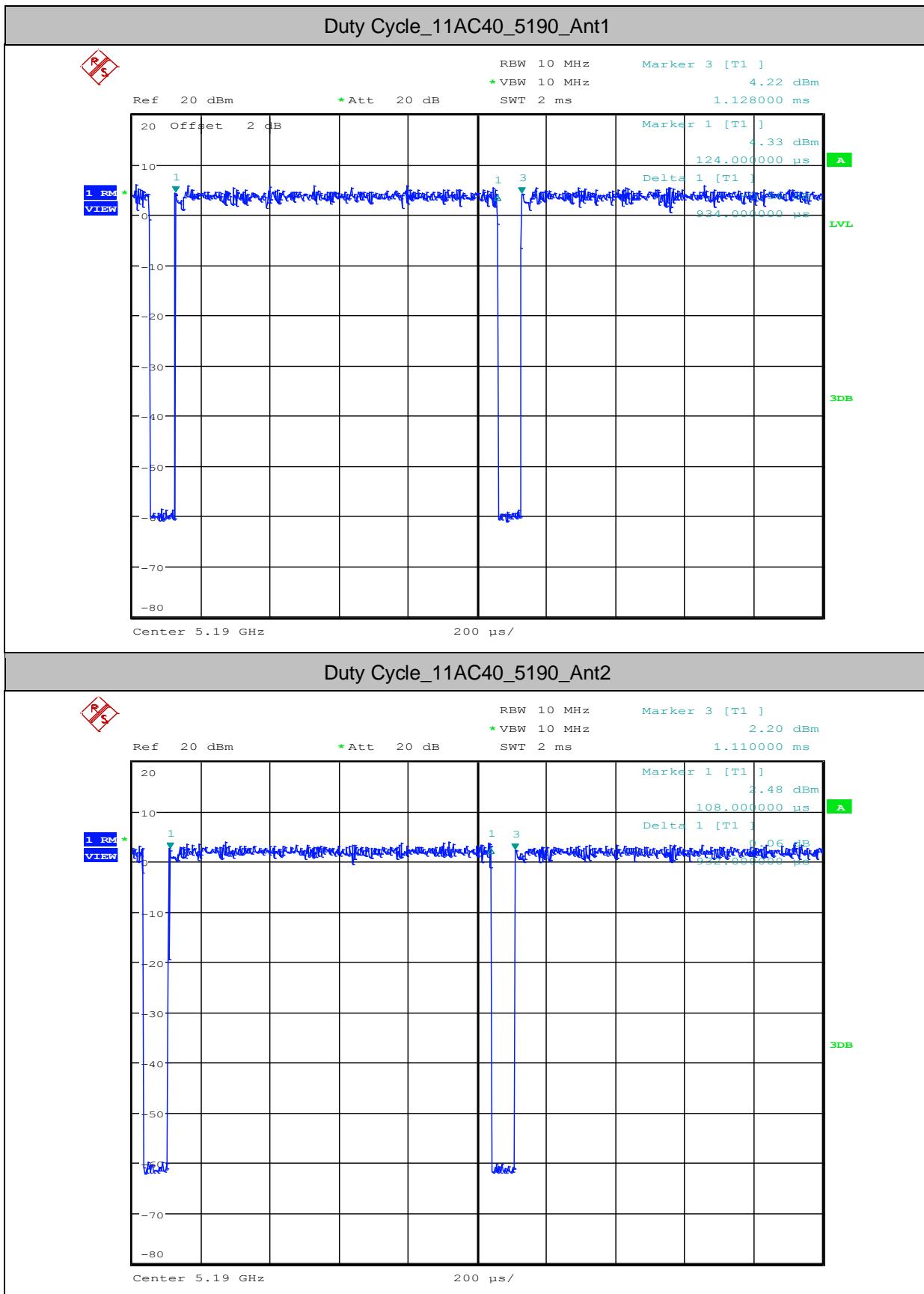
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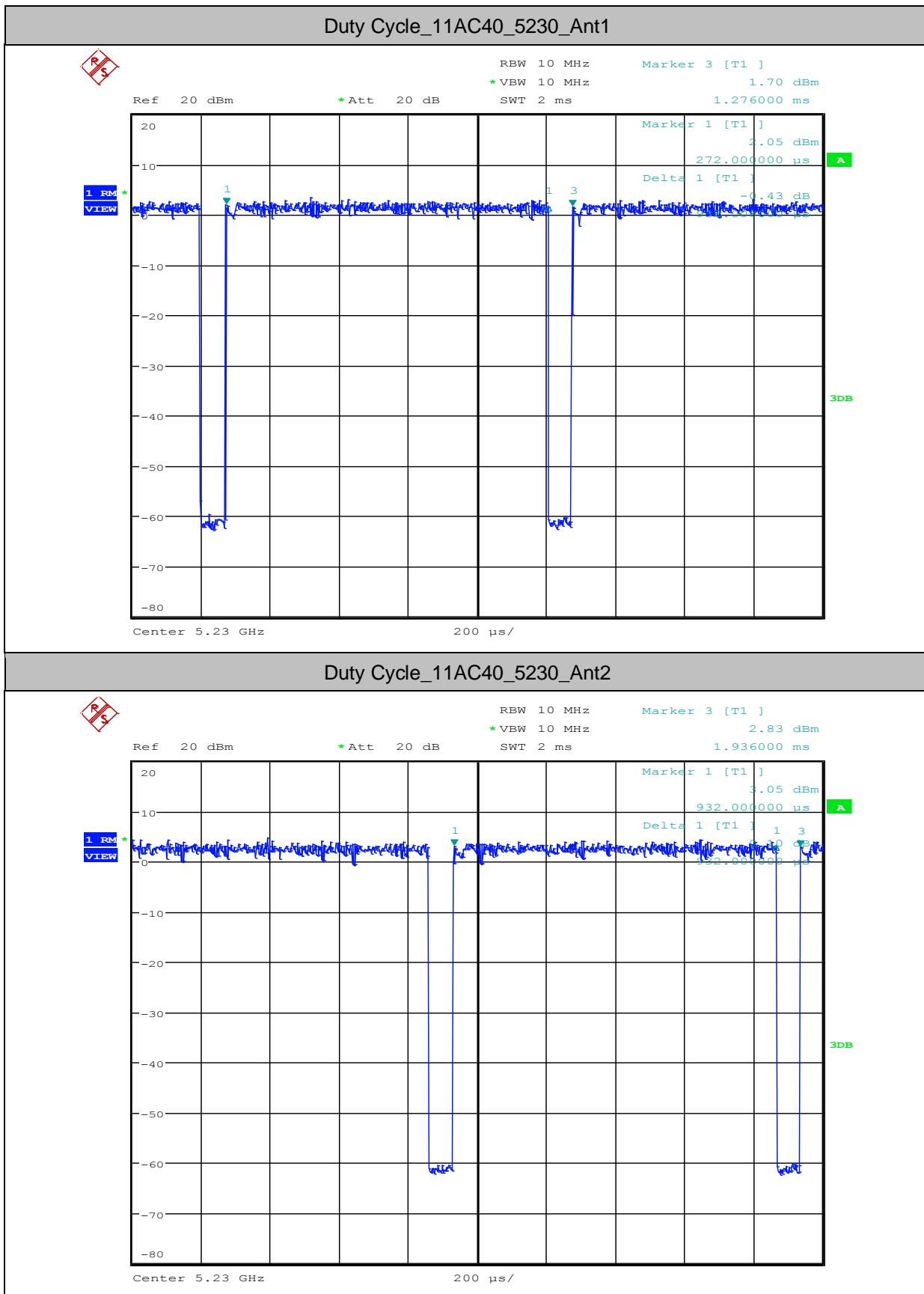
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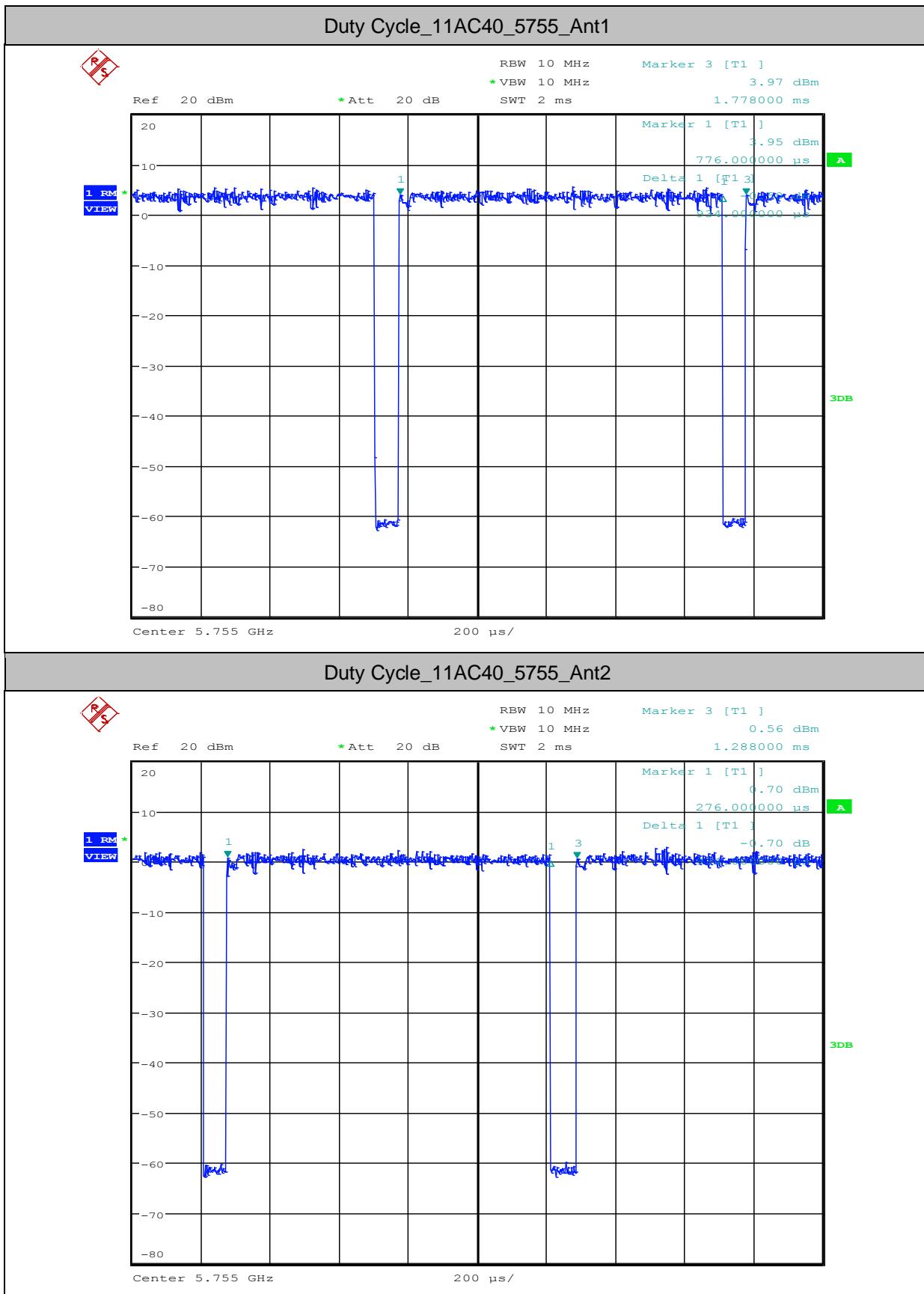


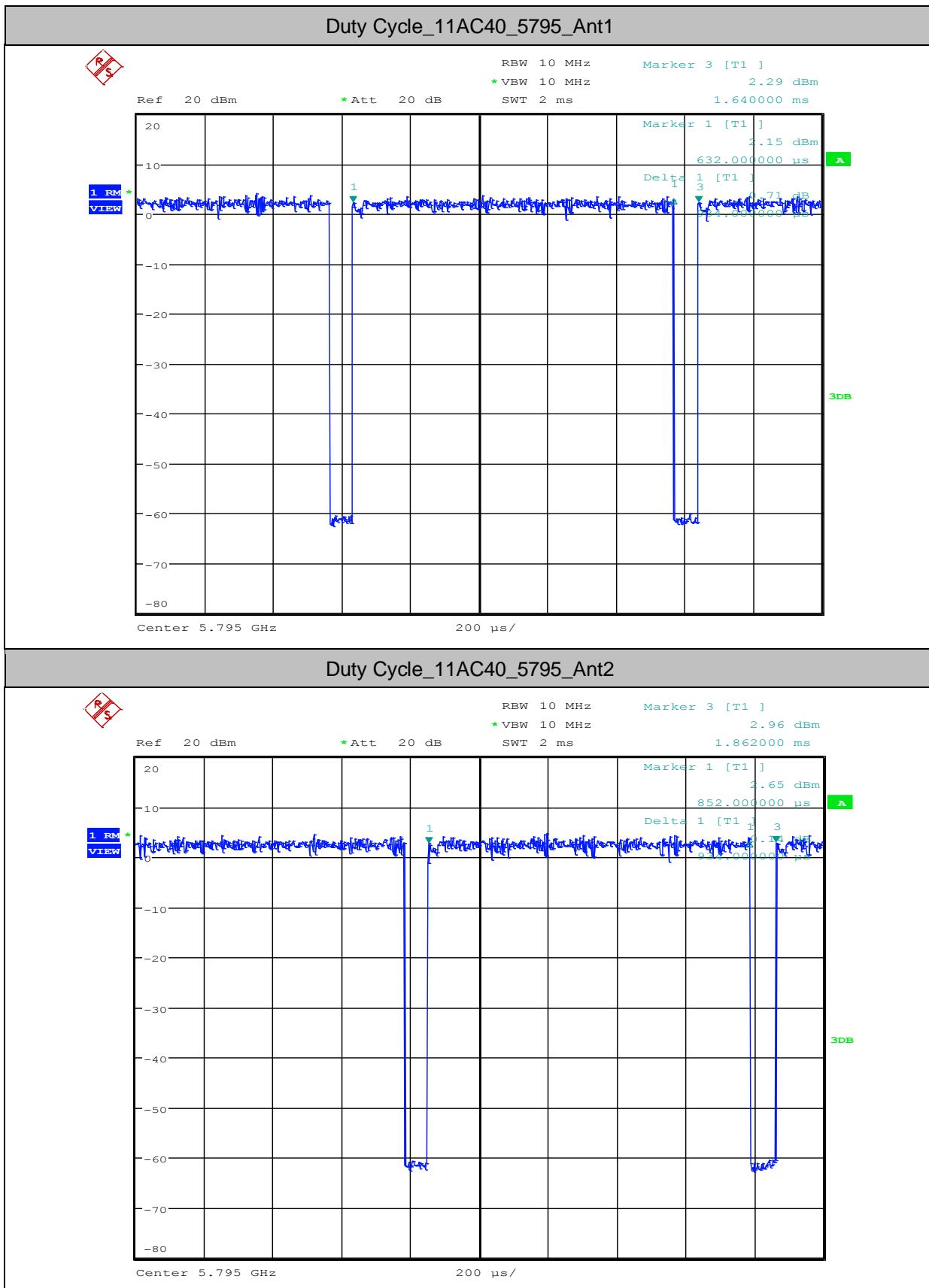
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