



Appendix A U-NII: Emission Bandwidth



1 Result Table for 26dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	19.9	PASS
	48	5240	ANT 1	20.14	PASS
	52	5260	ANT 1	19.84	PASS
	64	5320	ANT 1	20.08	PASS
	100	5500	ANT 1	19.88	PASS
	140	5700	ANT 1	19.92	PASS
	144	5720	ANT 1	26.84	PASS
11N20	36	5180	ANT 1	20.48	PASS
	48	5240	ANT 1	20.72	PASS
	52	5260	ANT 1	20.52	PASS
	64	5320	ANT 1	20.48	PASS
	100	5500	ANT 1	20.5	PASS
	140	5700	ANT 1	20.58	PASS
	144	5720	ANT 1	25.44	PASS
11N40	38	5190	ANT 1	39.66	PASS
	46	5230	ANT 1	39.42	PASS
	54	5270	ANT 1	39.5	PASS
	62	5310	ANT 1	39.6	PASS
	102	5510	ANT 1	39.58	PASS
	134	5670	ANT 1	39.68	PASS
	142	5710	ANT 1	39.44	PASS
11AC20	36	5180	ANT 1	20.48	PASS
	48	5240	ANT 1	20.46	PASS
	52	5260	ANT 1	20.44	PASS
	64	5320	ANT 1	20.48	PASS
	100	5500	ANT 1	20.36	PASS
	140	5700	ANT 1	20.44	PASS
	144	5720	ANT 1	20.5	PASS
11AC40	38	5190	ANT 1	39.56	PASS
	46	5230	ANT 1	39.7	PASS
	54	5270	ANT 1	39.52	PASS
	62	5310	ANT 1	39.66	PASS
	102	5510	ANT 1	39.54	PASS
	134	5670	ANT 1	39.58	PASS
	142	5710	ANT 1	39.54	PASS



11AC80	42	5210	ANT 1	81.12	PASS
	58	5290	ANT 1	80.96	PASS
	106	5530	ANT 1	81.12	PASS
	138	5690	ANT 1	81.01	PASS

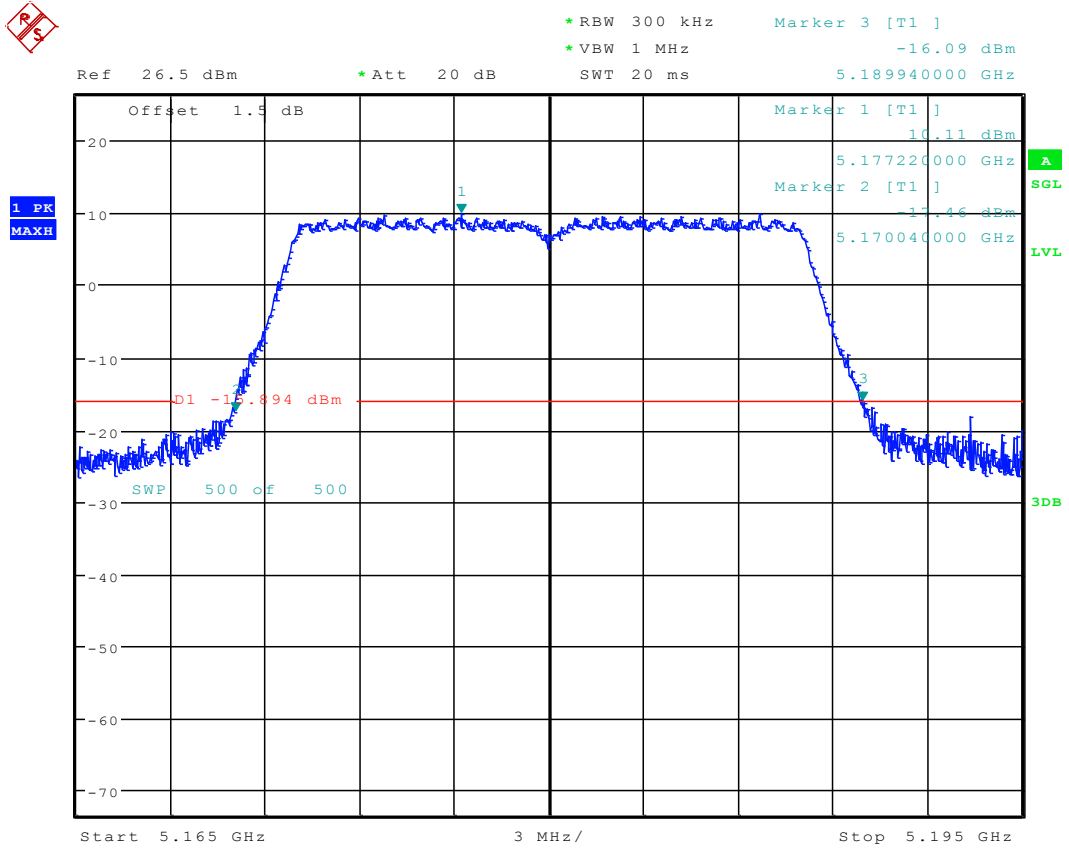


2 Result Table for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	16.4	PASS
	165	5825	ANT 1	16.4	PASS
11N20	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11N40	151	5755	ANT 1	35.7	PASS
	159	5795	ANT 1	35.38	PASS
11AC20	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11AC40	151	5755	ANT 1	35.68	PASS
	159	5795	ANT 1	35.7	PASS
11AC80	155	5775	ANT 1	75.2	PASS

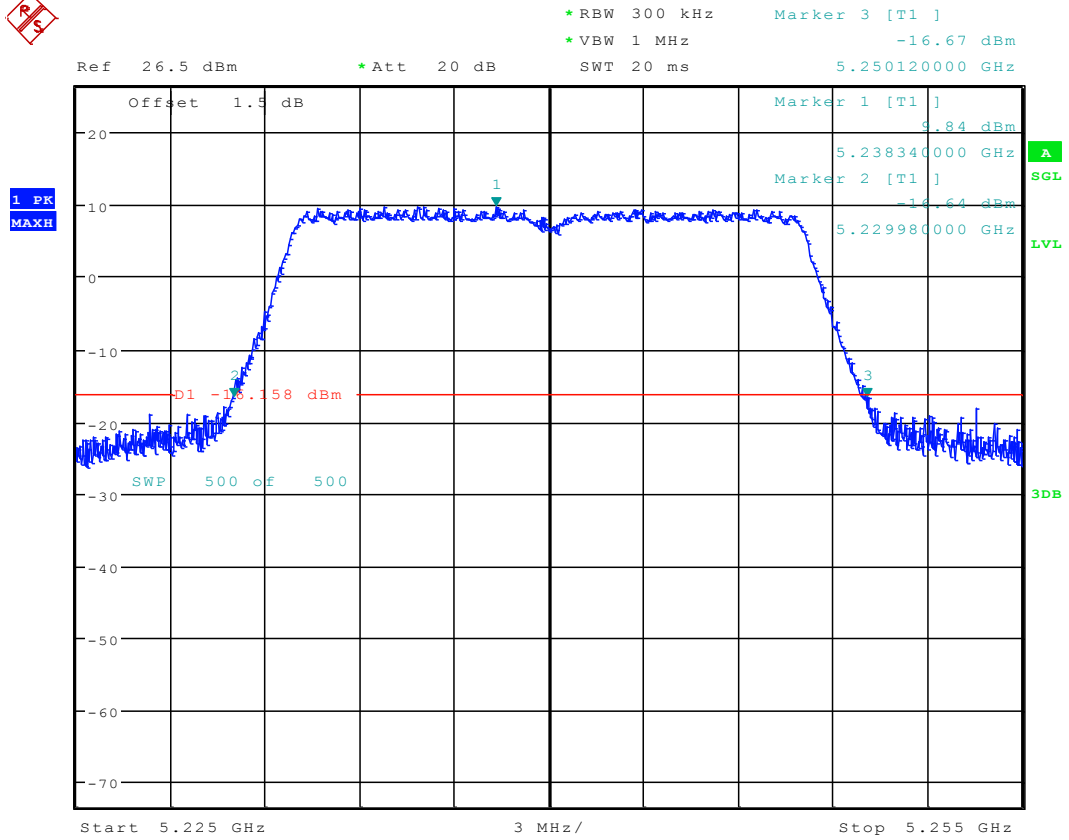
3 Test Plot for 26dB Emission Bandwidth

3.1 11A20_36 ANT 1



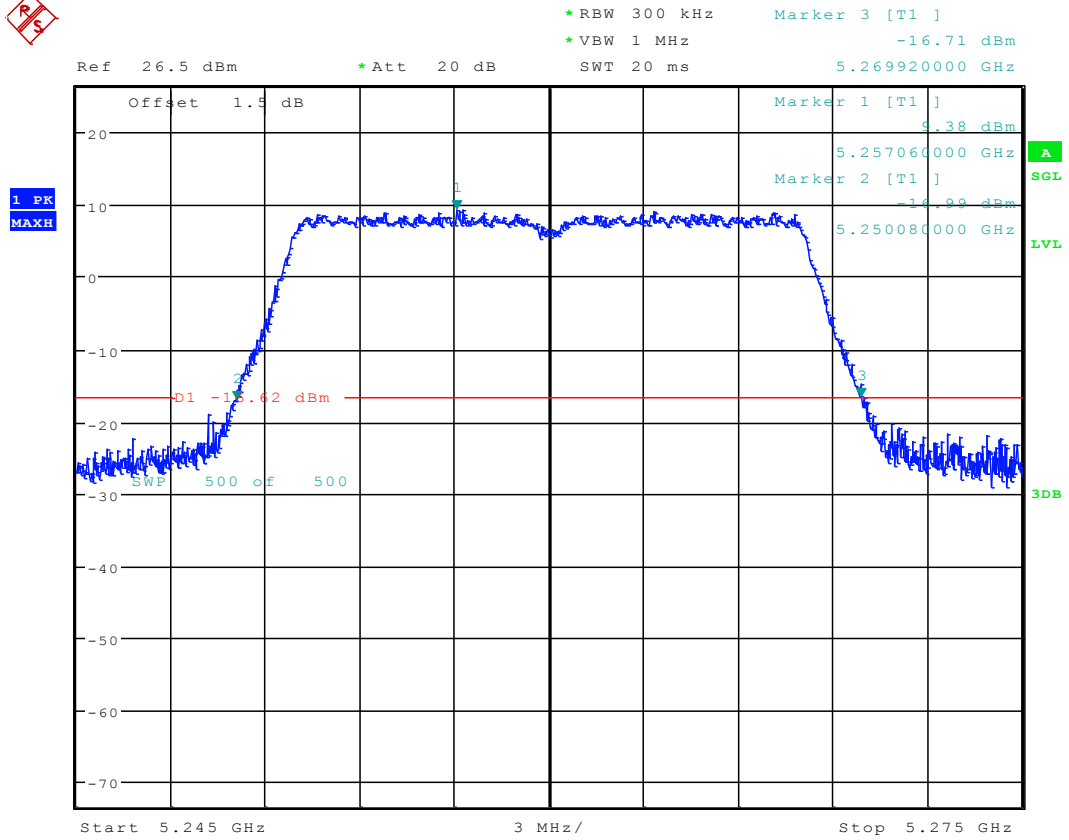
Date: 11.DEC.2017 09:42:19

3.2 11A20_48 ANT 1



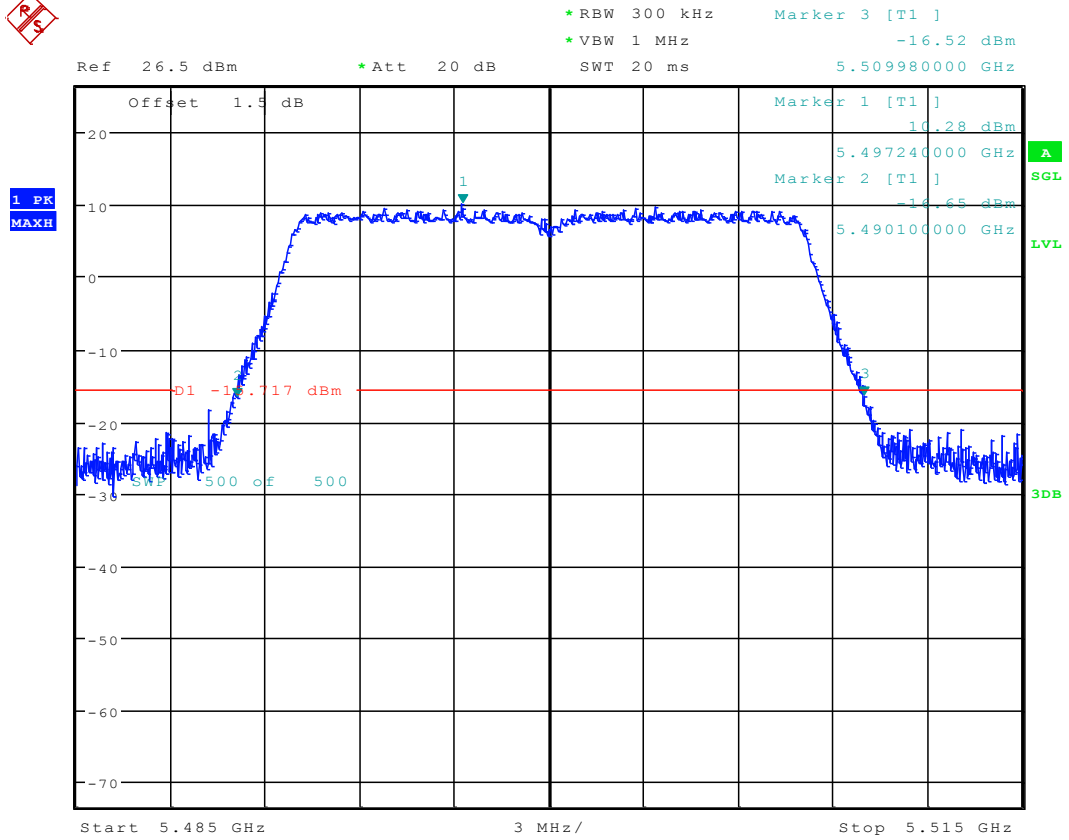
Date: 11.DEC.2017 09:50:28

3.3 11A20_52 ANT 1



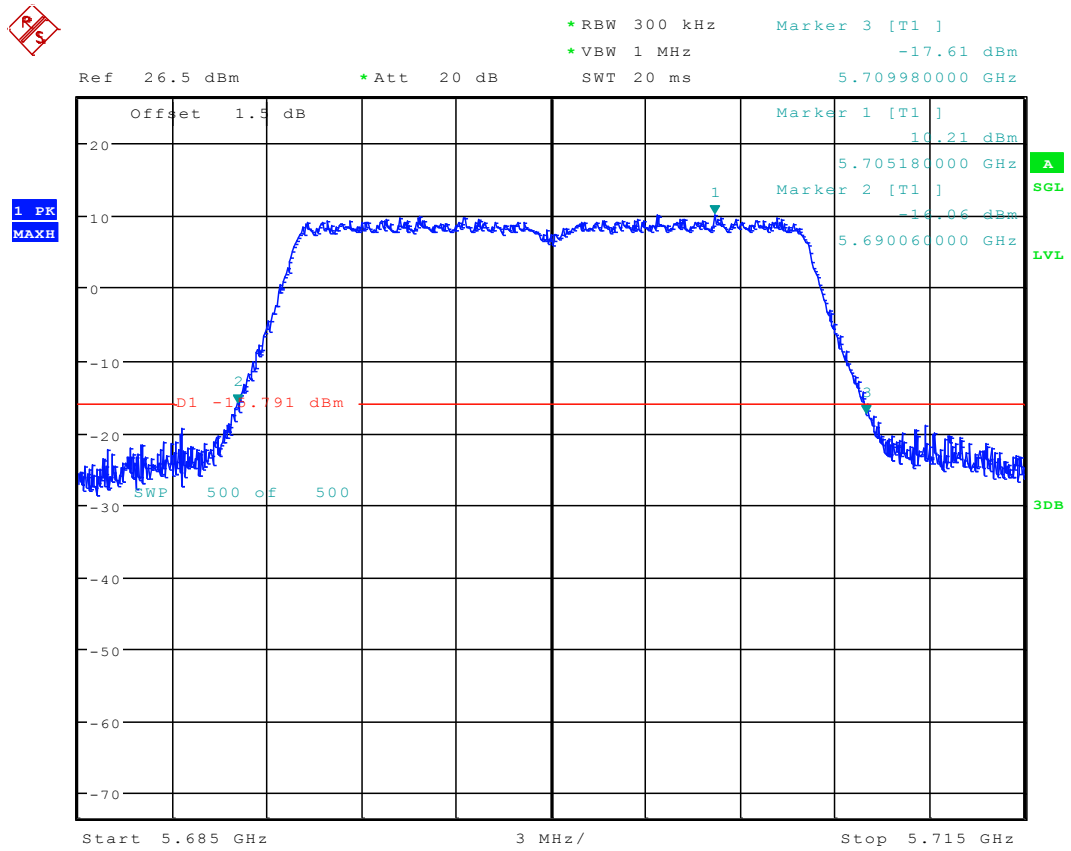
Date: 11.DEC.2017 09:55:42

3.5 11A20_100 ANT 1



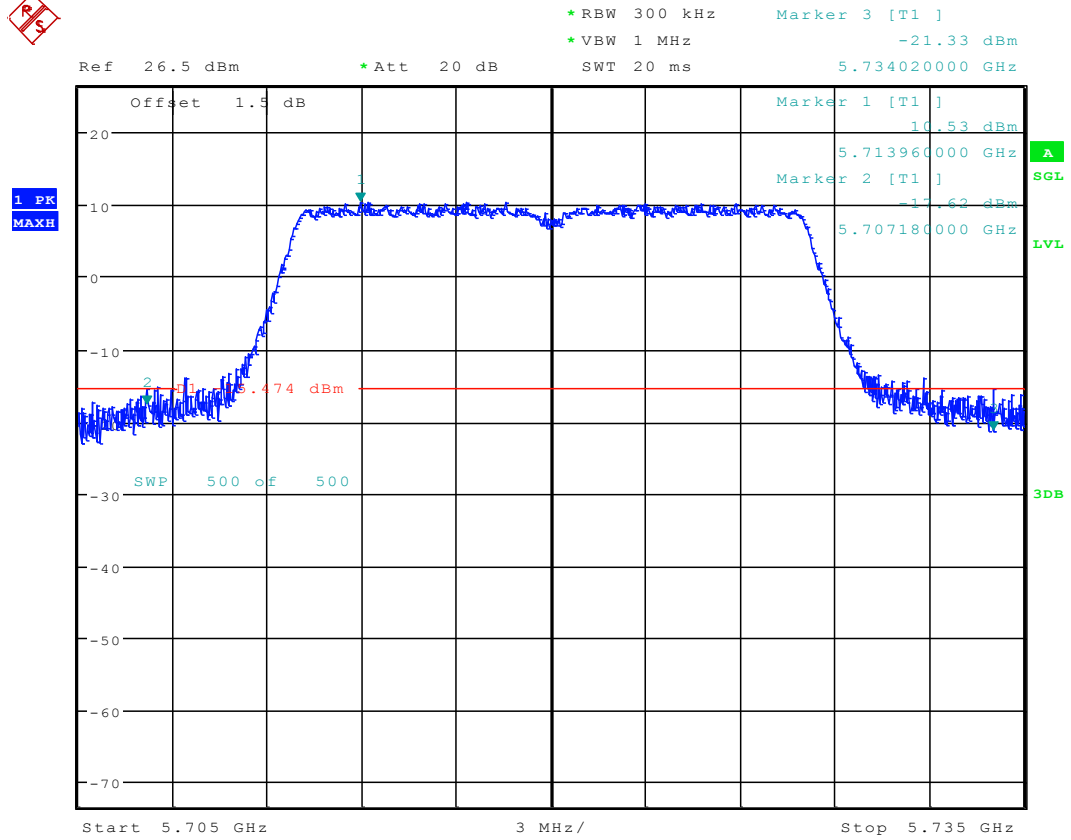
Date: 11.DEC.2017 10:12:31

3.6 11A20_140 ANT 1



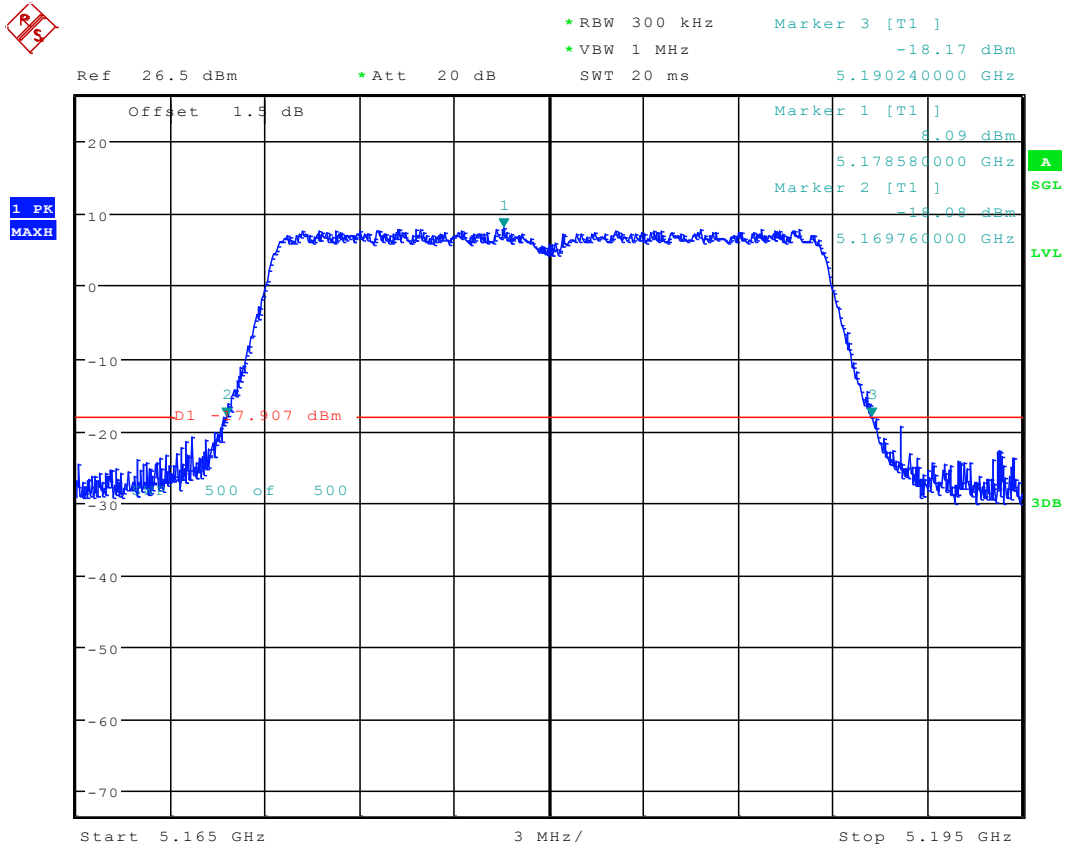
Date: 11.DEC.2017 10:20:40

3.7 11A20_144 ANT 1



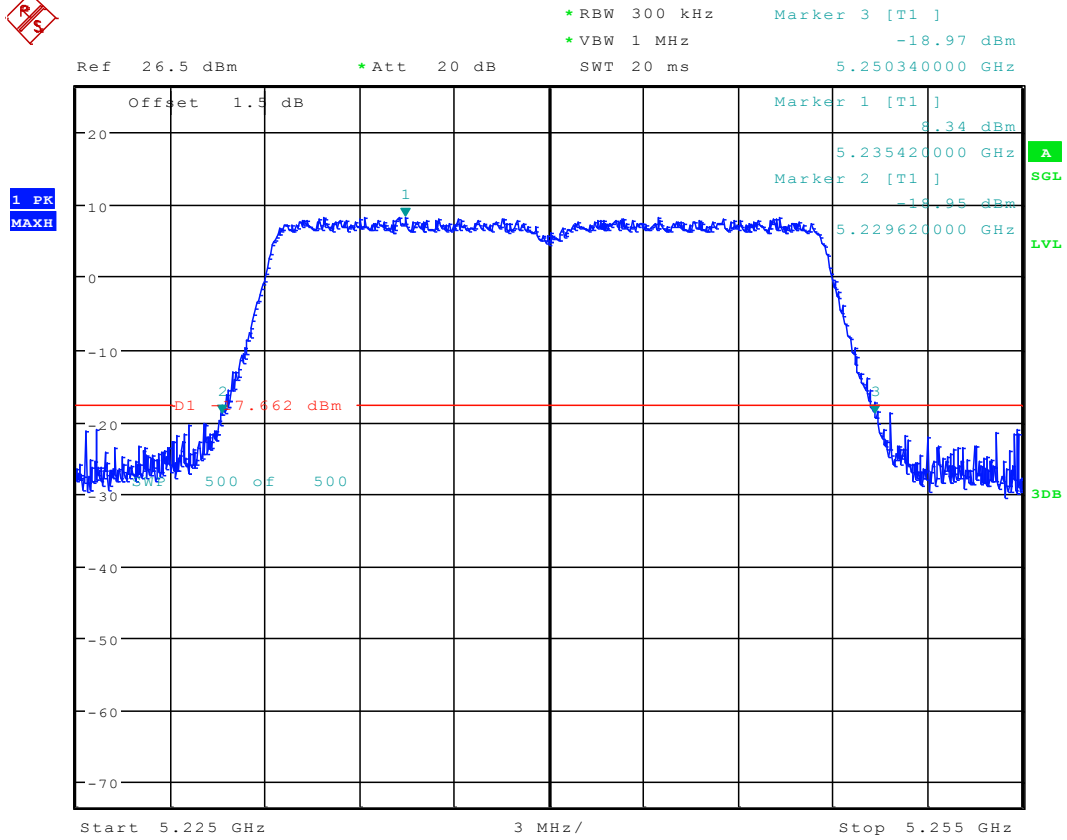
Date: 23.DEC.2017 15:30:48

3.8 11N20_36 ANT 1



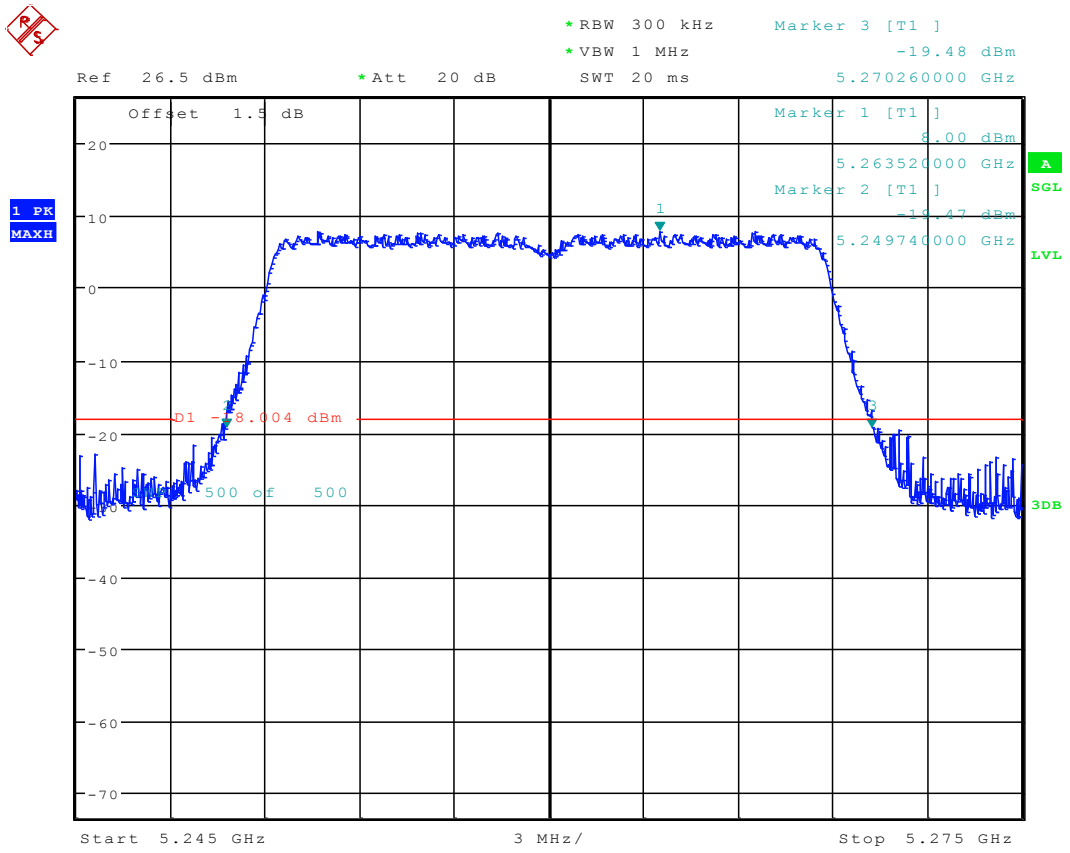
Date: 11.DEC.2017 10:41:37

3.9 11N20_48 ANT 1



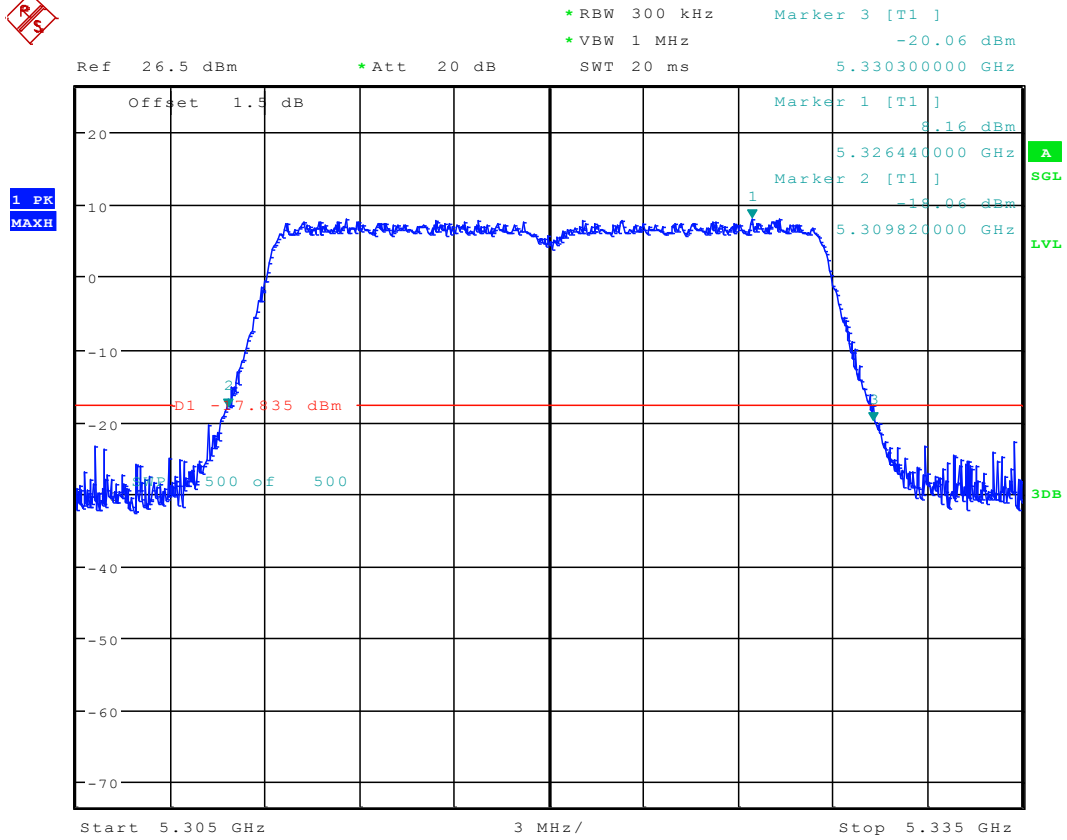
Date: 11.DEC.2017 10:51:51

3.10 11N20_52 ANT 1



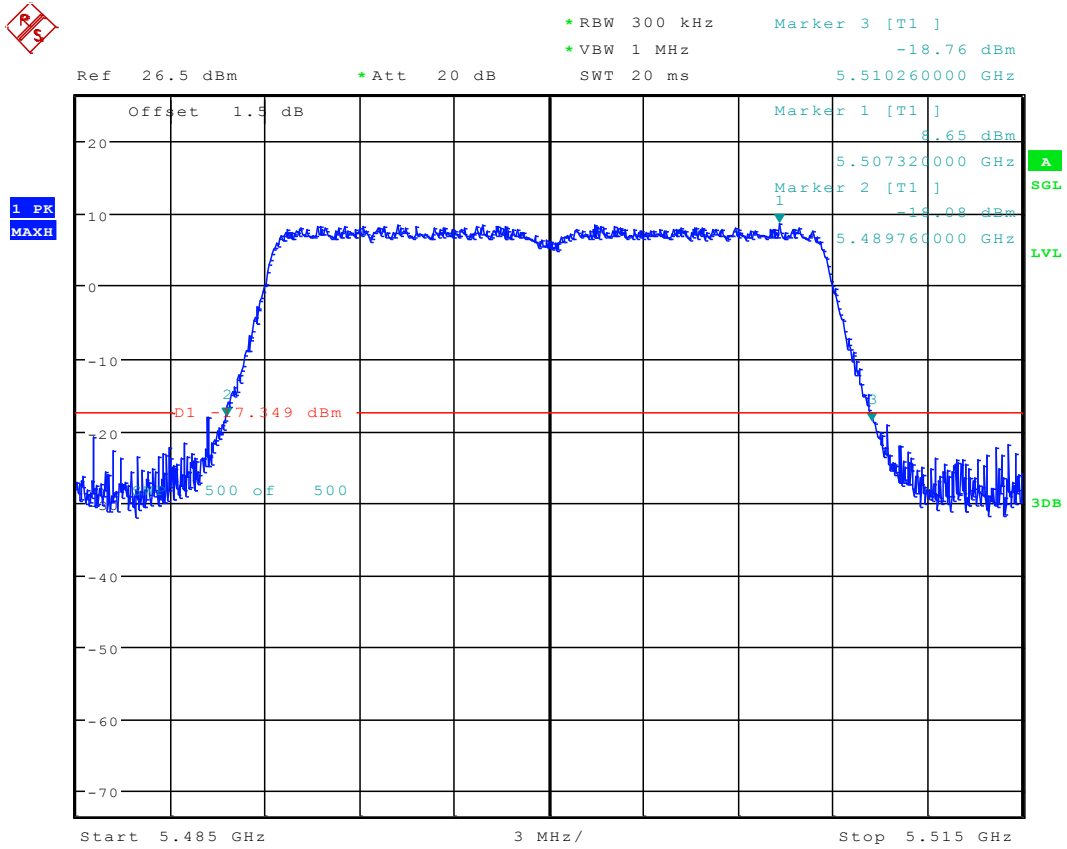
Date: 11.DEC.2017 10:57:22

3.11 11N20_64 ANT 1



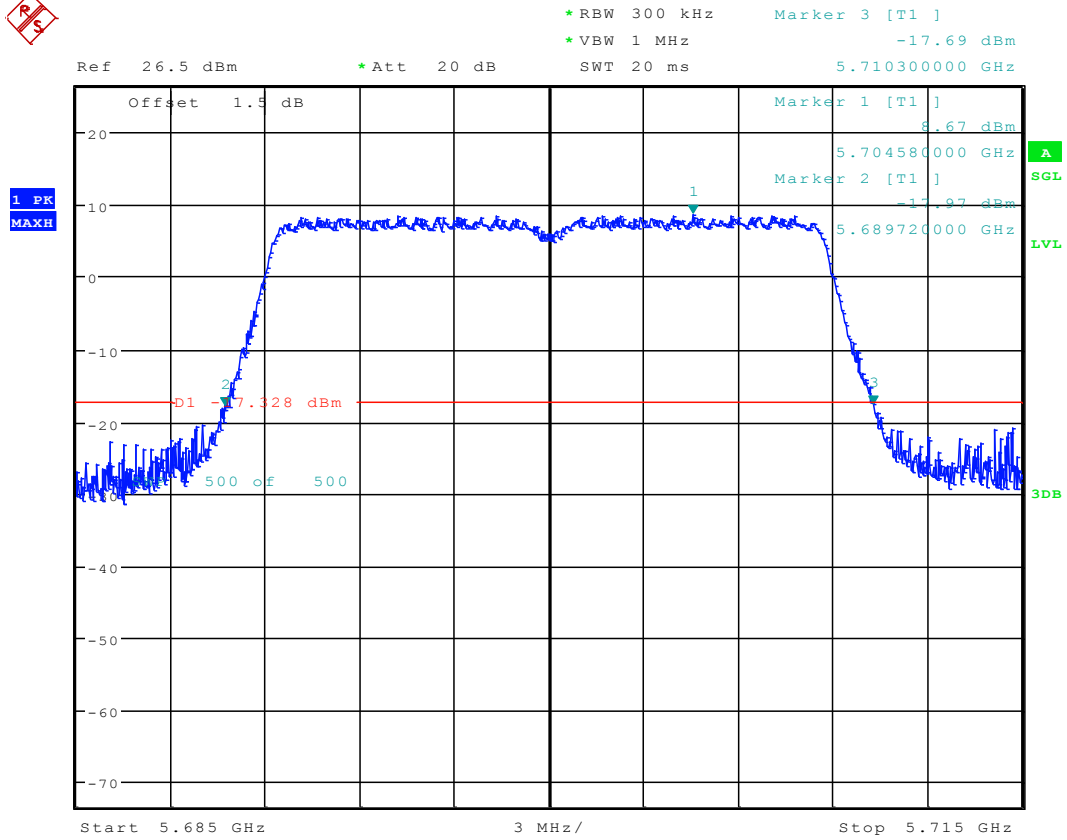
Date: 11.DEC.2017 11:02:21

3.12 11N20_100 ANT 1



Date: 11.DEC.2017 11:07:37

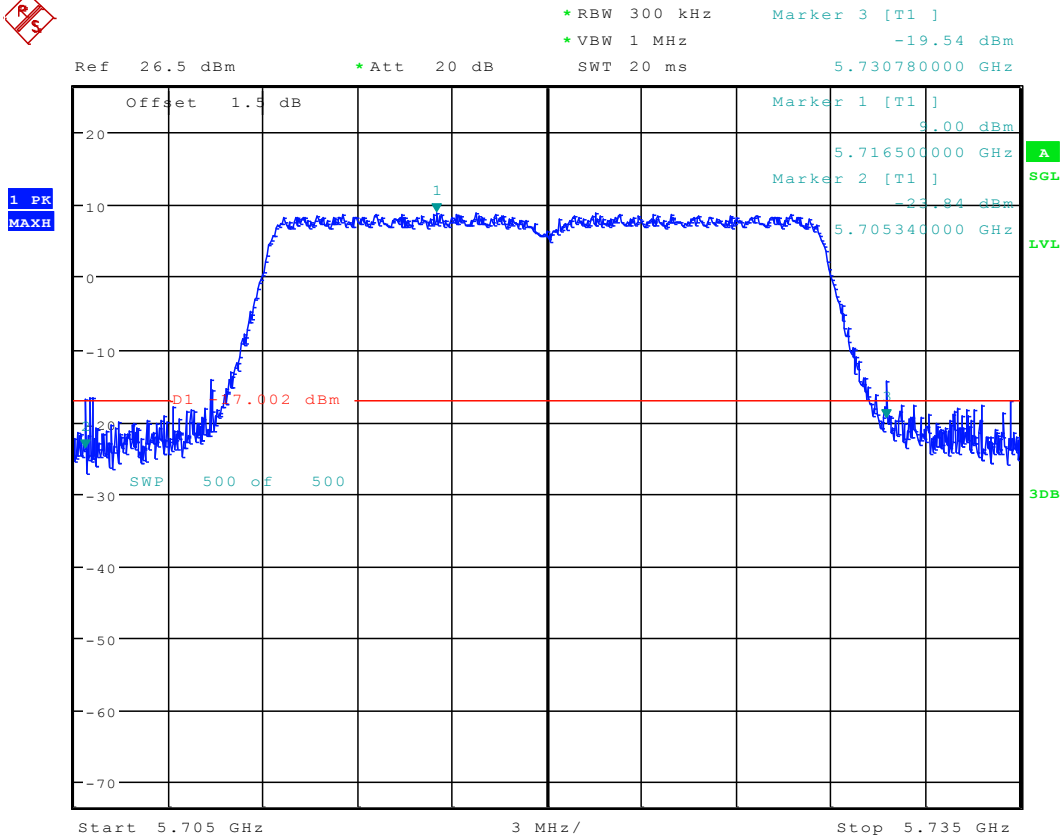
3.13 11N20_140 ANT 1



Date: 11.DEC.2017 12:49:01

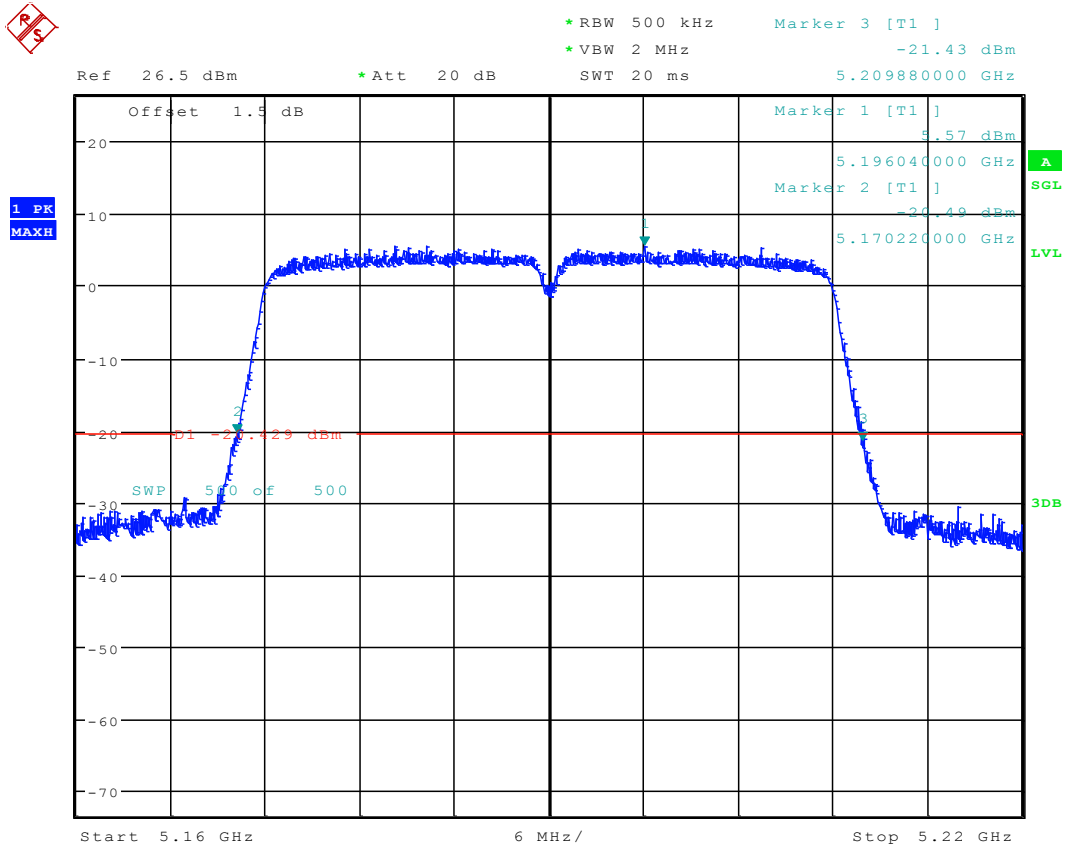


3.14 11N20_144 ANT 1



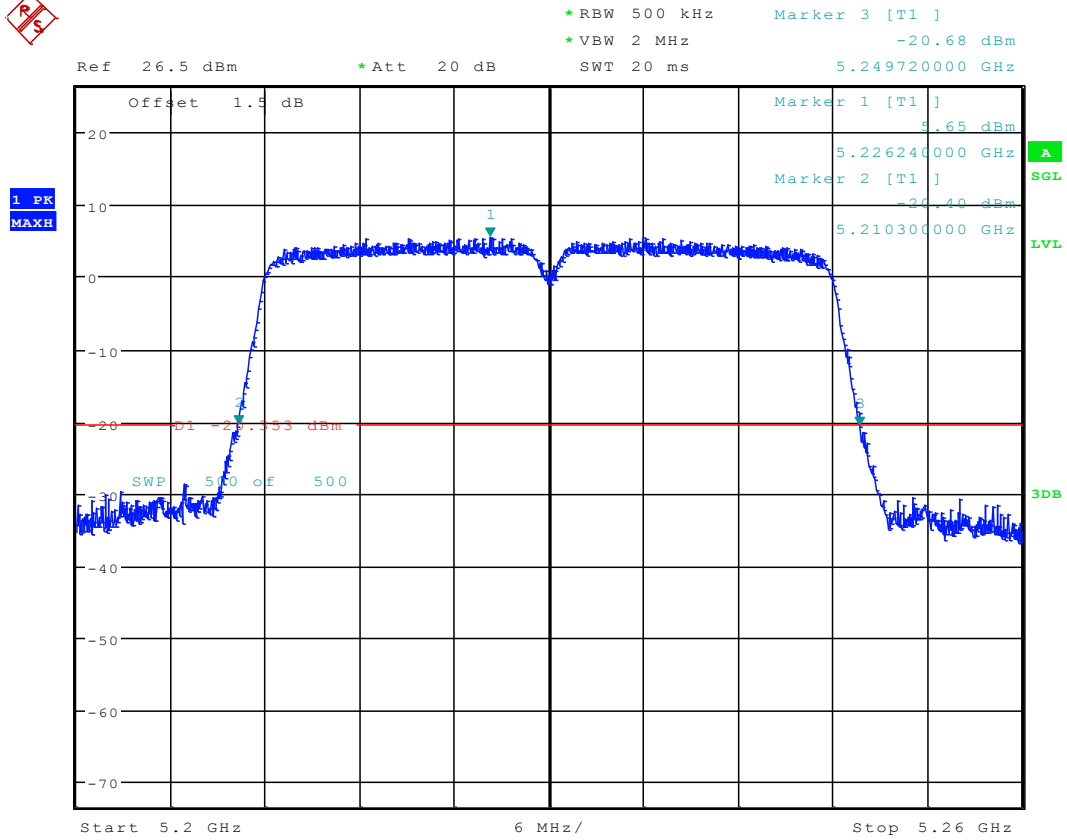
Date: 23.DEC.2017 15:37:41

3.15 11N40_38 ANT 1



Date: 11.DEC.2017 13:14:13

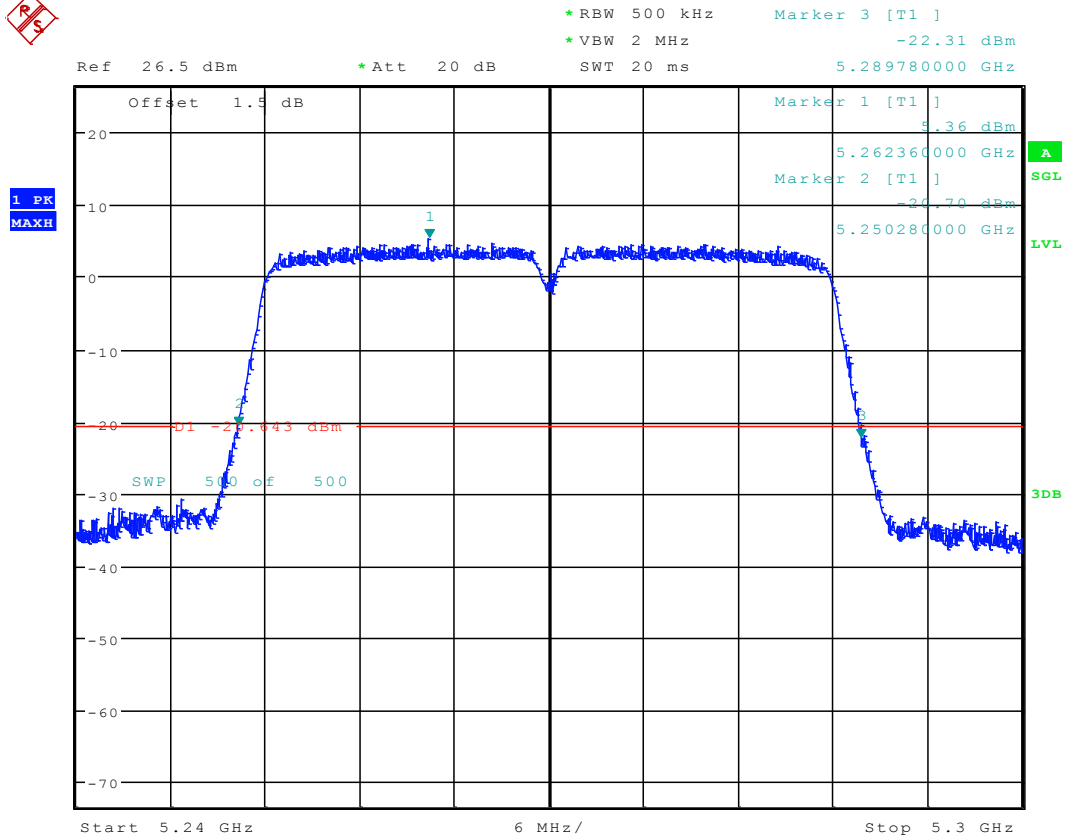
3.16 11N40_46 ANT 1



Date: 11.DEC.2017 13:22:48

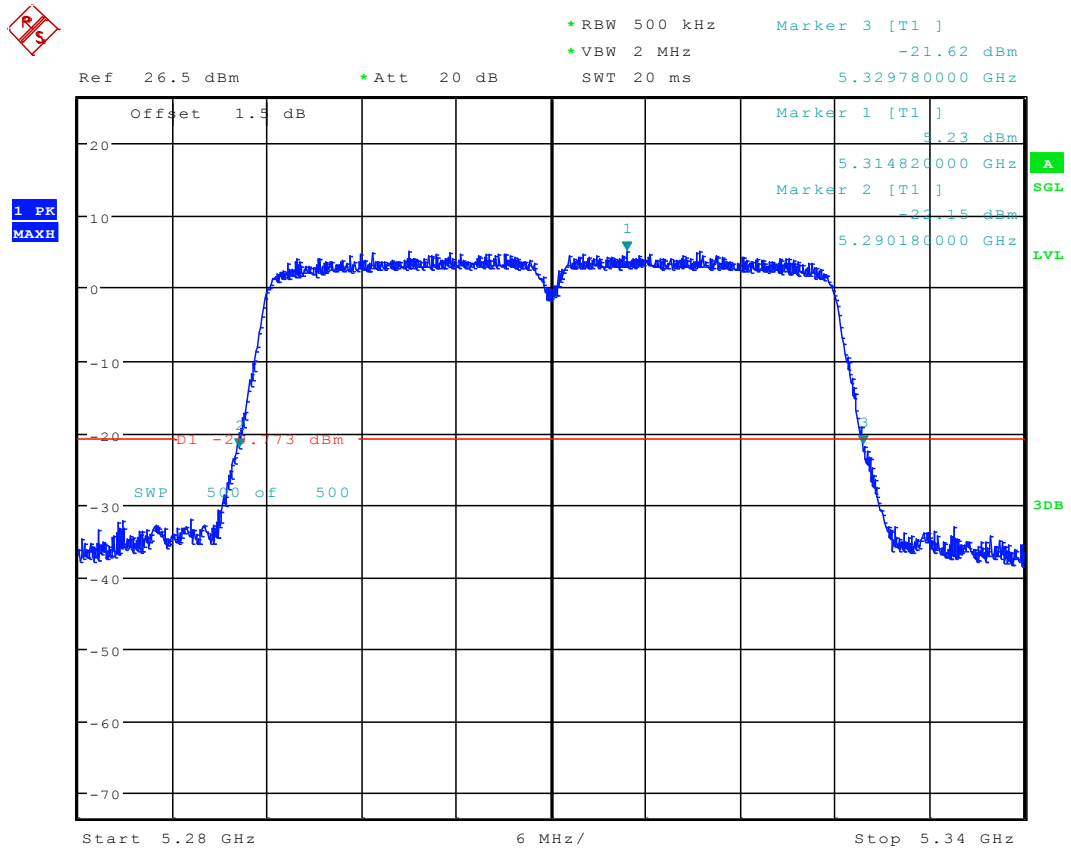


3.17 11N40_54 ANT 1



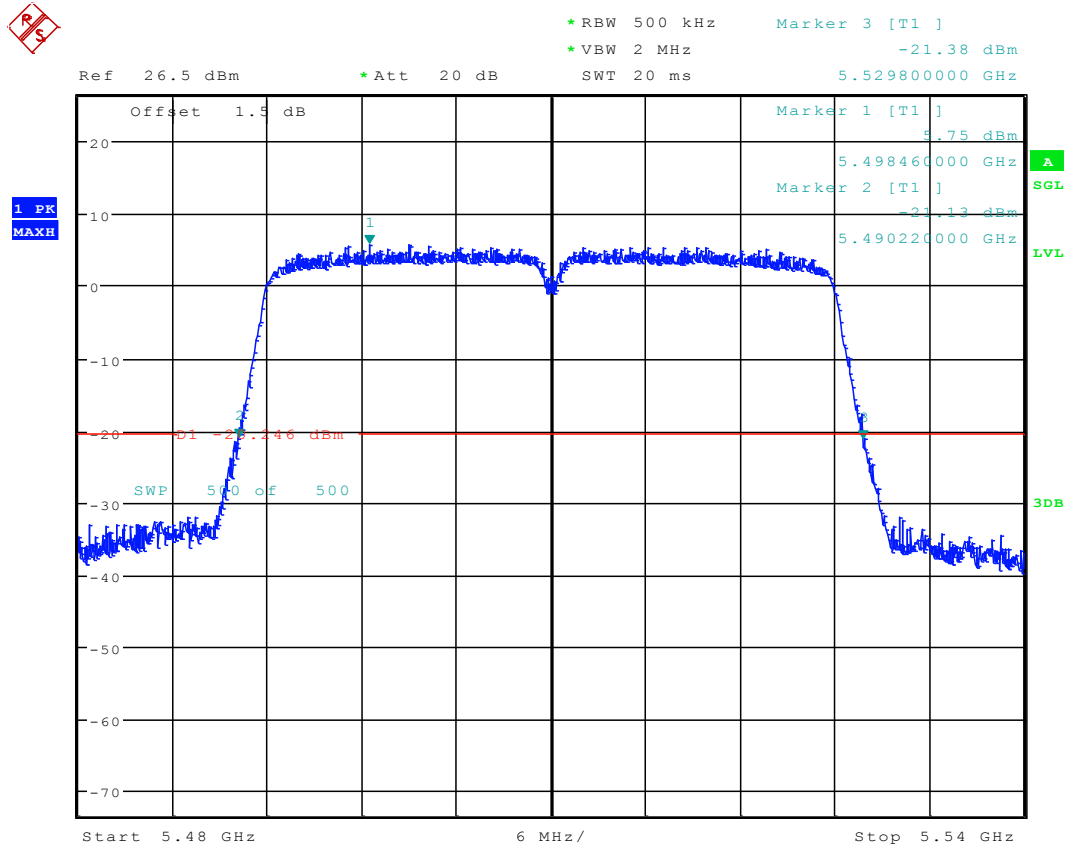
Date: 11.DEC.2017 13:30:59

3.18 11N40_62 ANT 1



Date: 11.DEC.2017 13:36:36

3.19 11N40_102 ANT 1



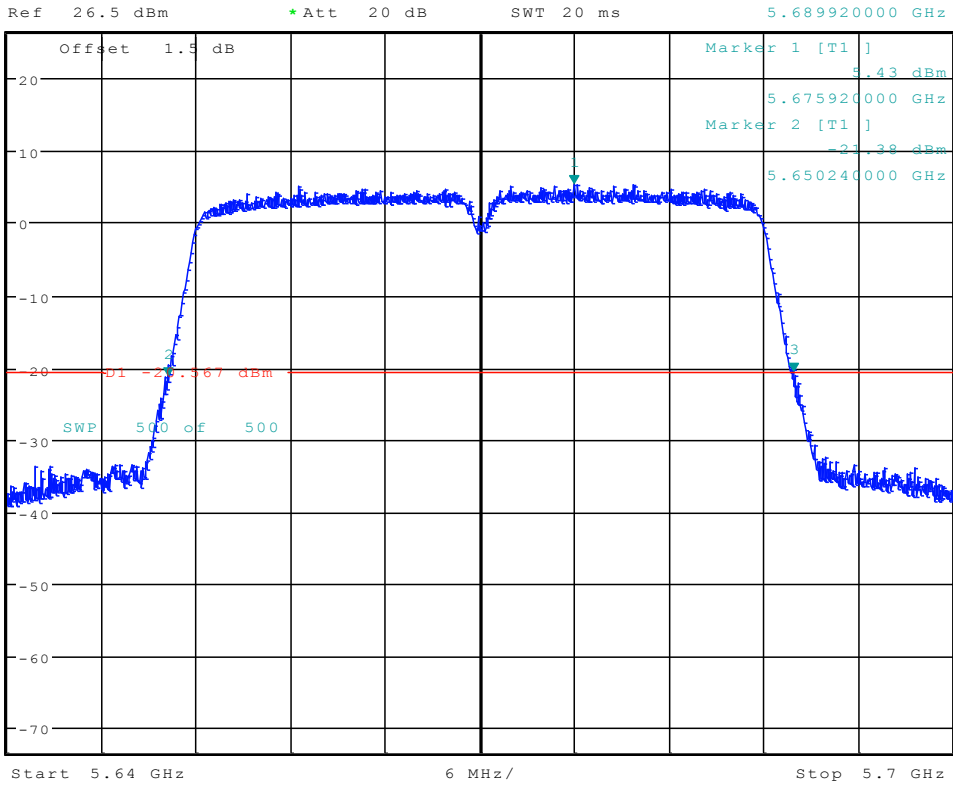
Date: 11.DEC.2017 13:42:14



3.20 11N40_134 ANT 1

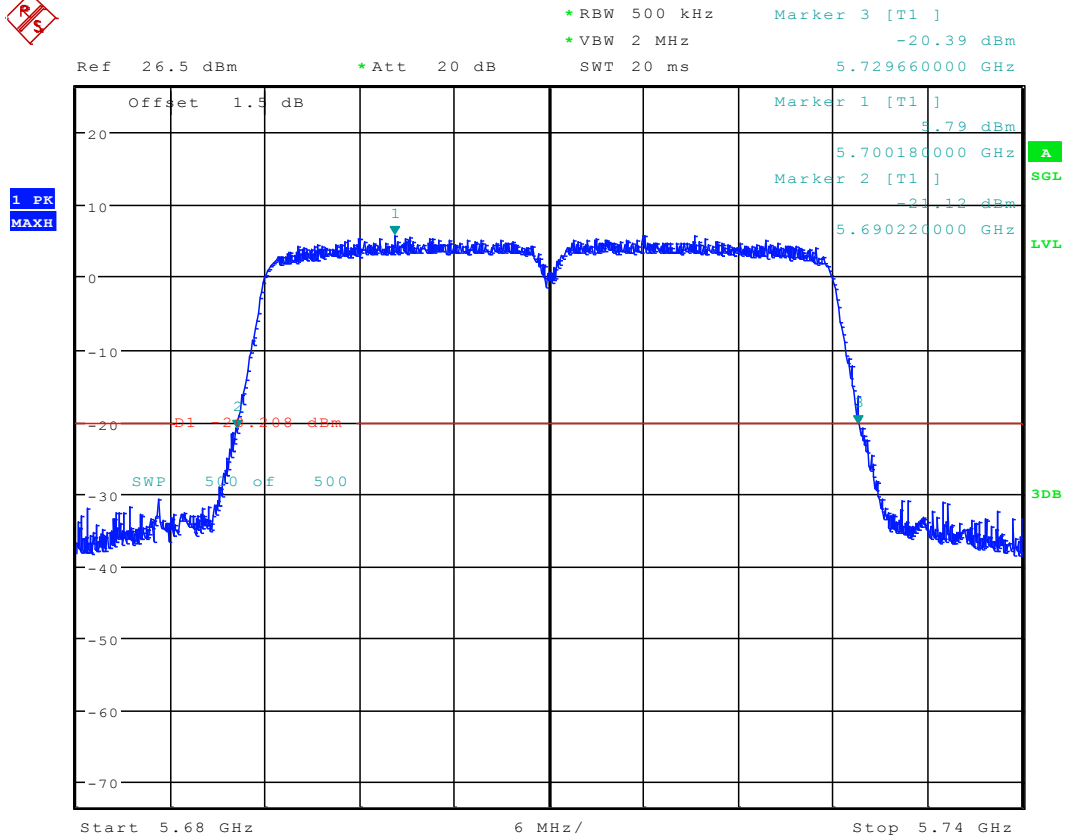


*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -20.67 dBm
 SWT 20 ms 5.689920000 GHz



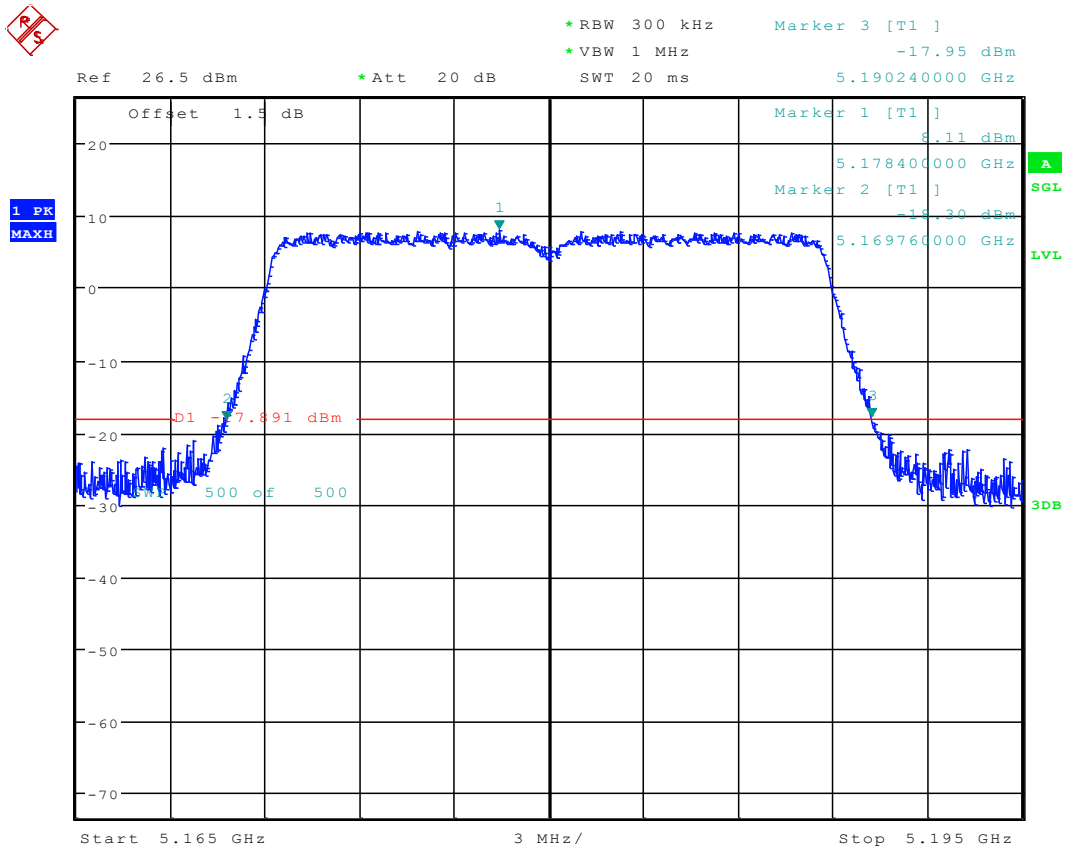
Date: 11.DEC.2017 13:46:22

3.21 11N40_142 ANT 1



Date: 24.DEC.2017 13:56:16

3.22 11AC20_36 ANT 1

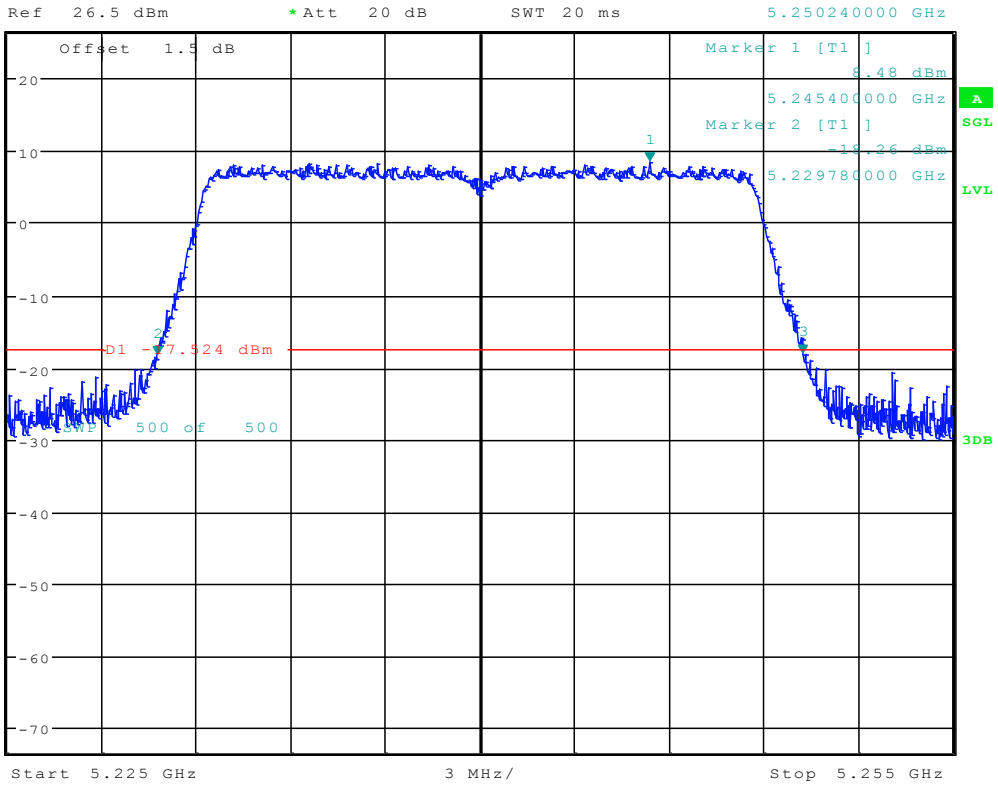


Date: 11.DEC.2017 14:05:21

3.23 11AC20_48 ANT 1

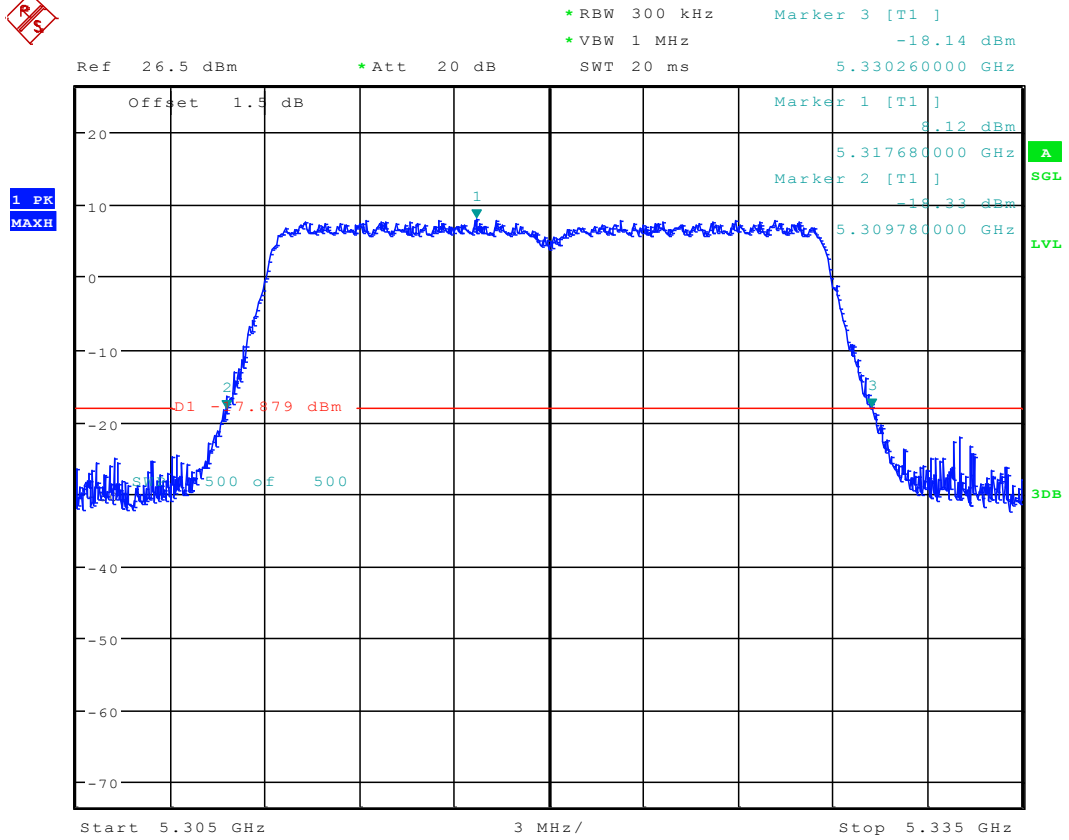


*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -18.16 dBm
 SWT 20 ms 5.250240000 GHz



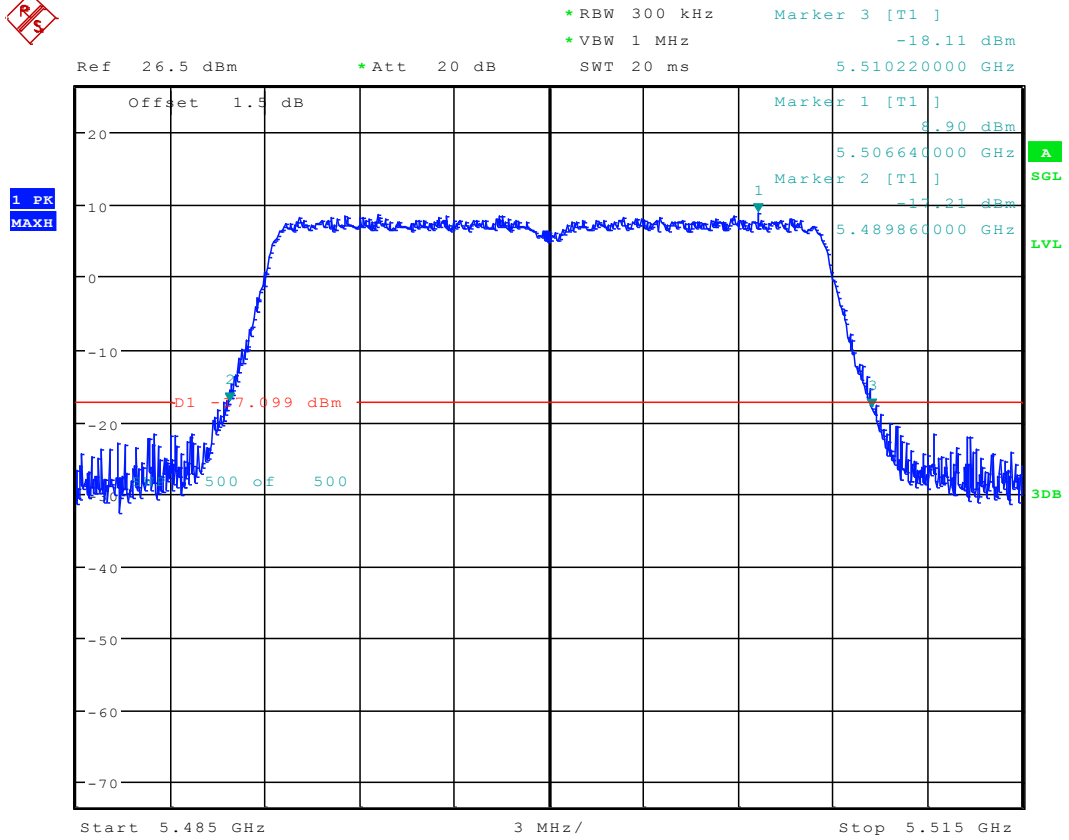
Date: 11.DEC.2017 14:09:58

3.25 11AC20_64 ANT 1



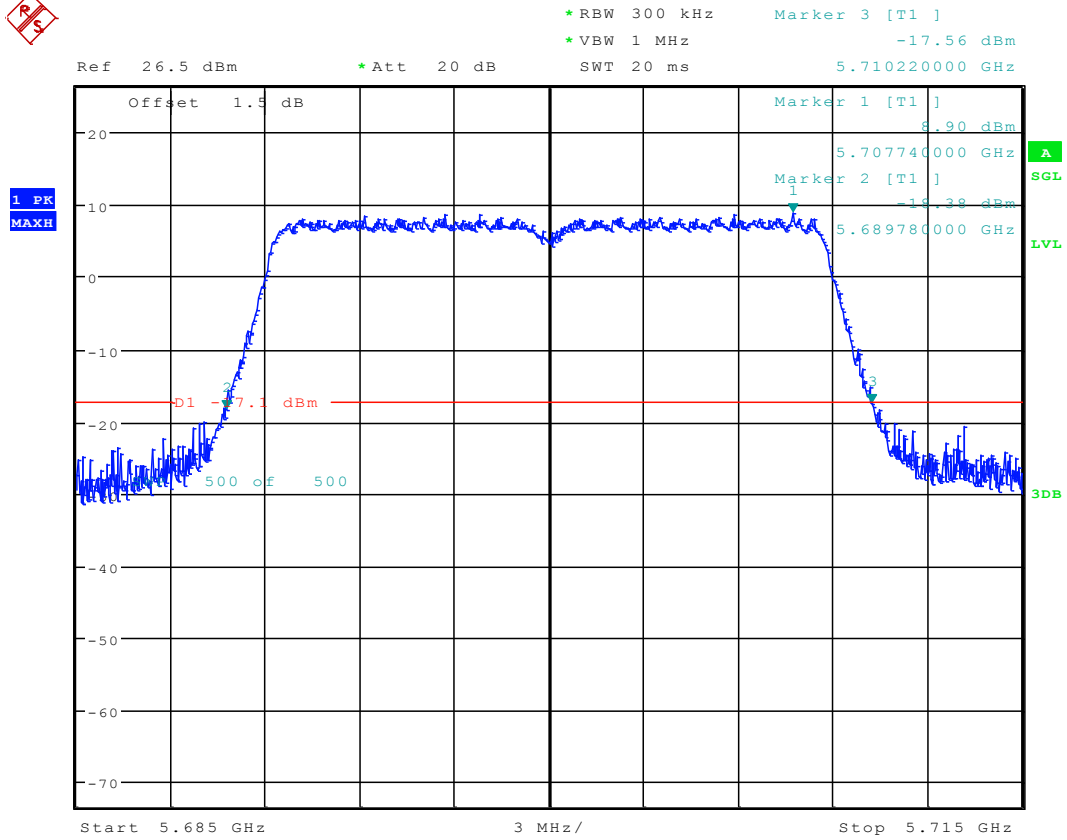
Date: 11.DEC.2017 14:19:06

3.26 11AC20_100 ANT 1



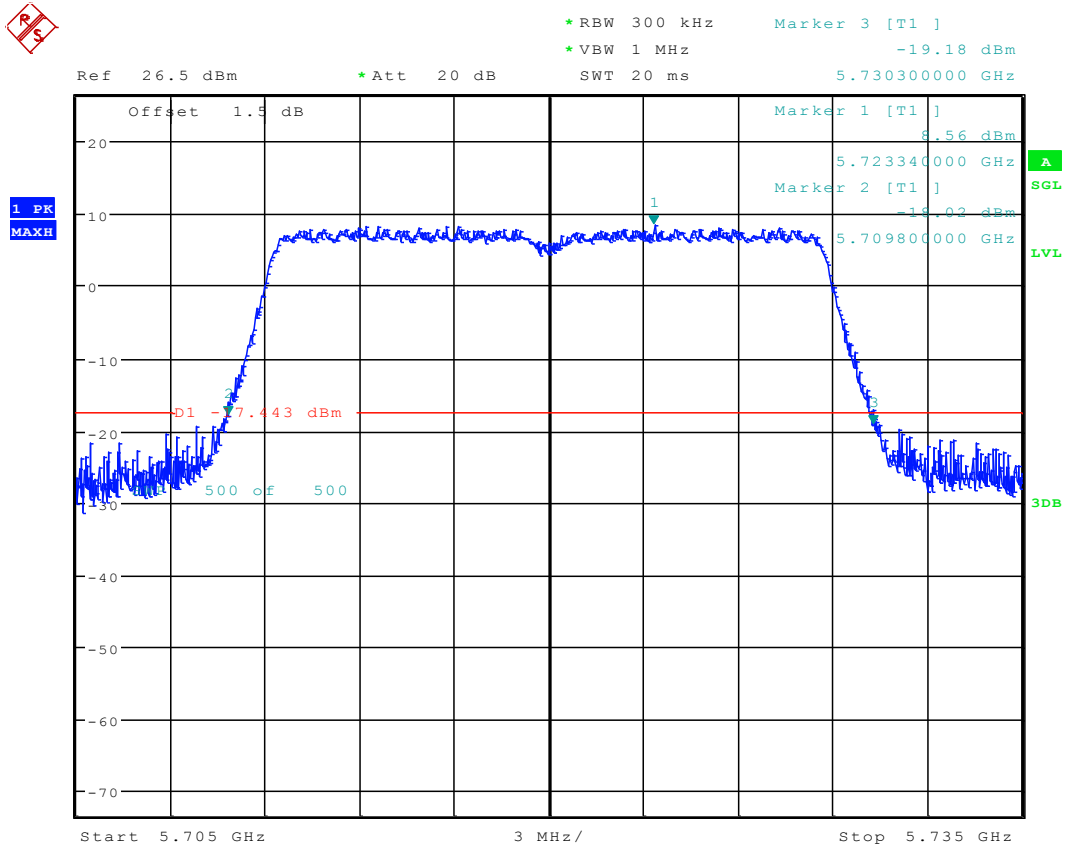
Date: 11.DEC.2017 14:23:31

3.27 11AC20_140 ANT 1



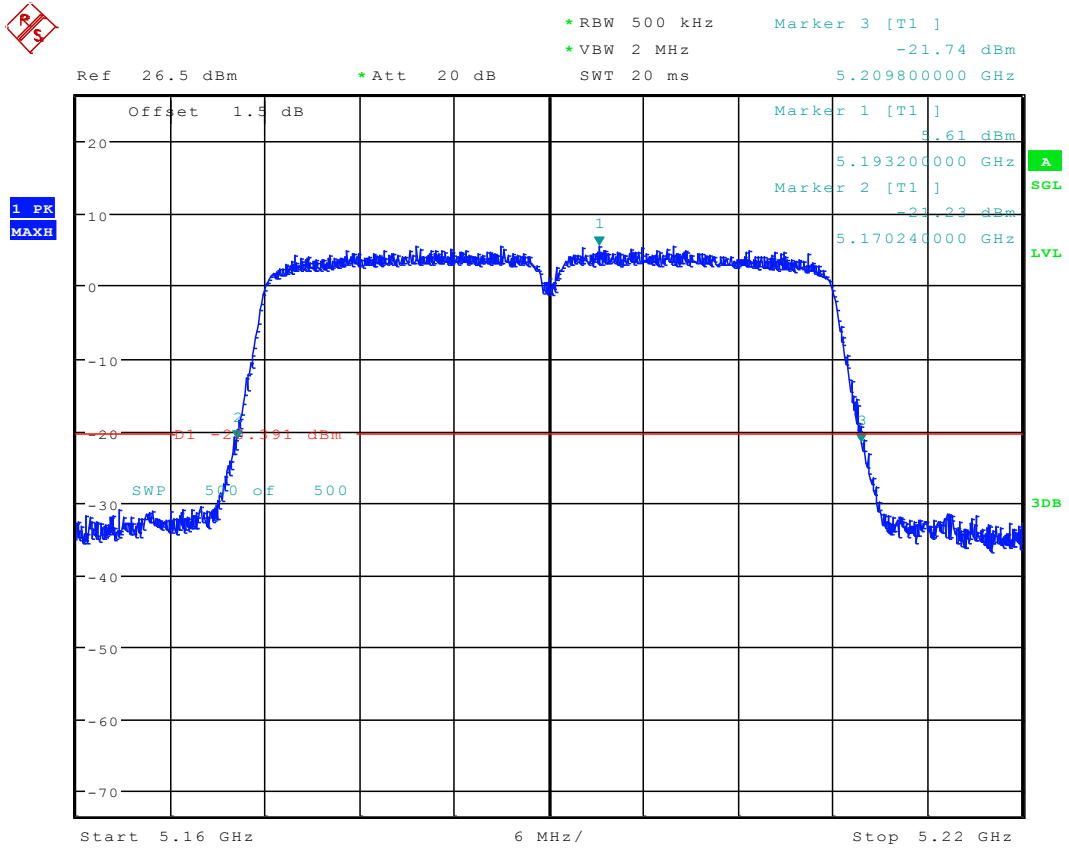
Date: 11.DEC.2017 14:27:48

3.28 11AC20_144 ANT 1



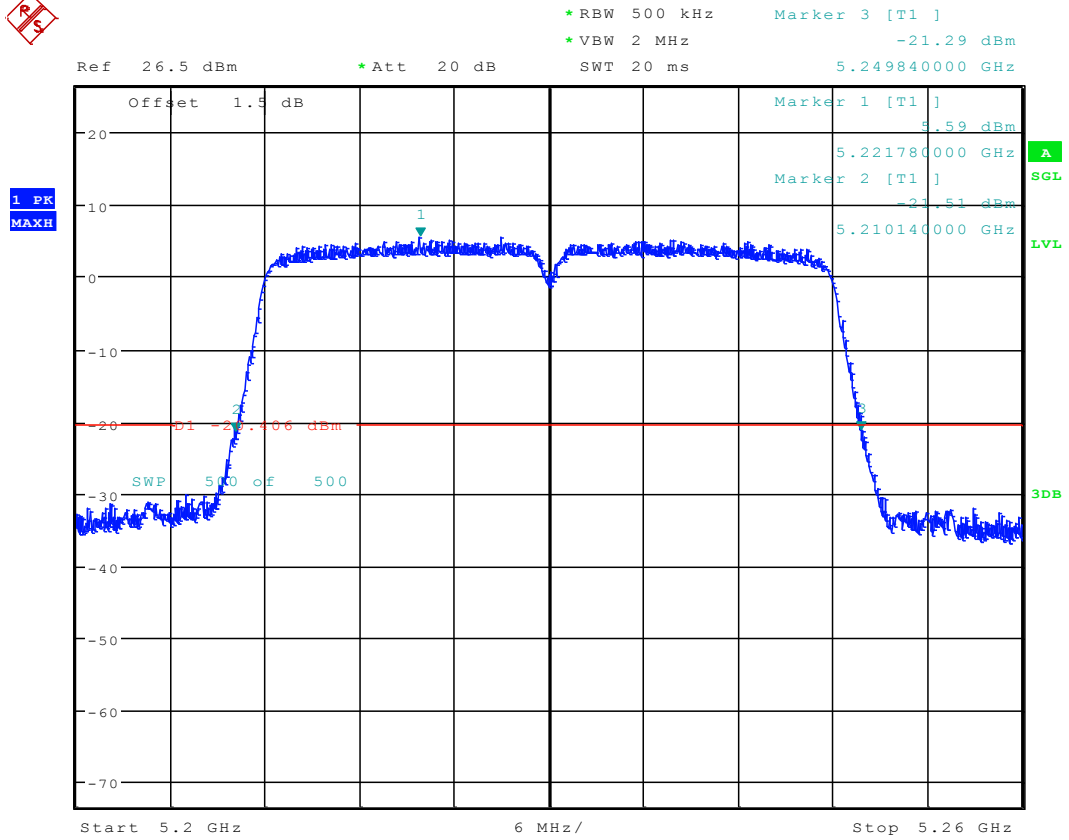
Date: 24.DEC.2017 14:03:12

3.29 11AC40_38 ANT 1



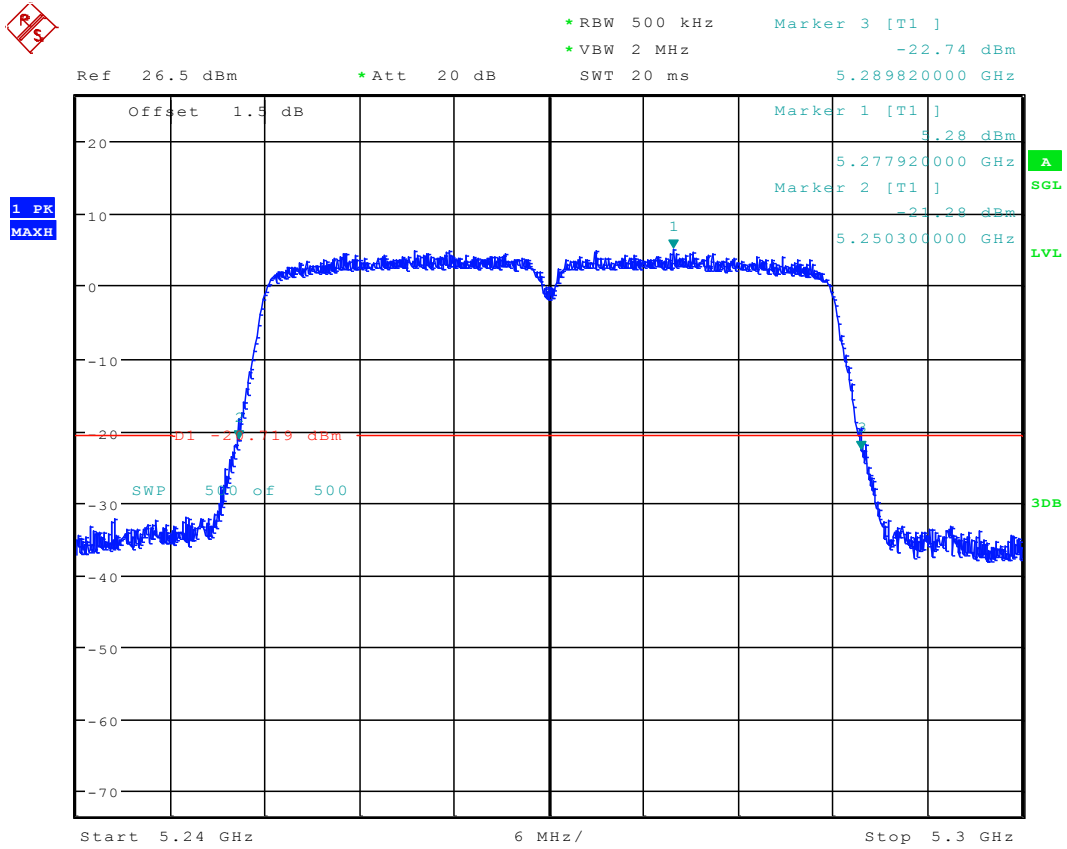
Date: 11.DEC.2017 14:44:52

3.30 11AC40_46 ANT 1



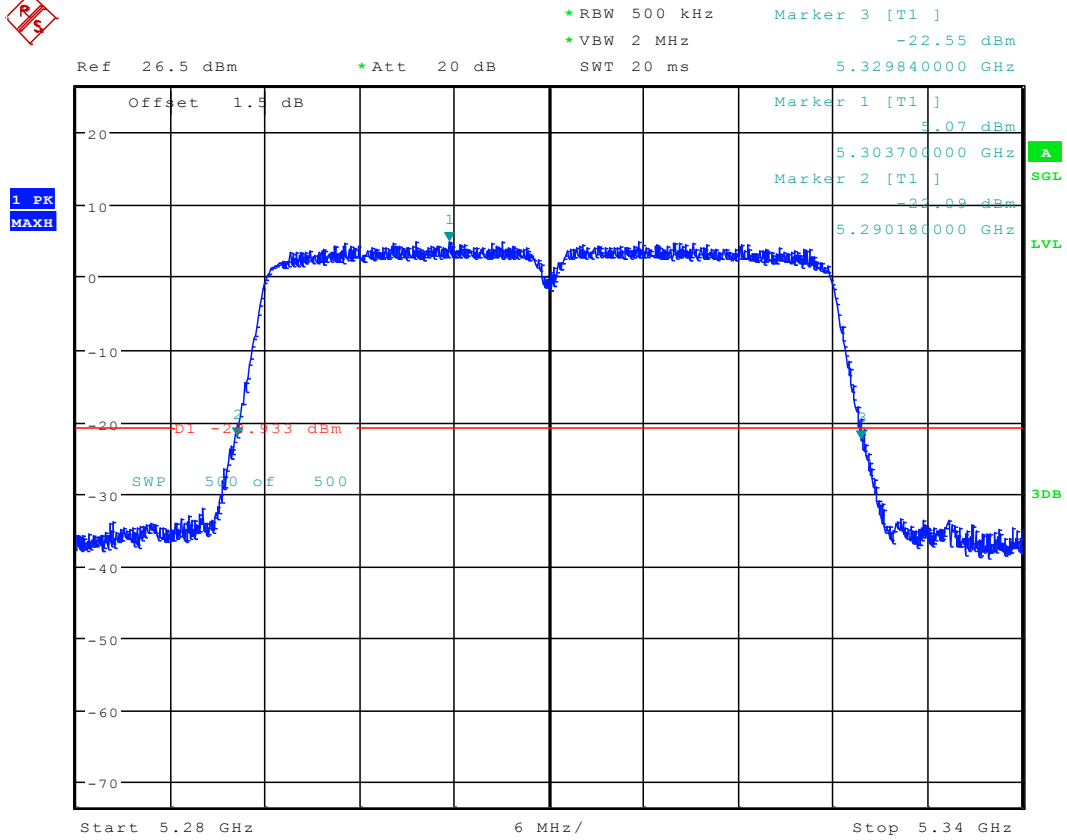
Date: 11.DEC.2017 14:50:15

3.31 11AC40_54 ANT 1



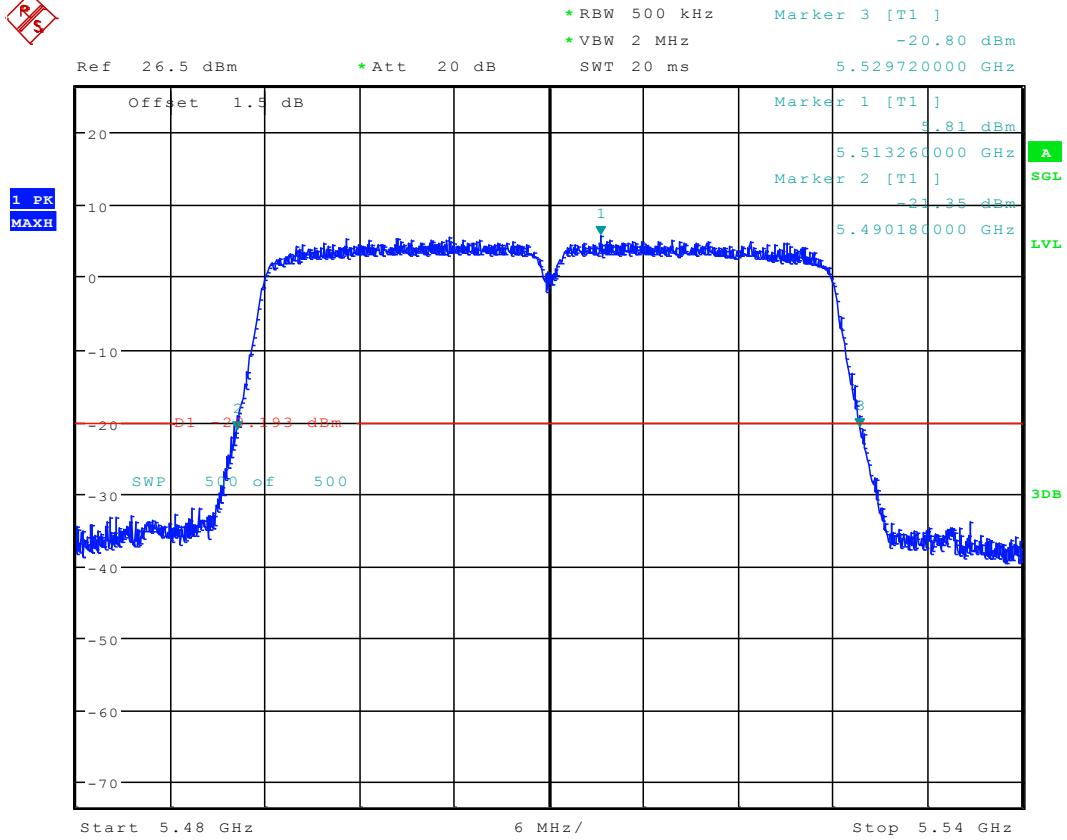
Date: 11.DEC.2017 14:54:58

3.32 11AC40_62 ANT 1



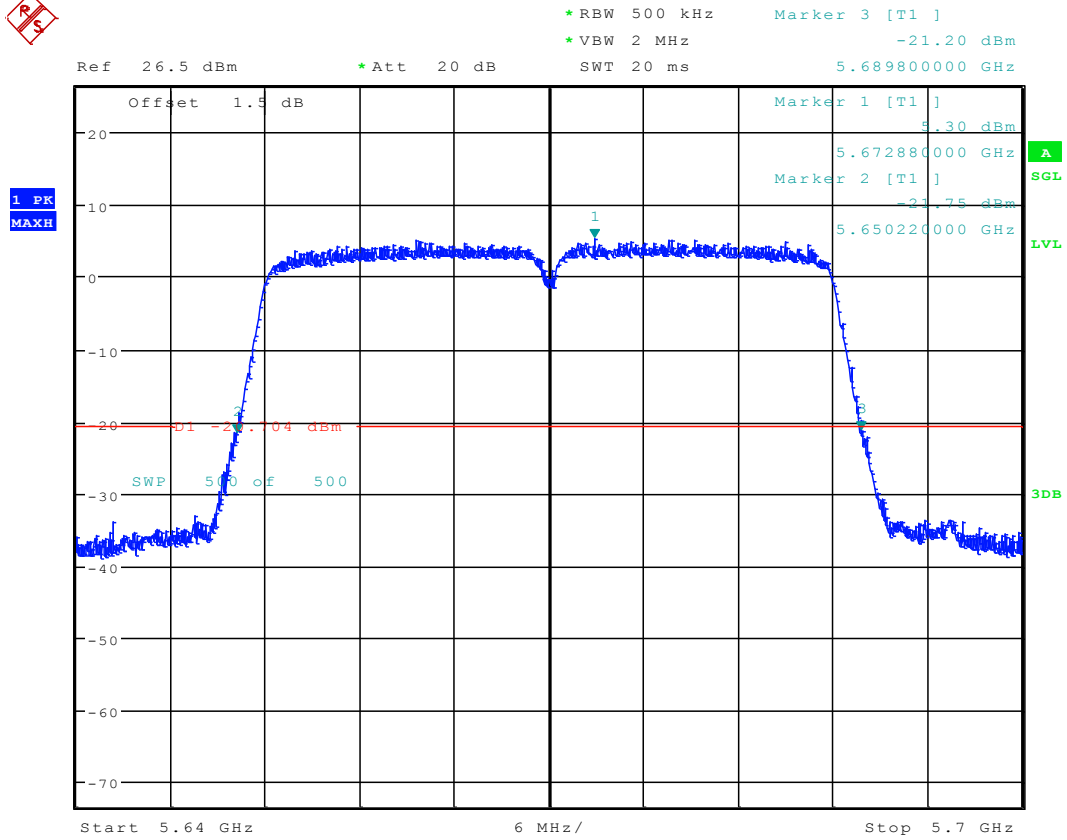
Date: 11.DEC.2017 14:59:25

3.33 11AC40_102 ANT 1



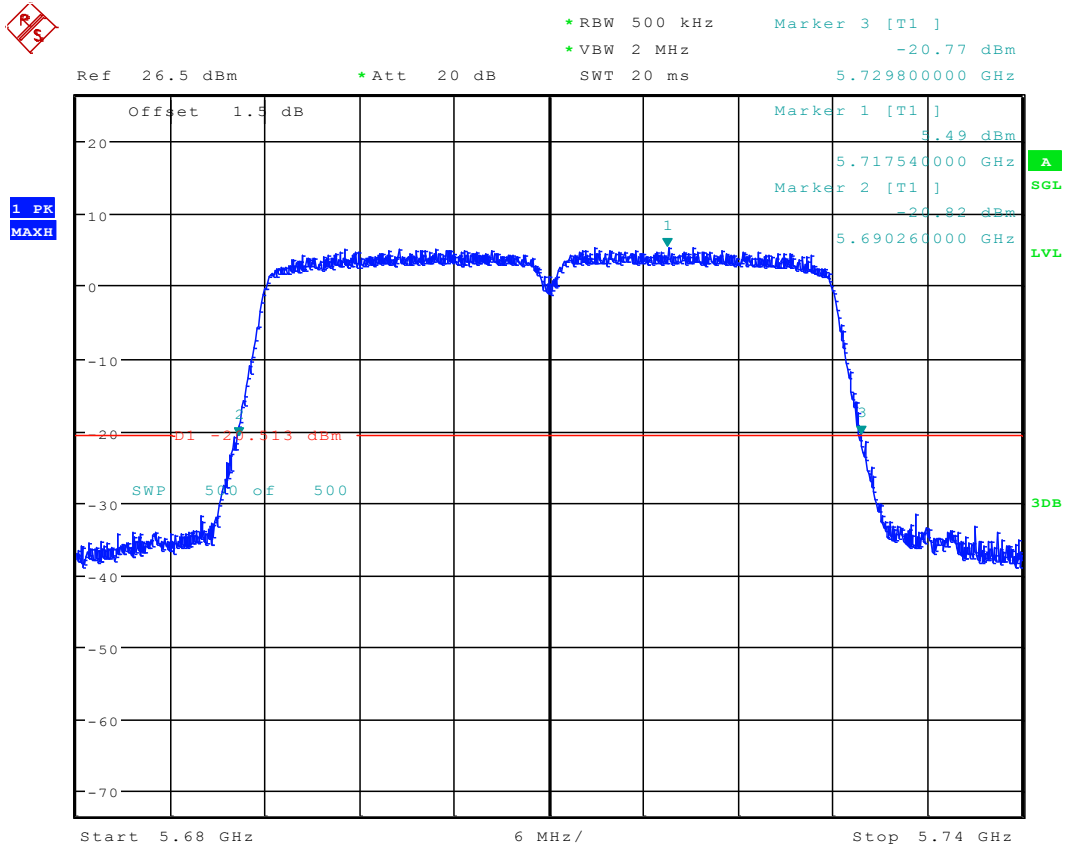
Date: 11.DEC.2017 15:06:34

3.34 11AC40_134 ANT 1



Date: 11.DEC.2017 15:11:29

3.35 11AC40_142 ANT 1

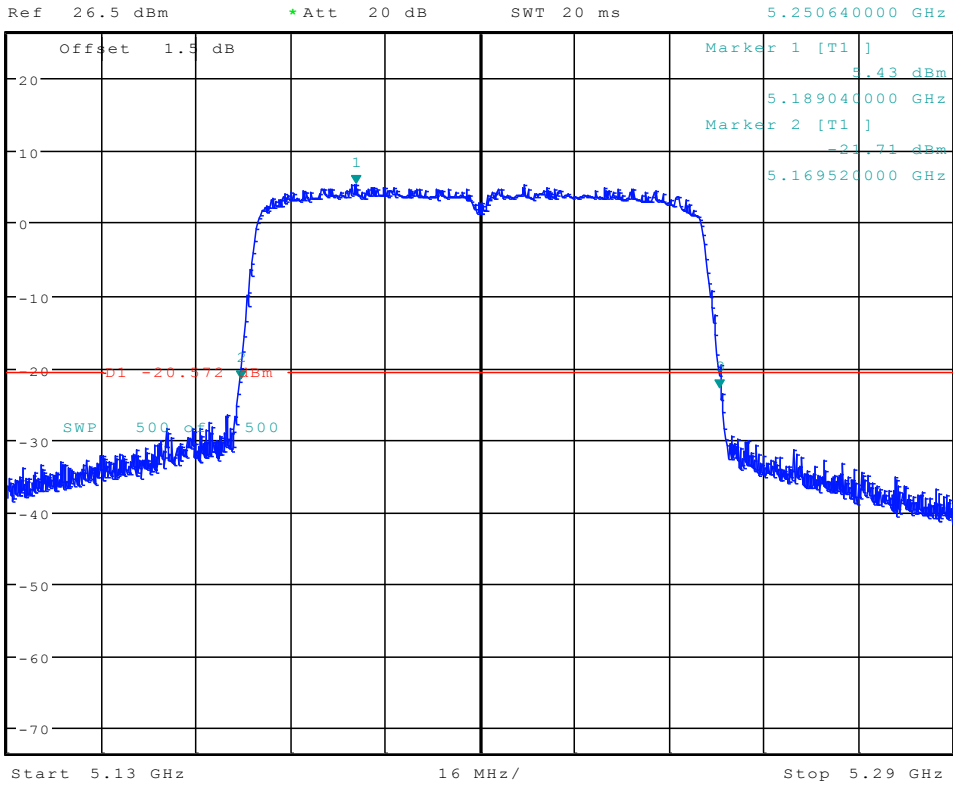


Date: 24.DEC.2017 14:10:55

3.36 11AC80_42 ANT 1

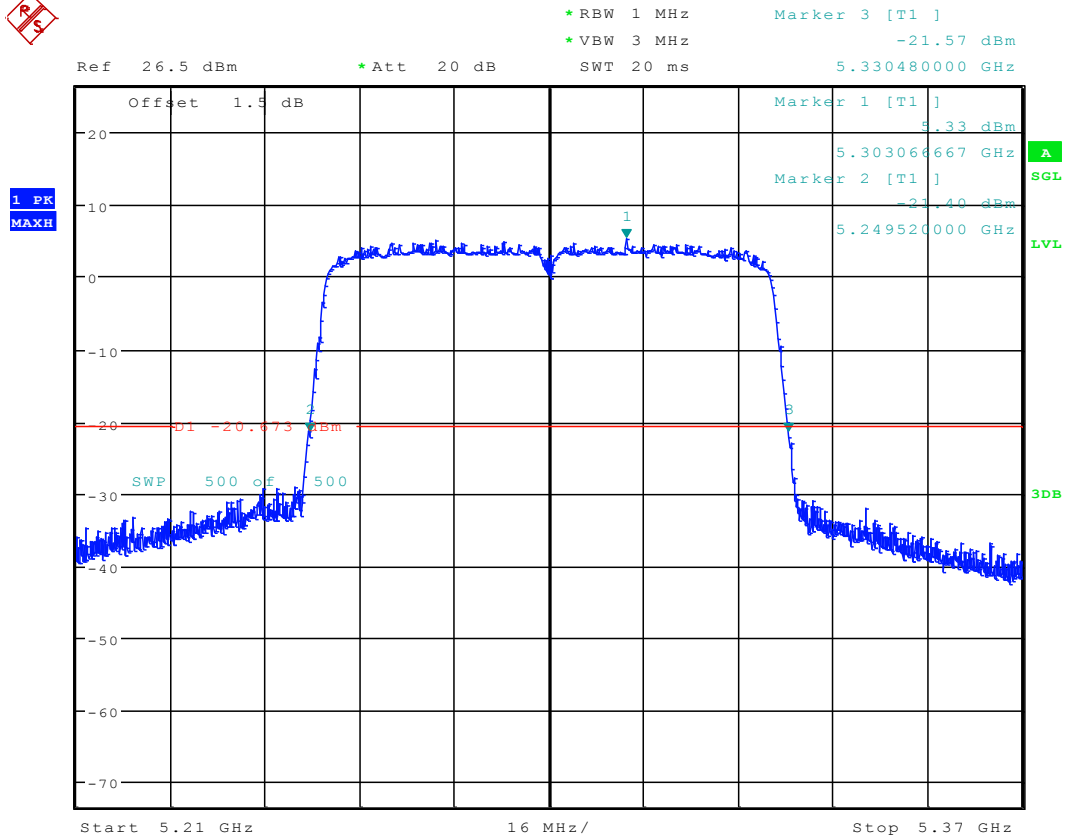


*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -22.87 dBm
 SWT 20 ms 5.250640000 GHz



Date: 11.DEC.2017 15:35:46

3.37 11AC80_58 ANT 1



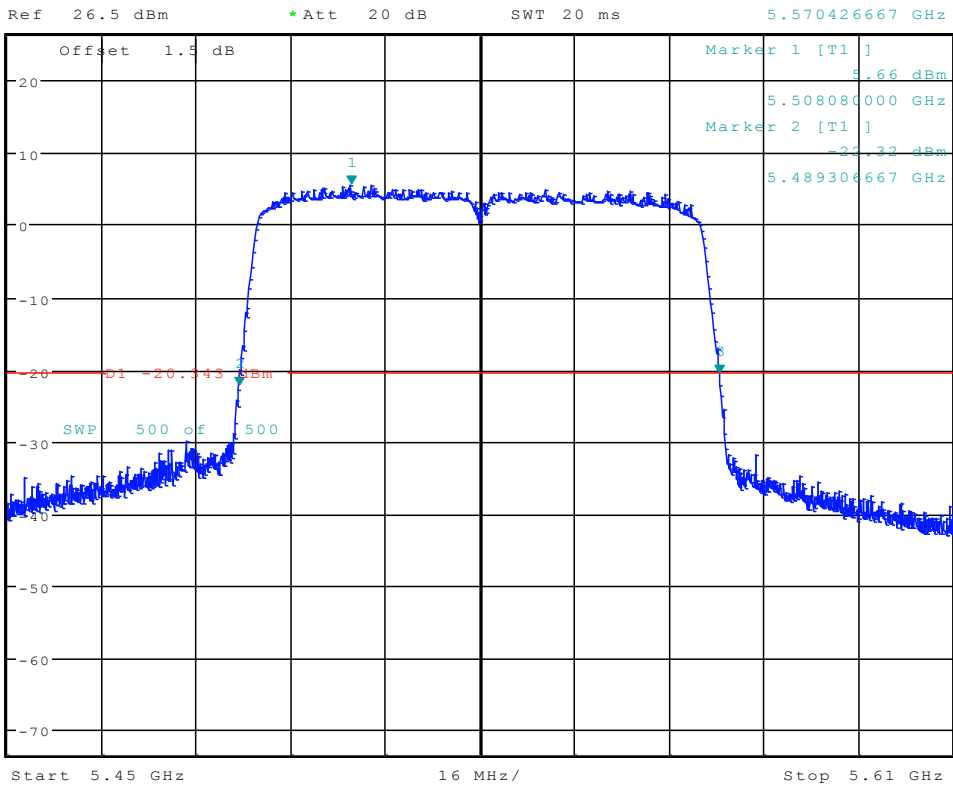
Date: 11.DEC.2017 15:41:21

3.38 11AC80_106 ANT 1



*RBW 1 MHz
 *VBW 3 MHz
 SWT 20 ms

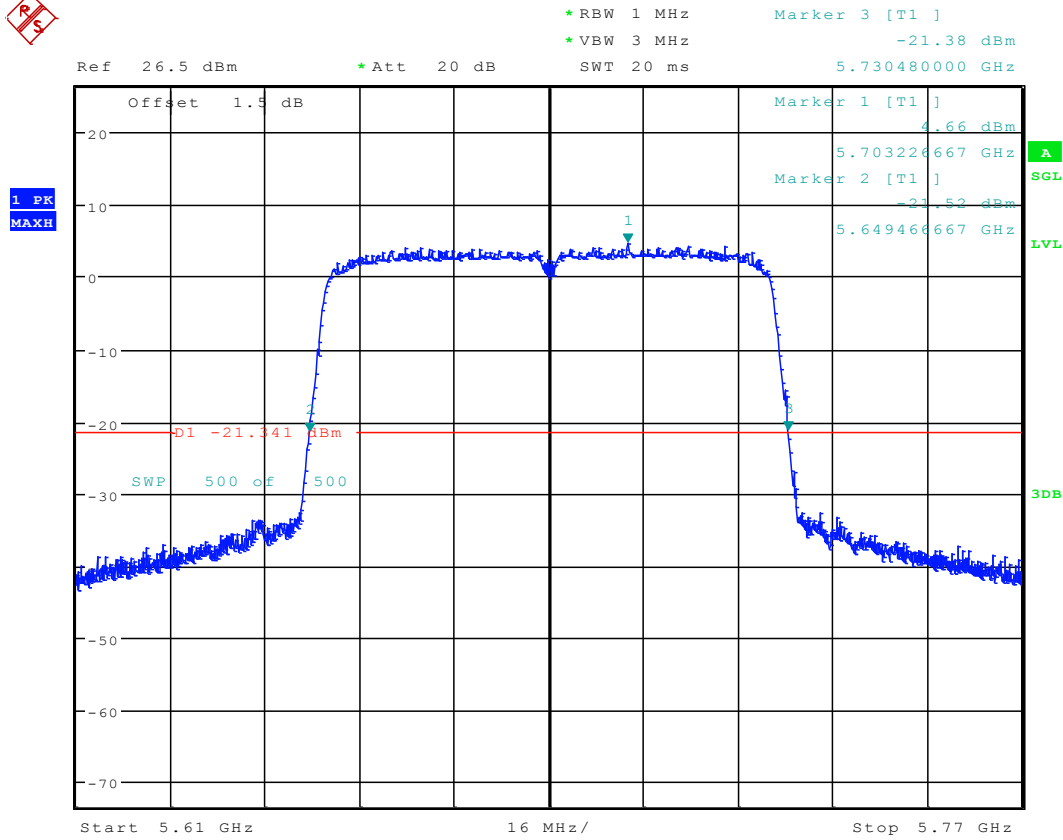
Marker 3 [T1]
 -20.60 dBm
 5.570426667 GHz



Date: 11.DEC.2017 15:45:56



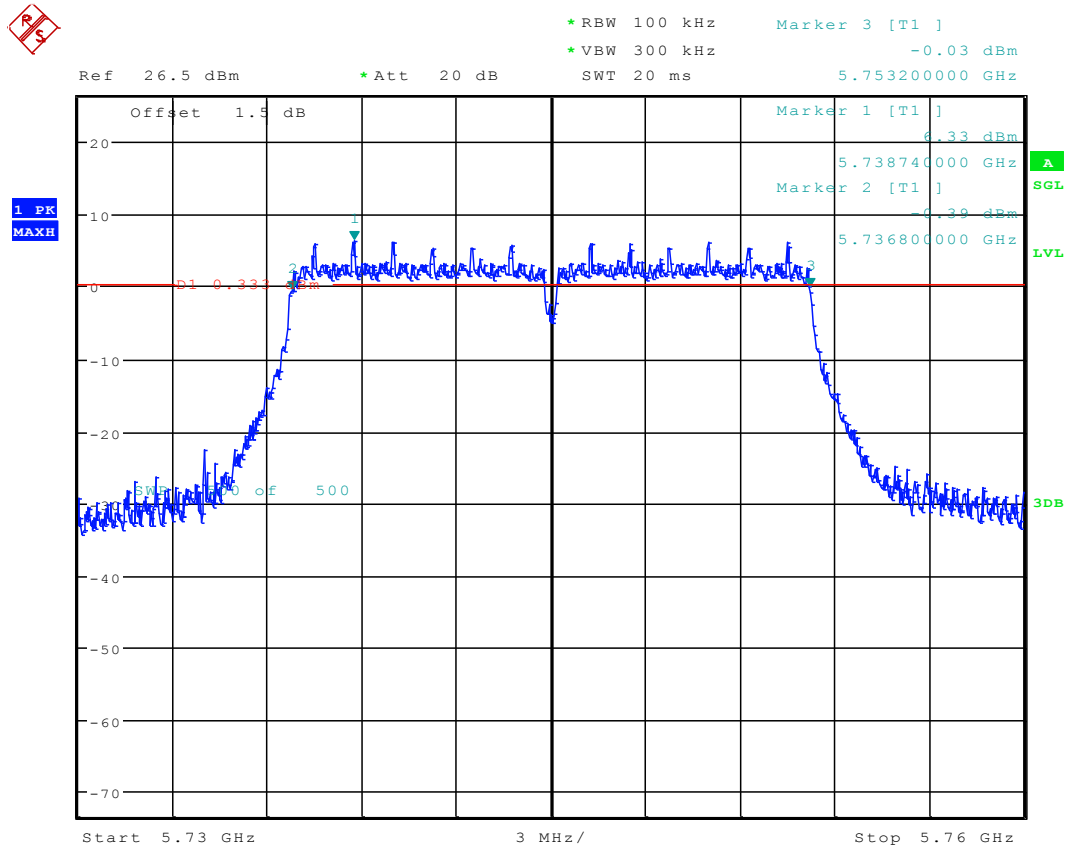
3.39 11AC80_138 ANT 1



Date: 24.DEC.2017 14:40:35

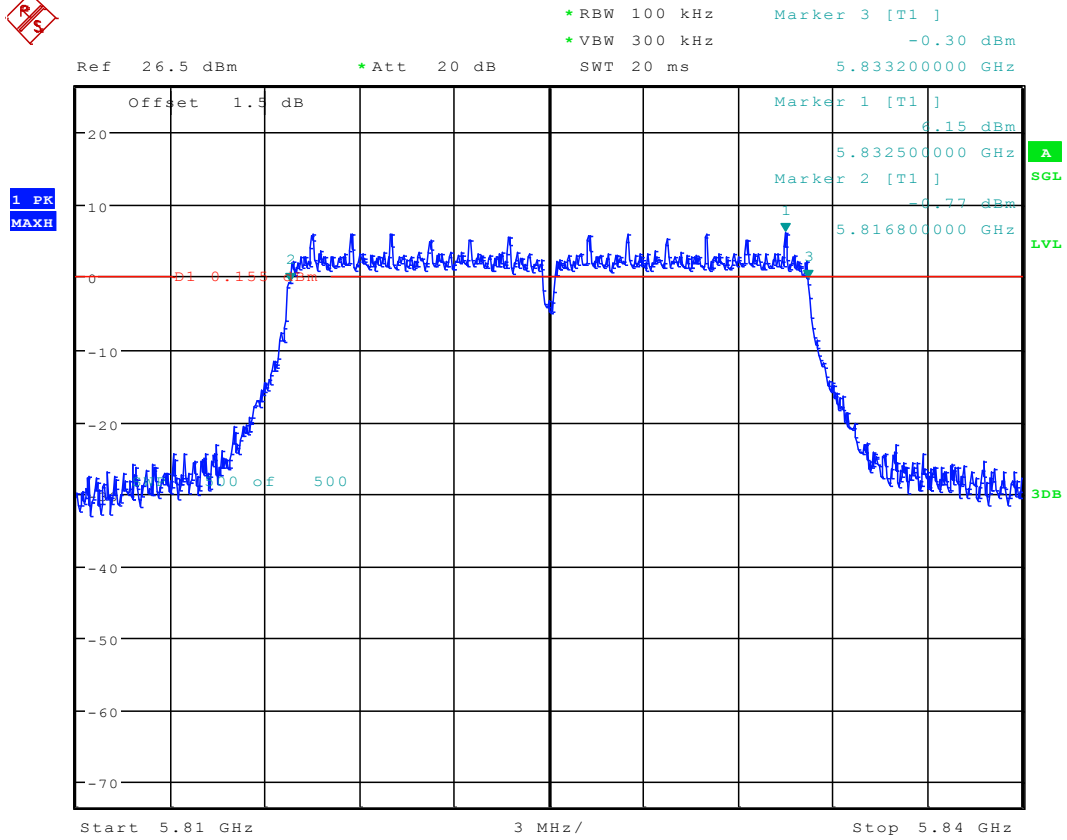
4 Test Plot for 6dB Emission Bandwidth

4.1 11A20_149 ANT 1



Date: 11.DEC.2017 10:27:04

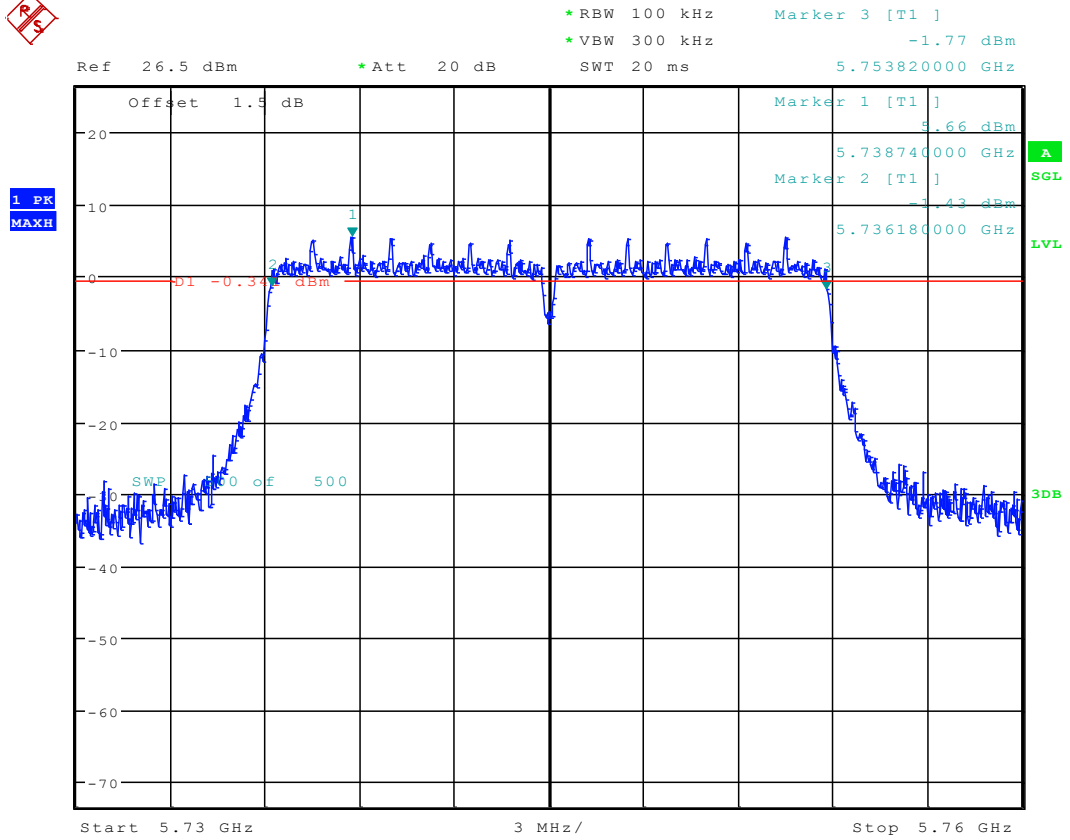
4.2 11A20_165 ANT 1



Date: 11.DEC.2017 10:33:15

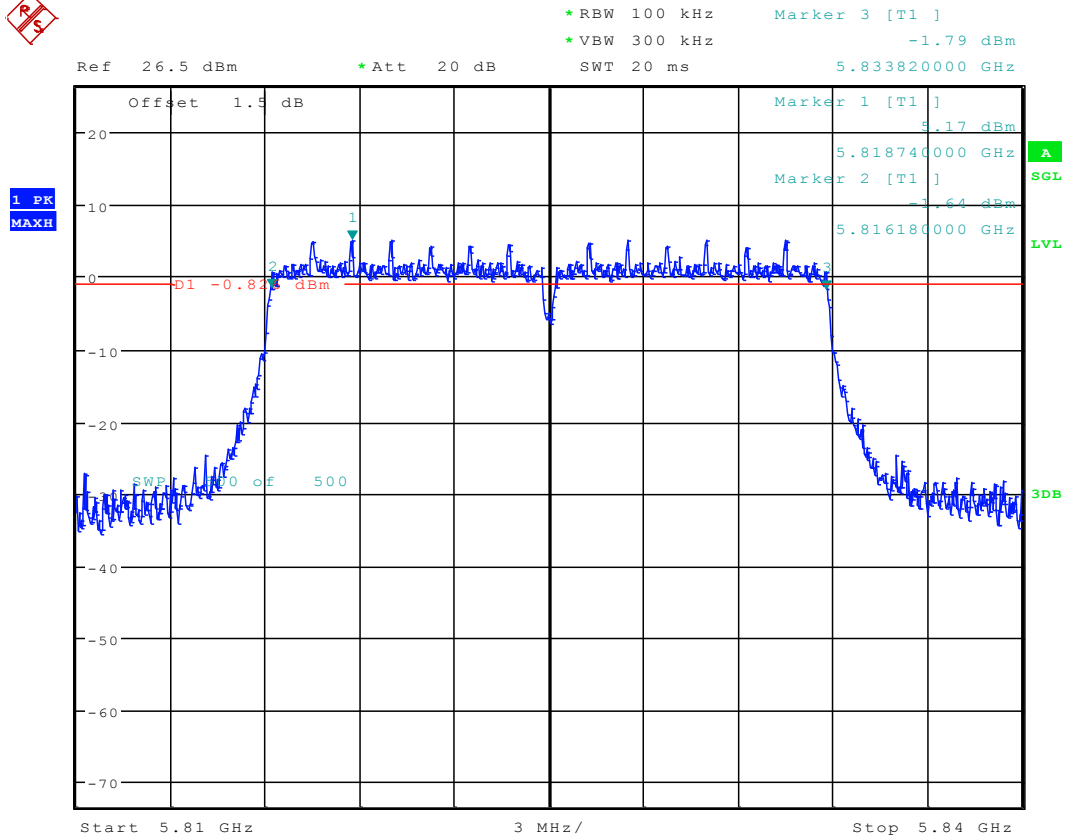


4.3 11N20_149 ANT 1



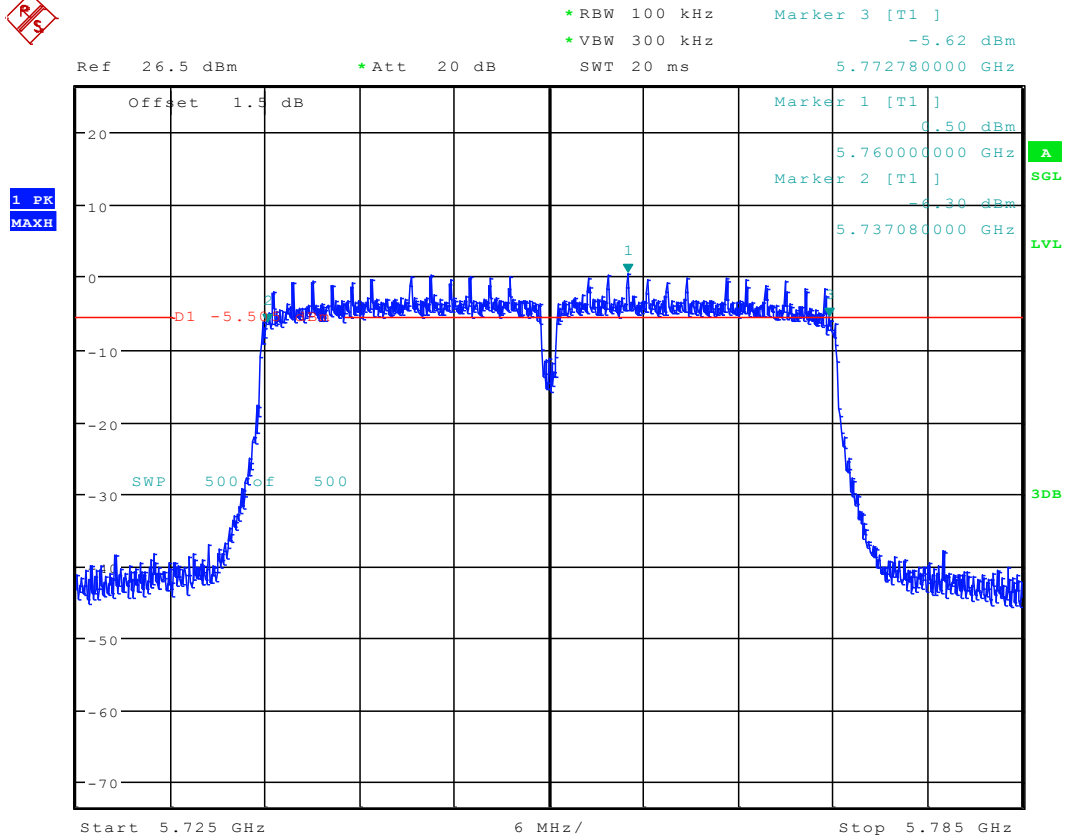
Date: 11.DEC.2017 12:56:22

4.4 11N20_165 ANT 1



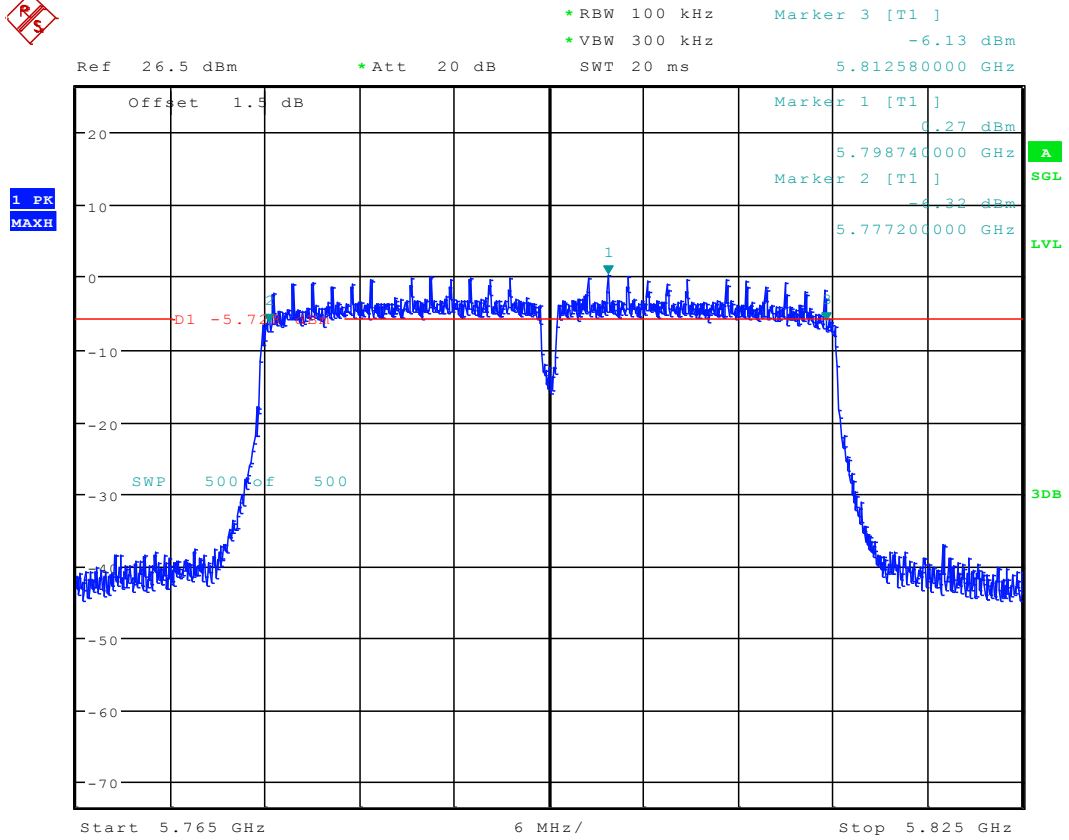
Date: 11.DEC.2017 13:02:30

4.5 11N40_151 ANT 1



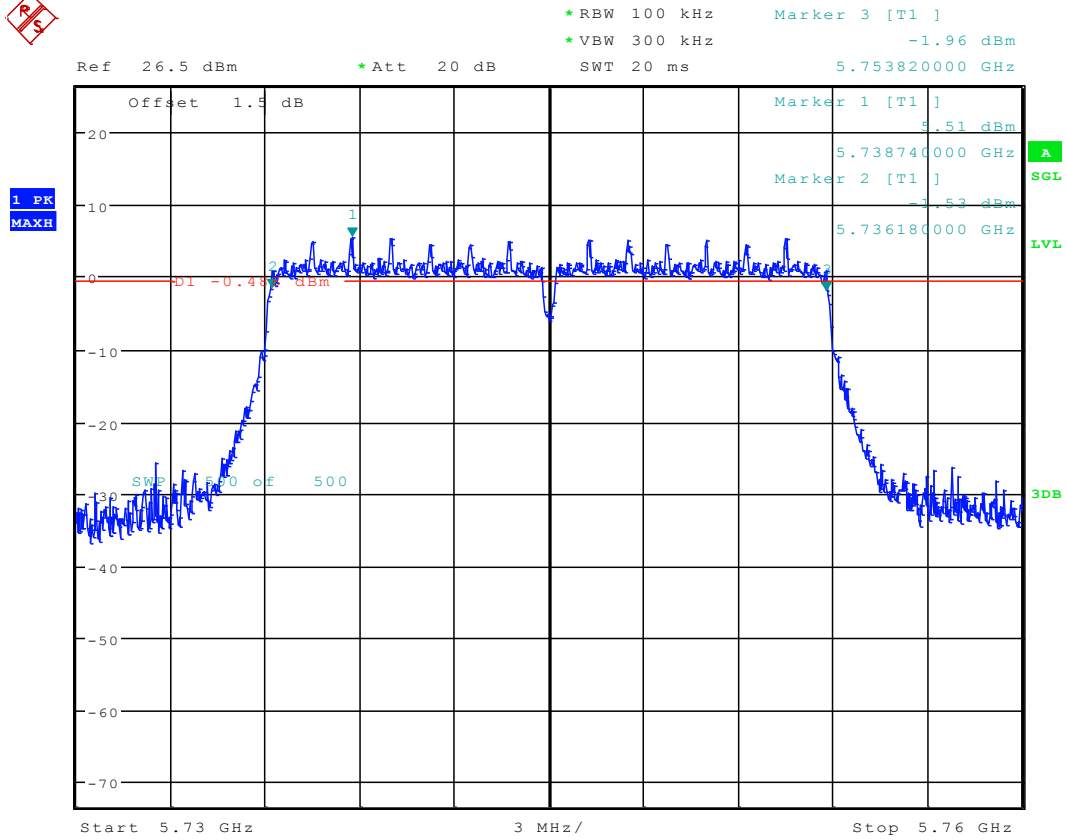
Date: 11.DEC.2017 13:51:15

4.6 11N40_159 ANT 1



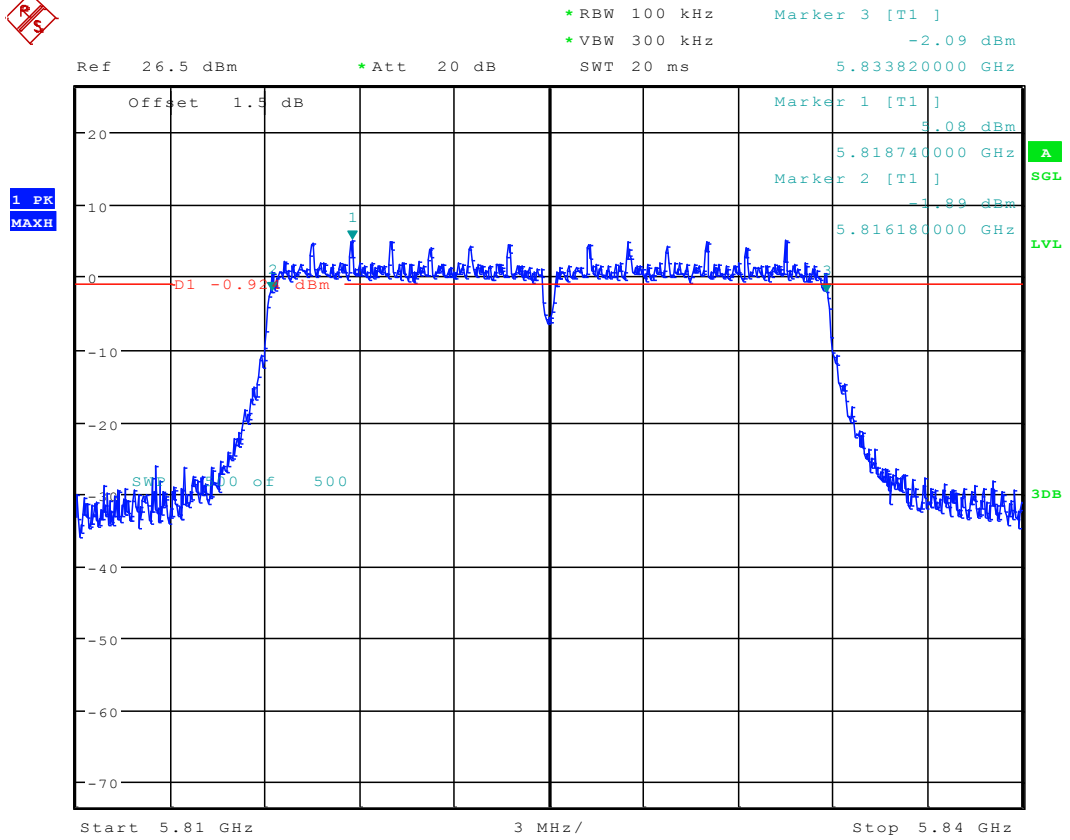
Date: 11.DEC.2017 13:56:07

4.7 11AC20_149 ANT 1



Date: 11.DEC.2017 14:32:45

4.8 11AC20_165 ANT 1

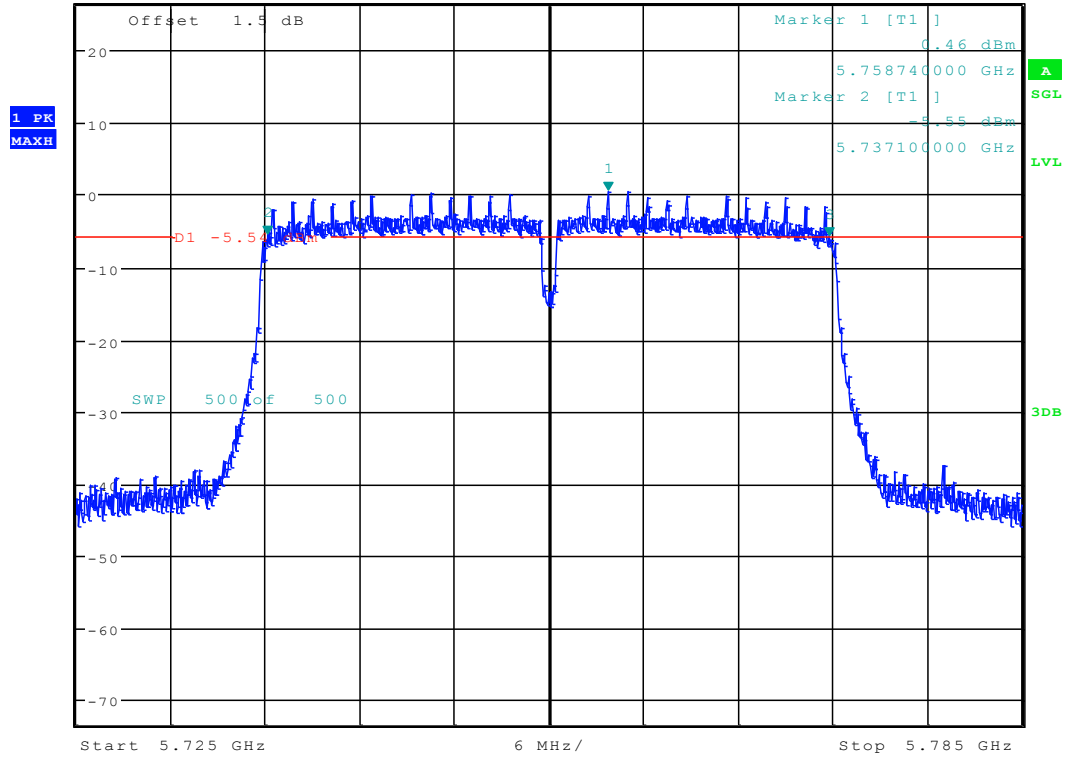


Date: 11.DEC.2017 14:37:42

4.9 11AC40_151 ANT 1

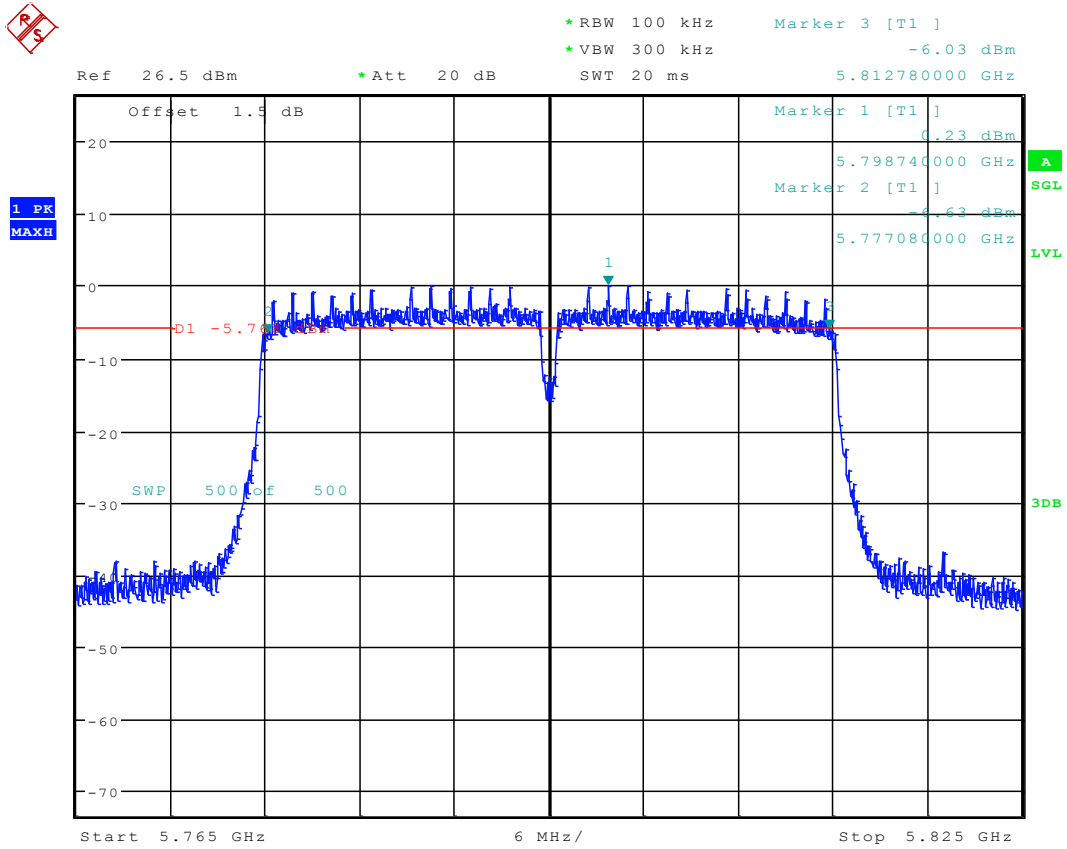


*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -5.76 dBm
 Ref 26.5 dBm *Att 20 dB SWT 20 ms 5.772780000 GHz



Date: 11.DEC.2017 15:16:09

4.10 11AC40_159 ANT 1

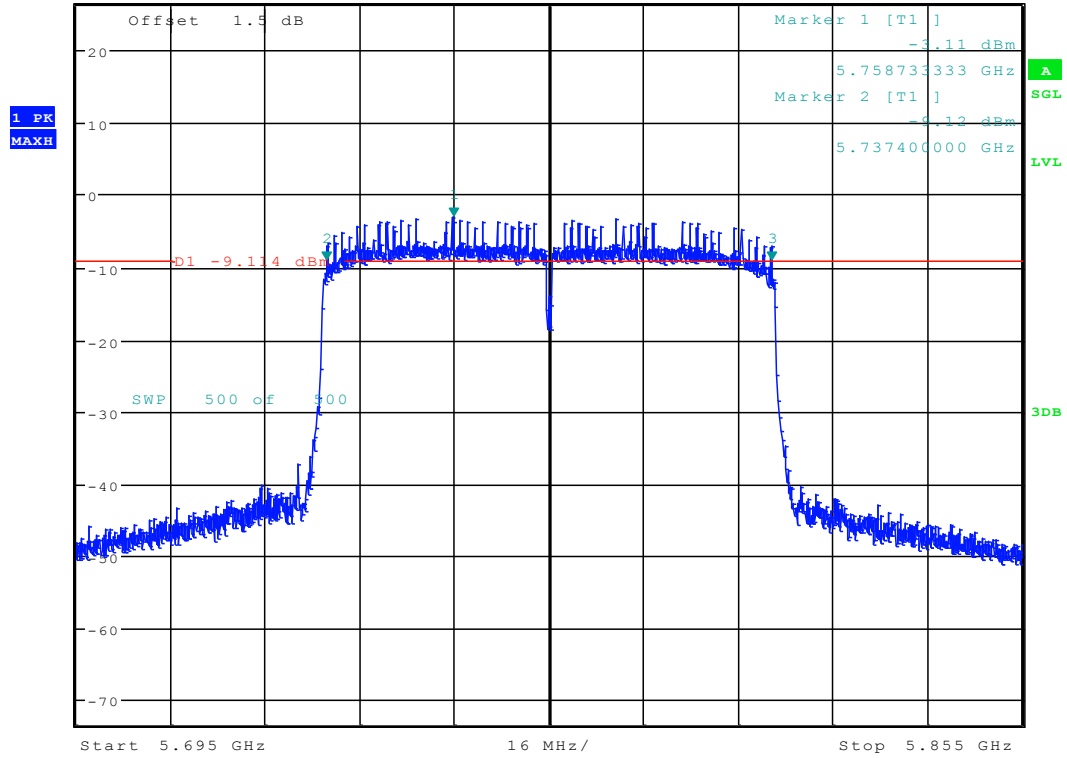


Date: 11.DEC.2017 15:21:15

4.11 11AC80_155 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -9.16 dBm
 Ref 26.5 dBm *Att 20 dB SWT 20 ms 5.812600000 GHz



Date: 11.DEC.2017 15:50:48



Appendix B Occupied Bandwidth (OBW)

5 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A20	36	5180	ANT 1	16.8	PASS
	48	5240	ANT 1	16.84	PASS
	52	5260	ANT 1	16.8	PASS
	64	5320	ANT 1	16.8	PASS
	100	5500	ANT 1	16.78	PASS
	140	5700	ANT 1	16.78	PASS
	144	5720	ANT 1	16.86	PASS
	149	5745	ANT 1	16.82	PASS
	165	5825	ANT 1	16.82	PASS
11N20	36	5180	ANT 1	17.76	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.76	PASS
	64	5320	ANT 1	17.74	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
	144	5720	ANT 1	17.76	PASS
	149	5745	ANT 1	17.78	PASS
	165	5825	ANT 1	17.76	PASS
11N40	38	5190	ANT 1	35.94	PASS
	46	5230	ANT 1	35.92	PASS
	54	5270	ANT 1	35.96	PASS
	62	5310	ANT 1	35.92	PASS
	102	5510	ANT 1	35.92	PASS
	134	5670	ANT 1	35.92	PASS
	142	5710	ANT 1	35.96	PASS
	151	5755	ANT 1	35.94	PASS
	159	5795	ANT 1	35.94	PASS
11AC20	36	5180	ANT 1	17.76	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.76	PASS
	64	5320	ANT 1	17.76	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
	144	5720	ANT 1	17.76	PASS

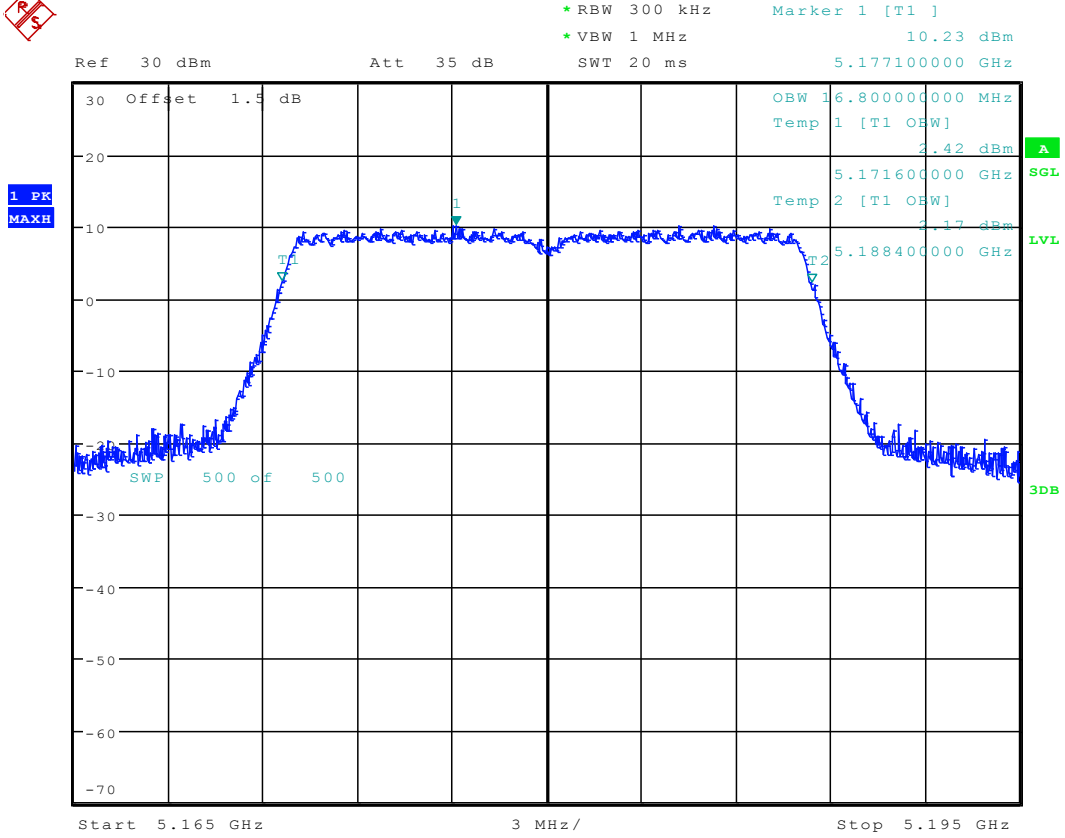


	149	5745	ANT 1	17.78	PASS
	165	5825	ANT 1	17.78	PASS
11AC40	38	5190	ANT 1	35.92	PASS
	46	5230	ANT 1	35.9	PASS
	54	5270	ANT 1	35.94	PASS
	62	5310	ANT 1	35.92	PASS
	102	5510	ANT 1	35.92	PASS
	134	5670	ANT 1	35.92	PASS
	142	5710	ANT 1	35.94	PASS
	151	5755	ANT 1	35.92	PASS
	159	5795	ANT 1	35.92	PASS
	11AC80	42	5210	ANT 1	74.76
58		5290	ANT 1	74.88	PASS
106		5530	ANT 1	74.8	PASS
138		5690	ANT 1	74.88	PASS
155		5775	ANT 1	74.84	PASS



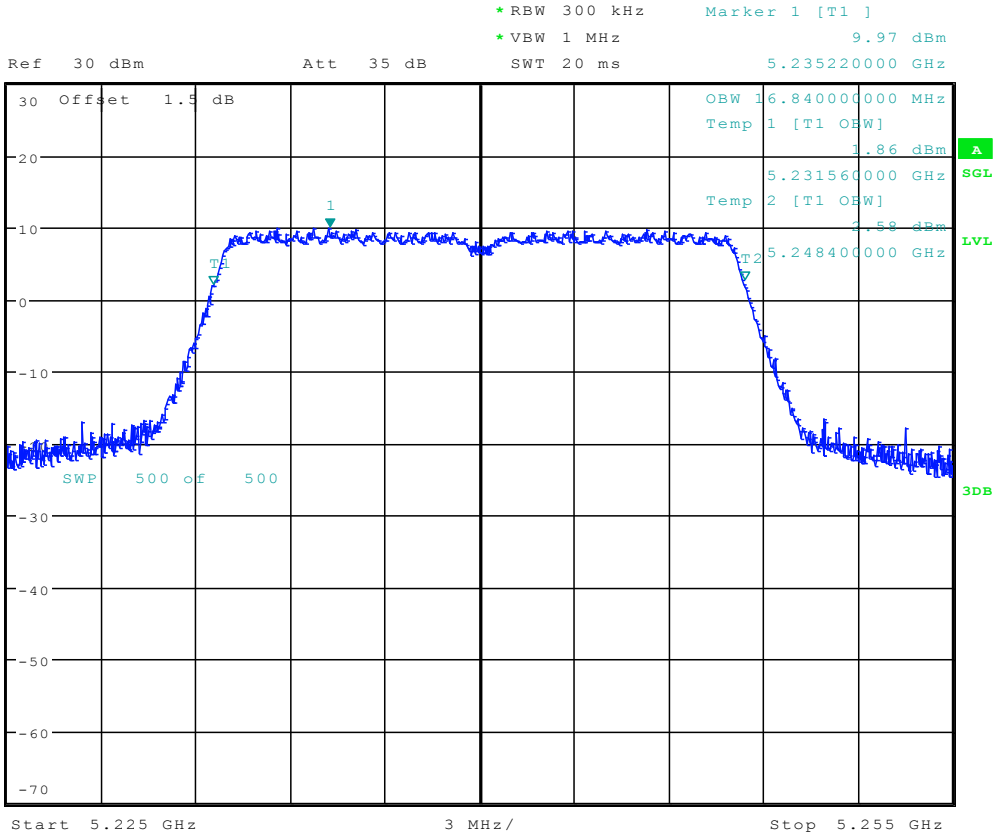
6 Test Plot

6.1 11A20_36 ANT 1



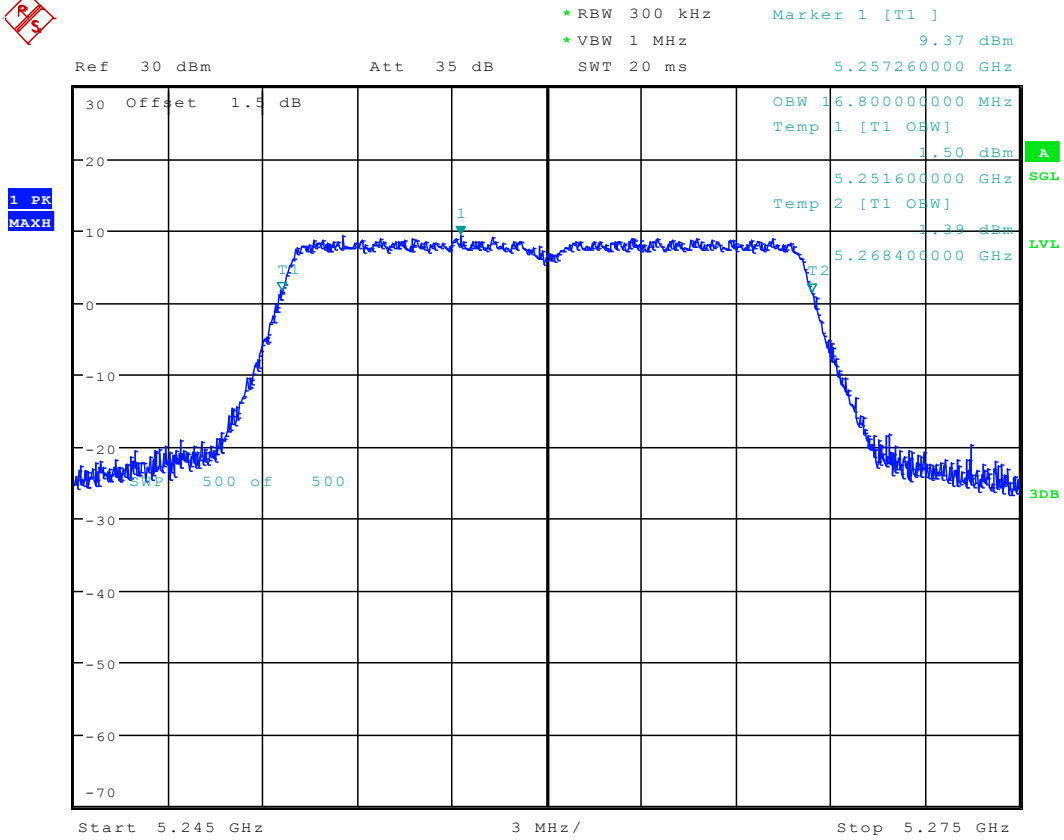
Date: 11.DEC.2017 09:43:07

6.2 11A20_48 ANT 1



Date: 11.DEC.2017 09:51:17

6.3 11A20_52 ANT 1



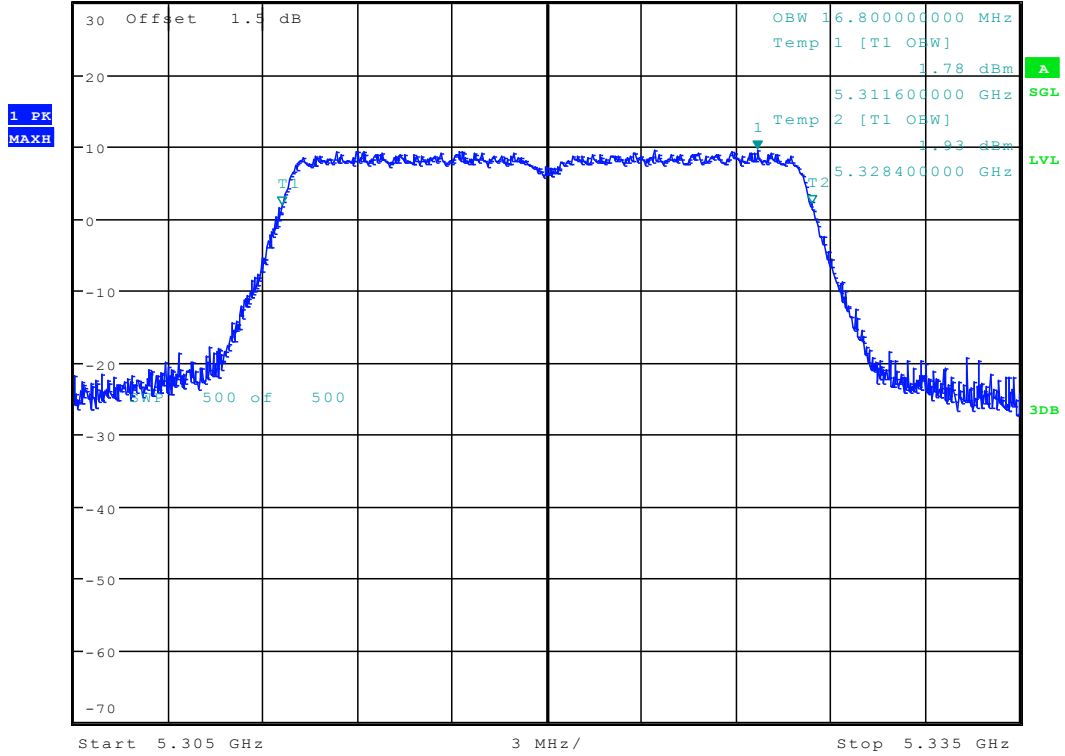
Date: 11.DEC.2017 09:56:29

6.4 11A20_64 ANT 1



*RBW 300 kHz Marker 1 [T1] 9.43 dBm
 *VBW 1 MHz

Ref 30 dBm Att 35 dB SWT 20 ms 5.326660000 GHz

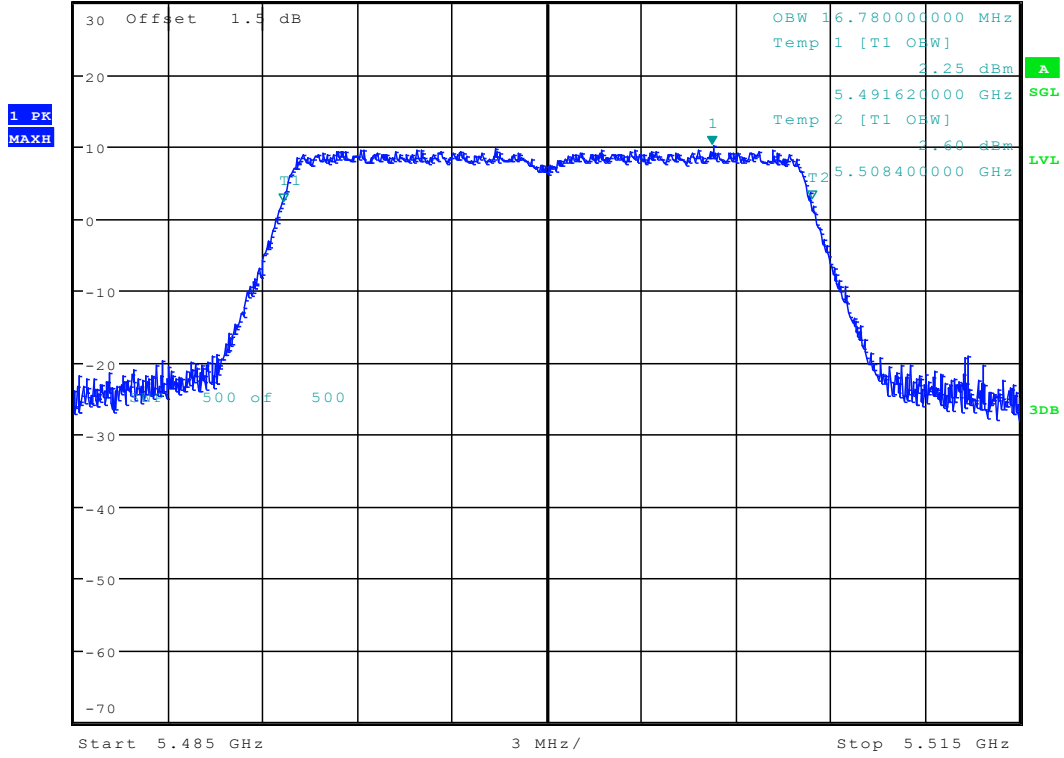


Date: 11.DEC.2017 10:06:52

6.5 11A20_100 ANT 1



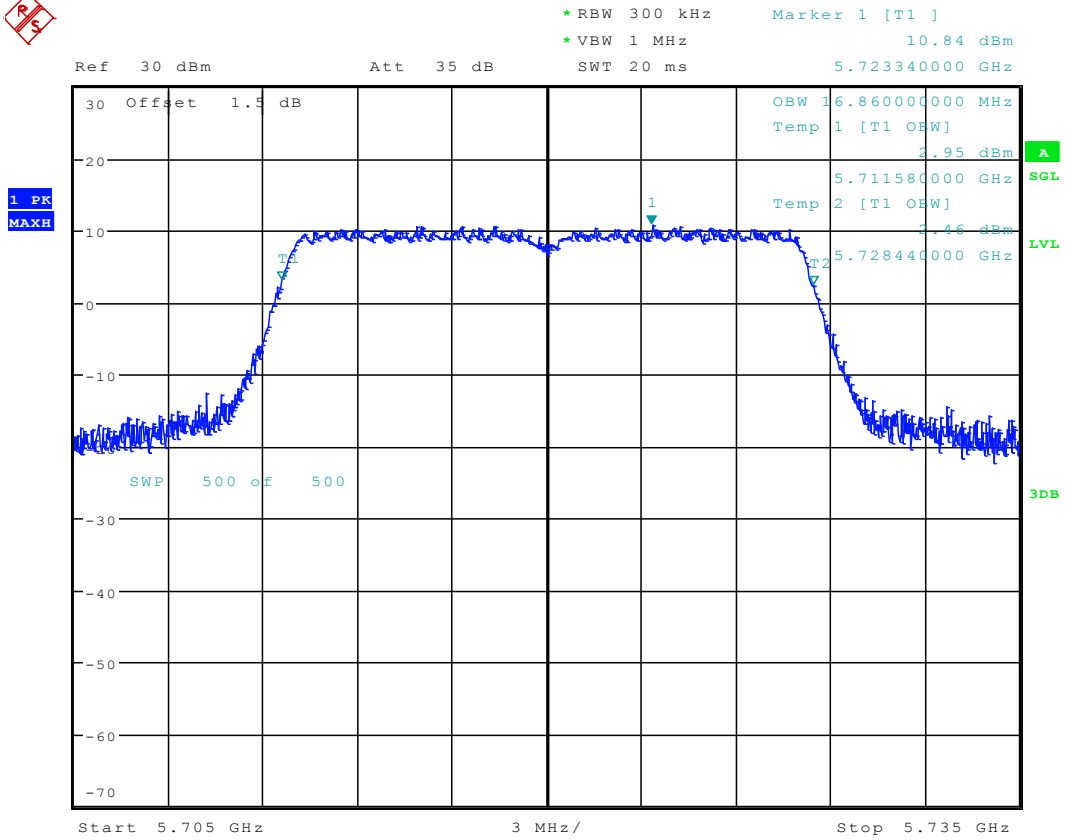
*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 10.12 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.505260000 GHz



Date: 11.DEC.2017 10:13:16

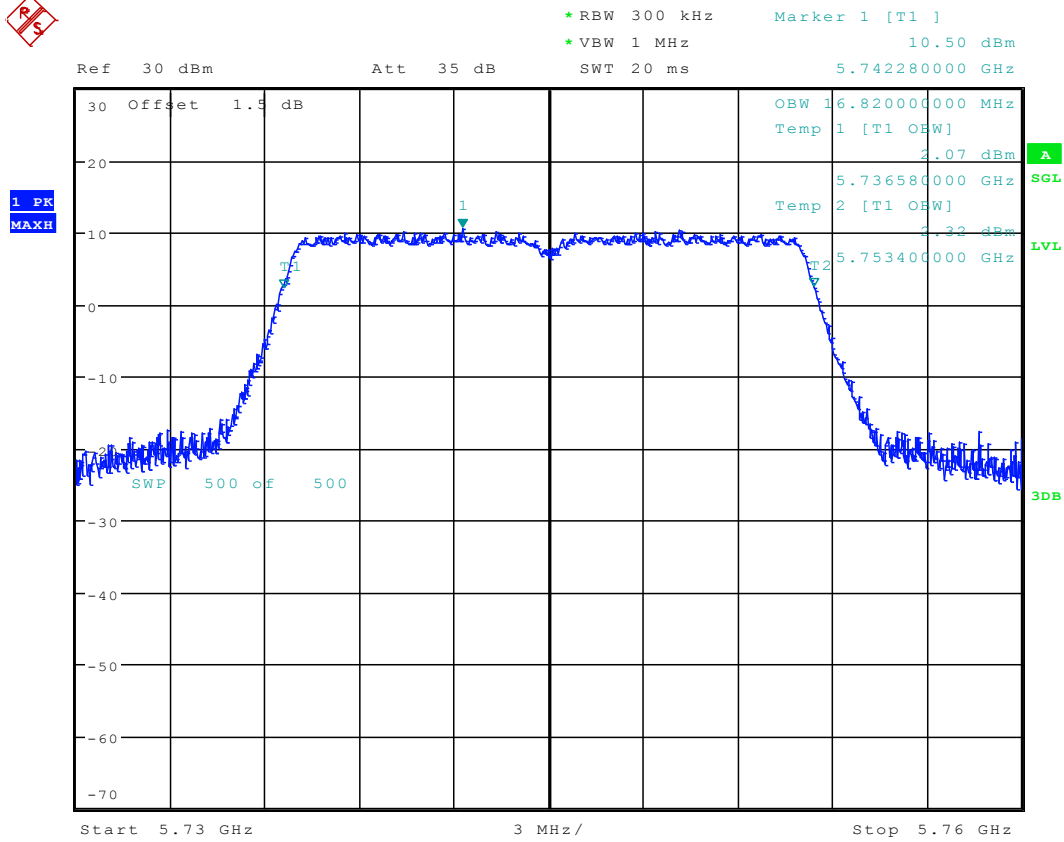


6.7 11A20_144 ANT 1



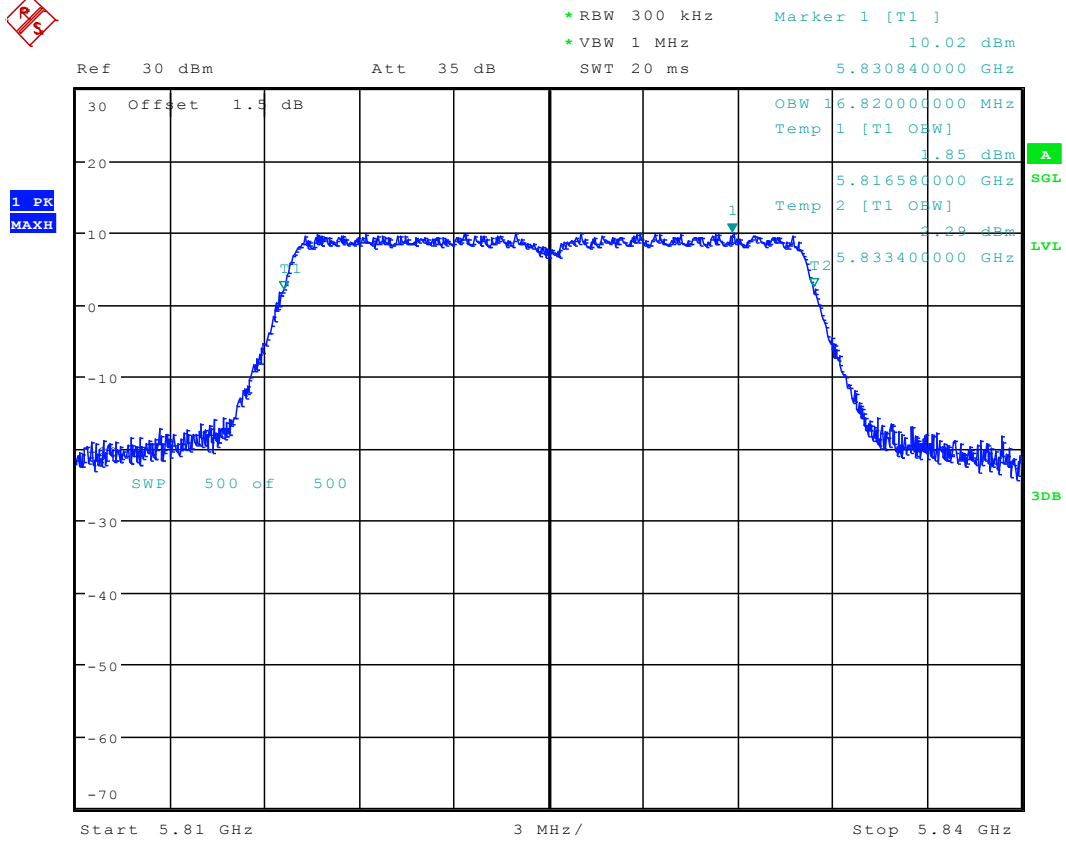
Date: 23.DEC.2017 15:31:32

6.8 11A20_149 ANT 1



Date: 11.DEC.2017 10:27:49

6.9 11A20_165 ANT 1

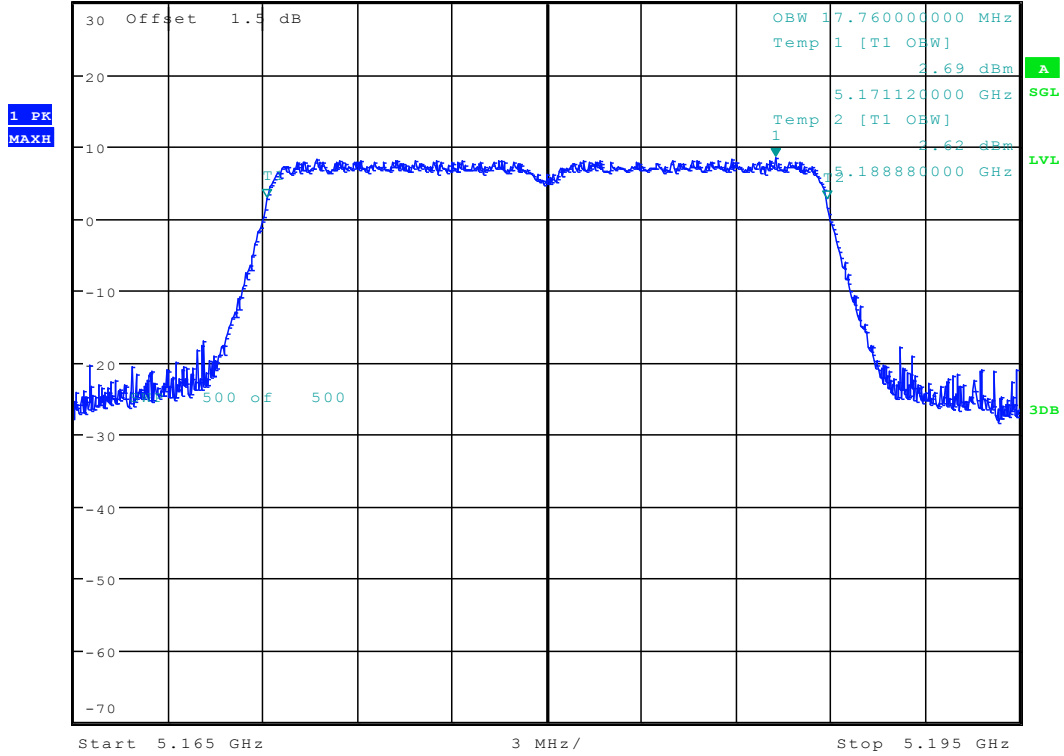


Date: 11.DEC.2017 10:34:00

6.10 11N20_36 ANT 1



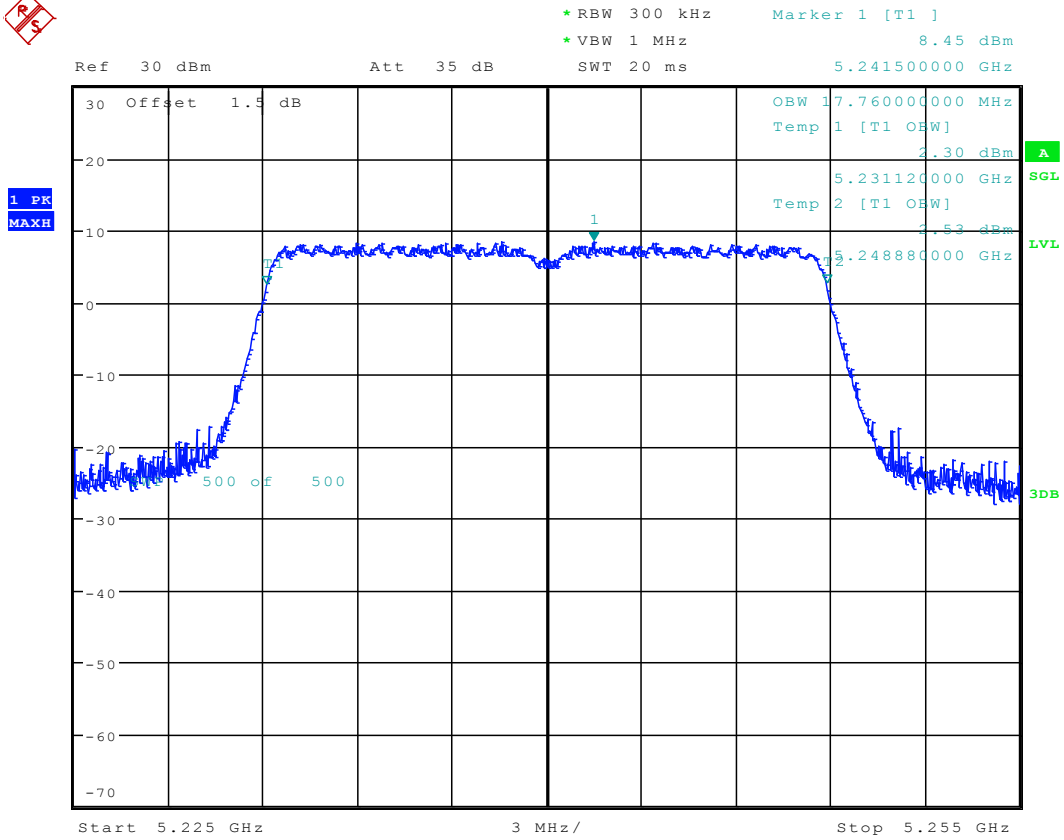
*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 8.43 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.187260000 GHz



Date: 11.DEC.2017 10:42:25

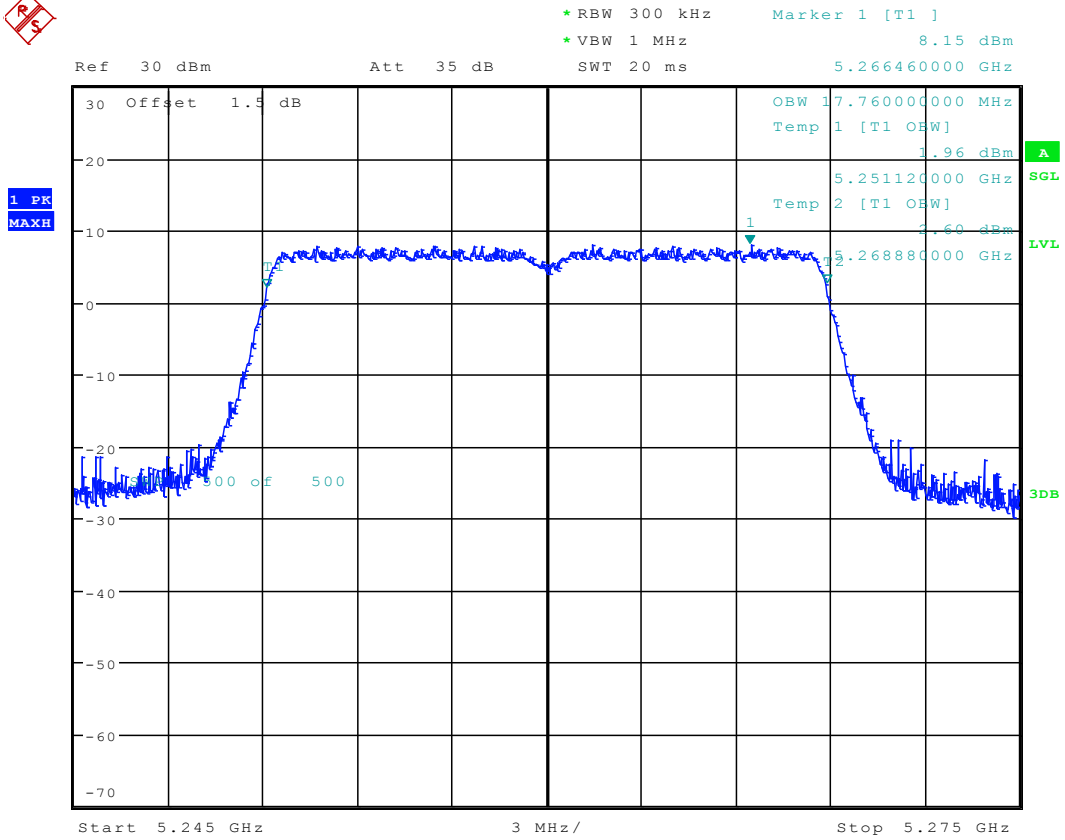


6.11 11N20_48 ANT 1



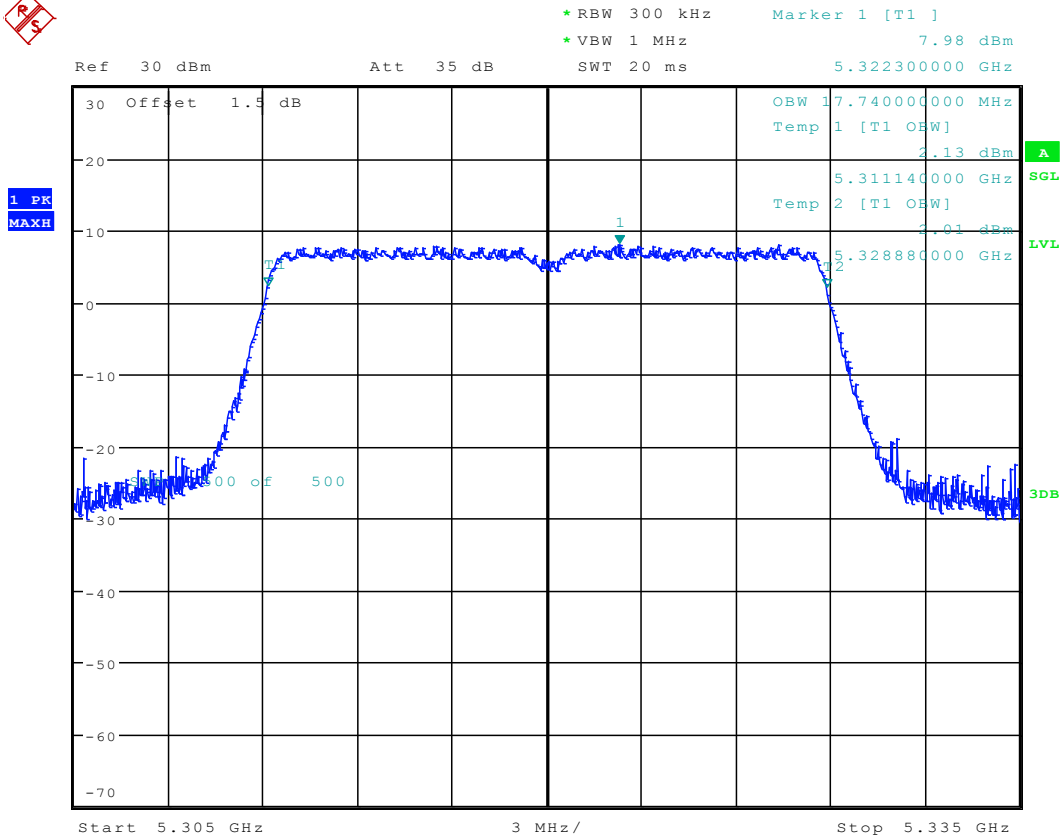
Date: 11.DEC.2017 10:52:39

6.12 11N20_52 ANT 1



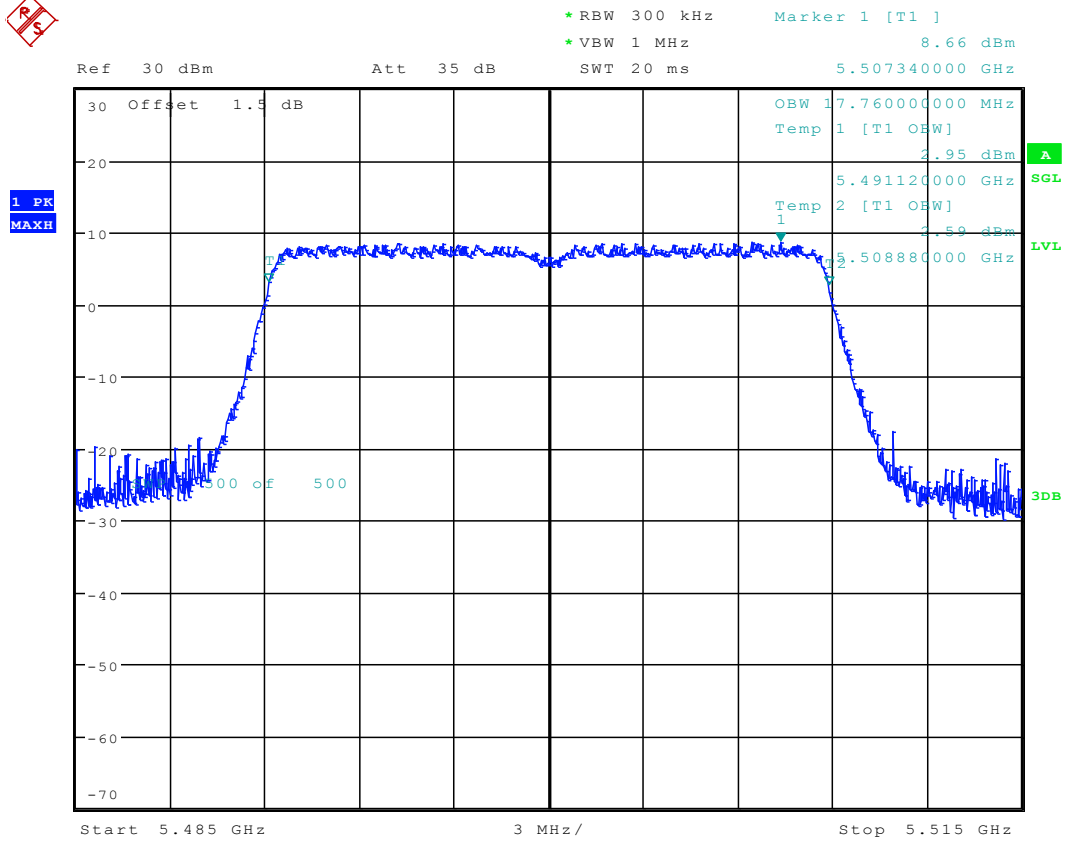
Date: 11.DEC.2017 10:58:09

6.13 11N20_64 ANT 1



Date: 11.DEC.2017 11:03:05

6.14 11N20_100 ANT 1



Date: 11.DEC.2017 11:08:23

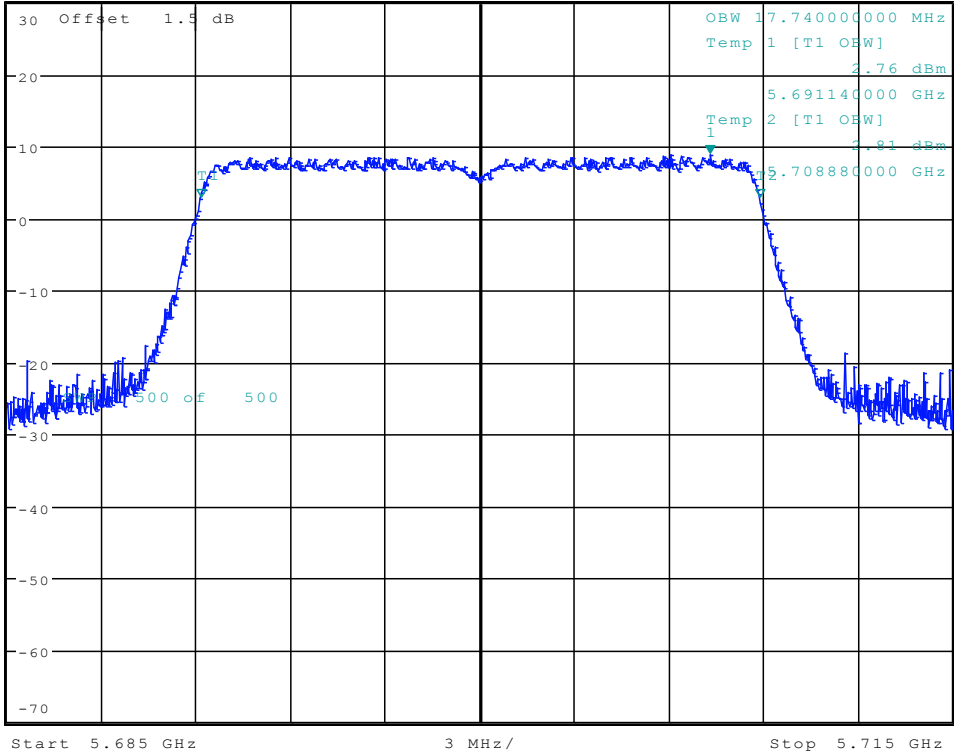
6.15 11N20_140 ANT 1



*RBW 300 kHz Marker 1 [T1]
*VBW 1 MHz 8.85 dBm
SWT 20 ms 5.707300000 GHz

Ref 30 dBm

Att 35 dB



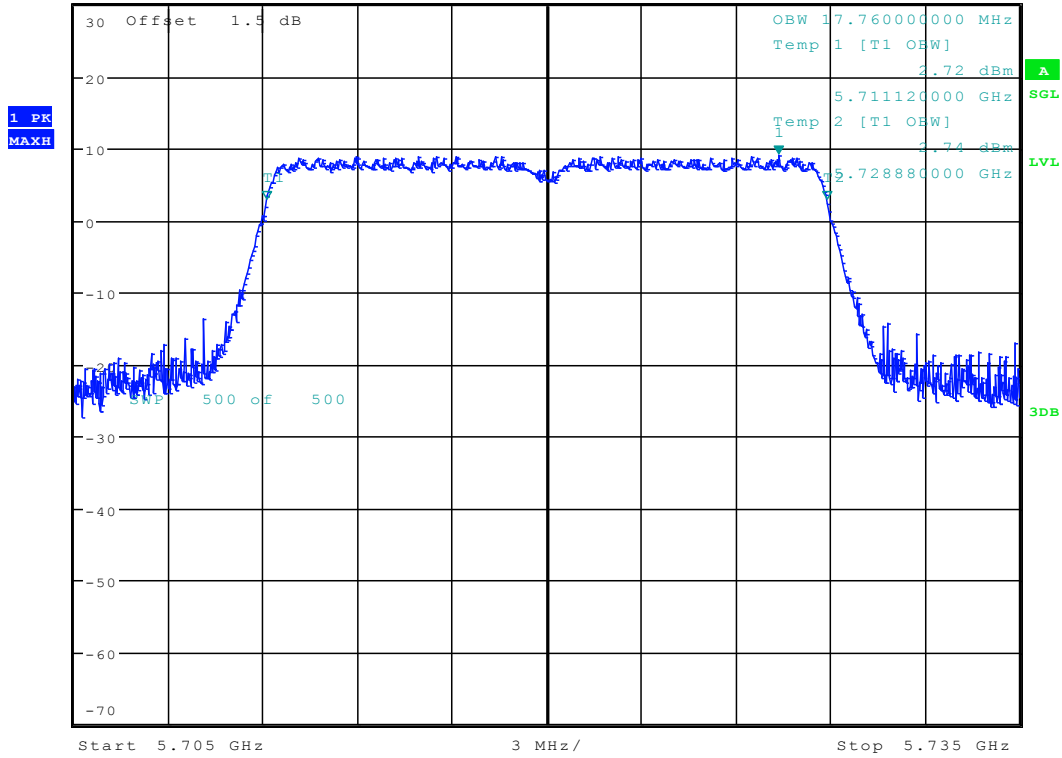
Date: 11.DEC.2017 12:49:45



6.1611N20_144 ANT 1

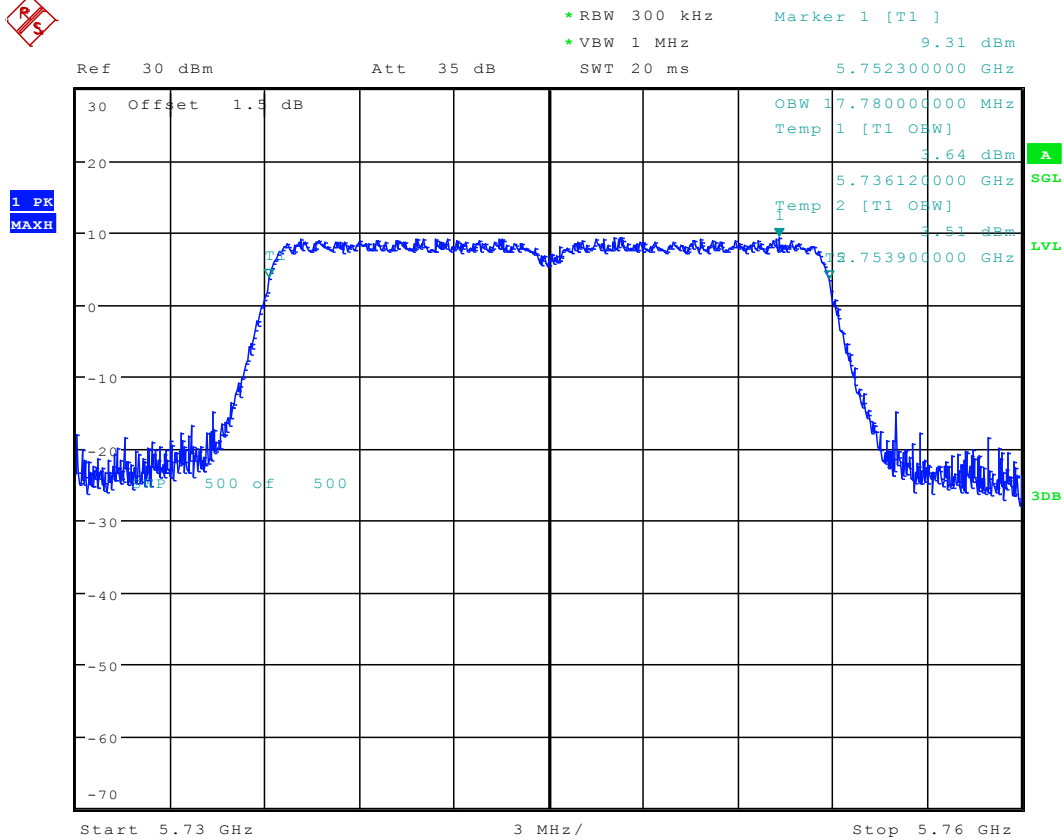


*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 9.00 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.727340000 GHz



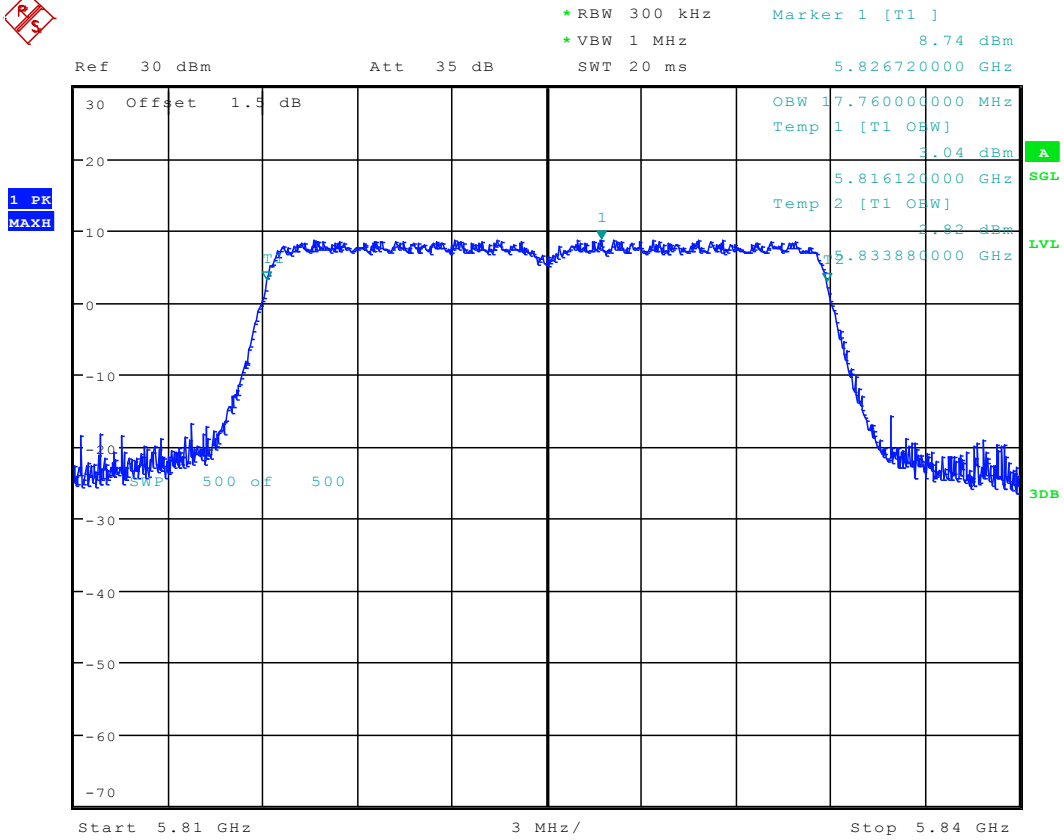
Date: 23.DEC.2017 15:38:25

6.17 11N20_149 ANT 1



Date: 11.DEC.2017 12:57:08

6.18 11N20_165 ANT 1



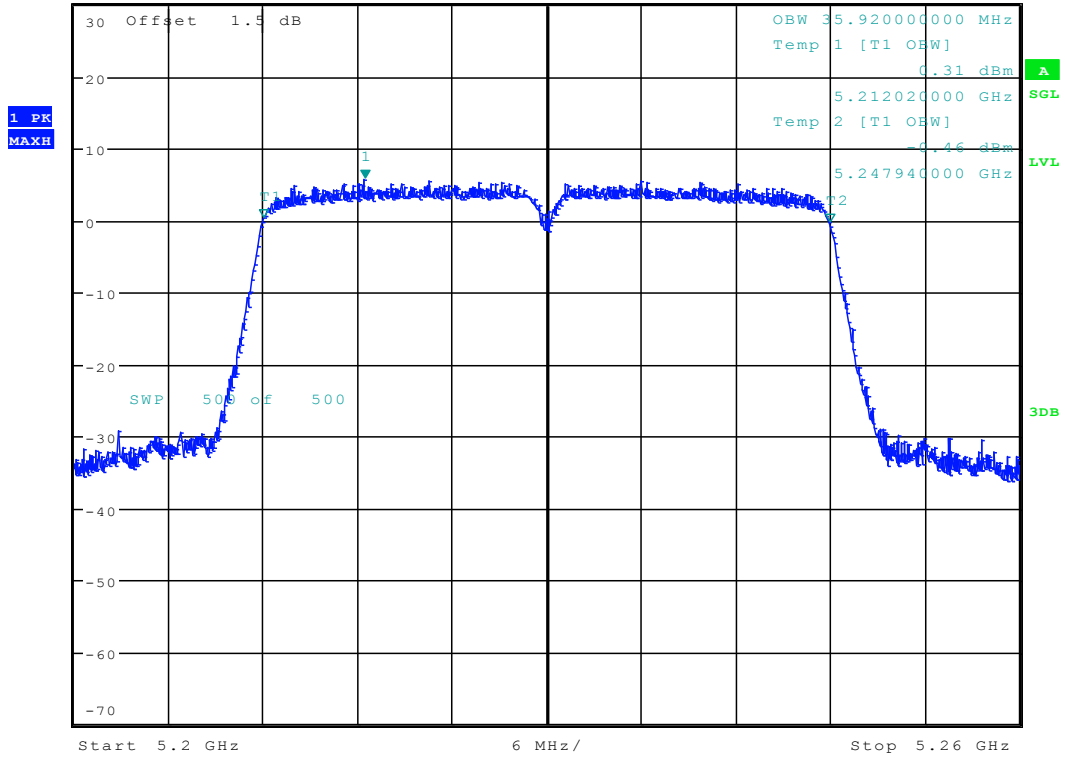
Date: 11.DEC.2017 13:03:16



6.20 11N40_46 ANT 1

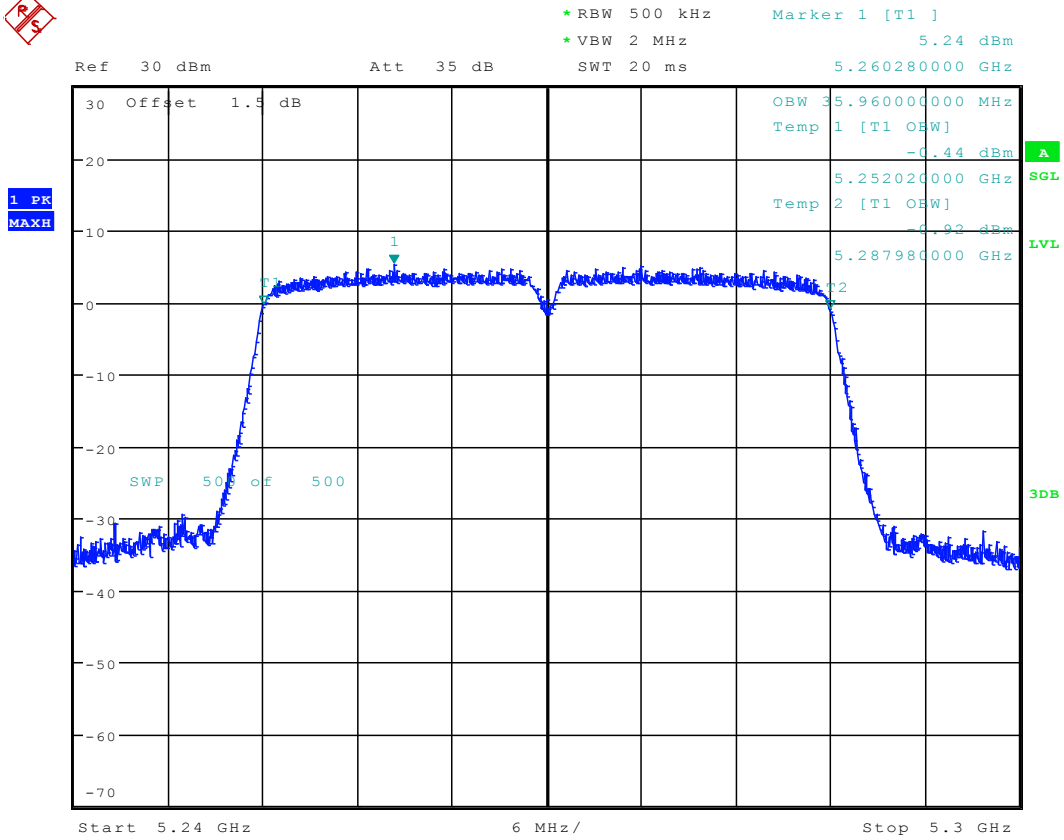


*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 5.66 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.218420000 GHz



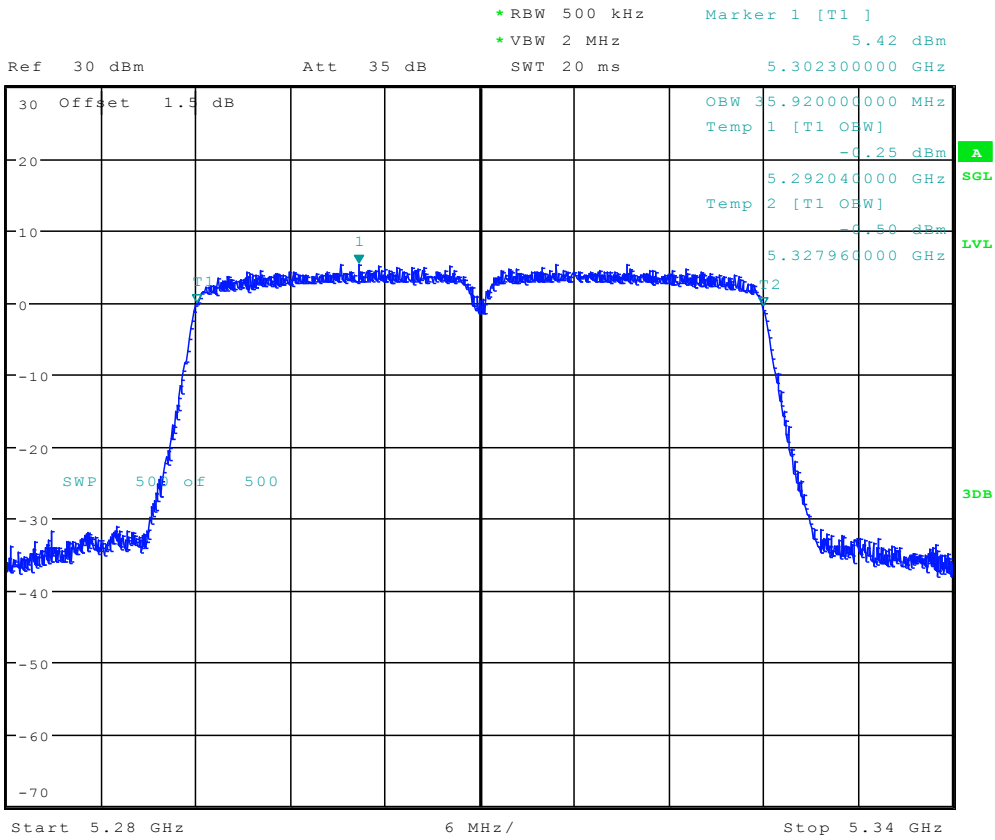
Date: 11.DEC.2017 13:23:39

6.21 11N40_54 ANT 1



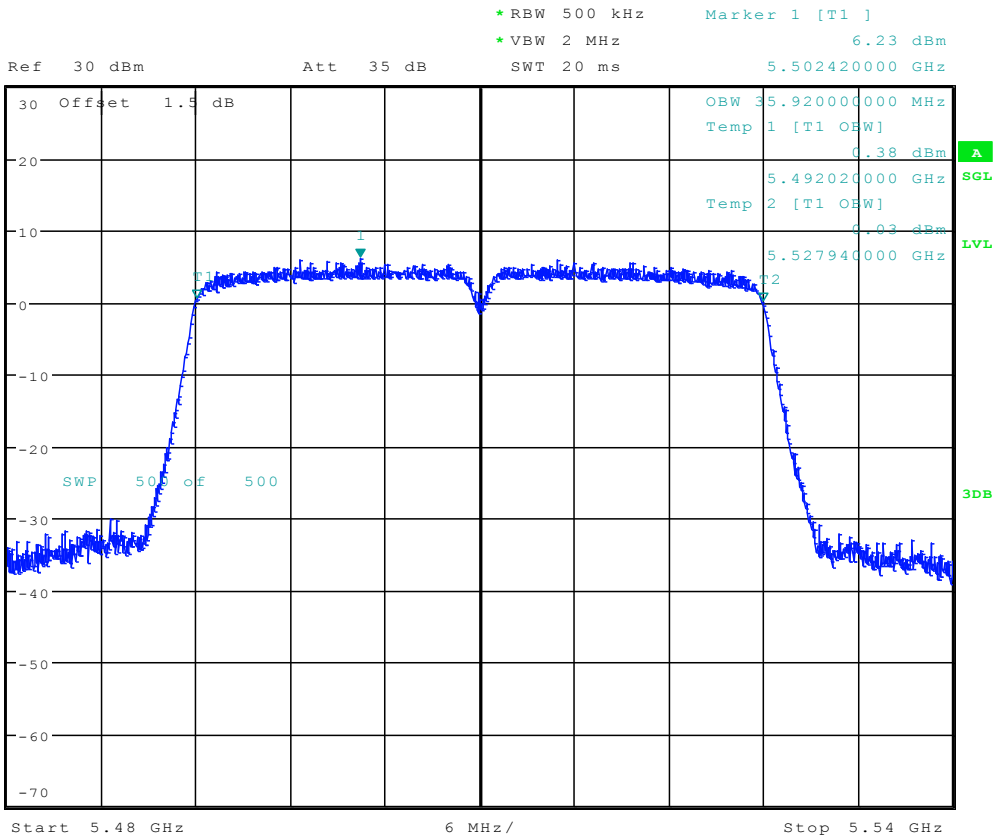
Date: 11.DEC.2017 13:31:48

6.22 11N40_62 ANT 1



Date: 11.DEC.2017 13:37:25

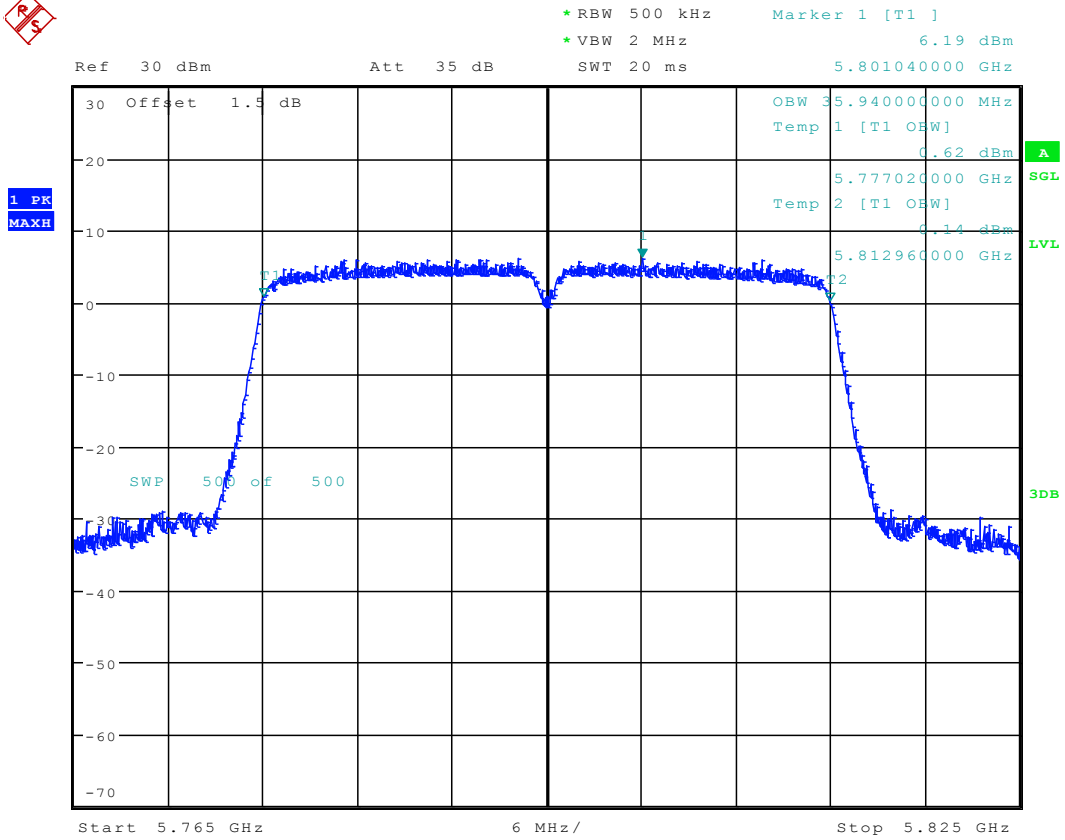
6.23 11N40_102 ANT 1



Date: 11.DEC.2017 13:43:03

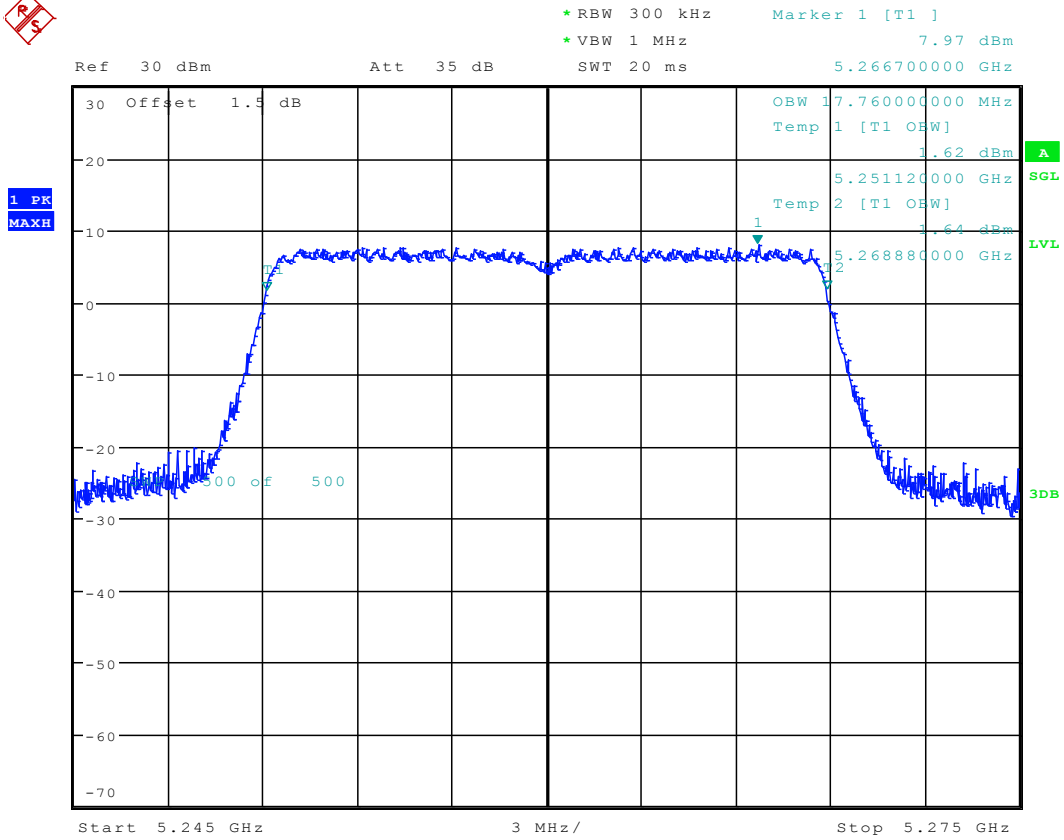


6.27 11N40_159 ANT 1



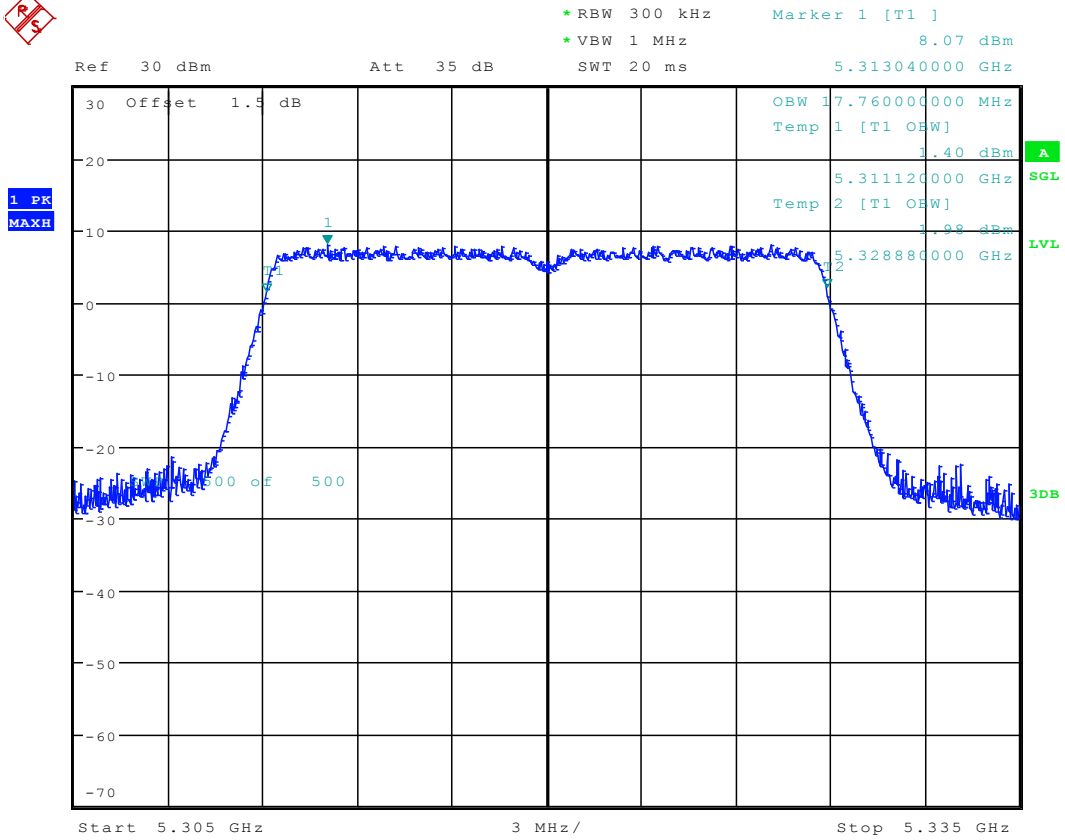
Date: 11.DEC.2017 13:56:59

6.30 11AC20_52 ANT 1



Date: 11.DEC.2017 14:15:10

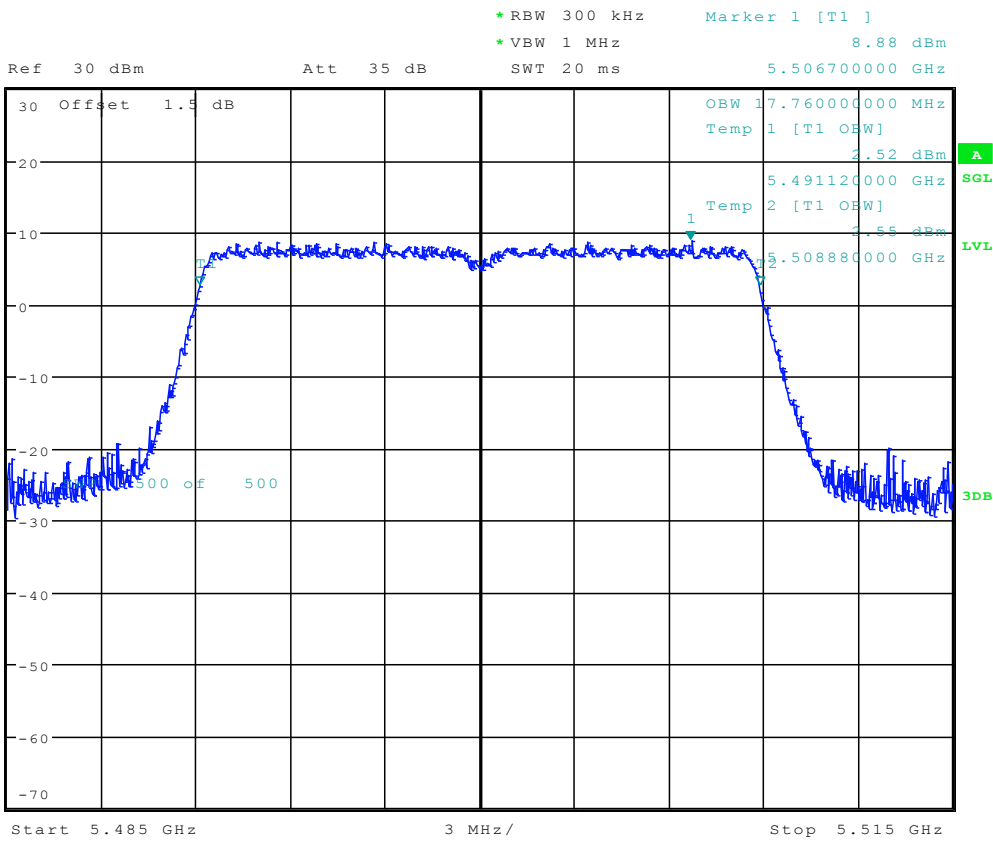
6.31 11AC20_64 ANT 1



Date: 11.DEC.2017 14:19:51

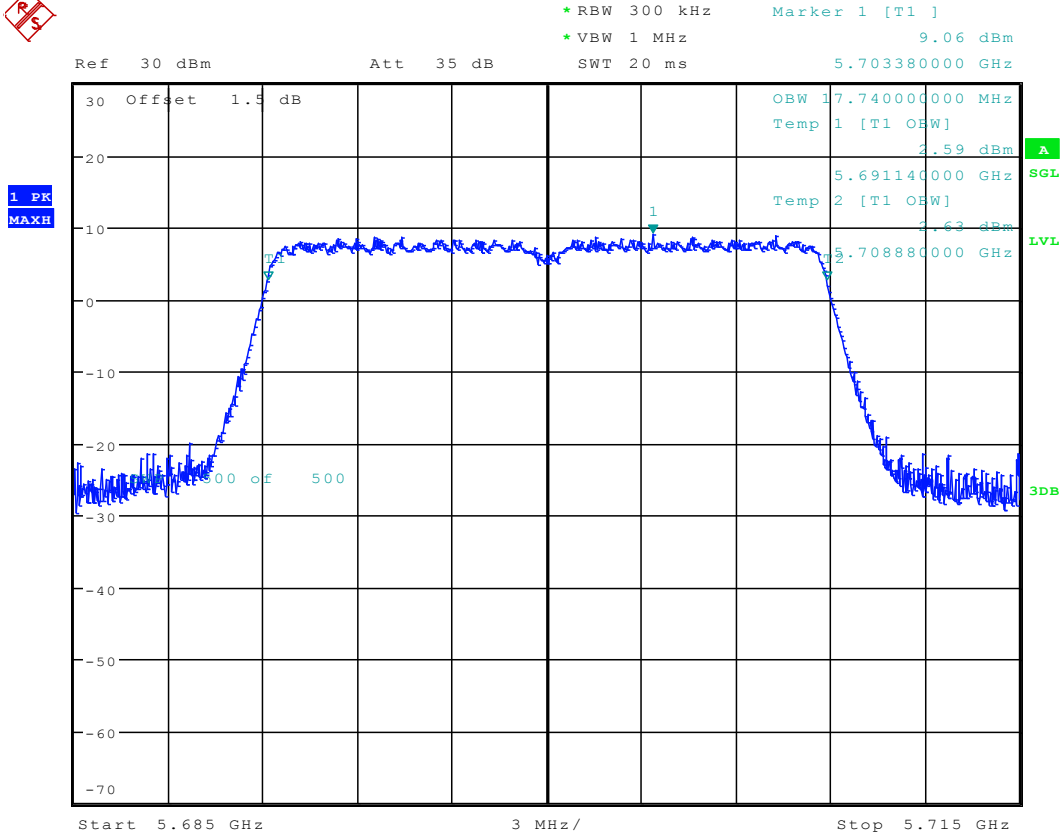


6.32 11AC20_100 ANT 1



Date: 11.DEC.2017 14:24:17

6.33 11AC20_140 ANT 1



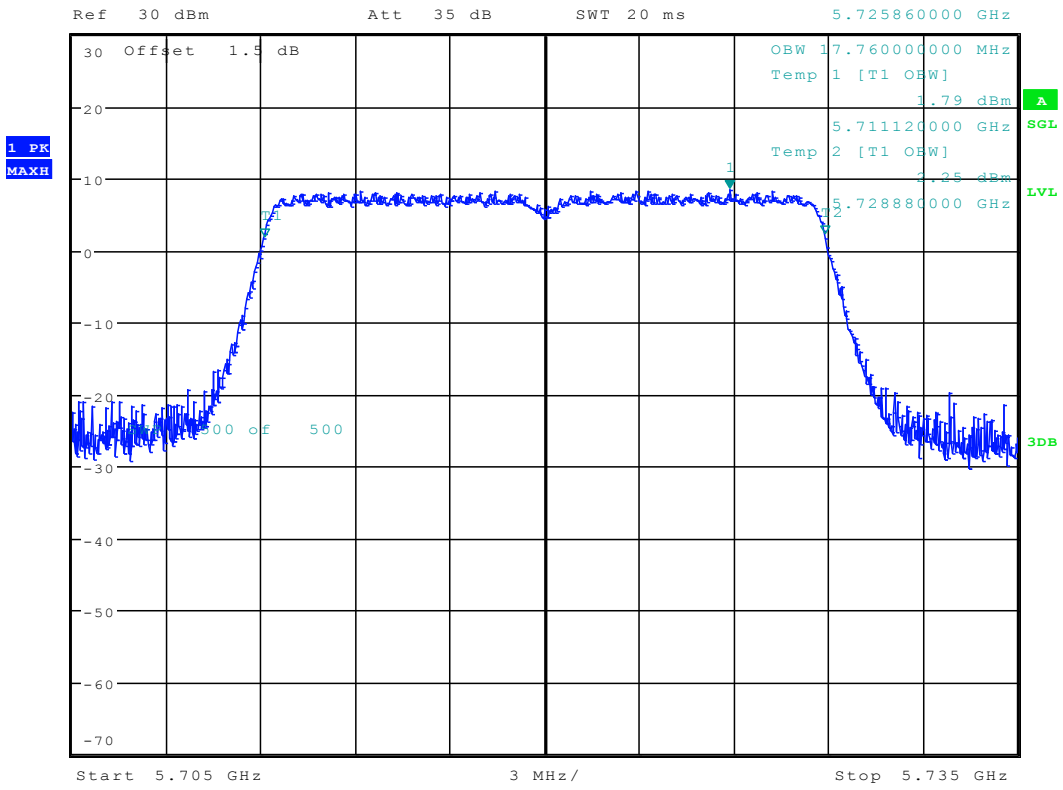
Date: 11.DEC.2017 14:28:33



6.3411AC20_144 ANT 1

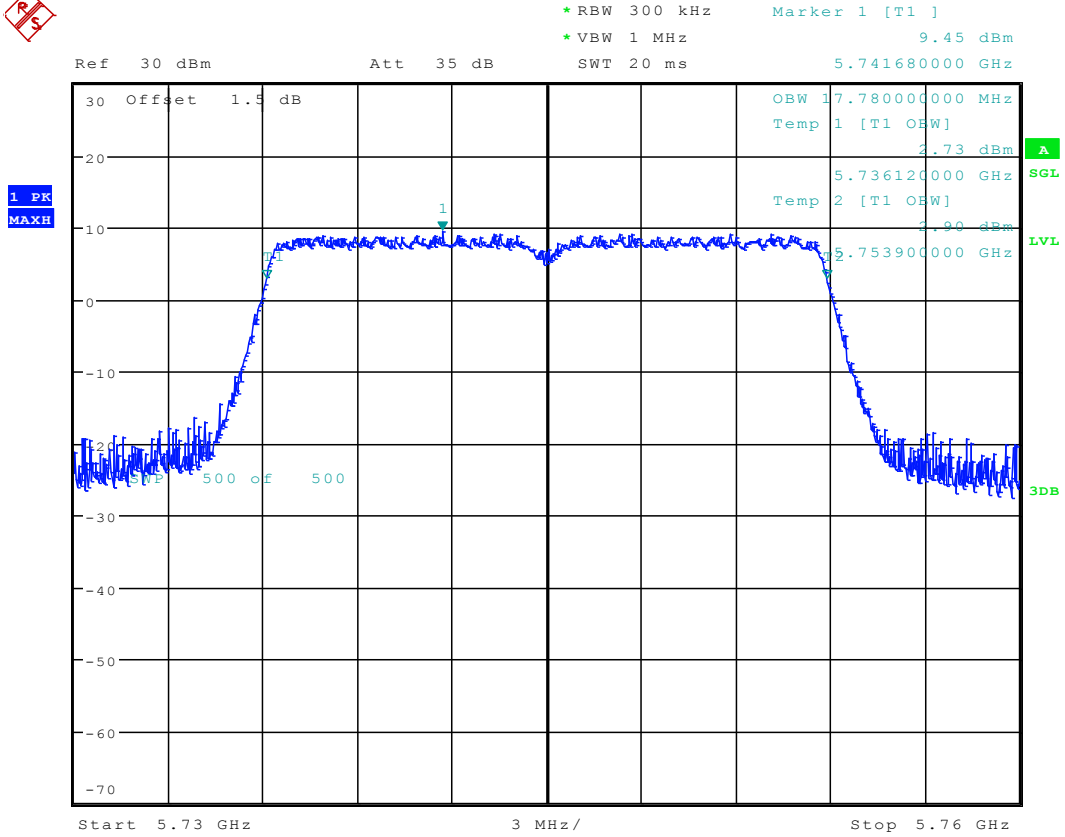


* RBW 300 kHz Marker 1 [T1]
* VBW 1 MHz 8.46 dBm
SWT 20 ms 5.725860000 GHz



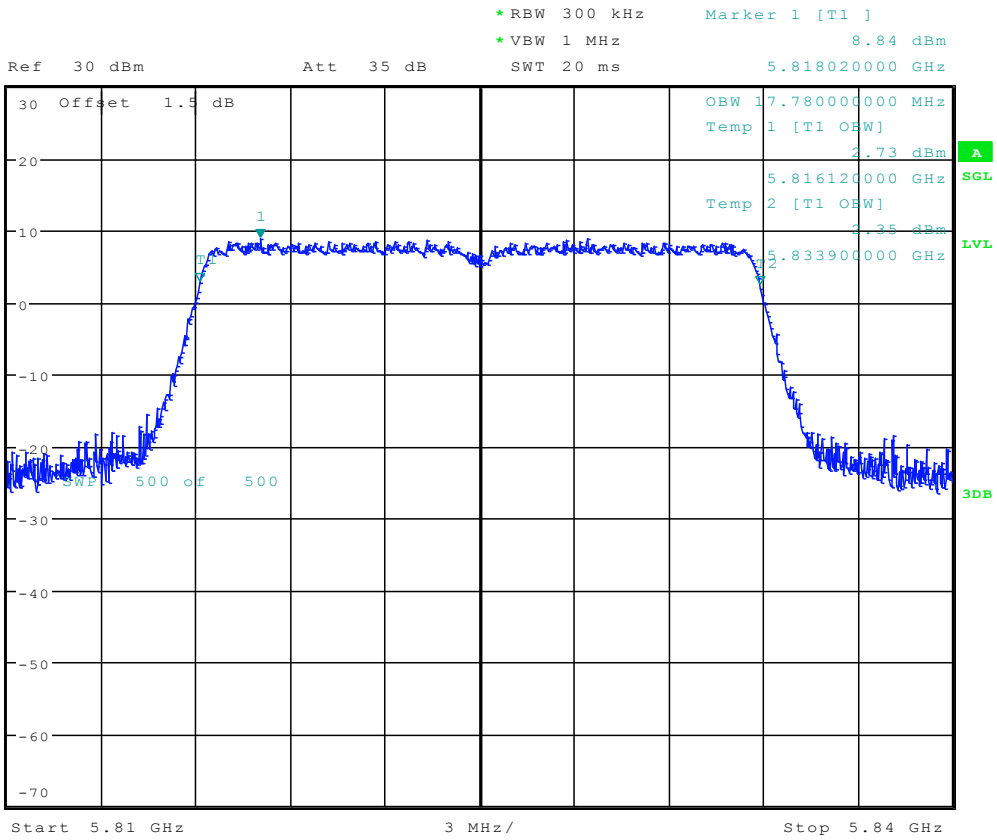
Date: 24.DEC.2017 14:03:56

6.35 11AC20_149 ANT 1



Date: 11.DEC.2017 14:33:31

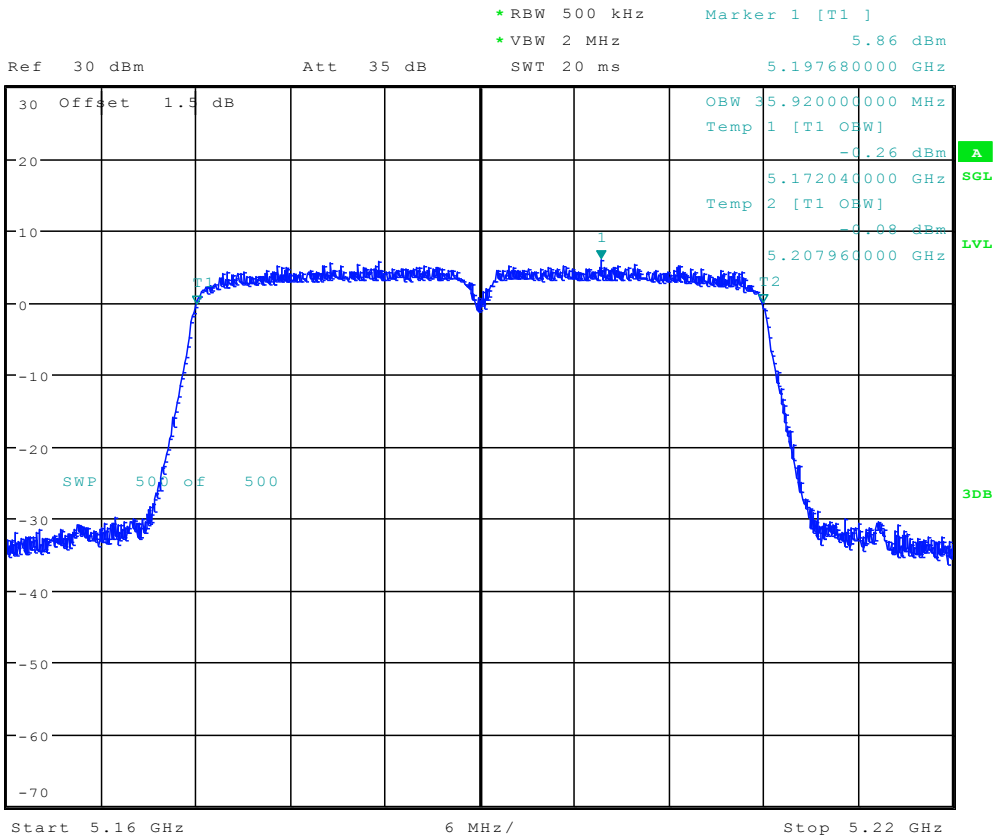
6.36 11AC20_165 ANT 1



Date: 11.DEC.2017 14:38:28



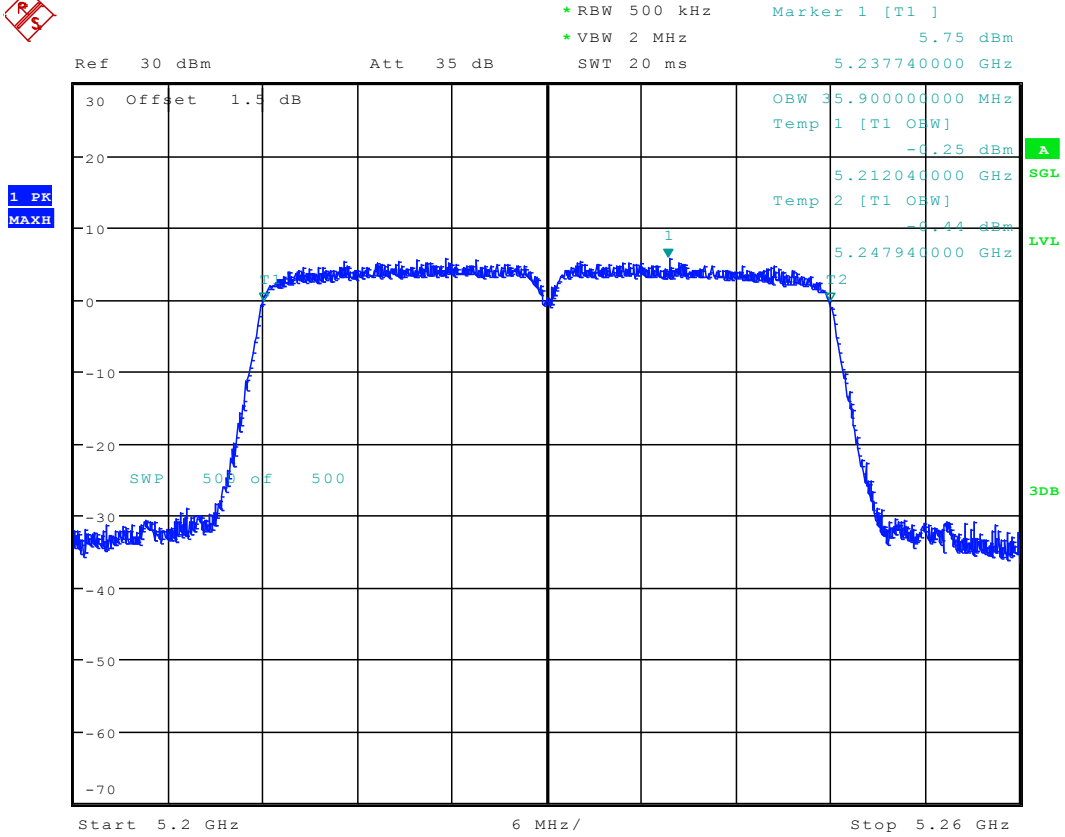
6.37 11AC40_38 ANT 1



Date: 11.DEC.2017 14:45:41

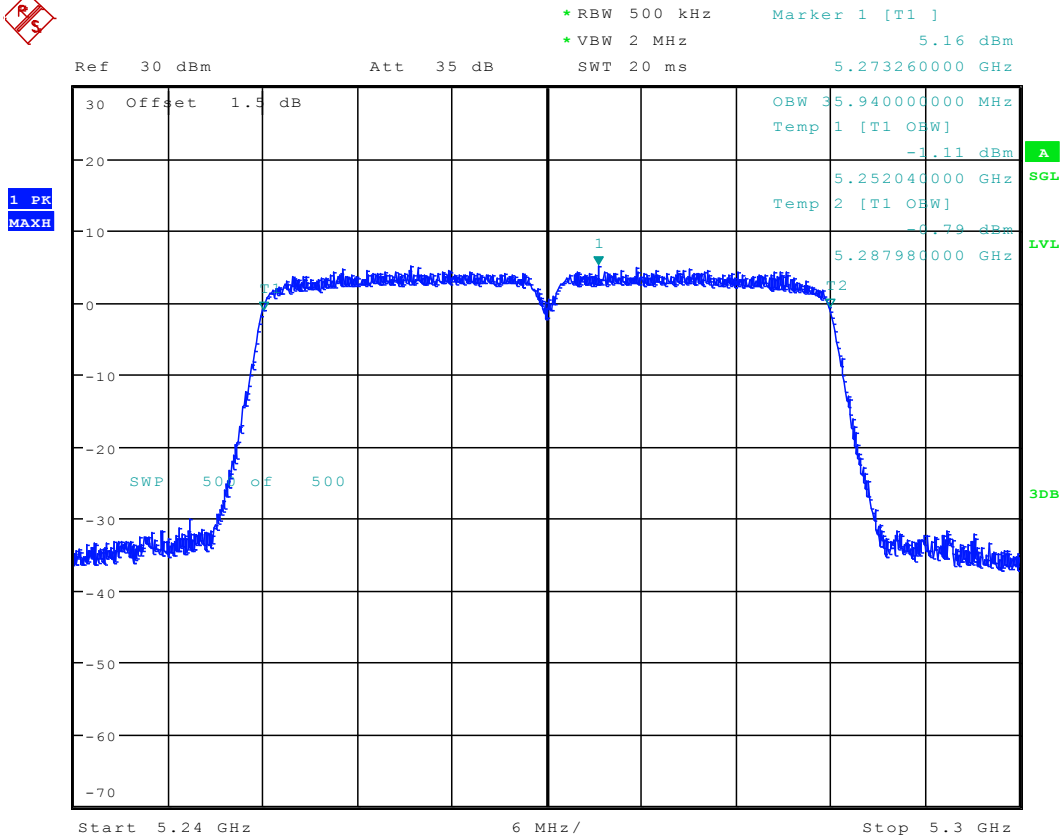


6.38 11AC40_46 ANT 1



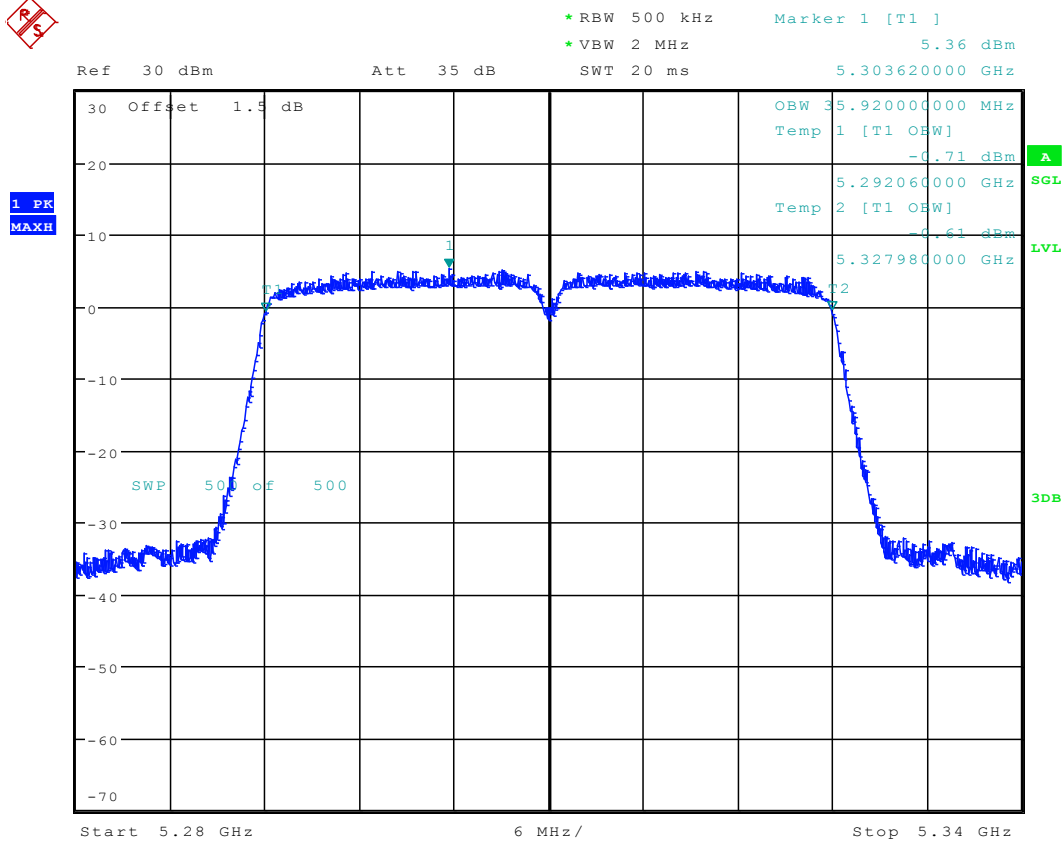
Date: 11.DEC.2017 14:51:06

6.39 11AC40_54 ANT 1

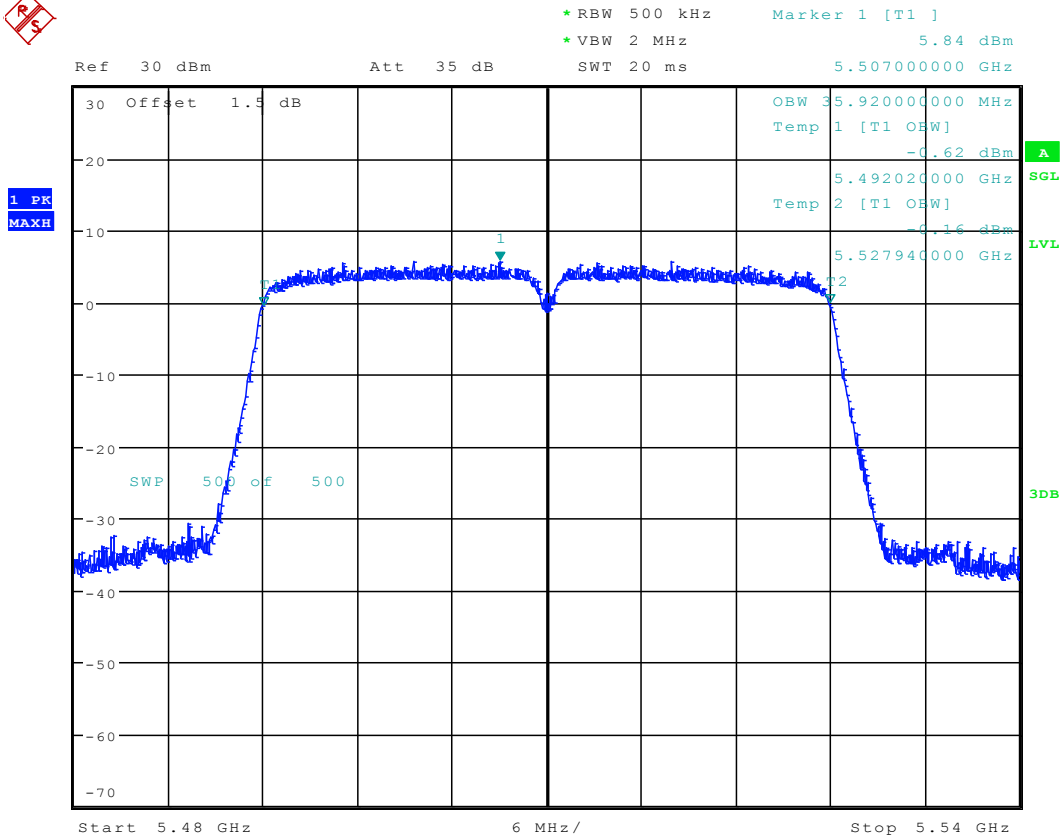


Date: 11.DEC.2017 14:55:47

6.40 11AC40_62 ANT 1

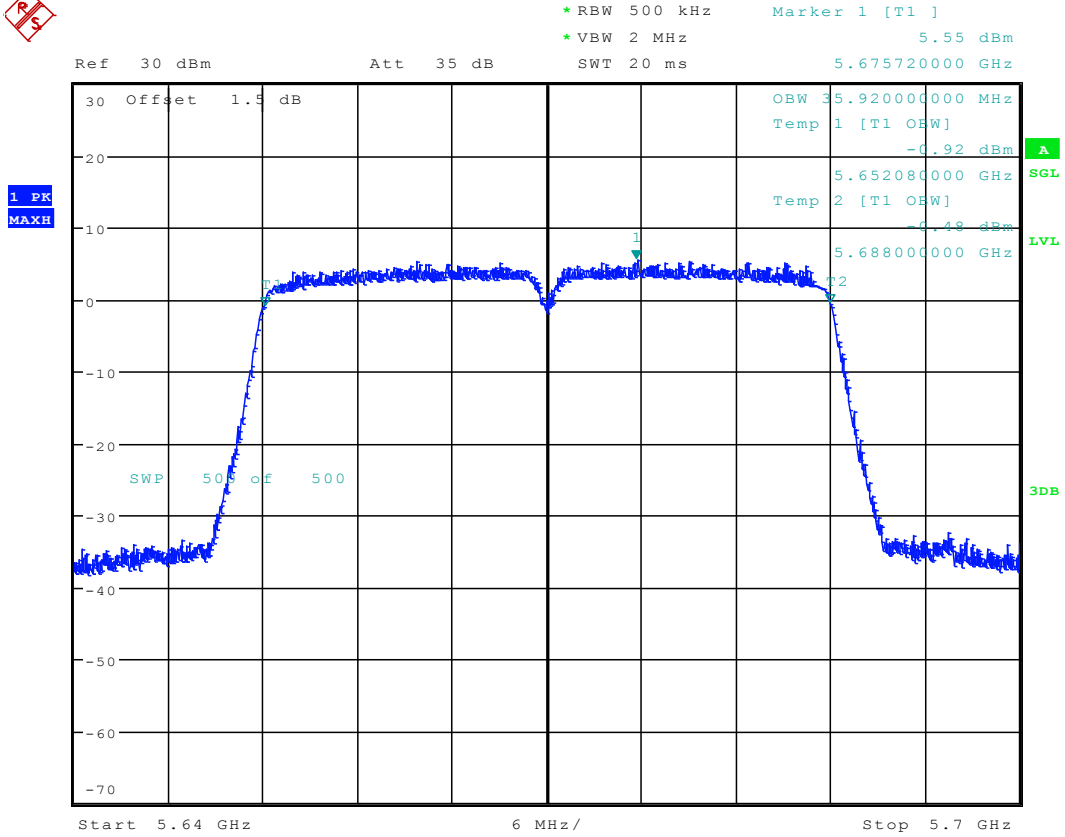


Date: 11.DEC.2017 15:01:49

6.41 11AC40_102 ANT 1

Date: 11.DEC.2017 15:07:23

6.42 11AC40_134 ANT 1



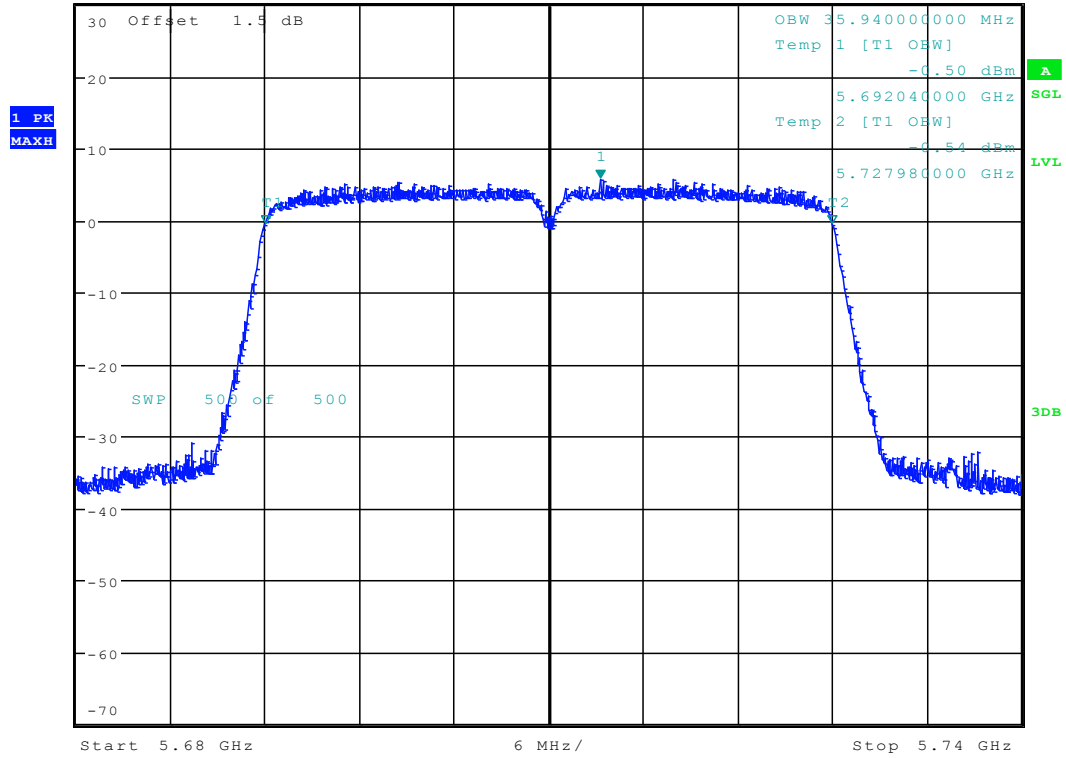
Date: 11.DEC.2017 15:12:18



6.4311AC40_142 ANT 1

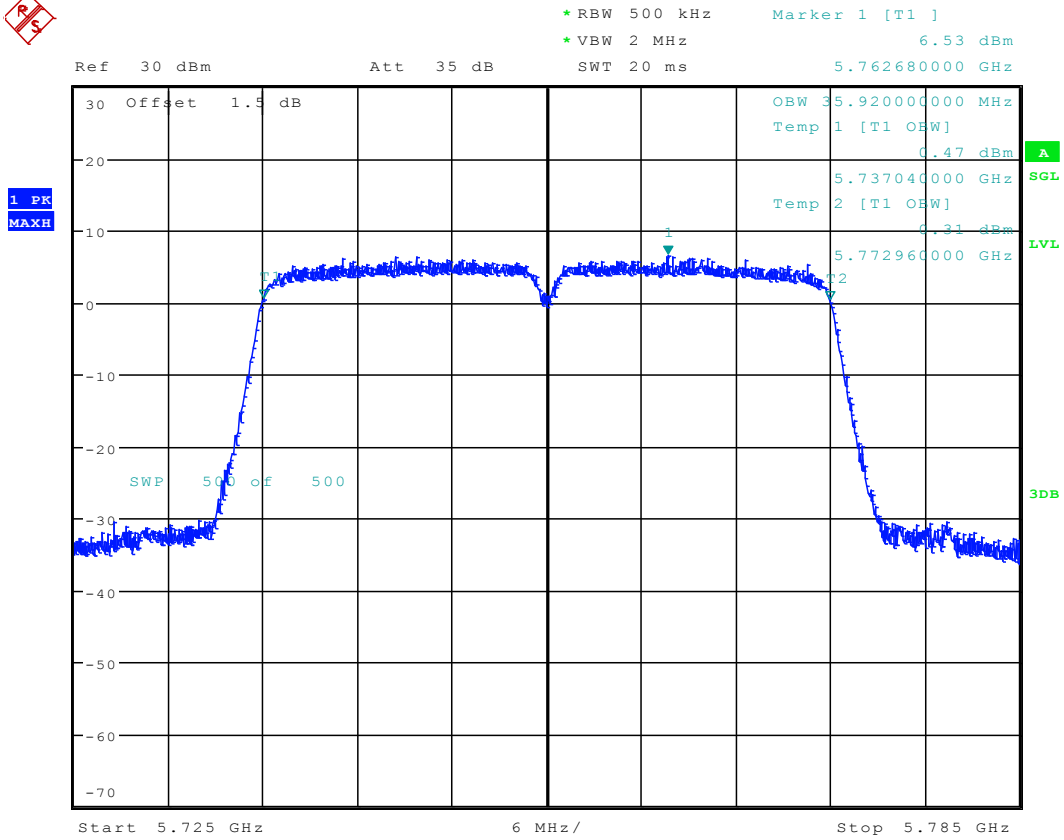


* RBW 500 kHz Marker 1 [T1]
 * VBW 2 MHz 5.83 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.713280000 GHz



Date: 24.DEC.2017 14:11:43

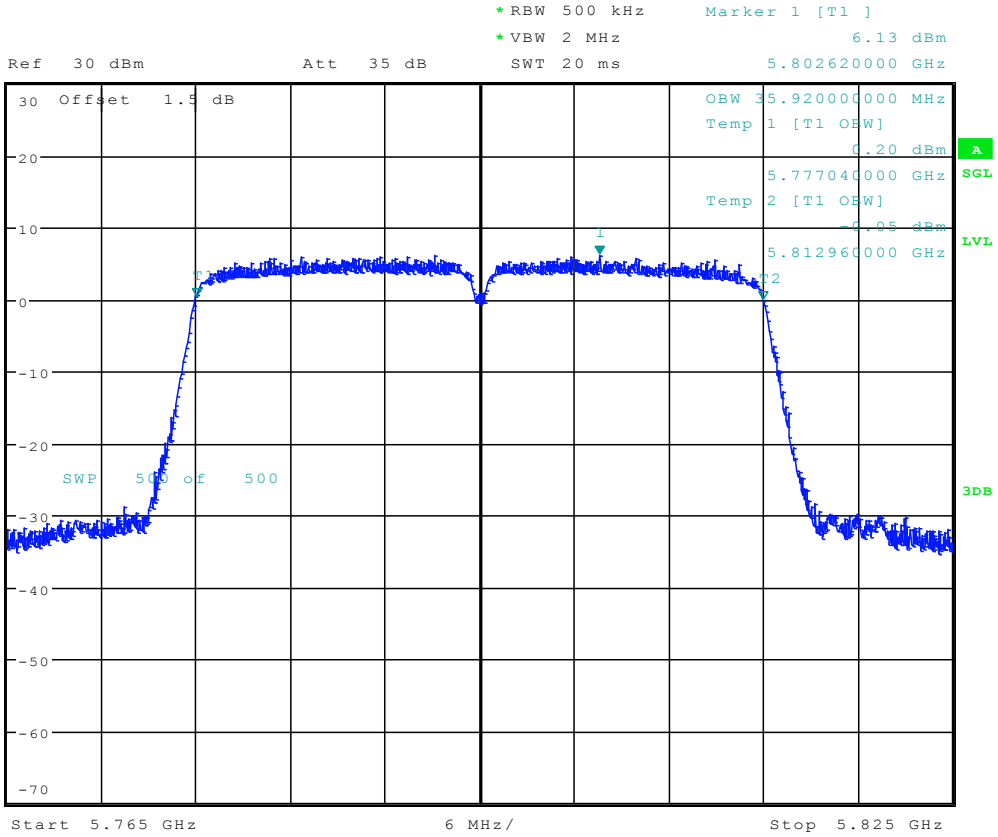
6.44 11AC40_151 ANT 1



Date: 11.DEC.2017 15:17:01



6.45 11AC40_159 ANT 1



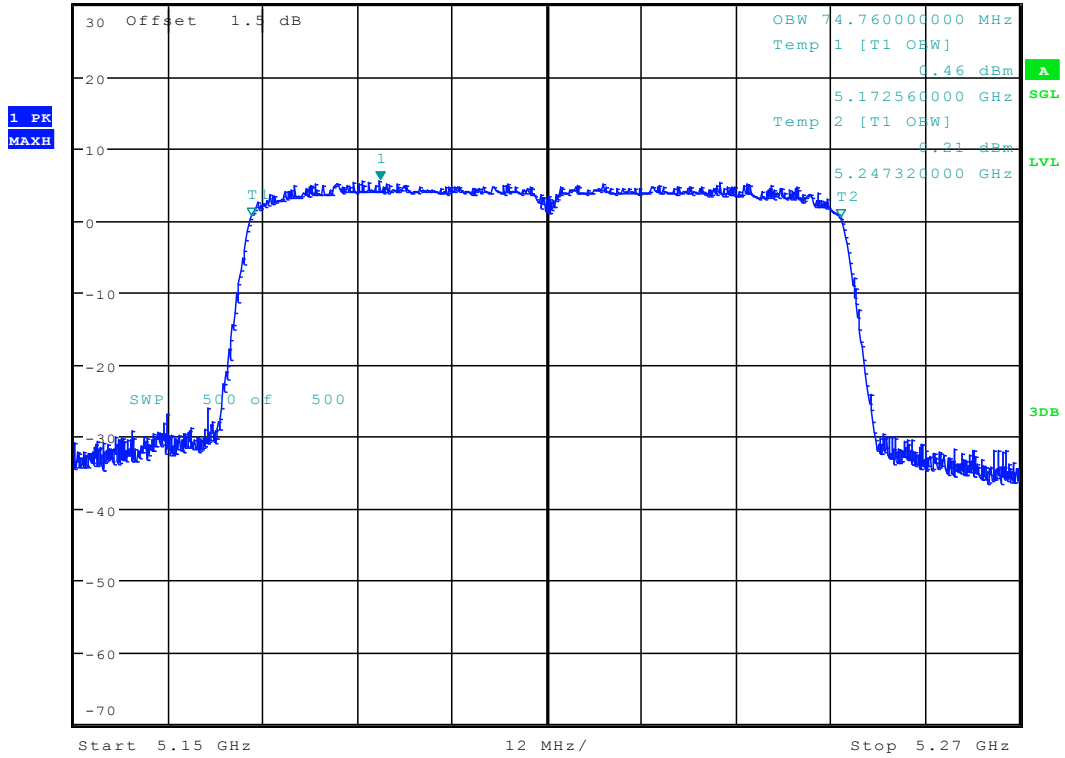
Date: 11.DEC.2017 15:22:07



6.46 11AC80_42 ANT 1



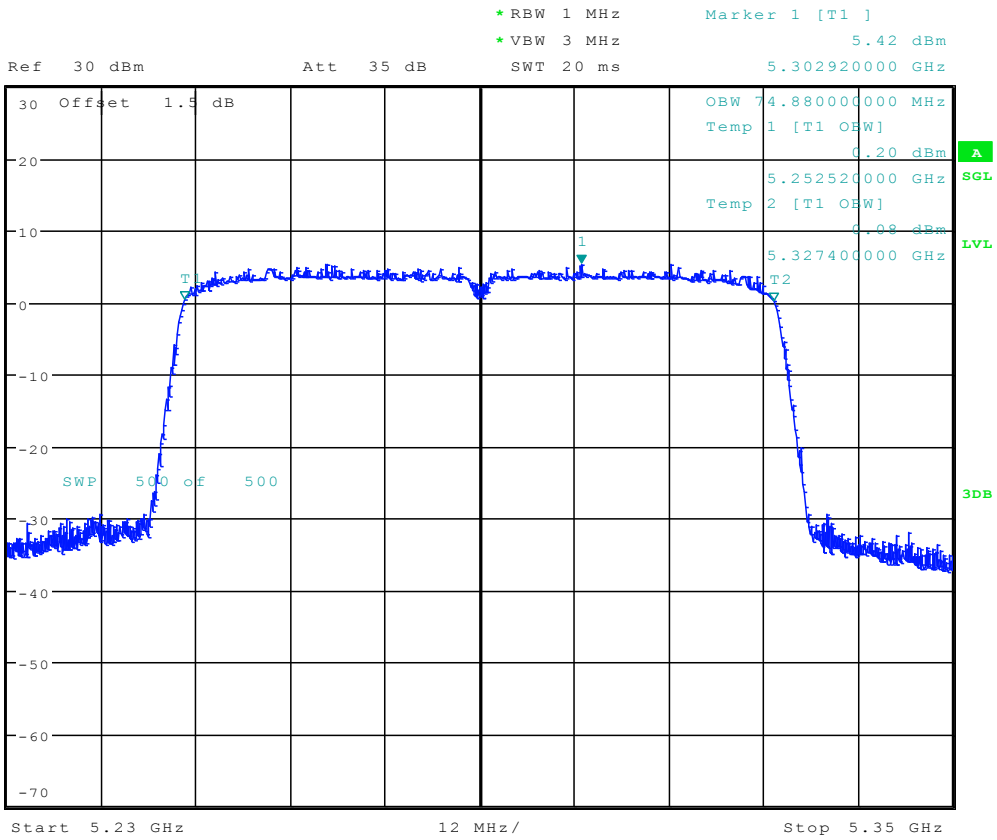
* RBW 1 MHz Marker 1 [T1]
 * VBW 3 MHz 5.58 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.188760000 GHz



Date: 11.DEC.2017 15:36:38

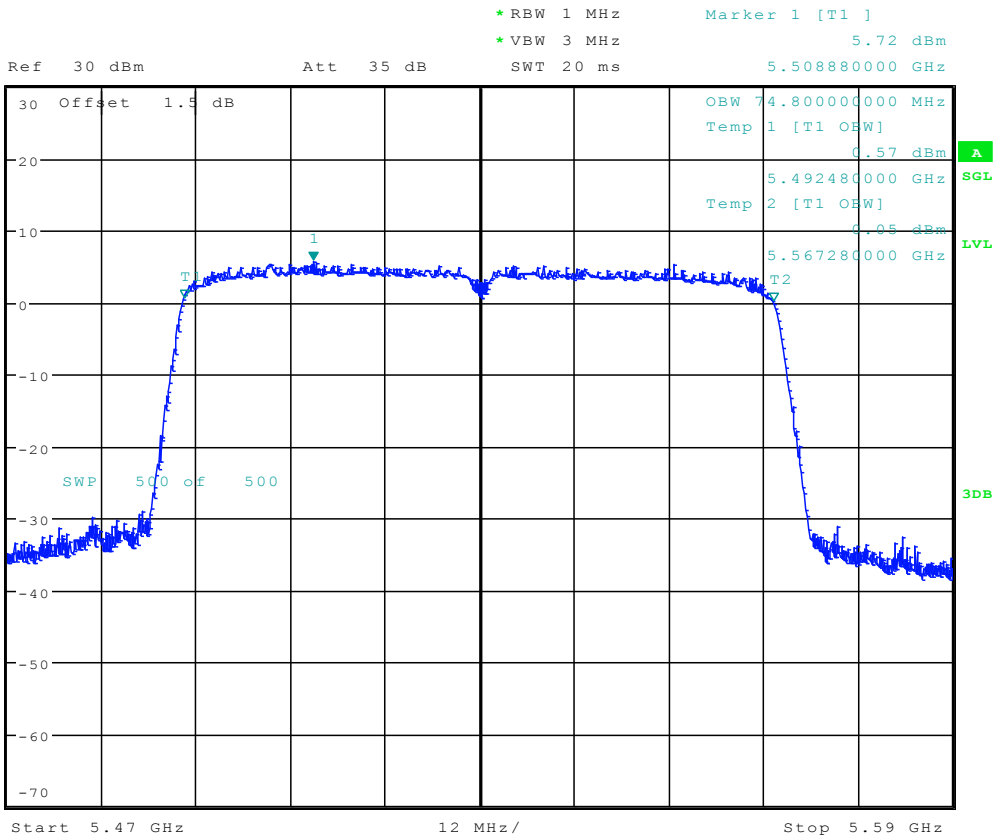


6.47 11AC80_58 ANT 1



Date: 11.DEC.2017 15:42:11

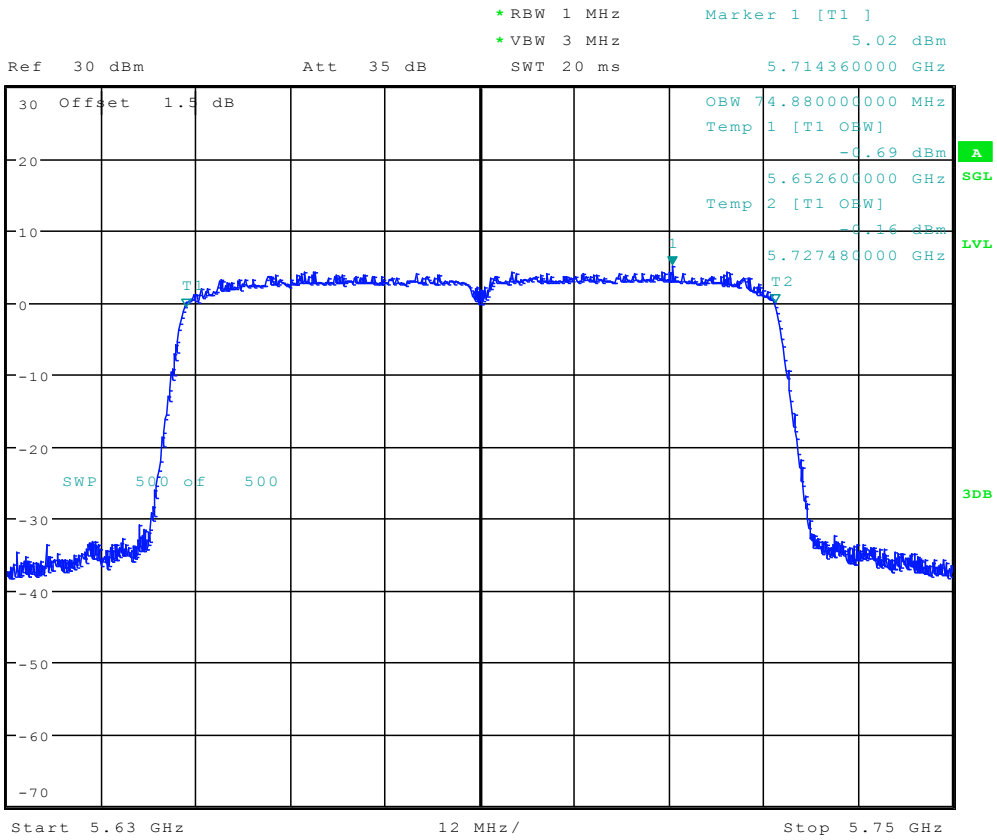
6.48 11AC80_106 ANT 1



Date: 11.DEC.2017 15:46:46



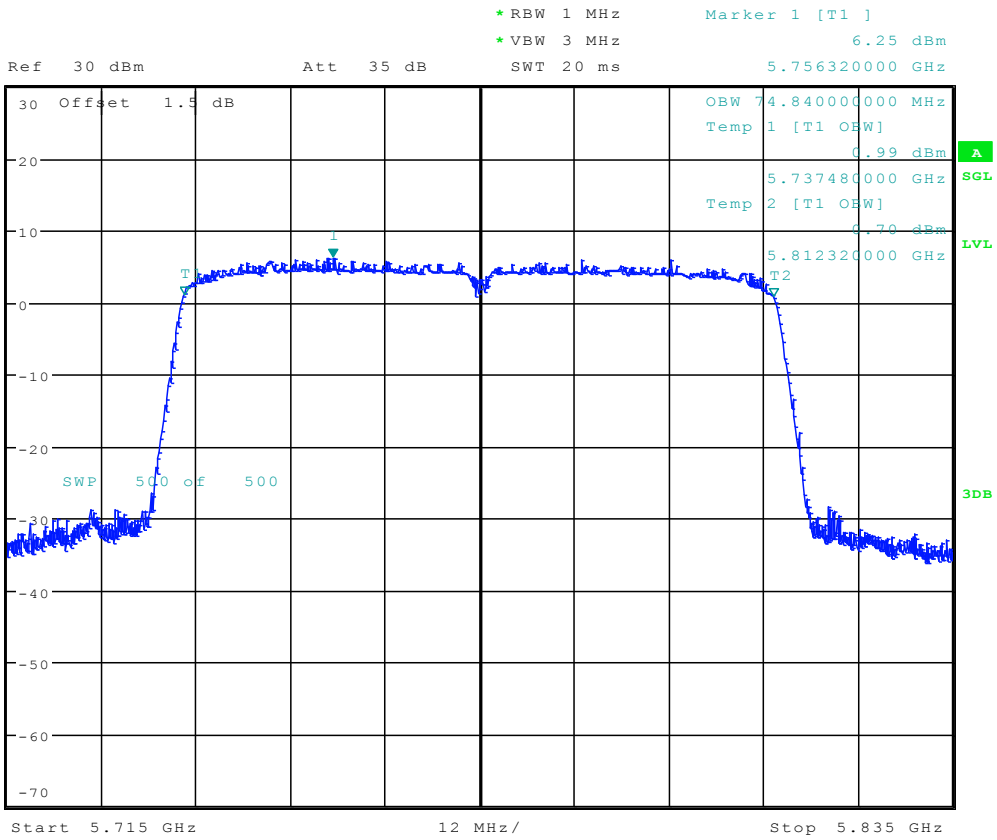
6.4911AC80_138 ANT 1



Date: 24.DEC.2017 14:41:24



6.50 11AC80_155 ANT 1



Date: 11.DEC.2017 15:51:42



Appendix C: Duty Cycle



7 Part I - Test Results

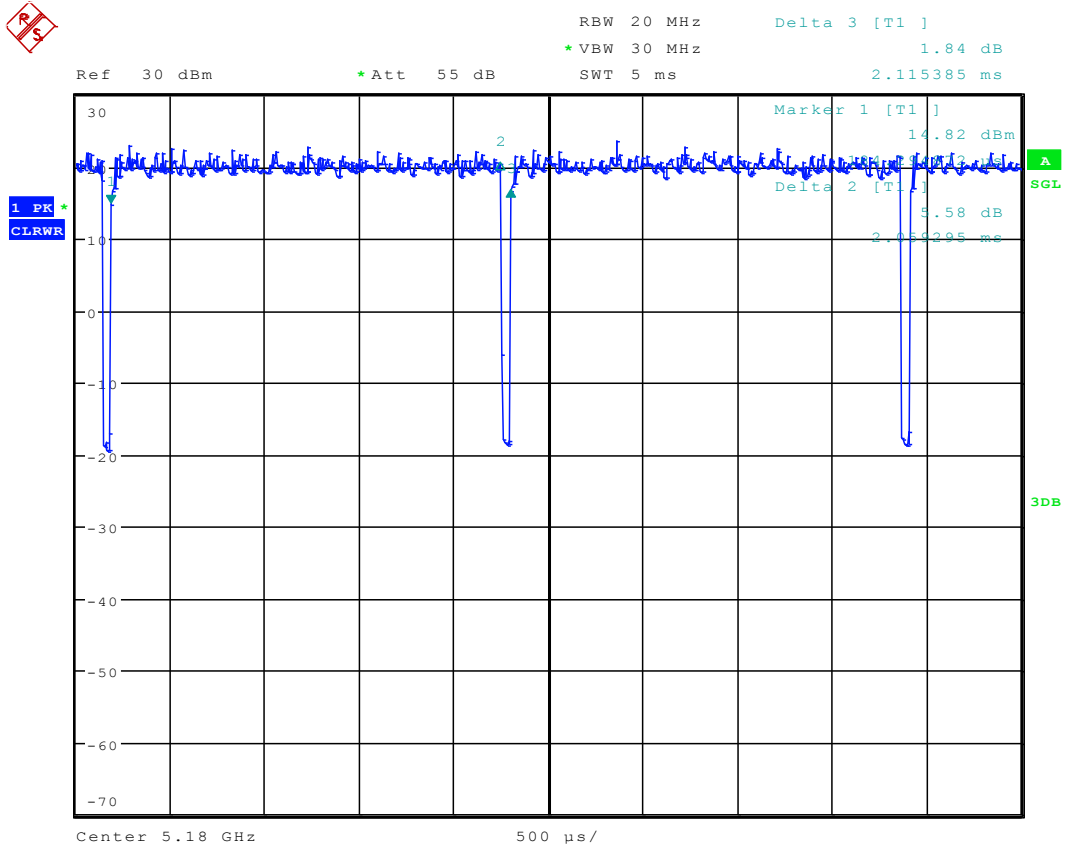
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Duty cycle [%]
11A20	36,	5180	Ant 1	97
	48	5240	Ant 1	97
	52	5260	Ant 1	97
	64	5320	Ant 1	97
	100	5500	Ant 1	97
	140	5700	Ant 1	97
	144	5720	Ant 1	97
	149	5745	Ant 1	97
165	5825	Ant 1	97	
11N20	36	5180	Ant 1	98
	48	5240	Ant 1	98
	52	5260	Ant 1	98
	64	5320	Ant 1	98
	100	5500	Ant 1	98
	140	5700	Ant 1	98
	144	5720	Ant 1	98
	149	5745	Ant 1	98
165	5825	Ant 1	98	
11N40	38	5190	Ant 1	96
	46	5230	Ant 1	96
	54	5270	Ant 1	96
	62	5310	Ant 1	96
	102	5510	Ant 1	96
	134	5670	Ant 1	96
	142	5710	Ant 1	96
	151	5755	Ant 1	96
159	5795	Ant 1	96	
11AC20	36	5180	Ant 1	98
	48	5240	Ant 1	98
	52	5260	Ant 1	98
	64	5320	Ant 1	98
	100	5500	Ant 1	98
	140	5700	Ant 1	98
	144	5720	Ant 1	98



	149	5745	Ant 1	98
	165	5825	Ant 1	98
11AC40	38	5190	Ant 1	95
	46	5230	Ant 1	95
	54	5270	Ant 1	95
	62	5310	Ant 1	95
	102	5510	Ant 1	95
	134	5670	Ant 1	95
	142	5710	Ant 1	95
	151	5755	Ant 1	95
	159	5795	Ant 1	95
11AC80	42	5210	Ant 1	95
	58	5290	Ant 1	95
	106	5530	Ant 1	95
	138	5690	Ant 1	95
	155	5775	Ant 1	95

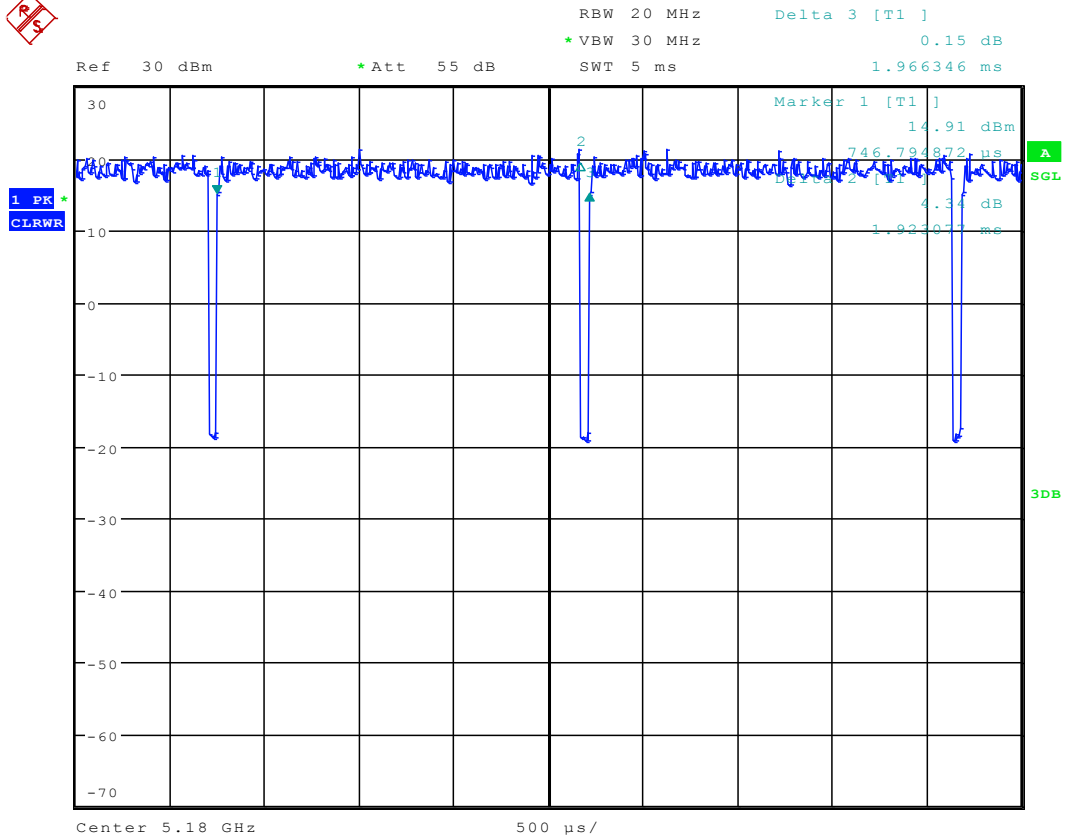
8 Test Plot

8.1 11A20



Date: 11.DEC.2017 09:08:46

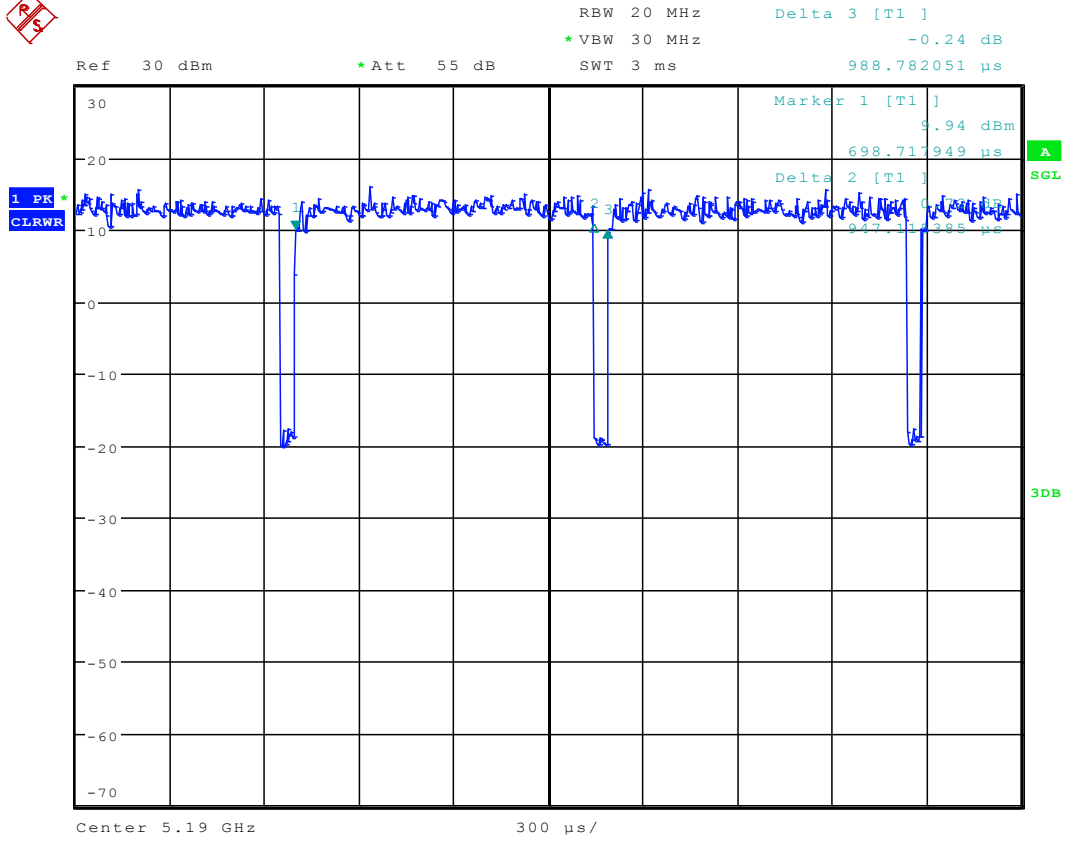
8.2 11n20



Date: 11.DEC.2017 09:29:05

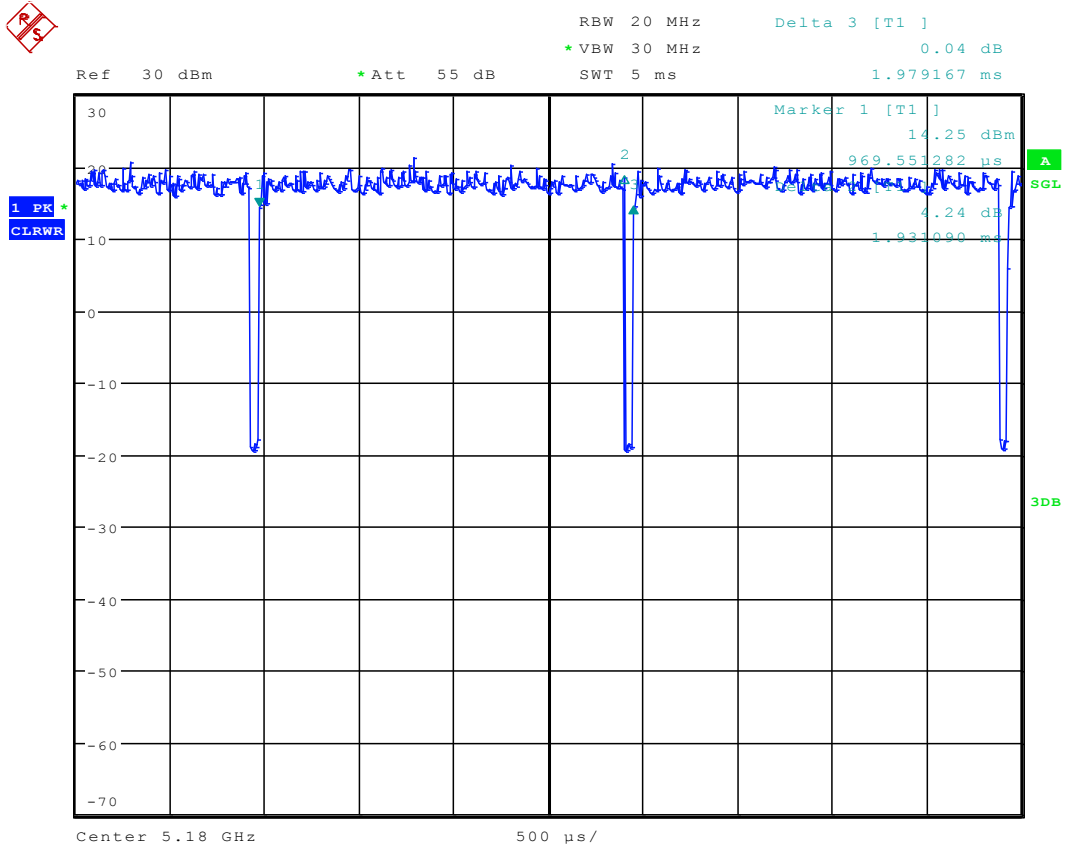


8.3 11n40



Date: 11.DEC.2017 09:41:00

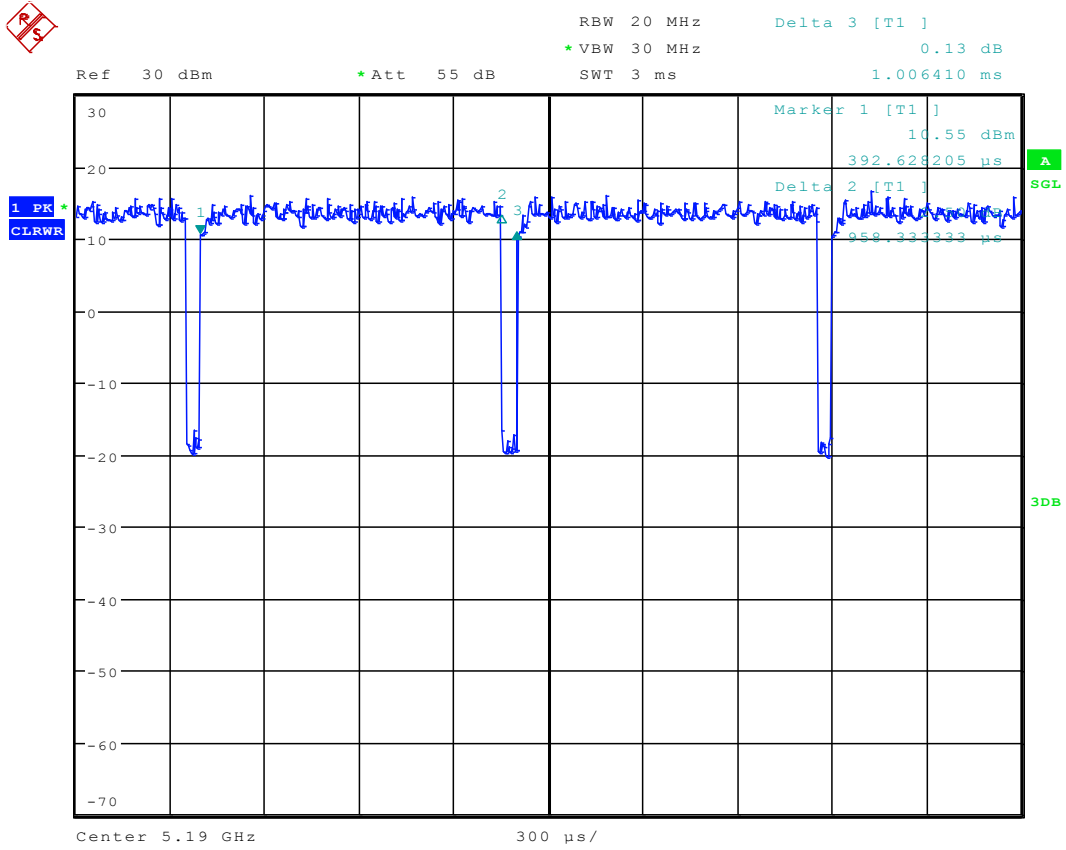
8.4 11ac20



Date: 11.DEC.2017 09:20:25

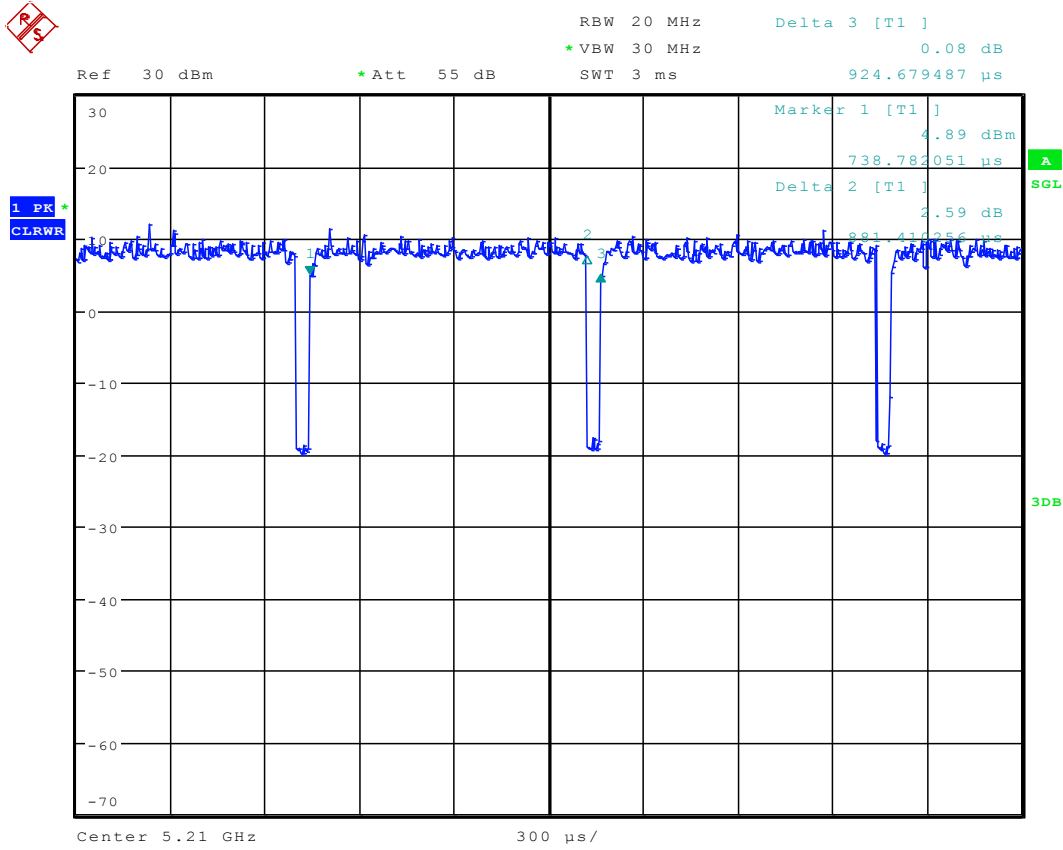


8.5 11ac40



Date: 11.DEC.2017 09:22:37

8.6 11ac80



Date: 11.DEC.2017 09:24:46



Appendix D: Maximum Conducted Output Power



9 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A20	36	5180	ANT 1	17.26	PASS
	48	5240	ANT 1	17.26	PASS
	52	5260	ANT 1	16.6	PASS
	64	5320	ANT 1	16.87	PASS
	100	5500	ANT 1	17.09	PASS
	140	5700	ANT 1	17.21	PASS
	144	5720	ANT 1	17.94	PASS
	149	5745	ANT 1	17.66	PASS
	165	5825	ANT 1	17.37	PASS
11N20	36	5180	ANT 1	16.13	PASS
	48	5240	ANT 1	16.11	PASS
	52	5260	ANT 1	15.56	PASS
	64	5320	ANT 1	15.7	PASS
	100	5500	ANT 1	16.32	PASS
	140	5700	ANT 1	16.3	PASS
	144	5720	ANT 1	16.69	PASS
	149	5745	ANT 1	16.91	PASS
	165	5825	ANT 1	16.46	PASS
11N40	38	5190	ANT 1	13.71	PASS
	46	5230	ANT 1	13.28	PASS
	54	5270	ANT 1	13.09	PASS
	62	5310	ANT 1	13.24	PASS
	102	5510	ANT 1	13.8	PASS
	134	5670	ANT 1	13.28	PASS
	142	5710	ANT 1	14.06	PASS
	151	5755	ANT 1	14.33	PASS
	159	5795	ANT 1	14.13	PASS
11AC20	36	5180	ANT 1	16.07	PASS
	48	5240	ANT 1	16.03	PASS
	52	5260	ANT 1	15.5	PASS
	64	5320	ANT 1	15.65	PASS
	100	5500	ANT 1	16.27	PASS
	140	5700	ANT 1	16.19	PASS
	144	5720	ANT 1	15.98	PASS
	149	5745	ANT 1	16.77	PASS



	165	5825	ANT 1	16.32	PASS
11AC40	38	5190	ANT 1	13.65	PASS
	46	5230	ANT 1	13.63	PASS
	54	5270	ANT 1	13.01	PASS
	62	5310	ANT 1	13.17	PASS
	102	5510	ANT 1	13.72	PASS
	134	5670	ANT 1	13.23	PASS
	142	5710	ANT 1	13.55	PASS
	151	5755	ANT 1	14.25	PASS
	159	5795	ANT 1	14.08	PASS
11AC80	42	5210	ANT 1	13.19	PASS
	58	5290	ANT 1	12.78	PASS
	106	5530	ANT 1	13.09	PASS
	138	5690	ANT 1	12.16	PASS
	155	5775	ANT 1	13.47	PASS



Appendix E: Peak Power Spectral Density Level



10 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A20	36	5180	ANT 1	7.03	PASS
	48	5240	ANT 1	7.11	PASS
	52	5260	ANT 1	6.39	PASS
	64	5320	ANT 1	6.57	PASS
	100	5500	ANT 1	6.9	PASS
	140	5700	ANT 1	6.97	PASS
	144	5720	ANT 1	7.57	PASS
	149	5745	ANT 1	5.21	PASS
	165	5825	ANT 1	5.07	PASS
11N20	36	5180	ANT 1	5.92	PASS
	48	5240	ANT 1	5.62	PASS
	52	5260	ANT 1	5.28	PASS
	64	5320	ANT 1	5.33	PASS
	100	5500	ANT 1	5.92	PASS
	140	5700	ANT 1	6.06	PASS
	144	5720	ANT 1	6.16	PASS
	149	5745	ANT 1	4.85	PASS
	165	5825	ANT 1	4.45	PASS
11N40	38	5190	ANT 1	0.56	PASS
	46	5230	ANT 1	0.69	PASS
	54	5270	ANT 1	0.11	PASS
	62	5310	ANT 1	0.33	PASS
	102	5510	ANT 1	0.83	PASS
	134	5670	ANT 1	0.45	PASS
	142	5710	ANT 1	1.02	PASS
	151	5755	ANT 1	-0.69	PASS
	159	5795	ANT 1	-0.64	PASS
11AC20	36	5180	ANT 1	5.6	PASS
	48	5240	ANT 1	5.67	PASS
	52	5260	ANT 1	4.98	PASS
	64	5320	ANT 1	5.18	PASS
	100	5500	ANT 1	5.81	PASS
	140	5700	ANT 1	5.99	PASS
	144	5720	ANT 1	5.32	PASS
	149	5745	ANT 1	4.37	PASS
	165	5825	ANT 1	4.08	PASS

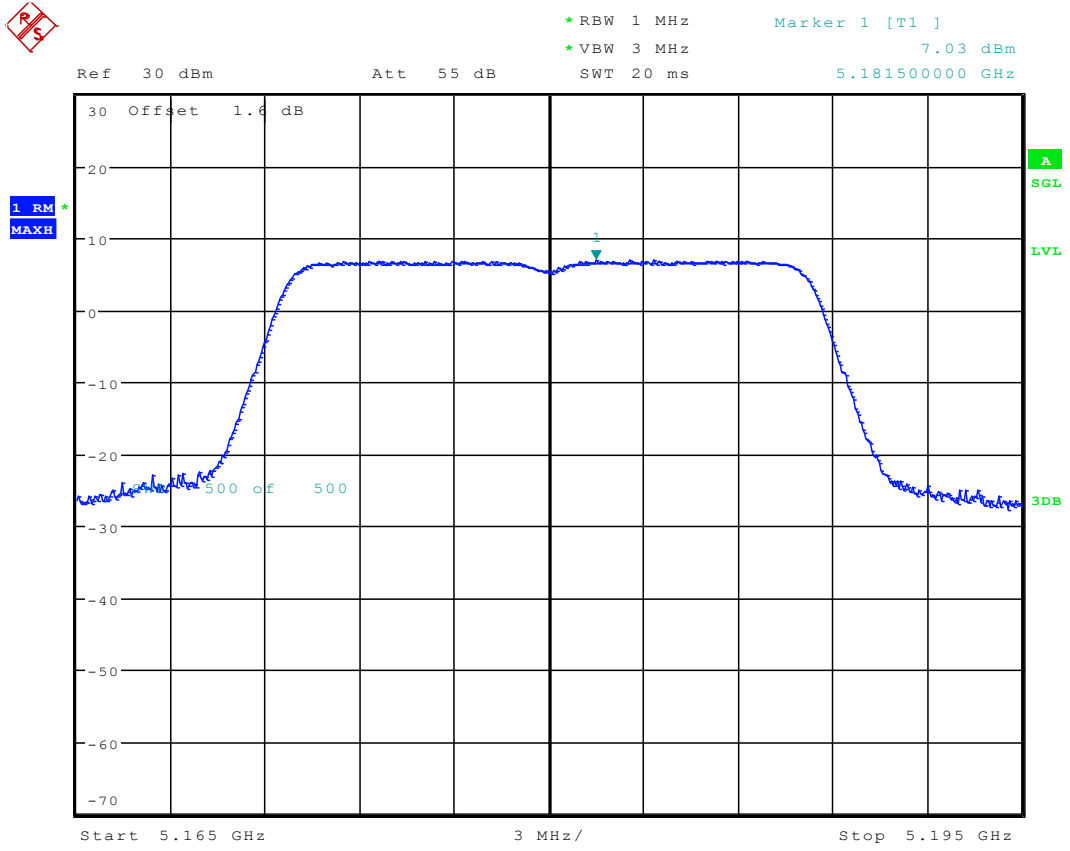


11AC40	38	5190	ANT 1	0.49	PASS
	46	5230	ANT 1	0.67	PASS
	54	5270	ANT 1	0.03	PASS
	62	5310	ANT 1	0.19	PASS
	102	5510	ANT 1	0.63	PASS
	134	5670	ANT 1	0.34	PASS
	142	5710	ANT 1	0.43	PASS
	151	5755	ANT 1	-0.47	PASS
	159	5795	ANT 1	-0.63	PASS
11AC80	42	5210	ANT 1	-2.83	PASS
	58	5290	ANT 1	-3.05	PASS
	106	5530	ANT 1	-2.82	PASS
	138	5690	ANT 1	-3.96	PASS
	155	5775	ANT 1	-4.22	PASS



11 Test Plot

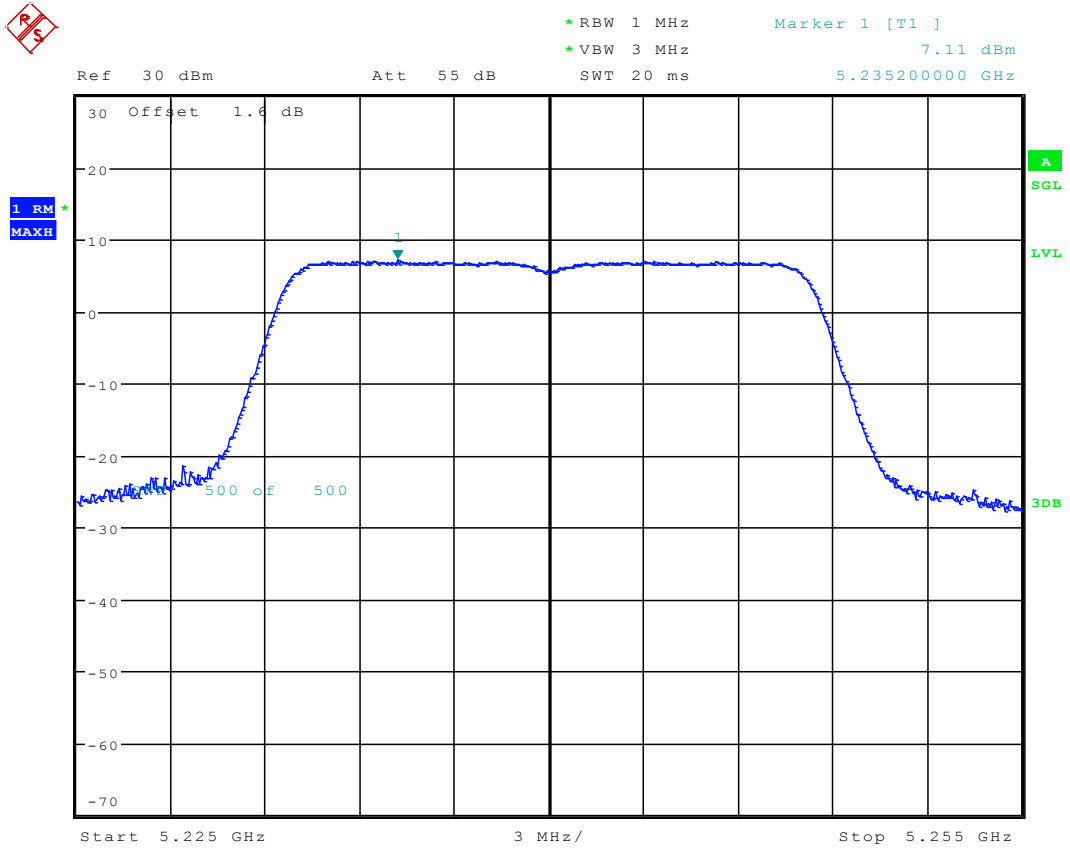
11.1 11A20_36 ANT 1



Date: 11.DEC.2017 09:44:00



11.2 11A20_48 ANT 1



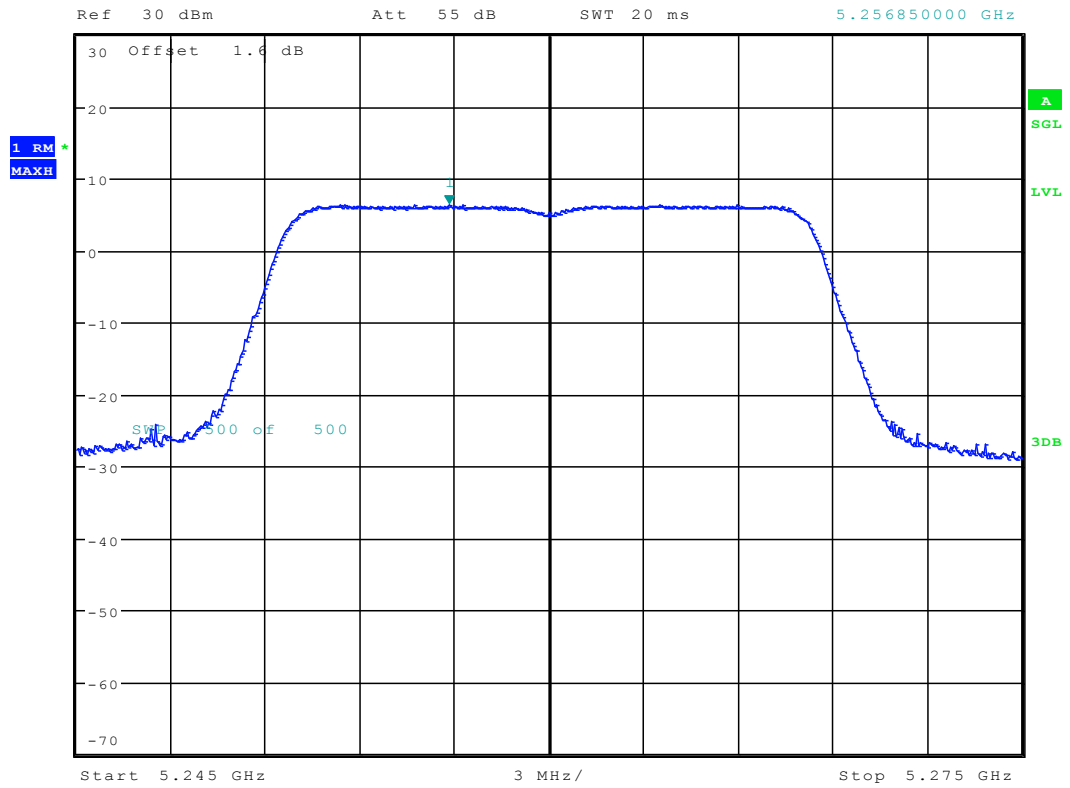
Date: 11.DEC.2017 09:52:12



11.3 11A20_52 ANT 1



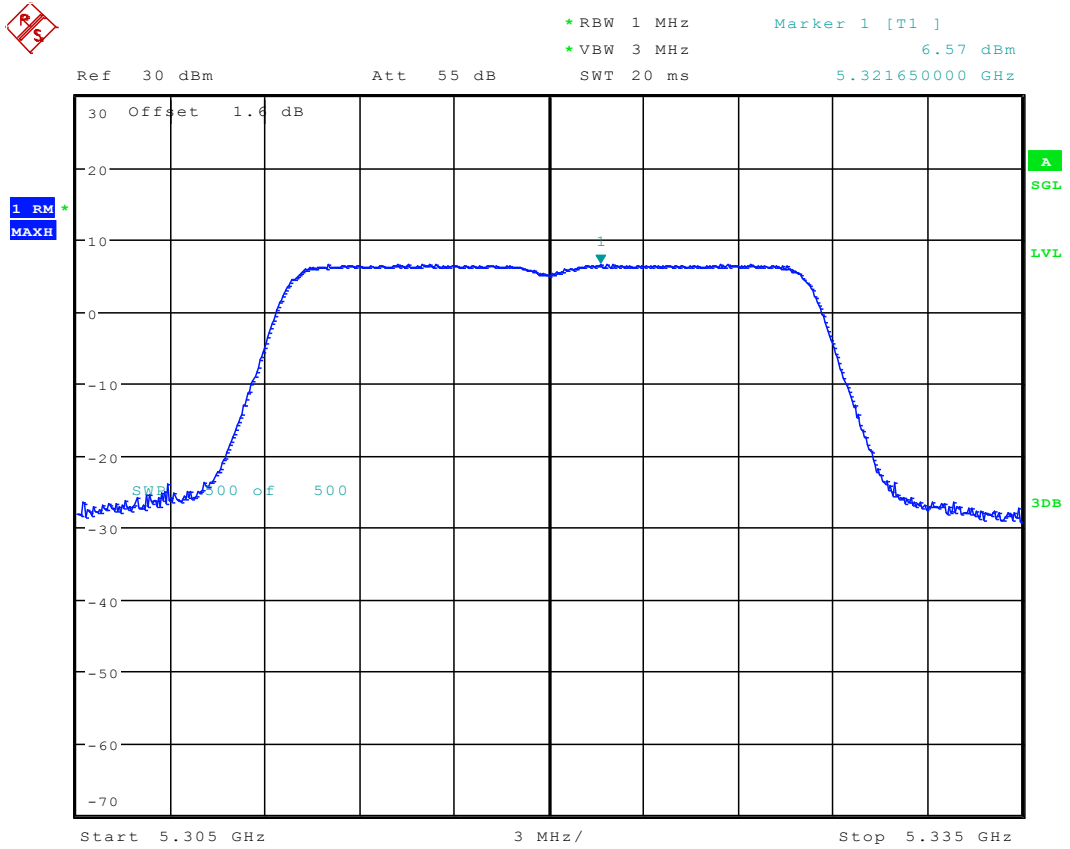
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.39 dBm
SWT 20 ms 5.256850000 GHz



Date: 11.DEC.2017 09:57:22



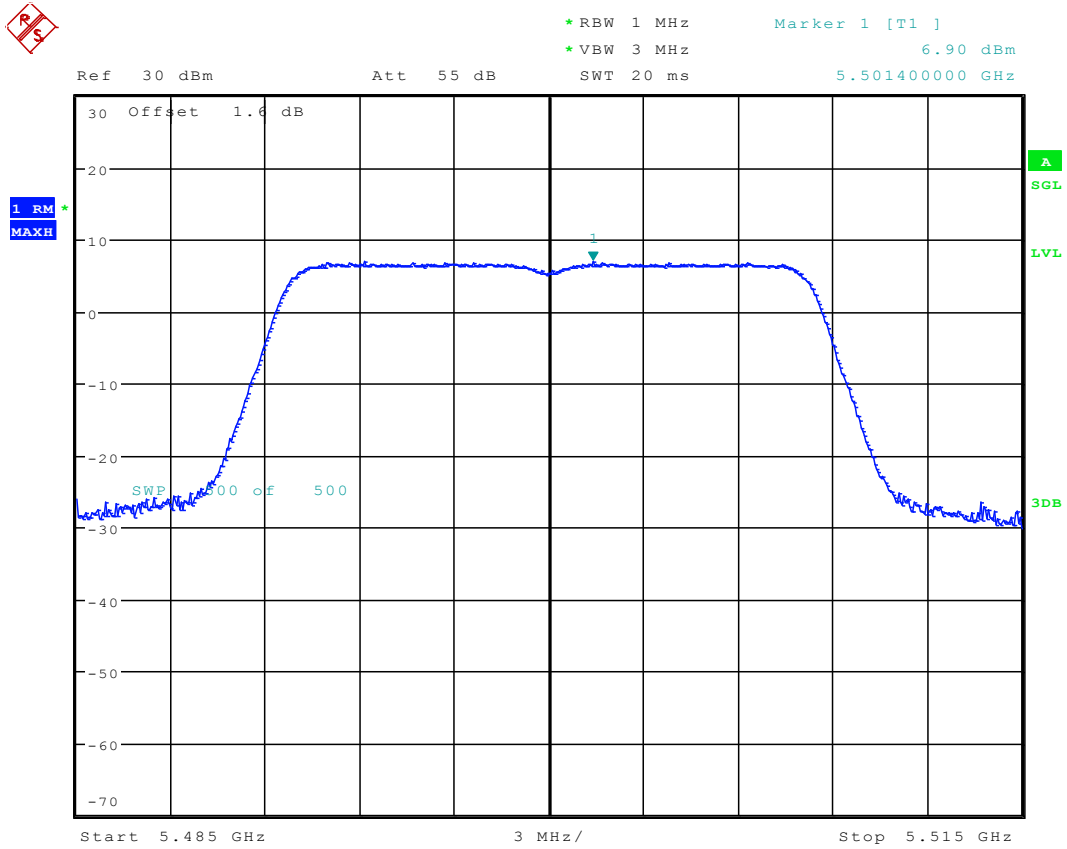
11.4 11A20_64 ANT 1



Date: 11.DEC.2017 10:07:43



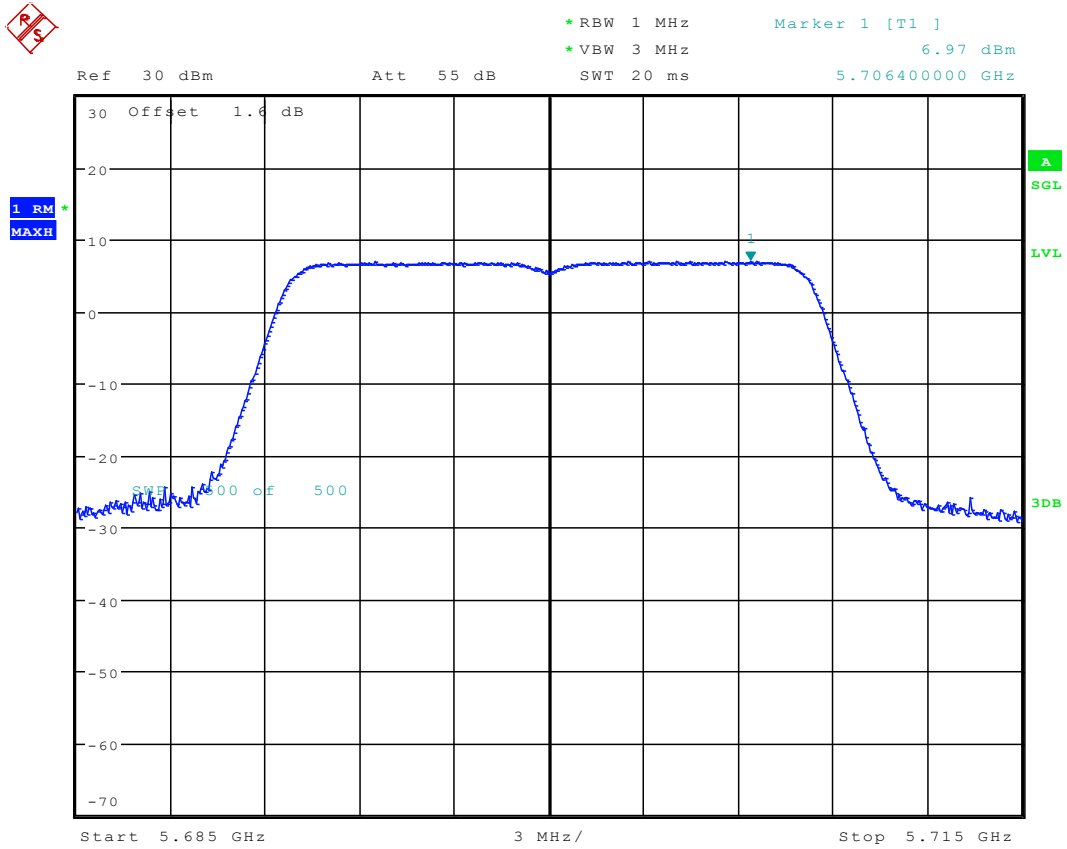
11.5 11A20_100 ANT 1



Date: 11.DEC.2017 10:14:09



11.6 11A20_140 ANT 1



Date: 11.DEC.2017 10:22:15

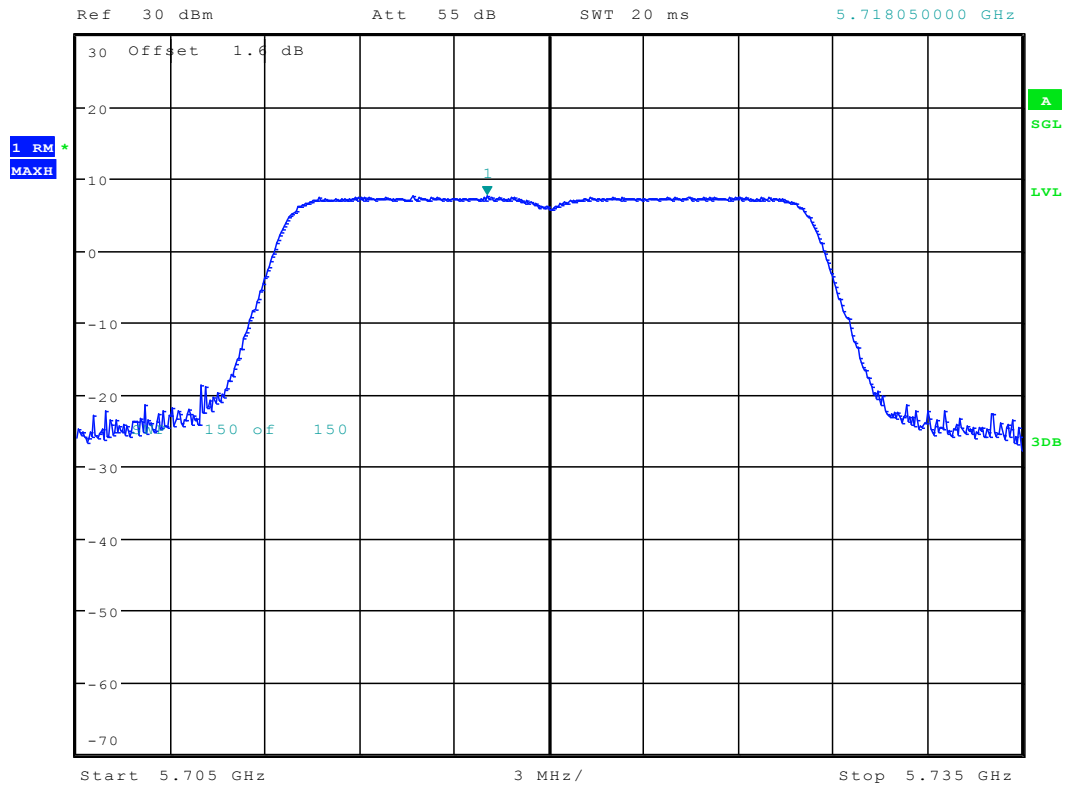


11.7 11A20_144 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

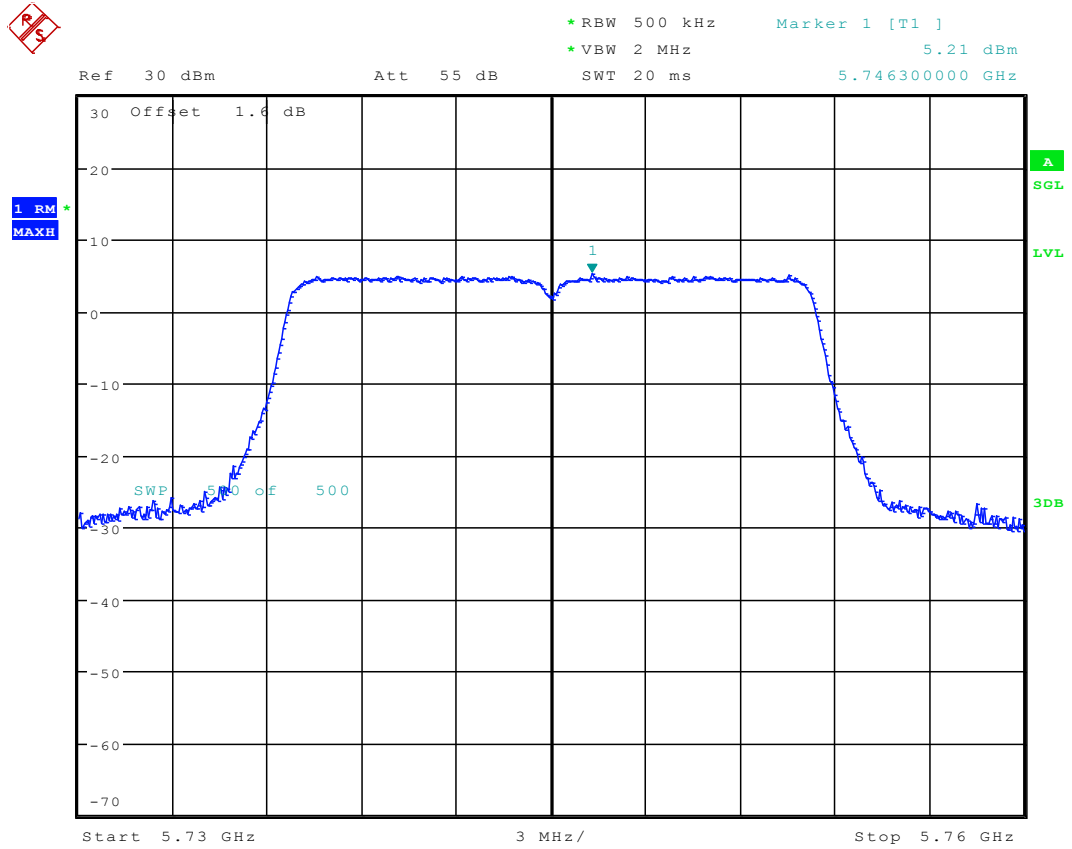
Marker 1 [T1]
7.57 dBm
5.718050000 GHz



Date: 23.DEC.2017 15:32:01



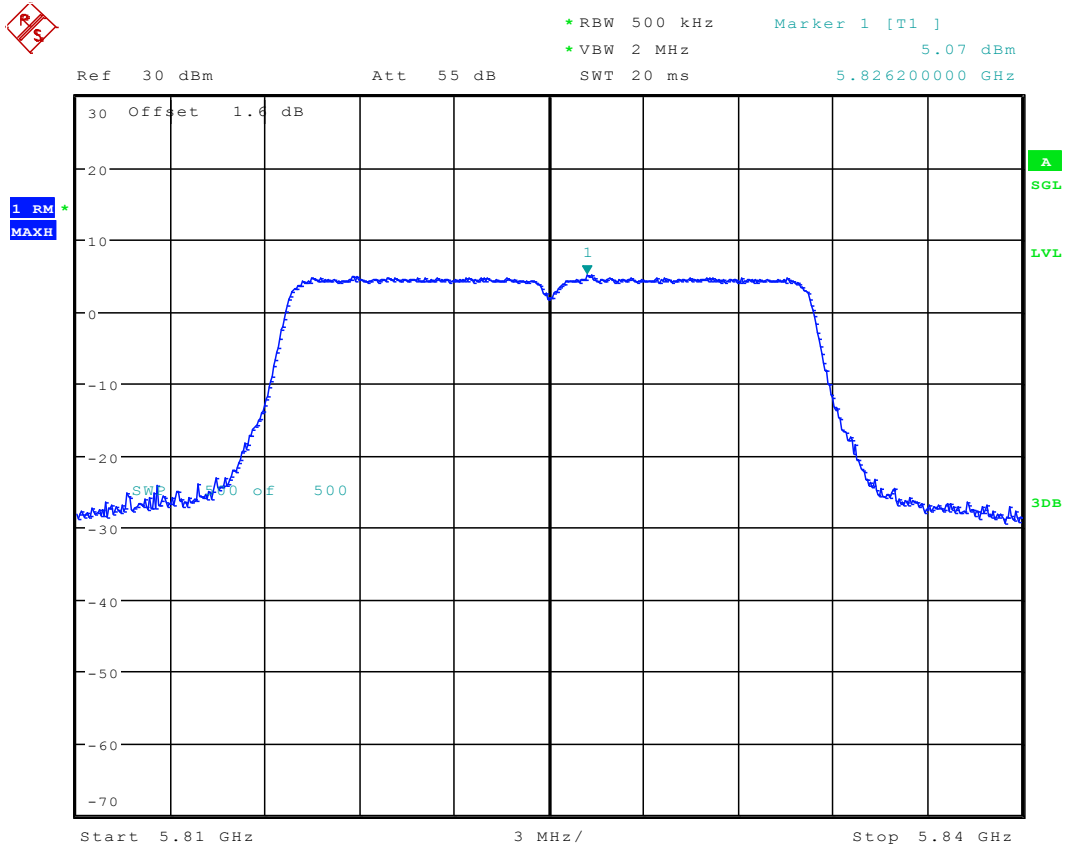
11.8 11A20_149 ANT 1



Date: 11.DEC.2017 10:29:15



11.9 11A20_165 ANT 1



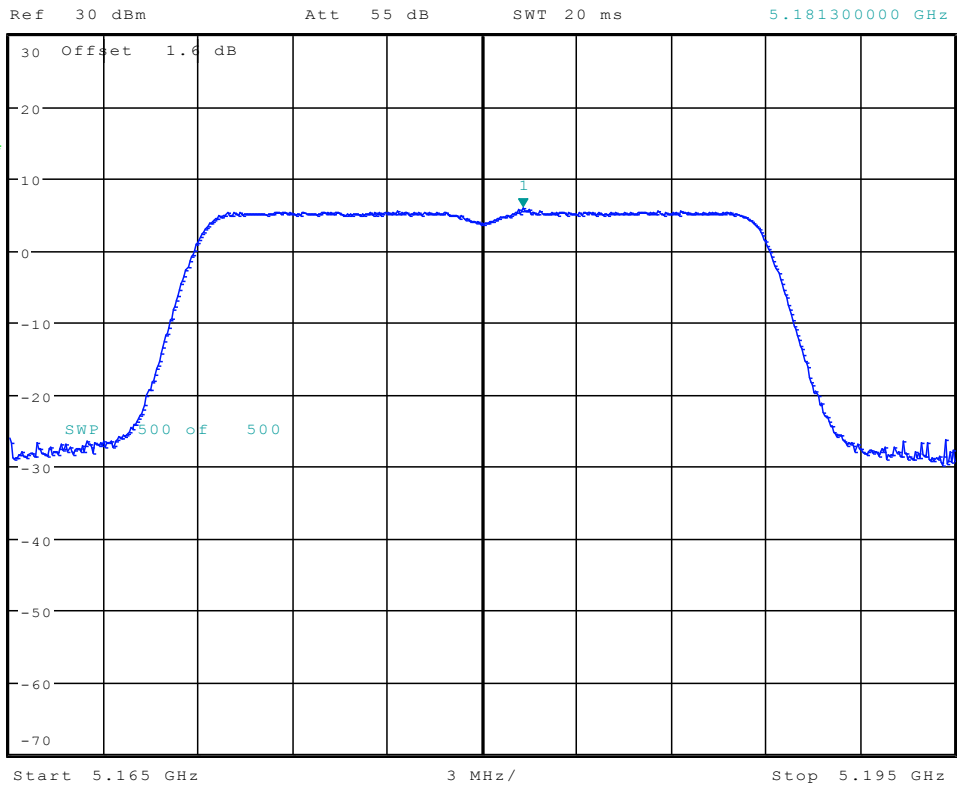
Date: 11.DEC.2017 10:35:28



11.10 11N20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 5.92 dBm
 SWT 20 ms 5.181300000 GHz



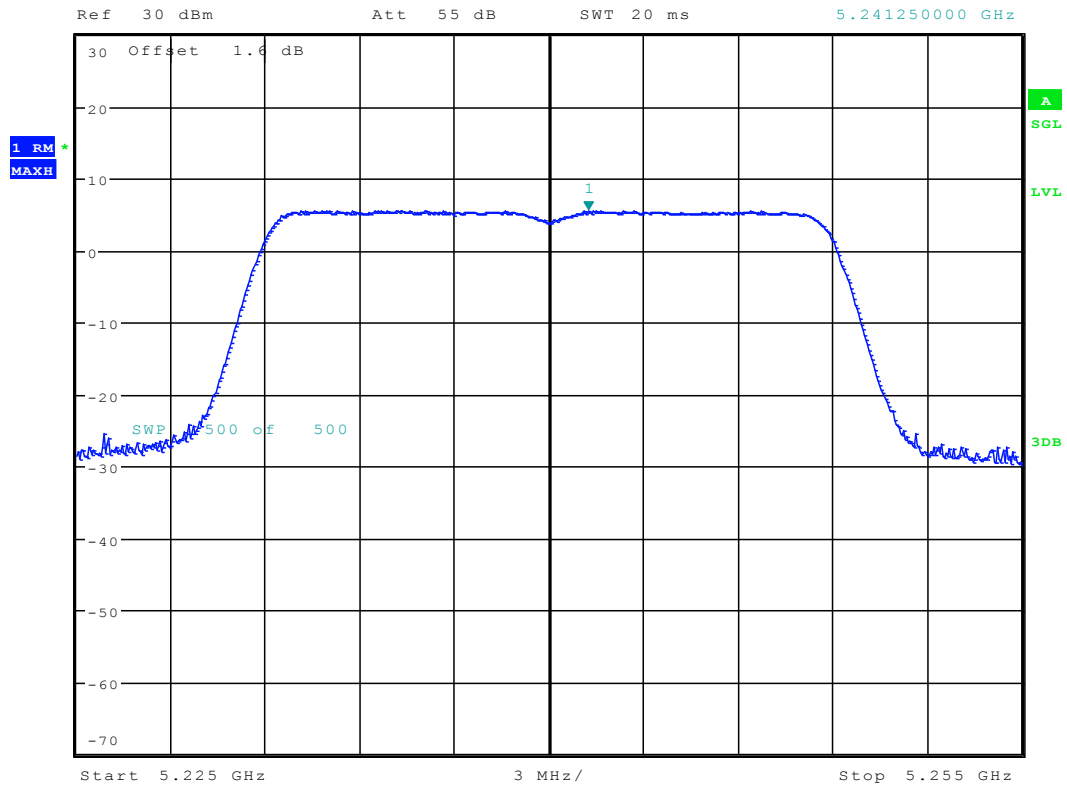
Date: 11.DEC.2017 10:43:18



11.11 11N20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.62 dBm
SWT 20 ms 5.241250000 GHz



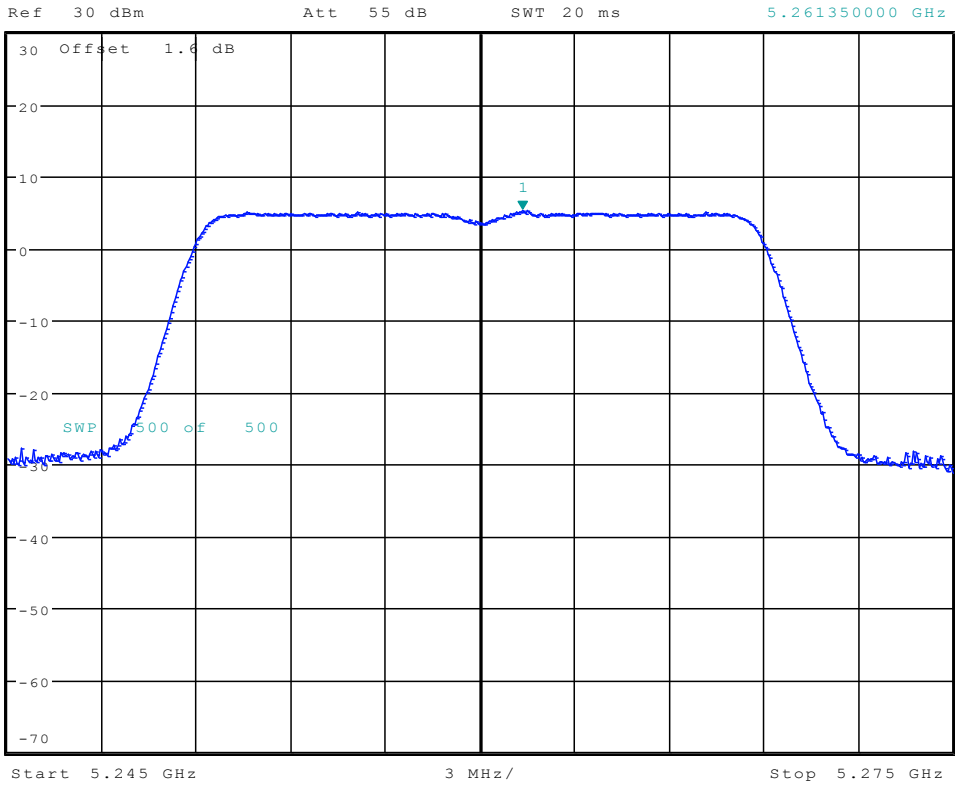
Date: 11.DEC.2017 10:53:33



11.12 11N20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 5.28 dBm
 SWT 20 ms 5.261350000 GHz



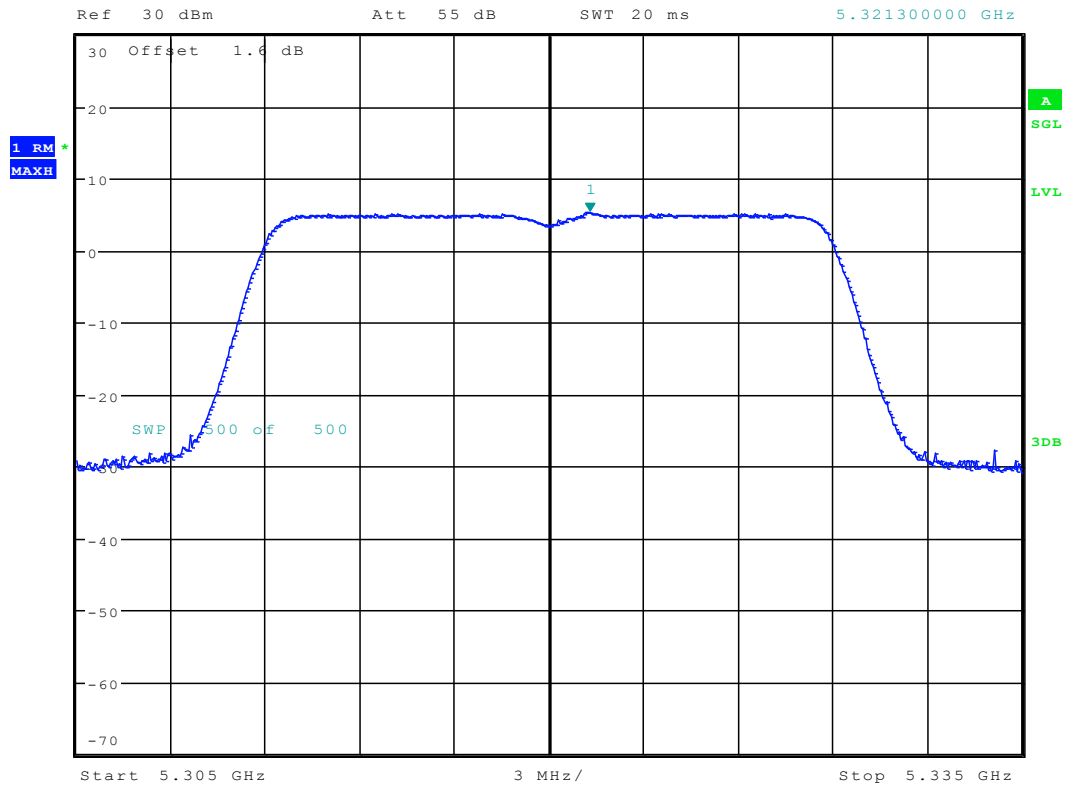
Date: 11.DEC.2017 10:59:02



11.13 11N20_64 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.33 dBm
SWT 20 ms 5.321300000 GHz



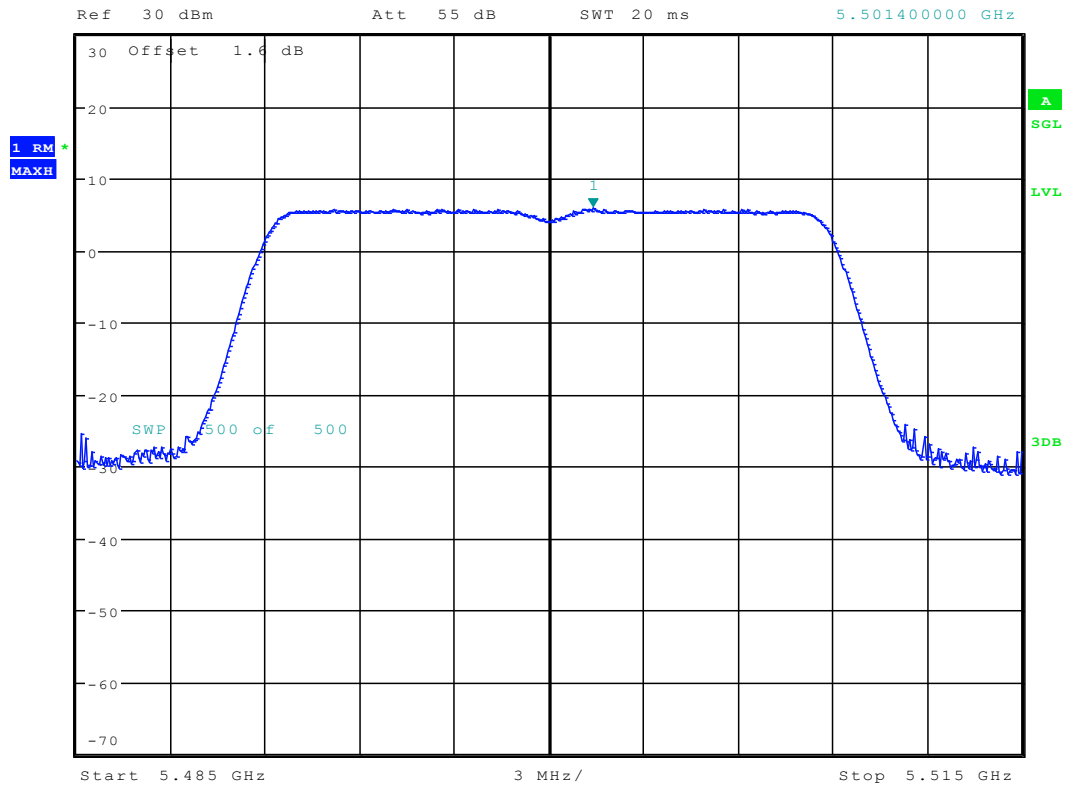
Date: 11.DEC.2017 11:03:56



11.14 11N20_100 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.92 dBm
SWT 20 ms 5.501400000 GHz



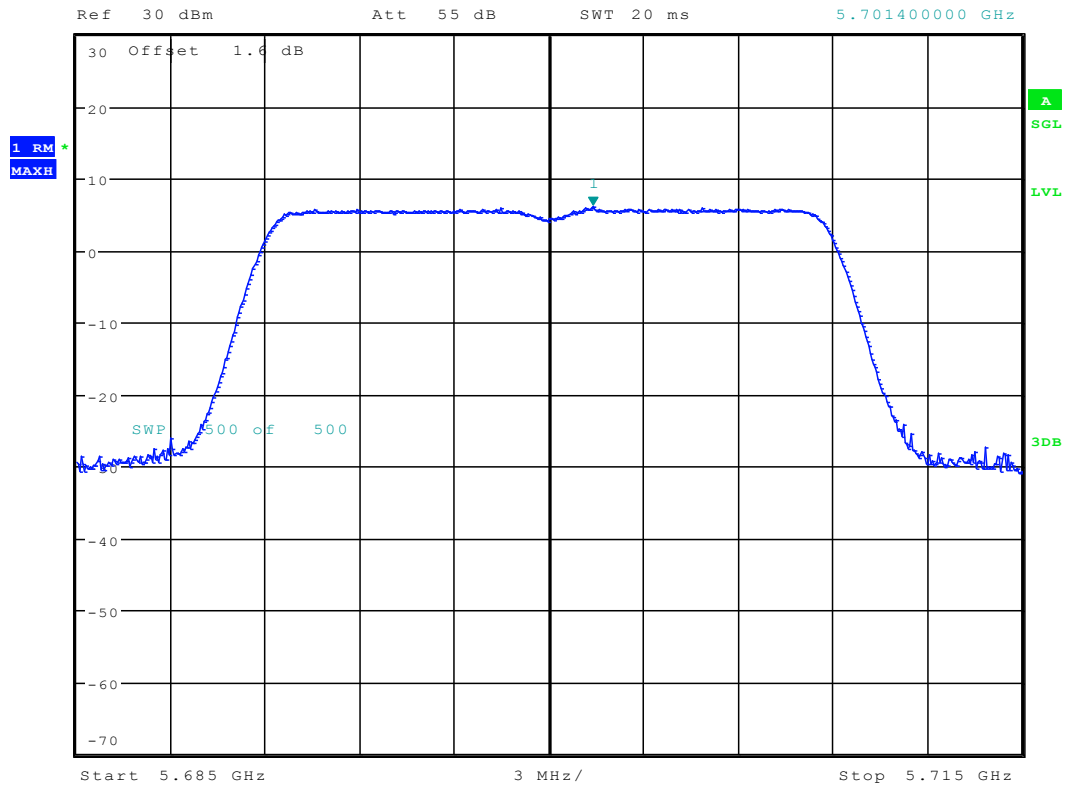
Date: 11.DEC.2017 11:09:16



11.15 11N20_140 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.06 dBm
SWT 20 ms 5.701400000 GHz



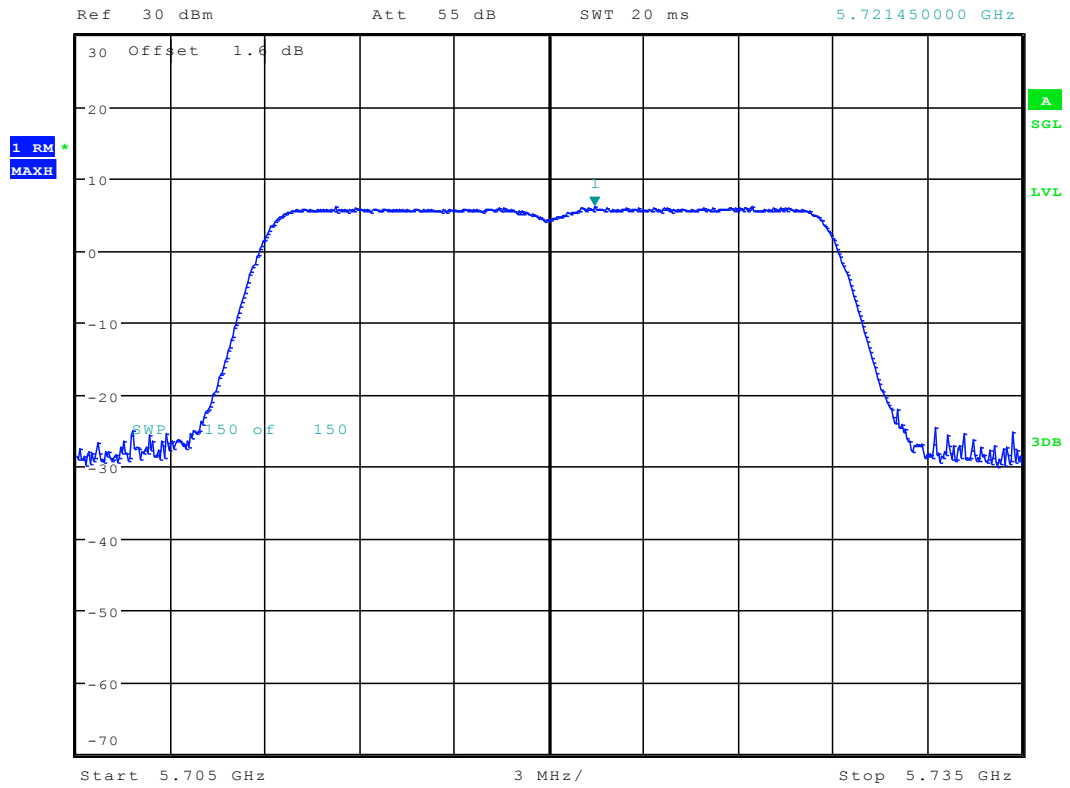
Date: 11.DEC.2017 12:50:36



11.16 11N20_144 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 6.16 dBm
SWT 20 ms 5.721450000 GHz



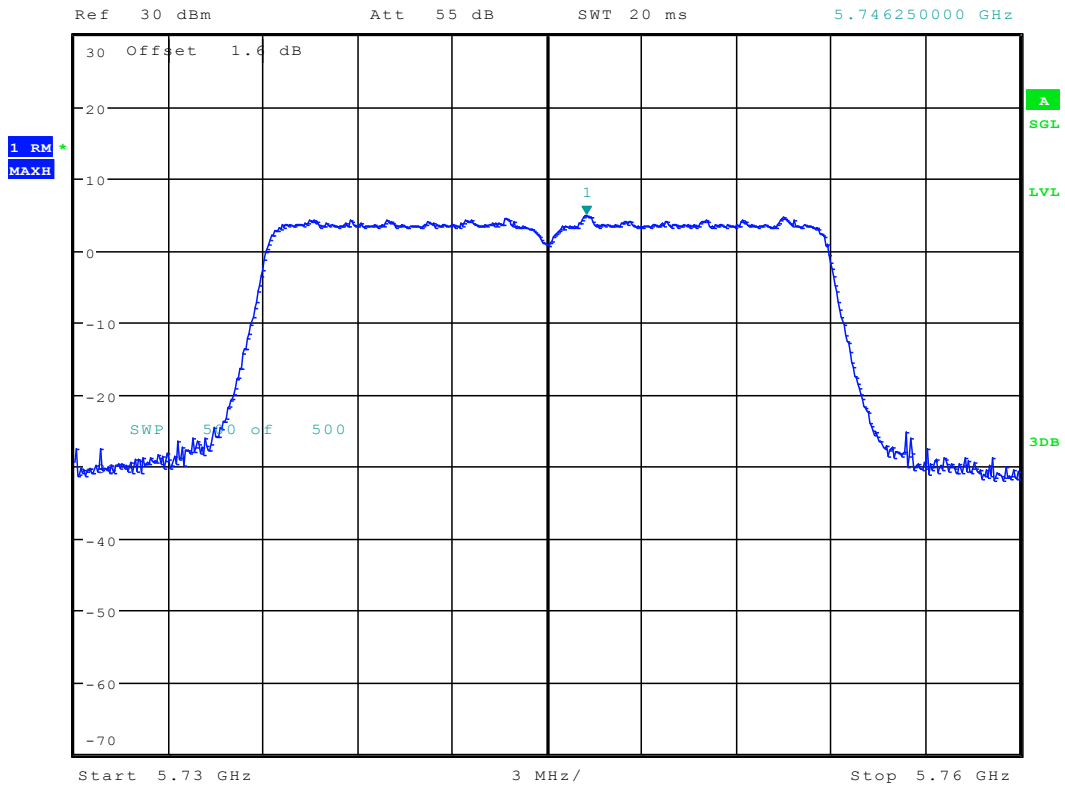
Date: 23.DEC.2017 15:38:55



11.17 11N20_149 ANT 1



*RBW 500 kHz Marker 1 [T1]
*VBW 2 MHz 4.85 dBm
SWT 20 ms 5.746250000 GHz



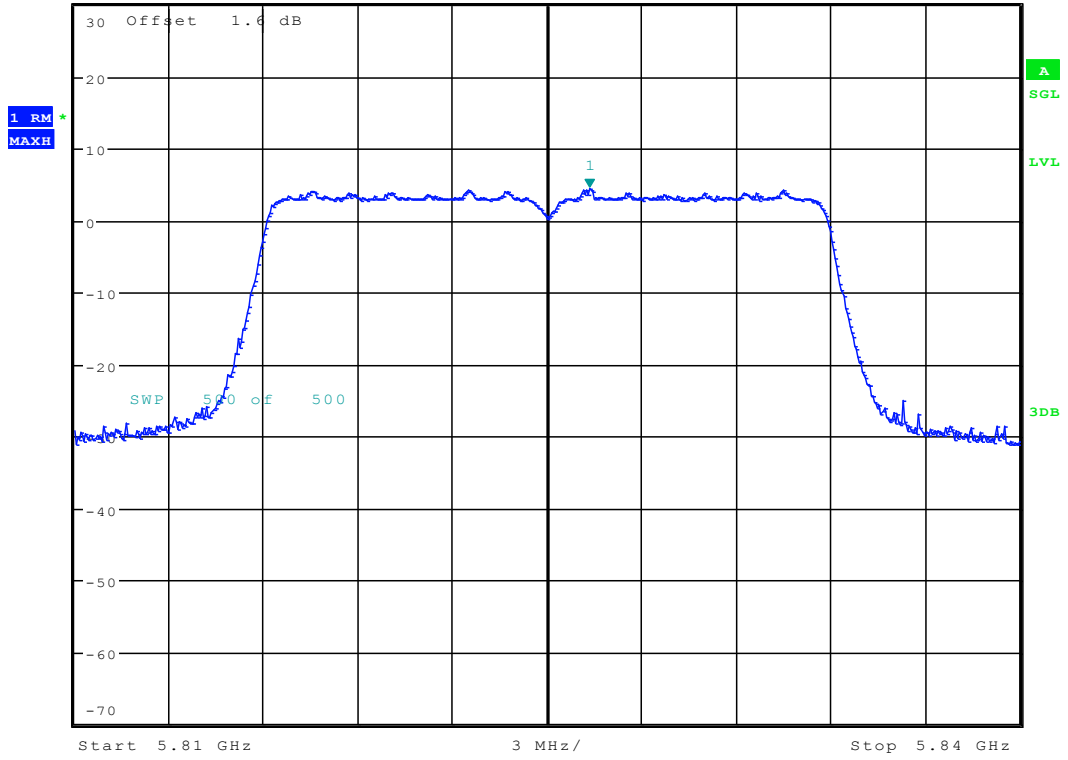
Date: 11.DEC.2017 12:58:34



11.18 11N20_165 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 4.45 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.826350000 GHz



Date: 11.DEC.2017 13:04:44

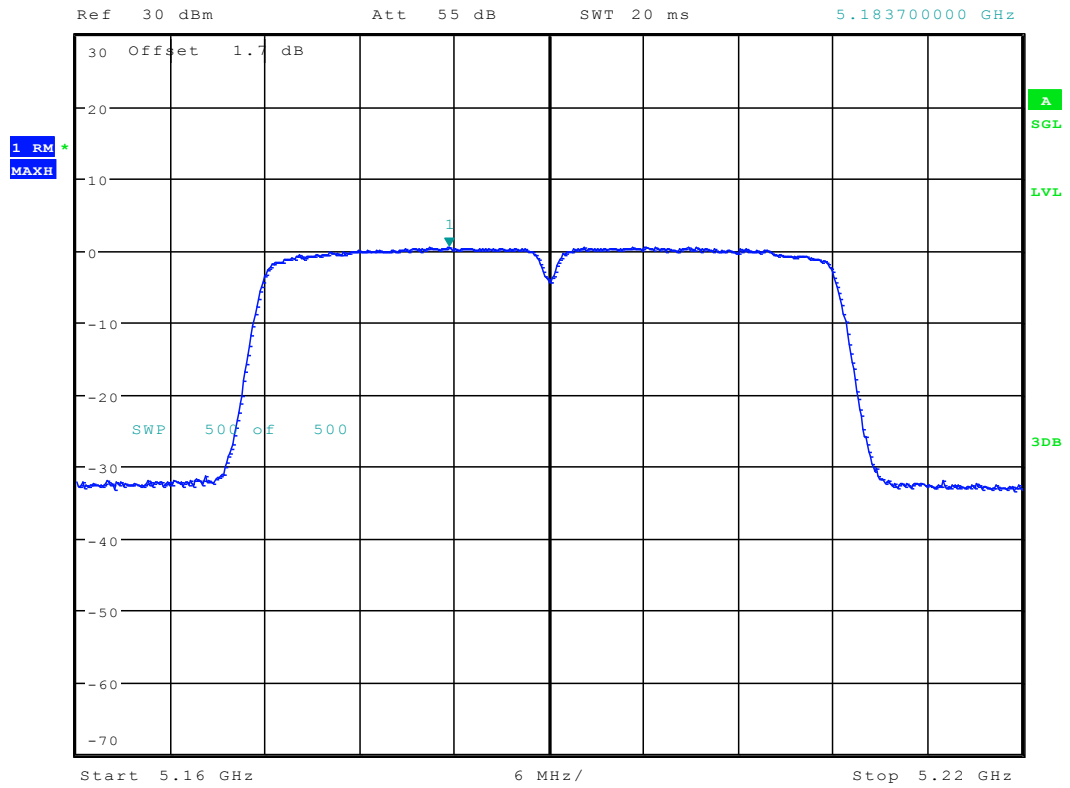


11.19 11N40_38 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
0.56 dBm
5.183700000 GHz



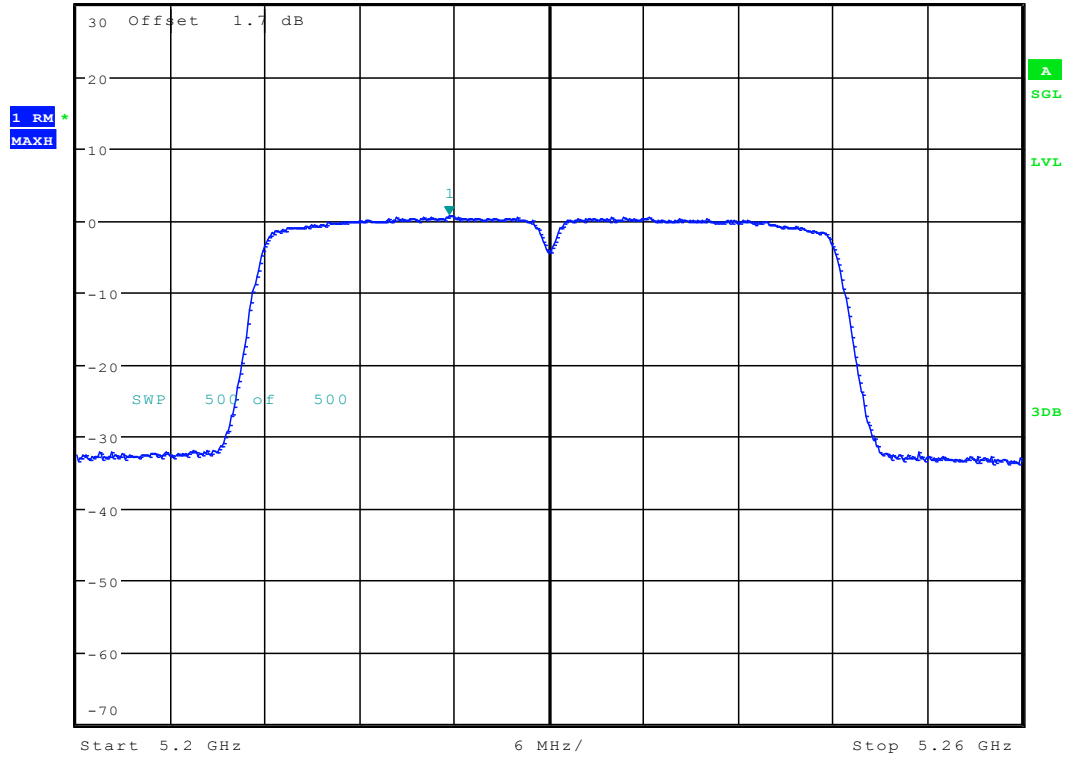
Date: 11.DEC.2017 13:15:48



11.20 11N40_46 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.69 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.223700000 GHz



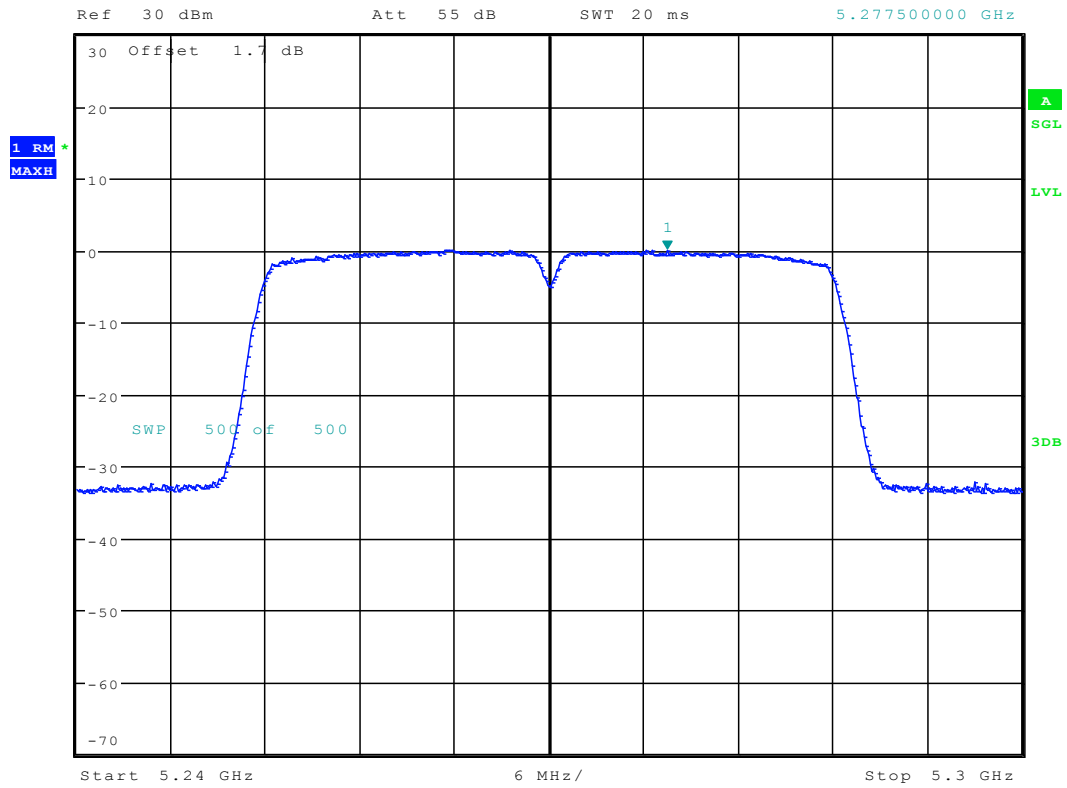
Date: 11.DEC.2017 13:24:27



11.21 11N40_54 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.11 dBm
SWT 20 ms 5.277500000 GHz



Date: 11.DEC.2017 13:32:35

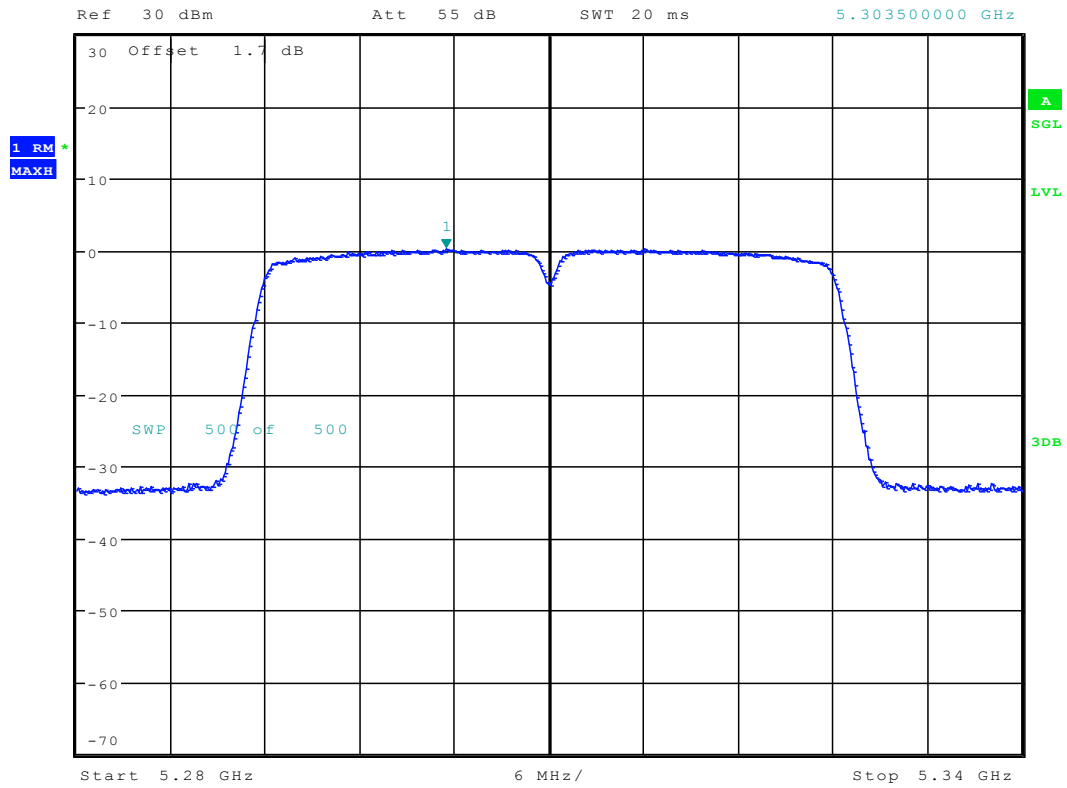


11.22 11N40_62 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
0.33 dBm
5.303500000 GHz



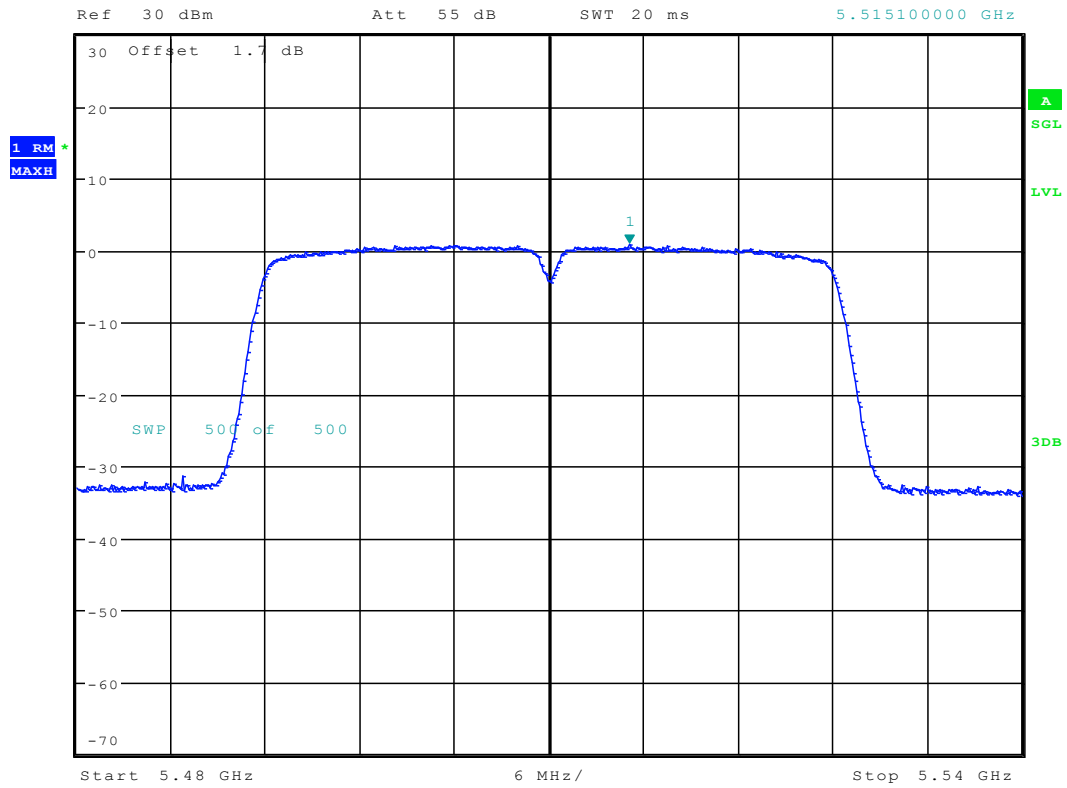
Date: 11.DEC.2017 13:38:11



11.23 11N40_102 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.83 dBm
 SWT 20 ms 5.515100000 GHz



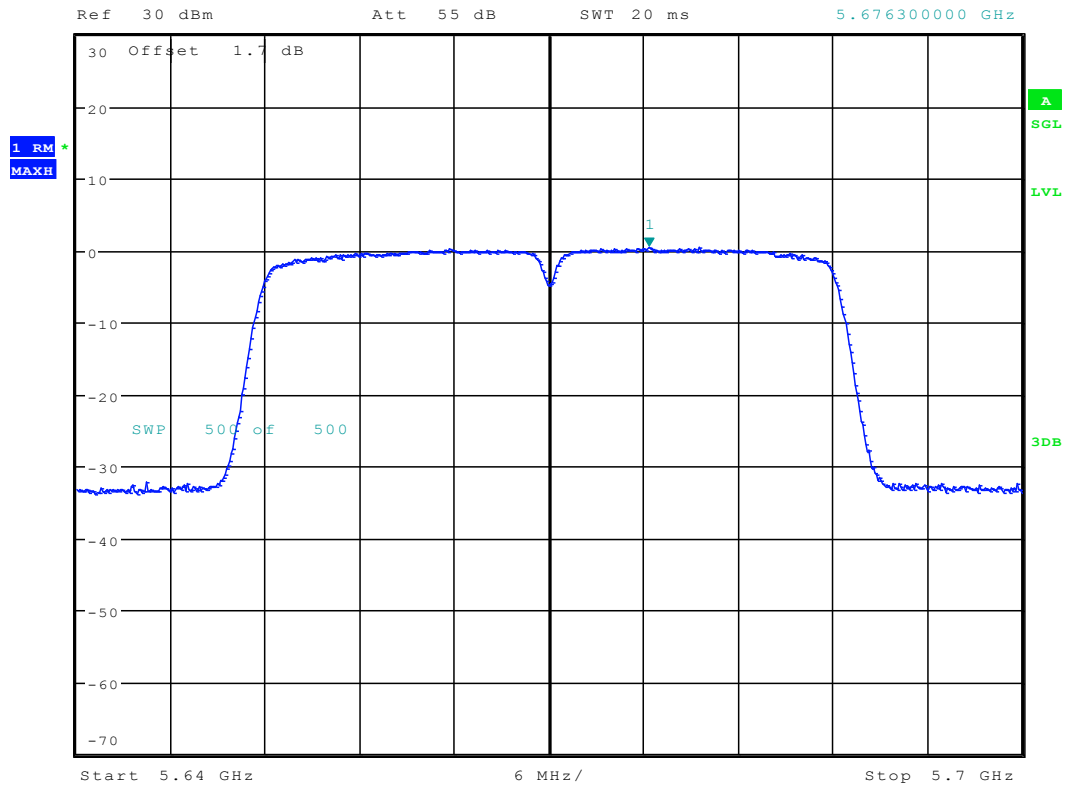
Date: 11.DEC.2017 13:43:49



11.24 11N40_134 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.45 dBm
SWT 20 ms 5.676300000 GHz



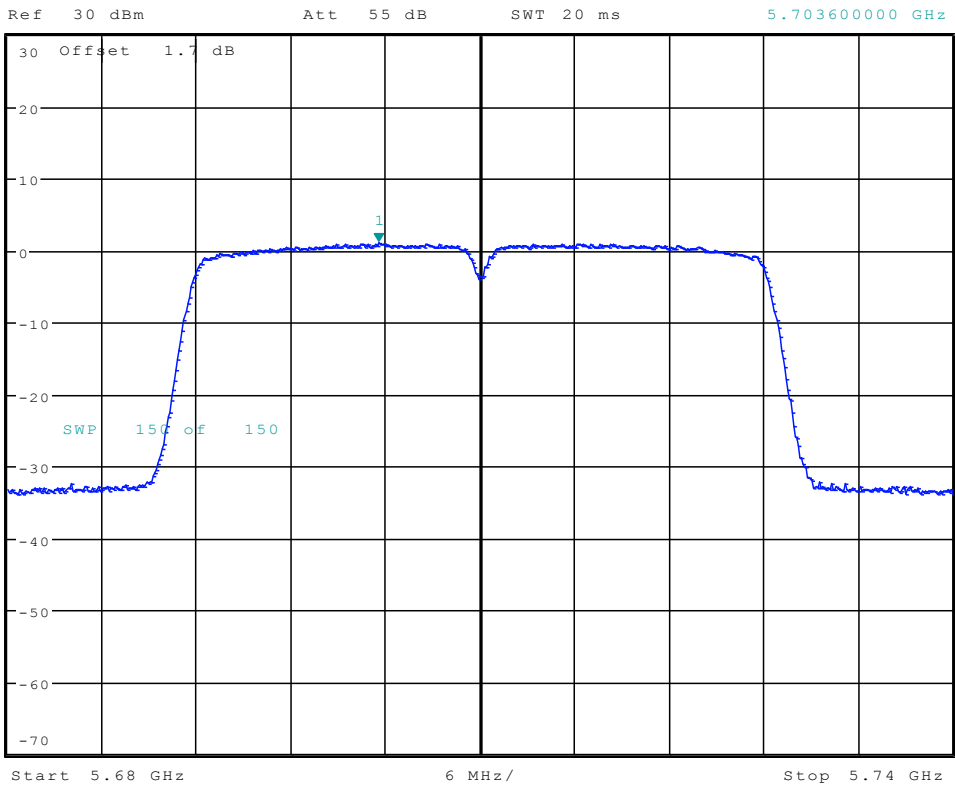
Date: 11.DEC.2017 13:47:56



11.25 11N40_142 ANT 1



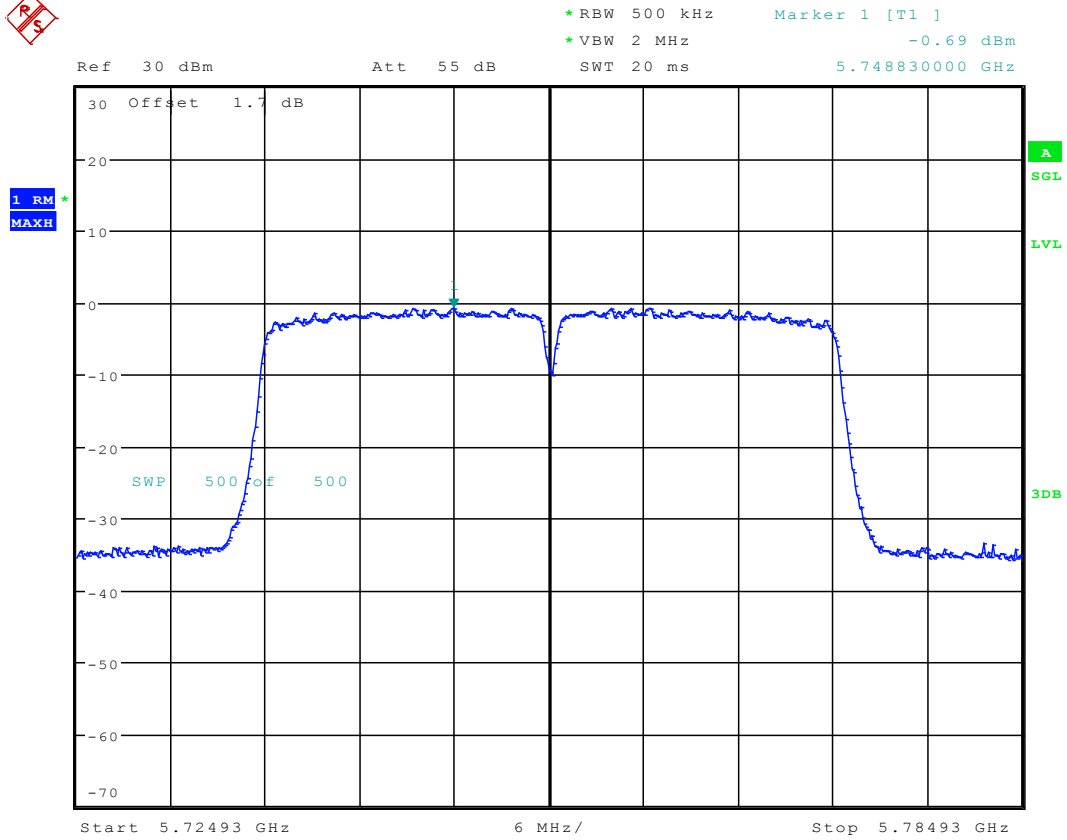
*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 1.02 dBm
 SWT 20 ms 5.703600000 GHz



Date: 24.DEC.2017 13:57:34



11.26 11N40_151 ANT 1

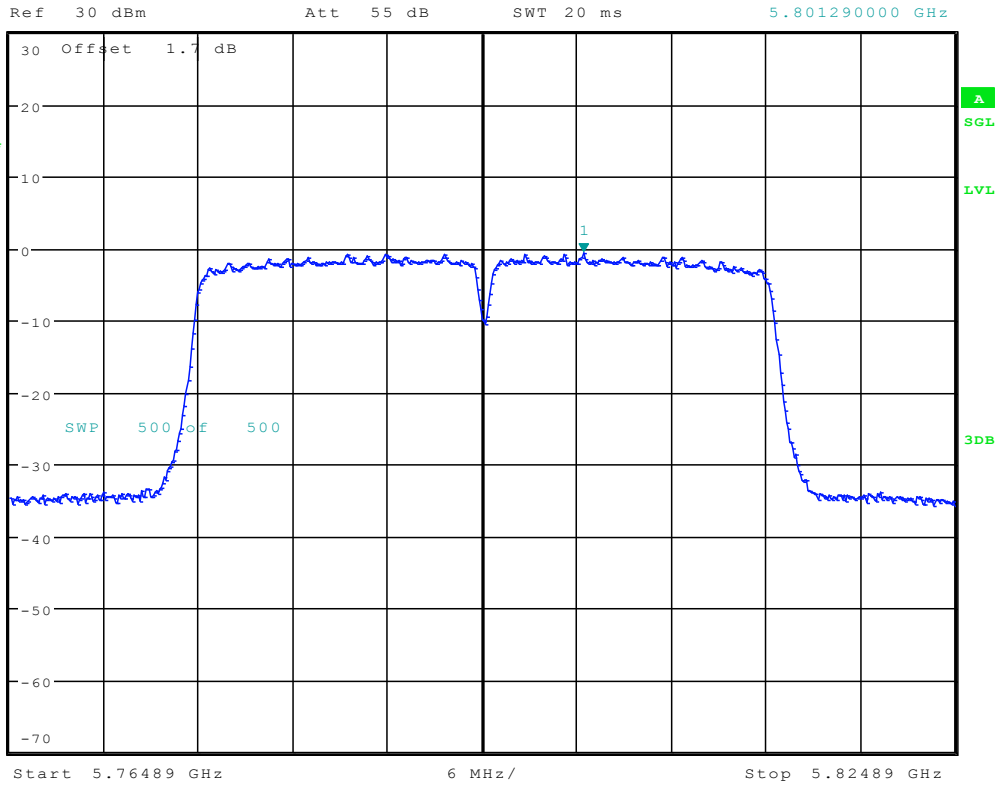


Date: 11.DEC.2017 13:53:27

11.27 11N40_159 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz -0.64 dBm
 SWT 20 ms 5.801290000 GHz



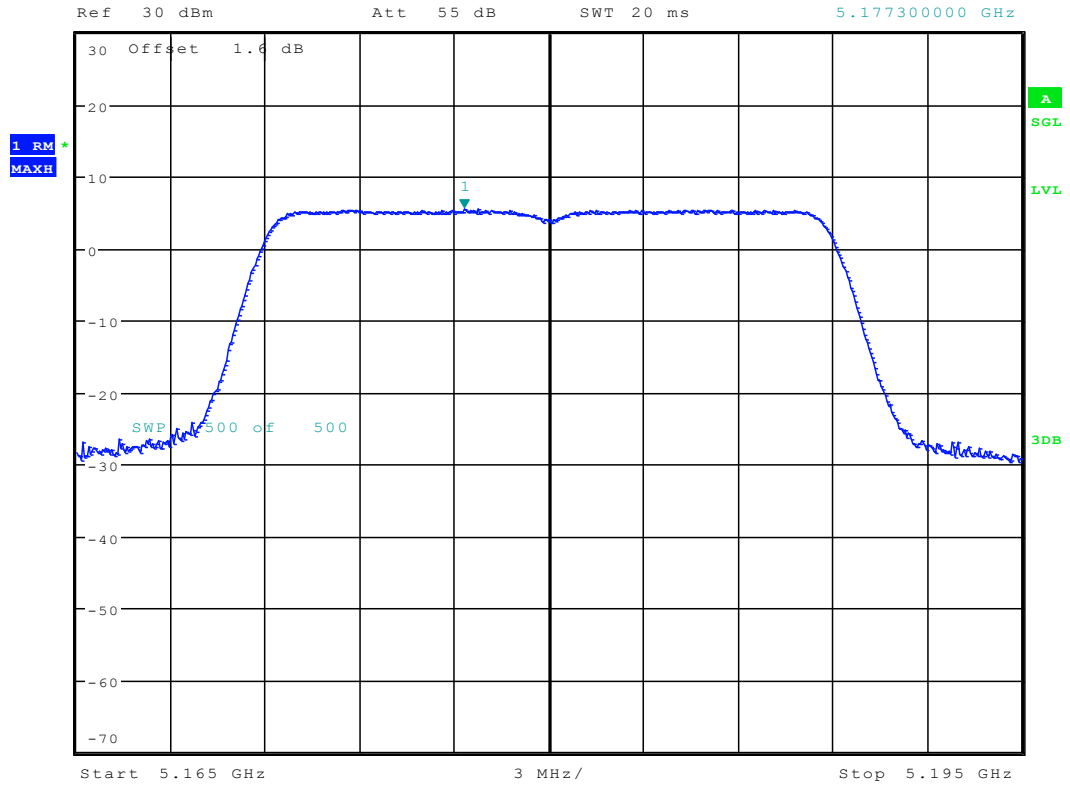
Date: 11.DEC.2017 13:58:21



11.28 11AC20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.60 dBm
SWT 20 ms 5.177300000 GHz



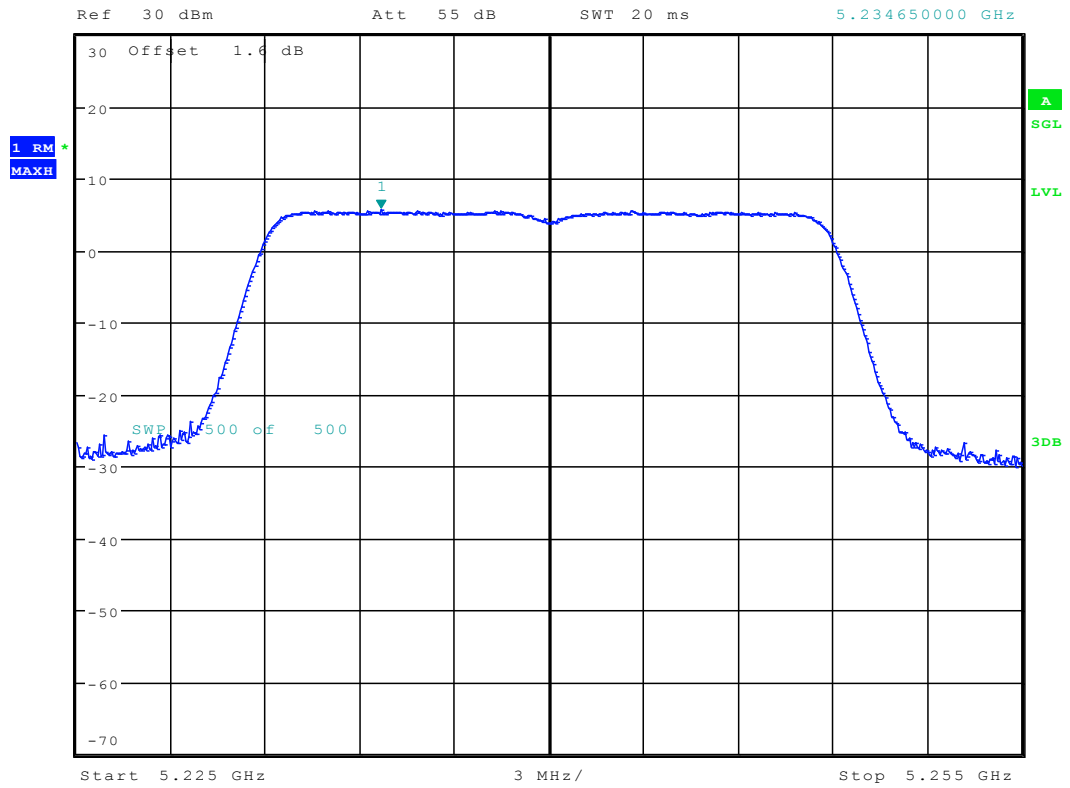
Date: 11.DEC.2017 14:07:00



11.29 11AC20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.67 dBm
SWT 20 ms 5.234650000 GHz



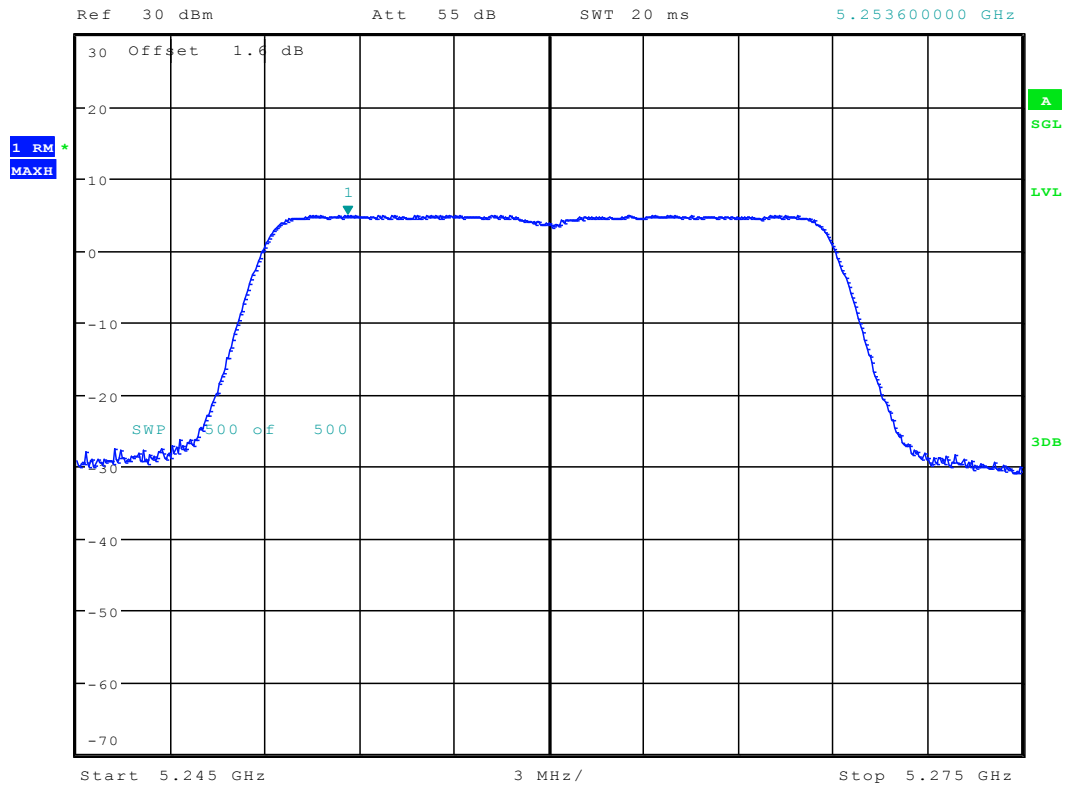
Date: 11.DEC.2017 14:11:40



11.30 11AC20_52 ANT 1

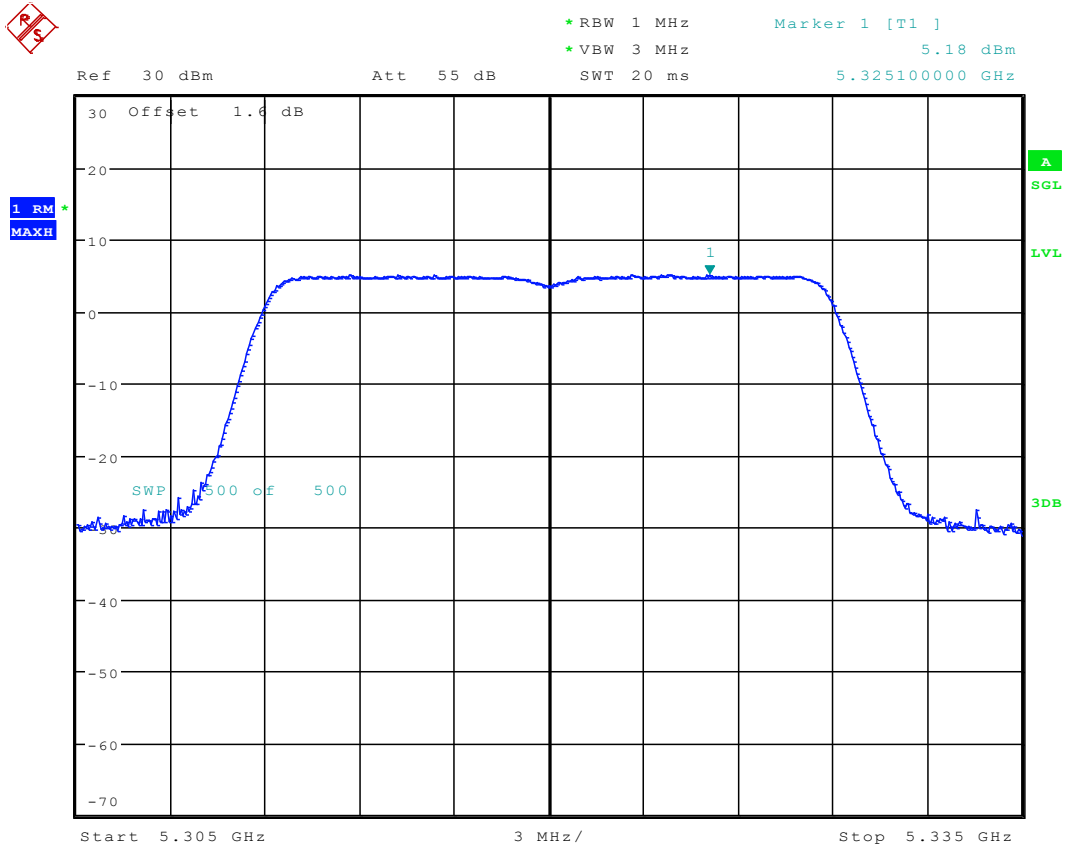


*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 4.98 dBm
SWT 20 ms 5.253600000 GHz



Date: 11.DEC.2017 14:16:03

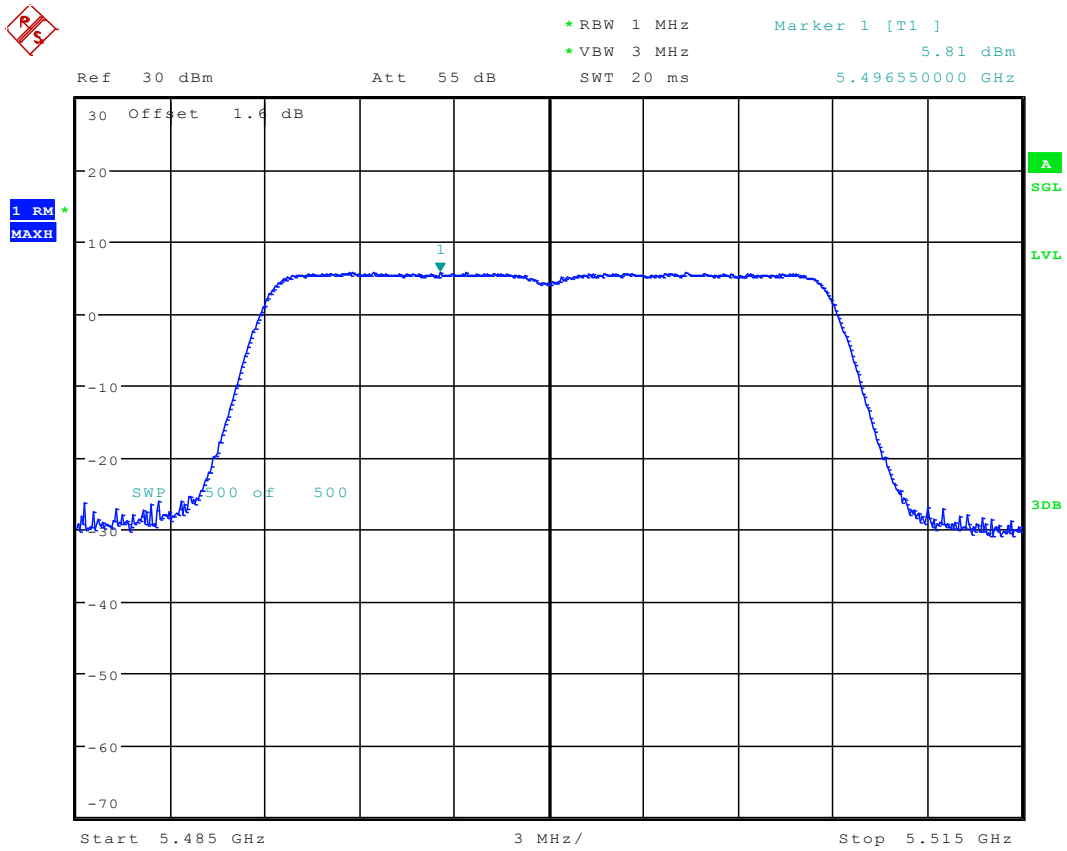
11.31 11AC20_64 ANT 1



Date: 11.DEC.2017 14:20:42



11.32 11AC20_100 ANT 1



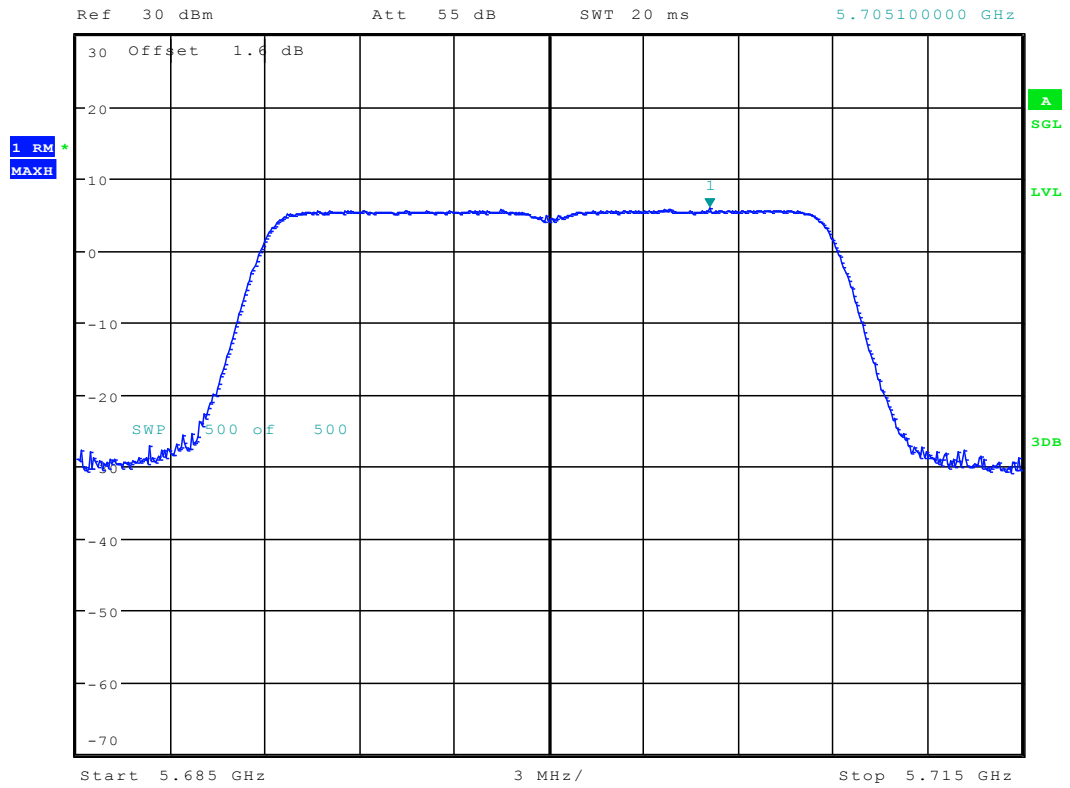
Date: 11.DEC.2017 14:25:11



11.33 11AC20_140 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 5.99 dBm
SWT 20 ms 5.705100000 GHz



Date: 11.DEC.2017 14:29:24

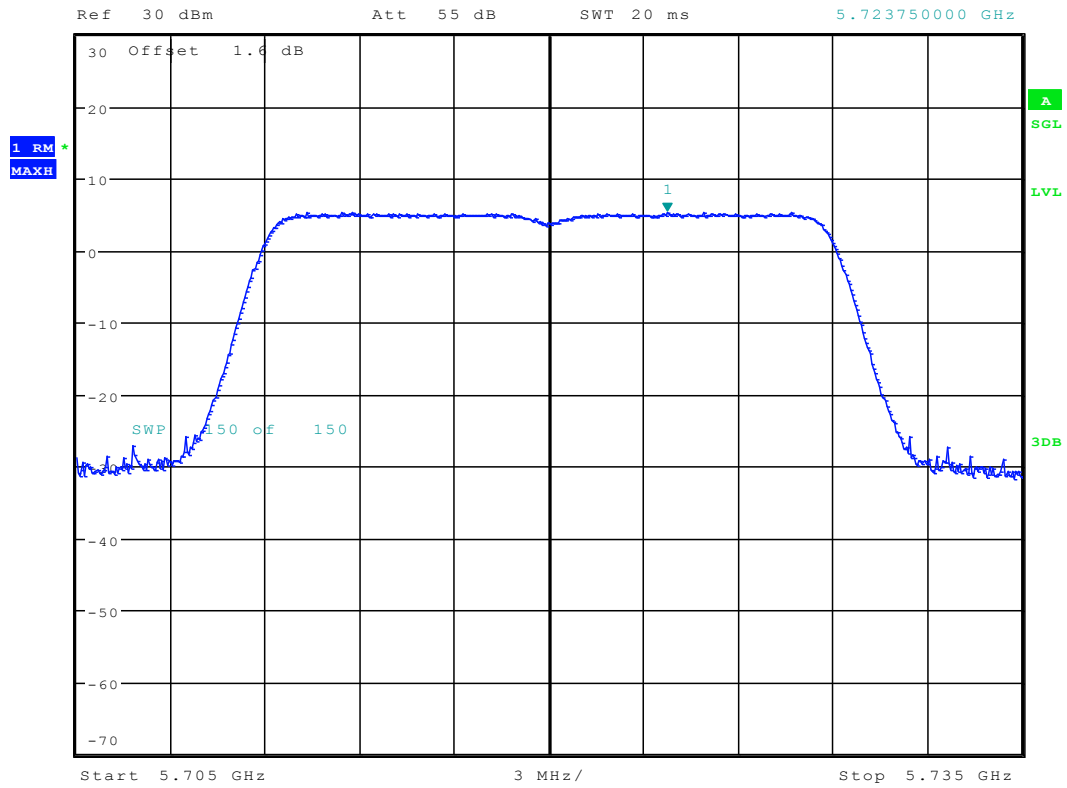


11.34 11AC20_144 ANT 1



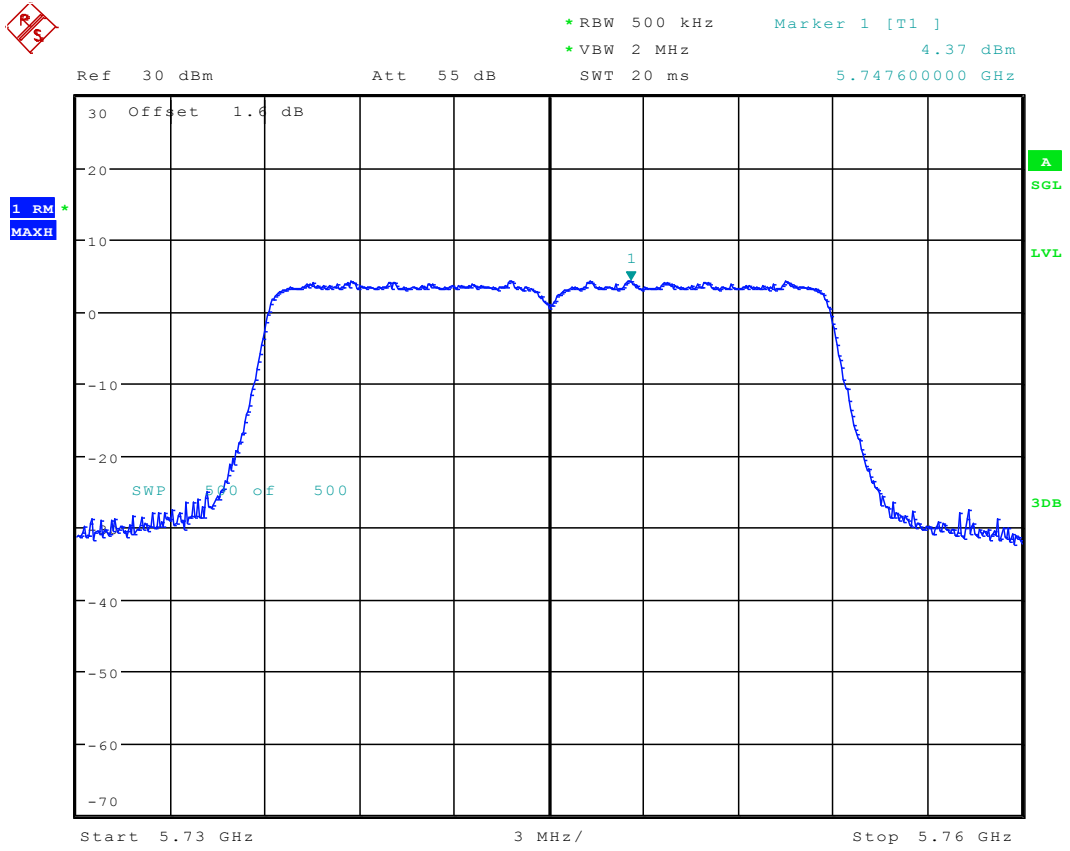
*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
5.32 dBm
5.723750000 GHz



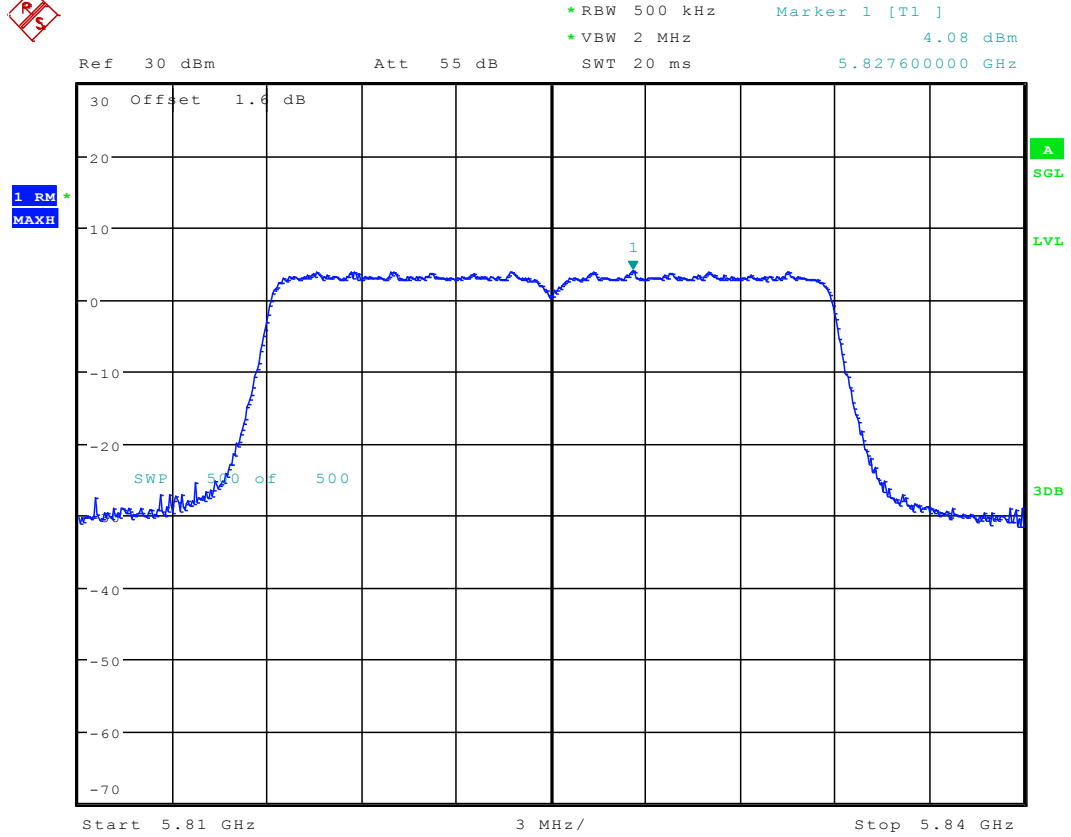
Date: 24.DEC.2017 14:04:26

11.35 11AC20_149 ANT 1



Date: 11.DEC.2017 14:34:59

11.36 11AC20_165 ANT 1



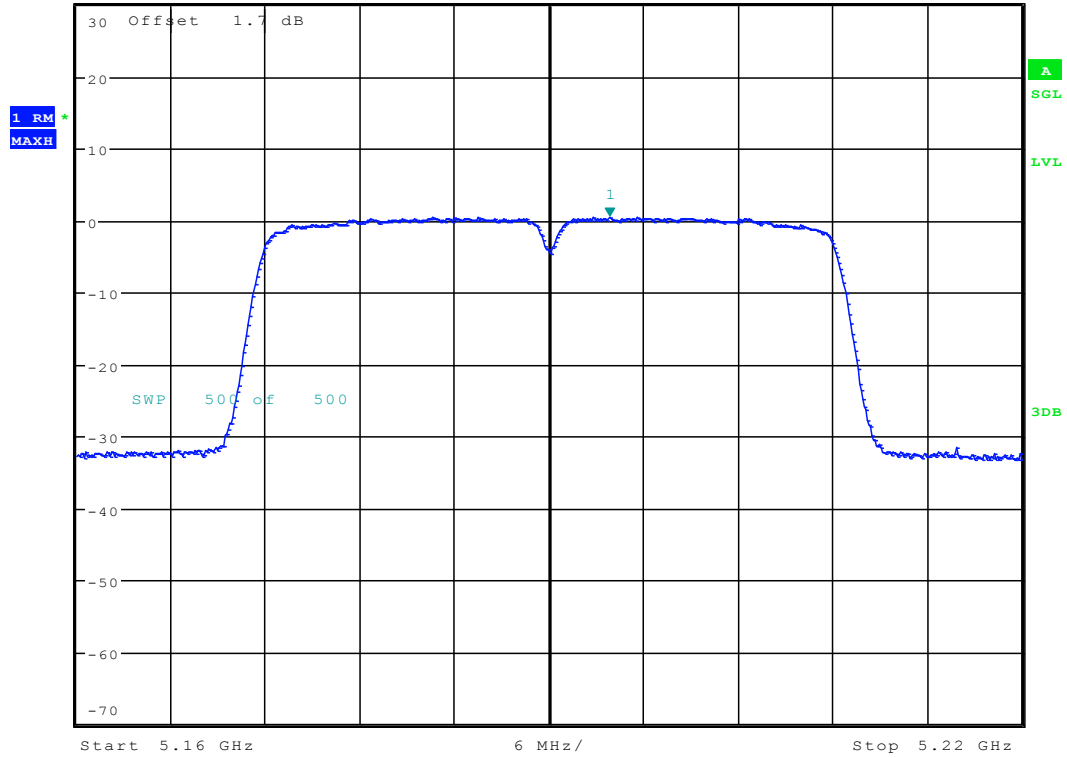
Date: 11.DEC.2017 14:39:56



11.37 11AC40_38 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.49 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.193800000 GHz



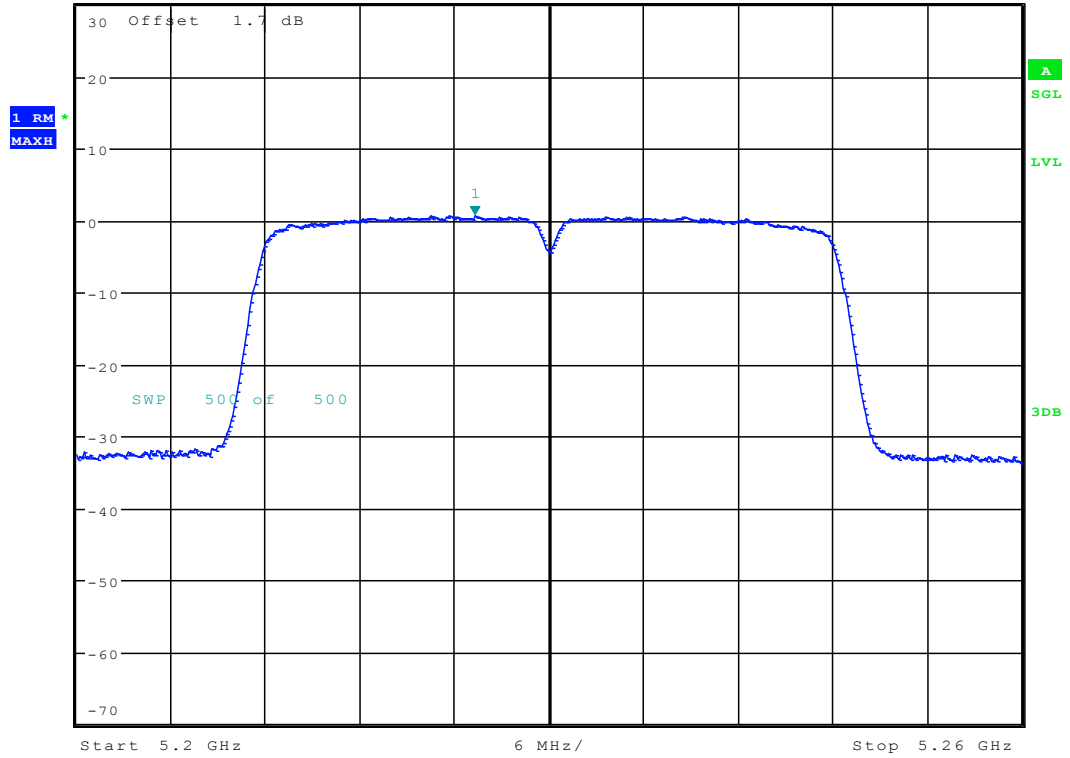
Date: 11.DEC.2017 14:46:27



11.38 11AC40_46 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.67 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.225300000 GHz



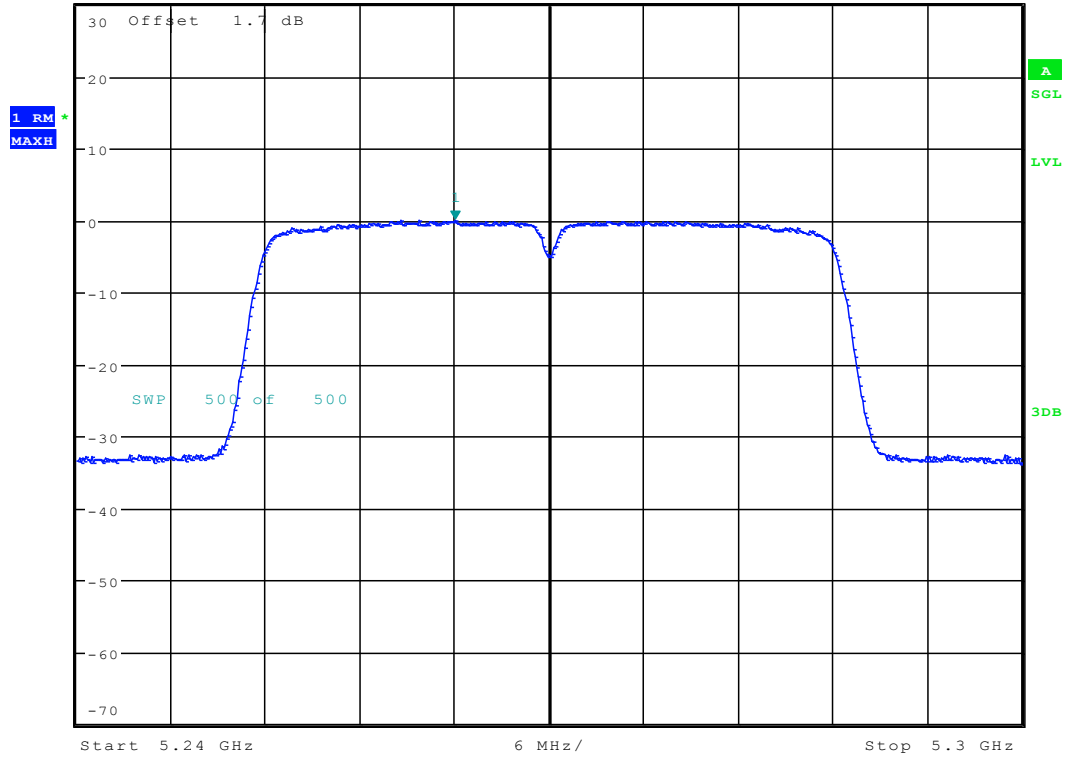
Date: 11.DEC.2017 14:51:54



11.39 11AC40_54 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.03 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.264000000 GHz



Date: 11.DEC.2017 14:56:33

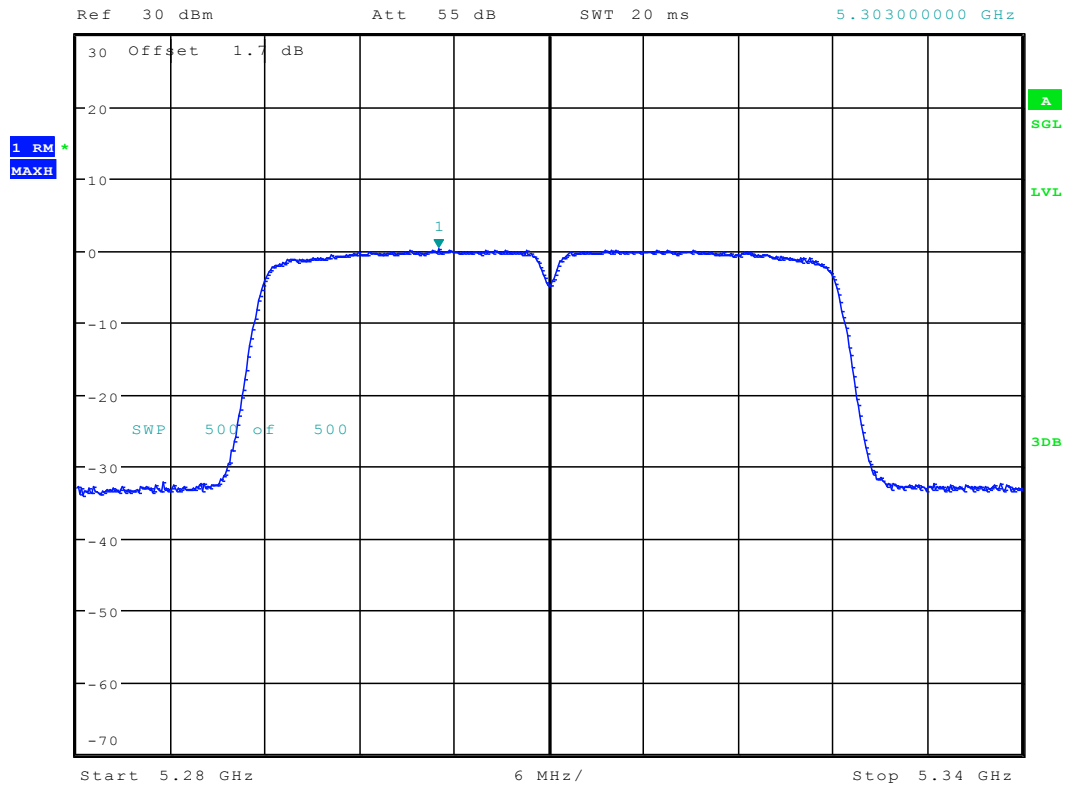


11.40 11AC40_62 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
0.19 dBm
5.303000000 GHz



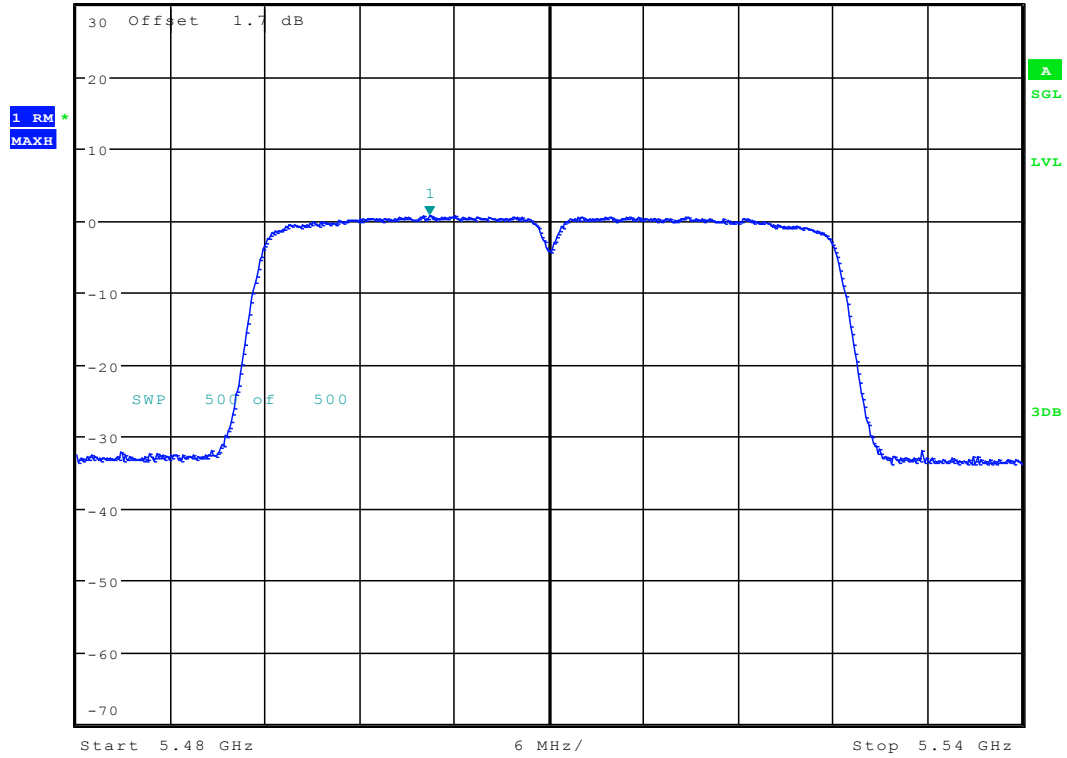
Date: 11.DEC.2017 15:02:34



11.41 11AC40_102 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.63 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.502400000 GHz



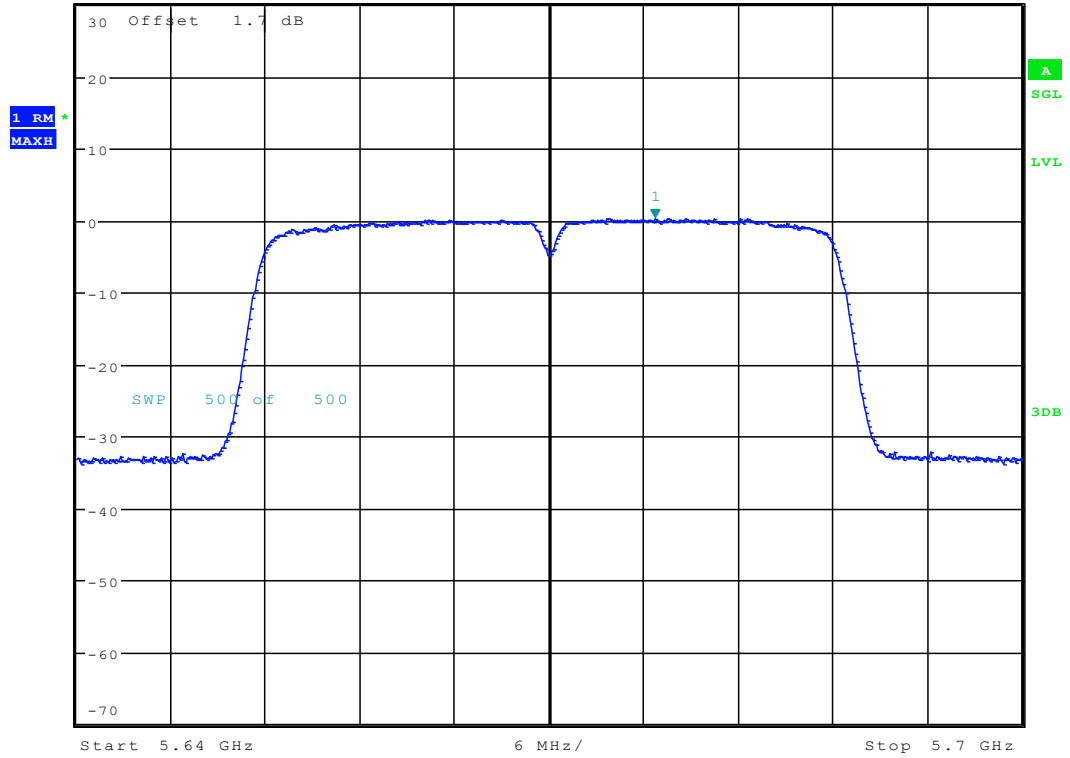
Date: 11.DEC.2017 15:08:09



11.42 11AC40_134 ANT 1



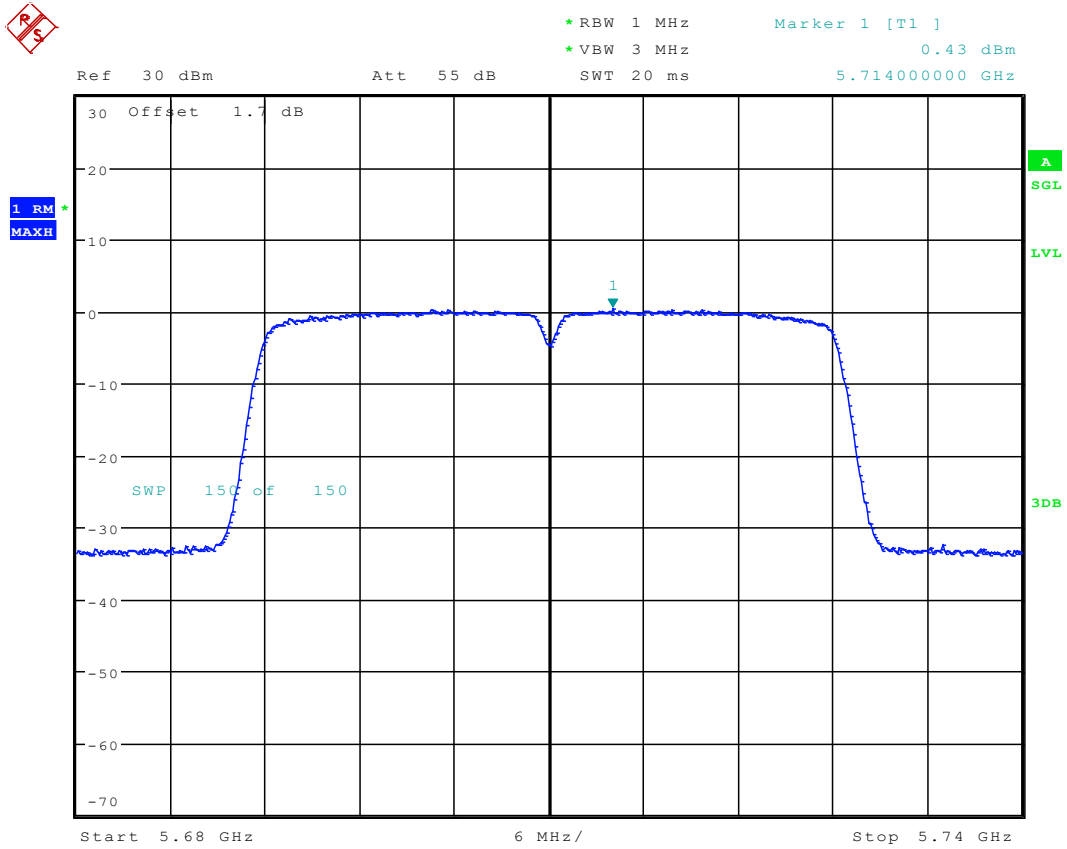
*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.34 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.676700000 GHz



Date: 11.DEC.2017 15:13:04



11.43 11AC40_142 ANT 1



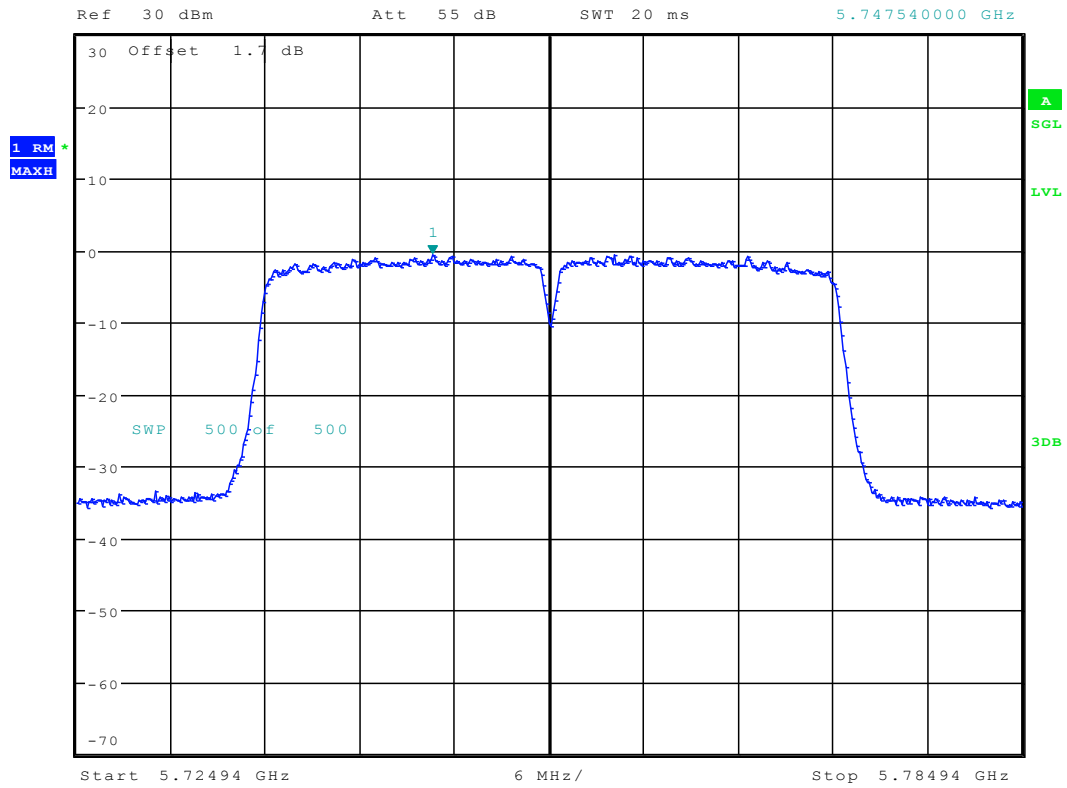
Date: 24.DEC.2017 14:12:12



11.44 11AC40_151 ANT 1



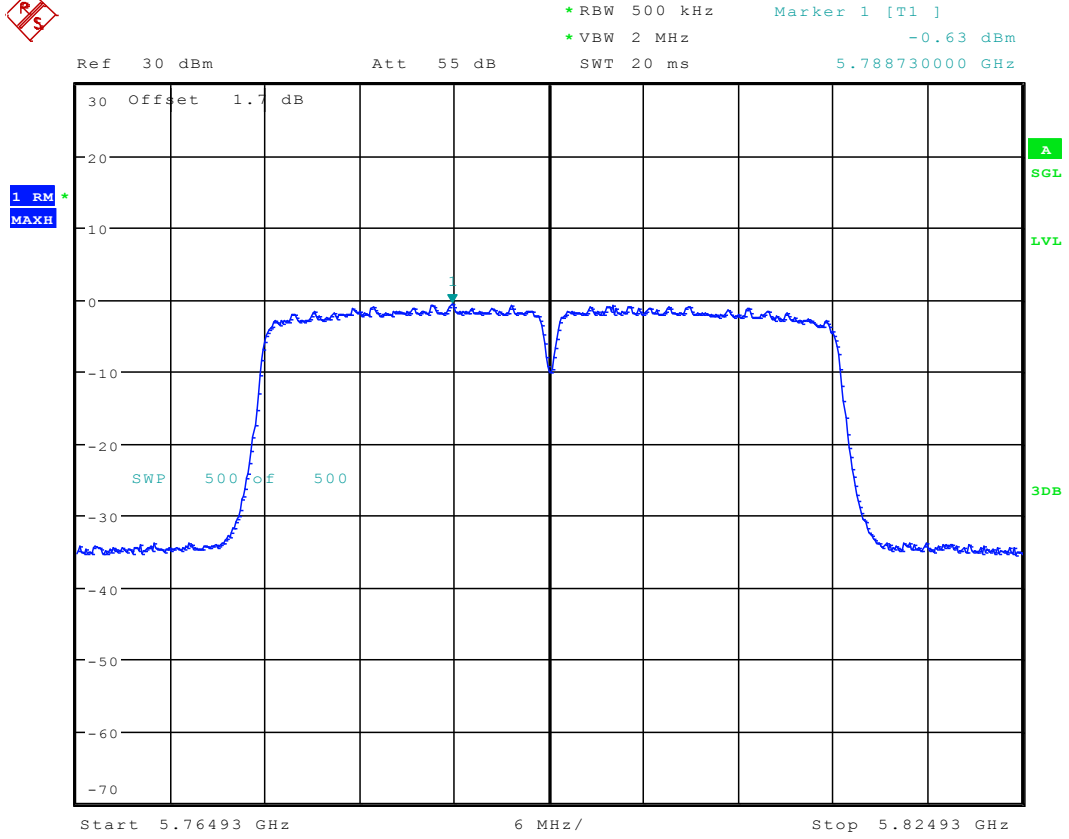
*RBW 500 kHz Marker 1 [T1]
*VBW 2 MHz -0.47 dBm
SWT 20 ms 5.747540000 GHz



Date: 11.DEC.2017 15:18:21



11.45 11AC40_159 ANT 1



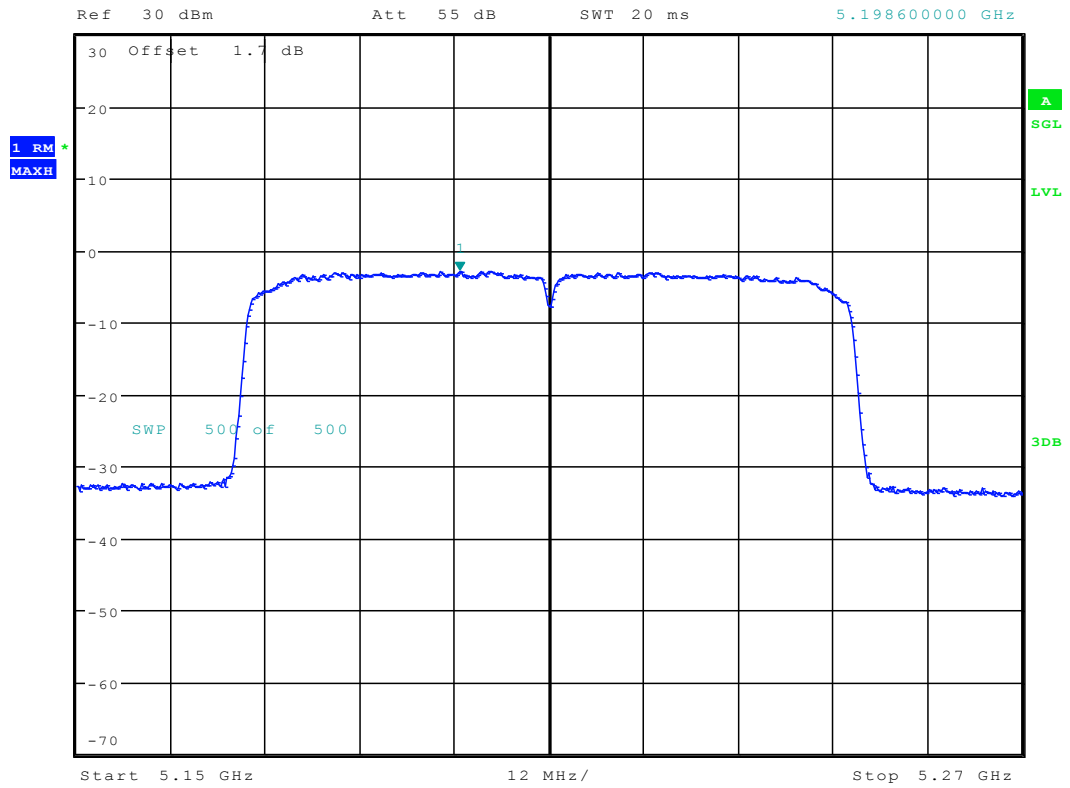
Date: 11.DEC.2017 15:23:29



11.46 11AC80_42 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -2.83 dBm
SWT 20 ms 5.198600000 GHz



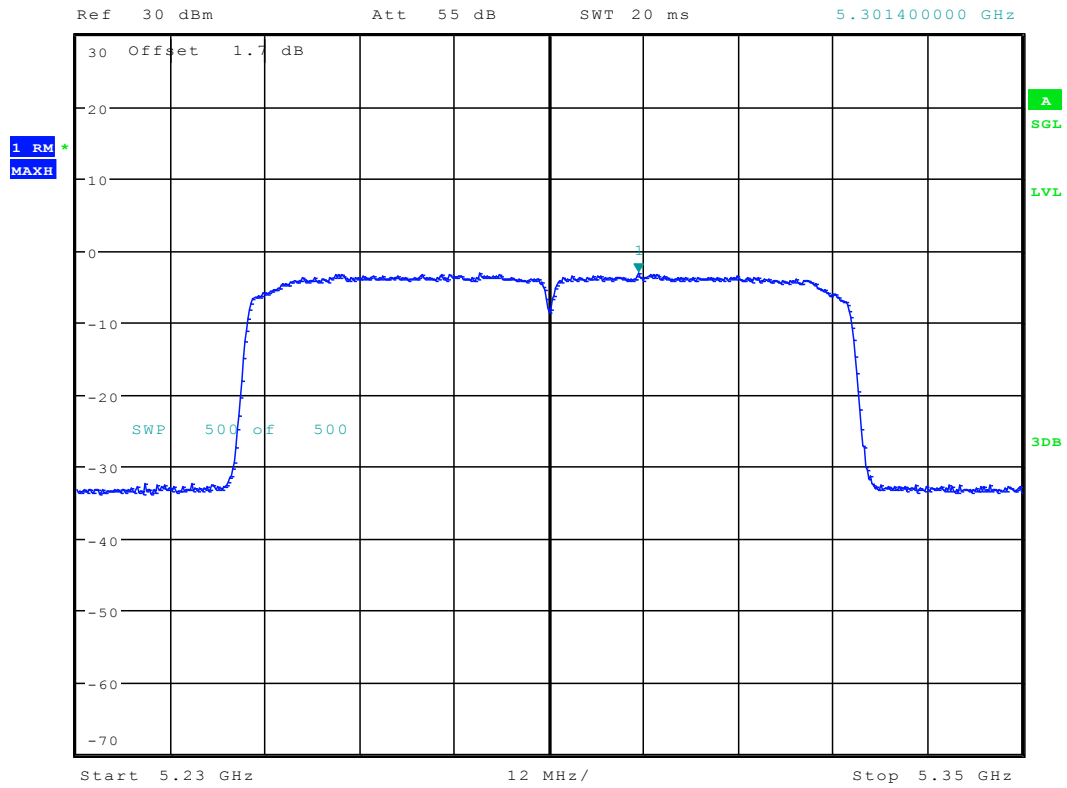
Date: 11.DEC.2017 15:37:27



11.47 11AC80_58 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.05 dBm
SWT 20 ms 5.301400000 GHz



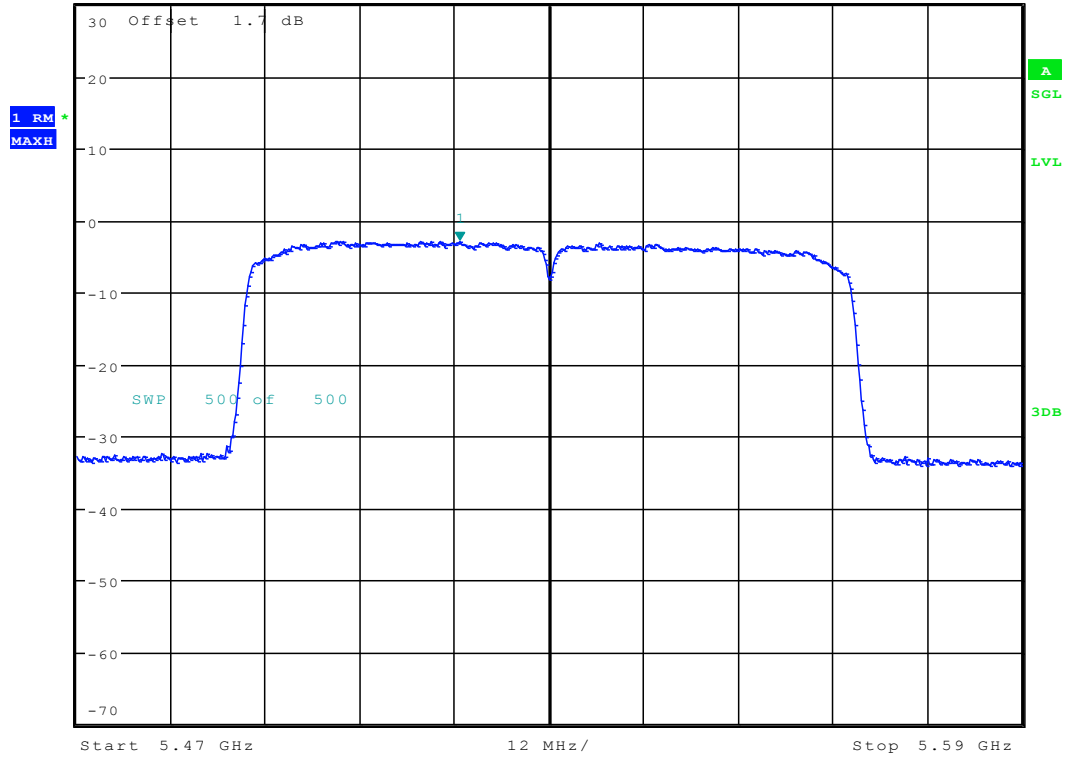
Date: 11.DEC.2017 15:42:57



11.48 11AC80_106 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -2.82 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.518600000 GHz



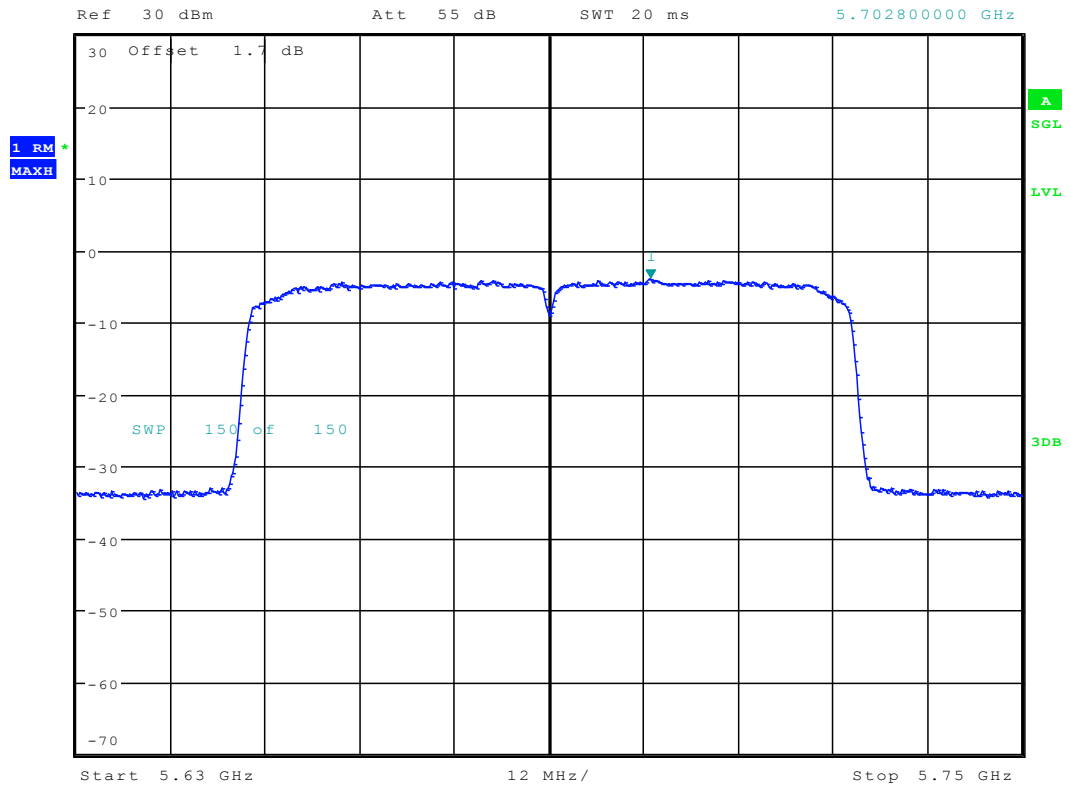
Date: 11.DEC.2017 15:47:31



11.49 11AC80_138 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.96 dBm
SWT 20 ms 5.702800000 GHz



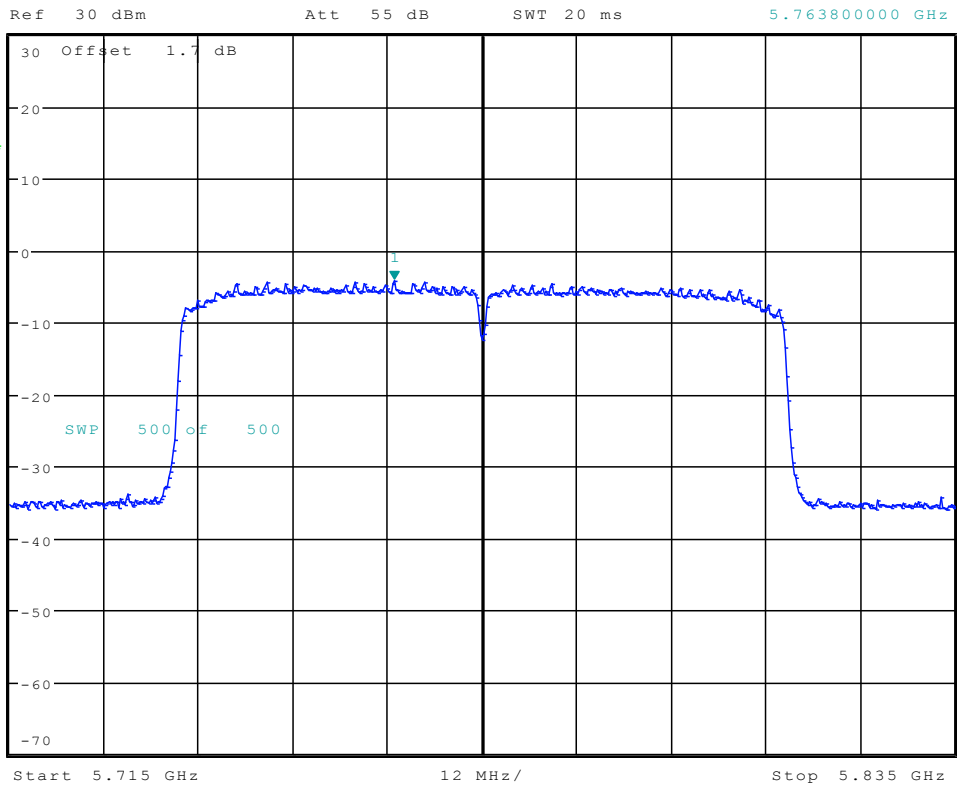
Date: 24.DEC.2017 14:41:53



11.50 11AC80_155 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz -4.22 dBm
 SWT 20 ms 5.763800000 GHz



Date: 11.DEC.2017 15:53:08



Appendix F: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Fequency (MHz)
	5180
V nom(V)	5180.0086
V max(V)	5180.0059
V min(V)	5180.0096
Max. Deviation Frequency	0.0096
Max. Frequency Error (ppm)	1.85

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Fequency (MHz)
	5180
-5	5180.0081
5	5180.0015
15	5180.0072
25	5180.0079
35	5180.0091
45	5180.0077
50	5180.0086
Max. Deviation Frequency	0.0091
Max. Frequency Error (ppm)	1.76



Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5825
V nom(V)	5825.0029
V max(V)	5825.0066
V min(V)	5825.0065
Max. Deviation Frequency	0.0066
Max. Frequency Error (ppm)	1.13

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency (MHz)
	5825
-5	5825.0021
5	5825.0042
15	5825.0065
25	5825.0047
35	5825.0033
45	5825.0045
50	5825.0041
Max. Deviation Frequency	0.0065
Max. Frequency Error (ppm)	1.12

END