



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	19.96	PASS
	48	5240	ANT 1	20.12	PASS
	52	5260	ANT 1	19.90	PASS
	64	5320	ANT 1	19.94	PASS
	100	5500	ANT 1	19.92	PASS
	140	5700	ANT 1	19.94	PASS
11N20	36	5180	ANT 1	20.48	PASS
	48	5240	ANT 1	20.46	PASS
	52	5260	ANT 1	20.60	PASS
	64	5320	ANT 1	20.52	PASS
	100	5500	ANT 1	20.54	PASS
	140	5700	ANT 1	20.52	PASS
11N40	38	5190	ANT 1	39.68	PASS
	46	5230	ANT 1	39.64	PASS
	54	5270	ANT 1	40.06	PASS
	62	5310	ANT 1	39.62	PASS
	102	5510	ANT 1	39.82	PASS
	134	5670	ANT 1	39.52	PASS
11AC20	36	5180	ANT 1	20.46	PASS
	48	5240	ANT 1	20.42	PASS
	52	5260	ANT 1	20.48	PASS
	64	5320	ANT 1	20.42	PASS
	100	5500	ANT 1	20.48	PASS
	140	5700	ANT 1	20.50	PASS
11AC40	38	5190	ANT 1	39.54	PASS
	46	5230	ANT 1	39.66	PASS
	54	5270	ANT 1	39.46	PASS
	62	5310	ANT 1	39.46	PASS
	102	5510	ANT 1	39.72	PASS
	134	5670	ANT 1	39.52	PASS
11AC80	42	5210	ANT 1	81.07	PASS
	58	5290	ANT 1	81.17	PASS
	106	5530	ANT 1	80.91	PASS
	122	5610	ANT 1	81.01	PASS



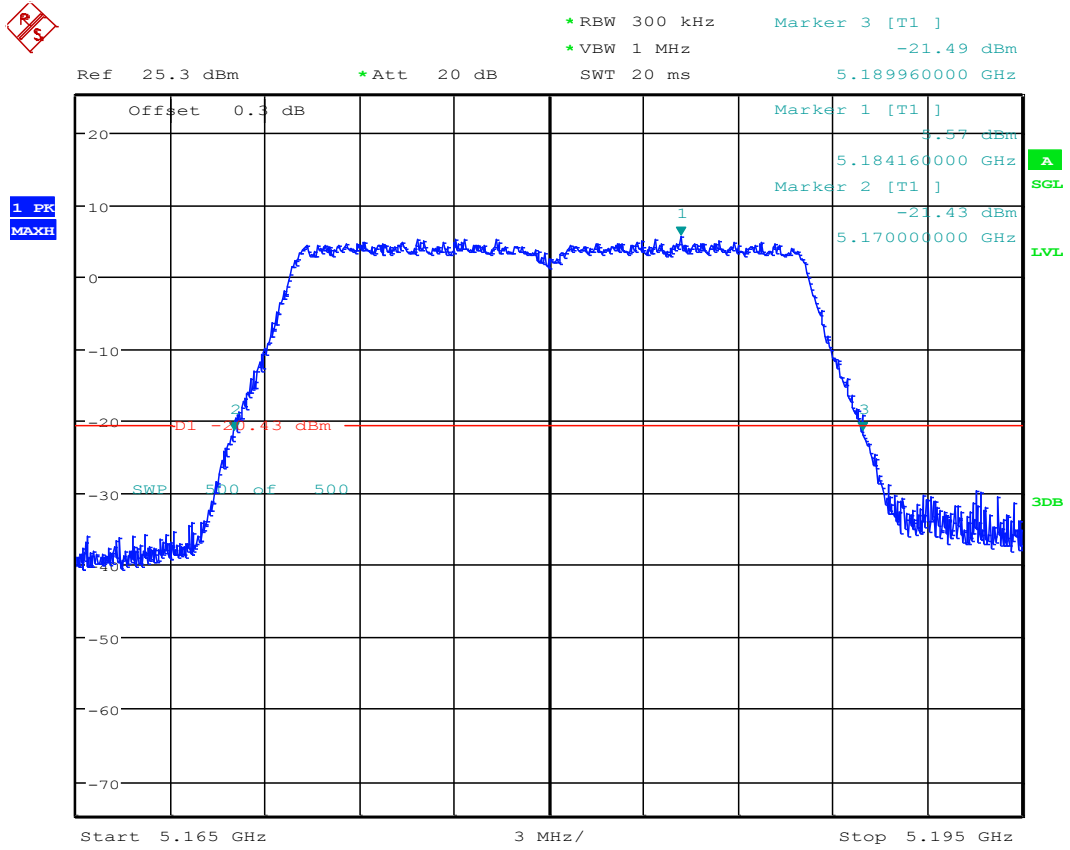
2 Result Table for 6dB Emission Bandwidth

Test Mode	Test Channel	Frequency [MHz]	ANT	6dB Emission Bandwidth [MHz]	Verdict
11A20	149	5745	ANT 1	16.40	PASS
	165	5825	ANT 1	16.40	PASS
11N20	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11N40	151	5755	ANT 1	35.70	PASS
	159	5795	ANT 1	35.58	PASS
11AC20	149	5745	ANT 1	17.64	PASS
	165	5825	ANT 1	17.64	PASS
11AC40	151	5755	ANT 1	35.70	PASS
	159	5795	ANT 1	35.68	PASS
11AC80	155	5775	ANT 1	75.25	PASS



3 Test Plot for 26dB Emission Bandwidth

3.1 11A20_36 ANT 1



Date: 16.JUL.2018 09:41:07



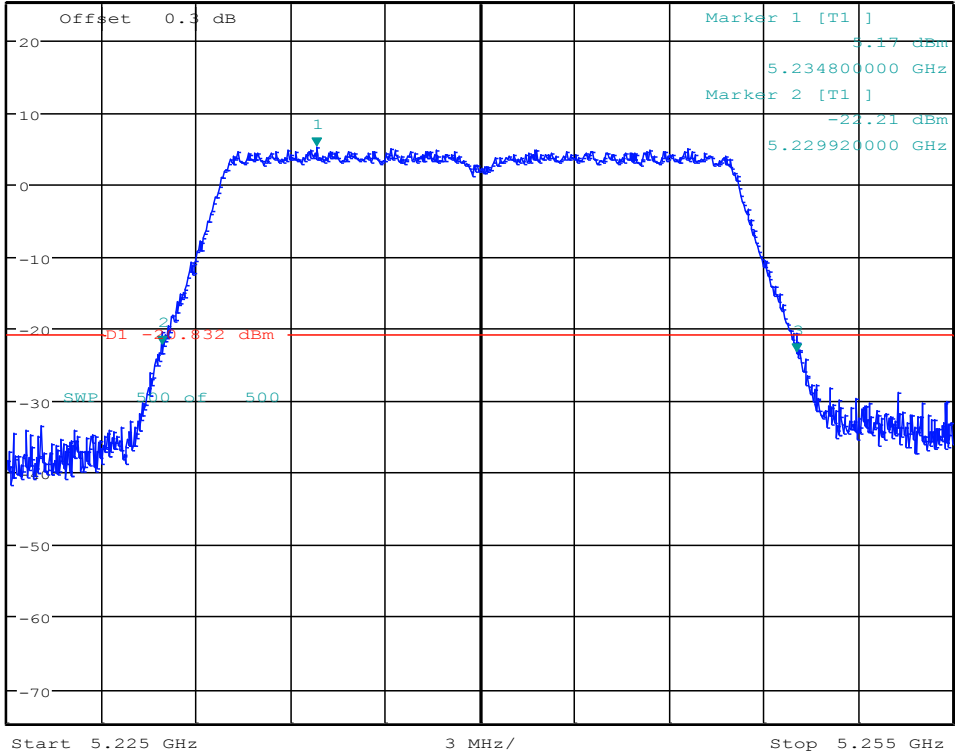
3.2 11A20_48 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -23.31 dBm
 SWT 20 ms 5.250040000 GHz

Ref 25.3 dBm *Att 20 dB

1 PK
MAXH



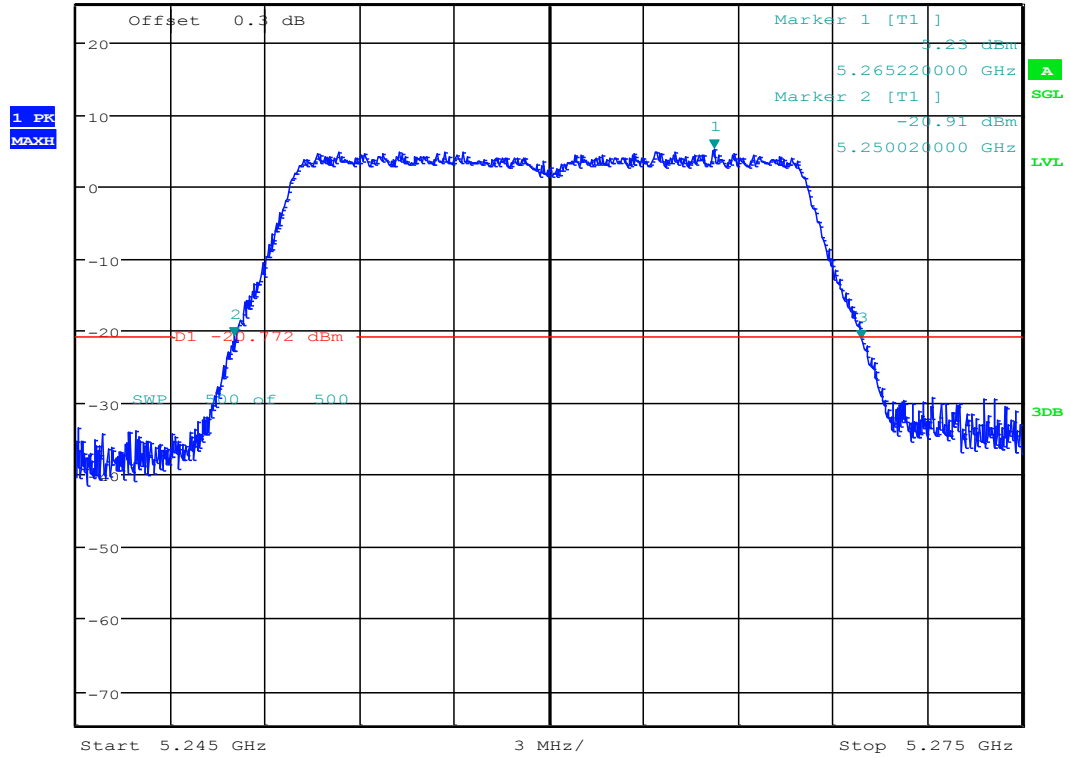
Date: 16.JUL.2018 09:47:50



3.3 11A20_52 ANT 1

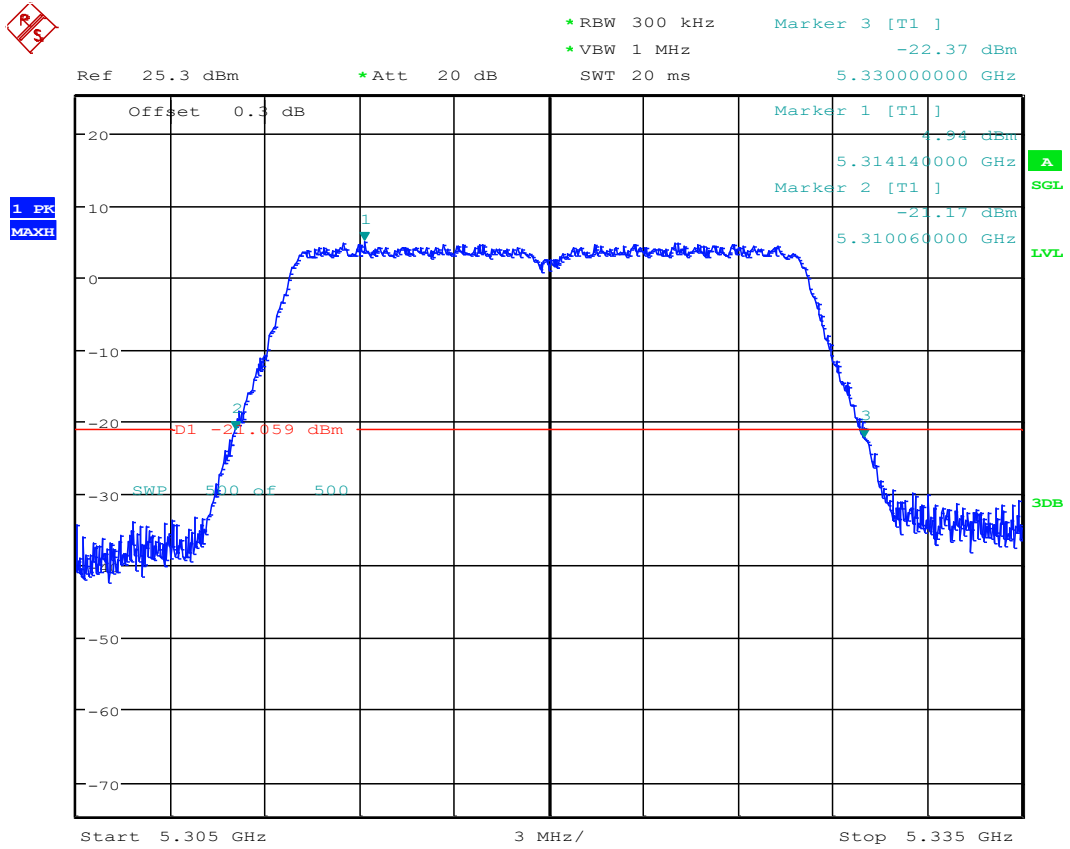


*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -21.33 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.269920000 GHz



Date: 16.JUL.2018 09:56:37

3.4 11A20_64 ANT 1



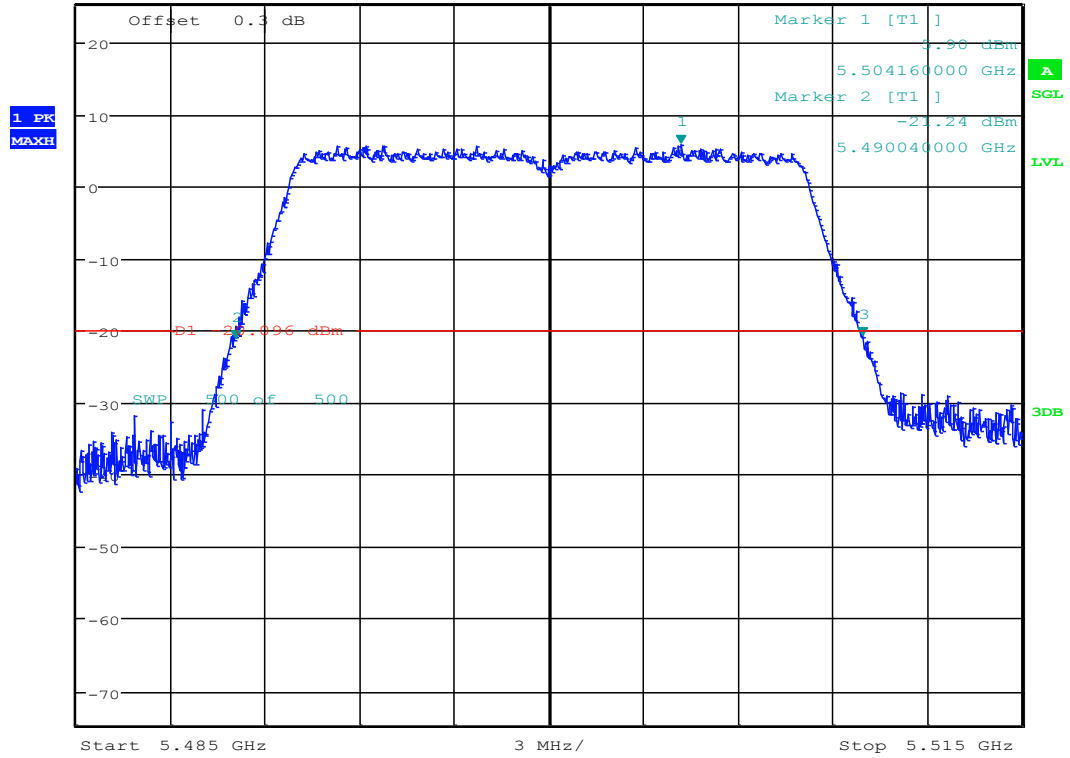
Date: 16.JUL.2018 10:01:54



3.5 11A20_100 ANT 1

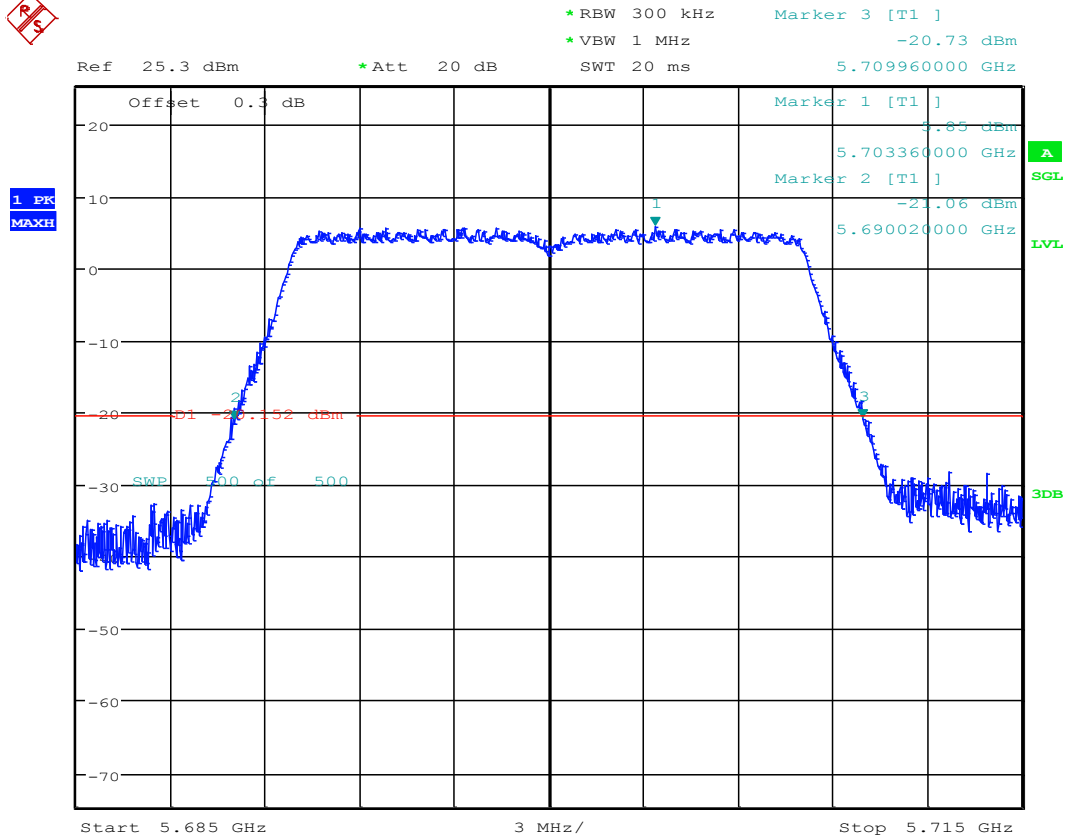


*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -20.89 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.509960000 GHz



Date: 16.JUL.2018 10:09:30

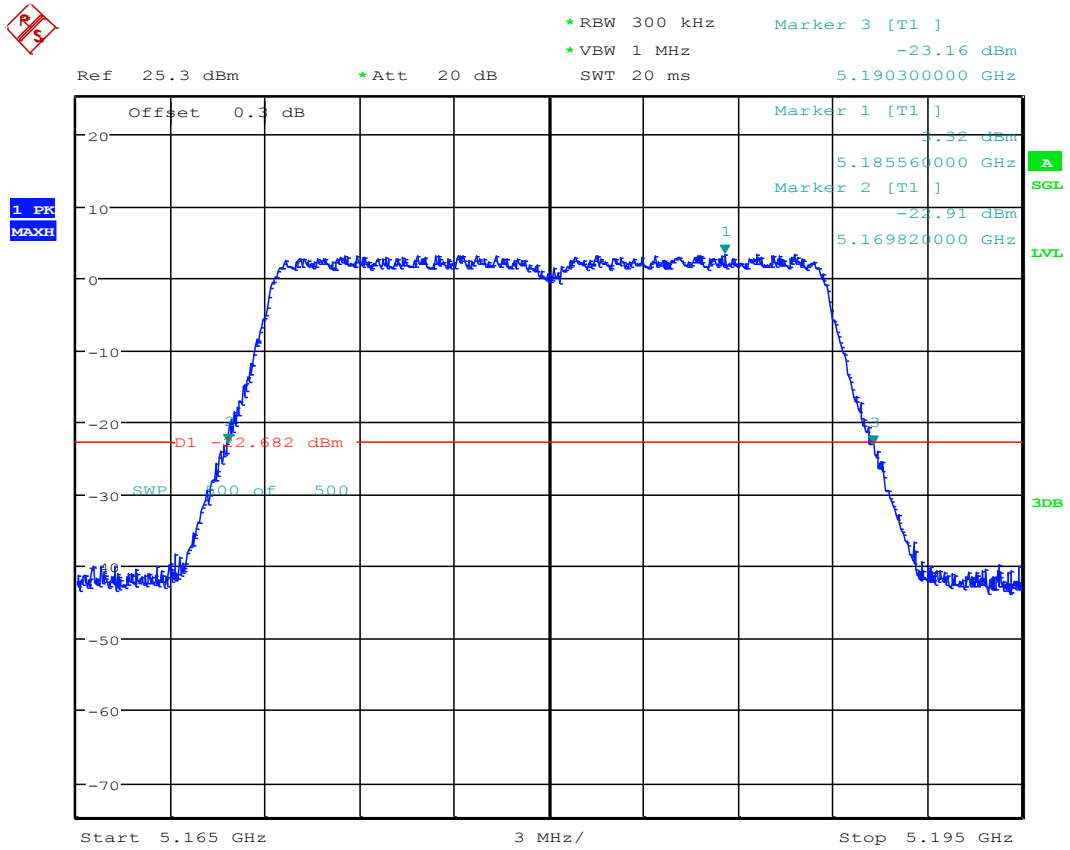
3.6 11A20_140 ANT 1



Date: 16.JUL.2018 10:13:32



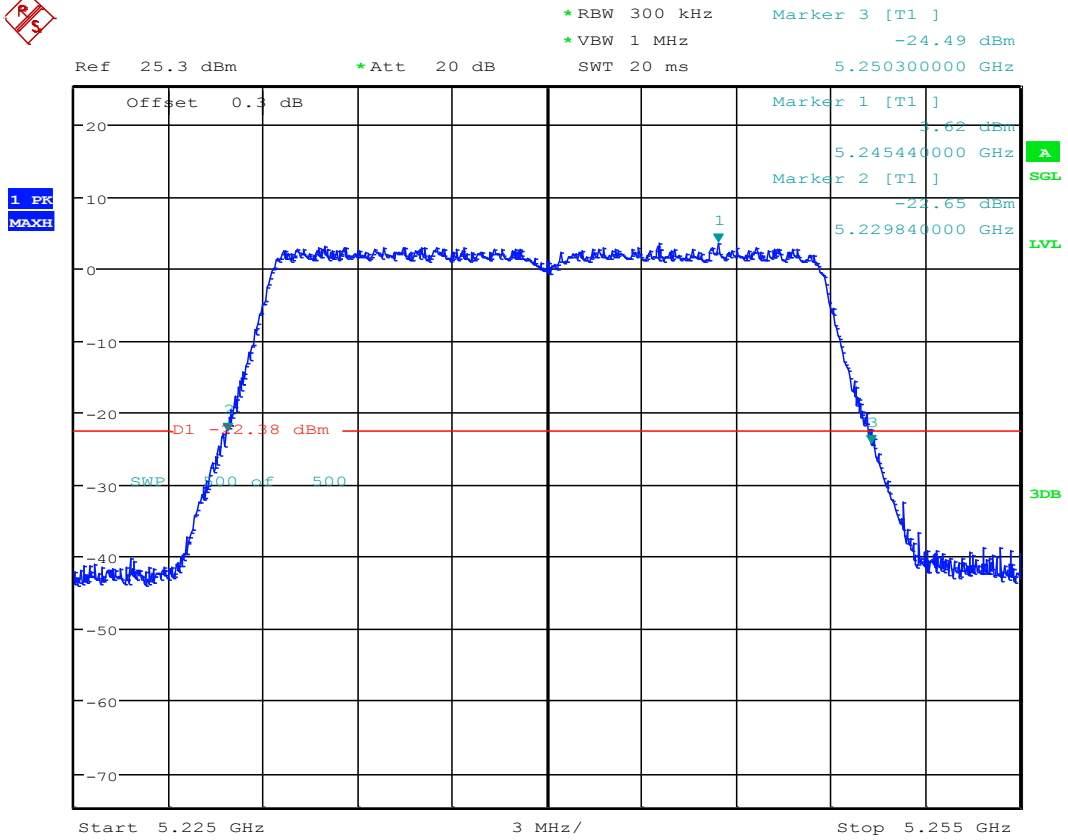
3.7 11N20_36 ANT 1



Date: 16.JUL.2018 13:42:53



3.8 11N20_48 ANT 1



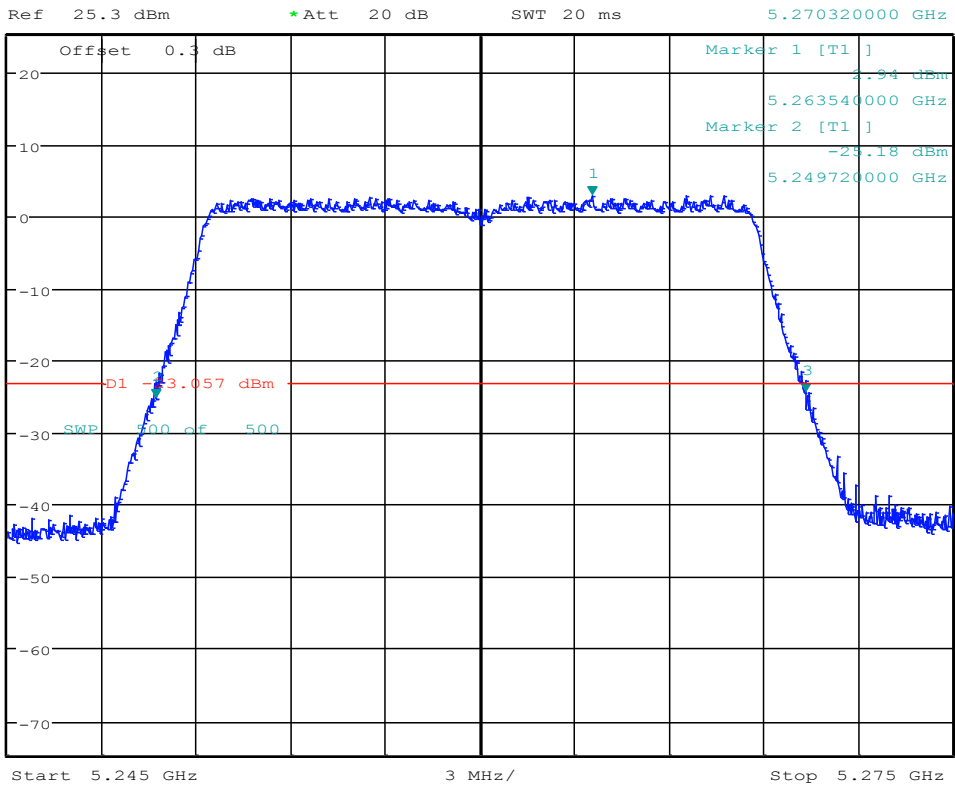
Date: 16.JUL.2018 13:51:11



3.9 11N20_52 ANT 1



*RBW 300 kHz Marker 3 [T1]
*VBW 1 MHz -24.41 dBm
SWT 20 ms 5.270320000 GHz



Date: 16.JUL.2018 13:55:50



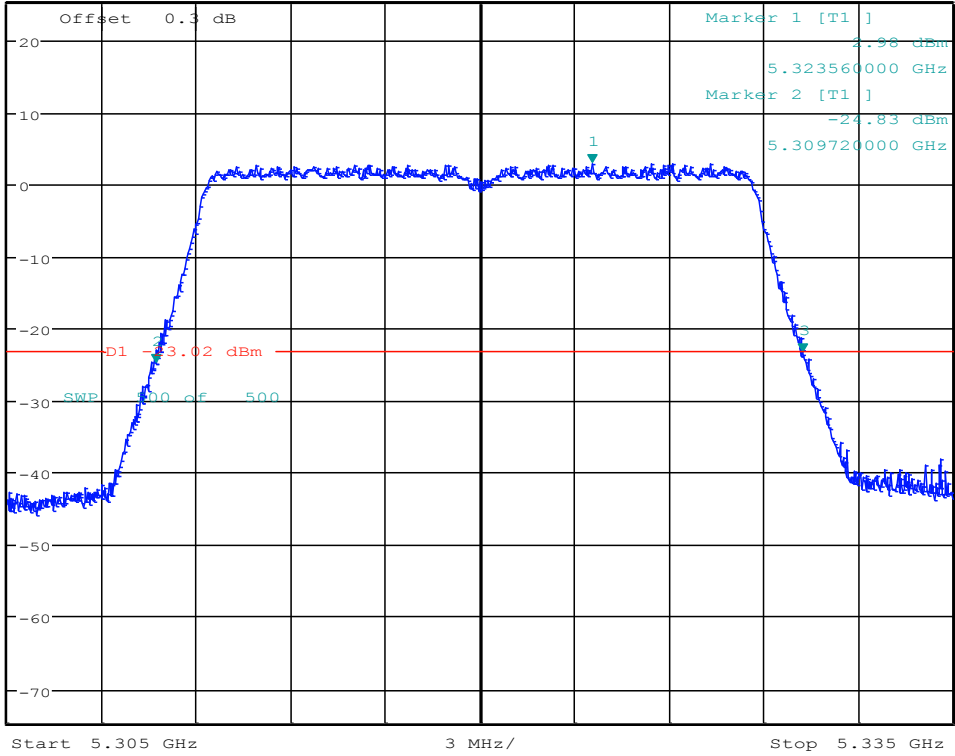
3.10 11N20_64 ANT 1



*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -23.29 dBm
 SWT 20 ms 5.330240000 GHz

Ref 25.3 dBm *Att 20 dB

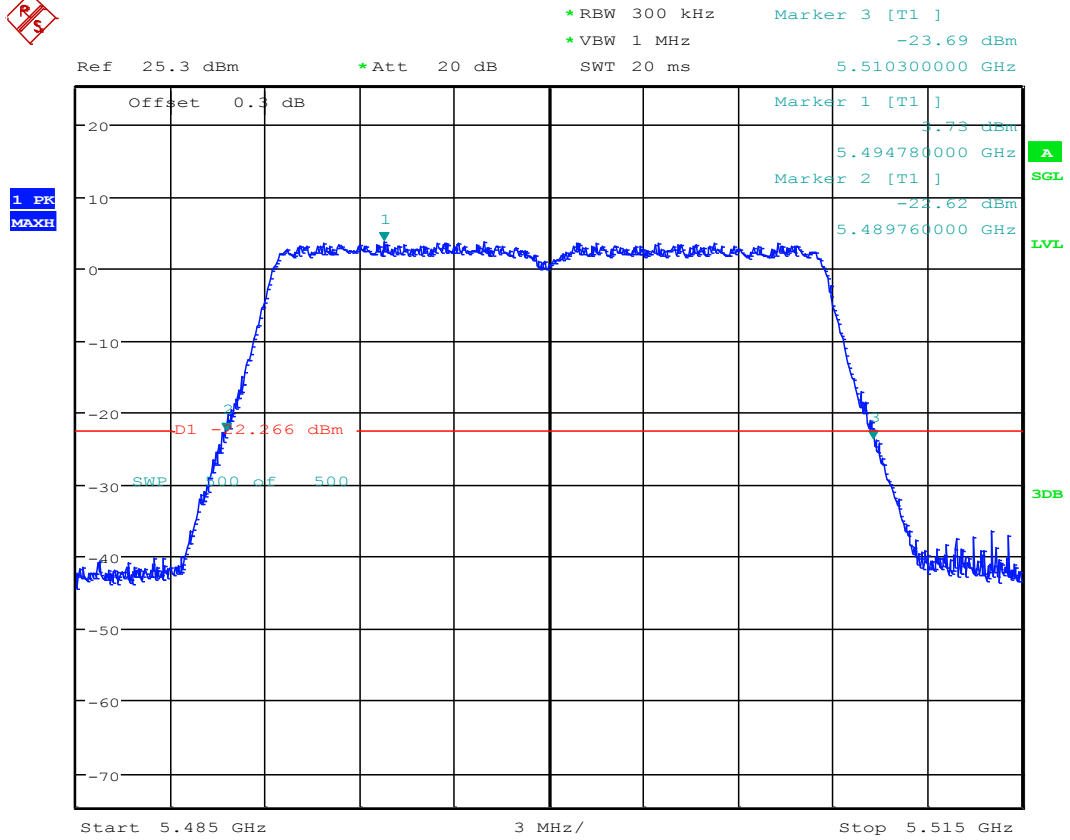
1 PK
MAXH



Date: 16.JUL.2018 14:01:26



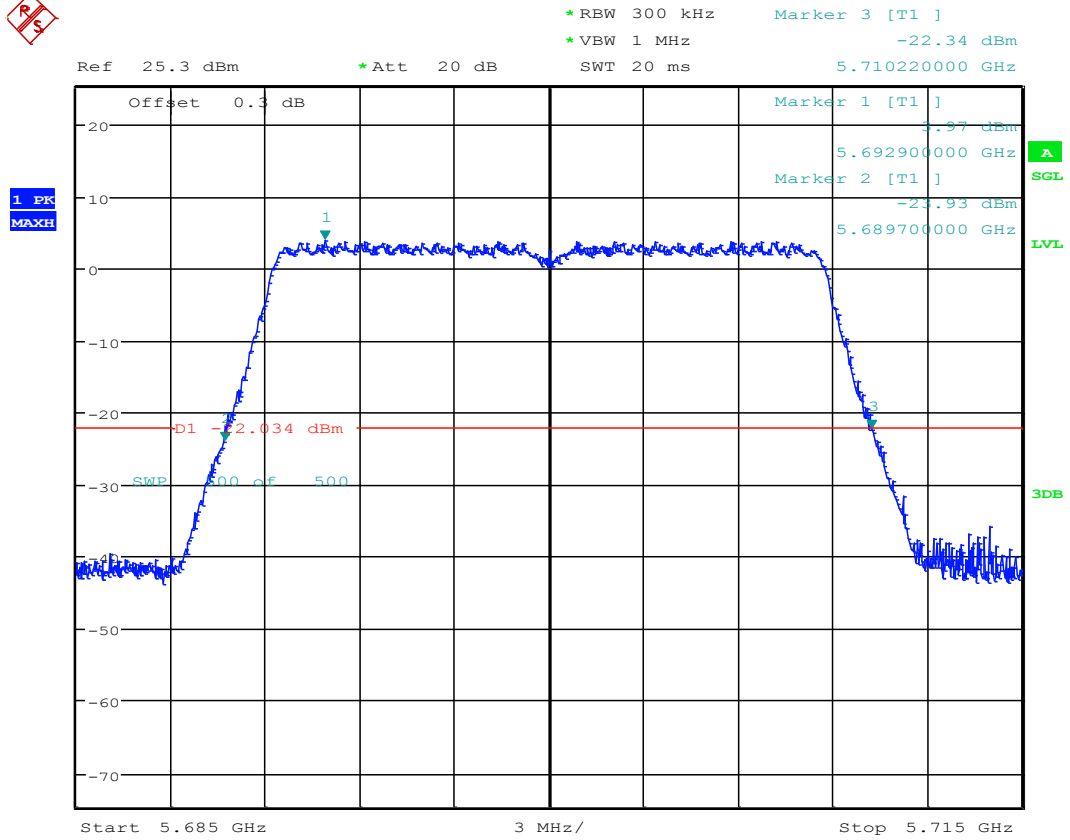
3.11 11N20_100 ANT 1



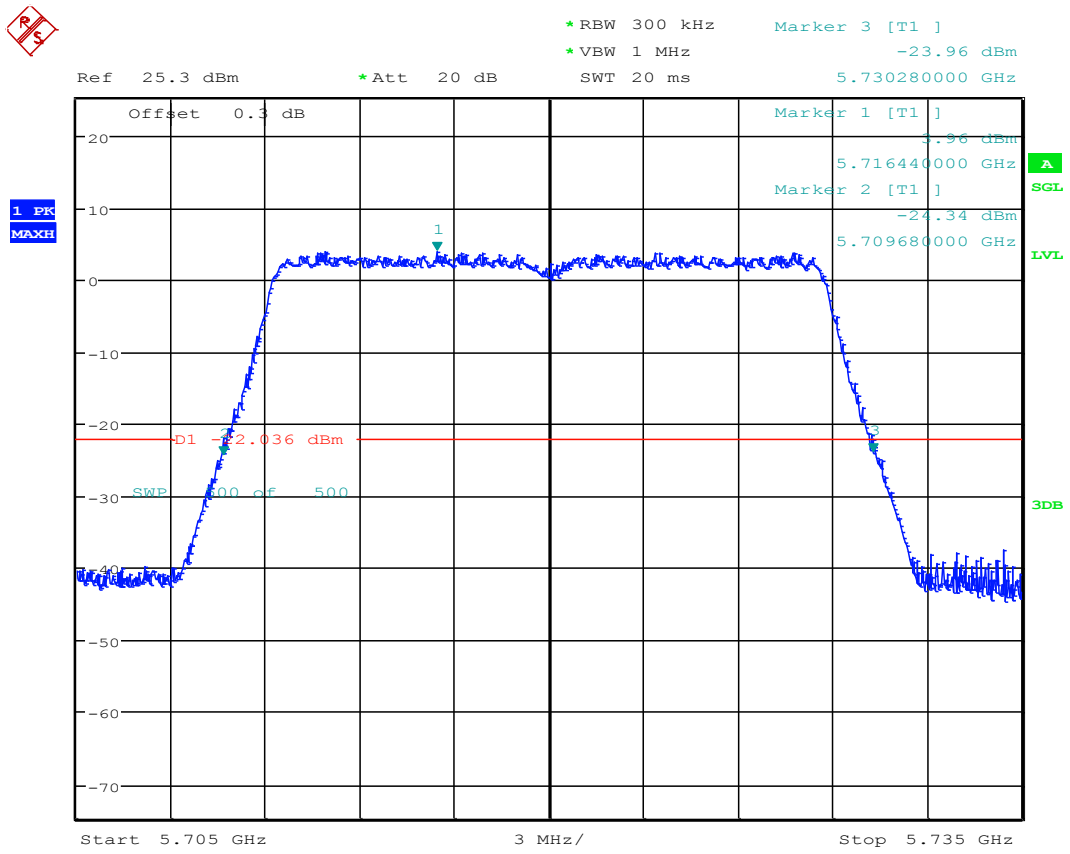
Date: 16.JUL.2018 14:05:37



3.12 11N20_140 ANT 1



Date: 16.JUL.2018 14:09:59



Date: 16.JUL.2018 14:14:50

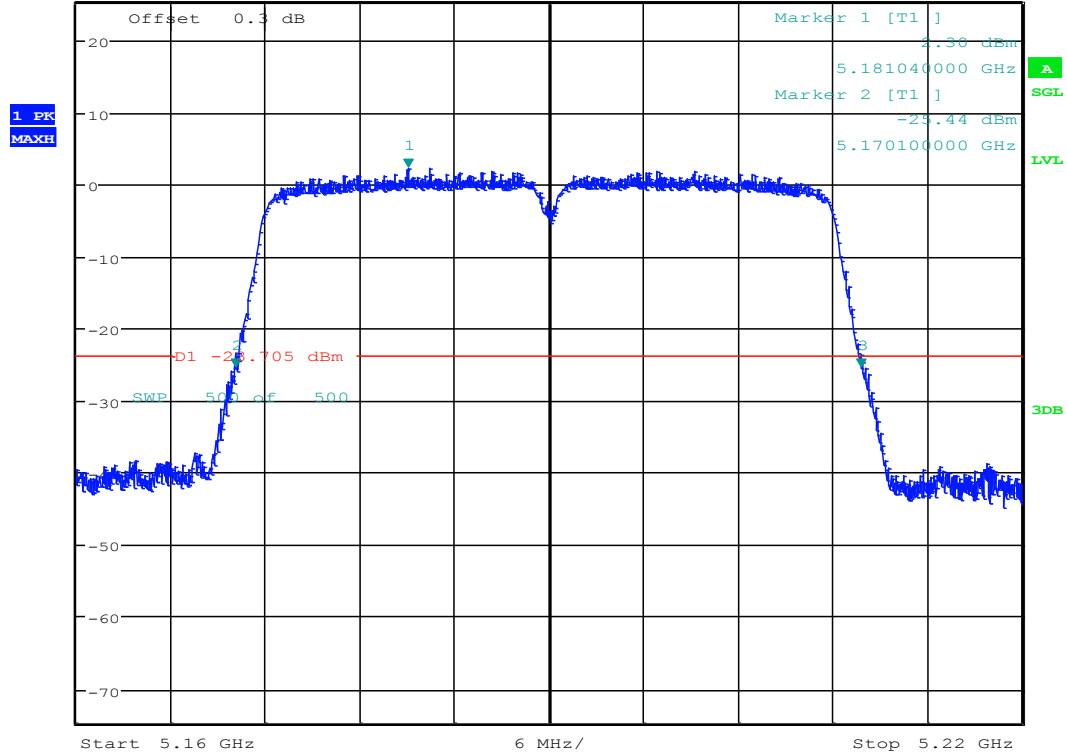


3.13 11N40_38 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -25.48 dBm
 SWT 20 ms 5.209780000 GHz

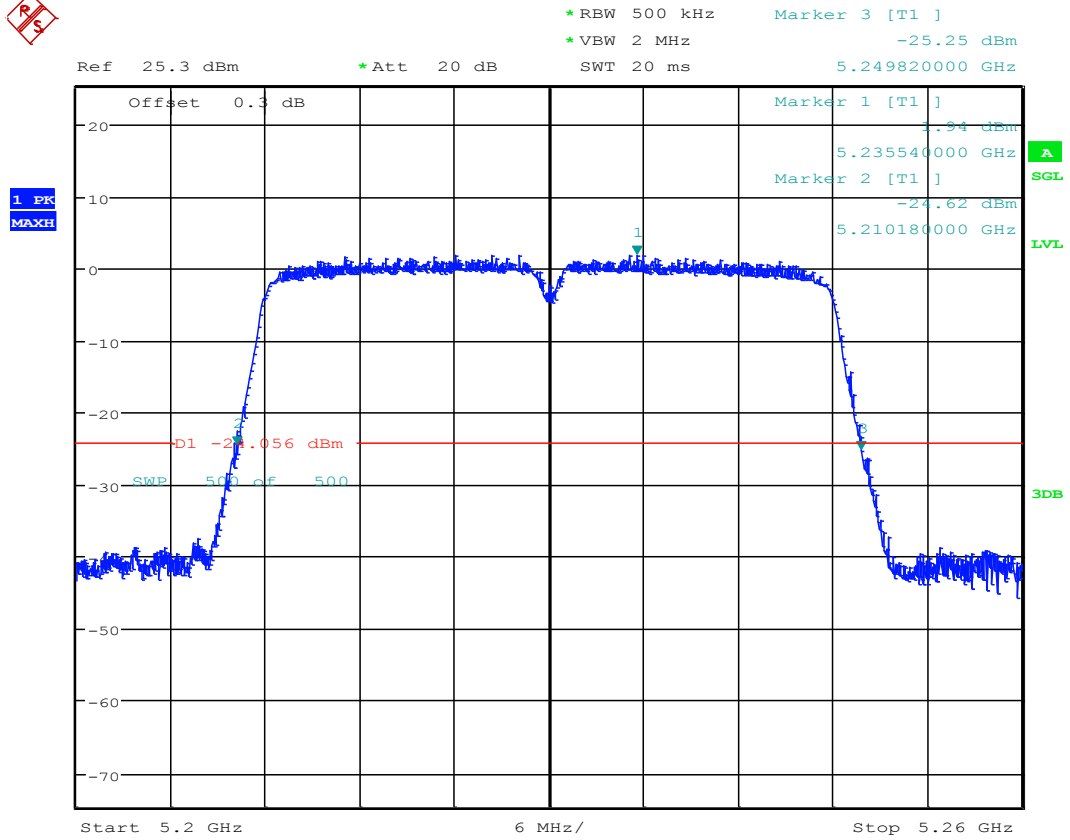
Ref 25.3 dBm *Att 20 dB



Date: 16.JUL.2018 14:30:01



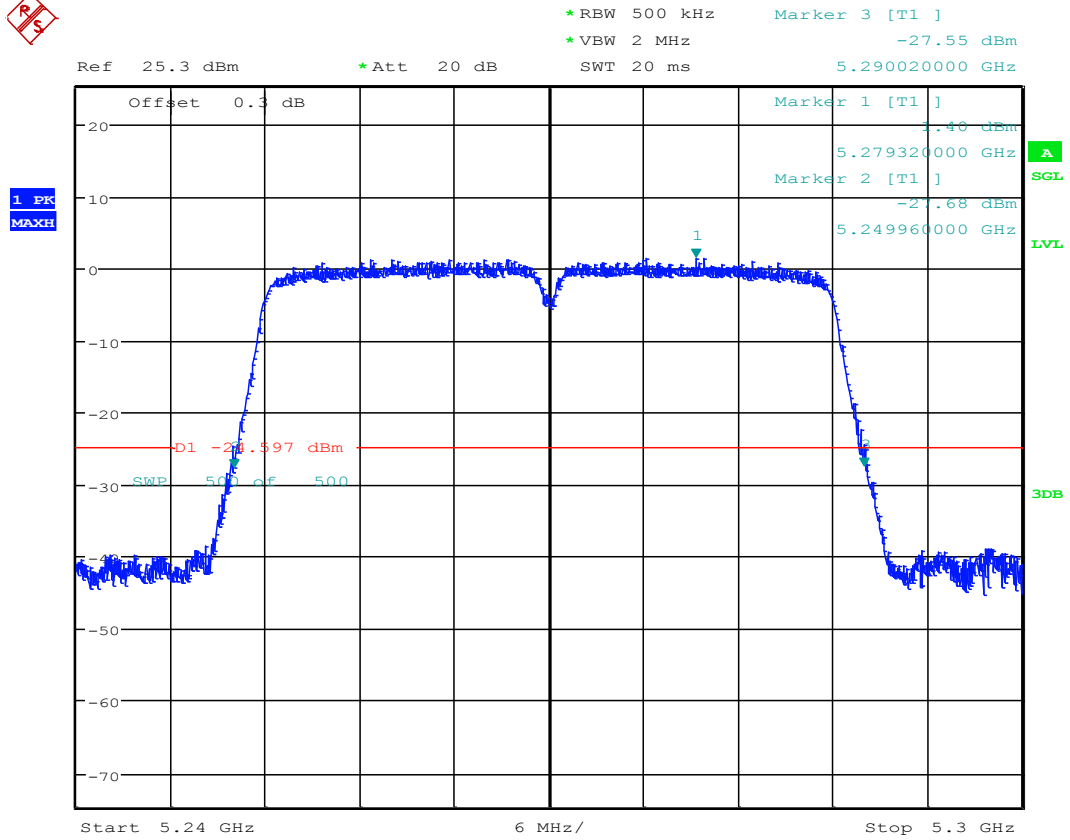
3.14 11N40_46 ANT 1



Date: 16.JUL.2018 14:34:41



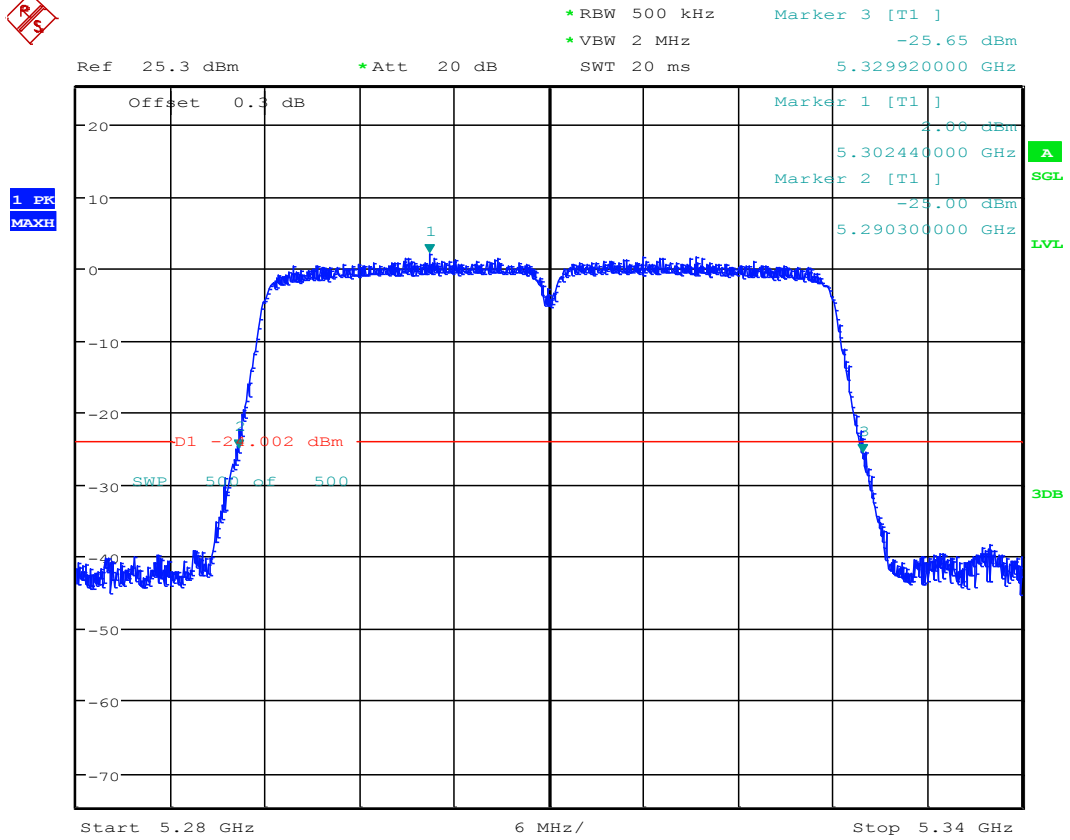
3.15 11N40_54 ANT 1



Date: 16.JUL.2018 14:38:55



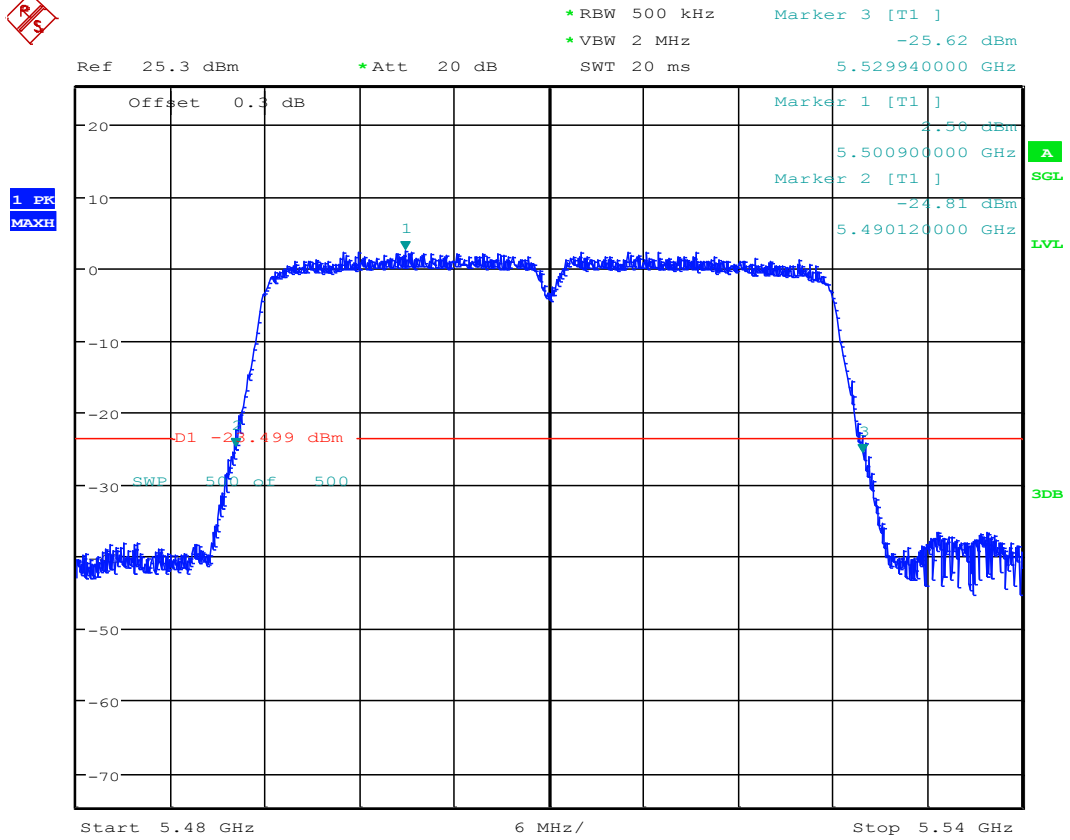
3.16 11N40_62 ANT 1



Date: 16.JUL.2018 14:42:38



3.17 11N40_102 ANT 1



Date: 16.JUL.2018 14:46:49

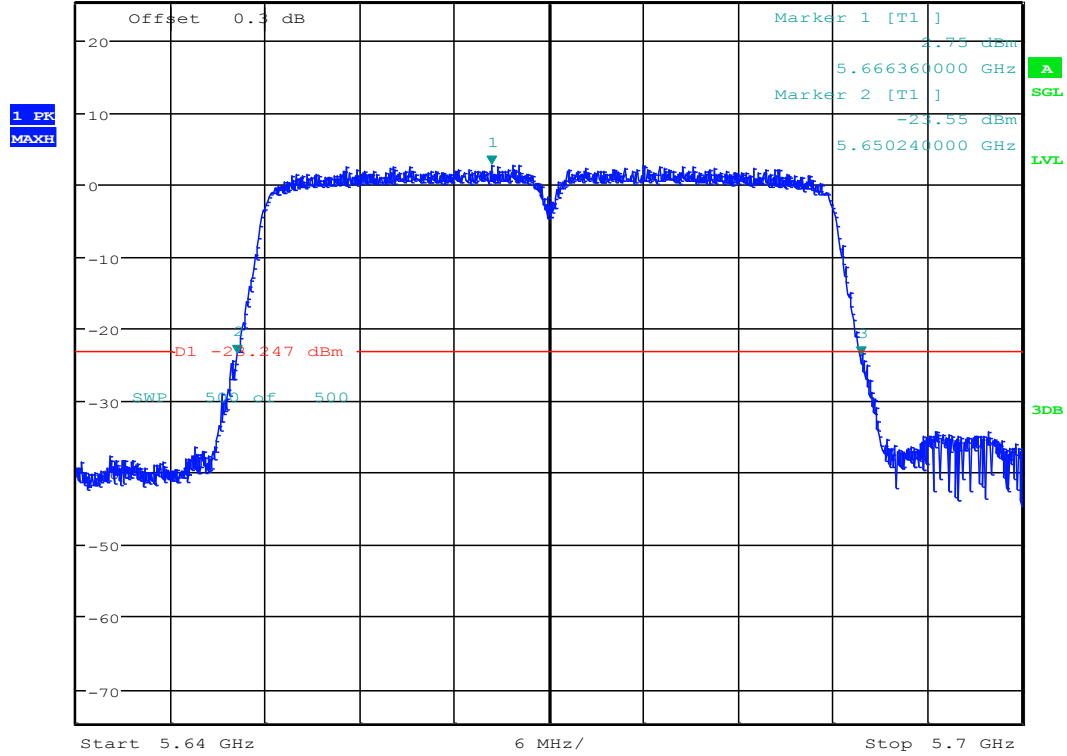


3.18 11N40_134 ANT 1



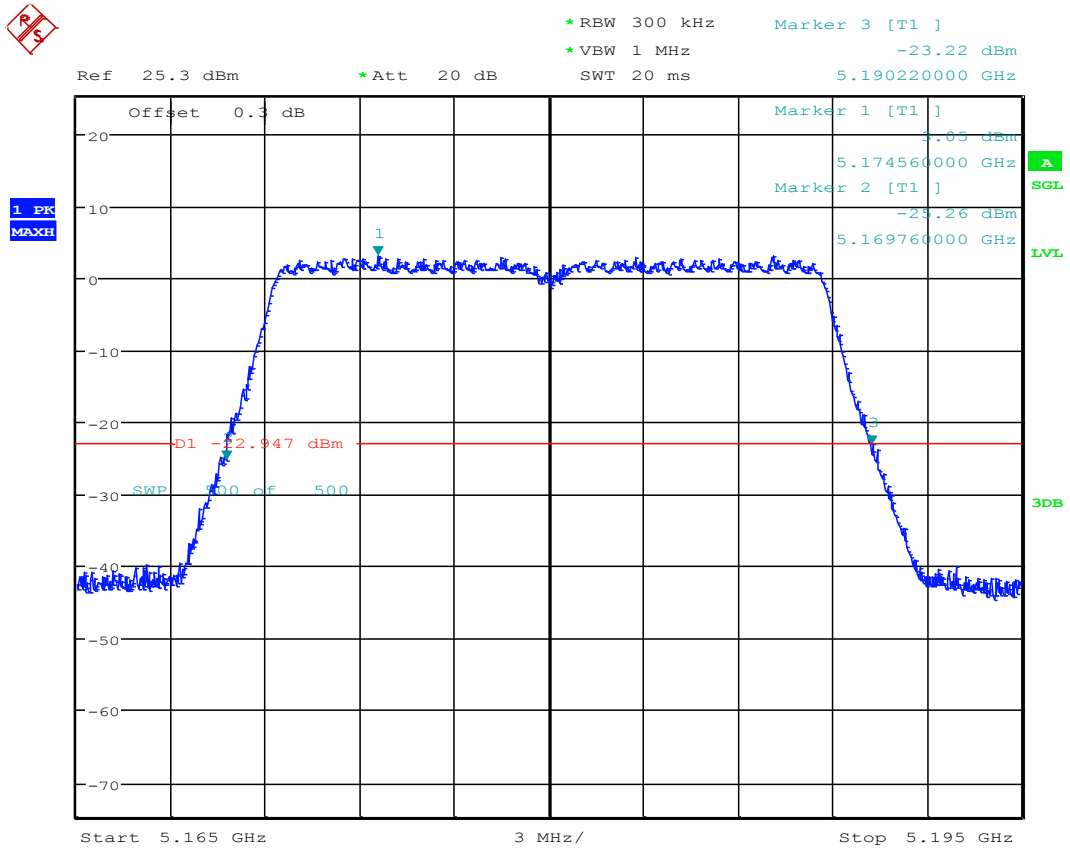
*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -23.66 dBm
 SWT 20 ms 5.689760000 GHz

Ref 25.3 dBm *Att 20 dB



Date: 16.JUL.2018 14:50:54

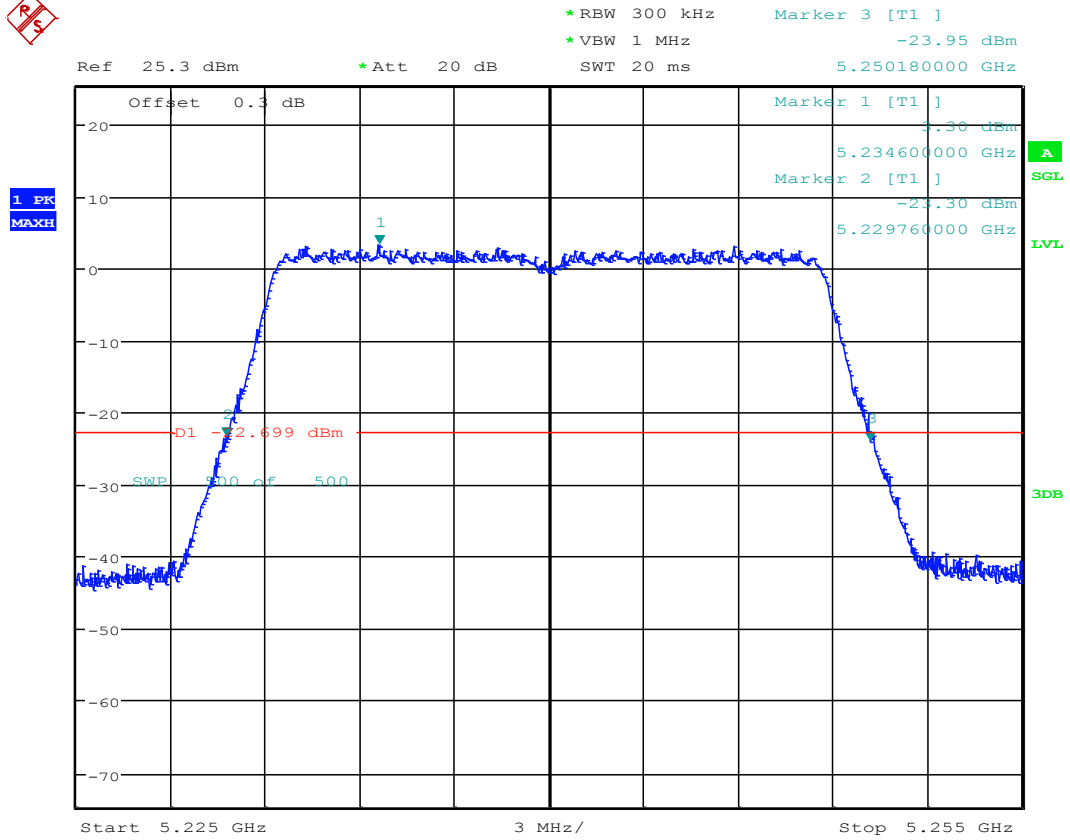
3.19 11AC20_36 ANT 1



Date: 16.JUL.2018 15:09:00



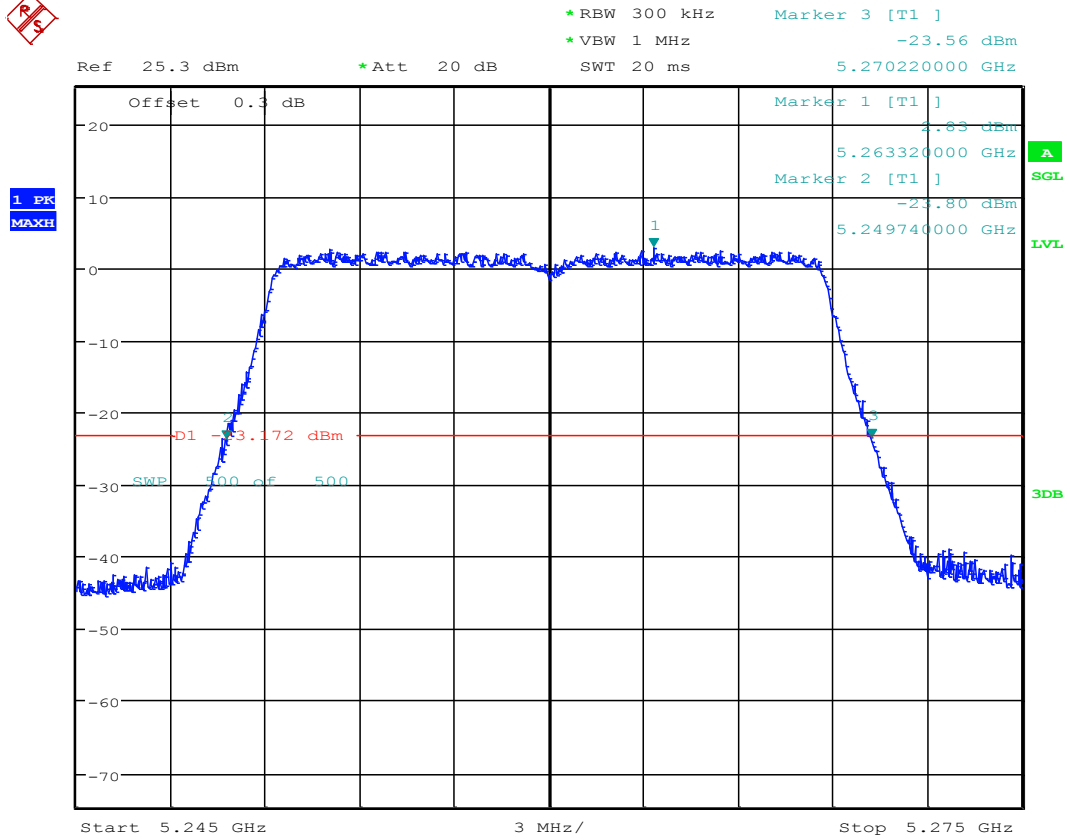
3.20 11AC20_48 ANT 1



Date: 16.JUL.2018 15:12:38



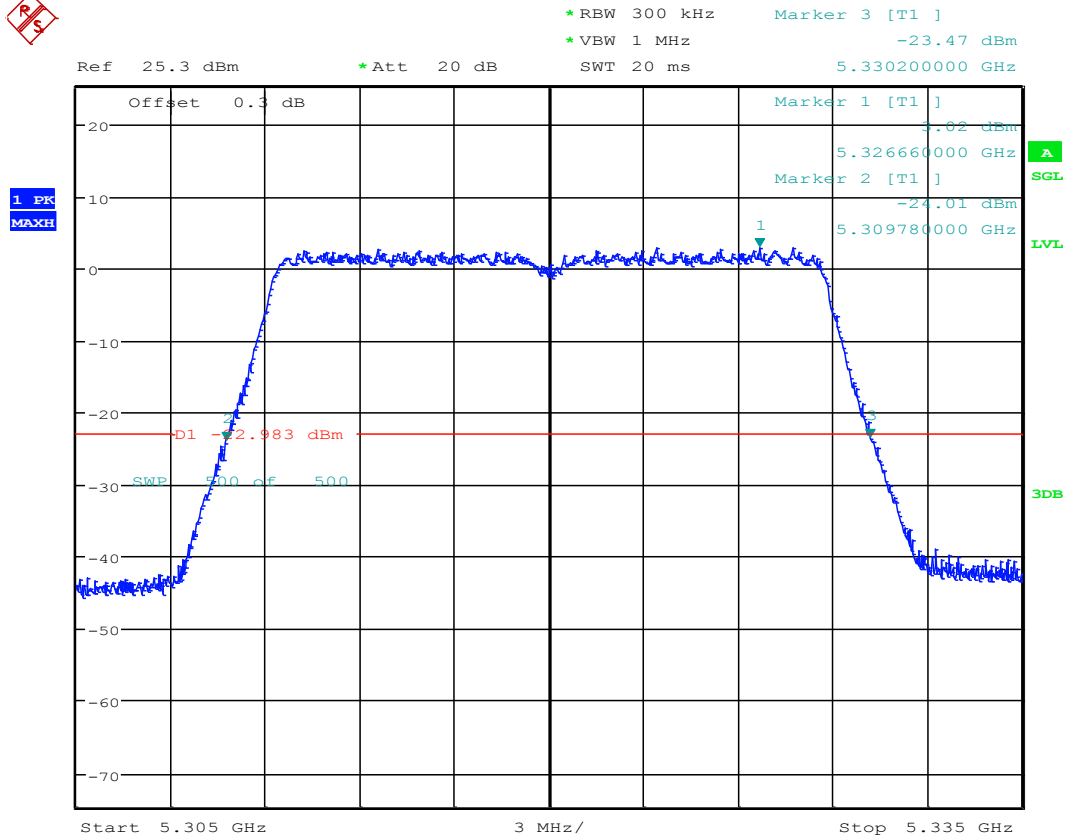
3.21 11AC20_52 ANT 1



Date: 16.JUL.2018 15:17:02



3.22 11AC20_64 ANT 1



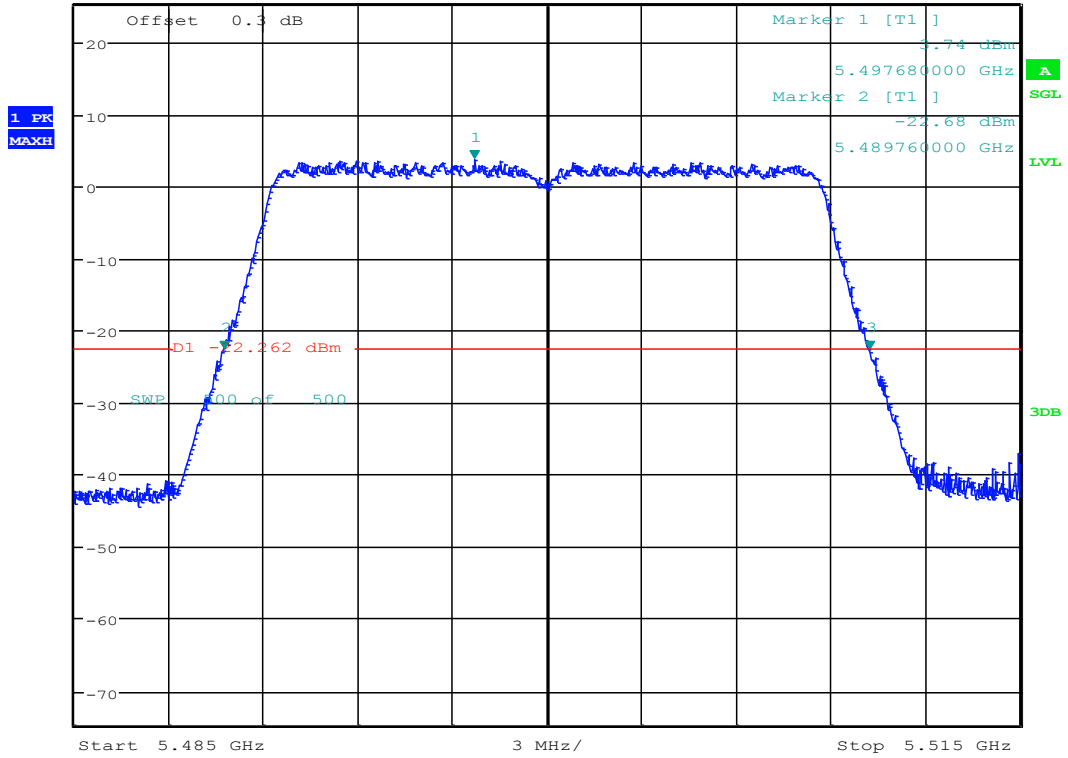
Date: 16.JUL.2018 15:23:25



3.23 11AC20_100 ANT 1



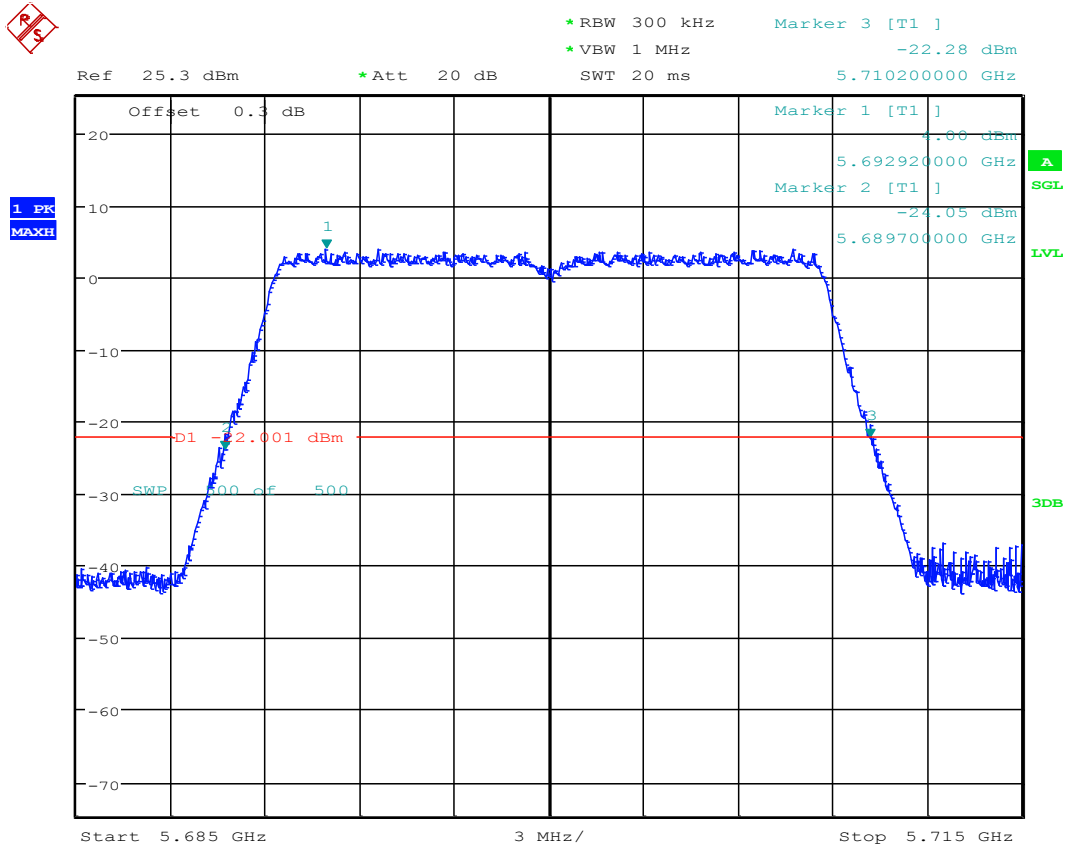
*RBW 300 kHz Marker 3 [T1]
 *VBW 1 MHz -22.80 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.510240000 GHz



Date: 16.JUL.2018 15:26:54



3.24 11AC20_140 ANT 1



Date: 16.JUL.2018 15:30:56



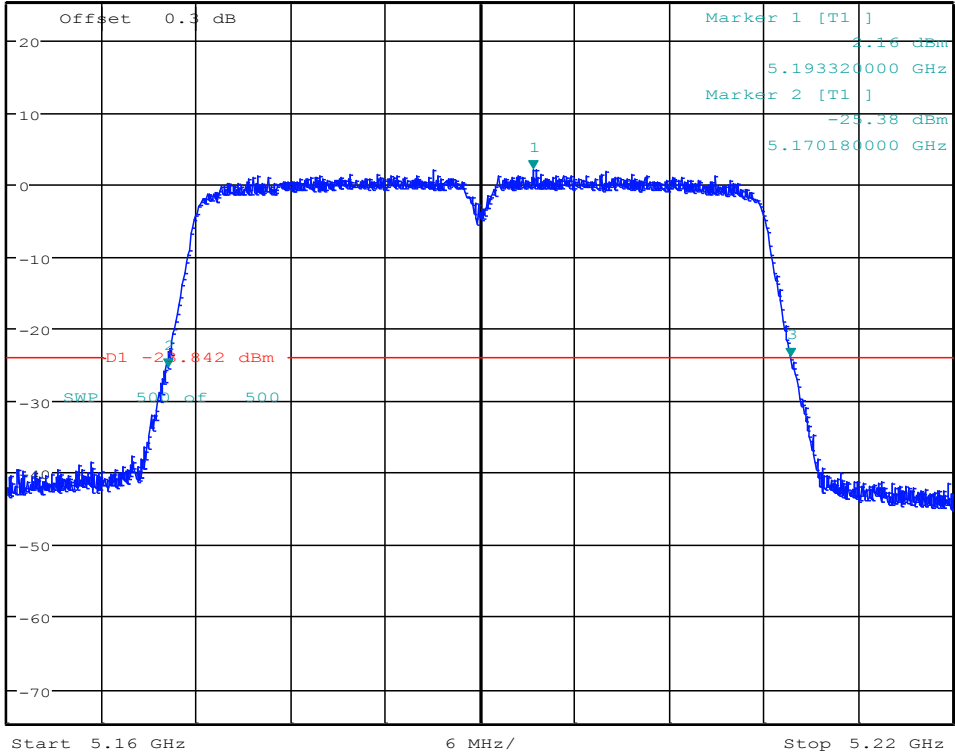
3.25 11AC40_38 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -24.03 dBm
 SWT 20 ms 5.209720000 GHz

Ref 25.3 dBm *Att 20 dB

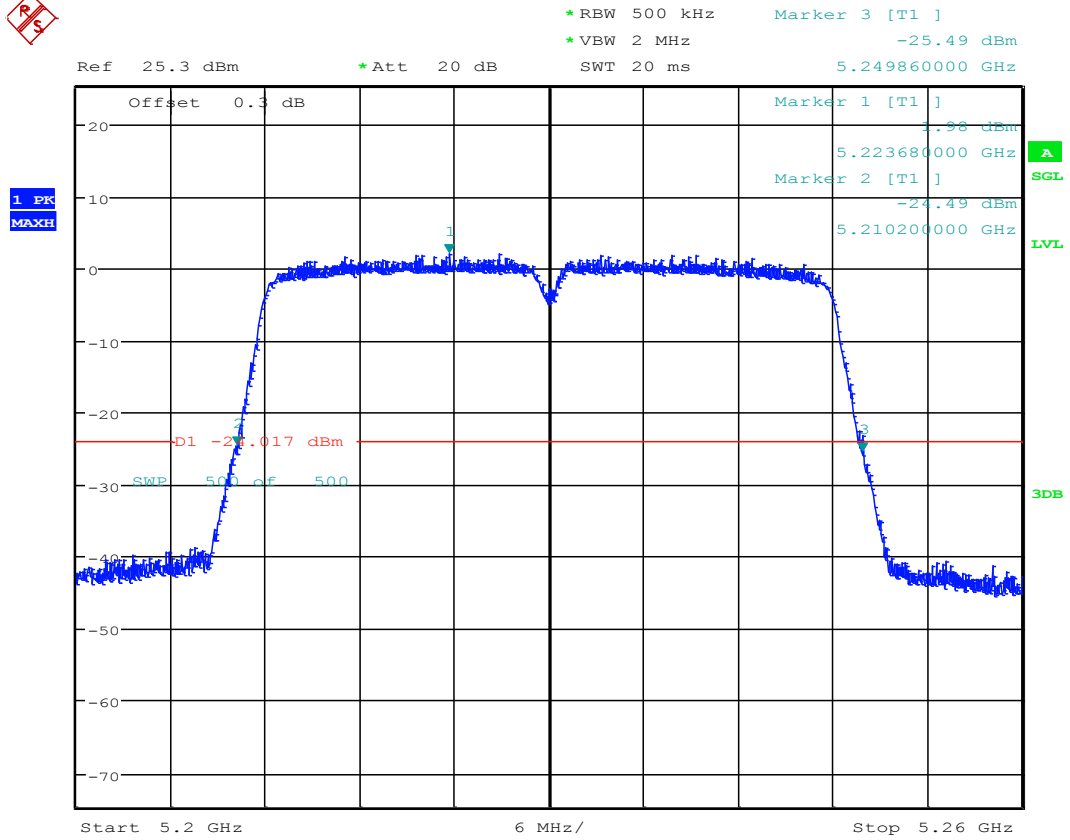
1 PK
MAXH



Date: 16.JUL.2018 15:54:09



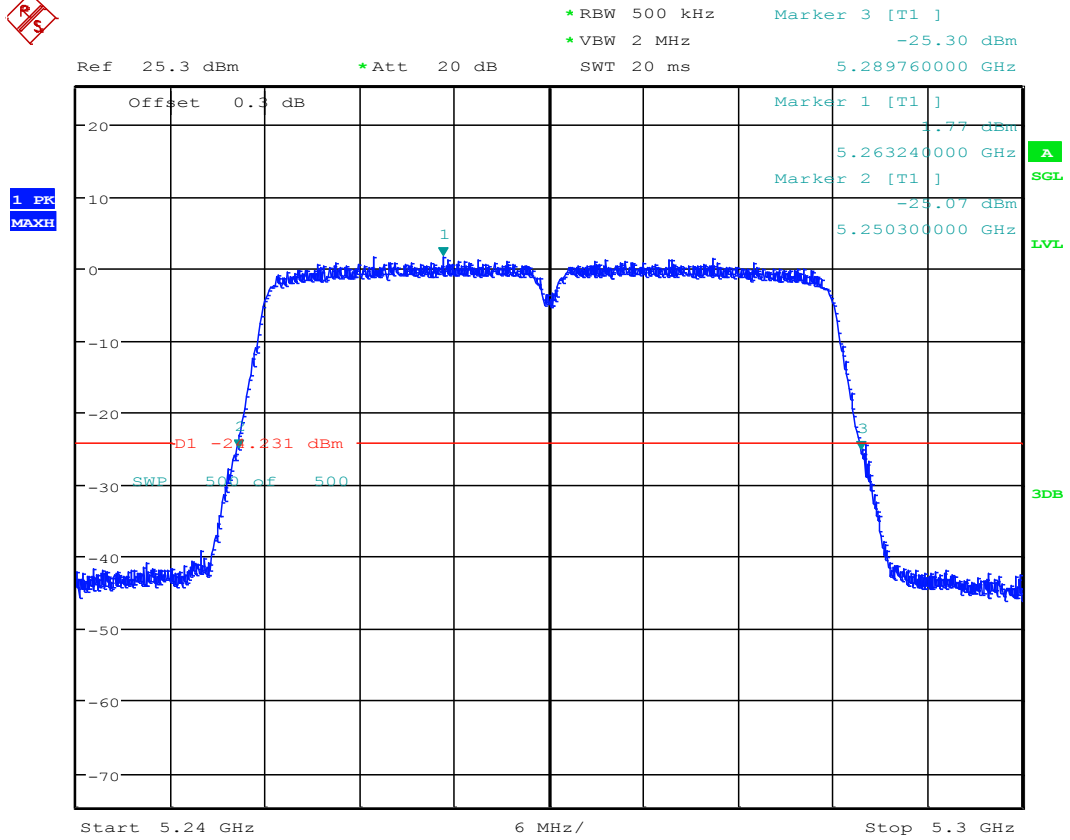
3.26 11AC40_46 ANT 1



Date: 16.JUL.2018 15:59:37



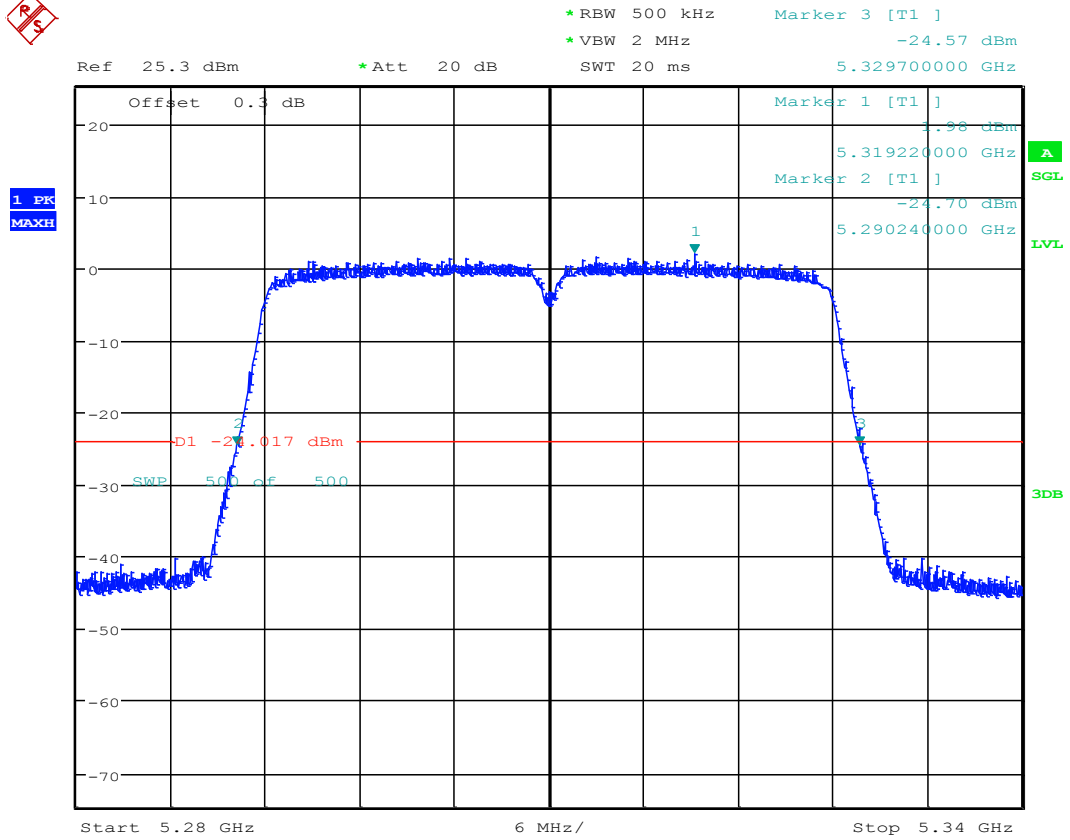
3.27 11AC40_54 ANT 1



Date: 16.JUL.2018 16:05:28



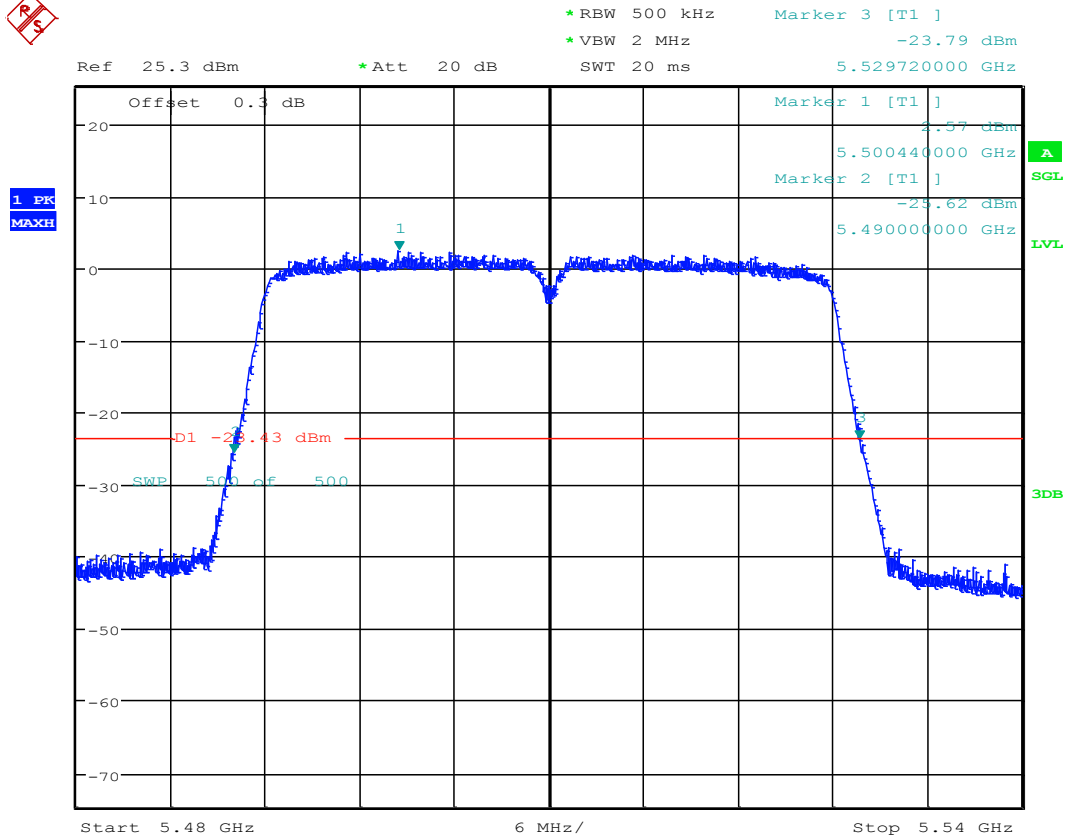
3.28 11AC40_62 ANT 1



Date: 16.JUL.2018 16:09:01



3.29 11AC40_102 ANT 1



Date: 16.JUL.2018 16:13:27

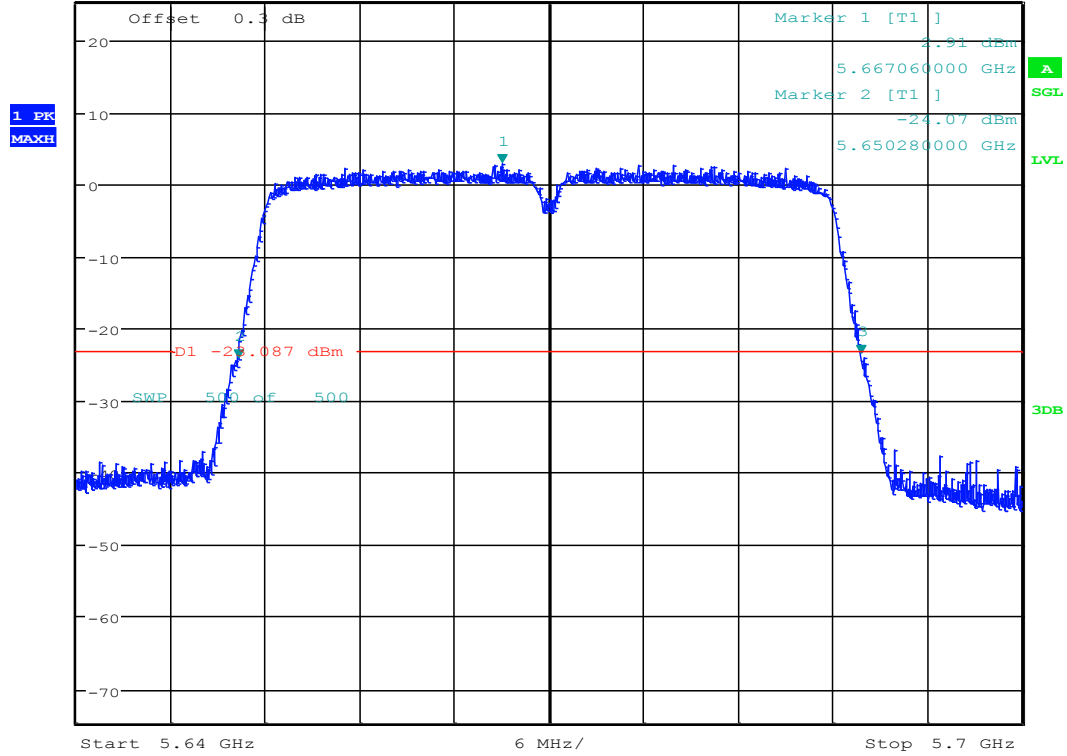


3.30 11AC40_134 ANT 1



*RBW 500 kHz Marker 3 [T1]
 *VBW 2 MHz -23.55 dBm
 SWT 20 ms 5.689800000 GHz

Ref 25.3 dBm *Att 20 dB



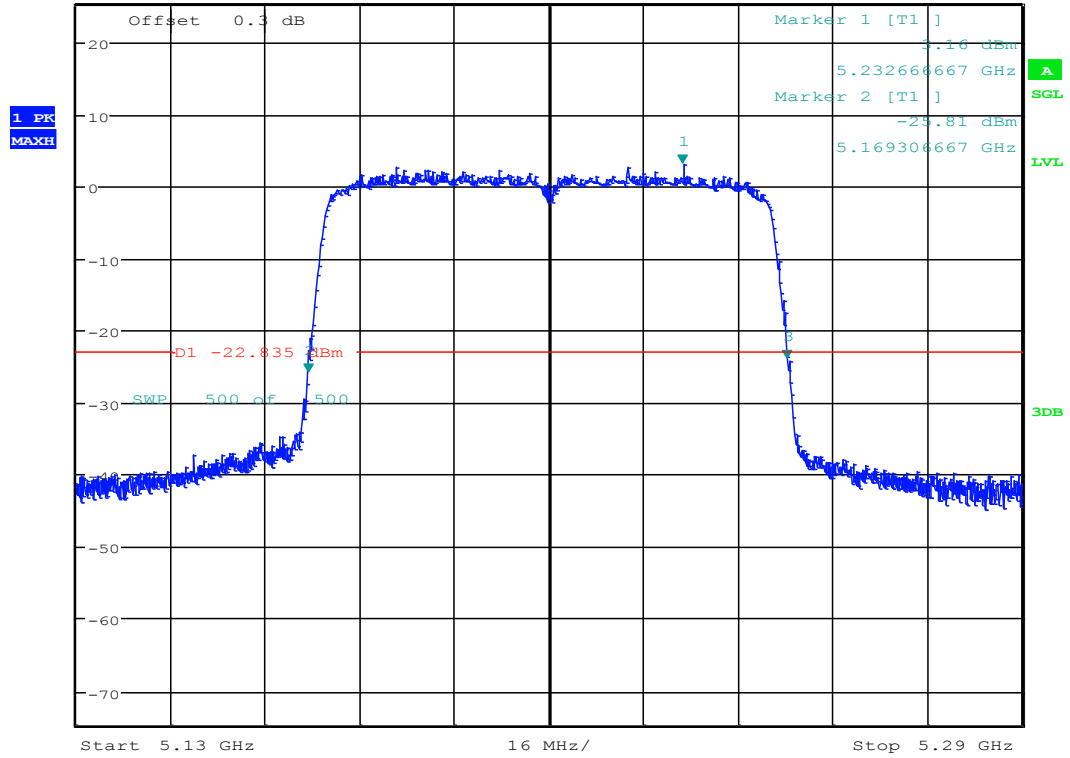
Date: 16.JUL.2018 16:16:59



3.31 11AC80_42 ANT 1



*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -24.02 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.250373333 GHz



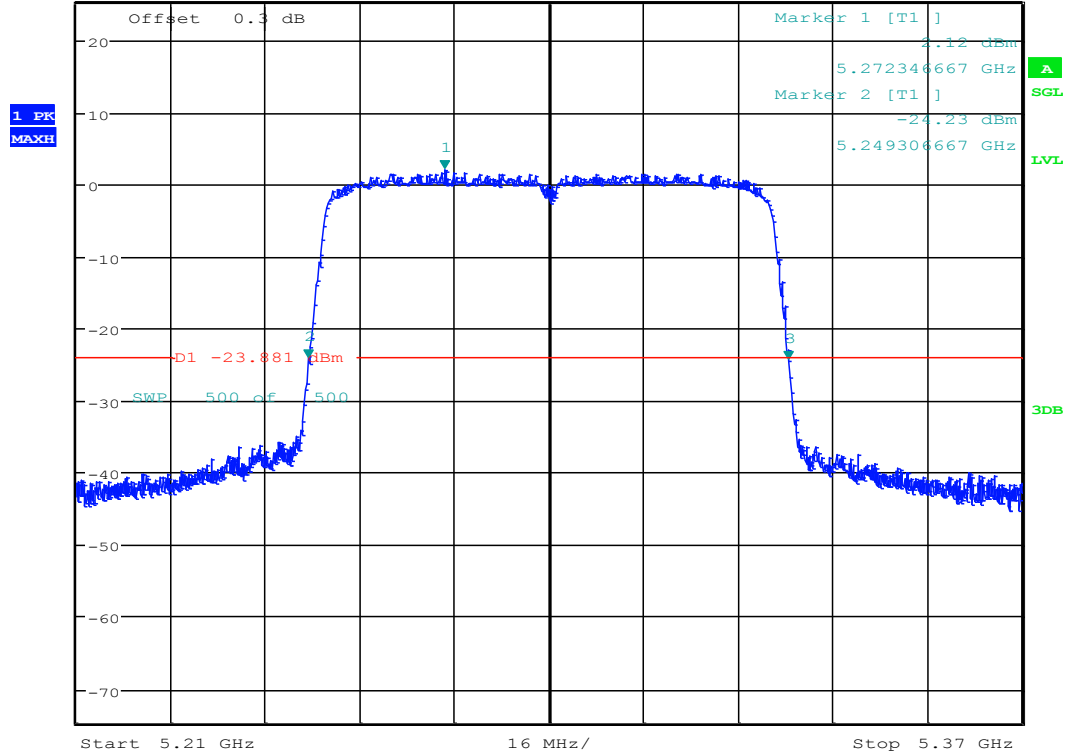
Date: 16.JUL.2018 16:35:37



3.32 11AC80_58 ANT 1



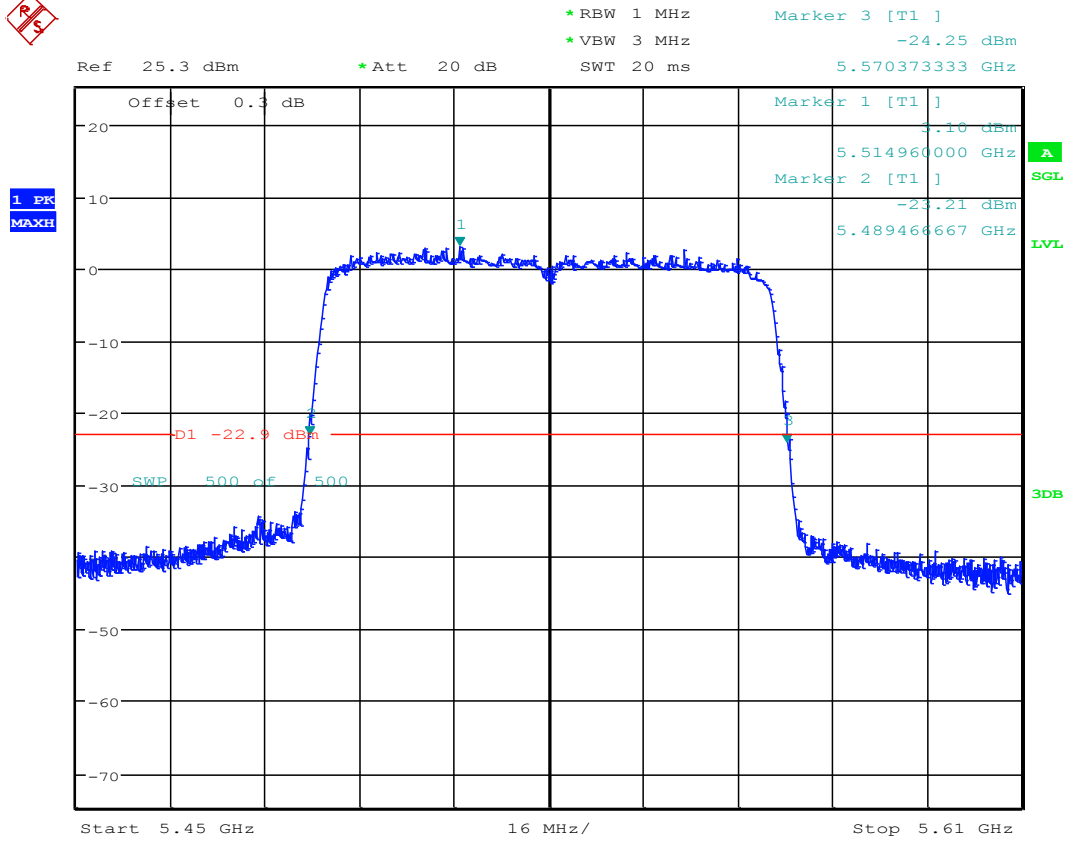
*RBW 1 MHz Marker 3 [T1]
 *VBW 3 MHz -24.34 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.330480000 GHz



Date: 16.JUL.2018 16:41:38



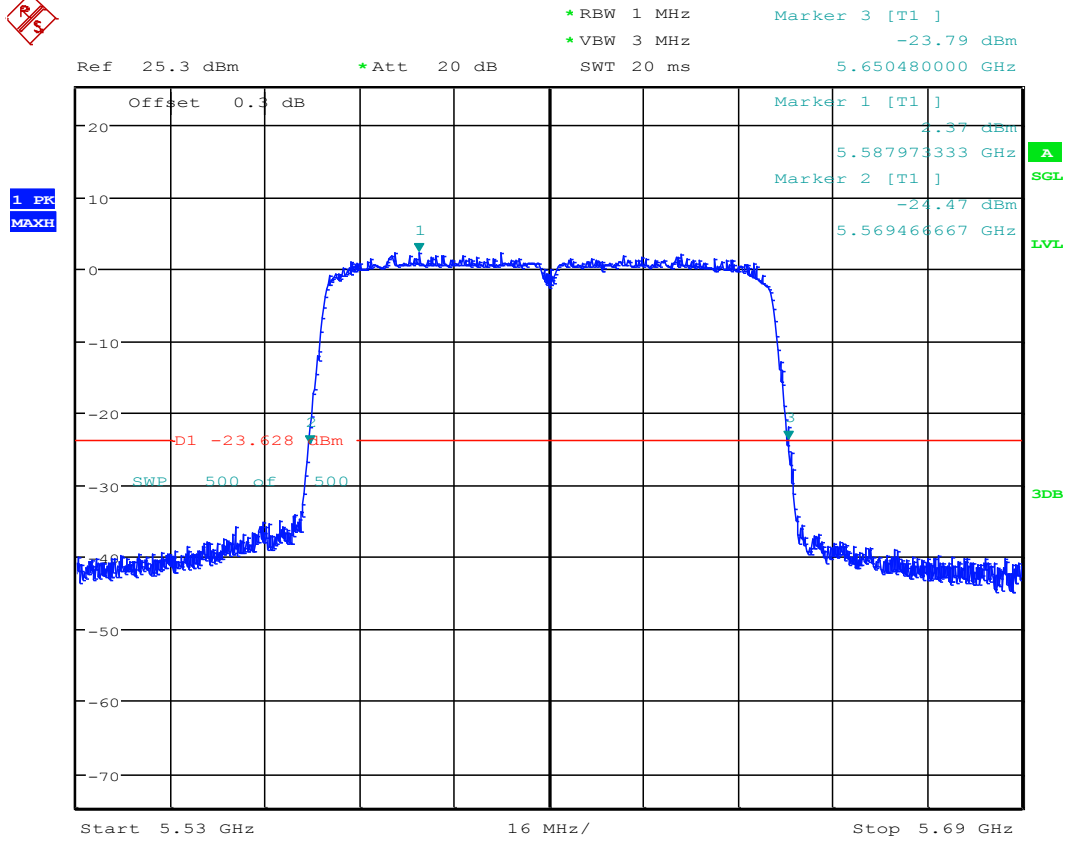
3.33 11AC80_106 ANT 1



Date: 16.JUL.2018 16:48:06



3.34 11AC80_122 ANT 1

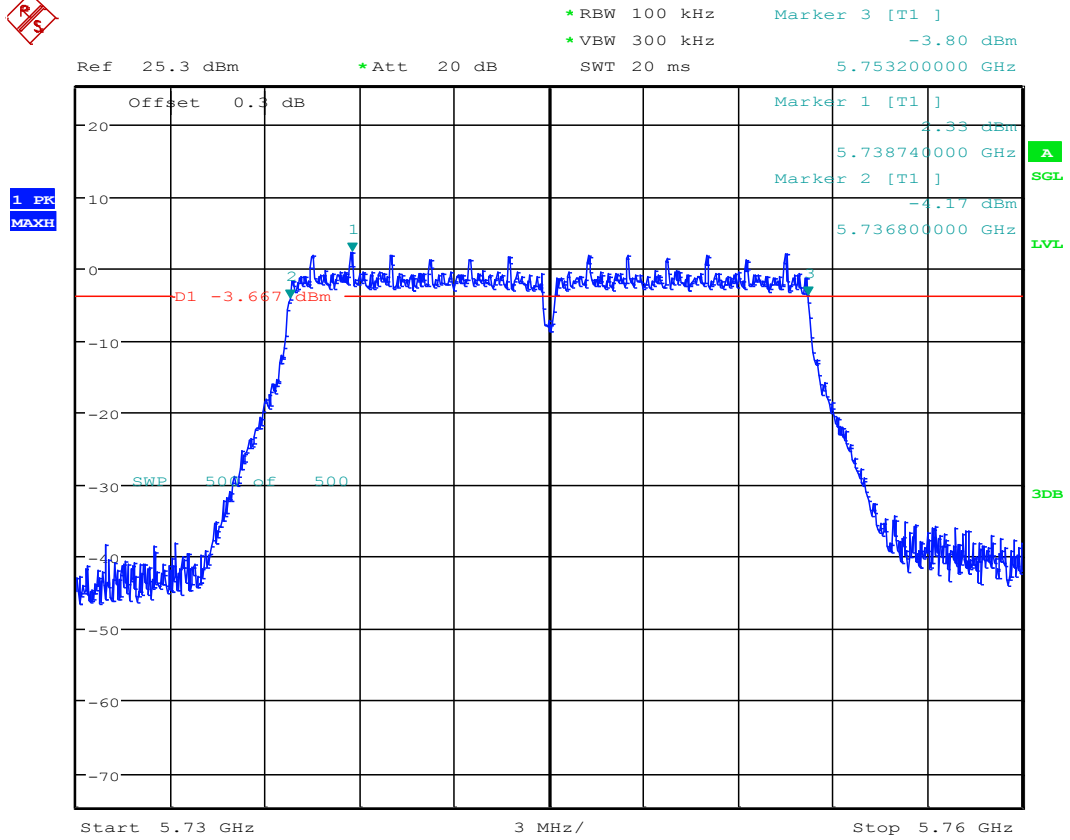


Date: 16.JUL.2018 16:51:49



4 Test Plot for 6dB Emission Bandwidth

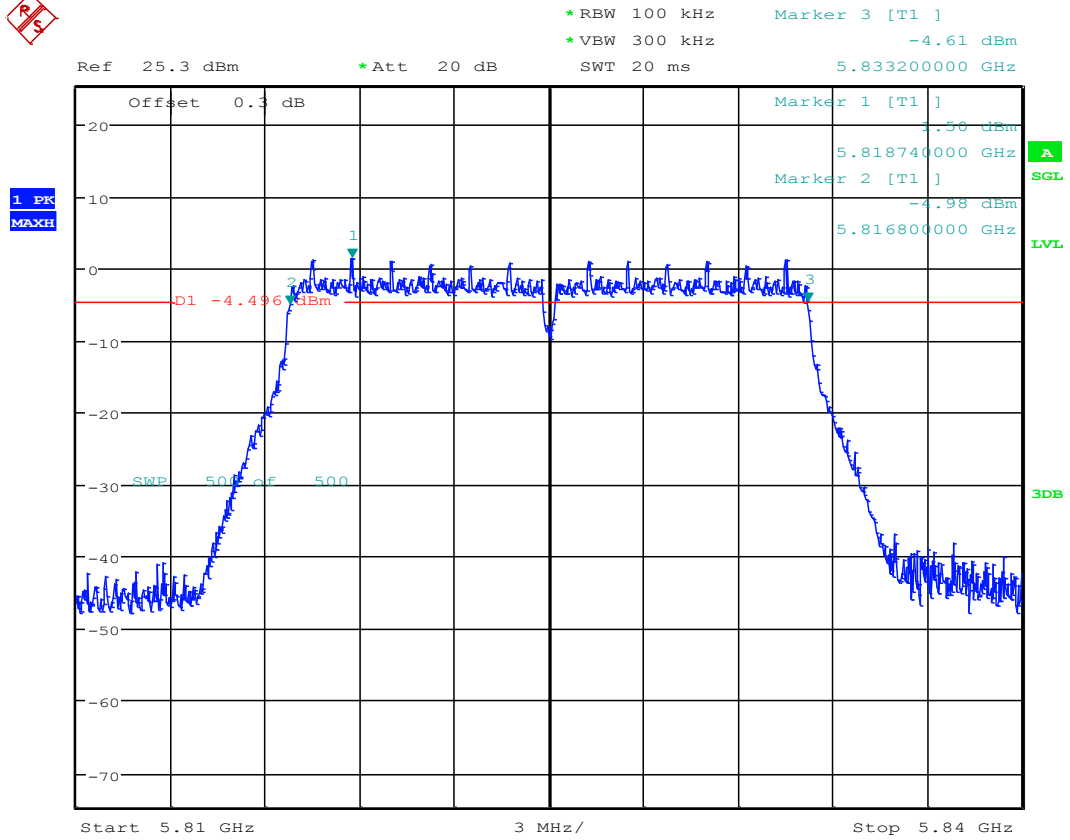
4.1 11A20_149 ANT 1



Date: 16.JUL.2018 10:22:44



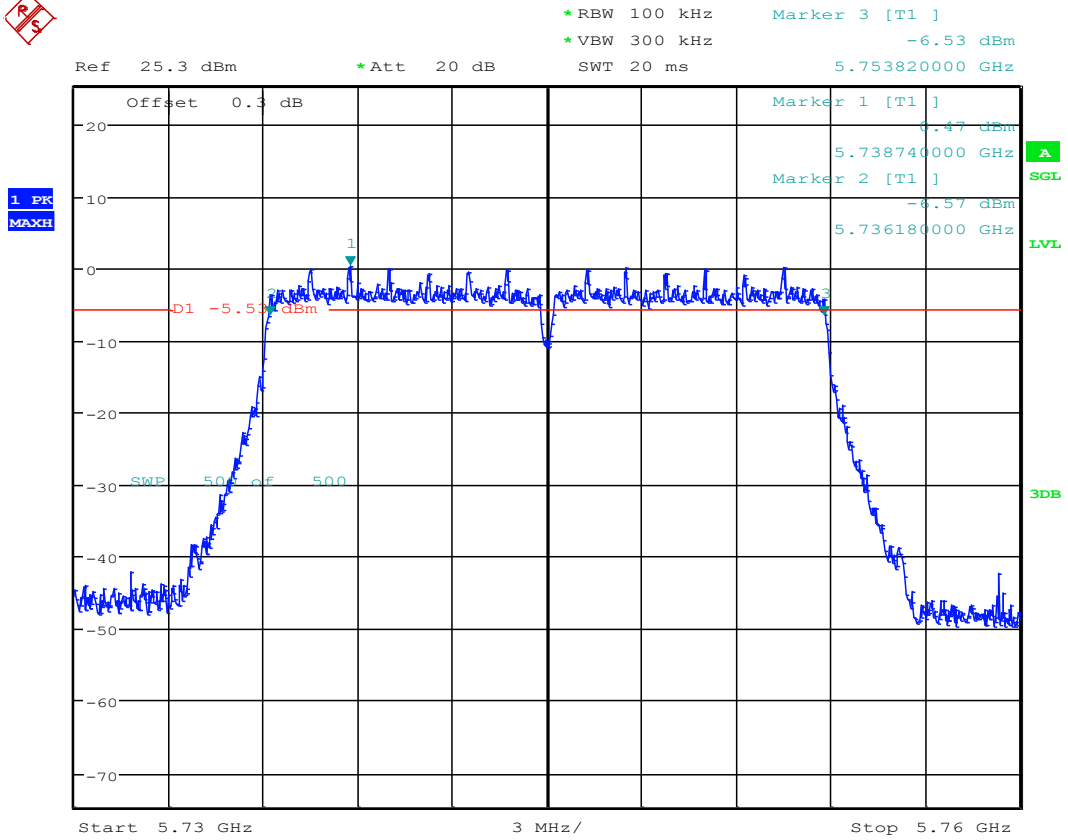
4.2 11A20_165 ANT 1



Date: 16.JUL.2018 10:28:41



4.3 11N20_149 ANT 1



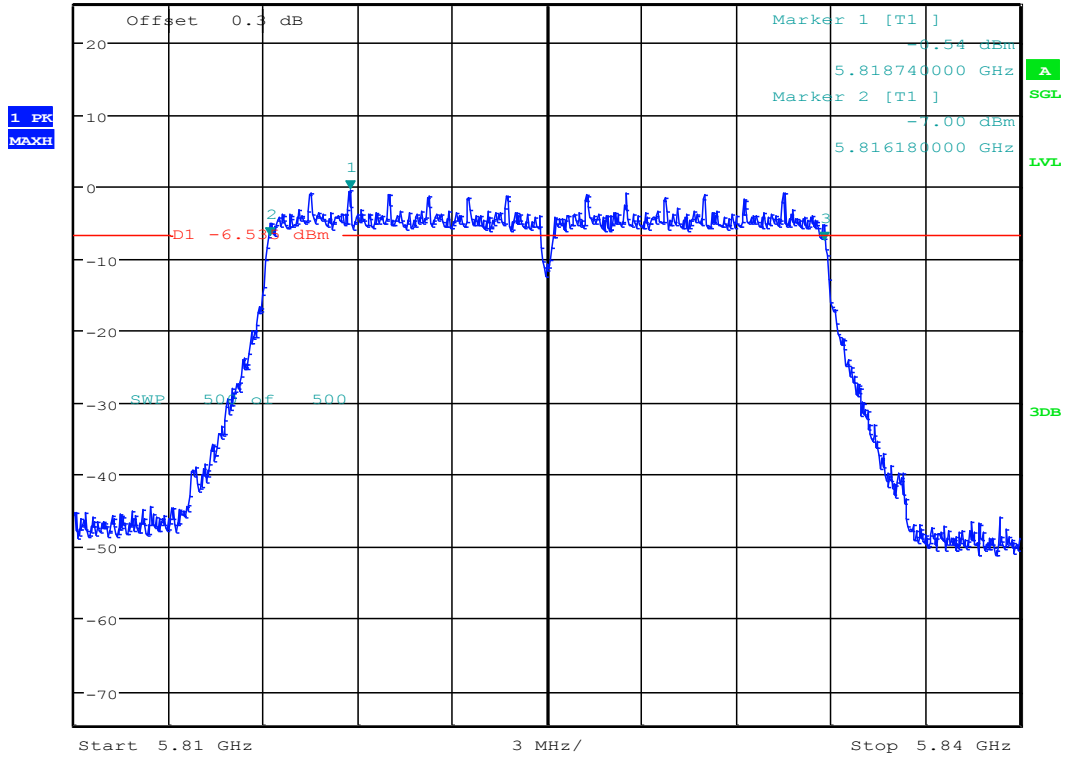
Date: 16.JUL.2018 14:18:58



4.4 11N20_165 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -7.57 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.833820000 GHz



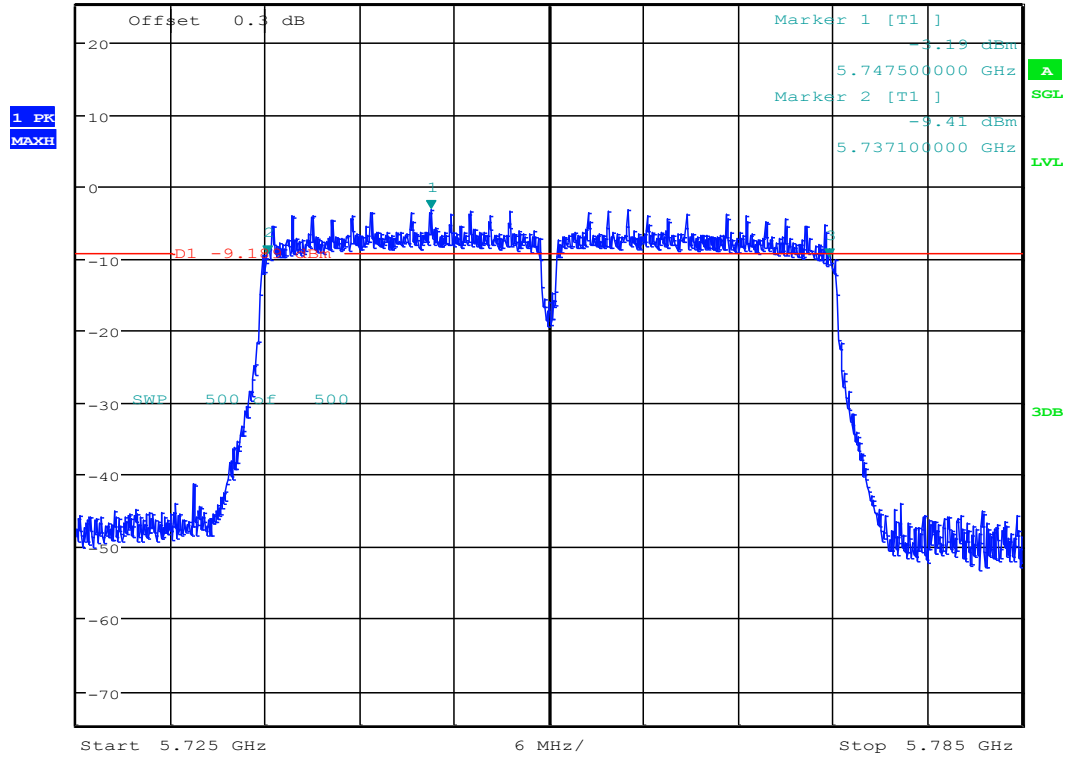
Date: 16.JUL.2018 14:24:38



4.5 11N40_151 ANT 1



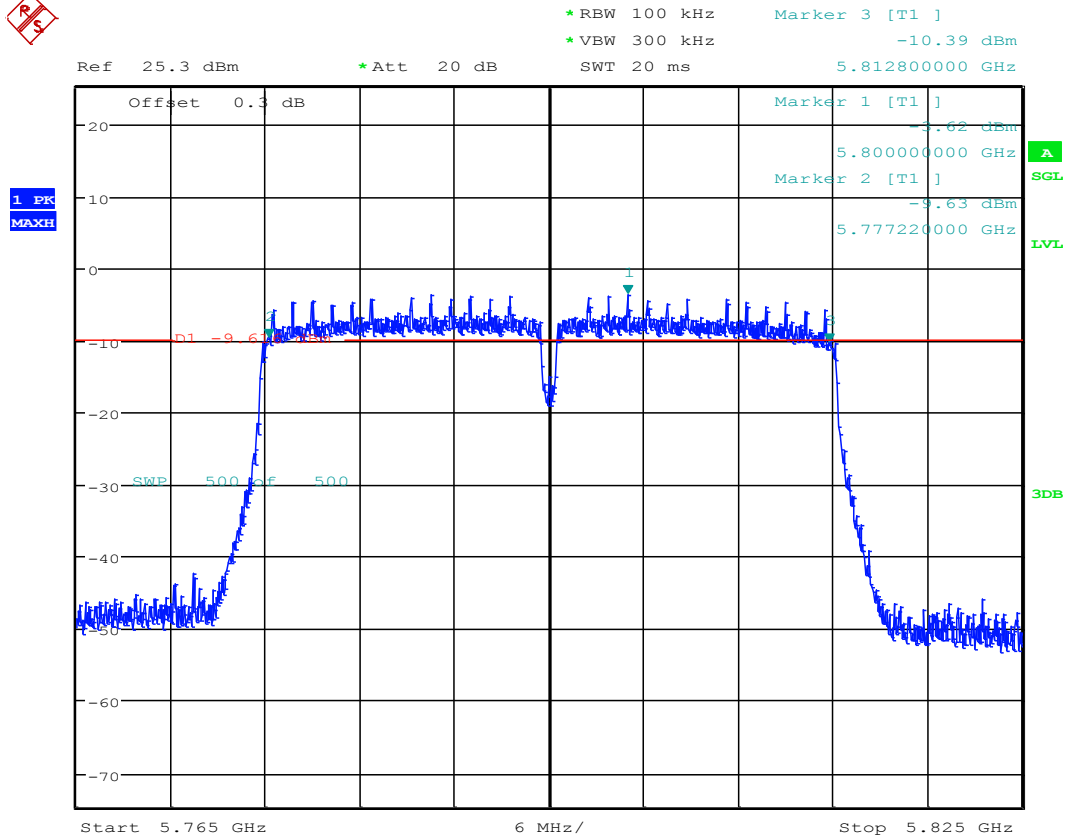
*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -9.95 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.772800000 GHz



Date: 16.JUL.2018 14:58:38



4.6 11N40_159 ANT 1



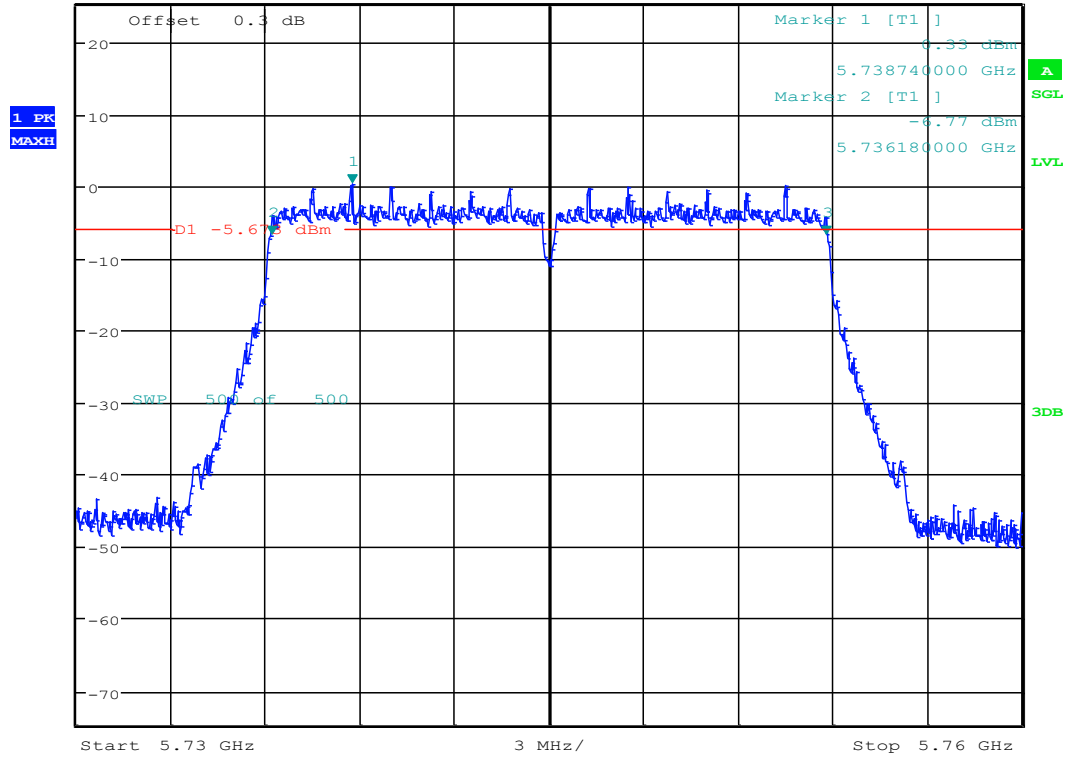
Date: 16.JUL.2018 15:03:20



4.7 11AC20_149 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -6.80 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.753820000 GHz



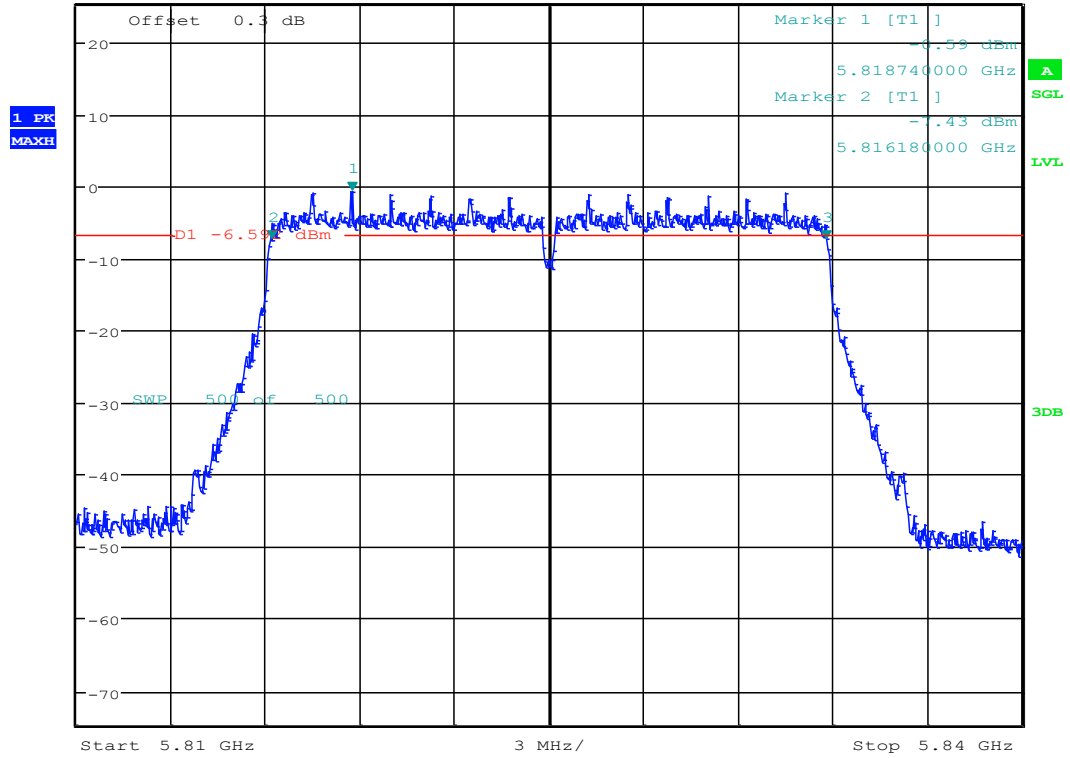
Date: 16.JUL.2018 15:43:51



4.8 11AC20_165 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -7.47 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.833820000 GHz



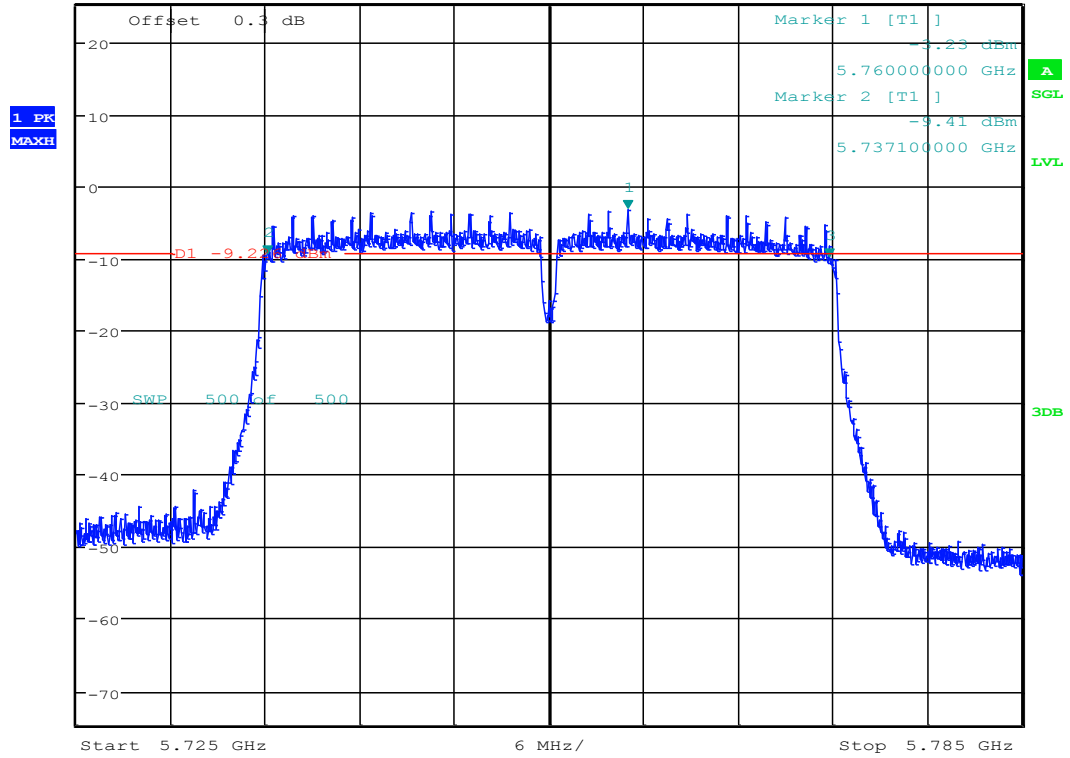
Date: 16.JUL.2018 15:48:53



4.9 11AC40_151 ANT 1



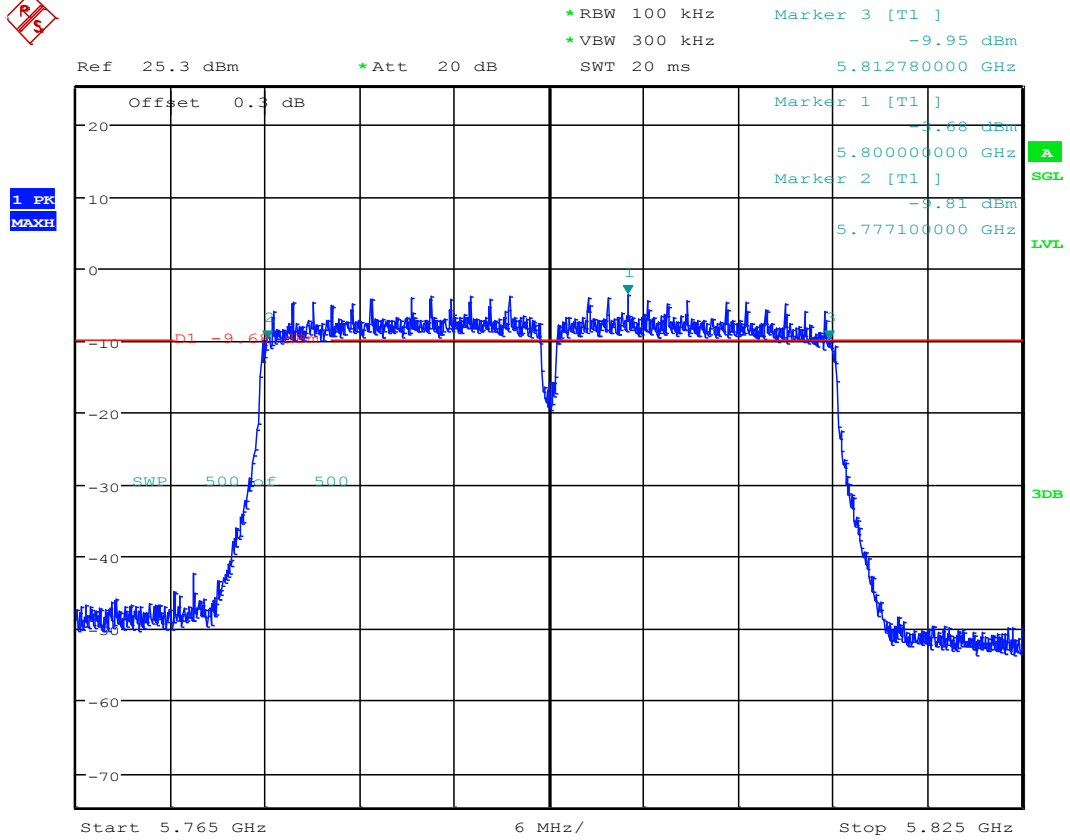
*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -9.88 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.772800000 GHz



Date: 16.JUL.2018 16:25:25



4.10 11AC40_159 ANT 1



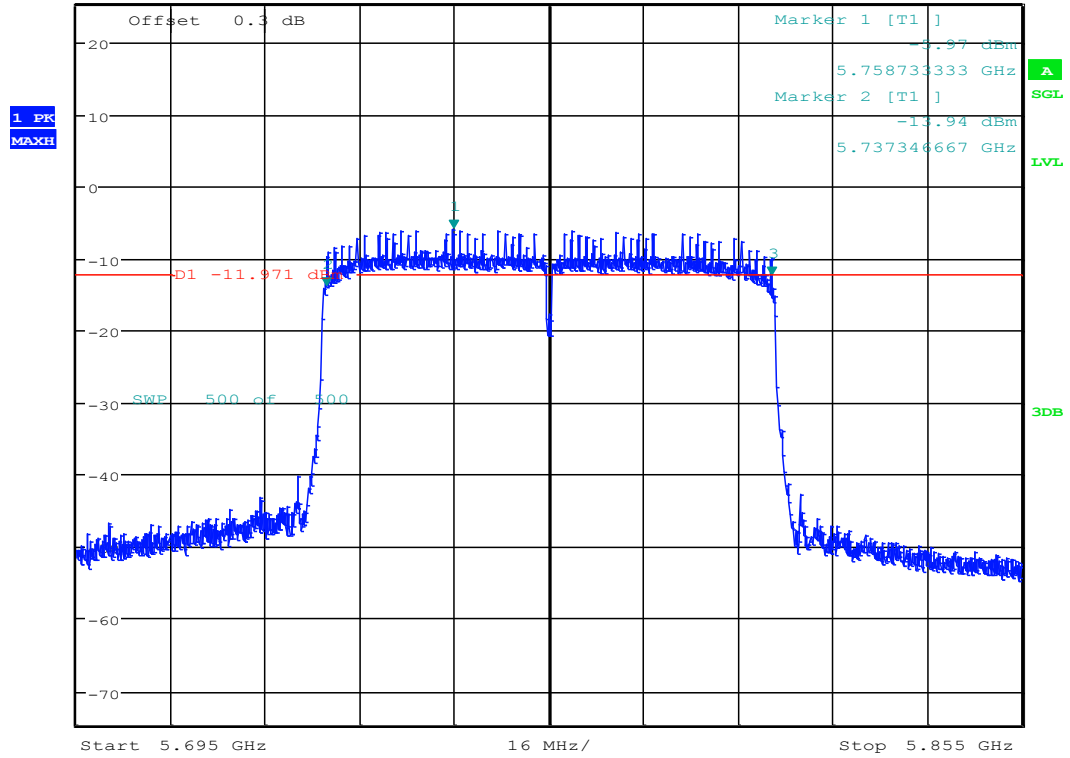
Date: 16.JUL.2018 16:30:23



4.11 11AC80_155 ANT 1



*RBW 100 kHz Marker 3 [T1]
 *VBW 300 kHz -12.47 dBm
 Ref 25.3 dBm *Att 20 dB SWT 20 ms 5.812600000 GHz



Date: 16.JUL.2018 17:00:53



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	16.76	PASS
	48	5240	ANT 1	16.76	PASS
	52	5260	ANT 1	16.76	PASS
	64	5320	ANT 1	16.78	PASS
	100	5500	ANT 1	16.78	PASS
	140	5700	ANT 1	16.76	PASS
	149	5745	ANT 1	16.78	PASS
	165	5825	ANT 1	16.76	PASS
11N20	36	5180	ANT 1	17.74	PASS
	48	5240	ANT 1	17.76	PASS
	52	5260	ANT 1	17.74	PASS
	64	5320	ANT 1	17.74	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
	149	5745	ANT 1	17.76	PASS
	165	5825	ANT 1	17.74	PASS
11N40	38	5190	ANT 1	35.98	PASS
	46	5230	ANT 1	35.96	PASS
	54	5270	ANT 1	35.96	PASS
	62	5310	ANT 1	35.96	PASS
	102	5510	ANT 1	35.96	PASS
	134	5670	ANT 1	35.96	PASS
	151	5755	ANT 1	35.96	PASS
	159	5795	ANT 1	35.96	PASS
11AC20	36	5180	ANT 1	17.76	PASS
	48	5240	ANT 1	17.74	PASS
	52	5260	ANT 1	17.74	PASS
	64	5320	ANT 1	17.74	PASS
	100	5500	ANT 1	17.76	PASS
	140	5700	ANT 1	17.74	PASS
	149	5745	ANT 1	17.76	PASS
	165	5825	ANT 1	17.74	PASS
11AC40	38	5190	ANT 1	35.94	PASS
	46	5230	ANT 1	35.92	PASS

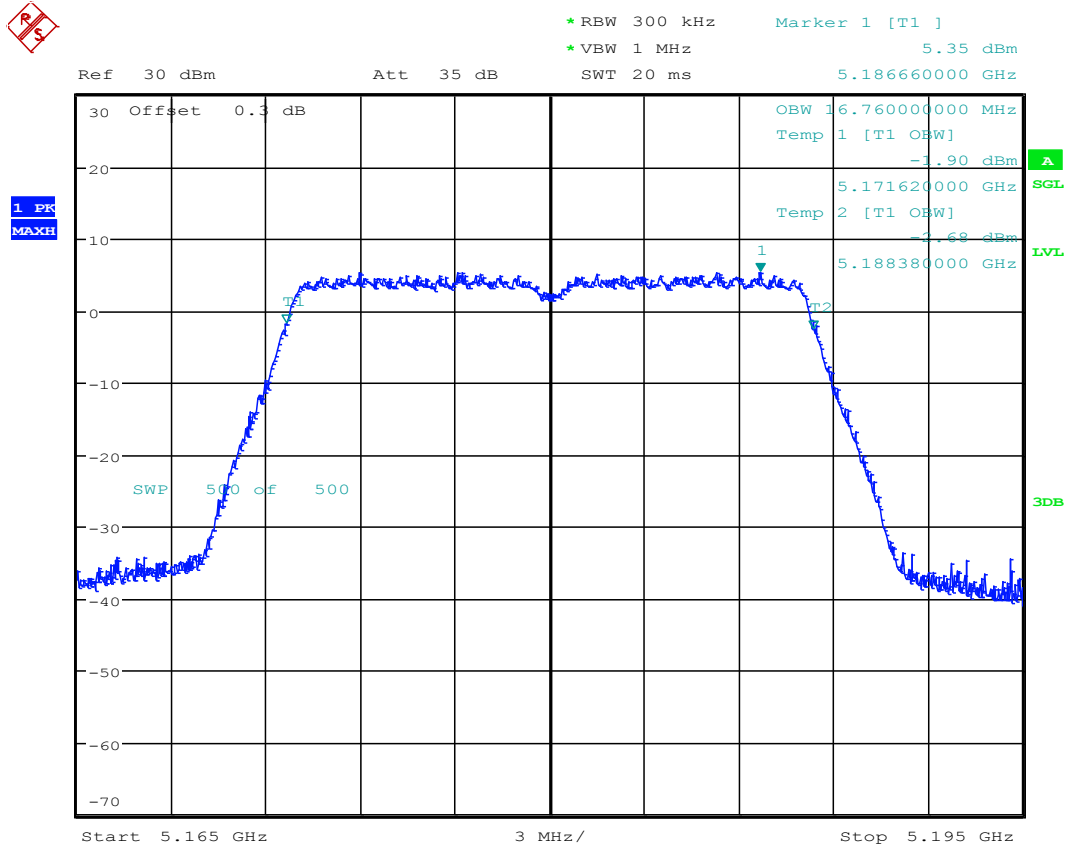


	54	5270	ANT 1	35.94	PASS
	62	5310	ANT 1	35.94	PASS
	102	5510	ANT 1	35.92	PASS
	134	5670	ANT 1	35.94	PASS
	151	5755	ANT 1	35.94	PASS
	159	5795	ANT 1	35.94	PASS
11AC80	42	5210	ANT 1	74.80	PASS
	58	5290	ANT 1	74.92	PASS
	106	5530	ANT 1	74.88	PASS
	122	5610	ANT 1	74.84	PASS
	155	5775	ANT 1	74.88	PASS



6 Test Plot

6.1 11A20_36 ANT 1



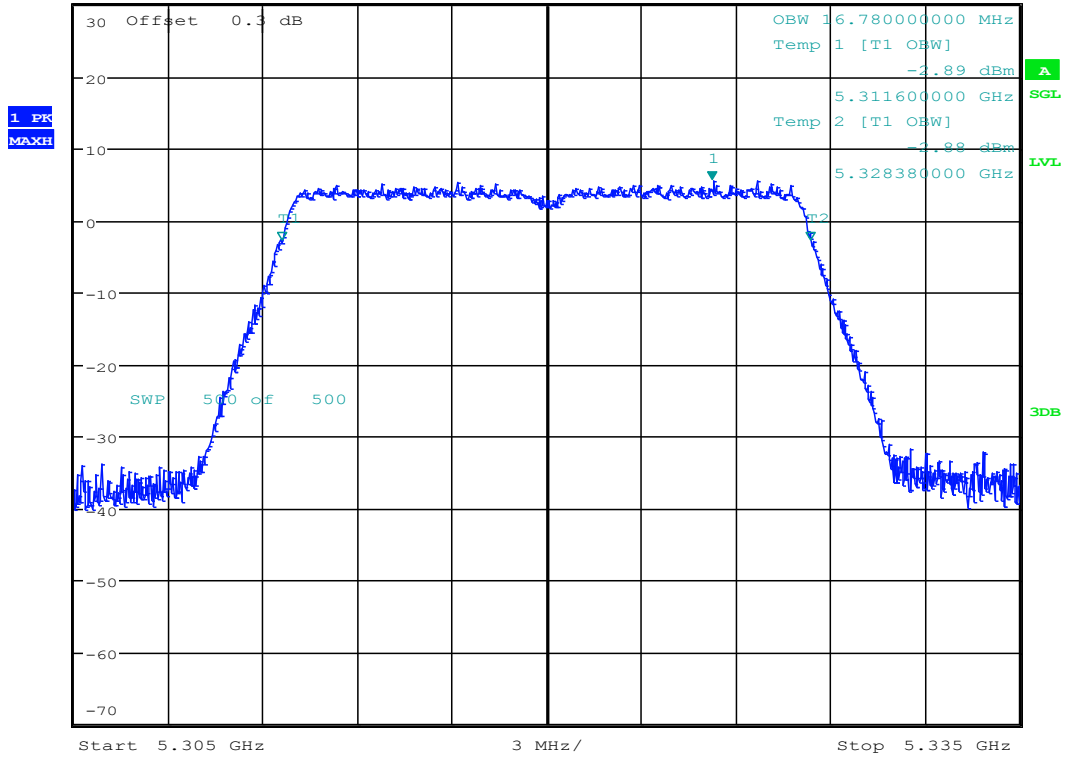
Date: 16.JUL.2018 09:42:03



6.4 11A20_64 ANT 1



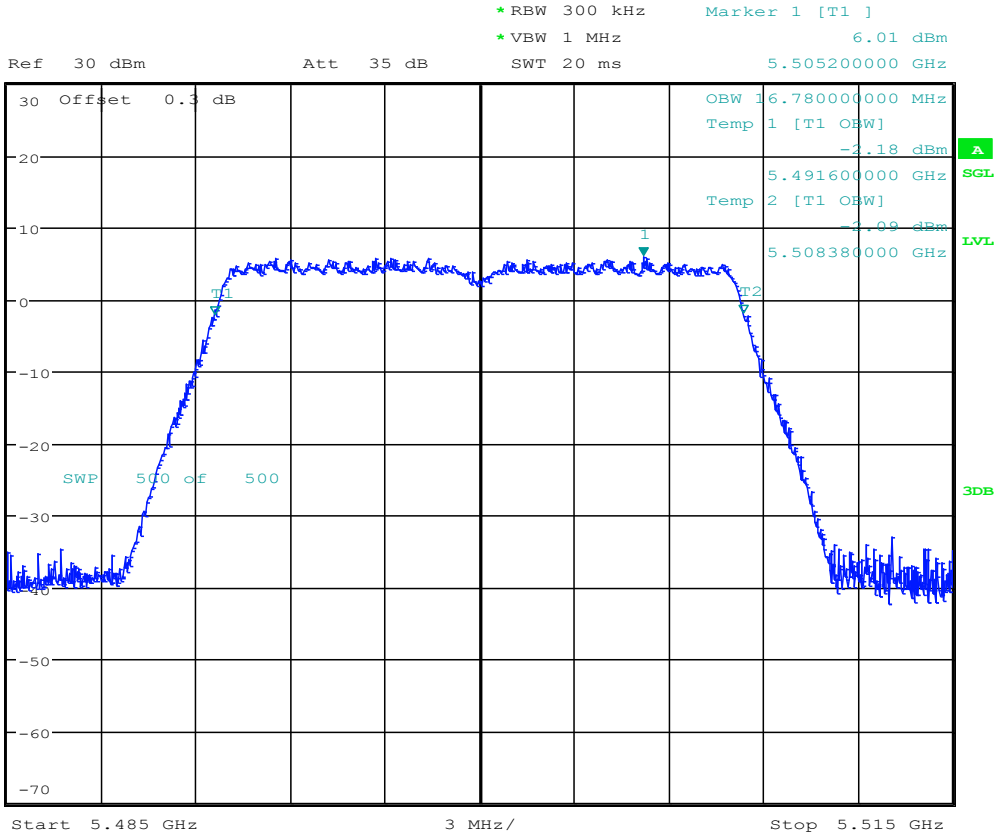
*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 5.47 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.325260000 GHz



Date: 16.JUL.2018 10:02:38



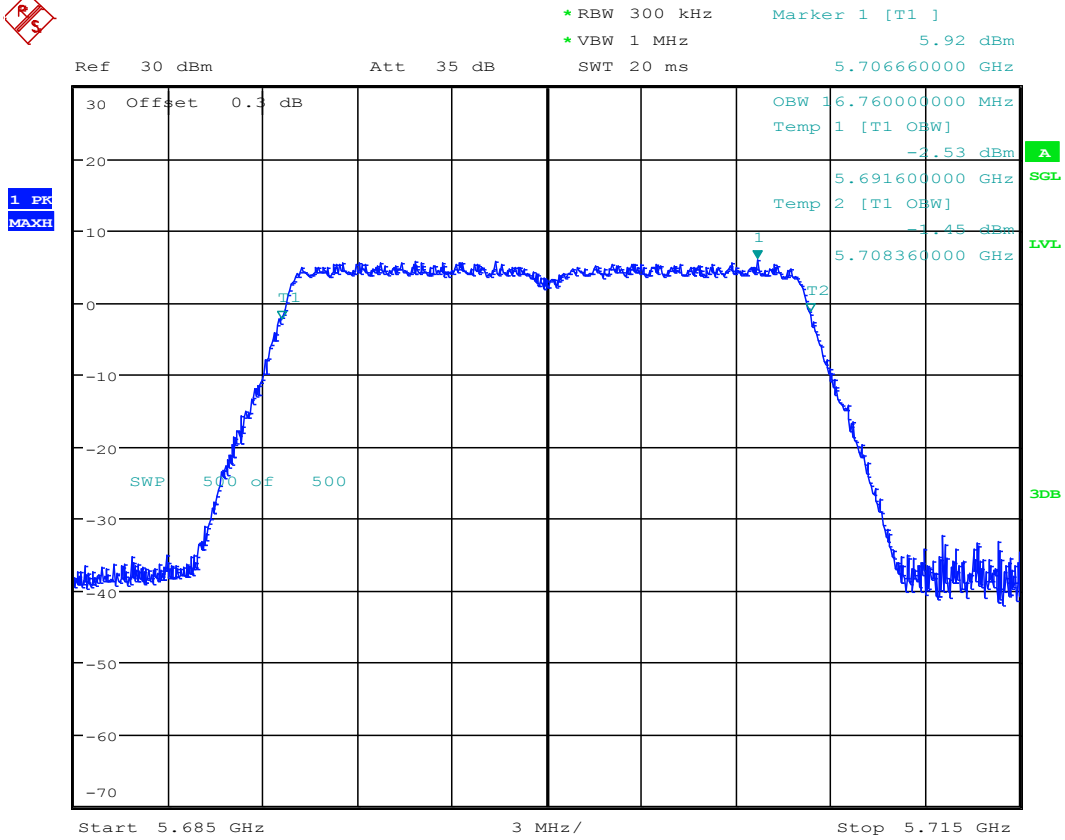
6.5 11A20_100 ANT 1



Date: 16.JUL.2018 10:10:17



6.6 11A20_140 ANT 1



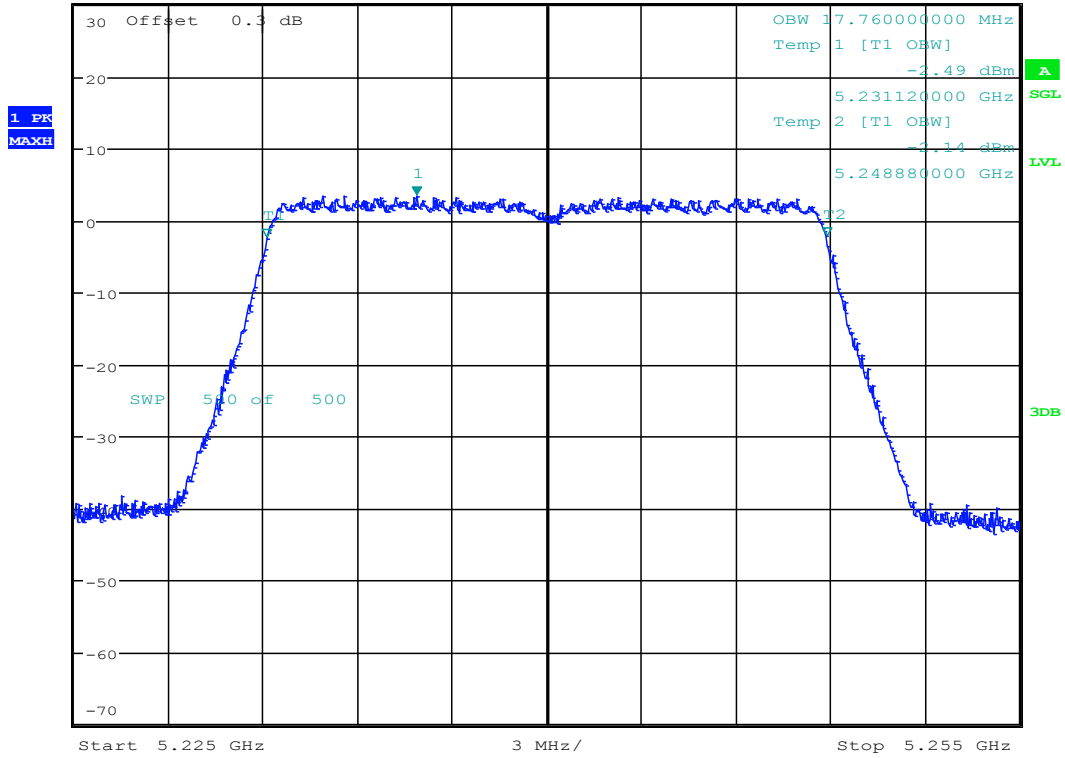
Date: 16.JUL.2018 10:14:17



6.10 11N20_48 ANT 1



*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 3.39 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.235880000 GHz



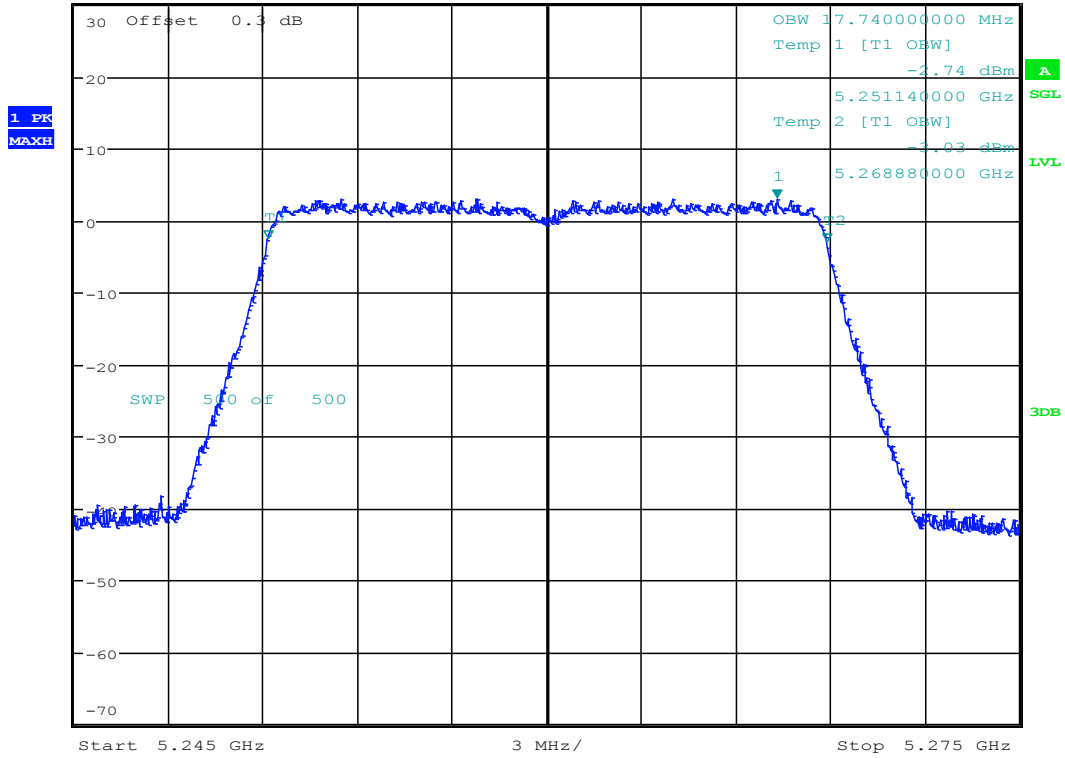
Date: 16.JUL.2018 13:51:59



6.11 11N20_52 ANT 1



*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 3.08 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.267300000 GHz



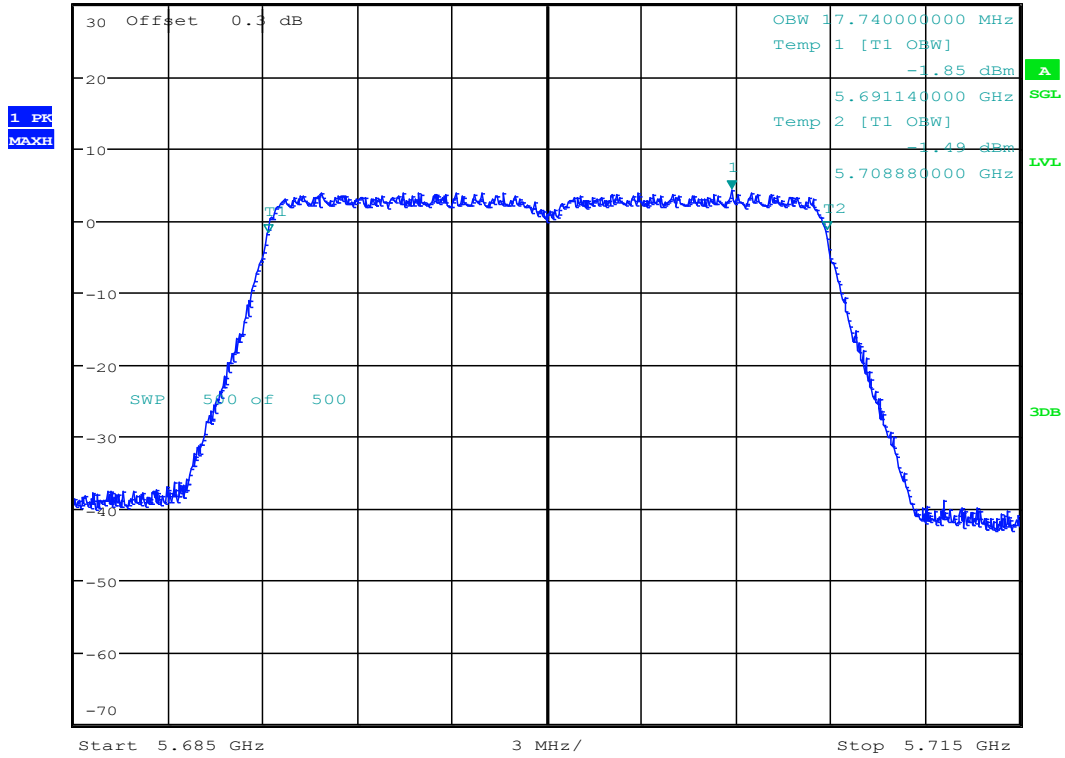
Date: 16.JUL.2018 13:56:37



6.14 11N20_140 ANT 1



*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 4.24 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.705860000 GHz



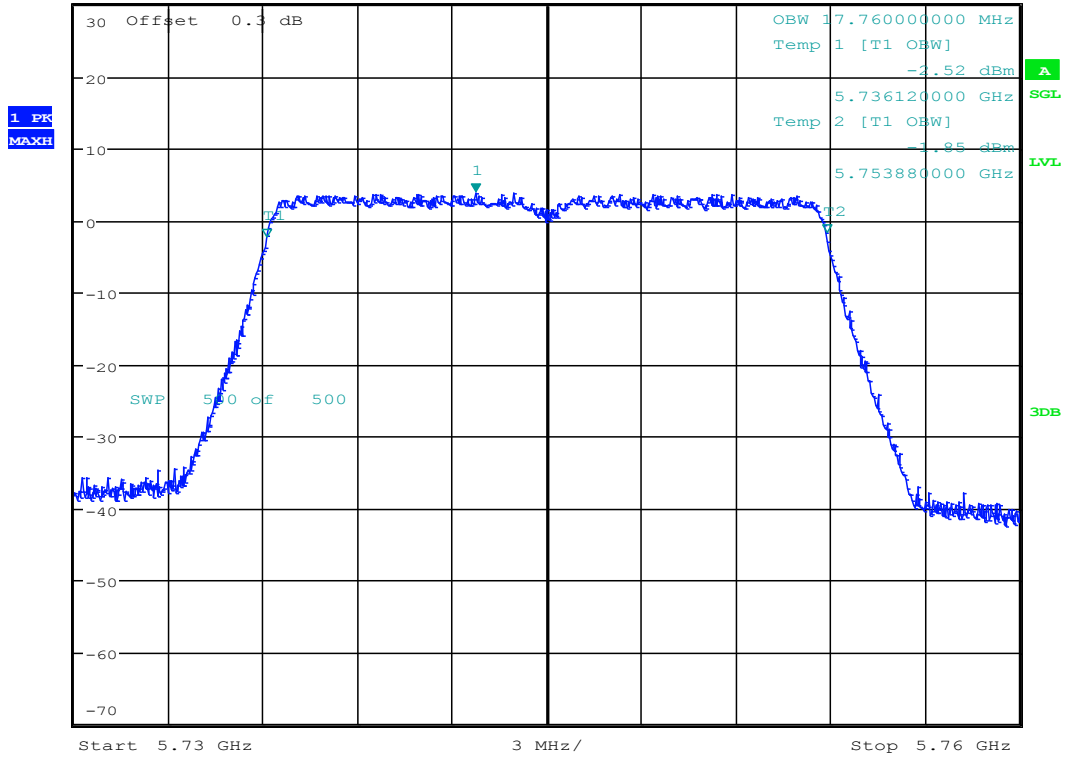
Date: 16.JUL.2018 14:10:44



6.15 11N20_149 ANT 1



*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 3.82 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.742740000 GHz



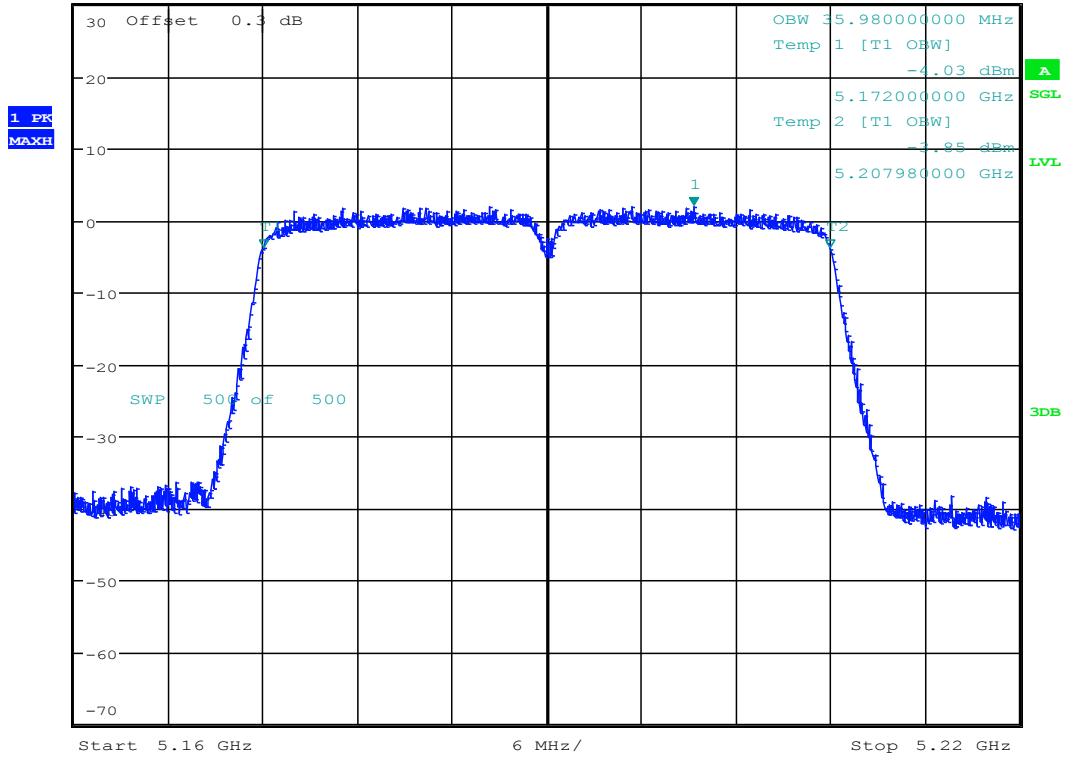
Date: 16.JUL.2018 14:19:44



6.17 11N40_38 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 1.96 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.199360000 GHz



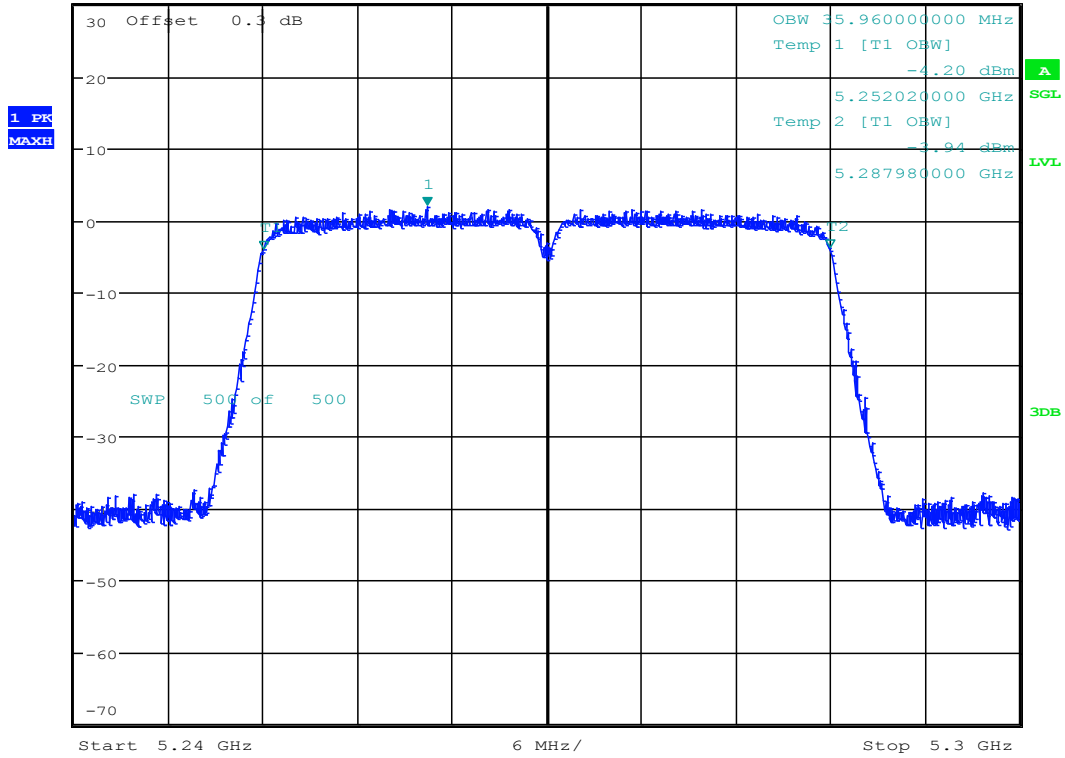
Date: 16.JUL.2018 14:30:50



6.19 11N40_54 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 1.95 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.262440000 GHz



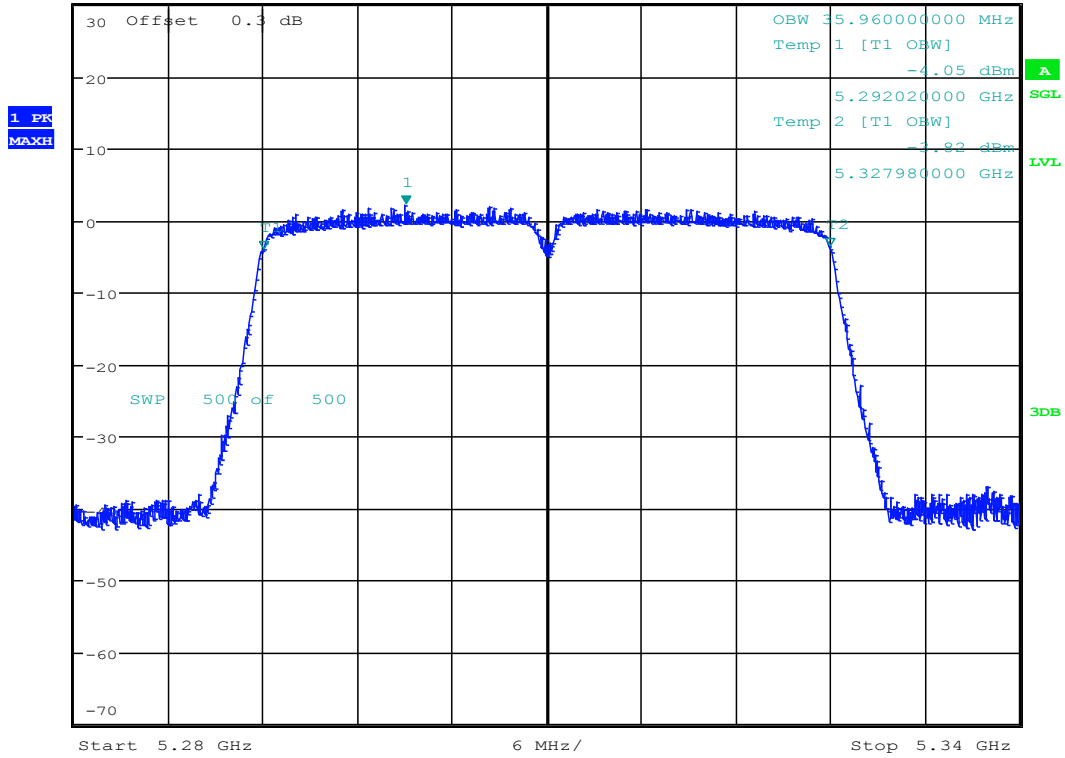
Date: 16.JUL.2018 14:39:44



6.20 11N40_62 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 2.08 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.301020000 GHz



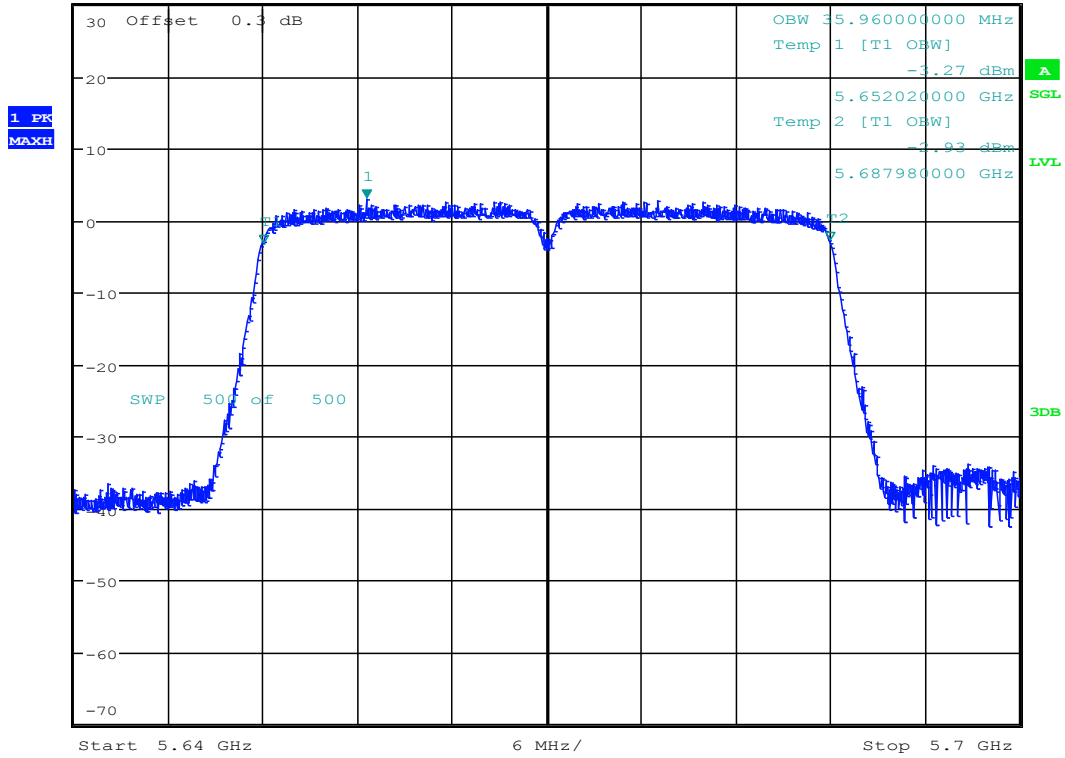
Date: 16.JUL.2018 14:43:27



6.22 11N40_134 ANT 1



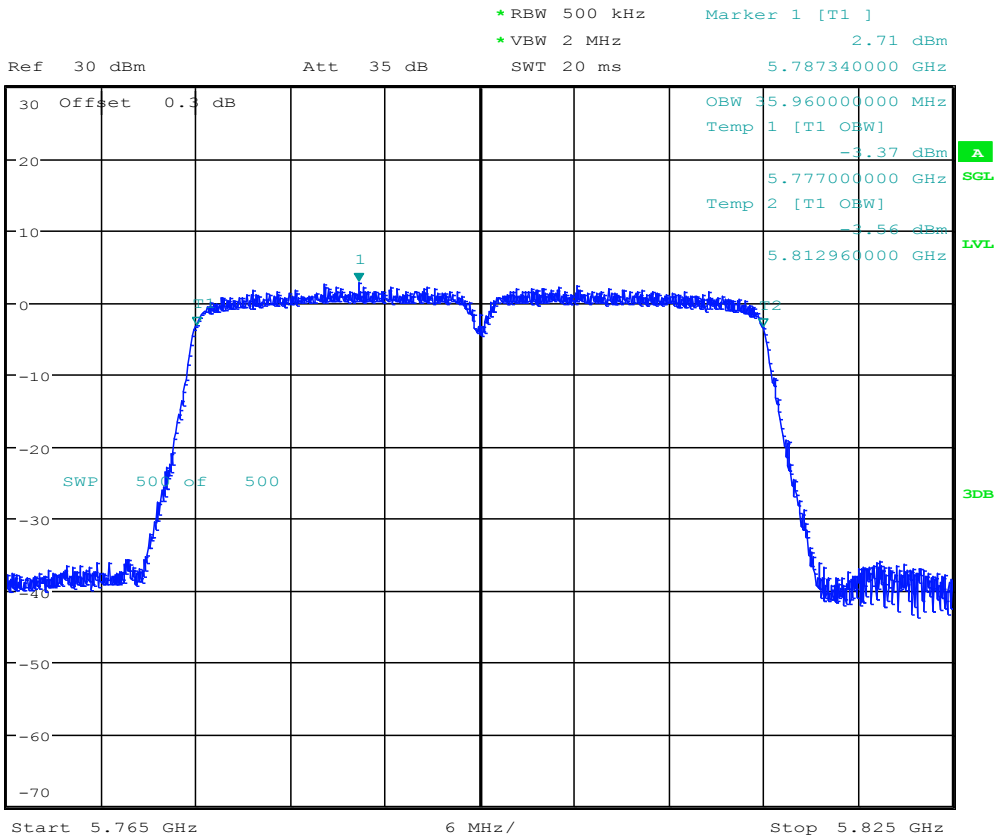
*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 2.91 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.658540000 GHz



Date: 16.JUL.2018 14:51:44



6.24 11N40_159 ANT 1



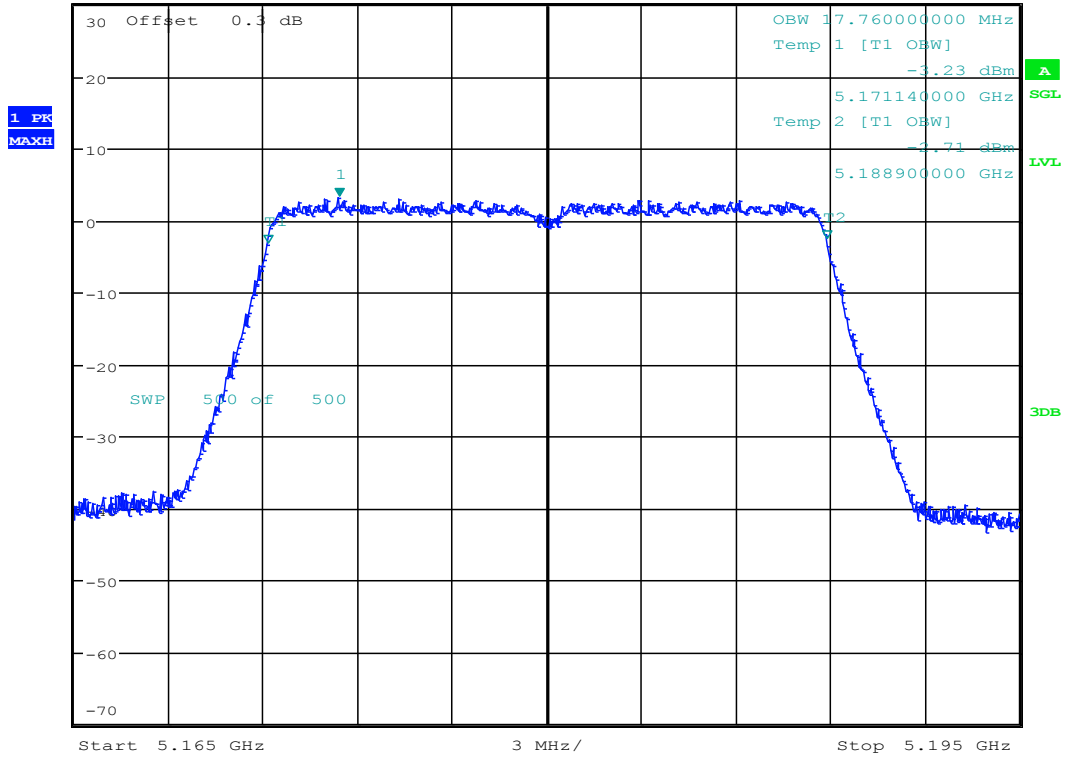
Date: 16.JUL.2018 15:04:12



6.25 11AC20_36 ANT 1



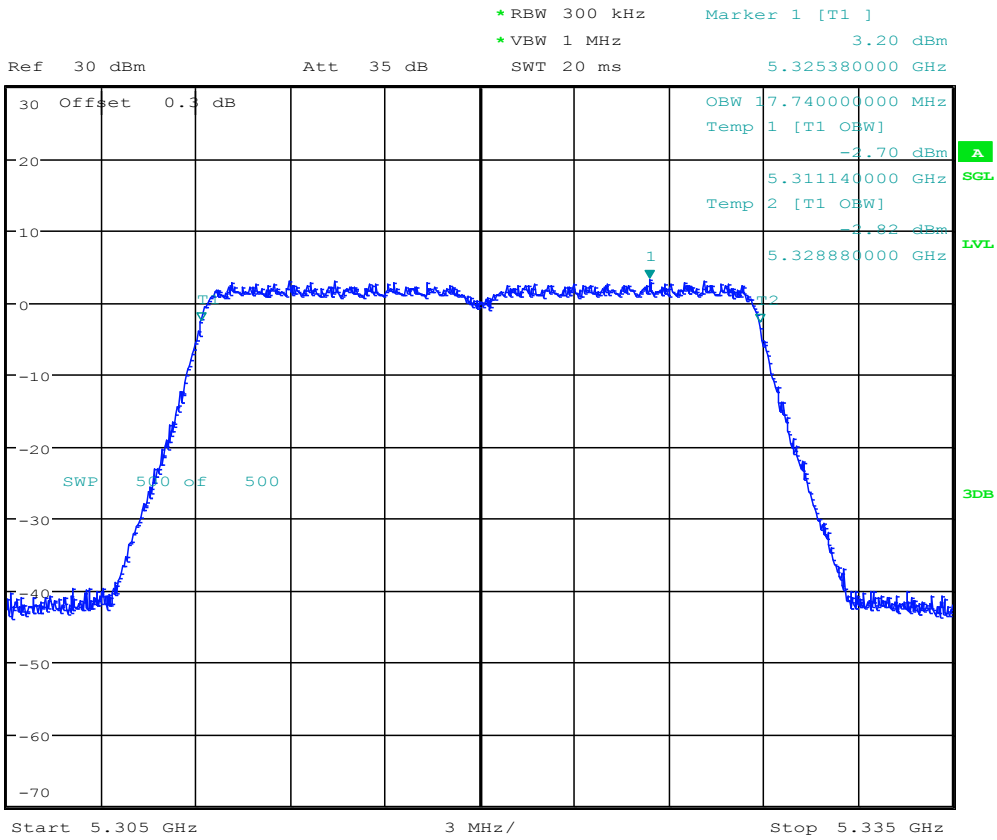
*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 3.11 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.173400000 GHz



Date: 16.JUL.2018 15:09:46



6.28 11AC20_64 ANT 1



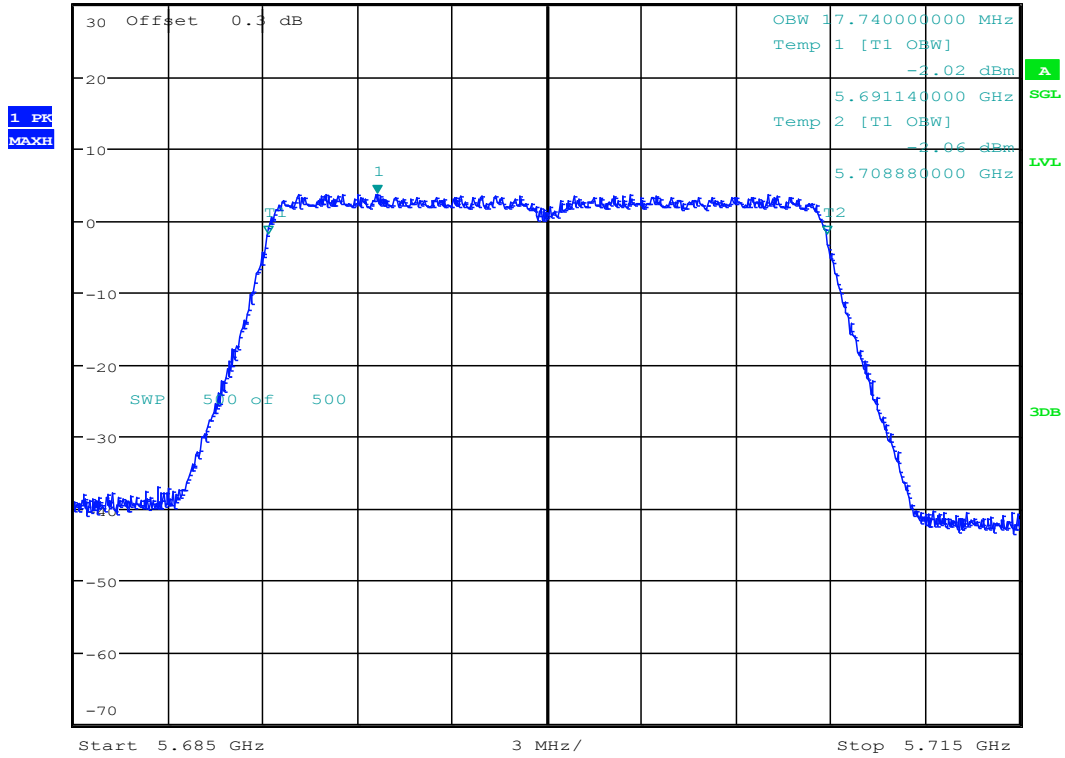
Date: 16.JUL.2018 15:24:10



6.30 11AC20_140 ANT 1



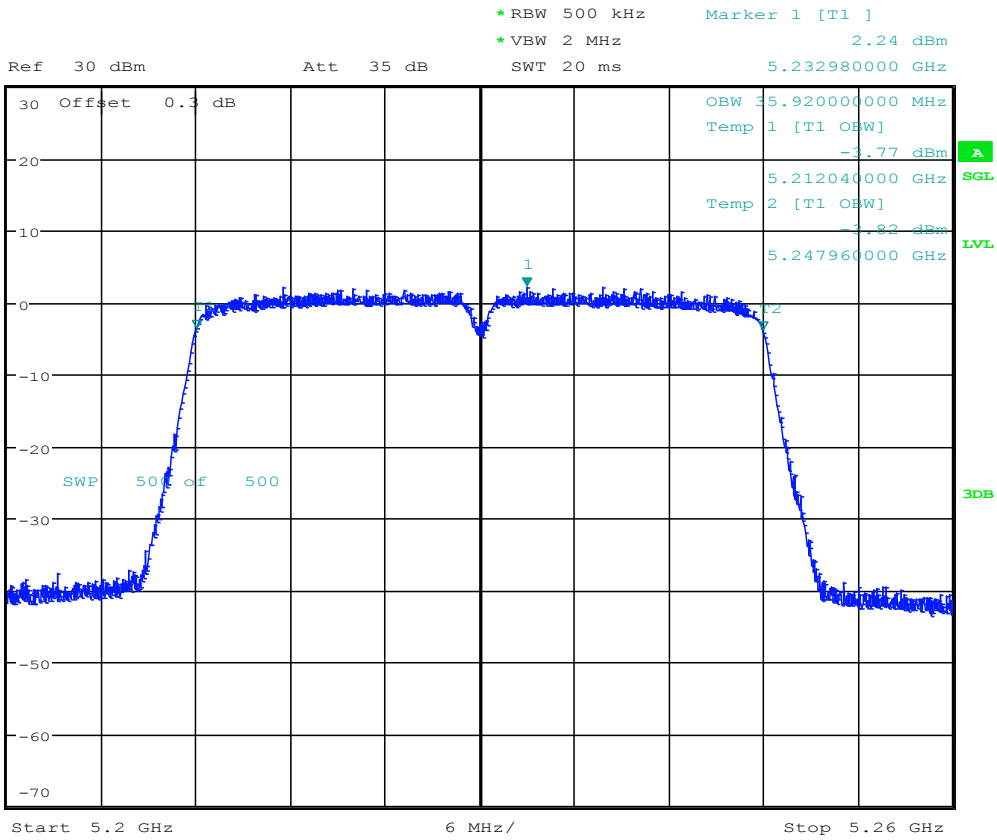
*RBW 300 kHz Marker 1 [T1]
 *VBW 1 MHz 3.73 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.694620000 GHz



Date: 16.JUL.2018 15:31:41



6.34 11AC40_46 ANT 1



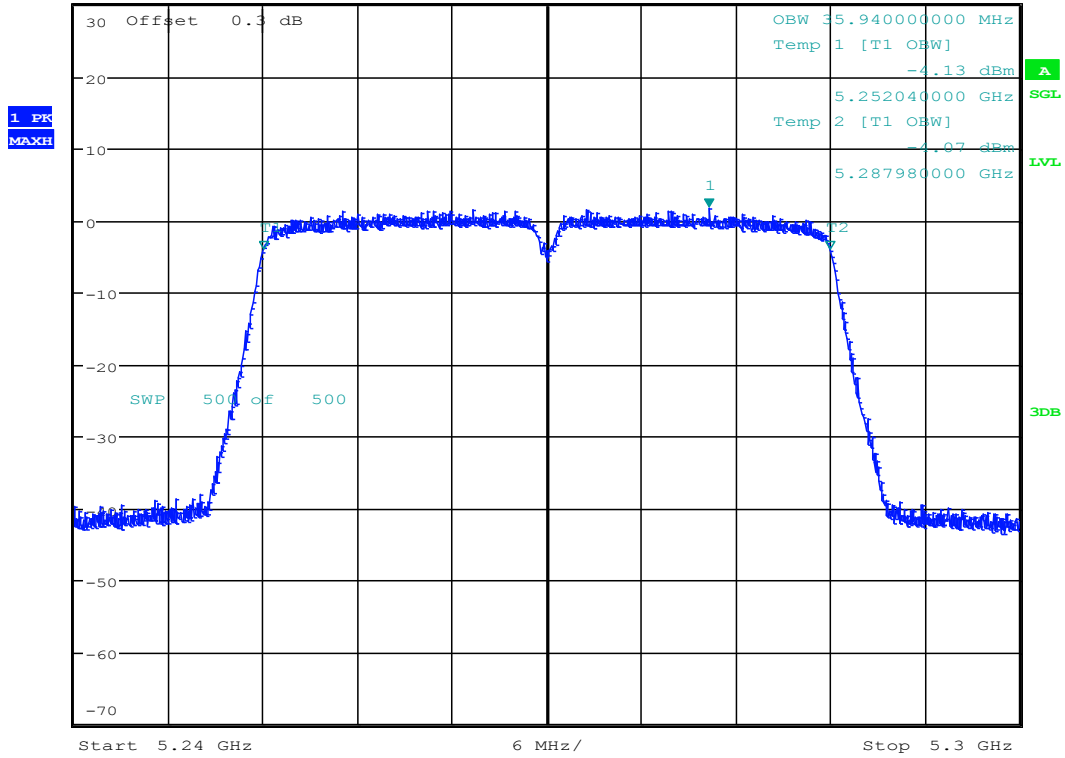
Date: 16.JUL.2018 16:00:28



6.35 11AC40_54 ANT 1



*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 1.81 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.280260000 GHz



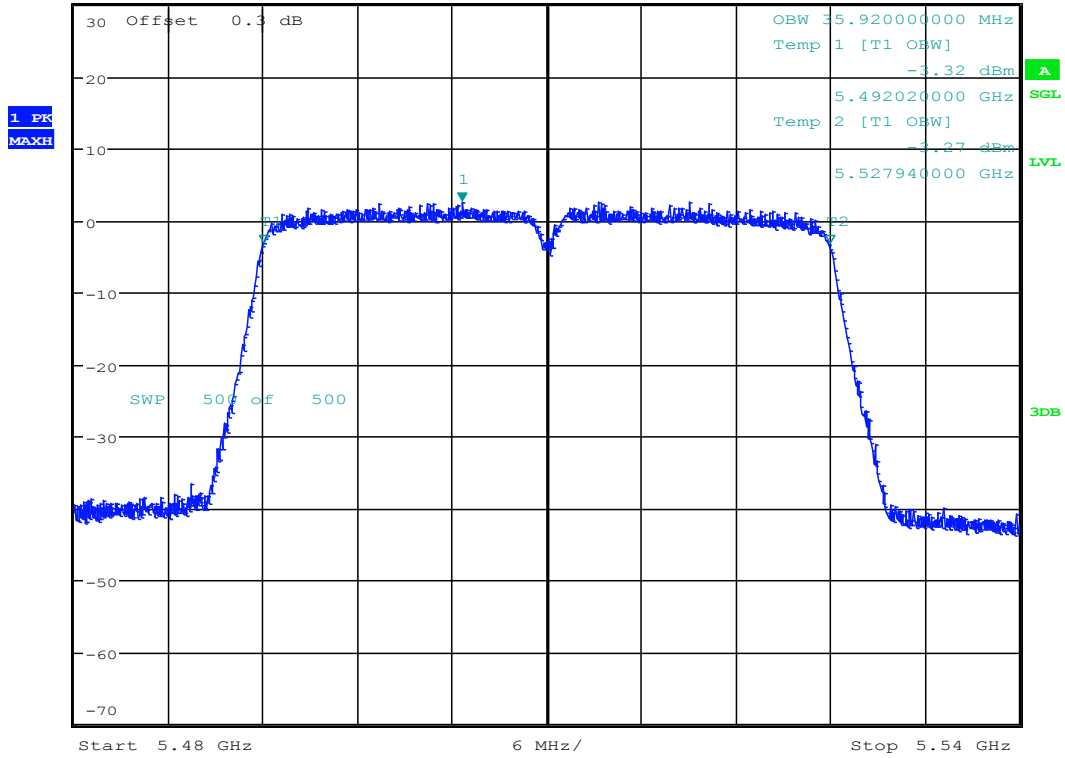
Date: 16.JUL.2018 16:06:17



6.37 11AC40_102 ANT 1



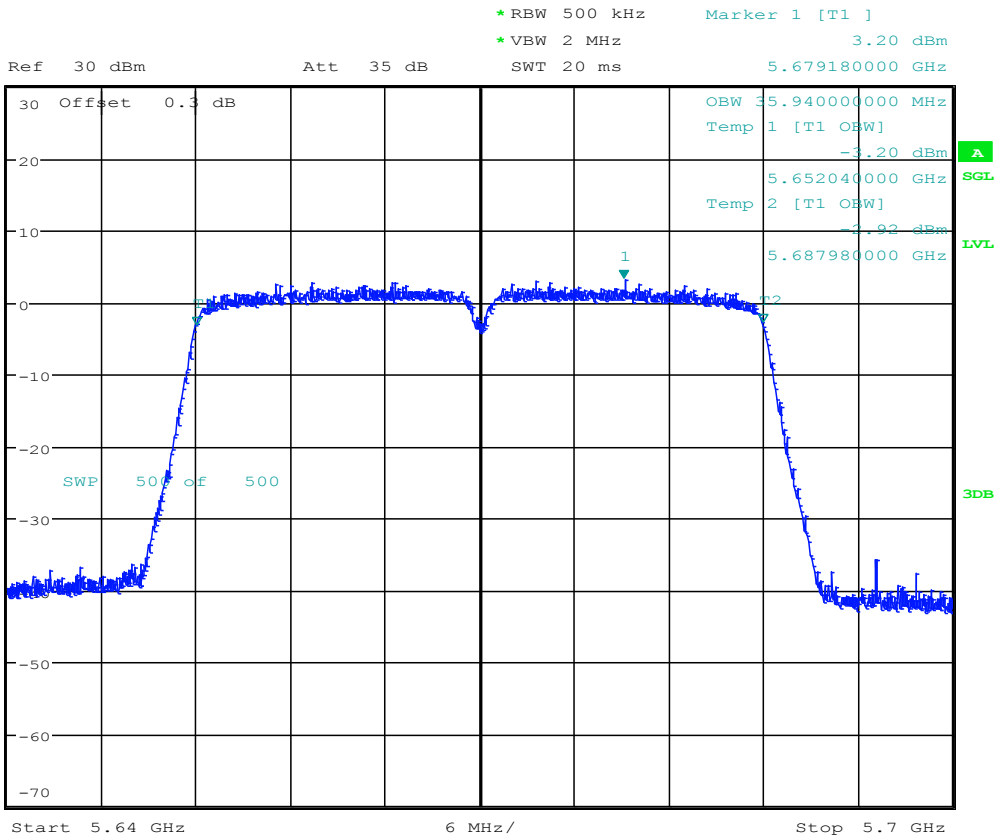
*RBW 500 kHz Marker 1 [T1]
 *VBW 2 MHz 2.59 dBm
 Ref 30 dBm Att 35 dB SWT 20 ms 5.504620000 GHz



Date: 16.JUL.2018 16:14:17



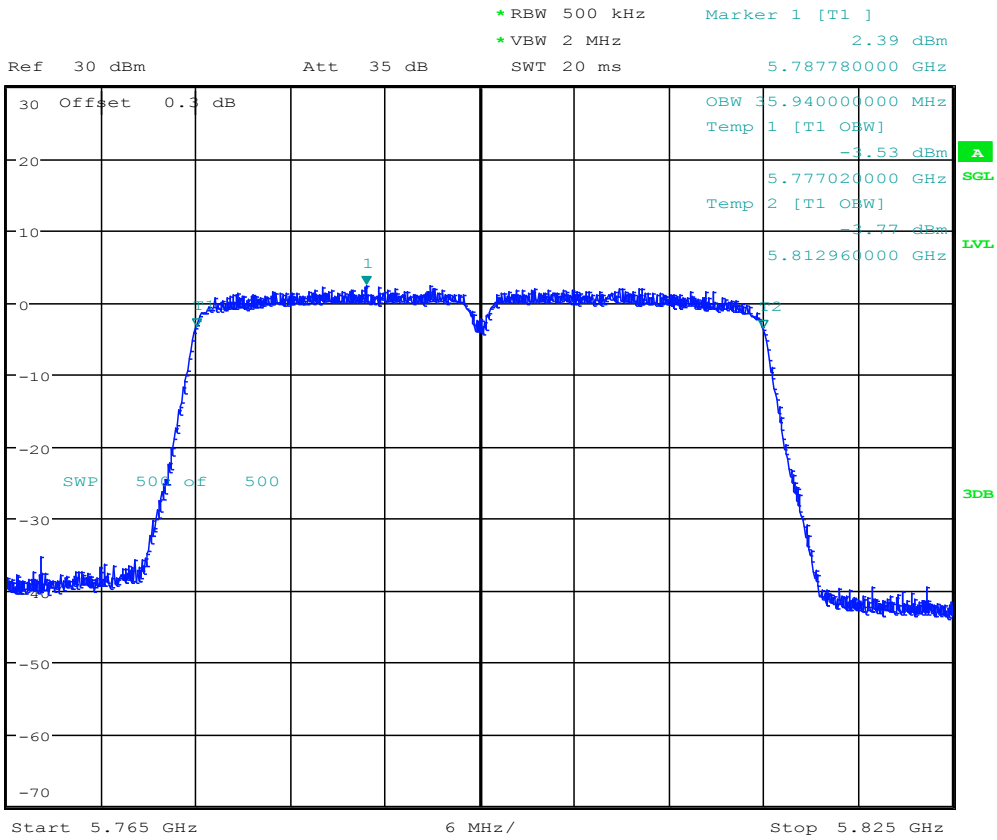
6.38 11AC40_134 ANT 1



Date: 16.JUL.2018 16:17:48



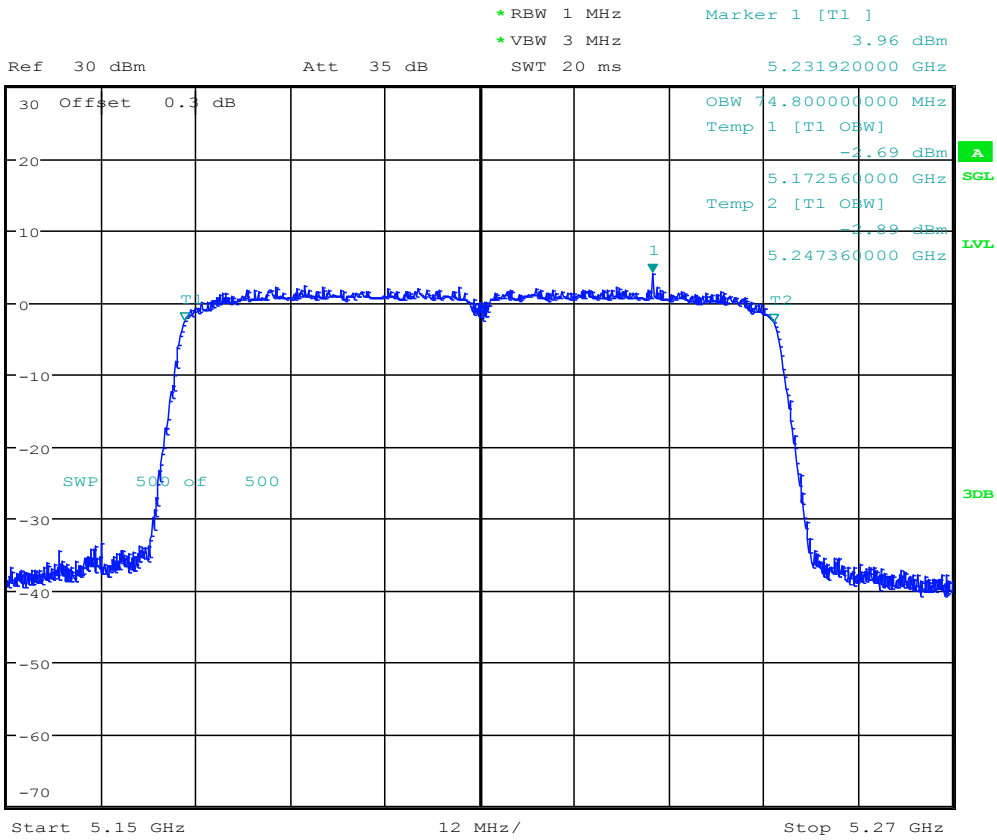
6.40 11AC40_159 ANT 1



Date: 16.JUL.2018 16:31:15



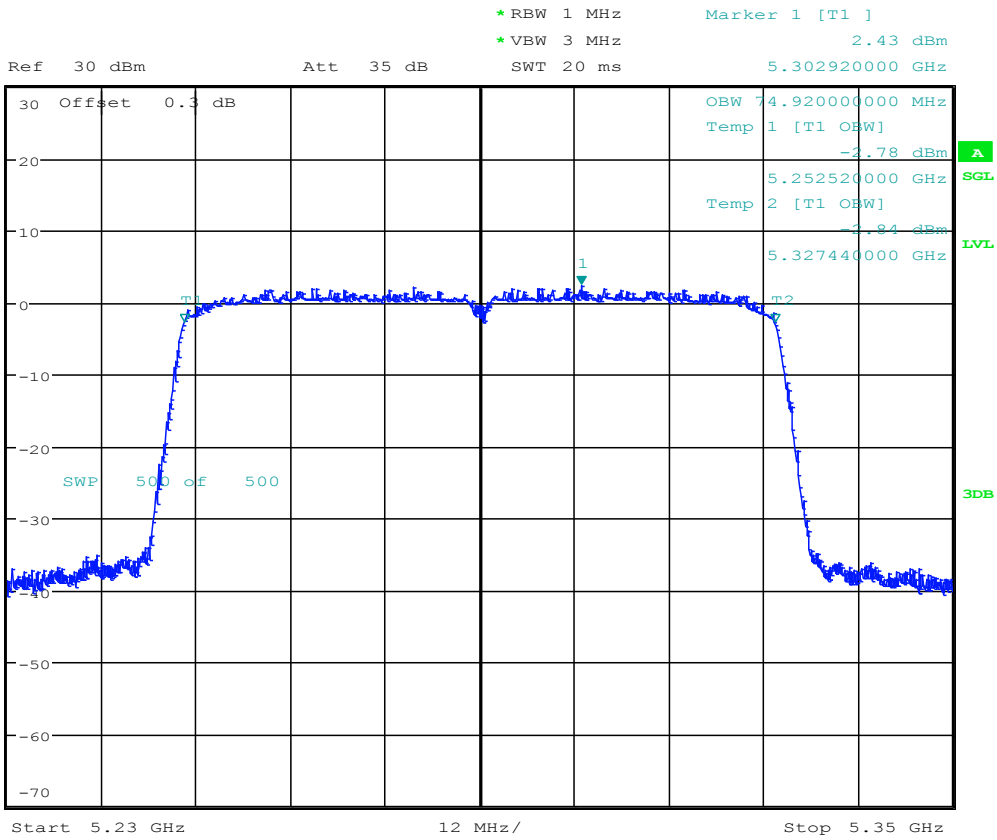
6.41 11AC80_42 ANT 1



Date: 16.JUL.2018 16:36:29



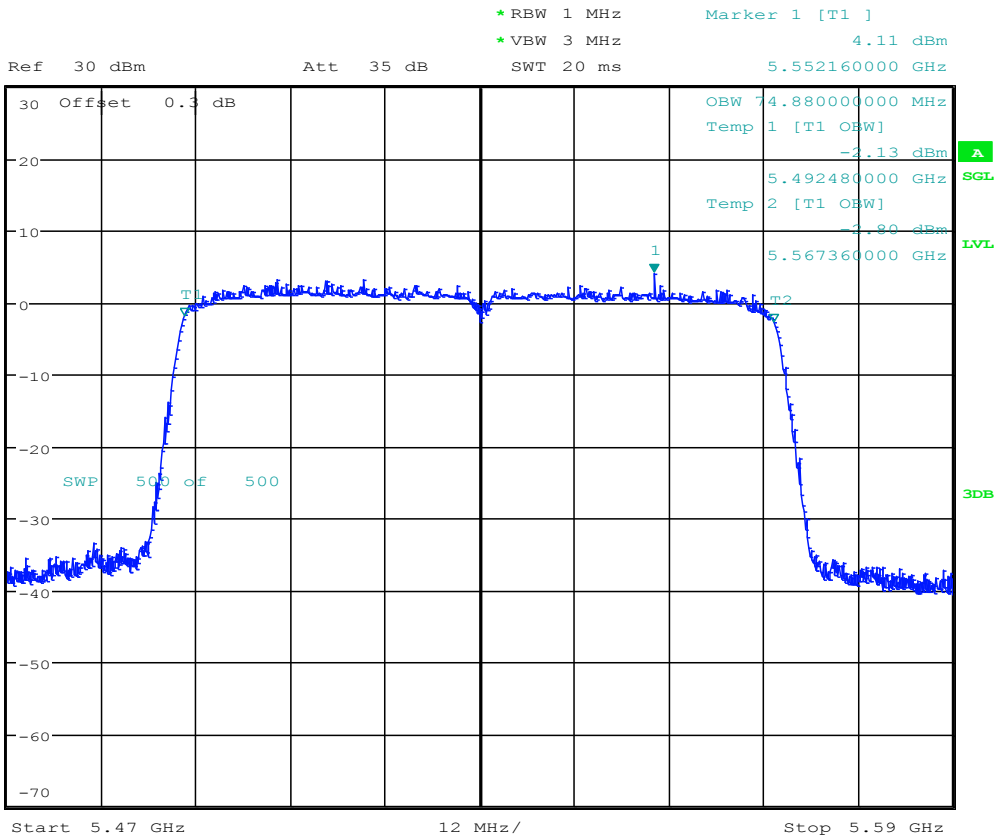
6.42 11AC80_58 ANT 1



Date: 16.JUL.2018 16:42:28



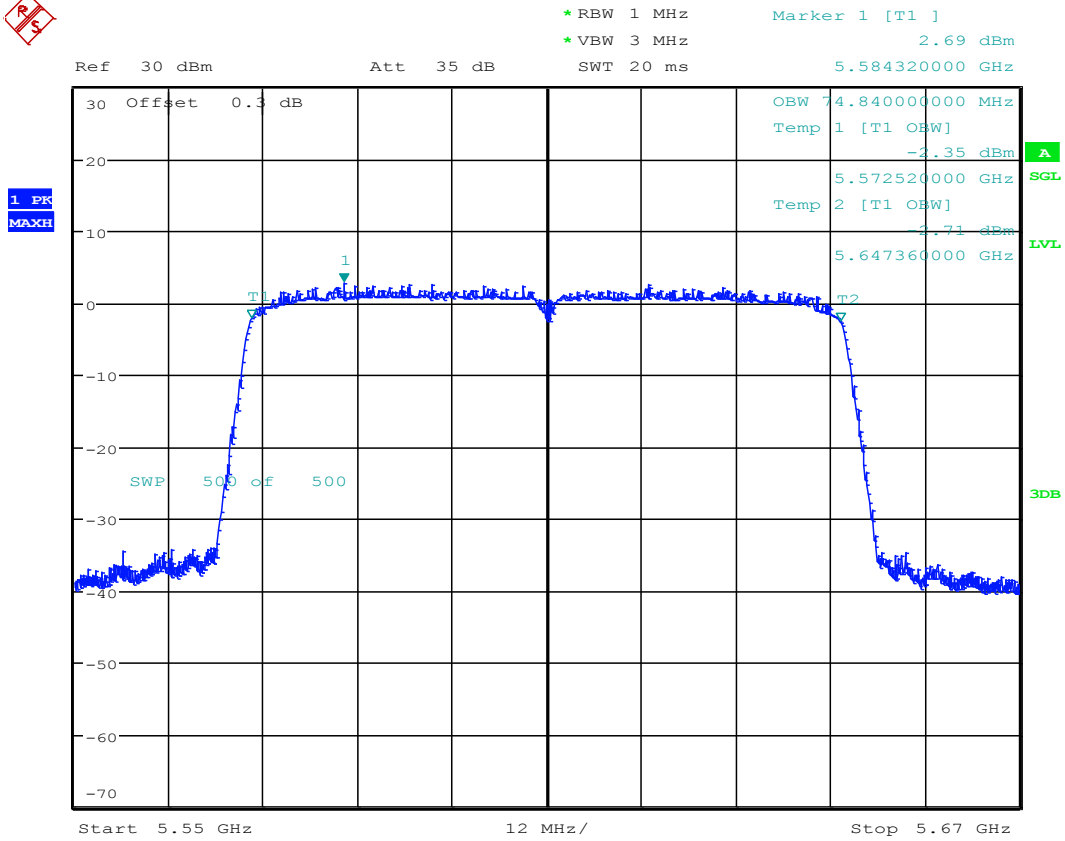
6.43 11AC80_106 ANT 1



Date: 16.JUL.2018 16:48:56



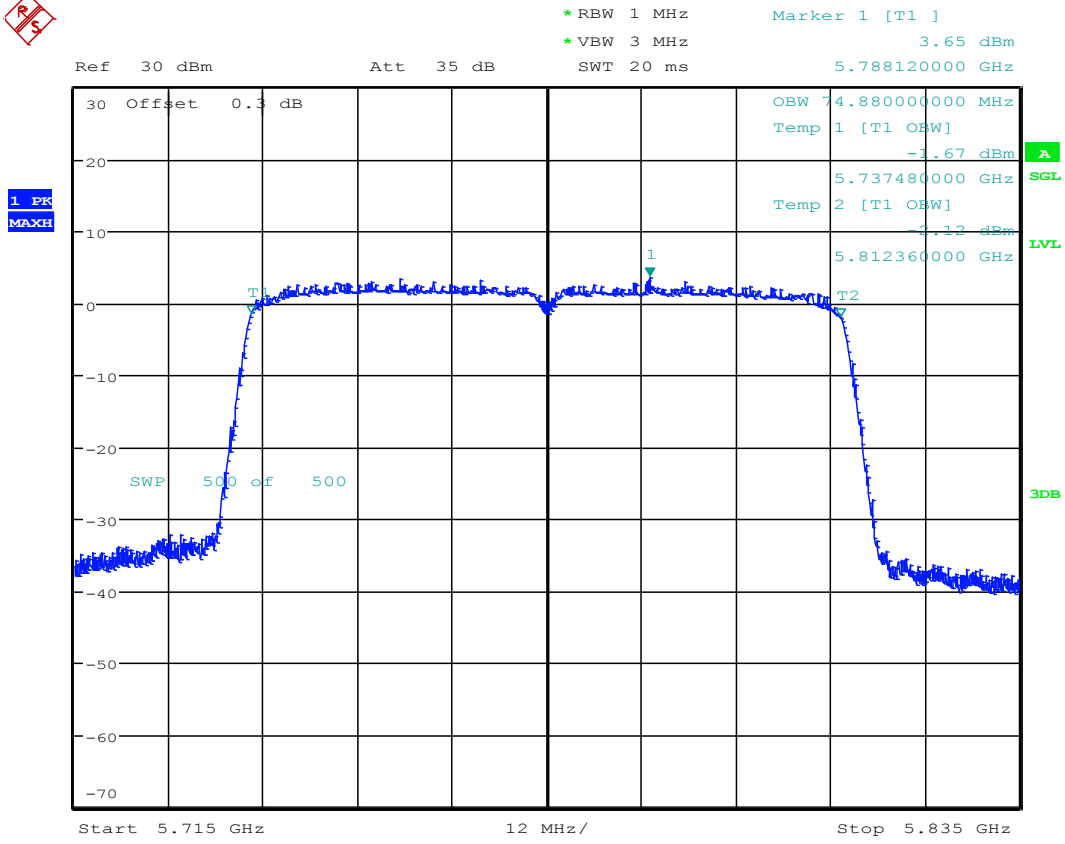
6.44 11AC80_122 ANT 1



Date: 16.JUL.2018 16:52:39



6.45 11AC80_155 ANT 1



Date: 16.JUL.2018 17:01:47



Appendix C: Duty Cycle



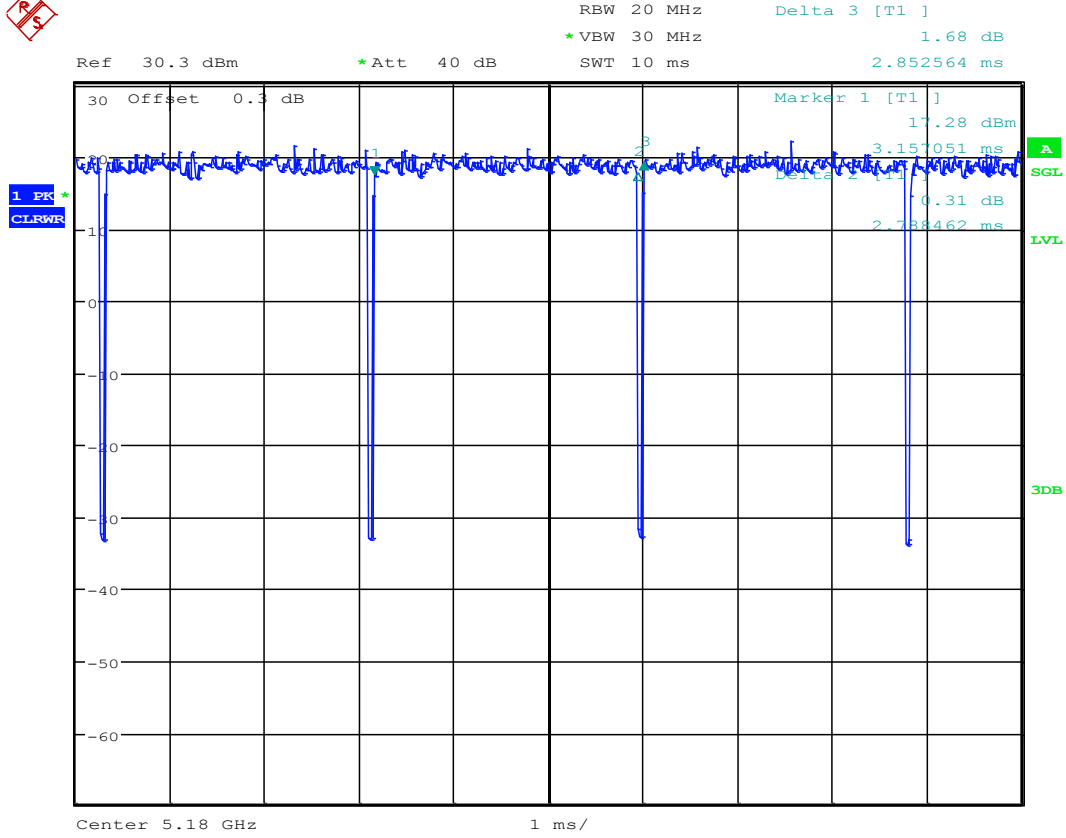
7 Part I - Test Results

Test Mode	Antenna Port	Power Conf.,	Duty cycle [%]
11A20	ANT 1	14	97.8
11N20	ANT 1	13	97.6
11N40	ANT 1	12	96.3
11AC20	ANT 1	13	99.1
11AC40	ANT 1	12	98.1
11AC80	ANT 1	12	96.0



8 Test Plot

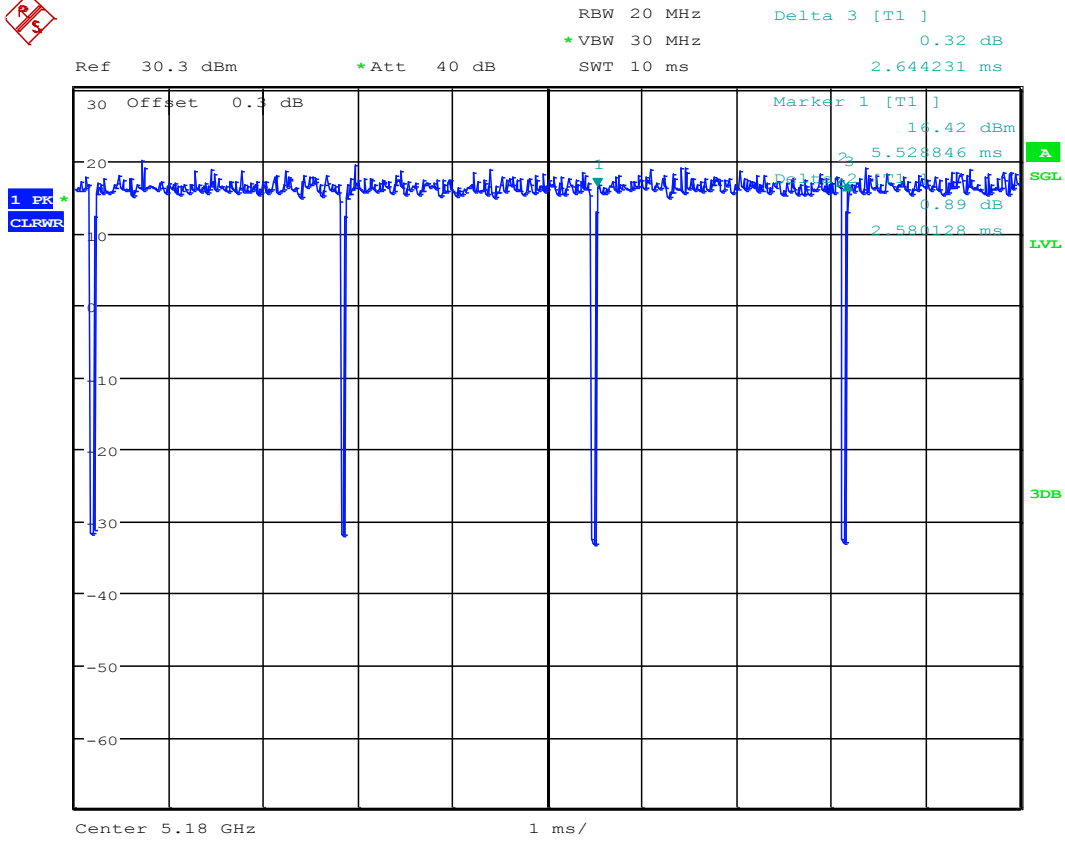
8.1 11A20



Date: 16.JUL.2018 09:12:57



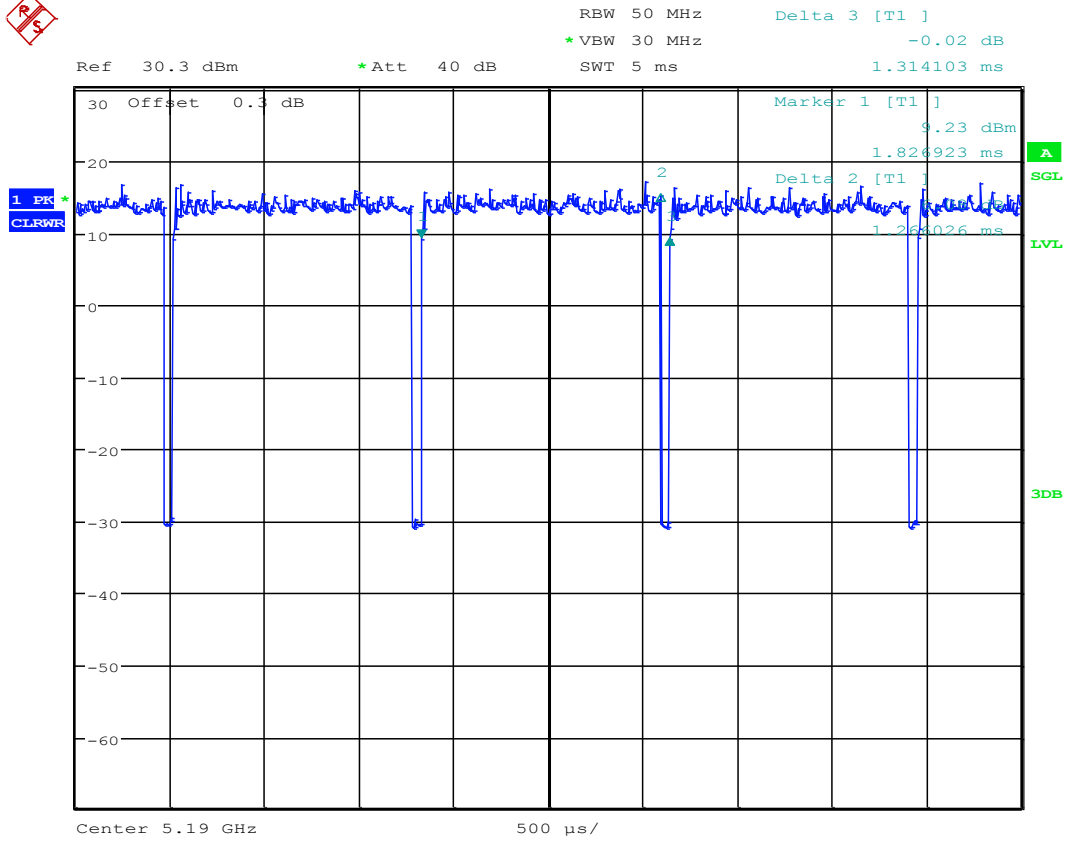
8.2 11n20



Date: 16.JUL.2018 09:17:04



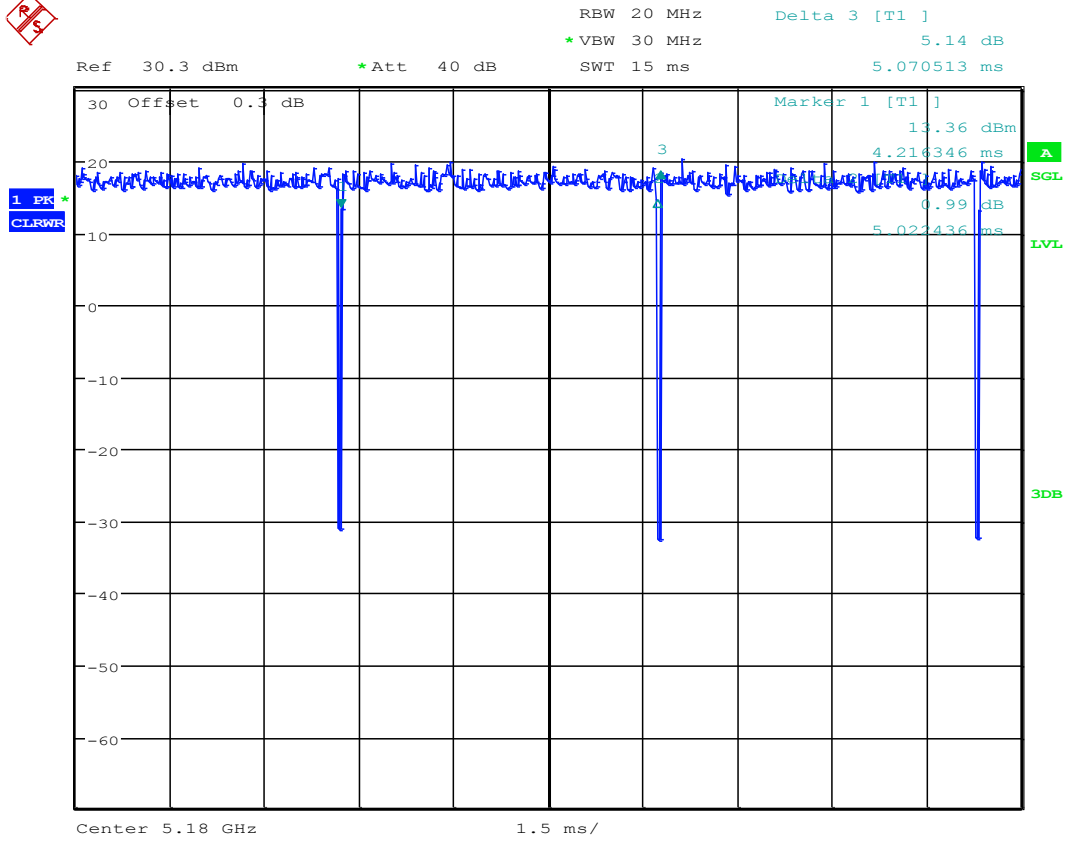
8.3 11n40



Date: 16.JUL.2018 09:20:06



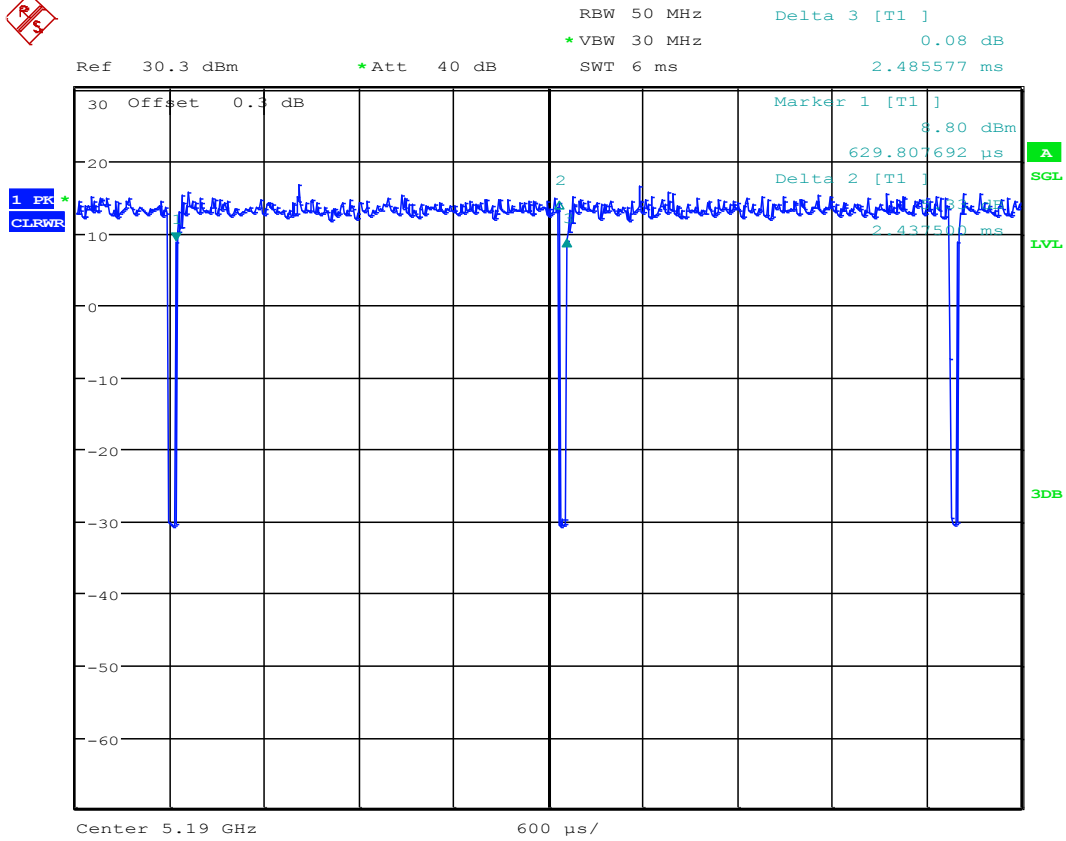
8.4 11ac20



Date: 16.JUL.2018 09:27:11



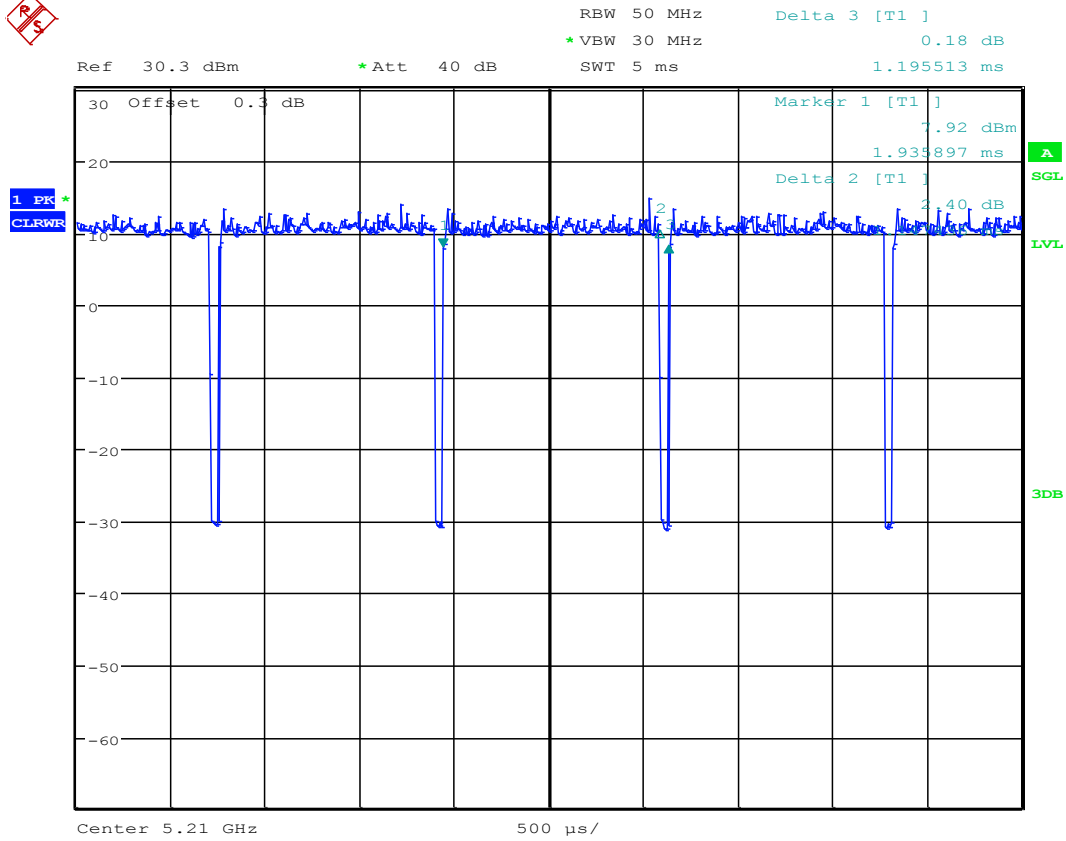
8.5 11ac40



Date: 16.JUL.2018 09:29:03



8.6 11ac80



Date: 16.JUL.2018 09:31:06



Appendix D: Maximum Conducted Output Power



9 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	EIRP [dBm]	Verdict
11A20	36	5180	ANT 1	13.39	12.09	PASS
	48	5240	ANT 1	13.46	12.16	PASS
	52	5260	ANT 1	13.13	11.83	PASS
	64	5320	ANT 1	13.11	11.81	PASS
	100	5500	ANT 1	13.73	12.43	PASS
	140	5700	ANT 1	14.02	12.72	PASS
	149	5745	ANT 1	14.18	12.88	PASS
	165	5825	ANT 1	13.24	11.94	PASS
11N20	36	5180	ANT 1	11.52	10.22	PASS
	48	5240	ANT 1	11.68	10.38	PASS
	52	5260	ANT 1	11.38	10.08	PASS
	64	5320	ANT 1	11.37	10.07	PASS
	100	5500	ANT 1	11.99	10.69	PASS
	140	5700	ANT 1	12.32	11.02	PASS
	149	5745	ANT 1	12.49	11.19	PASS
	165	5825	ANT 1	11.56	10.26	PASS
11N40	38	5190	ANT 1	10.91	9.61	PASS
	46	5230	ANT 1	11.01	9.71	PASS
	54	5270	ANT 1	10.71	9.41	PASS
	62	5310	ANT 1	10.70	9.40	PASS
	102	5510	ANT 1	11.29	9.99	PASS
	134	5670	ANT 1	11.77	10.47	PASS
	151	5755	ANT 1	11.71	10.41	PASS
	159	5795	ANT 1	11.27	9.97	PASS
11AC20	36	5180	ANT 1	11.39	10.09	PASS
	48	5240	ANT 1	11.54	10.24	PASS
	52	5260	ANT 1	11.23	9.93	PASS
	64	5320	ANT 1	11.23	9.93	PASS
	100	5500	ANT 1	11.86	10.56	PASS
	140	5700	ANT 1	12.19	10.89	PASS
	149	5745	ANT 1	12.37	11.07	PASS
	165	5825	ANT 1	11.43	10.13	PASS
11AC40	38	5190	ANT 1	10.79	9.49	PASS
	46	5230	ANT 1	10.89	9.59	PASS



	54	5270	ANT 1	10.61	9.31	PASS
	62	5310	ANT 1	10.62	9.32	PASS
	102	5510	ANT 1	11.19	9.89	PASS
	134	5670	ANT 1	11.70	10.4	PASS
	151	5755	ANT 1	11.63	10.33	PASS
	159	5795	ANT 1	11.18	9.88	PASS
11AC80	42	5210	ANT 1	10.56	9.26	PASS
	58	5290	ANT 1	10.62	9.32	PASS
	106	5530	ANT 1	11.23	9.93	PASS
	122	5610	ANT 1	11.11	9.81	PASS
	155	5775	ANT 1	11.67	10.37	PASS



Appendix E: Peak Power Spectral Density Level



10 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	EIRP [dBm]	Verdict
11A20	36	5180	ANT 1	2.62	1.32	PASS
	48	5240	ANT 1	2.54	1.24	PASS
	52	5260	ANT 1	2.36	1.06	PASS
	64	5320	ANT 1	2.10	0.80	PASS
	100	5500	ANT 1	2.99	1.69	PASS
	140	5700	ANT 1	2.98	1.68	PASS
	149	5745	ANT 1	1.40	0.10	PASS
	165	5825	ANT 1	0.21	-1.09	PASS
11N20	36	5180	ANT 1	0.75	-0.55	PASS
	48	5240	ANT 1	0.75	-0.55	PASS
	52	5260	ANT 1	0.07	-1.23	PASS
	64	5320	ANT 1	0.20	-1.10	PASS
	100	5500	ANT 1	1.05	-0.25	PASS
	140	5700	ANT 1	1.25	-0.05	PASS
	149	5745	ANT 1	-0.69	-1.99	PASS
	165	5825	ANT 1	-1.45	-2.75	PASS
11N40	38	5190	ANT 1	-2.92	-4.22	PASS
	46	5230	ANT 1	-2.78	-4.08	PASS
	54	5270	ANT 1	-3.35	-4.65	PASS
	62	5310	ANT 1	-3.20	-4.50	PASS
	102	5510	ANT 1	-2.42	-3.72	PASS
	134	5670	ANT 1	-2.24	-3.54	PASS
	151	5755	ANT 1	-4.02	-5.32	PASS
	159	5795	ANT 1	-4.03	-5.33	PASS
11AC20	36	5180	ANT 1	0.21	-1.09	PASS
	48	5240	ANT 1	0.20	-1.10	PASS
	52	5260	ANT 1	-0.23	-1.53	PASS
	64	5320	ANT 1	-0.01	-1.31	PASS
	100	5500	ANT 1	0.83	-0.47	PASS
	140	5700	ANT 1	0.90	-0.40	PASS
	149	5745	ANT 1	-0.99	-2.29	PASS
	165	5825	ANT 1	-1.94	-3.24	PASS
11AC40	38	5190	ANT 1	-3.14	-4.44	PASS
	46	5230	ANT 1	-3.17	-4.47	PASS
	54	5270	ANT 1	-3.71	-5.01	PASS

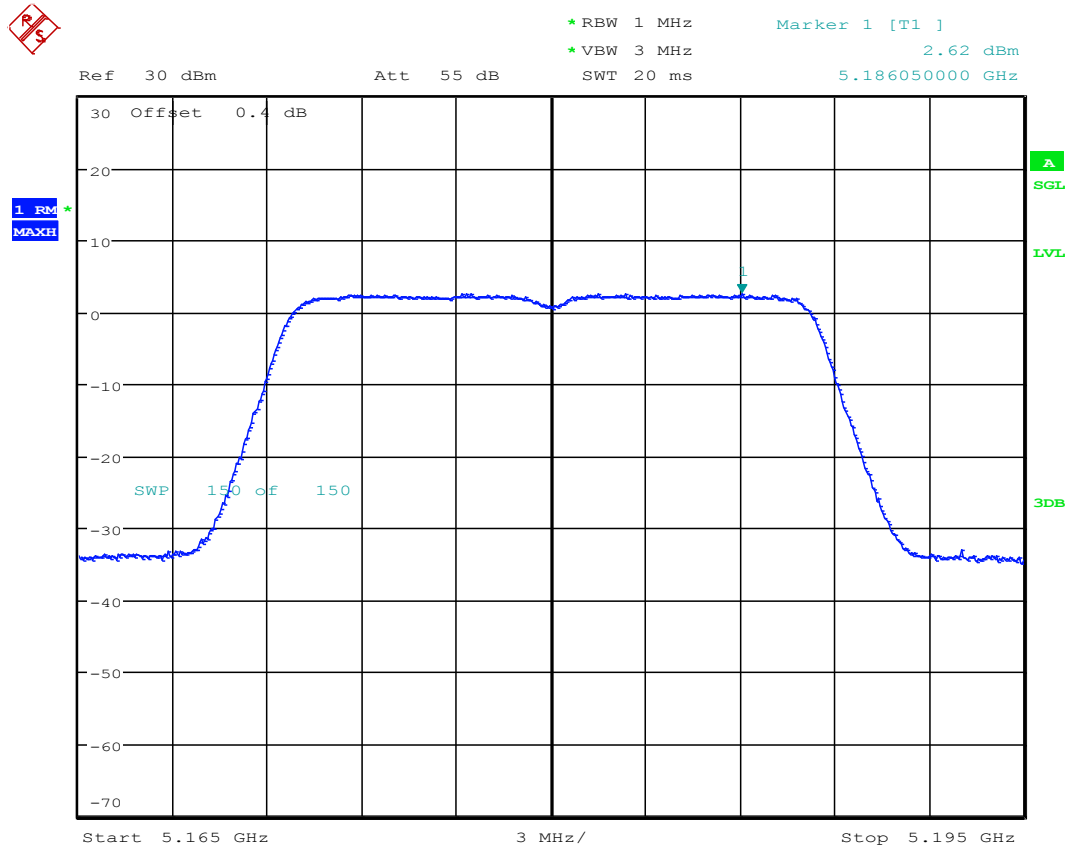


	62	5310	ANT 1	-3.32	-4.62	PASS
	102	5510	ANT 1	-2.62	-3.92	PASS
	134	5670	ANT 1	-2.39	-3.69	PASS
	151	5755	ANT 1	-4.17	-5.47	PASS
	159	5795	ANT 1	-4.79	-6.09	PASS
11AC80	42	5210	ANT 1	-5.68	-6.98	PASS
	58	5290	ANT 1	-6.16	-7.46	PASS
	106	5530	ANT 1	-5.38	-6.68	PASS
	122	5610	ANT 1	-6.09	-7.39	PASS
	155	5775	ANT 1	-6.45	-7.75	PASS



11 Test Plot

11.1 11A20_36 ANT 1



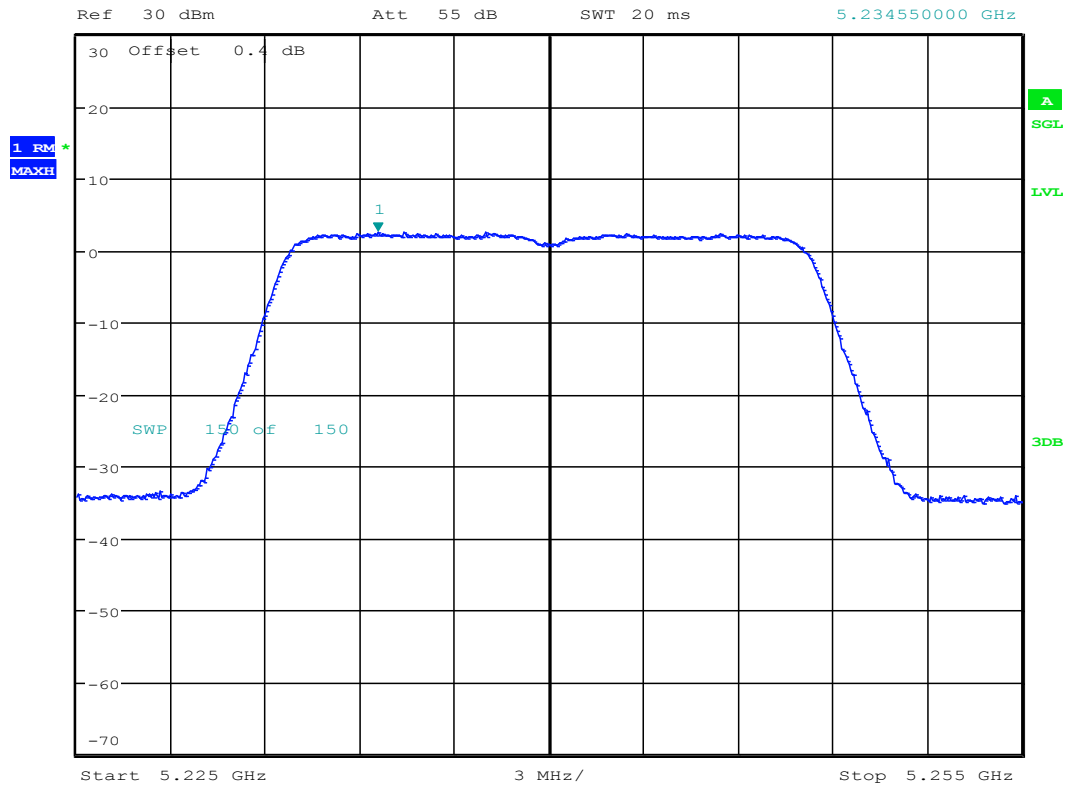
Date: 16.JUL.2018 09:42:34



11.2 11A20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.54 dBm
SWT 20 ms 5.234550000 GHz



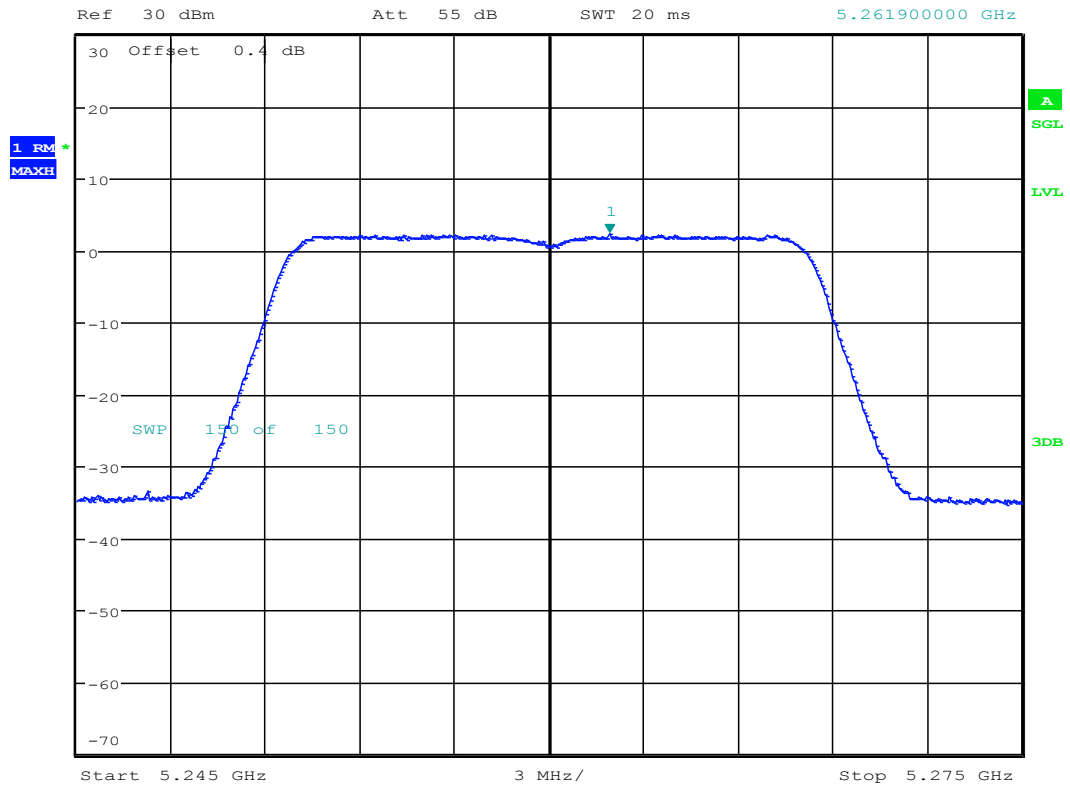
Date: 16.JUL.2018 09:49:08



11.3 11A20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.36 dBm
SWT 20 ms 5.261900000 GHz



Date: 16.JUL.2018 09:57:55

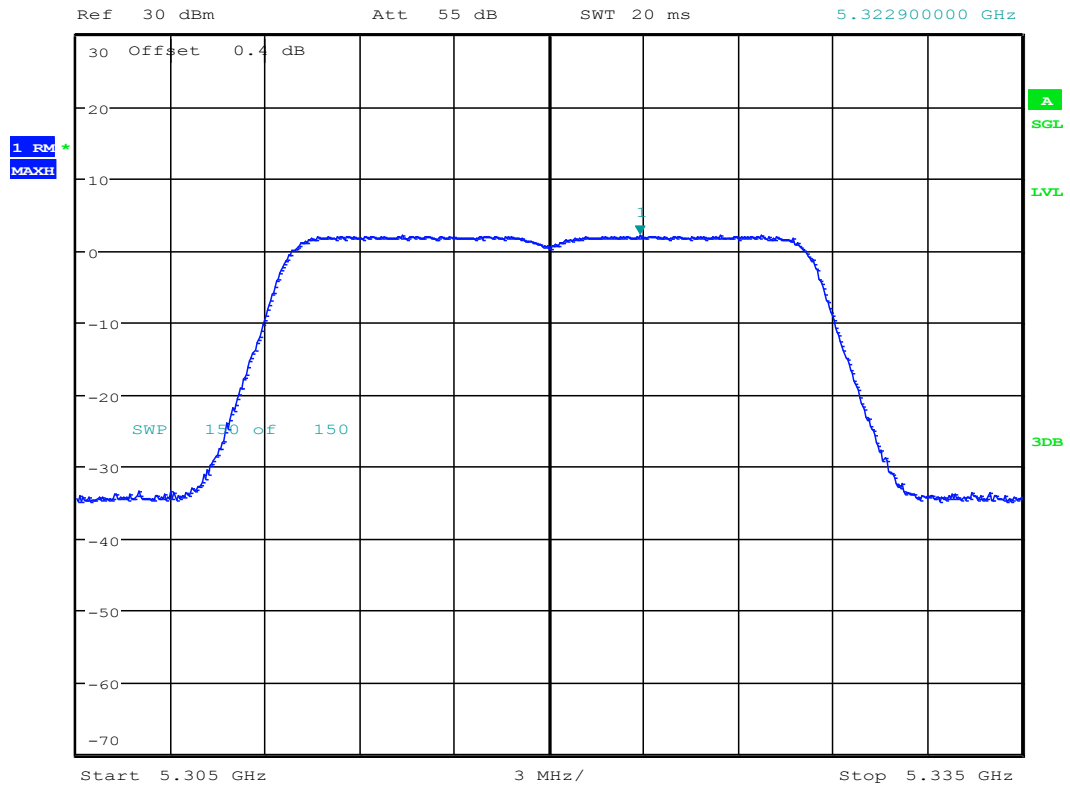


11.4 11A20_64 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
2.10 dBm
5.322900000 GHz



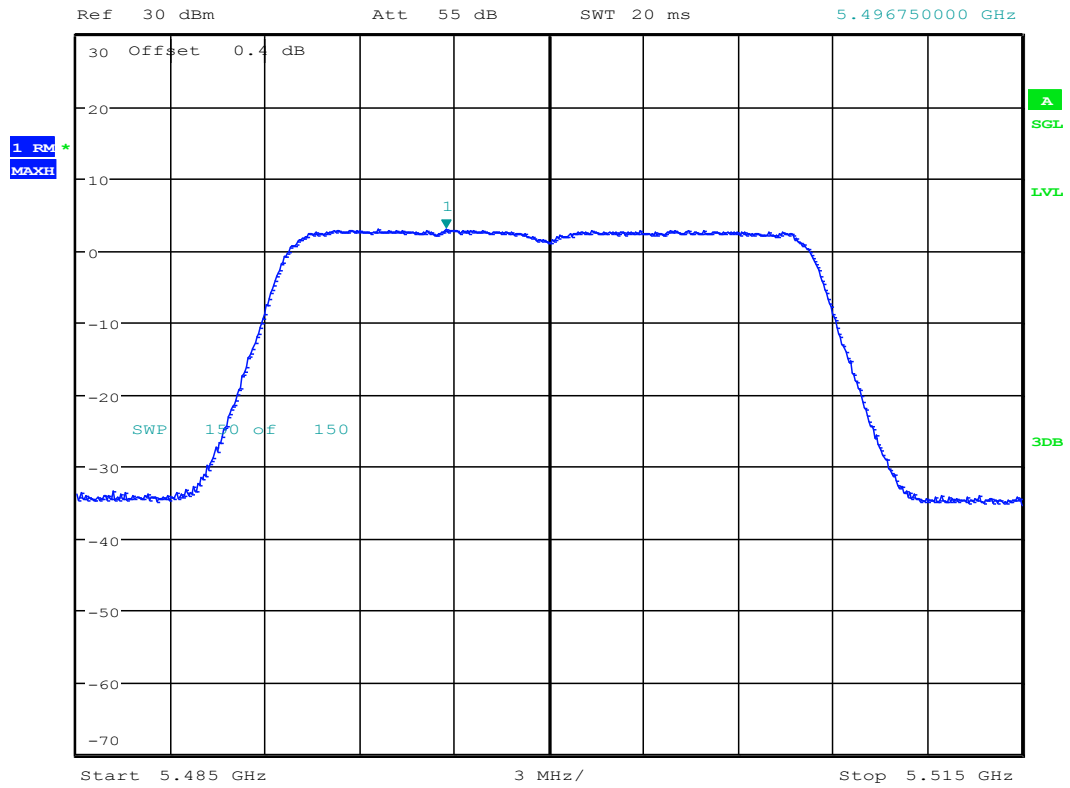
Date: 16.JUL.2018 10:03:09



11.5 11A20_100 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.99 dBm
SWT 20 ms 5.496750000 GHz



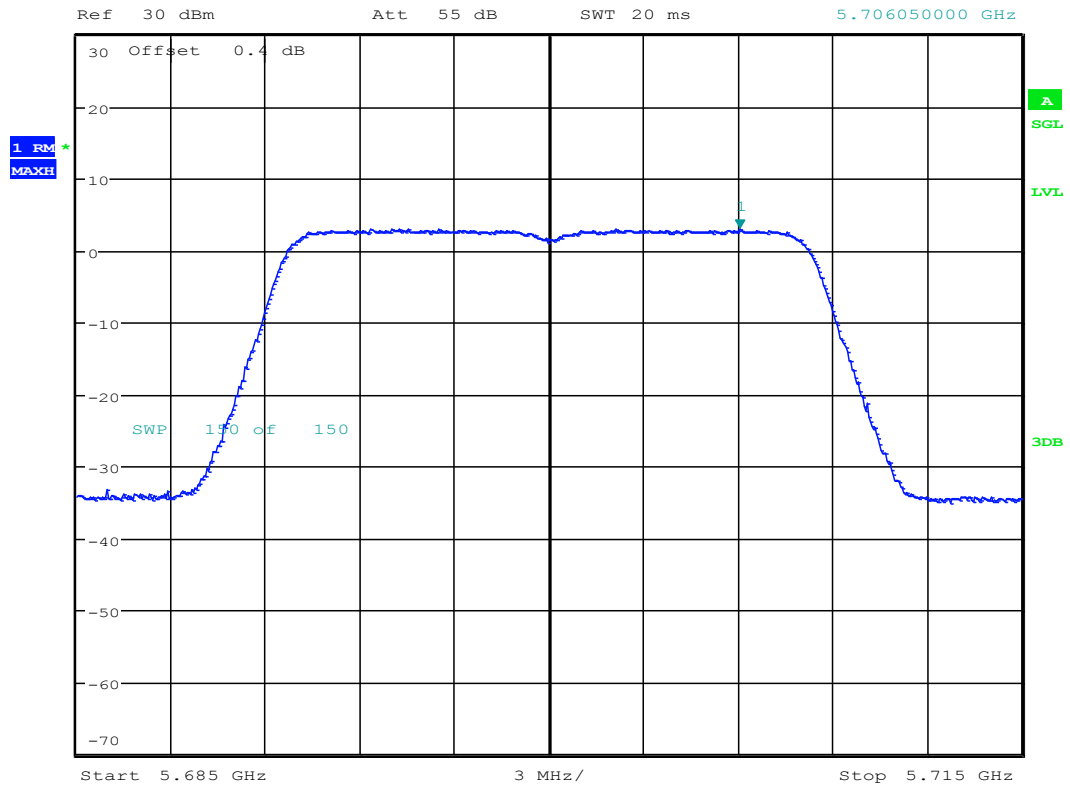
Date: 16.JUL.2018 10:10:48



11.6 11A20_140 ANT 1



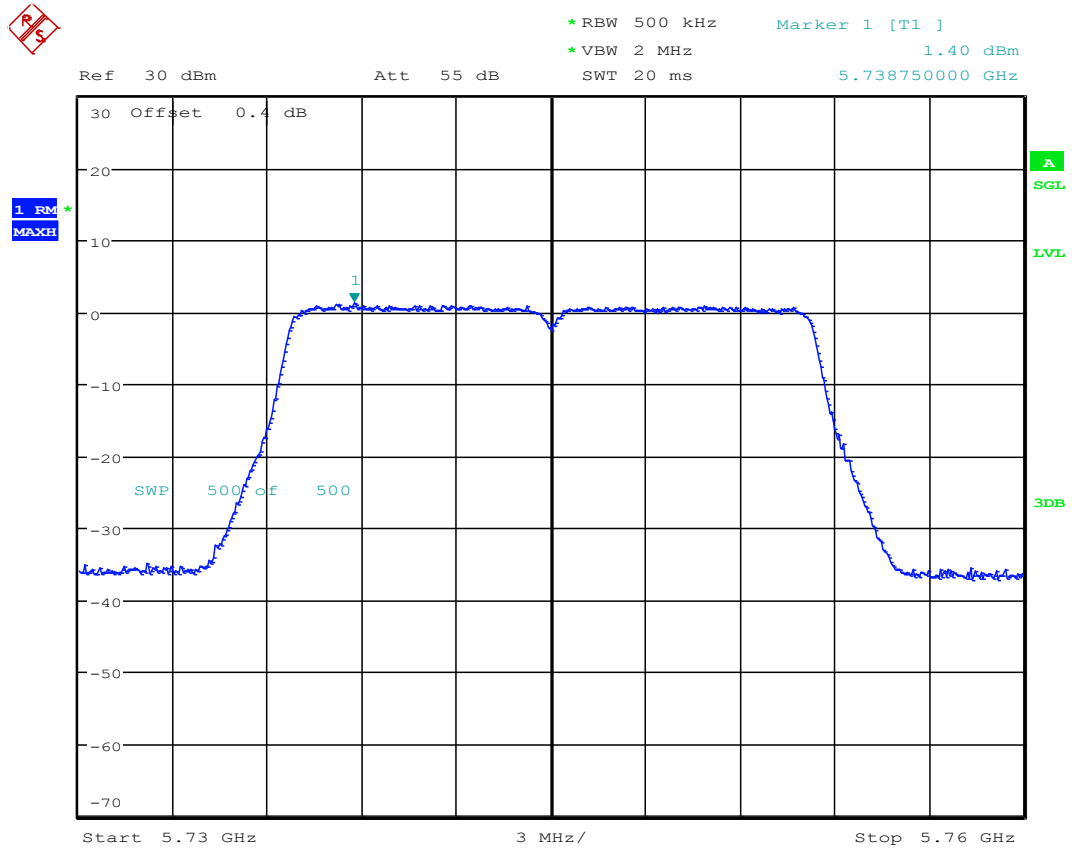
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 2.98 dBm
SWT 20 ms 5.706050000 GHz



Date: 16.JUL.2018 10:14:46



11.7 11A20_149 ANT 1



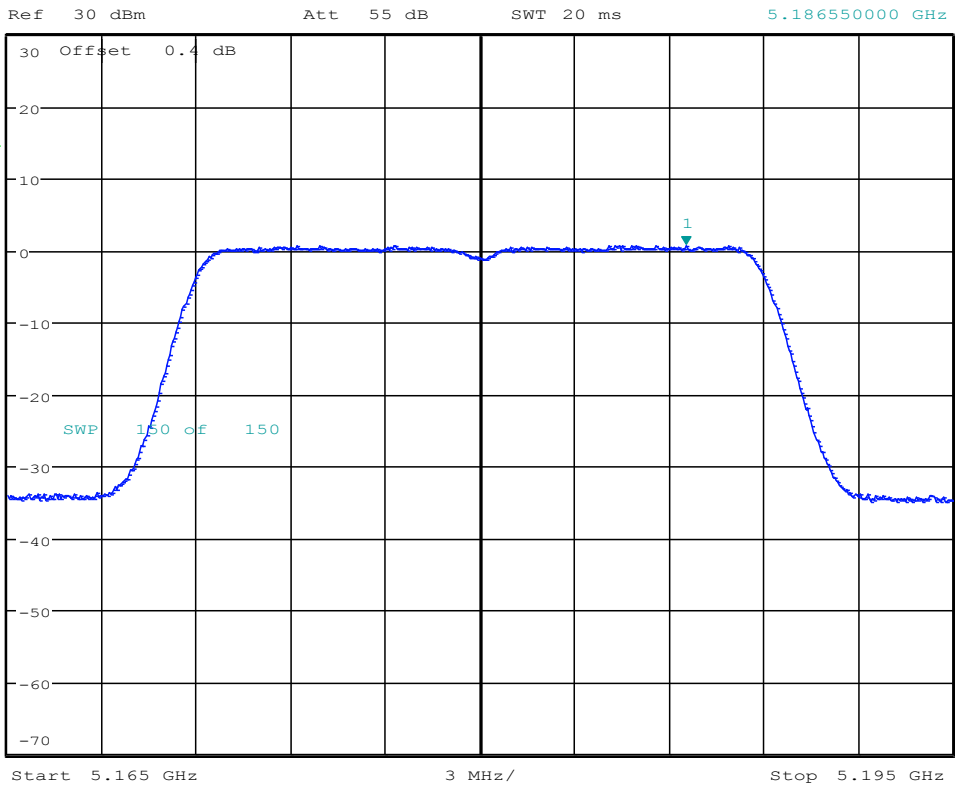
Date: 16.JUL.2018 10:24:35



11.9 11N20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.75 dBm
SWT 20 ms 5.186550000 GHz



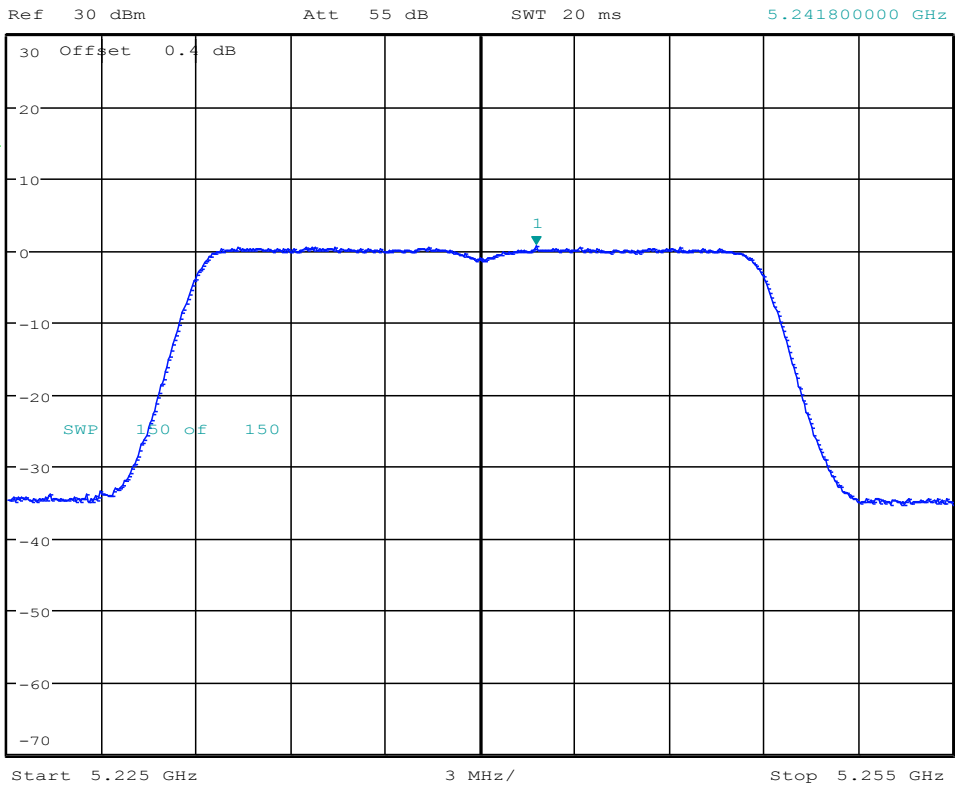
Date: 16.JUL.2018 13:44:10



11.10 11N20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.75 dBm
SWT 20 ms 5.241800000 GHz



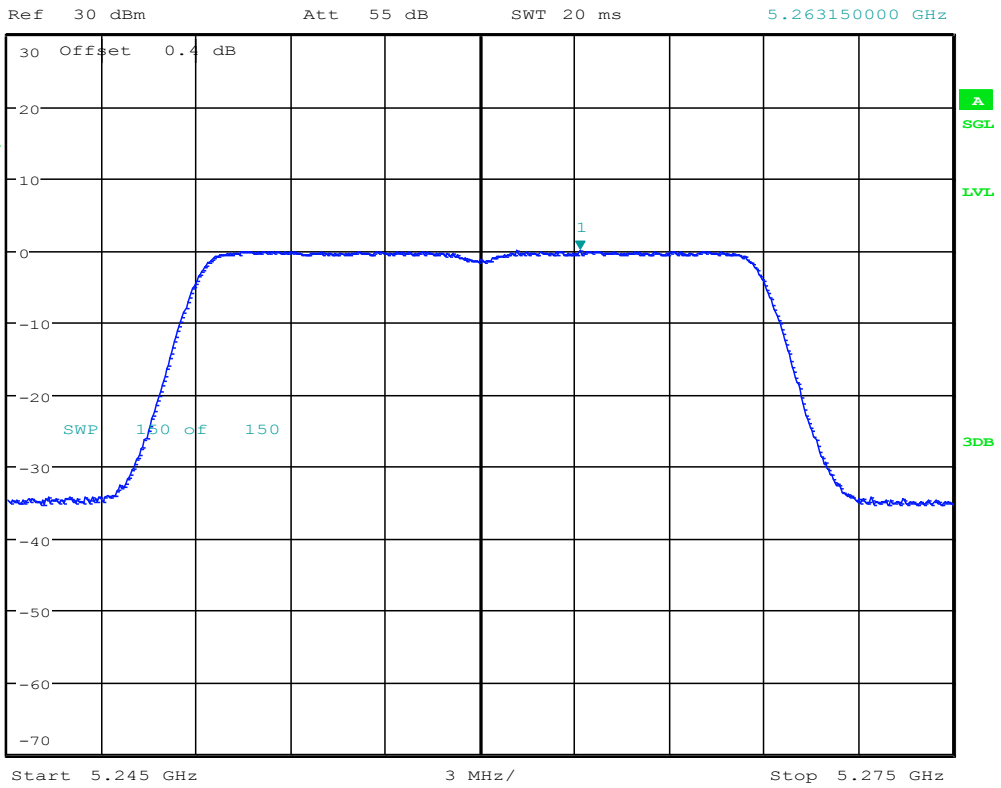
Date: 16.JUL.2018 13:52:29



11.11 11N20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.07 dBm
SWT 20 ms 5.263150000 GHz



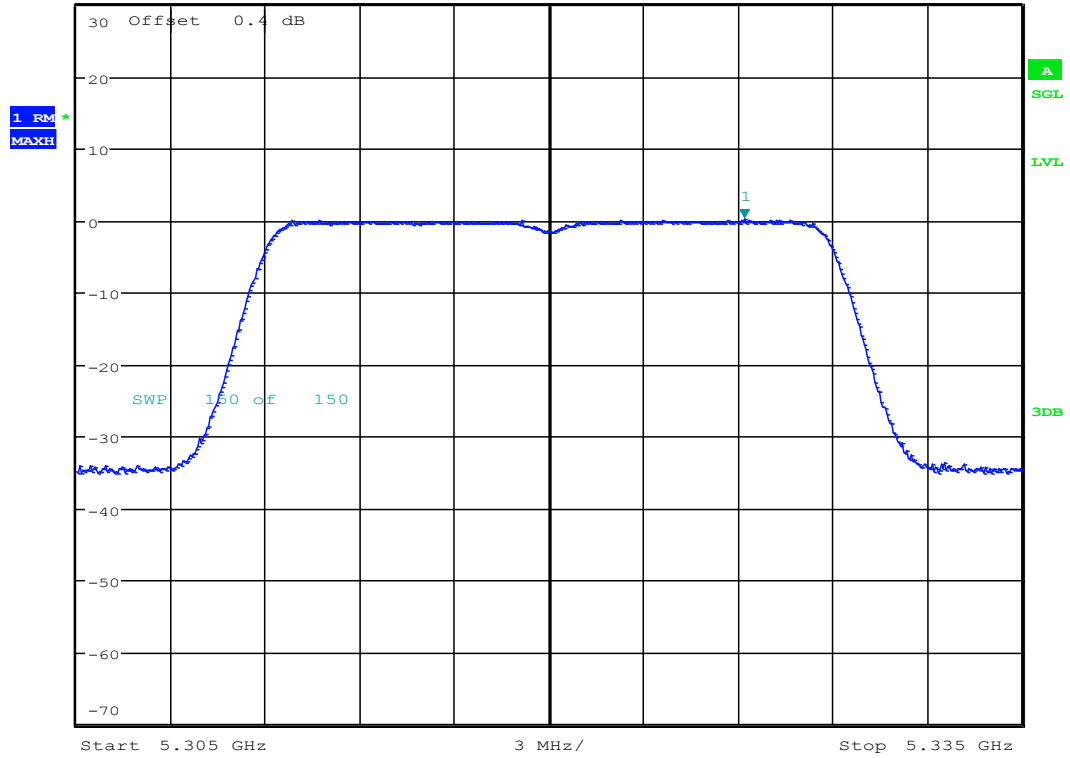
Date: 16.JUL.2018 13:57:08



11.12 11N20_64 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.20 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.326200000 GHz



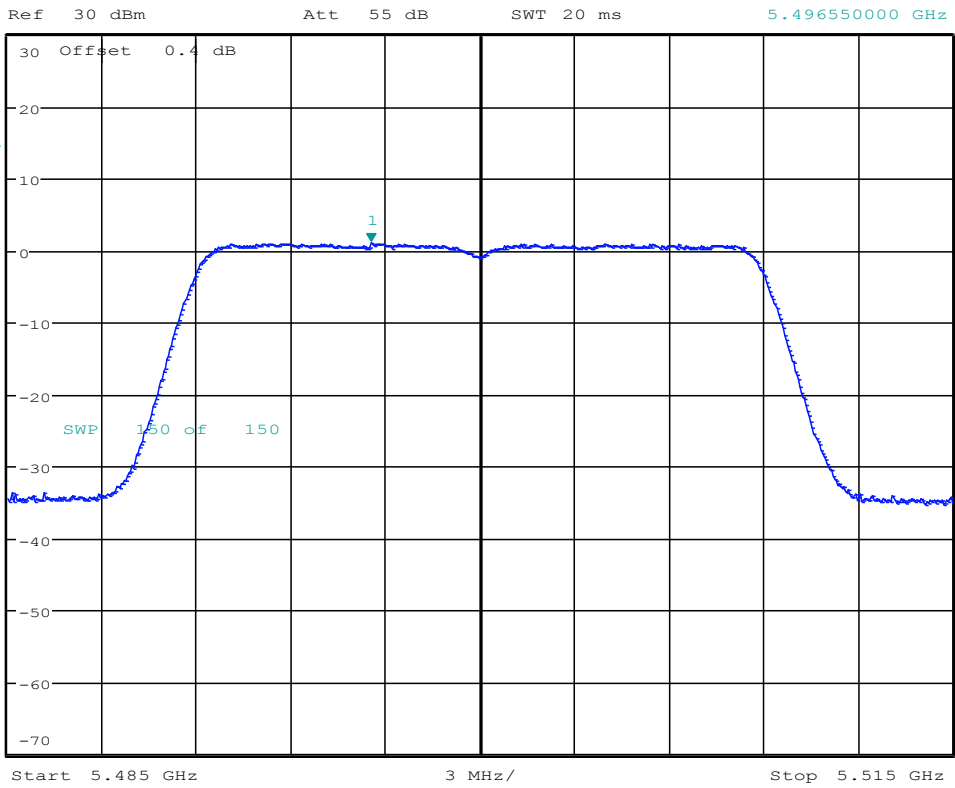
Date: 16.JUL.2018 14:02:40



11.13 11N20_100 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms
Marker 1 [T1]
1.05 dBm
5.496550000 GHz



Date: 16.JUL.2018 14:06:53

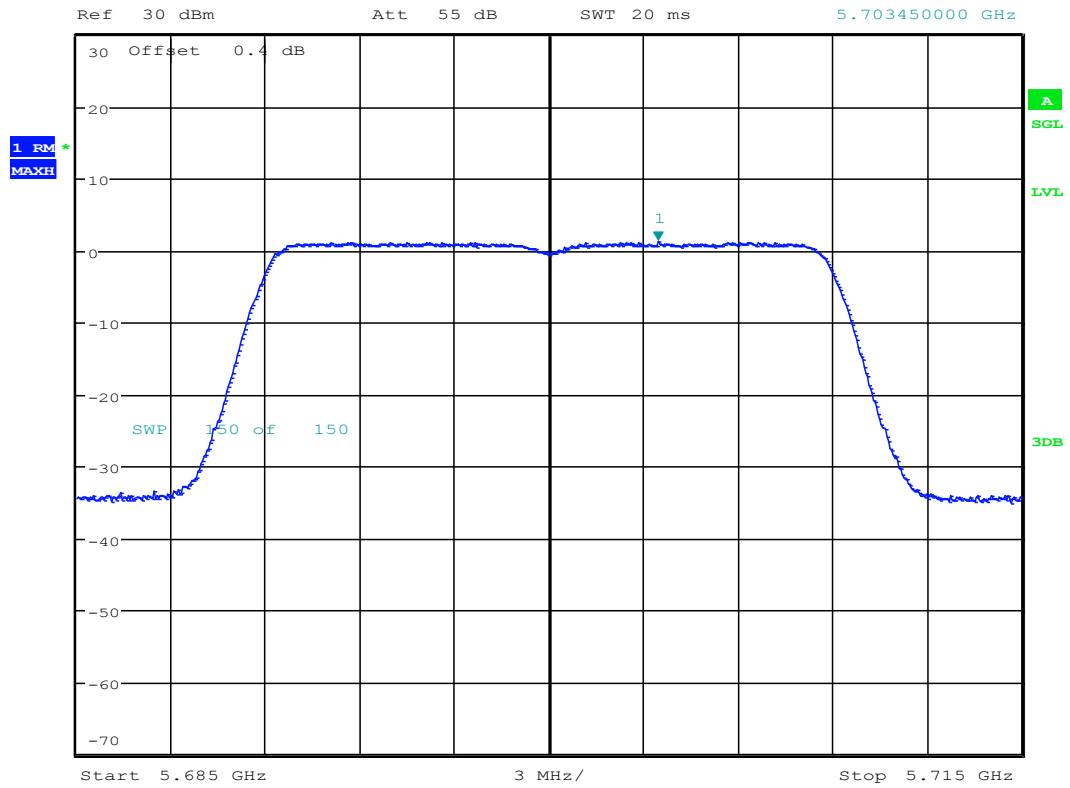


11.14 11N20_140 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
1.25 dBm
5.703450000 GHz



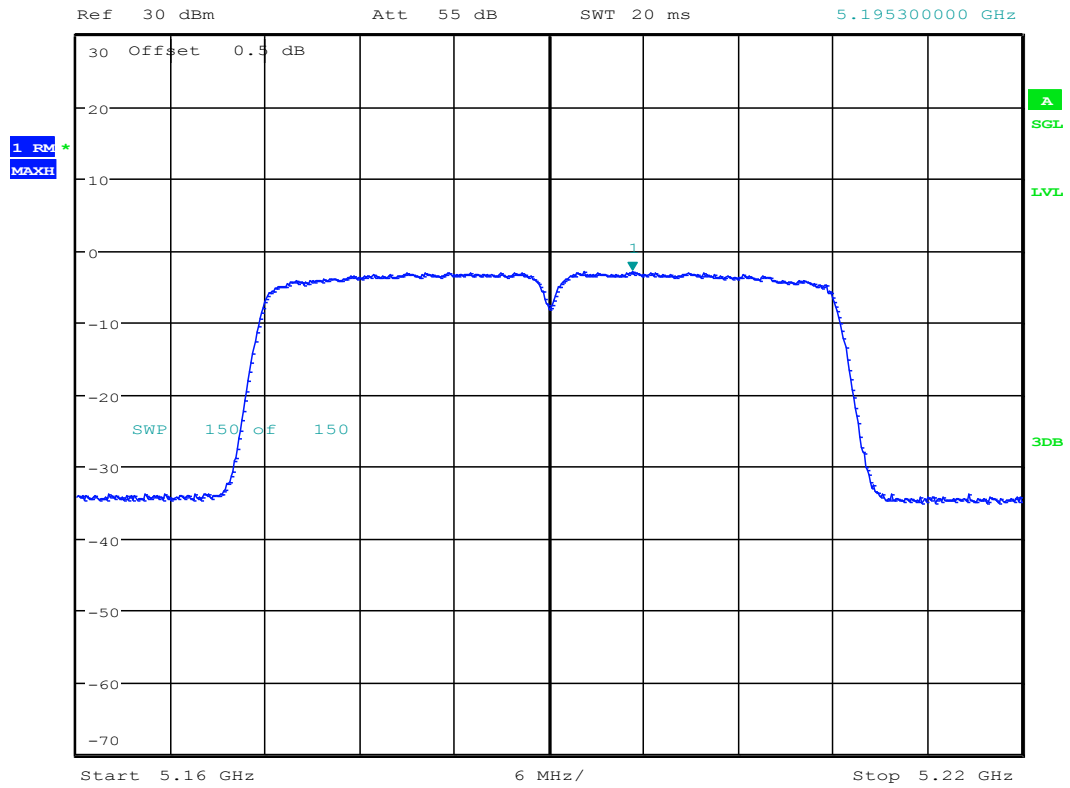
Date: 16.JUL.2018 14:11:13



11.17 11N40_38 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -2.92 dBm
SWT 20 ms 5.195300000 GHz



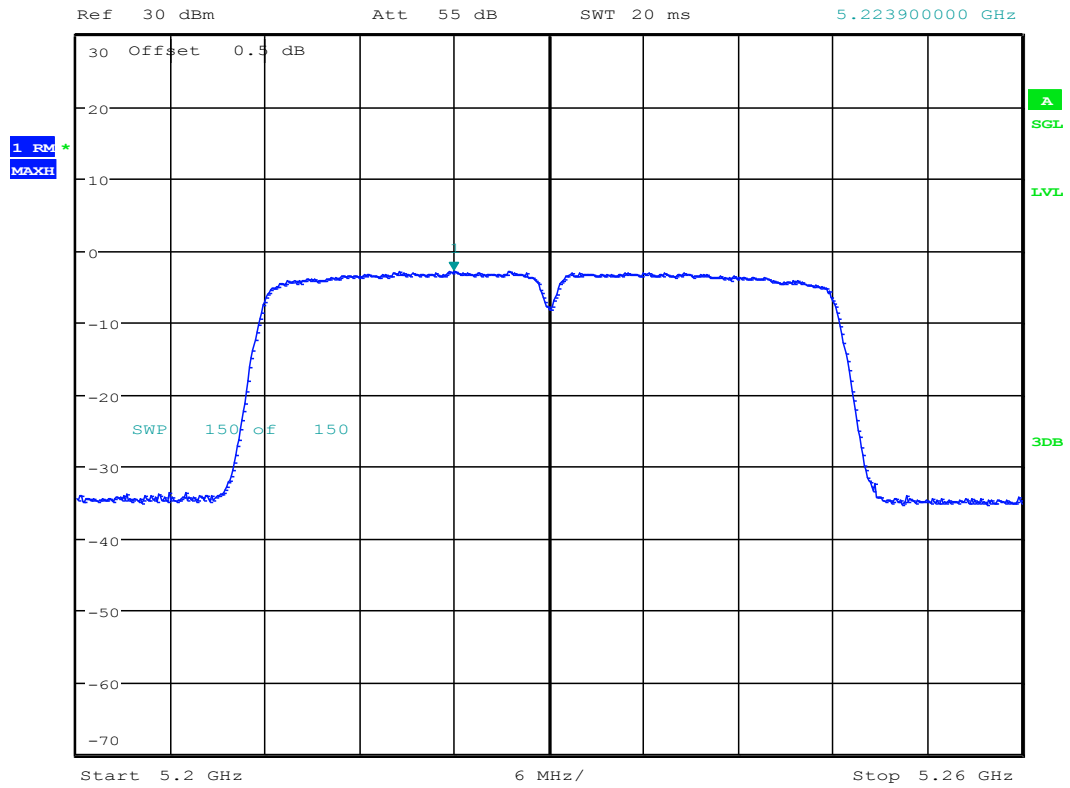
Date: 16.JUL.2018 14:31:18



11.18 11N40_46 ANT 1



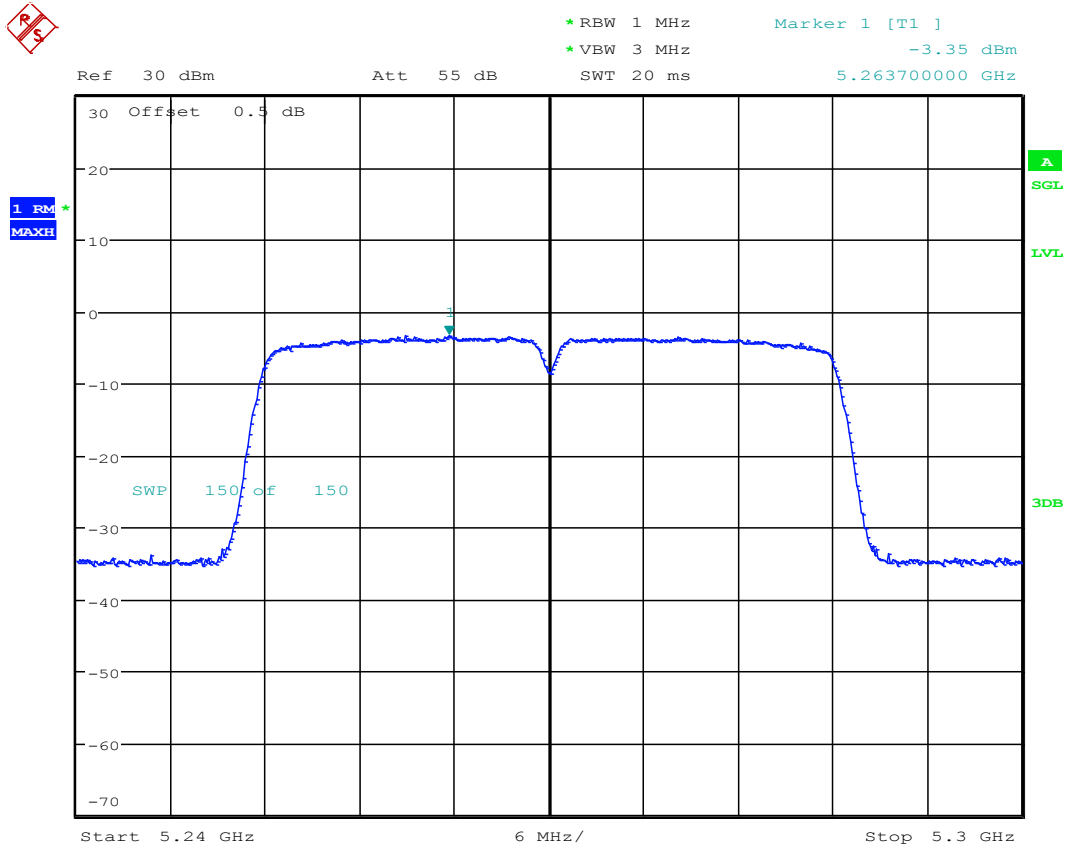
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -2.78 dBm
SWT 20 ms 5.223900000 GHz



Date: 16.JUL.2018 14:36:00



11.19 11N40_54 ANT 1



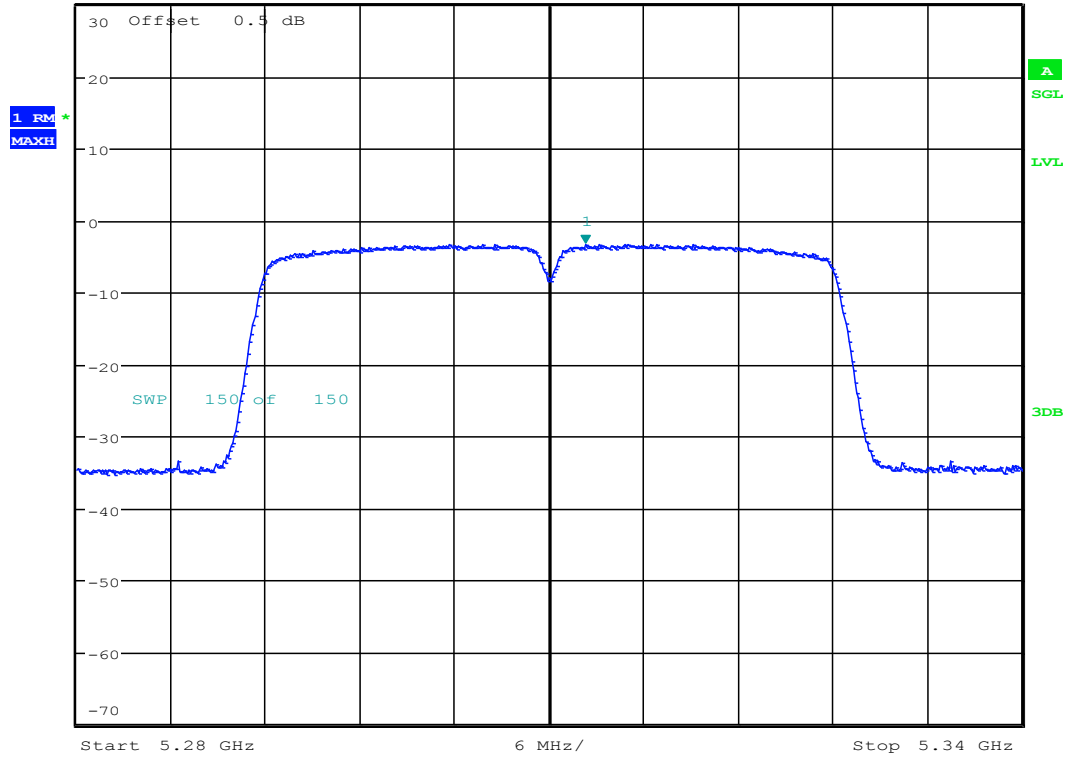
Date: 16.JUL.2018 14:40:12



11.20 11N40_62 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -3.20 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.312300000 GHz



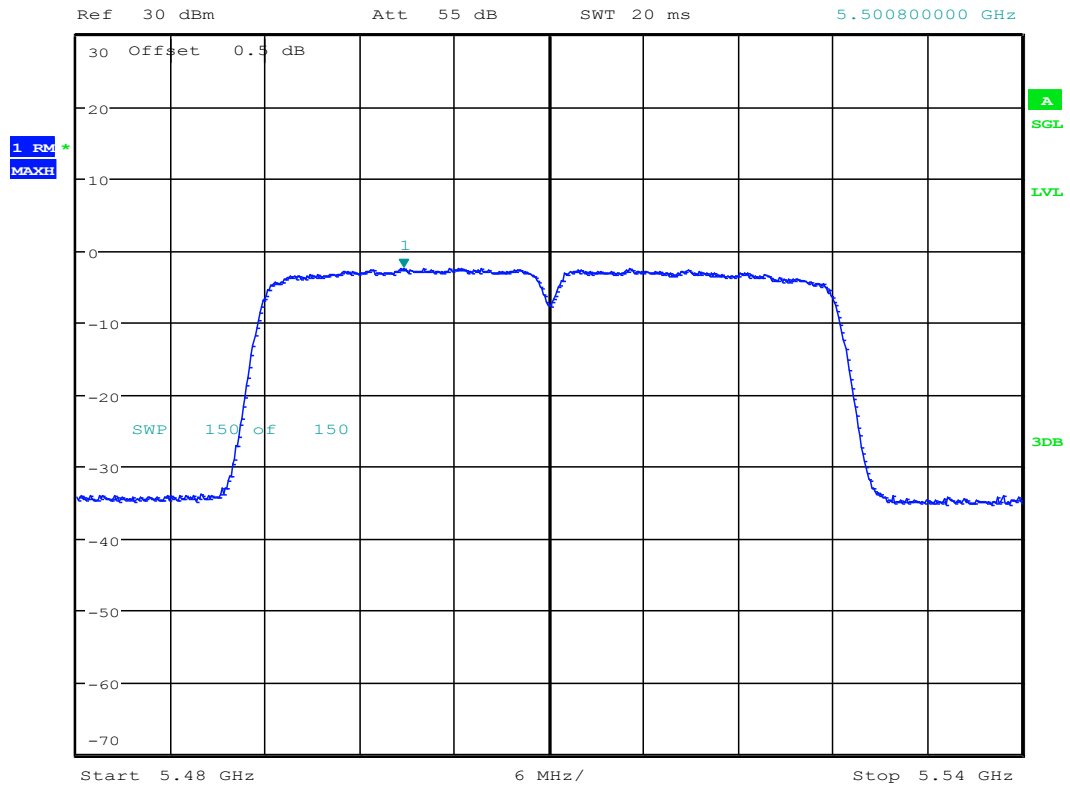
Date: 16.JUL.2018 14:43:56



11.21 11N40_102 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -2.42 dBm
SWT 20 ms 5.500800000 GHz



Date: 16.JUL.2018 14:48:07

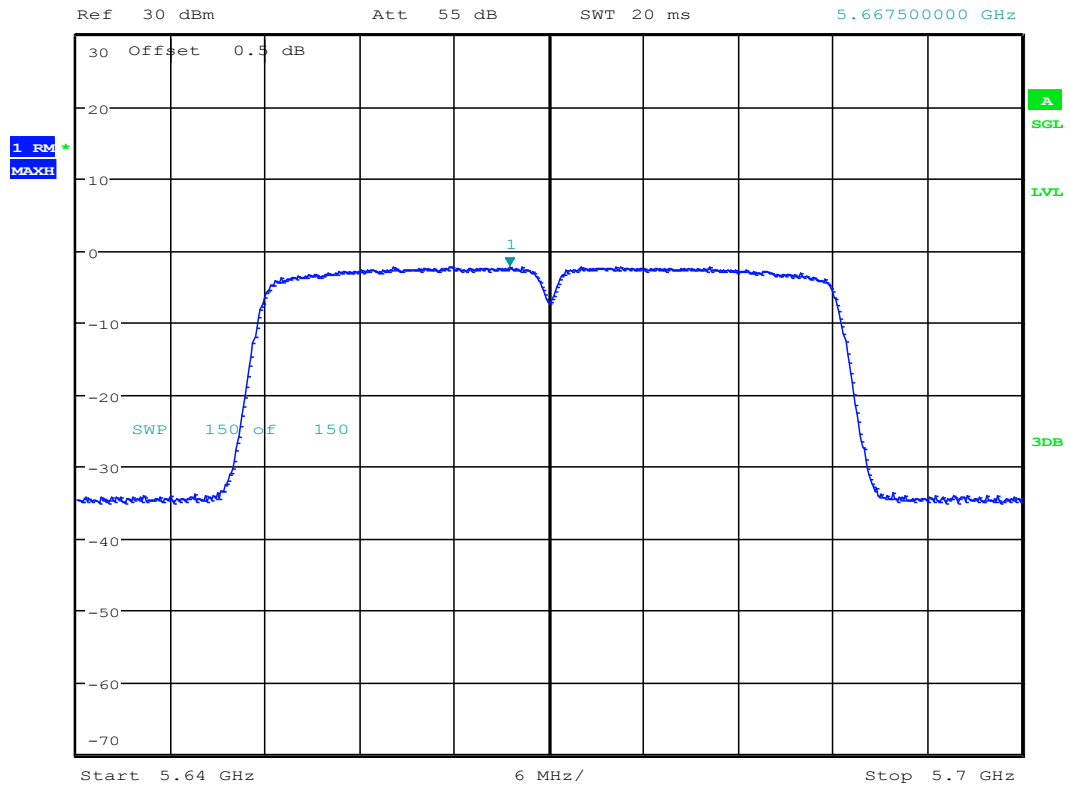


11.22 11N40_134 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
-2.24 dBm
5.667500000 GHz



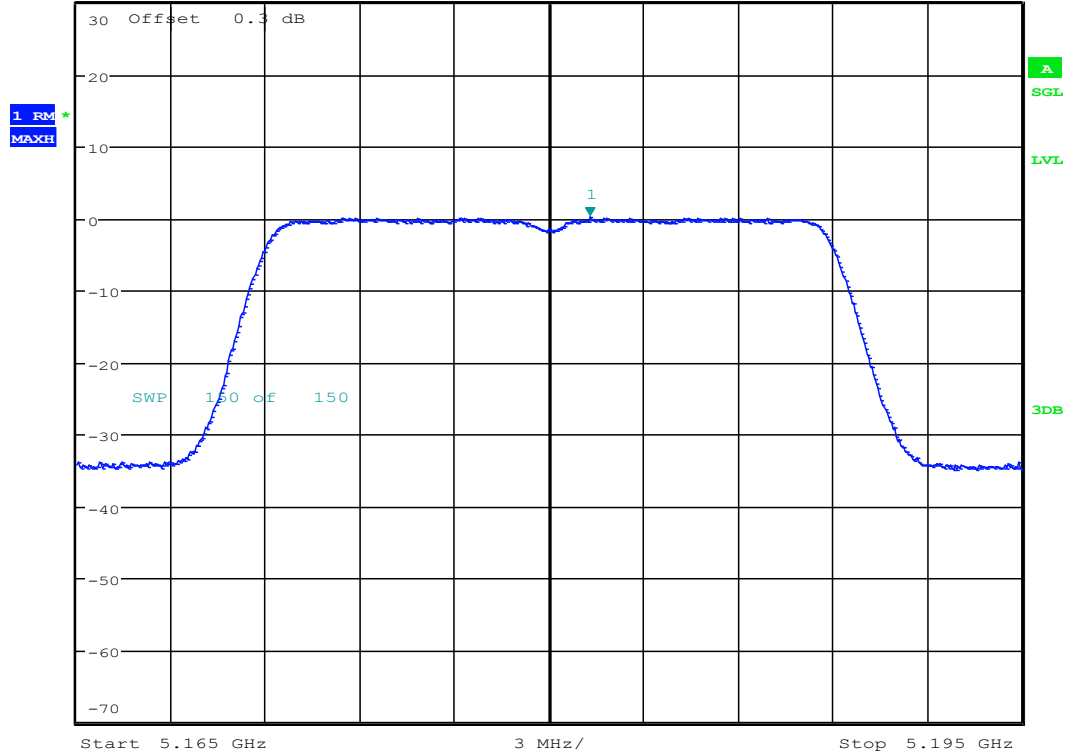
Date: 16.JUL.2018 14:52:12



11.25 11AC20_36 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz 0.21 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.181300000 GHz



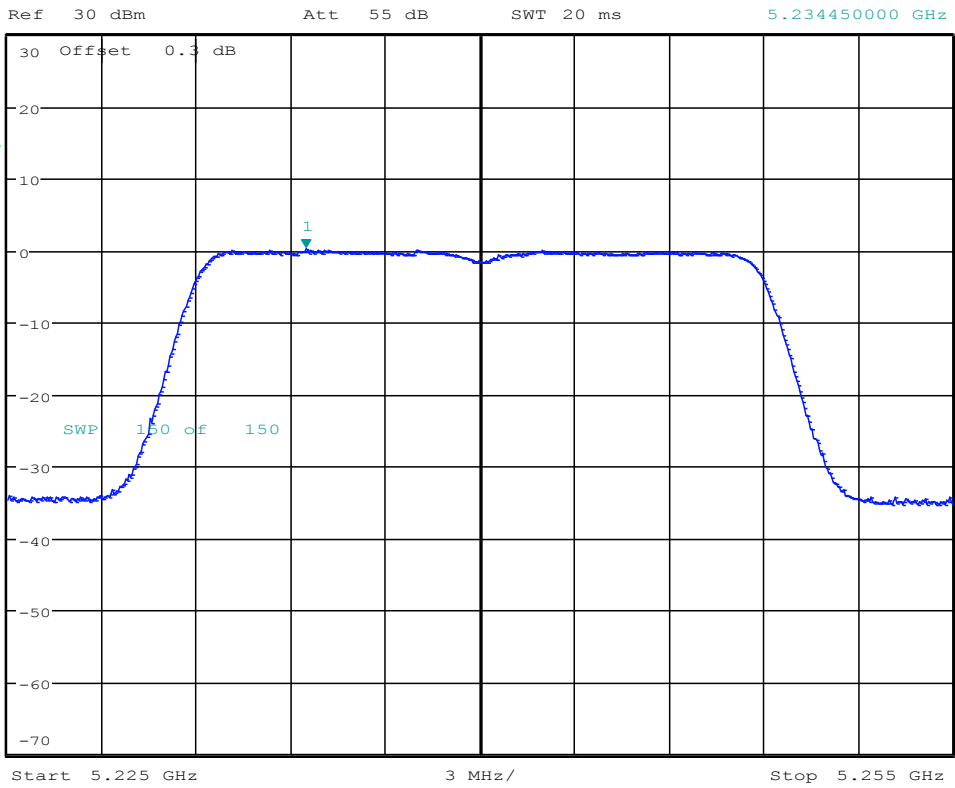
Date: 16.JUL.2018 15:10:17



11.26 11AC20_48 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.20 dBm
SWT 20 ms 5.234450000 GHz



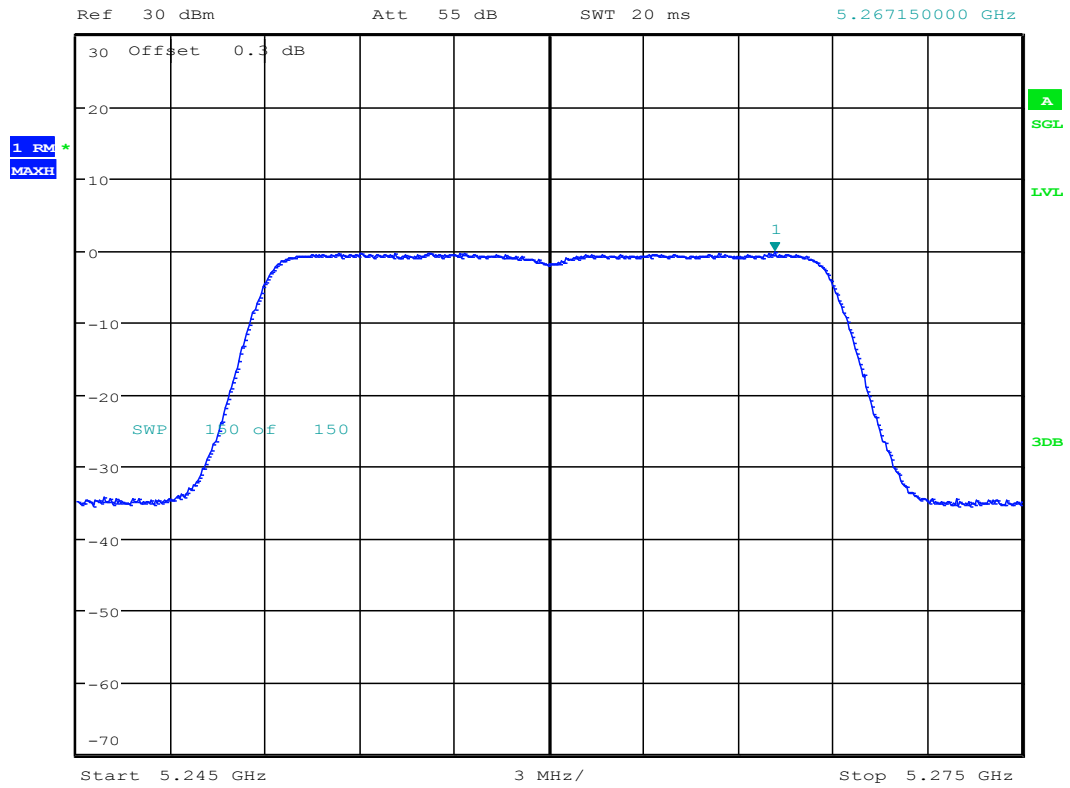
Date: 16.JUL.2018 15:13:56



11.27 11AC20_52 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -0.23 dBm
SWT 20 ms 5.267150000 GHz



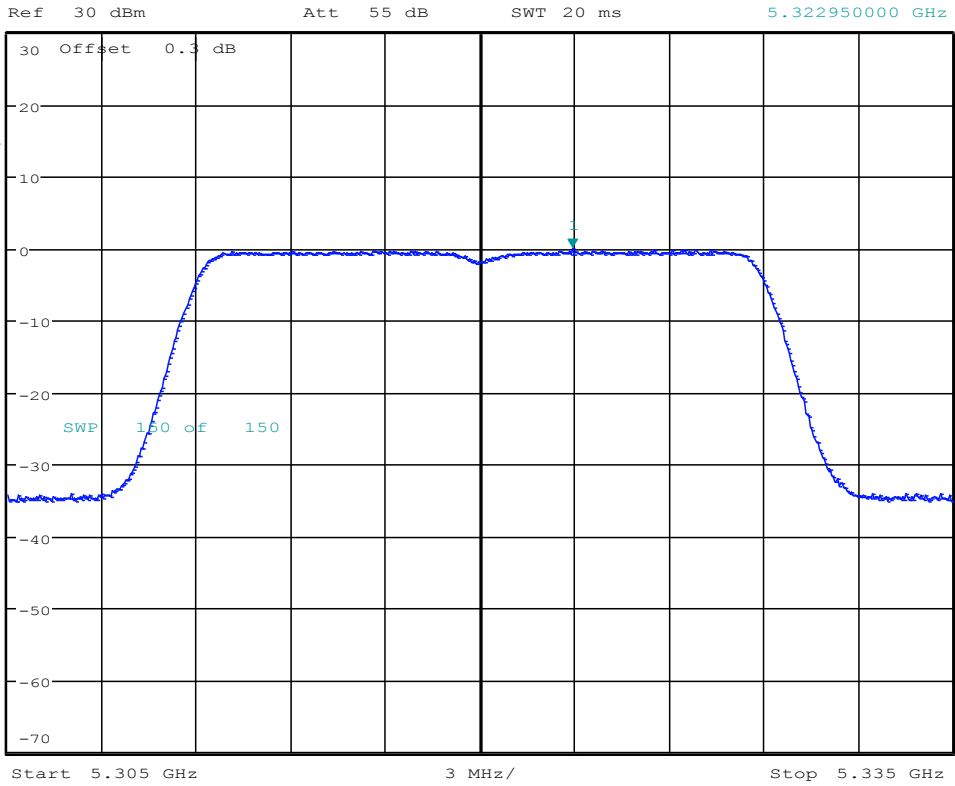
Date: 16.JUL.2018 15:18:20



11.28 11AC20_64 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -0.01 dBm
 SWT 20 ms 5.322950000 GHz



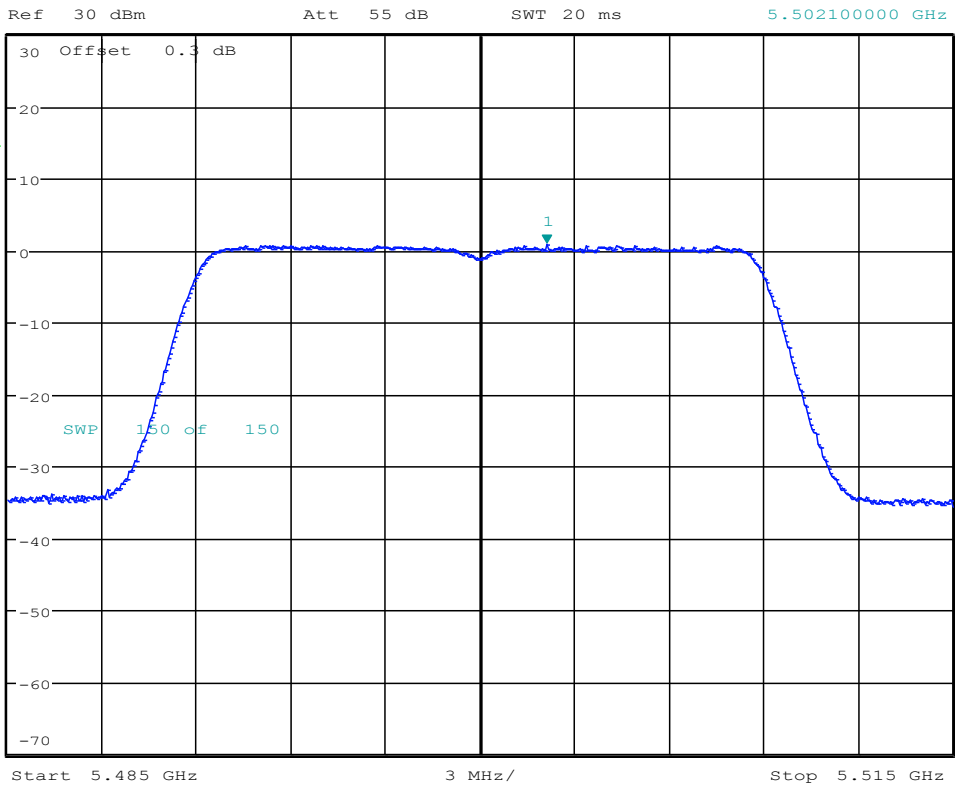
Date: 16.JUL.2018 15:24:40



11.29 11AC20_100 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz 0.83 dBm
SWT 20 ms 5.502100000 GHz



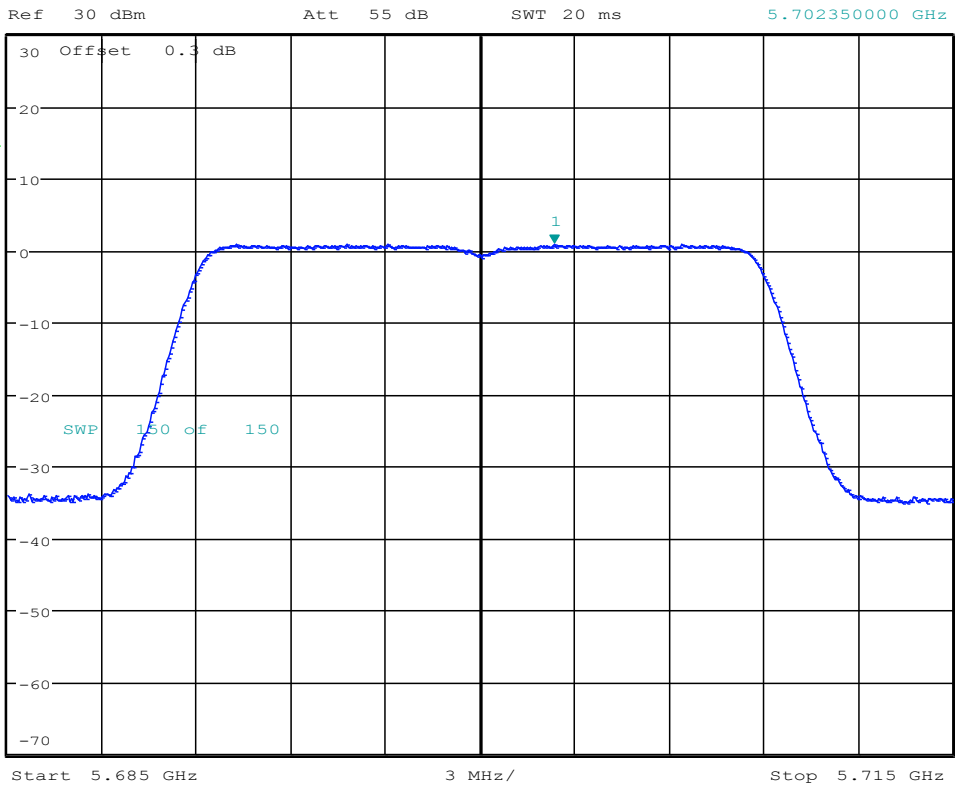
Date: 16.JUL.2018 15:28:11



11.30 11AC20_140 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms
Marker 1 [T1]
0.90 dBm
5.702350000 GHz



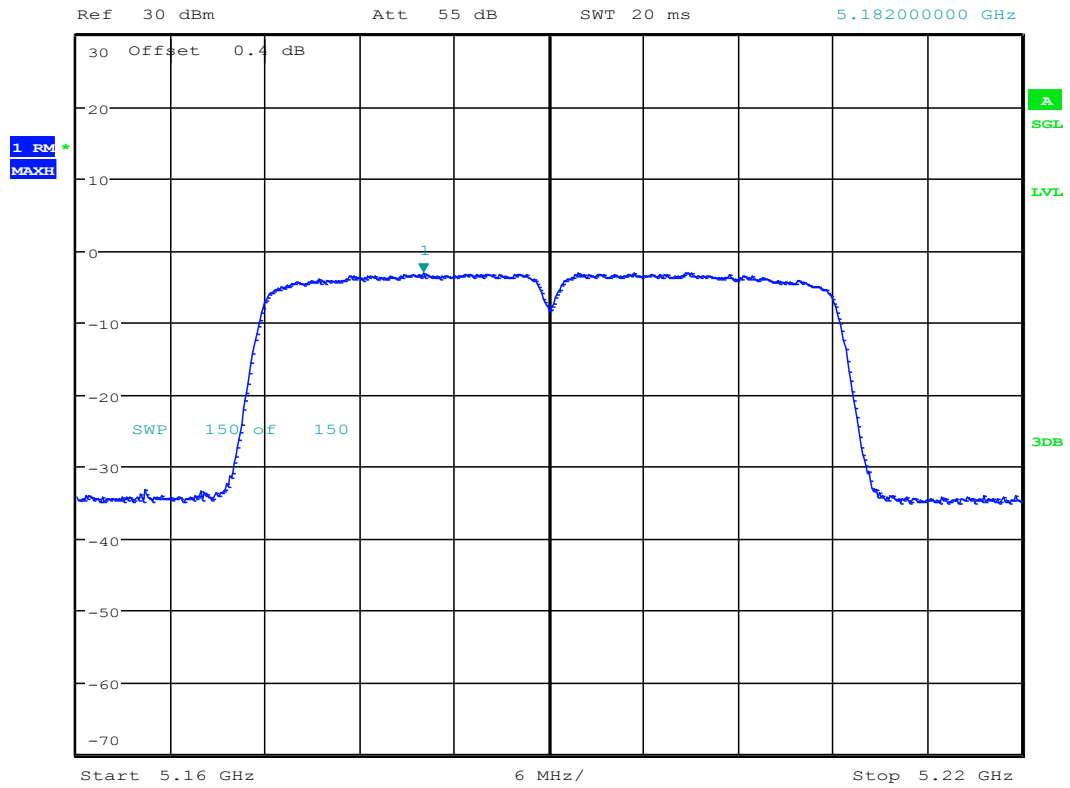
Date: 16.JUL.2018 15:32:10



11.33 11AC40_38 ANT 1



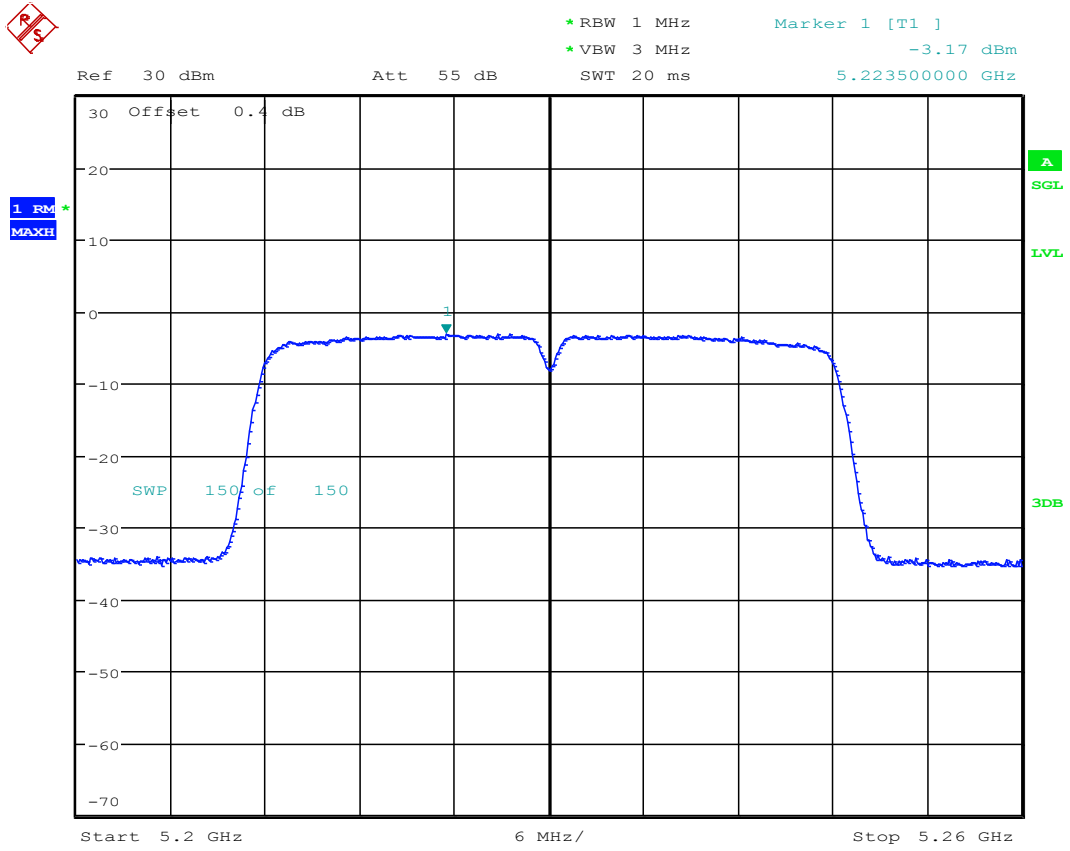
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.14 dBm
SWT 20 ms 5.182000000 GHz



Date: 16.JUL.2018 15:55:26



11.34 11AC40_46 ANT 1



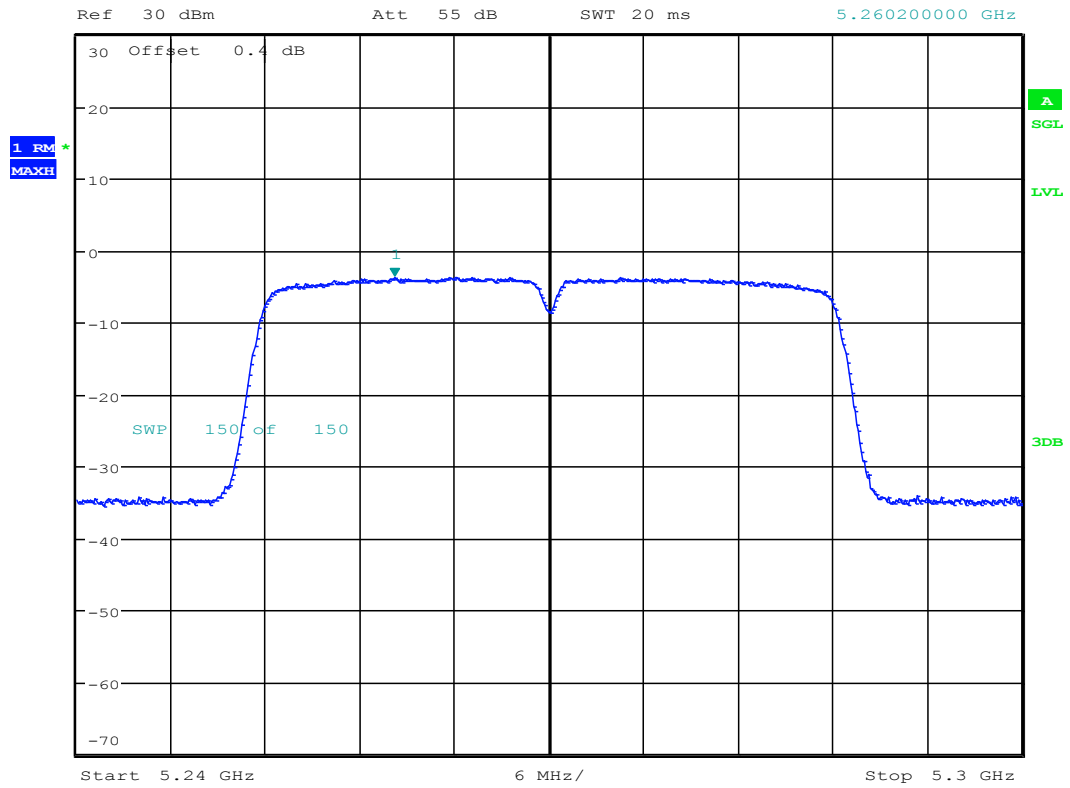
Date: 16.JUL.2018 16:00:56



11.35 11AC40_54 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -3.71 dBm
SWT 20 ms 5.260200000 GHz



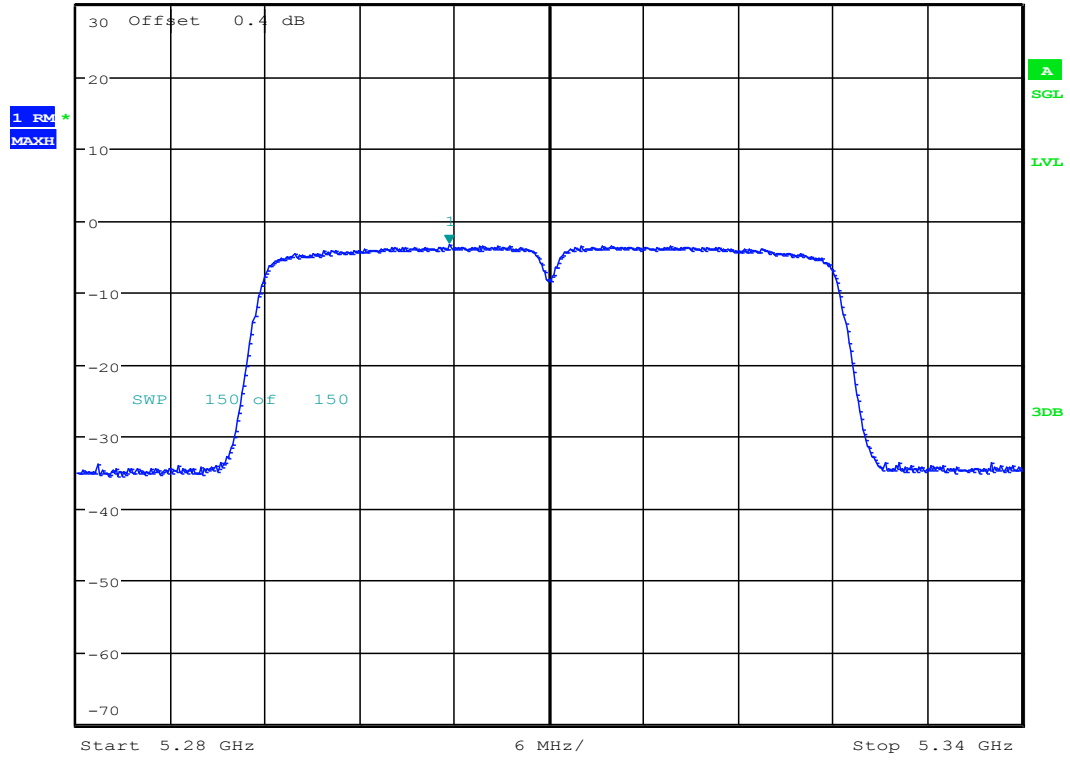
Date: 16.JUL.2018 16:06:46



11.36 11AC40_62 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -3.32 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.303700000 GHz



Date: 16.JUL.2018 16:10:19

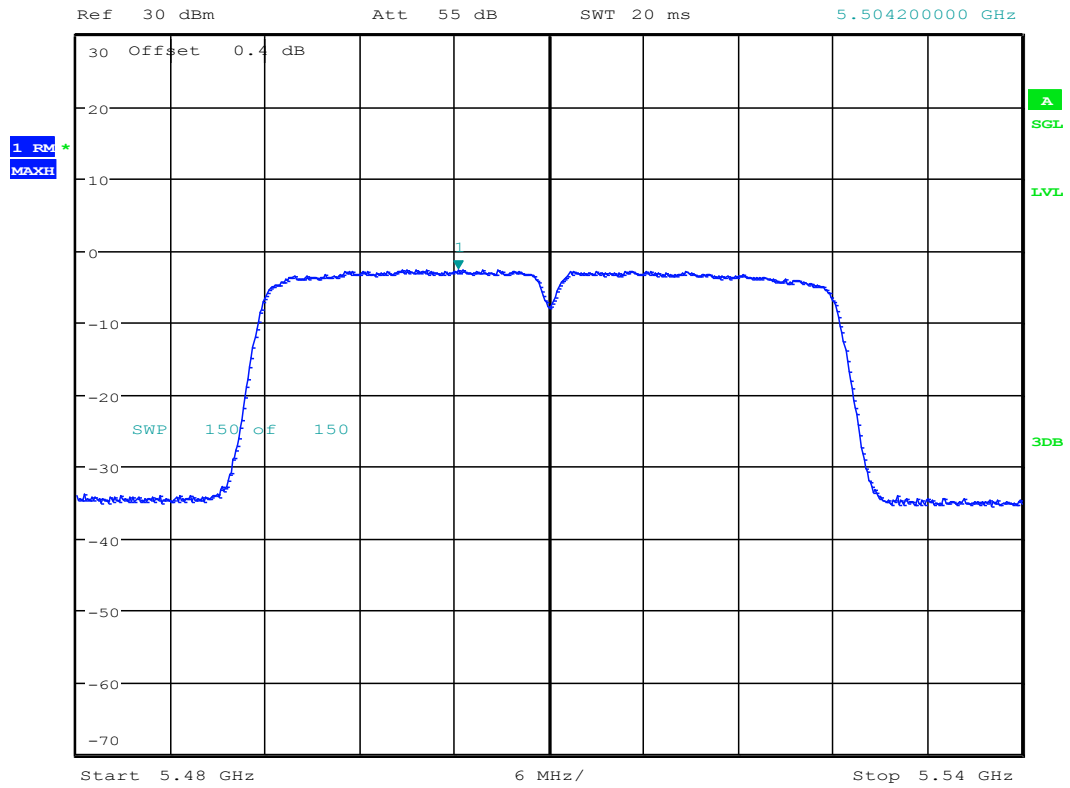


11.37 11AC40_102 ANT 1



*RBW 1 MHz
*VBW 3 MHz
SWT 20 ms

Marker 1 [T1]
-2.62 dBm
5.504200000 GHz



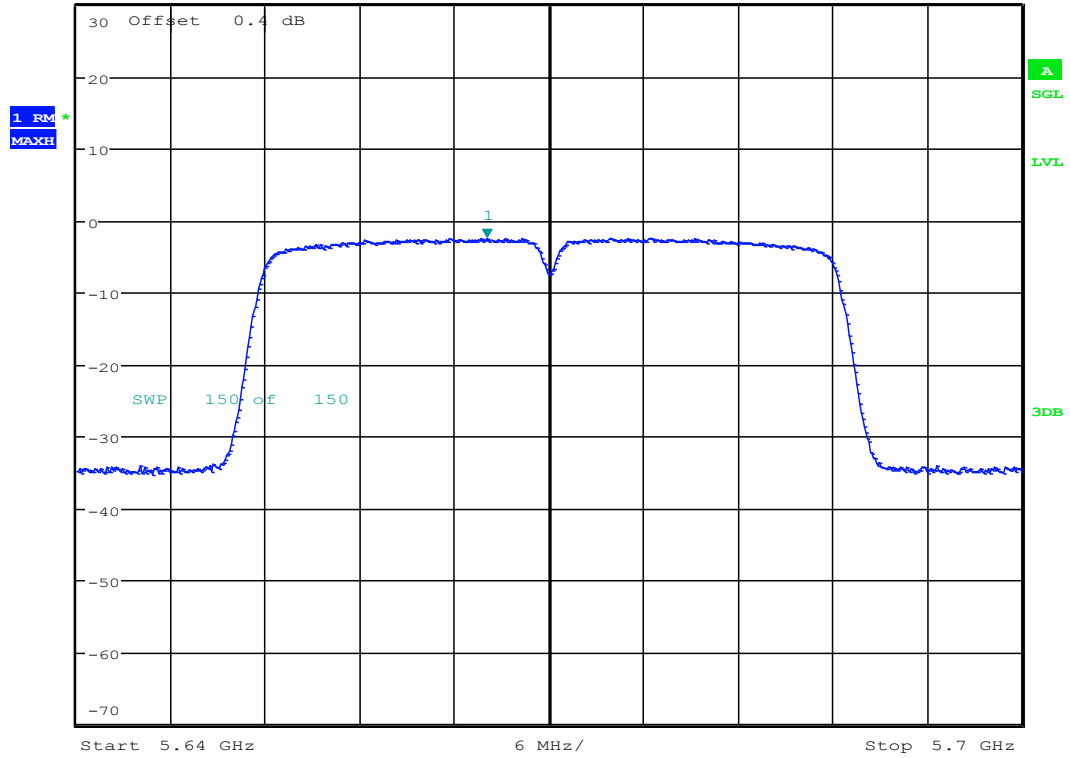
Date: 16.JUL.2018 16:14:45



11.38 11AC40_134 ANT 1



*RBW 1 MHz Marker 1 [T1]
 *VBW 3 MHz -2.39 dBm
 Ref 30 dBm Att 55 dB SWT 20 ms 5.666100000 GHz



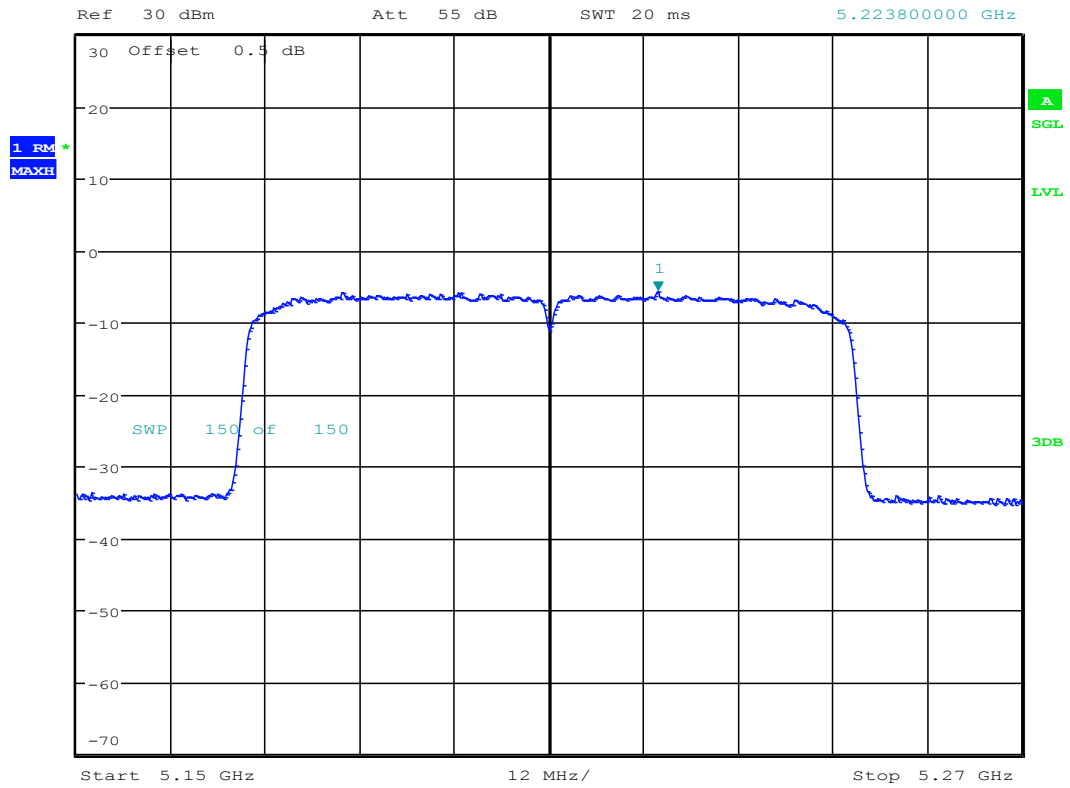
Date: 16.JUL.2018 16:18:17



11.41 11AC80_42 ANT 1



*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -5.68 dBm
SWT 20 ms 5.223800000 GHz



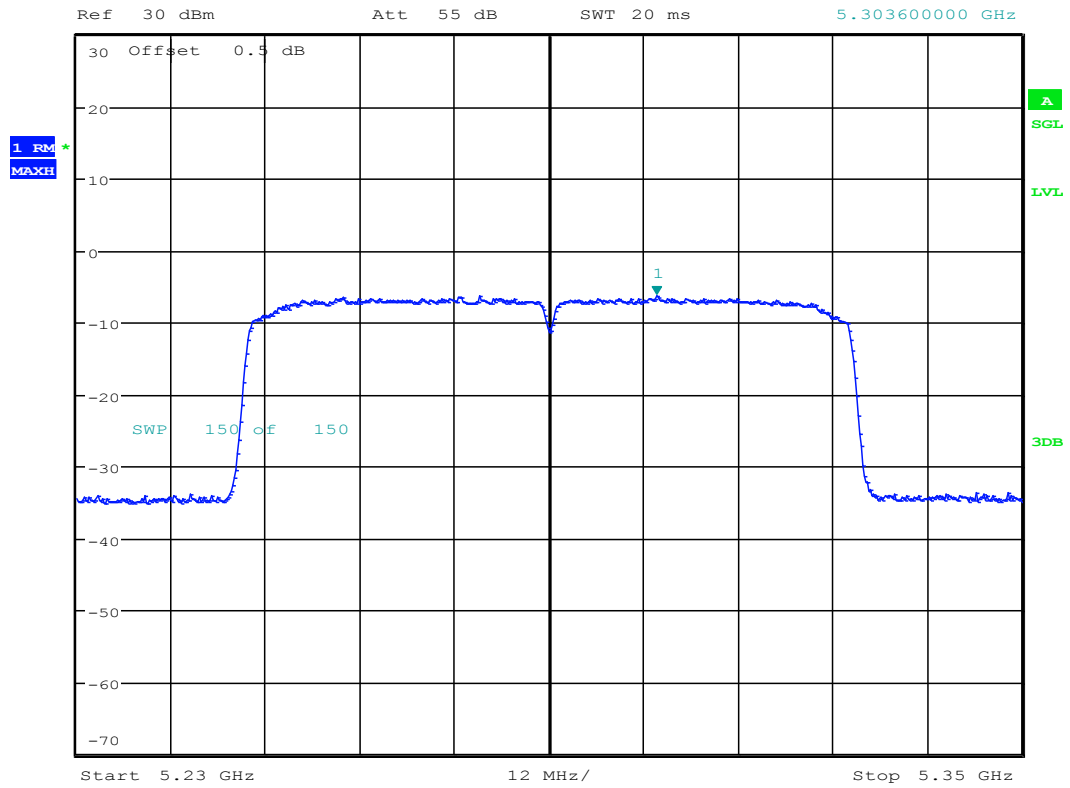
Date: 16.JUL.2018 16:36:59



11.42 11AC80_58 ANT 1



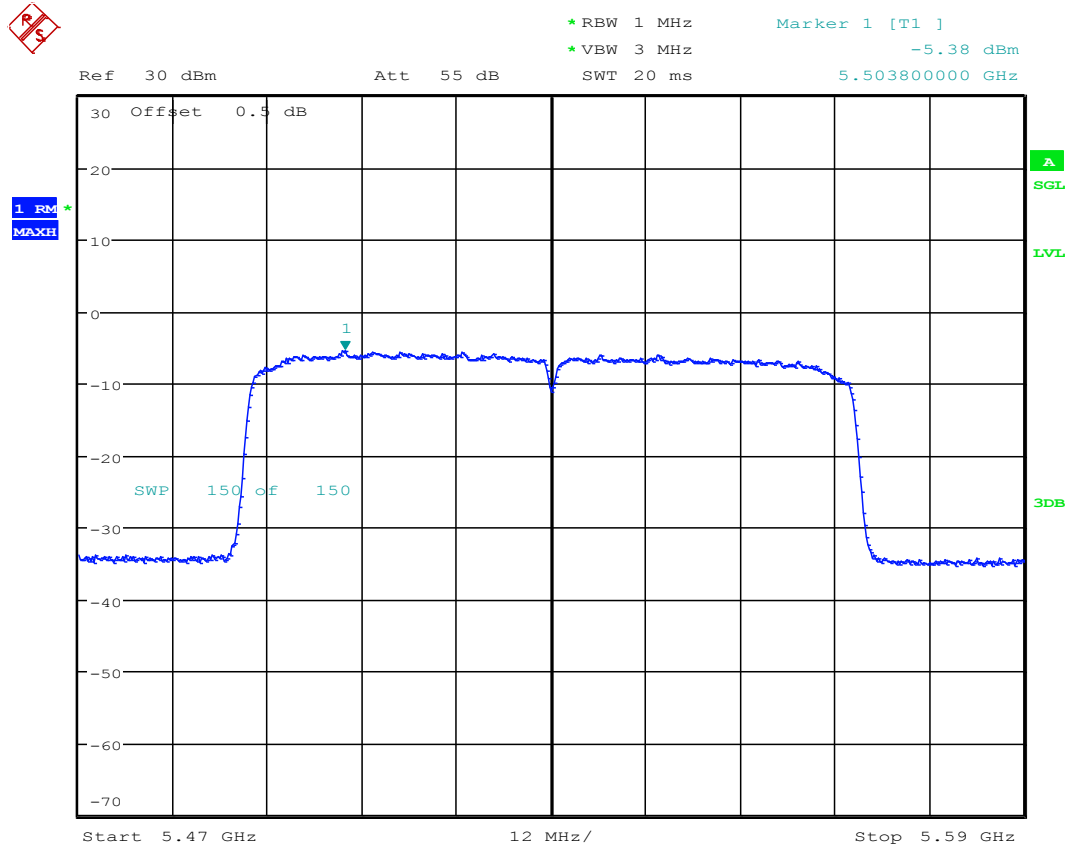
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -6.16 dBm
SWT 20 ms 5.303600000 GHz



Date: 16.JUL.2018 16:44:39



11.43 11AC80_106 ANT 1



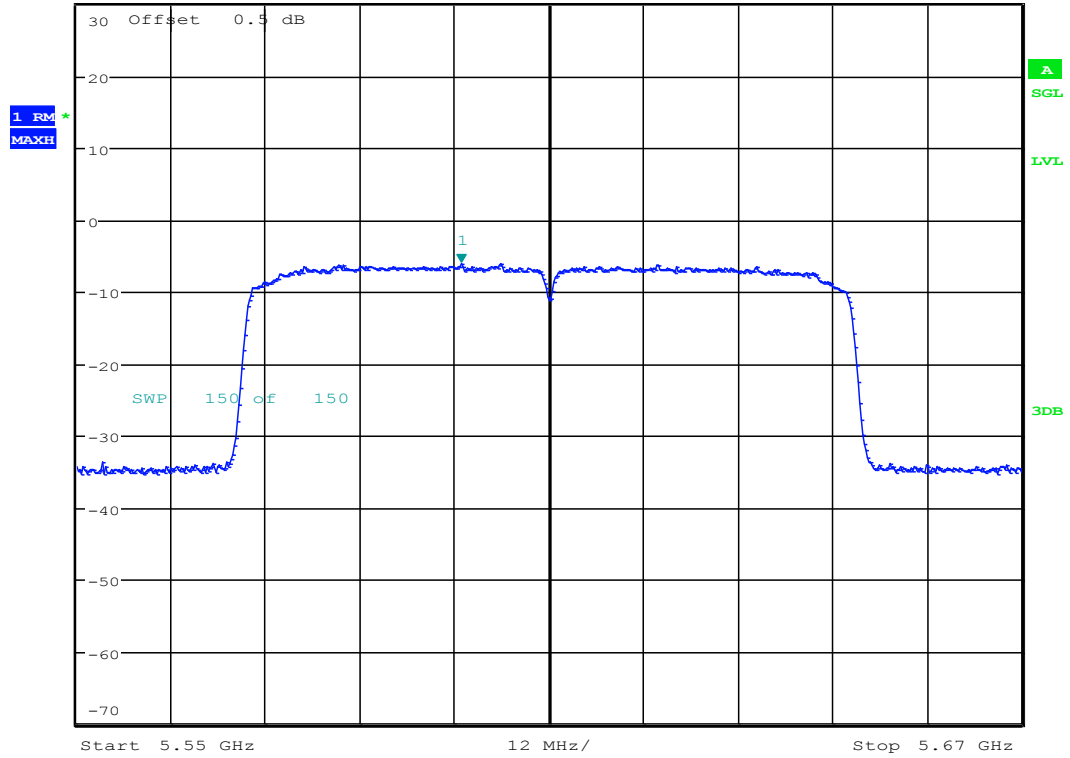
Date: 16.JUL.2018 16:49:24



11.44 11AC80_122 ANT 1



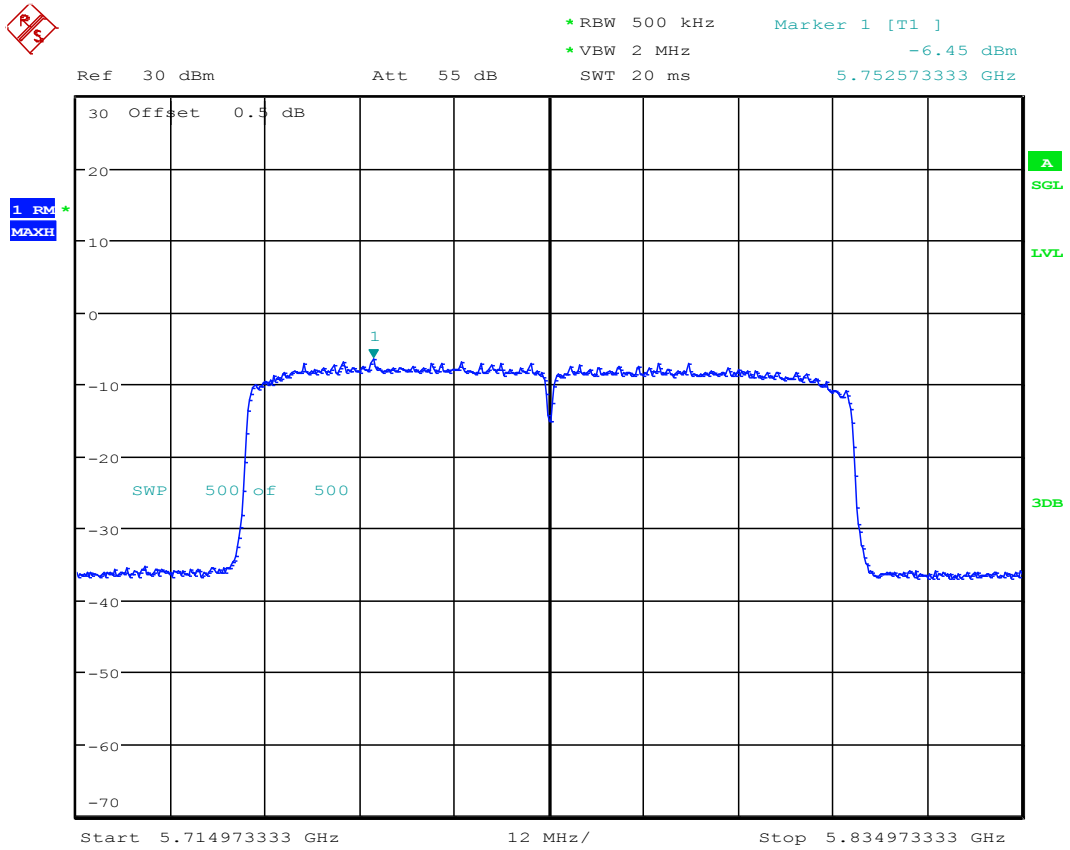
*RBW 1 MHz Marker 1 [T1]
*VBW 3 MHz -6.09 dBm
Ref 30 dBm Att 55 dB SWT 20 ms 5.598800000 GHz



Date: 16.JUL.2018 16:53:07



11.45 11AC80_155 ANT 1



Date: 16.JUL.2018 17:02:52



Appendix F: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5180
V nom(V)	5180.0000
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 Frequency (MHz)
	5180
-5	5180.0041
5	5180.0015
15	5180.0062
25	5180.0000
35	5180.0069
45	5180.0012
50	5180.0065
Max. Deviation Frequency	0.0069
Max. Frequency Error (ppm)	1.33



Frequency Error vs. Voltage:

Test Conditions	Measured Frequency (MHz)
	5825
V nom(V)	5825.0000
V max(V)	5825.0054
V min(V)	5825.0021
Max. Deviation Frequency	0.0054
Max. Frequency Error (ppm)	0.88

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency (MHz)
	5825
-5	5825.0041
5	5825.0035
15	5825.0025
25	5825.0000
35	5825.0029
45	5825.0056
50	5825.0095
Max. Deviation Frequency	0.0095
Max. Frequency Error (ppm)	1.63

END