



# Appendix A U-NII: Emission Bandwidth



1 (EBW)Result Table

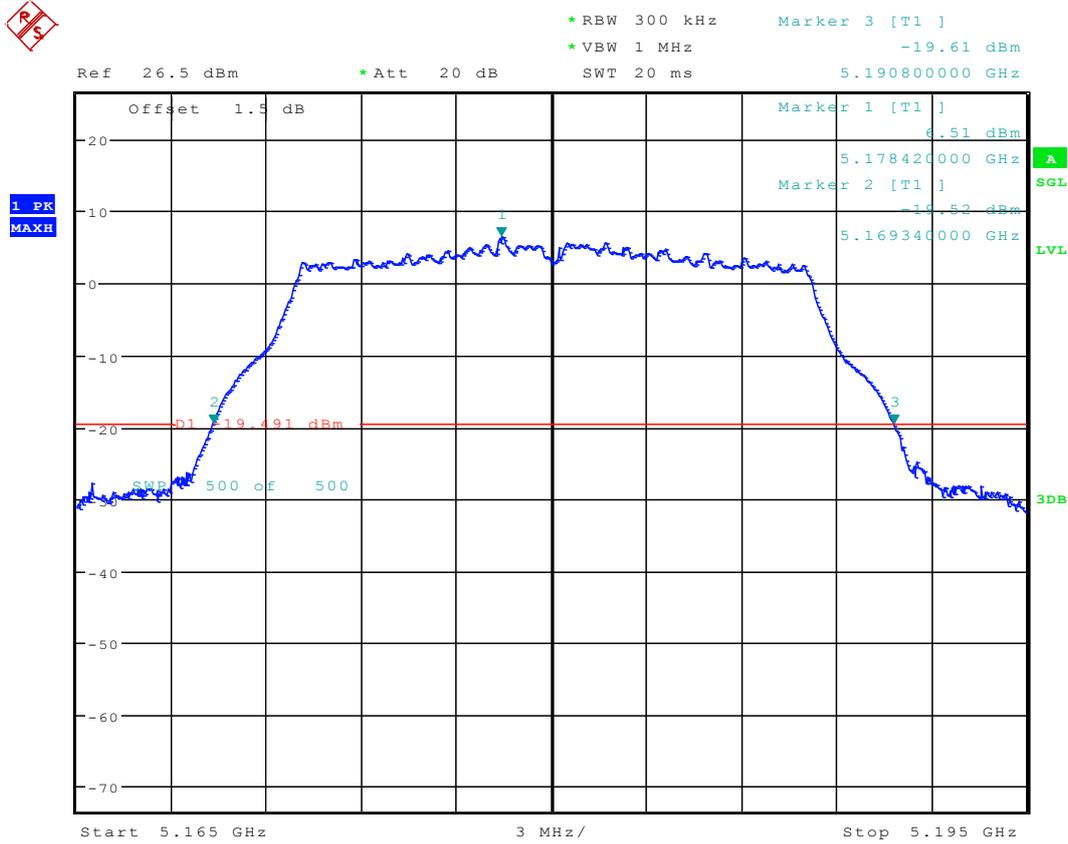
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	26dB Emission Bandwidth [MHz]	Verdict
11A	36	5180	Ant 1	21.46	pass
	48	5240	Ant 1	21.50	pass
	52	5260	Ant 1	21.54	pass
	64	5320	Ant 1	21.48	pass
	100	5500	Ant 1	21.52	pass
	140	5700	Ant 1	21.52	pass
11N20	36	5180	Ant 1	21.98	pass
	48	5240	Ant 1	21.96	pass
	52	5260	Ant 1	21.92	pass
	64	5320	Ant 1	21.84	pass
	100	5500	Ant 1	21.96	pass
	140	5700	Ant 1	22.06	pass
11N40	38	5190	Ant 1	40.06	pass
	46	5230	Ant 1	40.14	pass
	54	5270	Ant 1	40.18	pass
	62	5310	Ant 1	40.38	pass
	102	5510	Ant 1	40.30	pass
	134	5670	Ant 1	40.22	pass
11AC20	36	5180	Ant 1	21.96	pass
	48	5240	Ant 1	21.74	pass
	52	5260	Ant 1	21.88	pass
	64	5320	Ant 1	22.02	pass
	100	5500	Ant 1	21.94	pass
	140	5700	Ant 1	21.88	pass
11AC40	38	5190	Ant 1	40.34	pass
	46	5230	Ant 1	40.18	pass
	54	5270	Ant 1	40.12	pass
	62	5310	Ant 1	40.24	pass
	102	5510	Ant 1	40.30	pass
	134	5670	Ant 1	40.34	pass
11AC80	42	5210	Ant 1	82.03	pass
	58	5290	Ant 1	82.08	pass
	106	5530	Ant 1	81.97	pass



Test Mode	Test Channel	Frequency [MHz]	Ant	6dB Emission Bandwidth [MHz]	Verdict
11A	149	5745	Ant 1	16.36	pass
	165	5825	Ant 1	16.36	pass
11N20	149	5745	Ant 1	17.58	pass
	165	5825	Ant 1	17.58	pass
11N40	151	5755	Ant 1	36.30	pass
	159	5795	Ant 1	36.10	pass
11AC20	149	5745	Ant 1	17.58	pass
	165	5825	Ant 1	17.58	pass
11AC40	151	5755	Ant 1	36.32	pass
	159	5795	Ant 1	36.10	pass
11AC80	155	5775	Ant 1	75.52	pass

## 2 Test Plot for 26dBEmission Bandwidth

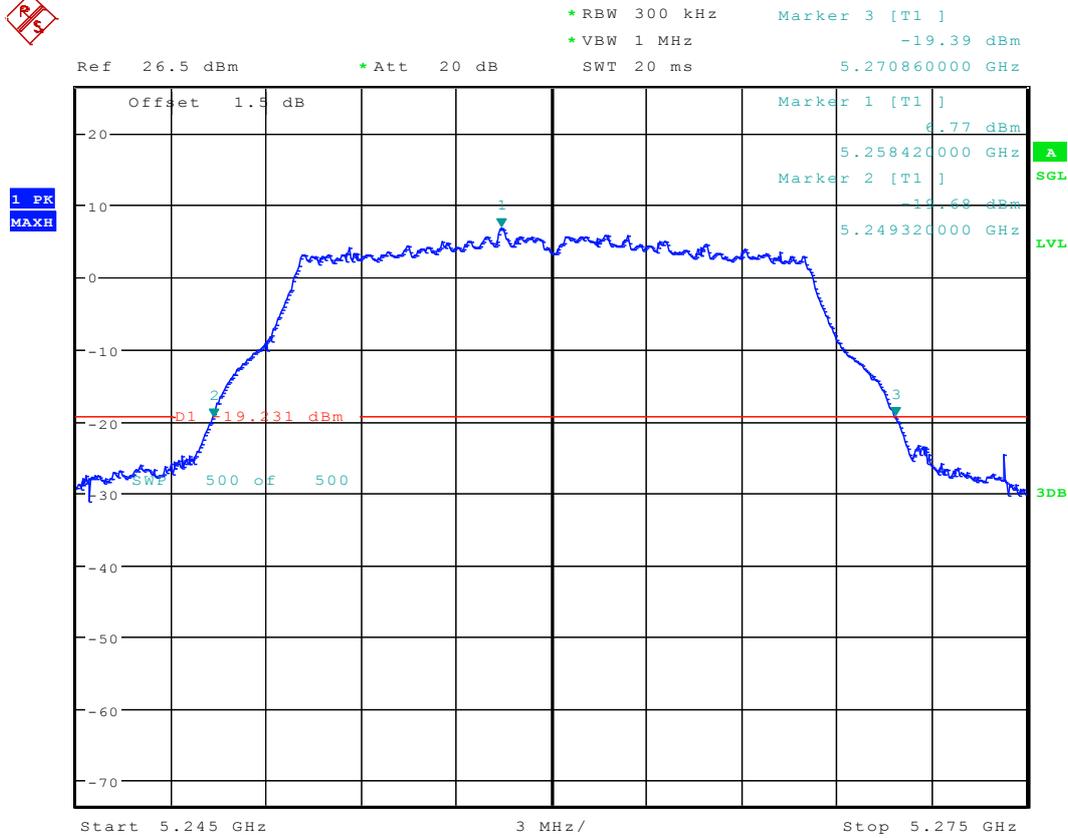
### 2.1 11A\_36 Ant 1



Date: 15.AUG.2016 07:42:09

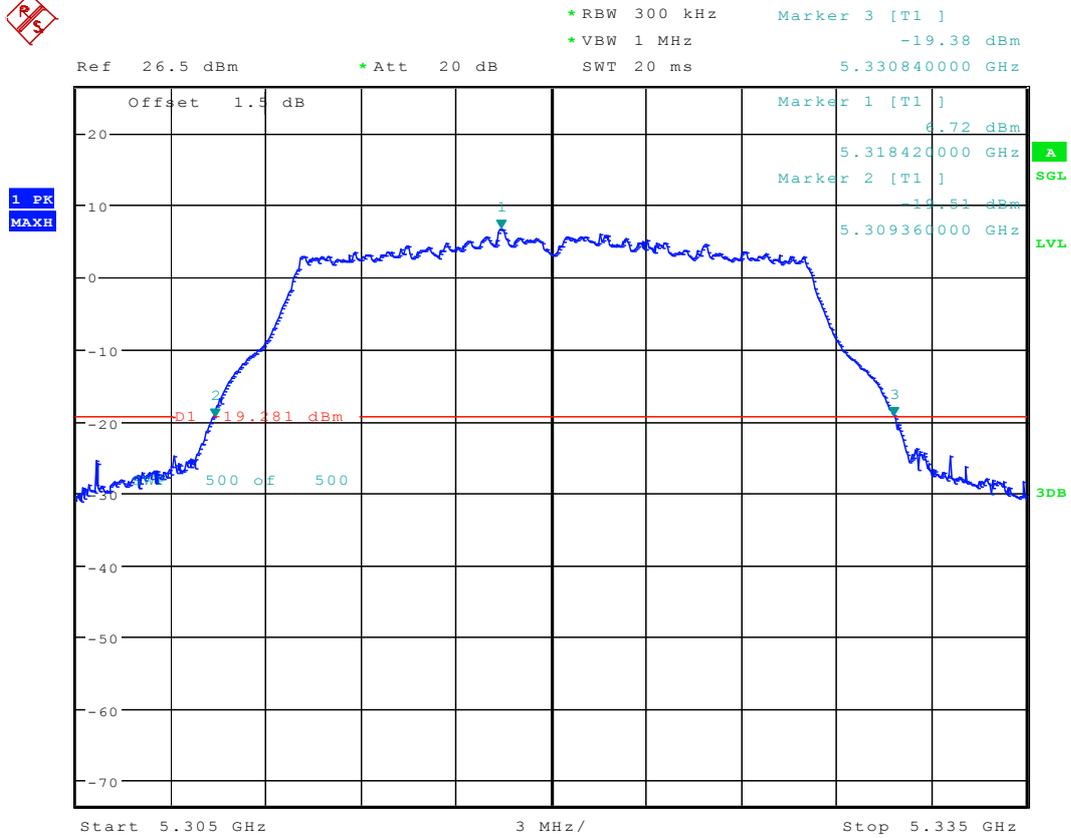


### 2.3 11A\_52 Ant 1



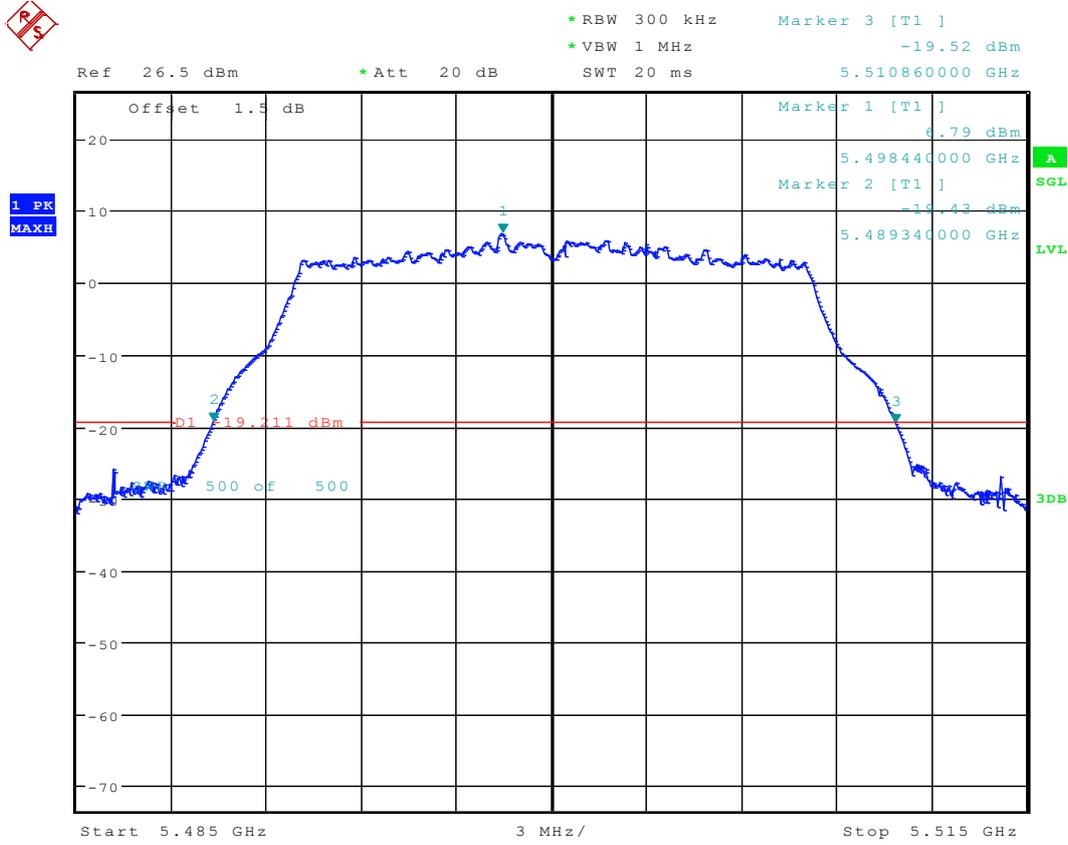
Date: 15.AUG.2016 07:49:31

## 2.4 11A\_64 Ant 1



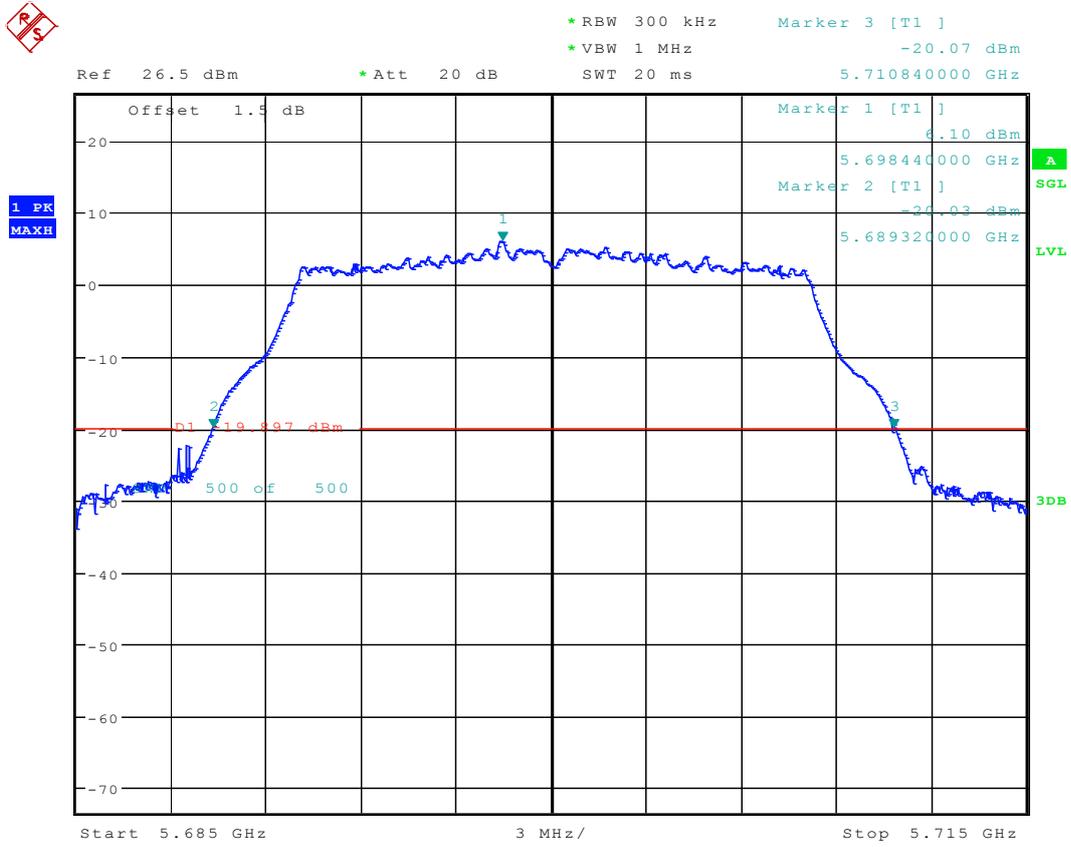
Date: 15.AUG.2016 08:20:59

### 2.5 11A\_100 Ant 1



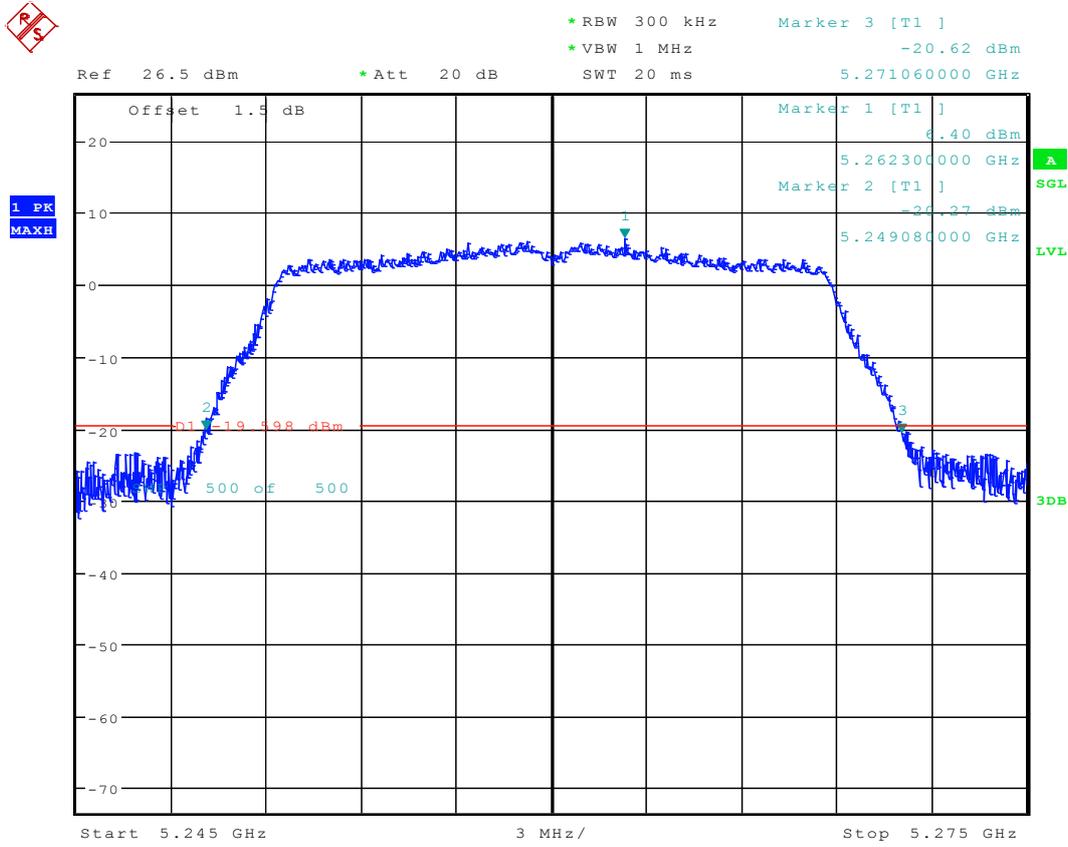
Date: 15.AUG.2016 08:28:00

## 2.6 11A\_140 Ant 1



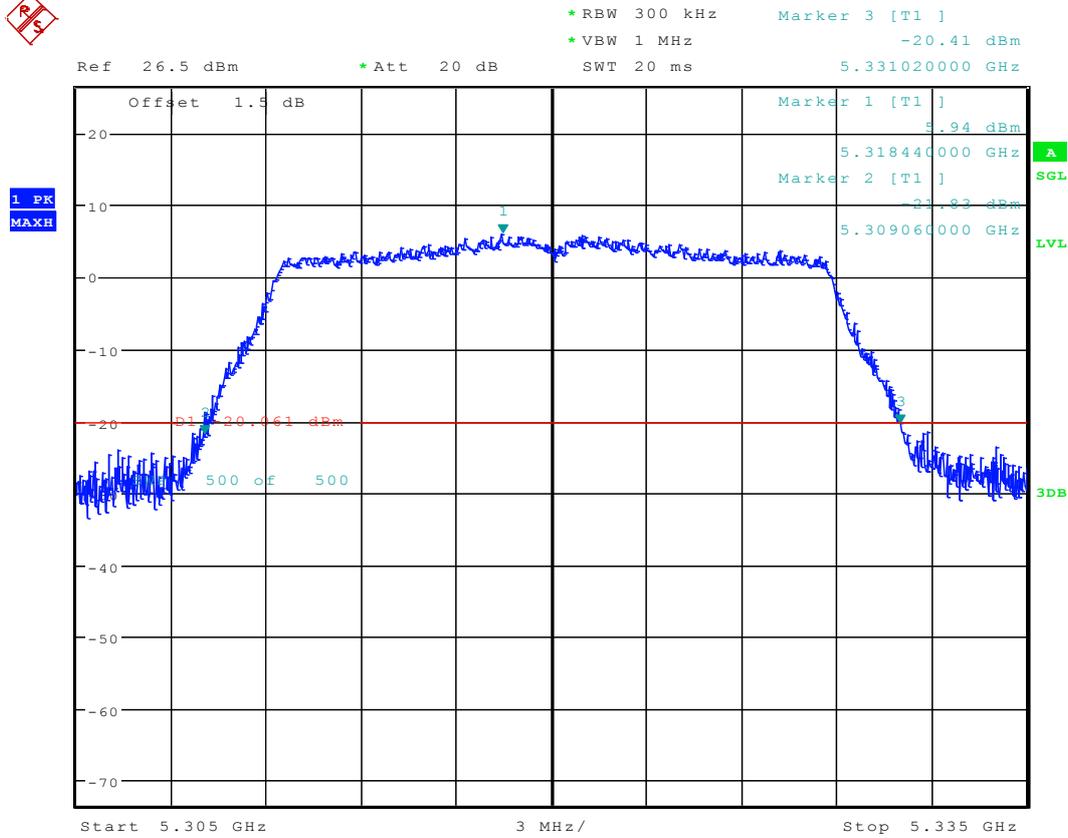
Date: 15.AUG.2016 08:31:05

### 2.7 11N20\_36 Ant 1



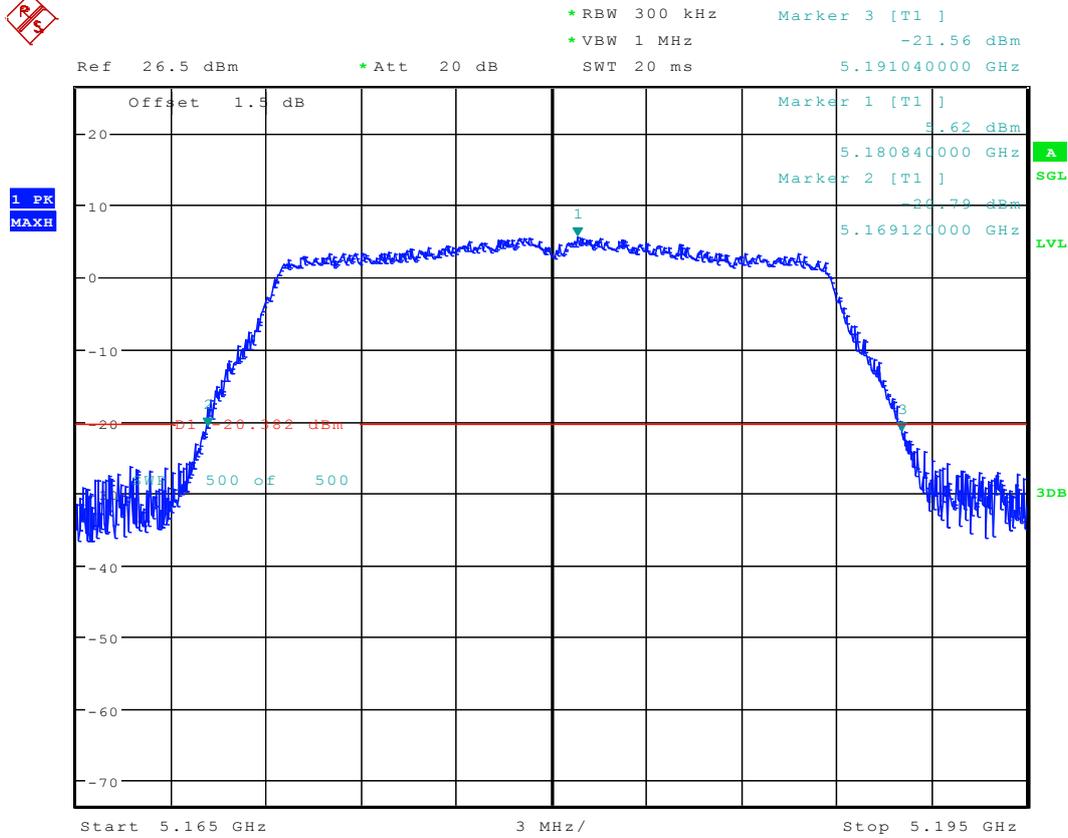
Date: 15.AUG.2016 10:58:12

### 2.8 11N20\_48 Ant 1



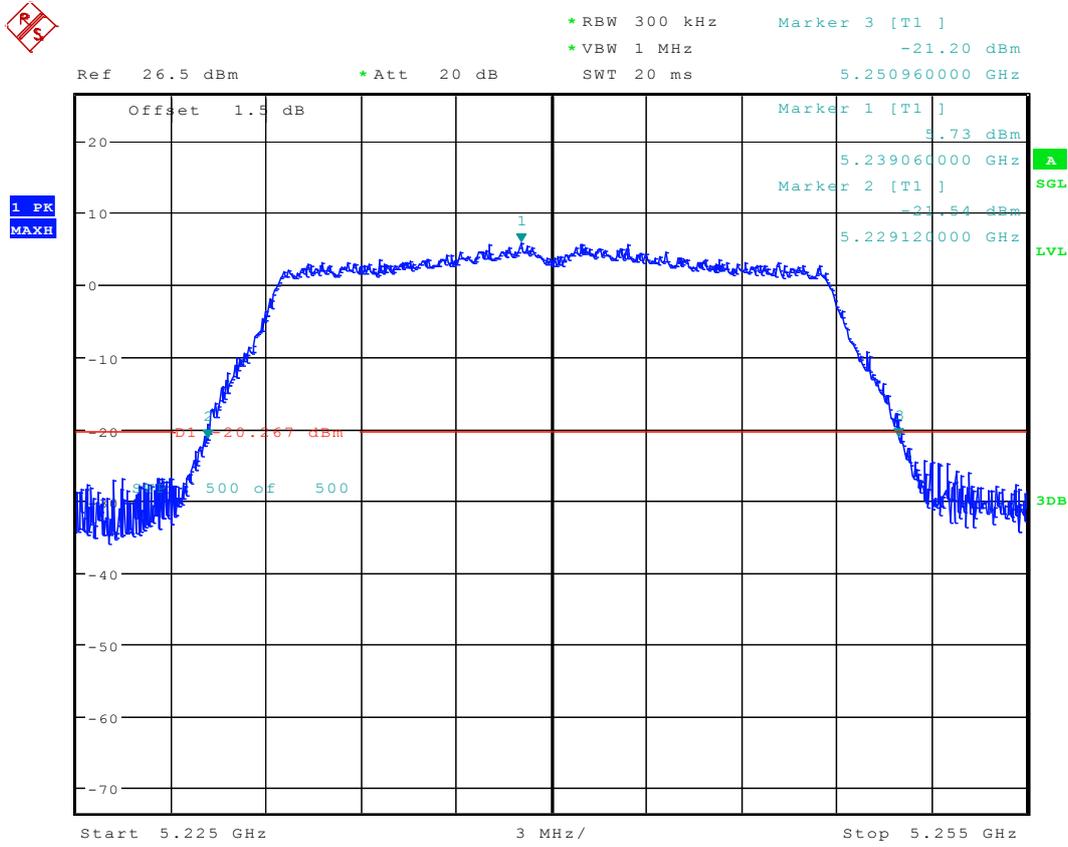
Date: 15.AUG.2016 11:04:05

### 2.9 11N20\_52 Ant 1



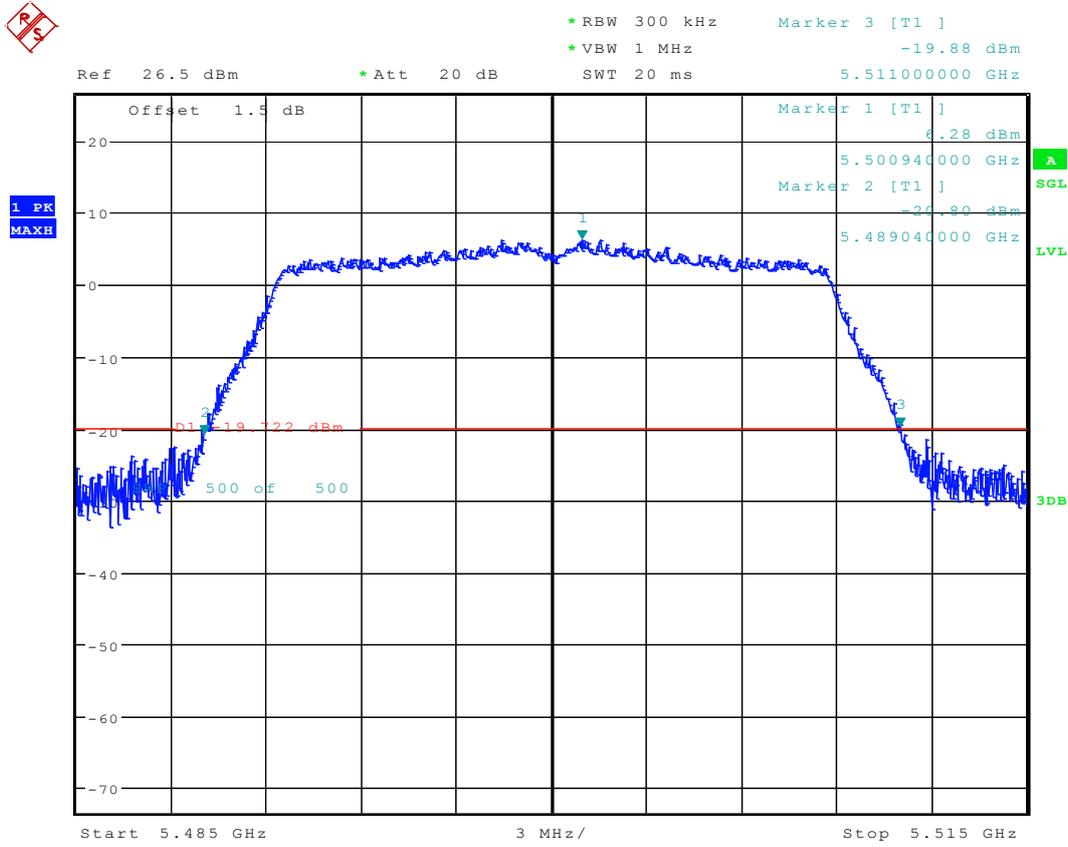
Date: 15.AUG.2016 10:39:49

## 2.10 11N20\_64 Ant 1



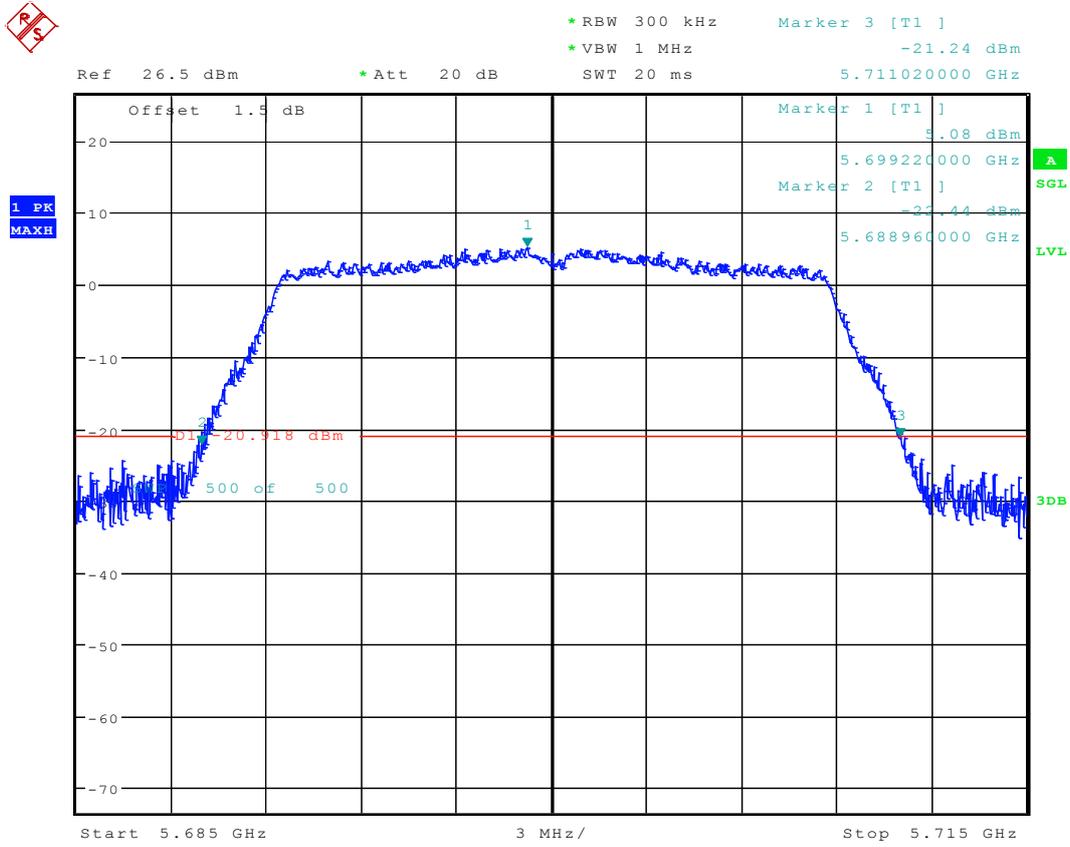
Date: 15.AUG.2016 10:45:29

### 2.11 11N20\_100 Ant 1



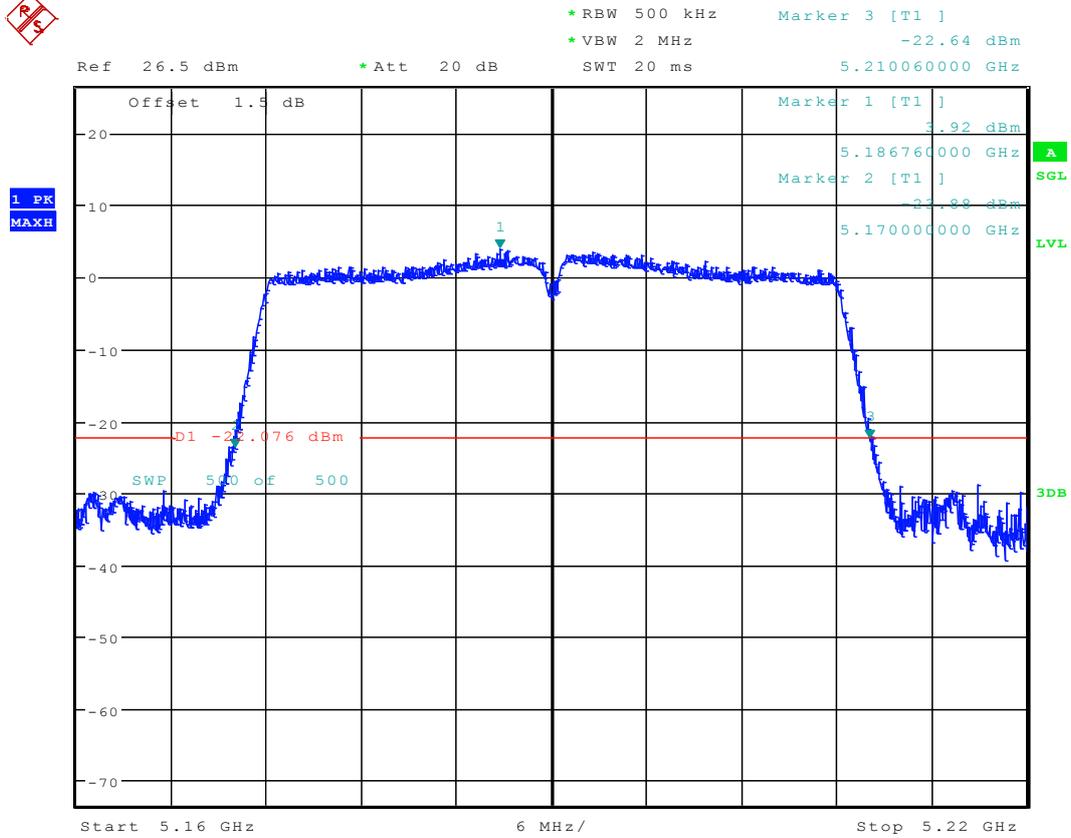
Date: 15.AUG.2016 11:11:58

## 2.12 11N20\_140 Ant 1



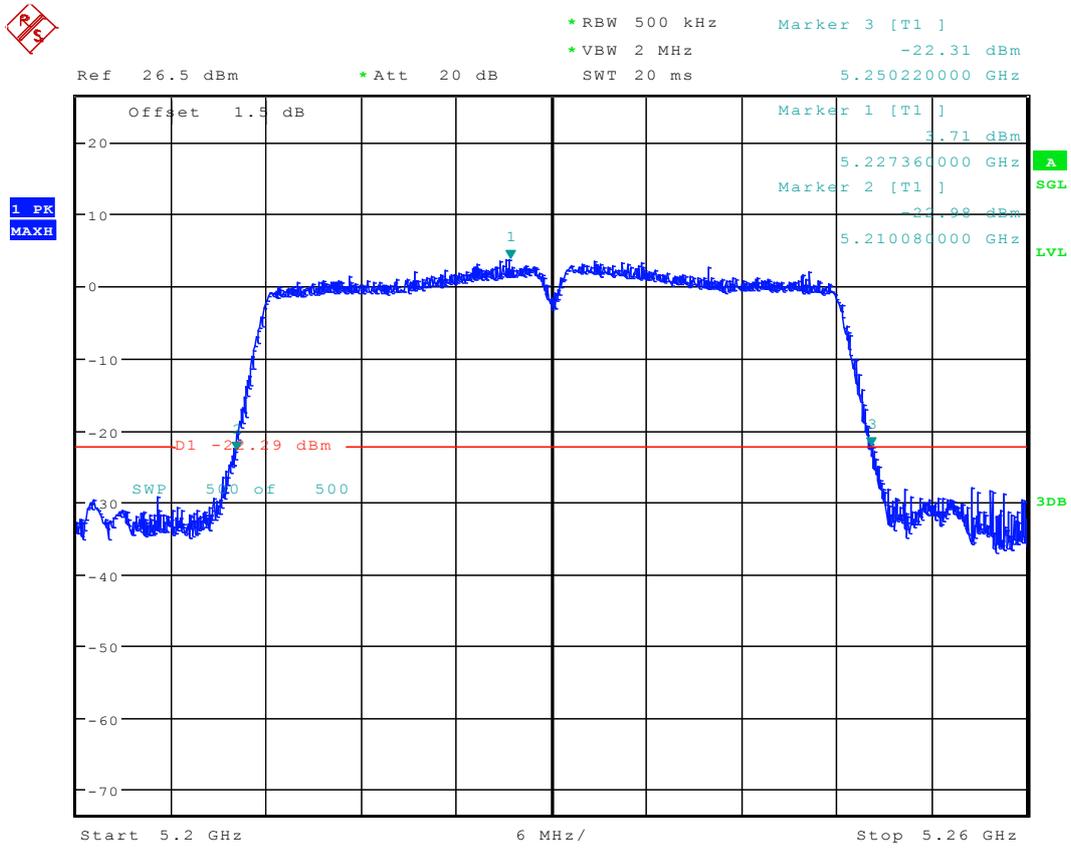
Date: 15.AUG.2016 11:17:41

### 2.13 11N40\_38 Ant 1



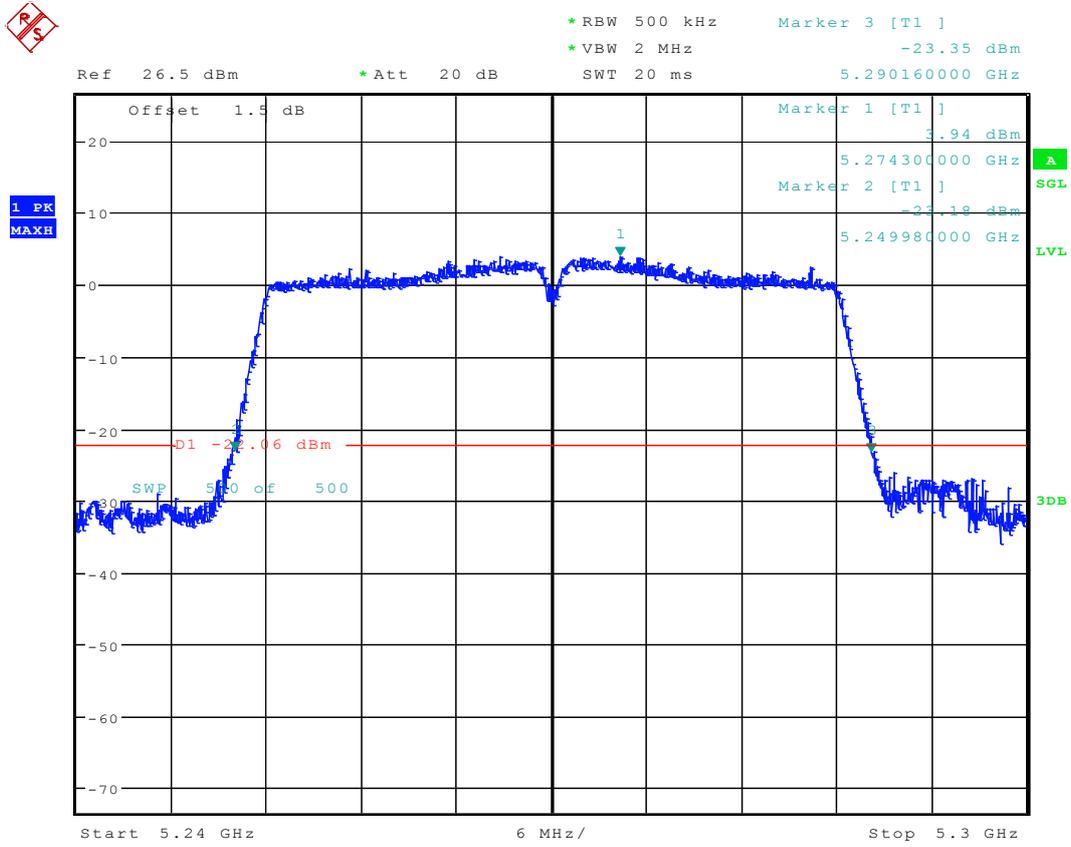
Date: 15.AUG.2016 11:36:56

## 2.14 11N40\_46 Ant 1



Date: 15.AUG.2016 11:40:23

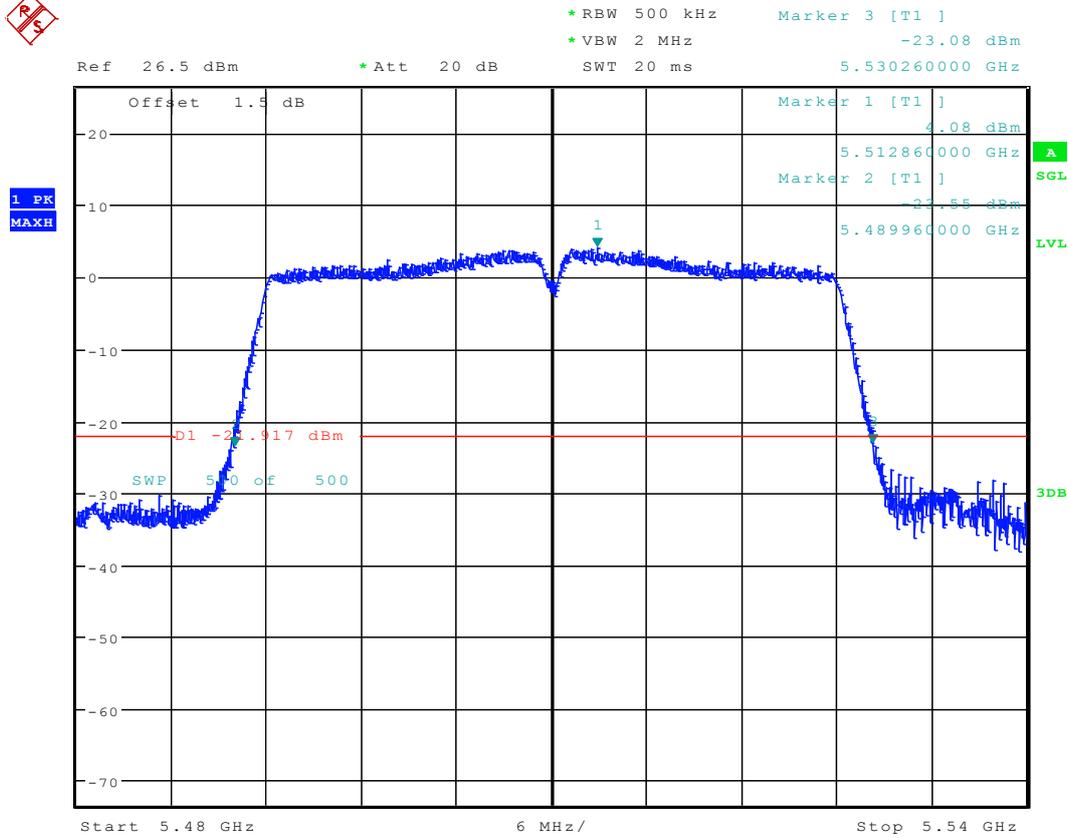
## 2.15 11N40\_54 Ant 1



Date: 15.AUG.2016 11:43:53

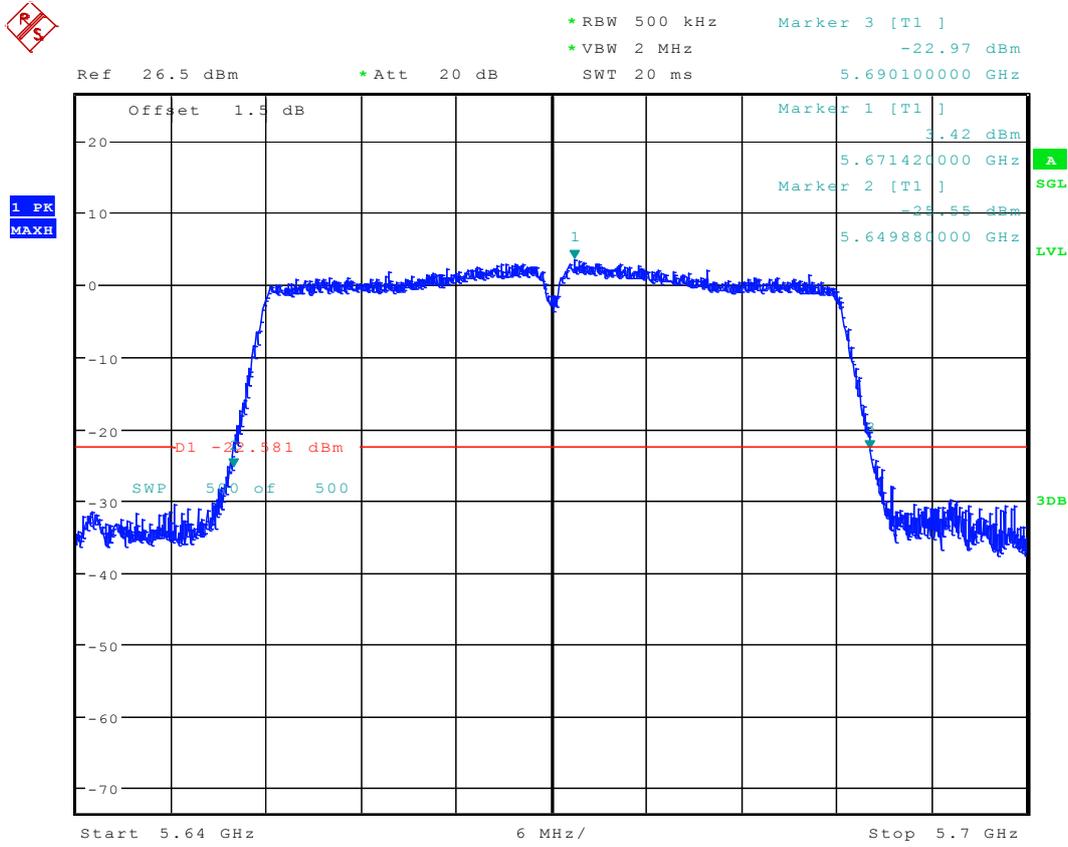


### 2.17 11N40\_102 Ant 1



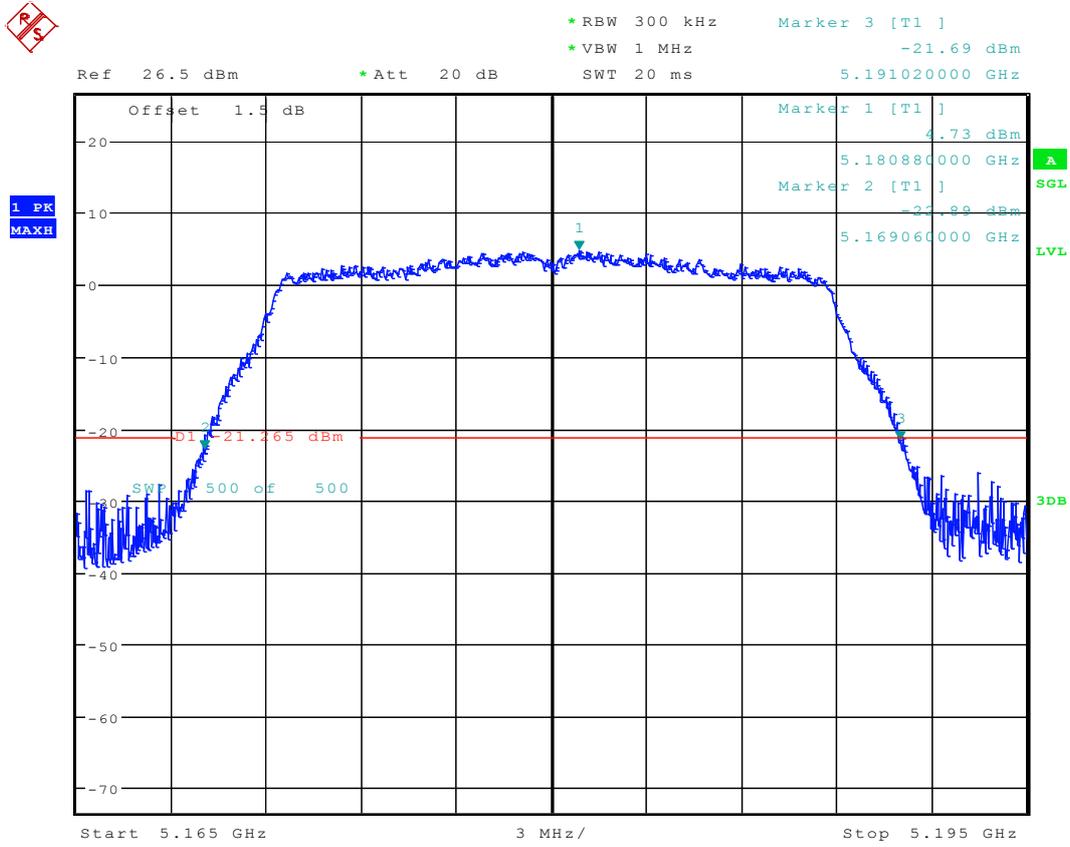
Date: 15.AUG.2016 11:51:01

### 2.18 11N40\_134 Ant 1



Date: 15.AUG.2016 11:53:33

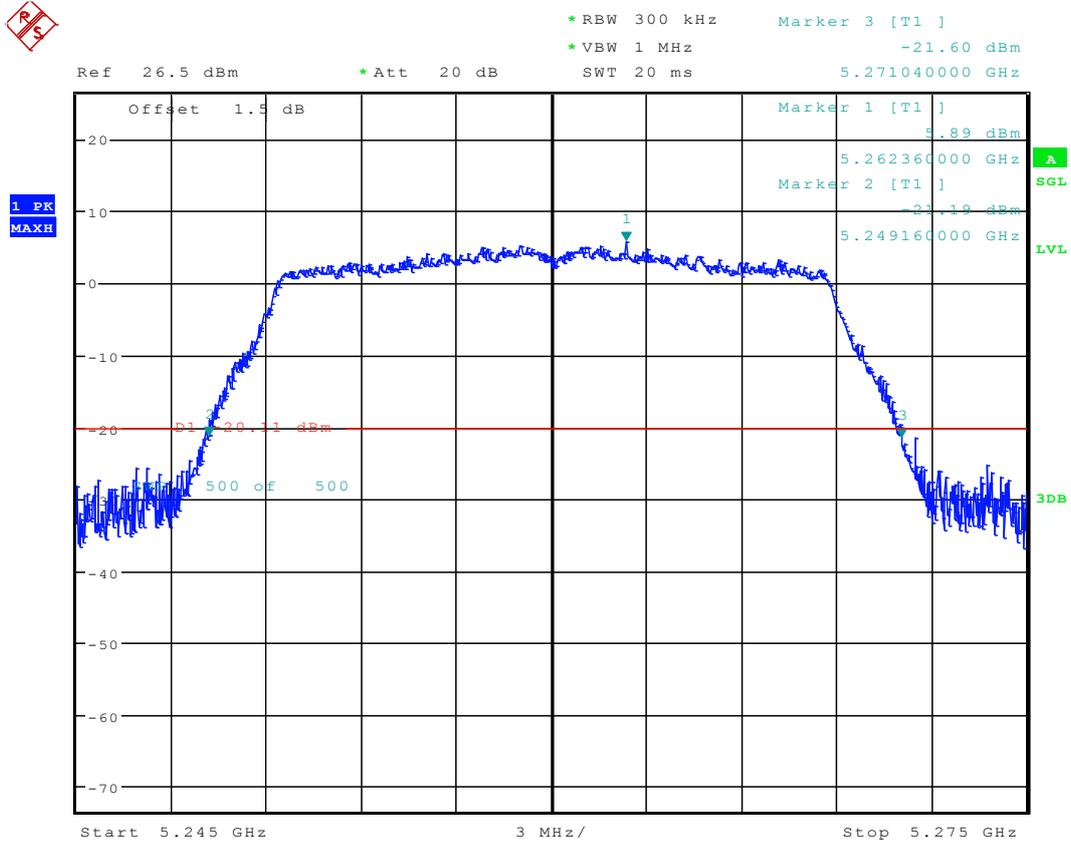
## 2.19 11AC20\_36 Ant 1



Date: 15.AUG.2016 12:19:11

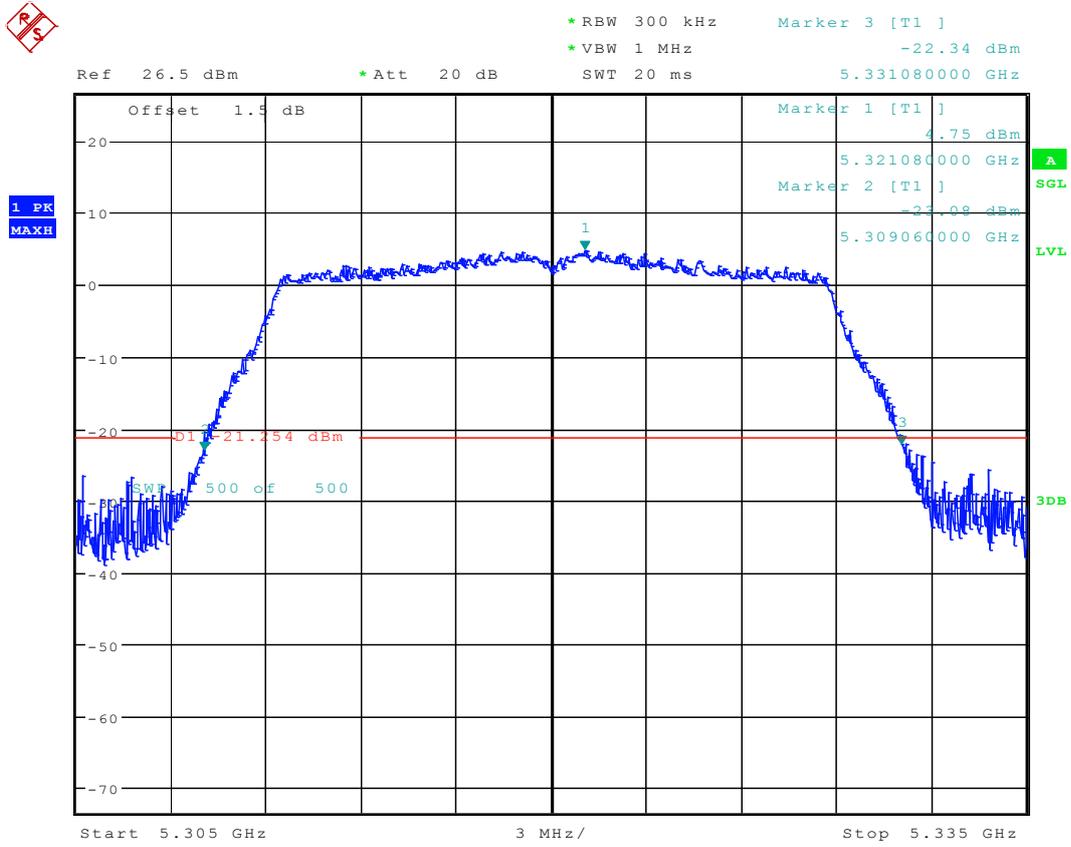


## 2.21 11AC20\_52 Ant 1



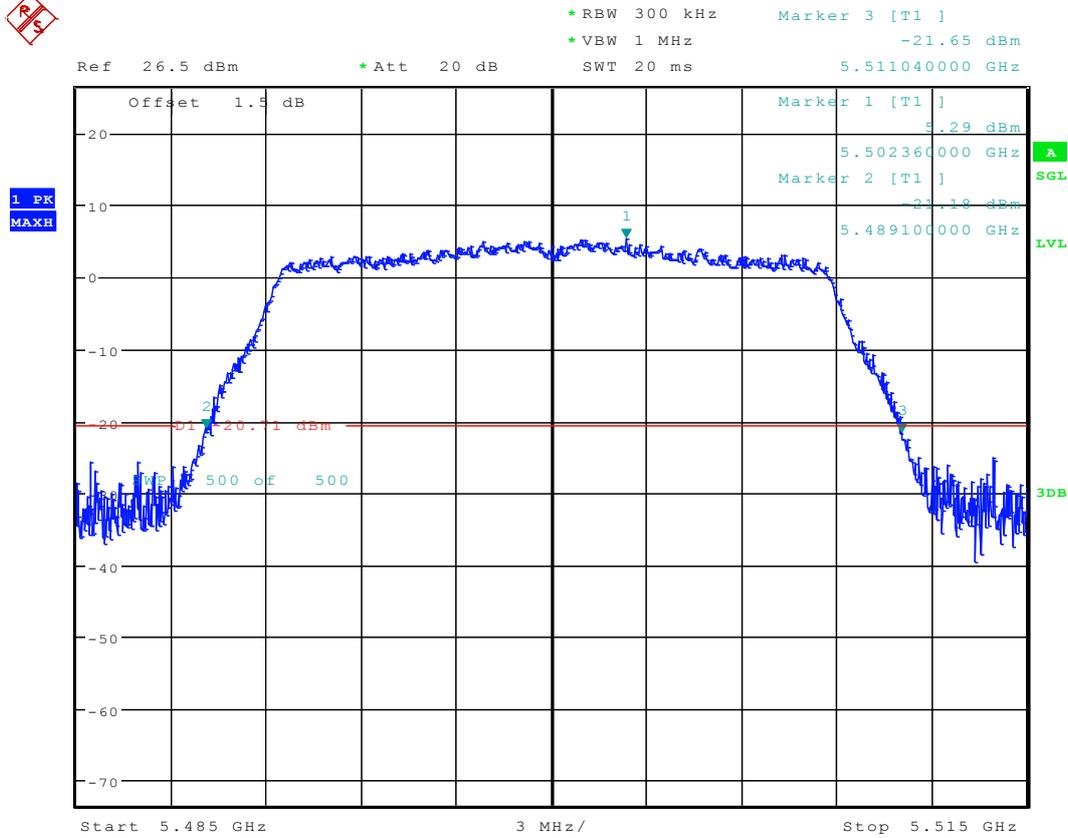
Date: 15.AUG.2016 12:52:26

### 2.22 11AC20\_64 Ant 1



Date: 15.AUG.2016 12:55:39

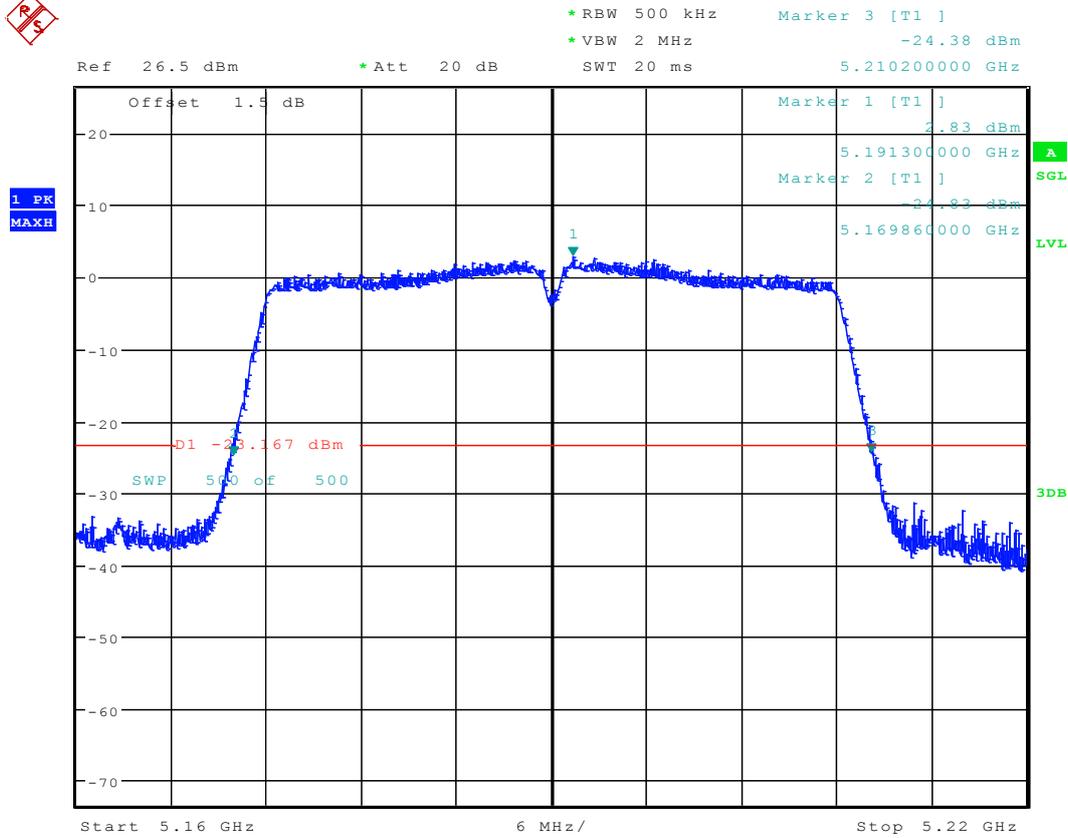
### 2.23 11AC20\_100 Ant 1



Date: 15.AUG.2016 12:58:53

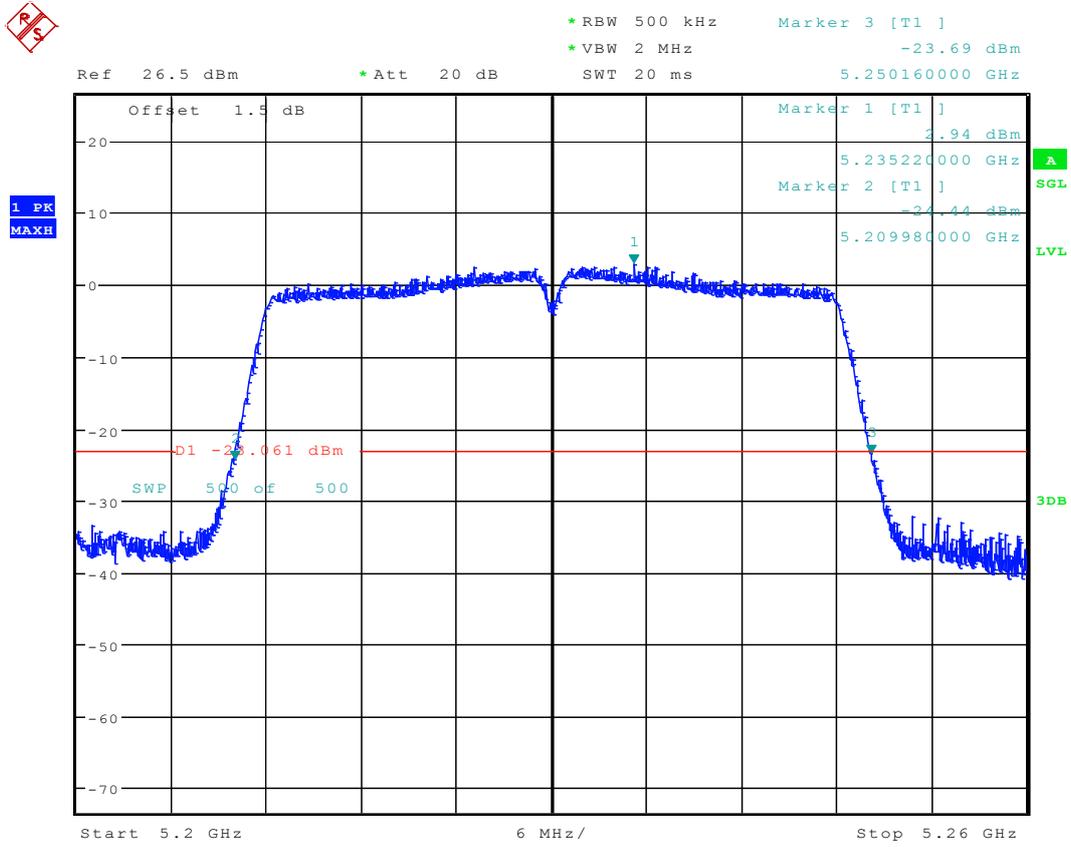


### 2.25 11AC40\_38 Ant 1



Date: 15.AUG.2016 13:27:14

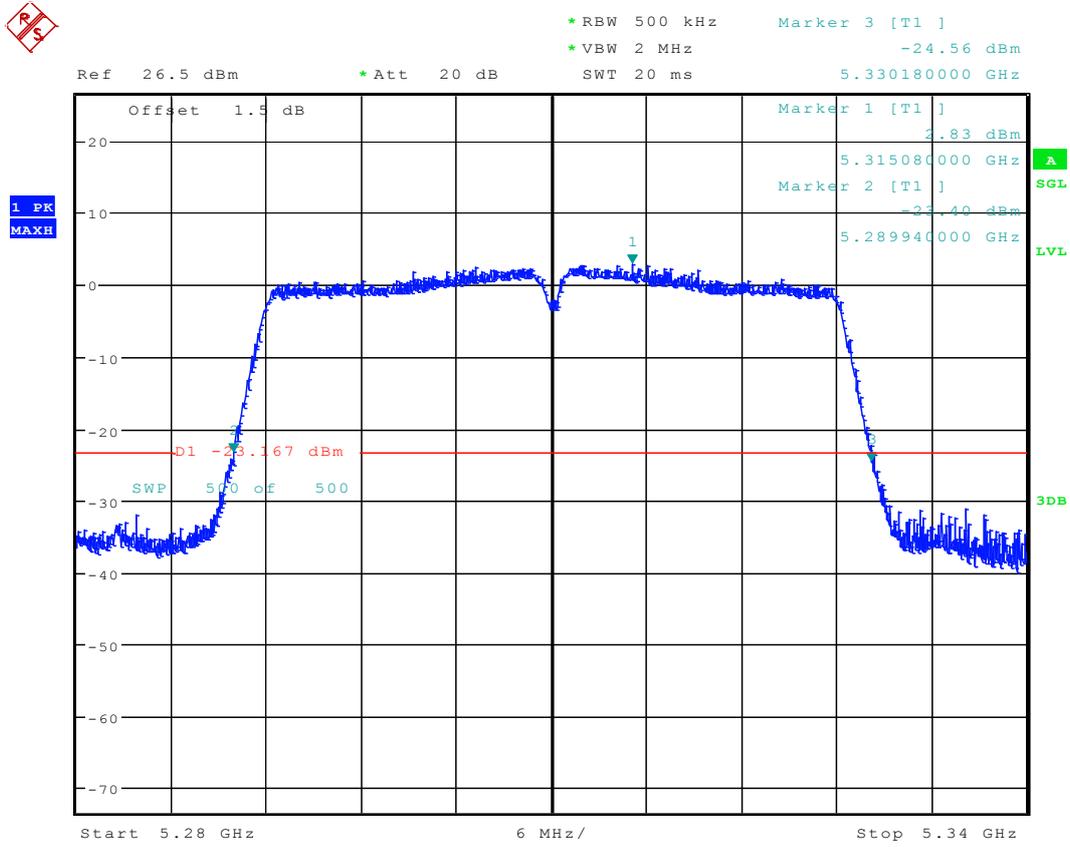
## 2.26 11AC40\_46 Ant 1



Date: 15.AUG.2016 13:30:21



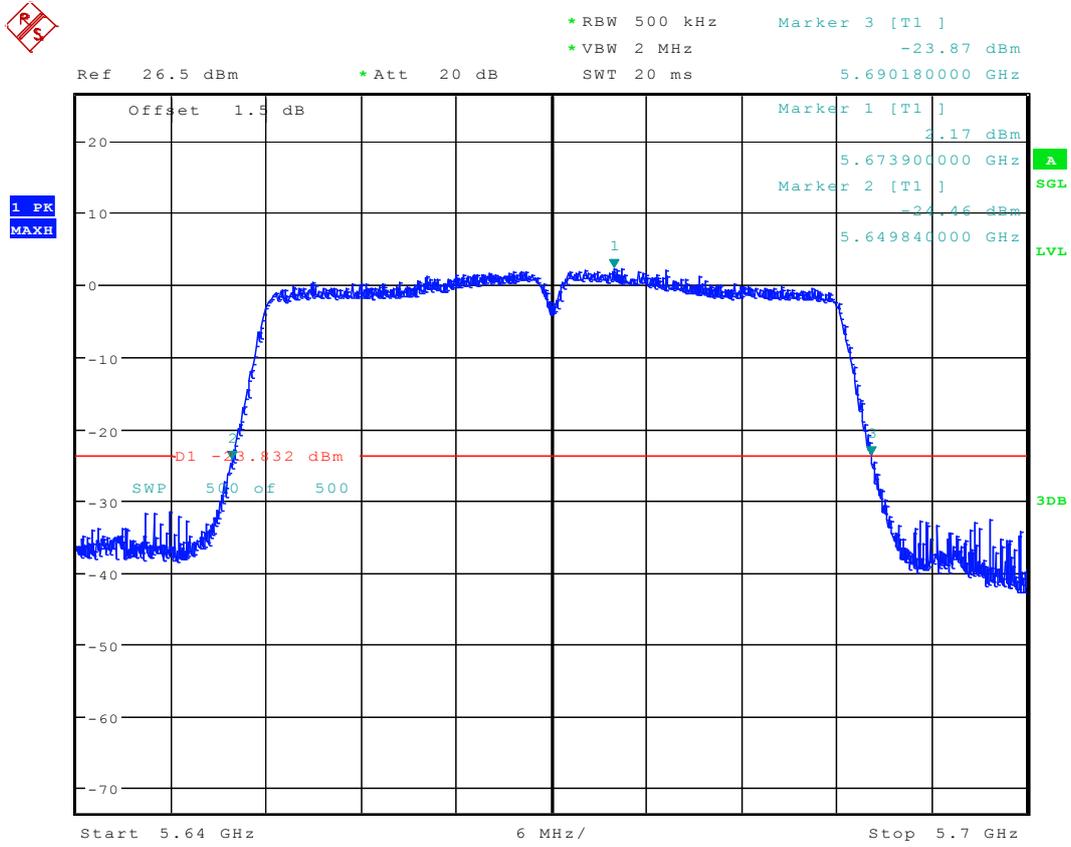
## 2.28 11AC40\_62 Ant 1



Date: 15.AUG.2016 13:39:08

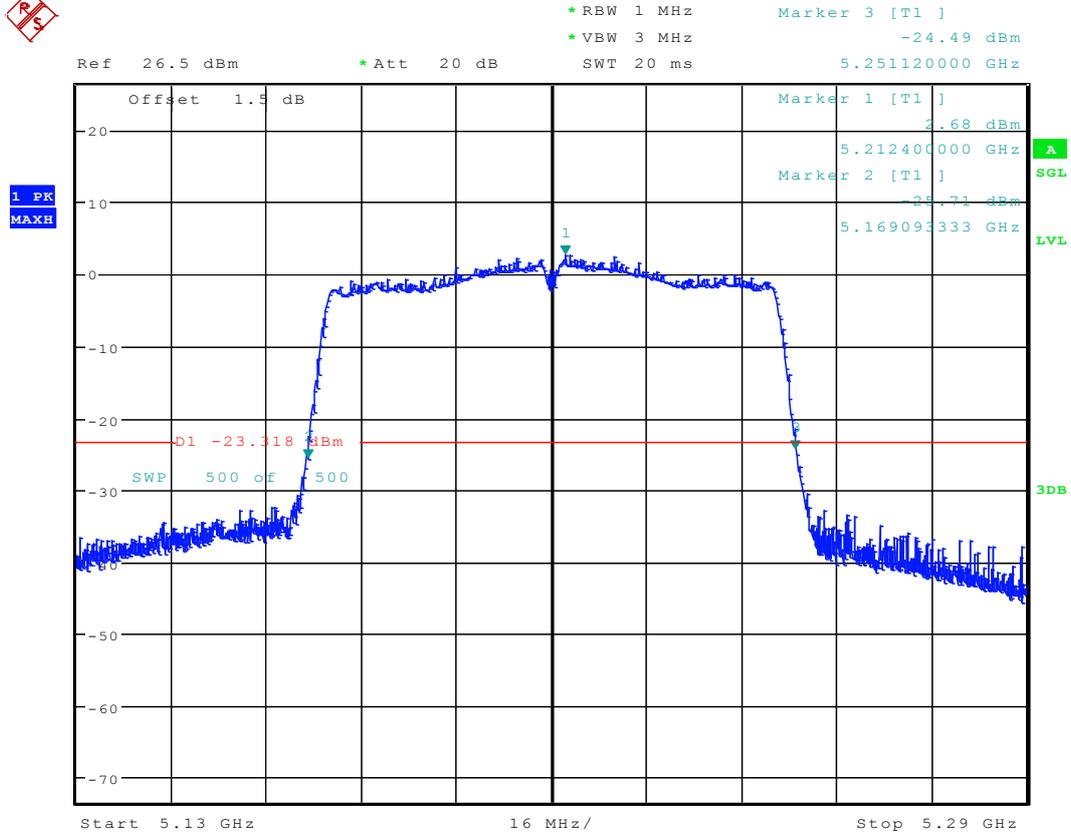


## 2.30 11AC40\_134 Ant 1



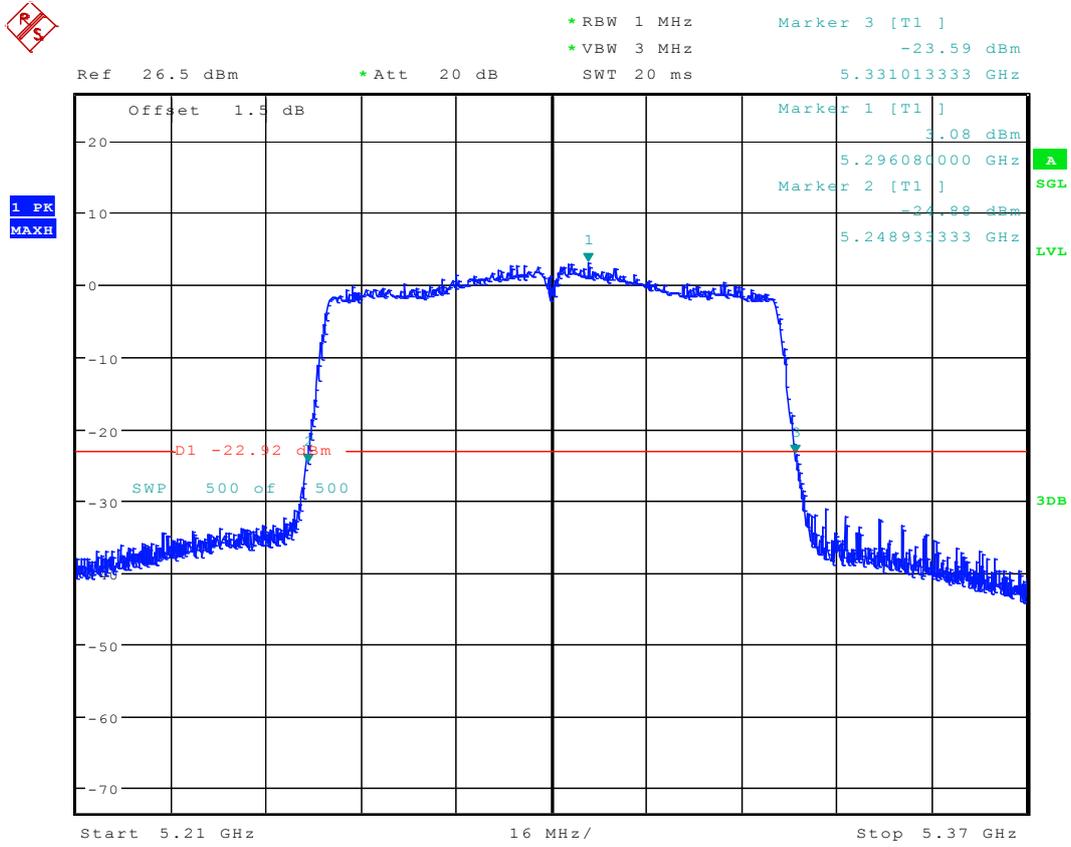
Date: 15.AUG.2016 13:24:26

### 2.31 11AC80\_42 Ant 1



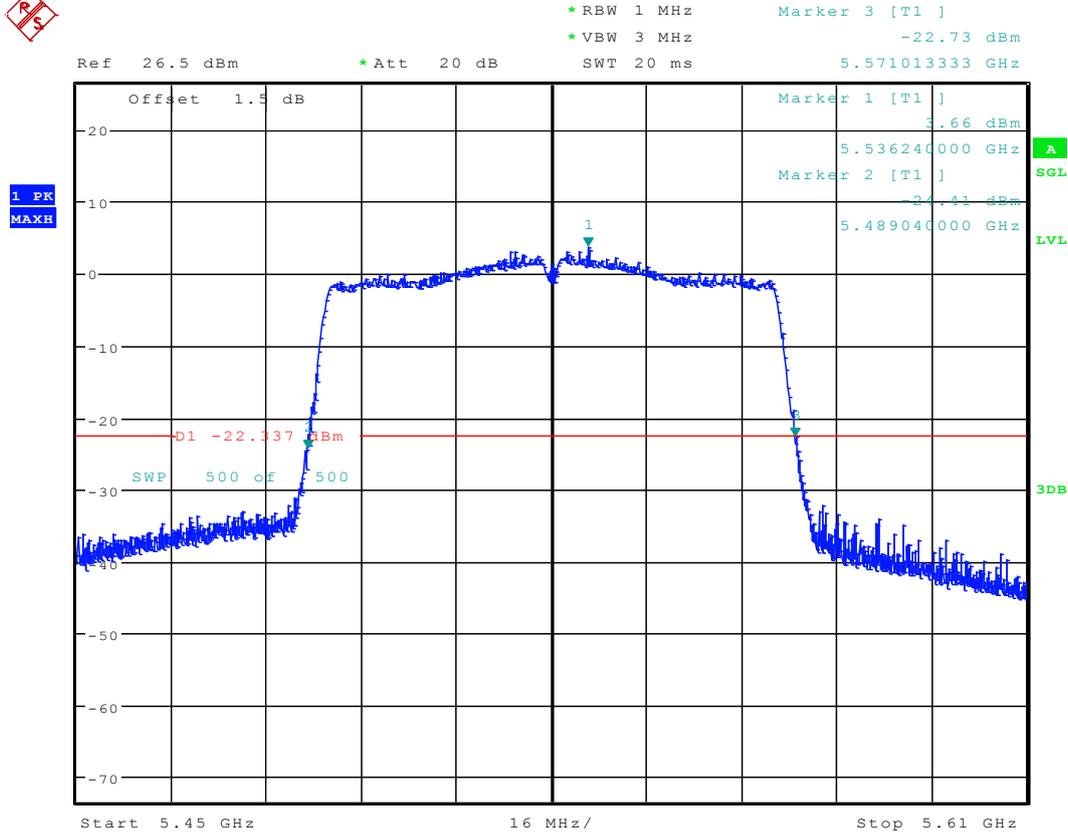
Date: 15.AUG.2016 13:43:47

## 2.32 11AC80\_58 Ant 1



Date: 15.AUG.2016 13:51:58

### 2.33 11AC80\_106 Ant 1

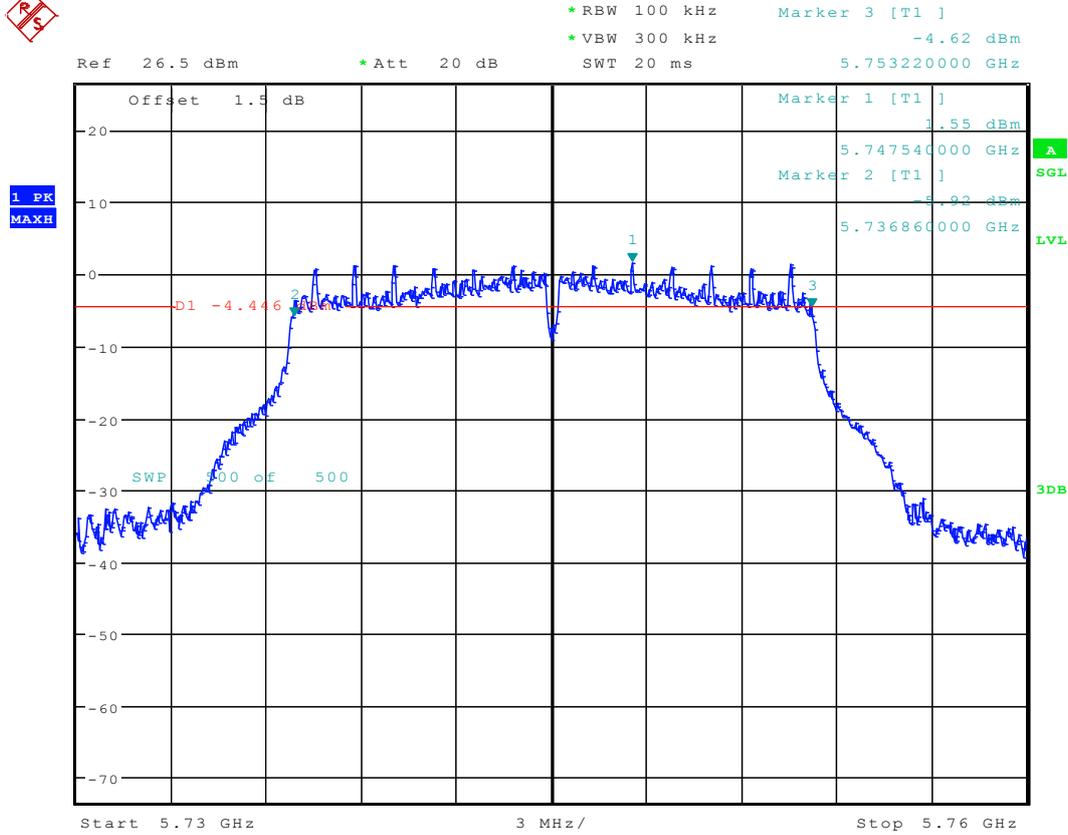


Date: 15.AUG.2016 13:56:01



### 3 Test Plot for 6dBEmission Bandwidth

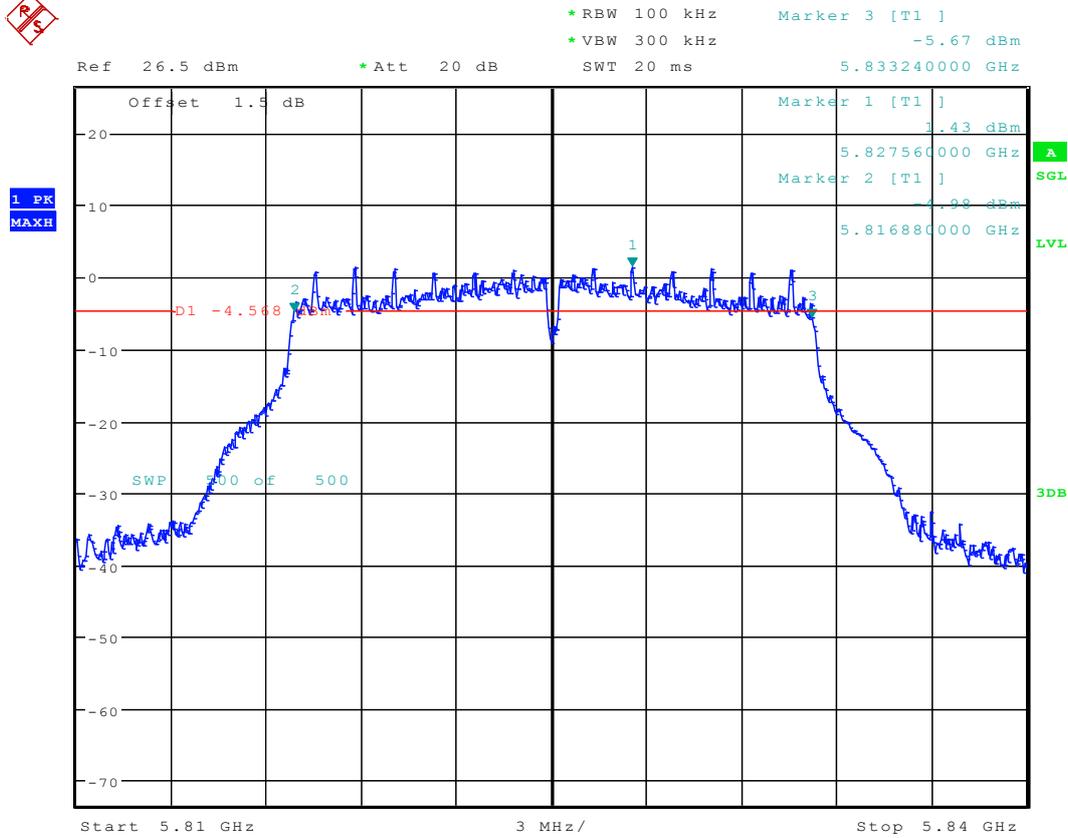
#### 3.1 11A\_149 Ant 1



Date: 15.AUG.2016 08:34:36

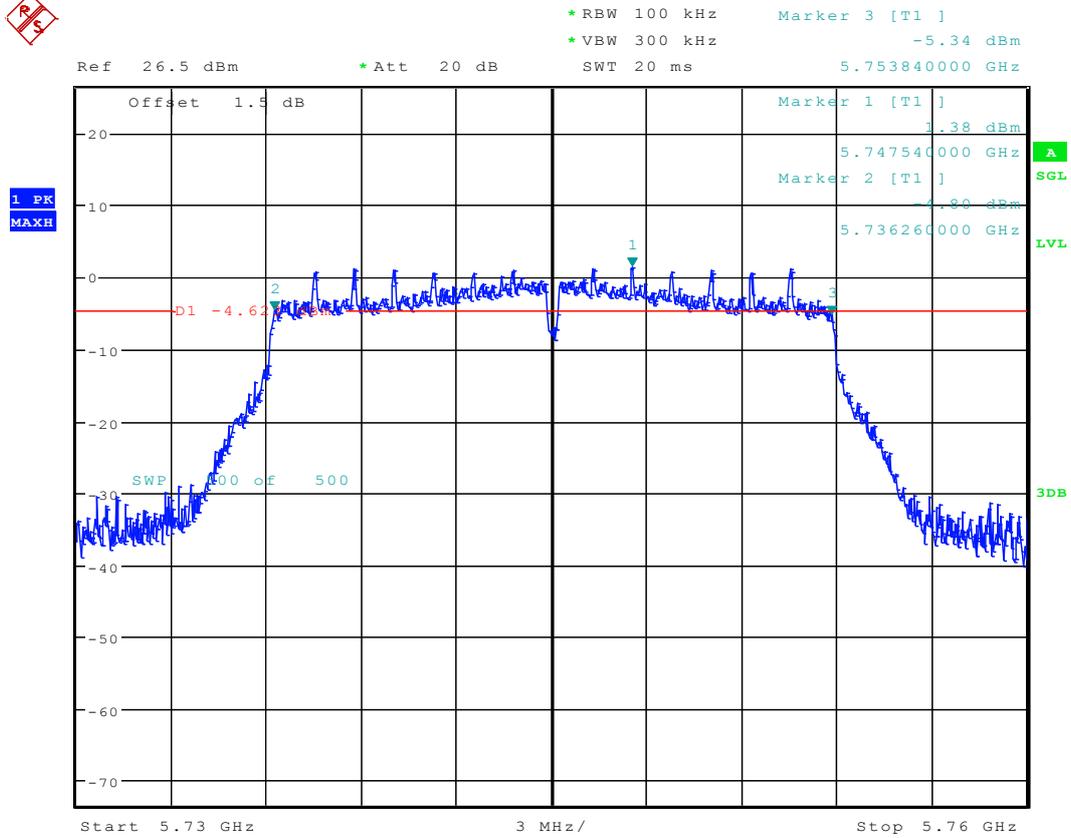


### 3.2 11A\_165 Ant 1



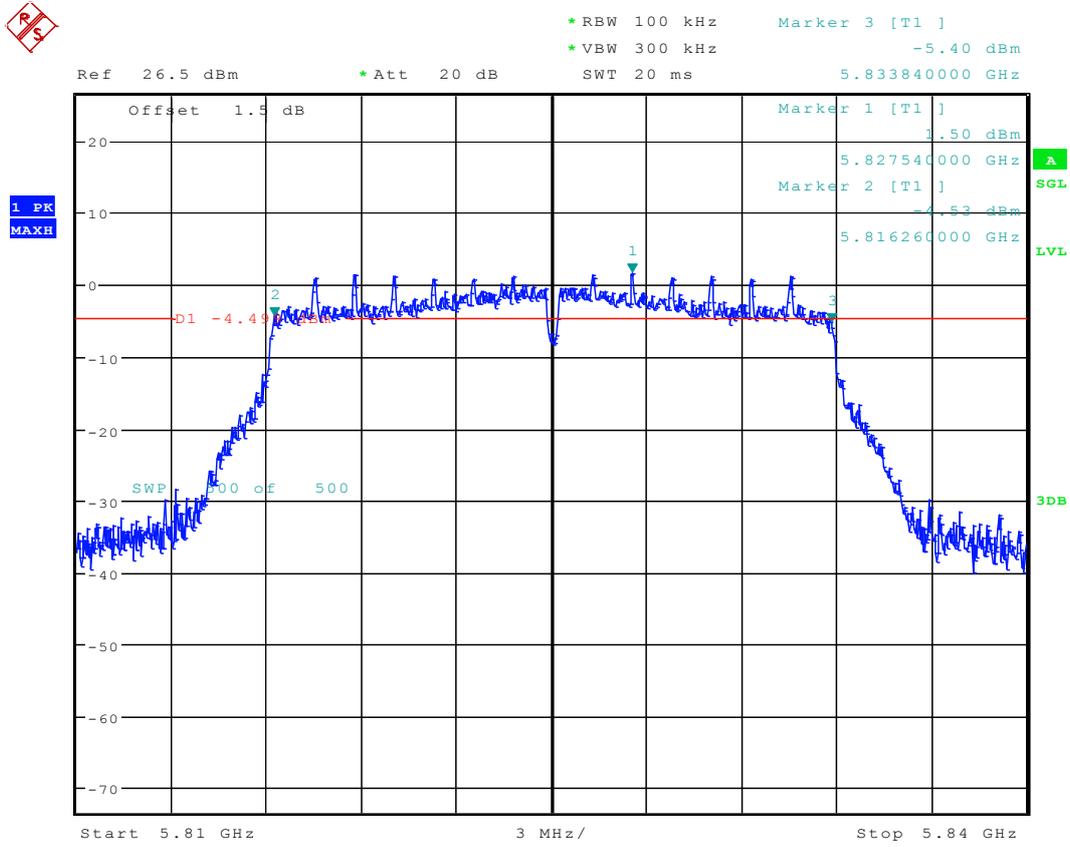
Date: 15.AUG.2016 10:13:44

## 3.3 11N20\_149 Ant 1



Date: 15.AUG.2016 11:28:08

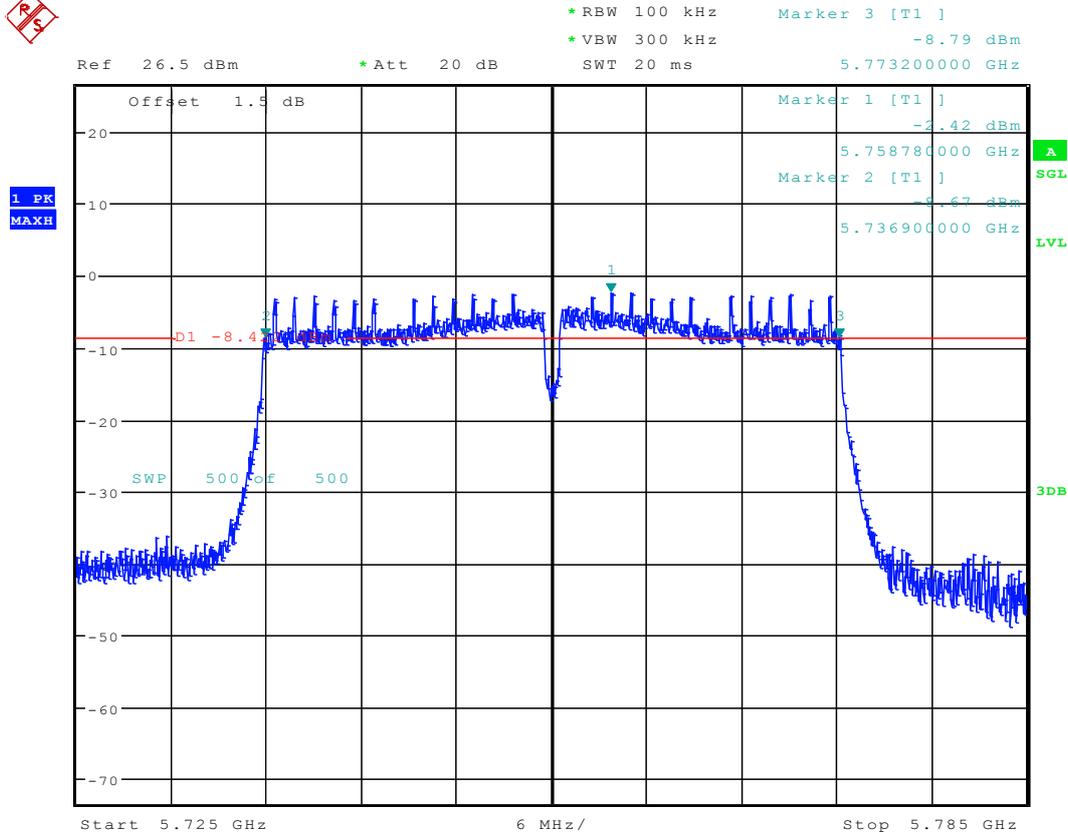
## 3.4 11N20\_165 Ant 1



Date: 15.AUG.2016 11:31:48

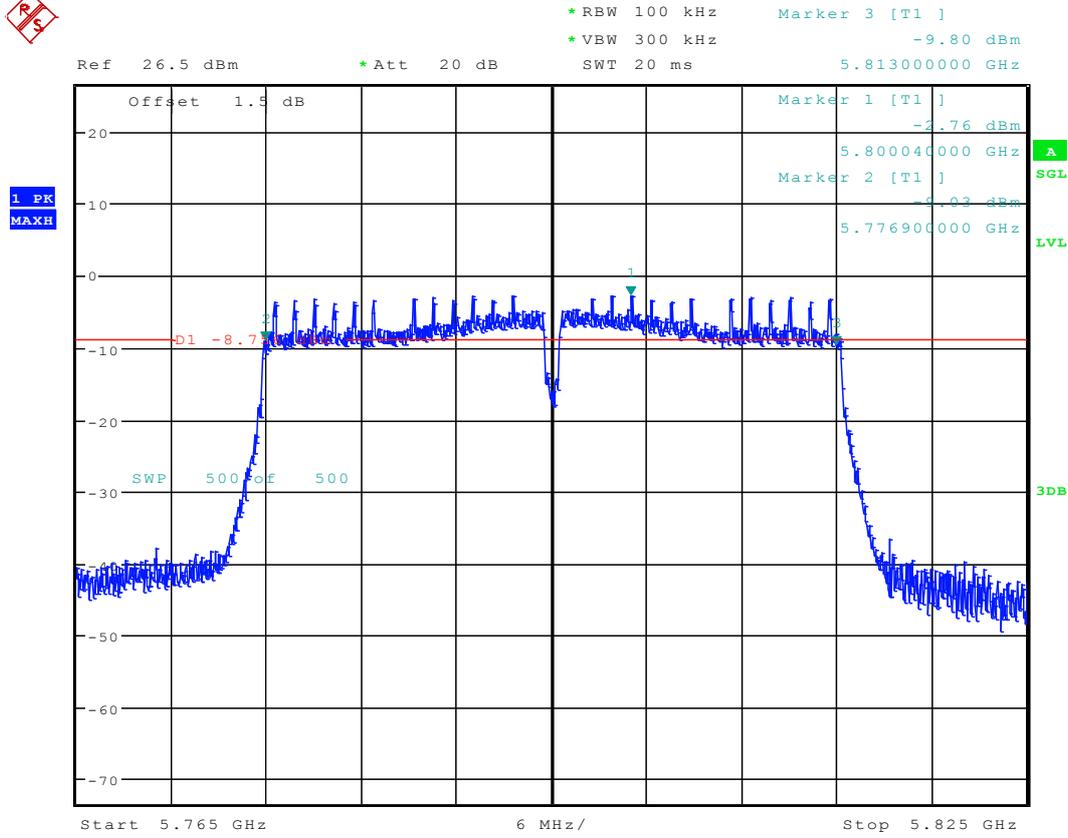


### 3.5 11N40\_151 Ant 1



Date: 15.AUG.2016 11:56:17

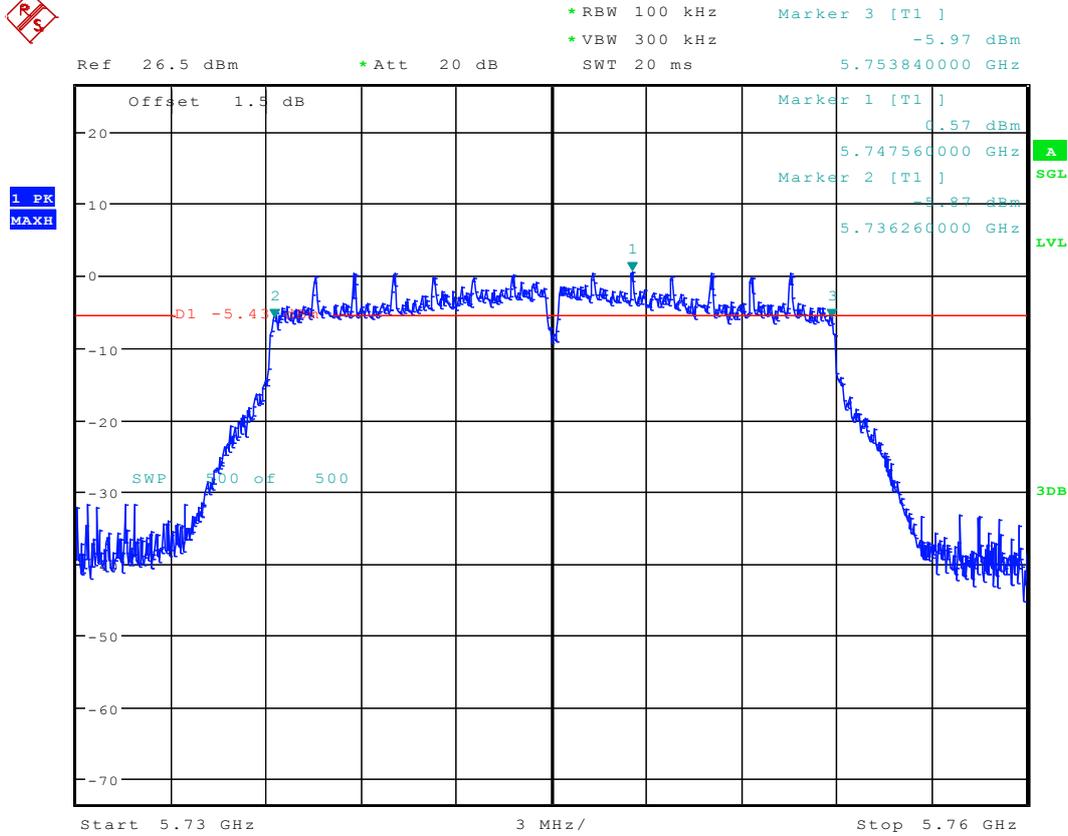
### 3.6 11N40\_159 Ant 1



Date: 15.AUG.2016 12:00:02

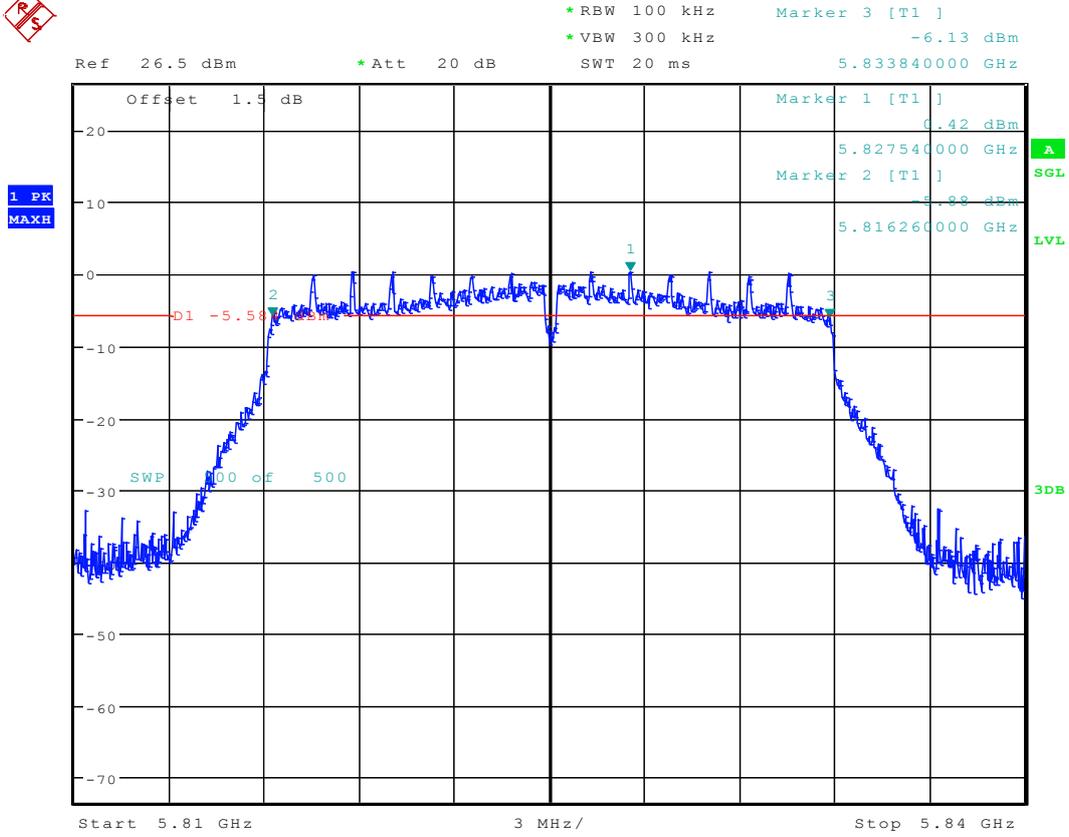


### 3.7 11AC20\_149 Ant 1



Date: 15.AUG.2016 13:05:30

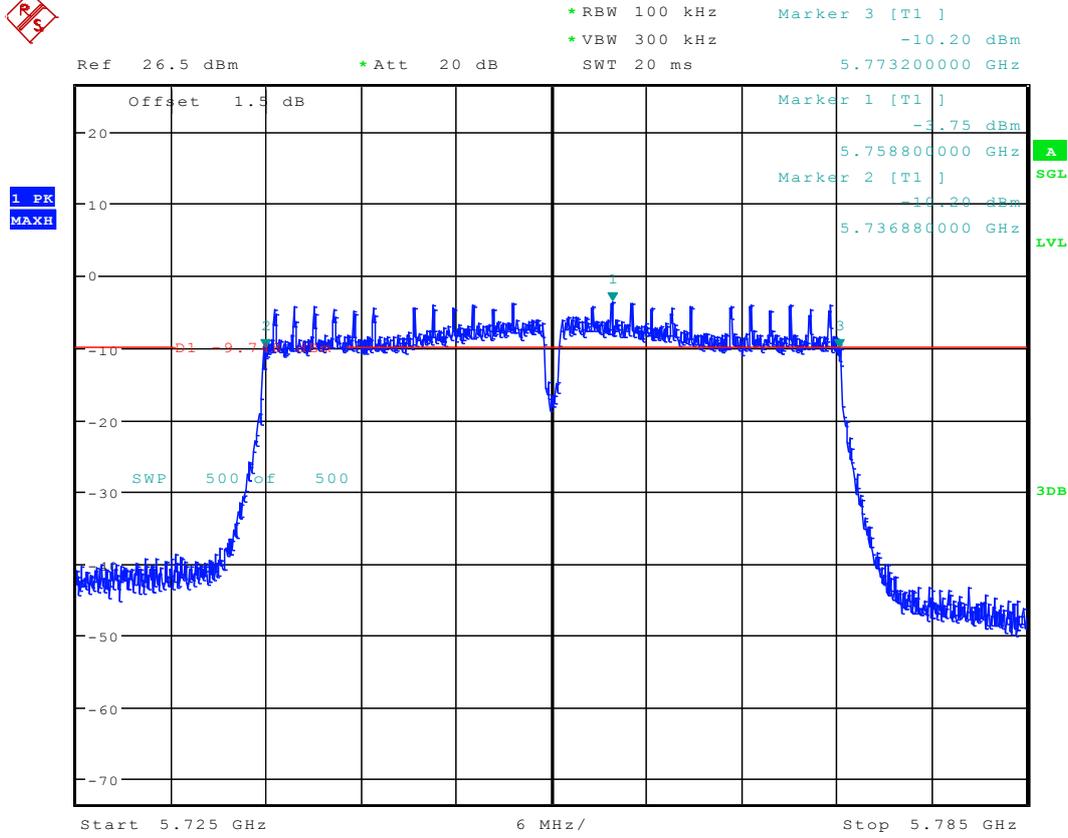
### 3.8 11AC20\_165 Ant 1



Date: 15.AUG.2016 13:09:16

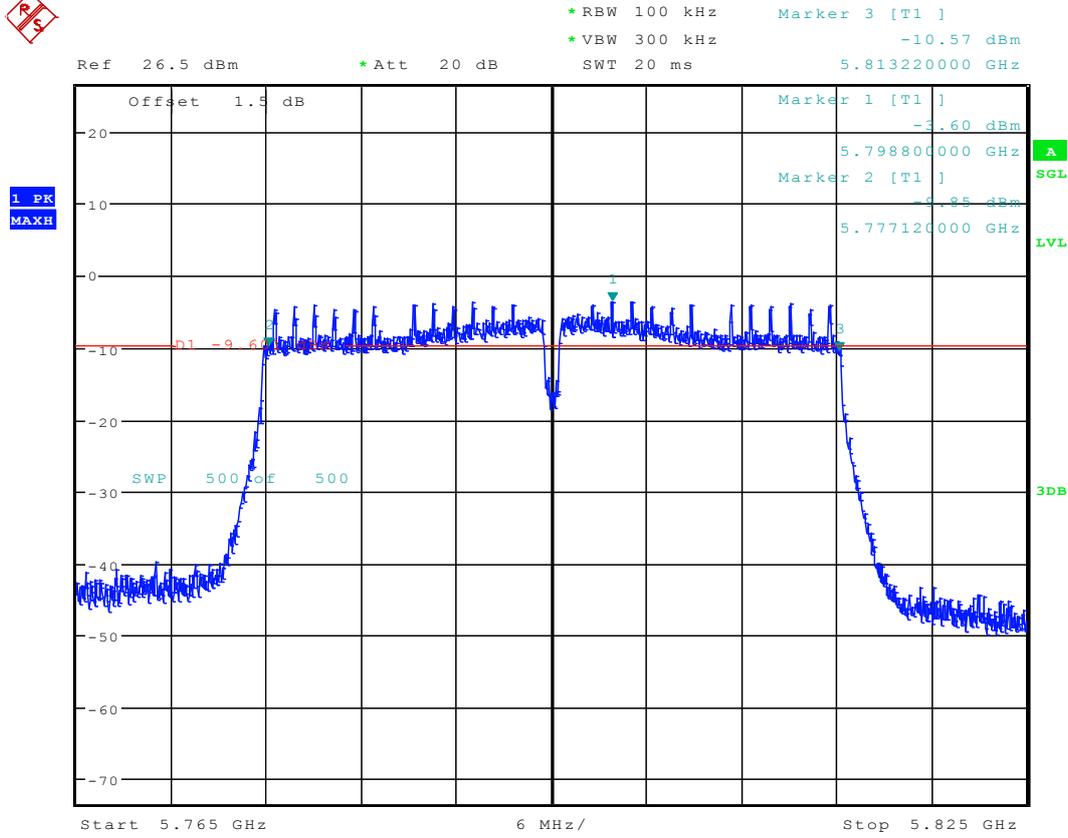


### 3.9 11AC40\_151 Ant 1



Date: 15.AUG.2016 13:13:26

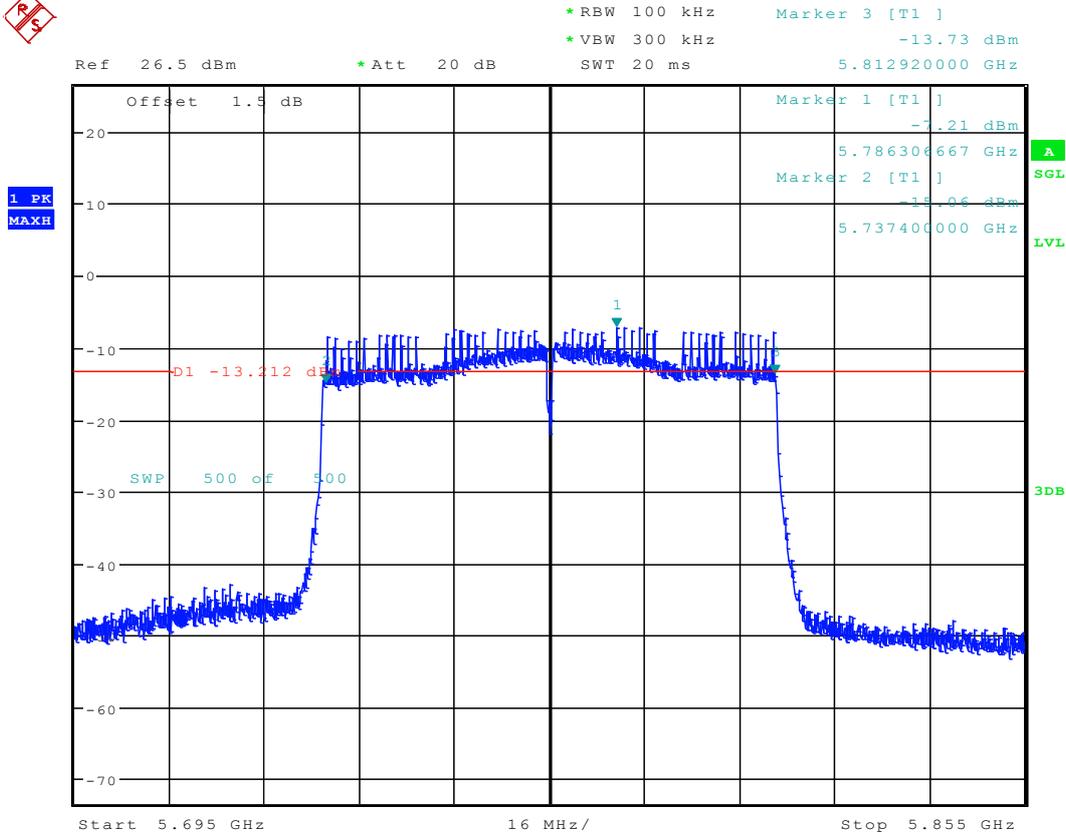
### 3.1011AC40\_159 Ant 1



Date: 15.AUG.2016 13:17:31



### 3.1111AC80\_155 Ant 1



Date: 15.AUG.2016 13:59:34



# Appendix B Occupied Bandwidth (OBW)



## 4 (OBW)Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Occupied Bandwidth [MHz]	Verdict
11A	36	5180	Ant 1	17.08	pass
	48	5240	Ant 1	17.10	pass
	52	5260	Ant 1	17.10	pass
	64	5320	Ant 1	17.12	pass
	100	5500	Ant 1	17.12	pass
	140	5700	Ant 1	17.14	pass
	149	5745	Ant 1	17.16	pass
	165	5825	Ant 1	17.14	pass
11N20	36	5180	Ant 1	18.20	pass
	48	5240	Ant 1	18.20	pass
	52	5260	Ant 1	18.16	pass
	64	5320	Ant 1	18.14	pass
	100	5500	Ant 1	18.18	pass
	140	5700	Ant 1	18.16	pass
	149	5745	Ant 1	18.20	pass
	165	5825	Ant 1	18.18	pass
11N40	38	5190	Ant 1	36.38	pass
	46	5230	Ant 1	36.38	pass
	54	5270	Ant 1	36.36	pass
	62	5310	Ant 1	36.40	pass
	102	5510	Ant 1	36.42	pass
	134	5670	Ant 1	36.40	pass
	151	5755	Ant 1	36.42	pass
	159	5795	Ant 1	36.40	pass
11AC20	36	5180	Ant 1	18.16	pass
	48	5240	Ant 1	18.14	pass
	52	5260	Ant 1	18.16	pass
	64	5320	Ant 1	18.12	pass
	100	5500	Ant 1	18.16	pass
	140	5700	Ant 1	18.14	pass
	149	5745	Ant 1	18.16	pass
	165	5825	Ant 1	18.18	pass

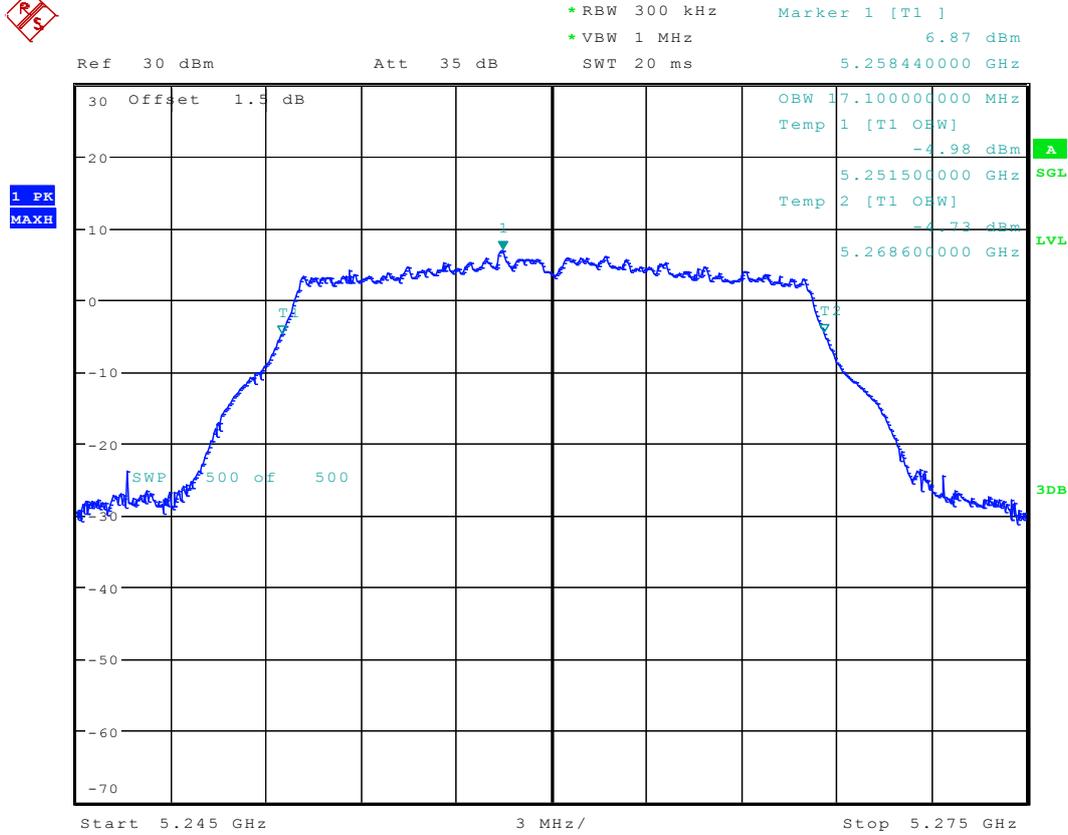


11AC40	38	5190	Ant 1	36.40	pass
	46	5230	Ant 1	36.36	pass
	54	5270	Ant 1	36.36	pass
	62	5310	Ant 1	36.36	pass
	102	5510	Ant 1	36.38	pass
	134	5670	Ant 1	36.40	pass
	151	5755	Ant 1	36.38	pass
	159	5795	Ant 1	36.38	pass
11AC80	42	5210	Ant 1	75.68	pass
	58	5290	Ant 1	75.64	pass
	106	5530	Ant 1	75.64	pass
	155	5775	Ant 1	75.52	pass



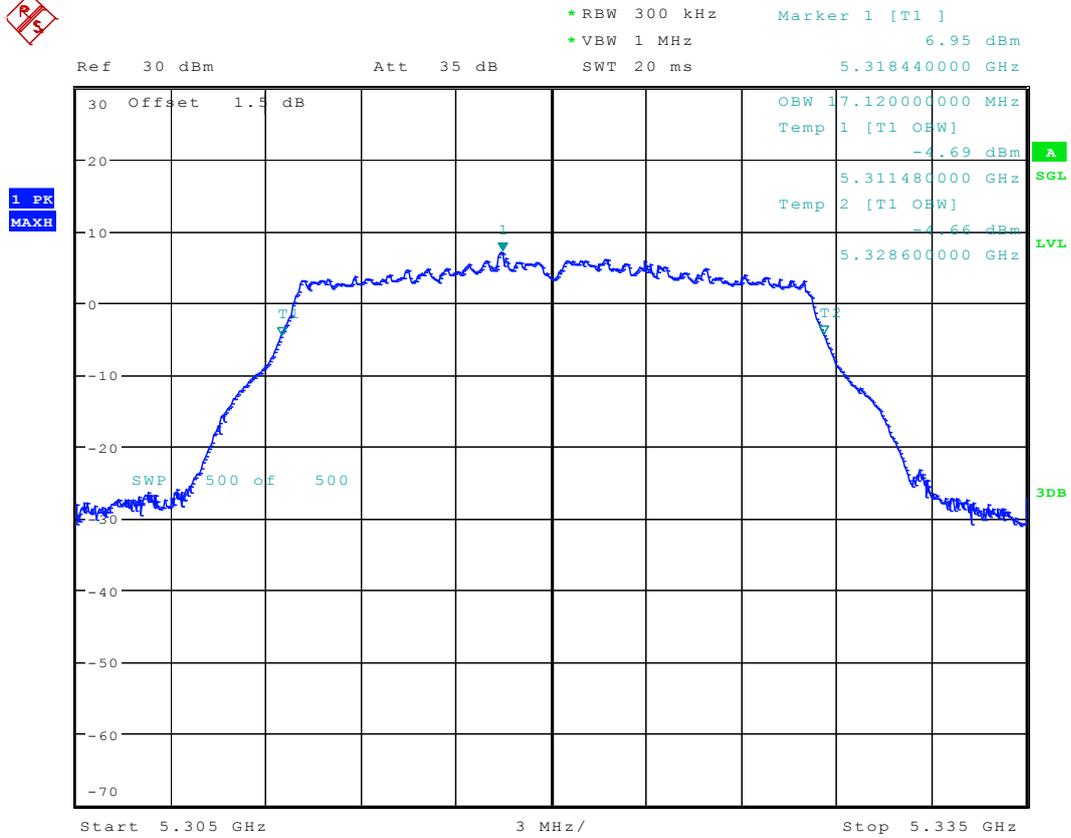


### 5.3 11A\_52 Ant 1



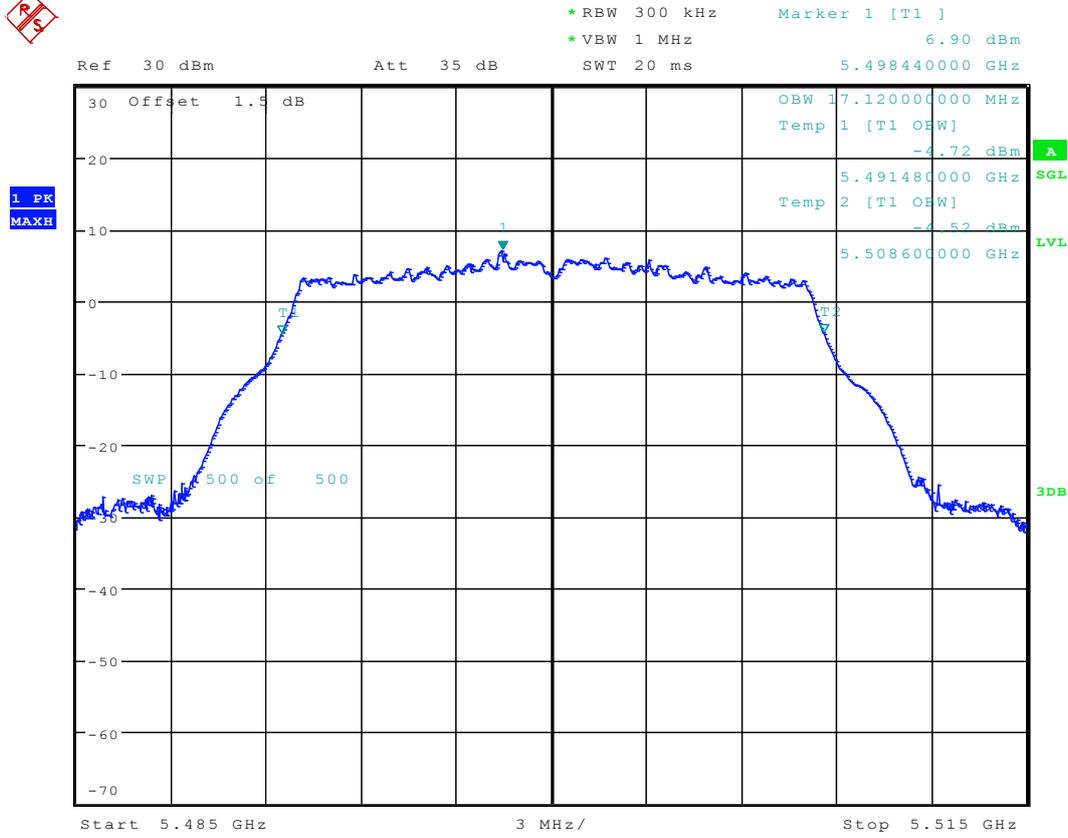
Date: 15.AUG.2016 07:50:05

### 5.4 11A\_64 Ant 1



Date: 15.AUG.2016 08:25:00

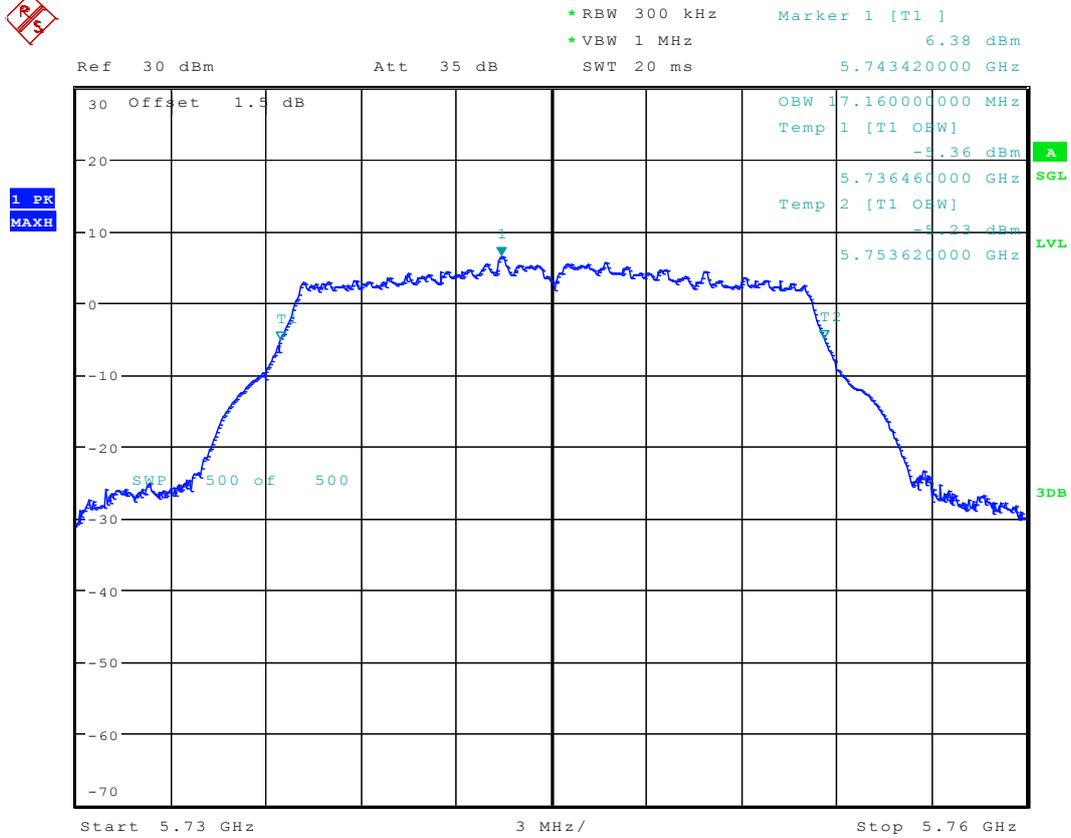
### 5.5 11A\_100 Ant 1



Date: 15.AUG.2016 08:28:35



### 5.7 11A\_149 Ant 1

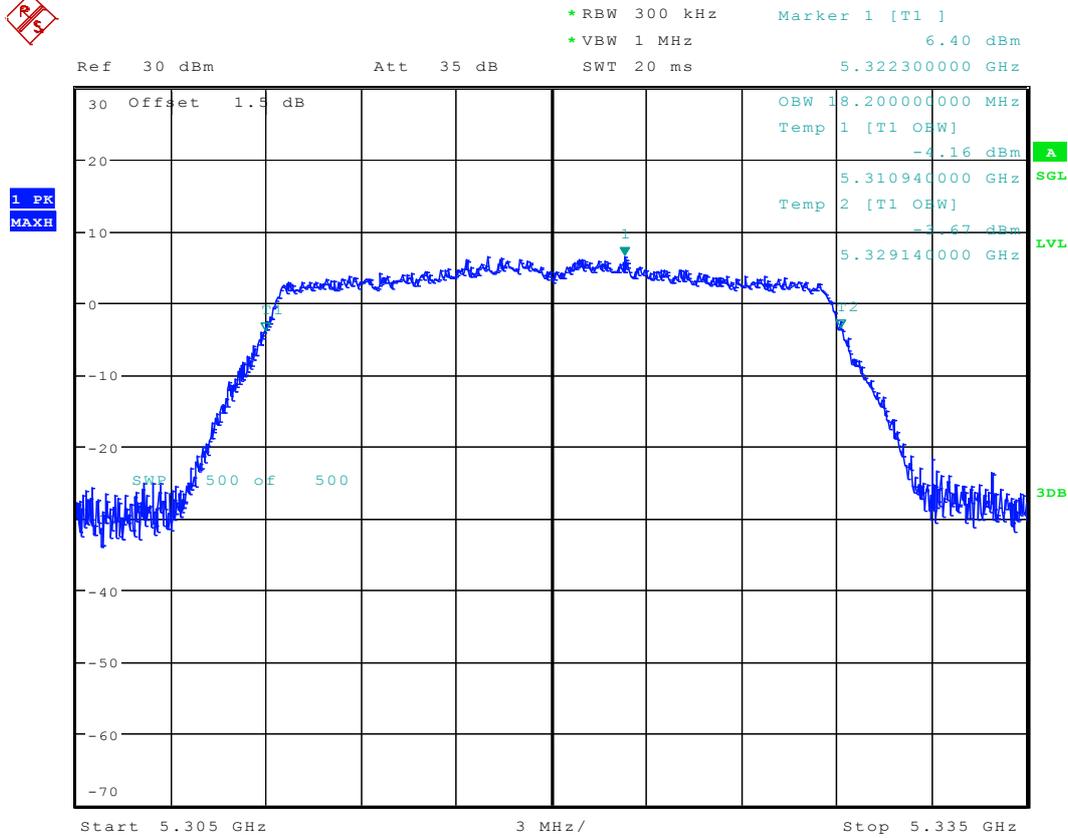


Date: 15.AUG.2016 08:35:11



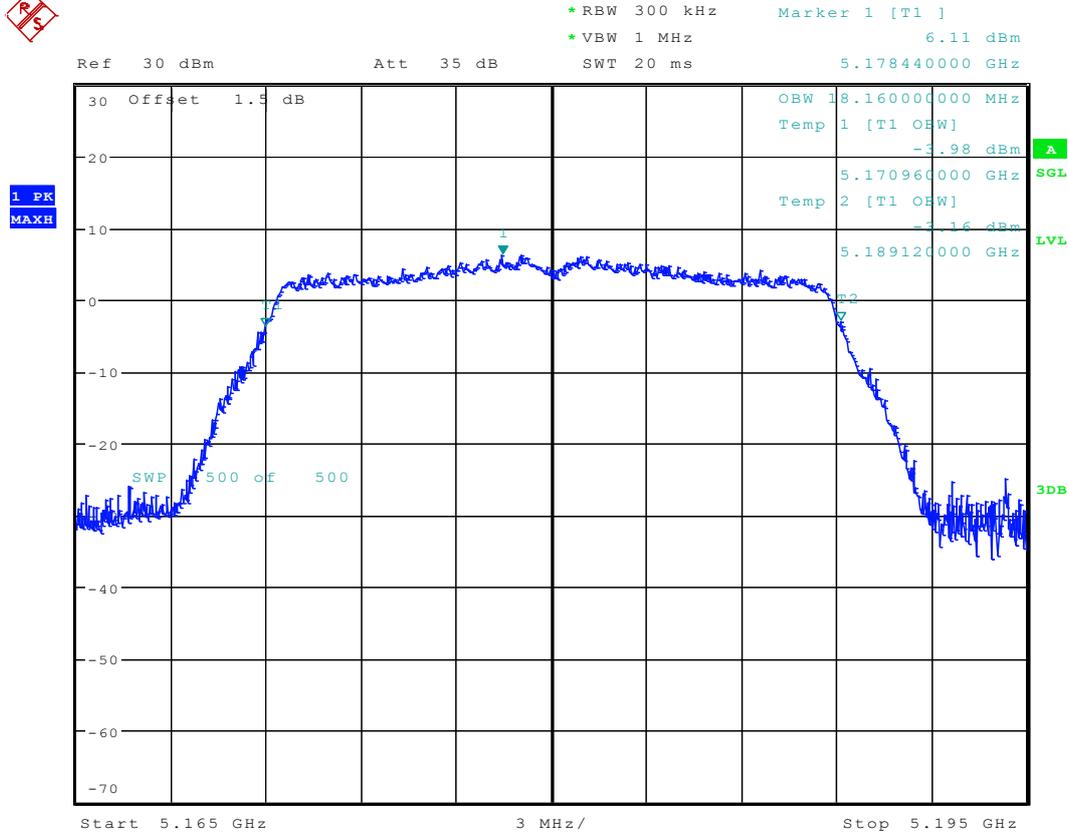


### 5.10 11N20\_48 Ant 1



Date: 15.AUG.2016 11:04:38

### 5.11 11N20\_52 Ant 1

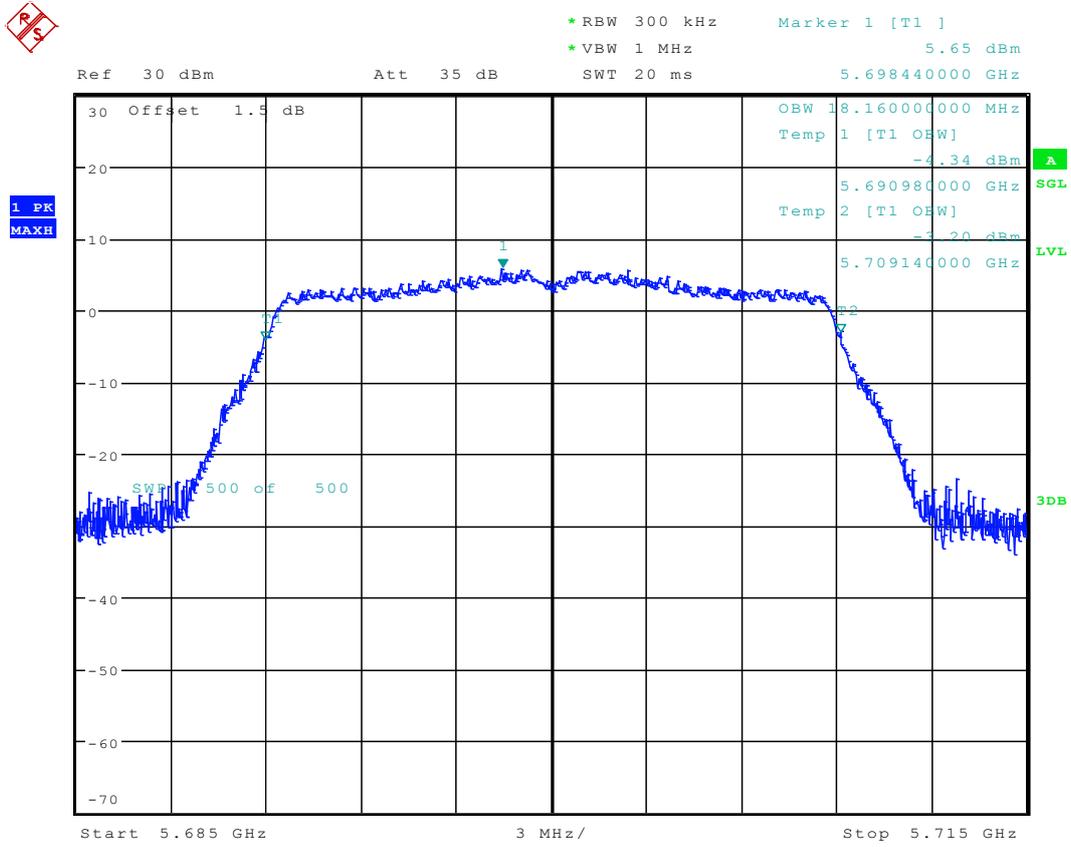


Date: 15.AUG.2016 10:40:23



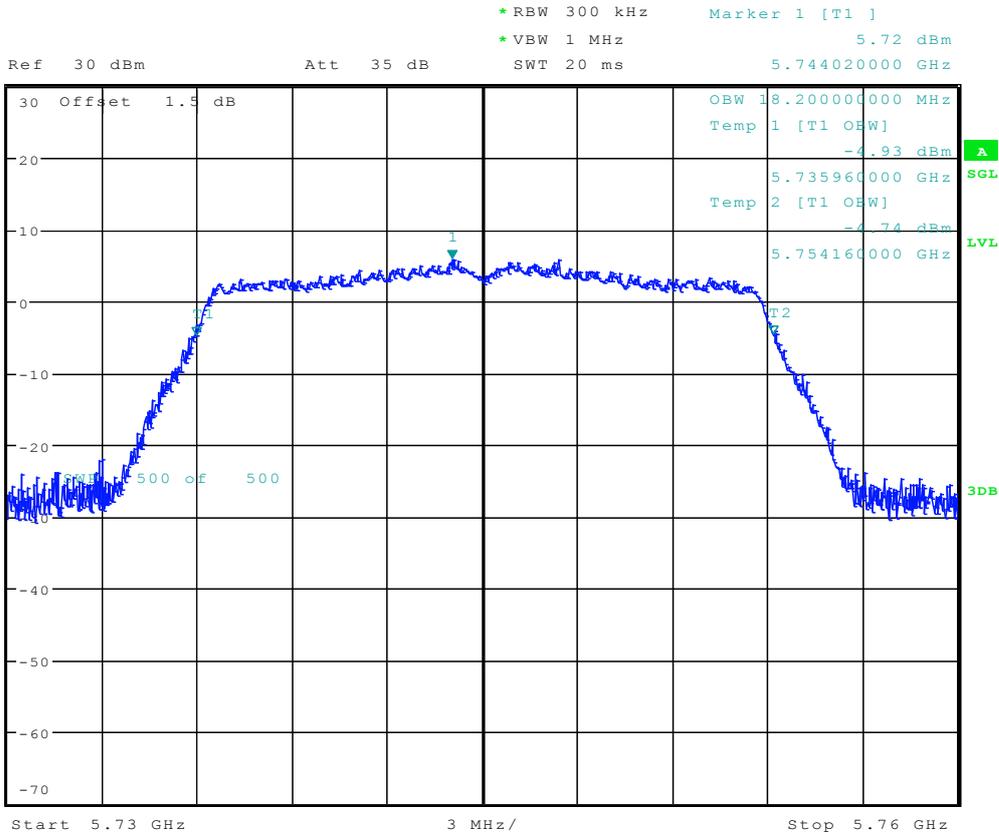


## 5.14 11N20\_140 Ant 1



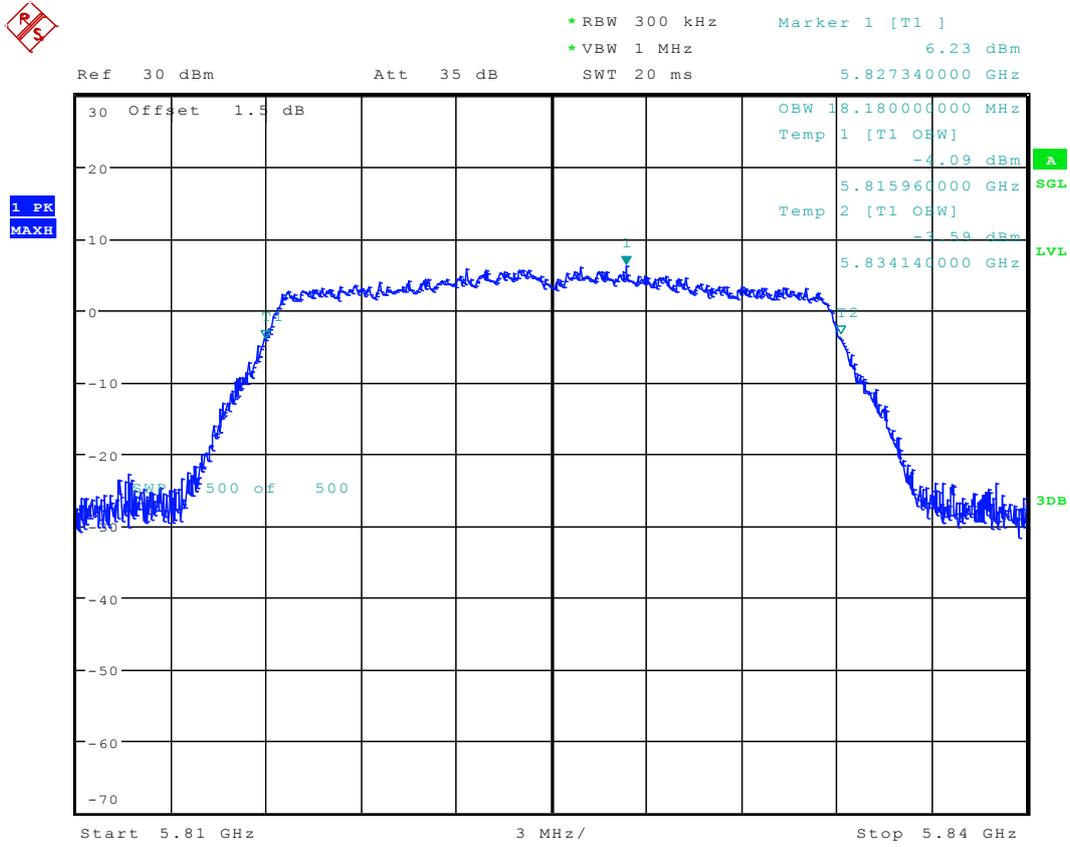
Date: 15.AUG.2016 11:18:14

### 5.15 11N20\_149 Ant 1



Date: 15.AUG.2016 11:28:42

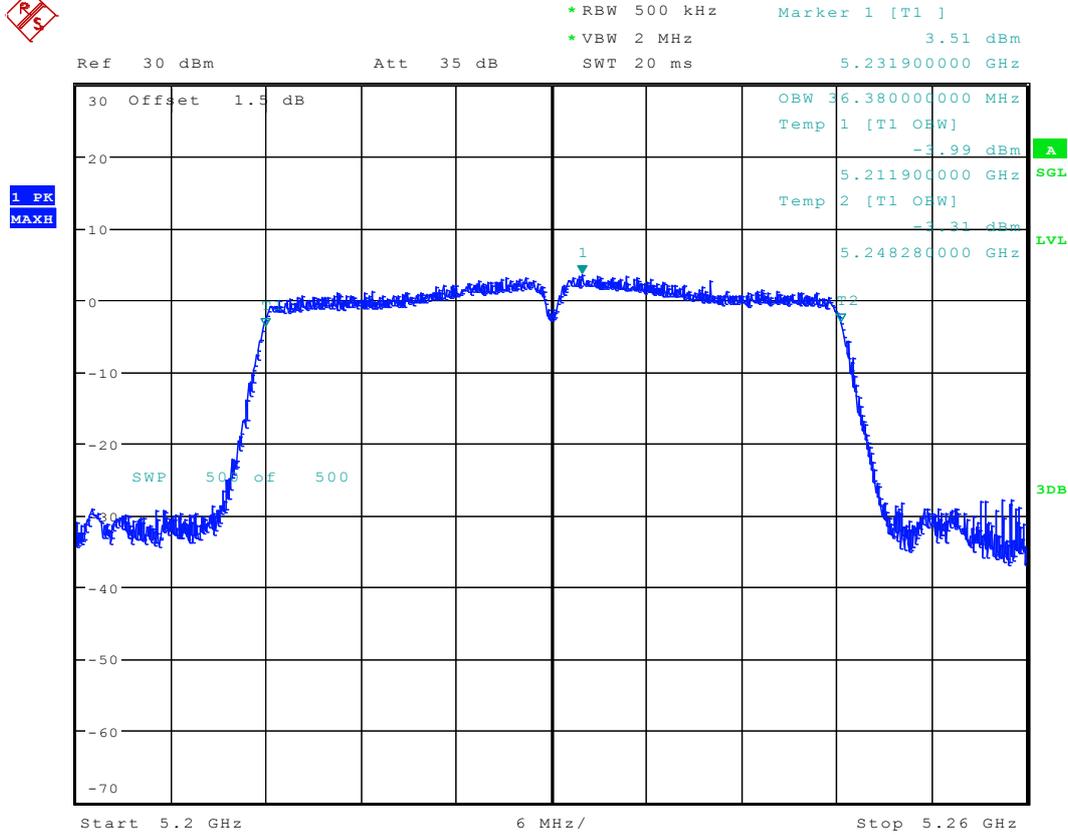
## 5.16 11N20\_165 Ant 1



Date: 15.AUG.2016 11:32:22

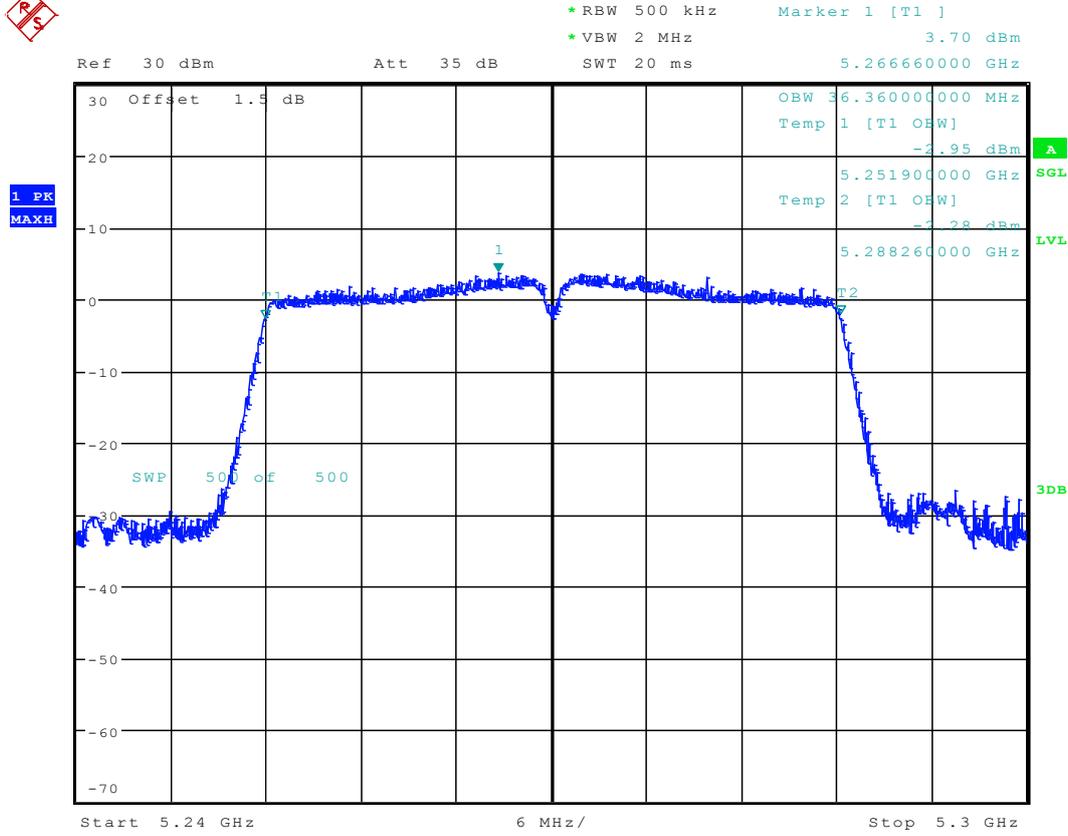


### 5.18 11N40\_46 Ant 1



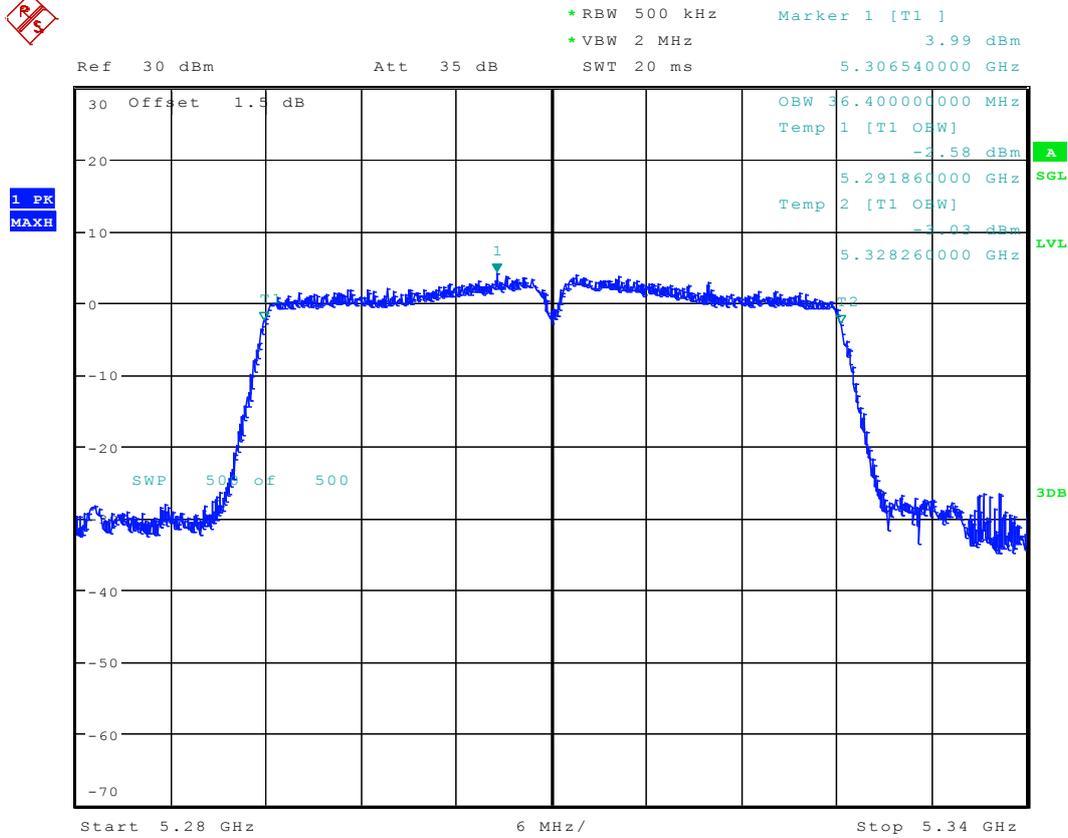
Date: 15.AUG.2016 11:41:01

### 5.19 11N40\_54 Ant 1



Date: 15.AUG.2016 11:44:29

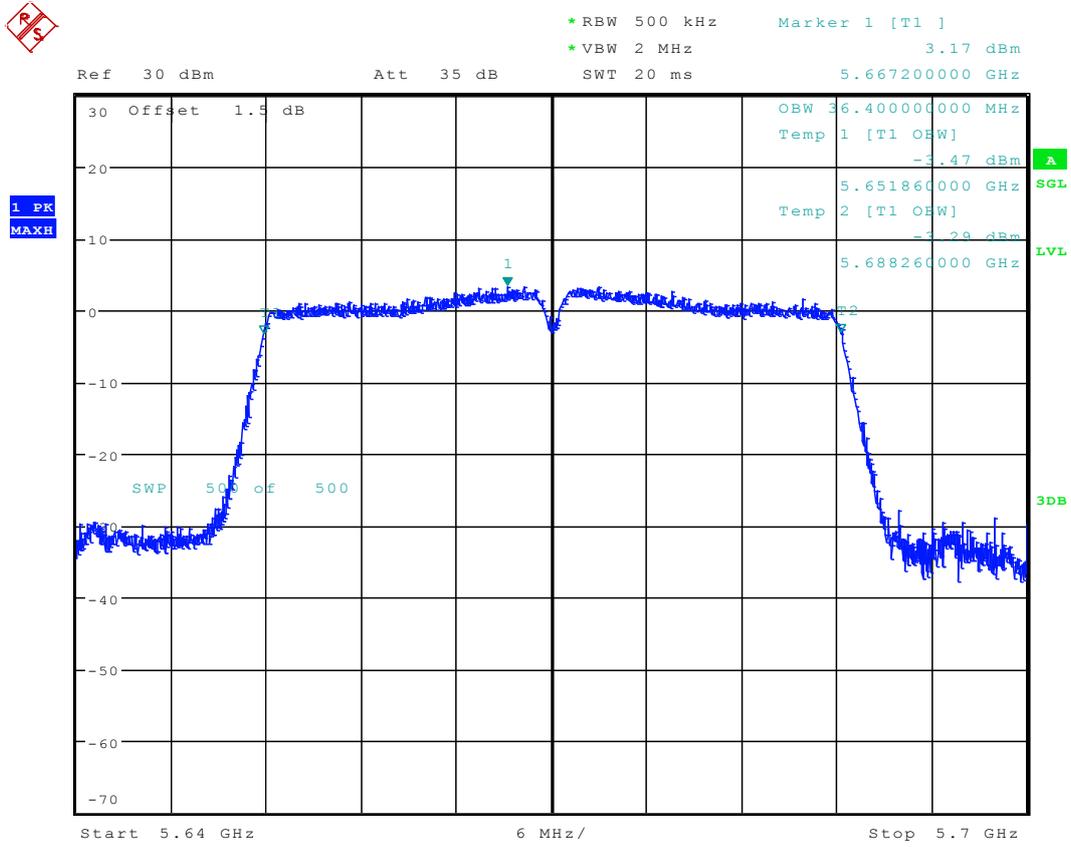
### 5.20 11N40\_62 Ant 1



Date: 15.AUG.2016 11:47:52

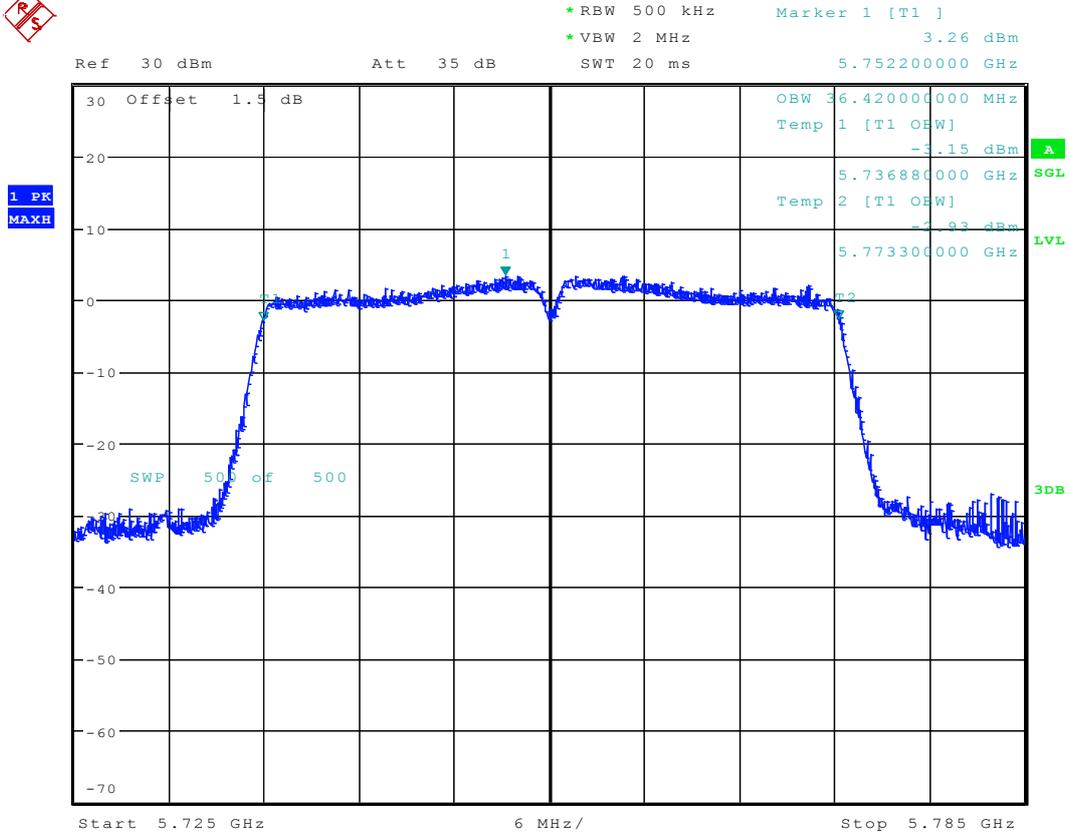


## 5.22 11N40\_134 Ant 1



Date: 15.AUG.2016 11:54:10

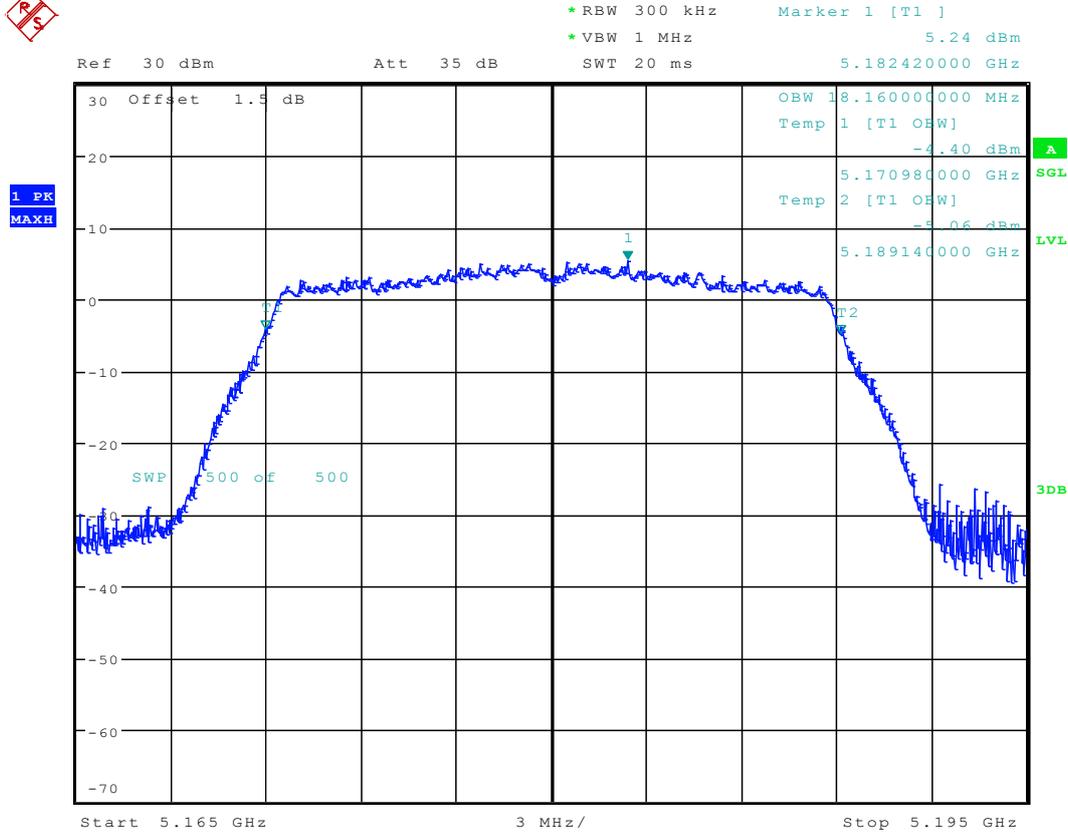
### 5.23 11N40\_151 Ant 1



Date: 15.AUG.2016 11:56:56

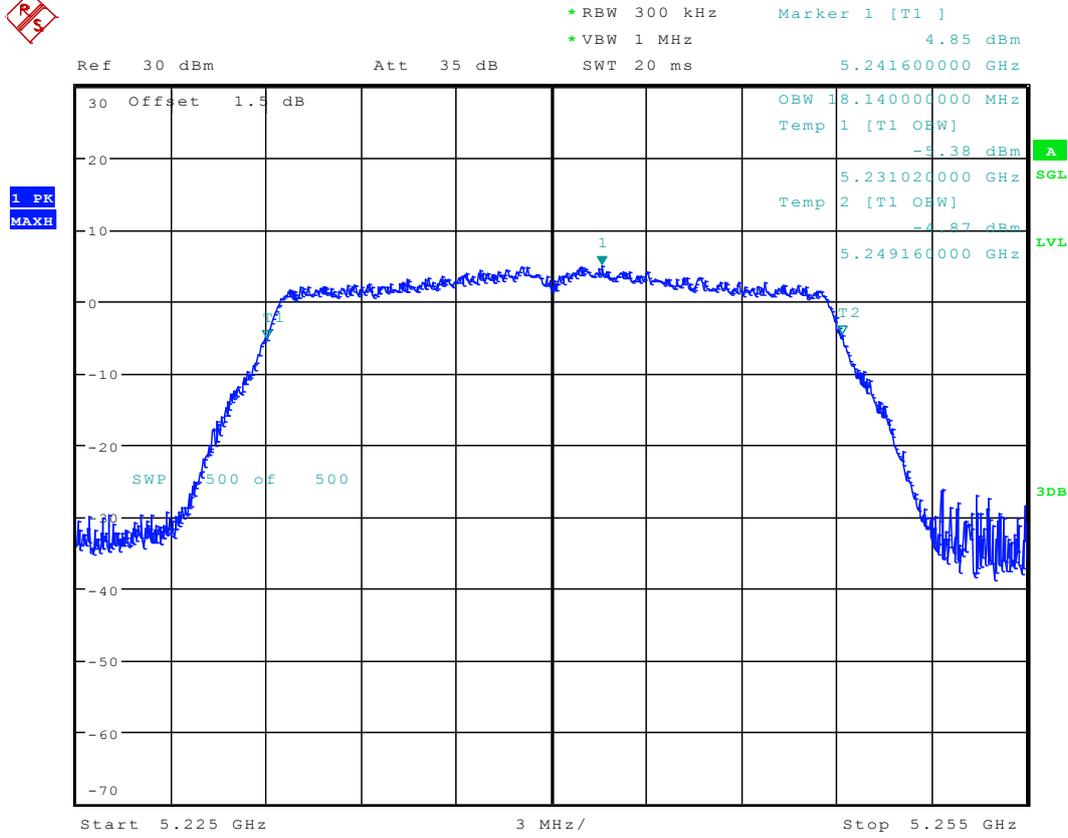


### 5.25 11AC20\_36 Ant 1



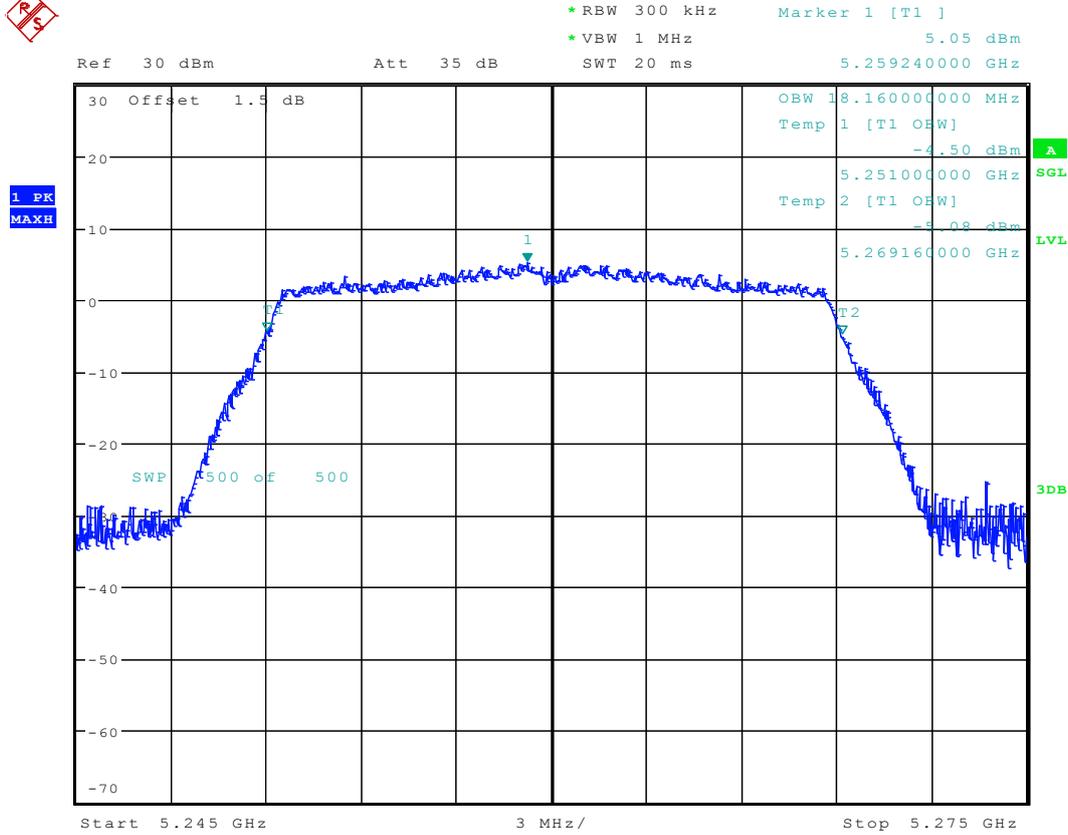
Date: 15.AUG.2016 12:19:42

### 5.26 11AC20\_48 Ant 1



Date: 15.AUG.2016 12:47:54

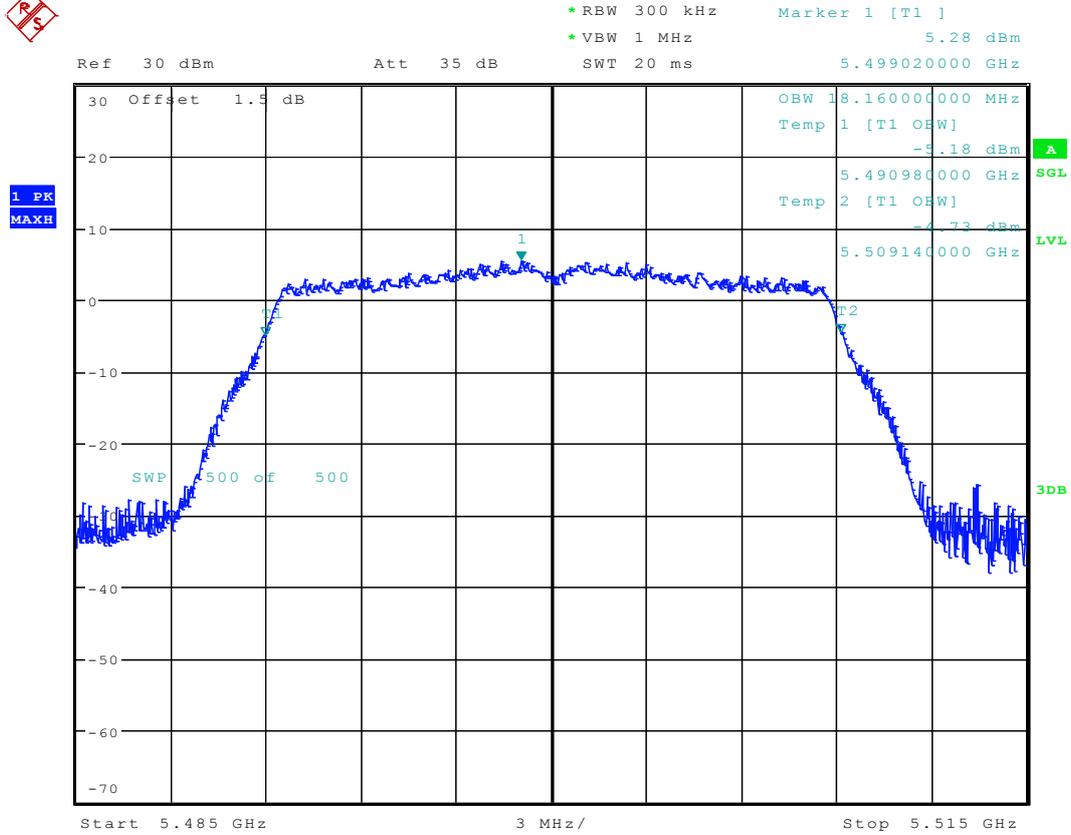
### 5.27 11AC20\_52 Ant 1



Date: 15.AUG.2016 12:53:00

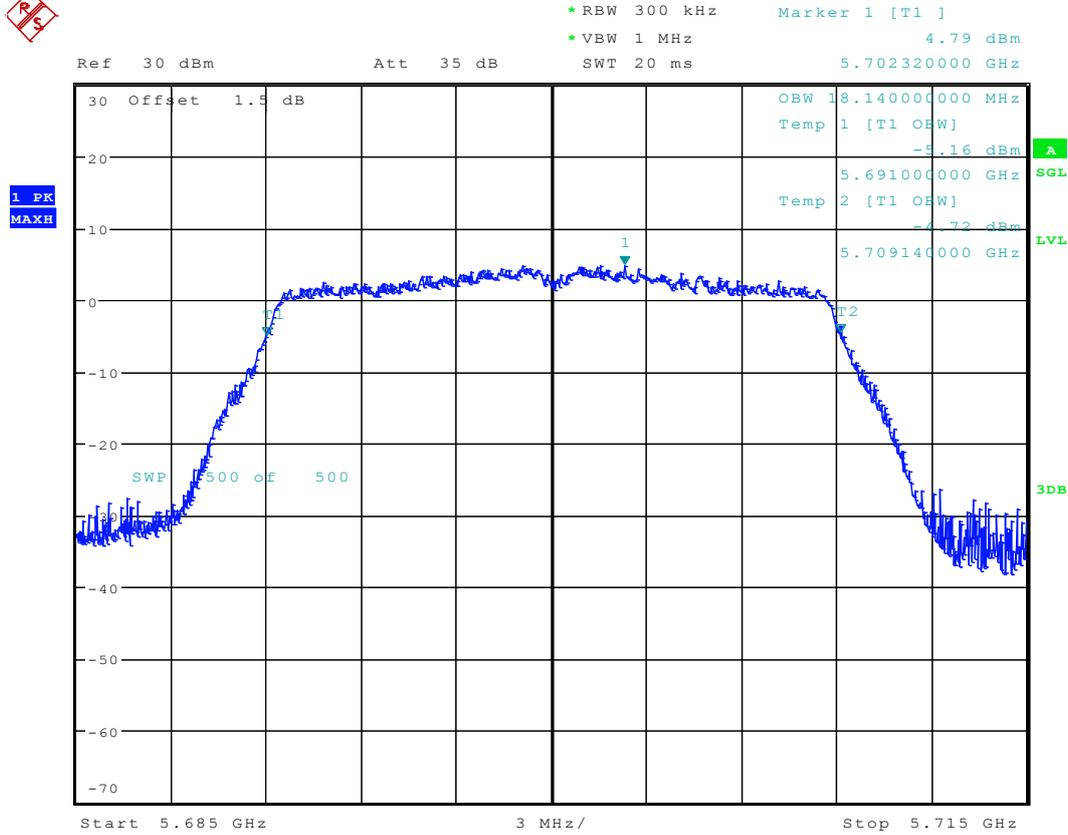


### 5.29 11AC20\_100 Ant 1



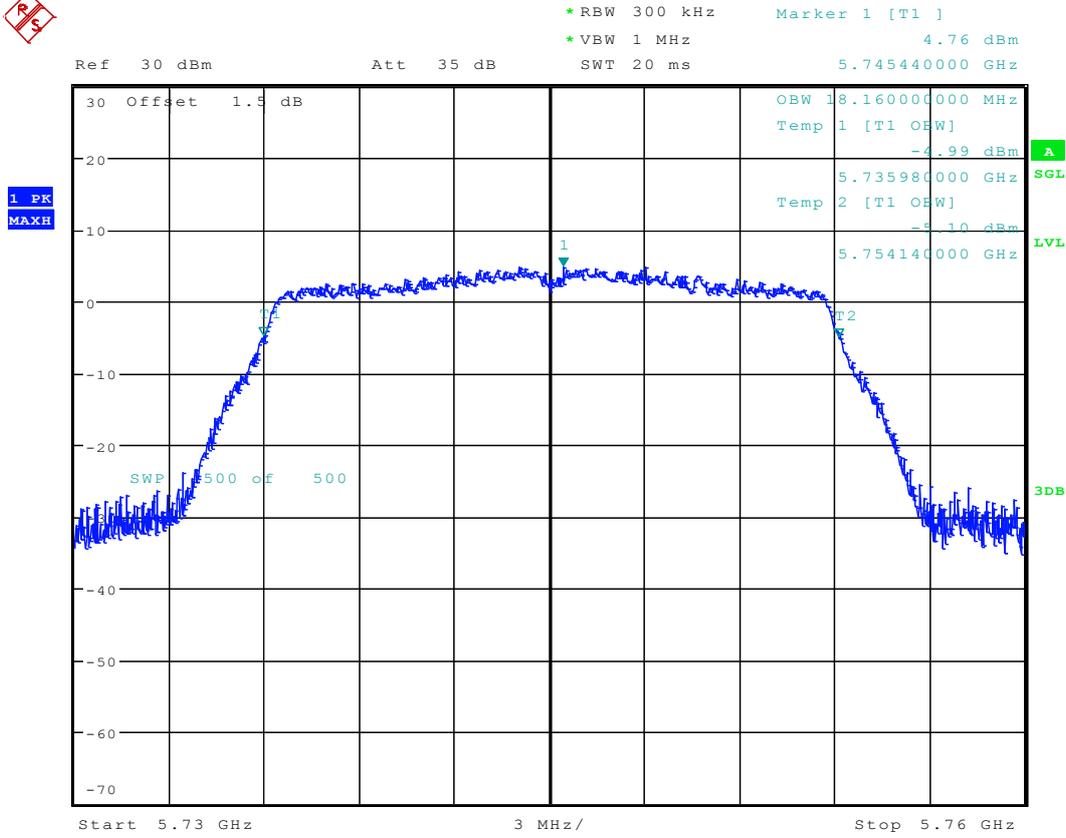
Date: 15.AUG.2016 12:59:27

### 5.30 11AC20\_140 Ant 1



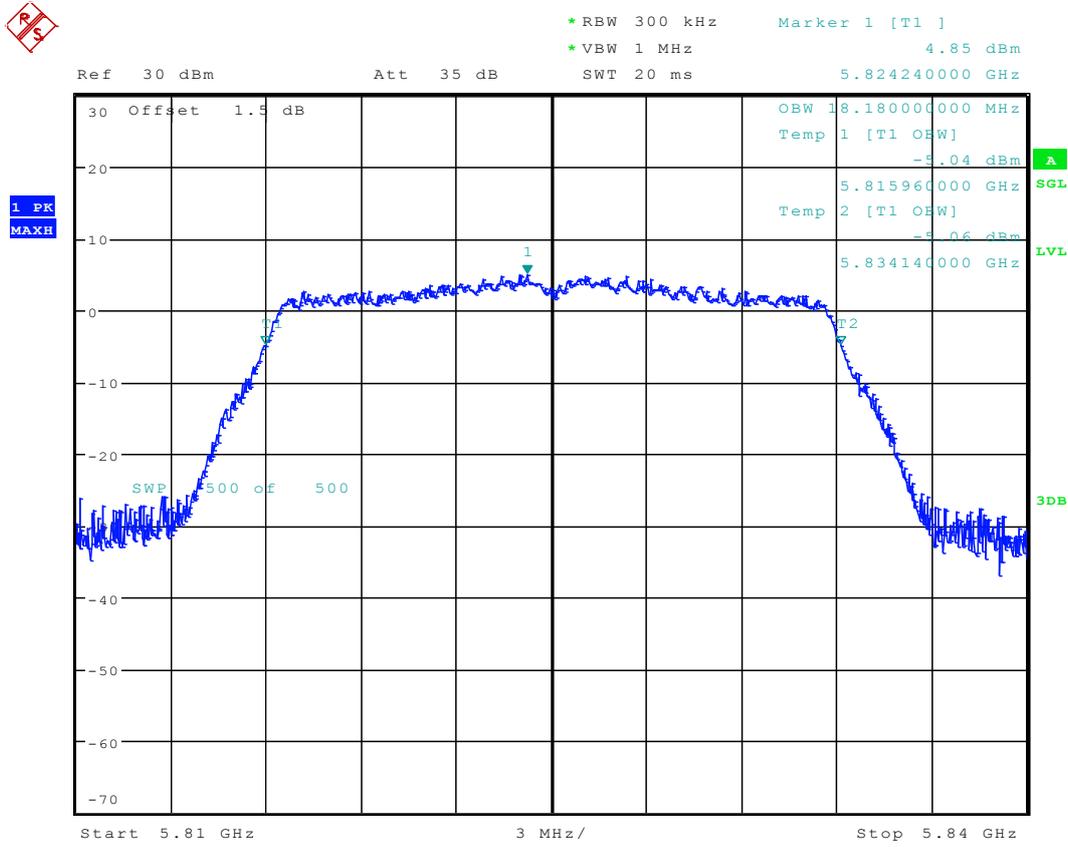
Date: 15.AUG.2016 13:02:32

### 5.31 11AC20\_149 Ant 1



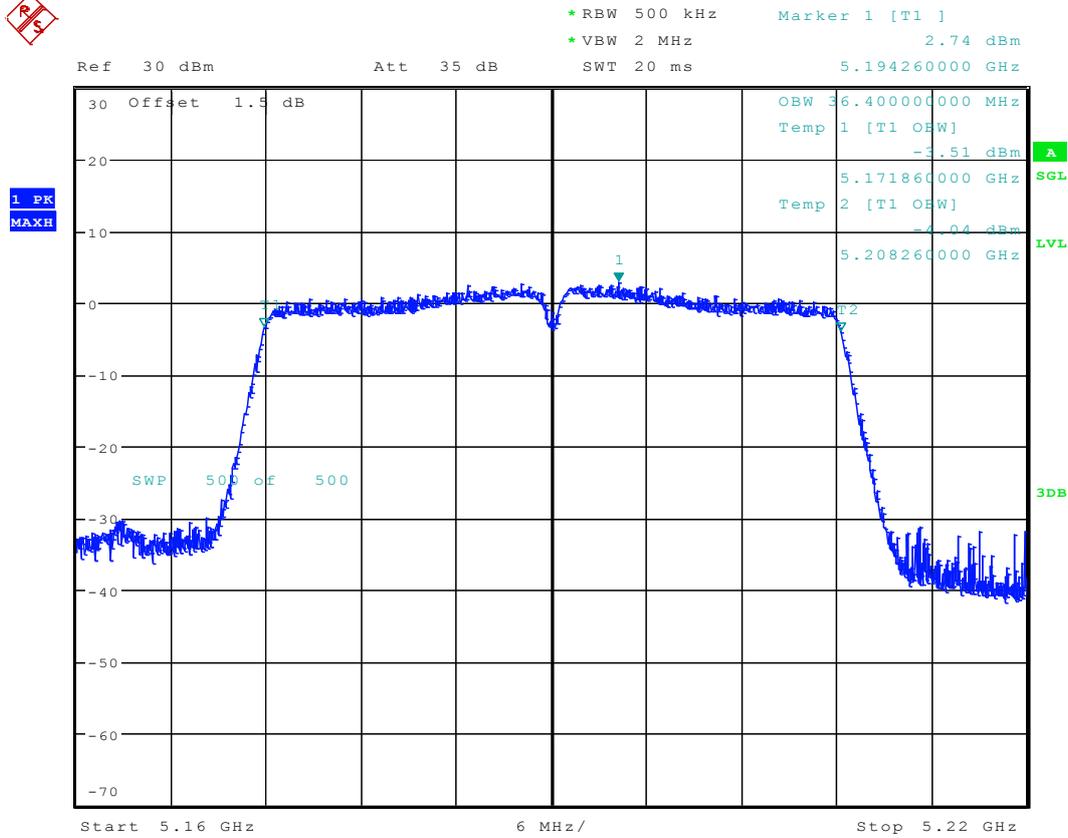
Date: 15.AUG.2016 13:06:04

### 5.32 11AC20\_165 Ant 1



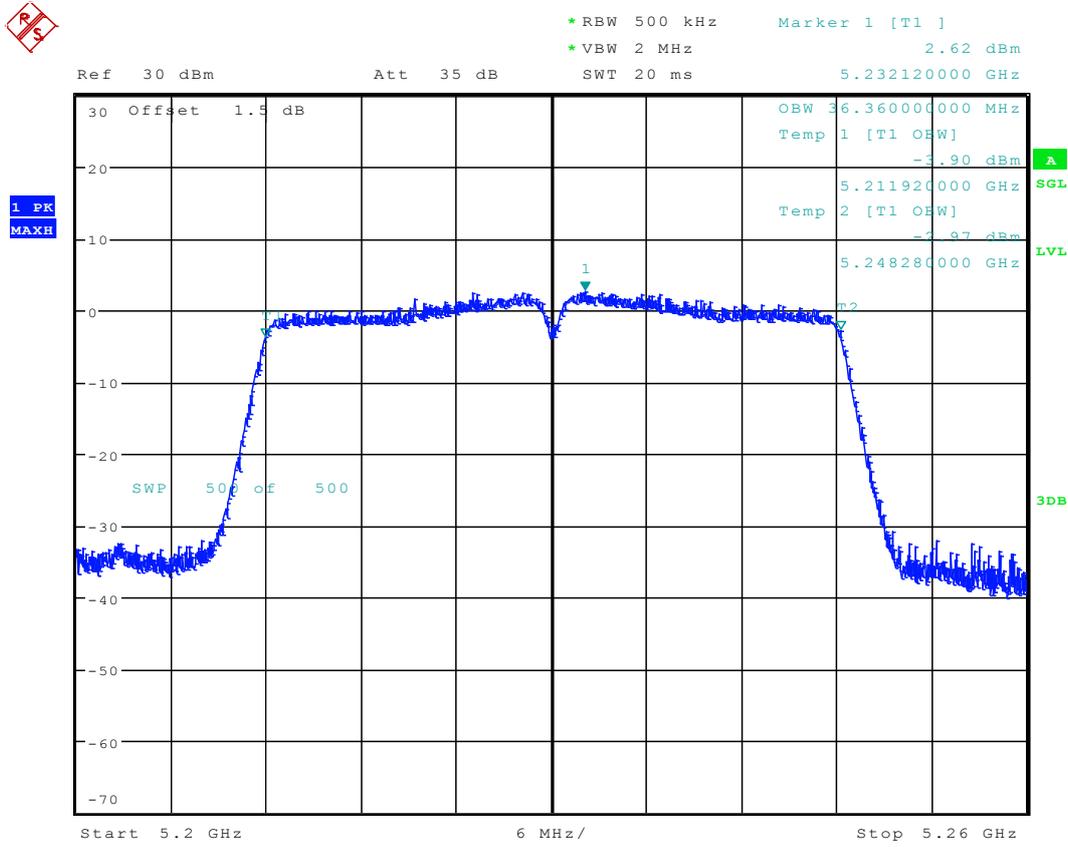
Date: 15.AUG.2016 13:09:50

### 5.33 11AC40\_38 Ant 1



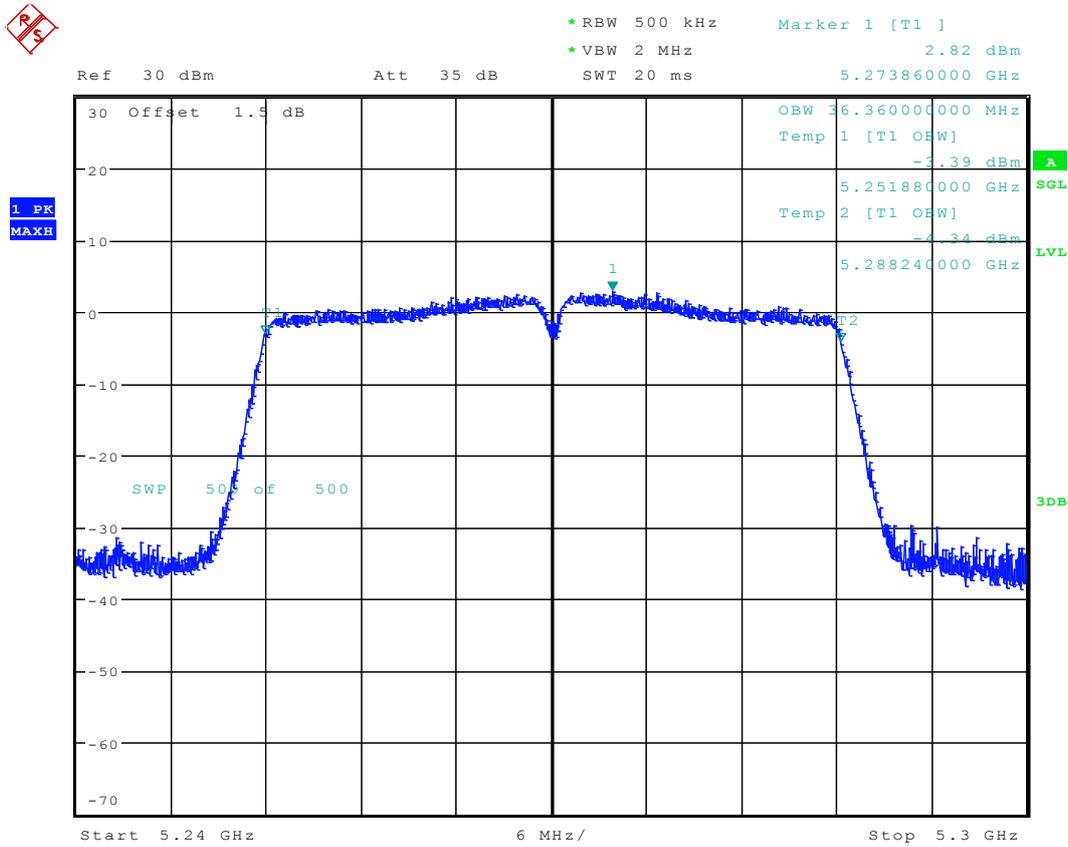
Date: 15.AUG.2016 13:27:50

### 5.34 11AC40\_46 Ant 1



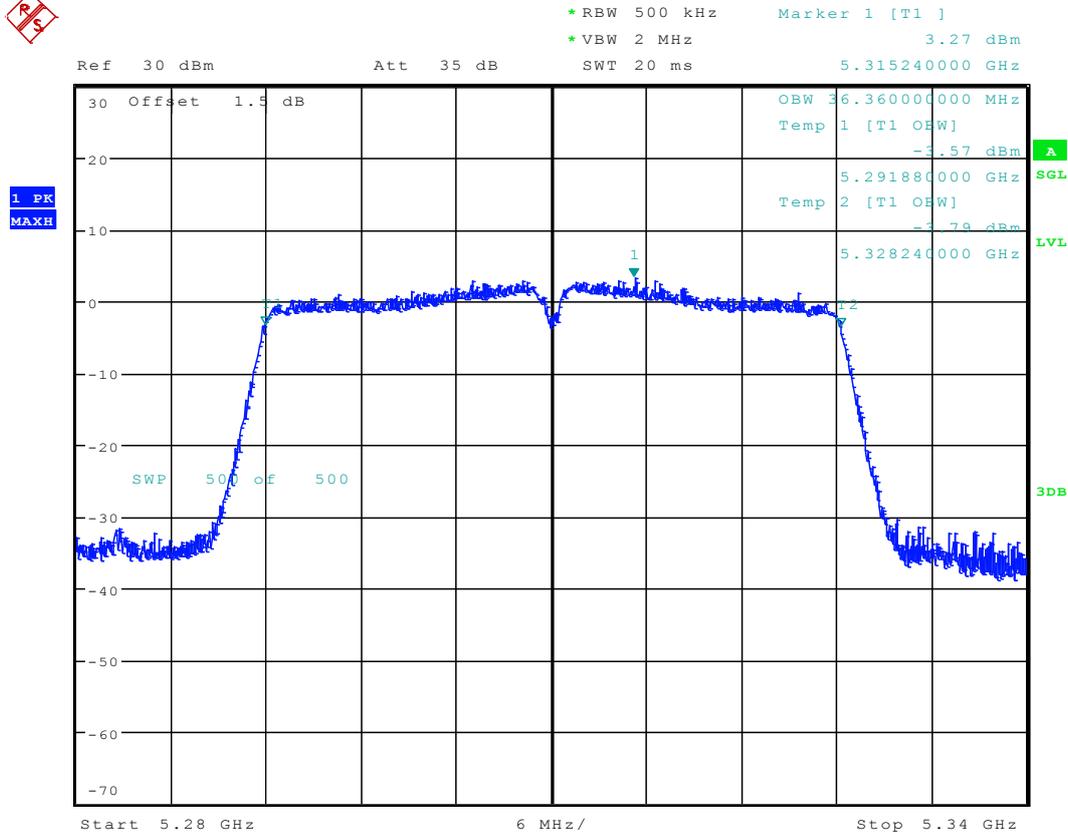
Date: 15.AUG.2016 13:30:59

## 5.35 11AC40\_54 Ant 1



Date: 15.AUG.2016 13:34:33

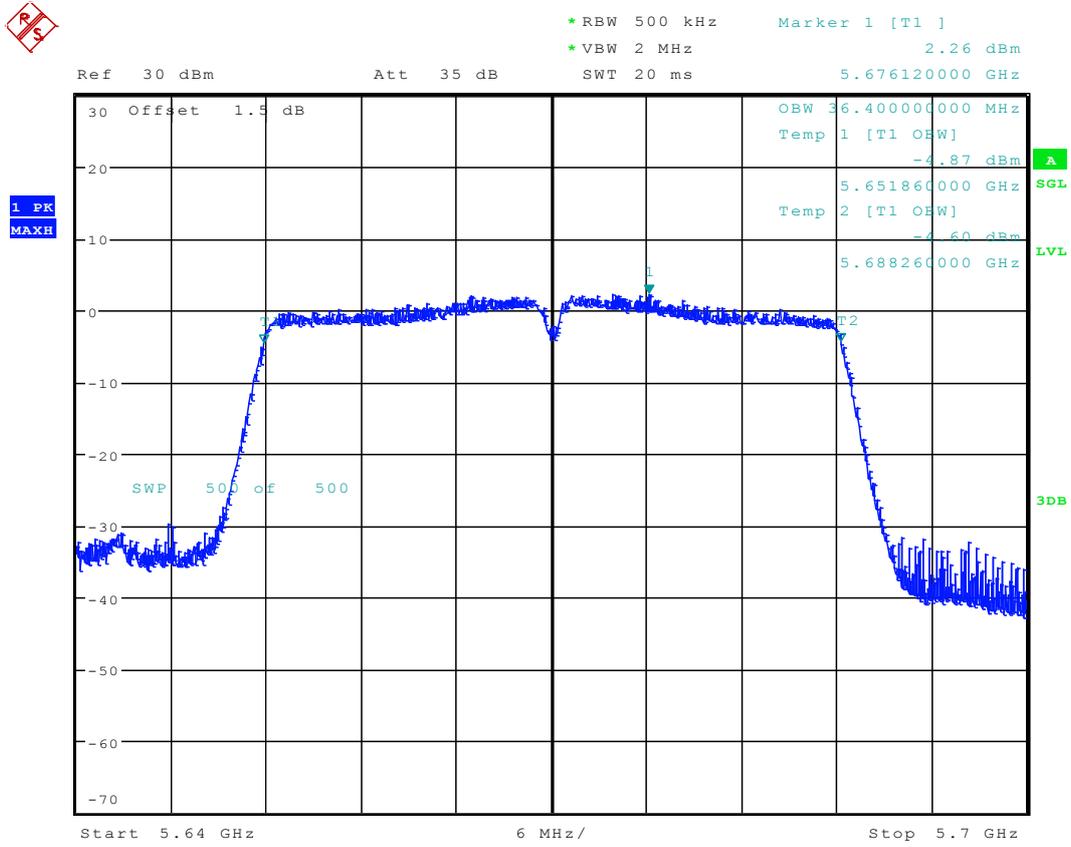
### 5.36 11AC40\_62 Ant 1



Date: 15.AUG.2016 13:39:44

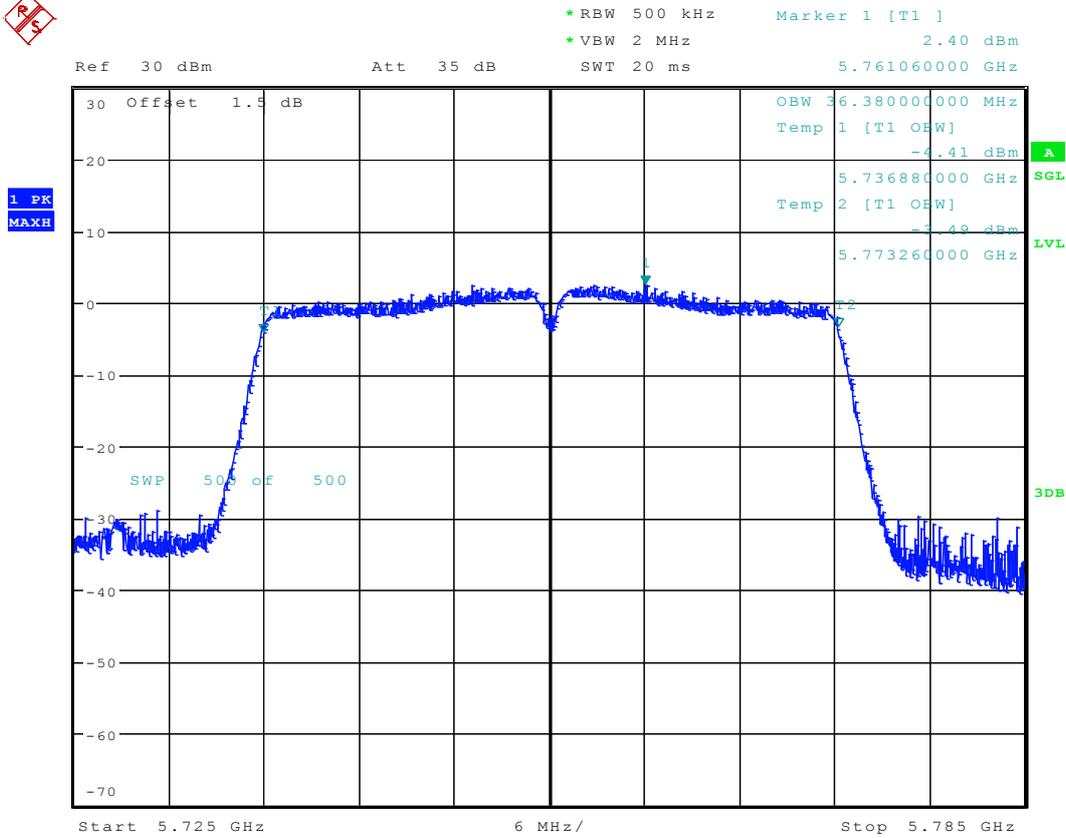


## 5.38 11AC40\_134 Ant 1



Date: 15.AUG.2016 13:25:02

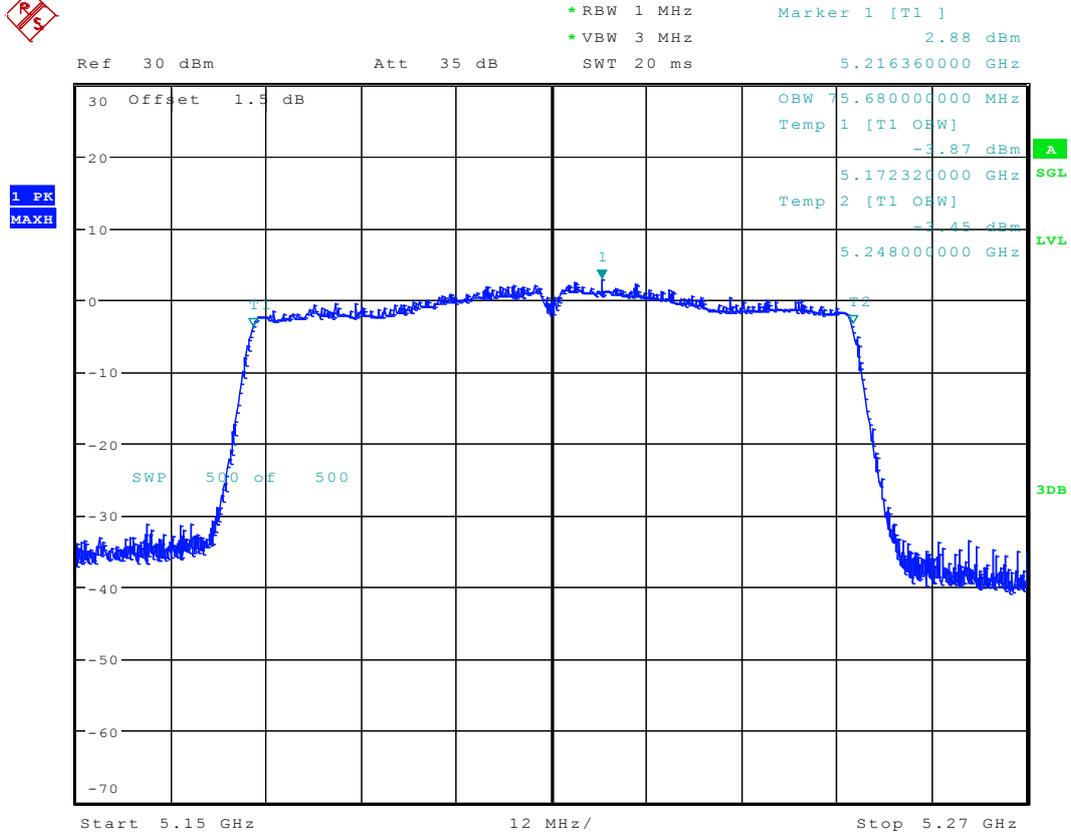
### 5.39 11AC40\_151 Ant 1



Date: 15.AUG.2016 13:14:05

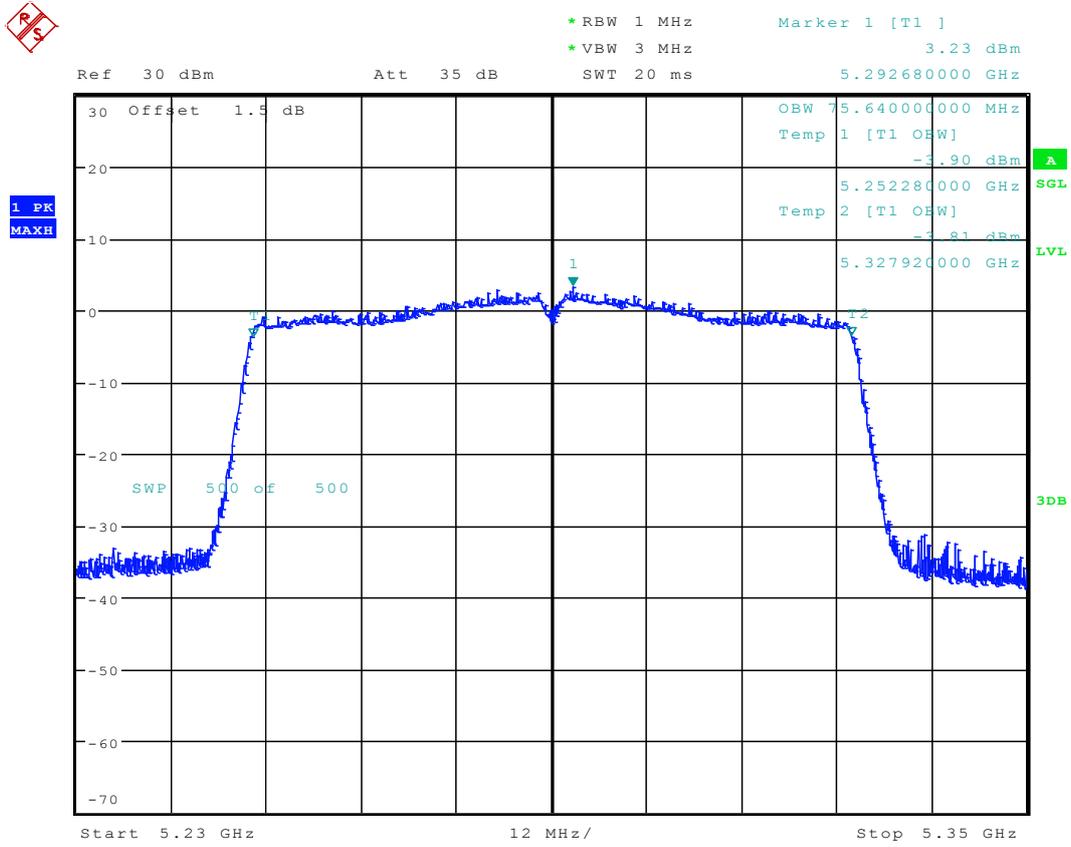


### 5.41 11AC80\_42 Ant 1



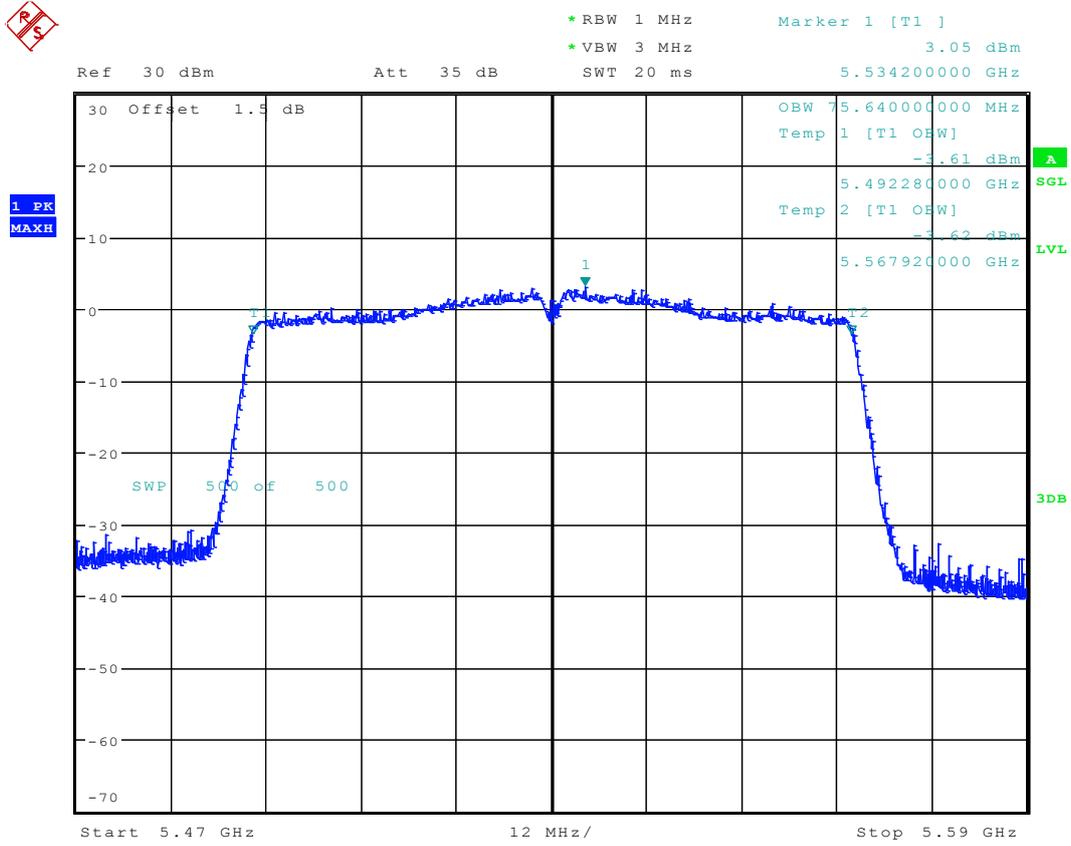
Date: 15.AUG.2016 13:44:26

## 5.42 11AC80\_58 Ant 1



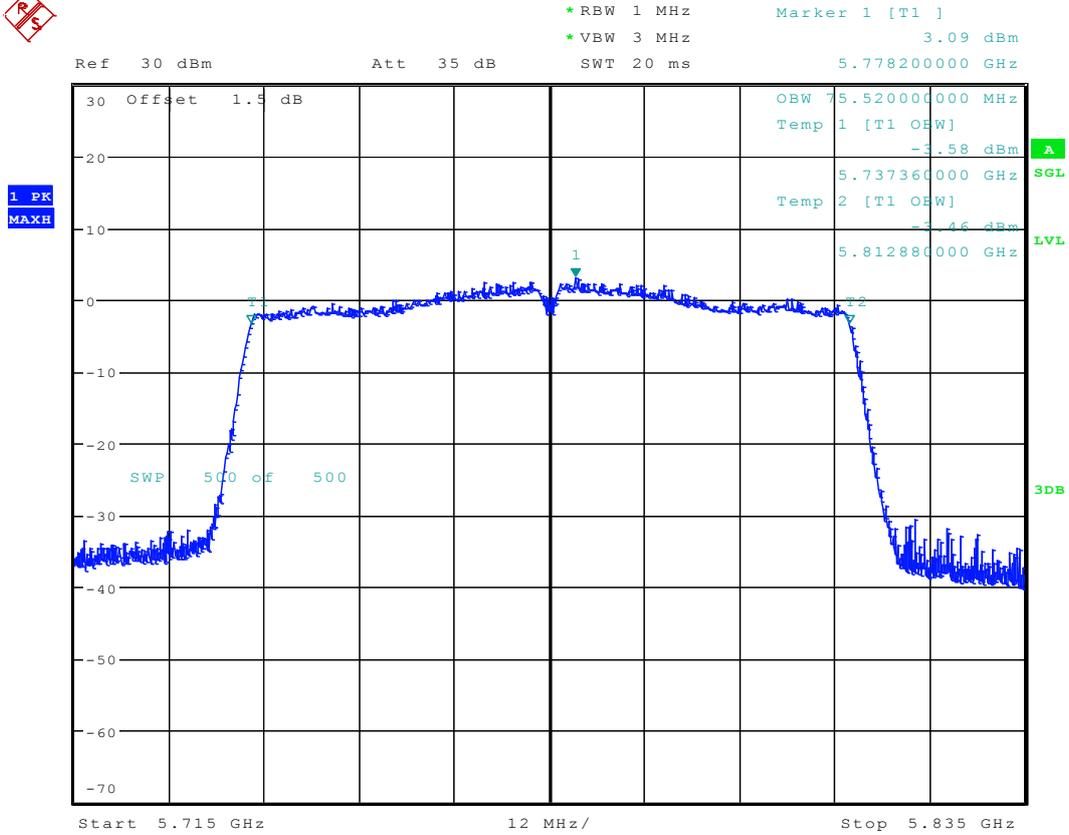
Date: 15.AUG.2016 13:52:35

## 5.43 11AC80\_106 Ant 1



Date: 15.AUG.2016 13:56:38

### 5.44 11AC80\_155 Ant 1



Date: 15.AUG.2016 14:00:15



# Appendix C: Duty Cycle

## 6 Part I - Test Results

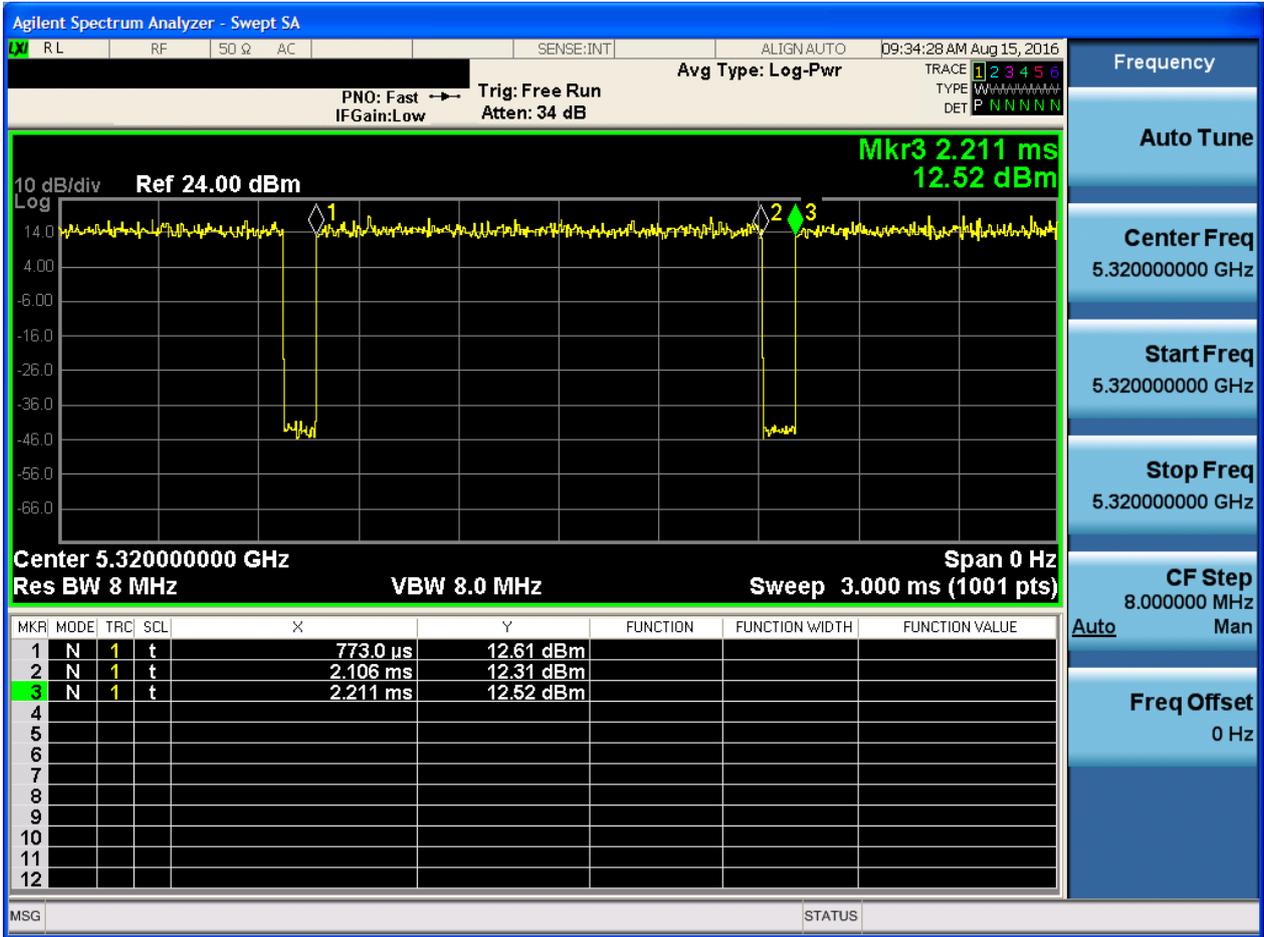
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Duty cycle [%]
11A	36,	5180	Ant 1	93
11A	48	5240	Ant 1	93
11A	52	5260	Ant 1	93
11A	64	5320	Ant 1	93
11A	100	5500	Ant 1	93
11A	140	5700	Ant 1	93
11A	149	5745	Ant 1	93
11A	165	5825	Ant 1	93
11N20	36	5180	Ant 1	93
11N20	48	5240	Ant 1	93
11N20	52	5260	Ant 1	93
11N20	64	5320	Ant 1	93
11N20	100	5500	Ant 1	93
11N20	140	5700	Ant 1	93
11N20	149	5745	Ant 1	93
11N20	165	5825	Ant 1	93
11N40	38	5190	Ant 1	87
11N40	46	5230	Ant 1	87
11N40	54	5270	Ant 1	87
11N40	62	5310	Ant 1	87
11N40	102	5510	Ant 1	87
11N40	134	5670	Ant 1	87
11N40	151	5755	Ant 1	87
11N40	159	5795	Ant 1	87
11AC20	36	5180	Ant 1	93
11AC20	48	5240	Ant 1	93
11AC20	52	5260	Ant 1	93
11AC20	64	5320	Ant 1	93
11AC20	100	5500	Ant 1	93
11AC20	140	5700	Ant 1	93
11AC20	149	5745	Ant 1	93
11AC20	165	5825	Ant 1	93
11AC40	38	5190	Ant 1	93

11AC40	46	5230	Ant 1	93
11AC40	54	5270	Ant 1	93
11AC40	62	5310	Ant 1	93
11AC40	102	5510	Ant 1	93
11AC40	134	5670	Ant 1	93
11AC40	151	5755	Ant 1	93
11AC40	159	5795	Ant 1	93
11AC80	42	5210	Ant 1	86
11AC80	58	5290	Ant 1	86
11AC80	106	5530	Ant 1	86
11AC80	155	5775	Ant 1	86



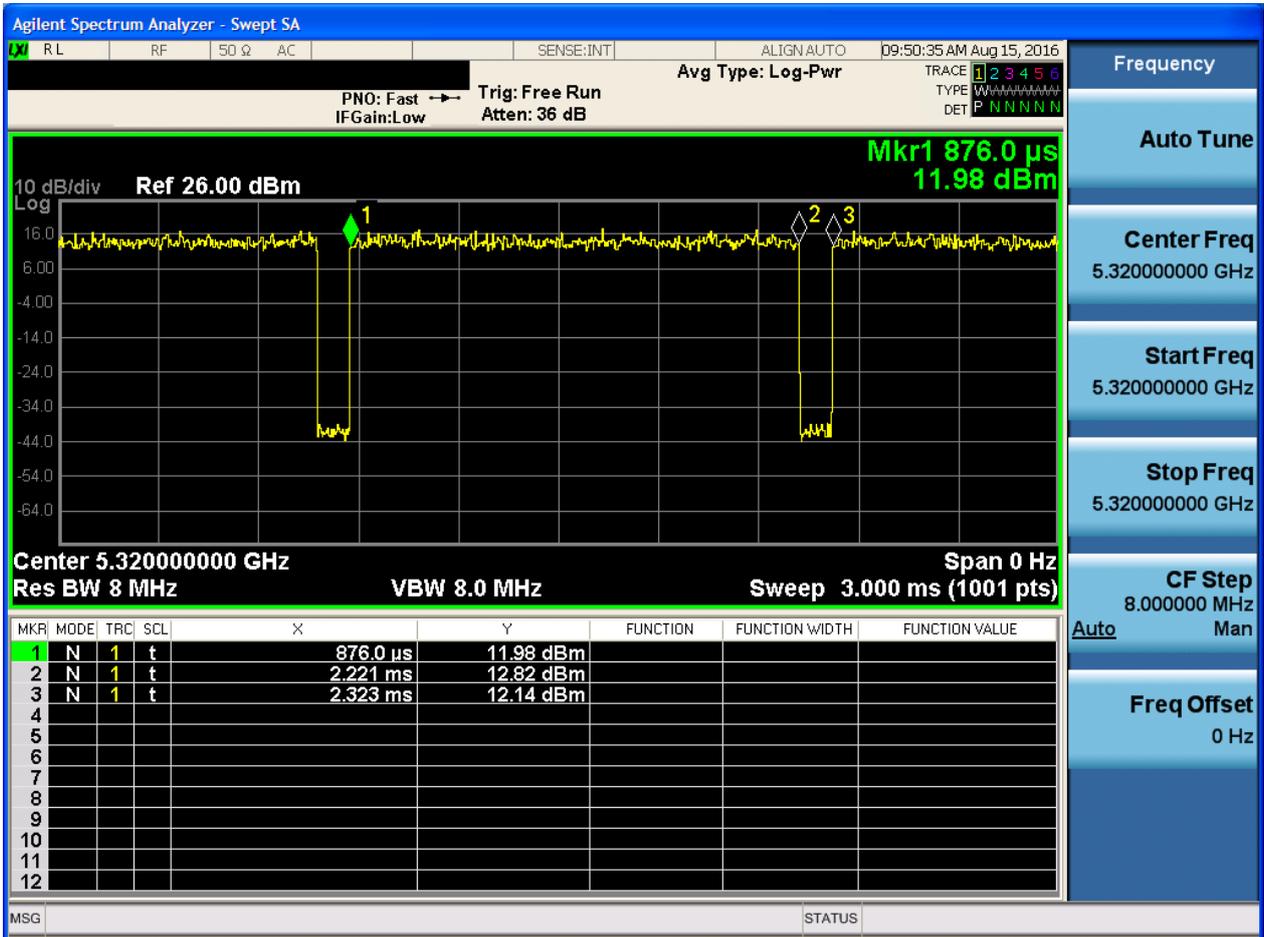


7.2 11n20



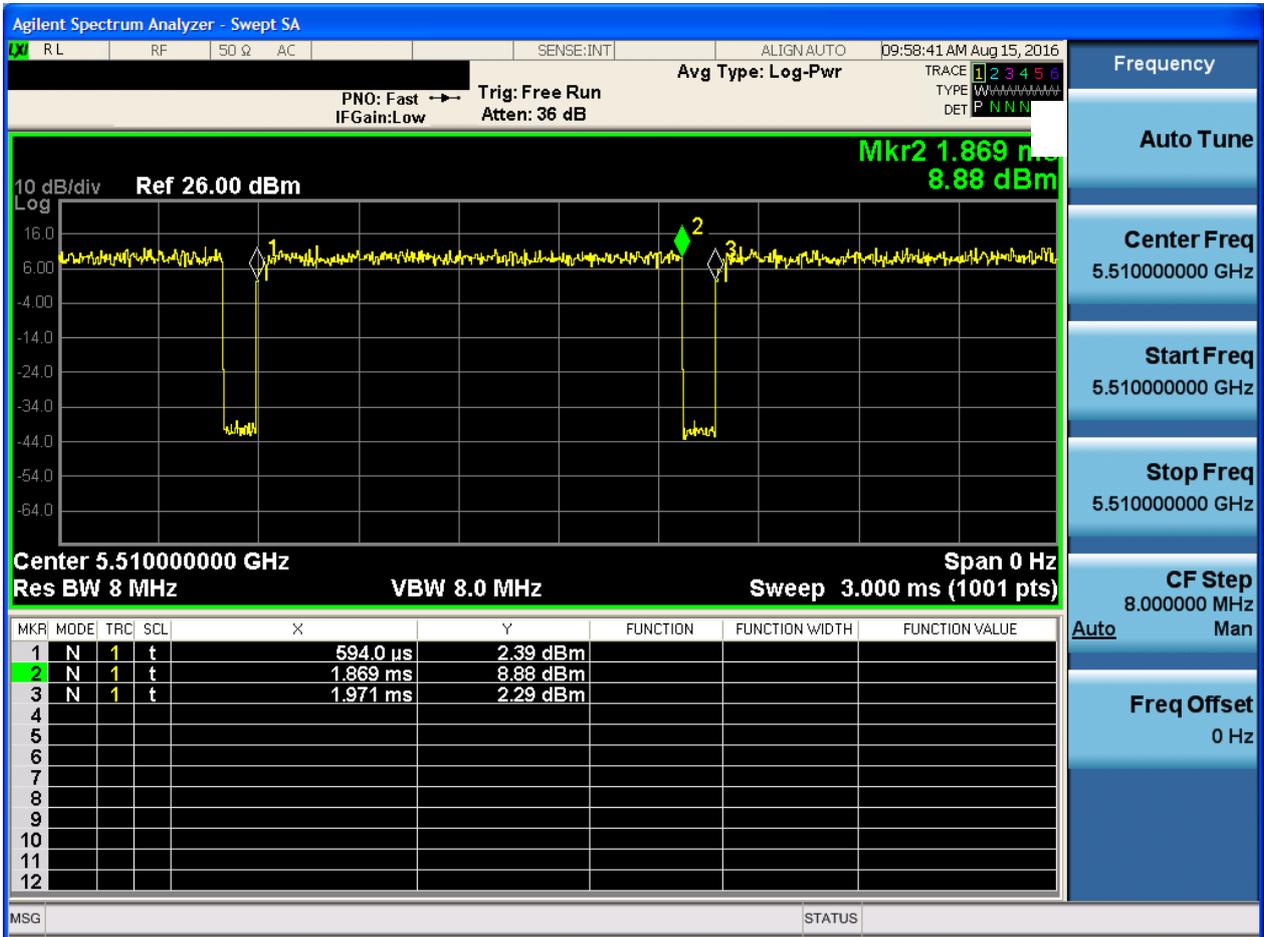


7.4 11ac20





7.5 11ac40







# Appendix D: Maximum Conducted Output Power



8 Result Table

Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A	36	5180	Ant 1	12.89	pass
	48	5240	Ant 1	12.65	pass
	52	5260	Ant 1	12.89	pass
	64	5320	Ant 1	12.98	pass
	100	5500	Ant 1	13.01	pass
	140	5700	Ant 1	12.72	pass
	149	5745	Ant 1	12.66	pass
	165	5825	Ant 1	12.72	pass
11N20	36	5180	Ant 1	12.80	pass
	48	5240	Ant 1	12.26	pass
	52	5260	Ant 1	12.67	pass
	64	5320	Ant 1	13.02	pass
	100	5500	Ant 1	13.12	pass
	140	5700	Ant 1	13.19	pass
	149	5745	Ant 1	13.34	pass
	165	5825	Ant 1	12.96	pass
11N40	38	5190	Ant 1	11.91	pass
	46	5230	Ant 1	11.89	pass
	54	5270	Ant 1	11.86	pass
	62	5310	Ant 1	11.89	pass
	102	5510	Ant 1	12.21	pass
	134	5670	Ant 1	12.08	pass
	151	5755	Ant 1	12.09	pass
	159	5795	Ant 1	12.38	pass
11AC20	36	5180	Ant 1	12.79	pass
	48	5240	Ant 1	12.21	pass
	52	5260	Ant 1	12.43	pass
	64	5320	Ant 1	13.03	pass
	100	5500	Ant 1	13.06	pass
	140	5700	Ant 1	13.23	pass
	149	5745	Ant 1	13.39	pass
	165	5825	Ant 1	13.06	pass
11AC40	38	5190	Ant 1	11.12	pass
	46	5230	Ant 1	10.92	pass



	54	5270	Ant 1	11.11	pass
	62	5310	Ant 1	11.31	pass
	102	5510	Ant 1	11.31	pass
	134	5670	Ant 1	11.13	pass
	151	5755	Ant 1	11.57	pass
	159	5795	Ant 1	11.53	pass
11AC80	42	5210	Ant 1	10.06	pass
	58	5290	Ant 1	10.01	pass
	106	5530	Ant 1	10.11	pass
	155	5775	Ant 1	10.24	pass



# Appendix E: Peak Power Spectral Density Level



## 9 Result Table

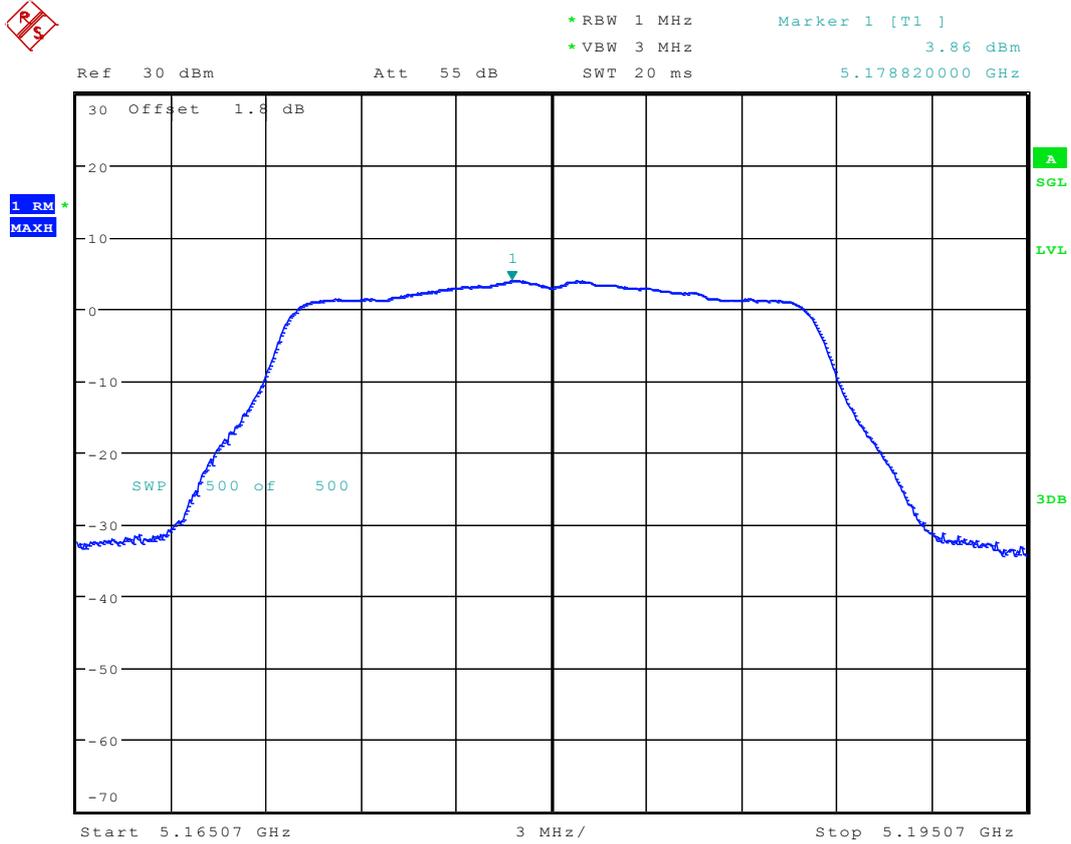
Test Mode	Test Channel	Frequency [MHz]	Antenna Port	Meas. Level (Cond.) [dBm]	Verdict
11A	36	5180	Ant 1	3.86	pass
	48	5240	Ant 1	3.88	pass
	52	5260	Ant 1	4.22	pass
	64	5320	Ant 1	4.06	pass
	100	5500	Ant 1	4.19	pass
	140	5700	Ant 1	3.52	pass
	149	5745	Ant 1	3.88	pass
	165	5825	Ant 1	3.90	pass
11N20	36	5180	Ant 1	3.59	pass
	48	5240	Ant 1	3.32	pass
	52	5260	Ant 1	3.53	pass
	64	5320	Ant 1	3.24	pass
	100	5500	Ant 1	3.58	pass
	140	5700	Ant 1	3.02	pass
	149	5745	Ant 1	3.16	pass
	165	5825	Ant 1	3.43	pass
11N40	38	5190	Ant 1	-0.45	pass
	46	5230	Ant 1	-0.81	pass
	54	5270	Ant 1	-0.16	pass
	62	5310	Ant 1	-0.36	pass
	102	5510	Ant 1	0	pass
	134	5670	Ant 1	-0.52	pass
	151	5755	Ant 1	-0.43	pass
	159	5795	Ant 1	-0.66	pass
11AC20	36	5180	Ant 1	2.33	pass
	48	5240	Ant 1	2.29	pass
	52	5260	Ant 1	2.98	pass
	64	5320	Ant 1	2.45	pass
	100	5500	Ant 1	2.85	pass
	140	5700	Ant 1	2.34	pass
	149	5745	Ant 1	2.41	pass
	165	5825	Ant 1	2.26	pass
11AC40	38	5190	Ant 1	-1.81	pass
	46	5230	Ant 1	-1.84	pass



	54	5270	Ant 1	-1.60	pass
	62	5310	Ant 1	-1.59	pass
	102	5510	Ant 1	-1.64	pass
	134	5670	Ant 1	-2.16	pass
	151	5755	Ant 1	-2.03	pass
	159	5795	Ant 1	-1.73	pass
11AC80	42	5210	Ant 1	-5.68	pass
	58	5290	Ant 1	-5.21	pass
	106	5530	Ant 1	-4.94	pass
	155	5775	Ant 1	-5.13	pass

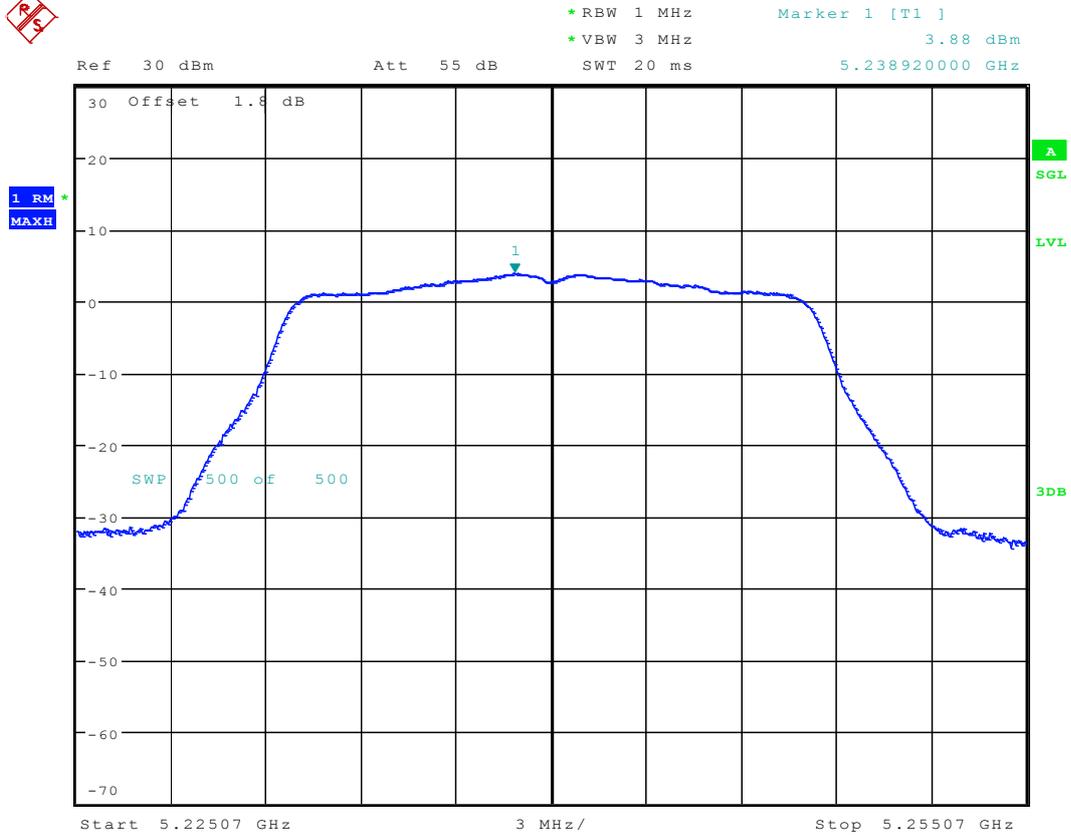
## 10 Test Plot

### 10.1 11A\_36 Ant 1



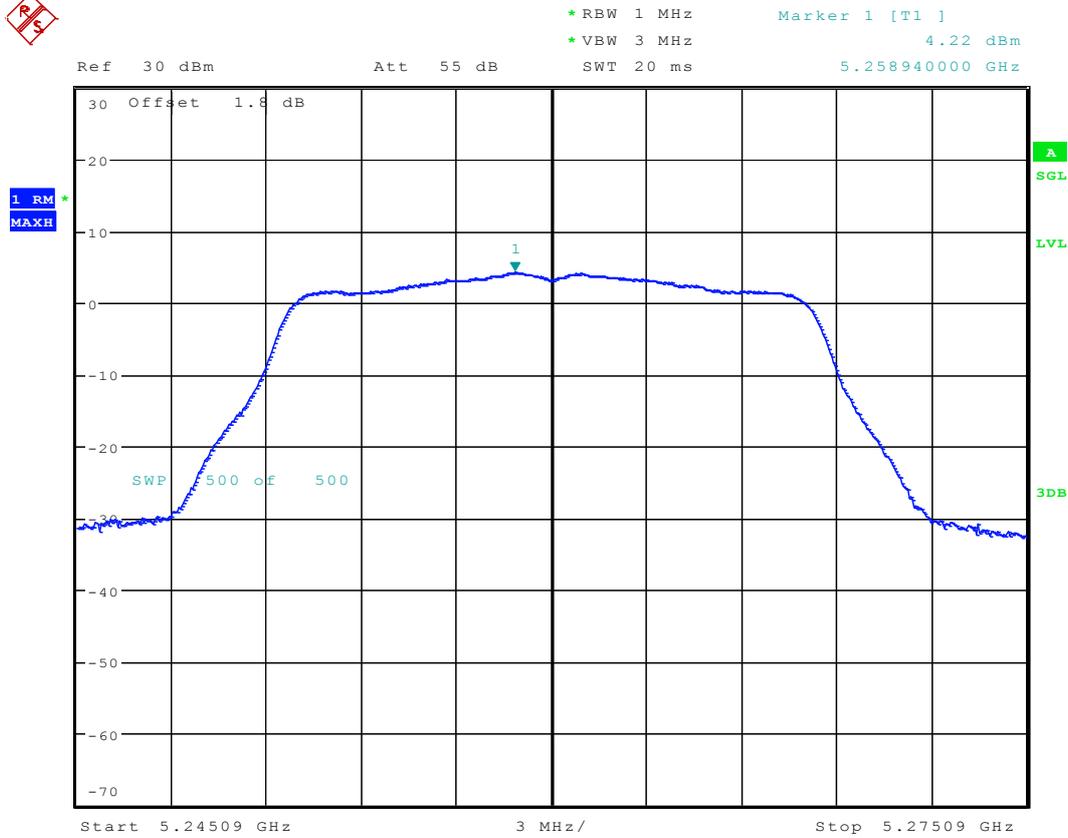
Date: 15.AUG.2016 07:43:25

### 10.2 11A\_48 Ant 1



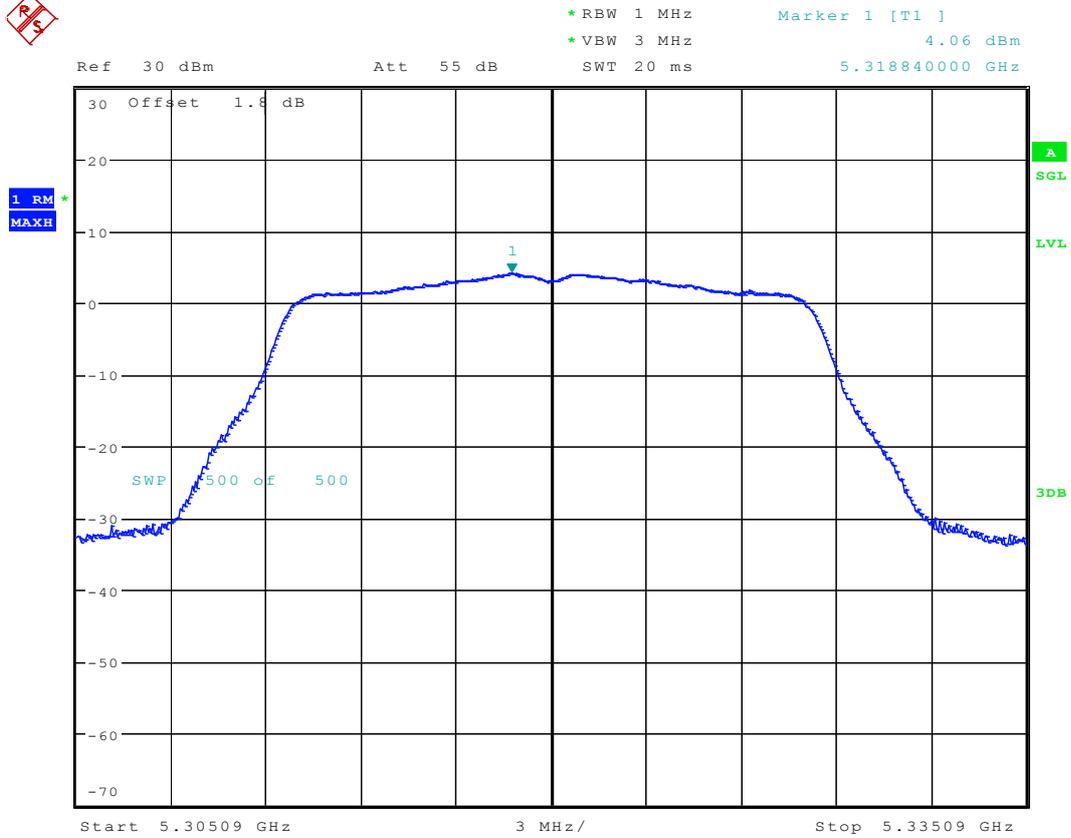
Date: 15.AUG.2016 07:47:03

### 10.3 11A\_52 Ant 1



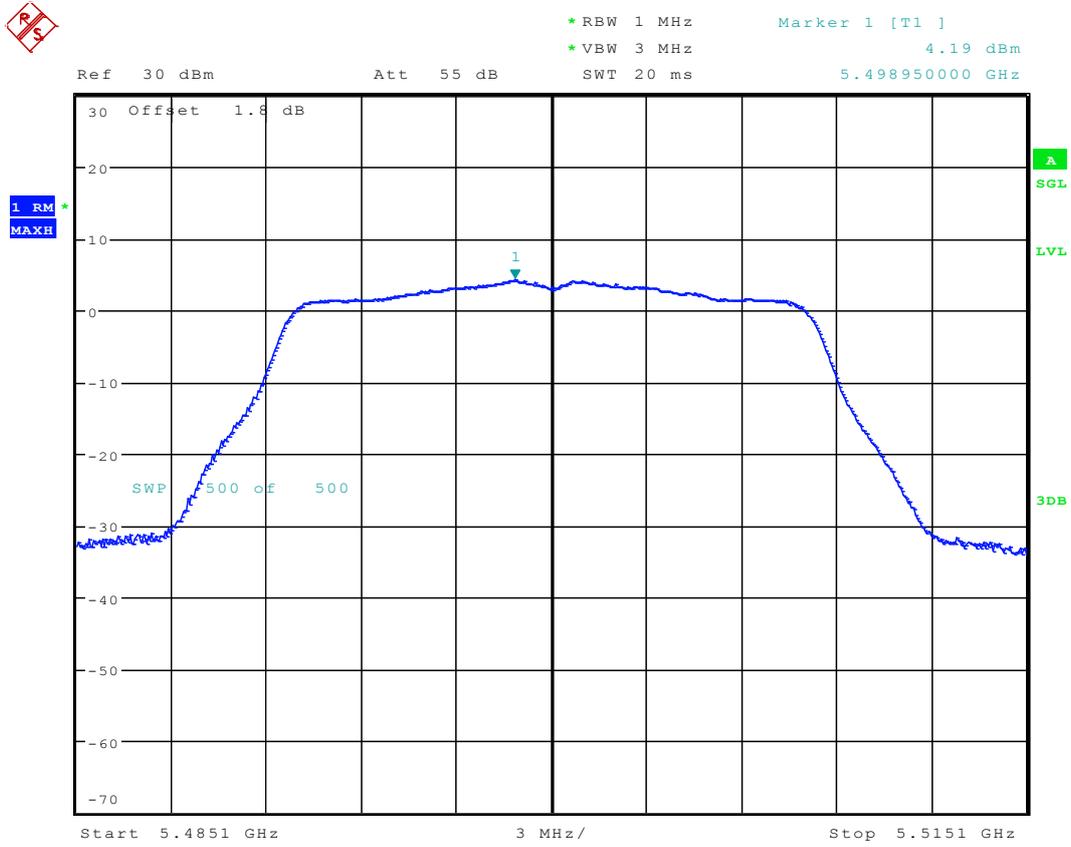
Date: 15.AUG.2016 07:50:46

### 10.4 11A\_64 Ant 1



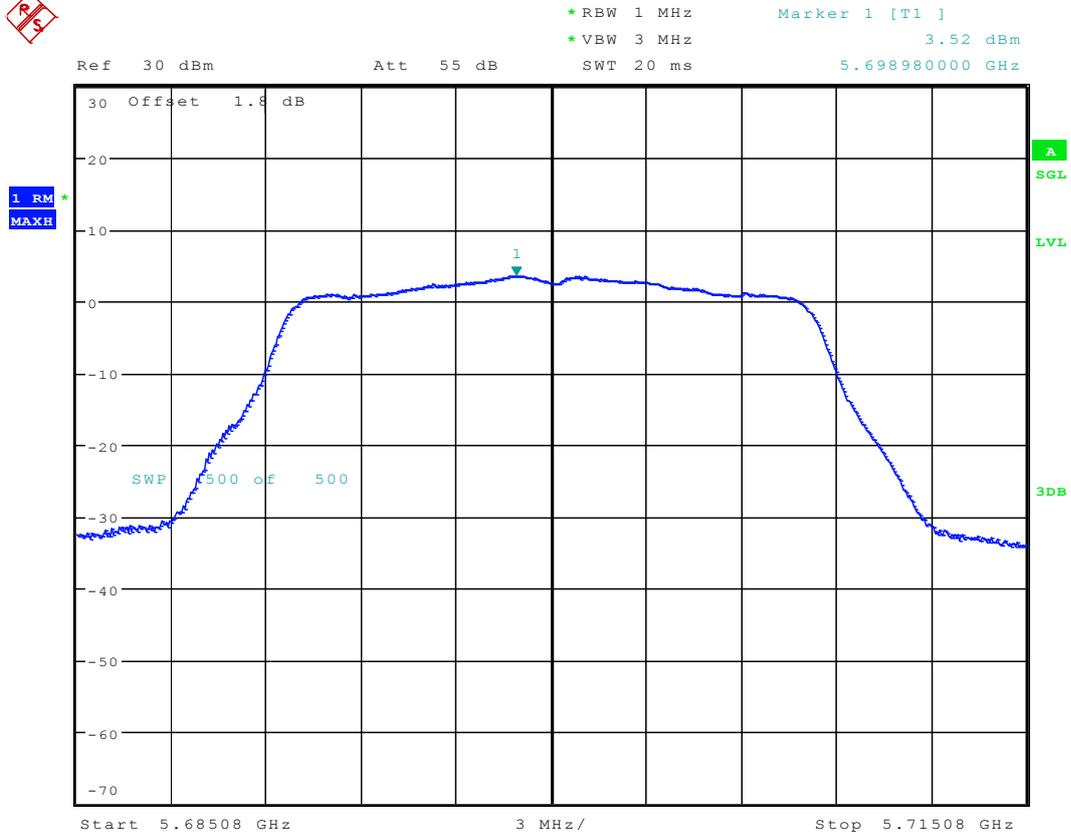
Date: 15.AUG.2016 08:25:40

### 10.5 11A\_100 Ant 1



Date: 15.AUG.2016 08:29:15

### 10.6 11A\_140 Ant 1

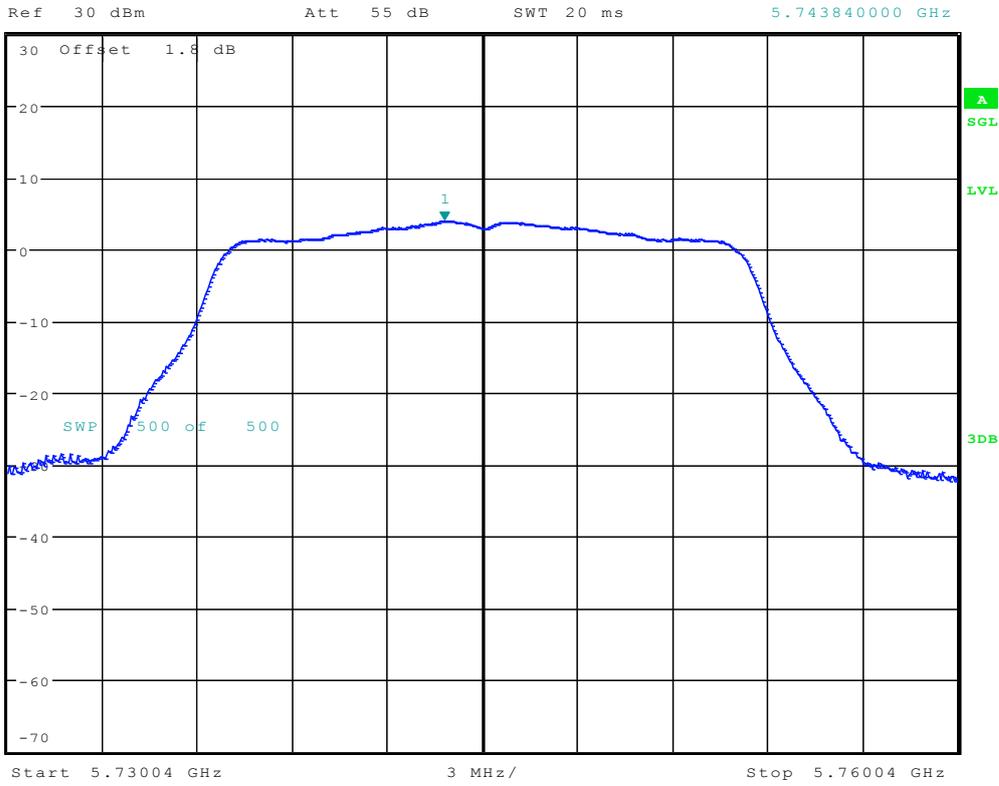


Date: 15.AUG.2016 08:32:16

### 10.7 11A\_149 Ant 1

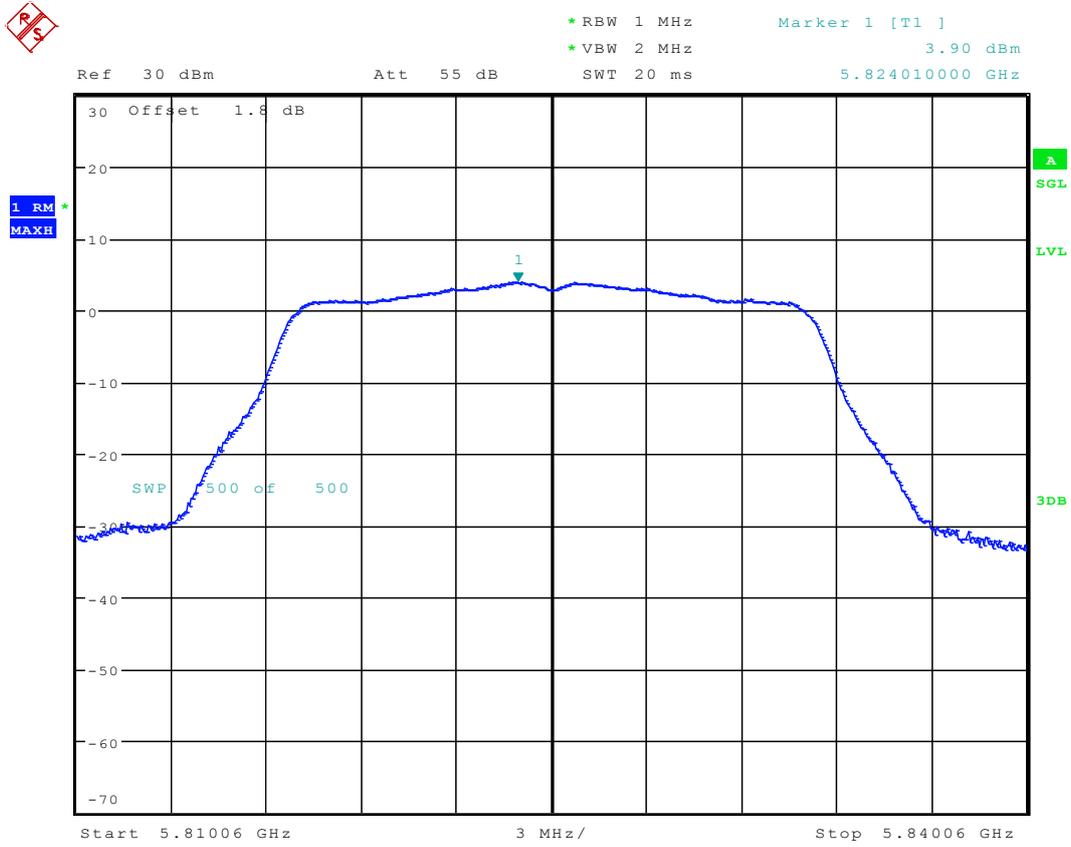


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 2 MHz      3.88 dBm  
SWT 20 ms      5.743840000 GHz



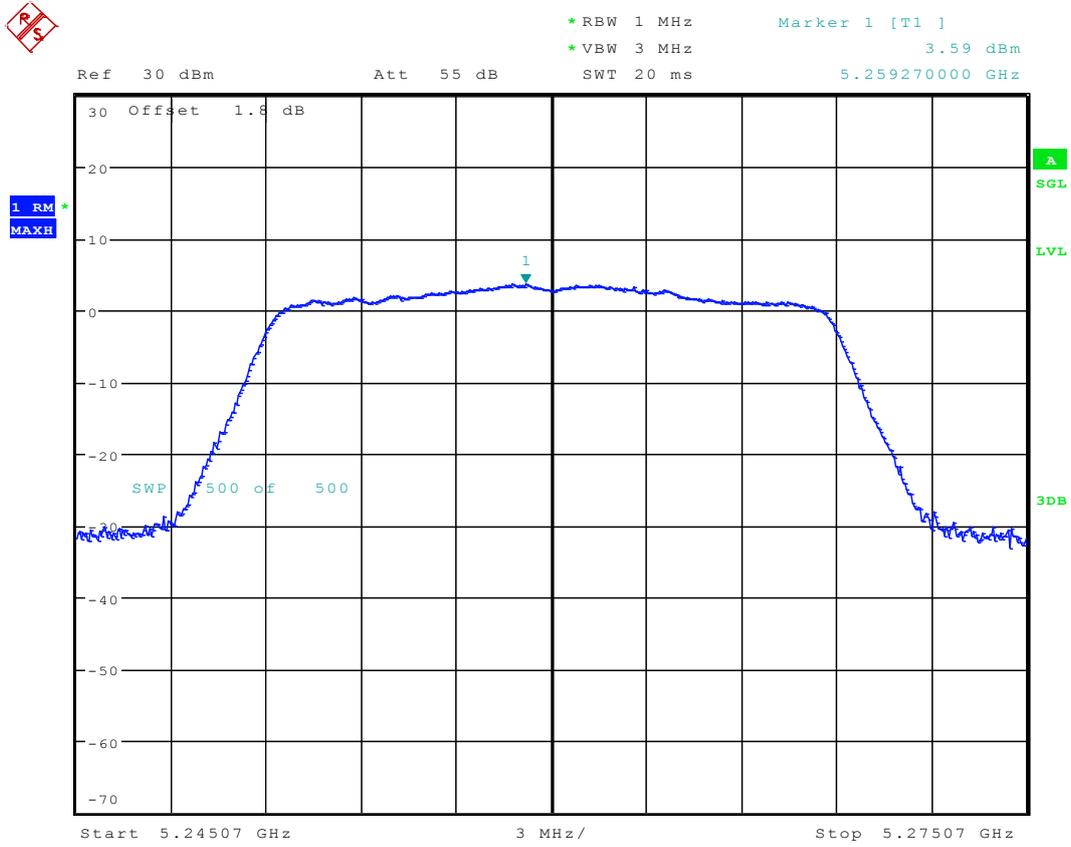
Date: 15.AUG.2016 08:36:16

### 10.8 11A\_165 Ant 1



Date: 15.AUG.2016 10:15:22

## 10.9 11N20\_36 Ant 1

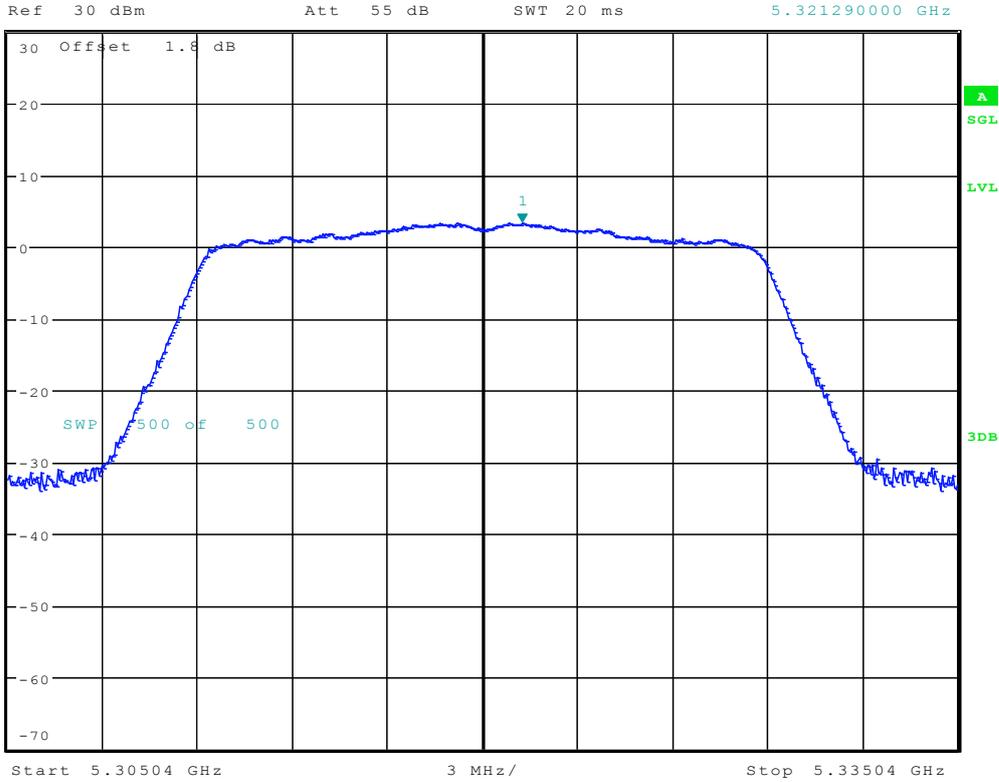


Date: 15.AUG.2016 10:59:28

### 10.10 11N20\_48 Ant 1

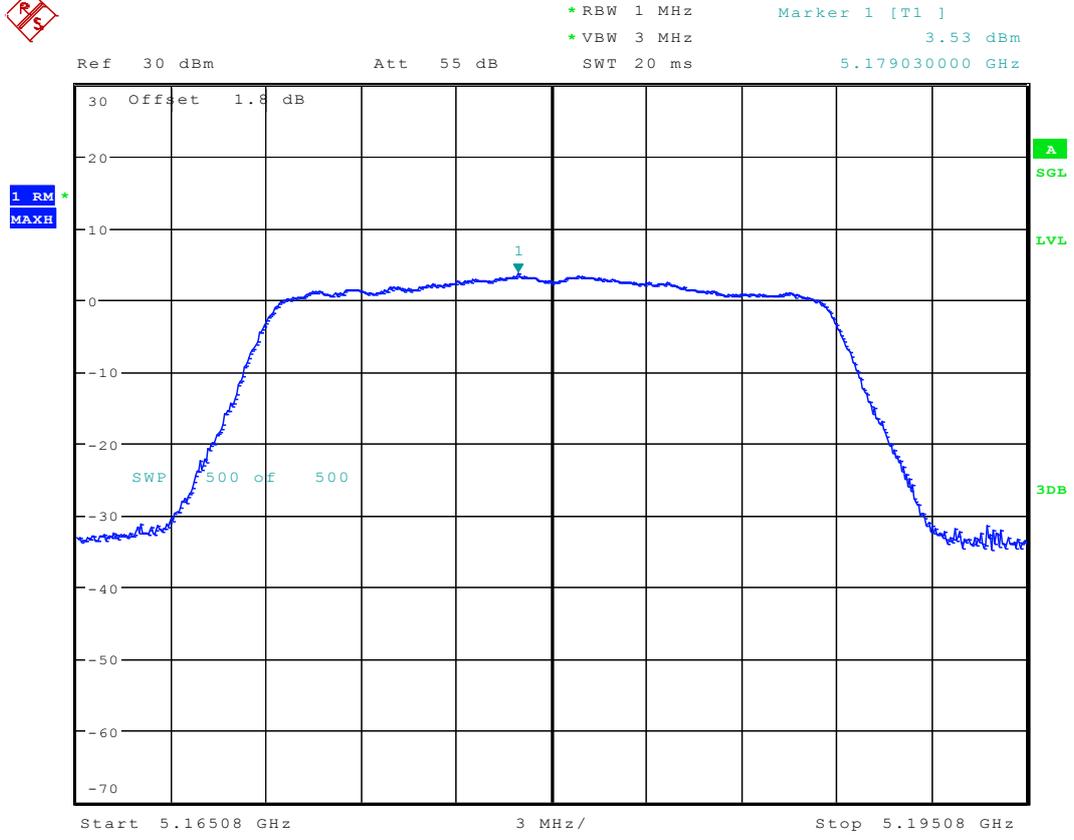


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 3 MHz      3.32 dBm  
SWT 20 ms      5.321290000 GHz



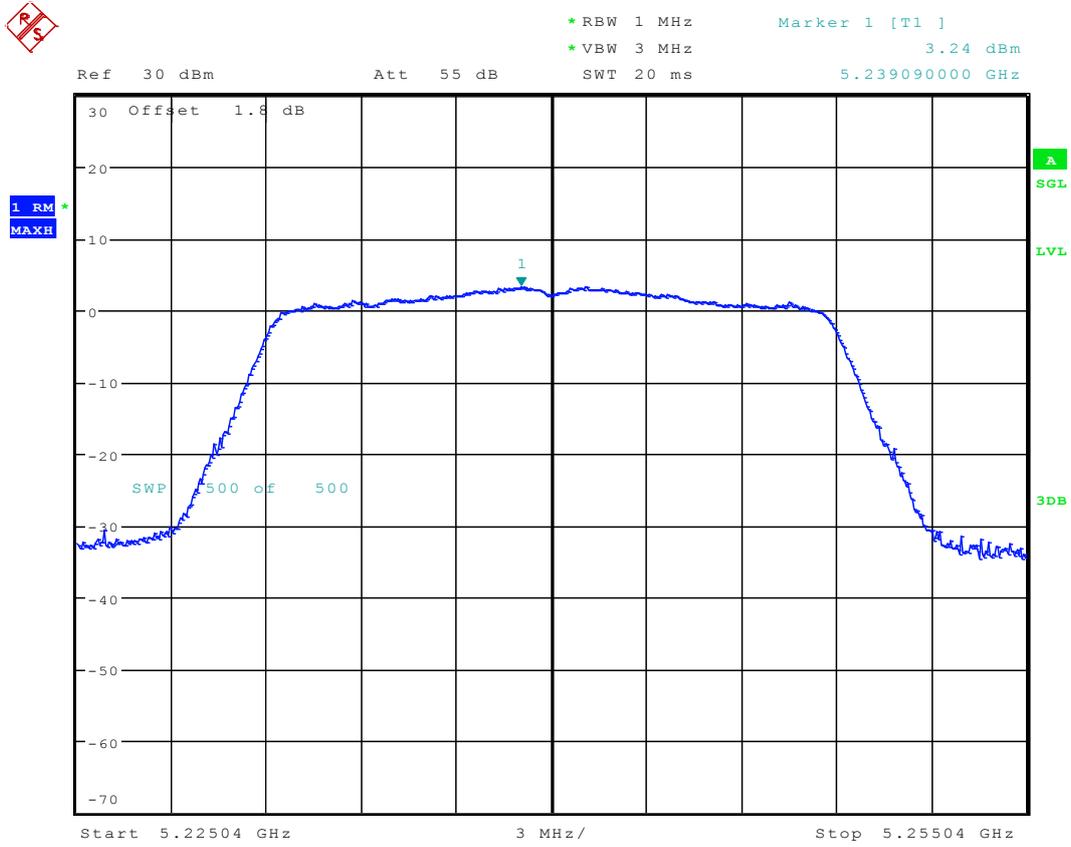
Date: 15.AUG.2016 11:05:17

### 10.11 11N20\_52 Ant 1



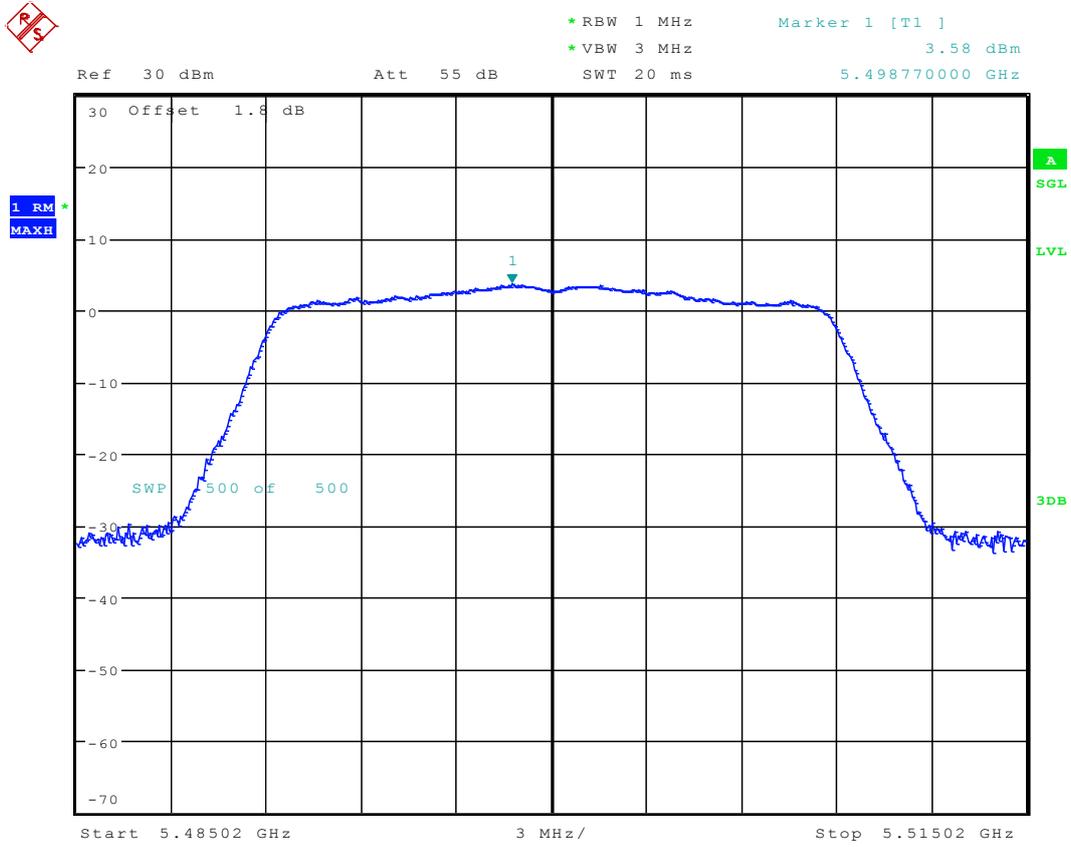
Date: 15.AUG.2016 10:41:04

### 10.12 11N20\_64 Ant 1



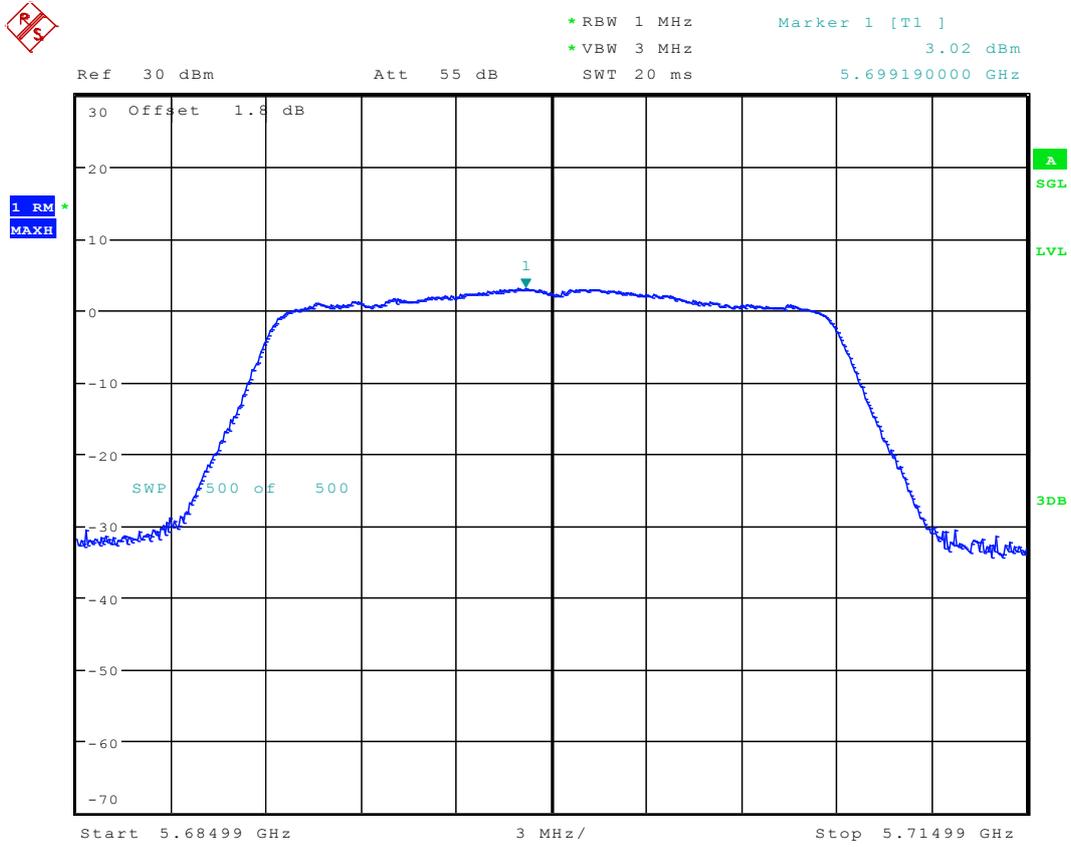
Date: 15.AUG.2016 10:46:48

### 10.13 11N20\_100 Ant 1



Date: 15.AUG.2016 11:13:12

### 10.14 11N20\_140 Ant 1

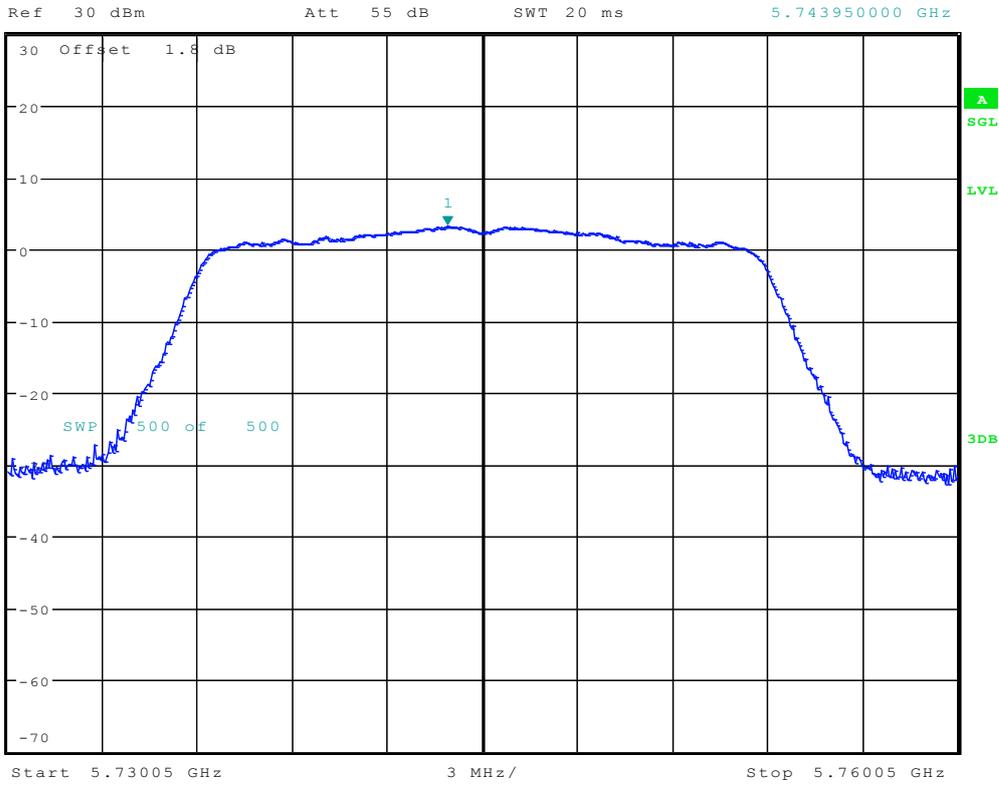


Date: 15.AUG.2016 11:18:53

### 10.15 11N20\_149 Ant 1

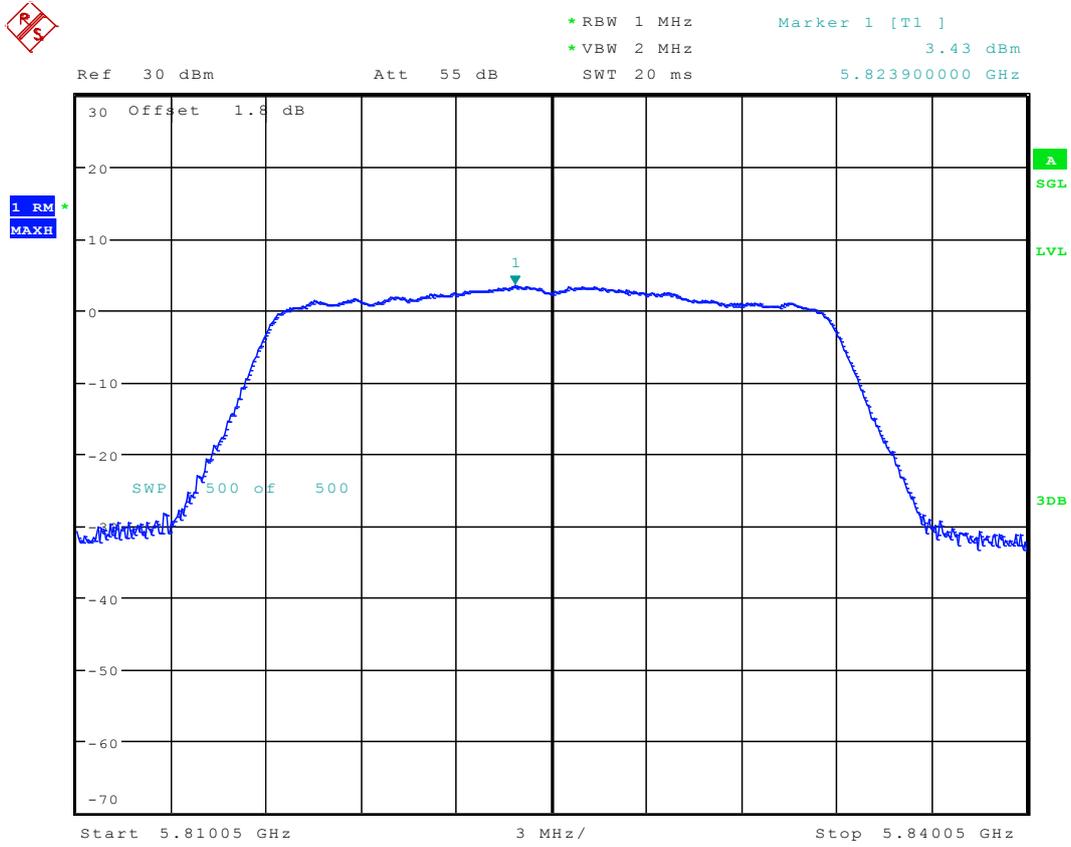


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 2 MHz      3.16 dBm  
SWT 20 ms      5.743950000 GHz



Date: 15.AUG.2016 11:29:47

## 10.16 11N20\_165 Ant 1

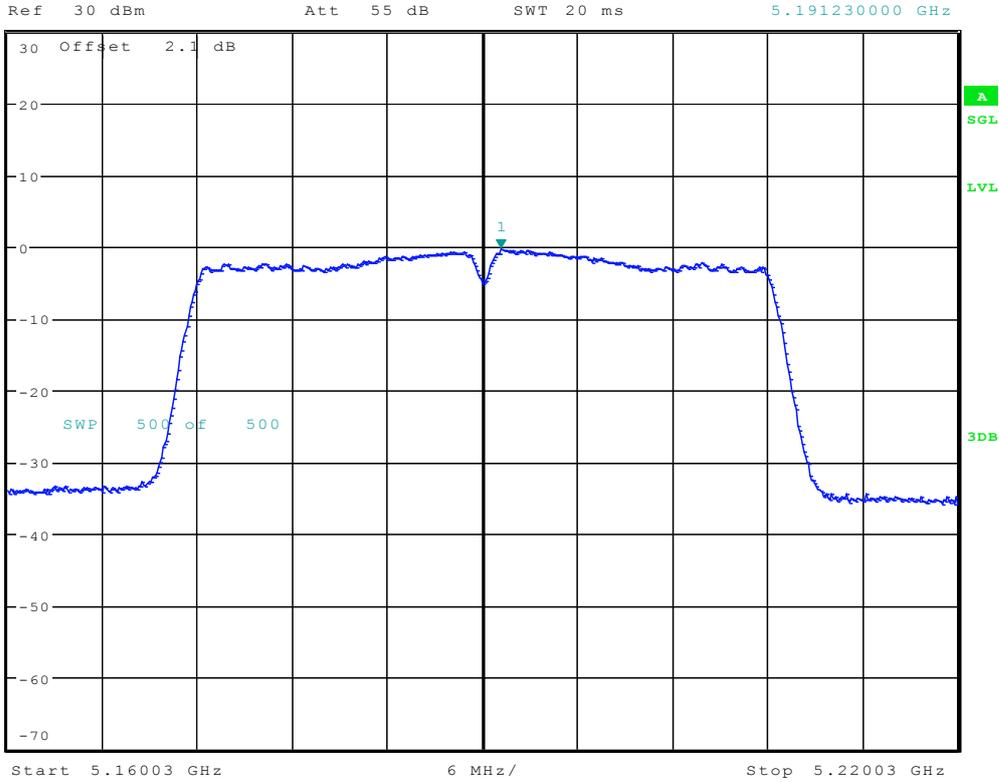


Date: 15.AUG.2016 11:33:27

### 10.17 11N40\_38 Ant 1



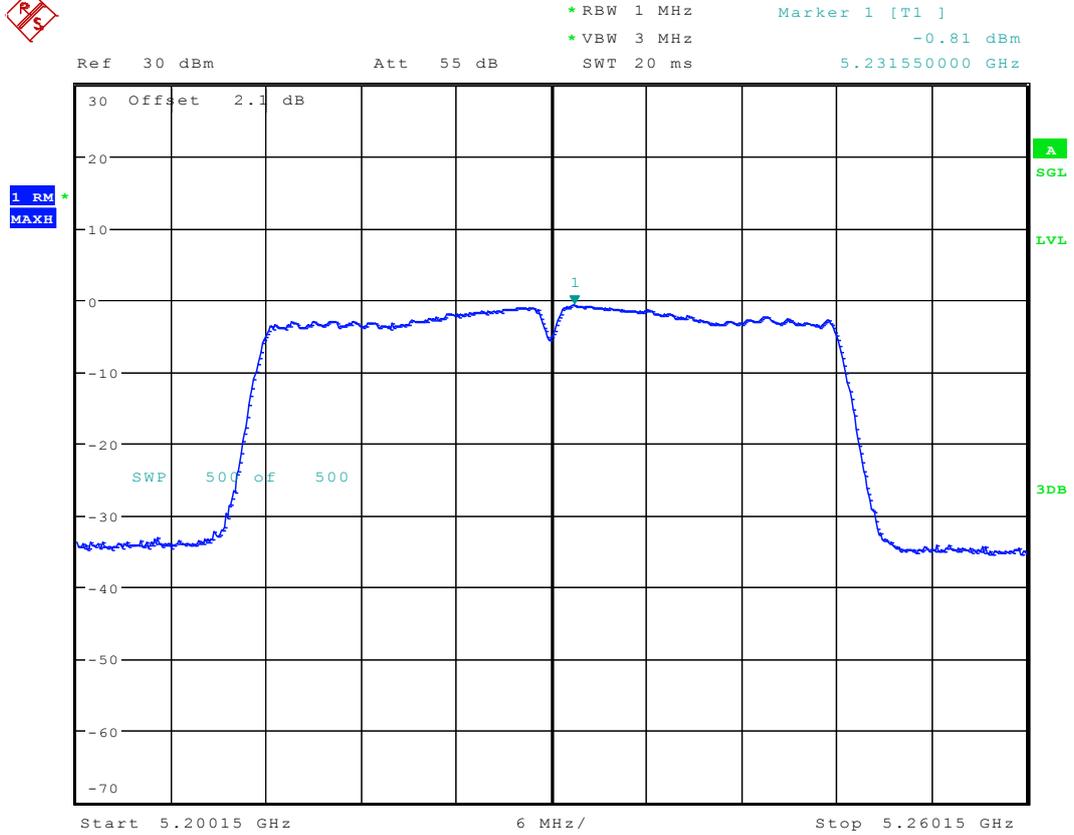
\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 3 MHz      -0.45 dBm  
SWT 20 ms      5.191230000 GHz



Date: 15.AUG.2016 11:38:08

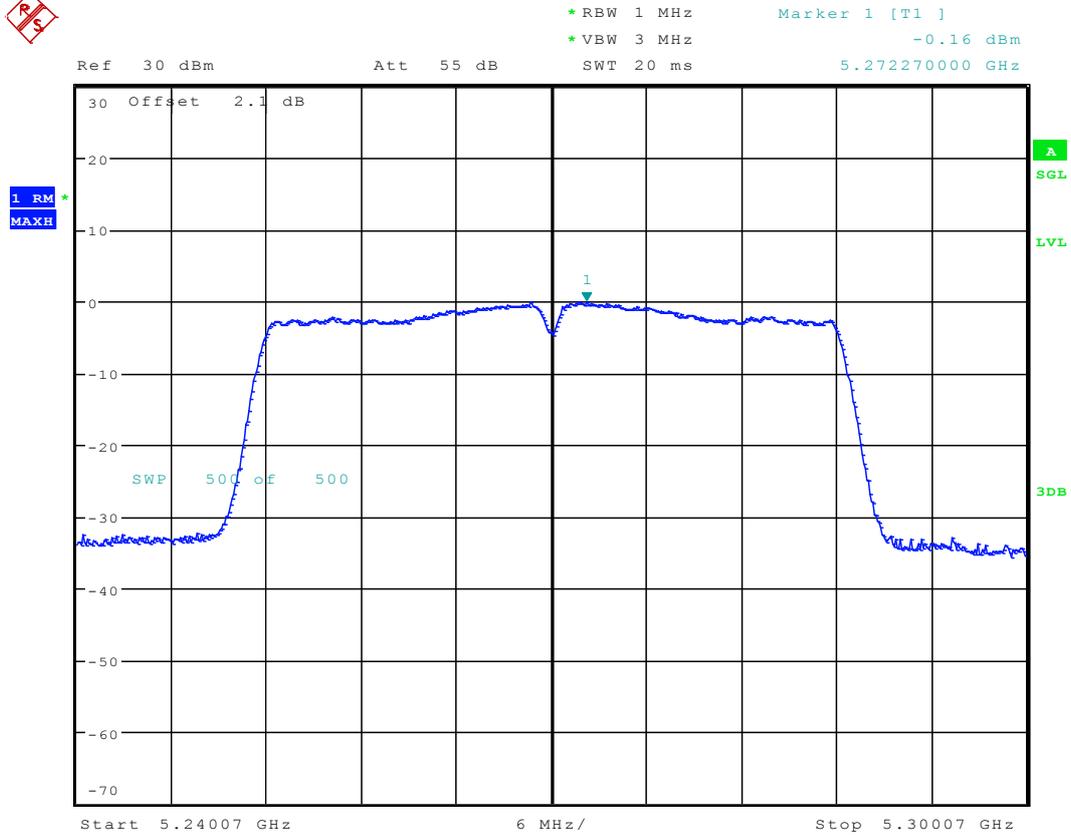


### 10.18 11N40\_46 Ant 1



Date: 15.AUG.2016 11:41:38

### 10.19 11N40\_54 Ant 1

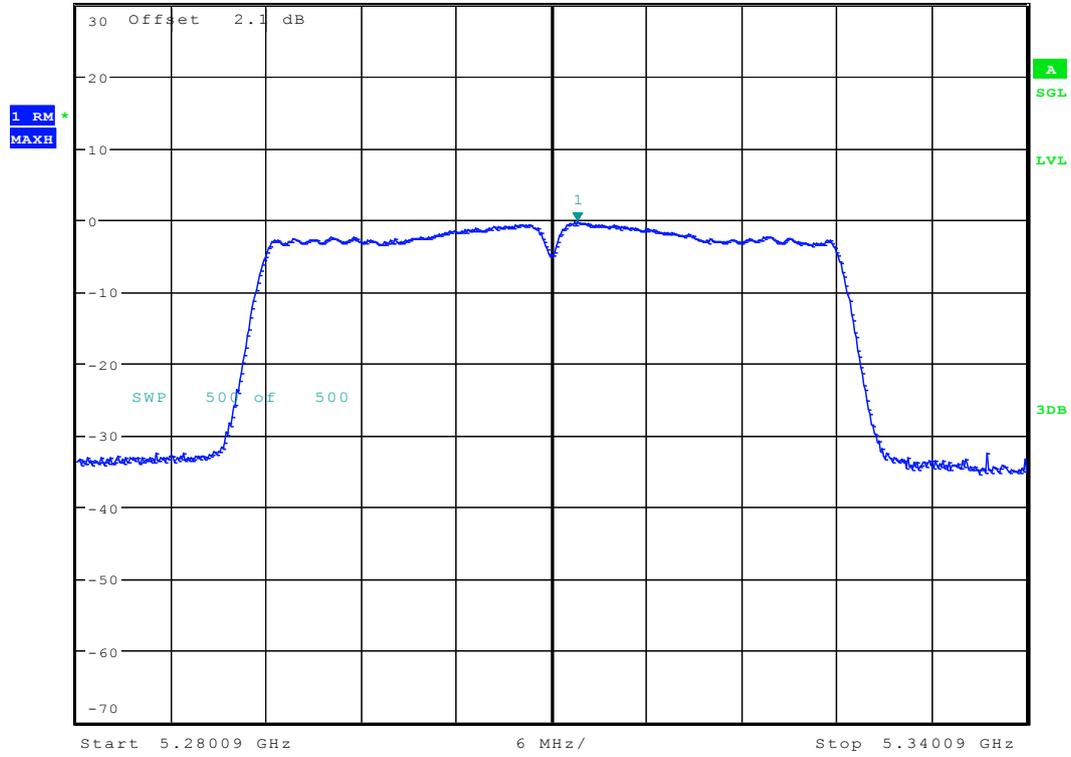


Date: 15.AUG.2016 11:45:05

### 10.20 11N40\_62 Ant 1



Ref 30 dBm Att 55 dB \*RBW 1 MHz \*VBW 3 MHz SWT 20 ms Marker 1 [T1 ] -0.36 dBm 5.311690000 GHz

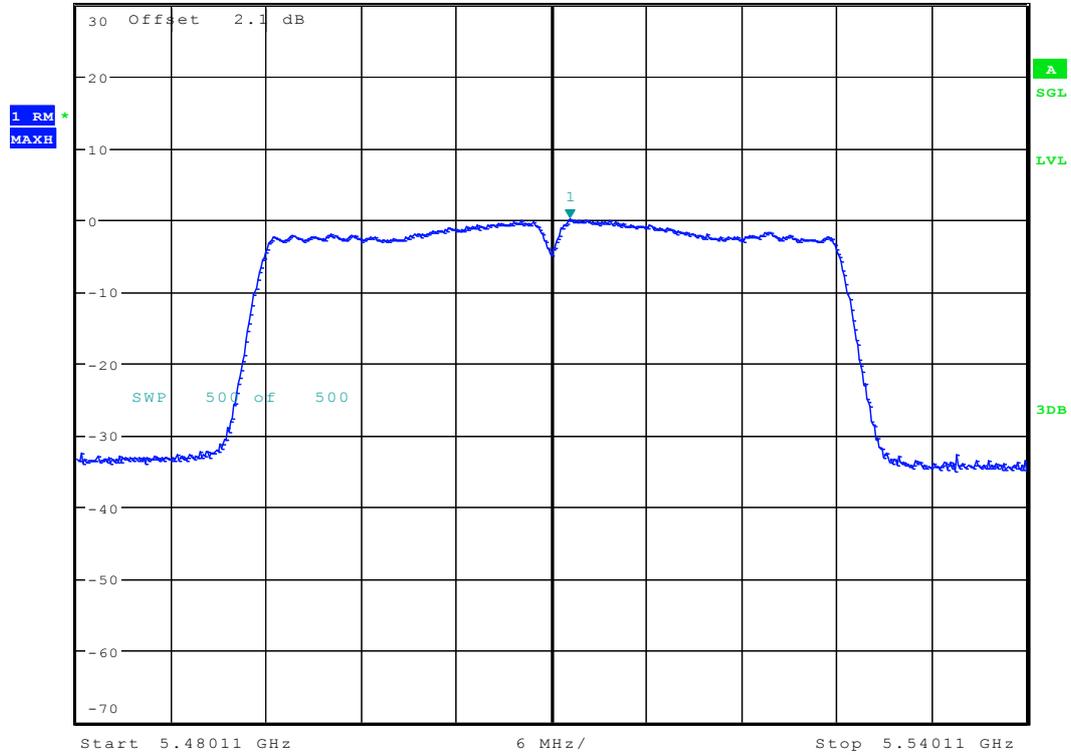


Date: 15.AUG.2016 11:48:28

### 10.21 11N40\_102 Ant 1

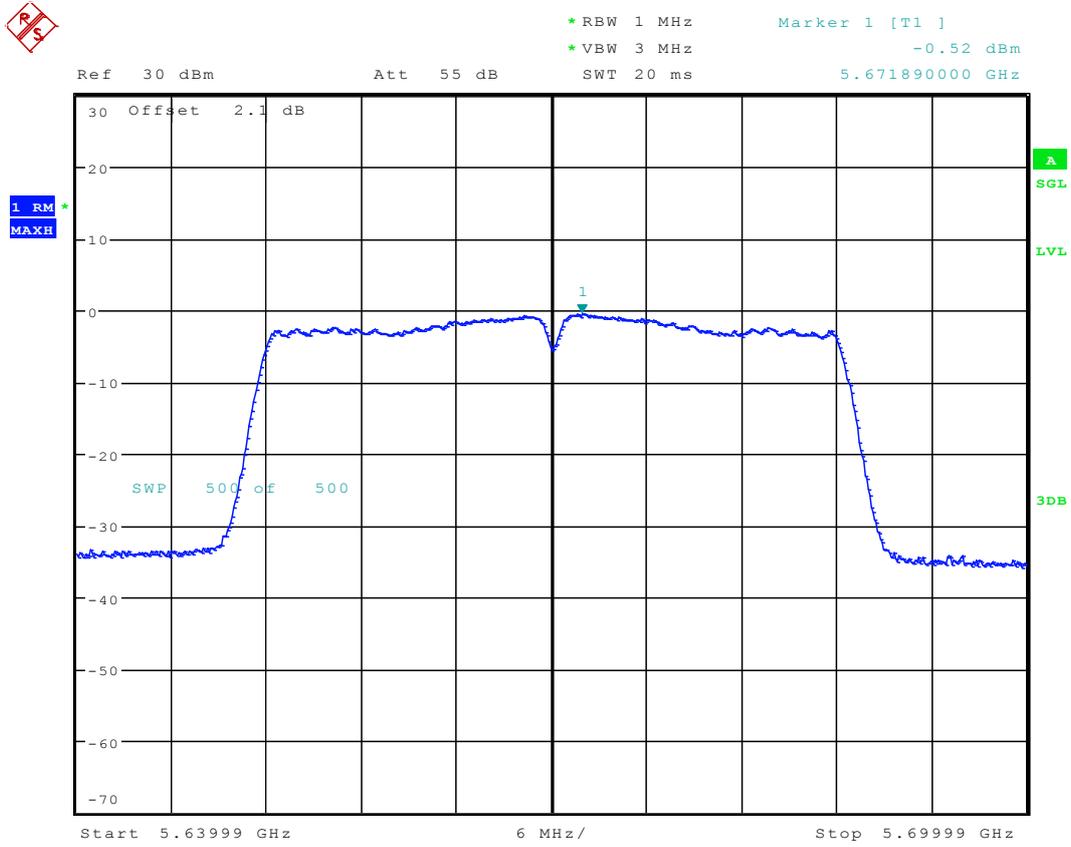


Ref 30 dBm Att 55 dB \*RBW 1 MHz Marker 1 [T1] 0.00 dBm  
\*VBW 3 MHz SWT 20 ms 5.511310000 GHz



Date: 15.AUG.2016 11:52:13

### 10.22 11N40\_134 Ant 1

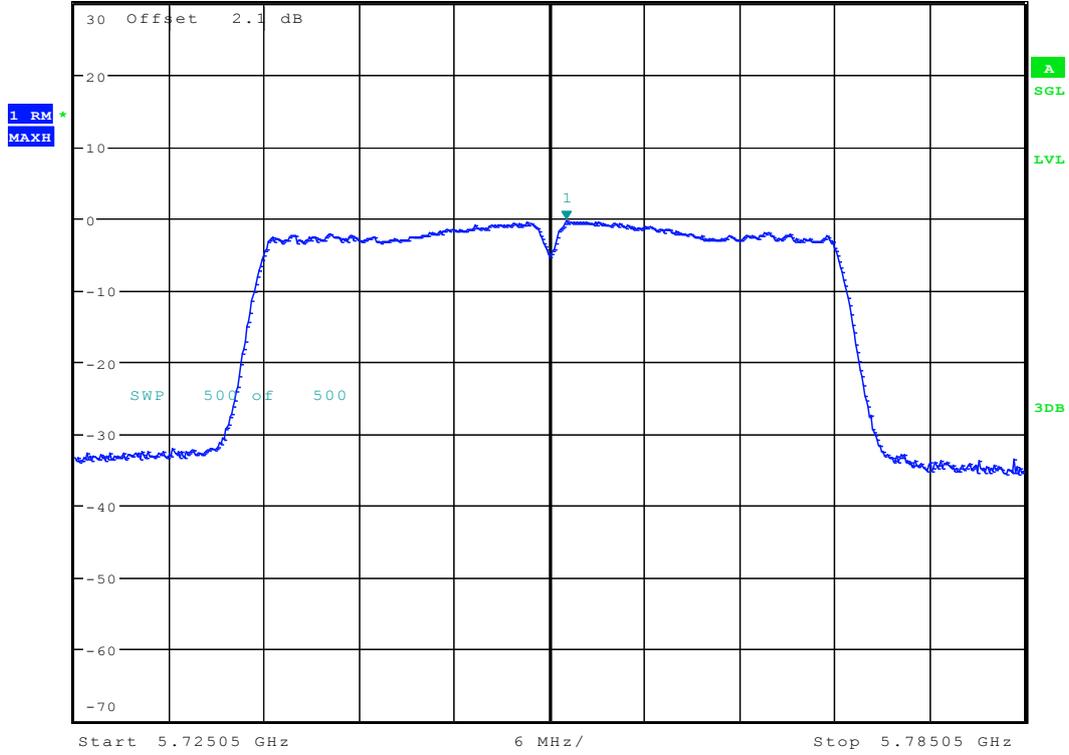


Date: 15.AUG.2016 11:54:46

### 10.23 11N40\_151 Ant 1



Ref 30 dBm Att 55 dB \* RBW 1 MHz Marker 1 [T1 ]  
\* VBW 2 MHz -0.43 dBm  
SWT 20 ms 5.756150000 GHz

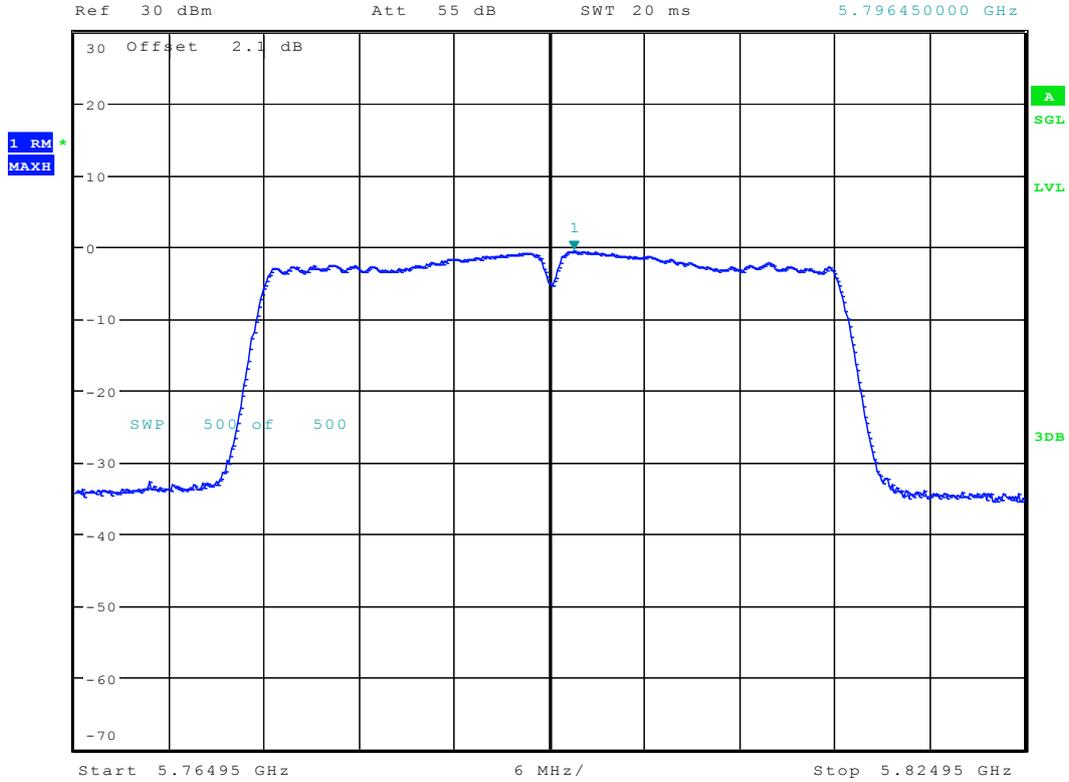


Date: 15.AUG.2016 11:57:55

### 10.24 11N40\_159 Ant 1

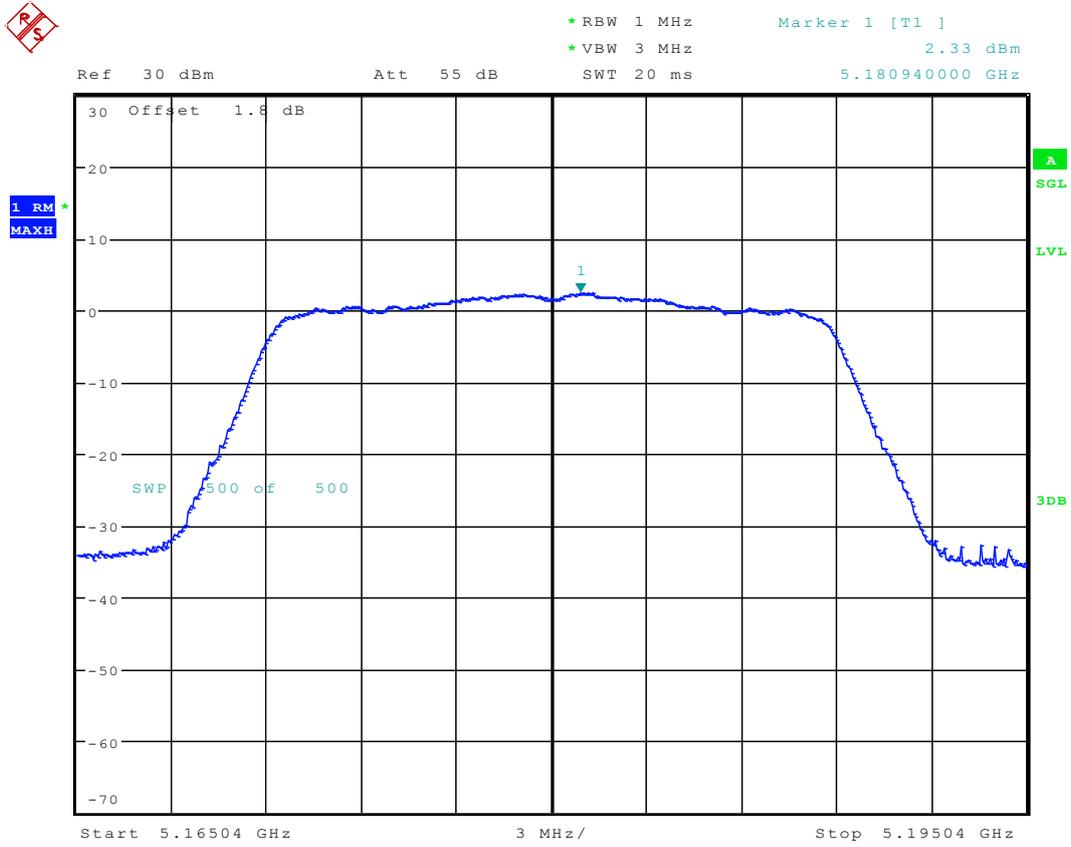


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 2 MHz      -0.66 dBm  
SWT 20 ms      5.796450000 GHz



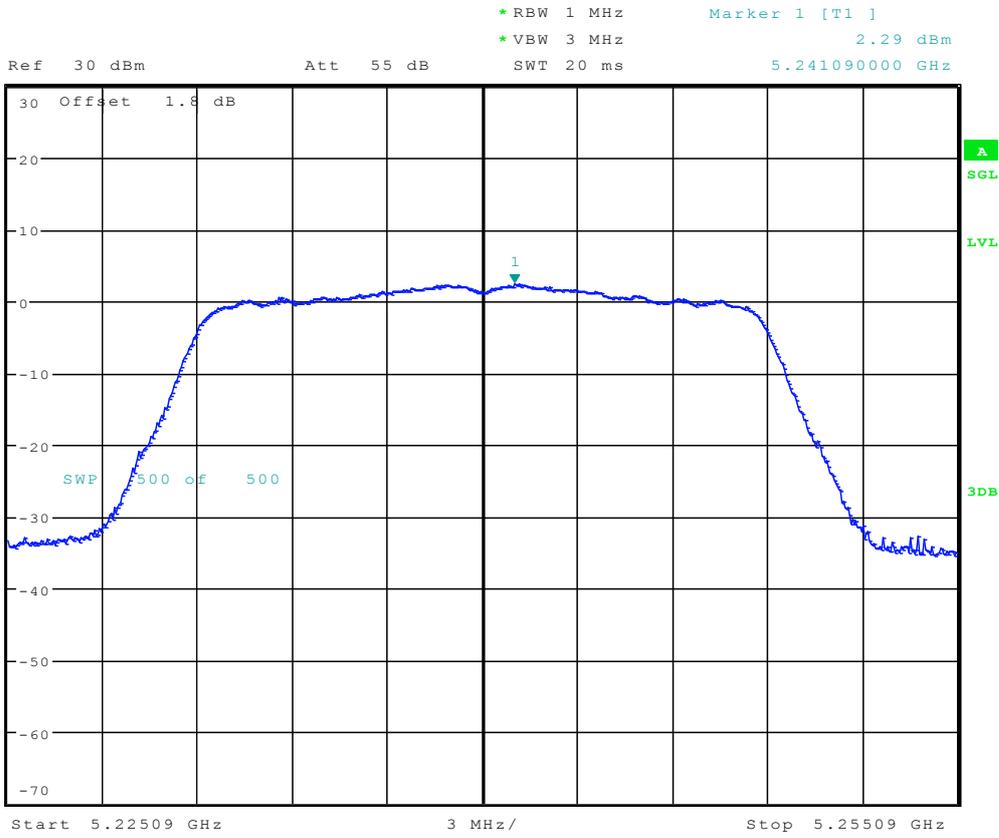
Date: 15.AUG.2016 12:01:43

### 10.25 11AC20\_36 Ant 1



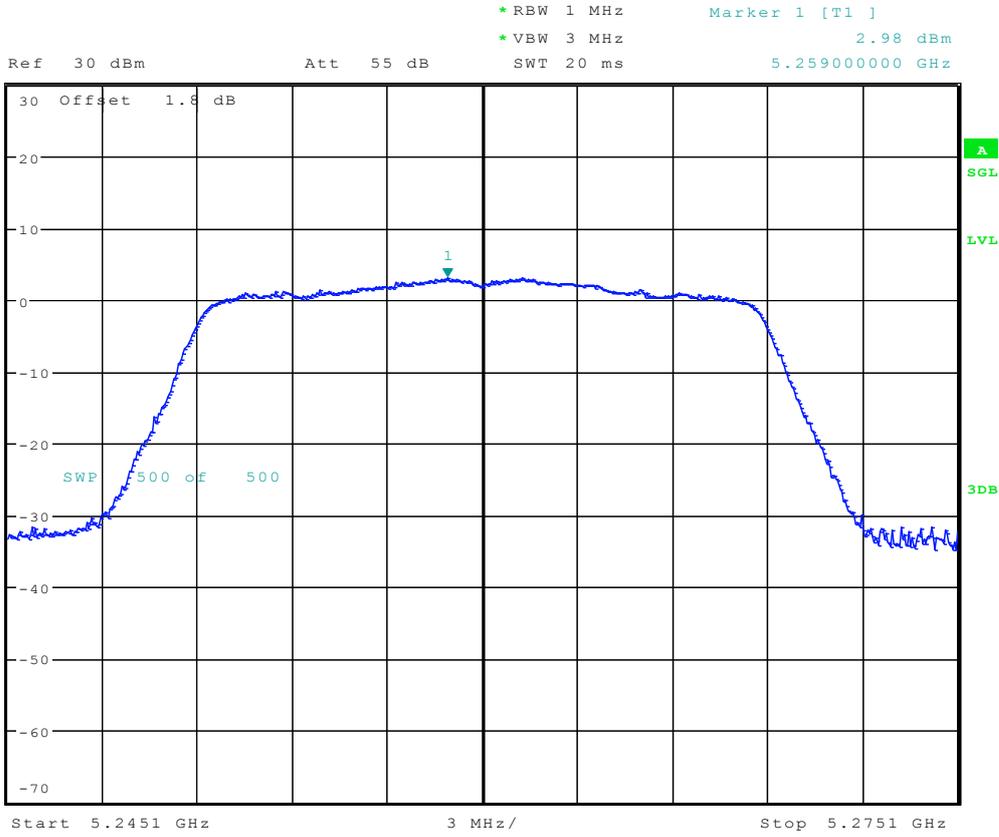
Date: 15.AUG.2016 12:20:21

### 10.26 11AC20\_48 Ant 1



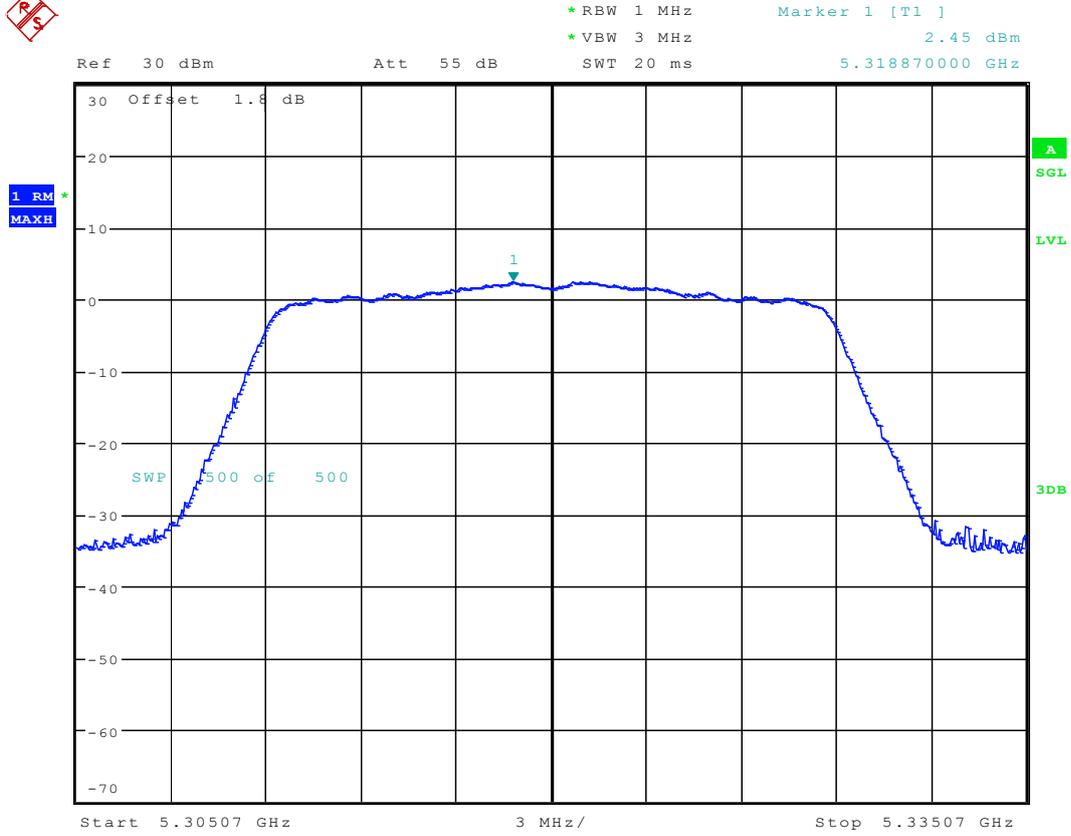
Date: 15.AUG.2016 12:48:34

### 10.27 11AC20\_52 Ant 1



Date: 15.AUG.2016 12:53:41

### 10.28 11AC20\_64 Ant 1



Date: 15.AUG.2016 12:56:50

### 10.29 11AC20\_100 Ant 1

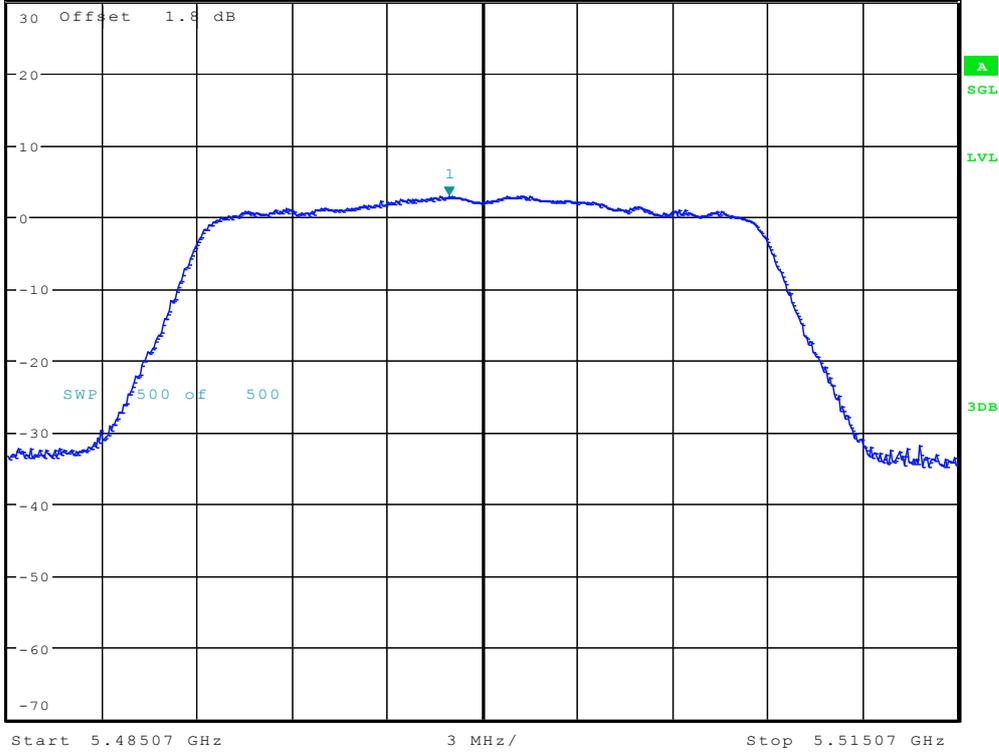


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 3 MHz      2.85 dBm  
SWT 20 ms      5.499020000 GHz

Ref 30 dBm

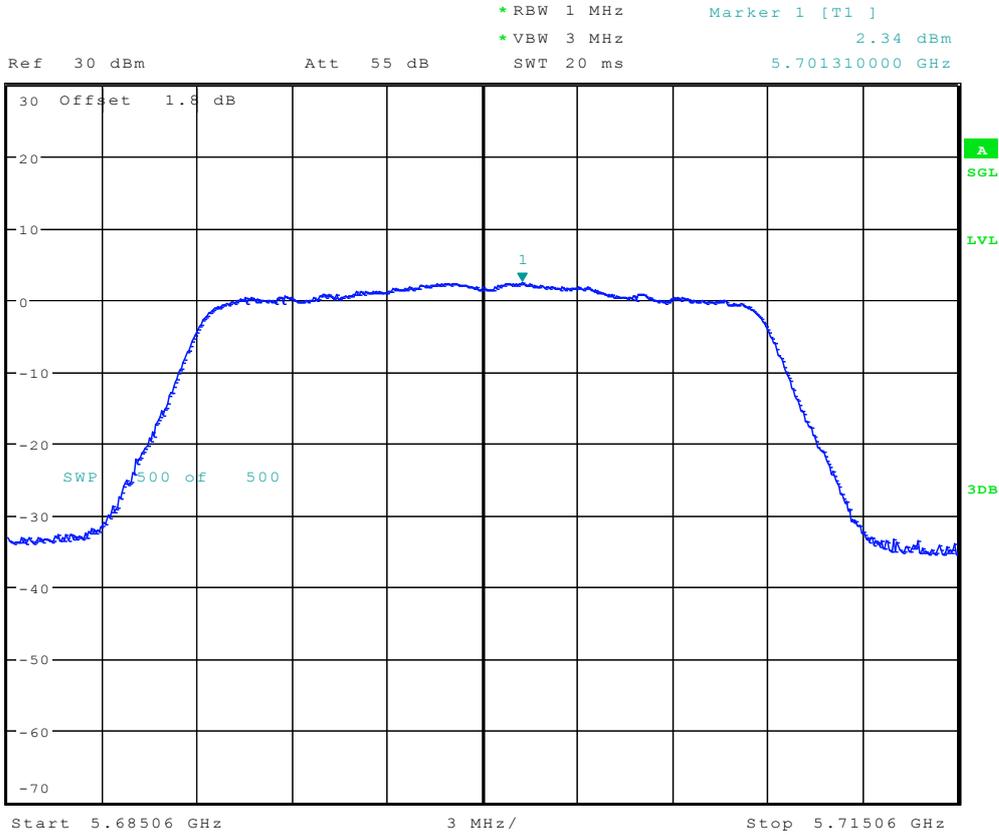
Att 55 dB

1 RM  
MAXH



Date: 15.AUG.2016 13:00:07

### 10.30 11AC20\_140 Ant 1

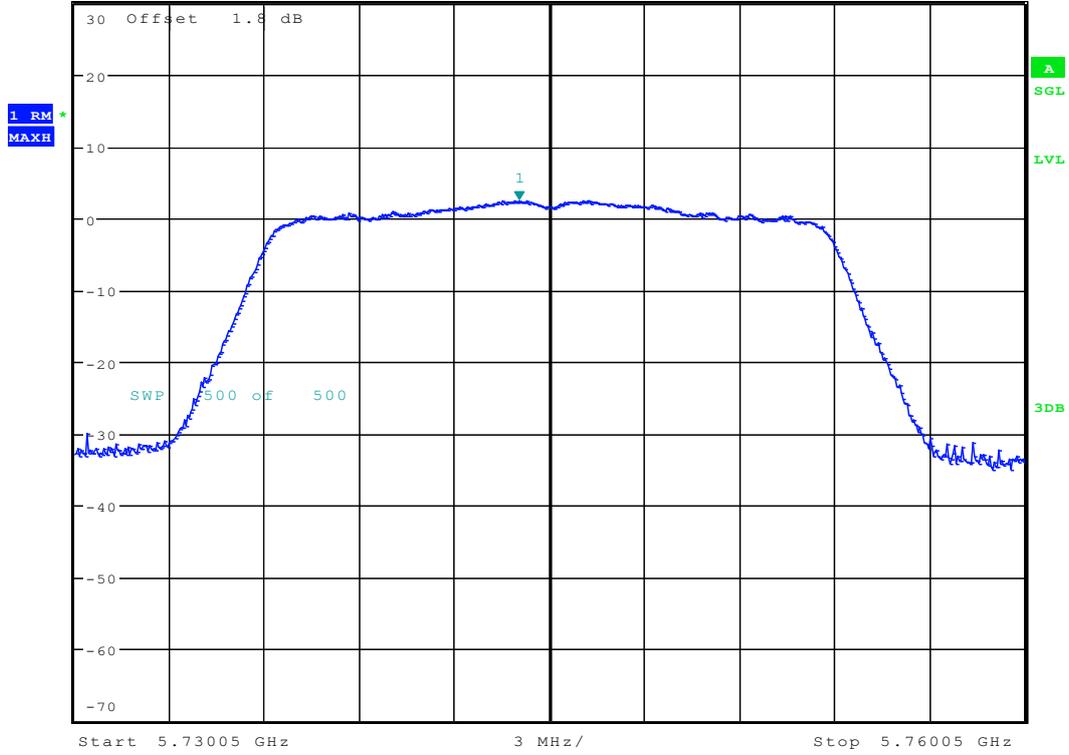


Date: 15.AUG.2016 13:03:10

### 10.31 11AC20\_149 Ant 1

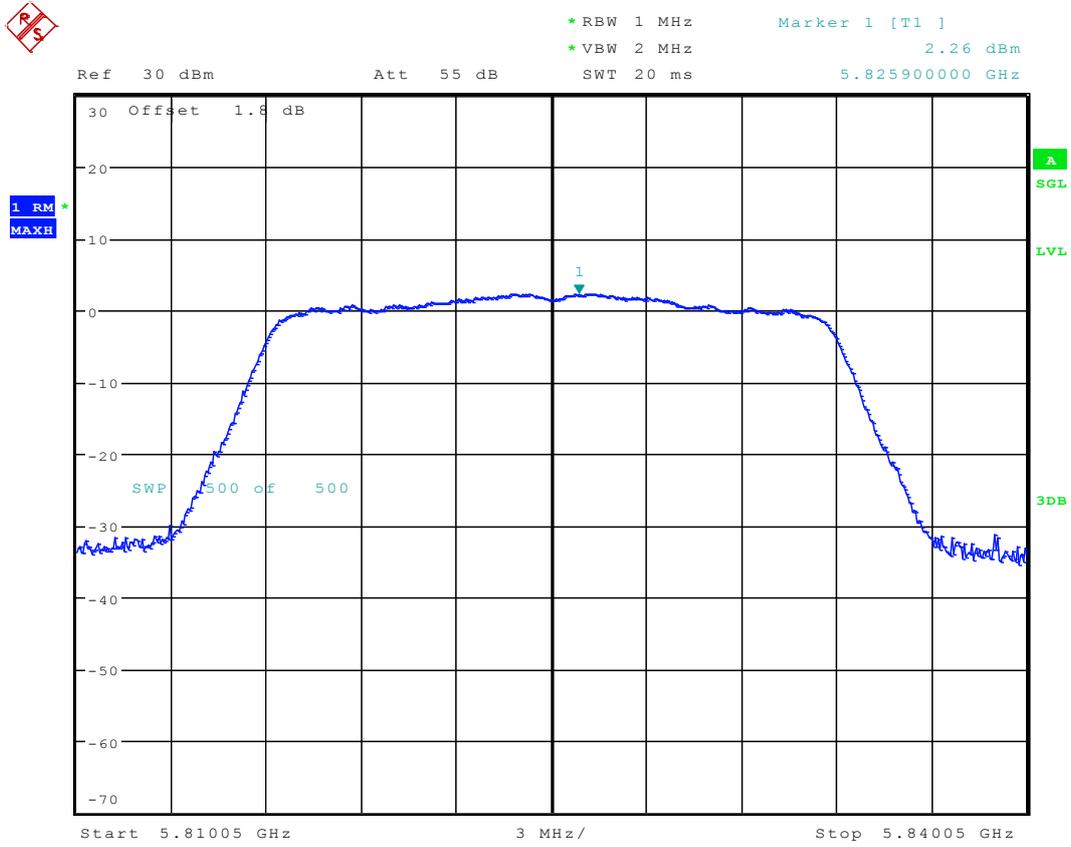


Ref 30 dBm Att 55 dB \* RBW 1 MHz Marker 1 [T1 ]  
\* VBW 2 MHz 2.41 dBm  
SWT 20 ms 5.744100000 GHz



Date: 15.AUG.2016 13:07:08

## 10.32 11AC20\_165 Ant 1

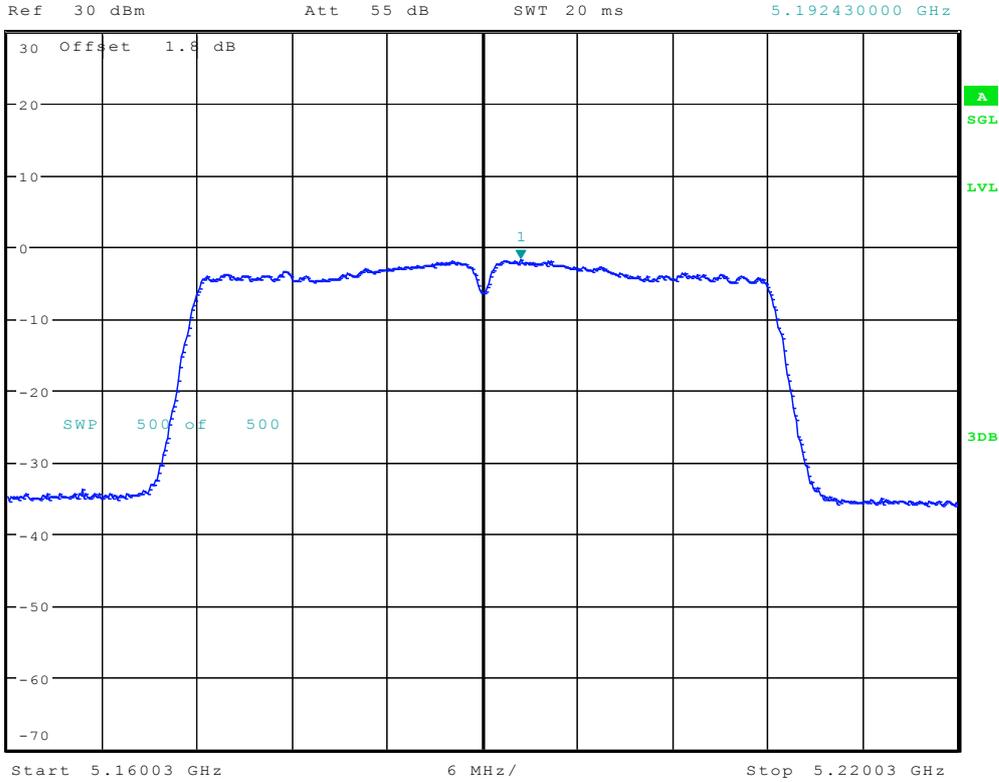


Date: 15.AUG.2016 13:10:54

### 10.33 11AC40\_38 Ant 1

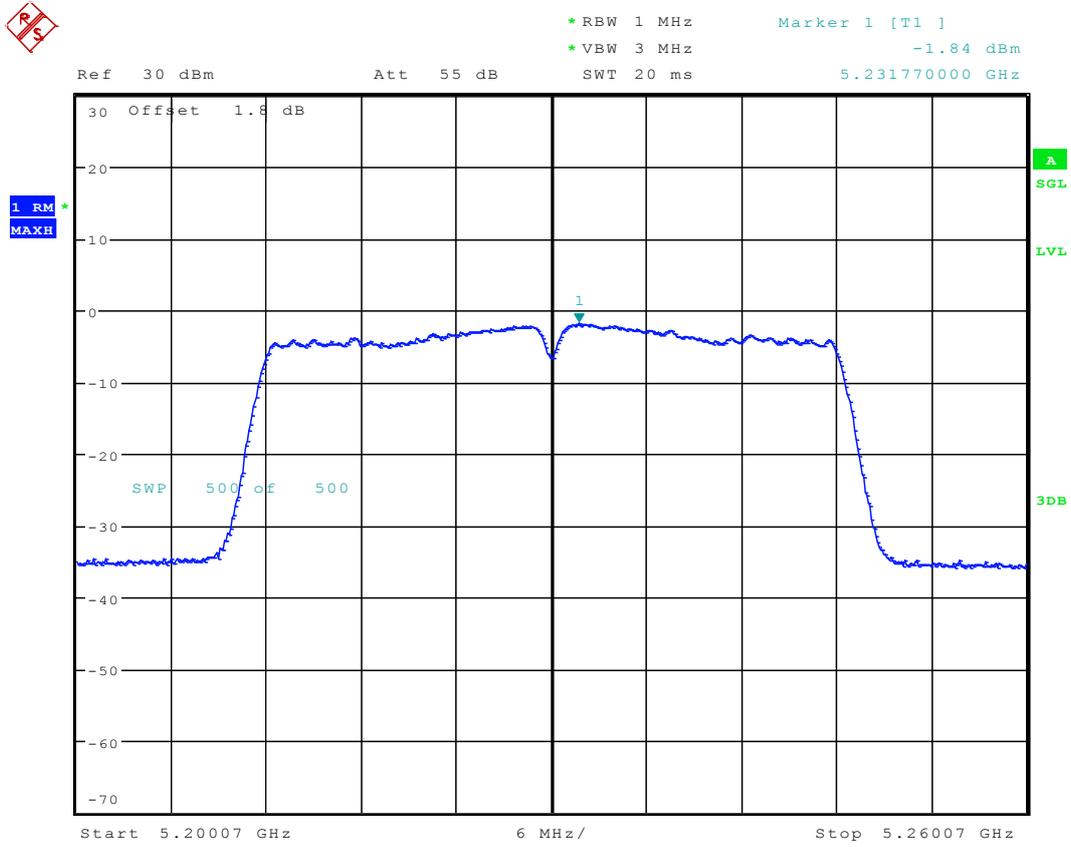


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 3 MHz      -1.81 dBm  
SWT 20 ms      5.192430000 GHz



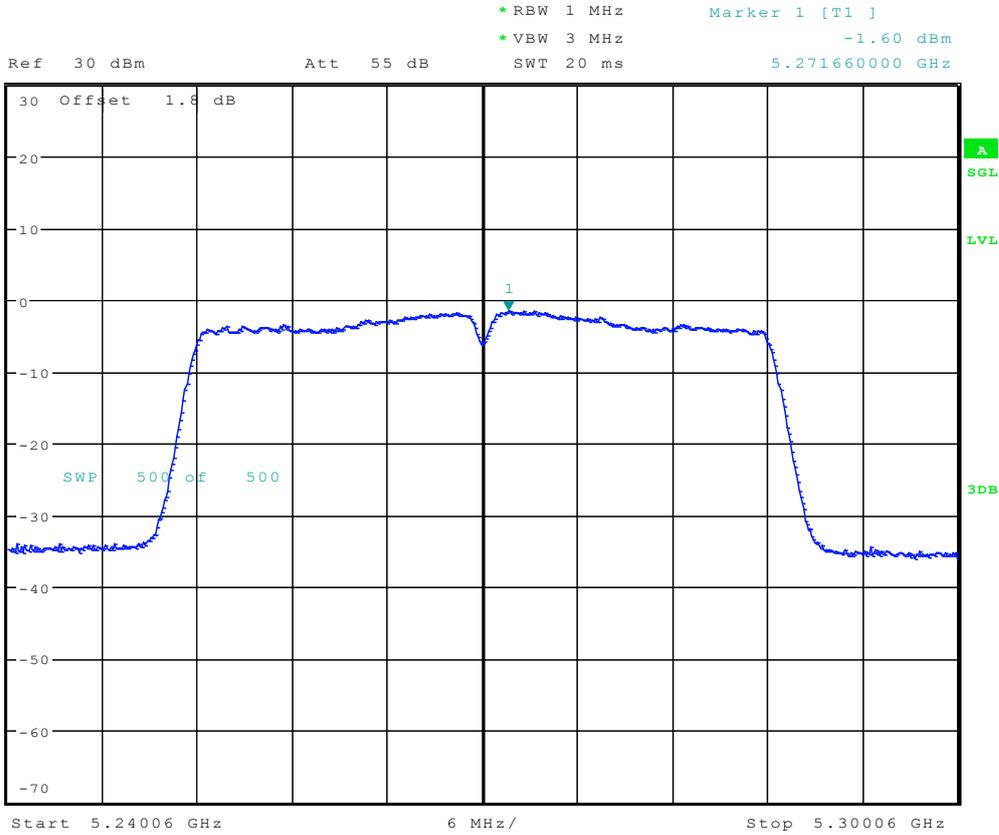
Date: 15.AUG.2016 13:28:26

### 10.34 11AC40\_46 Ant 1



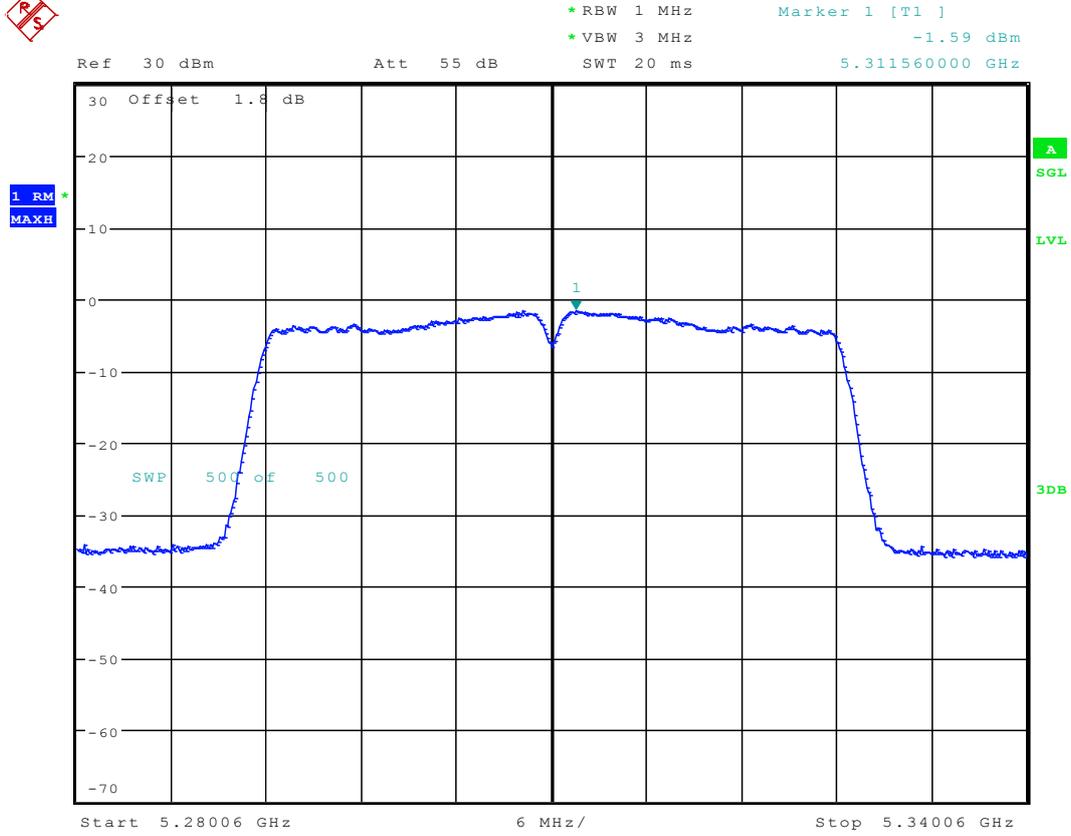
Date: 15.AUG.2016 13:31:36

### 10.35 11AC40\_54 Ant 1



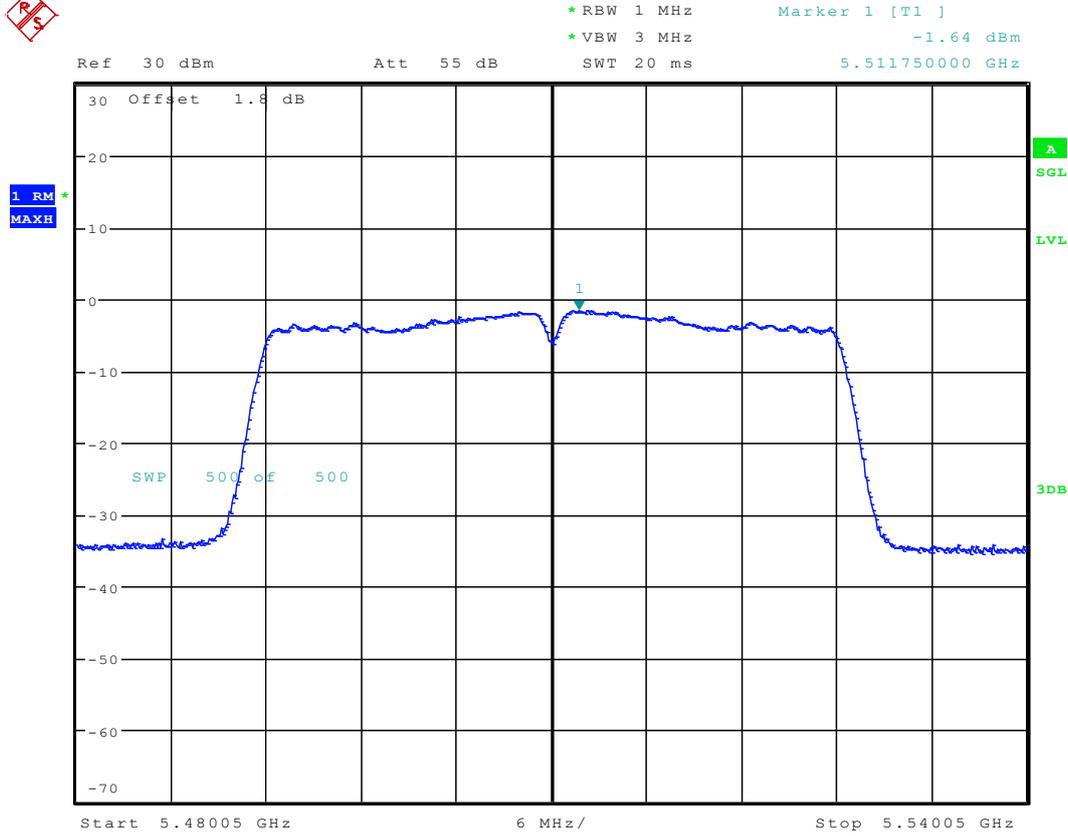
Date: 15.AUG.2016 13:35:09

### 10.36 11AC40\_62 Ant 1



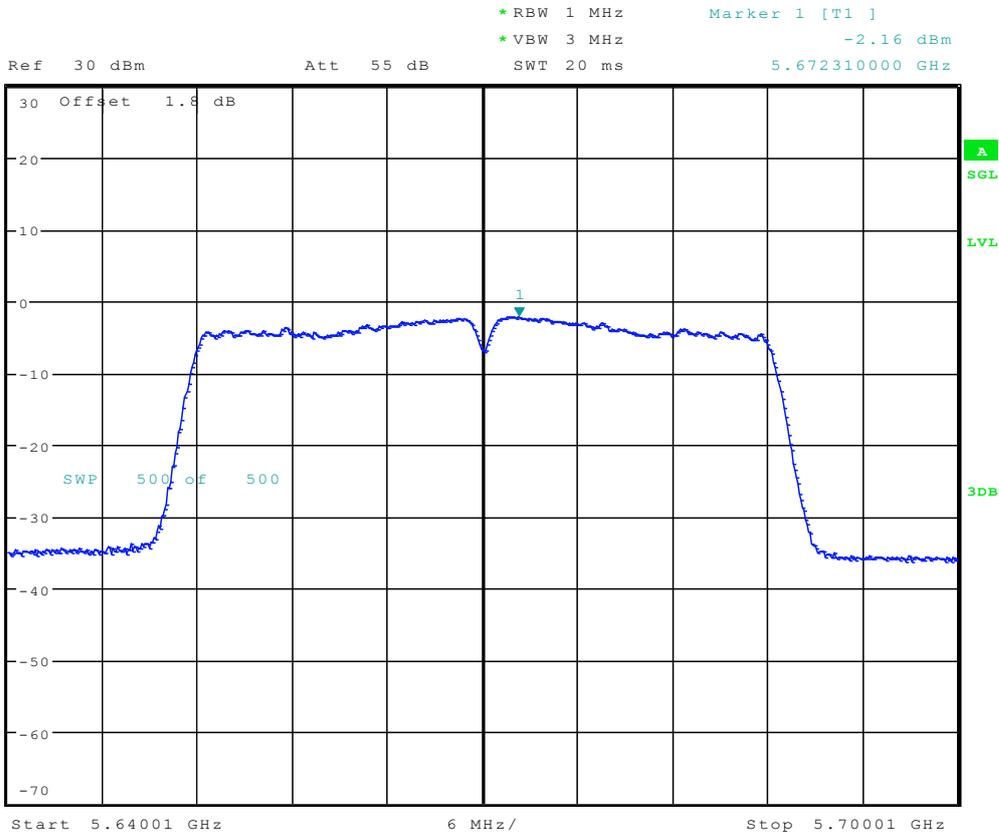
Date: 15.AUG.2016 13:40:20

### 10.37 11AC40\_102 Ant 1



Date: 15.AUG.2016 13:23:11

### 10.38 11AC40\_134 Ant 1

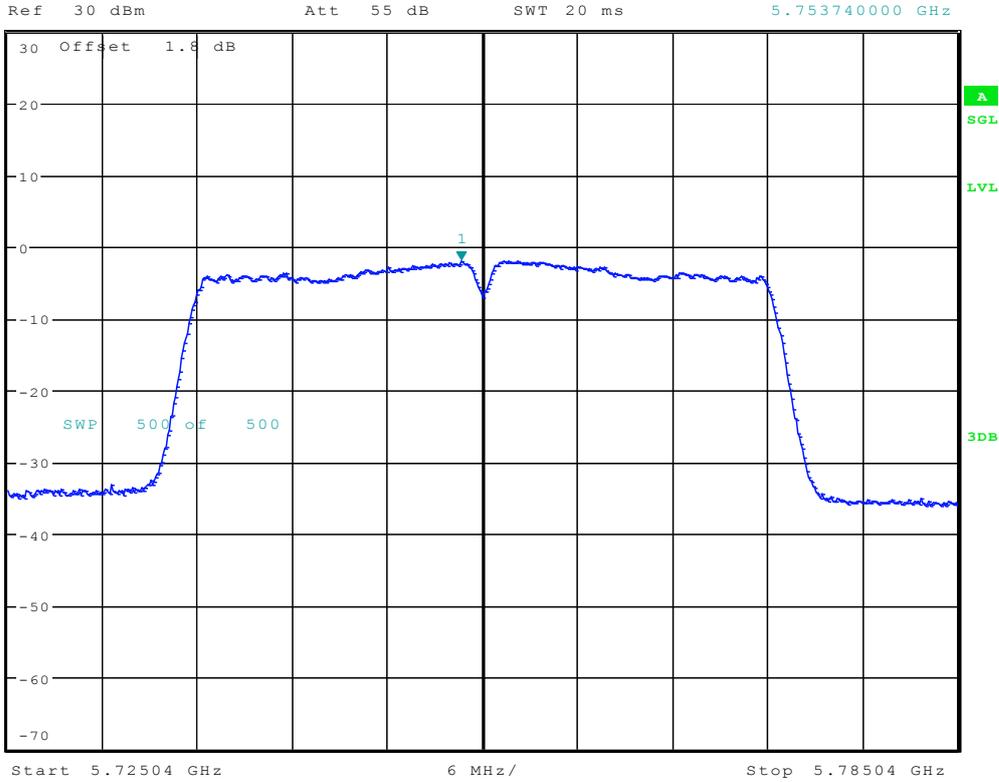


Date: 15.AUG.2016 13:25:38

### 10.39 11AC40\_151 Ant 1



\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 2 MHz      -2.03 dBm  
SWT 20 ms      5.753740000 GHz

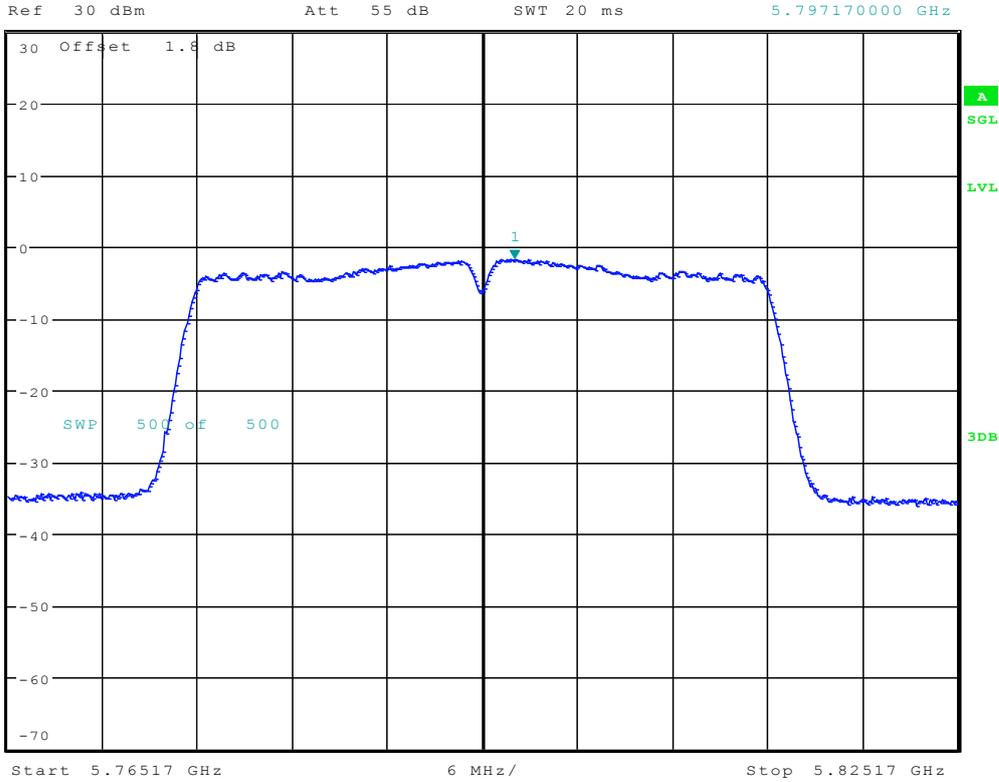


Date: 15.AUG.2016 13:15:04

### 10.40 11AC40\_159 Ant 1

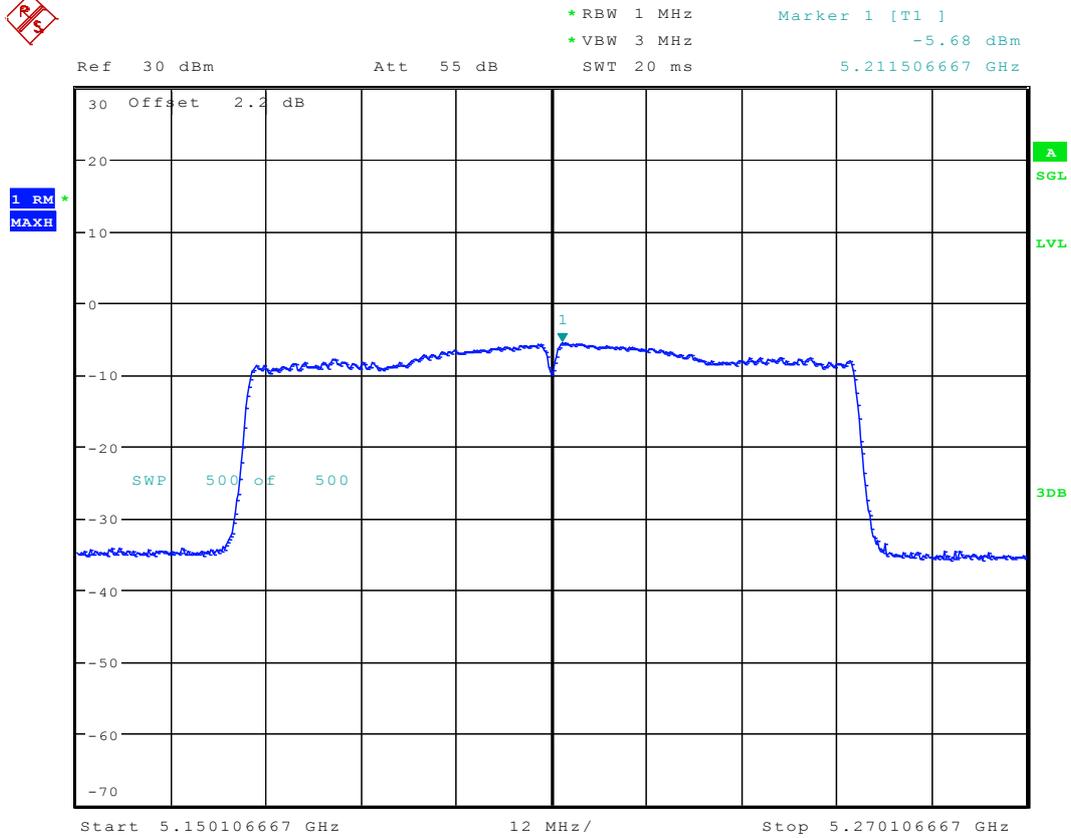


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 2 MHz      -1.73 dBm  
SWT 20 ms      5.797170000 GHz



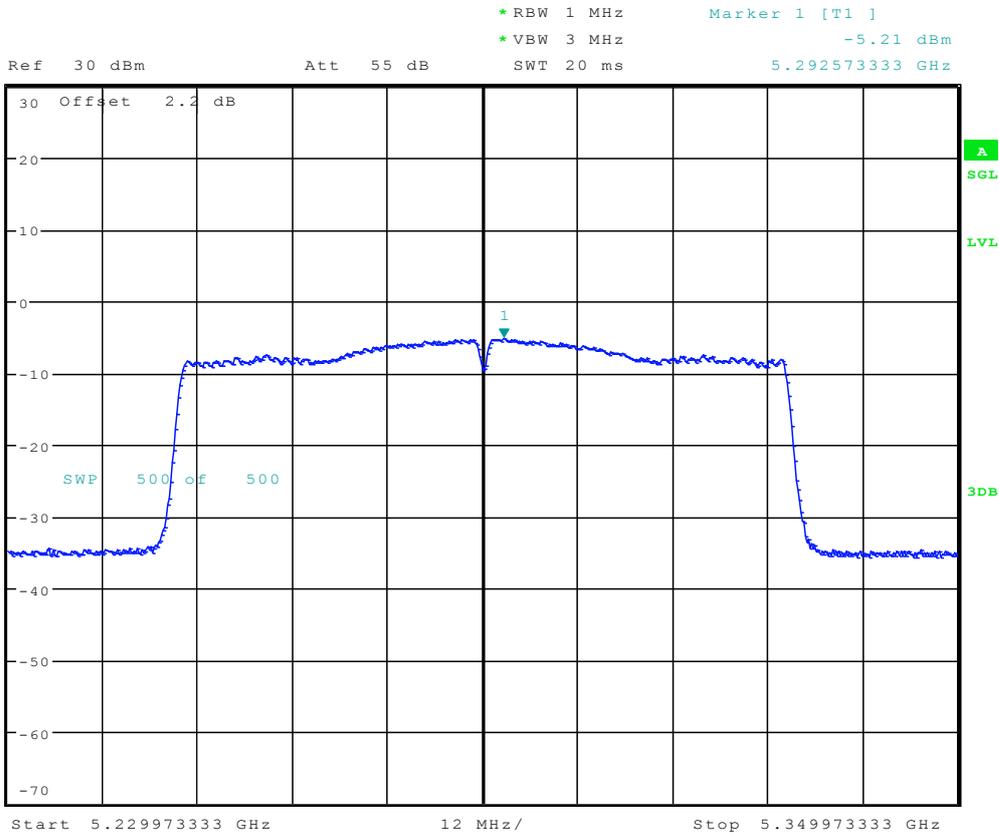
Date: 15.AUG.2016 13:19:09

## 10.41 11AC80\_42 Ant 1



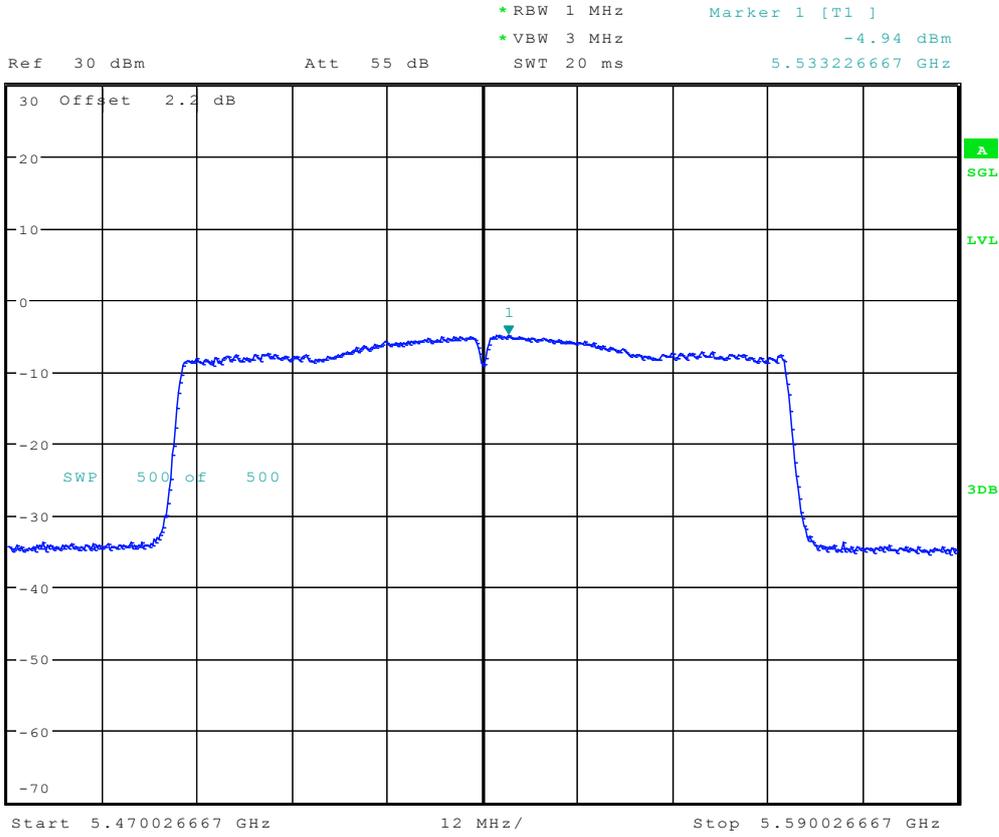
Date: 15.AUG.2016 13:45:03

### 10.42 11AC80\_58 Ant 1



Date: 15.AUG.2016 13:53:11

### 10.43 11AC80\_106 Ant 1

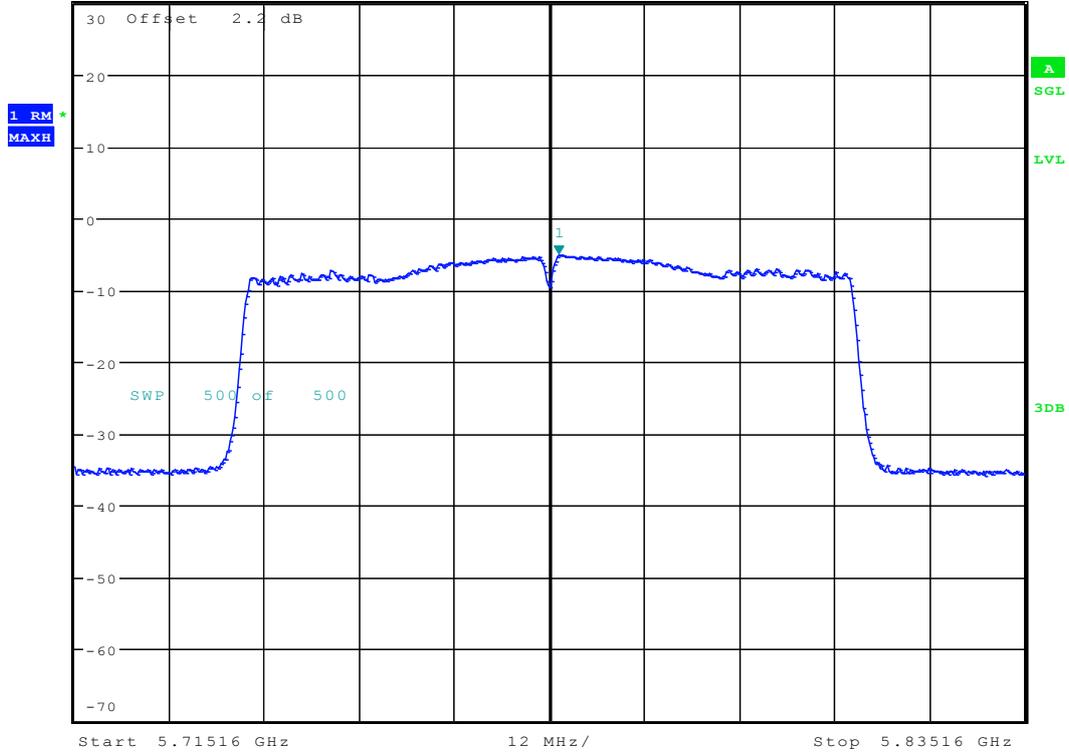


Date: 15.AUG.2016 13:57:14

### 10.44 11AC80\_155 Ant 1



Ref 30 dBm Att 55 dB \* RBW 1 MHz Marker 1 [T1 ]  
\* VBW 2 MHz -5.13 dBm  
SWT 20 ms 5.776360000 GHz



Date: 15.AUG.2016 14:01:18



# Appendix F: Unwanted Emissions into Non-Restricted Frequency Bands

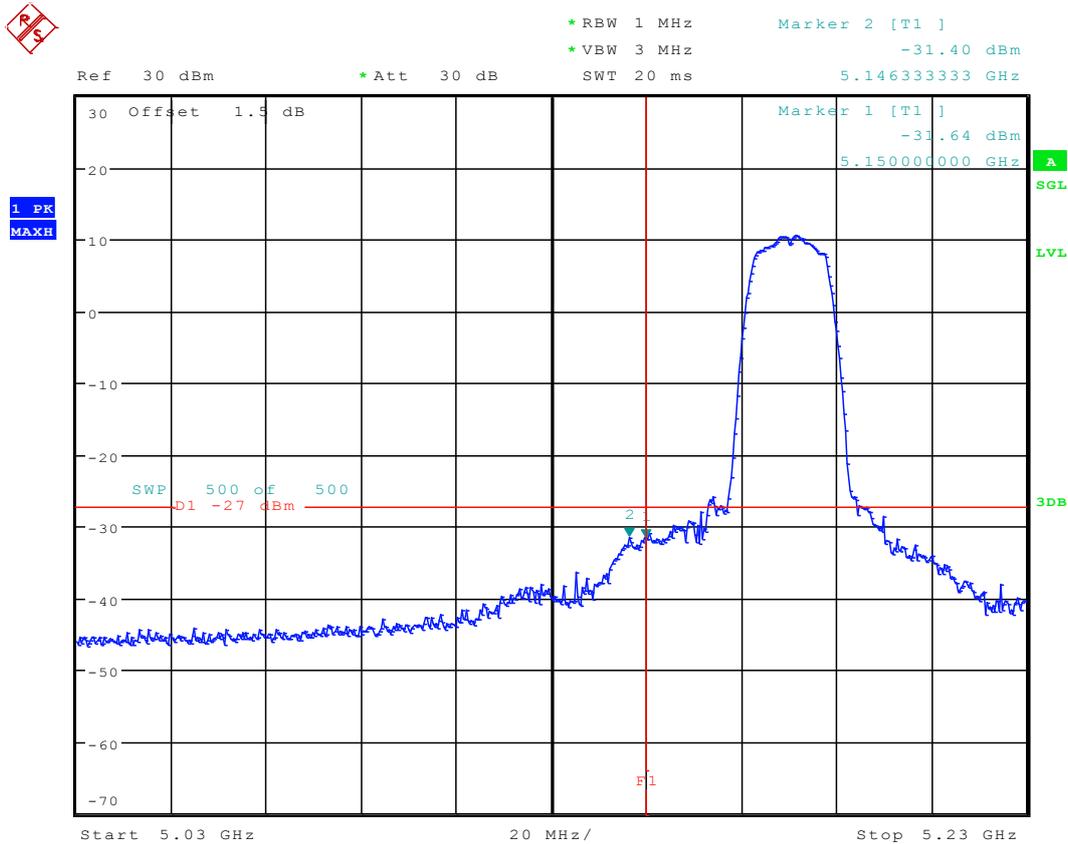


### 11 Result Table

FCC Part15, Subpart E		
Test Item	Frequency Range	Result
Unwanted Emissions into Non-Restricted Frequency Bands	5150-5250	pass
	5250-5350	pass
	5470-5725	pass
	5725-5825	pass

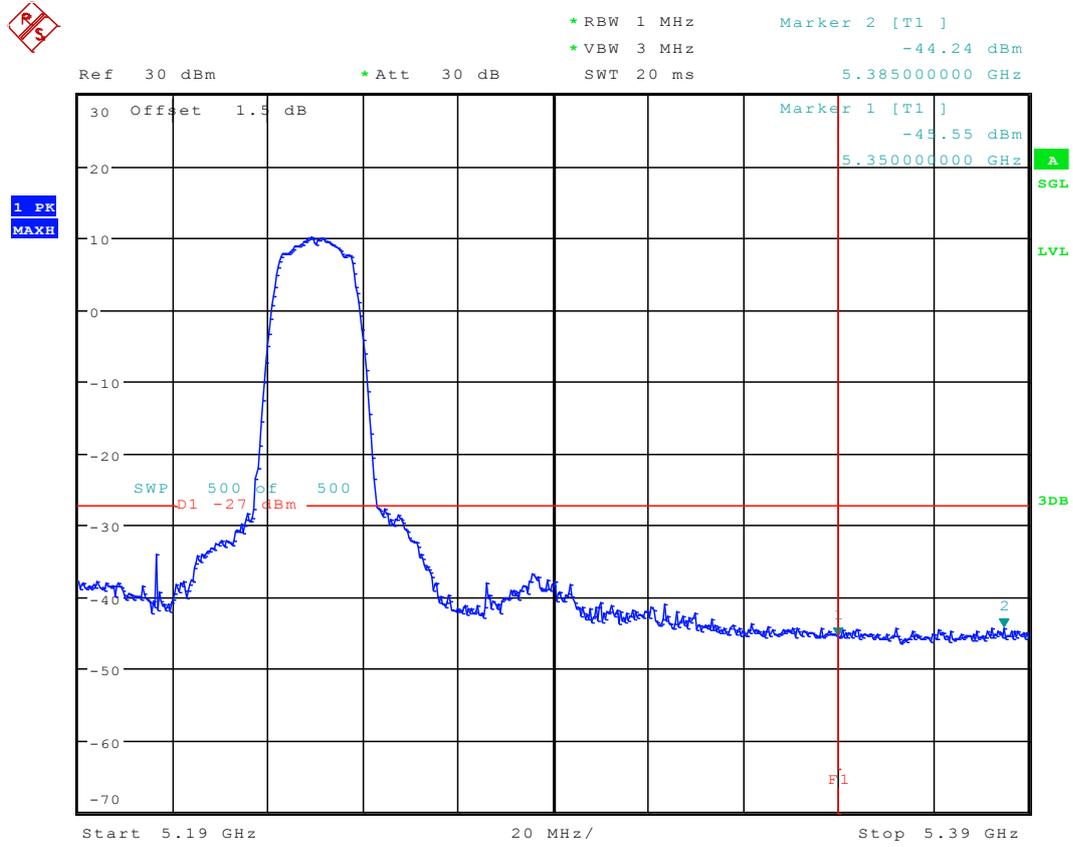
### 12 Test Plot

#### 12.1 11A\_36 Ant 1



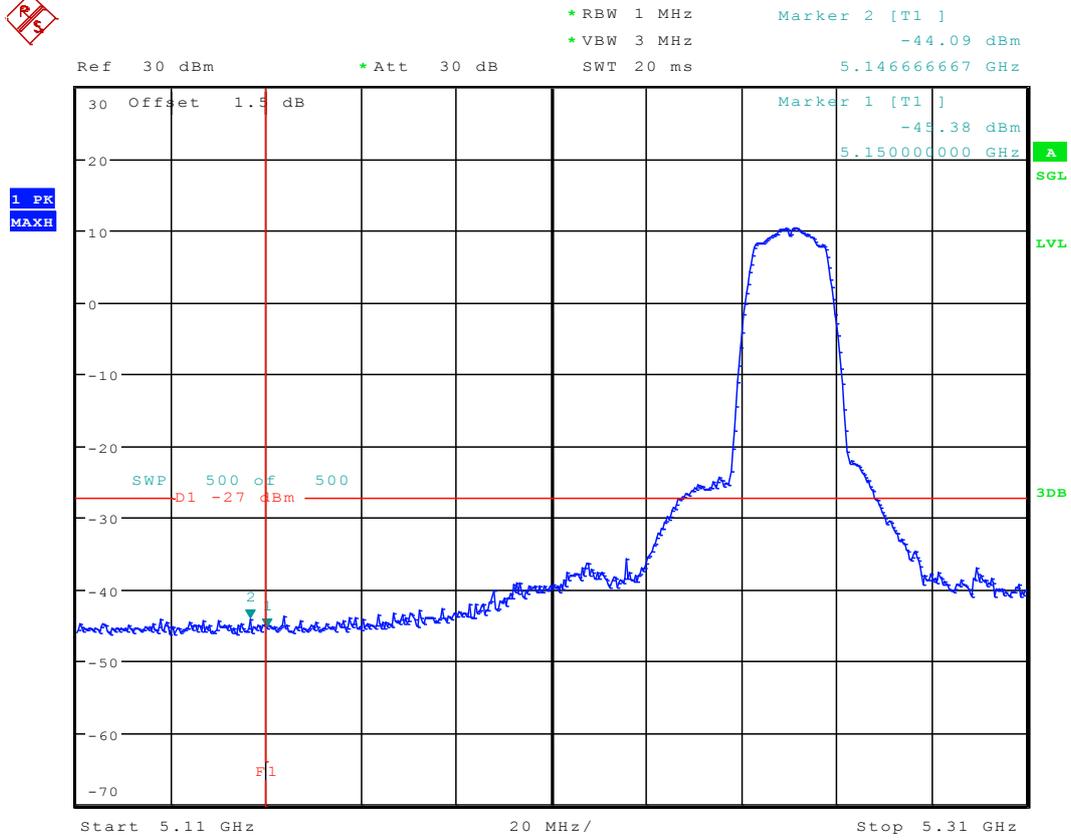
Date: 12.SEP.2016 11:45:19

## 12.2 11A\_48 Ant 1



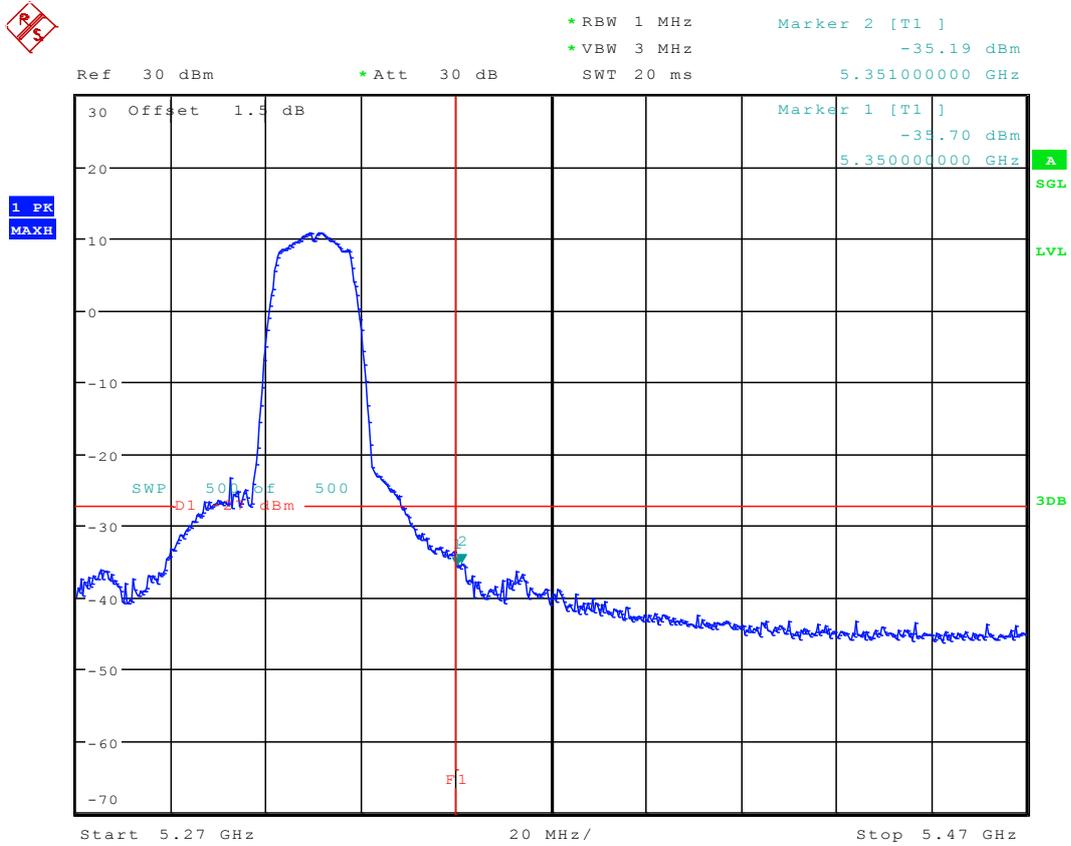
Date: 12.SEP.2016 11:48:32

## 12.3 11A\_52 Ant 1



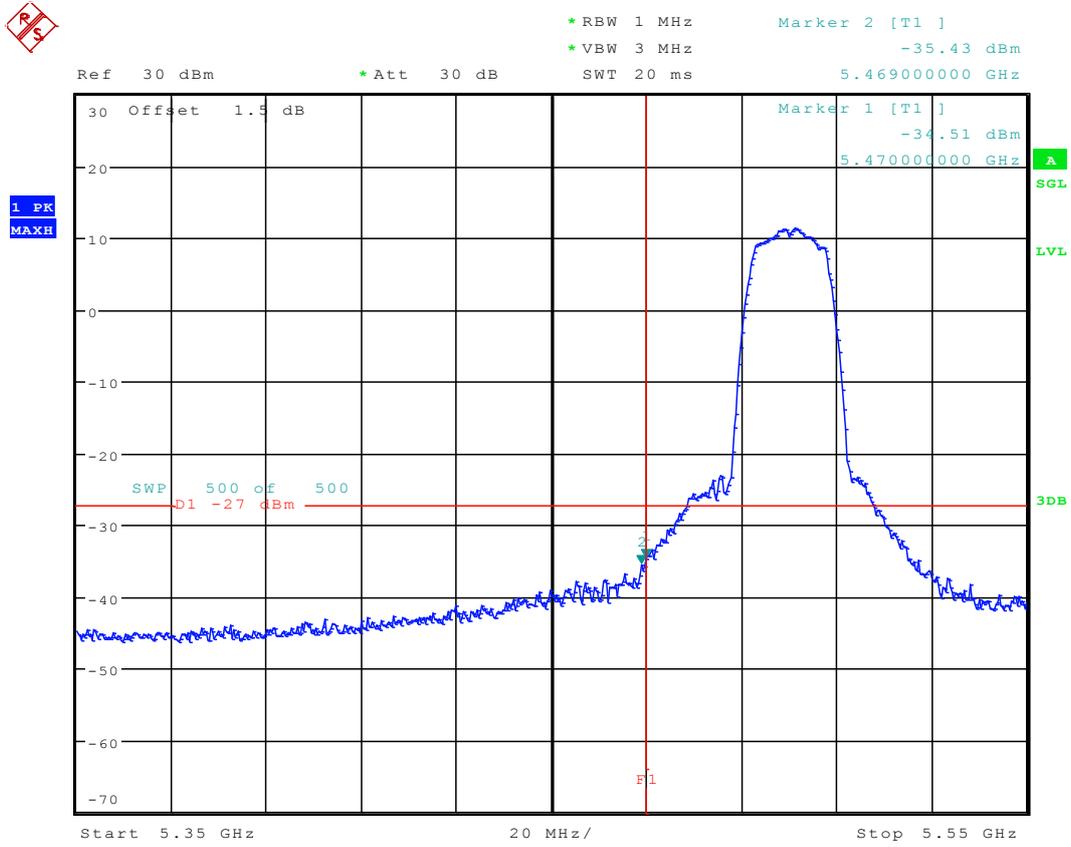
Date: 12.SEP.2016 11:52:50

### 12.4 11A\_64 Ant 1



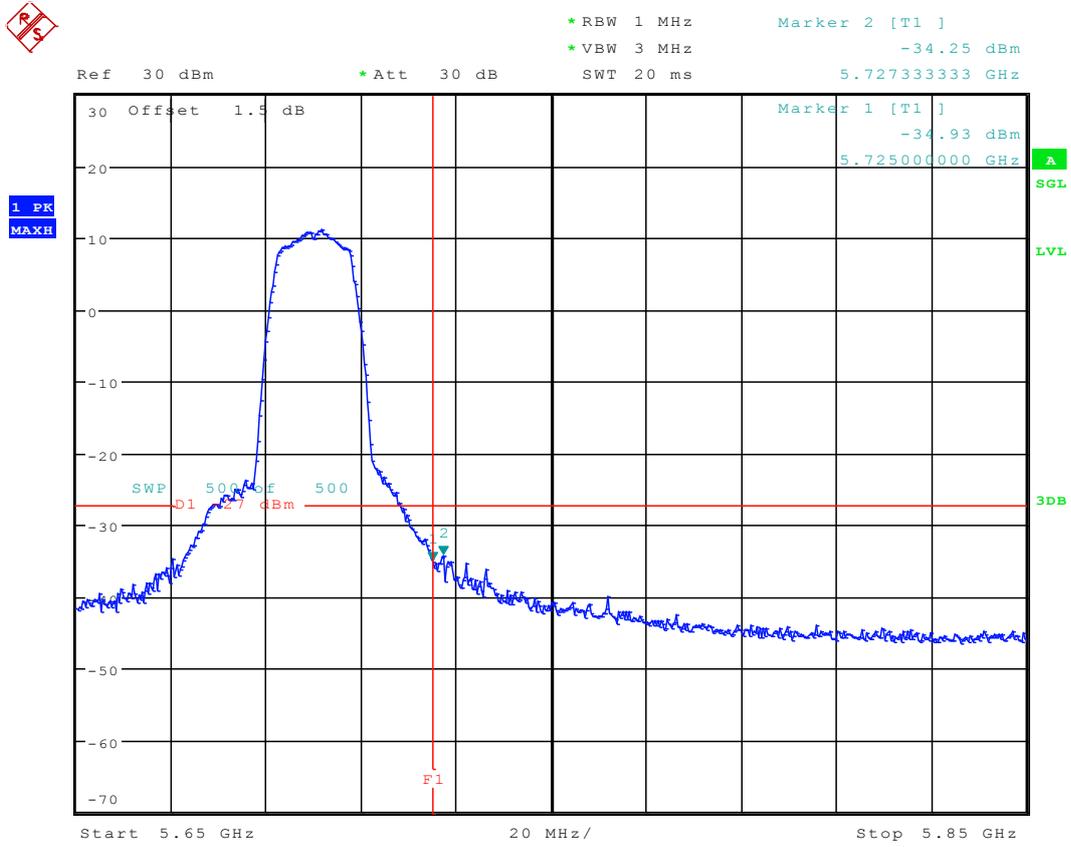
Date: 12.SEP.2016 12:14:13

### 12.5 11A\_100 Ant 1



Date: 12.SEP.2016 12:36:23

### 12.6 11A\_140 Ant 1

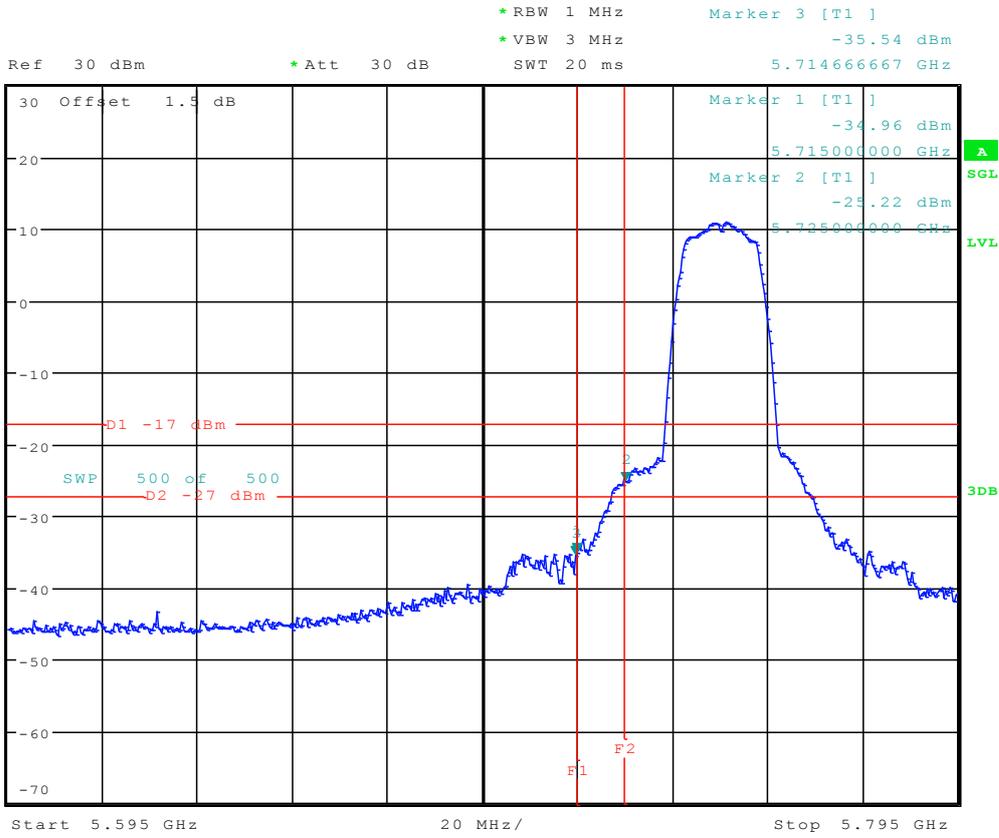


Date: 12.SEP.2016 12:53:07

### 12.7 11A\_149 Ant 1

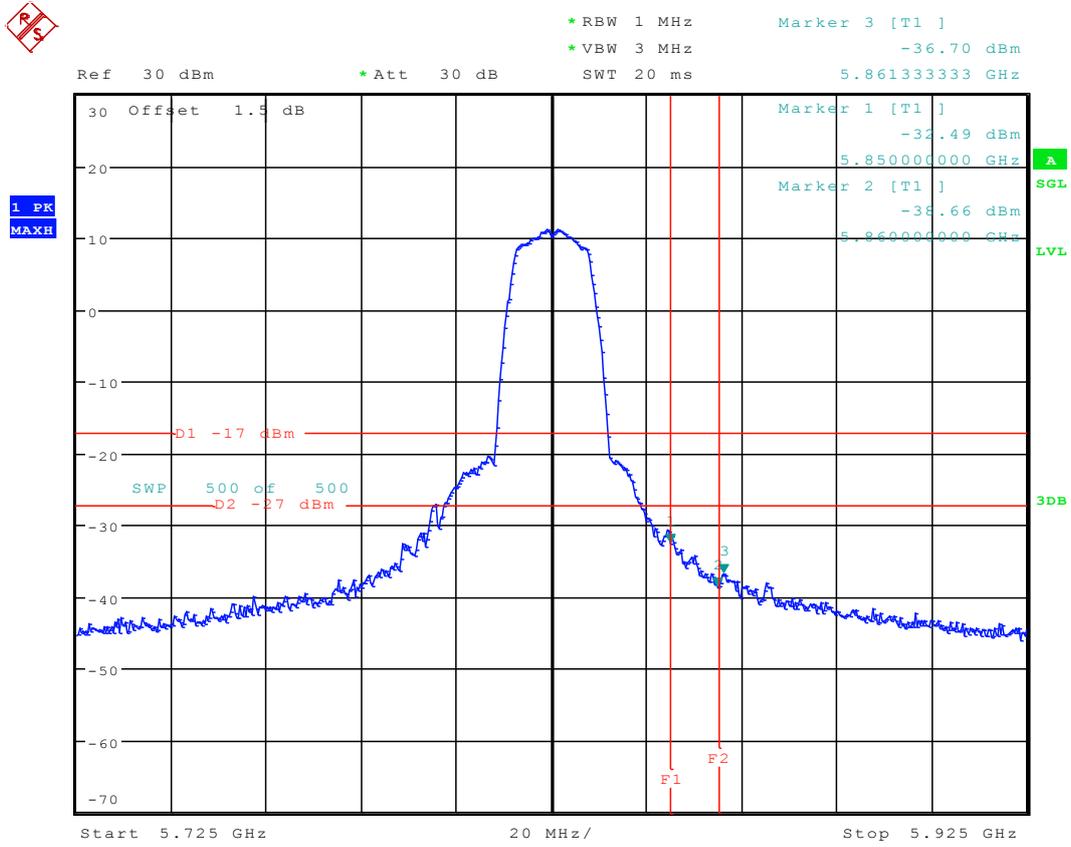


1 PK  
MAXH



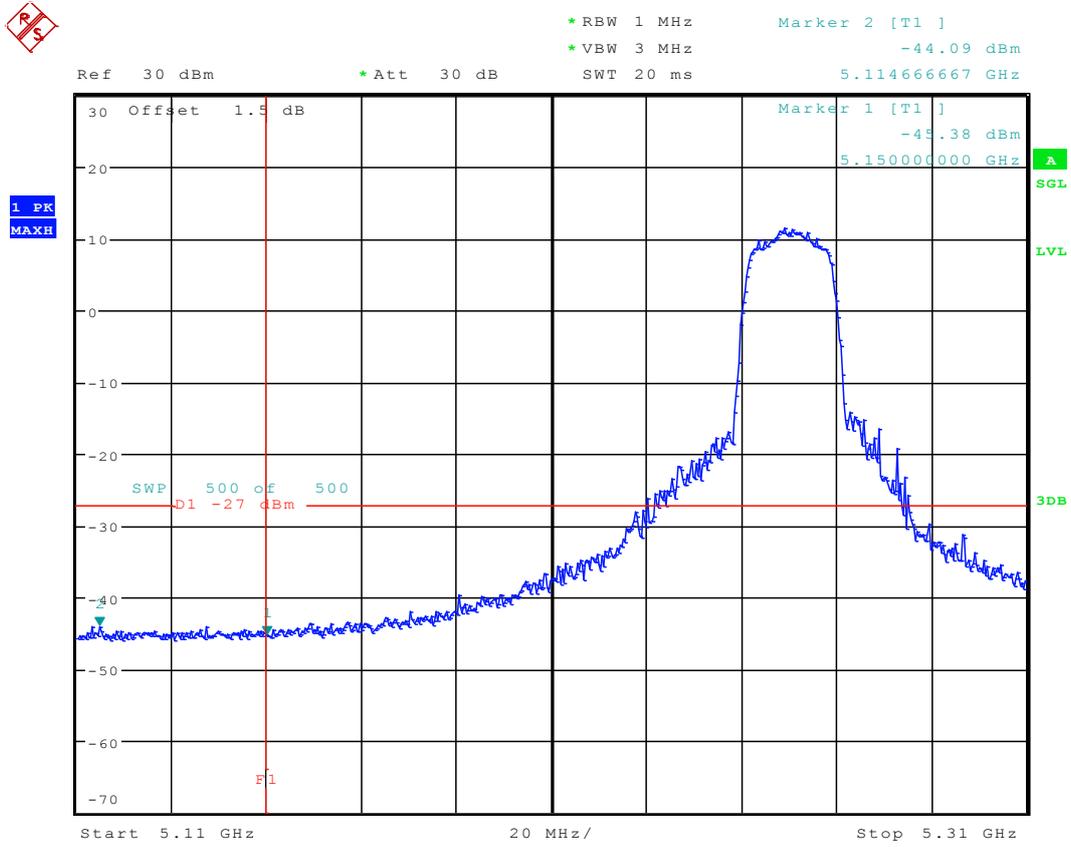
Date: 12.SEP.2016 12:59:12

## 12.8 11A\_165 Ant 1



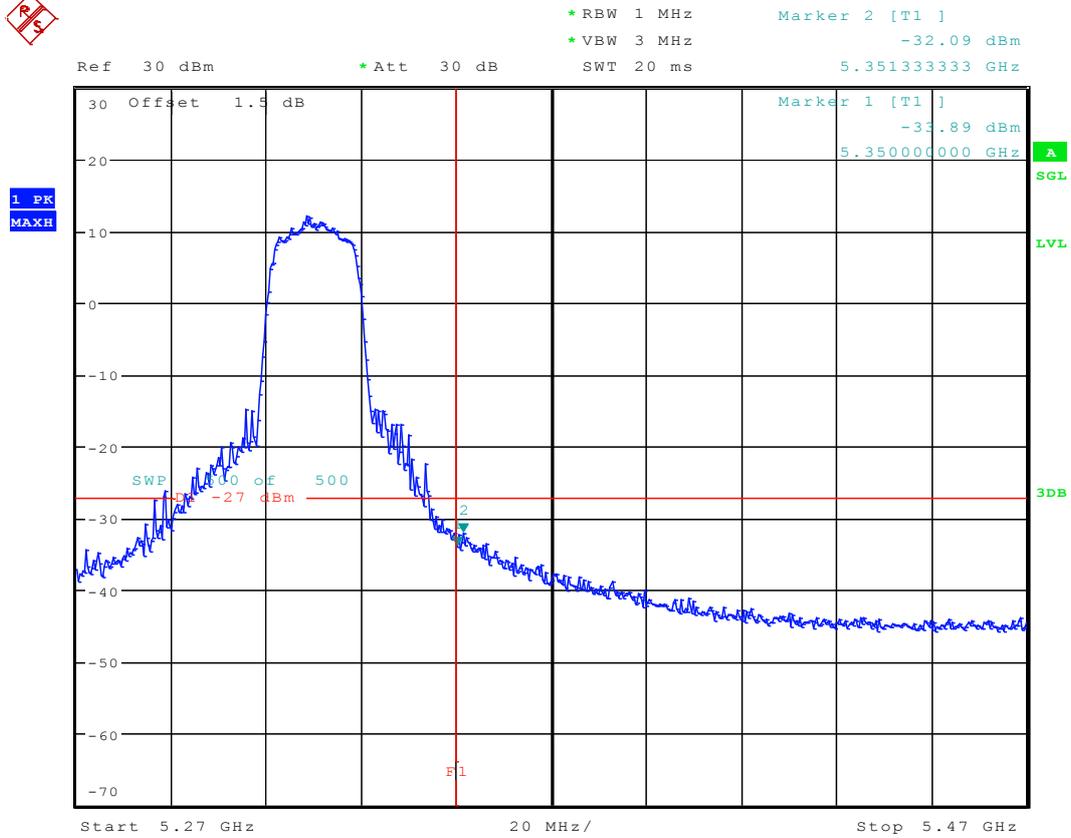
Date: 12.SEP.2016 13:03:21

### 12.9 11N20\_36 Ant 1



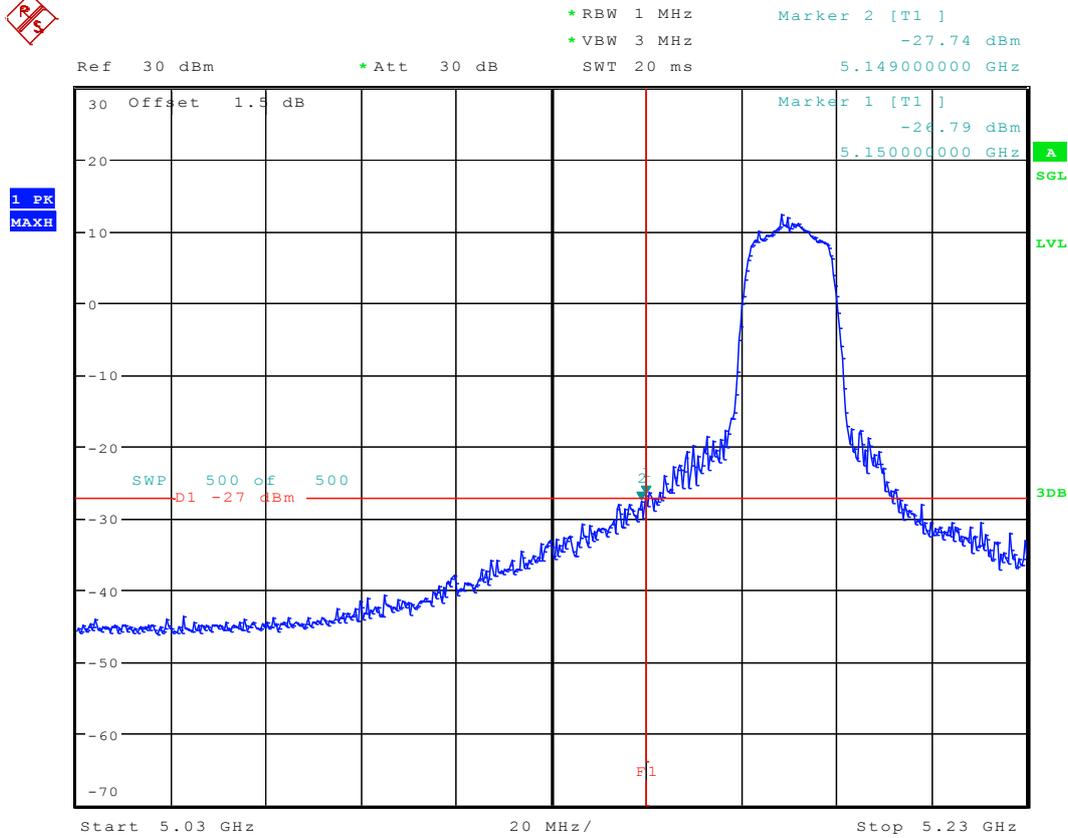
Date: 15.AUG.2016 11:00:36

## 12.10 11N20\_48 Ant 1



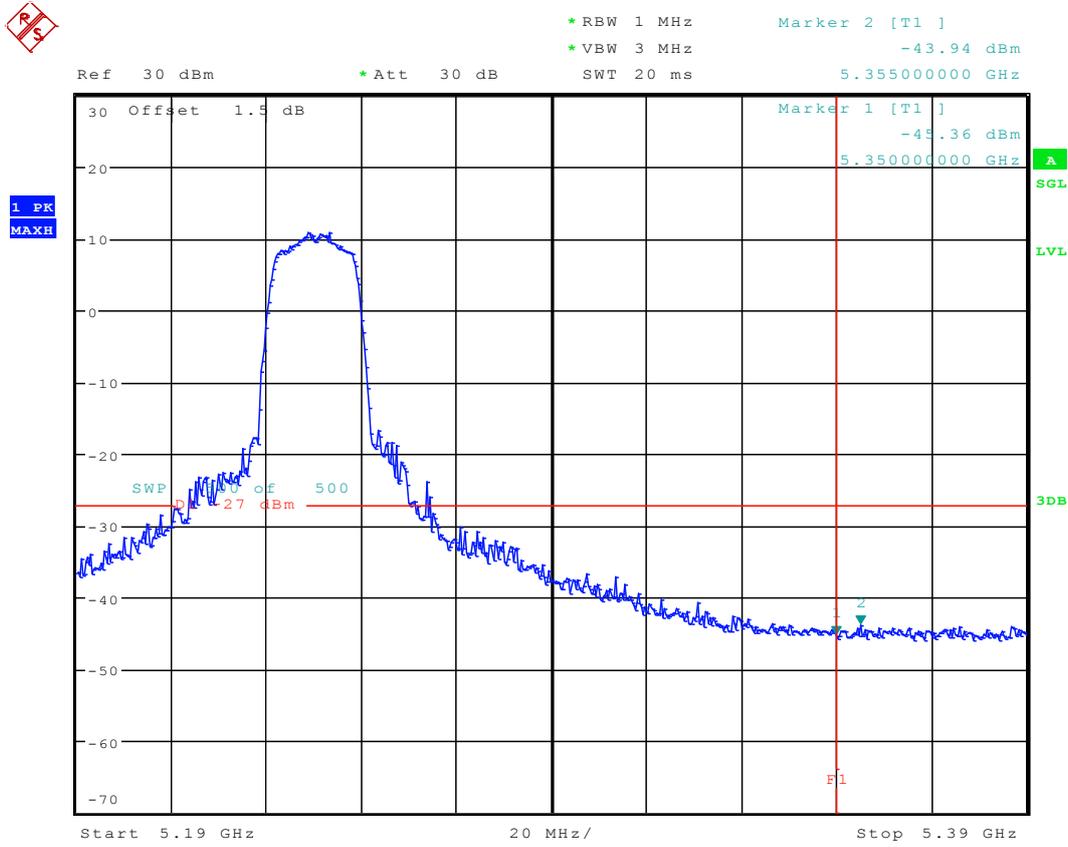
Date: 15.AUG.2016 11:06:23

### 12.11 11N20\_52 Ant 1



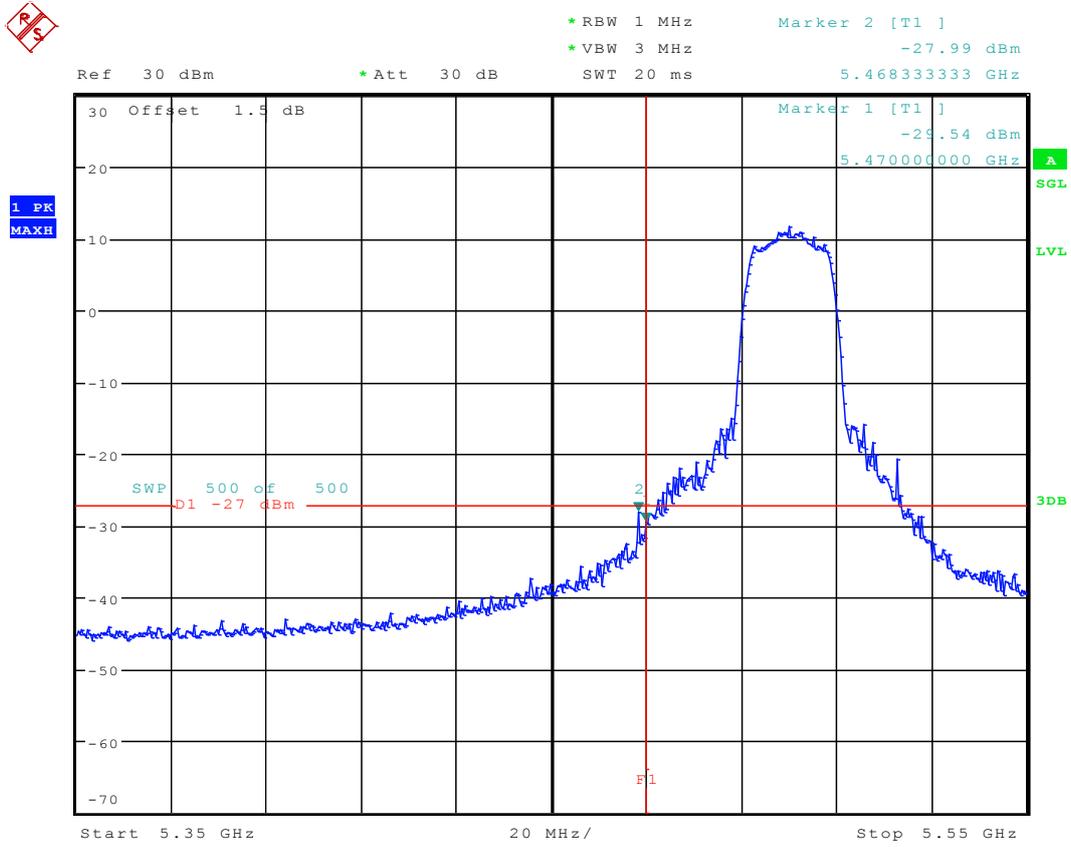
Date: 15.AUG.2016 10:42:11

### 12.12 11N20\_64 Ant 1



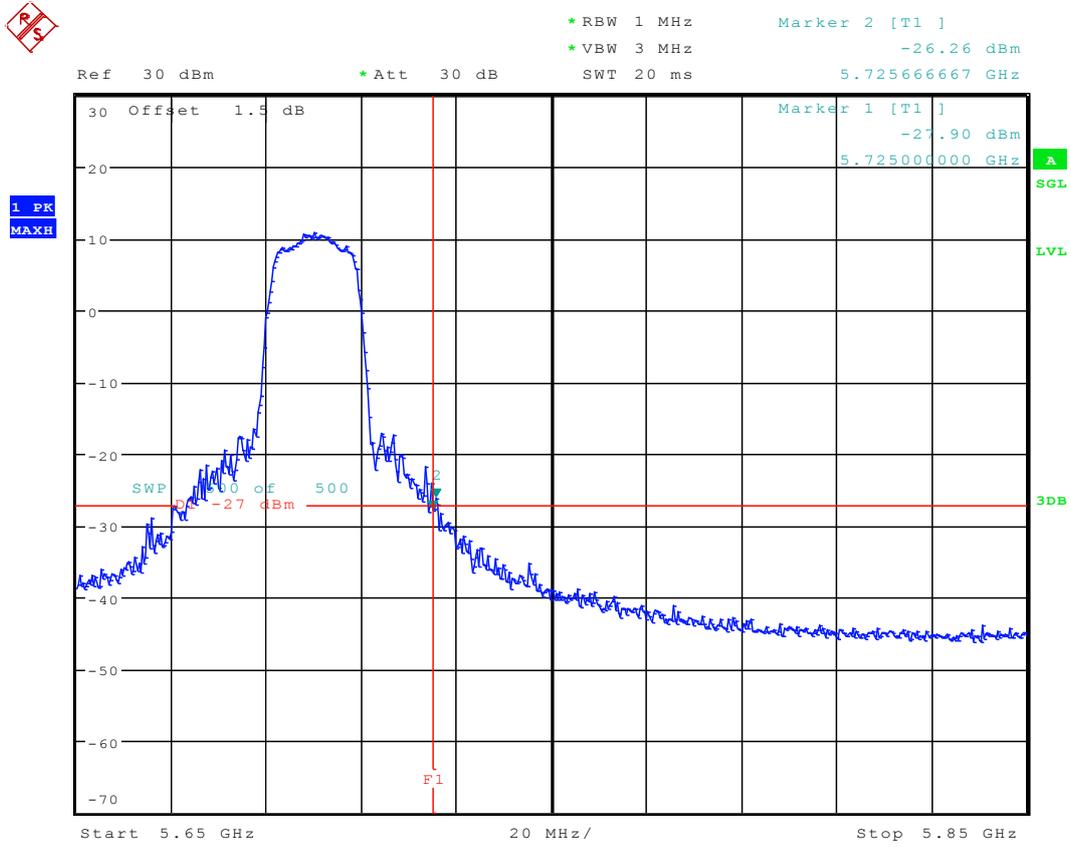
Date: 15.AUG.2016 10:47:56

## 12.13 11N20\_100 Ant 1



Date: 15.AUG.2016 11:14:18

### 12.14 11N20\_140 Ant 1

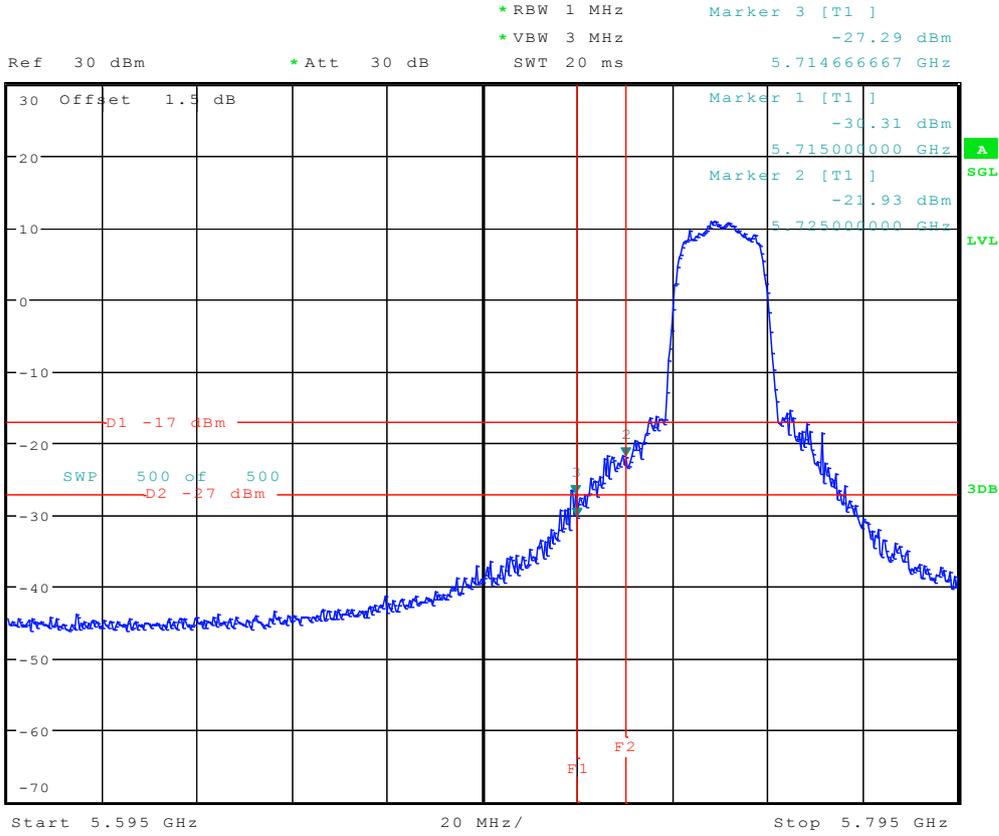


Date: 15.AUG.2016 11:20:04

### 12.15 11N20\_149 Ant 1

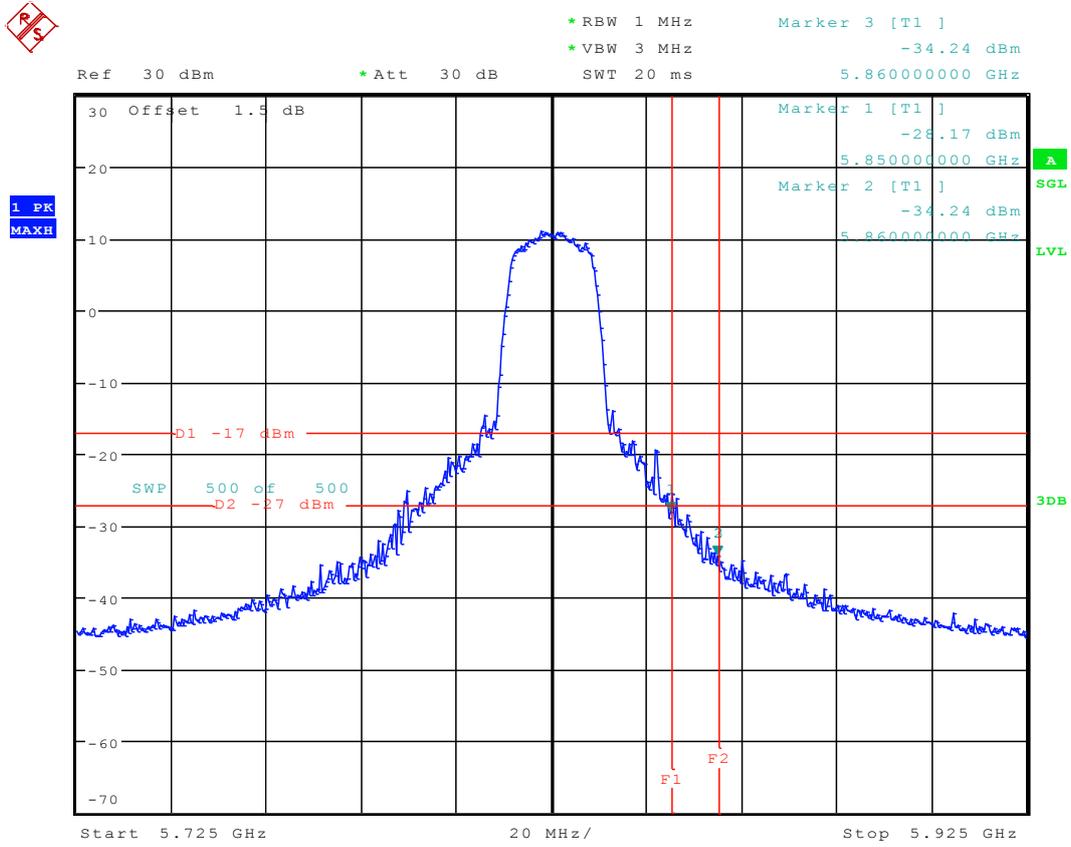


1 PK  
MAXH



Date: 15.AUG.2016 11:30:57

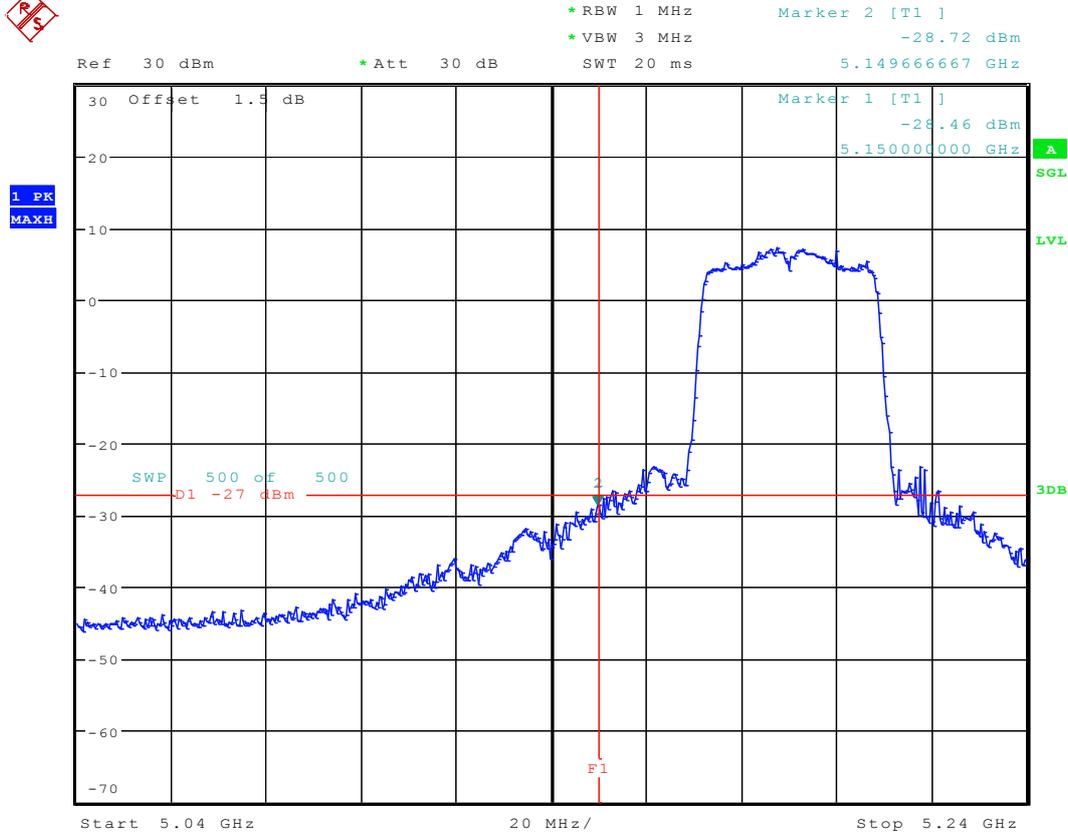
## 12.16 11N20\_165 Ant 1



Date: 15.AUG.2016 11:34:38



### 12.17 11N40\_38 Ant 1

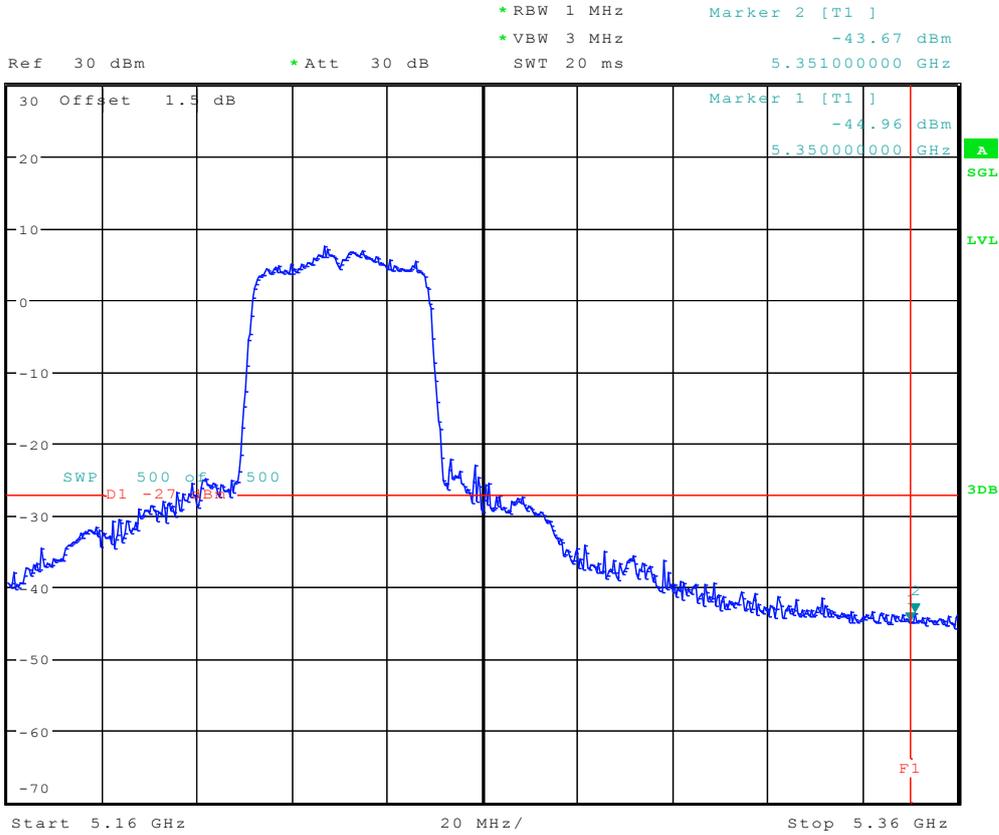


Date: 15.AUG.2016 11:39:15

### 12.18 11N40\_46 Ant 1

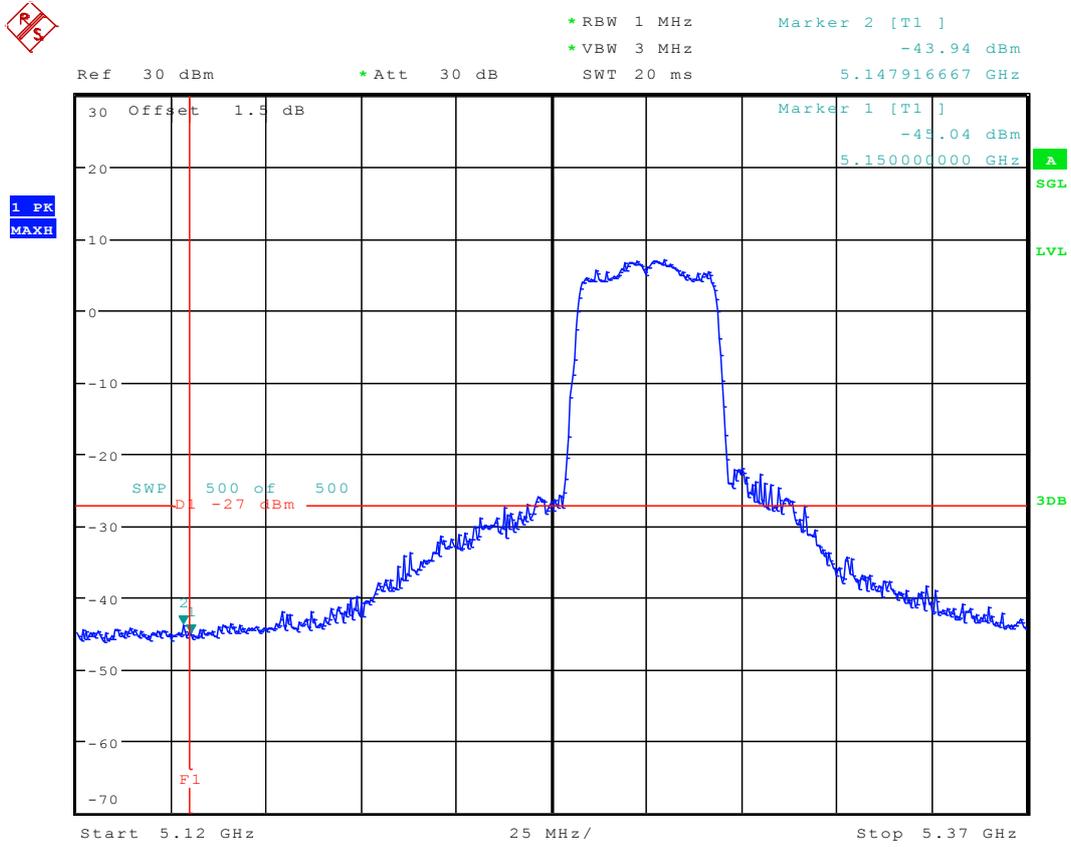


1 PK  
MAXH



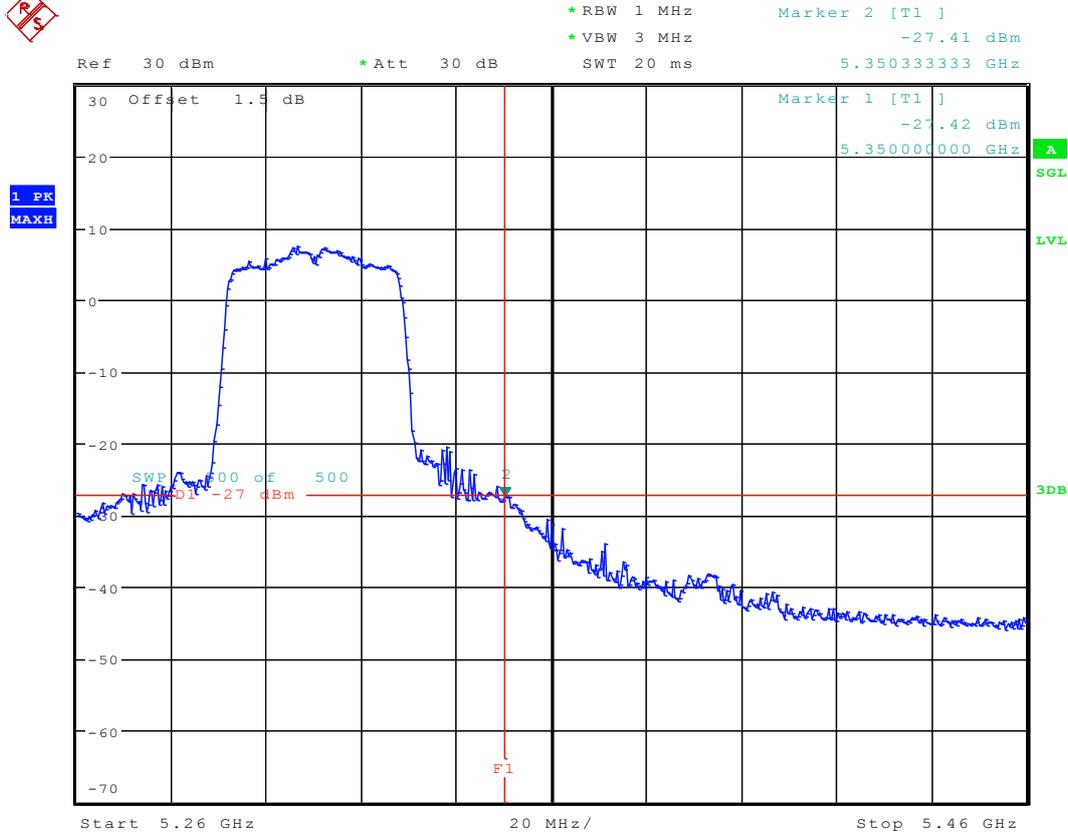
Date: 15.AUG.2016 11:42:47

## 12.19 11N40\_54 Ant 1



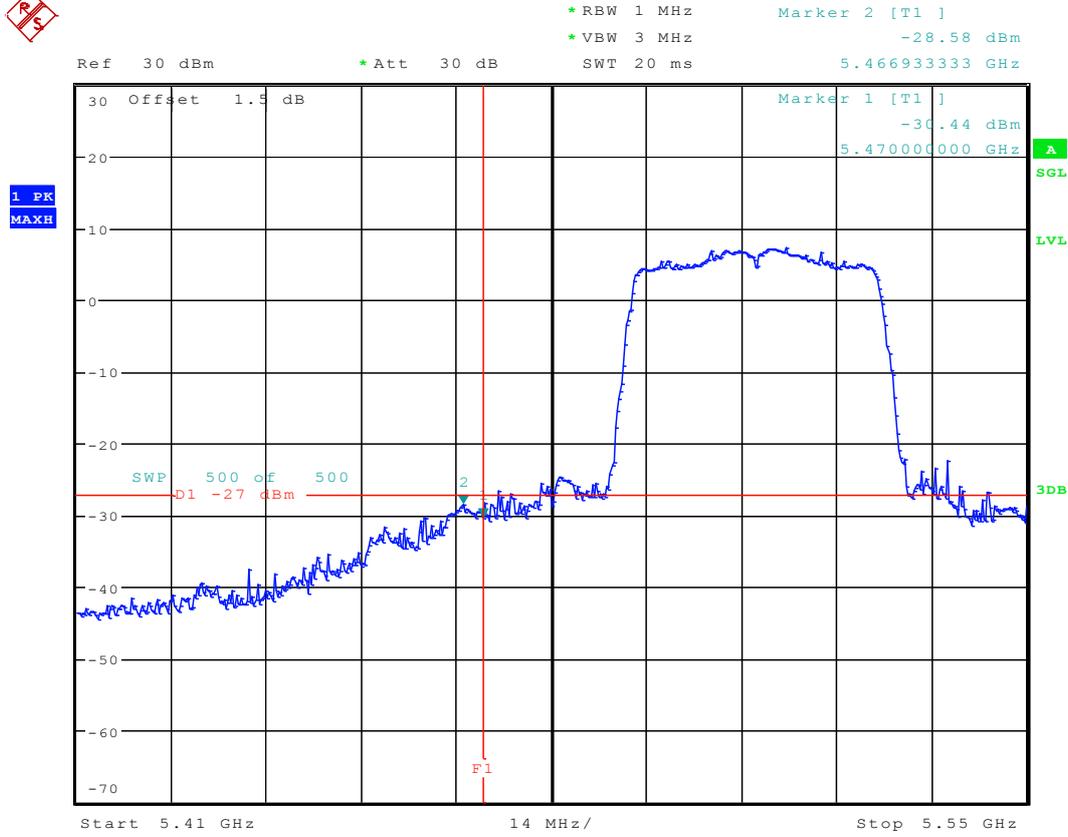
Date: 15.AUG.2016 11:46:12

### 12.20 11N40\_62 Ant 1



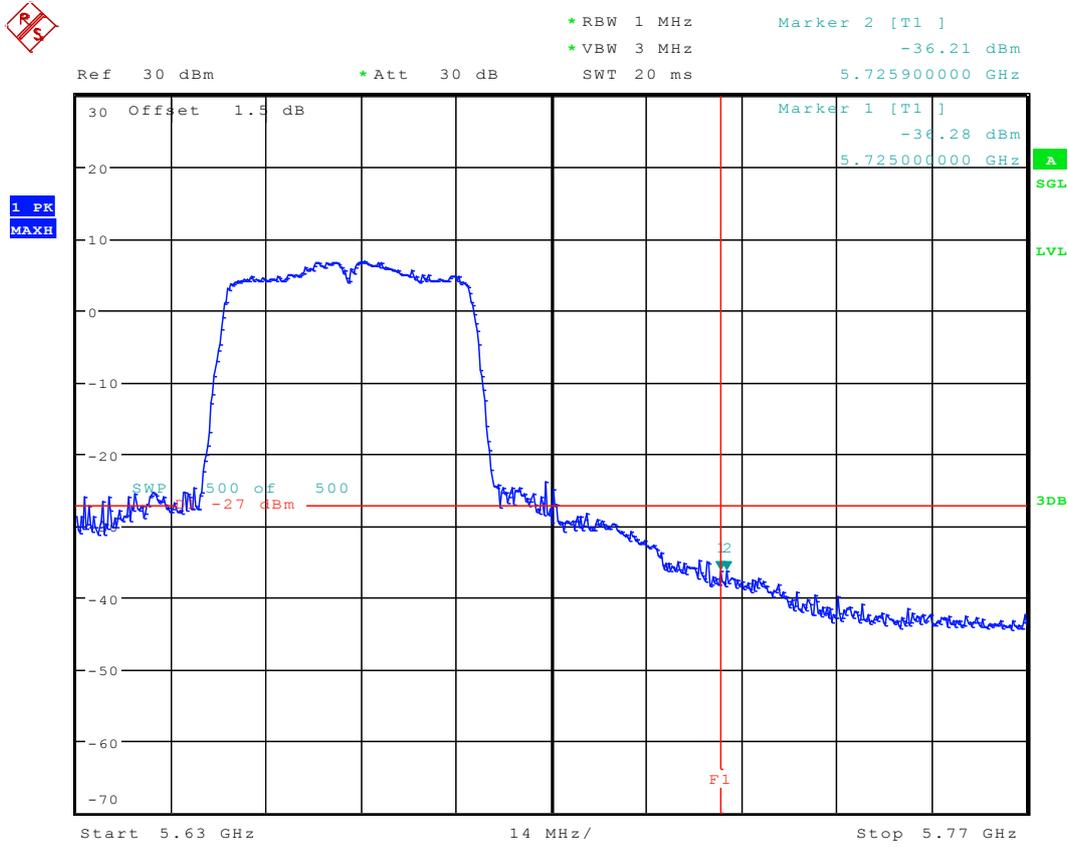
Date: 15.AUG.2016 11:49:34

### 12.21 11N40\_102 Ant 1



Date: 15.AUG.2016 11:52:34

### 12.22 11N40\_134 Ant 1

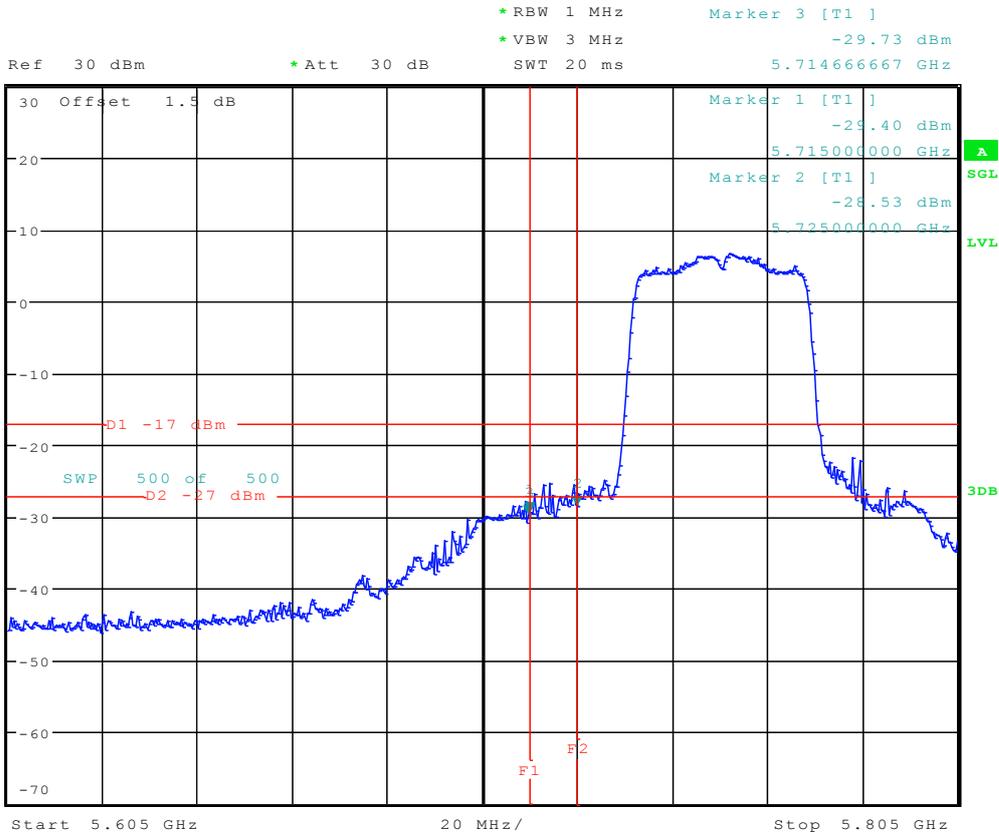


Date: 15.AUG.2016 11:55:08

### 12.23 11N40\_151 Ant 1

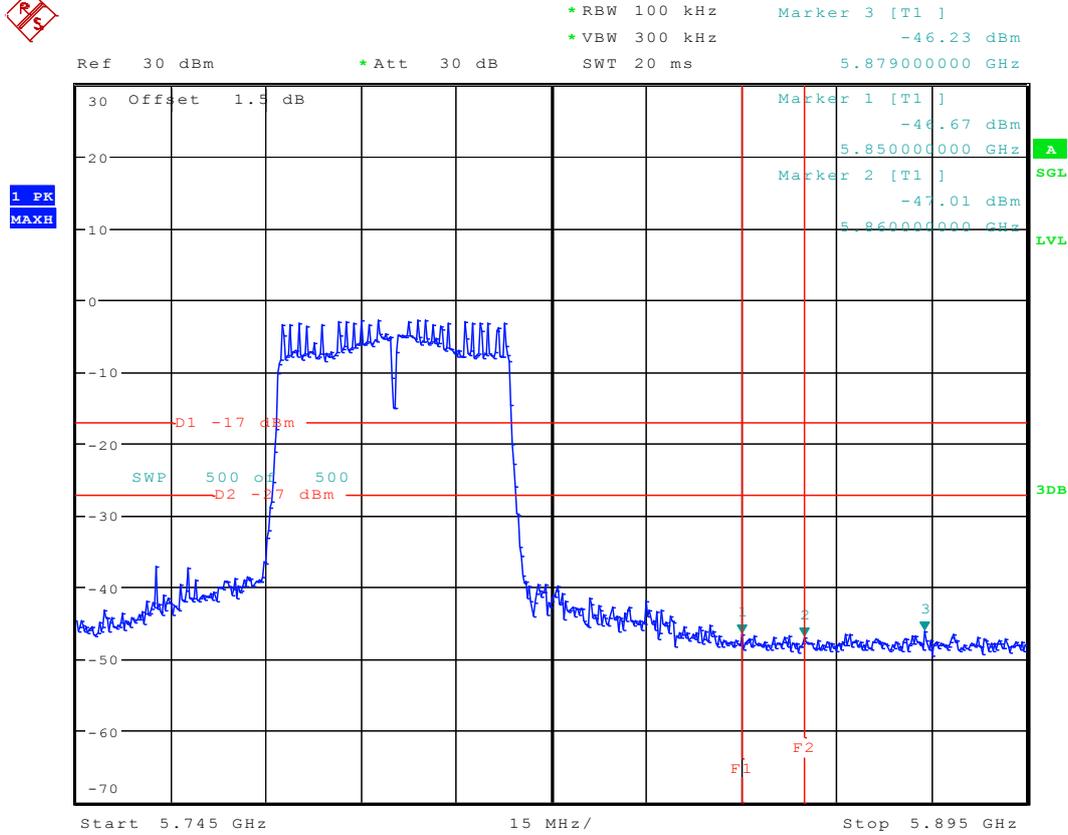


1 PK  
MAXH



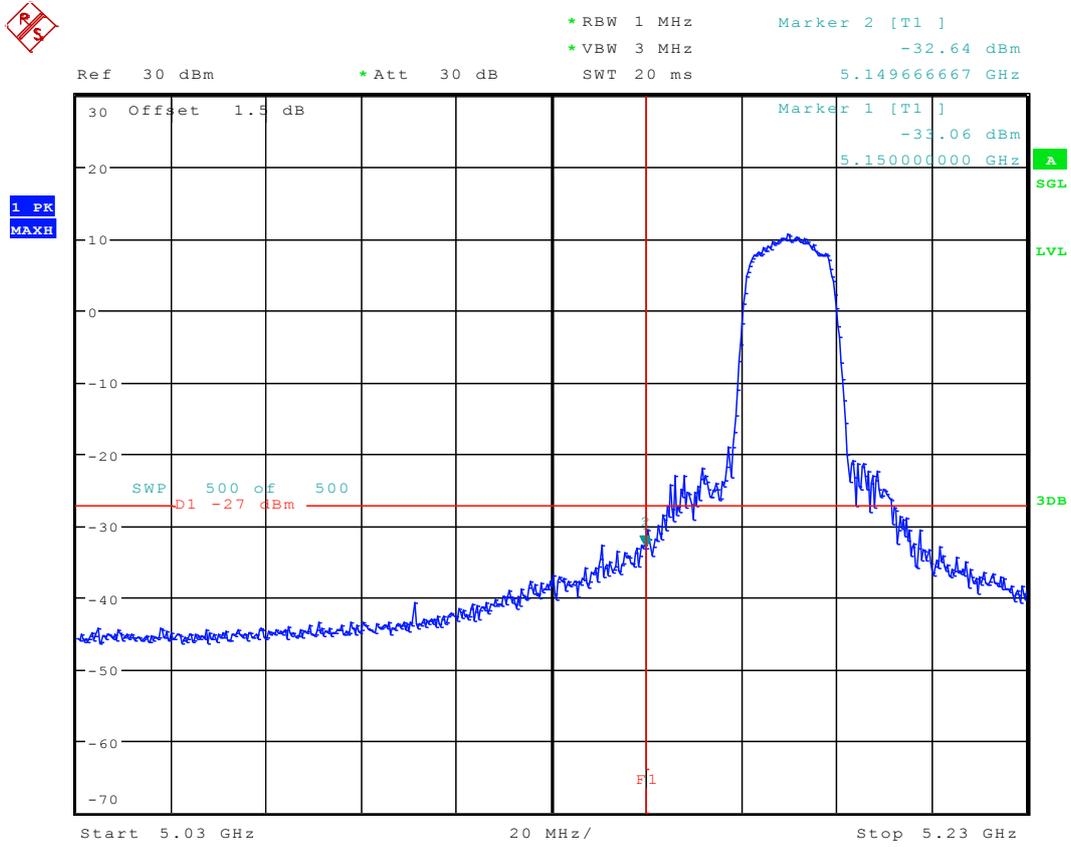
Date: 15.AUG.2016 11:59:06

### 12.24 11N40\_159 Ant 1



Date: 15.AUG.2016 12:02:03

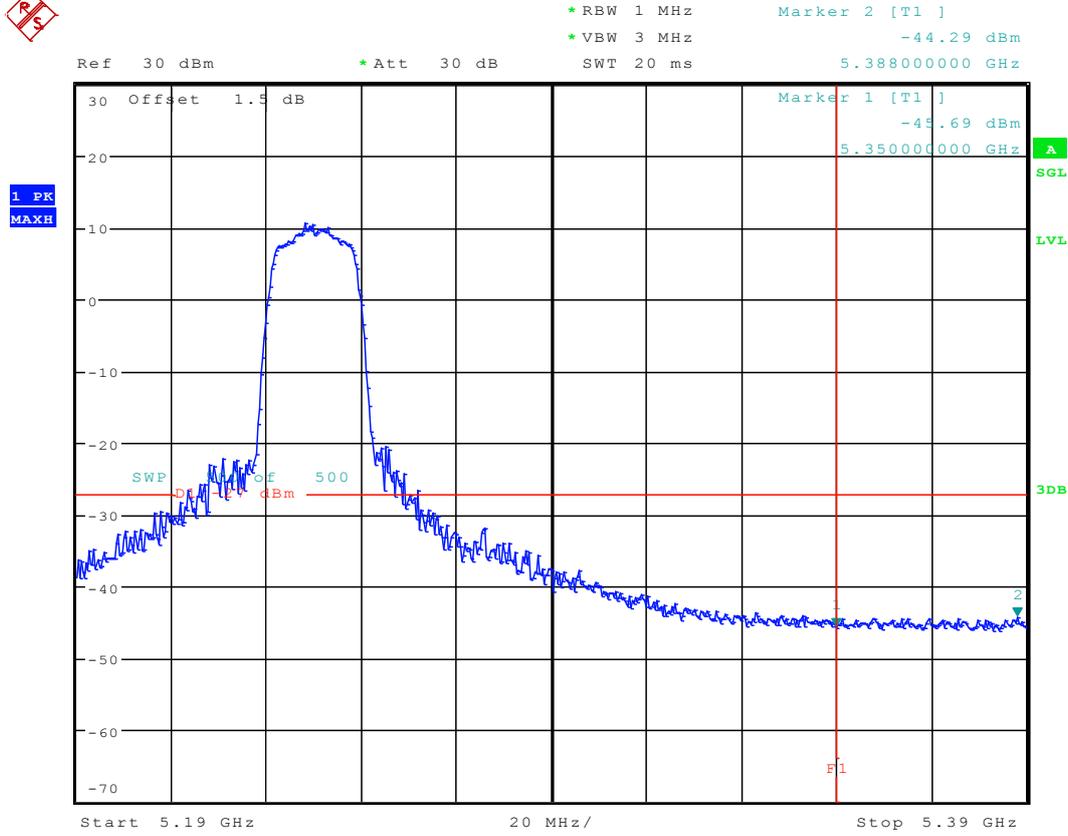
## 12.25 11AC20\_36 Ant 1



Date: 15.AUG.2016 12:21:28

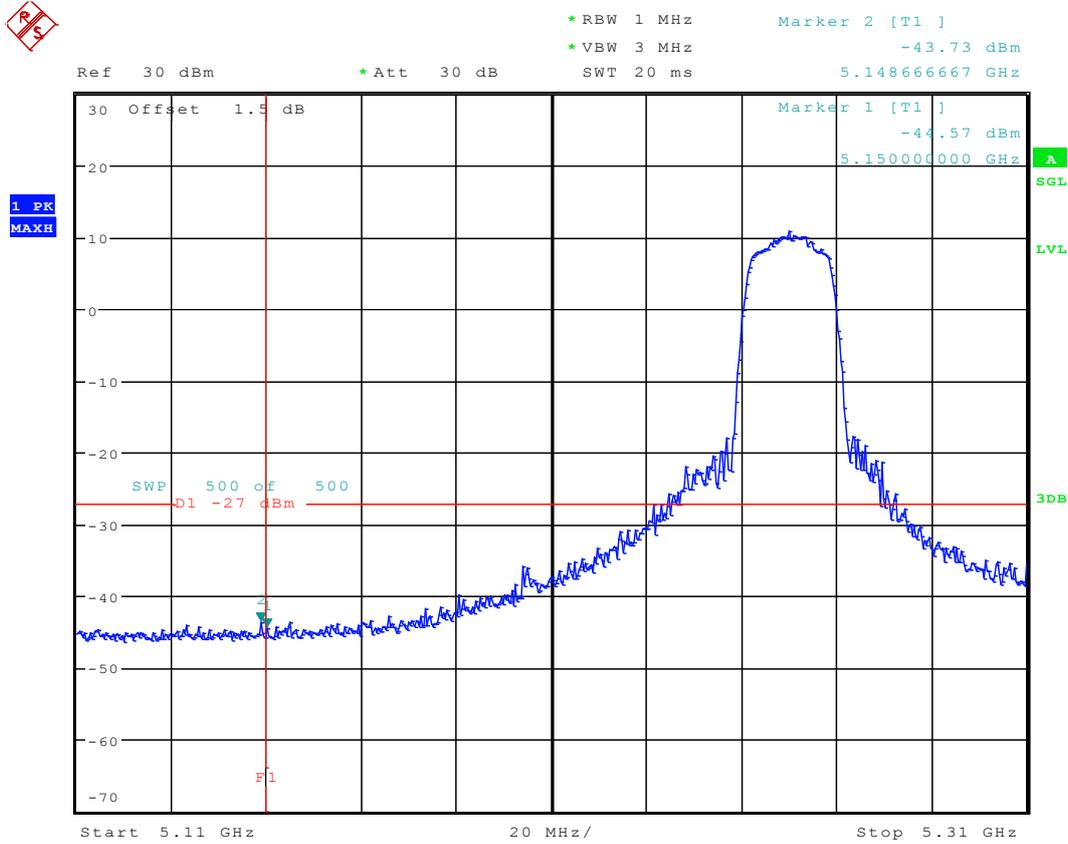


### 12.26 11AC20\_48 Ant 1



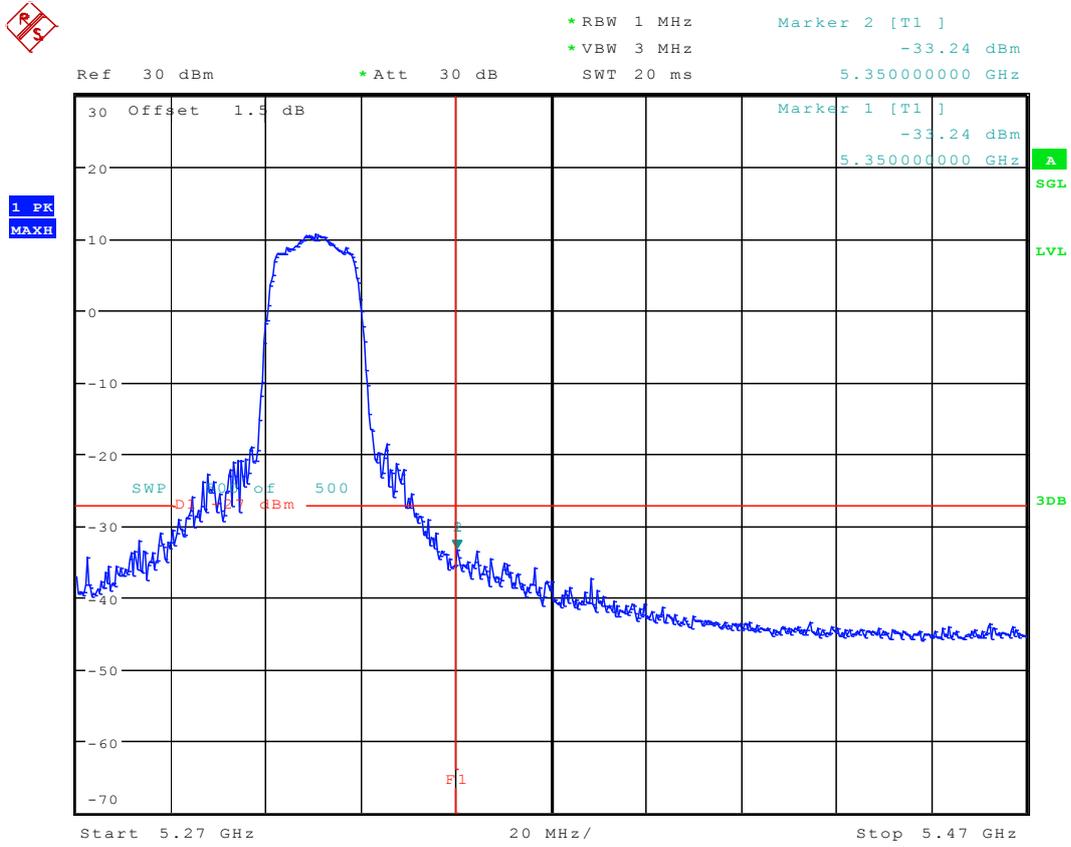
Date: 15.AUG.2016 12:49:41

### 12.27 11AC20\_52 Ant 1



Date: 15.AUG.2016 12:54:49

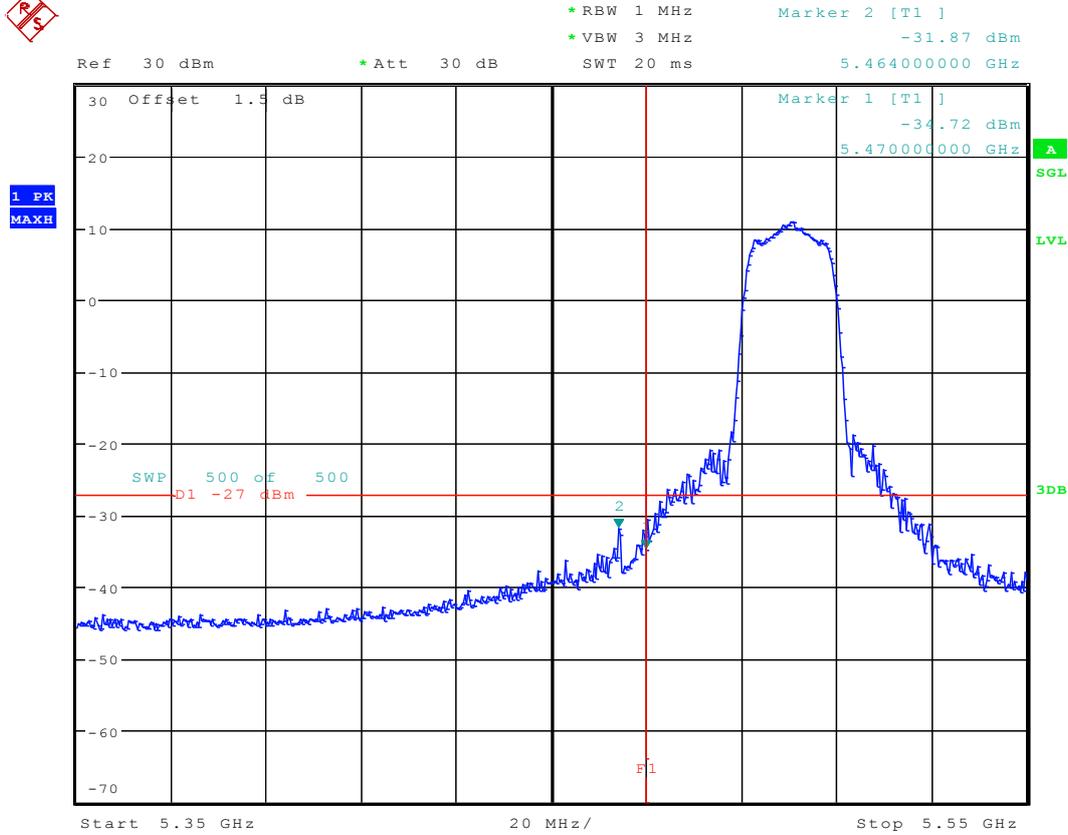
### 12.28 11AC20\_64 Ant 1



Date: 15.AUG.2016 12:57:56

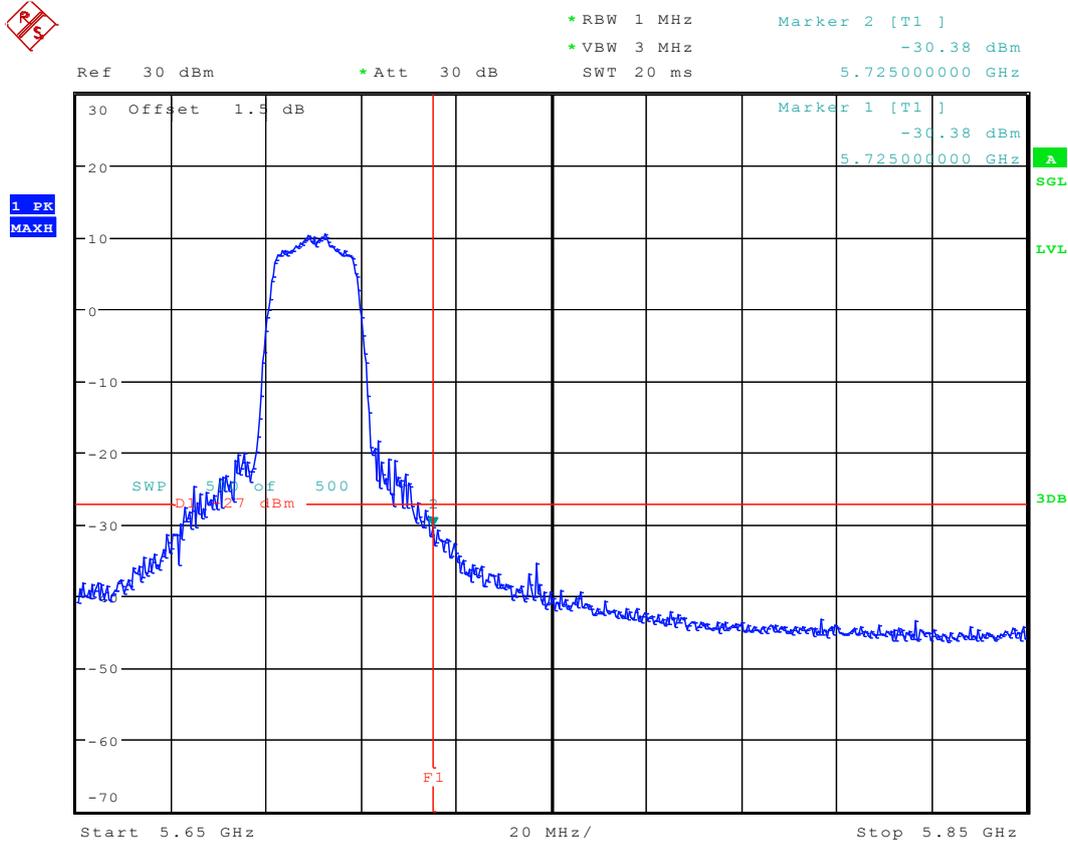


### 12.29 11AC20\_100 Ant 1



Date: 15.AUG.2016 13:01:13

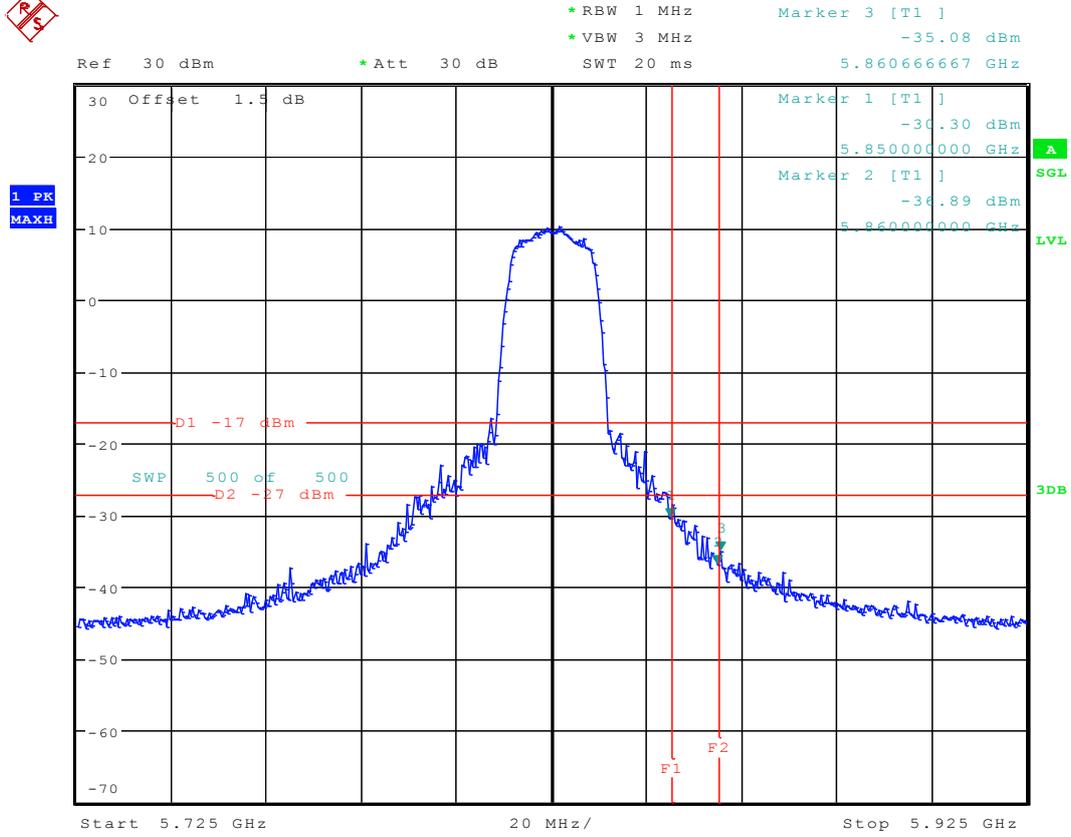
### 12.30 11AC20\_140 Ant 1



Date: 15.AUG.2016 13:04:22

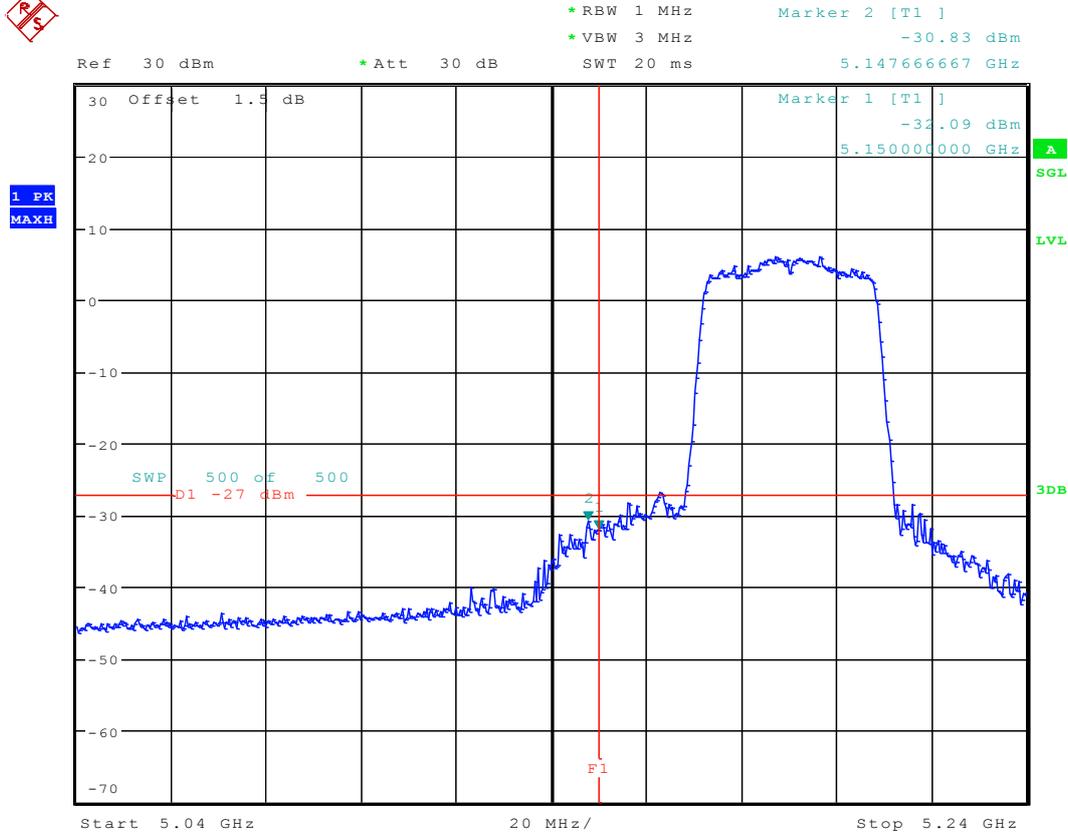


### 12.32 11AC20\_165 Ant 1



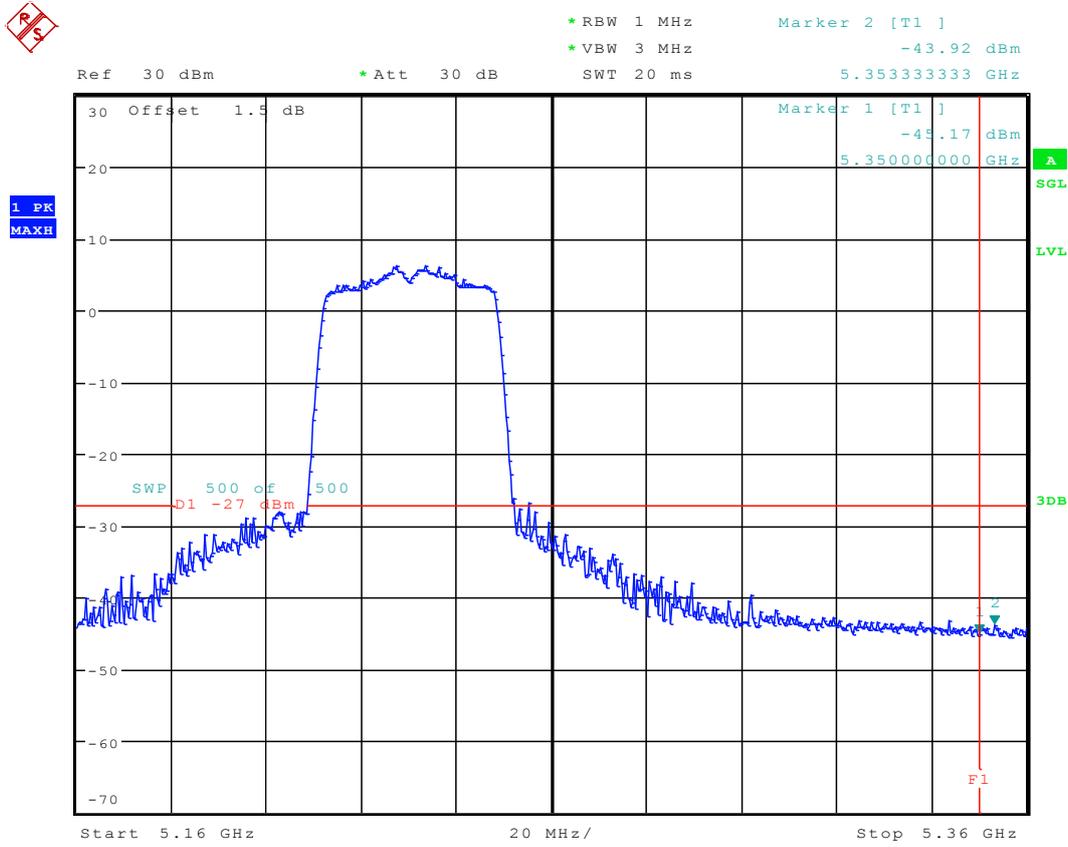
Date: 15.AUG.2016 13:12:06

### 12.33 11AC40\_38 Ant 1



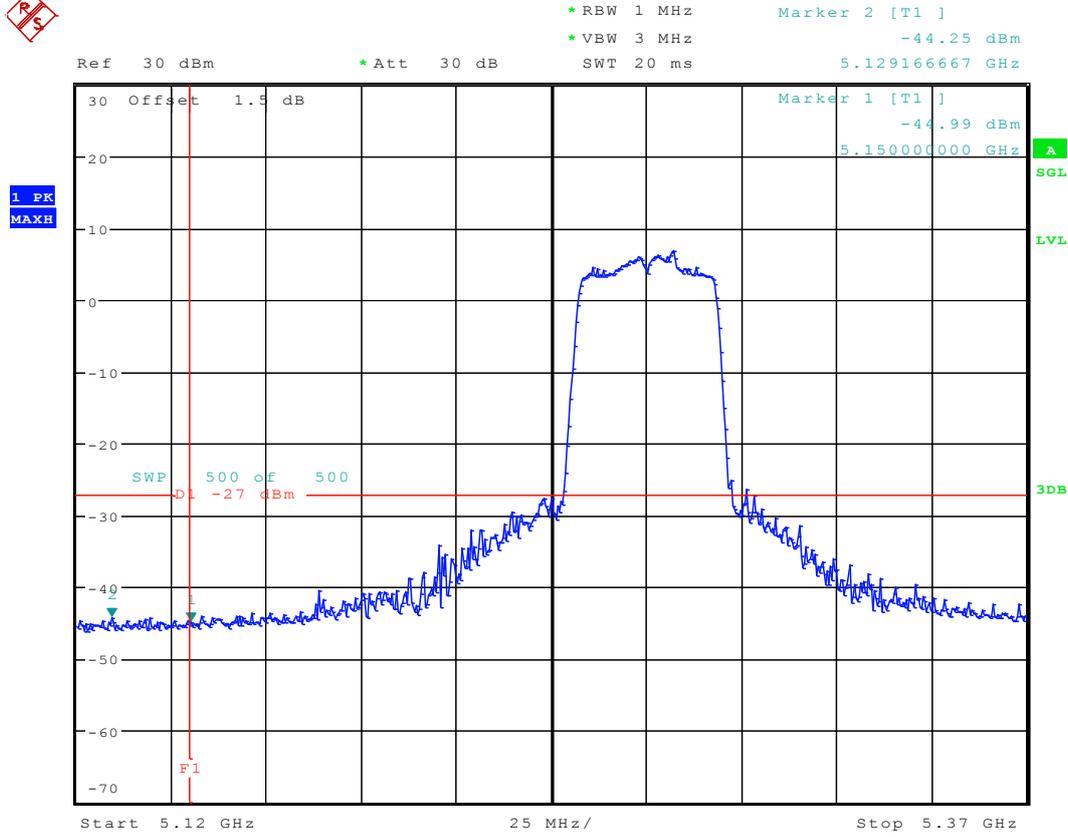
Date: 15.AUG.2016 13:29:34

### 12.34 11AC40\_46 Ant 1



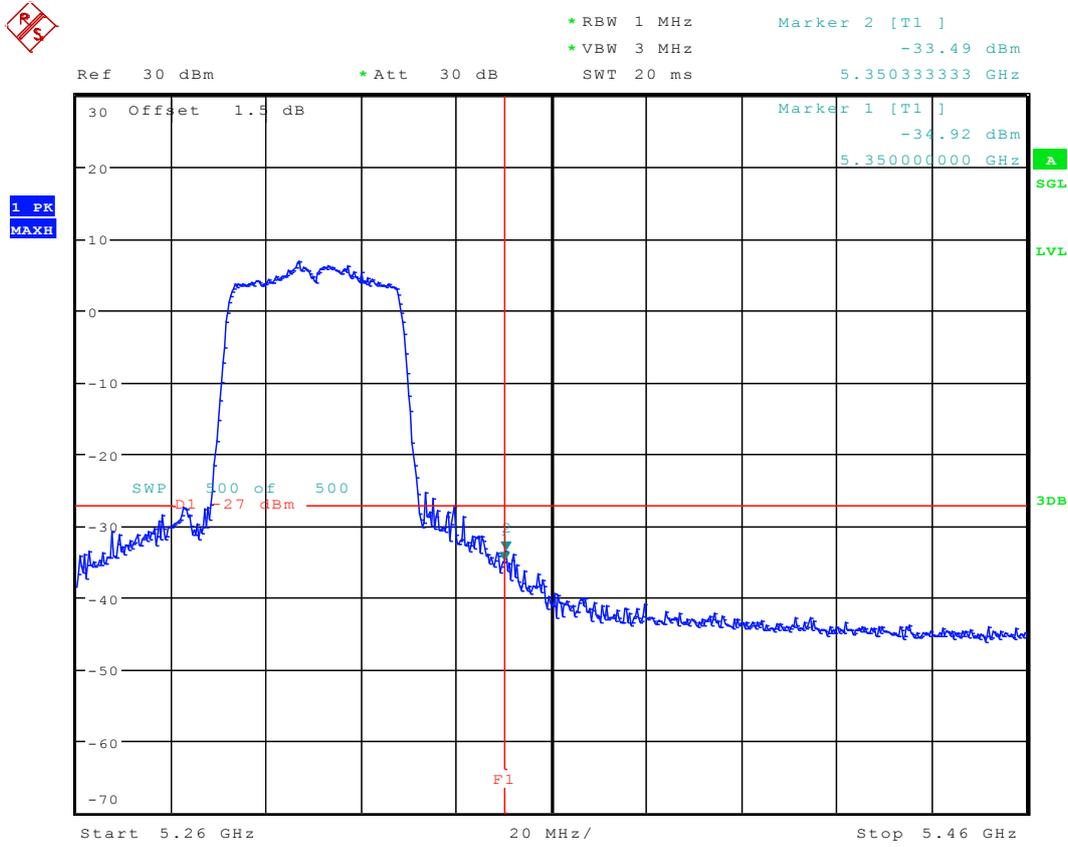
Date: 15.AUG.2016 13:32:45

### 12.35 11AC40\_54 Ant 1



Date: 15.AUG.2016 13:36:17

### 12.36 11AC40\_62 Ant 1

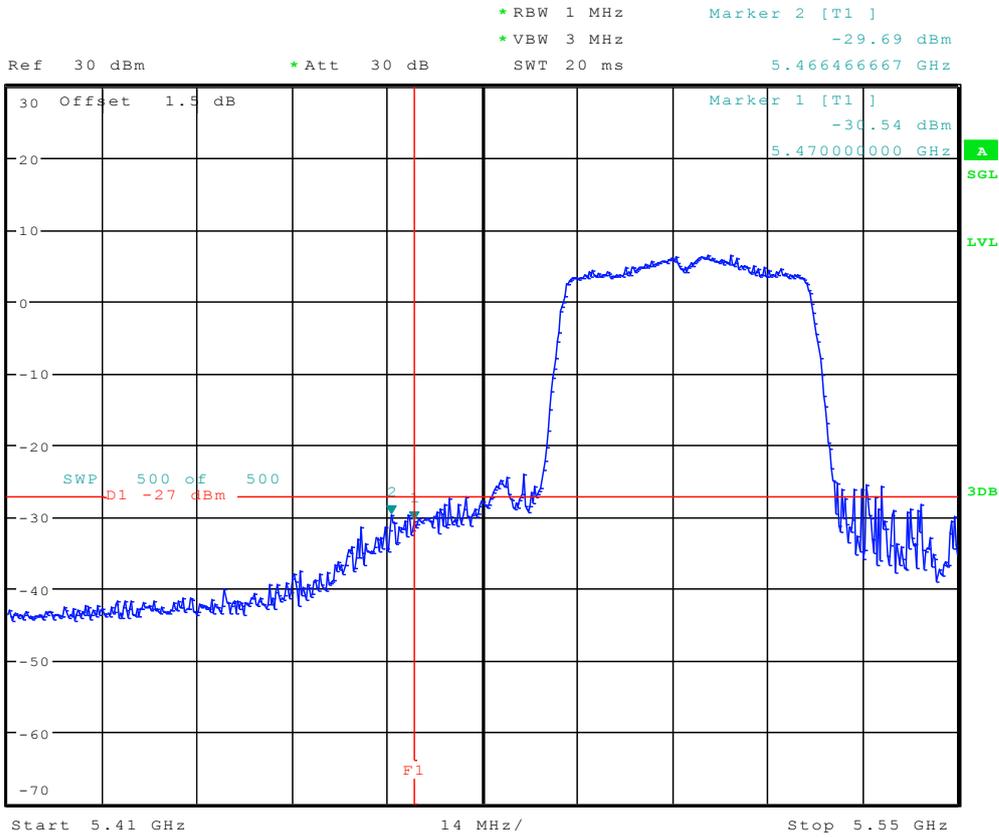


Date: 15.AUG.2016 13:41:25

### 12.37 11AC40\_102 Ant 1

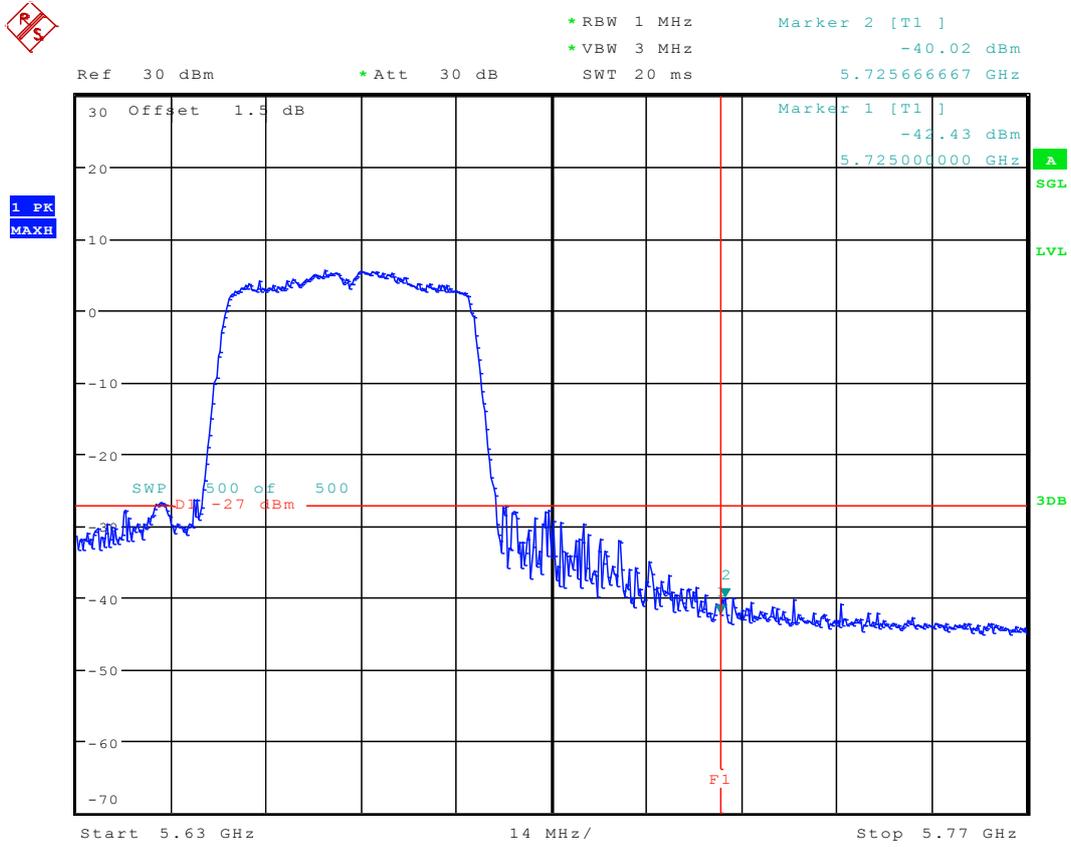


1 PK  
MAXH



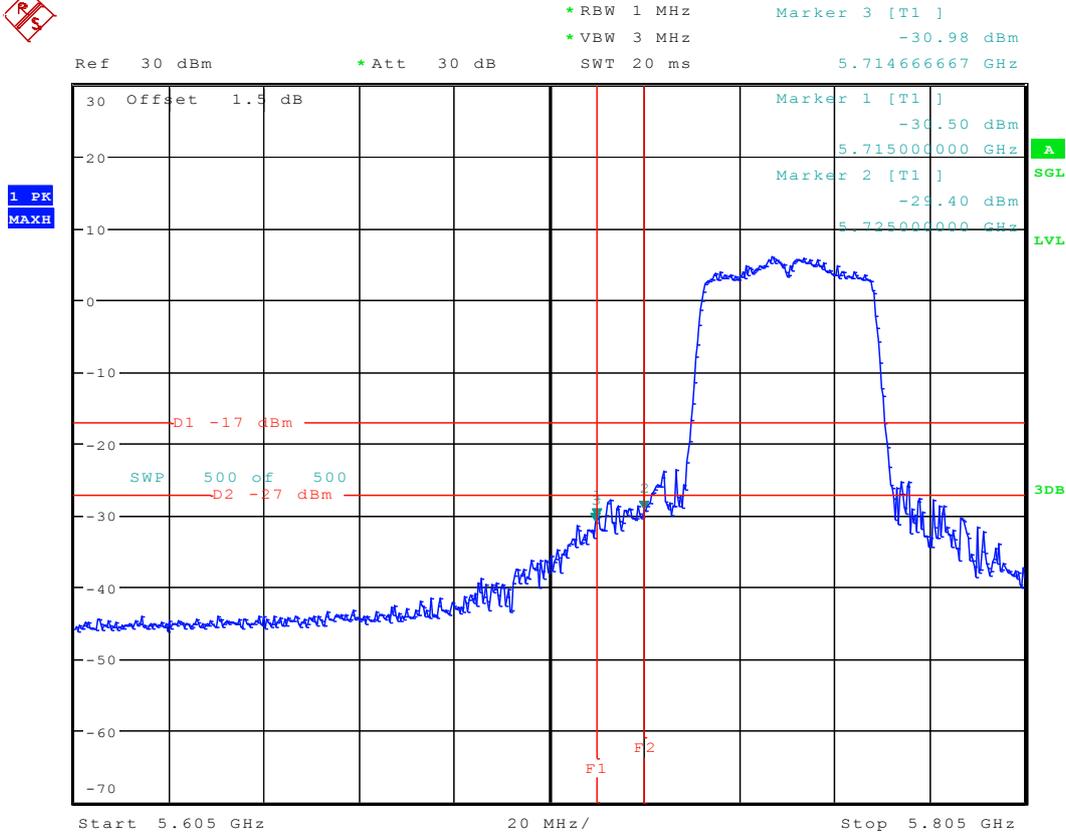
Date: 15.AUG.2016 13:23:31

## 12.38 11AC40\_134 Ant 1



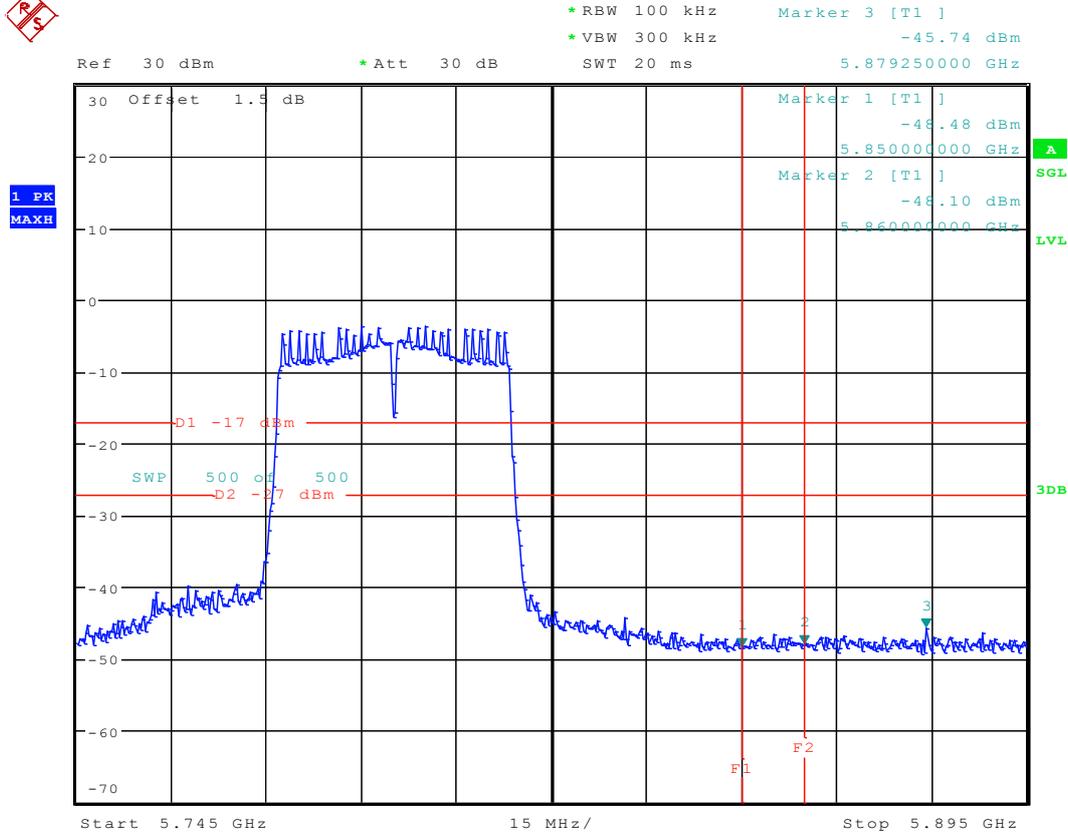
Date: 15.AUG.2016 13:26:00

### 12.39 11AC40\_151 Ant 1



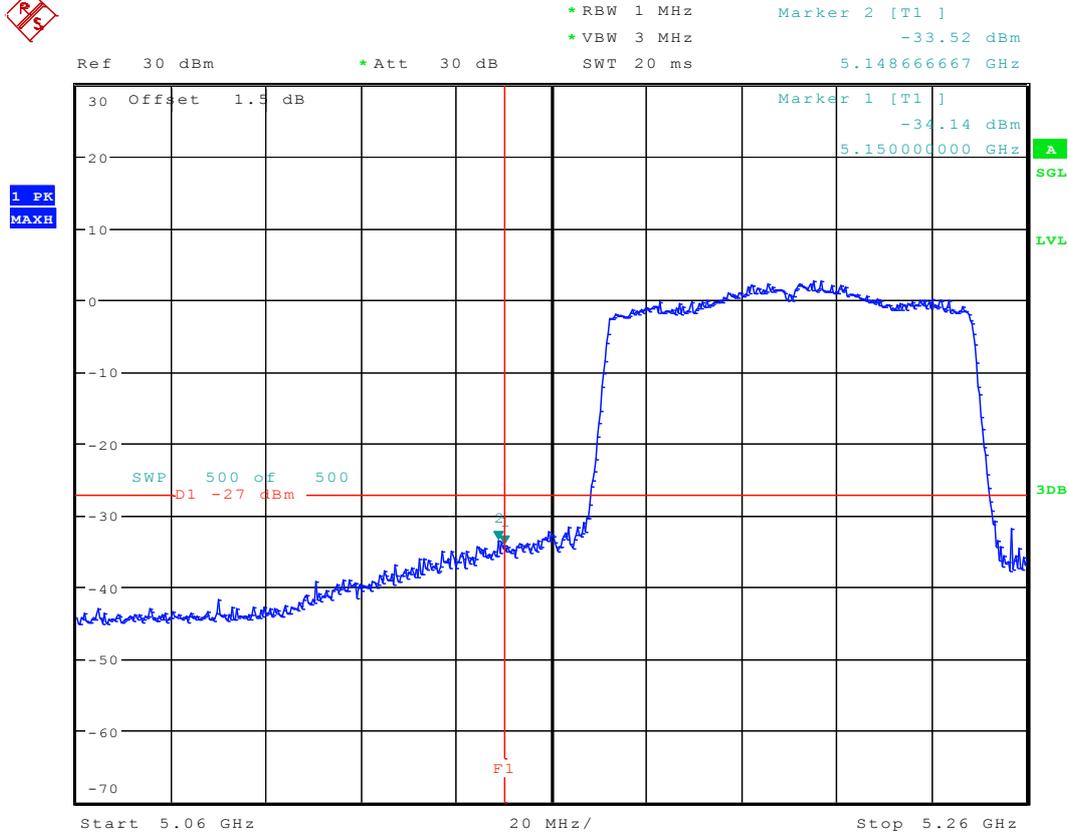
Date: 15.AUG.2016 13:16:14

### 12.40 11AC40\_159 Ant 1



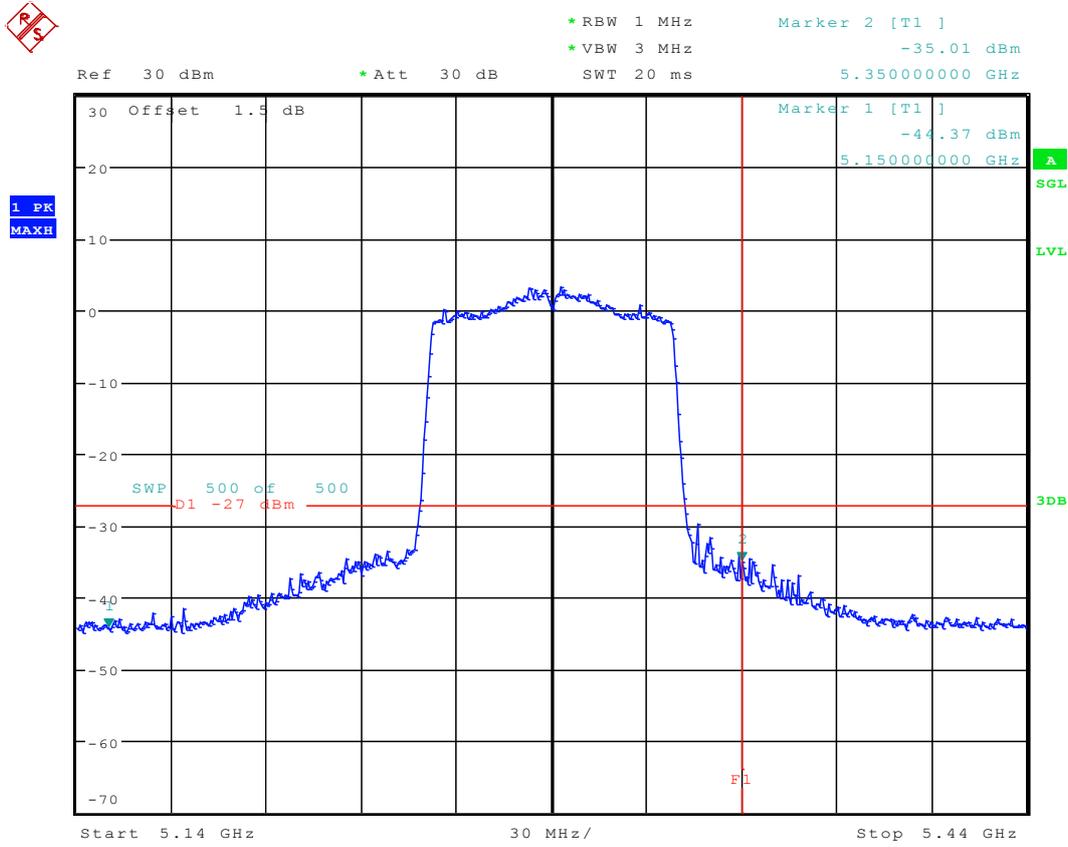
Date: 15.AUG.2016 13:19:30

### 12.41 11AC80\_42 Ant 1



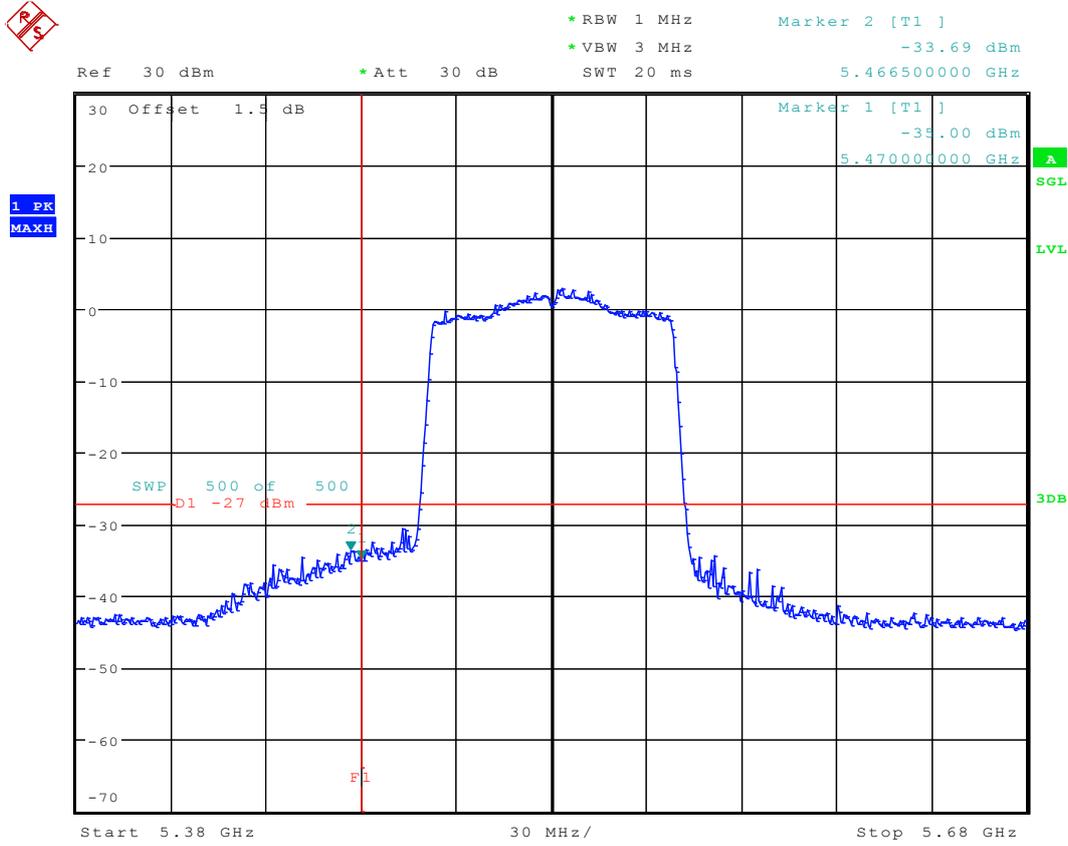
Date: 15.AUG.2016 13:46:11

### 12.42 11AC80\_58 Ant 1



Date: 15.AUG.2016 13:54:18

### 12.43 11AC80\_106 Ant 1



Date: 15.AUG.2016 13:58:19



## Appendix G: Frequencies Stability

Frequency Error vs. Voltage:

Test Conditions	Measured Fequency ( MHz )
	5180
V nom(V)	5180.0146
V max(V)	5180.0211
V min(V)	5180.0244
Max. Deviation Frequency	0.0244
Max. Frequency Error (ppm)	4.7

Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Fequency ( MHz )
	5180
-5	5180.0012
5	5180.0024
15	5180.0039
25	5180.0241
35	5180.0124
45	5180.0101
50	5180.0135
Max. Deviation Frequency	0.0241
Max. Frequency Error (ppm)	4.65



## Frequency Error vs. Voltage:

Test Conditions	Measured Frequency ( MHz )
	5825
V nom(V)	5825.0186
V max(V)	5825.0113
V min(V)	5825.0137
Max. Deviation Frequency	0.0186
Max. Frequency Error (ppm)	3.19

## Frequency Error vs. Temperature:

Test Conditions (°C)	Measured Frequency ( MHz )
	5825
-5	5825.0132
5	5825.0135
15	5825.0098
25	5825.0173
35	5825.0028
45	5825.0199
50	5825.0097
Max. Deviation Frequency	0.0198
Max. Frequency Error (ppm)	3.40

SEND