

# Appendix A U-NII: Emission Bandwidth

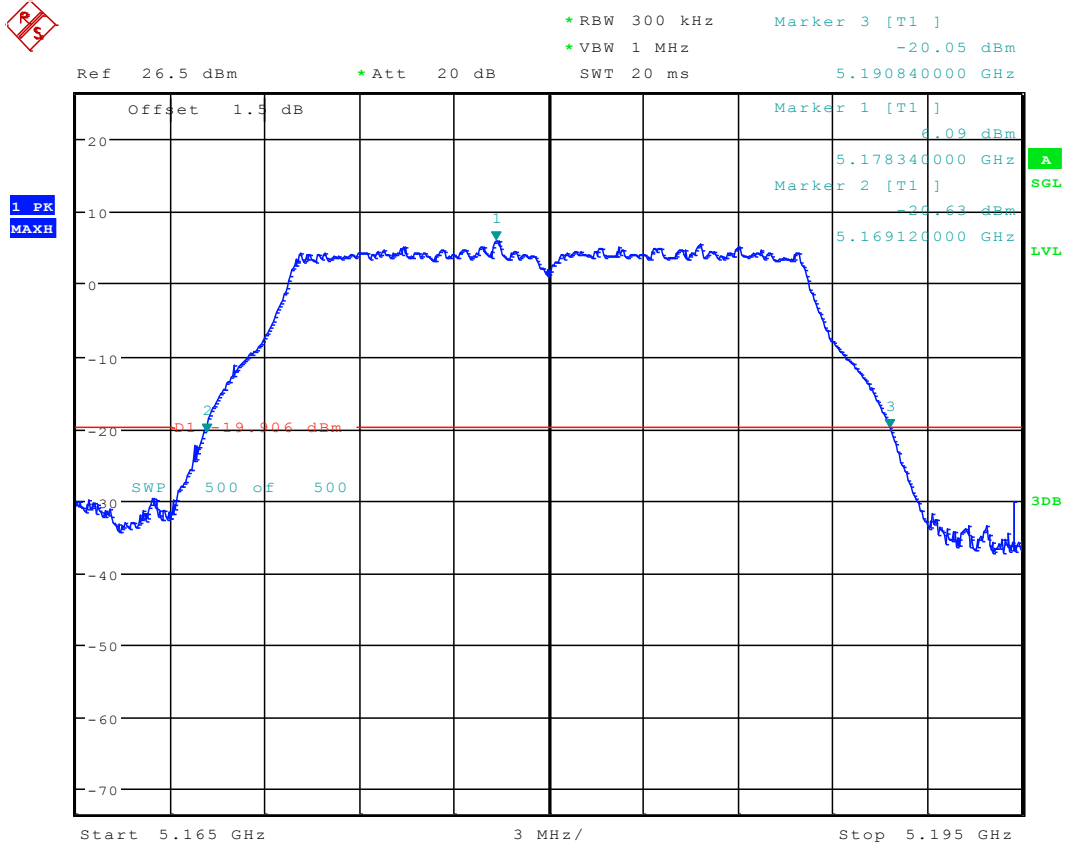
# 1 (EBW)Result Table

| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | 26dB Emission Bandwidth [MHz] | Verdict |
|-----------|--------------|-----------------|--------------|-------------------------------|---------|
| 11A       | 36           | 5180            | Ant 1        | 21.72                         | pass    |
|           | 48           | 5240            | Ant 1        | 21.72                         | pass    |
|           | 52           | 5260            | Ant 1        | 21.72                         | pass    |
|           | 64           | 5320            | Ant 1        | 22.02                         | pass    |
|           | 100          | 5500            | Ant 1        | 21.78                         | pass    |
|           | 140          | 5700            | Ant 1        | 21.76                         | pass    |
| 11N20     | 36           | 5180            | Ant 1        | 22.06                         | pass    |
|           | 48           | 5240            | Ant 1        | 21.98                         | pass    |
|           | 52           | 5260            | Ant 1        | 22.20                         | pass    |
|           | 64           | 5320            | Ant 1        | 22.24                         | pass    |
|           | 100          | 5500            | Ant 1        | 22.14                         | pass    |
|           | 140          | 5700            | Ant 1        | 22.14                         | pass    |
| 11N40     | 38           | 5190            | Ant 1        | 41.52                         | pass    |
|           | 46           | 5230            | Ant 1        | 41.70                         | pass    |
|           | 54           | 5270            | Ant 1        | 41.56                         | pass    |
|           | 62           | 5310            | Ant 1        | 41.60                         | pass    |
|           | 102          | 5510            | Ant 1        | 41.30                         | pass    |
|           | 134          | 5670            | Ant 1        | 41.64                         | pass    |
| 11AC20    | 36           | 5180            | Ant 1        | 22.00                         | pass    |
|           | 48           | 5240            | Ant 1        | 22.20                         | pass    |
|           | 52           | 5260            | Ant 1        | 22.14                         | pass    |
|           | 64           | 5320            | Ant 1        | 22.08                         | pass    |
|           | 100          | 5500            | Ant 1        | 22.12                         | pass    |
|           | 140          | 5700            | Ant 1        | 22.24                         | pass    |
| 11AC40    | 38           | 5190            | Ant 1        | 41.32                         | pass    |
|           | 46           | 5230            | Ant 1        | 41.32                         | pass    |
|           | 54           | 5270            | Ant 1        | 41.50                         | pass    |
|           | 62           | 5310            | Ant 1        | 41.78                         | pass    |
|           | 102          | 5510            | Ant 1        | 41.28                         | pass    |
|           | 134          | 5670            | Ant 1        | 41.38                         | pass    |
| 11AC80    | 42           | 5210            | Ant 1        | 82.72                         | pass    |
|           | 58           | 5290            | Ant 1        | 82.93                         | pass    |
|           | 106          | 5530            | Ant 1        | 83.09                         | pass    |

| Test Mode | Test Channel | Frequency<br>[MHz] | Ant   | 6dB<br>Emission<br>Bandwidth<br>[MHz] | Verdict |
|-----------|--------------|--------------------|-------|---------------------------------------|---------|
| 11A       | 149          | 5745               | Ant 1 | 16.38                                 | pass    |
|           | 165          | 5825               | Ant 1 | 16.38                                 | pass    |
| 11N20     | 149          | 5745               | Ant 1 | 17.64                                 | pass    |
|           | 165          | 5825               | Ant 1 | 17.64                                 | pass    |
| 11N40     | 151          | 5755               | Ant 1 | 36.38                                 | pass    |
|           | 159          | 5795               | Ant 1 | 36.38                                 | pass    |
| 11AC20    | 149          | 5745               | Ant 1 | 17.64                                 | pass    |
|           | 165          | 5825               | Ant 1 | 17.64                                 | pass    |
| 11AC40    | 151          | 5755               | Ant 1 | 36.38                                 | pass    |
|           | 159          | 5795               | Ant 1 | 36.38                                 | pass    |
| 11AC80    | 155          | 5775               | Ant 1 | 76.43                                 | pass    |

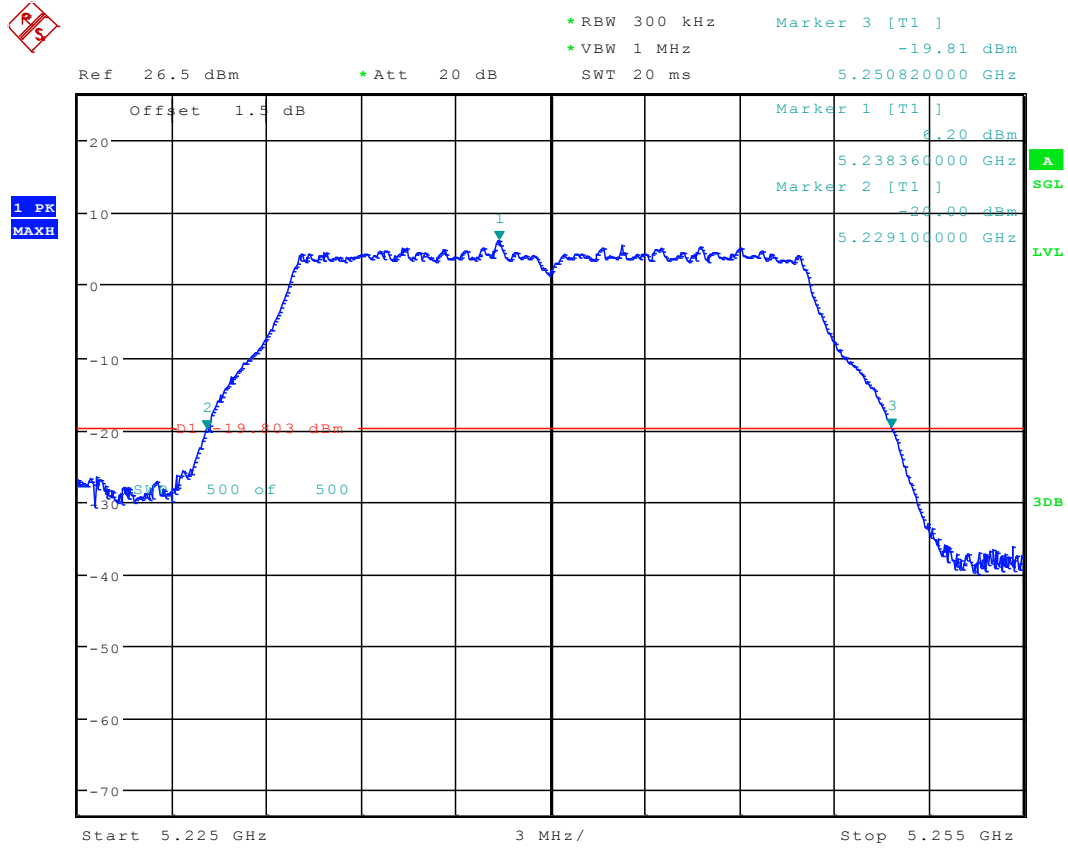
## 2 Test Plot for 26dBEmission Bandwidth

### 2.1 11A\_36 Ant 1



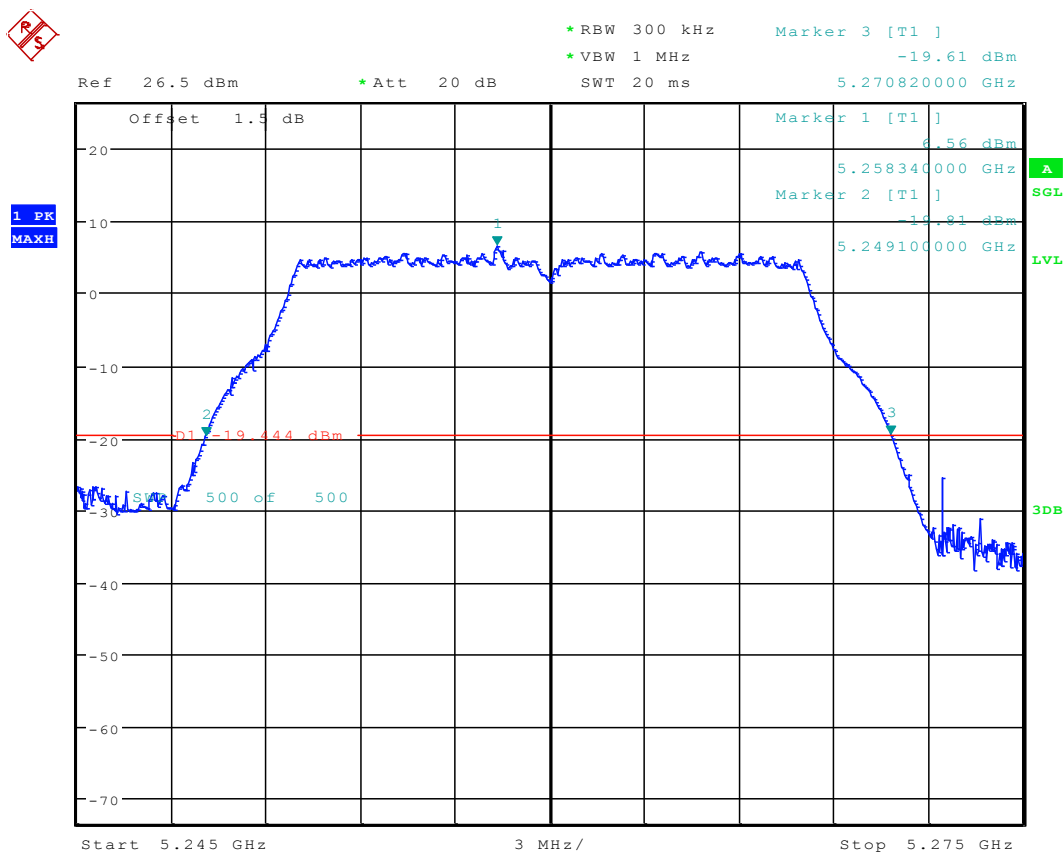
Date: 5.DEC.2016 11:28:53

## 2.2 11A\_48 Ant 1



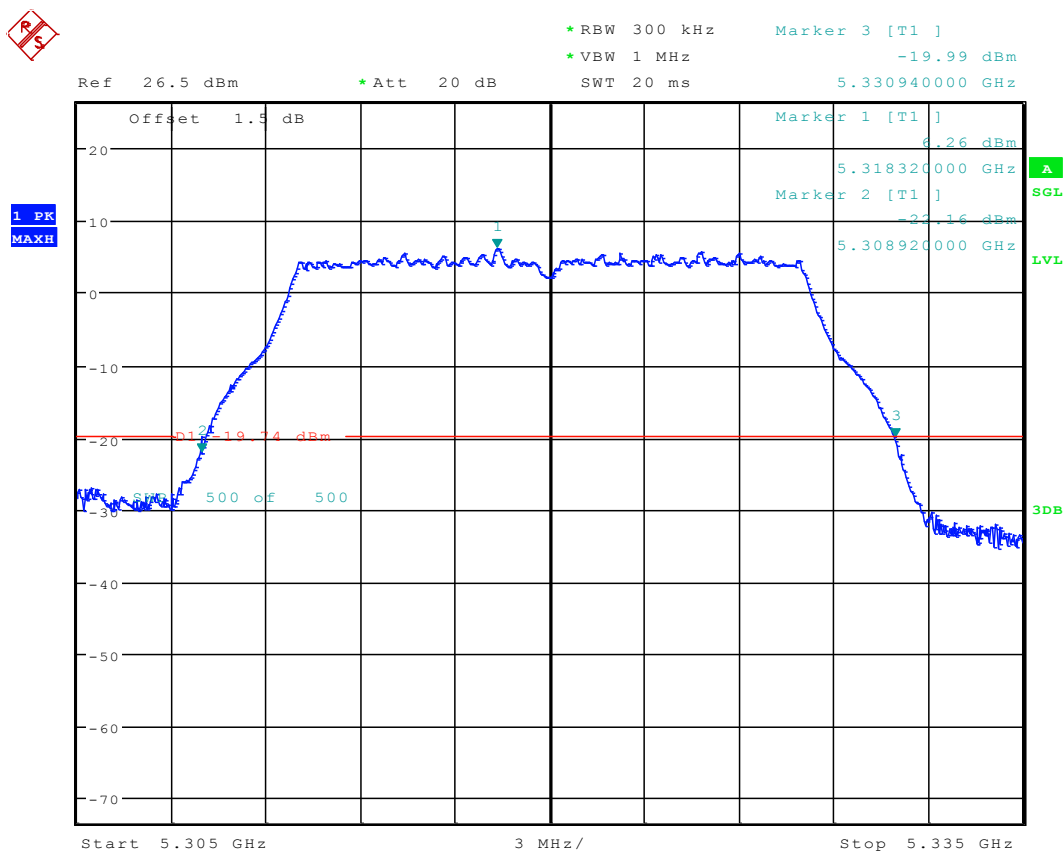
Date: 5.DEC.2016 11:34:22

## 2.3 11A\_52 Ant 1



Date: 5.DEC.2016 11:42:59

## 2.4 11A\_64 Ant 1

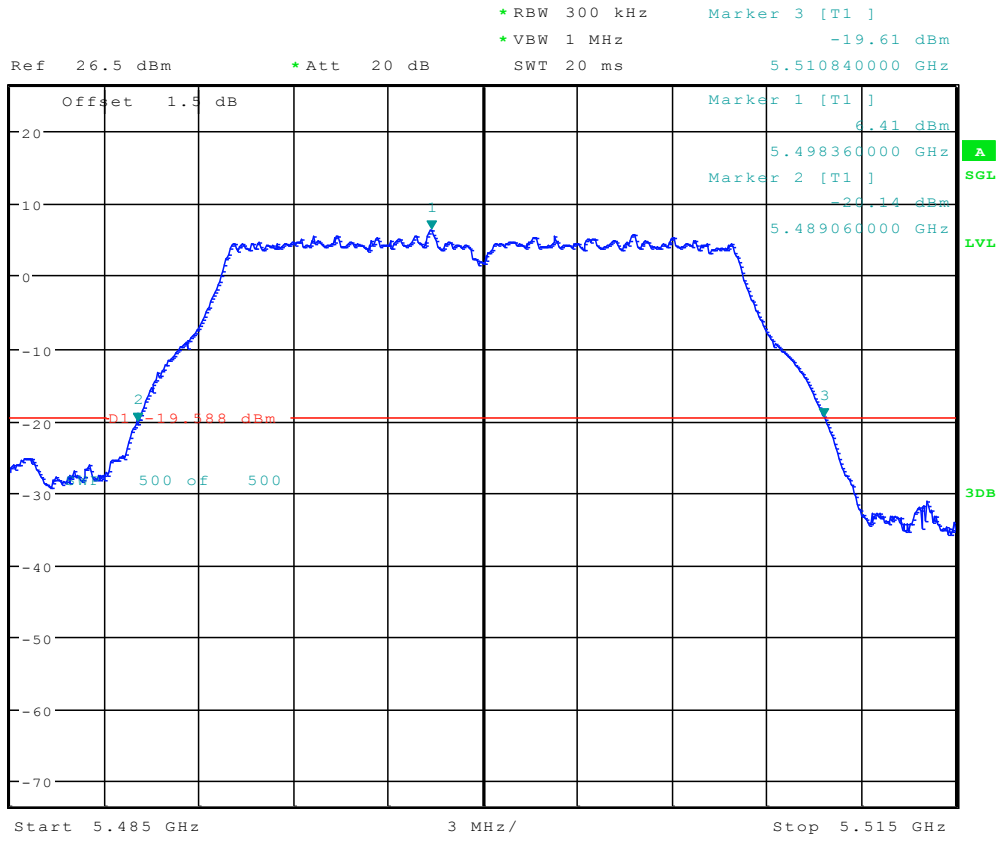


Date: 5.DEC.2016 11:48:17

## 2.5 11A\_100 Ant 1

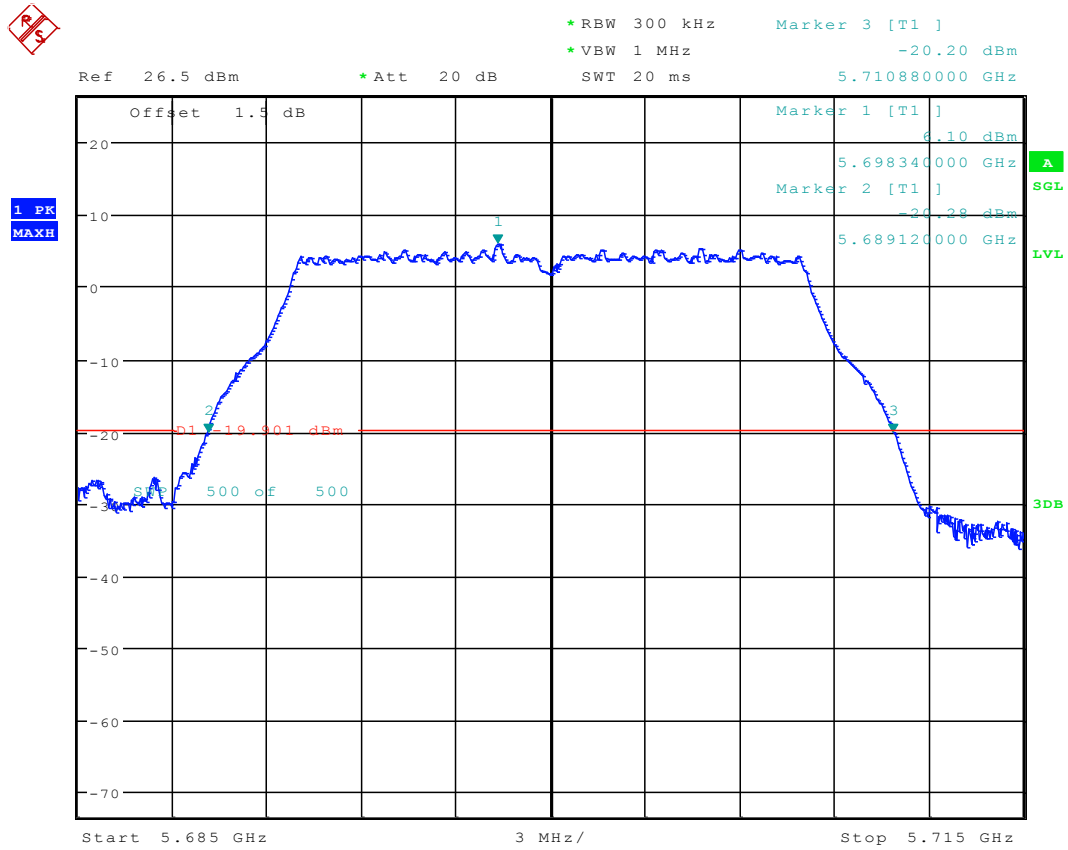


1 PK  
MAXH



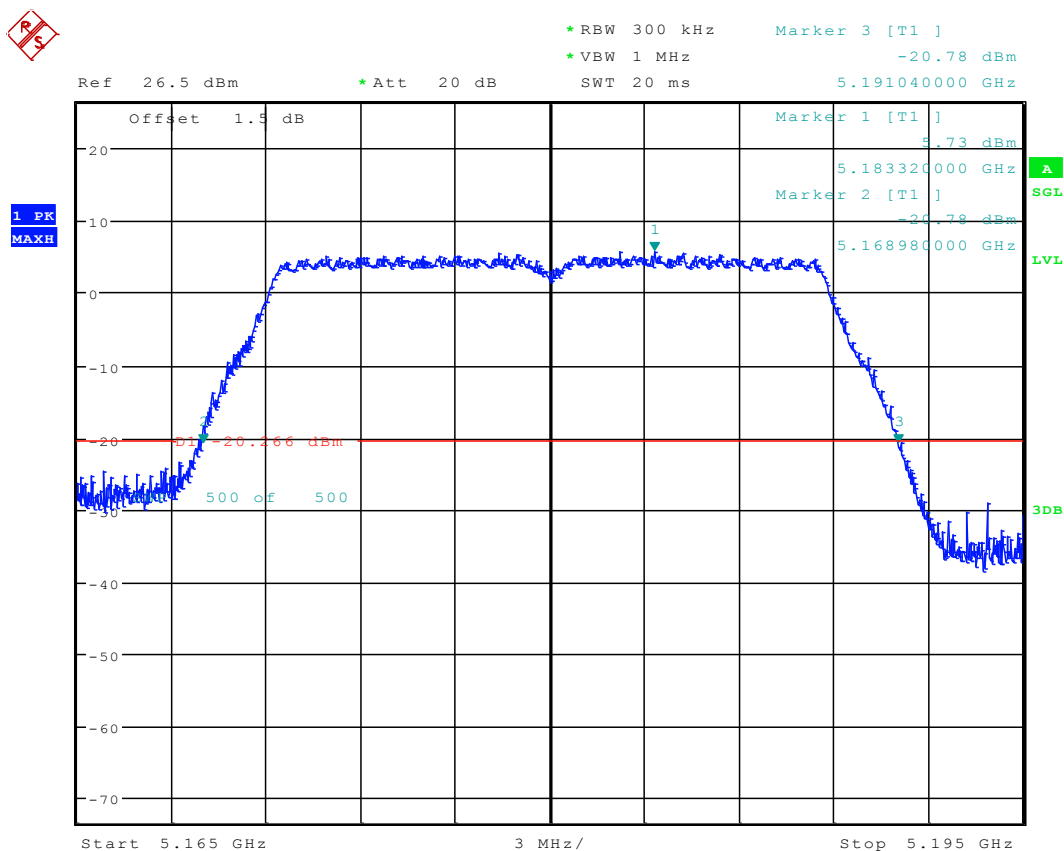
Date: 5.DEC.2016 11:54:28

## 2.6 11A\_140 Ant 1



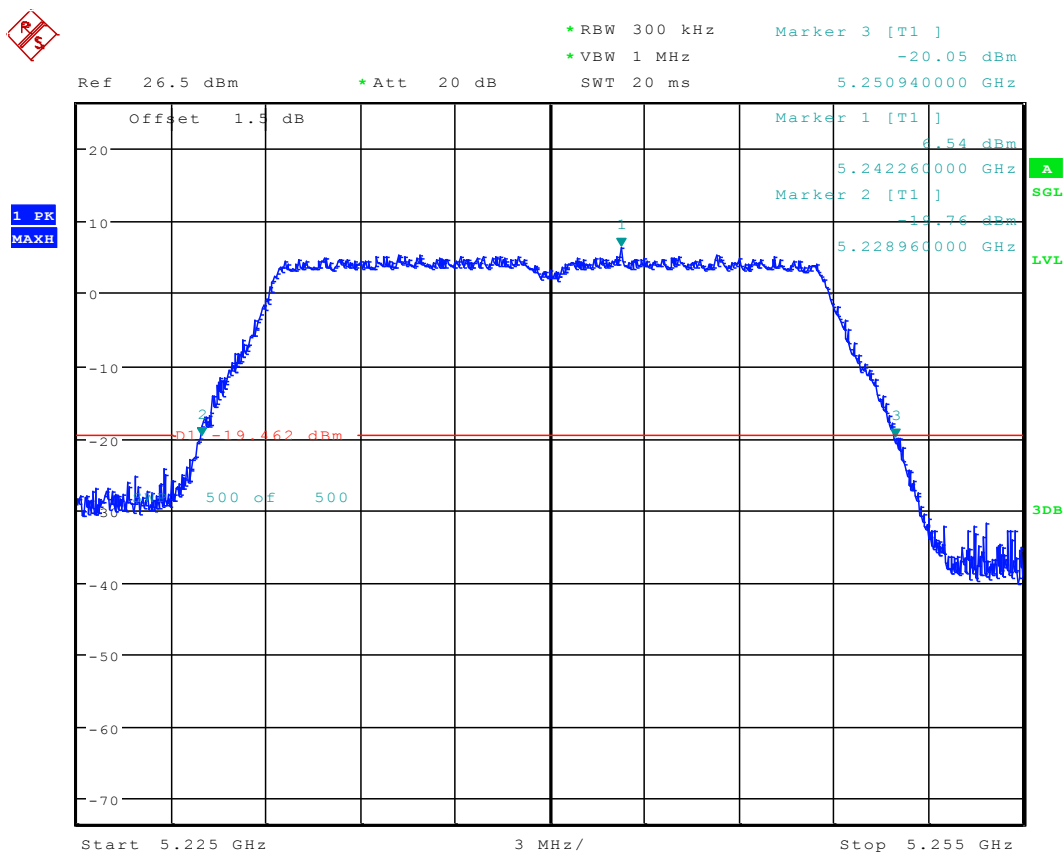
Date: 5.DEC.2016 11:59:45

## 2.7 1N20\_36 Ant 1



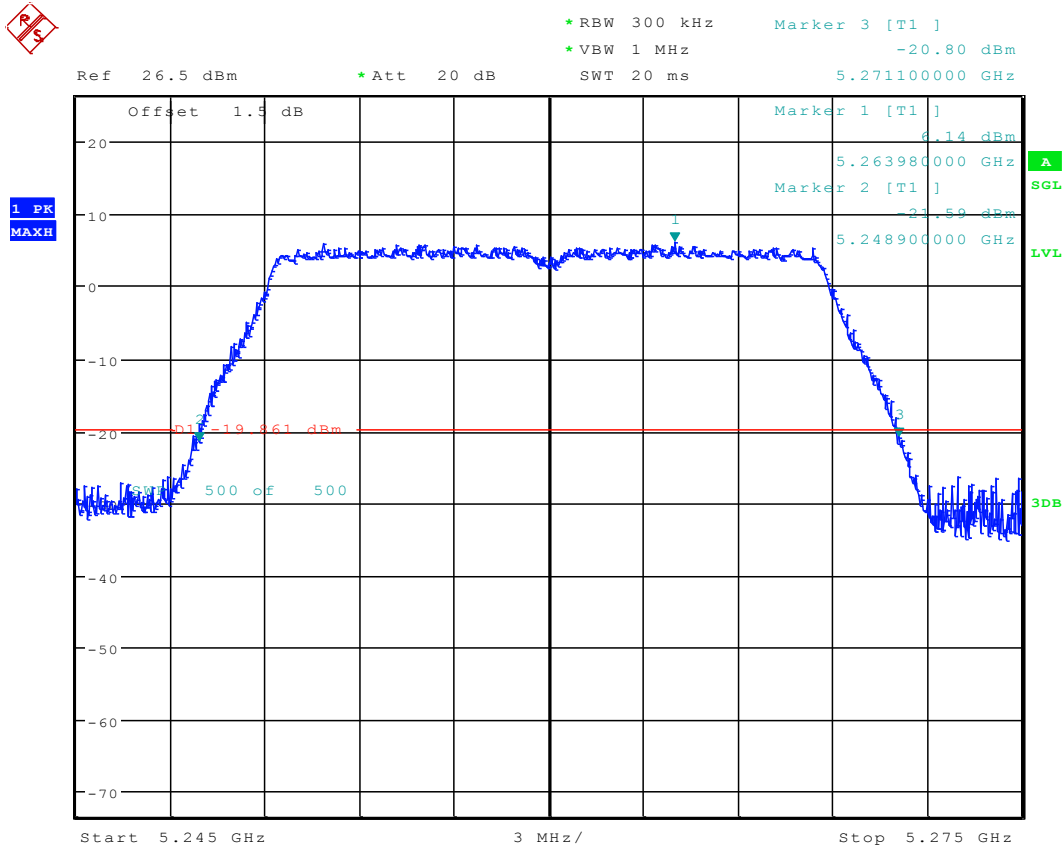
Date: 5.DEC.2016 12:21:59

## 2.8 11N20\_48 Ant 1



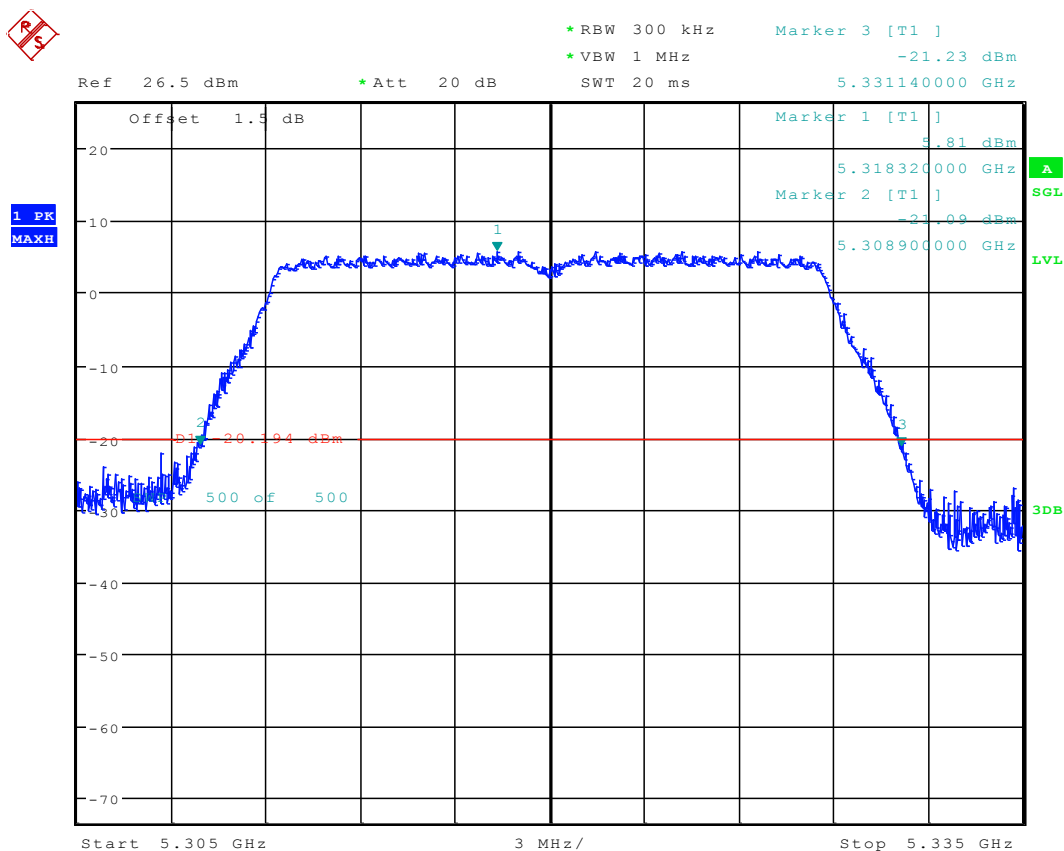
Date: 5.DEC.2016 12:28:47

## 2.9 11N20\_52 Ant 1



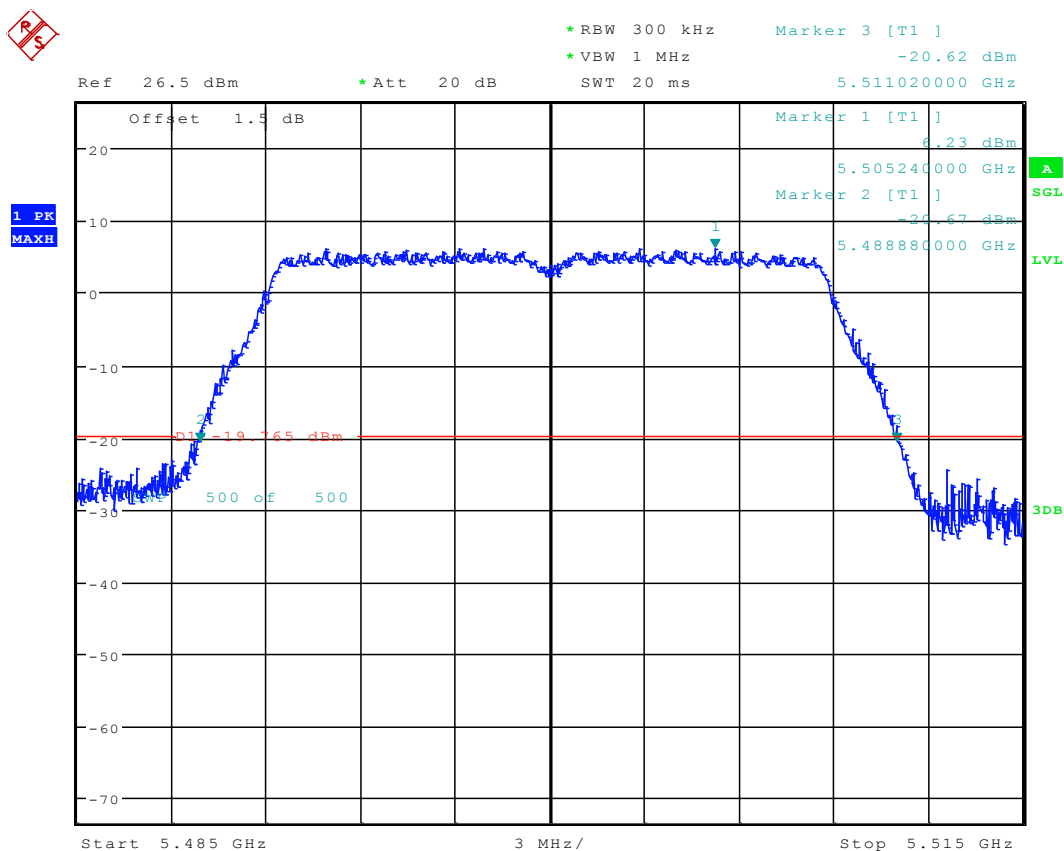
Date: 5.DEC.2016 12:34:12

## 2.10 11N20\_64 Ant 1



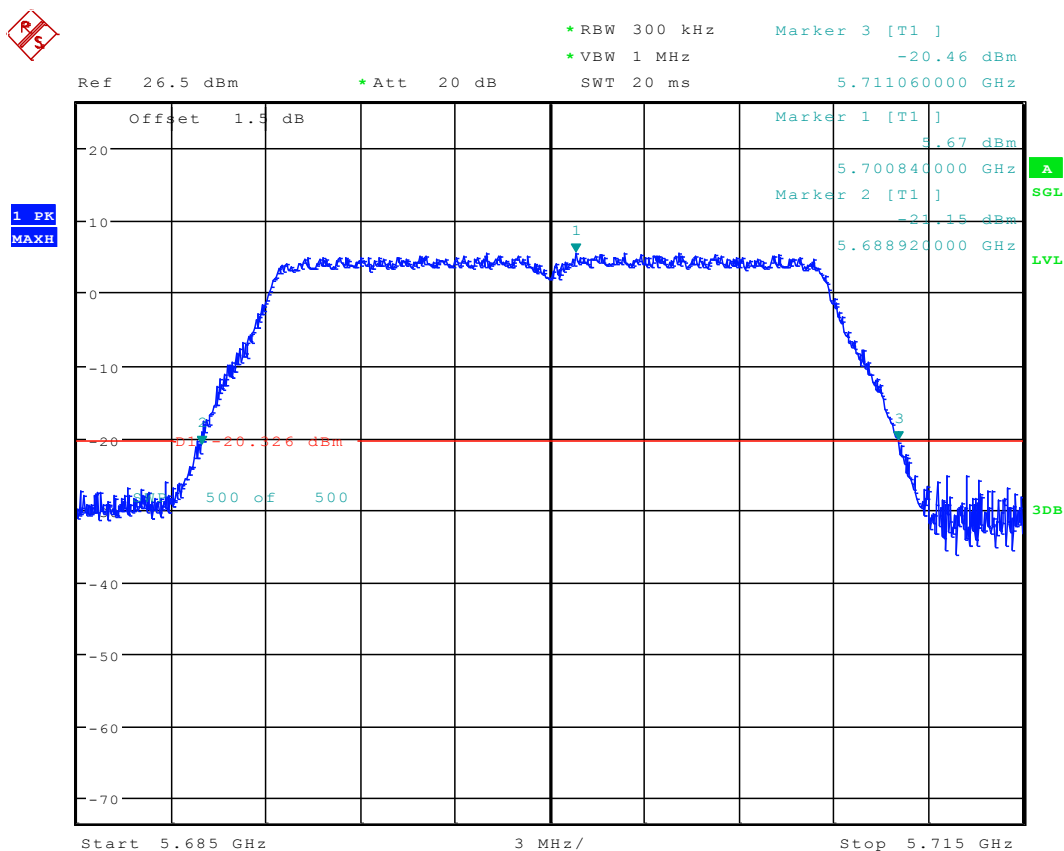
Date: 5.DEC.2016 12:39:42

## 2.11 11N20\_100 Ant 1



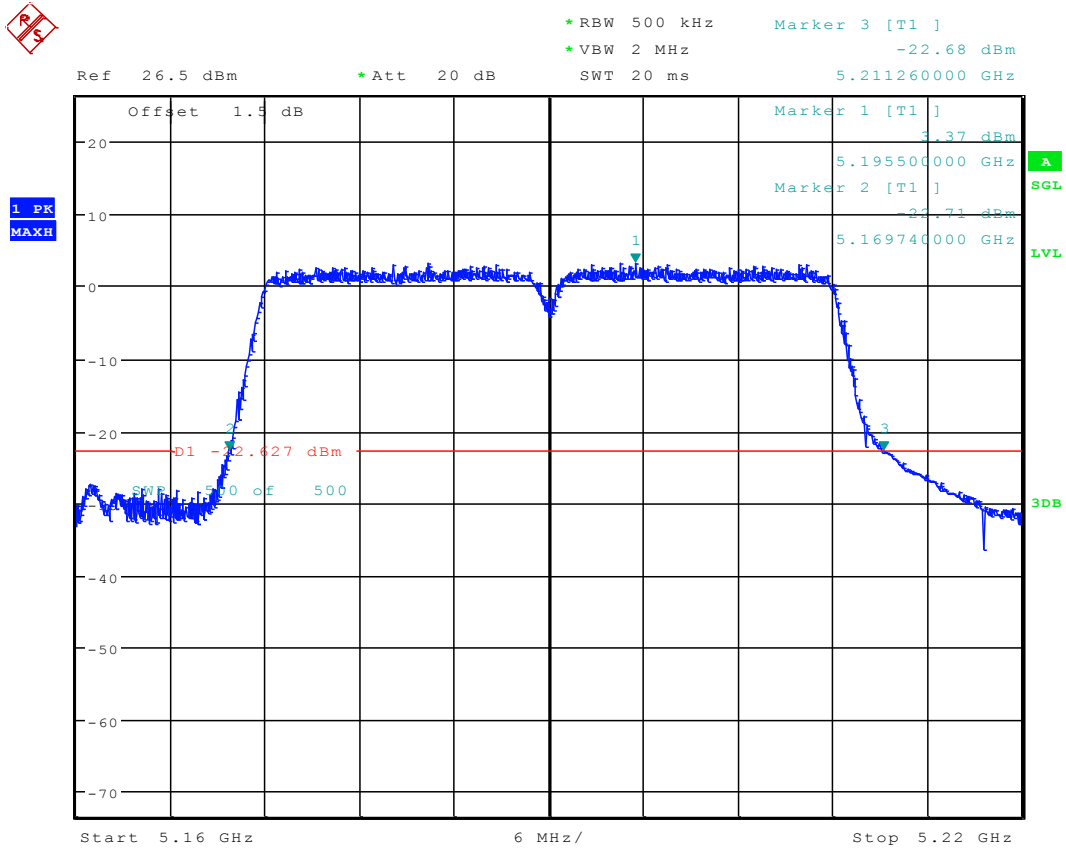
Date: 5.DEC.2016 12:48:15

## 2.12 11N20\_140 Ant 1



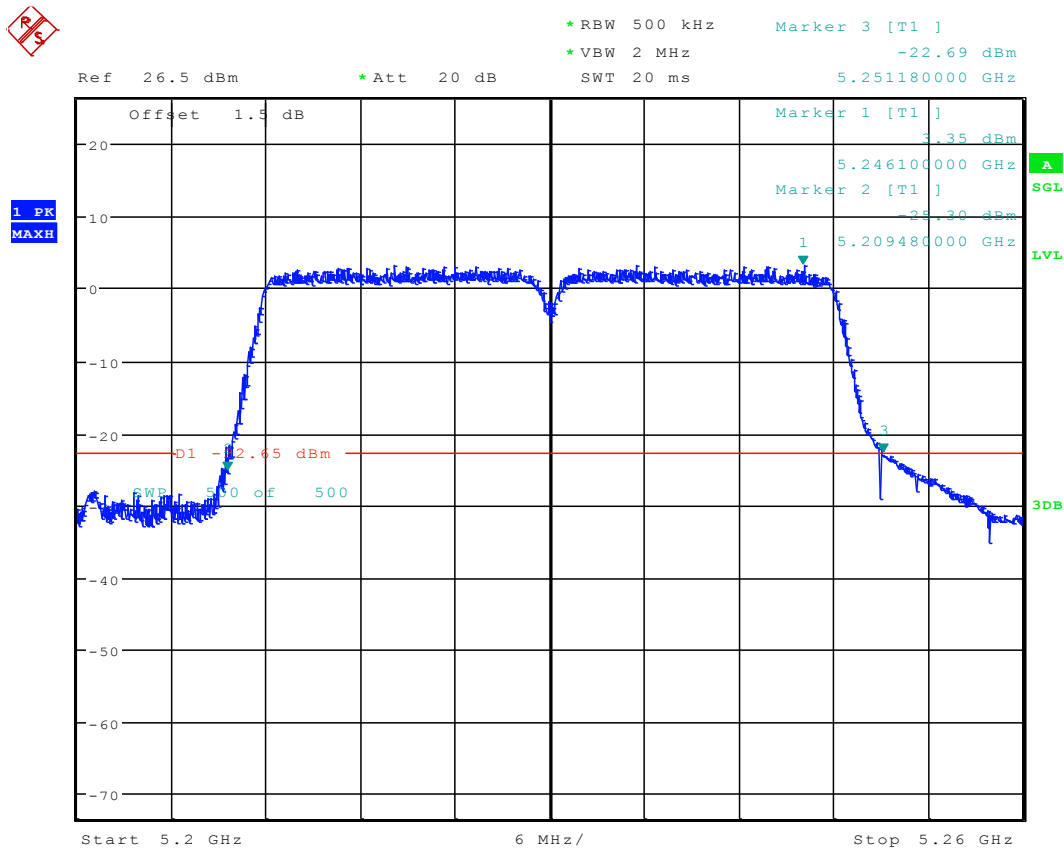
Date: 5.DEC.2016 14:40:12

## 2.13 11N40\_38 Ant 1



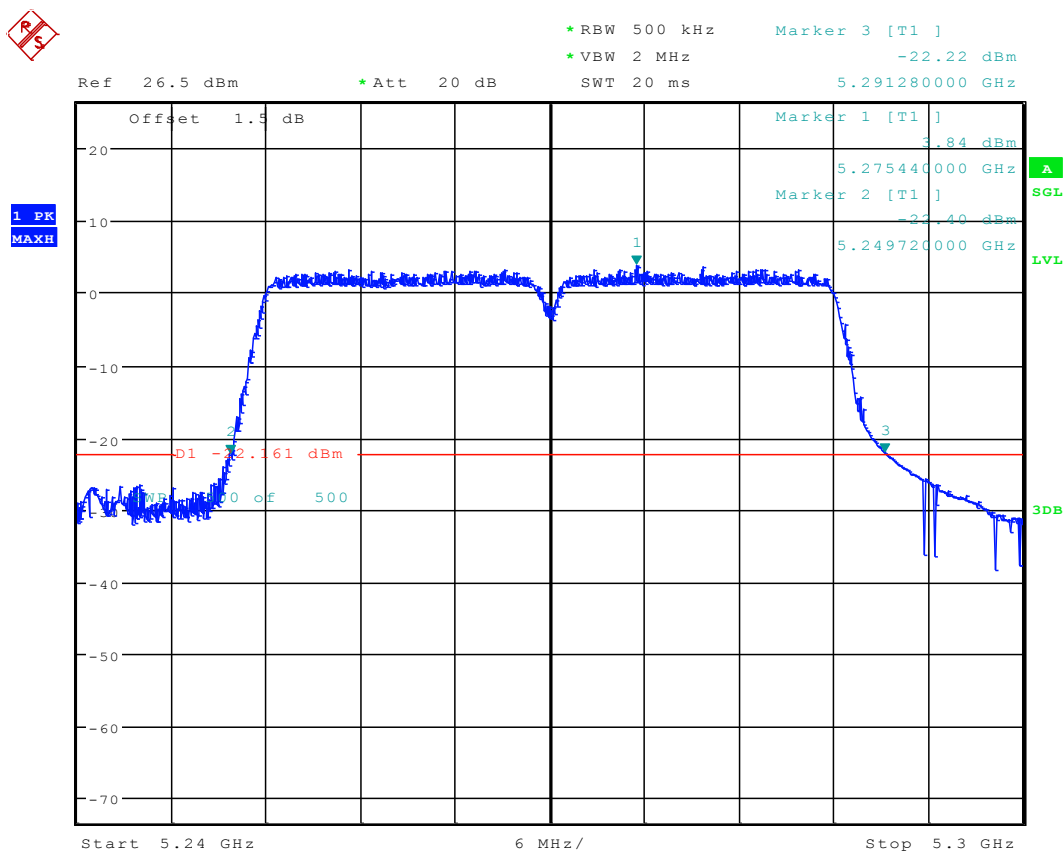
Date: 5.DEC.2016 14:49:08

## 2.14 11N40\_46 Ant 1



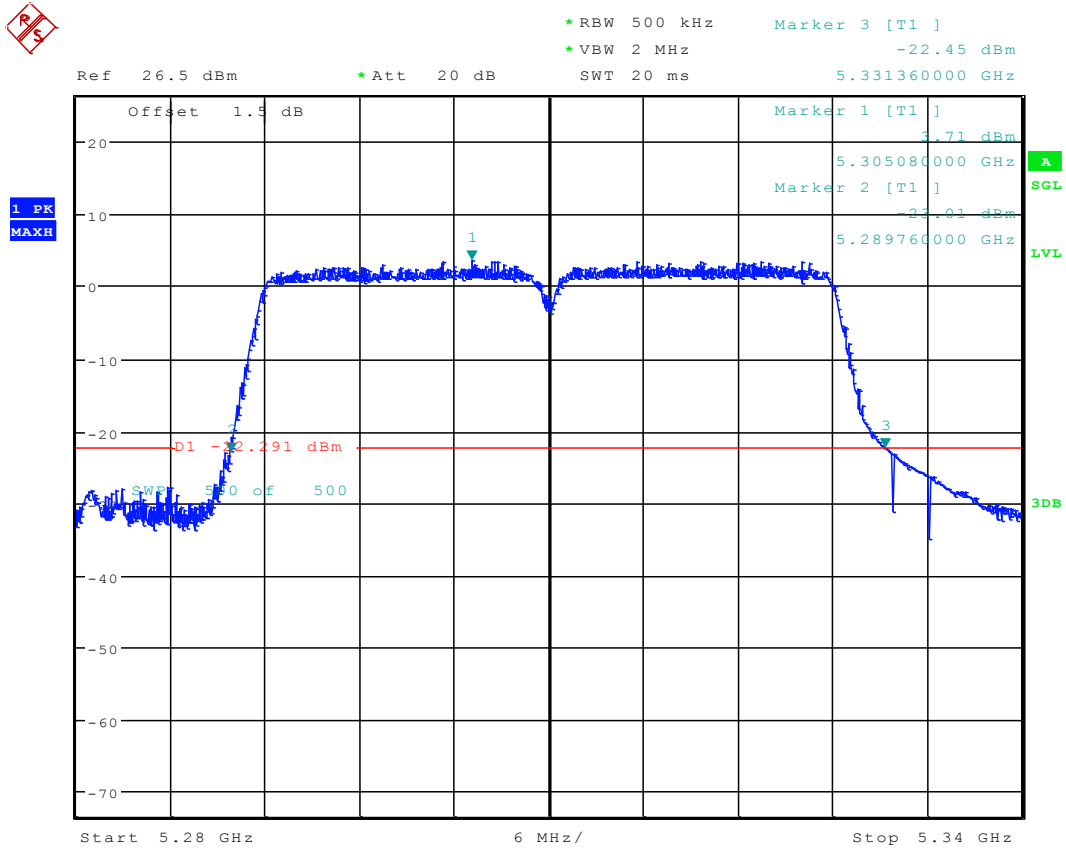
Date: 5.DEC.2016 14:54:30

## 2.15 11N40\_54 Ant 1



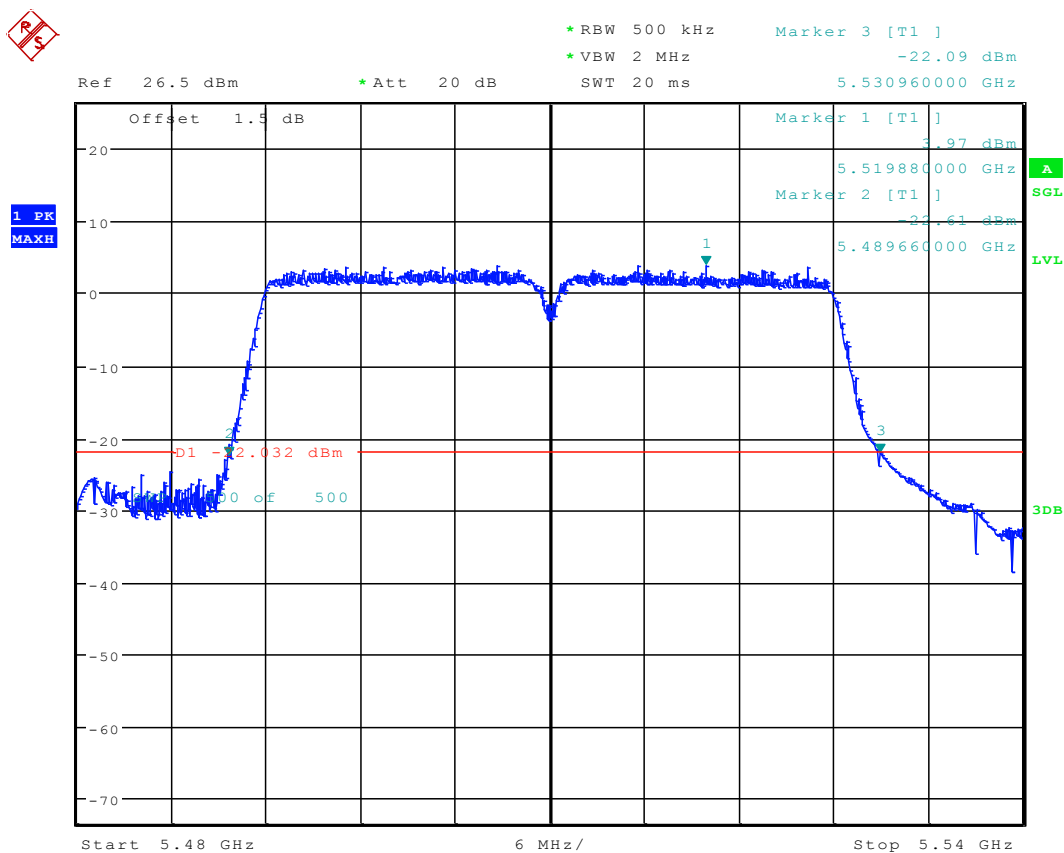
Date: 5.DEC.2016 14:59:38

## 2.16 11N40\_62 Ant 1



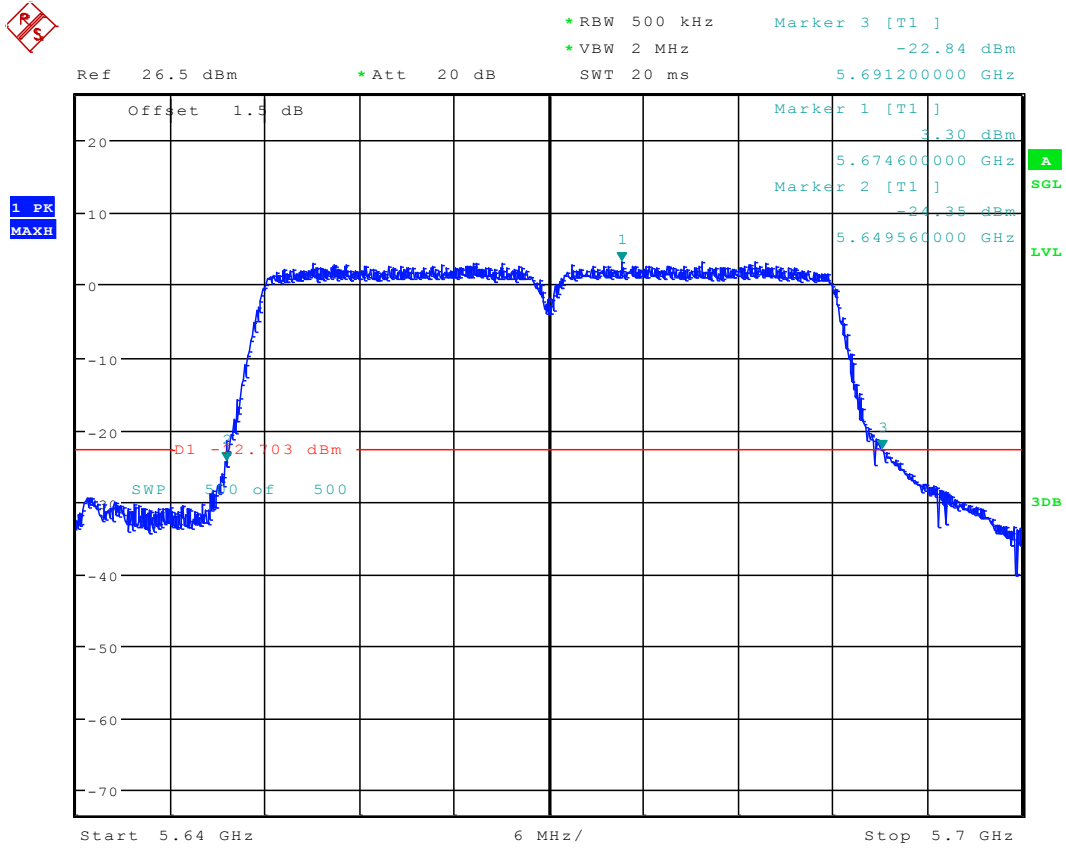
Date: 5.DEC.2016 15:04:22

## 2.17 11N40\_102 Ant 1



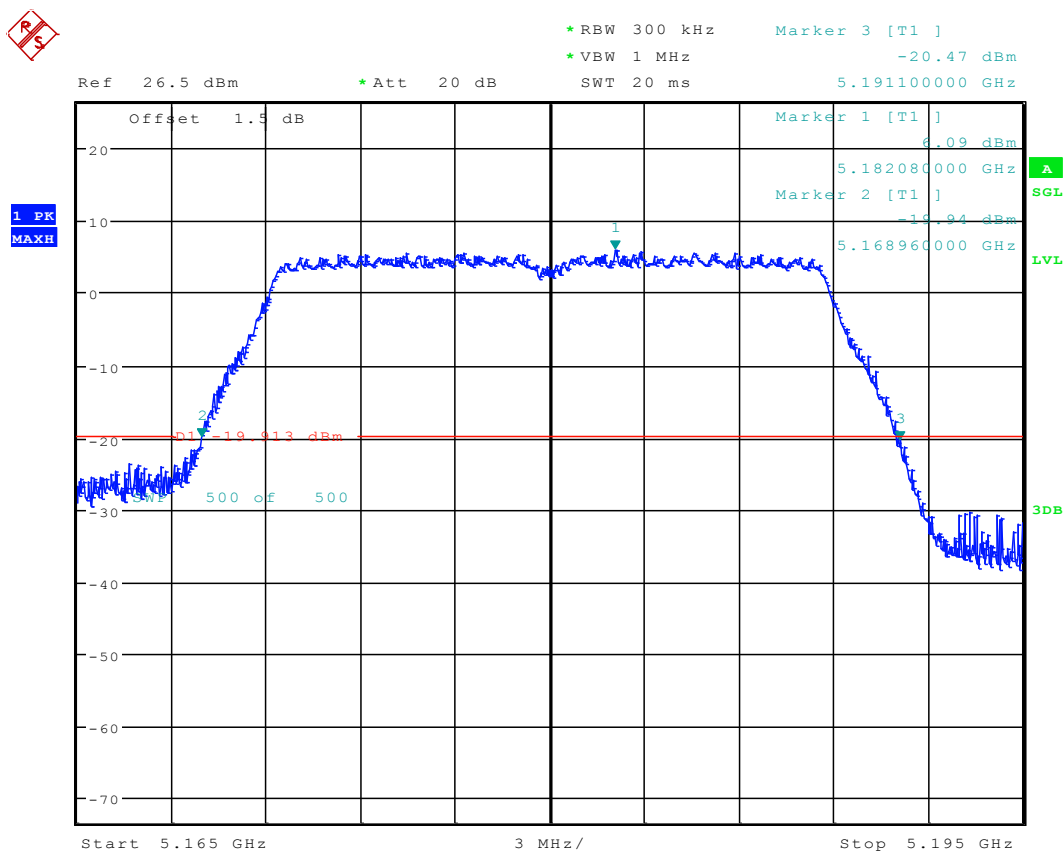
Date: 5.DEC.2016 15:09:31

## 2.18 11N40\_134 Ant 1



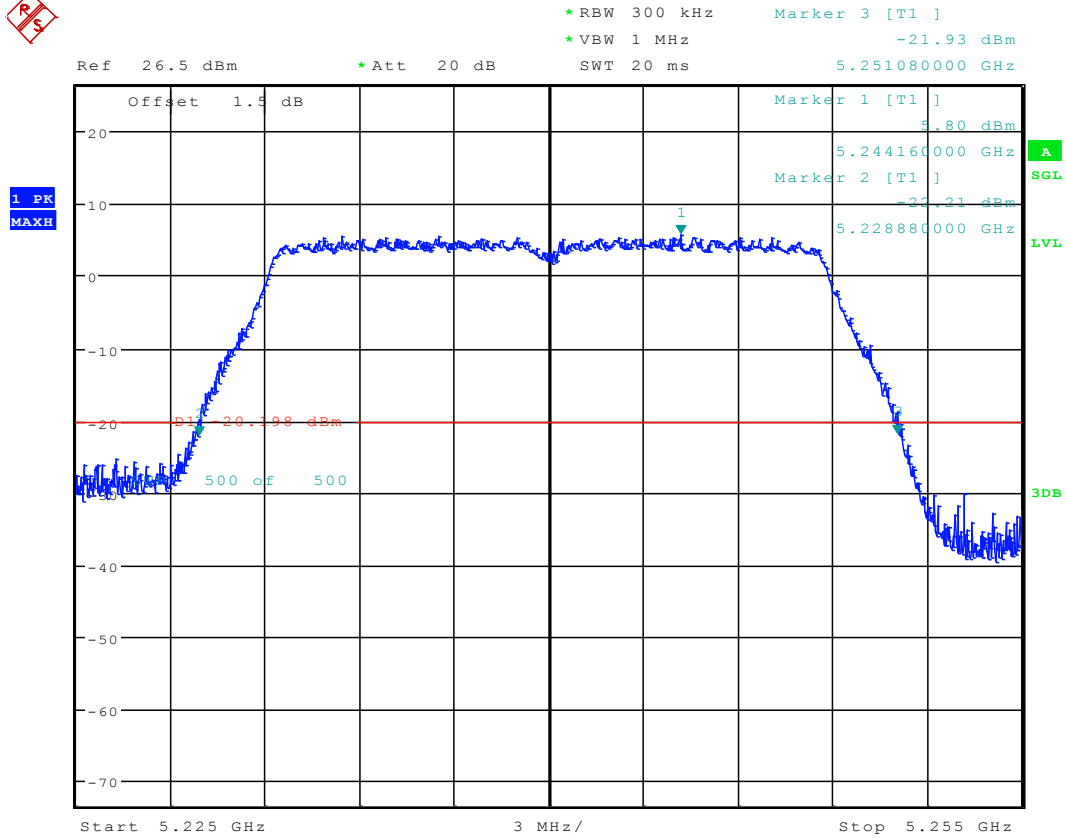
Date: 5.DEC.2016 15:12:45

## 2.19 11AC20\_36 Ant 1



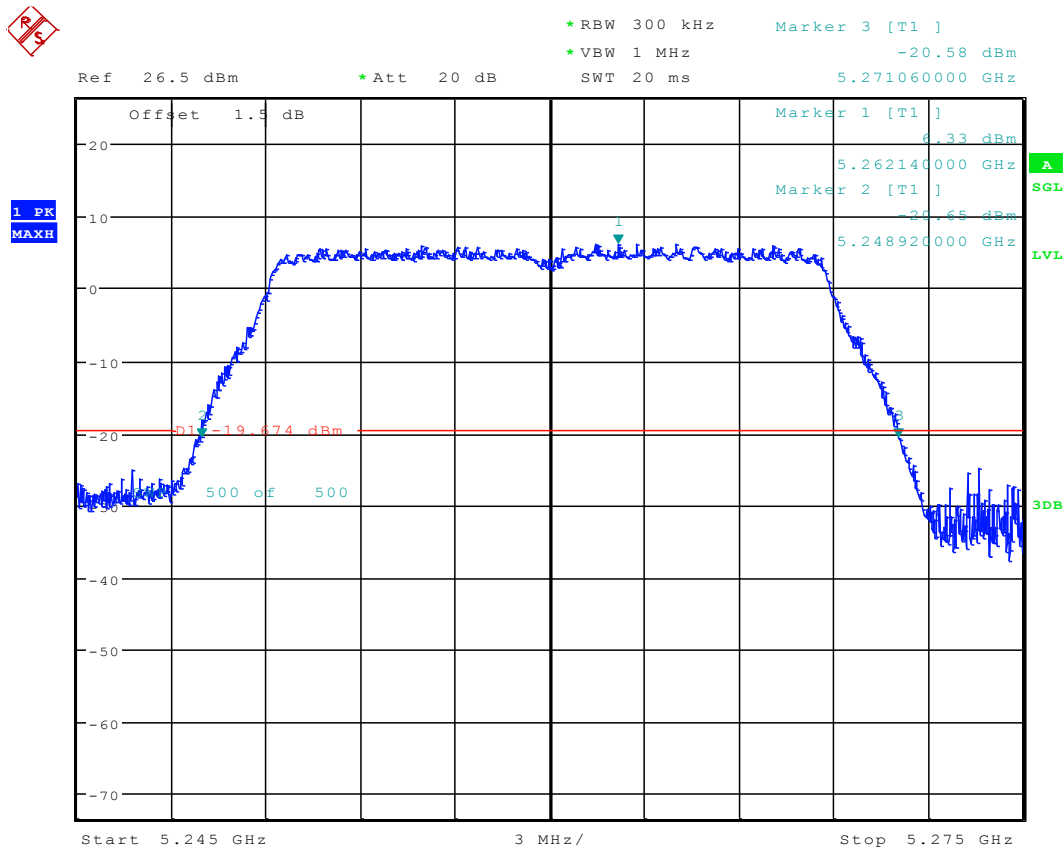
Date: 5.DEC.2016 15:33:10

## 2.20 11AC20\_48 Ant 1



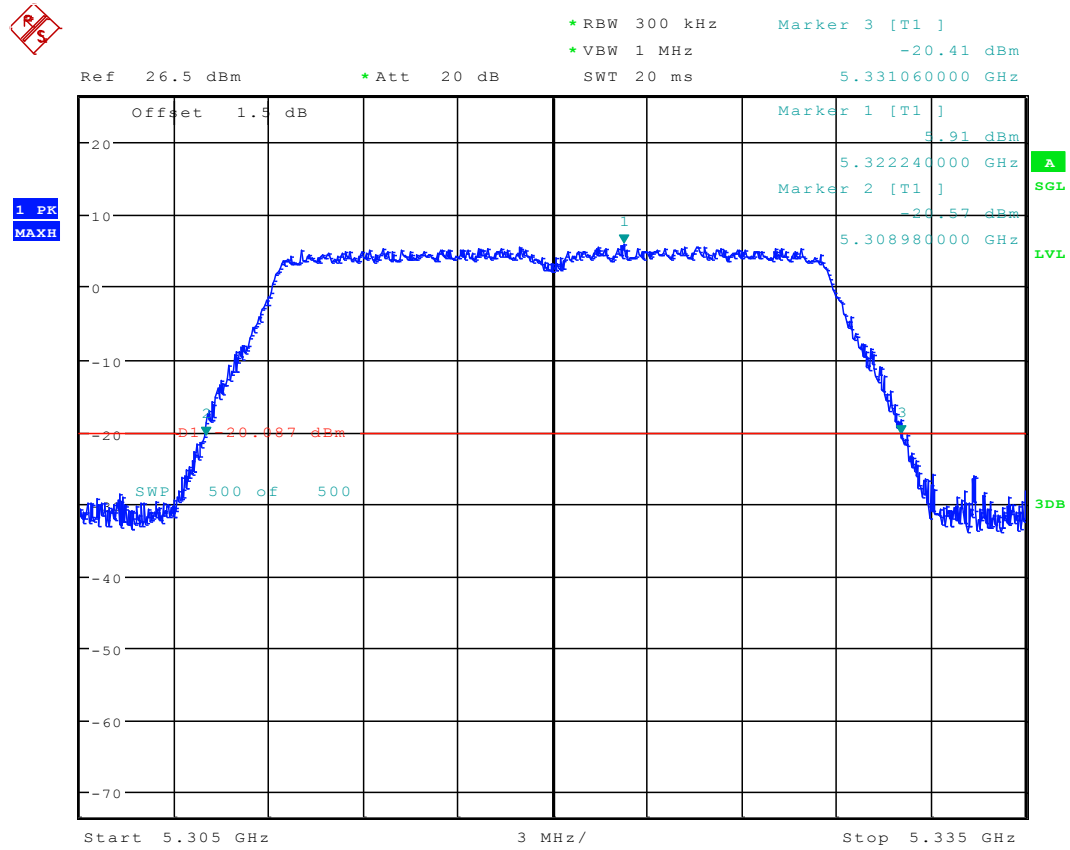
Date: 5.DEC.2016 15:48:09

## 2.21 11AC20\_52 Ant 1



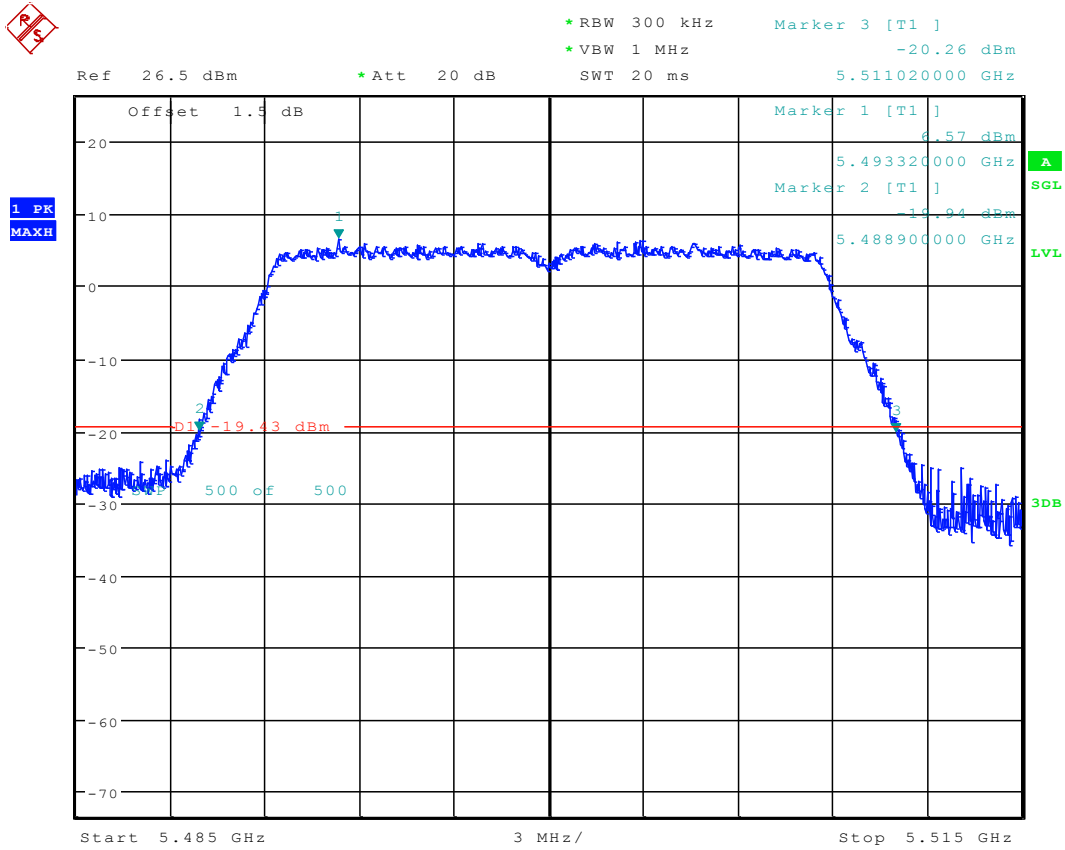
Date: 5.DEC.2016 15:53:19

## 2.22 11AC20\_64 Ant 1



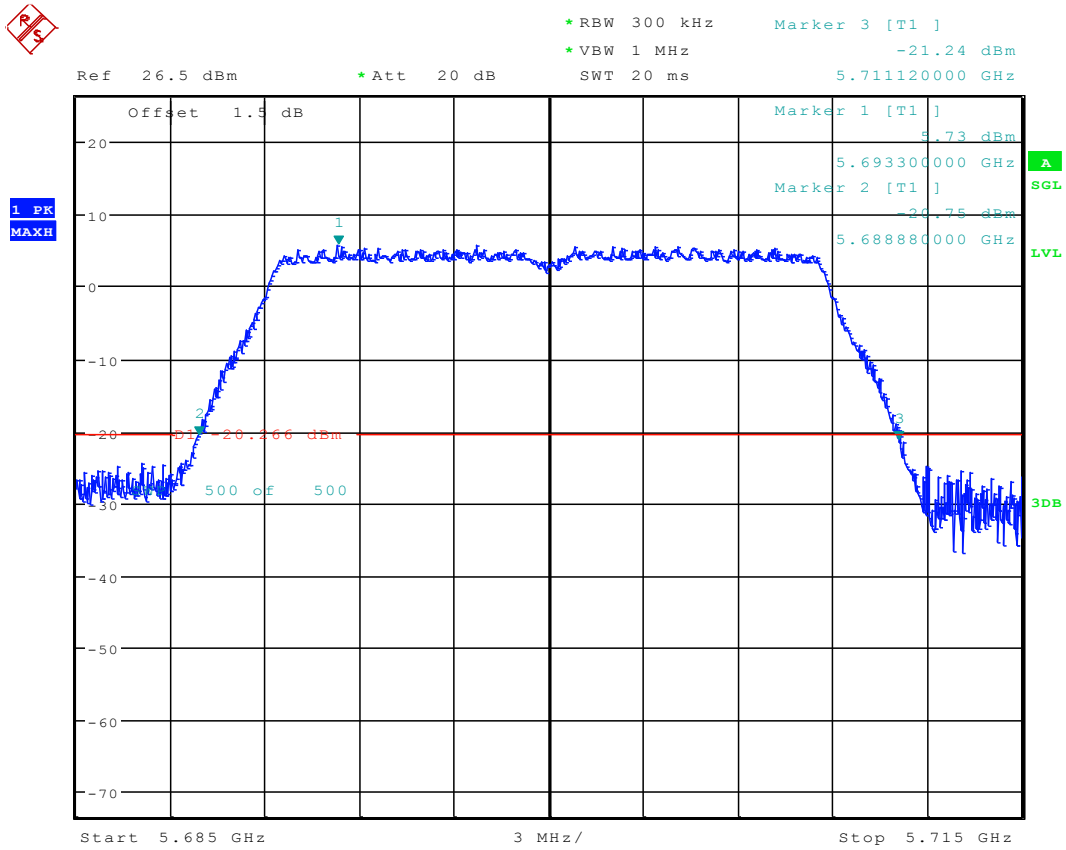
Date: 5.DEC.2016 15:58:55

## 2.23 11AC20\_100 Ant 1



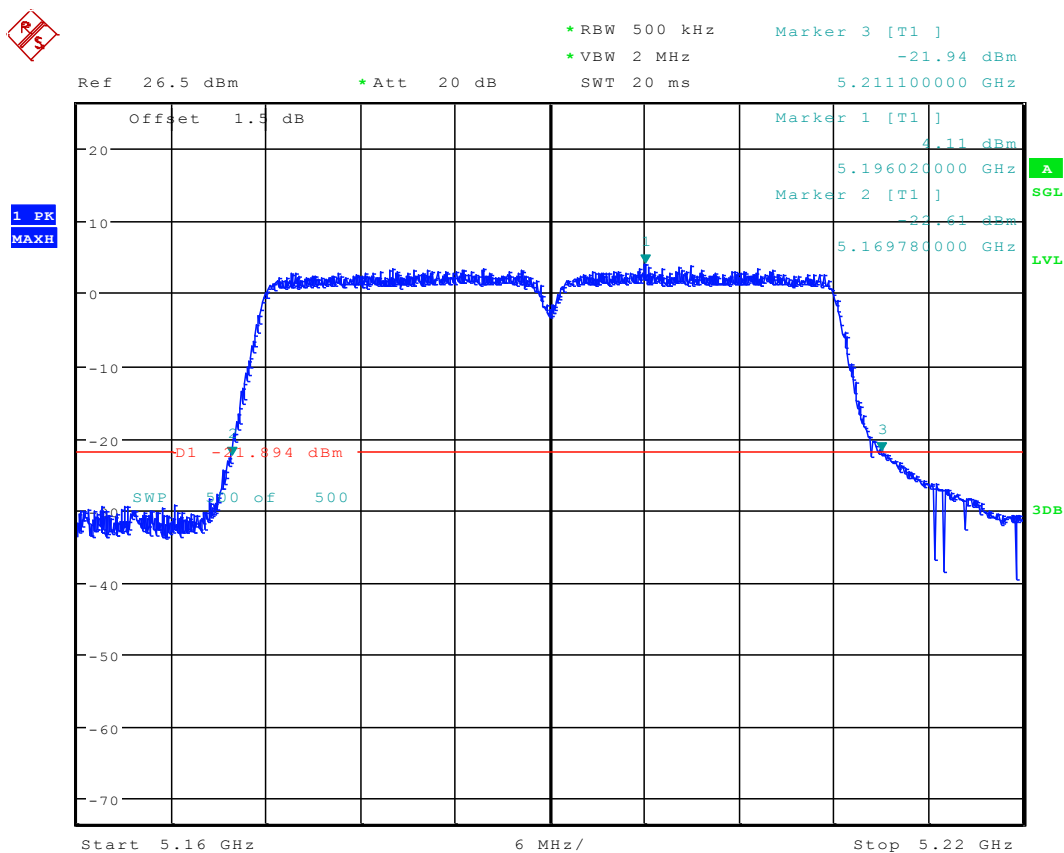
Date: 5.DEC.2016 16:04:58

## 2.24 11AC20\_140 Ant 1



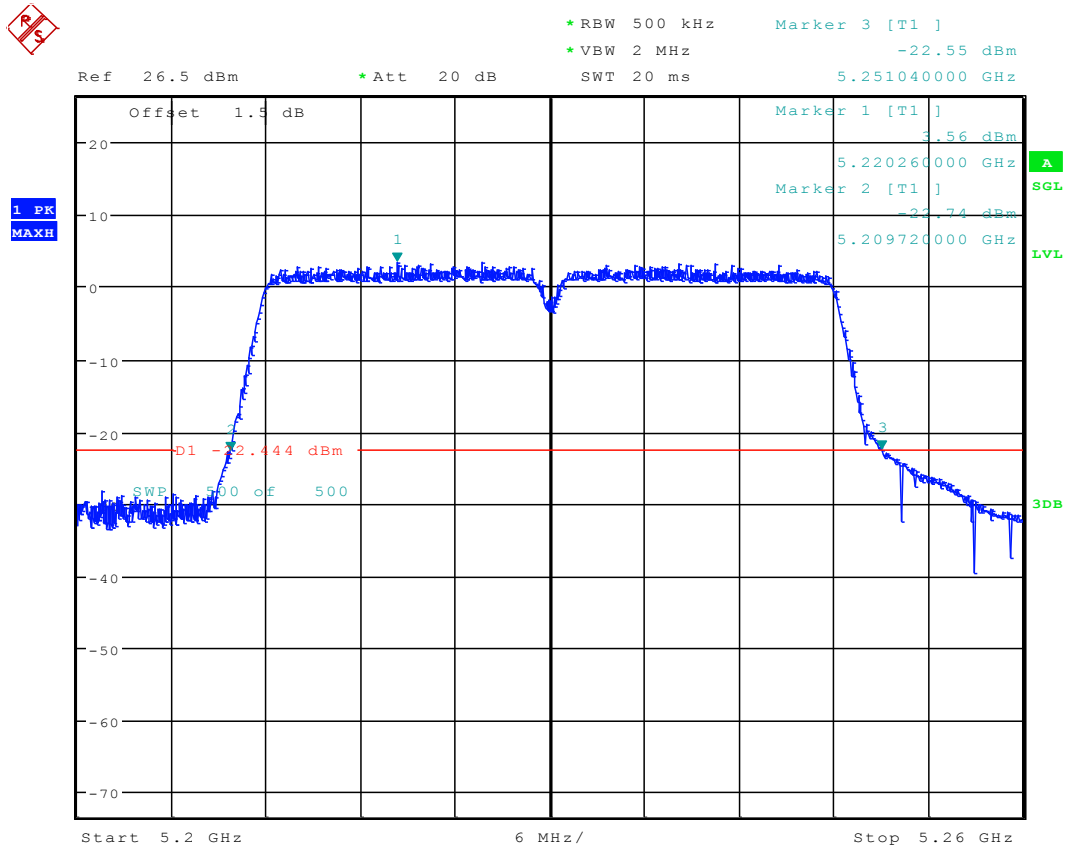
Date: 5.DEC.2016 16:11:56

## 2.25 11AC40\_38 Ant 1



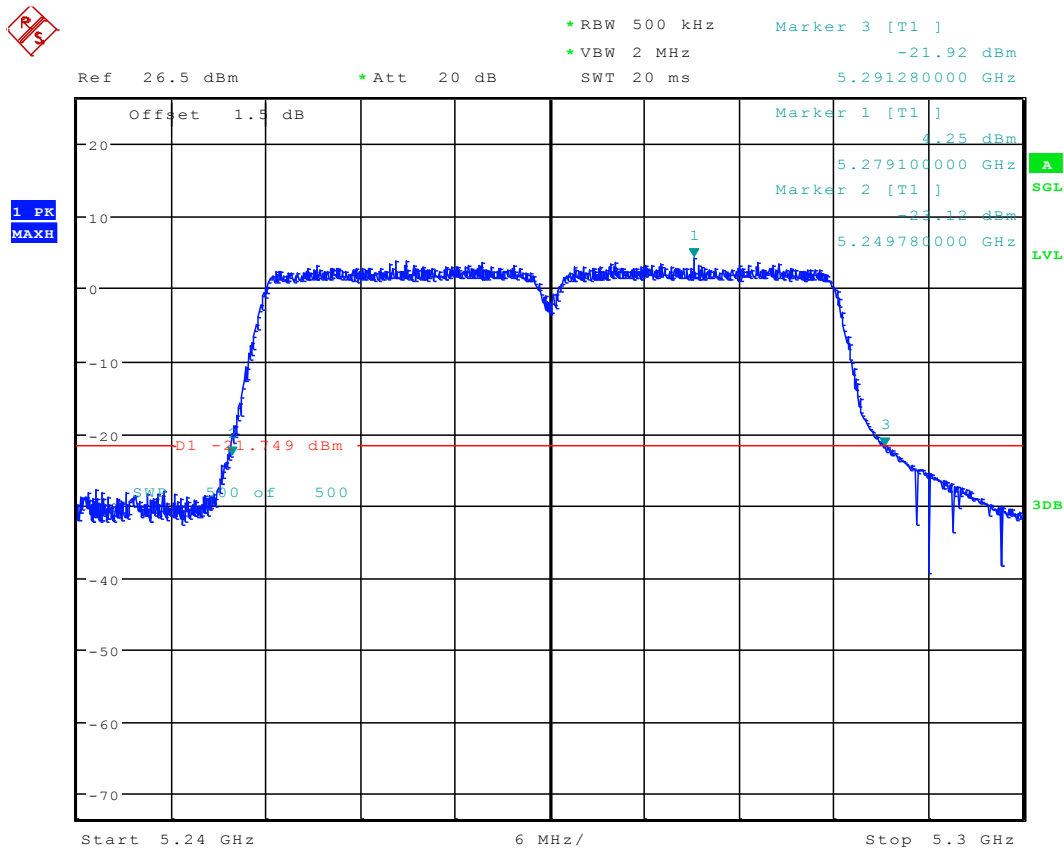
Date: 6.DEC.2016 10:34:33

## 2.26 11AC40\_46 Ant 1



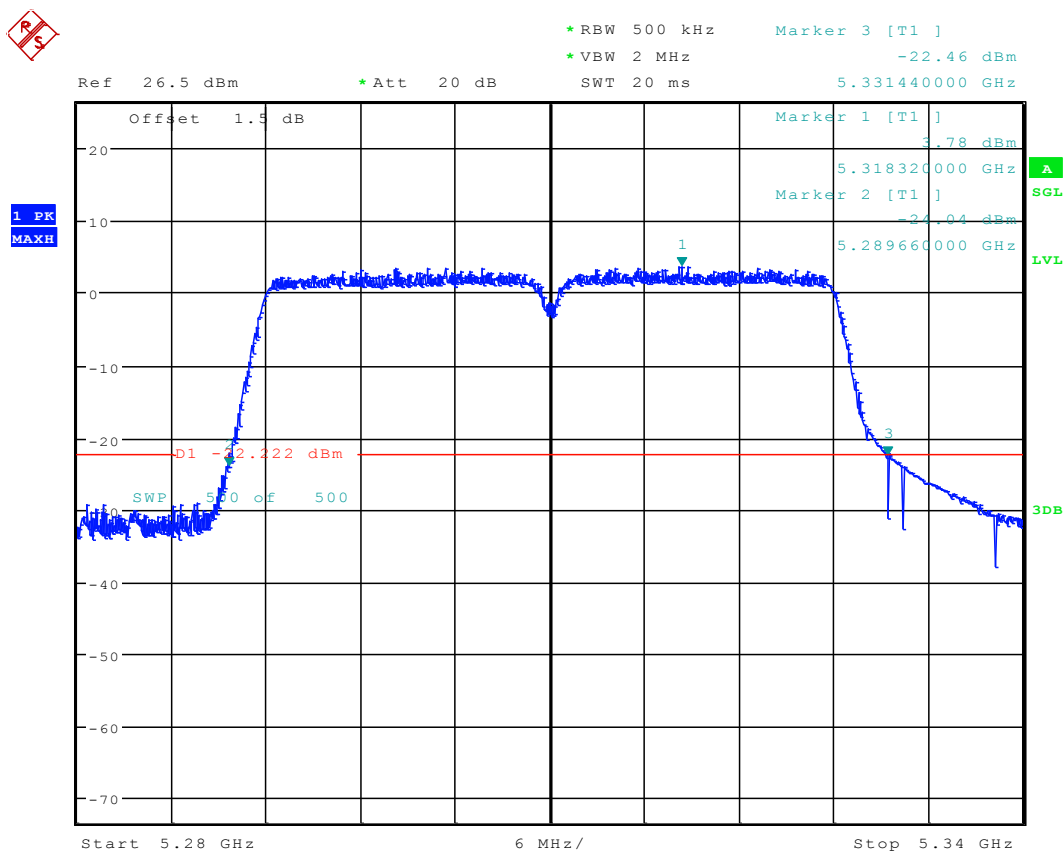
Date: 6.DEC.2016 10:25:27

**2.27 11AC40\_54 Ant 1**



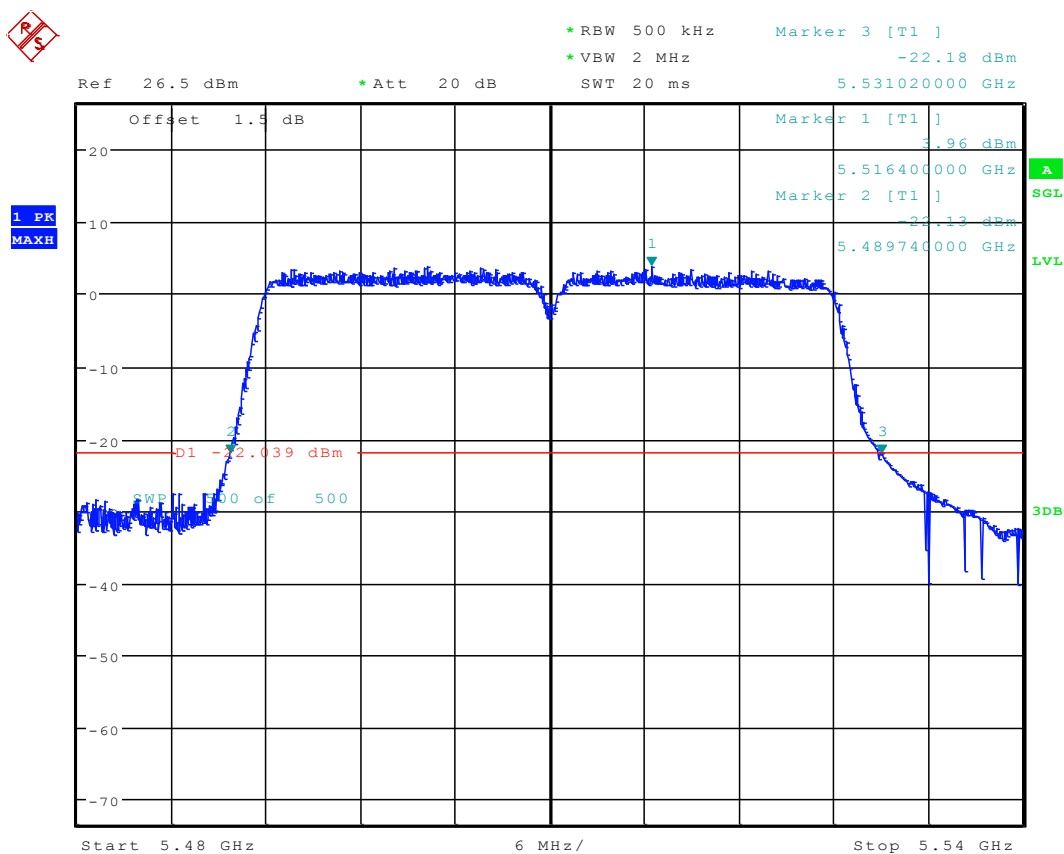
Date: 6.DEC.2016 10:32:28

## 2.28 11AC40\_62 Ant 1



Date: 5.DEC.2016 17:17:14

## 2.29 11AC40\_102 Ant 1

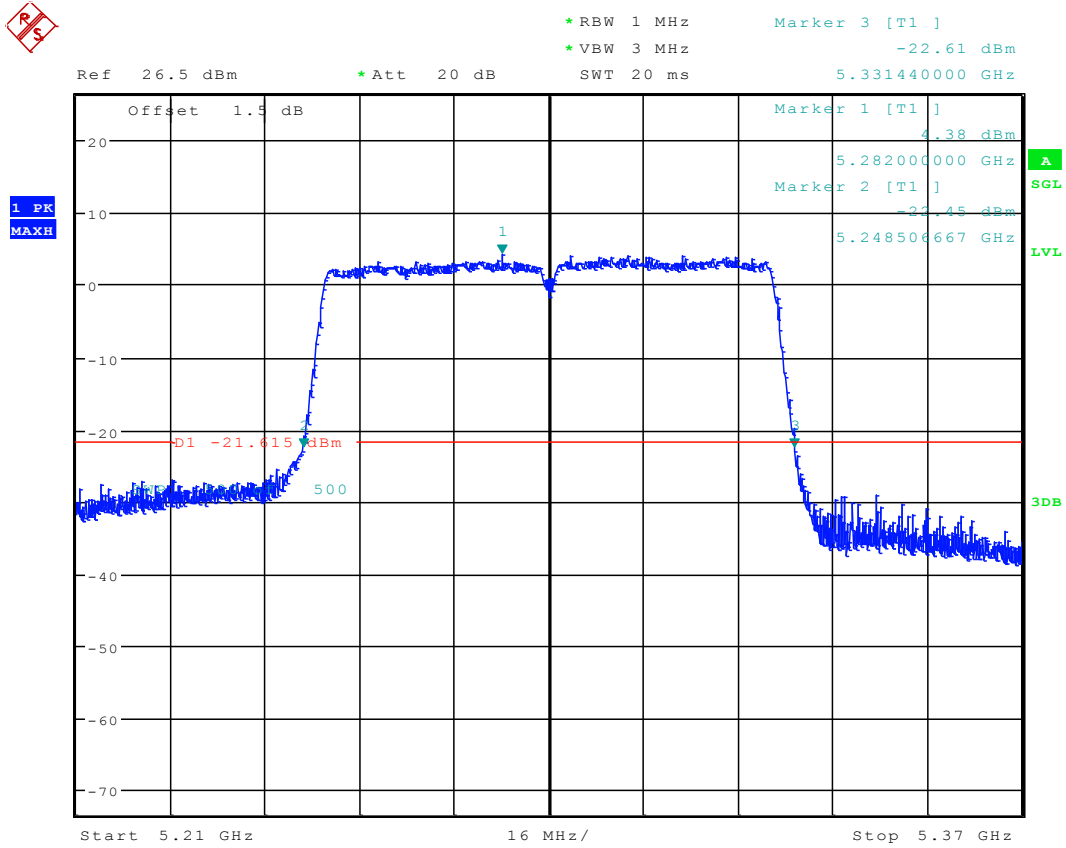


Date: 5.DEC.2016 17:23:24



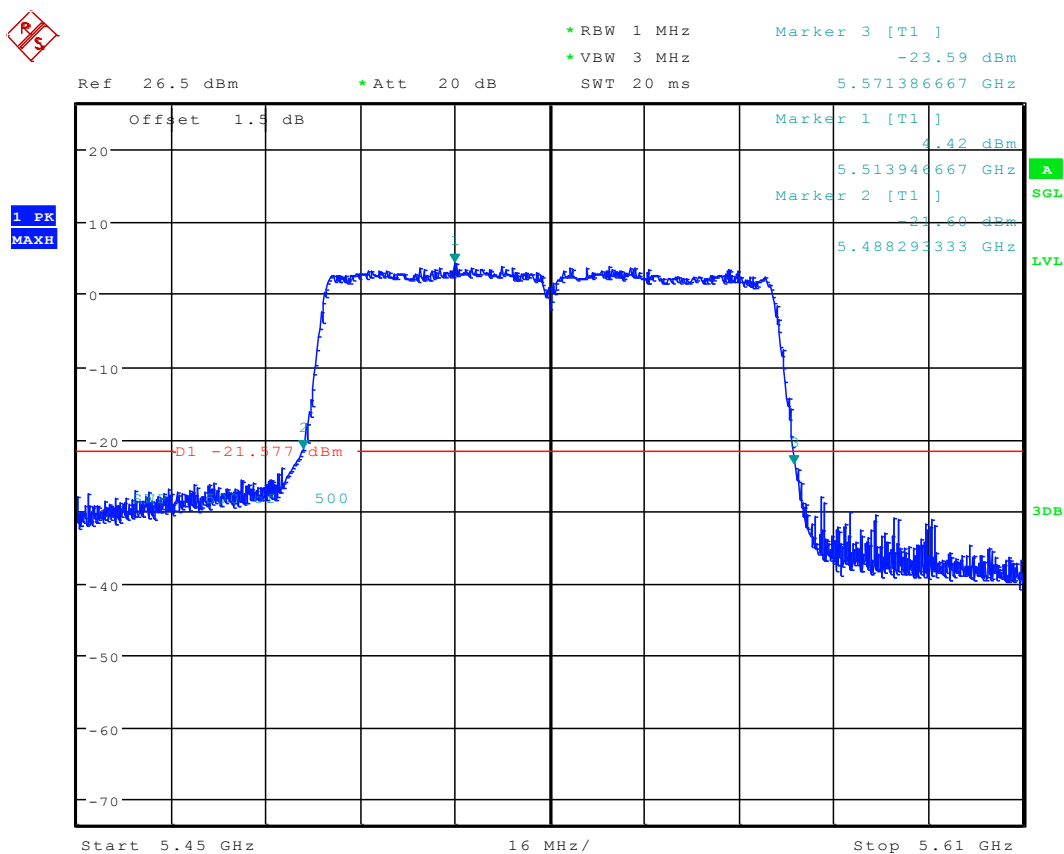


## 2.32 11AC80\_58 Ant 1



Date: 5.DEC.2016 17:58:53

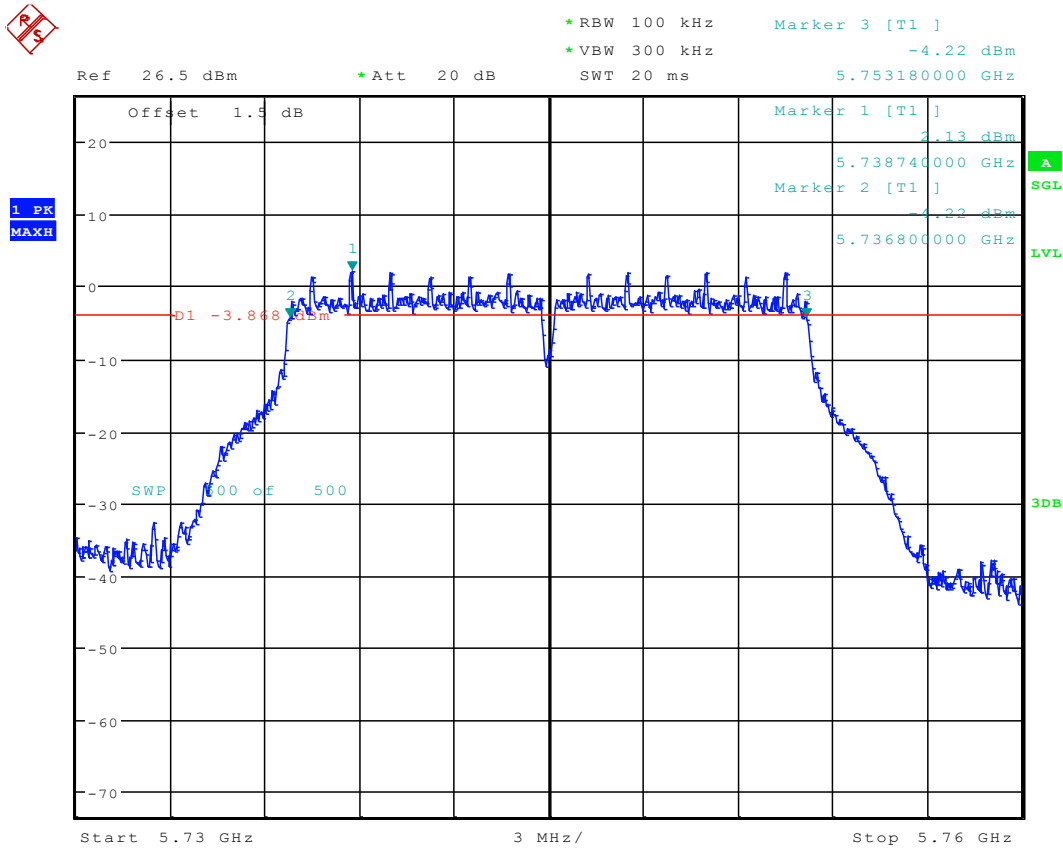
## 2.33 11AC80\_106 Ant 1



Date: 5.DEC.2016 18:06:29

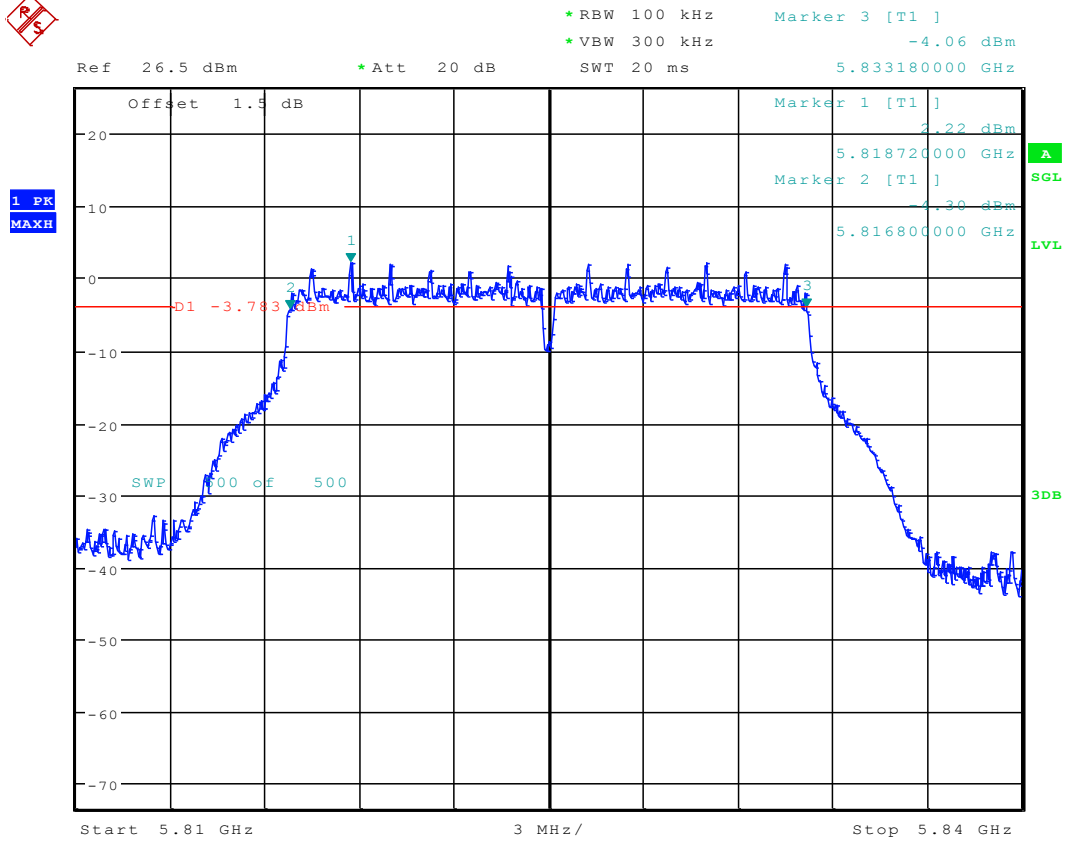
### 3 Test Plot for 6dBEmission Bandwidth

#### 3.1 11A\_149 Ant 1



Date: 5.DEC.2016 12:08:46

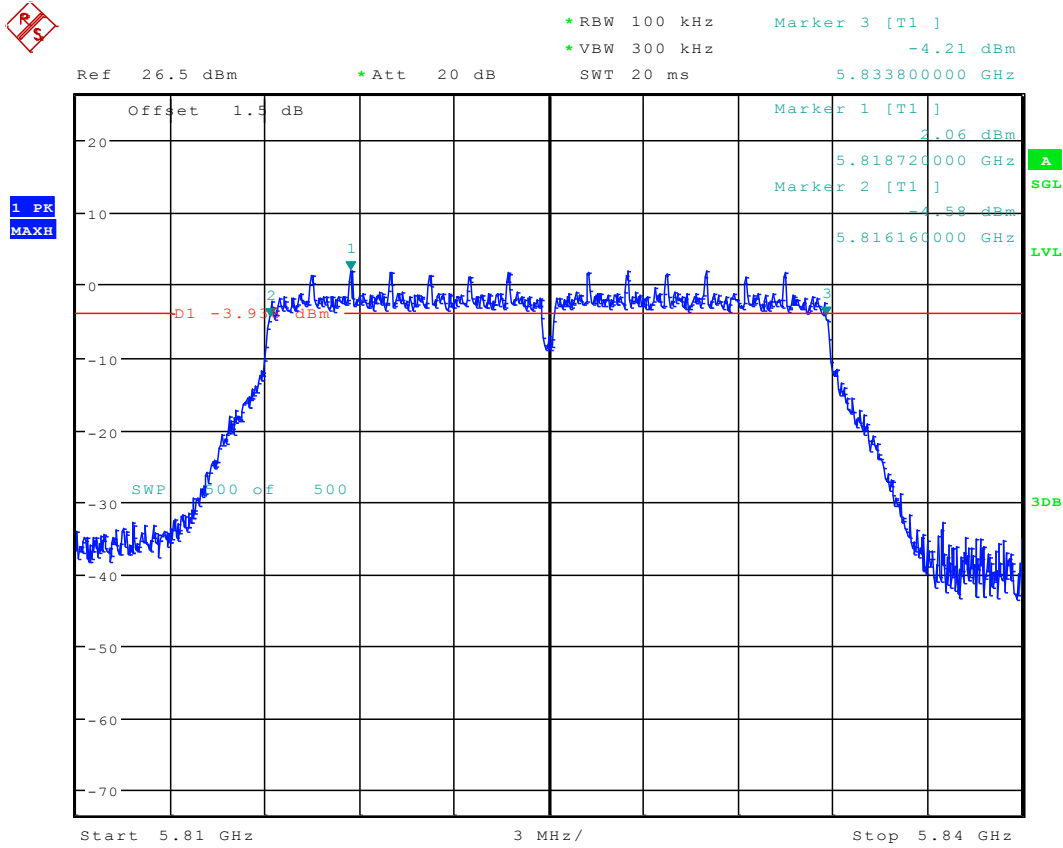
### 3.2 11A\_165 Ant 1



Date: 5.DEC.2016 12:15:46

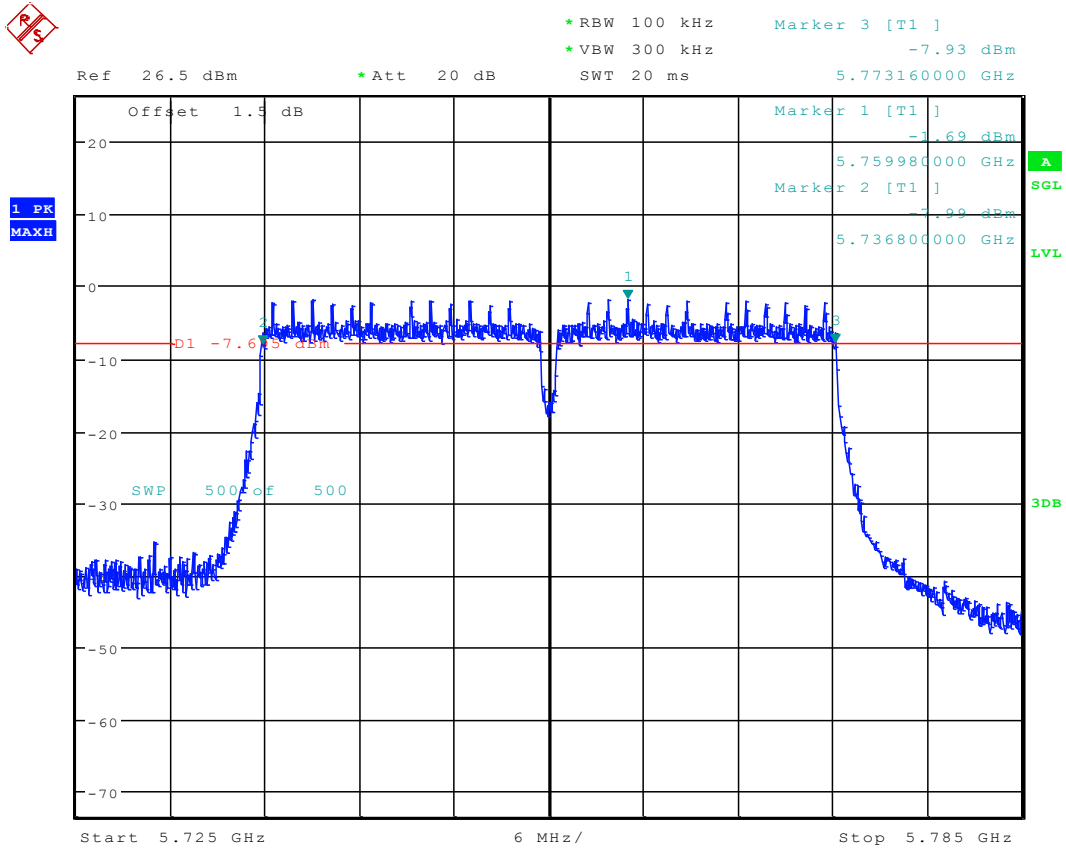


### 3.4 11N20\_165 Ant 1



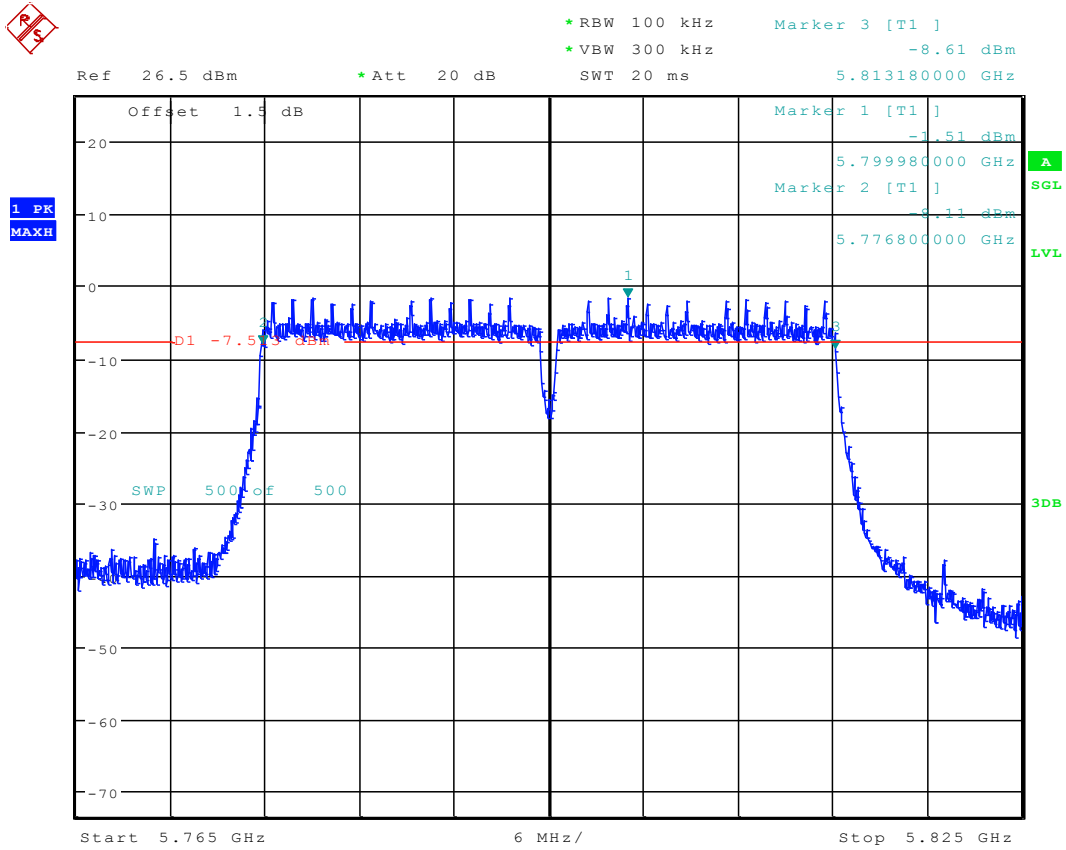
Date: 5.DEC.2016 14:33:59

### 3.5 11N40\_151 Ant 1



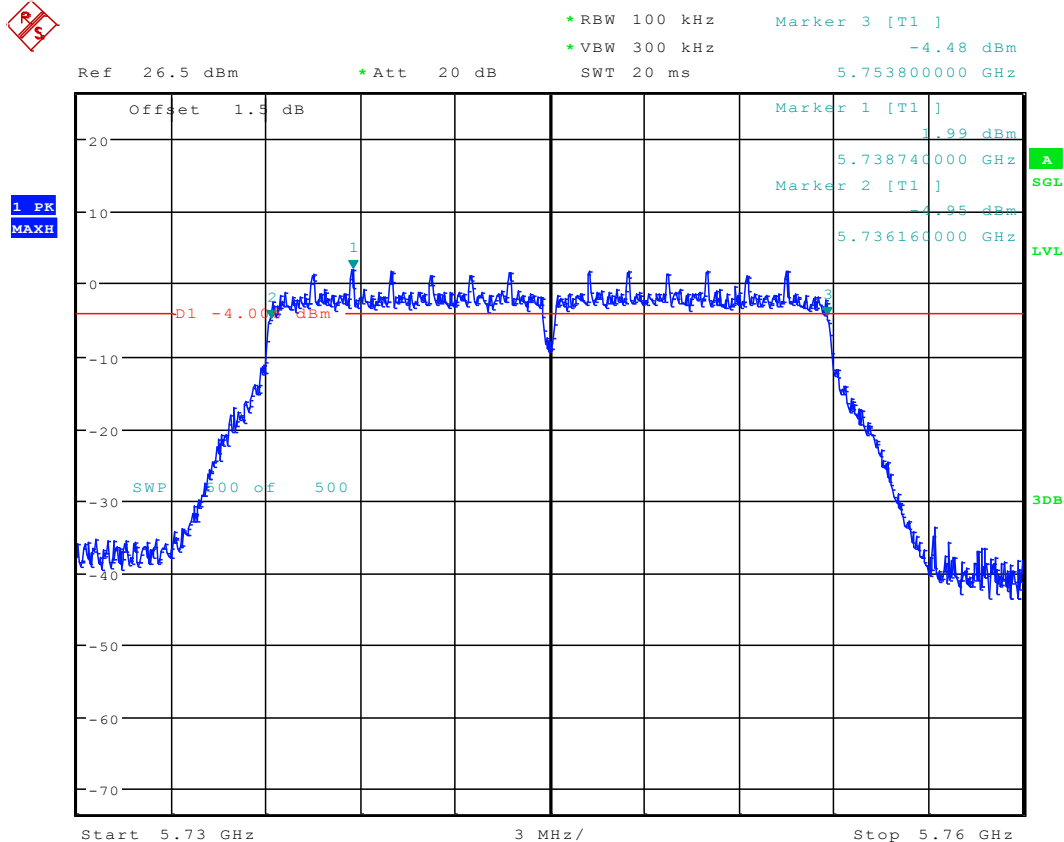
Date: 5.DEC.2016 15:17:01

### 3.6 11N40\_159 Ant 1



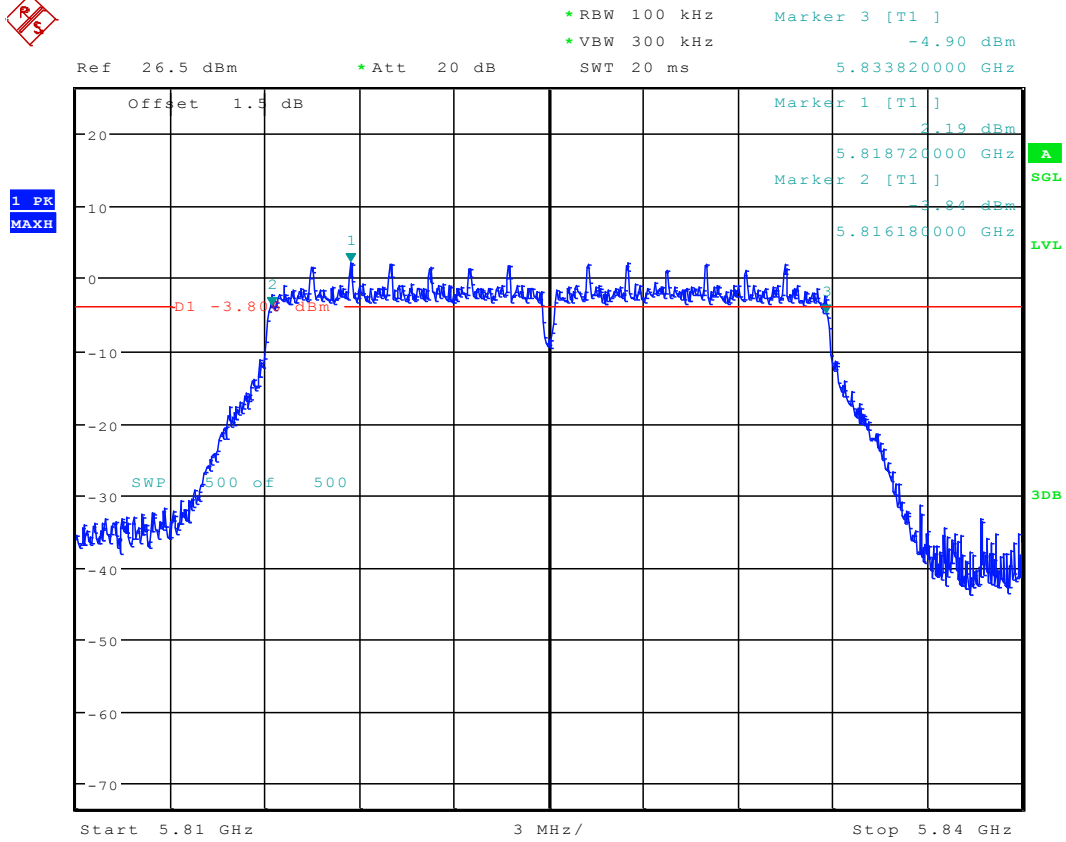
Date: 5.DEC.2016 15:28:21

### 3.7 11AC20\_149 Ant 1



Date: 5.DEC.2016 16:20:12

### 3.8 11AC20\_165 Ant 1

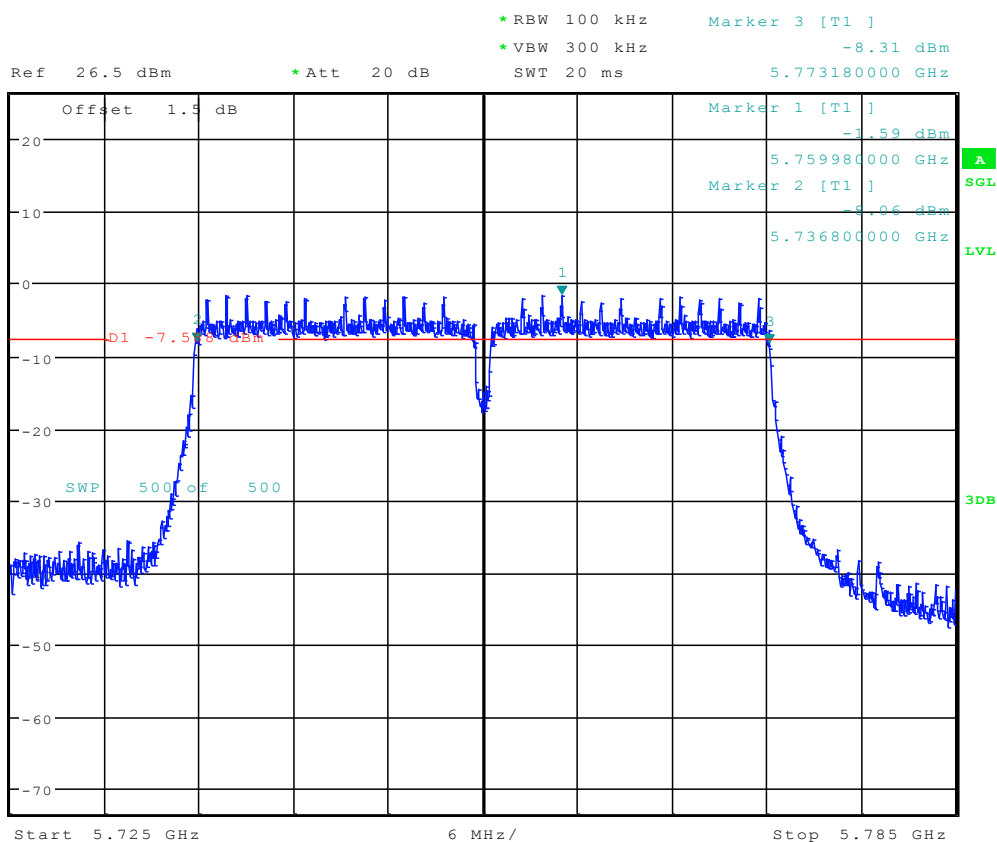


Date: 5.DEC.2016 16:45:21

### 3.9 11AC40\_151 Ant 1

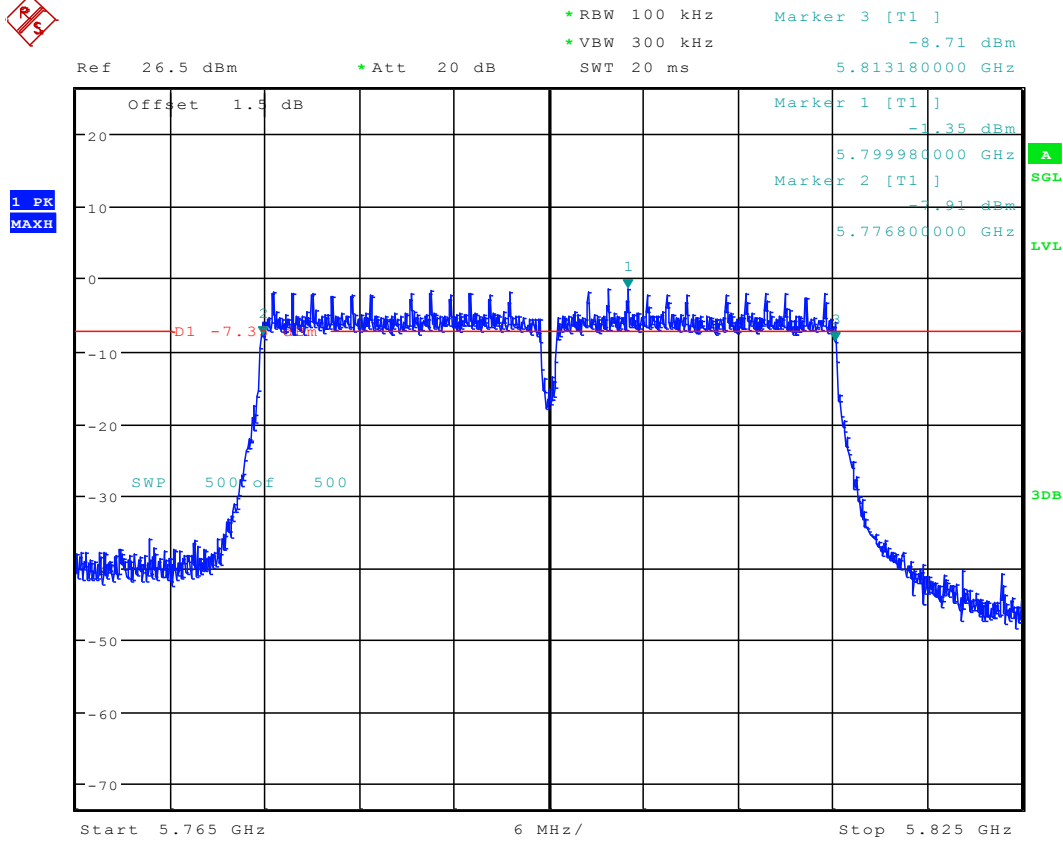


1 PK  
MAXH



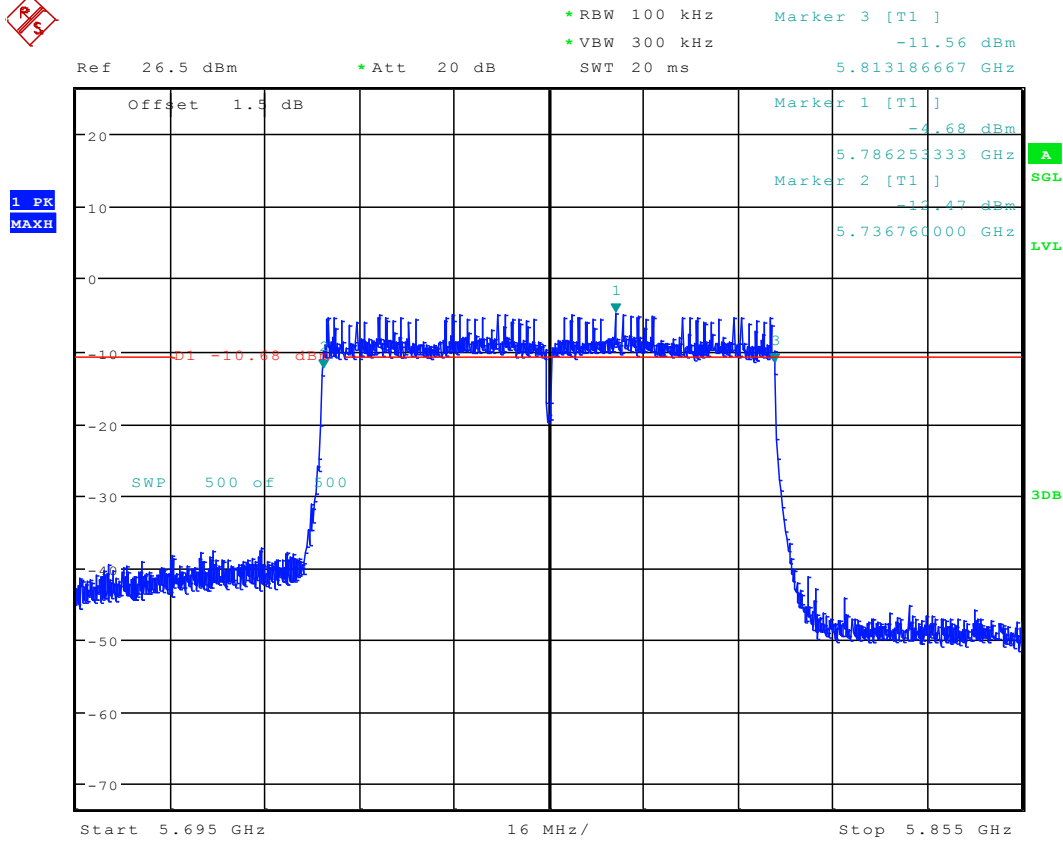
Date: 5.DEC.2016 17:30:40

### 3.1011AC40\_159 Ant 1



Date: 5.DEC.2016 17:37:31

### 3.1111AC80\_155 Ant 1



Date: 5.DEC.2016 18:11:53

# Appendix B Occupied Bandwidth (OBW)

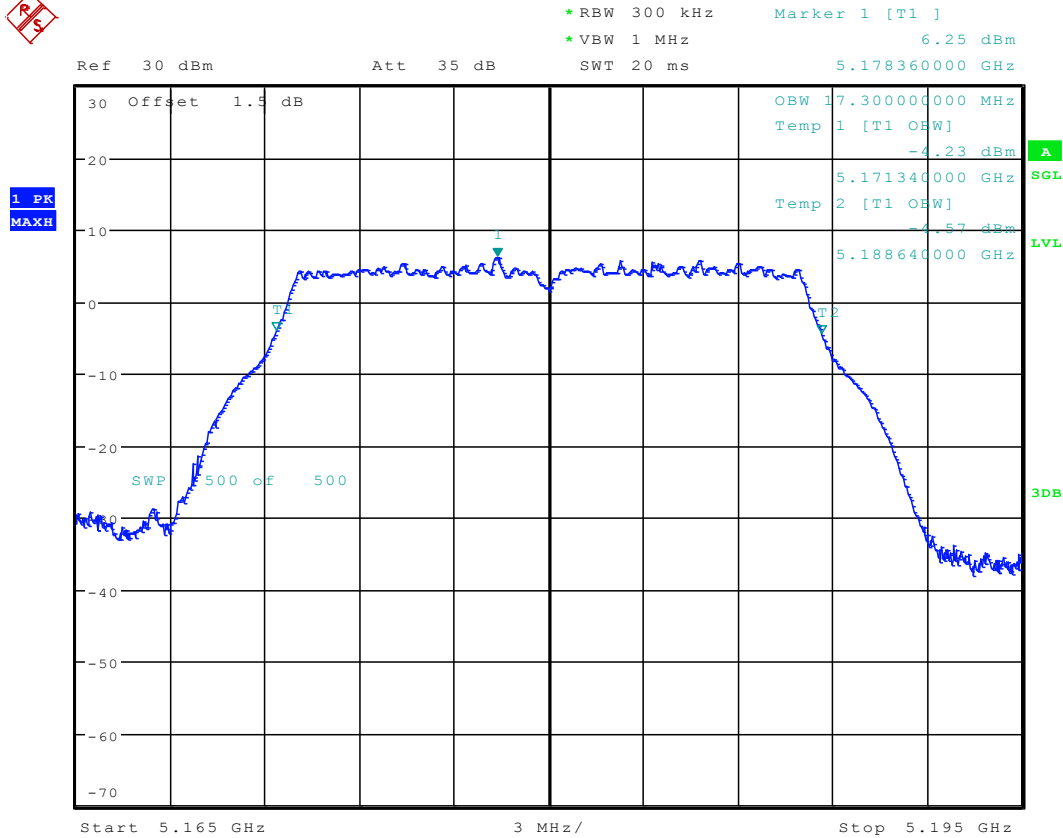
#### 4 (OBW)Result Table

| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Occupied Bandwidth [MHz] | Verdict |
|-----------|--------------|-----------------|--------------|--------------------------|---------|
| 11A       | 36           | 5180            | Ant 1        | 17.30                    | pass    |
|           | 48           | 5240            | Ant 1        | 17.34                    | pass    |
|           | 52           | 5260            | Ant 1        | 17.32                    | pass    |
|           | 64           | 5320            | Ant 1        | 17.32                    | pass    |
|           | 100          | 5500            | Ant 1        | 17.32                    | pass    |
|           | 140          | 5700            | Ant 1        | 17.32                    | pass    |
|           | 149          | 5745            | Ant 1        | 17.36                    | pass    |
|           | 165          | 5825            | Ant 1        | 17.32                    | pass    |
| 11N20     | 36           | 5180            | Ant 1        | 18.40                    | pass    |
|           | 48           | 5240            | Ant 1        | 18.38                    | pass    |
|           | 52           | 5260            | Ant 1        | 18.42                    | pass    |
|           | 64           | 5320            | Ant 1        | 18.38                    | pass    |
|           | 100          | 5500            | Ant 1        | 18.38                    | pass    |
|           | 140          | 5700            | Ant 1        | 18.38                    | pass    |
|           | 149          | 5745            | Ant 1        | 18.40                    | pass    |
|           | 165          | 5825            | Ant 1        | 18.38                    | pass    |
| 11N40     | 38           | 5190            | Ant 1        | 36.62                    | pass    |
|           | 46           | 5230            | Ant 1        | 36.62                    | pass    |
|           | 54           | 5270            | Ant 1        | 36.66                    | pass    |
|           | 62           | 5310            | Ant 1        | 36.62                    | pass    |
|           | 102          | 5510            | Ant 1        | 36.62                    | pass    |
|           | 134          | 5670            | Ant 1        | 36.62                    | pass    |
|           | 151          | 5755            | Ant 1        | 36.64                    | pass    |
|           | 159          | 5795            | Ant 1        | 36.60                    | pass    |
| 11AC20    | 36           | 5180            | Ant 1        | 18.36                    | pass    |
|           | 48           | 5240            | Ant 1        | 18.34                    | pass    |
|           | 52           | 5260            | Ant 1        | 18.36                    | pass    |
|           | 64           | 5320            | Ant 1        | 18.34                    | pass    |
|           | 100          | 5500            | Ant 1        | 18.34                    | pass    |
|           | 140          | 5700            | Ant 1        | 18.38                    | pass    |
|           | 149          | 5745            | Ant 1        | 18.38                    | pass    |
|           | 165          | 5825            | Ant 1        | 18.36                    | pass    |

|        |     |      |       |       |      |
|--------|-----|------|-------|-------|------|
| 11AC40 | 38  | 5190 | Ant 1 | 36.58 | pass |
|        | 46  | 5230 | Ant 1 | 36.60 | pass |
|        | 54  | 5270 | Ant 1 | 36.62 | pass |
|        | 62  | 5310 | Ant 1 | 36.60 | pass |
|        | 102 | 5510 | Ant 1 | 36.60 | pass |
|        | 134 | 5670 | Ant 1 | 36.58 | pass |
|        | 151 | 5755 | Ant 1 | 36.60 | pass |
|        | 159 | 5795 | Ant 1 | 36.56 | pass |
| 11AC80 | 42  | 5210 | Ant 1 | 76.04 | pass |
|        | 58  | 5290 | Ant 1 | 76.16 | pass |
|        | 106 | 5530 | Ant 1 | 76.04 | pass |
|        | 155 | 5775 | Ant 1 | 76.12 | pass |

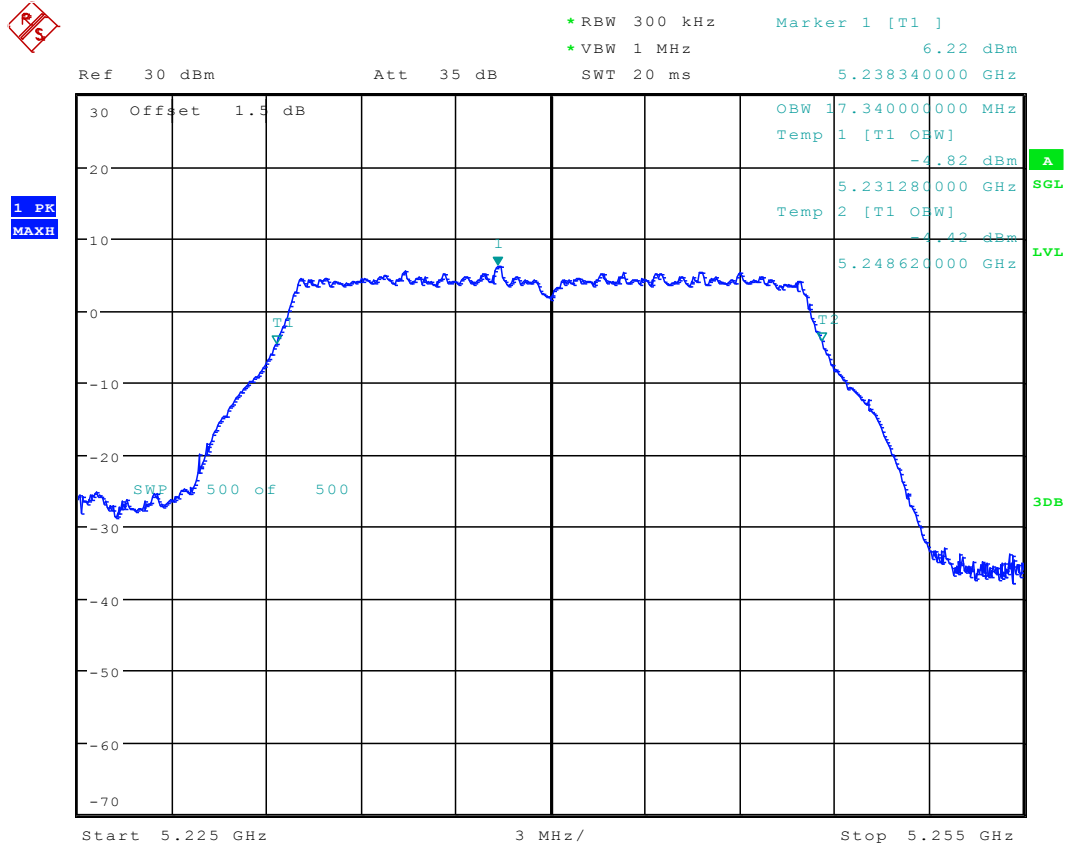
## 5 Test Plot

### 5.1 11A\_36 Ant 1



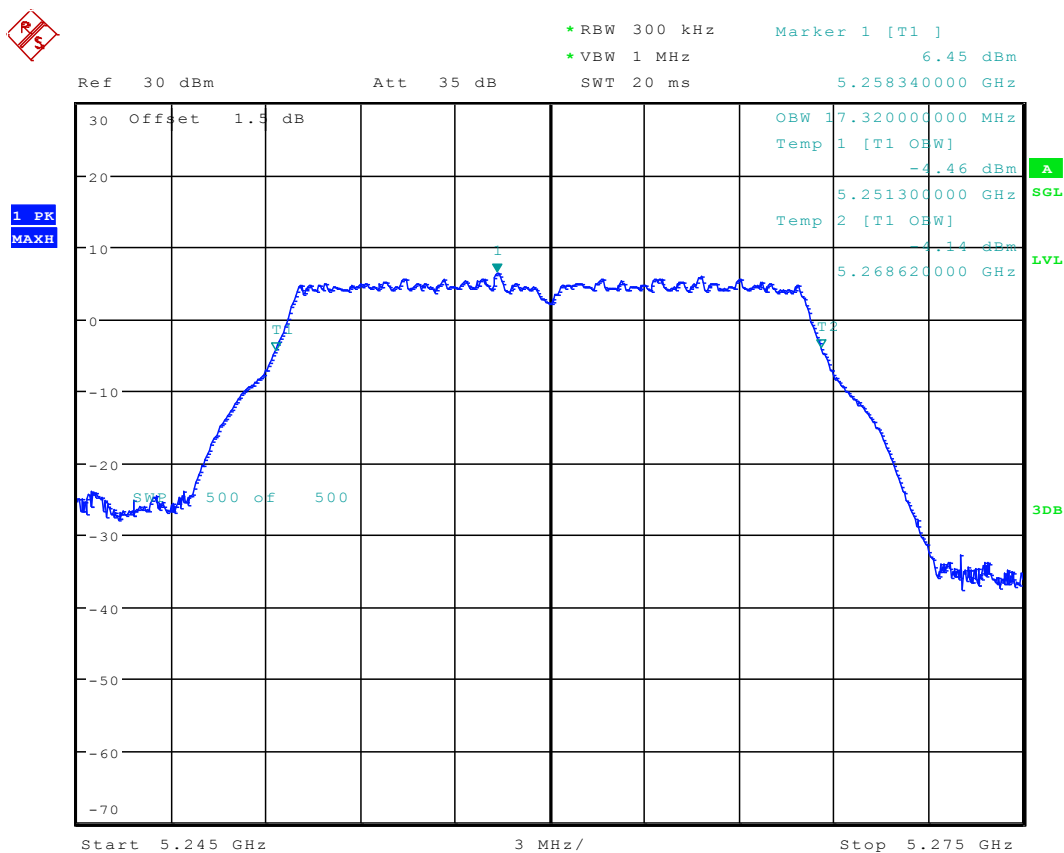
Date: 5.DEC.2016 11:29:39

## 5.2 11A\_48 Ant 1



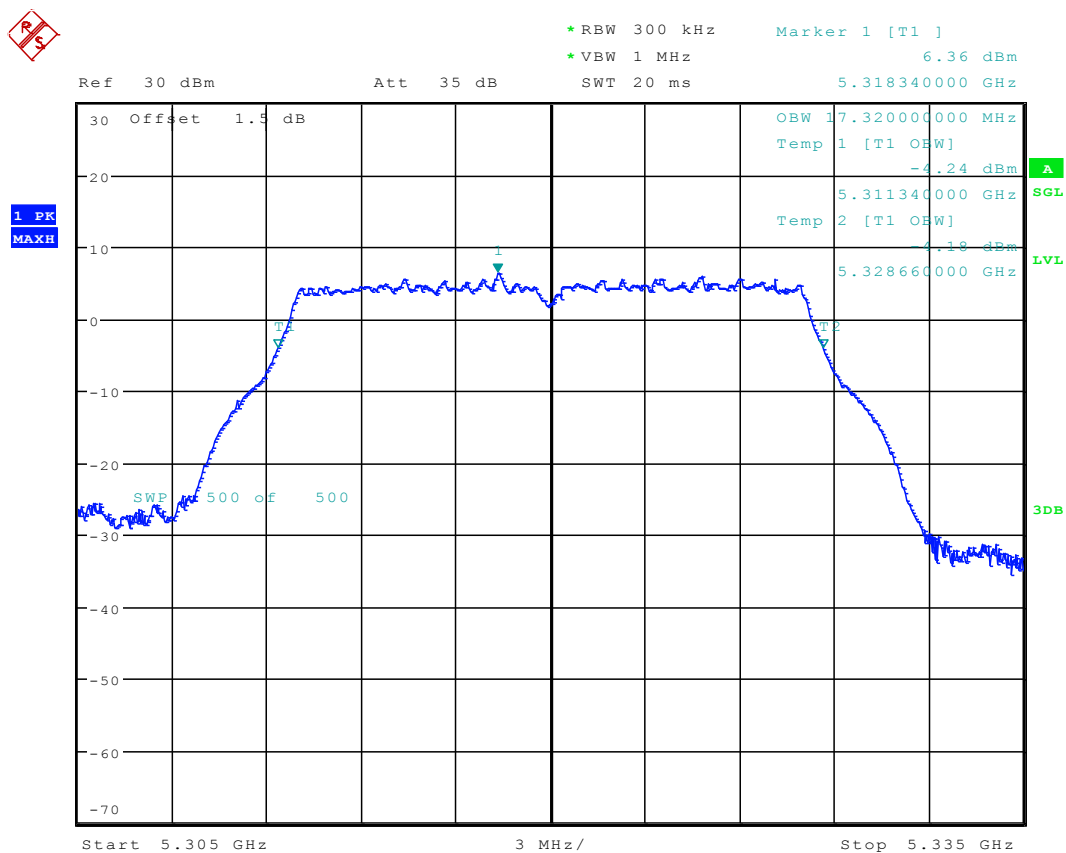
Date: 5.DEC.2016 11:35:09

### 5.3 11A\_52 Ant 1



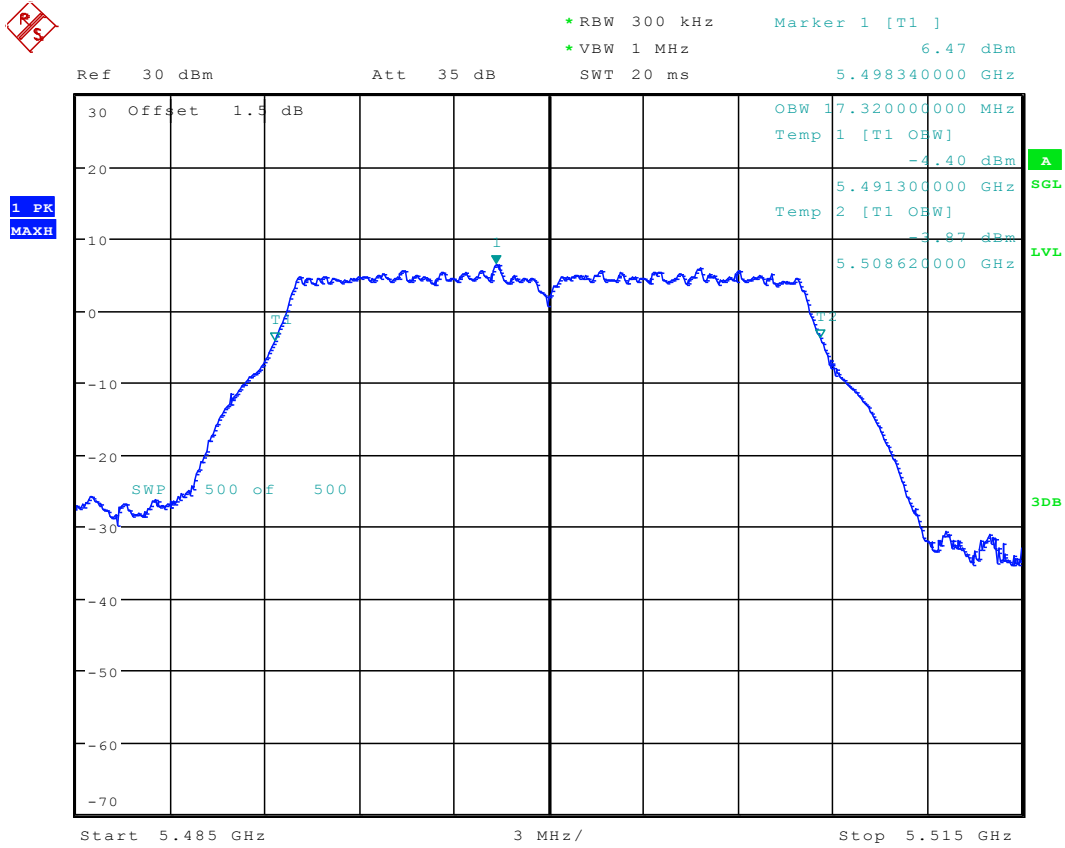
Date: 5.DEC.2016 11:43:45

## 5.4 11A\_64 Ant 1



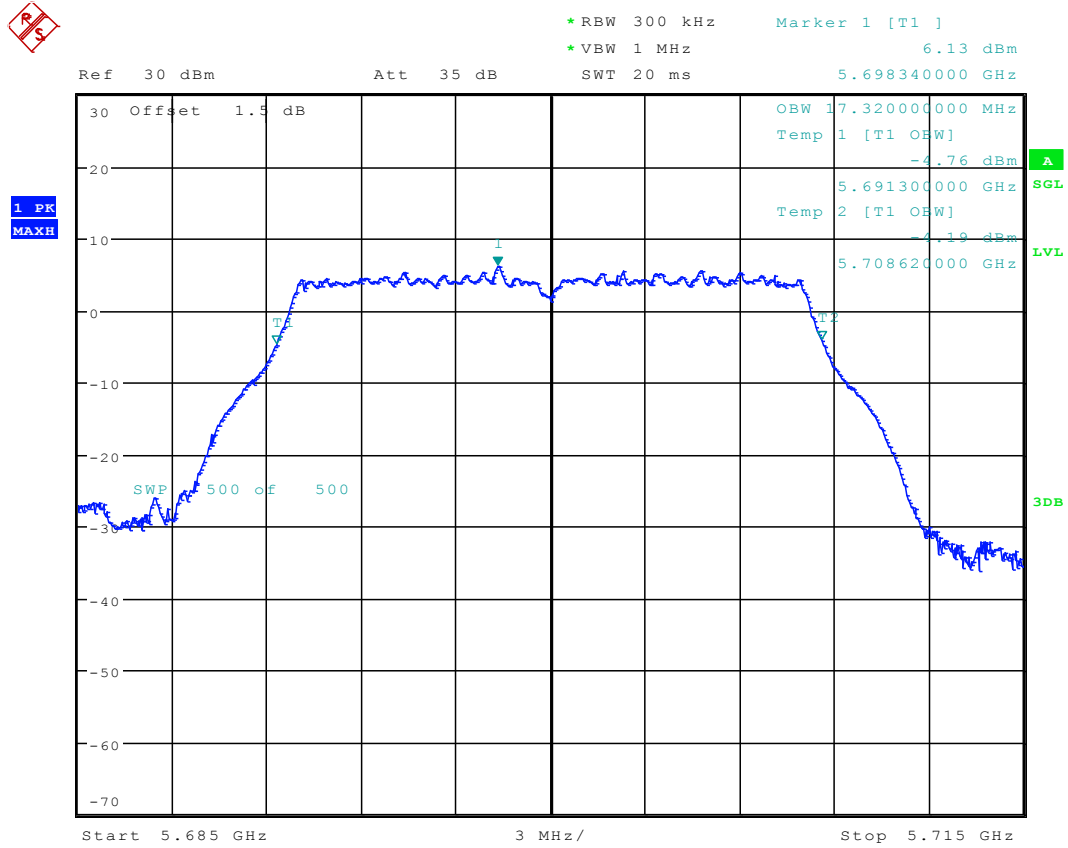
Date: 5.DEC.2016 11:49:01

## 5.5 11A\_100 Ant 1



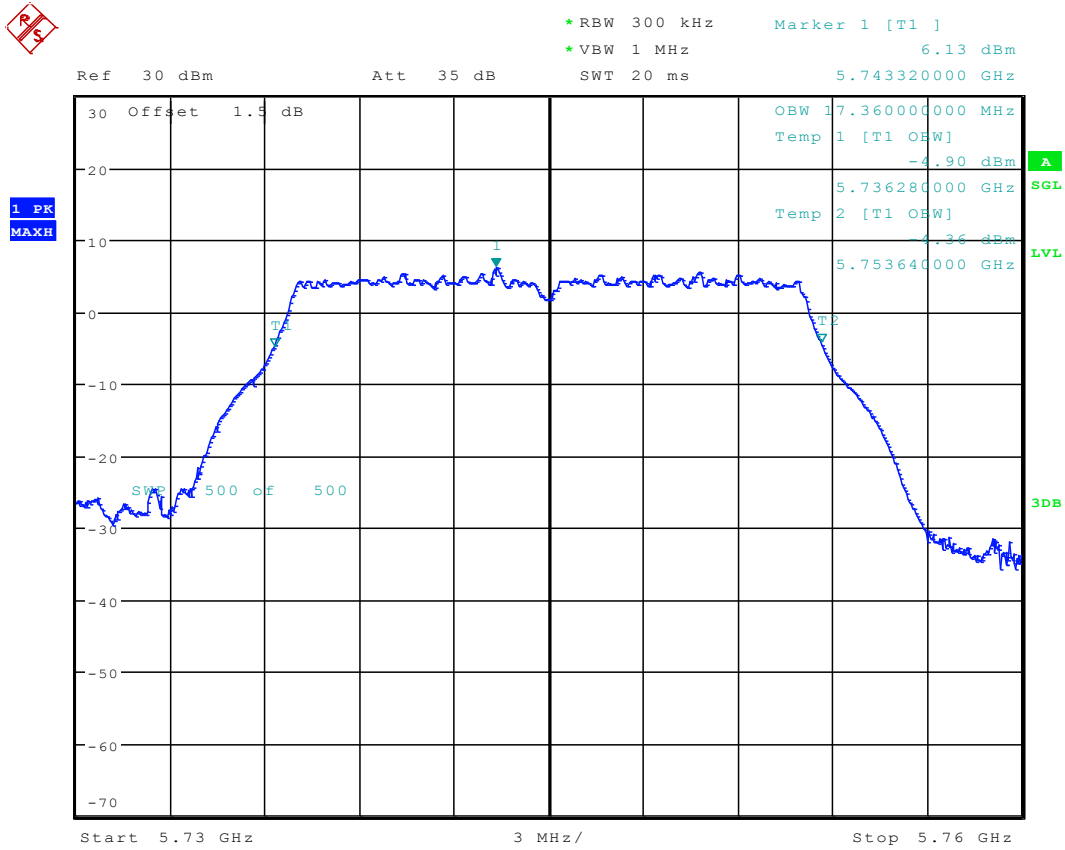
Date: 5.DEC.2016 11:55:13

## 5.6 11A\_140 Ant 1



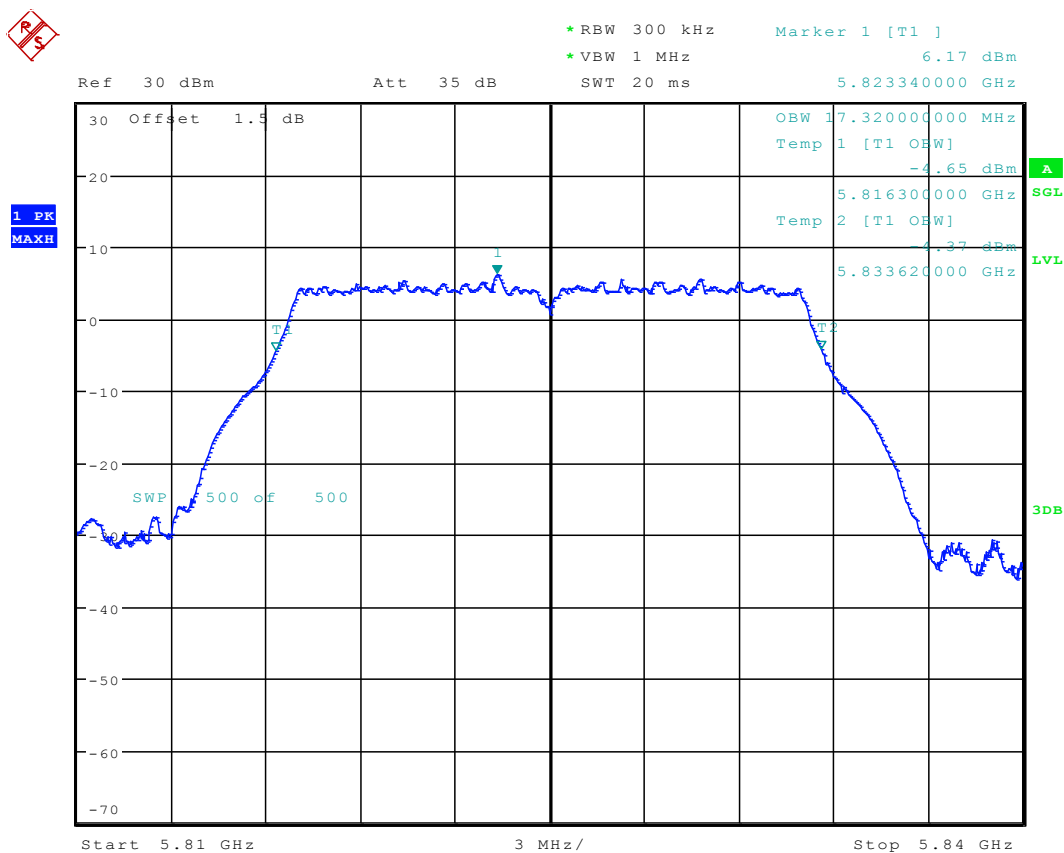
Date: 5.DEC.2016 12:00:29

## 5.7 11A\_149 Ant 1



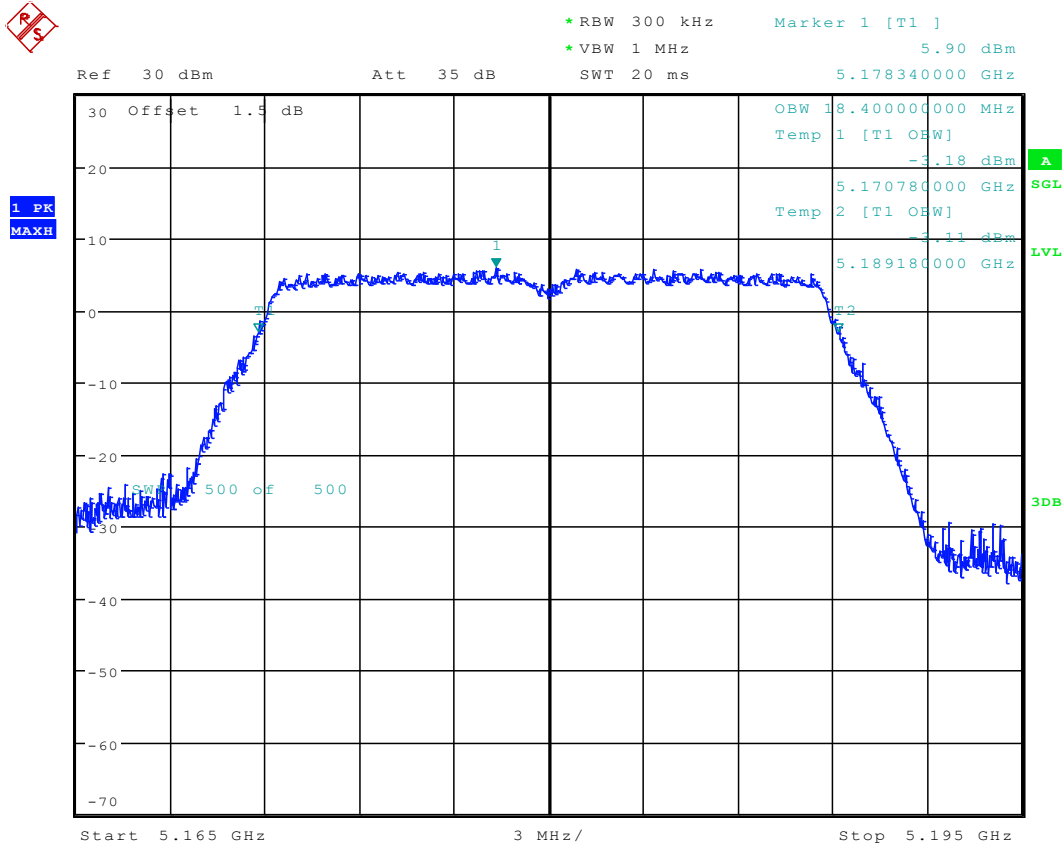
Date: 5.DEC.2016 12:09:31

## 5.8 11A\_165 Ant 1



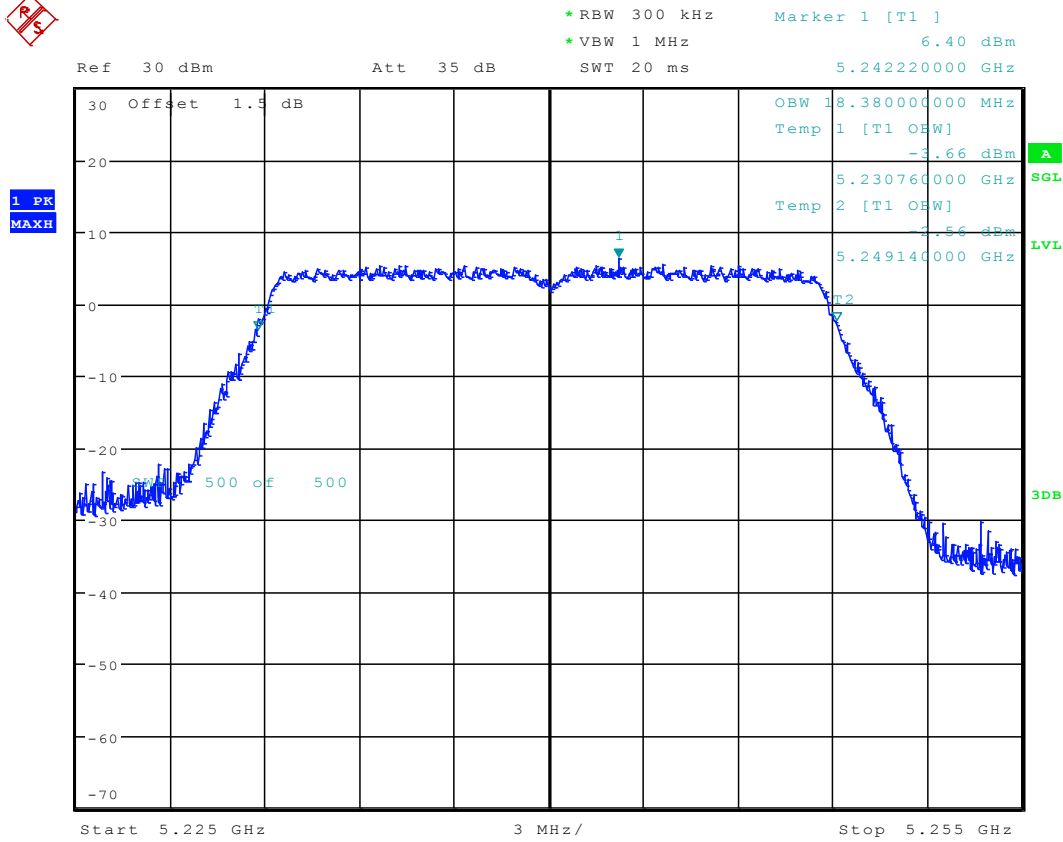
Date: 5.DEC.2016 12:16:31

## 5.9 11N20\_36 Ant 1



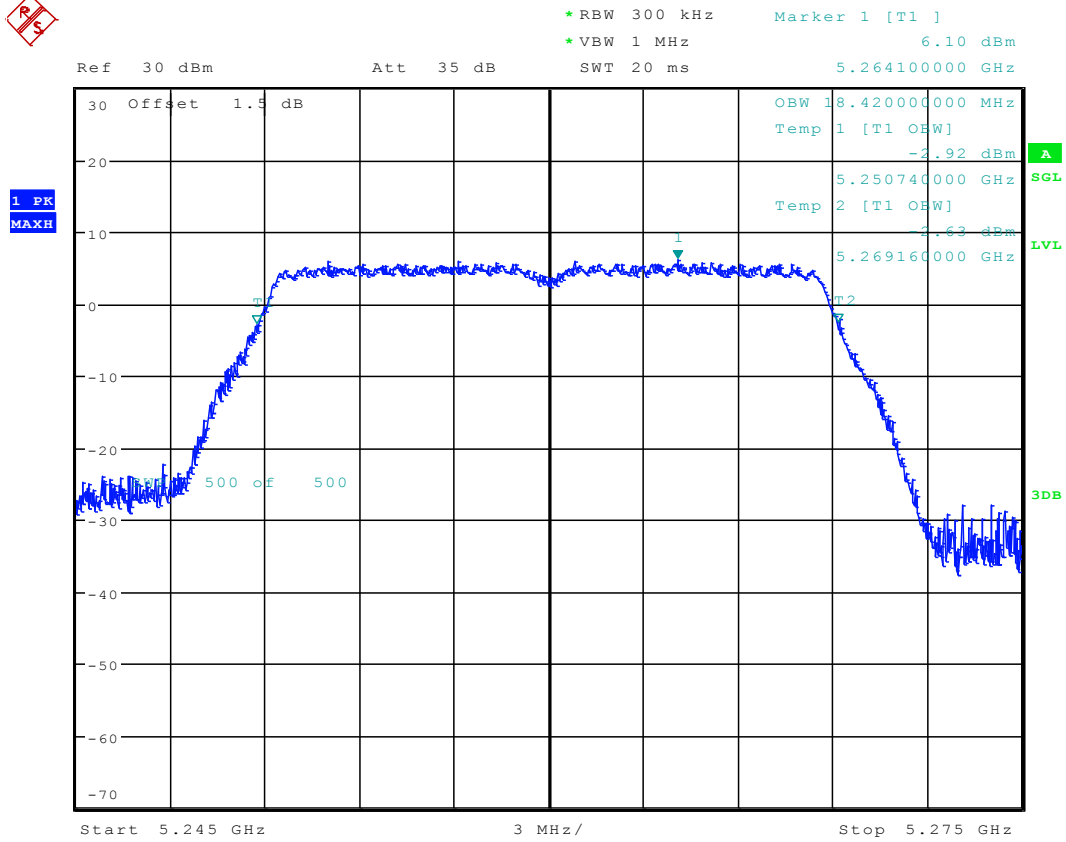
Date: 5.DEC.2016 12:22:45

### 5.10 11N20\_48 Ant 1



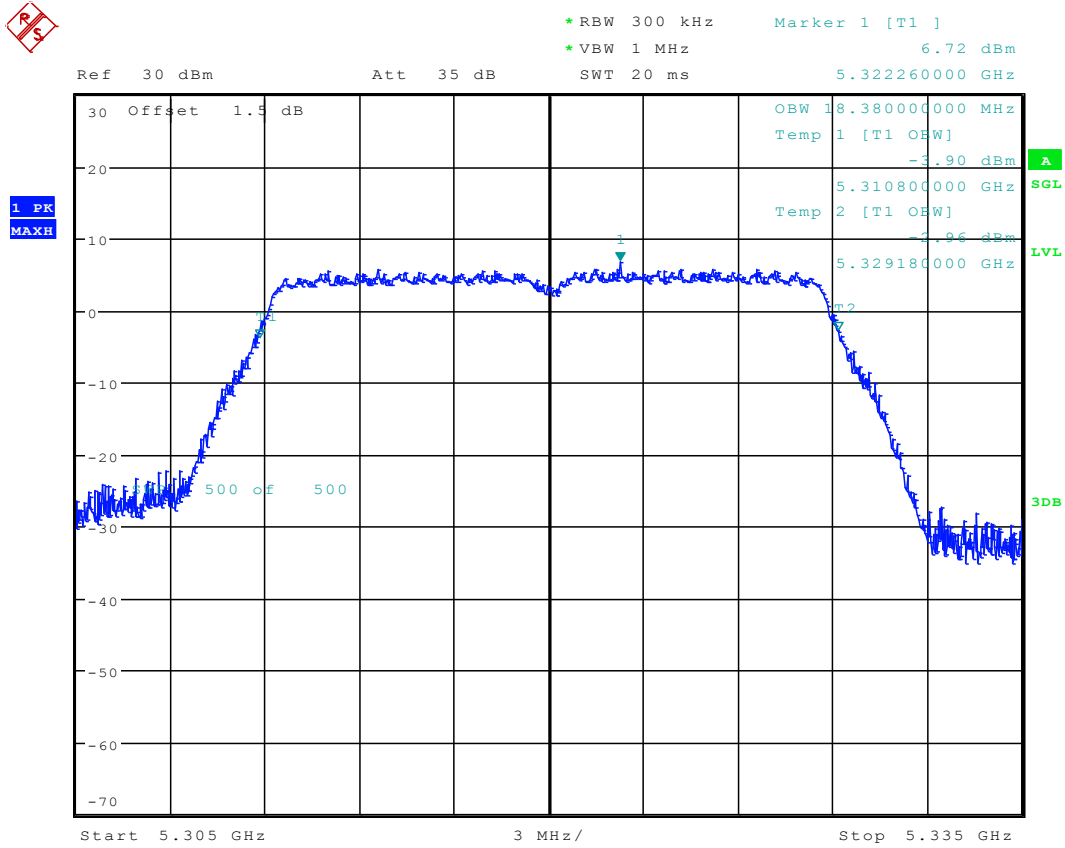
Date: 5.DEC.2016 12:29:34

### 5.11 11N20\_52 Ant 1



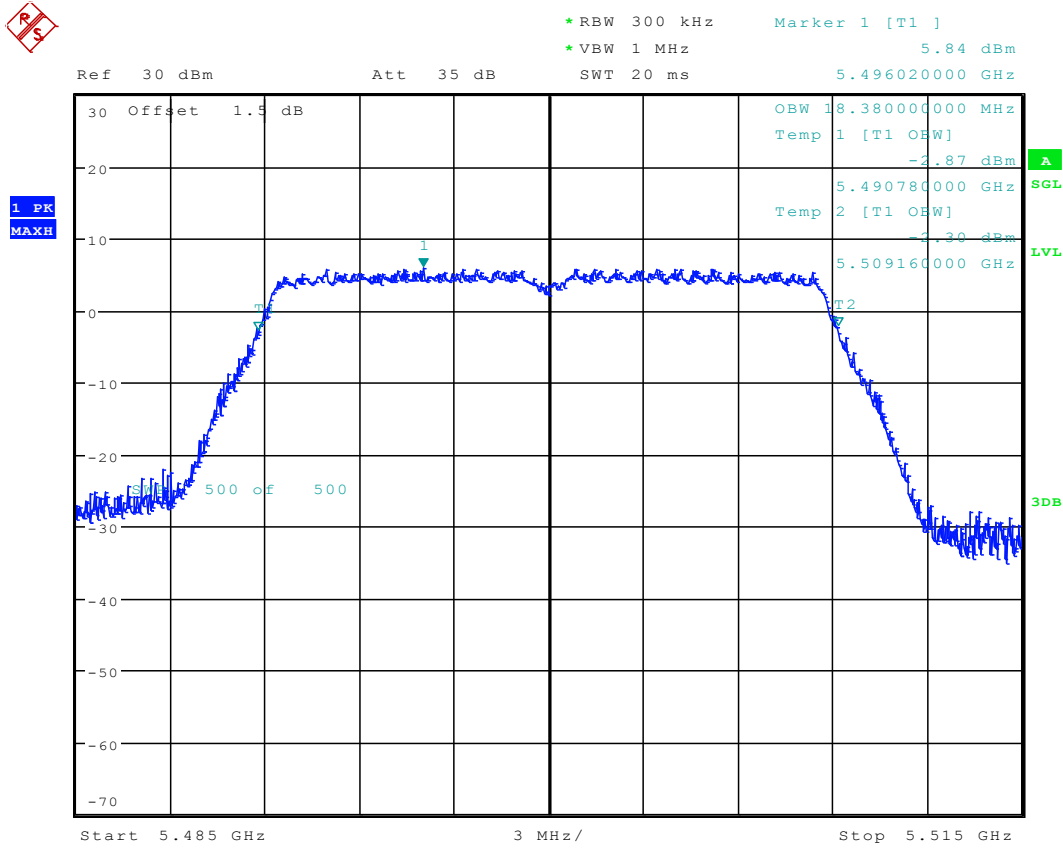
Date: 5.DEC.2016 12:34:58

## 5.12 11N20\_64 Ant 1



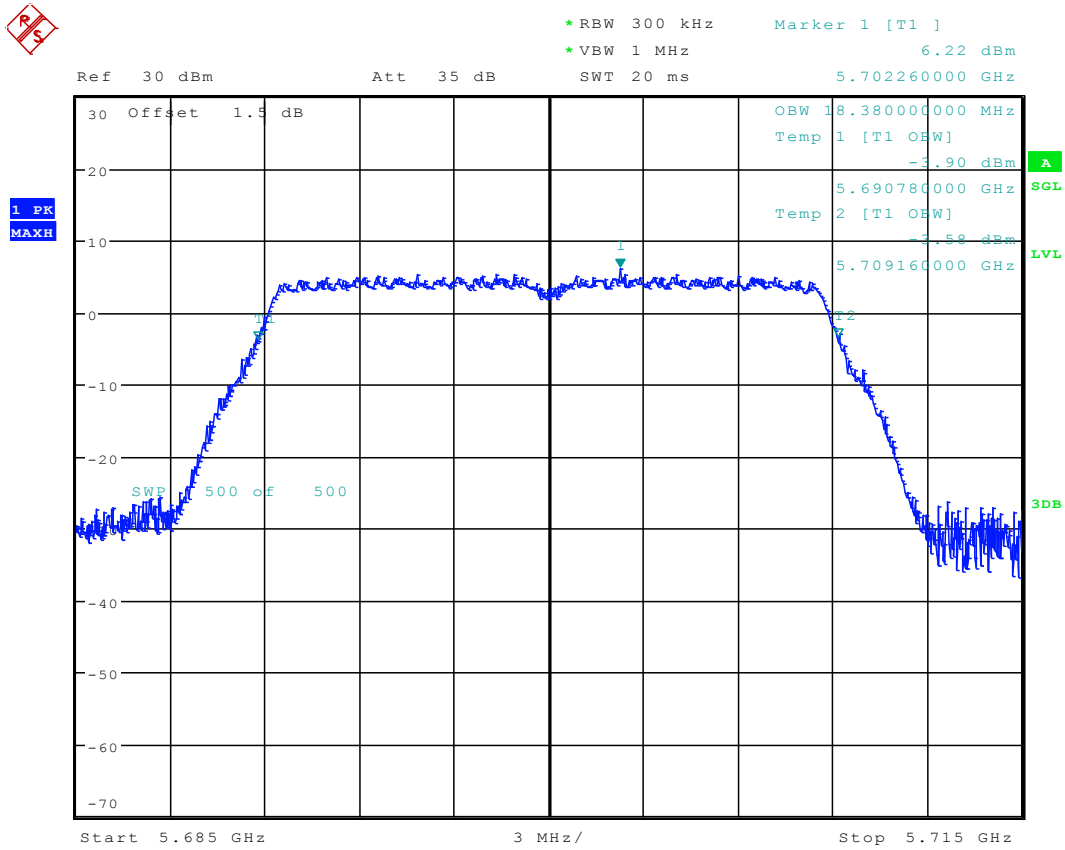
Date: 5.DEC.2016 12:40:26

### 5.13 11N20\_100 Ant 1



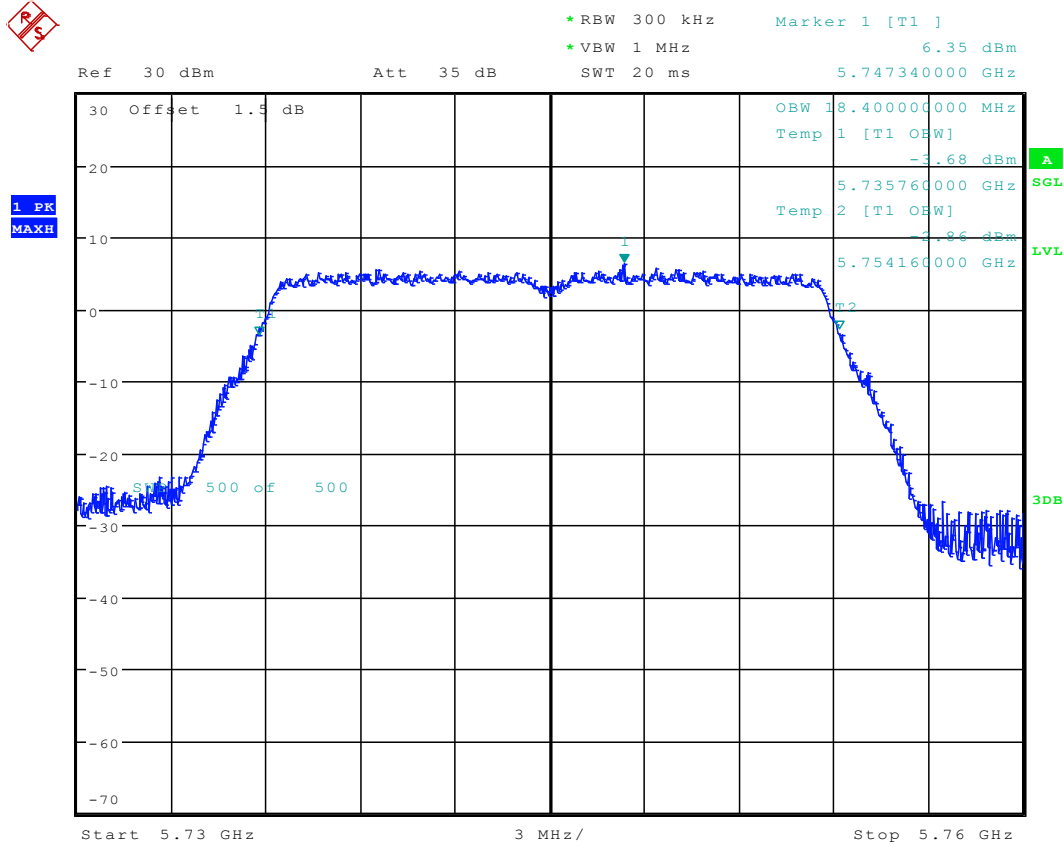
Date: 5.DEC.2016 12:49:00

## 5.14 11N20\_140 Ant 1



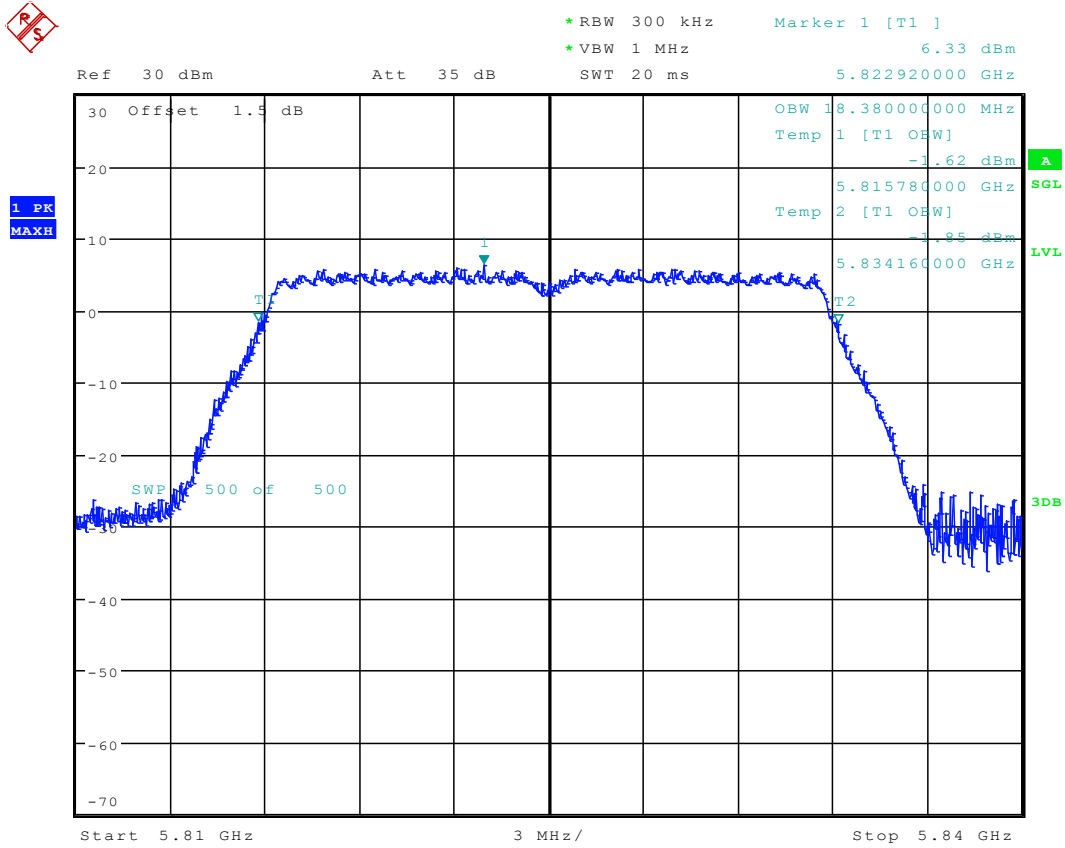
Date: 5.DEC.2016 14:40:56

## 5.15 11N20\_149 Ant 1



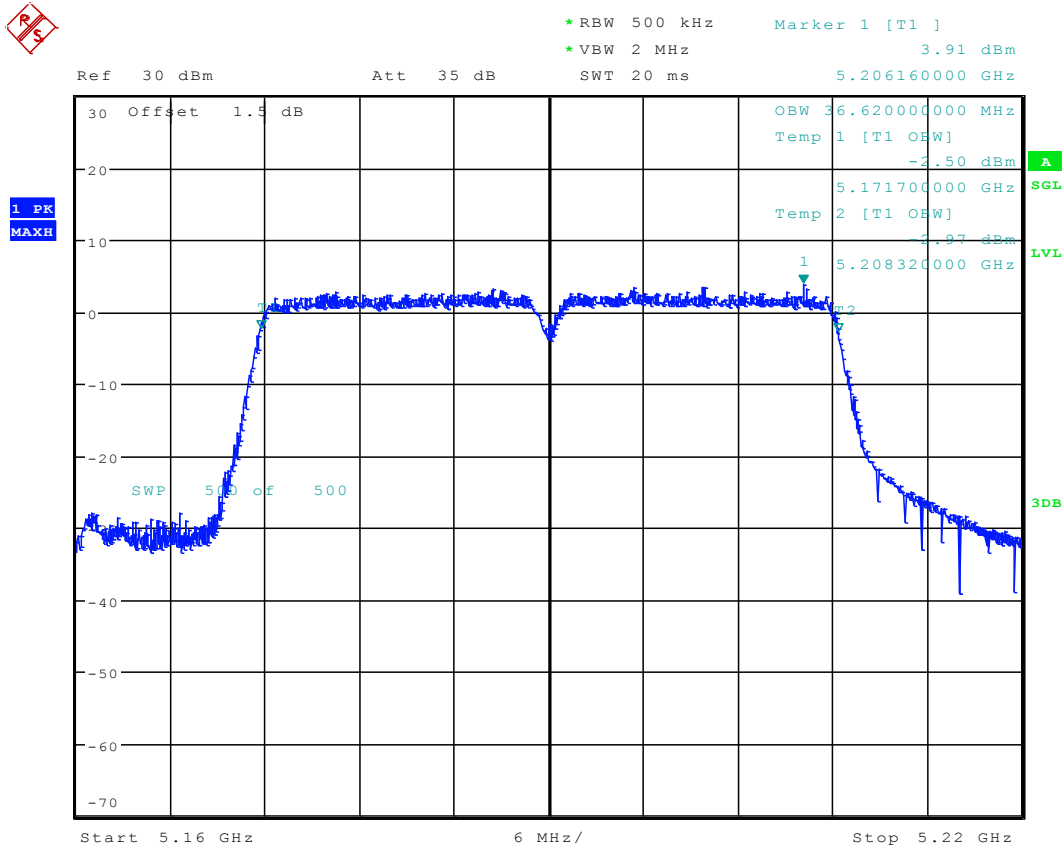
Date: 5.DEC.2016 14:31:06

### 5.16 11N20\_165 Ant 1



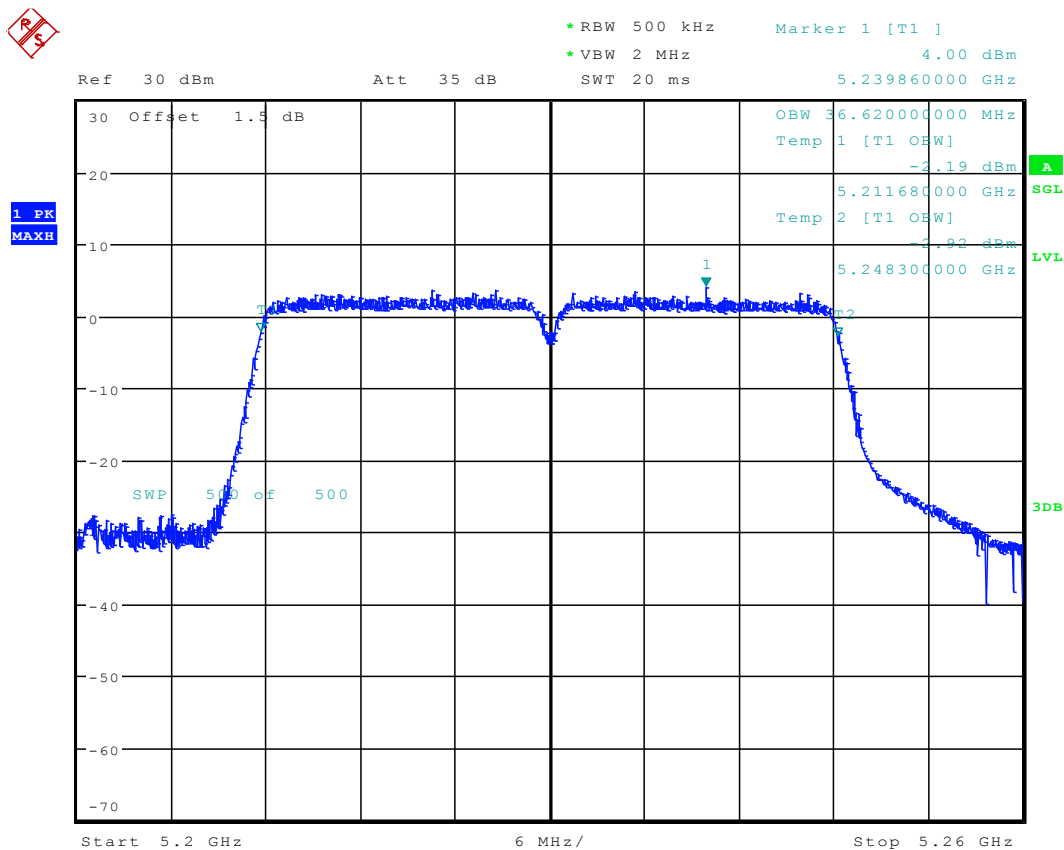
Date: 5.DEC.2016 14:34:44

### 5.17 11N40\_38 Ant 1



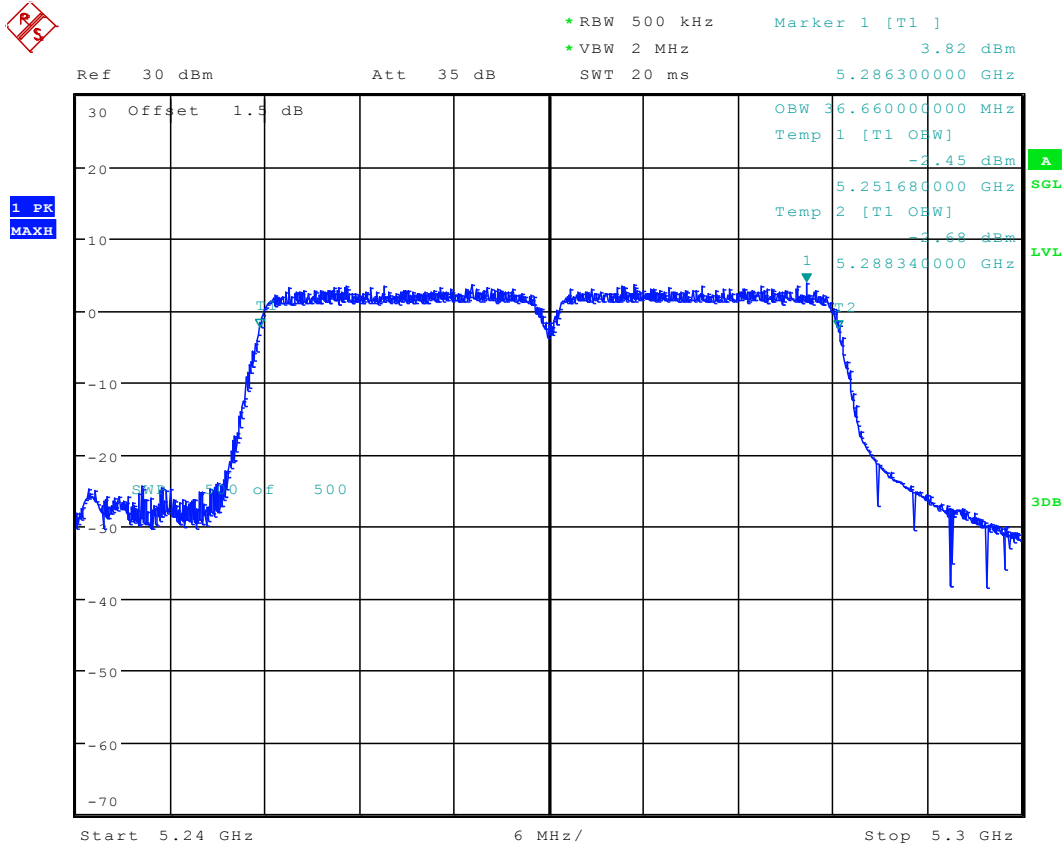
Date: 5.DEC.2016 14:49:56

## 5.18 11N40\_46 Ant 1



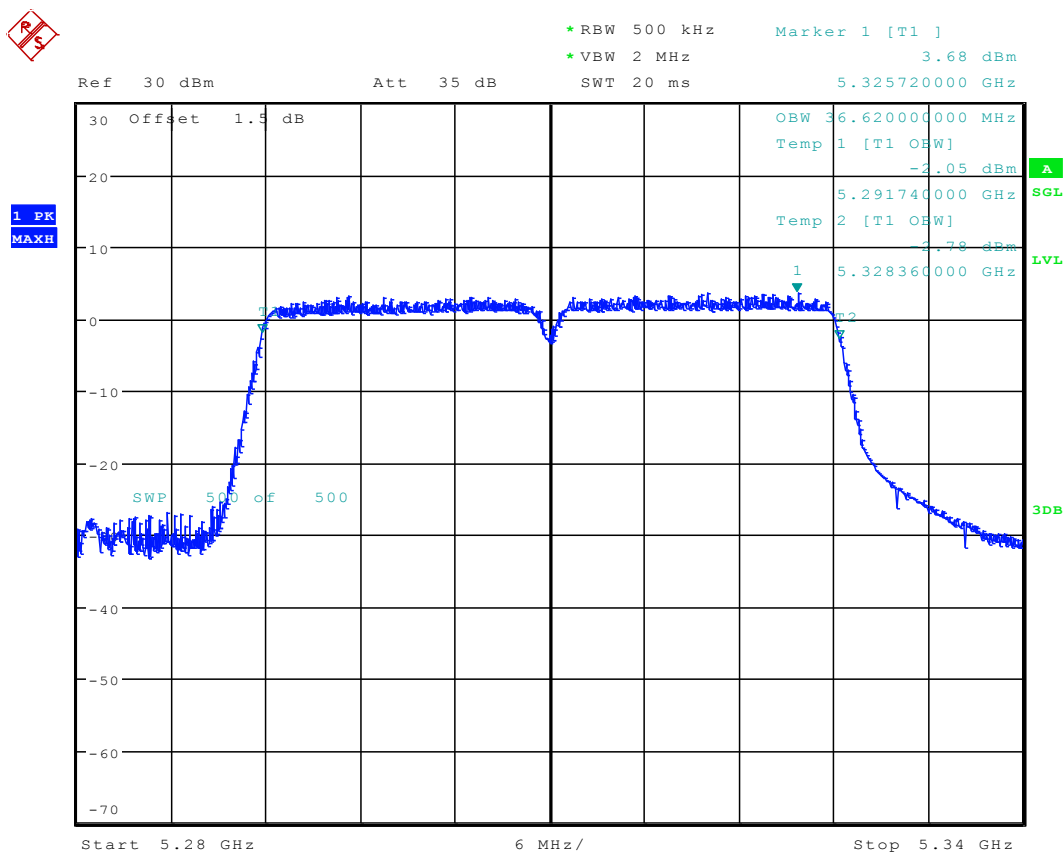
Date: 5.DEC.2016 14:55:20

### 5.19 11N40\_54 Ant 1



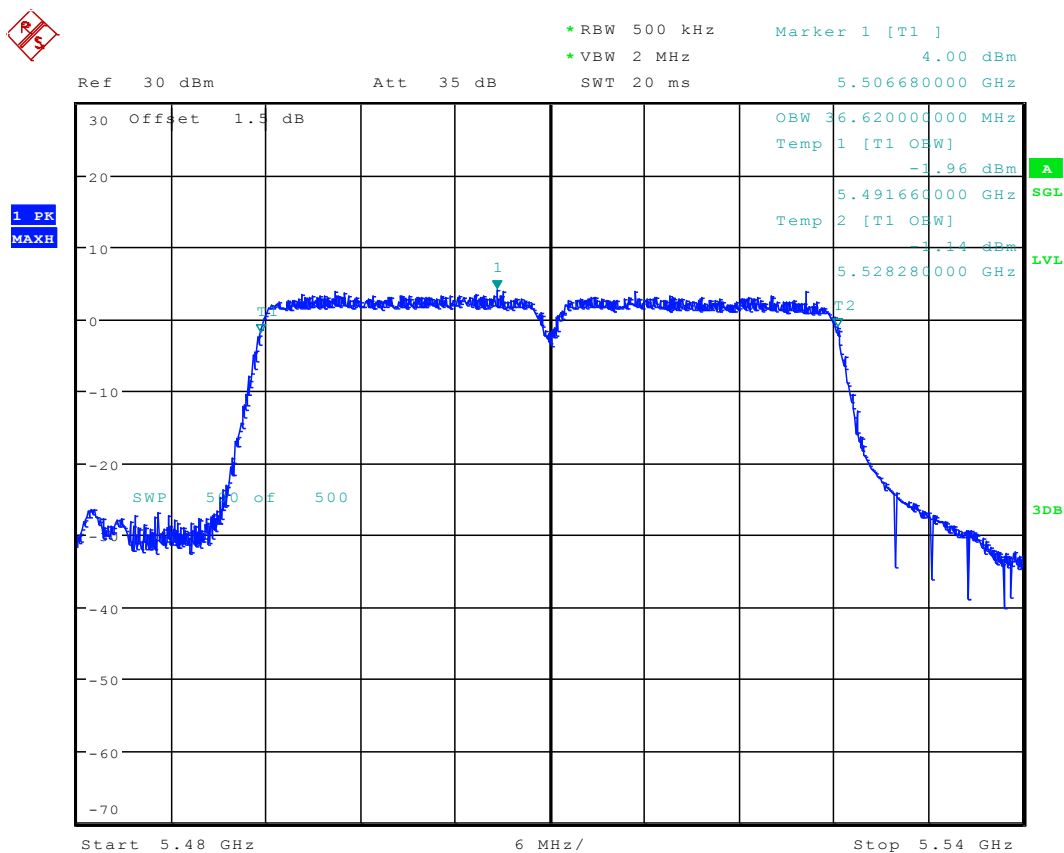
Date: 5.DEC.2016 15:00:26

## 5.20 11N40\_62 Ant 1



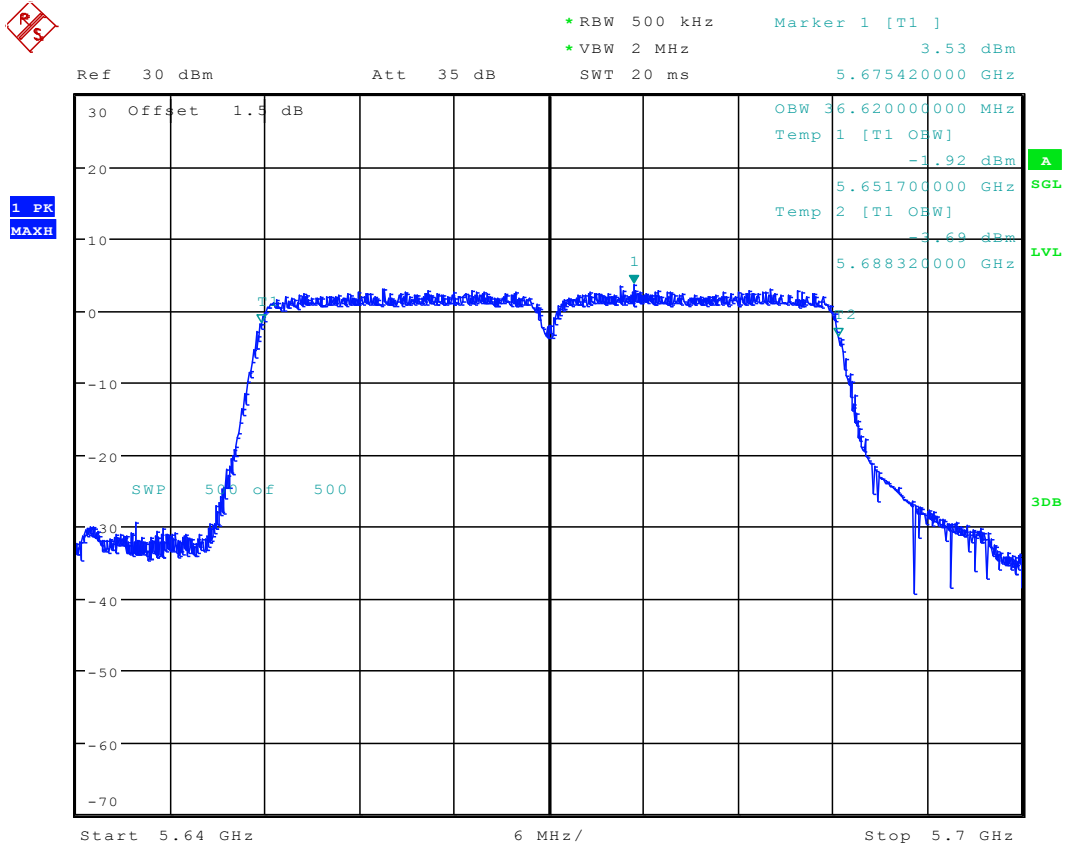
Date: 5.DEC.2016 15:05:10

## 5.21 11N40\_102 Ant 1



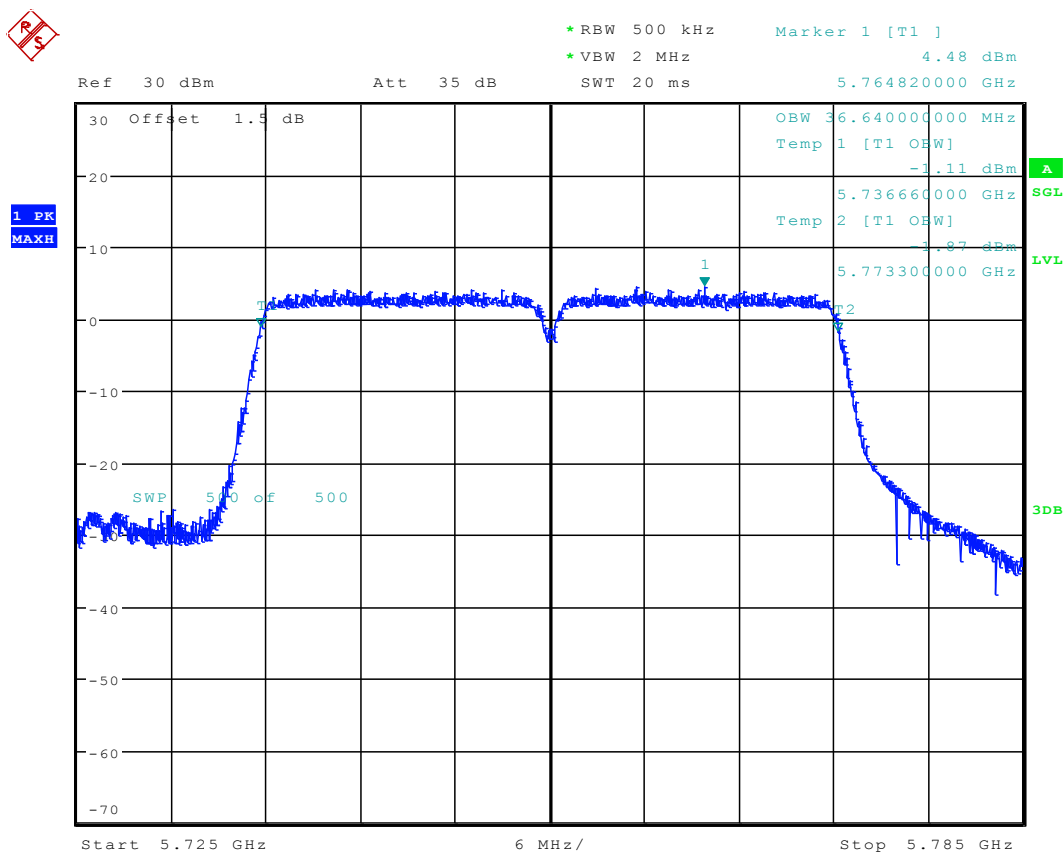
Date: 5.DEC.2016 15:10:19

## 5.22 11N40\_134 Ant 1



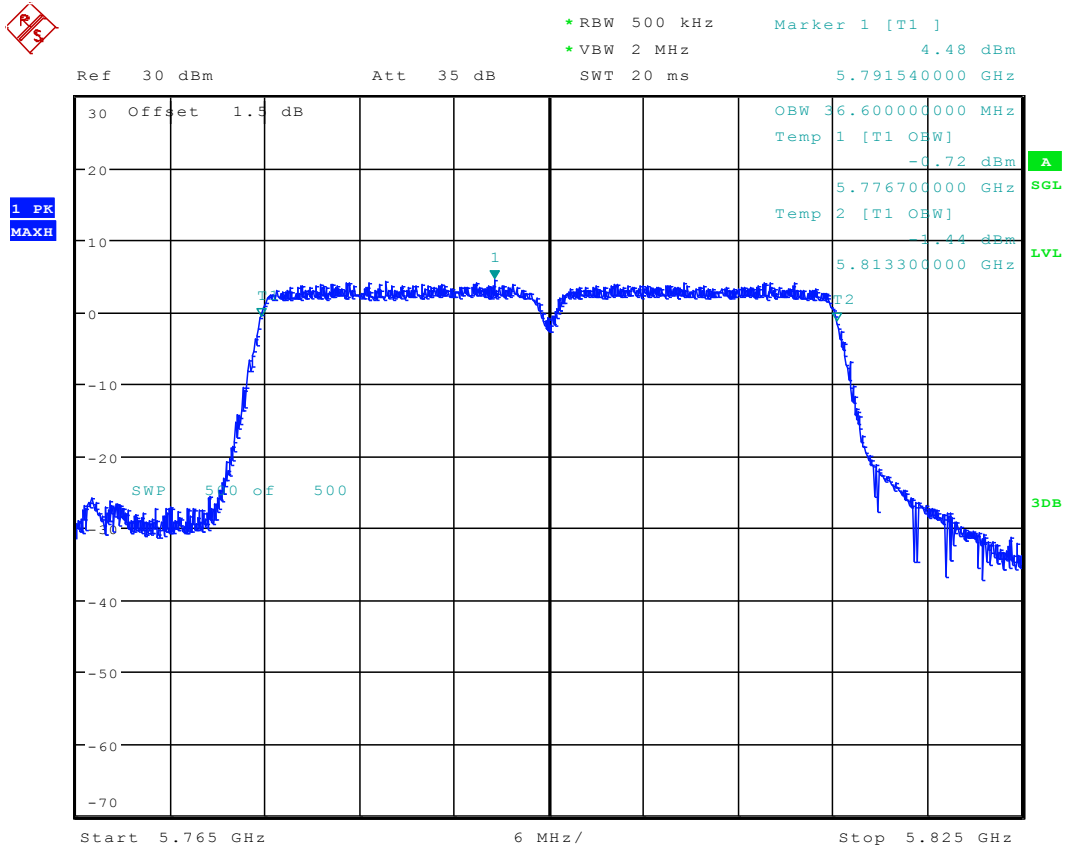
Date: 5.DEC.2016 15:13:33

### 5.23 11N40\_151 Ant 1



Date: 5.DEC.2016 15:17:52

### 5.24 11N40\_159 Ant 1

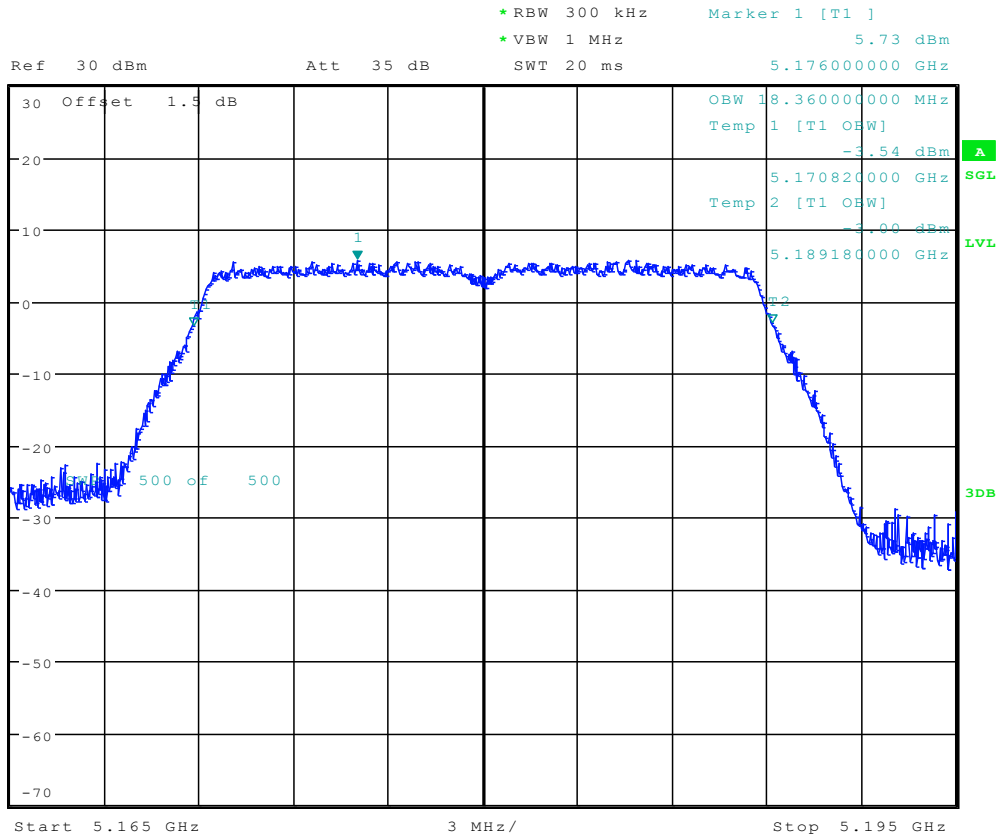


Date: 5.DEC.2016 15:29:13

## 5.25 11AC20\_36 Ant 1



1 PK  
MAXH

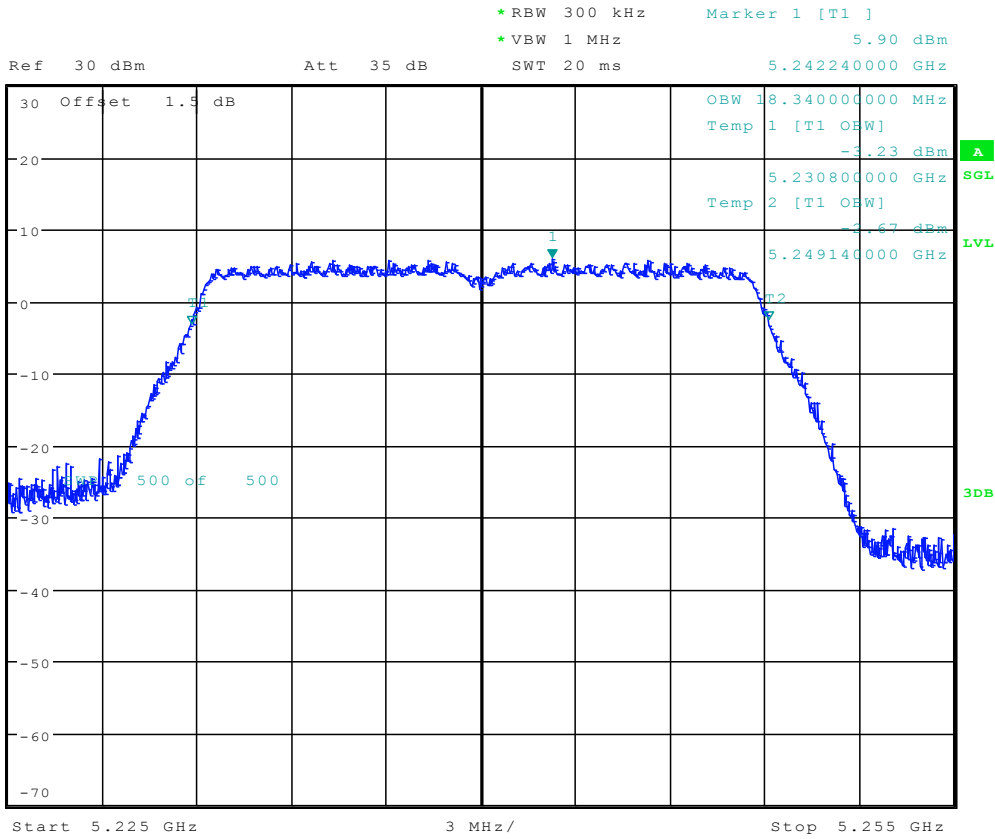


Date: 5.DEC.2016 15:33:56

## 5.26 11AC20\_48 Ant 1

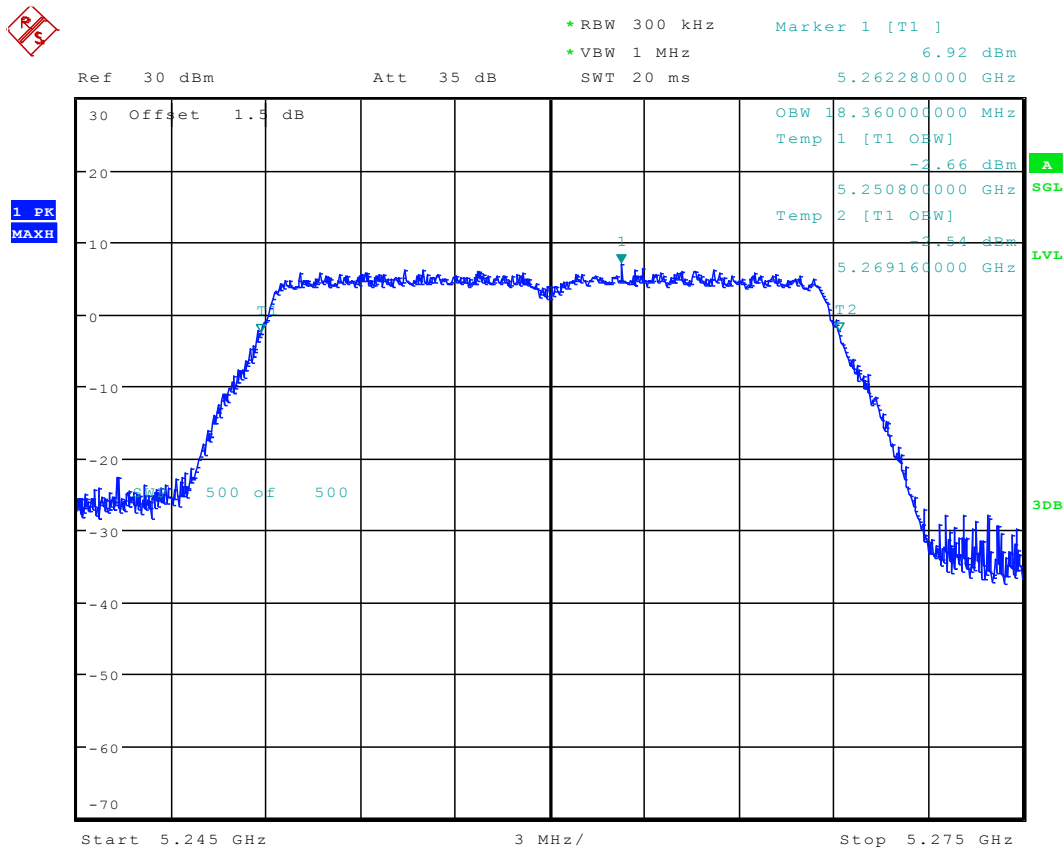


1 PK  
MAXH



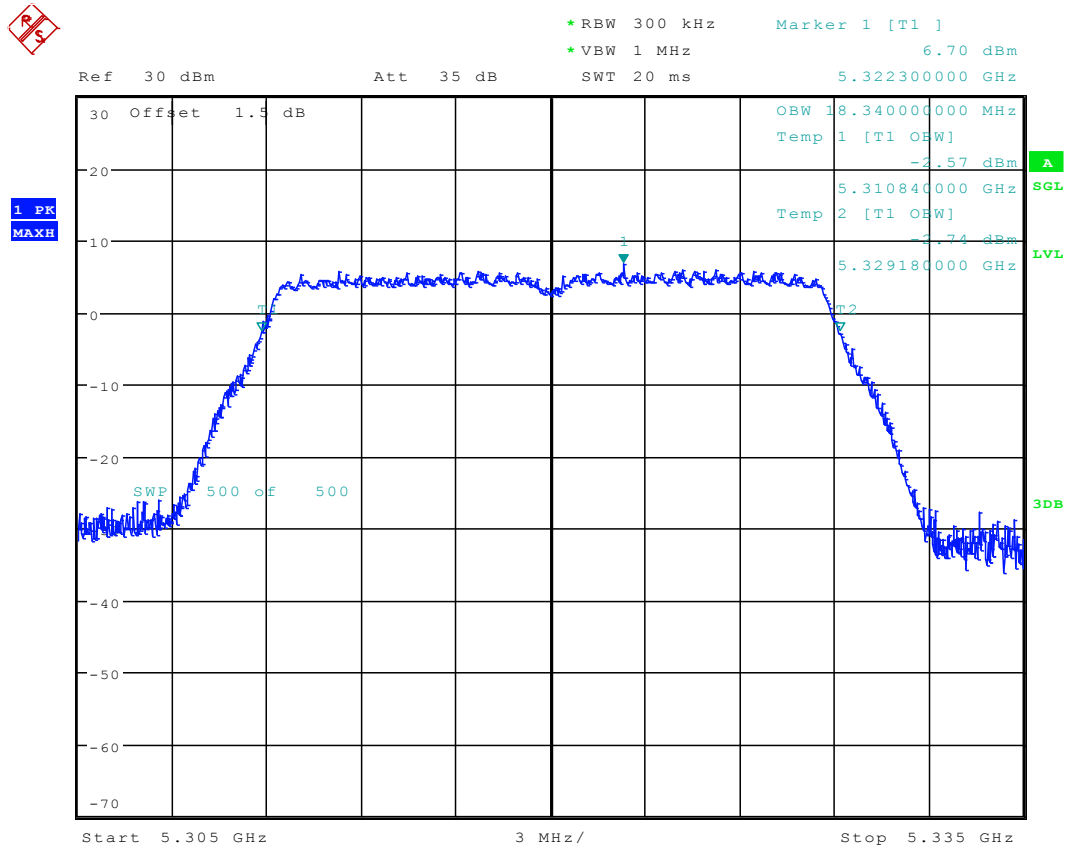
Date: 5.DEC.2016 15:48:56

## 5.27 11AC20\_52 Ant 1



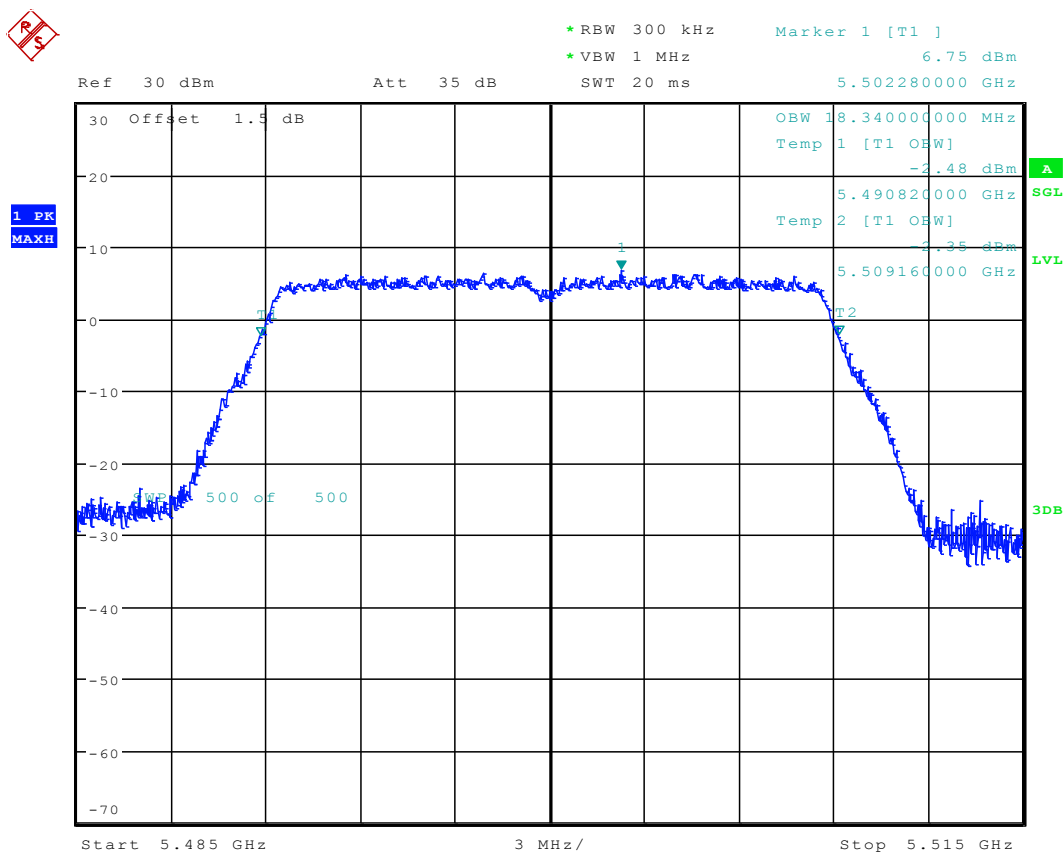
Date: 5.DEC.2016 15:54:05

## 5.28 11AC20\_64 Ant 1



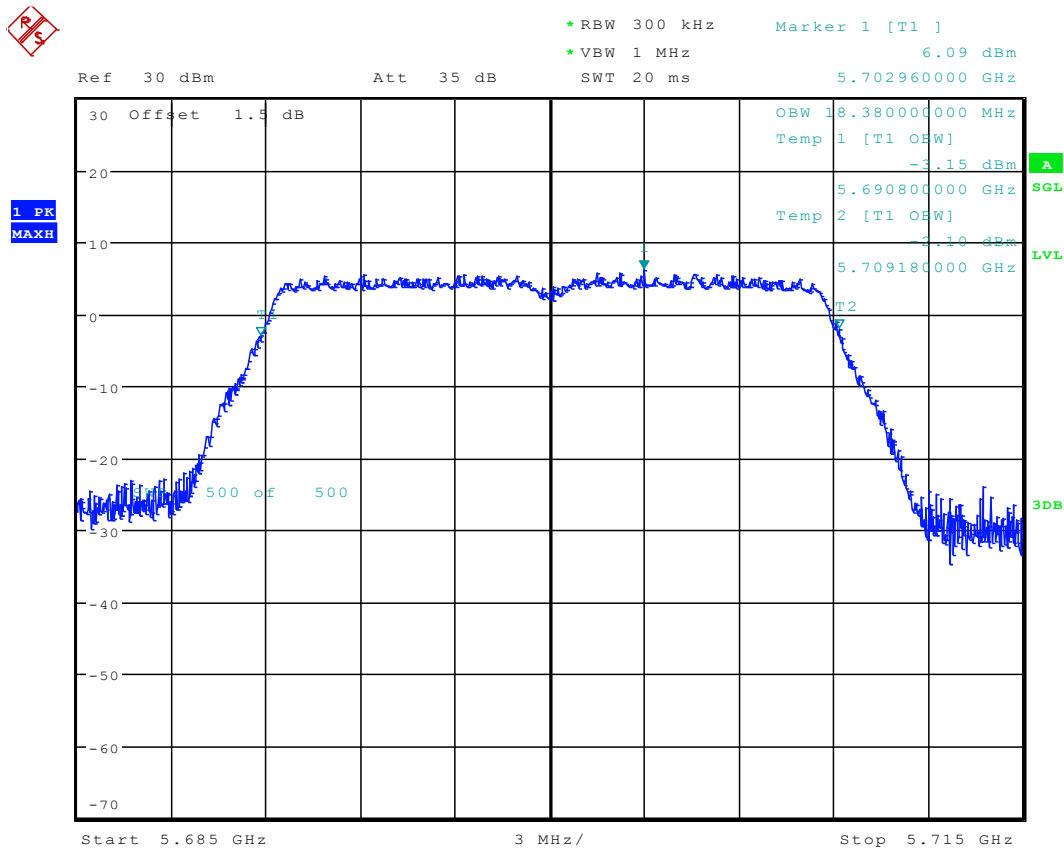
Date: 5.DEC.2016 15:59:39

## 5.29 11AC20\_100 Ant 1



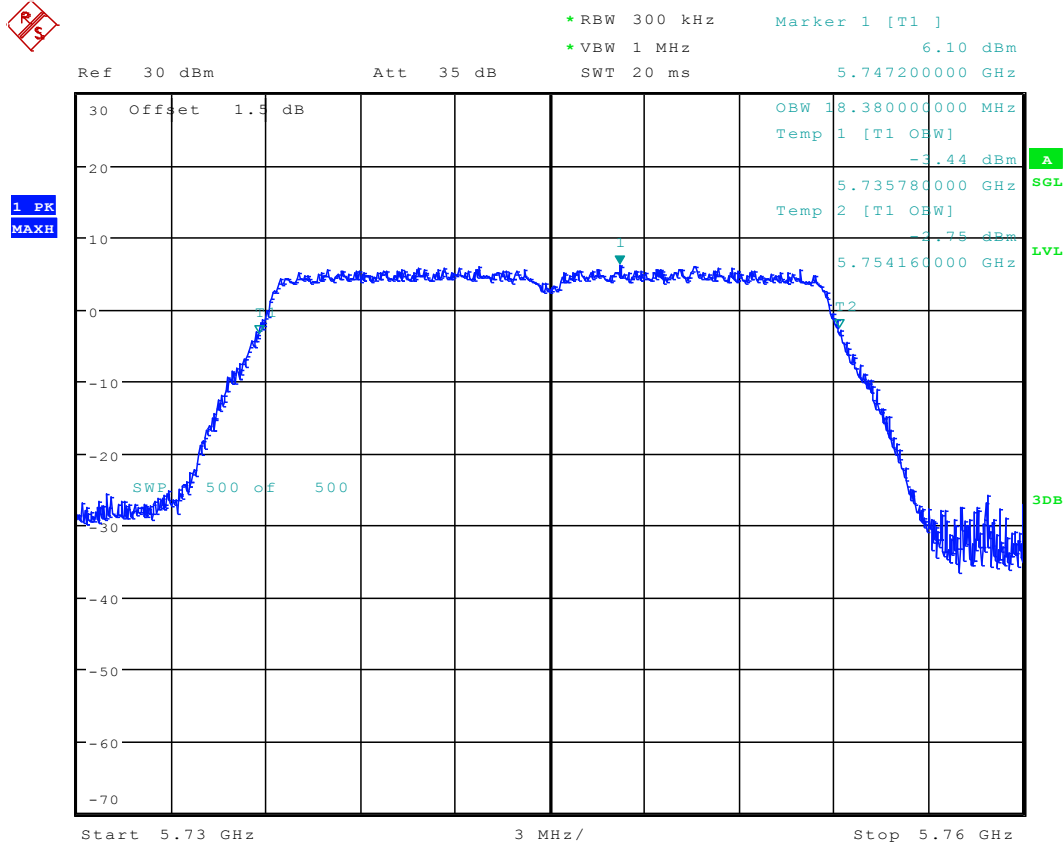
Date: 5.DEC.2016 16:05:43

### 5.30 11AC20\_140 Ant 1



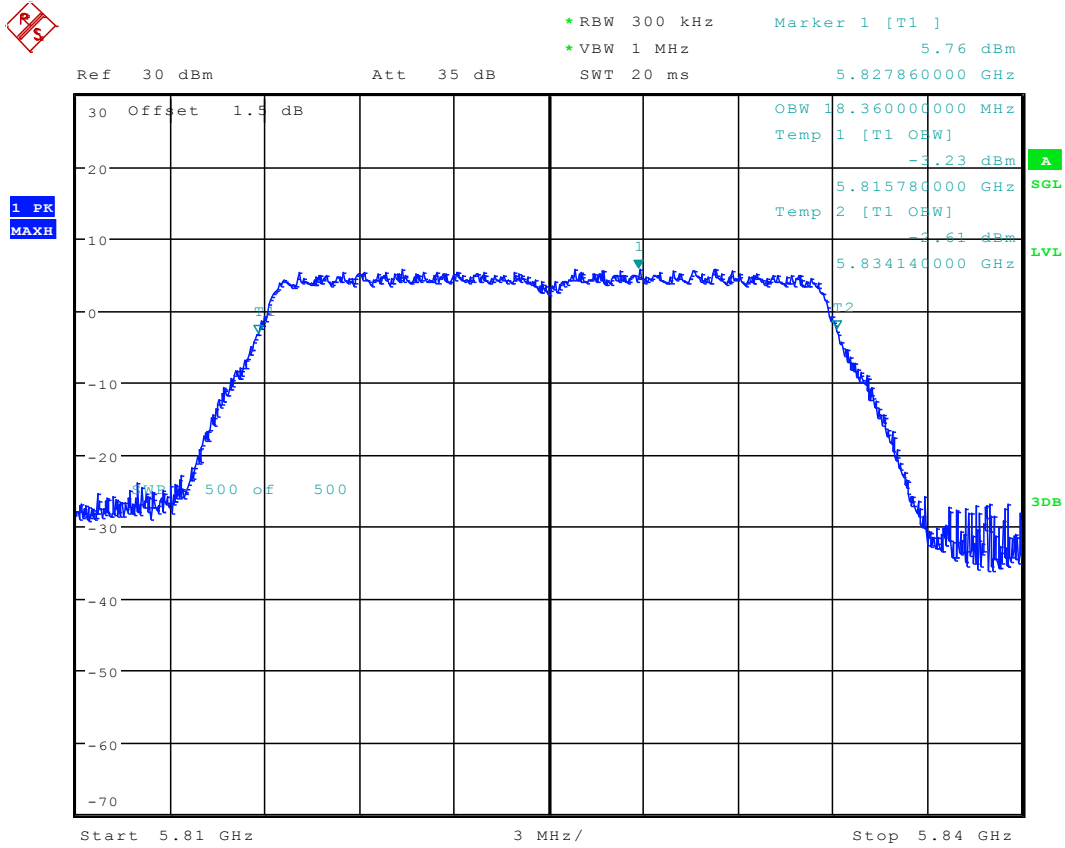
Date: 5.DEC.2016 16:12:40

### 5.31 11AC20\_149 Ant 1



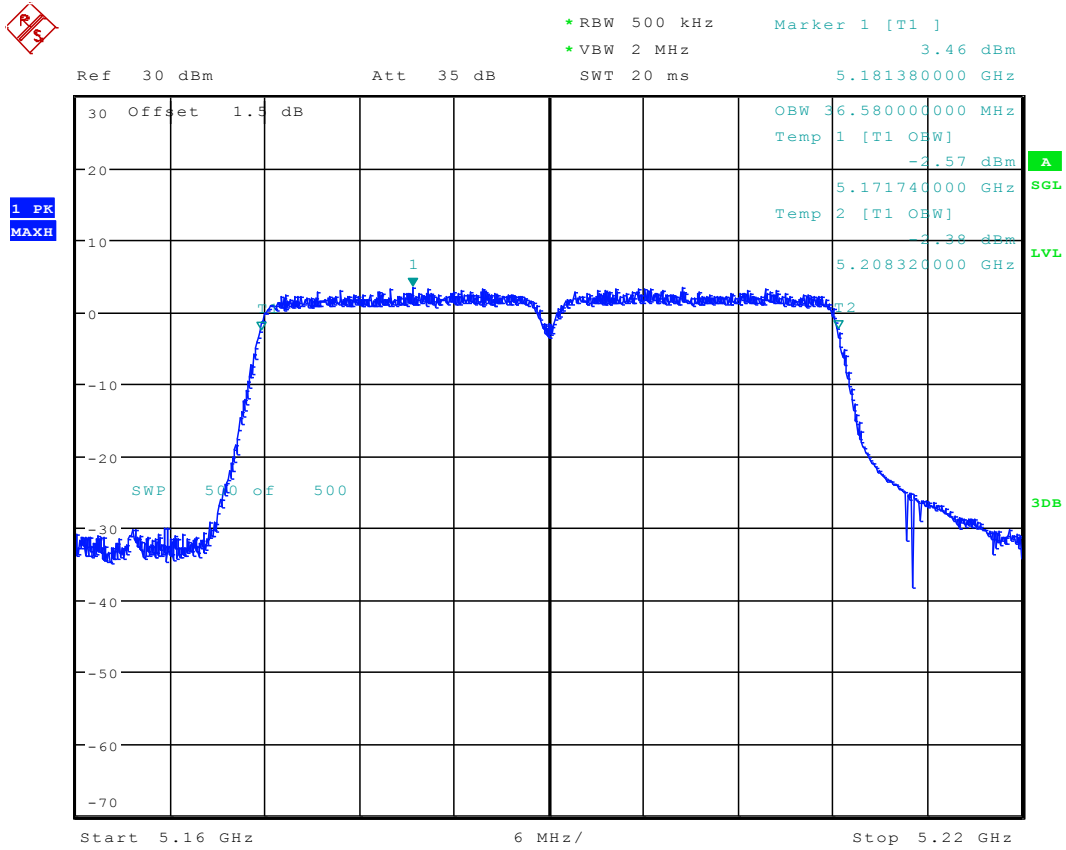
Date: 5.DEC.2016 16:20:57

## 5.32 11AC20\_165 Ant 1



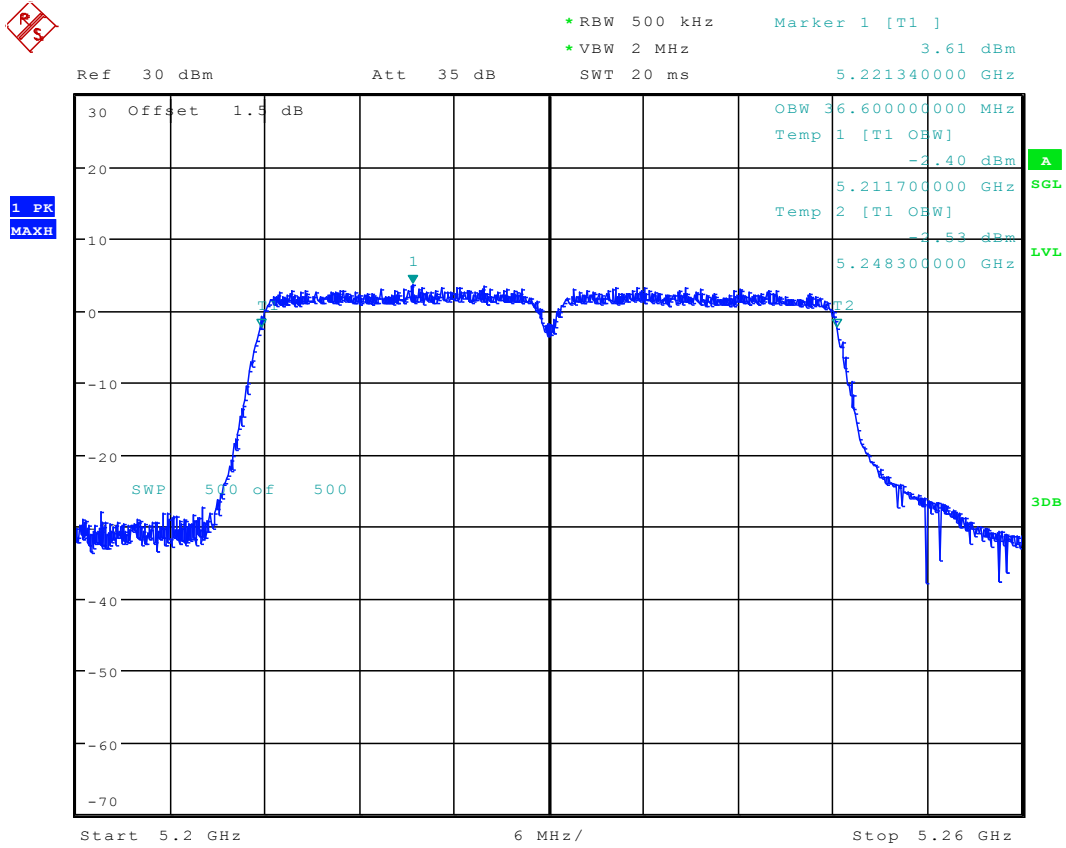
Date: 5.DEC.2016 16:46:07

### 5.33 11AC40\_38 Ant 1



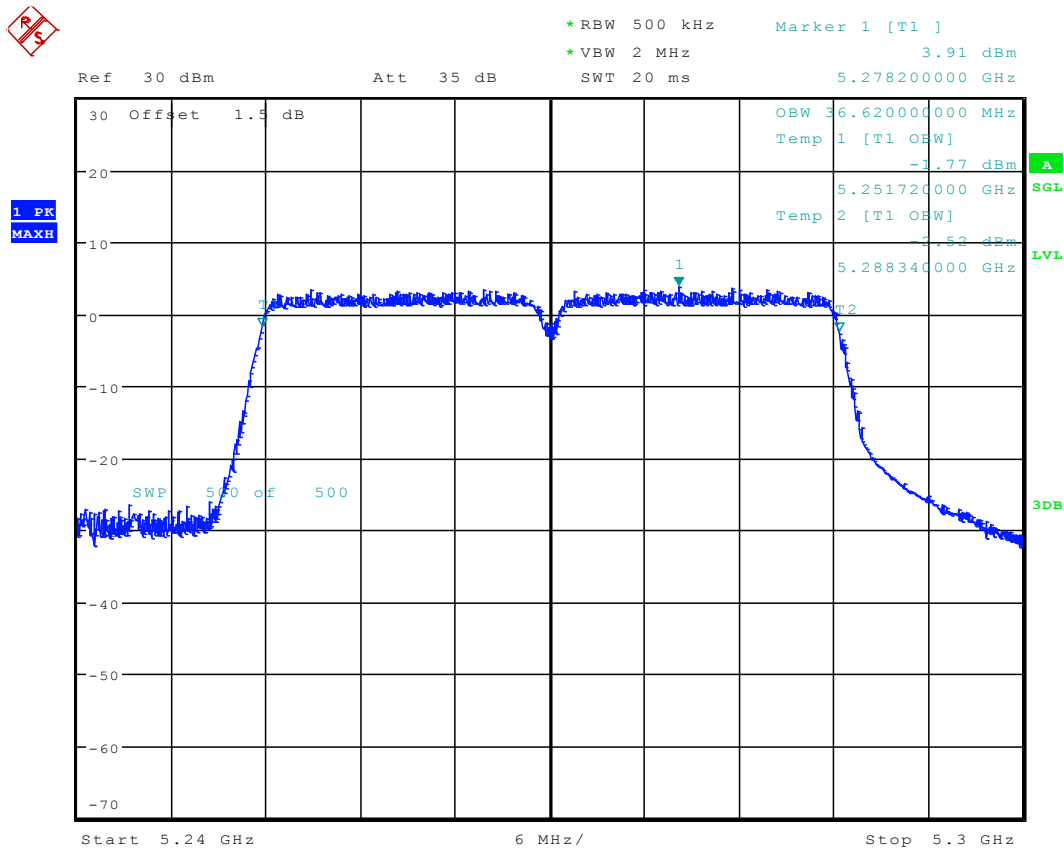
Date: 6.DEC.2016 10:35:21

### 5.34 11AC40\_46 Ant 1



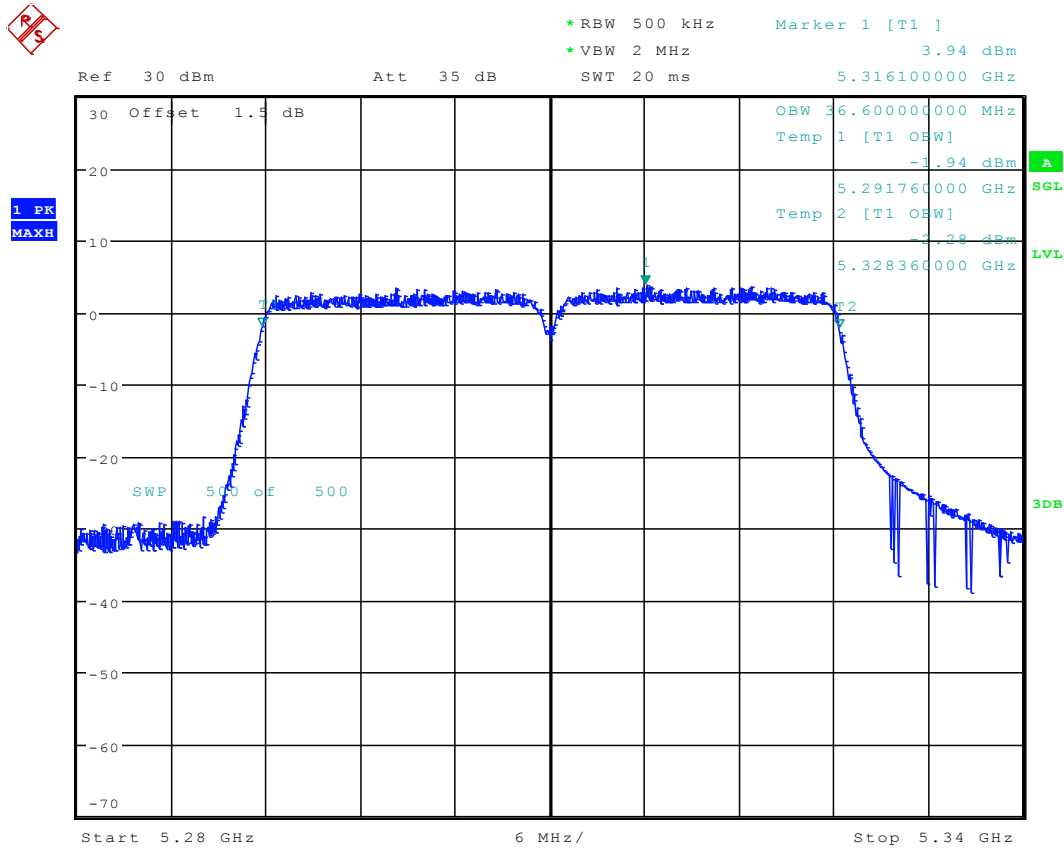
Date: 6.DEC.2016 10:26:17

### 5.35 11AC40\_54 Ant 1



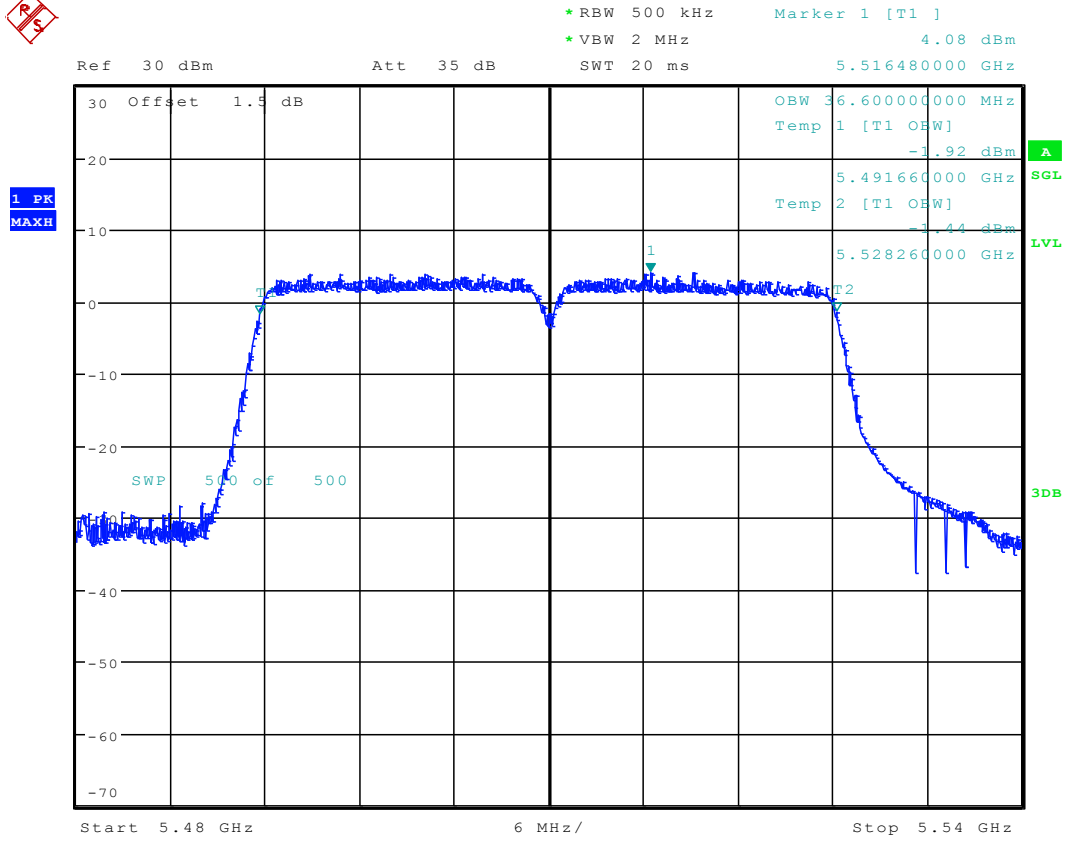
Date: 6.DEC.2016 10:33:16

### 5.36 11AC40\_62 Ant 1



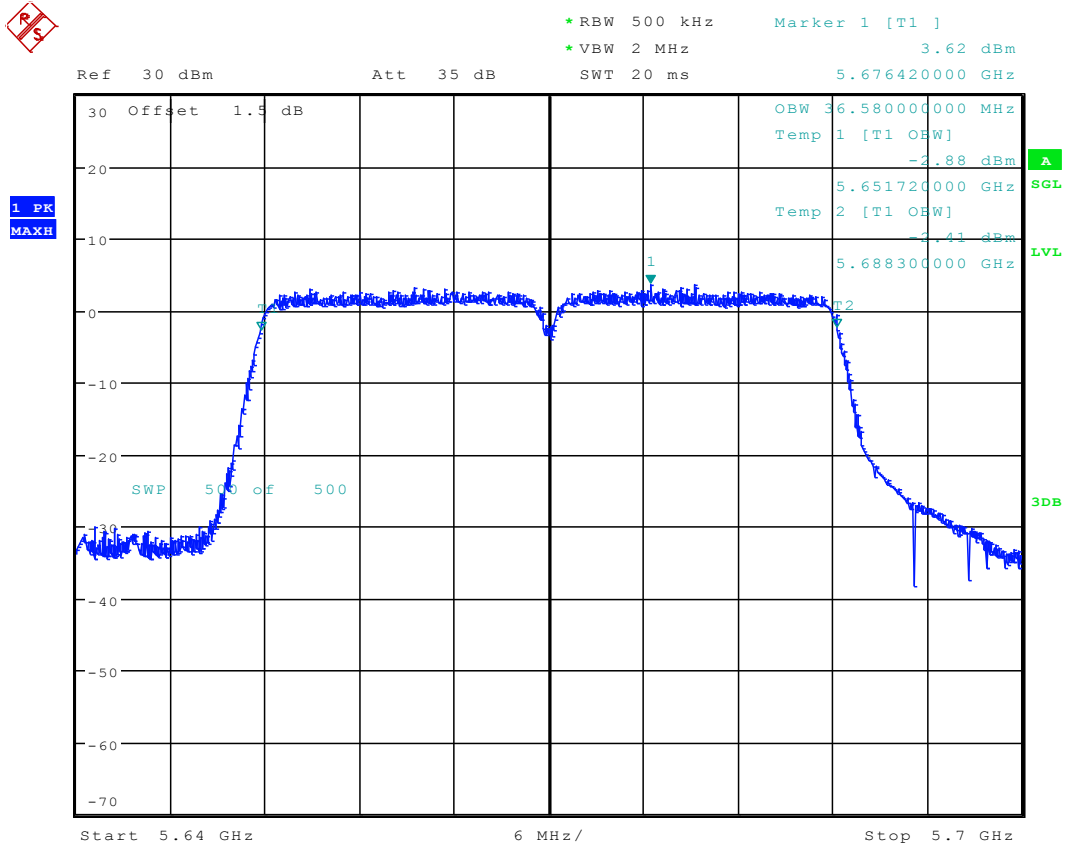
Date: 5.DEC.2016 17:18:03

### 5.37 11AC40\_102 Ant 1



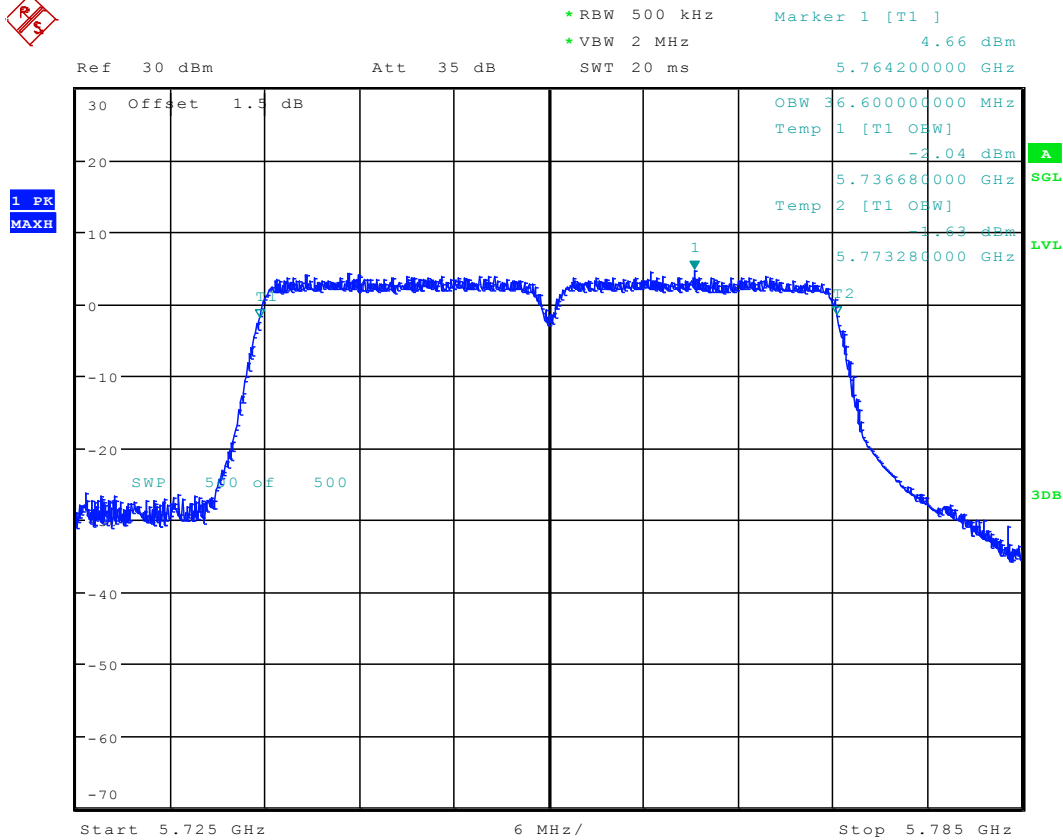
Date: 5.DEC.2016 17:24:12

### 5.38 11AC40\_134 Ant 1



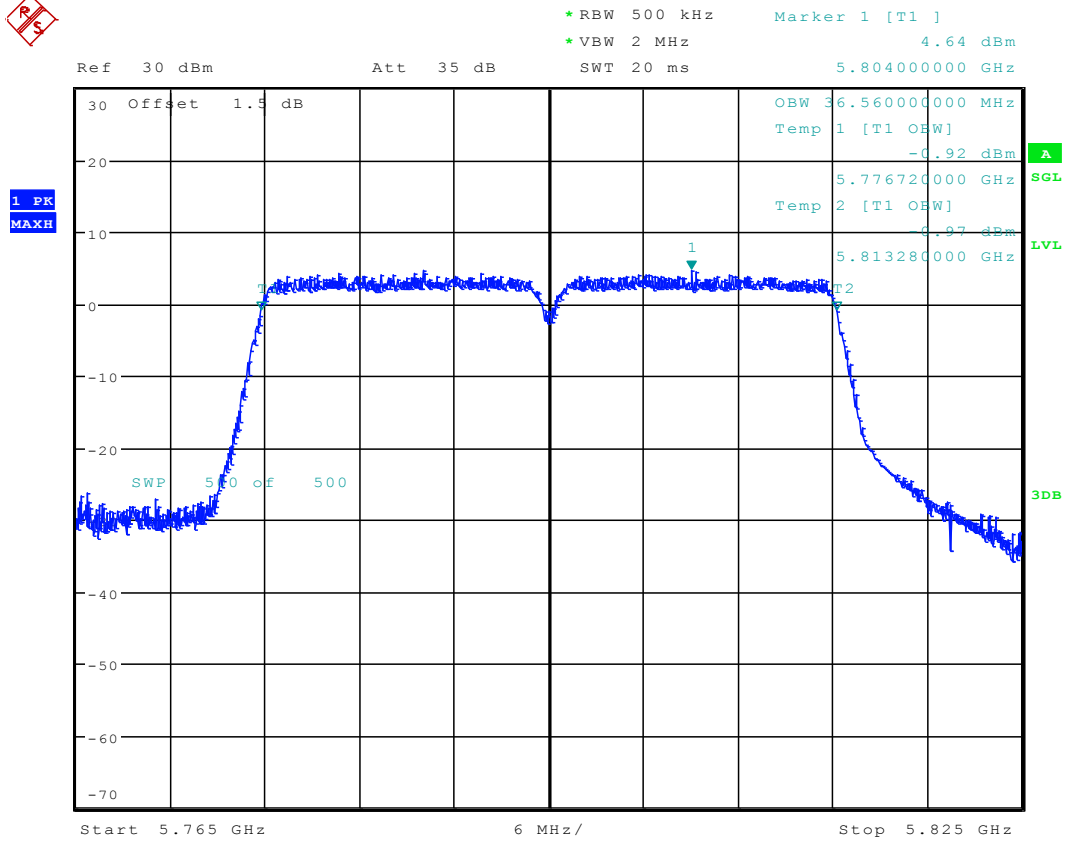
Date: 5.DEC.2016 17:27:52

### 5.39 11AC40\_151 Ant 1



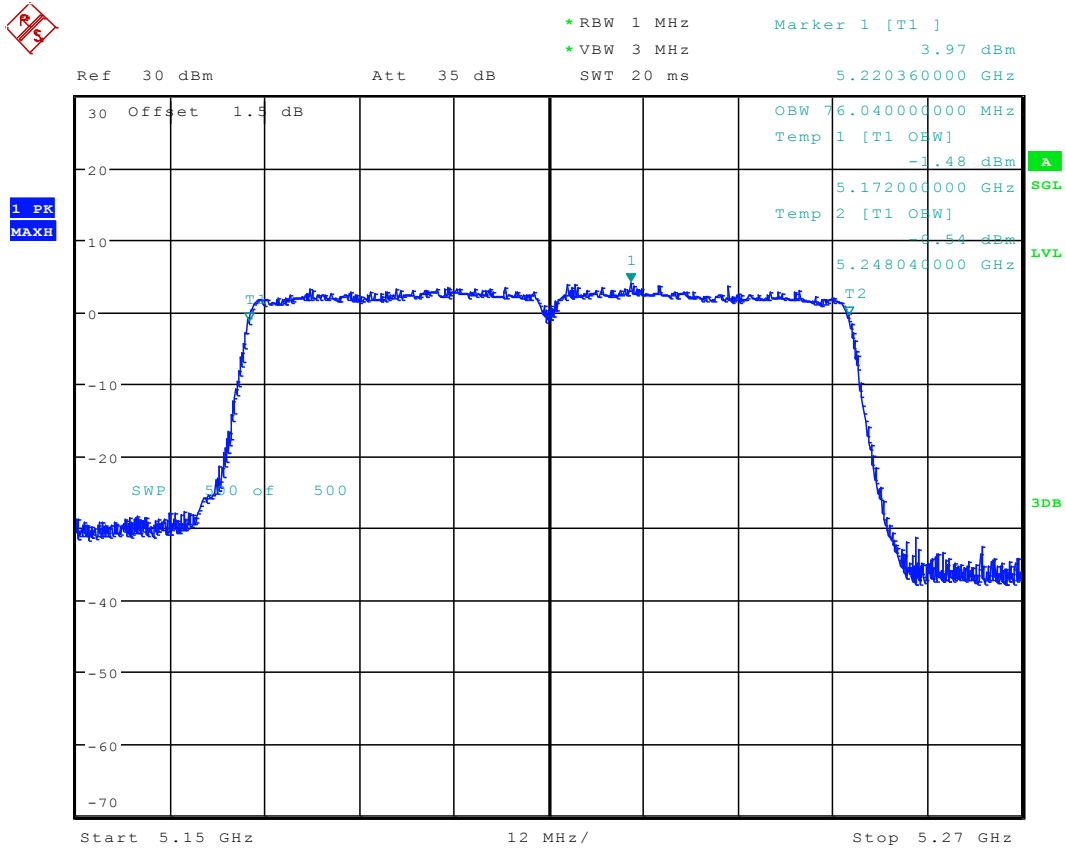
Date: 5.DEC.2016 17:31:31

### 5.40 11AC40\_159 Ant 1



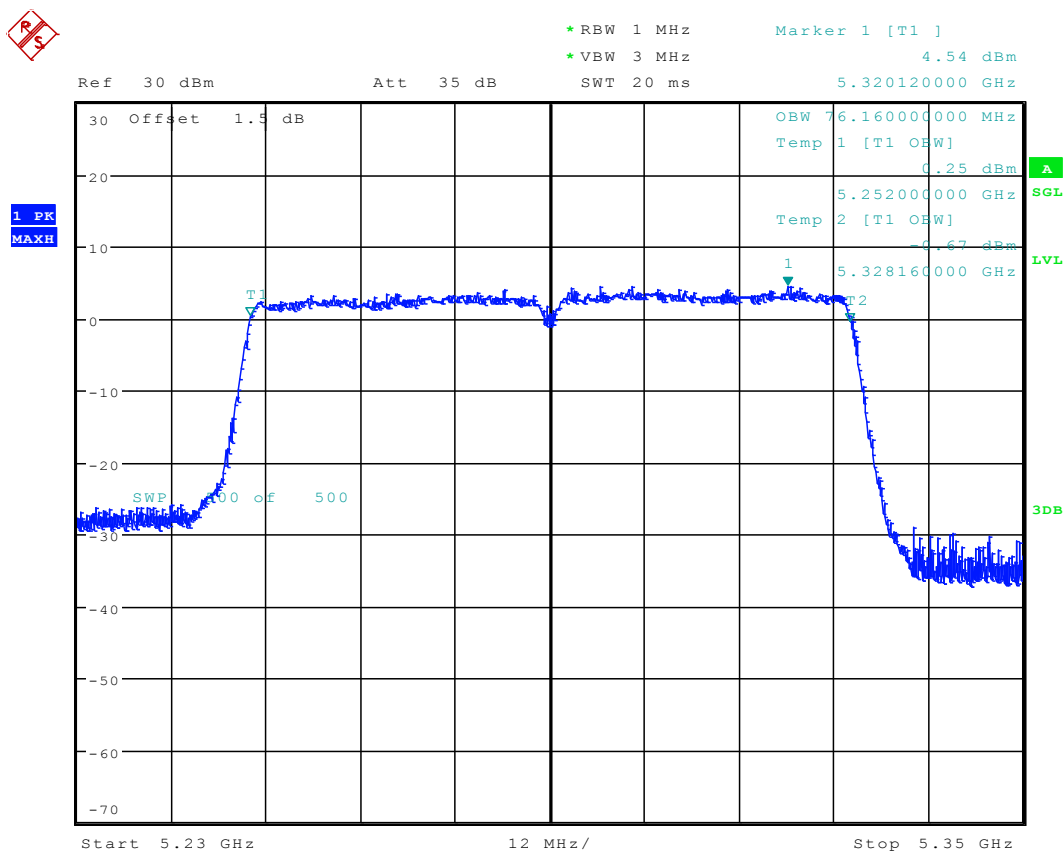
Date: 5.DEC.2016 17:38:22

### 5.41 11AC80\_42 Ant 1



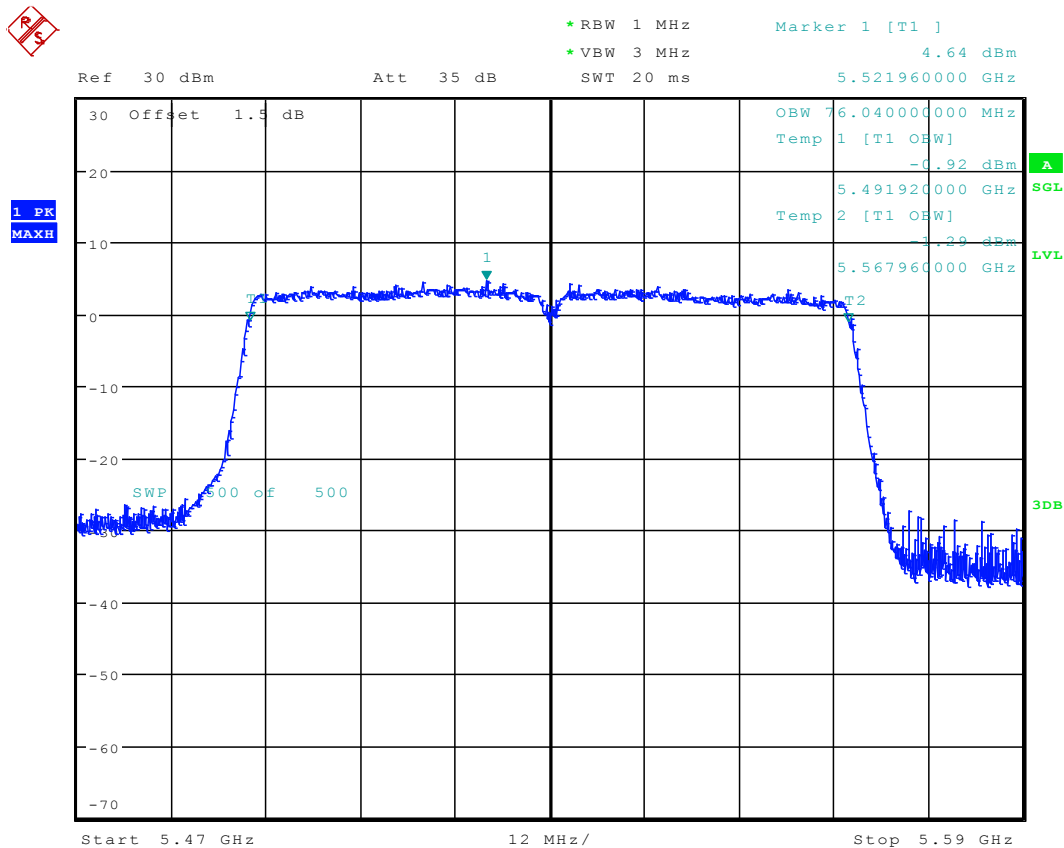
Date: 5.DEC.2016 17:51:52

## 5.42 11AC80\_58 Ant 1



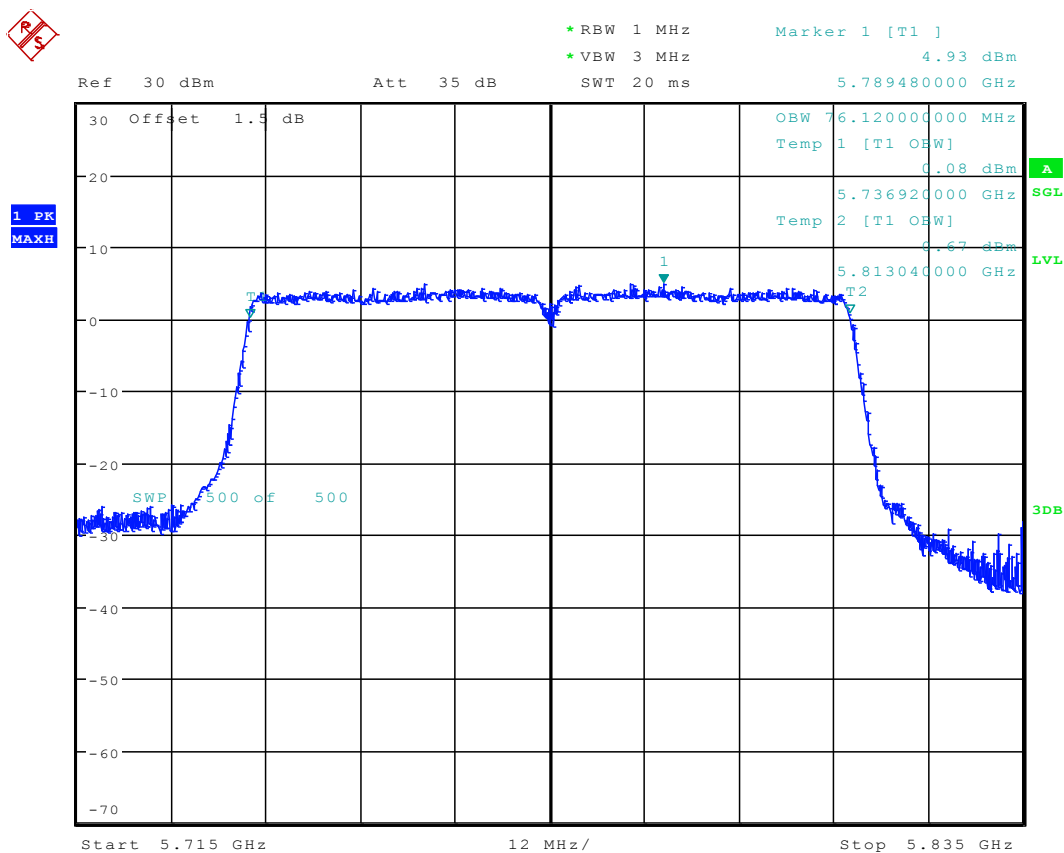
Date: 5.DEC.2016 17:59:42

### 5.43 11AC80\_106 Ant 1



Date: 5.DEC.2016 18:07:18

## 5.44 11AC80\_155 Ant 1



Date: 5.DEC.2016 18:12:46

## Appendix C: Duty Cycle

## 6 Part I - Test Results

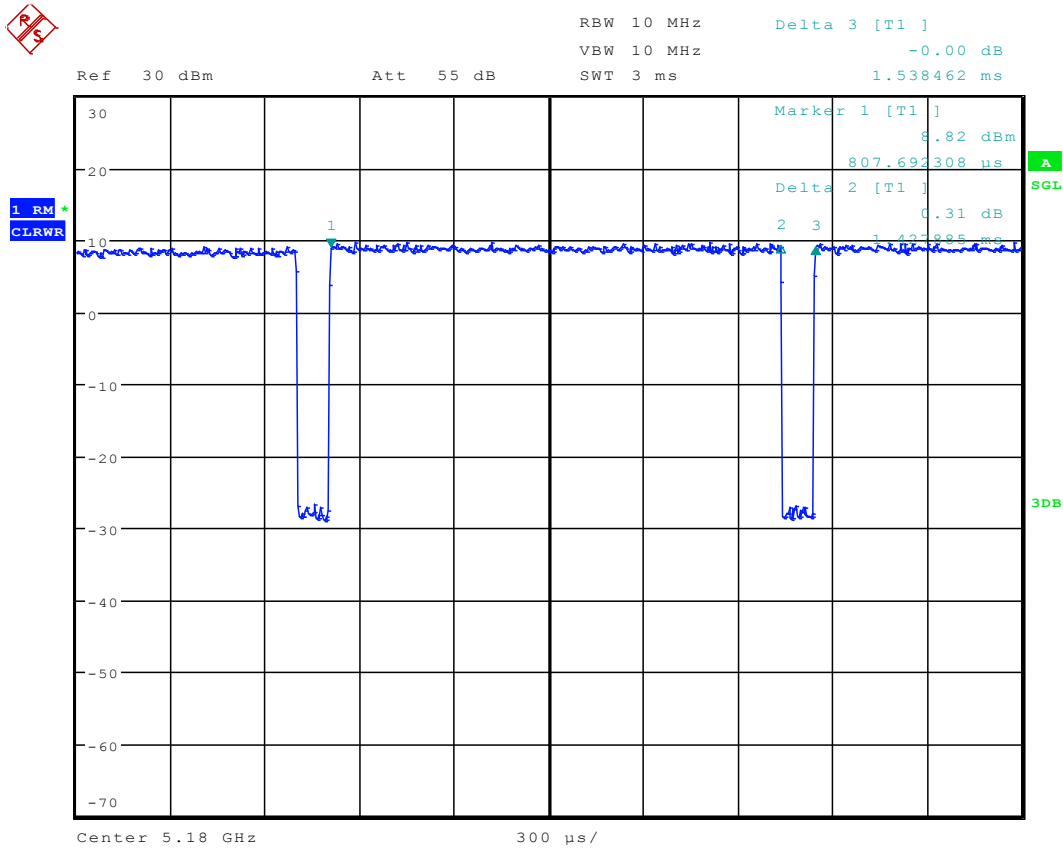
| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Duty cycle [%] |
|-----------|--------------|-----------------|--------------|----------------|
| 11A       | 36,          | 5180            | Ant 1        | 92.8           |
| 11A       | 48           | 5240            | Ant 1        | 92.8           |
| 11A       | 52           | 5260            | Ant 1        | 92.8           |
| 11A       | 64           | 5320            | Ant 1        | 92.8           |
| 11A       | 100          | 5500            | Ant 1        | 92.8           |
| 11A       | 140          | 5700            | Ant 1        | 92.8           |
| 11A       | 149          | 5745            | Ant 1        | 92.8           |
| 11A       | 165          | 5825            | Ant 1        | 92.8           |
| 11N20     | 36           | 5180            | Ant 1        | 92.4           |
| 11N20     | 48           | 5240            | Ant 1        | 92.4           |
| 11N20     | 52           | 5260            | Ant 1        | 92.4           |
| 11N20     | 64           | 5320            | Ant 1        | 92.4           |
| 11N20     | 100          | 5500            | Ant 1        | 92.4           |
| 11N20     | 140          | 5700            | Ant 1        | 92.4           |
| 11N20     | 149          | 5745            | Ant 1        | 92.4           |
| 11N20     | 165          | 5825            | Ant 1        | 92.4           |
| 11N40     | 38           | 5190            | Ant 1        | 86.2           |
| 11N40     | 46           | 5230            | Ant 1        | 86.2           |
| 11N40     | 54           | 5270            | Ant 1        | 86.2           |
| 11N40     | 62           | 5310            | Ant 1        | 86.2           |
| 11N40     | 102          | 5510            | Ant 1        | 86.2           |
| 11N40     | 134          | 5670            | Ant 1        | 86.2           |
| 11N40     | 151          | 5755            | Ant 1        | 86.2           |
| 11N40     | 159          | 5795            | Ant 1        | 86.2           |
| 11AC20    | 36           | 5180            | Ant 1        | 92.4           |
| 11AC20    | 48           | 5240            | Ant 1        | 92.4           |
| 11AC20    | 52           | 5260            | Ant 1        | 92.4           |
| 11AC20    | 64           | 5320            | Ant 1        | 92.4           |
| 11AC20    | 100          | 5500            | Ant 1        | 92.4           |
| 11AC20    | 140          | 5700            | Ant 1        | 92.4           |
| 11AC20    | 149          | 5745            | Ant 1        | 92.4           |
| 11AC20    | 165          | 5825            | Ant 1        | 92.4           |
| 11AC40    | 38           | 5190            | Ant 1        | 86             |

|        |     |      |       |      |
|--------|-----|------|-------|------|
| 11AC40 | 46  | 5230 | Ant 1 | 86   |
| 11AC40 | 54  | 5270 | Ant 1 | 86   |
| 11AC40 | 62  | 5310 | Ant 1 | 86   |
| 11AC40 | 102 | 5510 | Ant 1 | 86   |
| 11AC40 | 134 | 5670 | Ant 1 | 86   |
| 11AC40 | 151 | 5755 | Ant 1 | 86   |
| 11AC40 | 159 | 5795 | Ant 1 | 86   |
| 11AC80 | 42  | 5210 | Ant 1 | 86.3 |
| 11AC80 | 58  | 5290 | Ant 1 | 86.3 |
| 11AC80 | 106 | 5530 | Ant 1 | 86.3 |
| 11AC80 | 155 | 5775 | Ant 1 | 86.3 |



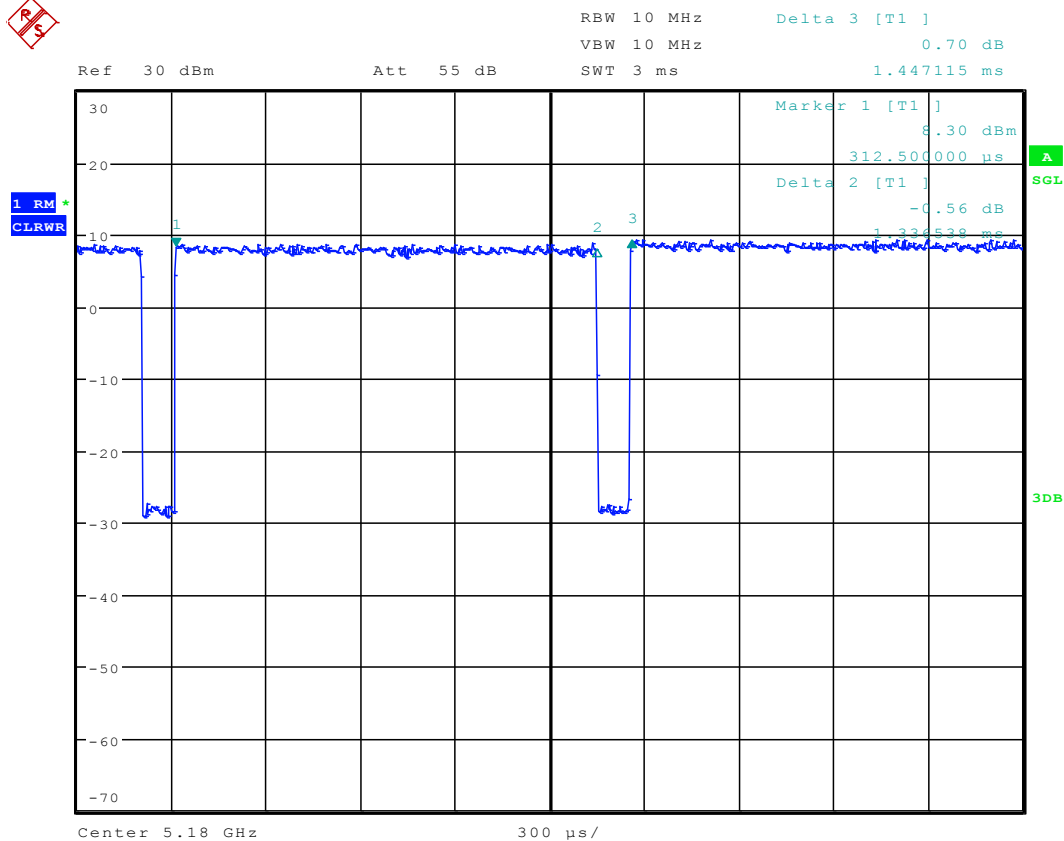
## 7 Test Plot

### 7.1 11A



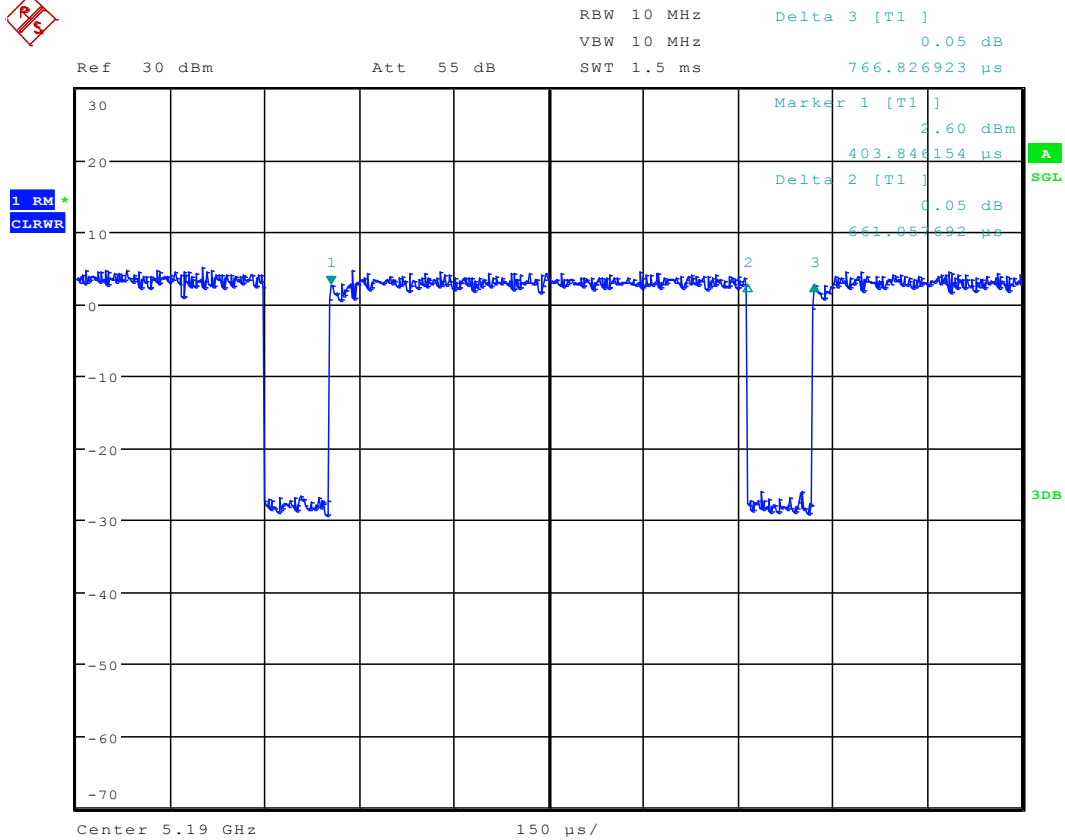
Date: 5.DEC.2016 11:01:42

## 7.2 11n20



Date: 5.DEC.2016 11:05:15

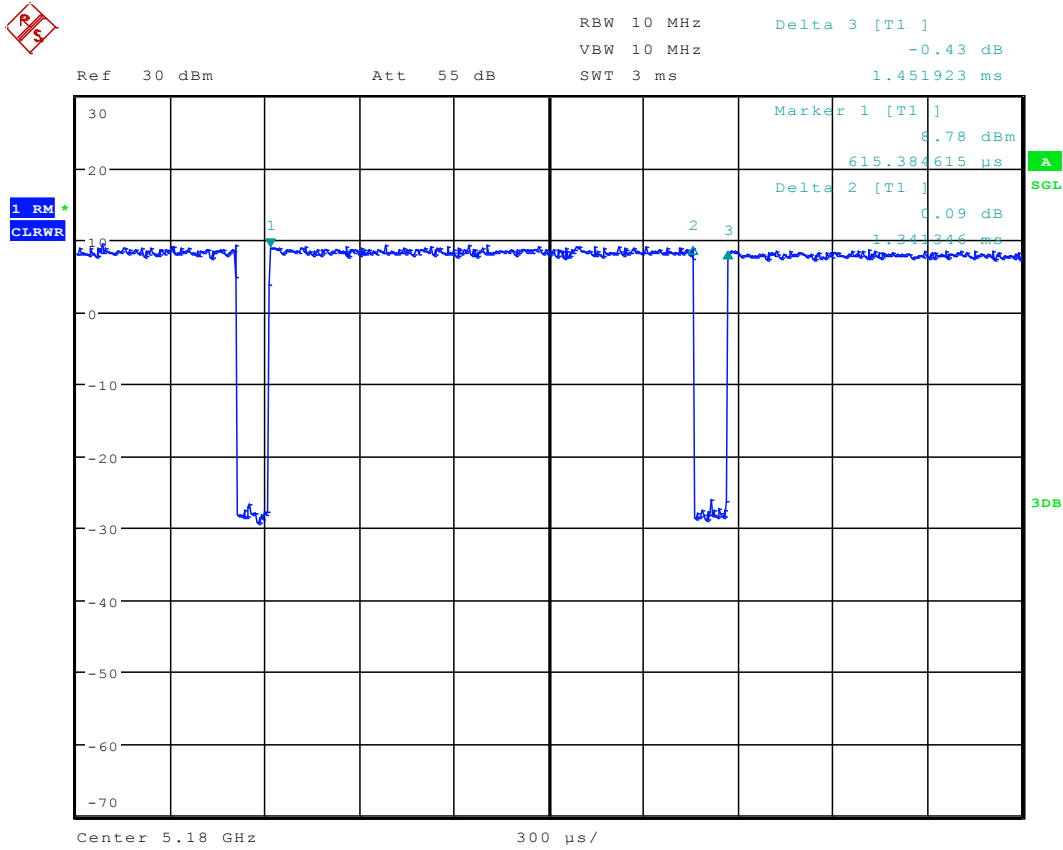
## 7.3 11n40



Date: 5.DEC.2016 11:25:16

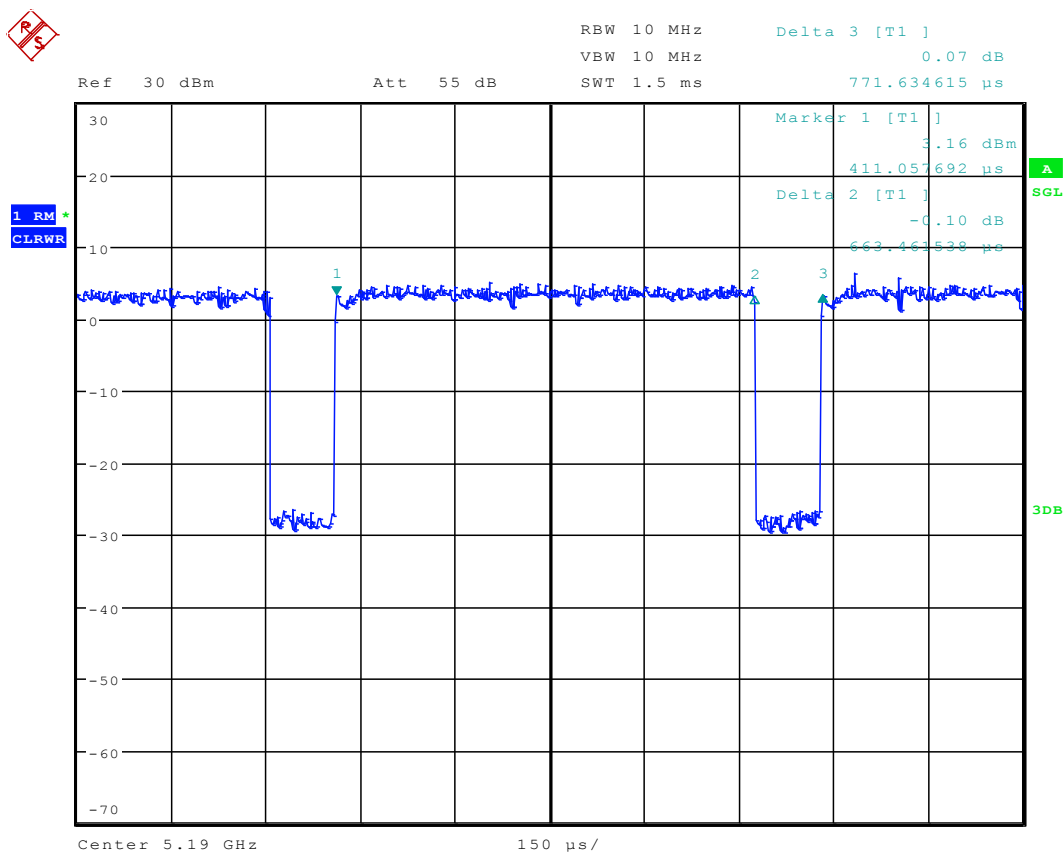


### 7.4 11ac20



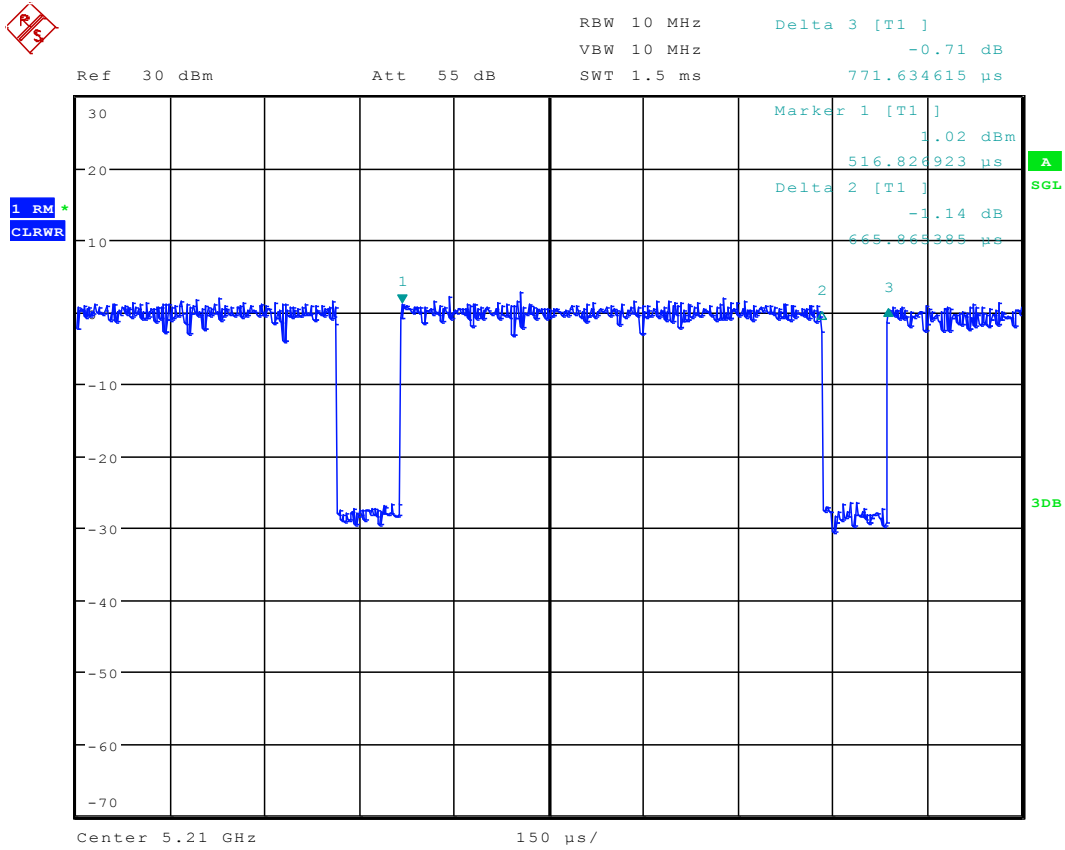
Date: 5.DEC.2016 11:11:40

## 7.5 11ac40



Date: 5.DEC.2016 11:22:22

## 7.6 11ac80



Date: 5.DEC.2016 11:19:31

## 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        | 12.29                     | pass    |
|           | 48           | 5240            | Ant 1        | 11.99                     | pass    |
|           | 52           | 5260            | Ant 1        | 12.70                     | pass    |
|           | 64           | 5320            | Ant 1        | 12.57                     | pass    |
|           | 100          | 5500            | Ant 1        | 12.71                     | pass    |
|           | 140          | 5700            | Ant 1        | 12.37                     | pass    |
|           | 149          | 5745            | Ant 1        | 12.39                     | pass    |
|           | 165          | 5825            | Ant 1        | 12.36                     | pass    |
| 11N20     | 36           | 5180            | Ant 1        | 12.42                     | pass    |
|           | 48           | 5240            | Ant 1        | 12.00                     | pass    |
|           | 52           | 5260            | Ant 1        | 12.77                     | pass    |
|           | 64           | 5320            | Ant 1        | 12.55                     | pass    |
|           | 100          | 5500            | Ant 1        | 12.76                     | pass    |
|           | 140          | 5700            | Ant 1        | 12.21                     | pass    |
|           | 149          | 5745            | Ant 1        | 12.54                     | pass    |
|           | 165          | 5825            | Ant 1        | 12.40                     | pass    |
| 11N40     | 38           | 5190            | Ant 1        | 9.86                      | pass    |
|           | 46           | 5230            | Ant 1        | 9.79                      | pass    |
|           | 54           | 5270            | Ant 1        | 9.94                      | pass    |
|           | 62           | 5310            | Ant 1        | 9.90                      | pass    |
|           | 102          | 5510            | Ant 1        | 10.43                     | pass    |
|           | 134          | 5670            | Ant 1        | 9.91                      | pass    |
|           | 151          | 5755            | Ant 1        | 10.83                     | pass    |
|           | 159          | 5795            | Ant 1        | 10.77                     | pass    |
| 11AC20    | 36           | 5180            | Ant 1        | 12.34                     | pass    |
|           | 48           | 5240            | Ant 1        | 12.36                     | pass    |
|           | 52           | 5260            | Ant 1        | 12.80                     | pass    |
|           | 64           | 5320            | Ant 1        | 12.56                     | pass    |
|           | 100          | 5500            | Ant 1        | 12.66                     | pass    |
|           | 140          | 5700            | Ant 1        | 12.33                     | pass    |
|           | 149          | 5745            | Ant 1        | 12.40                     | pass    |
|           | 165          | 5825            | Ant 1        | 12.29                     | pass    |
| 11AC40    | 38           | 5190            | Ant 1        | 9.93                      | pass    |
|           | 46           | 5230            | Ant 1        | 9.90                      | pass    |

|        |     |      |       |       |      |
|--------|-----|------|-------|-------|------|
|        | 54  | 5270 | Ant 1 | 10.02 | pass |
|        | 62  | 5310 | Ant 1 | 10.00 | pass |
|        | 102 | 5510 | Ant 1 | 10.40 | pass |
|        | 134 | 5670 | Ant 1 | 9.96  | pass |
|        | 151 | 5755 | Ant 1 | 10.89 | pass |
|        | 159 | 5795 | Ant 1 | 10.96 | pass |
| 11AC80 | 42  | 5210 | Ant 1 | 9.28  | pass |
|        | 58  | 5290 | Ant 1 | 9.24  | pass |
|        | 106 | 5530 | Ant 1 | 9.44  | pass |
|        | 155 | 5775 | Ant 1 | 9.97  | pass |

## Appendix E: Peak Power Spectral Density Level

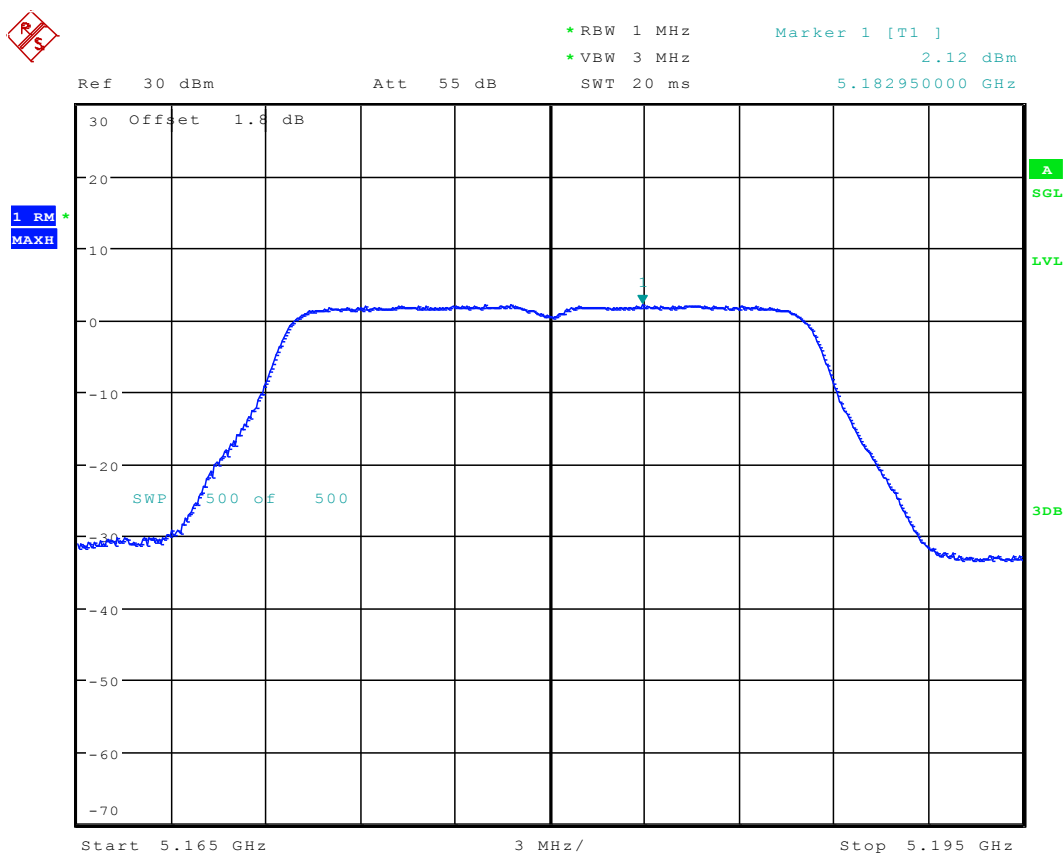
## 9 Result Table

| Test Mode | Test Channel | Frequency [MHz] | Antenna Port | Meas. Level (Cond.) [dBm] | Verdict |
|-----------|--------------|-----------------|--------------|---------------------------|---------|
| 11A       | 36           | 5180            | Ant 1        | 2.12                      | pass    |
|           | 48           | 5240            | Ant 1        | 2.22                      | pass    |
|           | 52           | 5260            | Ant 1        | 2.82                      | pass    |
|           | 64           | 5320            | Ant 1        | 2.86                      | pass    |
|           | 100          | 5500            | Ant 1        | 2.87                      | pass    |
|           | 140          | 5700            | Ant 1        | 2.33                      | pass    |
|           | 149          | 5745            | Ant 1        | 2.63                      | pass    |
|           | 165          | 5825            | Ant 1        | 2.54                      | pass    |
| 11N20     | 36           | 5180            | Ant 1        | 2.07                      | pass    |
|           | 48           | 5240            | Ant 1        | 1.75                      | pass    |
|           | 52           | 5260            | Ant 1        | 2.63                      | pass    |
|           | 64           | 5320            | Ant 1        | 2.47                      | pass    |
|           | 100          | 5500            | Ant 1        | 2.67                      | pass    |
|           | 140          | 5700            | Ant 1        | 2.58                      | pass    |
|           | 149          | 5745            | Ant 1        | 2.34                      | pass    |
|           | 165          | 5825            | Ant 1        | 2.04                      | pass    |
| 11N40     | 38           | 5190            | Ant 1        | -3.04                     | pass    |
|           | 46           | 5230            | Ant 1        | -2.99                     | pass    |
|           | 54           | 5270            | Ant 1        | -2.92                     | pass    |
|           | 62           | 5310            | Ant 1        | -3.14                     | pass    |
|           | 102          | 5510            | Ant 1        | -2.54                     | pass    |
|           | 134          | 5670            | Ant 1        | -2.97                     | pass    |
|           | 151          | 5755            | Ant 1        | -1.88                     | pass    |
|           | 159          | 5795            | Ant 1        | -1.64                     | pass    |
| 11AC20    | 36           | 5180            | Ant 1        | 2.25                      | pass    |
|           | 48           | 5240            | Ant 1        | 2.02                      | pass    |
|           | 52           | 5260            | Ant 1        | 2.63                      | pass    |
|           | 64           | 5320            | Ant 1        | 2.65                      | pass    |
|           | 100          | 5500            | Ant 1        | 2.75                      | pass    |
|           | 140          | 5700            | Ant 1        | 2.40                      | pass    |
|           | 149          | 5745            | Ant 1        | 2.03                      | pass    |
|           | 165          | 5825            | Ant 1        | 2.16                      | pass    |
| 11AC40    | 38           | 5190            | Ant 1        | -3.07                     | pass    |
|           | 46           | 5230            | Ant 1        | -3.15                     | pass    |

|        |     |      |       |       |      |
|--------|-----|------|-------|-------|------|
|        | 54  | 5270 | Ant 1 | -3.08 | pass |
|        | 62  | 5310 | Ant 1 | -2.50 | pass |
|        | 102 | 5510 | Ant 1 | -1.91 | pass |
|        | 134 | 5670 | Ant 1 | -2.82 | pass |
|        | 151 | 5755 | Ant 1 | -2.06 | pass |
|        | 159 | 5795 | Ant 1 | -1.83 | pass |
| 11AC80 | 42  | 5210 | Ant 1 | -6.06 | pass |
|        | 58  | 5290 | Ant 1 | -5.83 | pass |
|        | 106 | 5530 | Ant 1 | -5.48 | pass |
|        | 155 | 5775 | Ant 1 | -5.20 | pass |

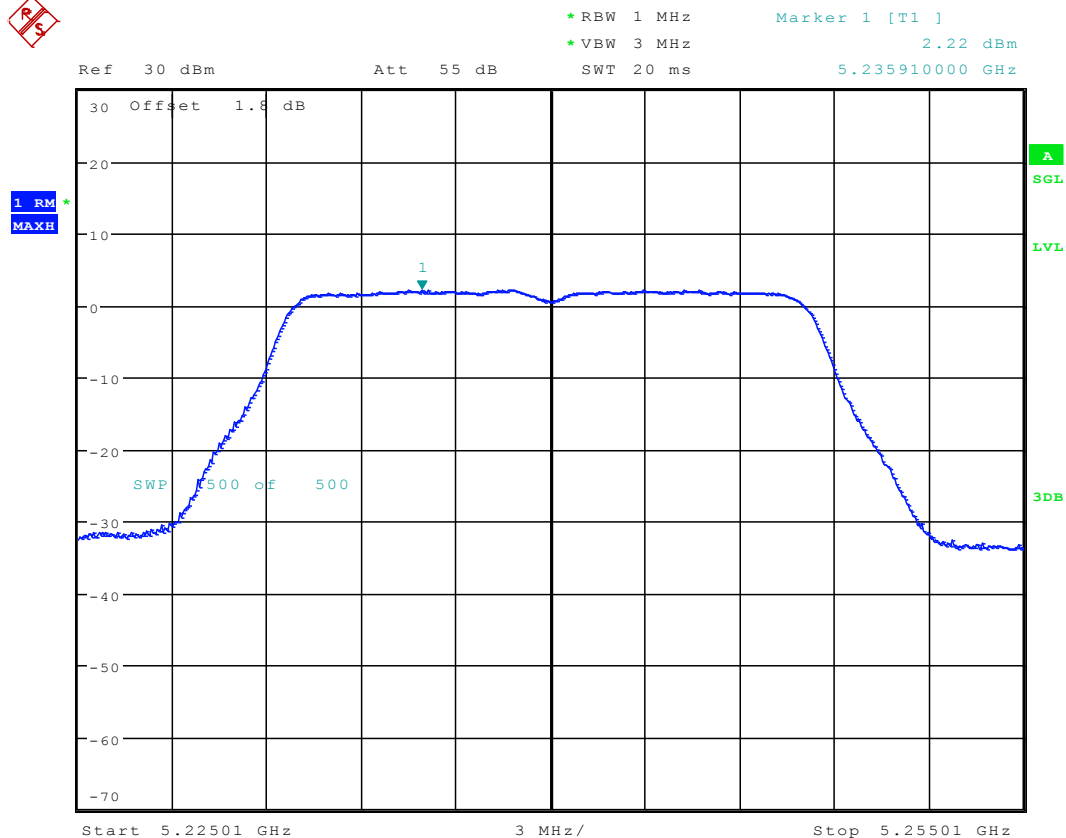
## 10 Test Plot

### 10.1 11A\_36 Ant 1



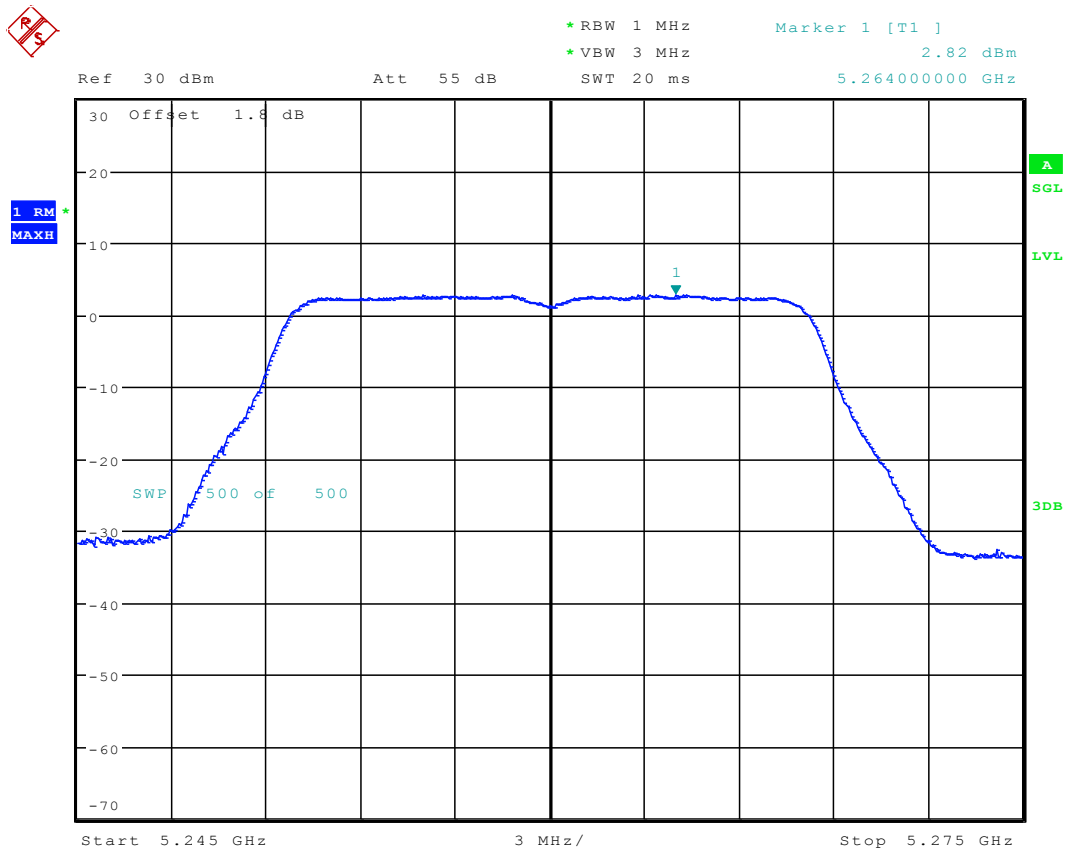
Date: 12.DEC.2016 15:34:21

## 10.2 11A\_48 Ant 1



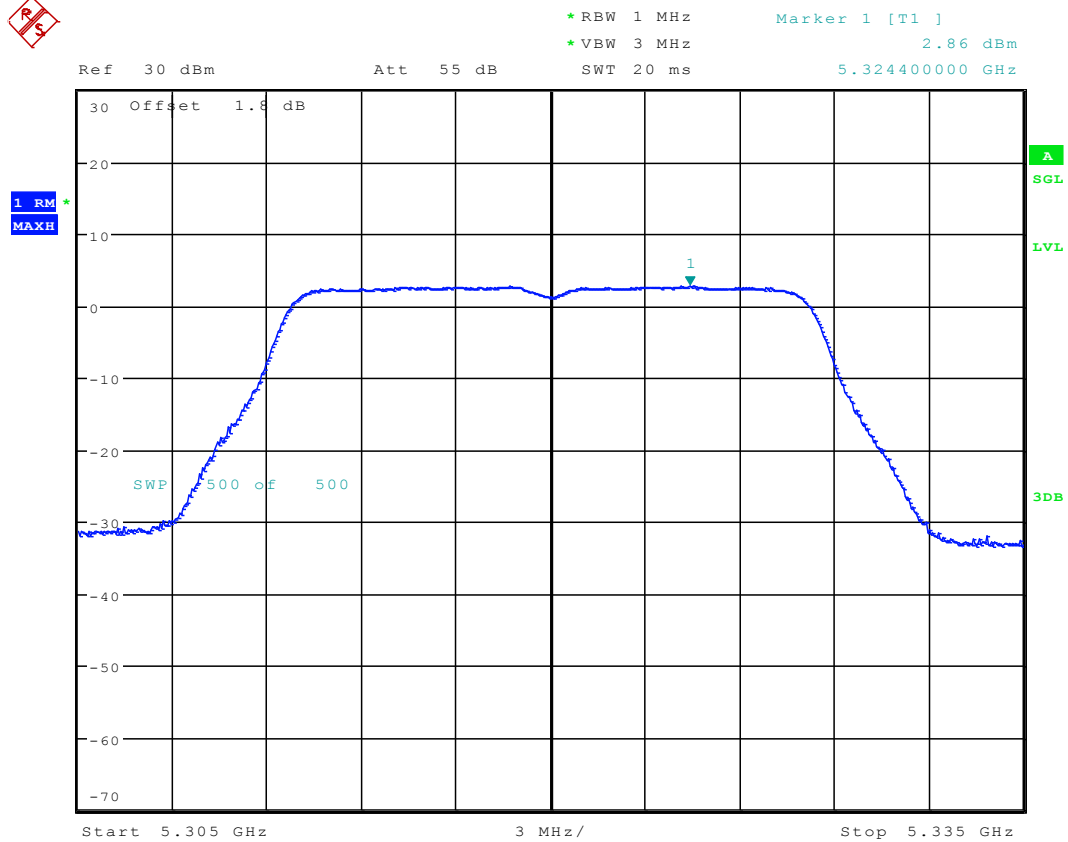
Date: 12.DEC.2016 15:42:12

### 10.3 11A\_52 Ant 1



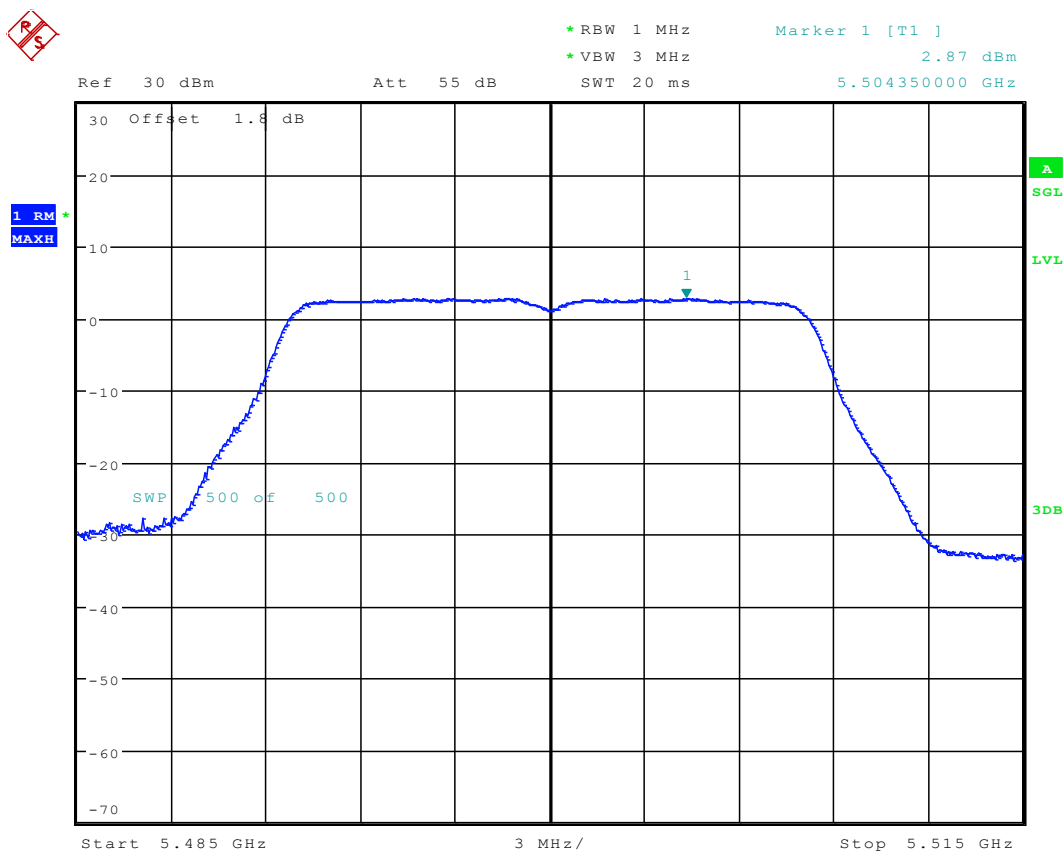
Date: 12.DEC.2016 15:59:13

## 10.4 11A\_64 Ant 1

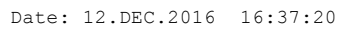


Date: 12.DEC.2016 16:32:52

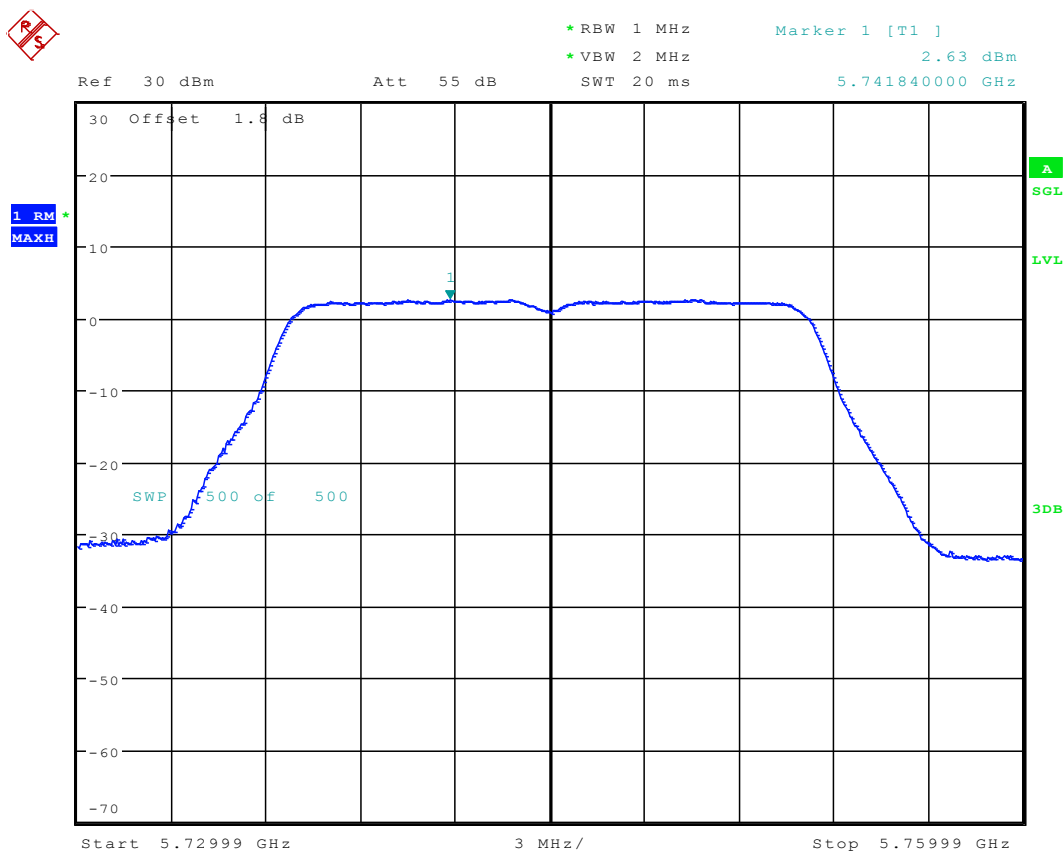
## 10.5 11A\_100 Ant 1



Date: 12.DEC.2016 16:34:25

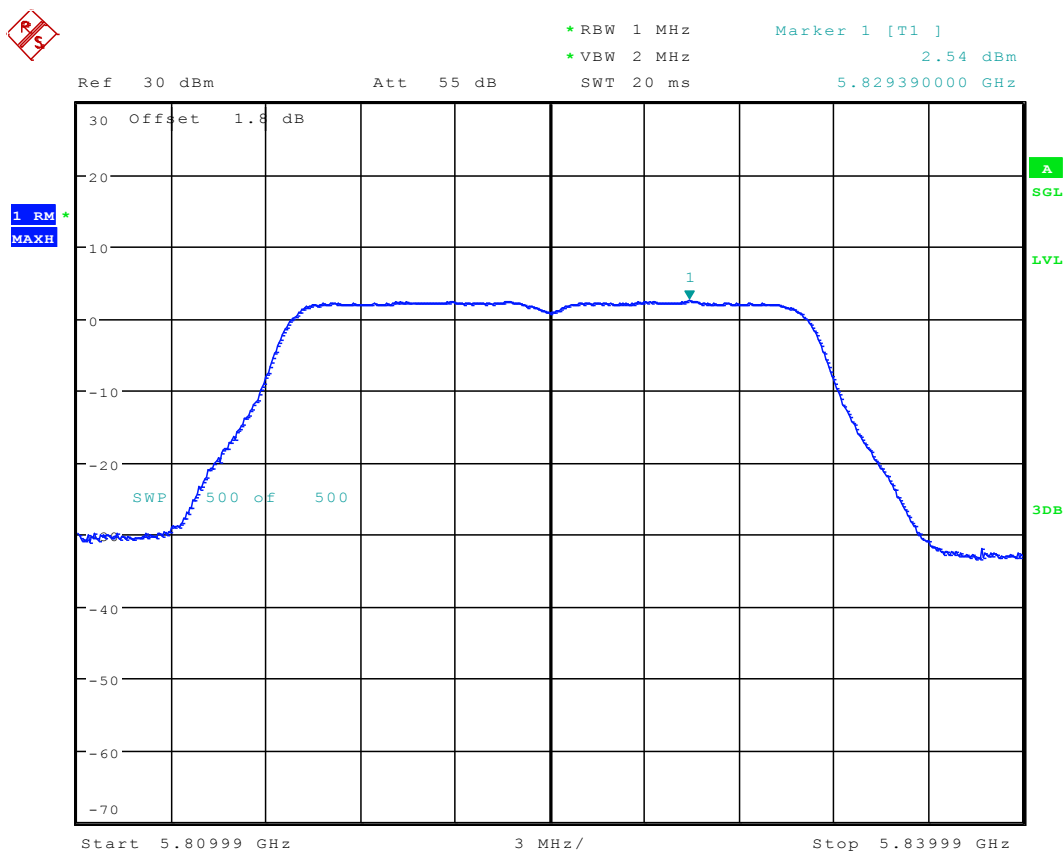


## 10.7 11A\_149 Ant 1



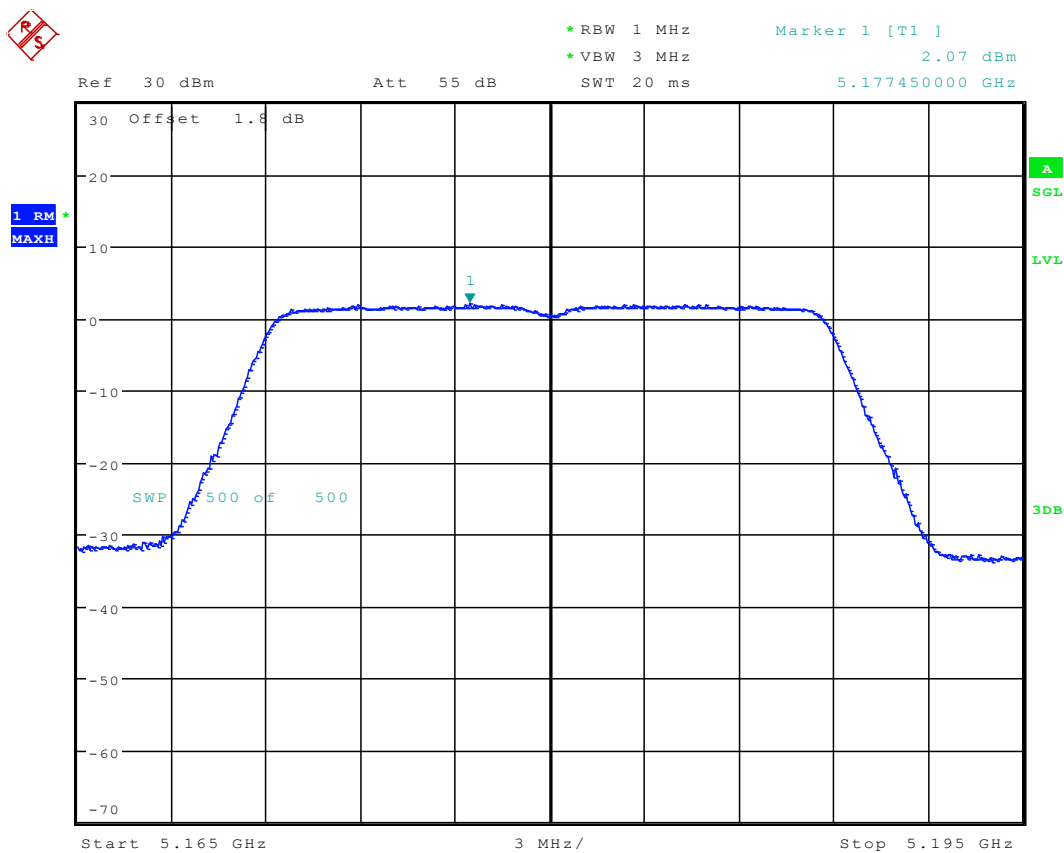
Date: 12.DEC.2016 16:47:53

## 10.8 11A\_165 Ant 1



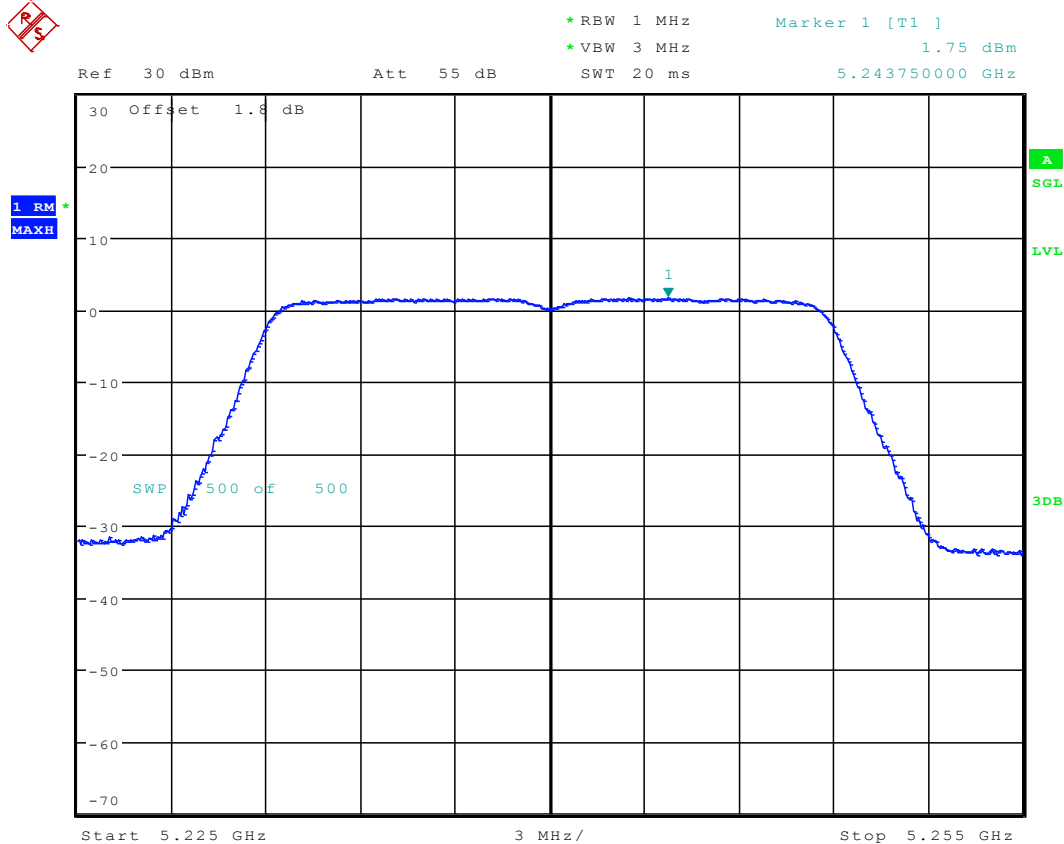
Date: 12.DEC.2016 16:51:09

## 10.9 11N20\_36 Ant 1



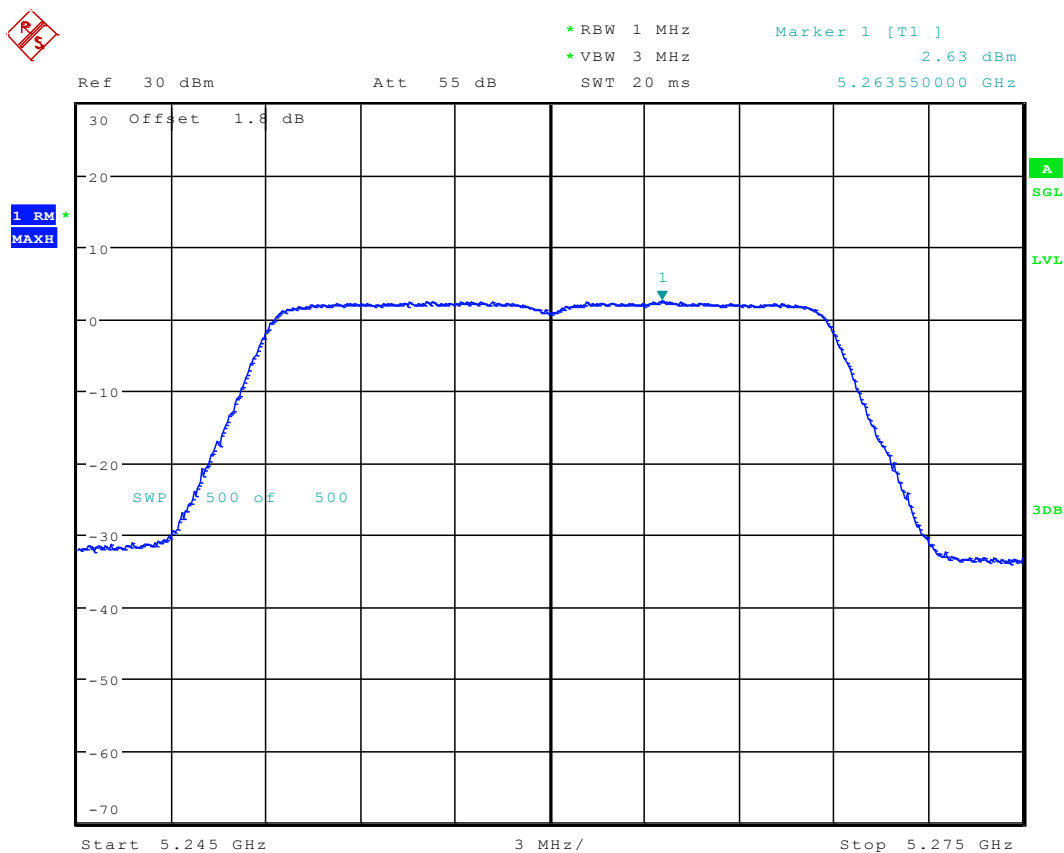
Date: 13.DEC.2016 18:16:05

## 10.10 11N20\_48 Ant 1



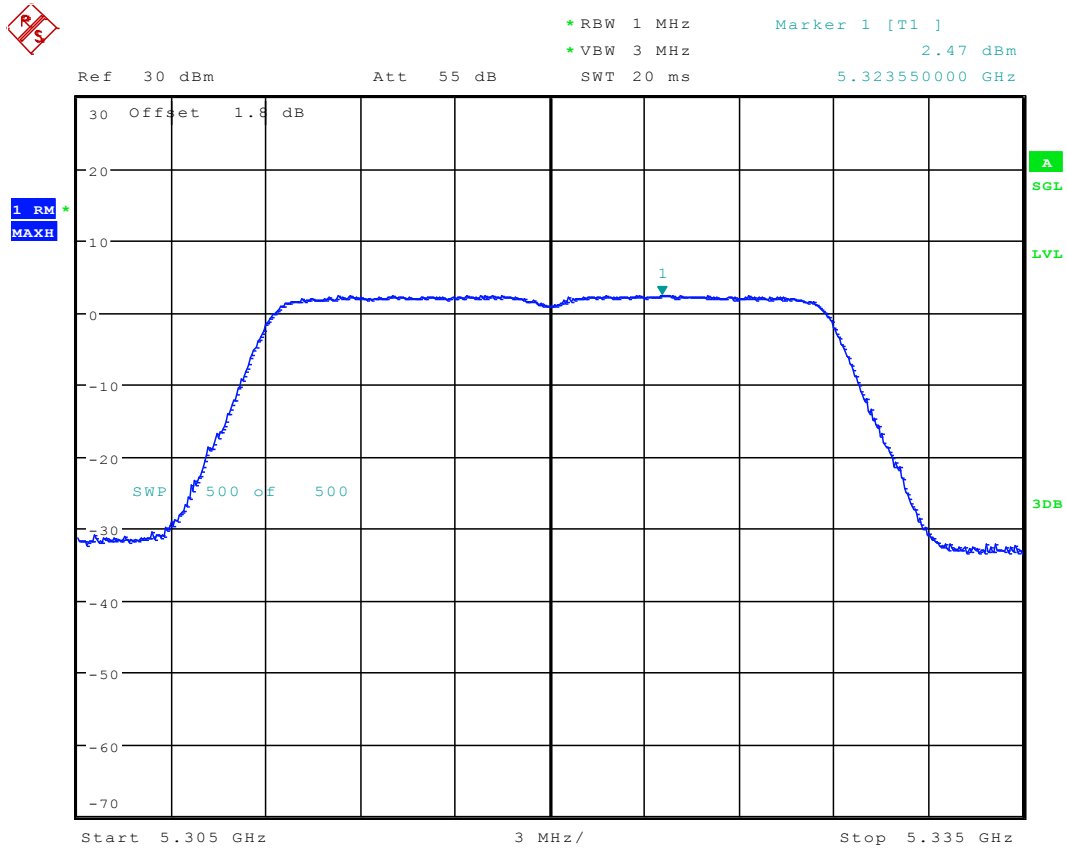
Date: 13.DEC.2016 18:17:36

## 10.11 11N20\_52 Ant 1



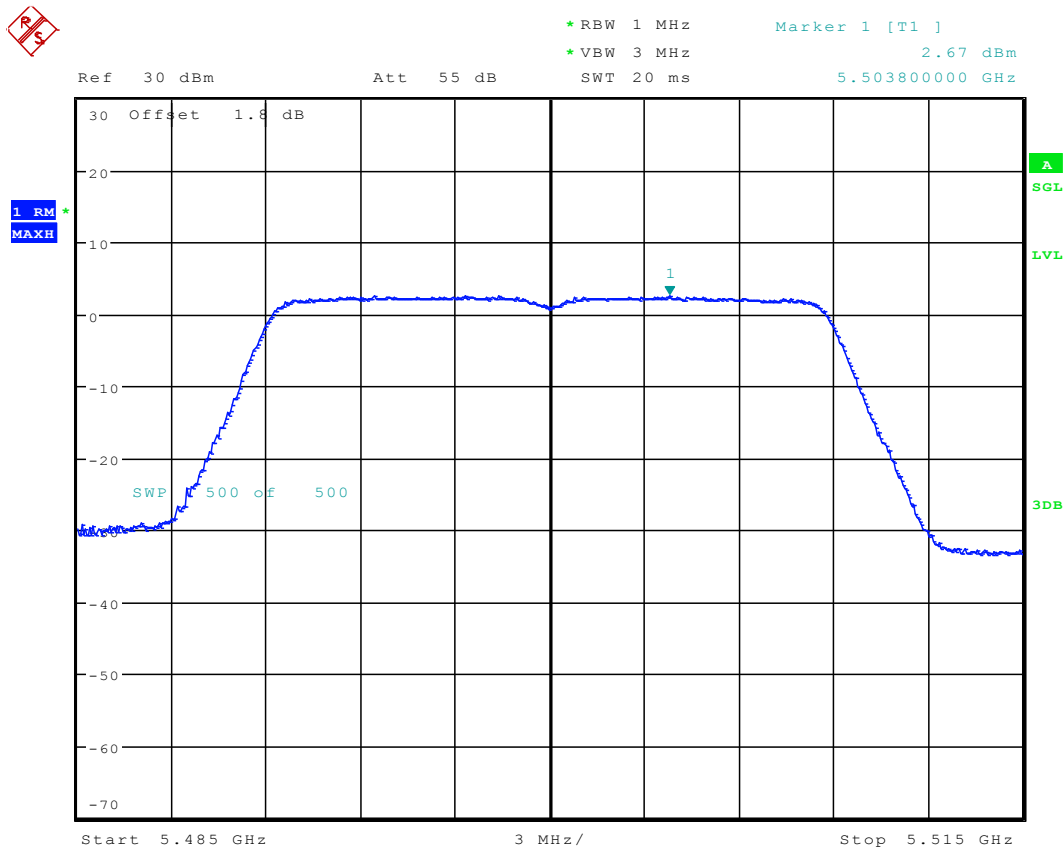
Date: 13.DEC.2016 18:19:11

## 10.12 11N20\_64 Ant 1



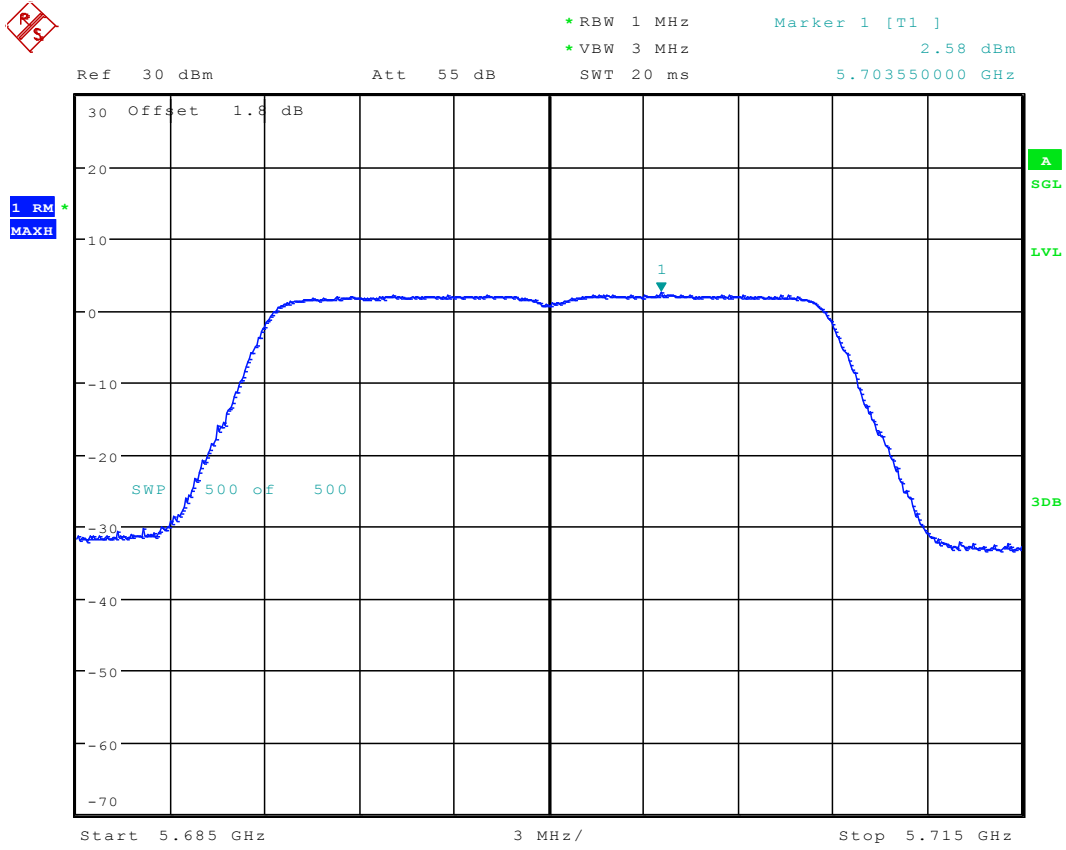
Date: 13.DEC.2016 18:20:26

### 10.13 11N20\_100 Ant 1



Date: 13.DEC.2016 18:21:56

### 10.14 11N20\_140 Ant 1

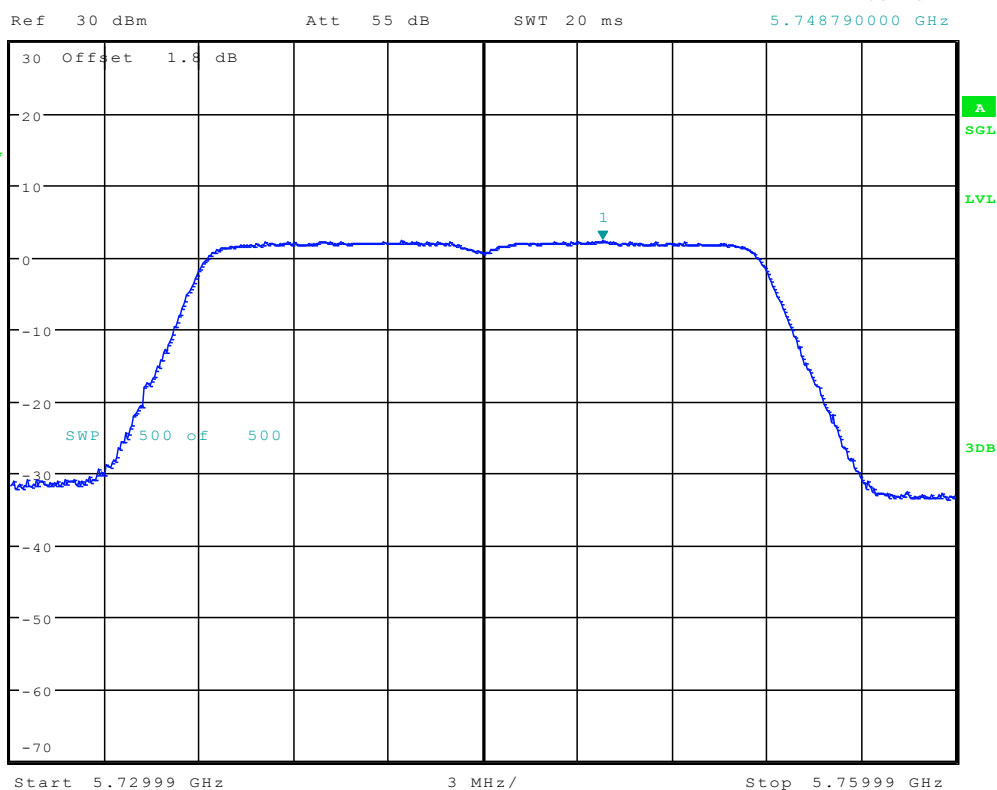


Date: 13.DEC.2016 18:23:27

## 10.15 11N20\_149 Ant 1

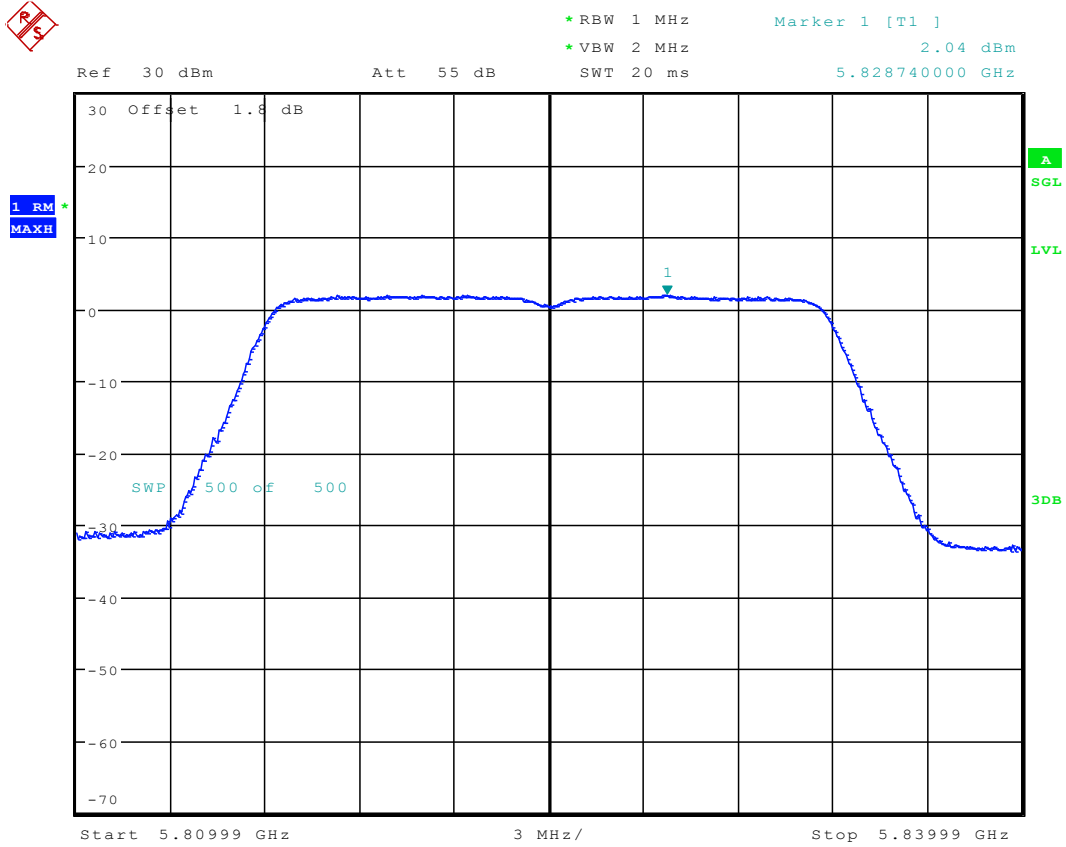


\* RBW 1 MHz      Marker 1 [T1 ]  
\* VBW 2 MHz      2.34 dBm  
SWT 20 ms      5.748790000 GHz



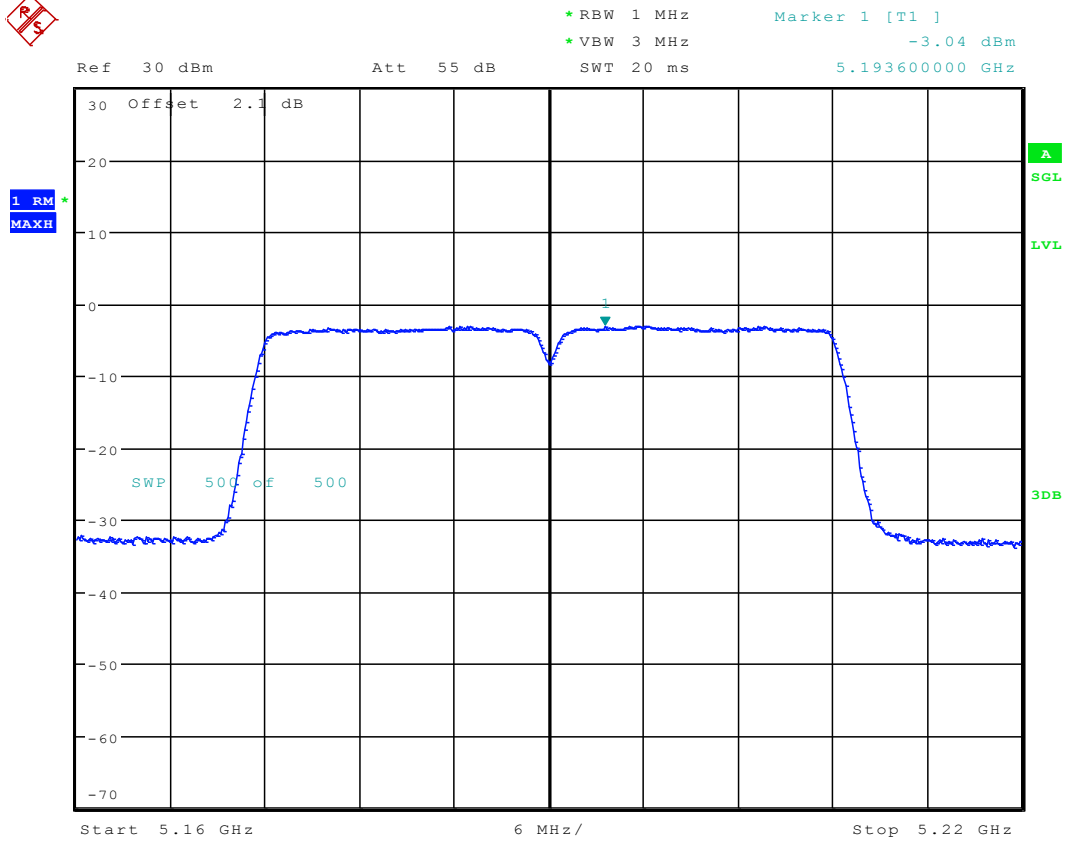
Date: 13.DEC.2016 18:29:26

### 10.16 11N20\_165 Ant 1



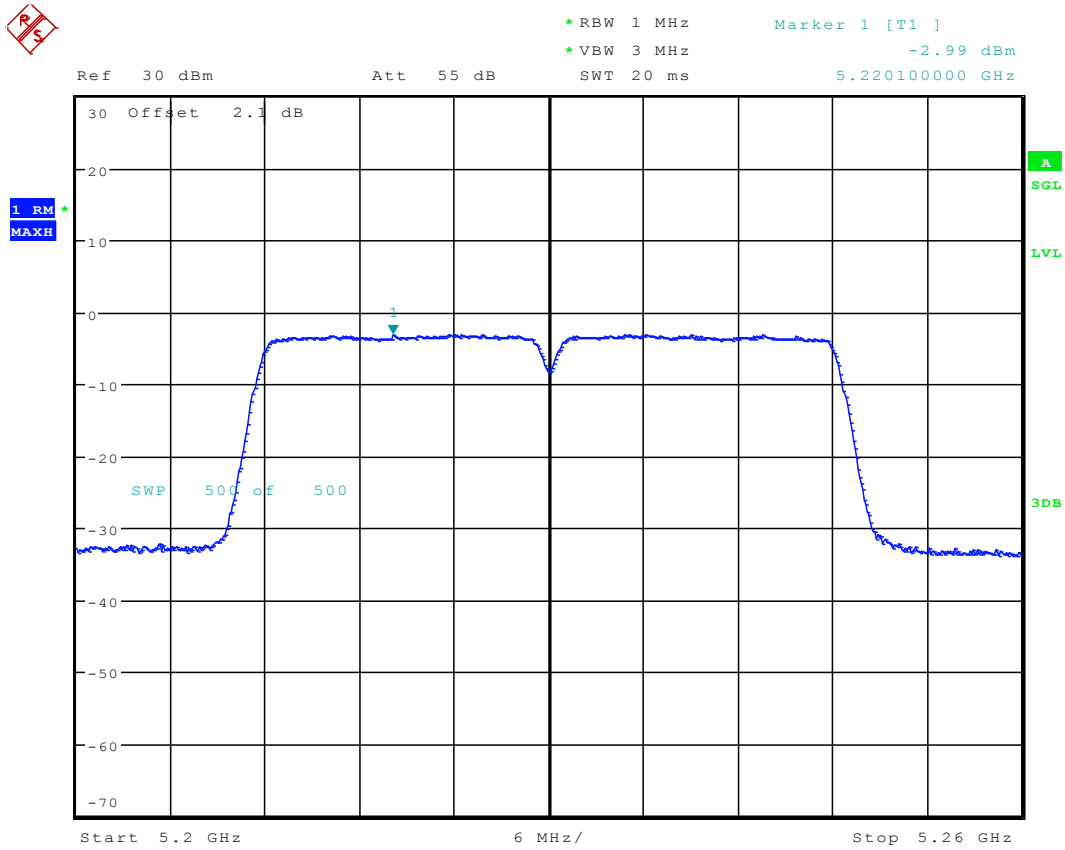
Date: 13.DEC.2016 18:33:05

### 10.17 11N40\_38 Ant 1



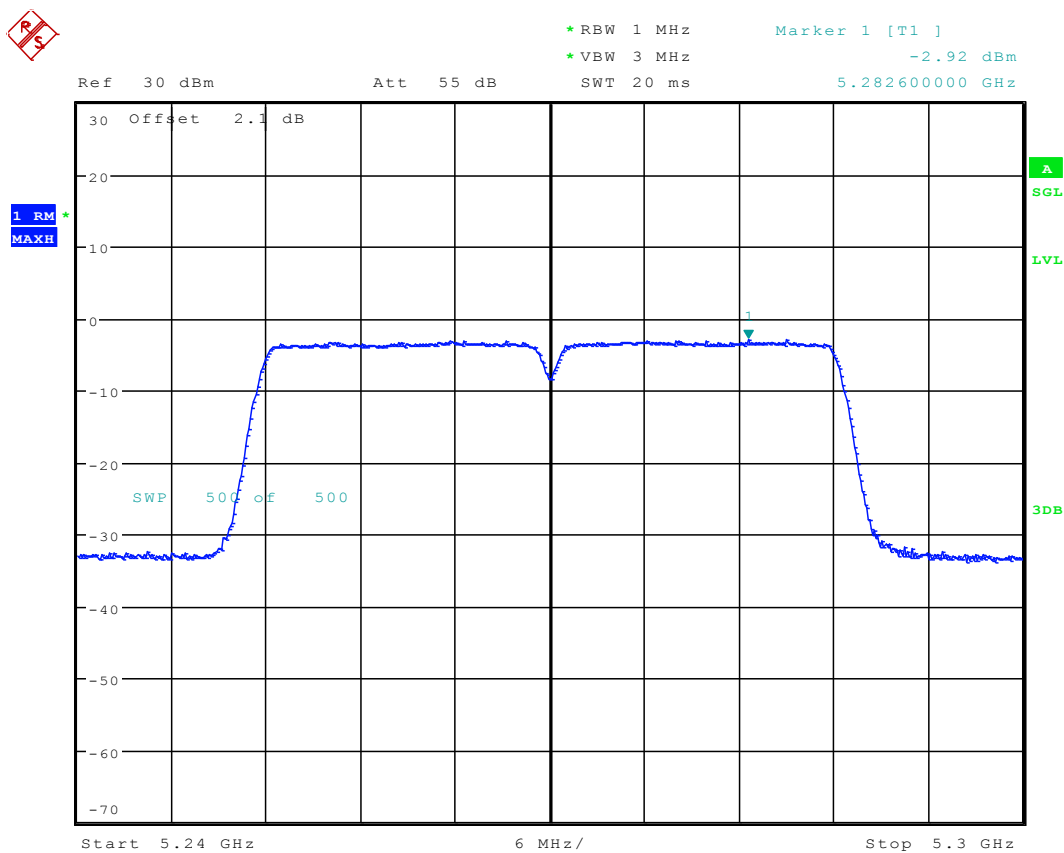
Date: 14.DEC.2016 12:23:12

## 10.18 11N40\_46 Ant 1



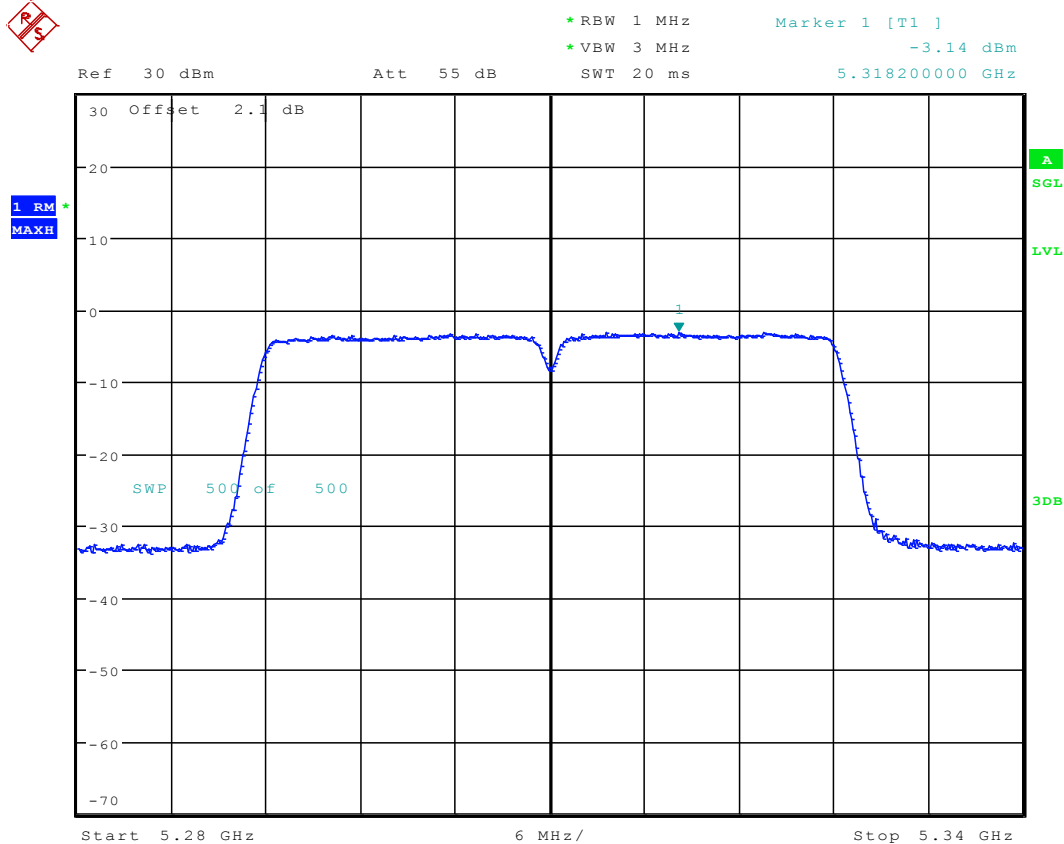
Date: 14.DEC.2016 12:26:35

## 10.19 11N40\_54 Ant 1



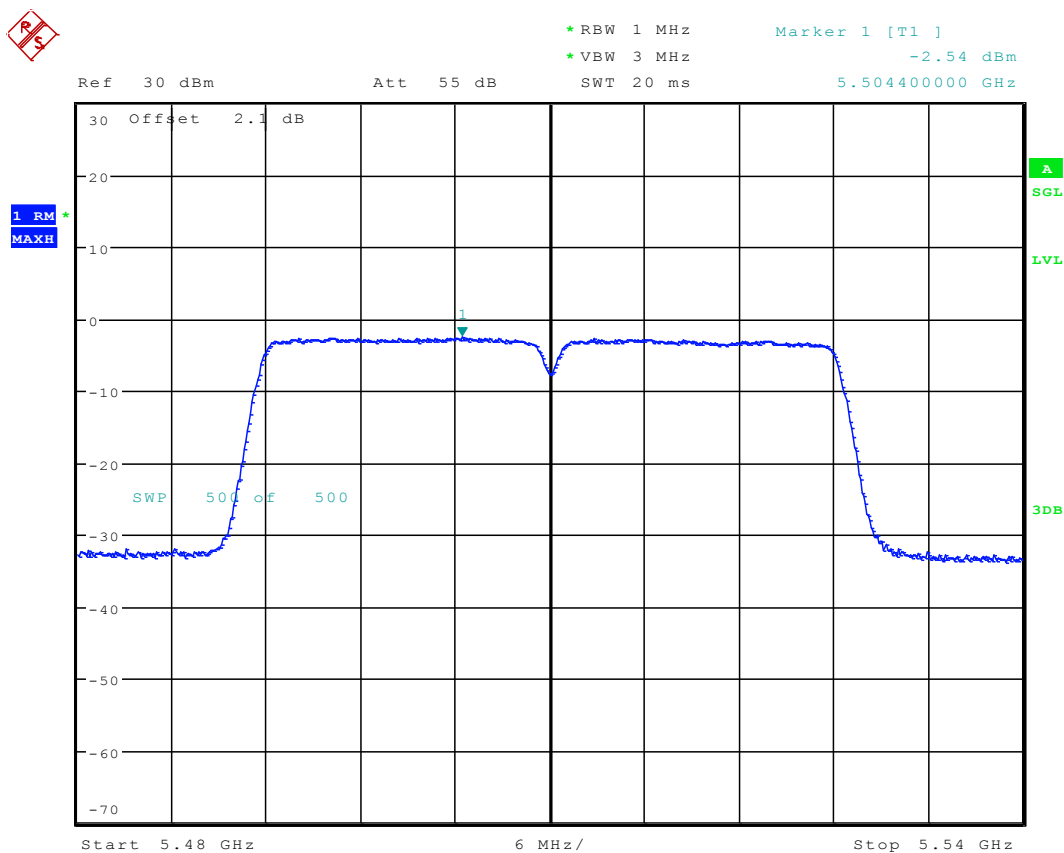
Date: 14.DEC.2016 12:27:57

# 10.20 11N40\_62 Ant 1



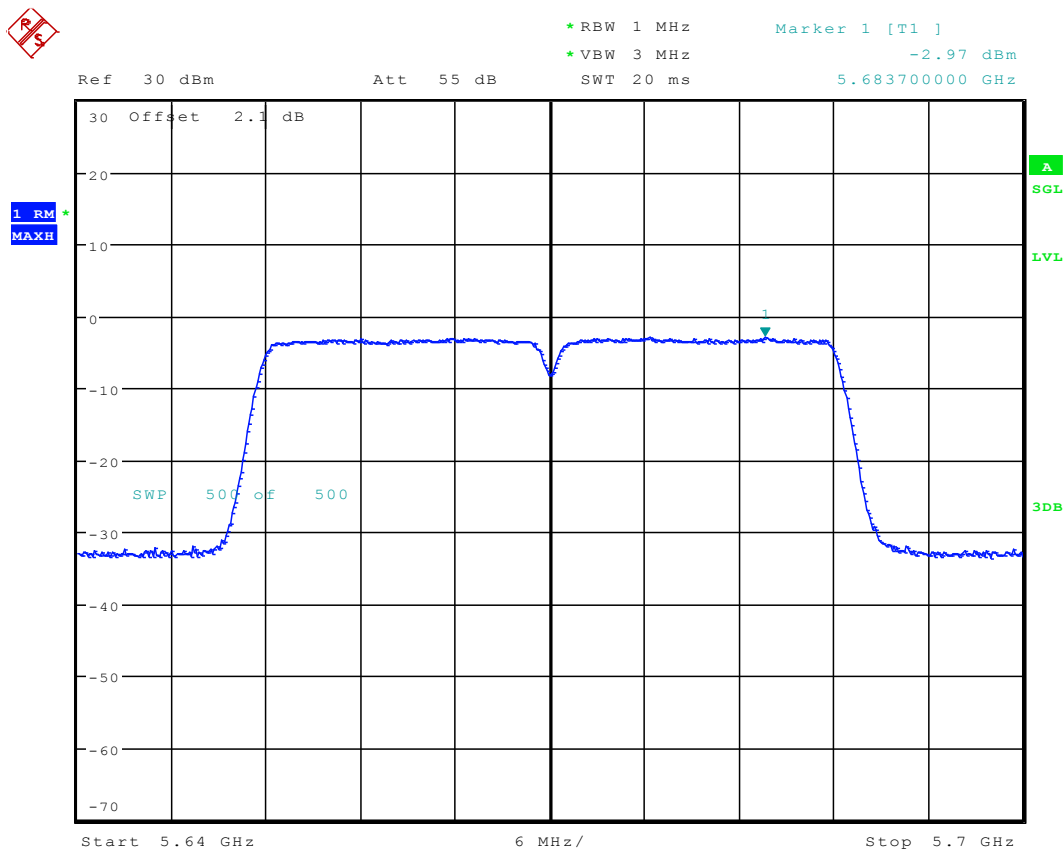
Date: 14.DEC.2016 12:29:15

# 10.21 11N40\_102 Ant 1



Date: 14.DEC.2016 12:31:16

## 10.22 11N40\_134 Ant 1



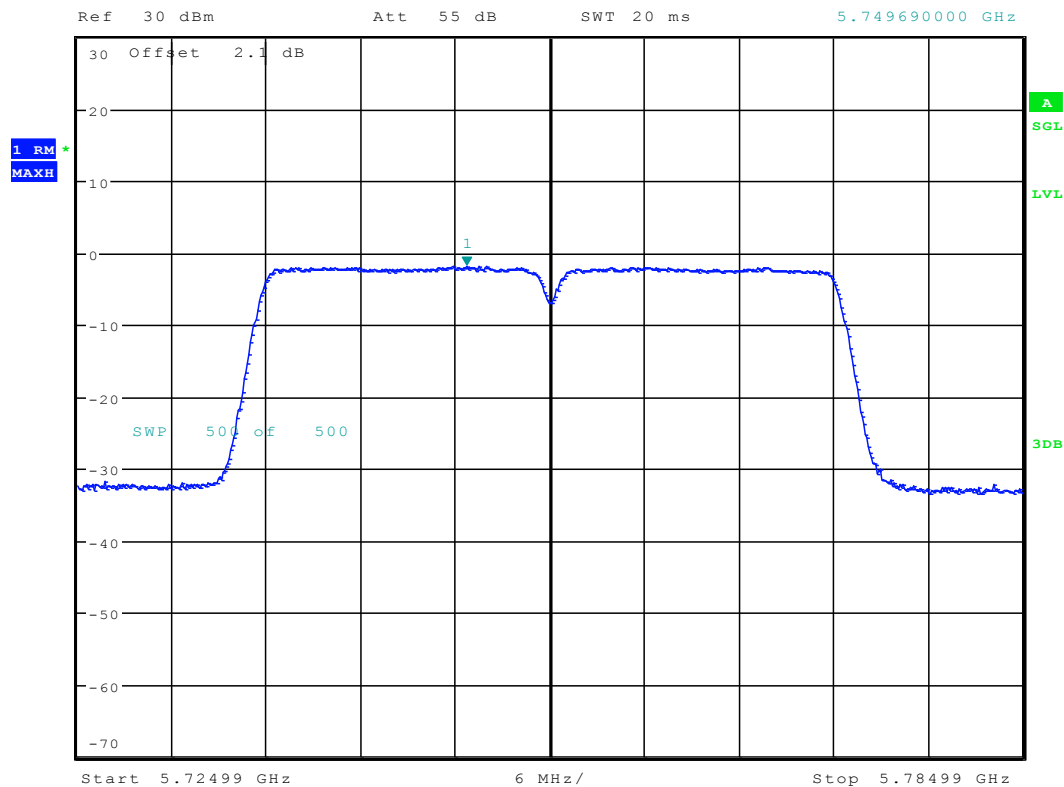
Date: 14.DEC.2016 12:32:42

# 10.23 11N40\_151 Ant 1



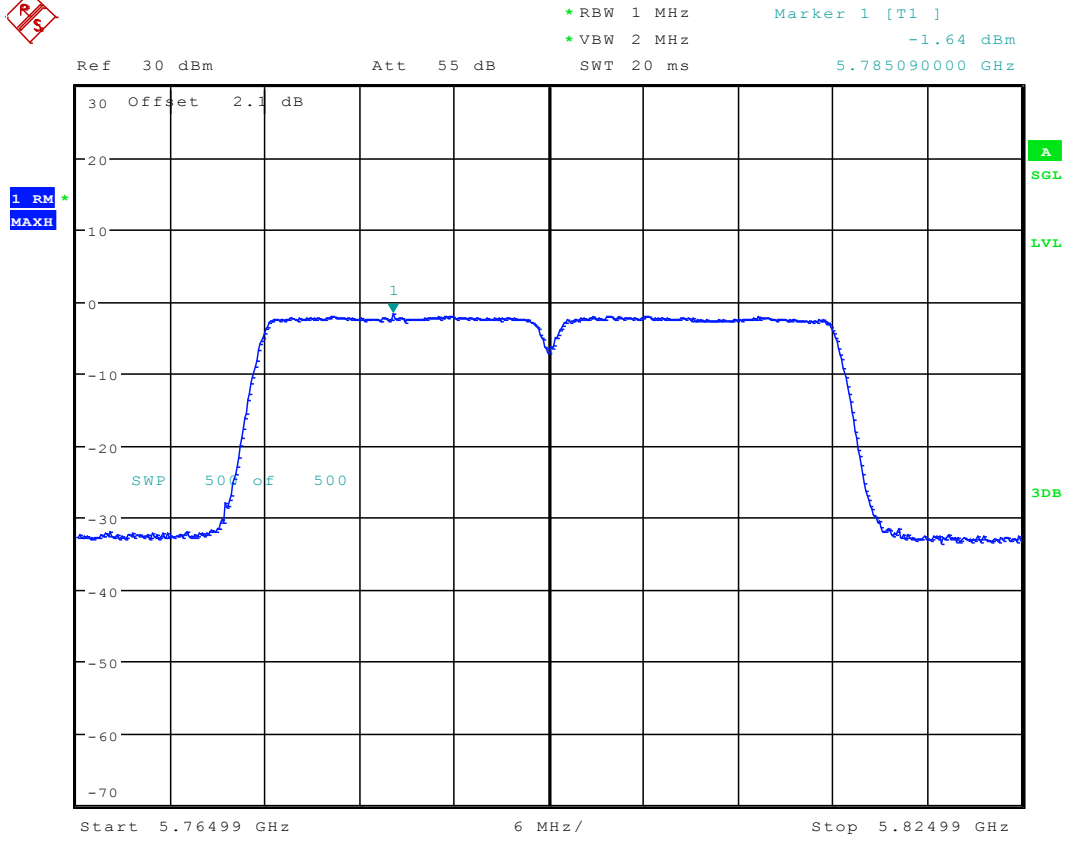
\*RBW 1 MHz  
\*VBW 2 MHz  
SWT 20 ms

Marker 1 [T1]  
-1.88 dBm  
5.749690000 GHz



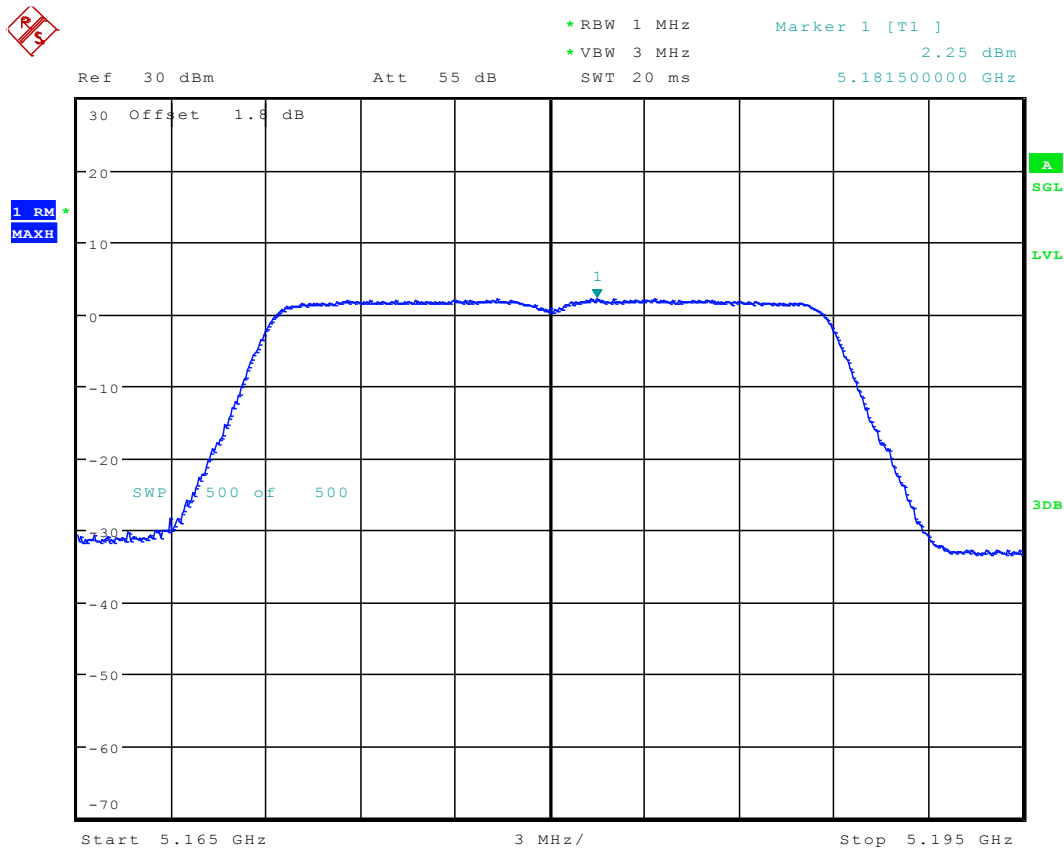
Date: 14.DEC.2016 12:50:07

### 10.24 11N40\_159 Ant 1



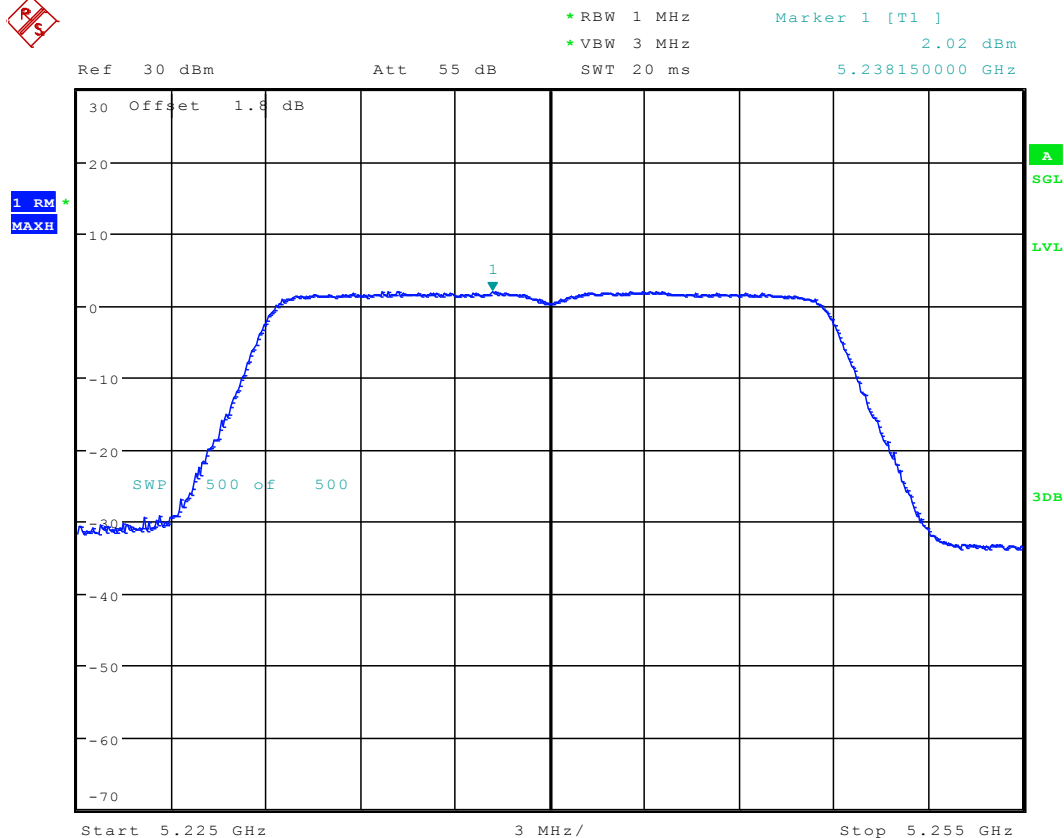
Date: 14.DEC.2016 12:44:31

## 10.25 11AC20\_36 Ant 1



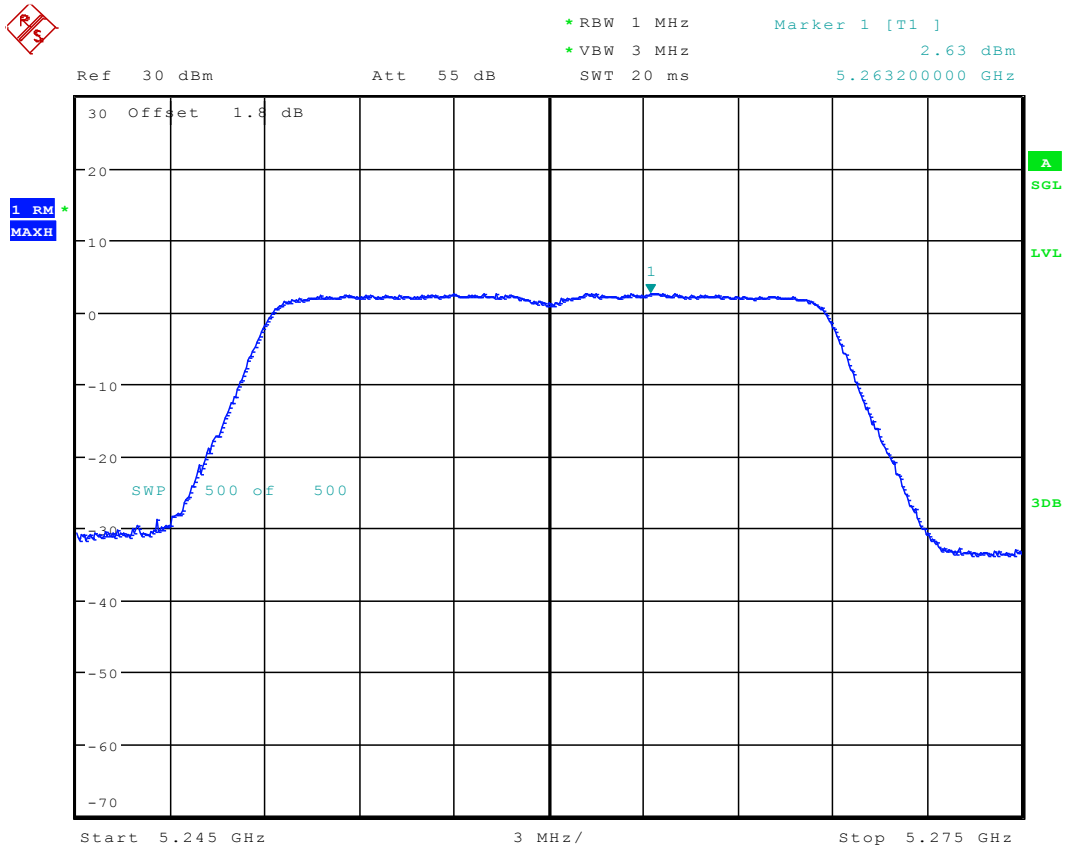
Date: 14.DEC.2016 12:57:11

## 10.26 11AC20\_48 Ant 1



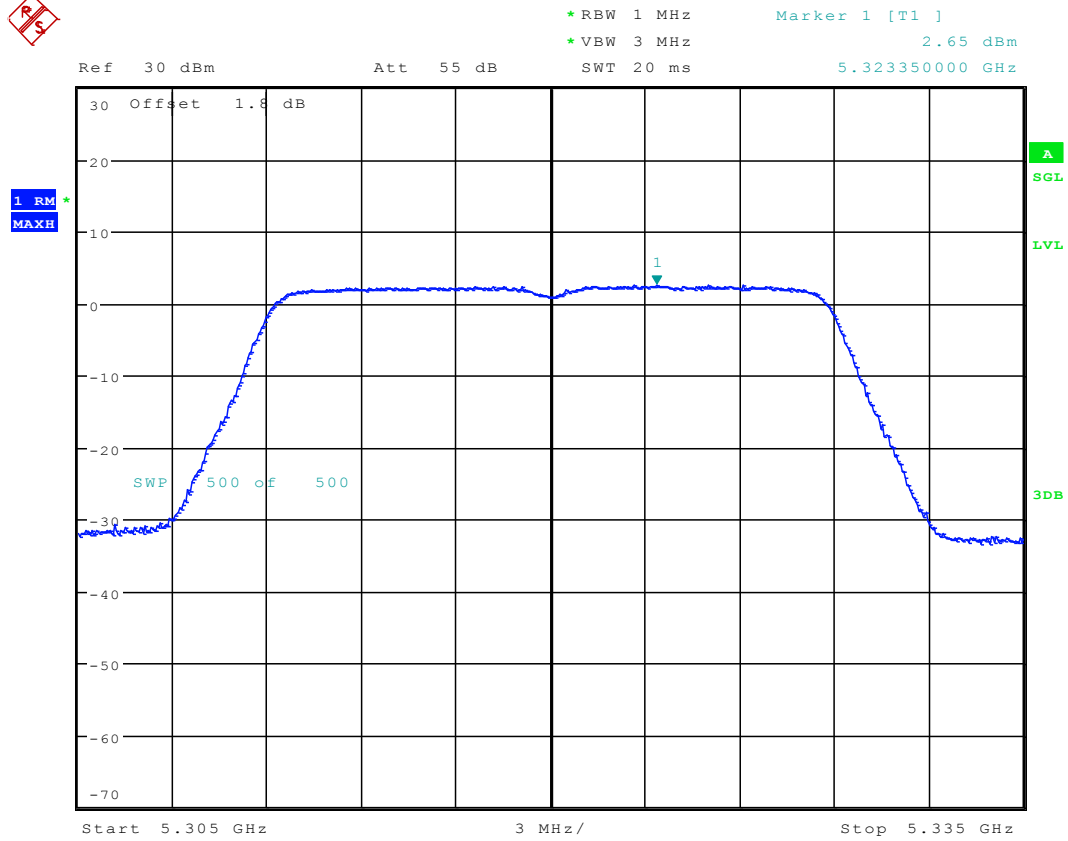
Date: 14.DEC.2016 14:30:14

## 10.27 11AC20\_52 Ant 1



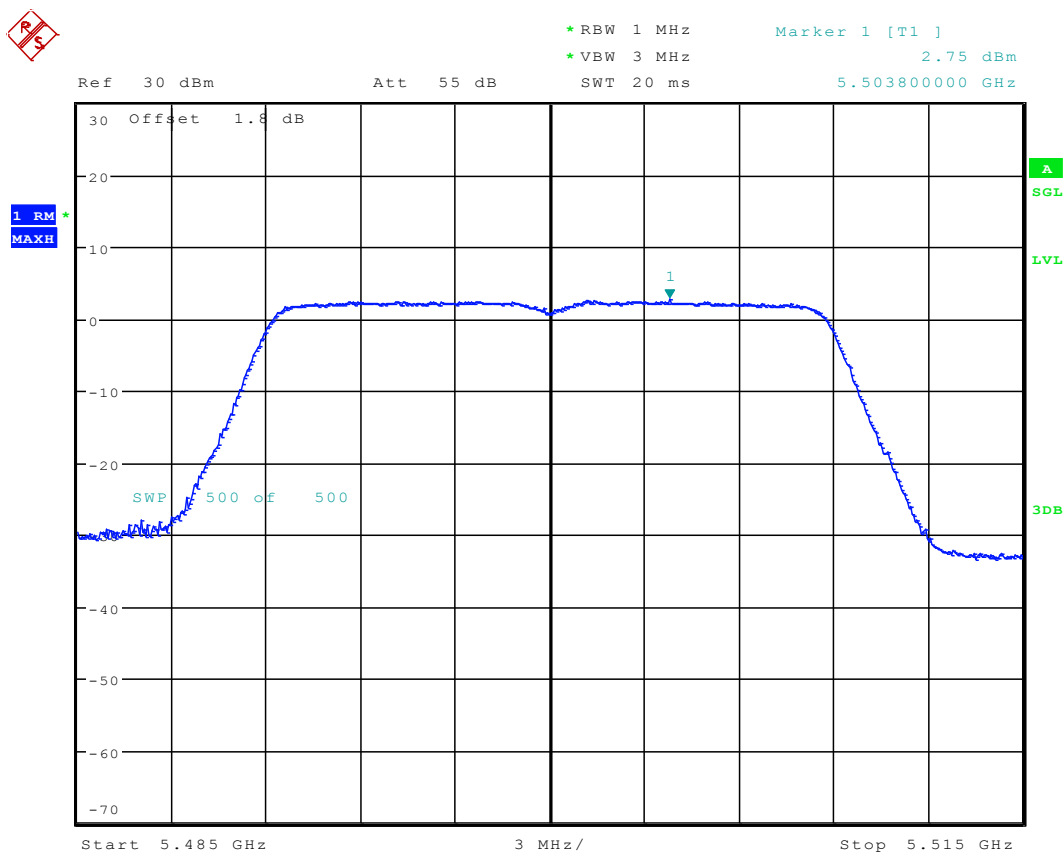
Date: 14.DEC.2016 14:33:54

## 10.28 11AC20\_64 Ant 1



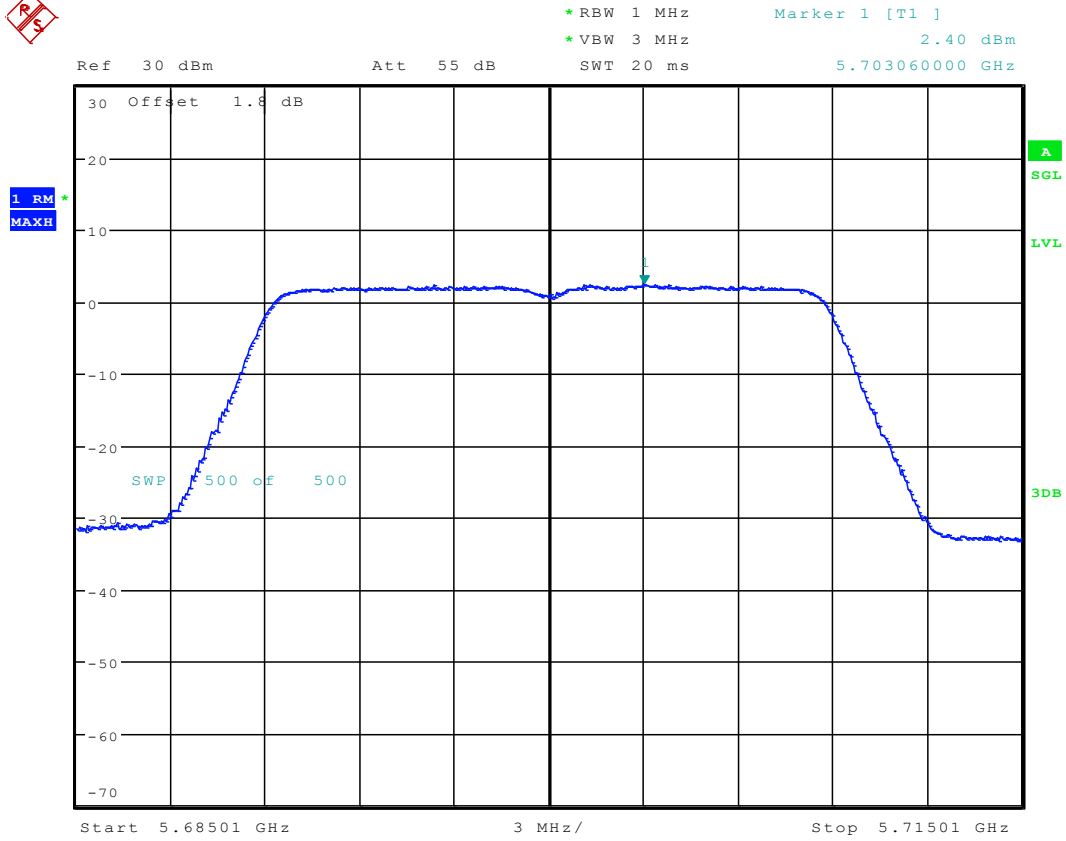
Date: 14.DEC.2016 14:37:23

## 10.29 11AC20\_100 Ant 1



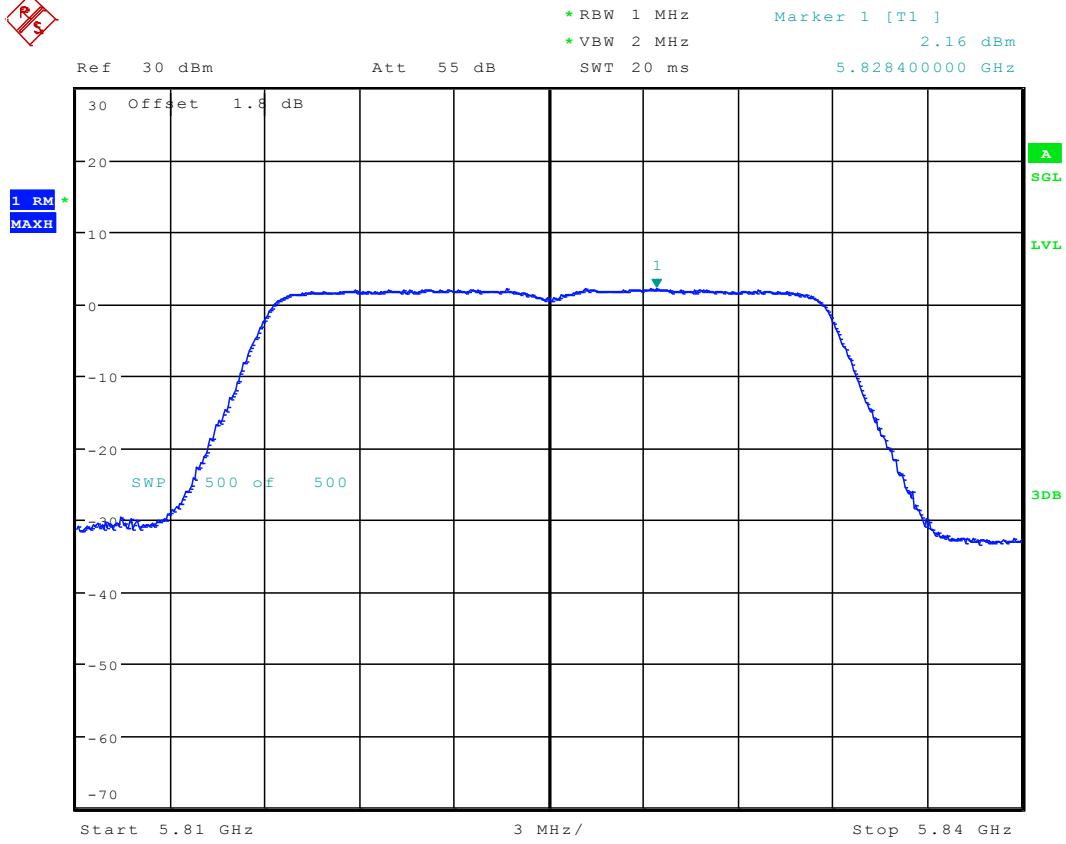
Date: 14.DEC.2016 14:42:25

### 10.30 11AC20\_140 Ant 1



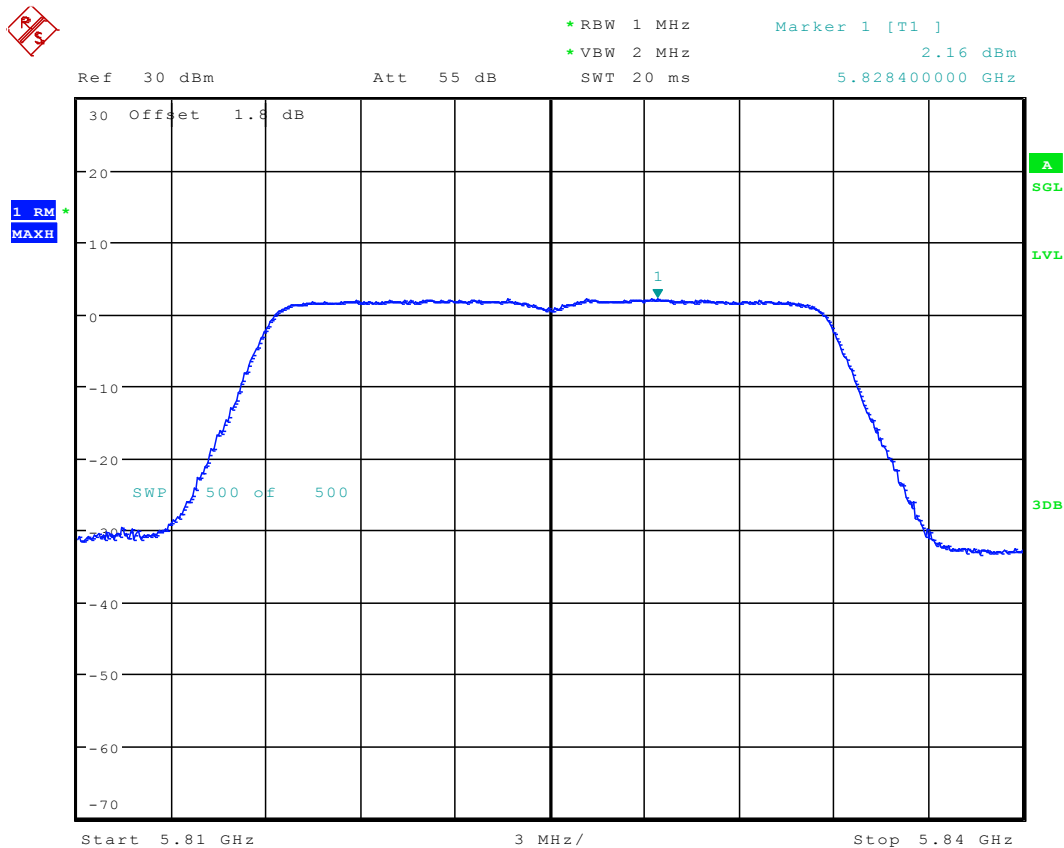
Date: 14.DEC.2016 20:29:59

# 10.31 11AC20\_149 Ant 1



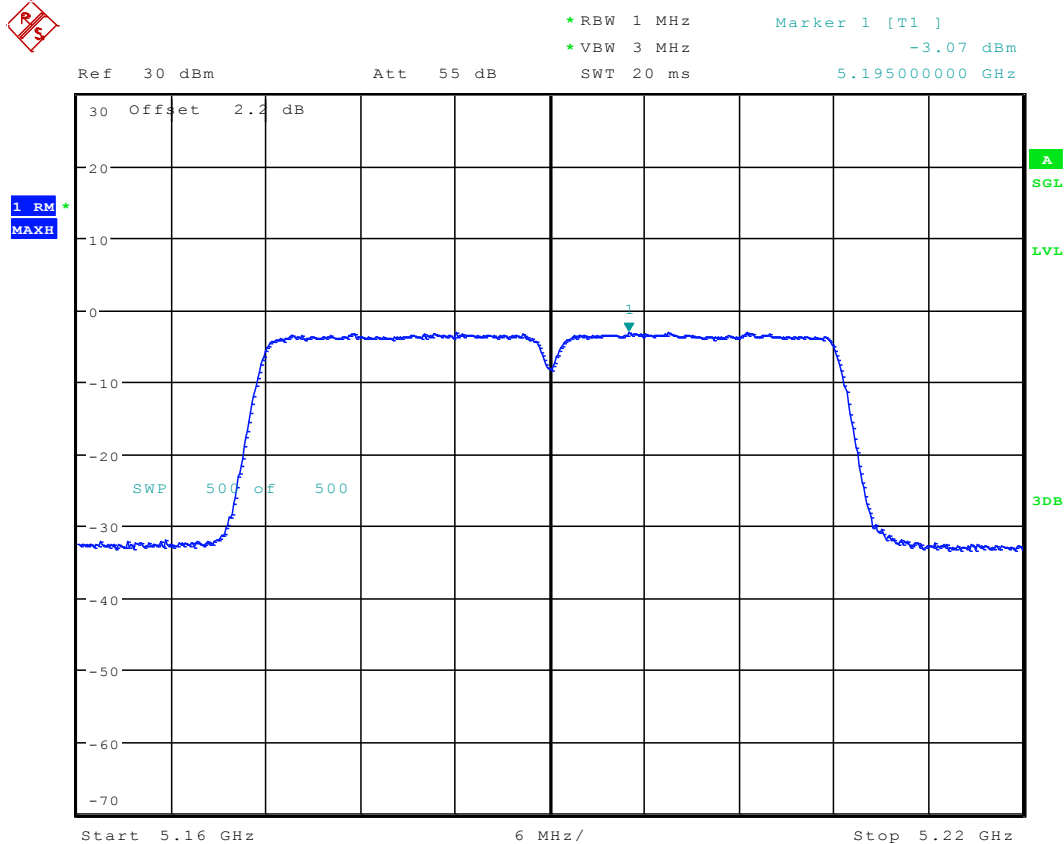
Date: 14.DEC.2016 14:52:28

## 10.32 11AC20\_165 Ant 1



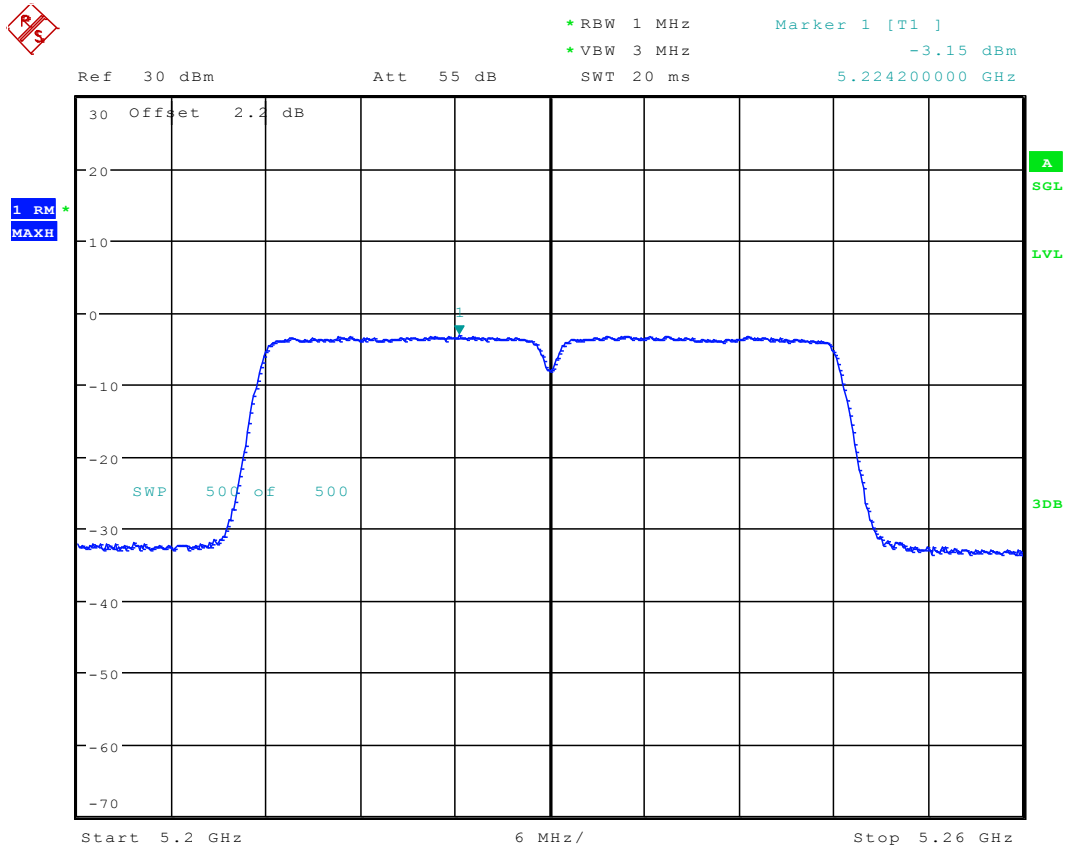
Date: 14.DEC.2016 14:52:28

# 10.33 11AC40\_38 Ant 1



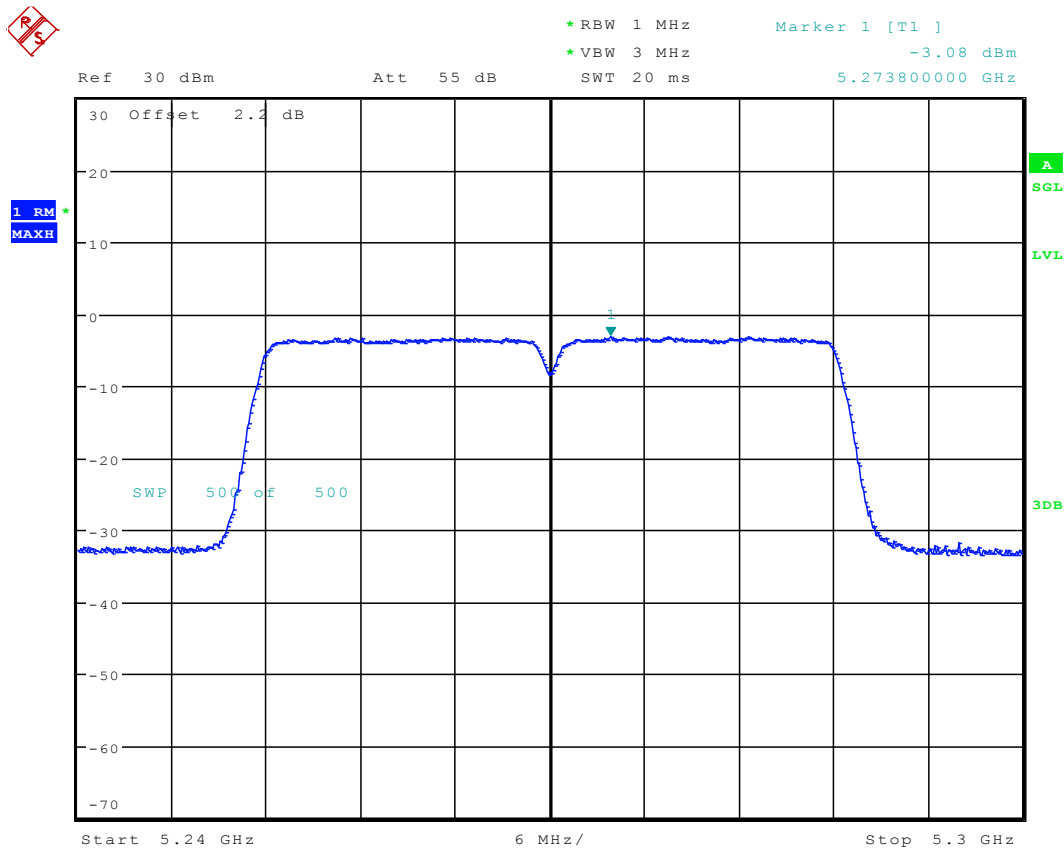
Date: 14.DEC.2016 15:04:31

## 10.34 11AC40\_46 Ant 1



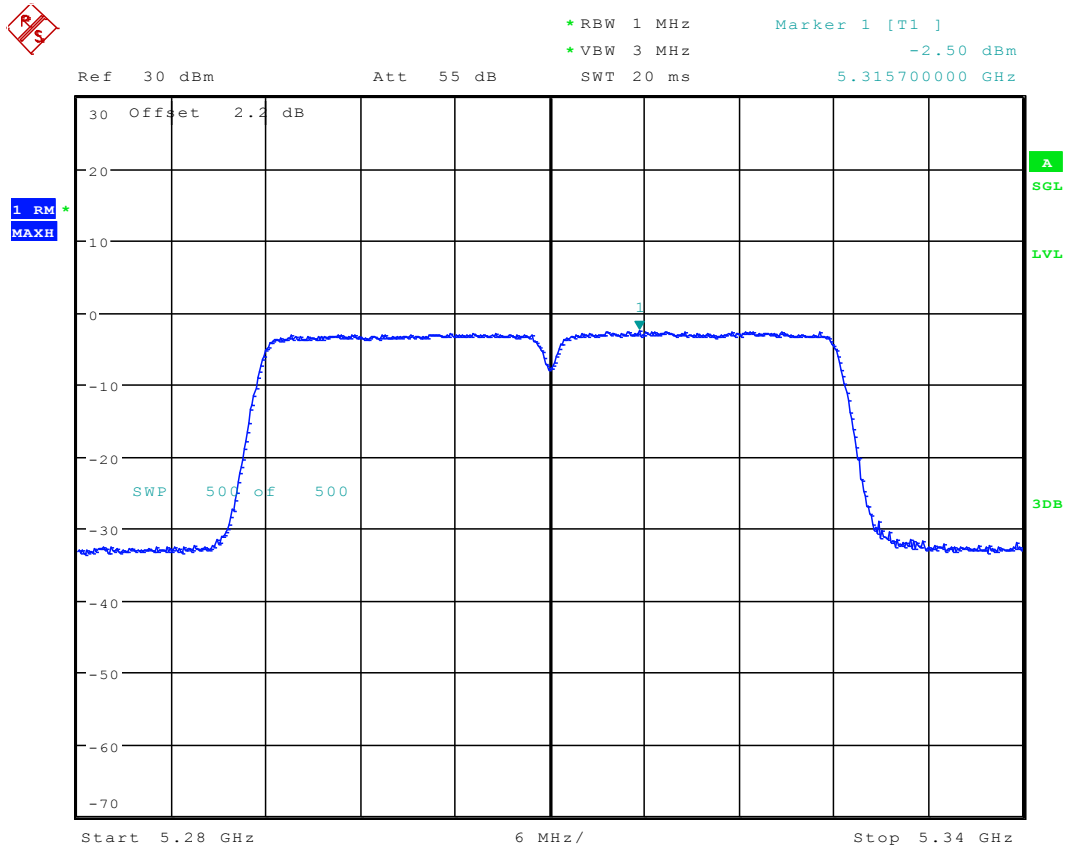
Date: 14.DEC.2016 15:08:26

## 10.35 11AC40\_54 Ant 1



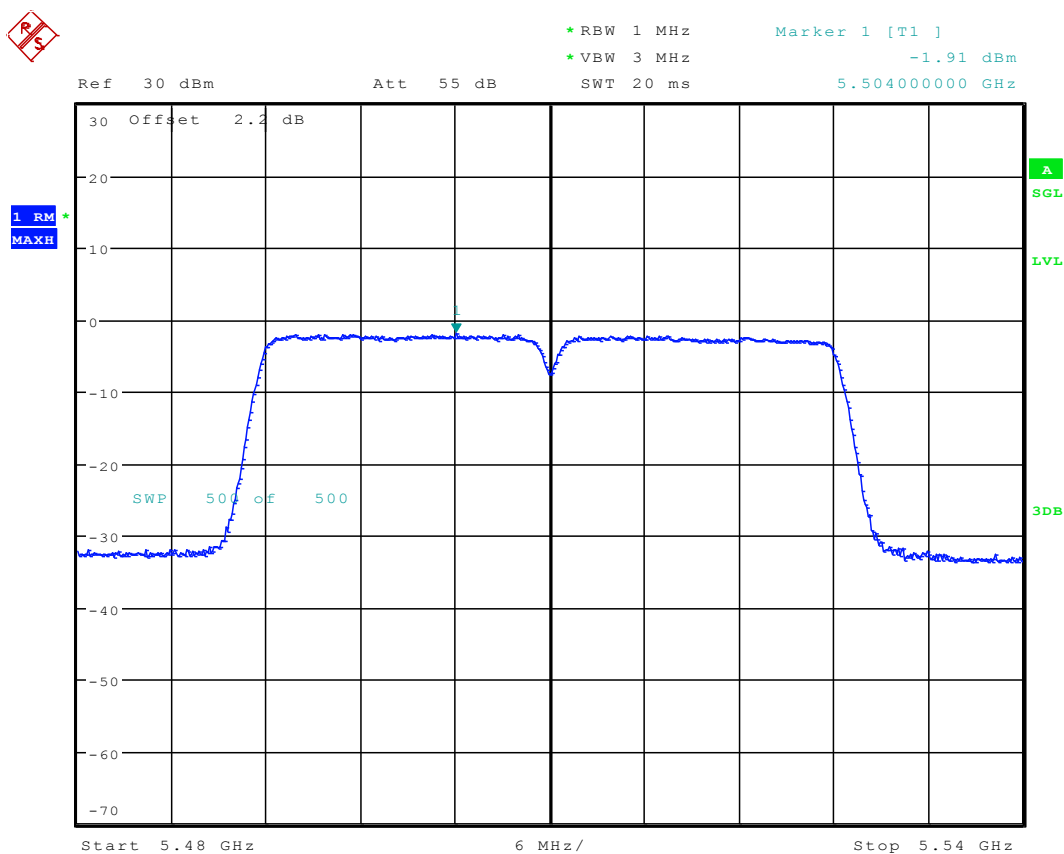
Date: 14.DEC.2016 15:12:46

### 10.36 11AC40\_62 Ant 1



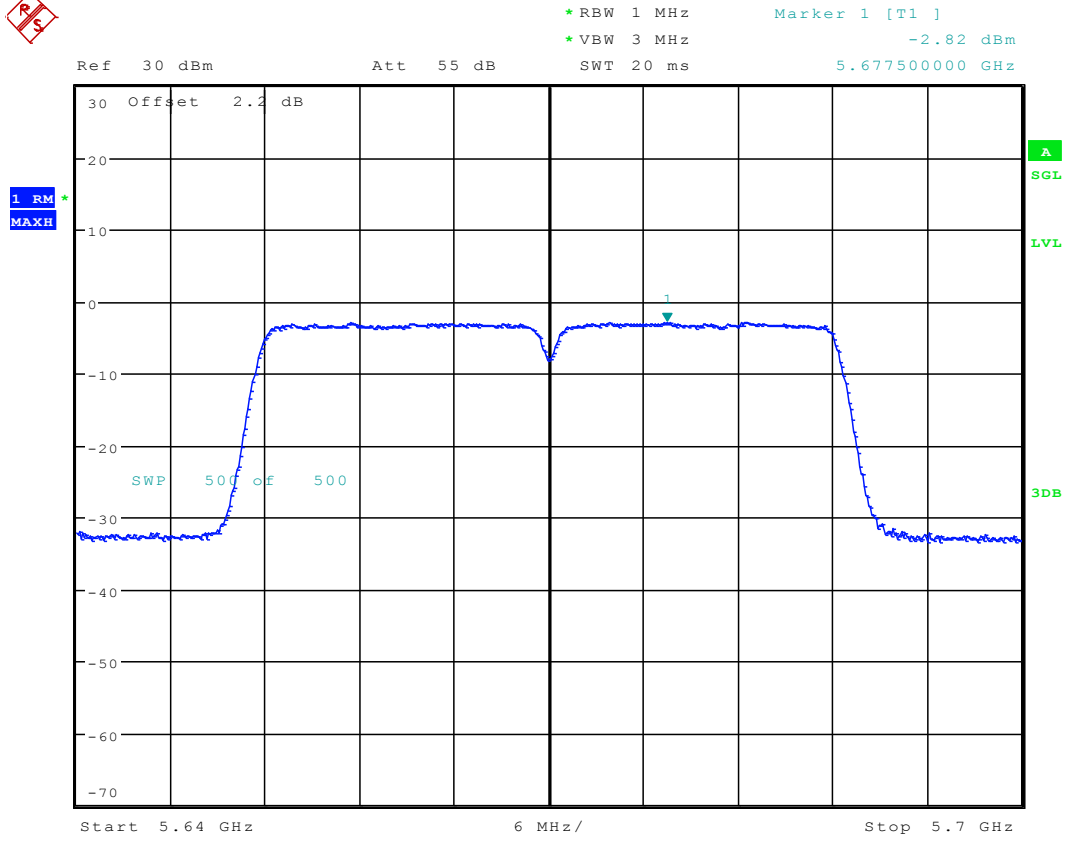
Date: 14.DEC.2016 15:16:01

## 10.37 11AC40\_102 Ant 1



Date: 14.DEC.2016 15:19:48

## 10.38 11AC40\_134 Ant 1

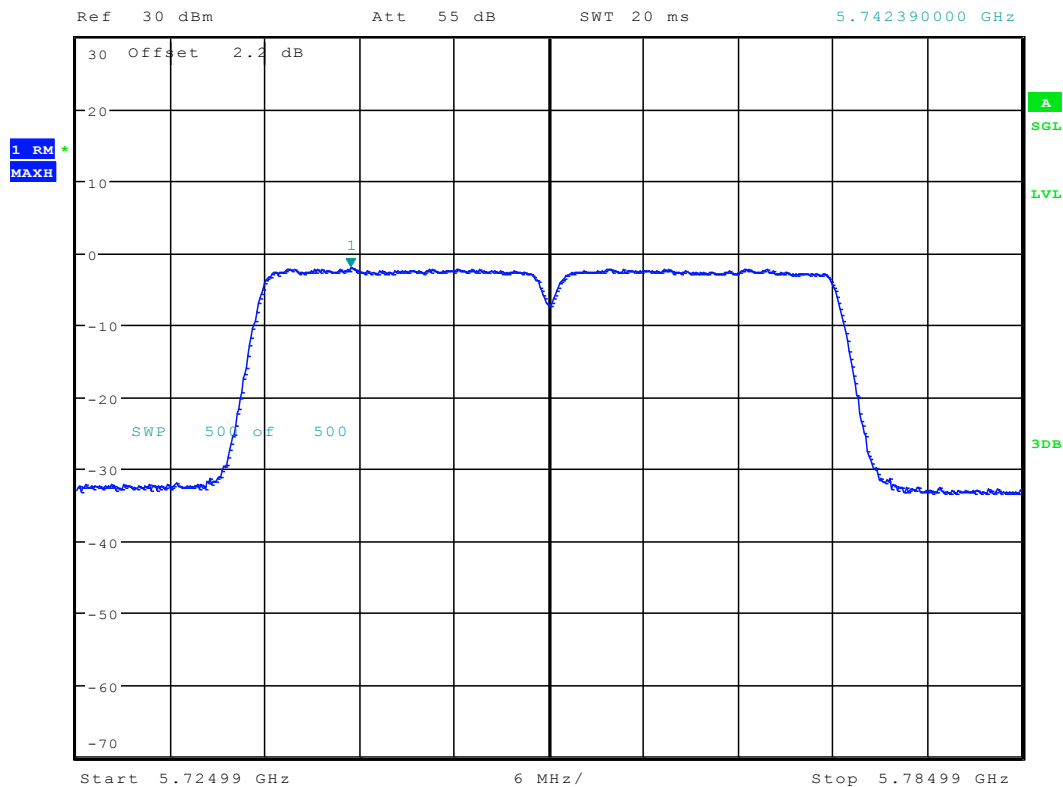


Date: 14.DEC.2016 15:23:45

## 10.39 11AC40\_151 Ant 1

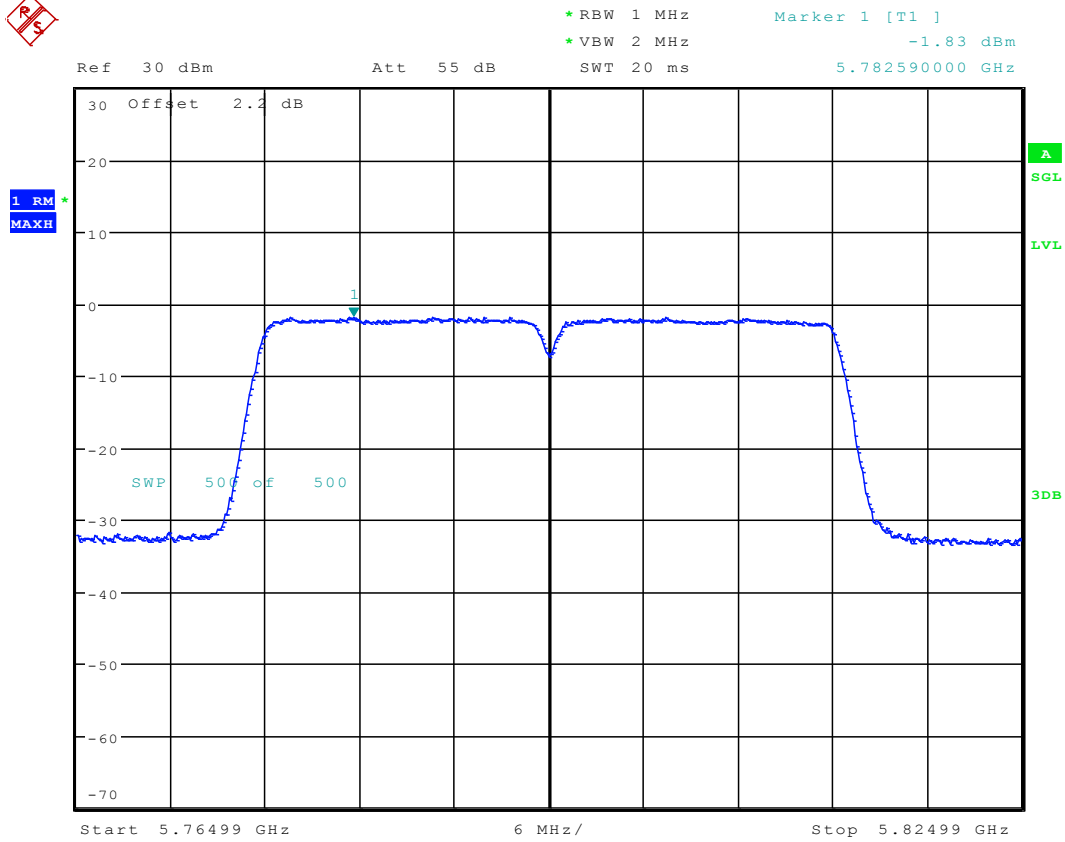


\*RBW 1 MHz      Marker 1 [T1 ]  
 \*VBW 2 MHz      -2.06 dBm  
 SWT 20 ms      5.742390000 GHz



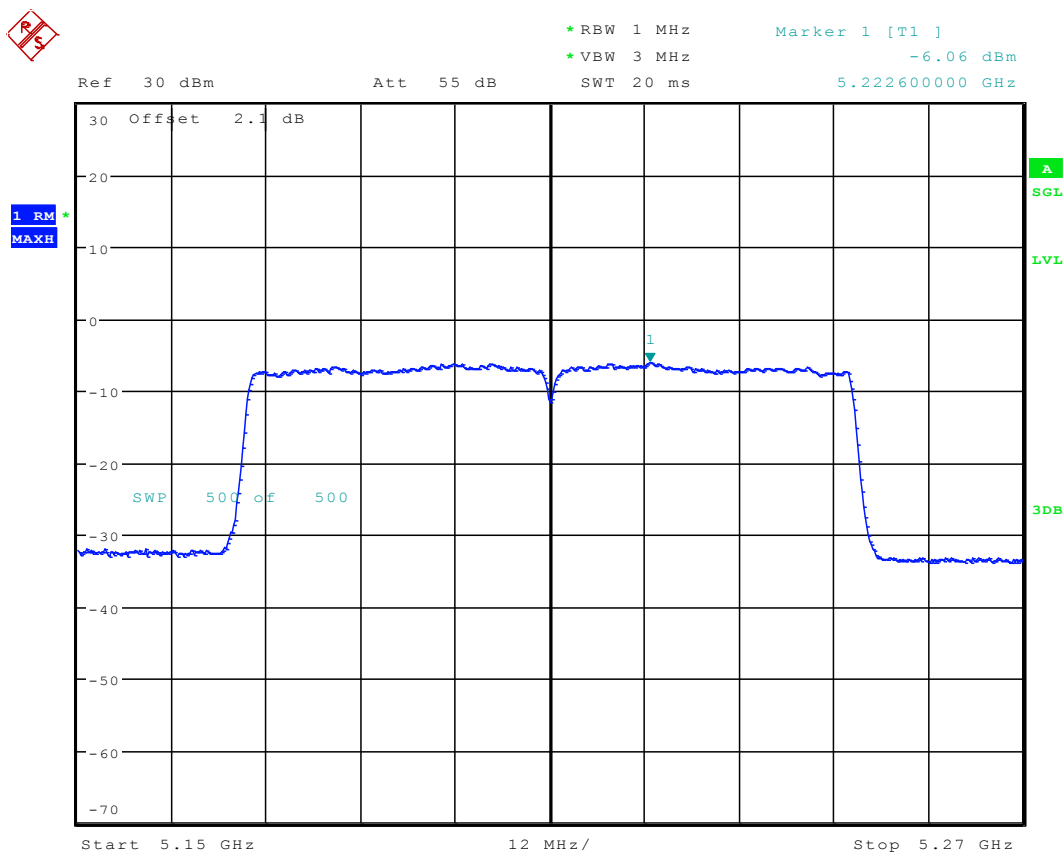
Date: 14.DEC.2016 14:57:12

## 10.40 11AC40\_159 Ant 1



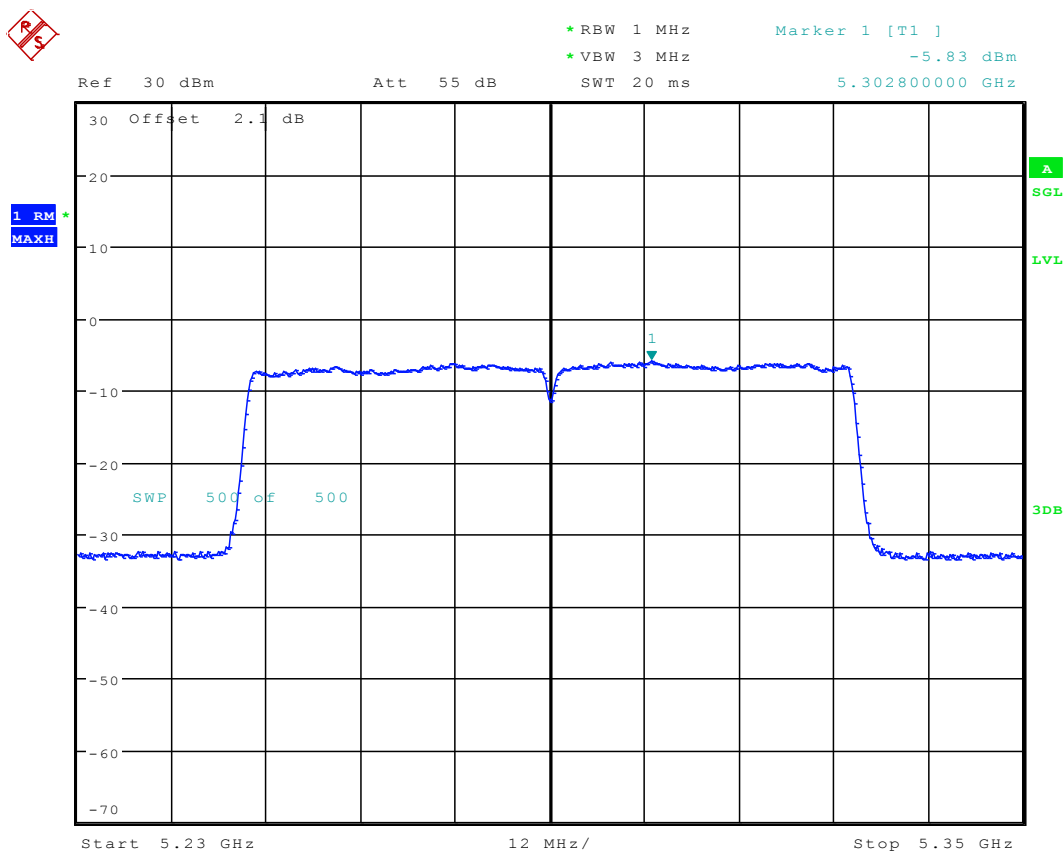
Date: 14.DEC.2016 15:01:29

# 10.41 11AC80\_42 Ant 1



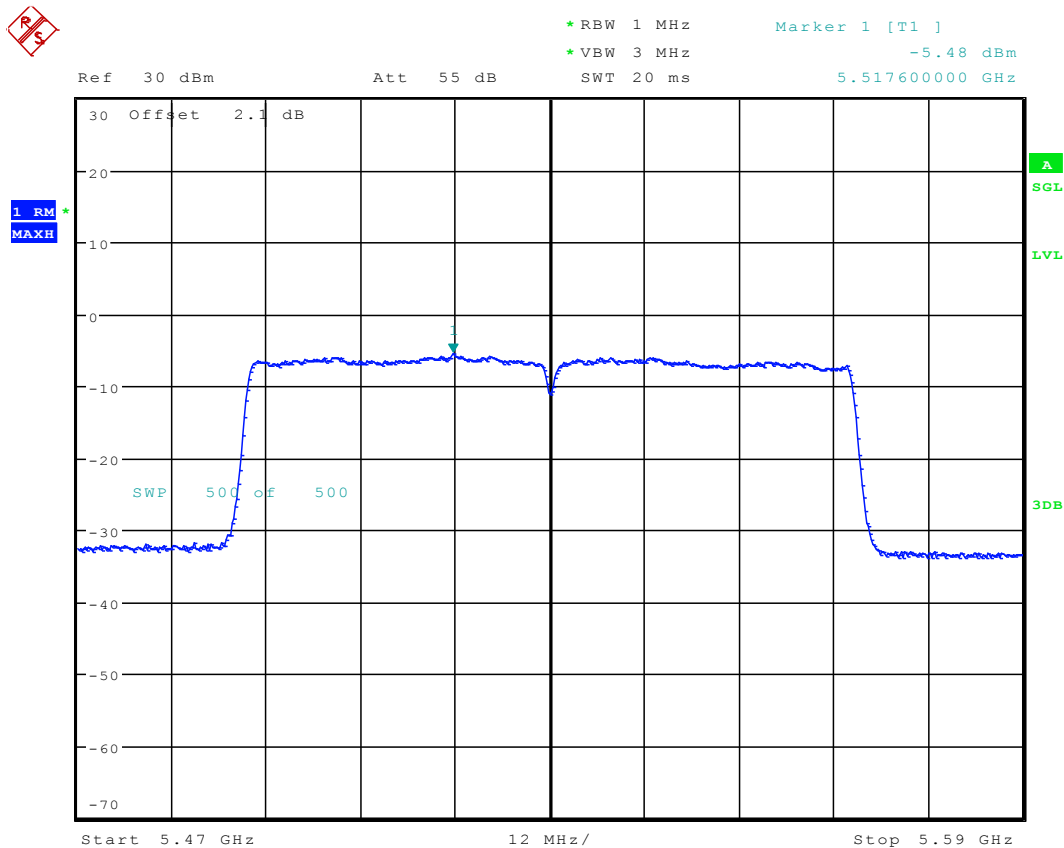
Date: 14.DEC.2016 15:32:19

## 10.42 11AC80\_58 Ant 1



Date: 14.DEC.2016 15:35:43

## 10.43 11AC80\_106 Ant 1



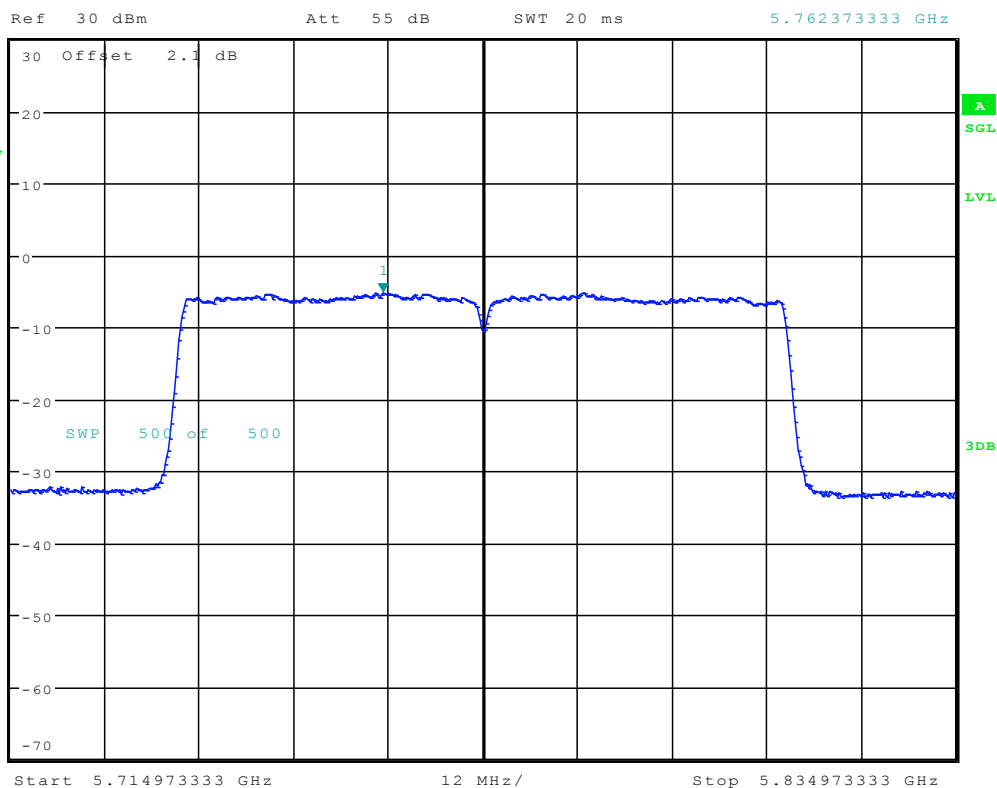
Date: 14.DEC.2016 15:39:36

## 10.44 11AC80\_155 Ant 1



\* RBW 1 MHz  
 \* VBW 2 MHz  
 SWT 20 ms

Marker 1 [T1]  
 -5.20 dBm  
 5.762373333 GHz



Date: 14.DEC.2016 15:44:26

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

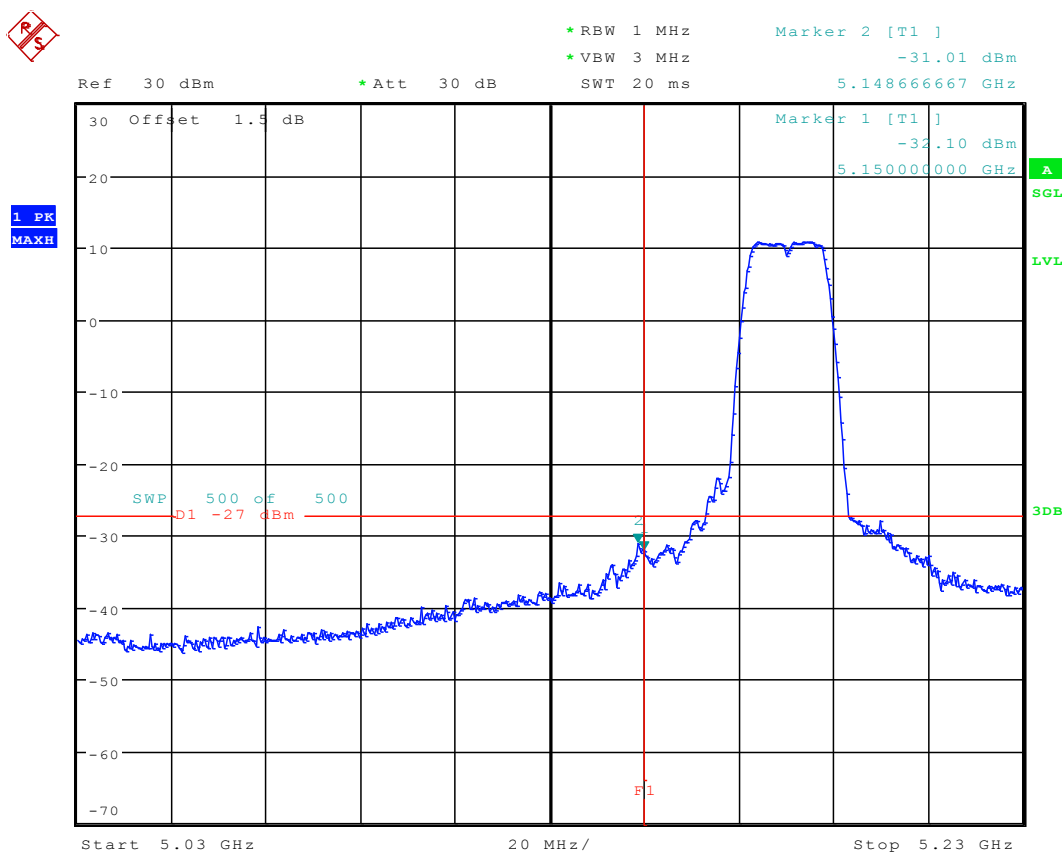


## 11 Result Table

| 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   |

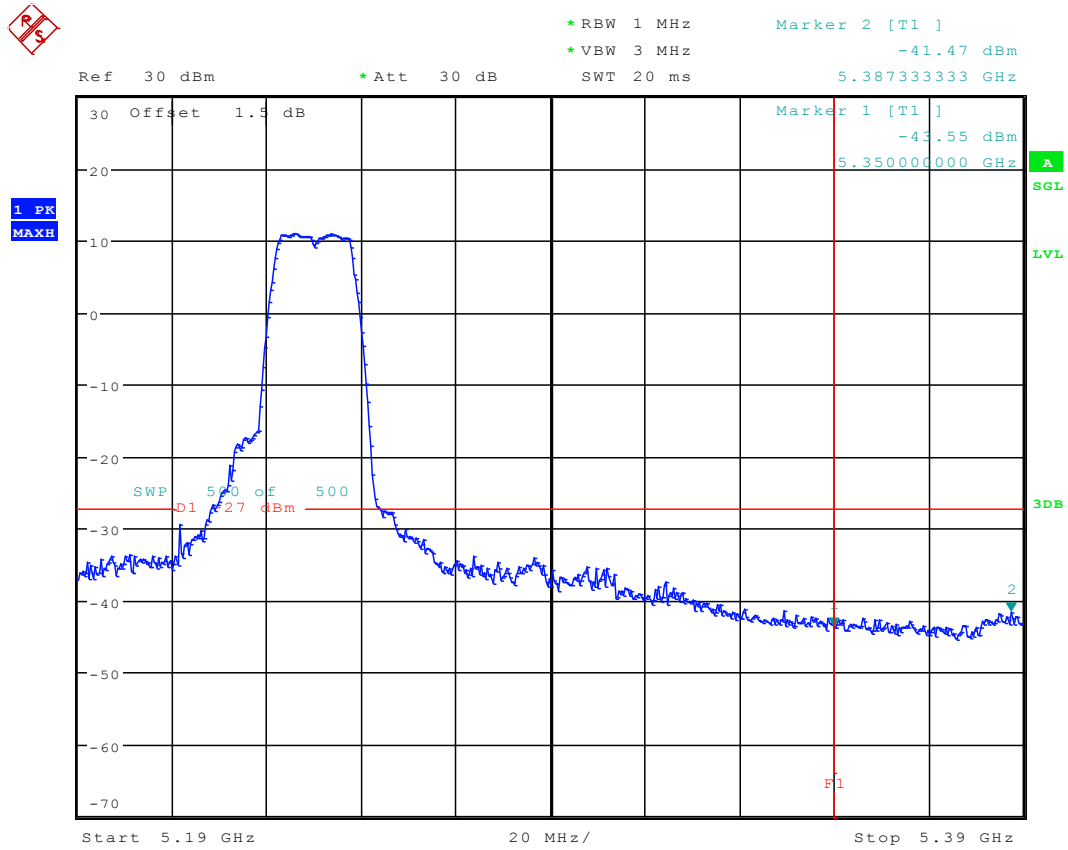
## 12 Test Plot

### 12.1 11A\_36 Ant 1



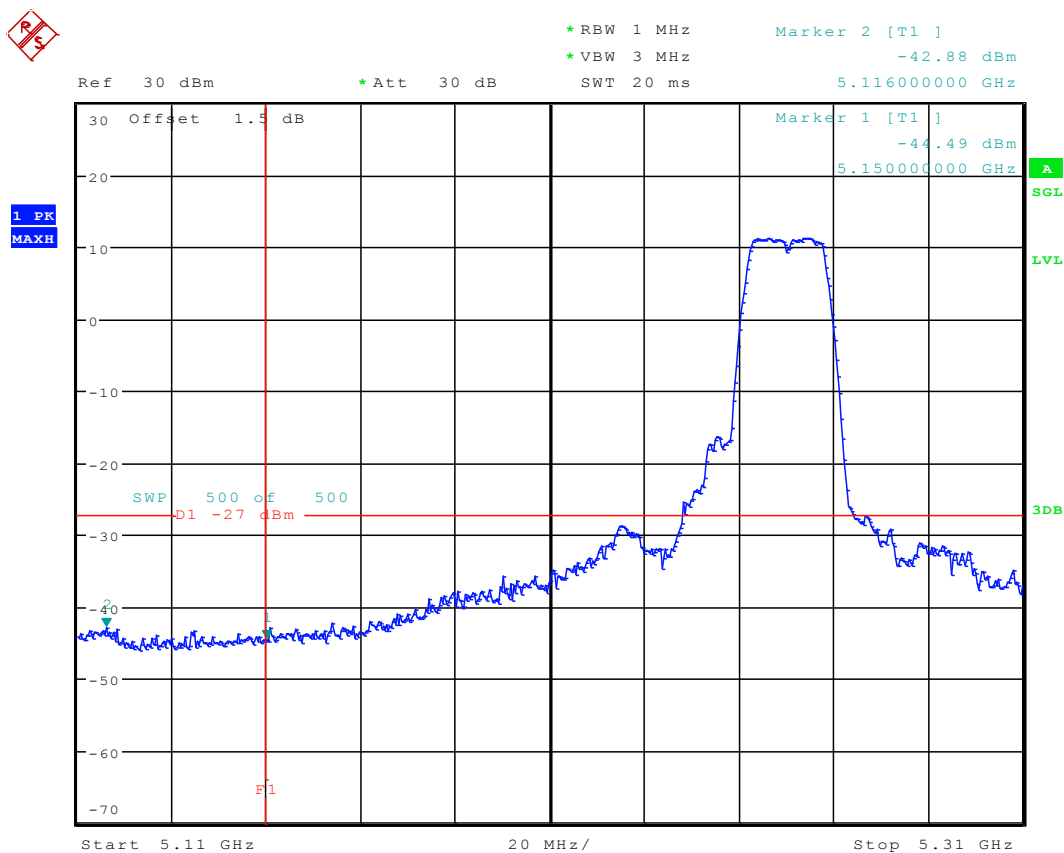
Date: 5.DEC.2016 11:32:39

## 12.2 11A\_48 Ant 1



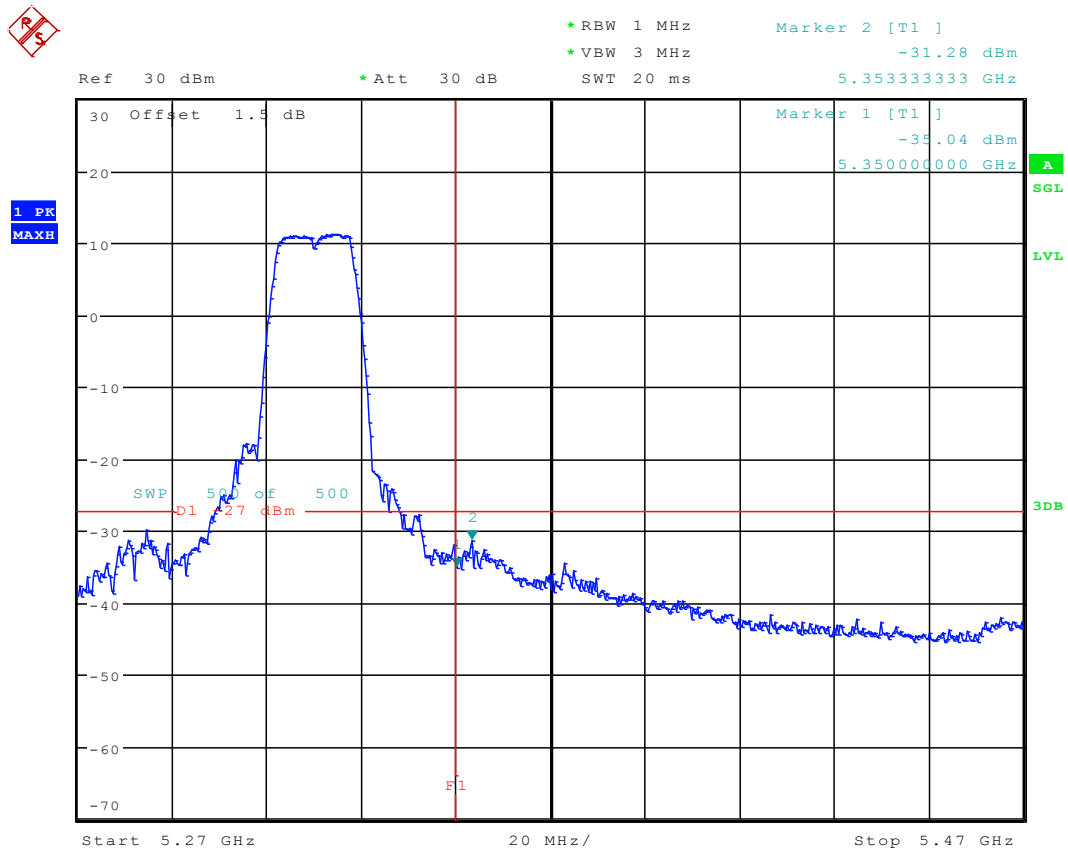
Date: 5.DEC.2016 11:38:09

## 12.3 11A\_52 Ant 1



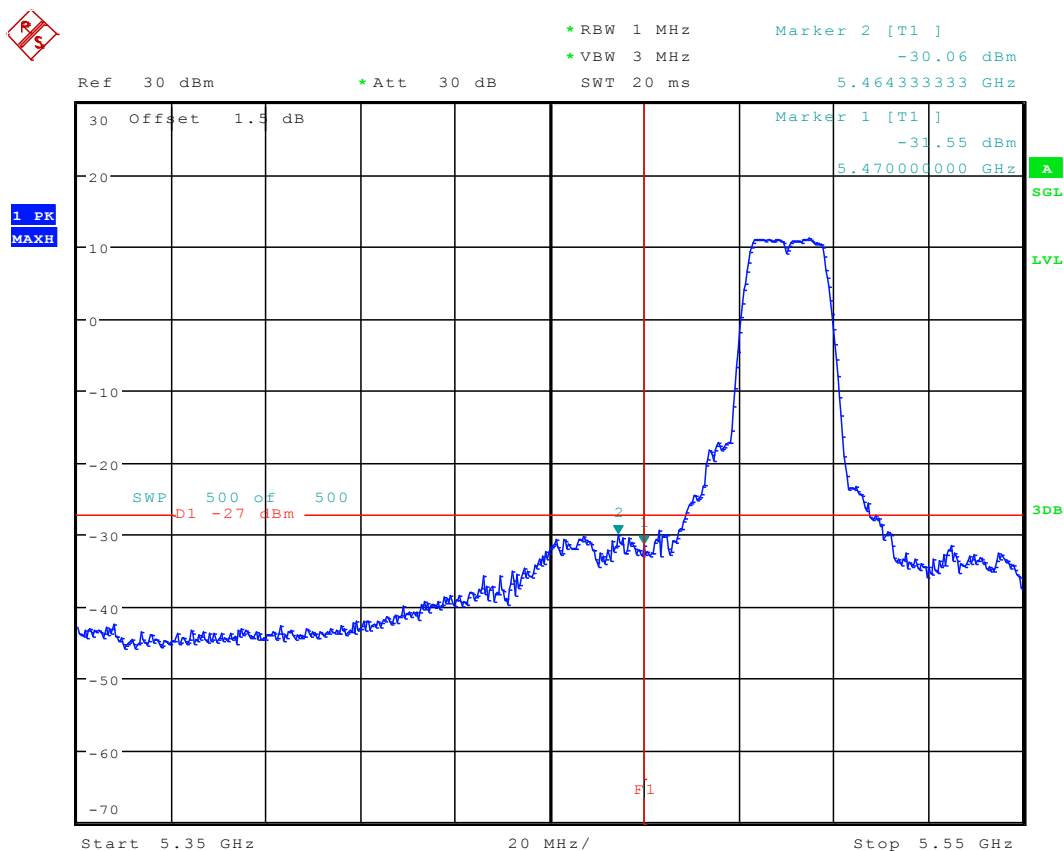
Date: 5.DEC.2016 11:46:45

## 12.4 11A\_64 Ant 1



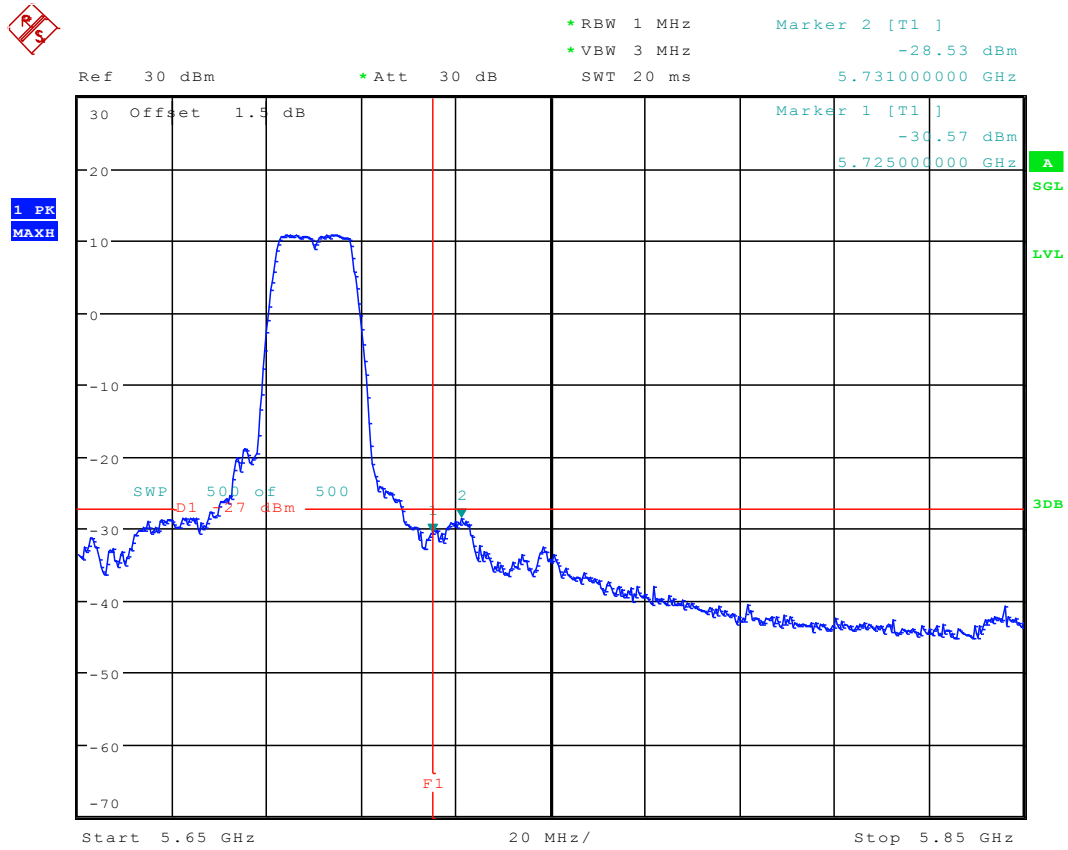
Date: 5.DEC.2016 11:51:59

## 12.5 11A\_100 Ant 1



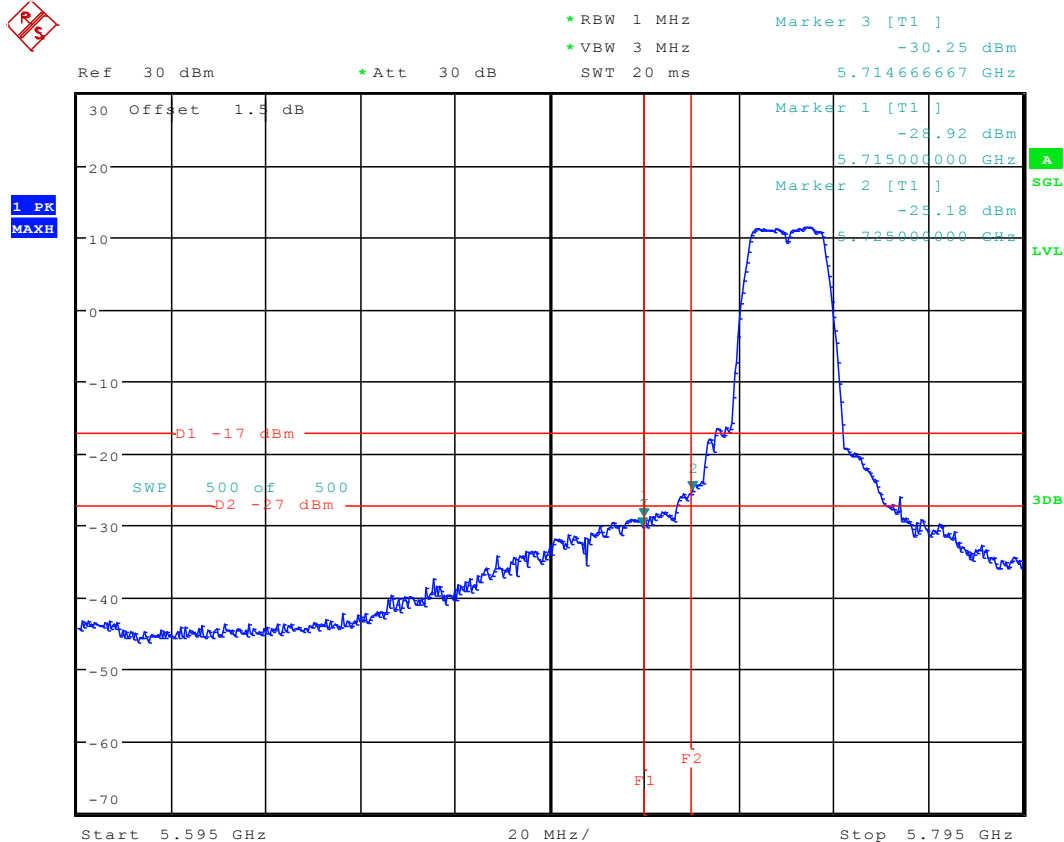
Date: 5.DEC.2016 11:58:12

## 12.6 11A\_140 Ant 1



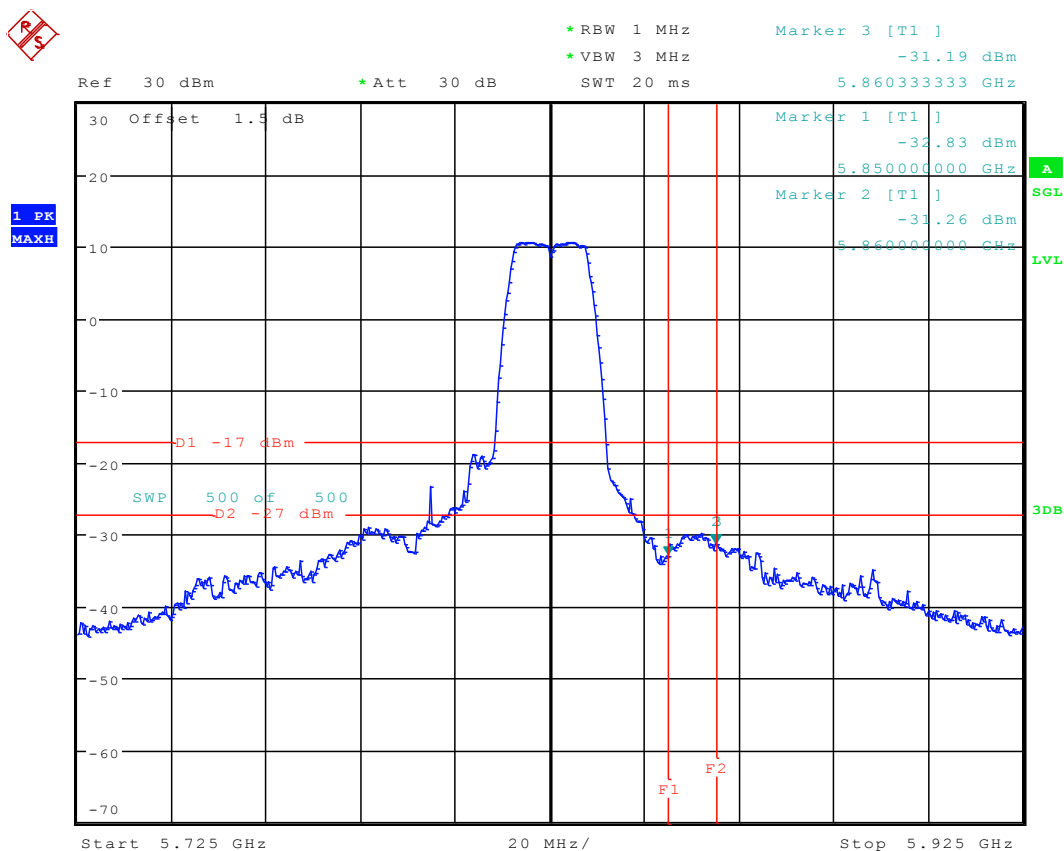
Date: 5.DEC.2016 12:03:30

## 12.7 11A\_149 Ant 1



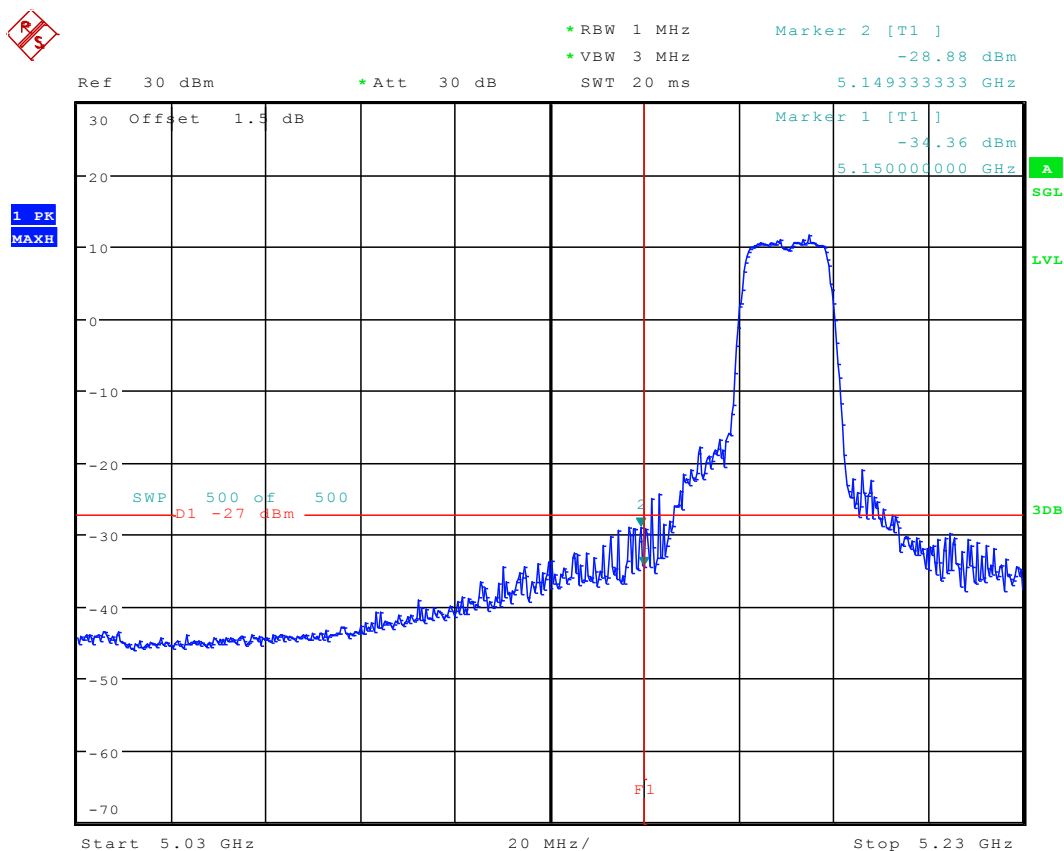
Date: 7.DEC.2016 16:08:28

## 12.8 11A\_165 Ant 1



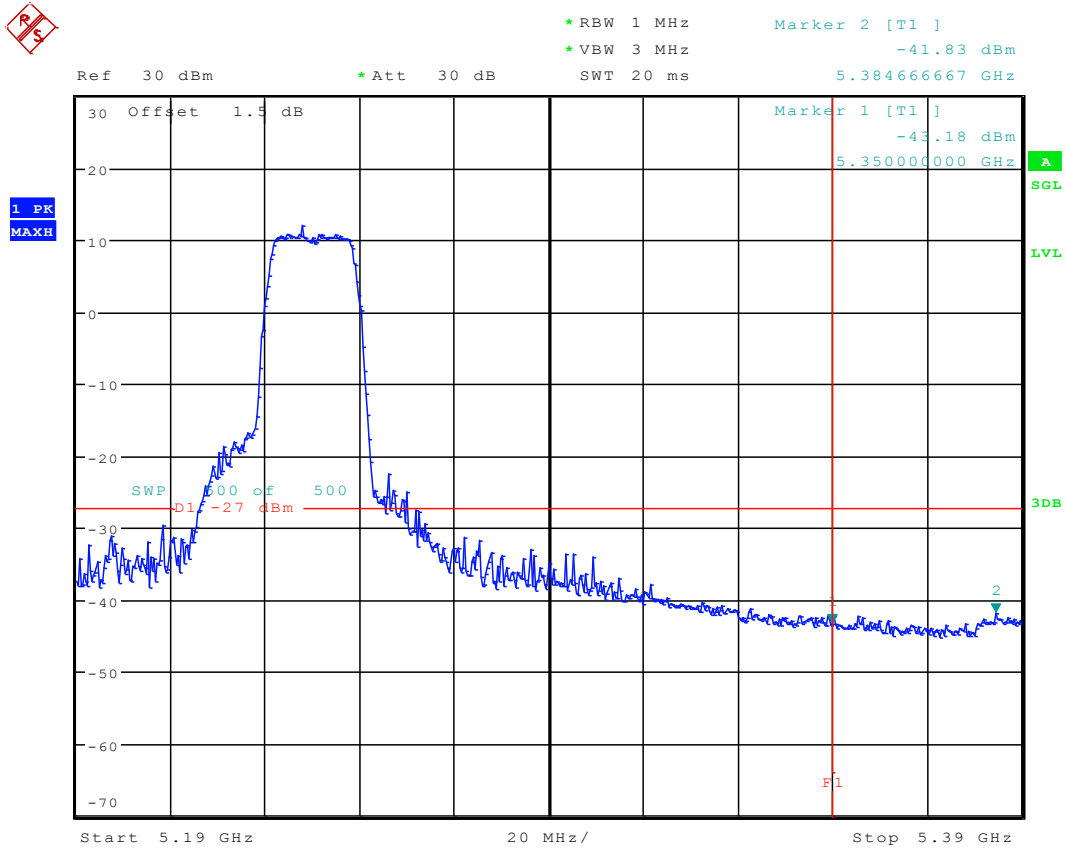
Date: 7.DEC.2016 16:13:34

## 12.9 11N20\_36 Ant 1



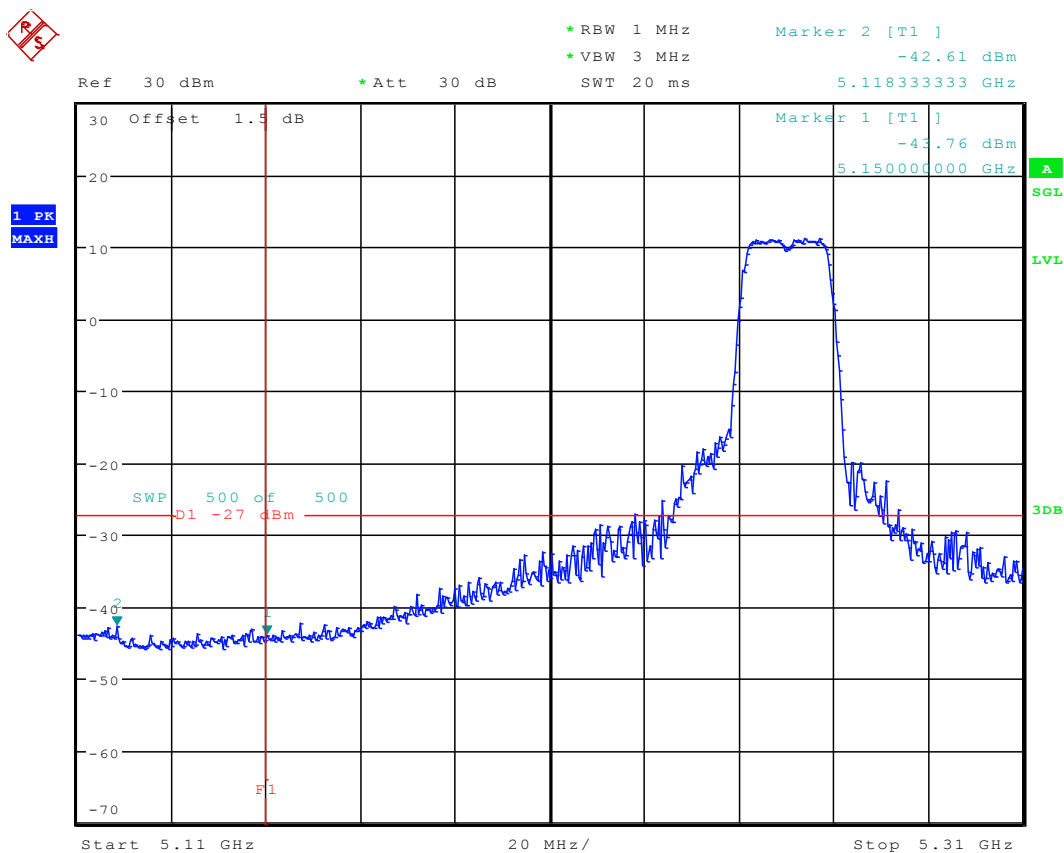
Date: 5.DEC.2016 12:25:45

## 12.10 11N20\_48 Ant 1



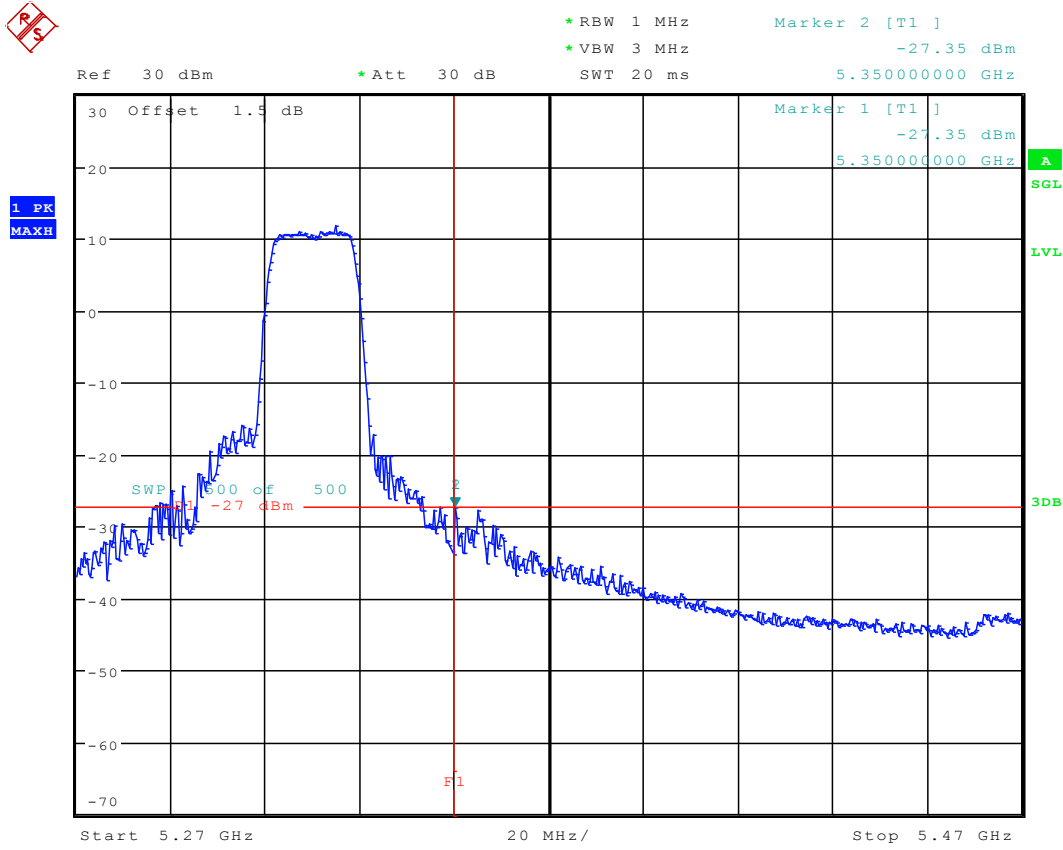
Date: 5.DEC.2016 12:32:35

## 12.11 11N20\_52 Ant 1



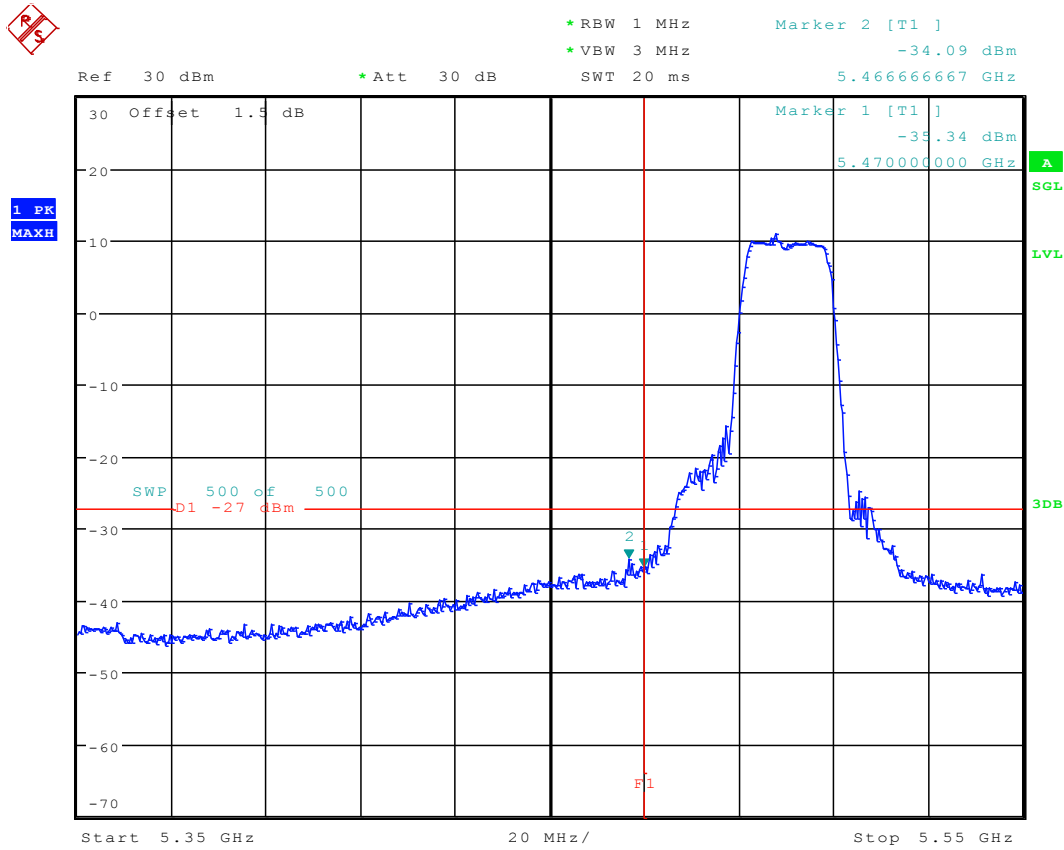
Date: 5.DEC.2016 12:37:57

## 12.12 11N20\_64 Ant 1



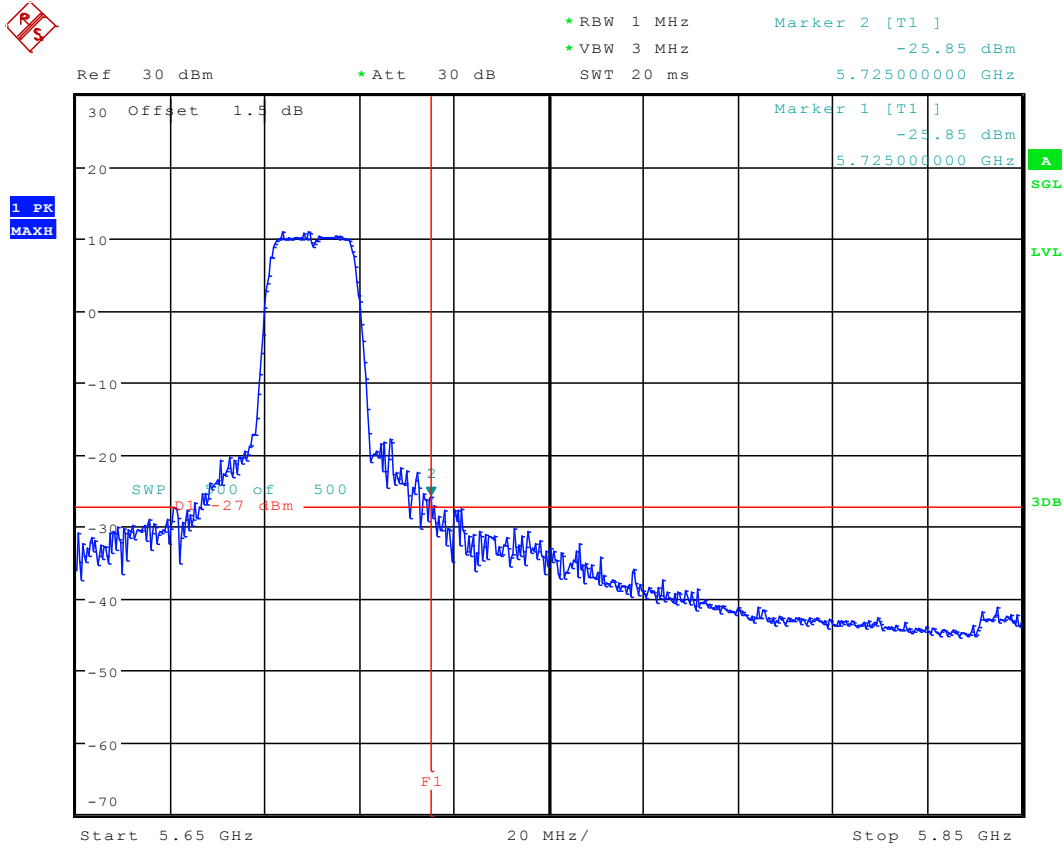
Date: 5.DEC.2016 12:43:22

### 12.13 11N20\_100 Ant 1



Date: 7.DEC.2016 17:08:48

## 12.14 11N20\_140 Ant 1

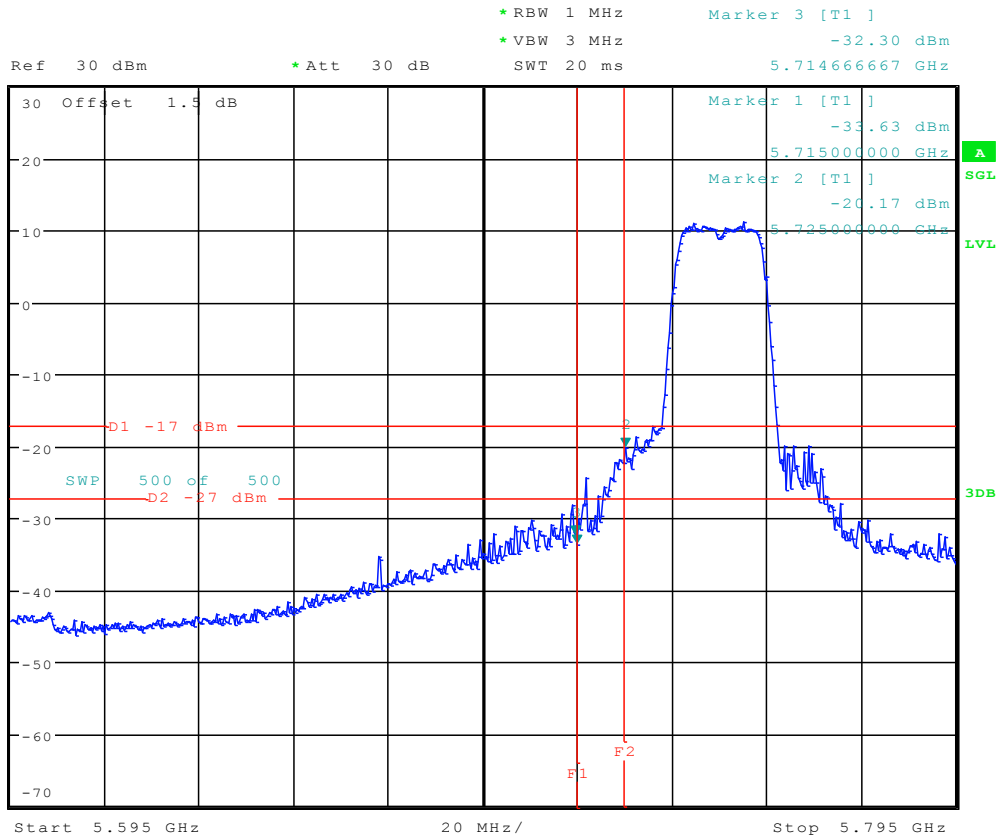


Date: 5.DEC.2016 14:43:56

## 12.15 11N20\_149 Ant 1

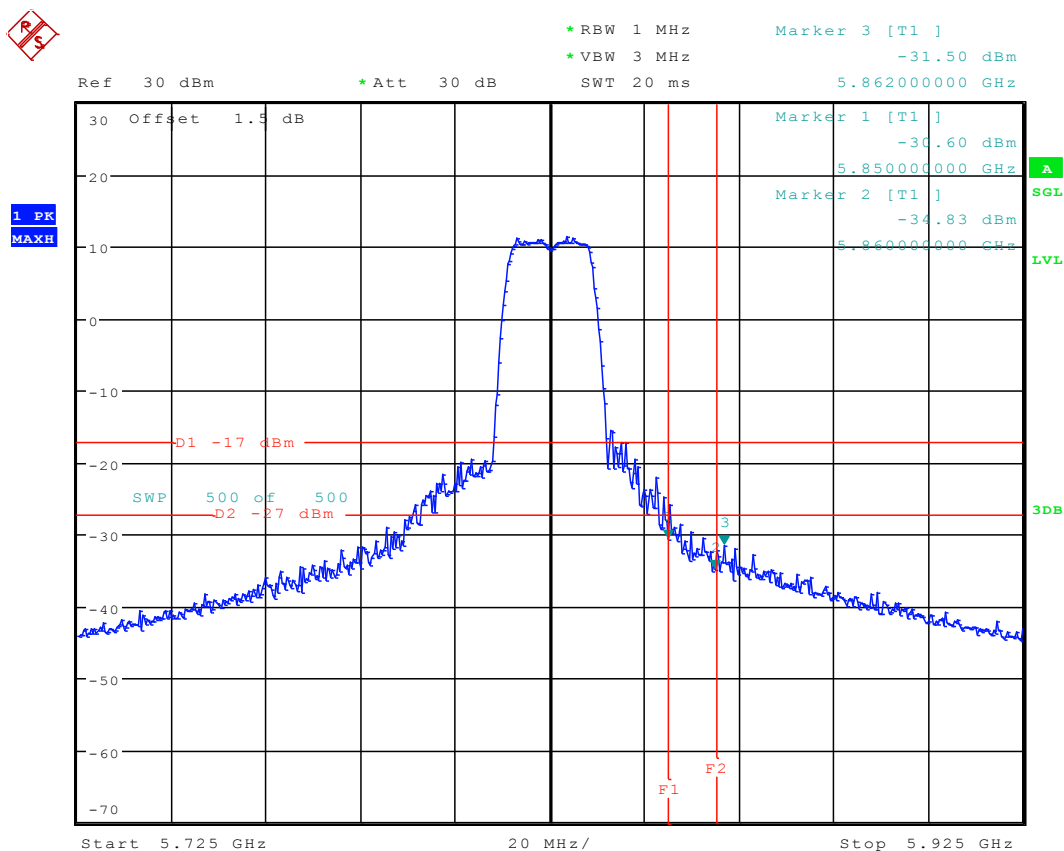


1 PK  
MAXH



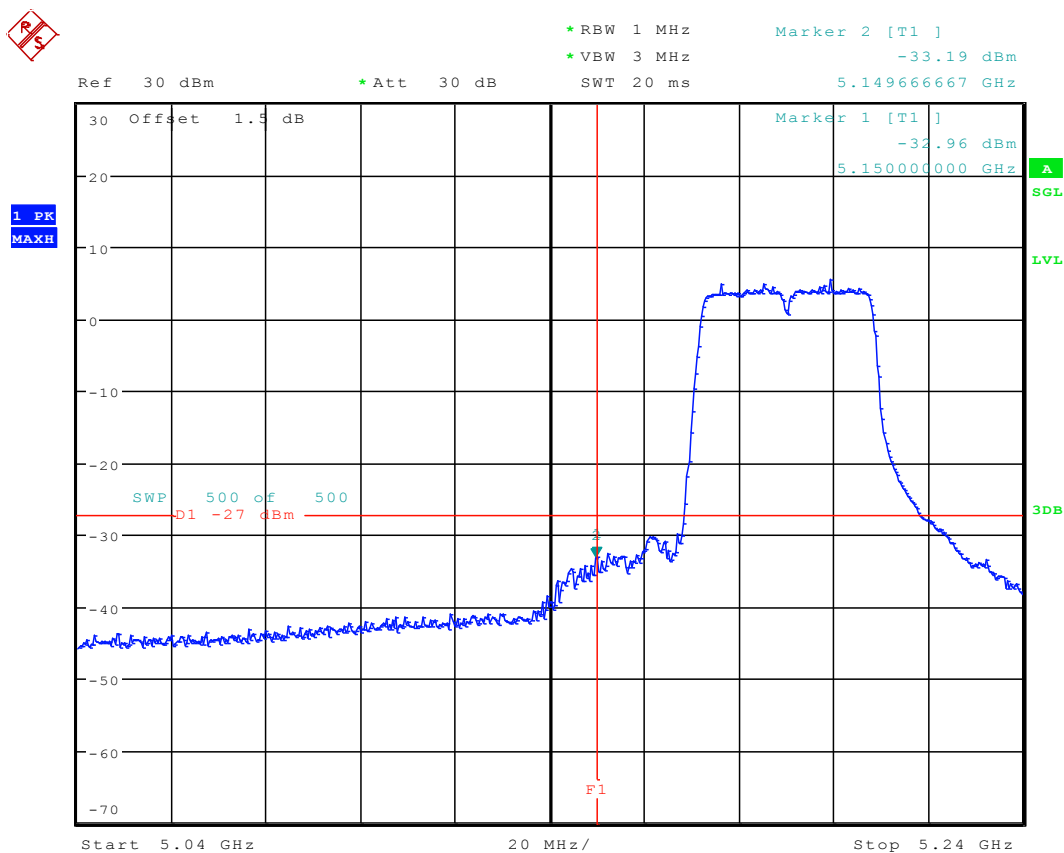
Date: 5.DEC.2016 14:29:34

## 12.16 11N20\_165 Ant 1



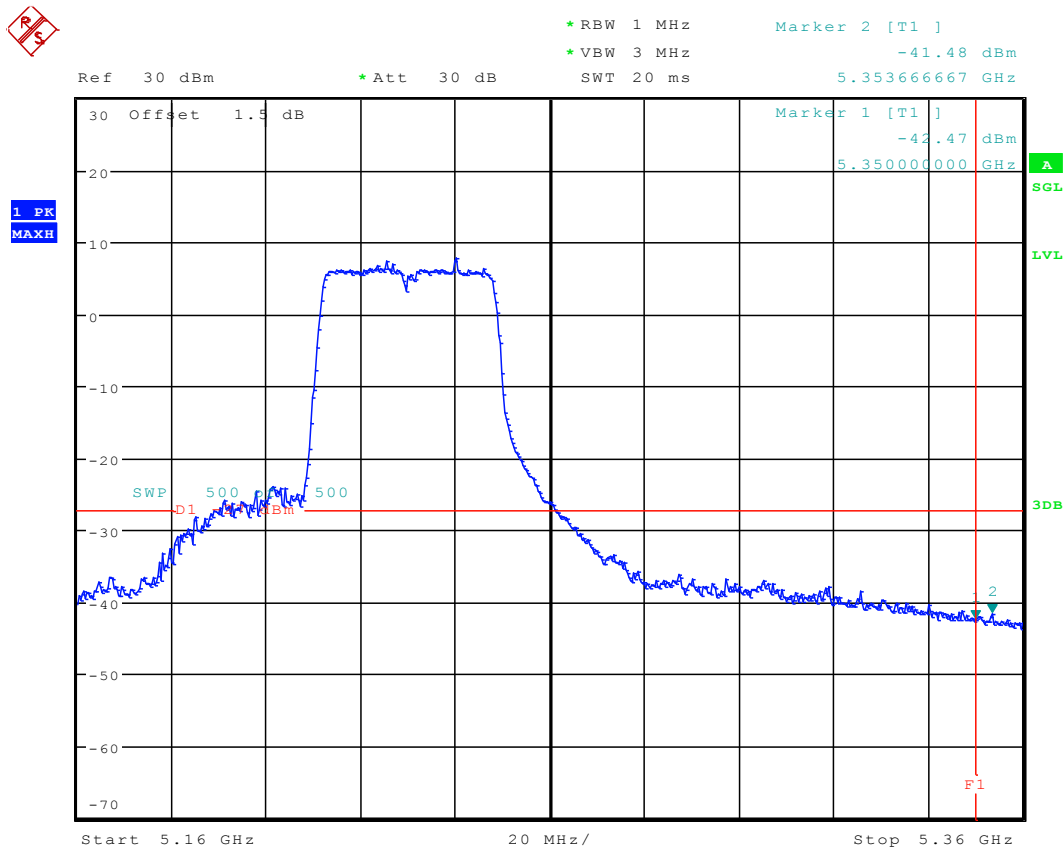
Date: 5.DEC.2016 14:38:22

## 12.17 11N40\_38 Ant 1



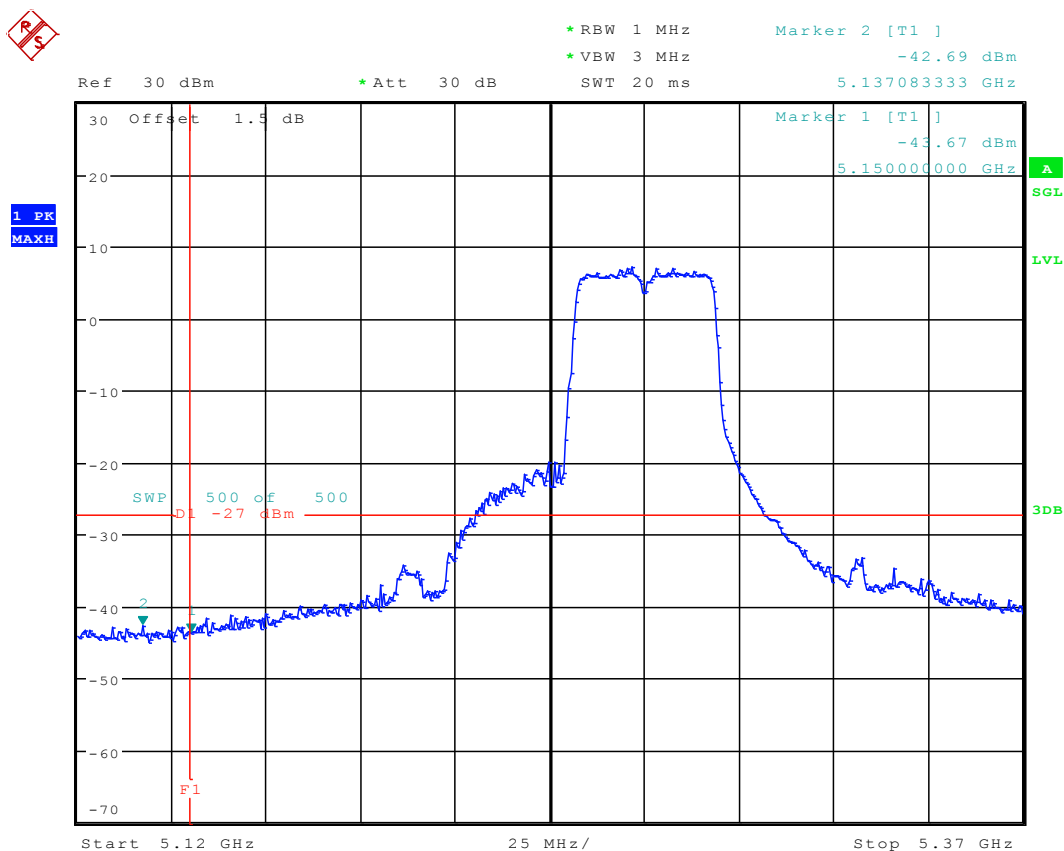
Date: 14.DEC.2016 20:46:08

## 12.18 11N40\_46 Ant 1



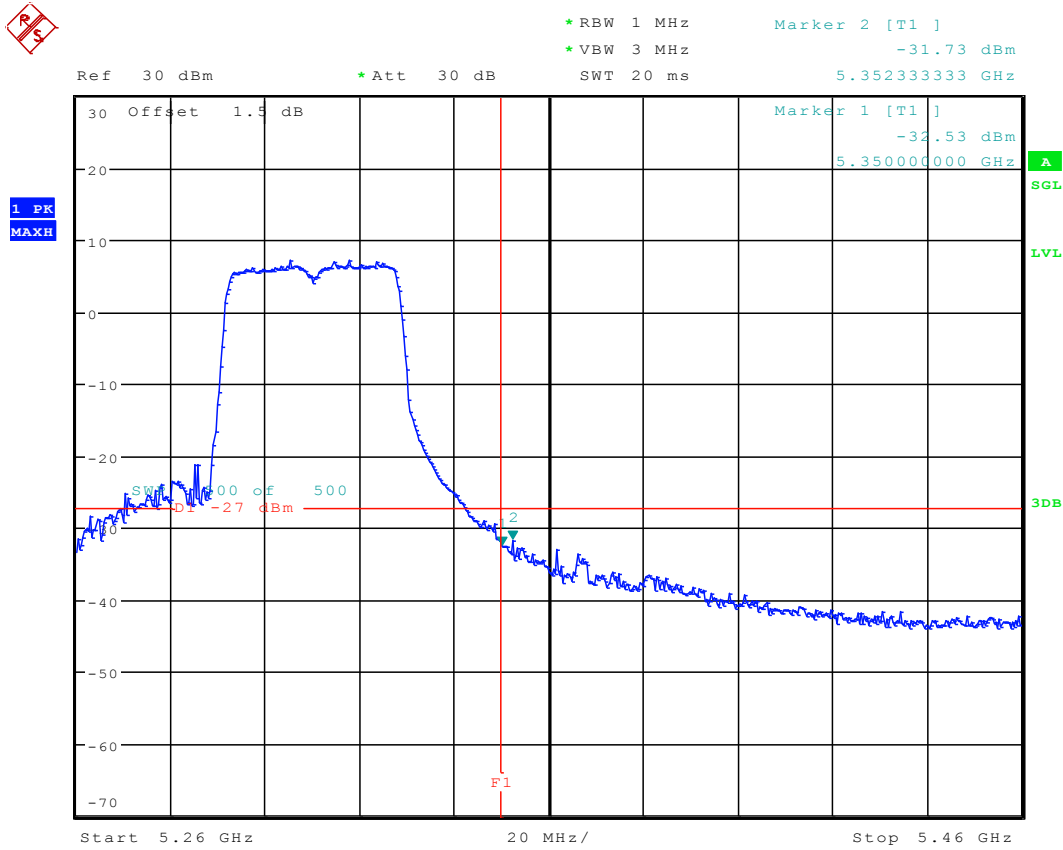
Date: 5.DEC.2016 14:58:15

## 12.19 11N40\_54 Ant 1



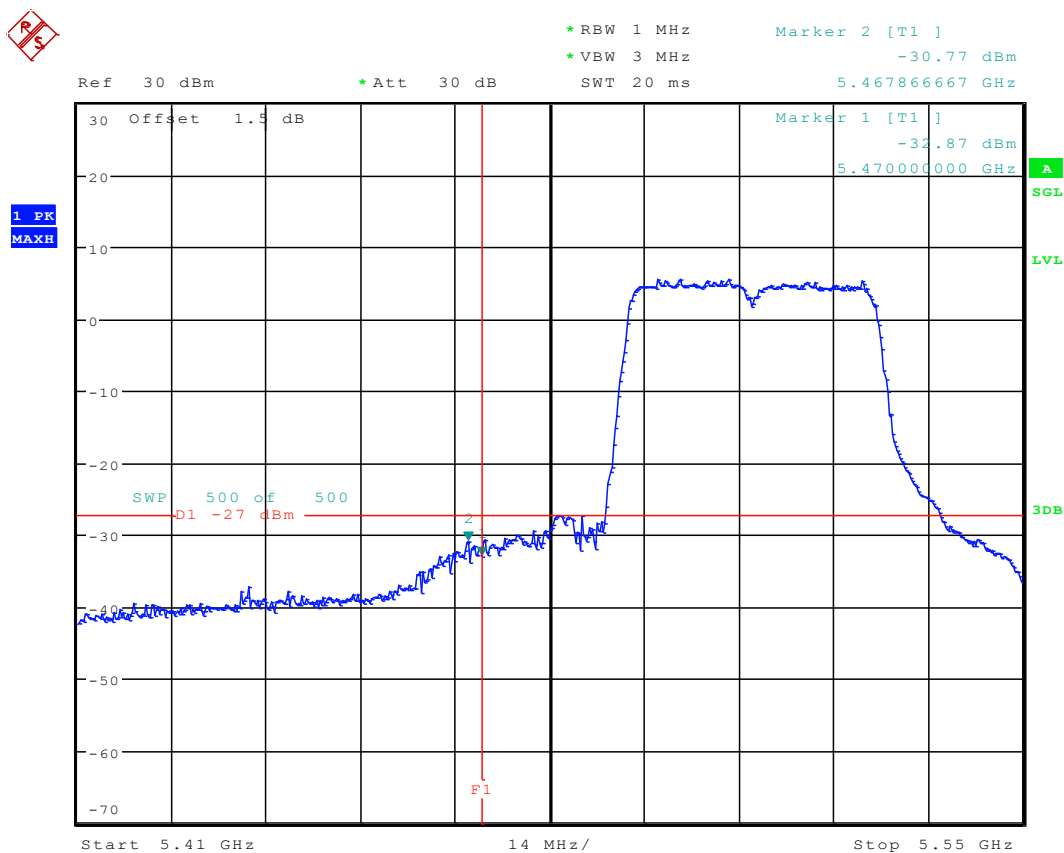
Date: 5.DEC.2016 15:03:19

## 12.20 11N40\_62 Ant 1



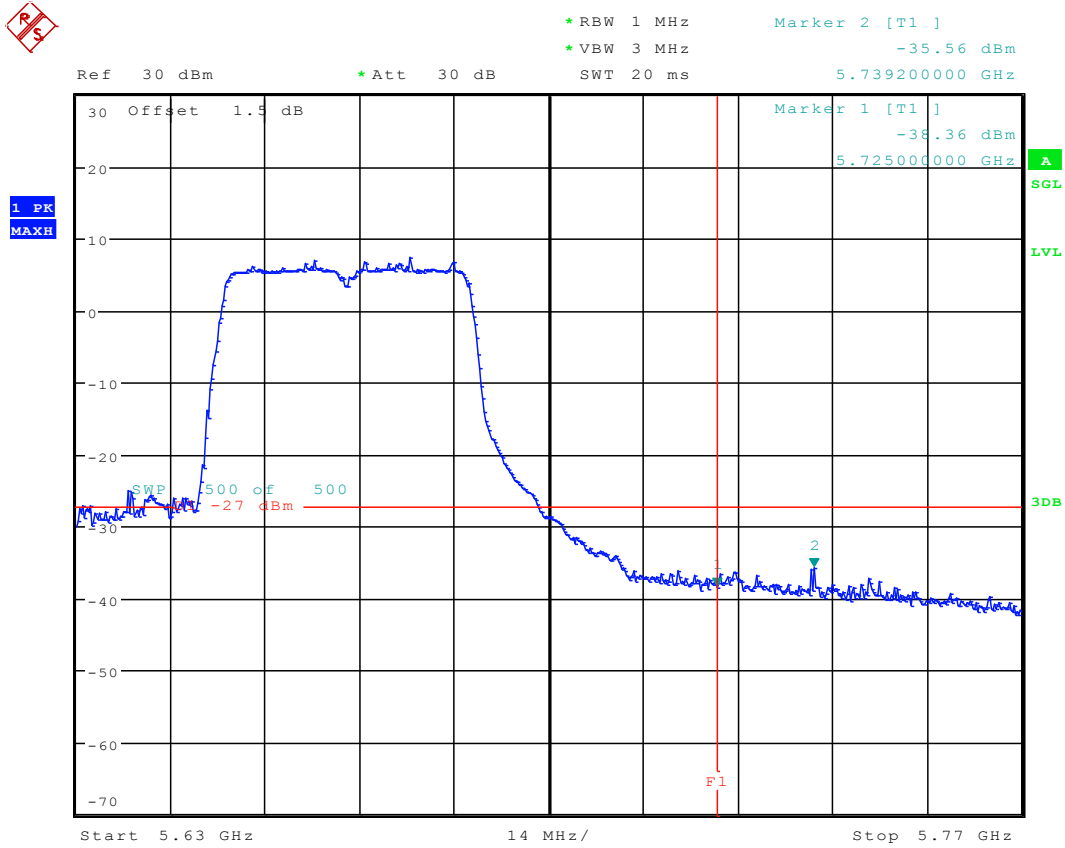
Date: 5.DEC.2016 15:08:01

# 12.21 11N40\_102 Ant 1



Date: 14.DEC.2016 20:47:25

## 12.22 11N40\_134 Ant 1

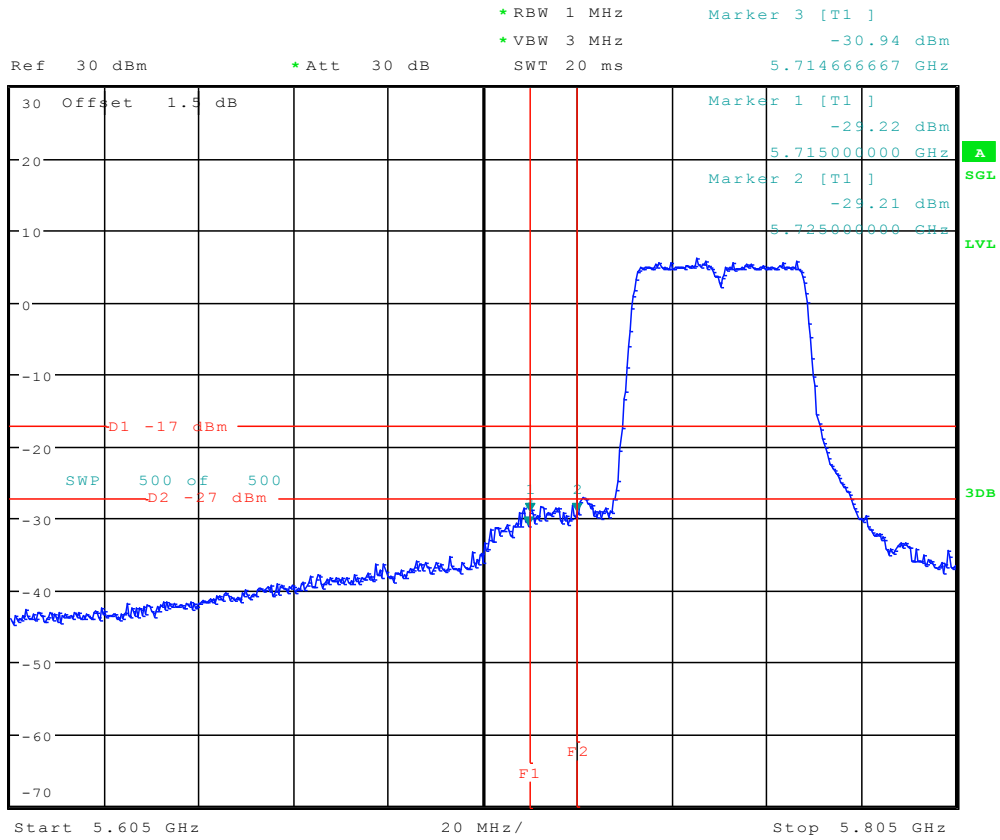


Date: 5.DEC.2016 15:14:50

# 12.23 11N40\_151 Ant 1

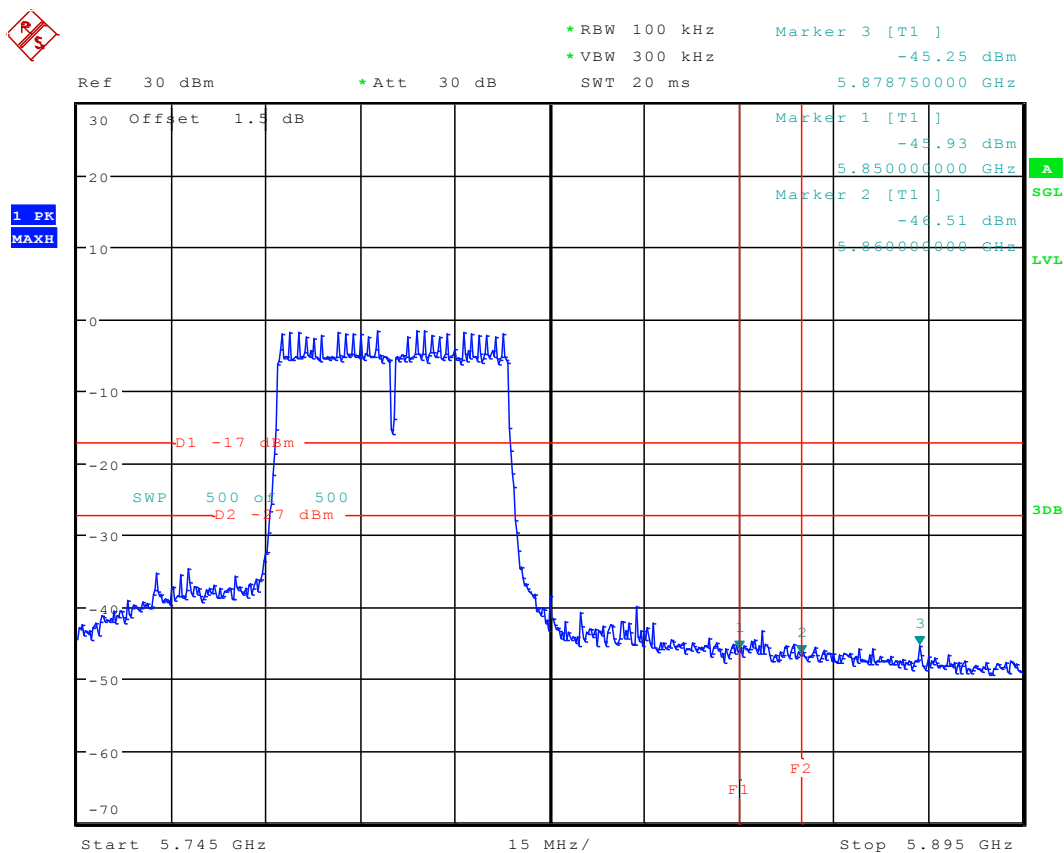


1 PK  
MAXH



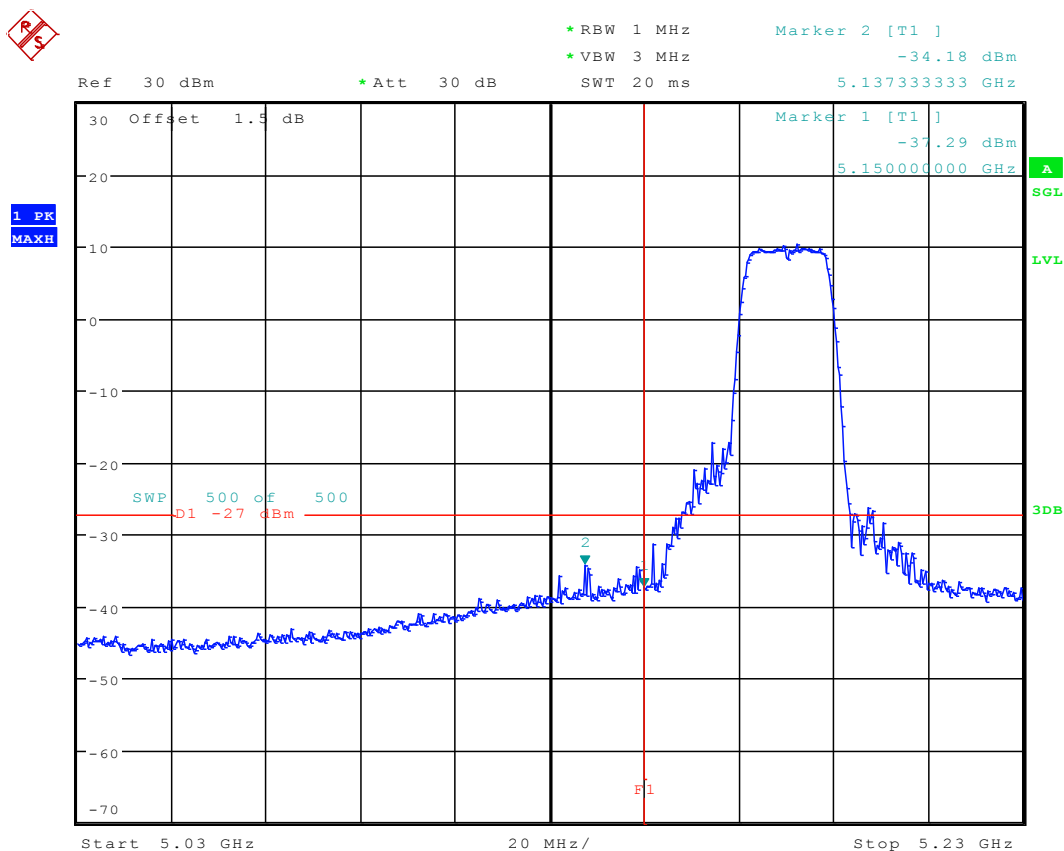
Date: 14.DEC.2016 20:50:14

## 12.24 11N40\_159 Ant 1



Date: 5.DEC.2016 15:31:06

## 12.25 11AC20\_36 Ant 1

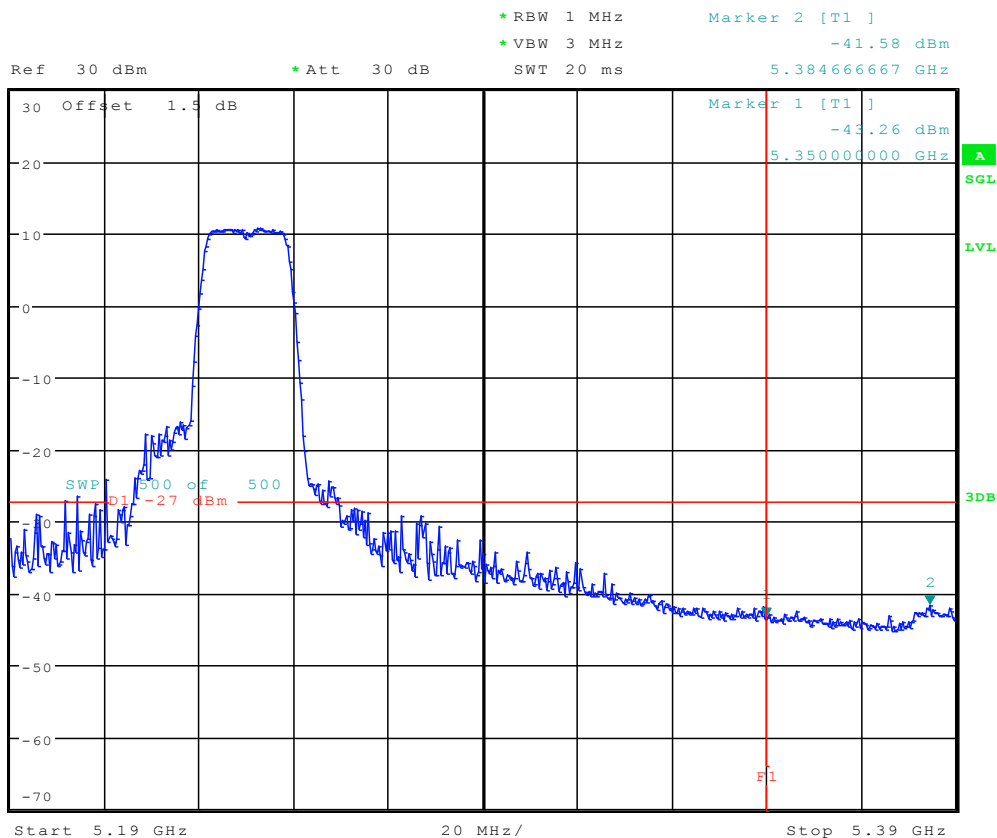


Date: 7.DEC.2016 16:26:51

## 12.26 11AC20\_48 Ant 1

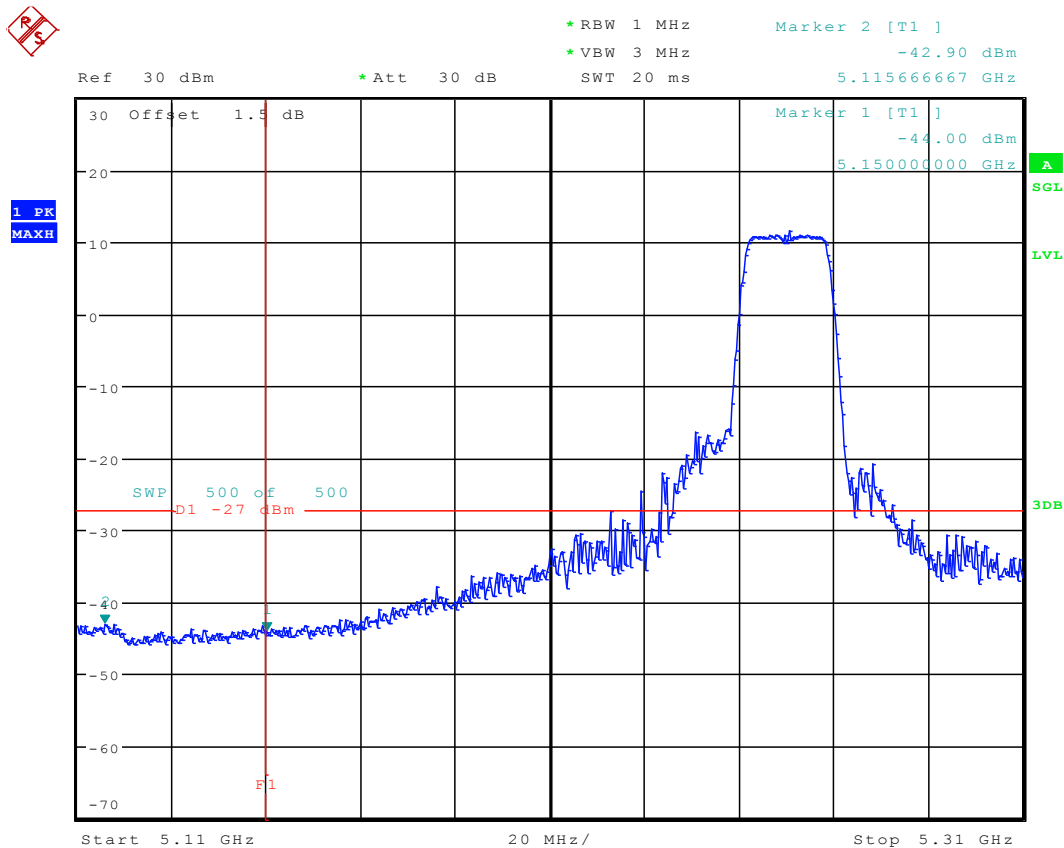


1 PK  
MAXH



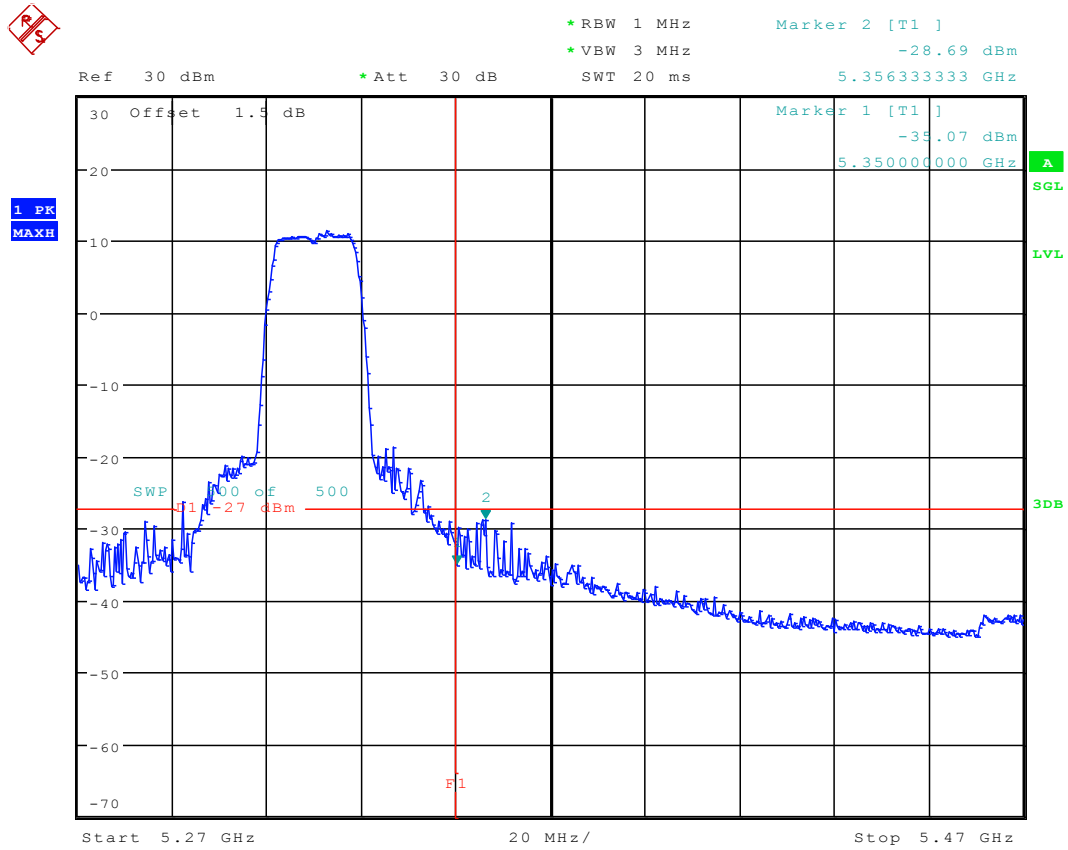
Date: 5.DEC.2016 15:51:56

## 12.27 11AC20\_52 Ant 1



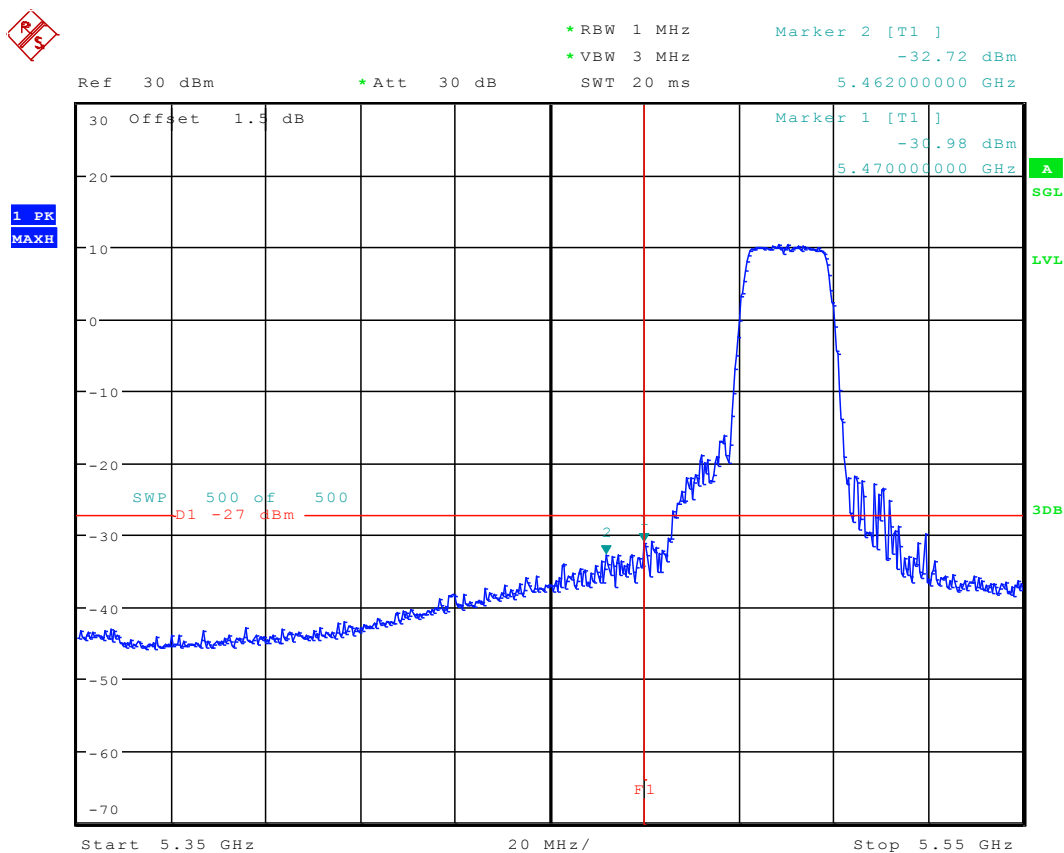
Date: 5.DEC.2016 15:57:04

## 12.28 11AC20\_64 Ant 1



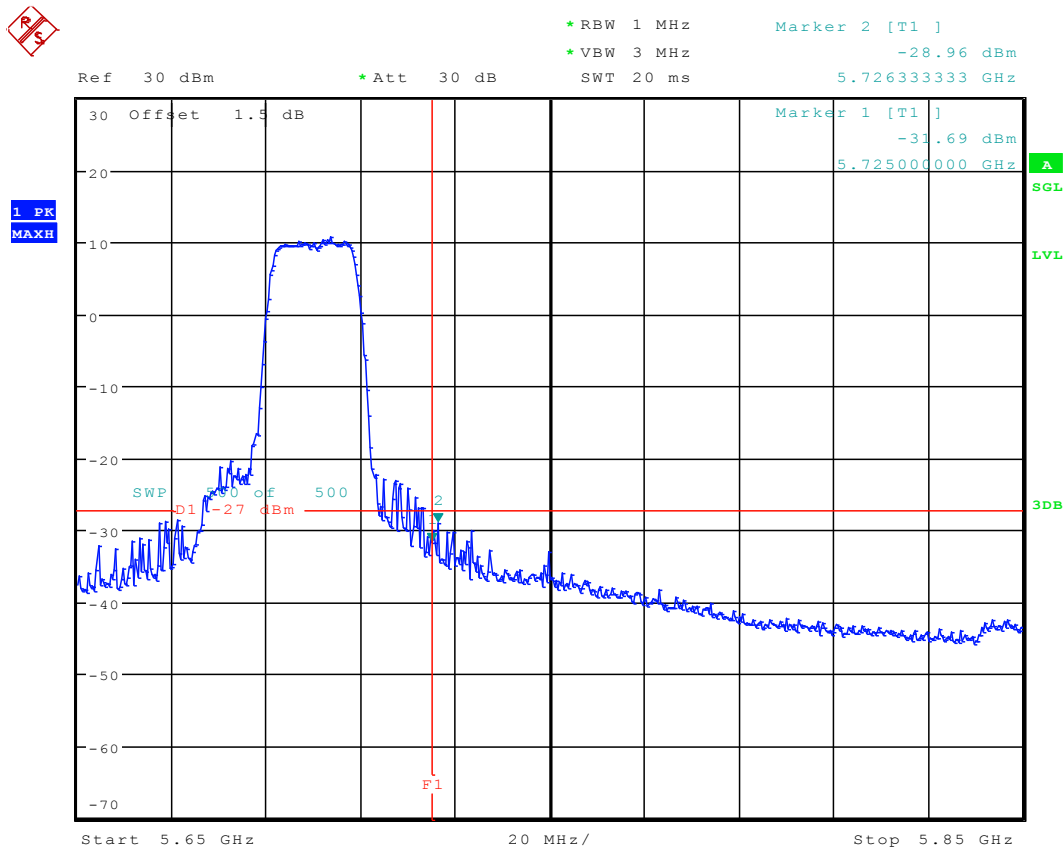
Date: 5.DEC.2016 16:02:35

## 12.29 11AC20\_100 Ant 1



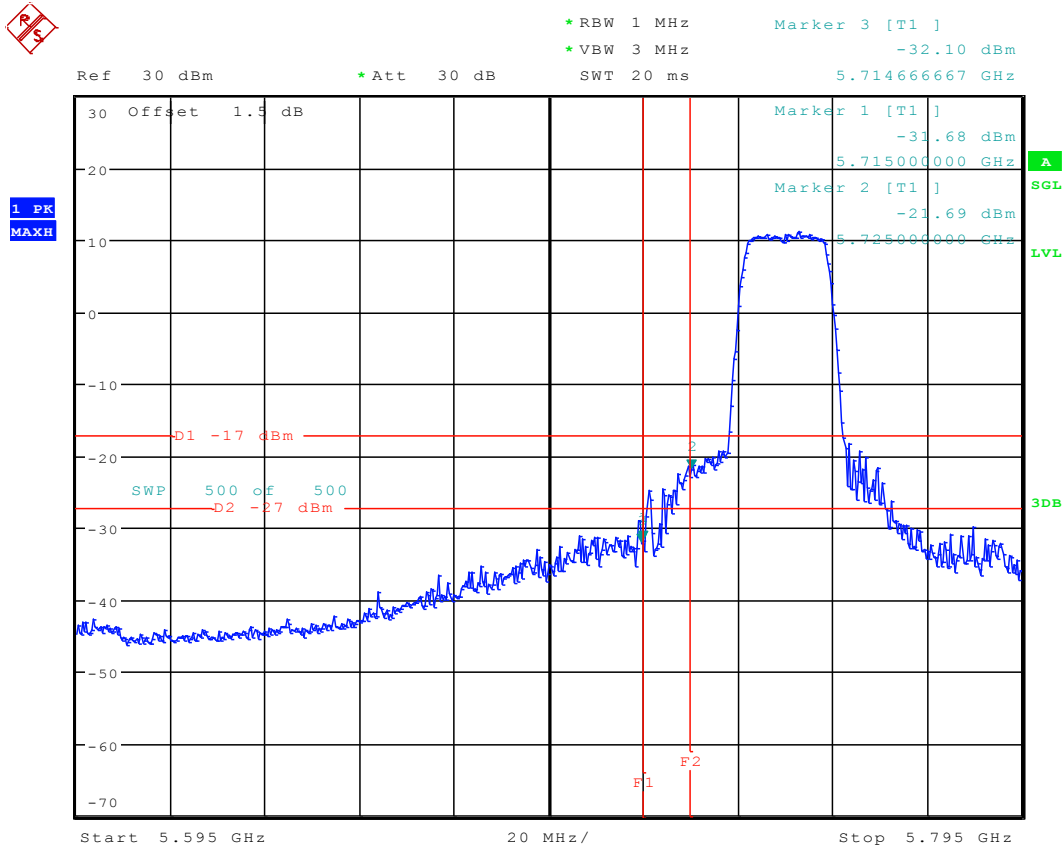
Date: 7.DEC.2016 16:38:49

## 12.30 11AC20\_140 Ant 1



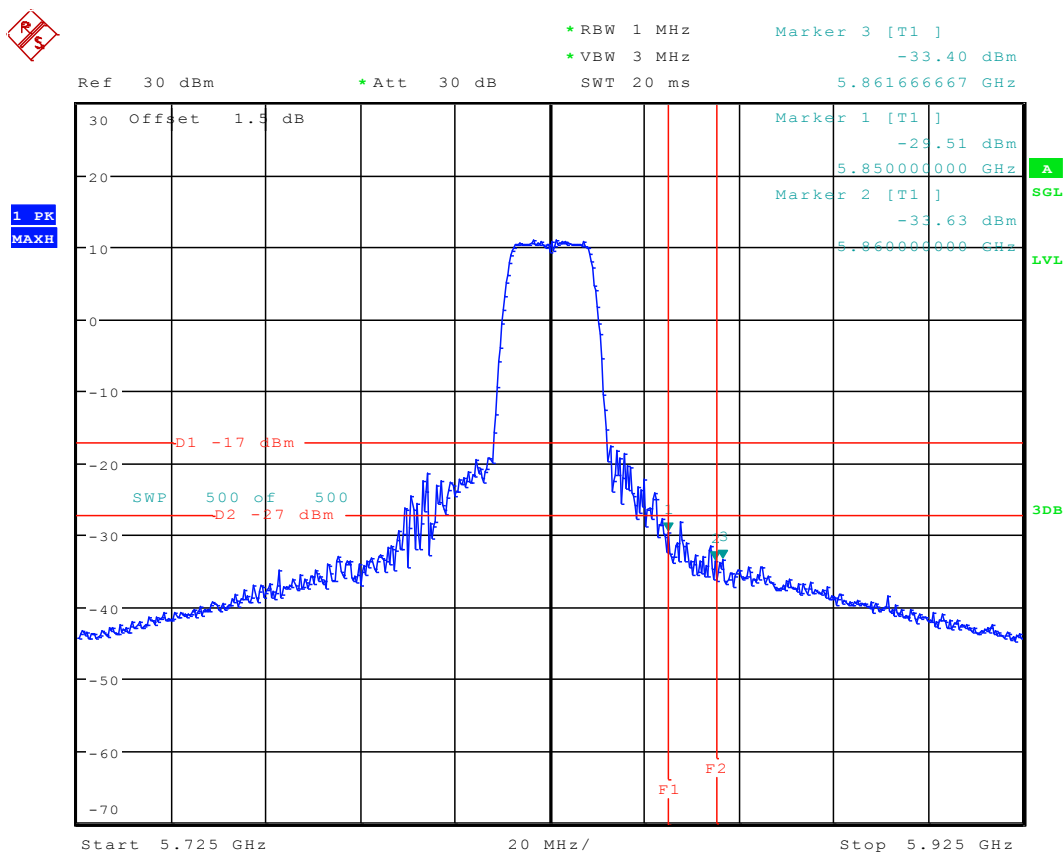
Date: 7.DEC.2016 16:42:34

## 12.31 11AC20\_149 Ant 1



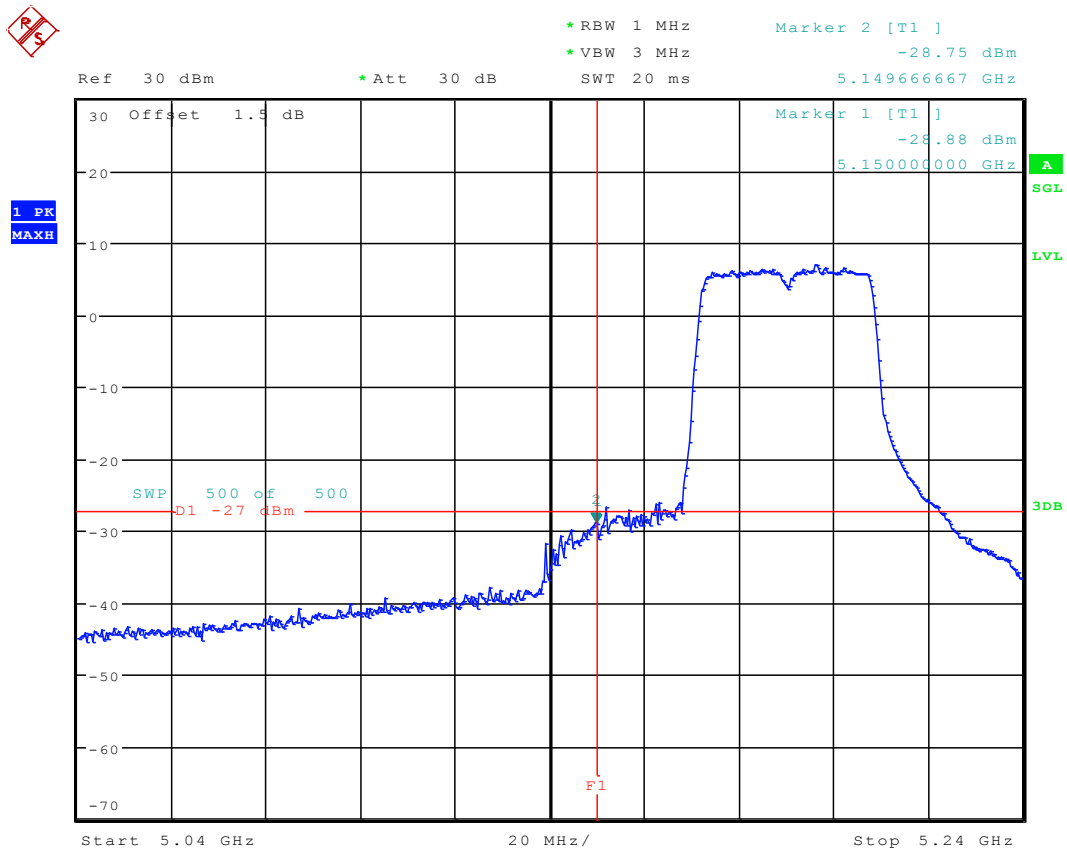
Date: 6.DEC.2016 11:17:20

## 12.32 11AC20\_165 Ant 1



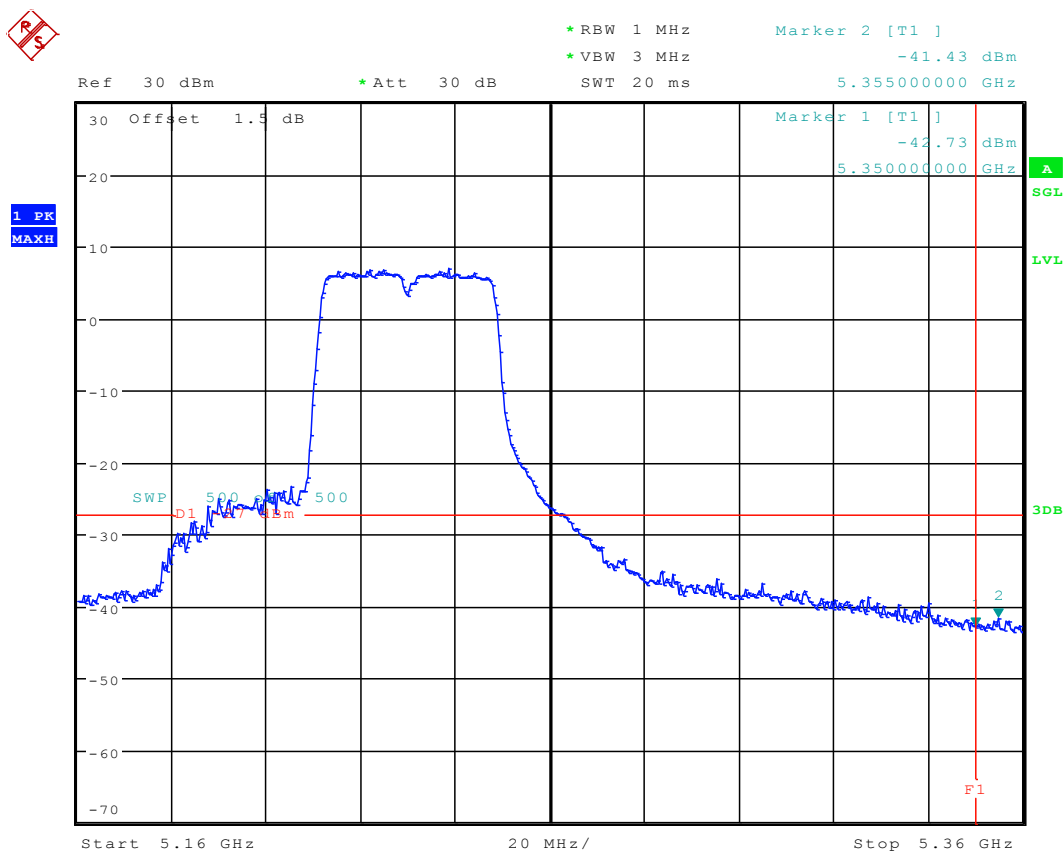
Date: 6.DEC.2016 11:22:02

## 12.33 11AC40\_38 Ant 1



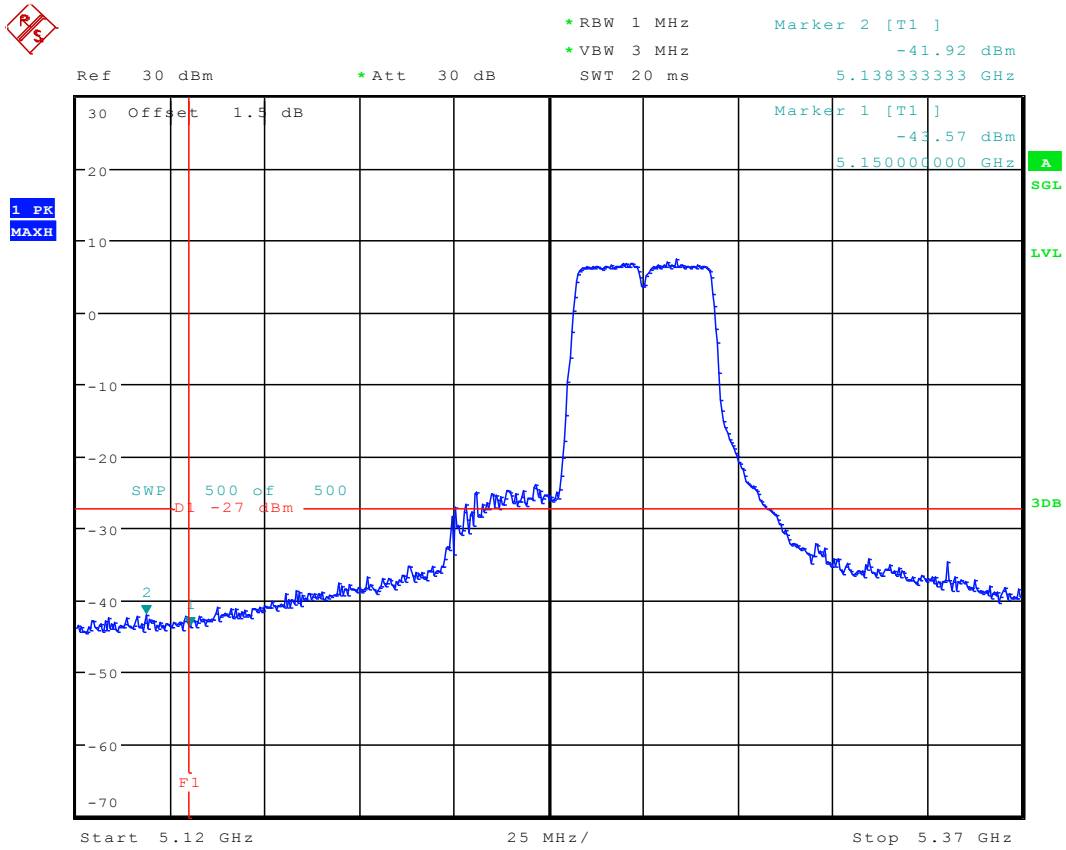
Date: 6.DEC.2016 10:38:14

## 12.34 11AC40\_46 Ant 1



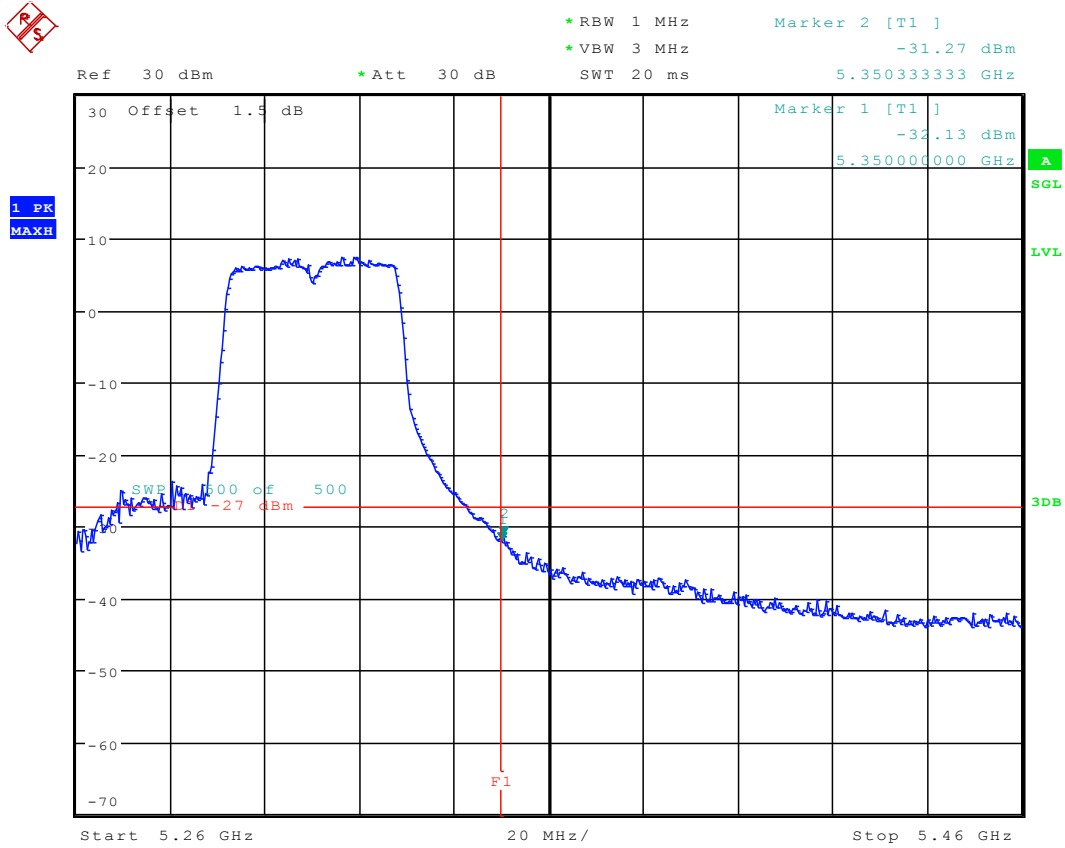
Date: 6.DEC.2016 10:29:13

## 12.35 11AC40\_54 Ant 1



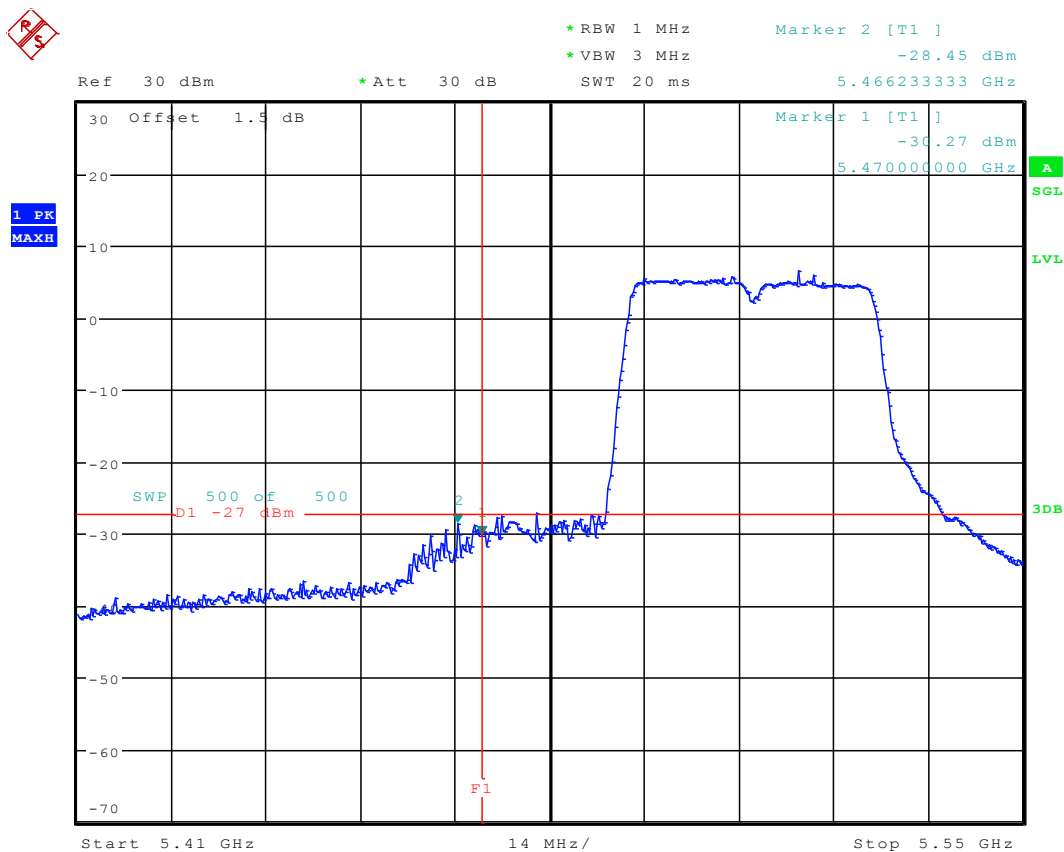
Date: 5.DEC.2016 17:15:44

## 12.36 11AC40\_62 Ant 1



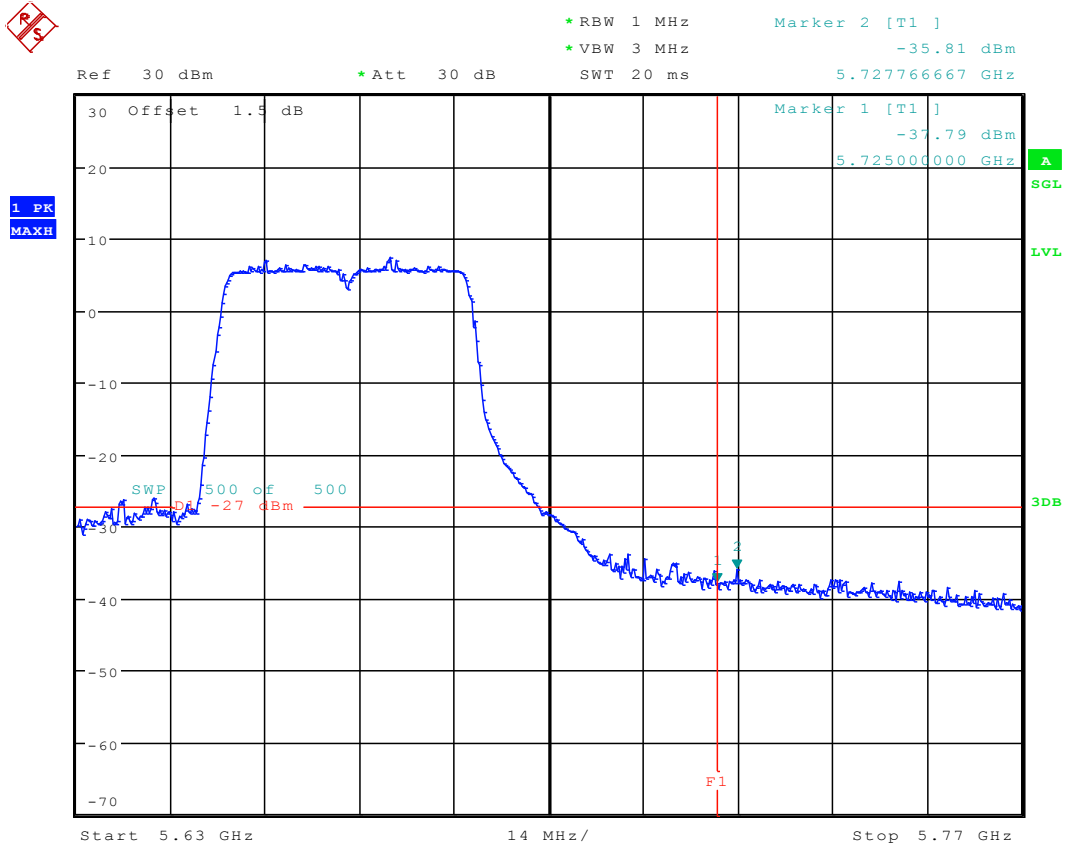
Date: 5.DEC.2016 17:20:54

# 12.37 11AC40\_102 Ant 1



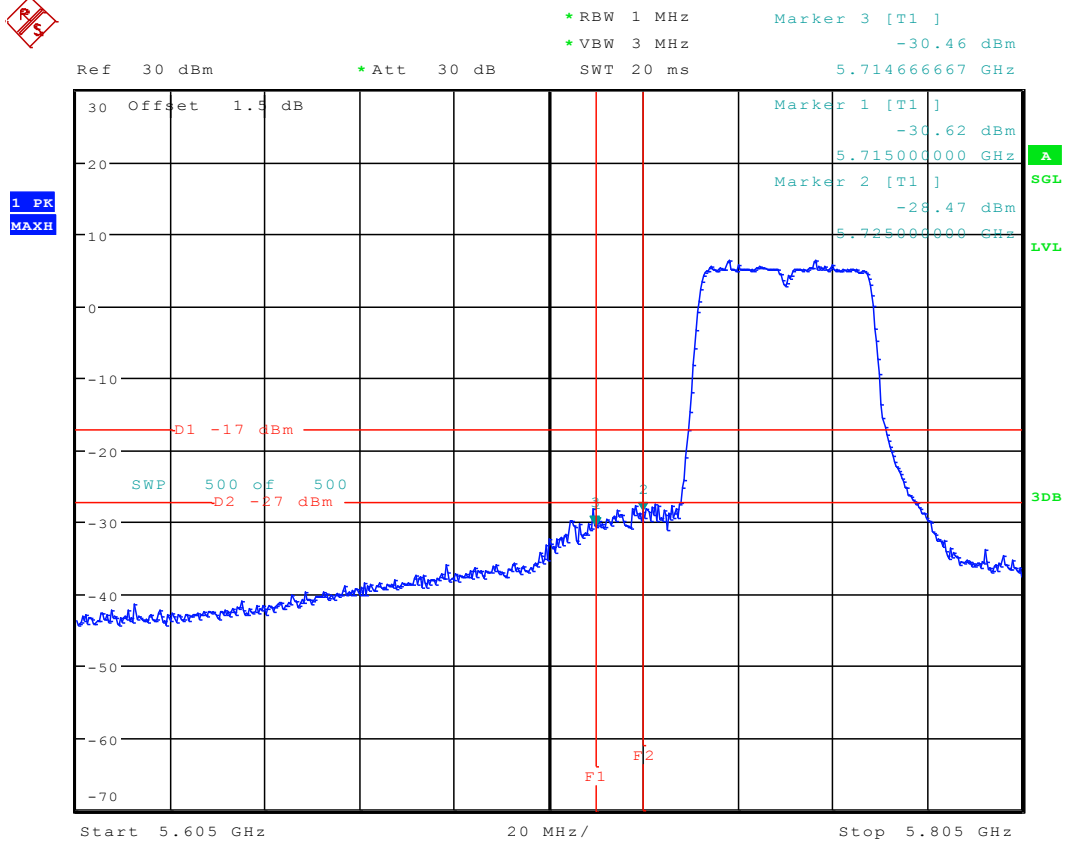
Date: 7.DEC.2016 16:47:23

## 12.38 11AC40\_134 Ant 1



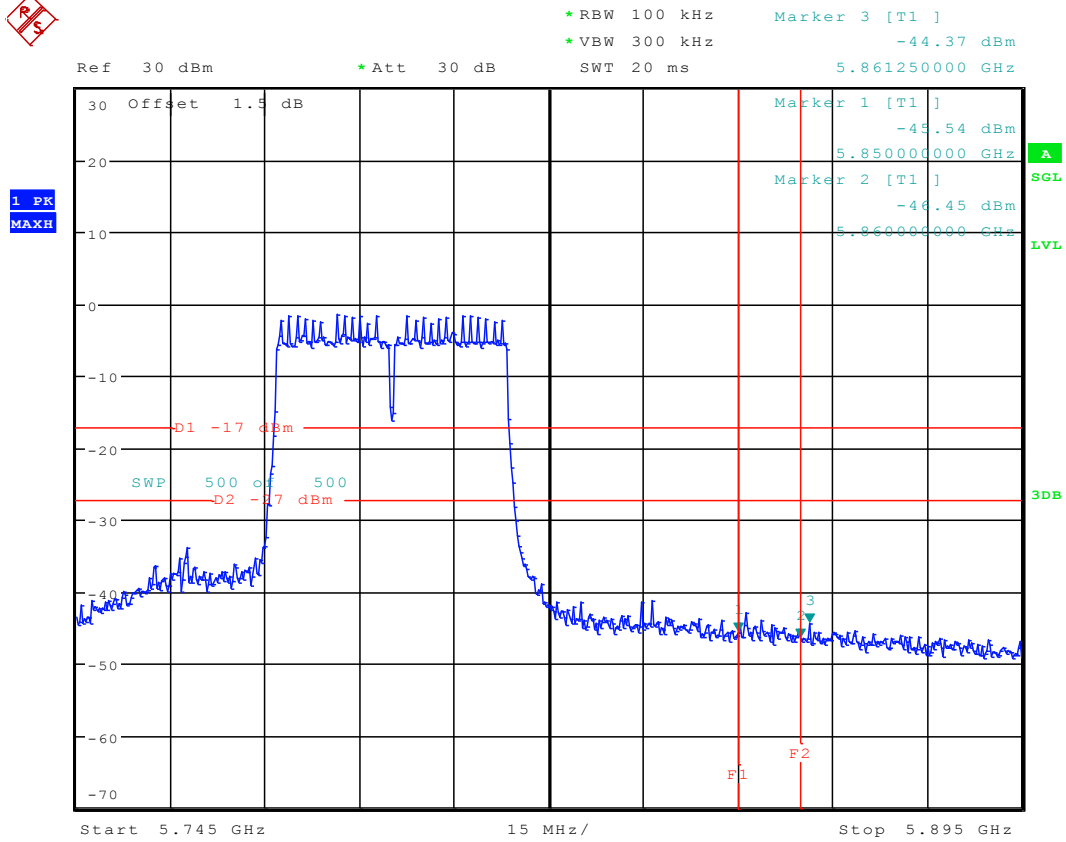
Date: 5.DEC.2016 17:29:09

## 12.39 11AC40\_151 Ant 1



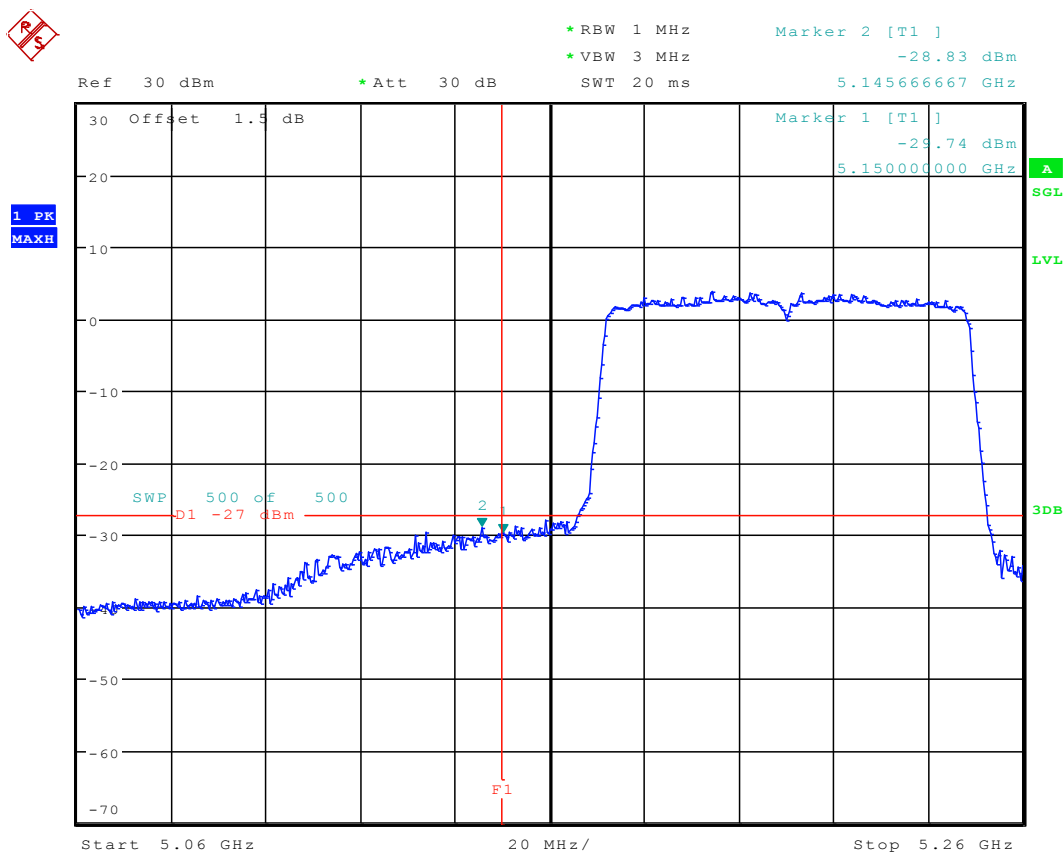
Date: 7.DEC.2016 17:01:44

## 12.40 11AC40\_159 Ant 1



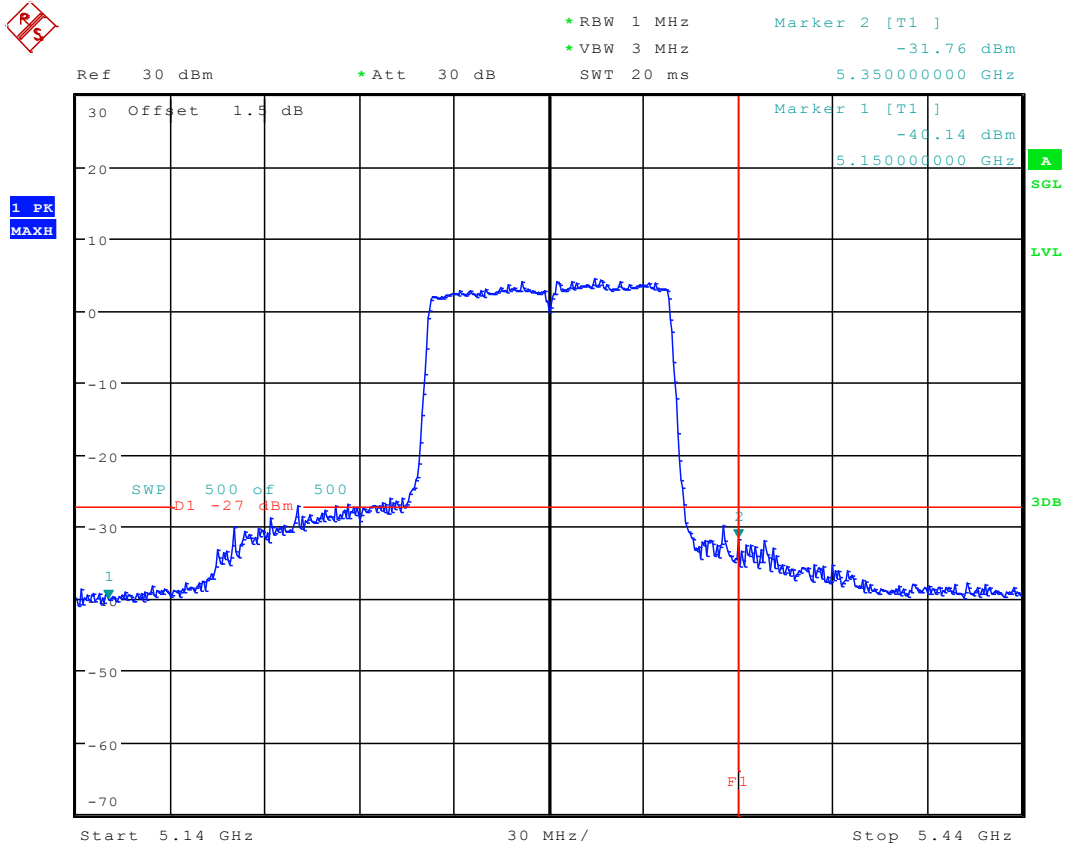
Date: 5.DEC.2016 17:40:15

## 12.41 11AC80\_42 Ant 1



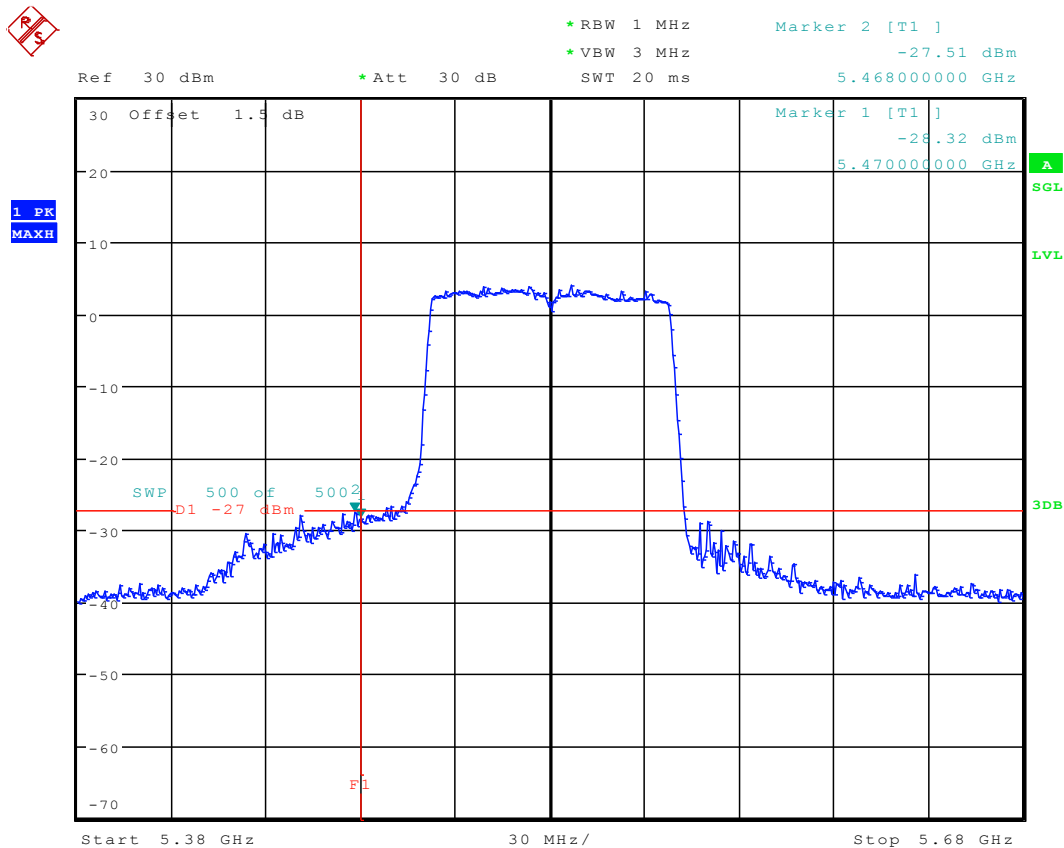
Date: 5.DEC.2016 17:54:48

## 12.42 11AC80\_58 Ant 1



Date: 5.DEC.2016 18:02:35

## 12.43 11AC80\_106 Ant 1

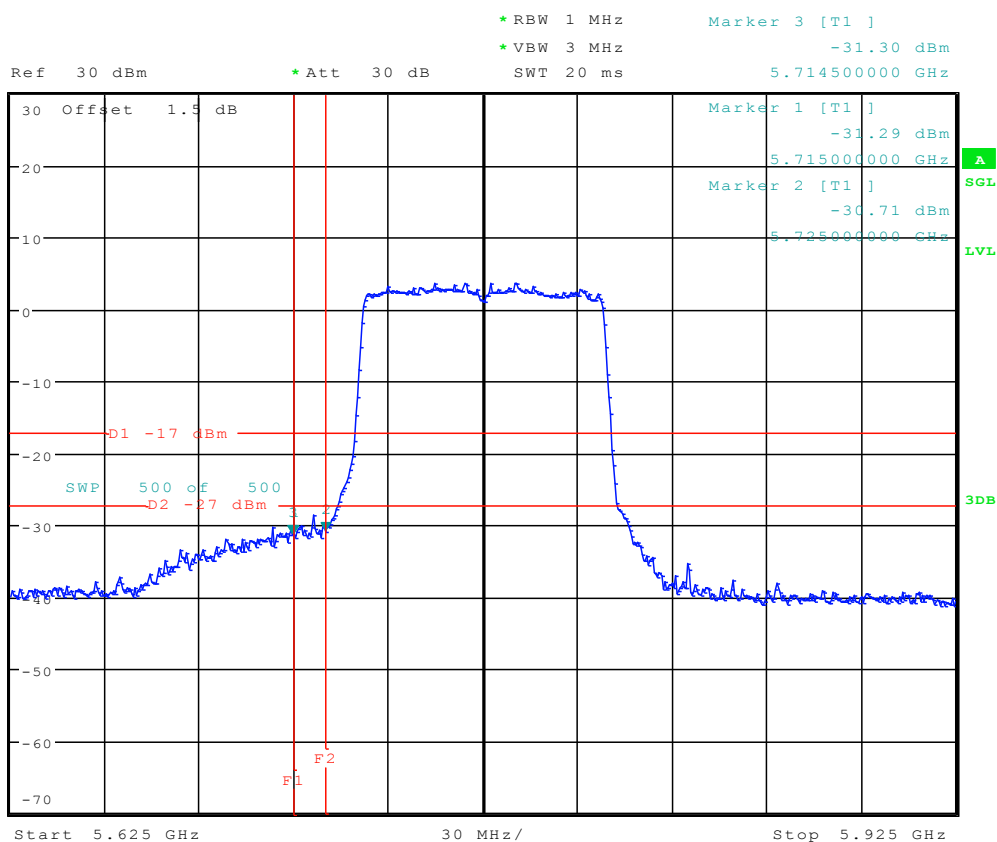


Date: 5.DEC.2016 18:10:09

## 12.44 11AC80\_155 Ant 1



1 PK  
MAXH



Date: 7.DEC.2016 17:05:33

## Appendix G: Frequencies Stability

Frequency Error vs. Voltage:

| Test Conditions            | Measured Frequency ( MHz ) |
|----------------------------|----------------------------|
|                            | 5180                       |
| V nom(V)                   | 5180.0030                  |
| V max(V)                   | 5180.0065                  |
| V min(V)                   | 5180.0066                  |
| Max. Deviation Frequency   | 0.0066                     |
| Max. Frequency Error (ppm) | 1.3                        |

Frequency Error vs. Temperature:

| Test Conditions<br>(°C)    | Measured Frequency ( MHz ) |
|----------------------------|----------------------------|
|                            | 5180                       |
| -5                         | 5180.0008                  |
| 5                          | 5180.0099                  |
| 15                         | 5180.0106                  |
| 25                         | 5180.0193                  |
| 35                         | 5180.0093                  |
| 45                         | 5180.0063                  |
| 50                         | 5180.0018                  |
| Max. Deviation Frequency   | 0.0193                     |
| Max. Frequency Error (ppm) | 3.7                        |



## Frequency Error vs. Voltage:

| Test Conditions            | Measured Frequency ( MHz ) |
|----------------------------|----------------------------|
|                            | 5825                       |
| V nom(V)                   | 5825.0101                  |
| V max(V)                   | 5825.0083                  |
| V min(V)                   | 5825.0030                  |
| Max. Deviation Frequency   | 0.0101                     |
| Max. Frequency Error (ppm) | 1.7                        |

## Frequency Error vs. Temperature:

| Test Conditions<br>(°C)    | Measured Frequency ( MHz ) |
|----------------------------|----------------------------|
|                            | 5825                       |
| -5                         | 5825.0189                  |
| 5                          | 5825.0103                  |
| 15                         | 5825.0163                  |
| 25                         | 5825.0141                  |
| 35                         | 5825.0145                  |
| 45                         | 5825.0138                  |
| 50                         | 5825.0020                  |
| Max. Deviation Frequency   | 0.0189                     |
| Max. Frequency Error (ppm) | 3.2                        |

SEND