



Appendix A1: Transmitter Output Power

1 Result Table

1.1 Channel Power, Total

NOTE 1: If applicable, the EIRP [W] = $10^{((\text{Channel Power [dBm]} + \text{Antenna Gain [dBi]})/10 - 3)}$, and the ERP [W] = EIRP [W] / 1.64.

NOTE 2: When the EUT is put into service, the practical maximum antenna gain may exceed the value as described below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required ERP/EIRP limit.

| EUT Conf. | Channel Power [dBm]@Ant1 | Channel Power [dBm] @Ant2 | Total Channel Power [W] | Antenna Gain [dBi] | EIRP [W] | ERP [W] | Verdict |
|-----------|--------------------------|---------------------------|-------------------------|--------------------|----------|---------|---------|
| 5M_B | 17.25 | 17.25 | 0.11 | 0 | 0.11 | 0.06 | Pass |
| 5M_M | 17.28 | 17.28 | 0.11 | 0 | 0.11 | 0.07 | Pass |
| 5M_T | 17.35 | 17.35 | 0.11 | 0 | 0.11 | 0.07 | Pass |
| 10M_B | 17.29 | 17.29 | 0.11 | 0 | 0.11 | 0.07 | Pass |
| 10M_M | 17.25 | 17.25 | 0.11 | 0 | 0.11 | 0.06 | Pass |
| 10M_T | 17.14 | 17.14 | 0.10 | 0 | 0.10 | 0.06 | Pass |
| 1U_B | 17.34 | --- | 0.05 | 0 | 0.05 | 0.03 | Pass |
| 1U_M | 17.10 | --- | 0.05 | 0 | 0.05 | 0.03 | Pass |
| 1U_T | 17.48 | --- | 0.06 | 0 | 0.06 | 0.03 | Pass |
| 2U_B | 14.20, 13.81 | --- | 0.05 | 0 | 0.05 | 0.03 | Pass |
| 2U_M | 13.96, 13.94 | --- | 0.05 | 0 | 0.05 | 0.03 | Pass |
| 2U_T | 14.46, 13.77 | --- | 0.05 | 0 | 0.05 | 0.03 | Pass |

1.2 Power Spectral Density

NOTE 1: If applicable, the EIRP [W/MHz] = $10^{((\text{Power Spectral Density [dBm/MHz]} + \text{Antenna Gain [dBi]})/10 - 3)}$, and the ERP [W/MHz] = EIRP [W/MHz] / 1.64.

NOTE 2: When the EUT is put into service, the practical maximum antenna gain may exceed the value as described below, and if exceed, the combination of the practical output power and the practical antenna gain should NOT exceed the required EIRP limit.

(Not applicable)

1.3 Peak-to-Average Ratio

| EUT Conf. | Peak-to-Average Ratio [dB] | Verdict |
|-----------|----------------------------|---------|
| 5M_B | 7.60 | Pass |
| 5M_M | 7.60 | Pass |
| 5M_T | 7.63 | Pass |
| 10M_B | 7.60 | Pass |



| EUT Conf. | Peak-to-Average Ratio [dB] | Verdict |
|-----------|----------------------------|---------|
| 10M_M | 7.60 | Pass |
| 10M_T | 7.60 | Pass |
| 1U_B | 7.63 | Pass |
| 1U_M | 7.63 | Pass |
| 1U_T | 7.66 | Pass |



2 Test Plot

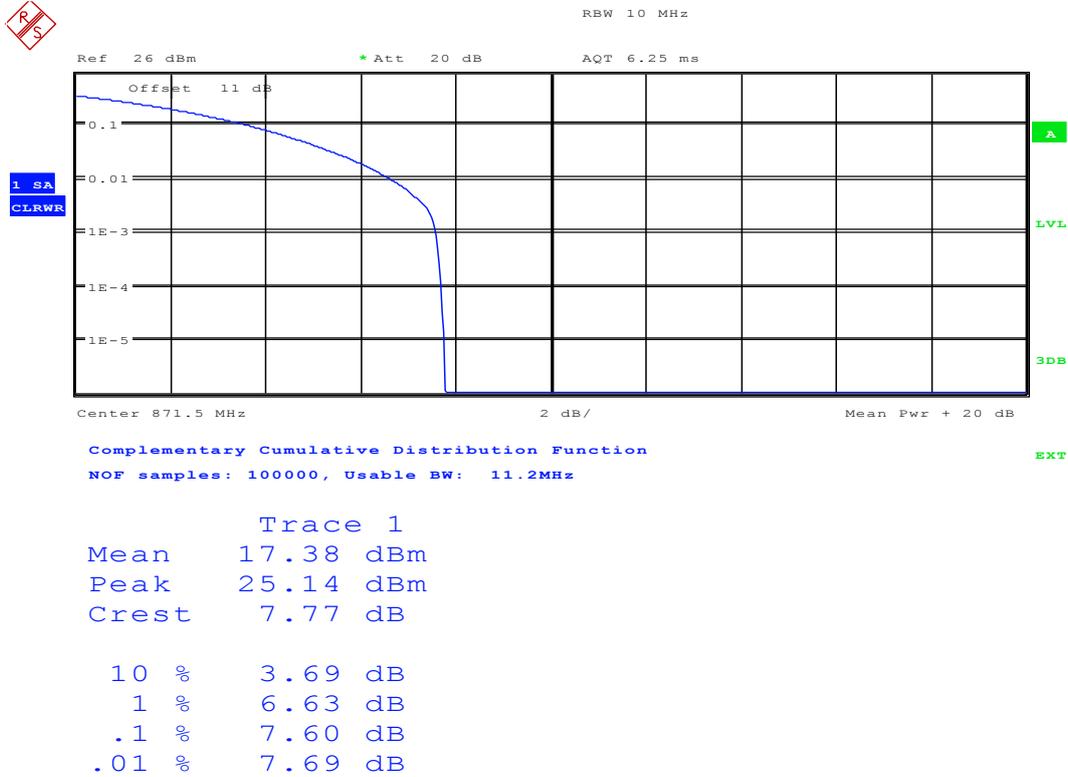
NOTE: Only the test plots for the measurements of Spectral Density and Peak-to-Average Ratio are supplied.

2.1 Power Spectral Density

(Not applicable)

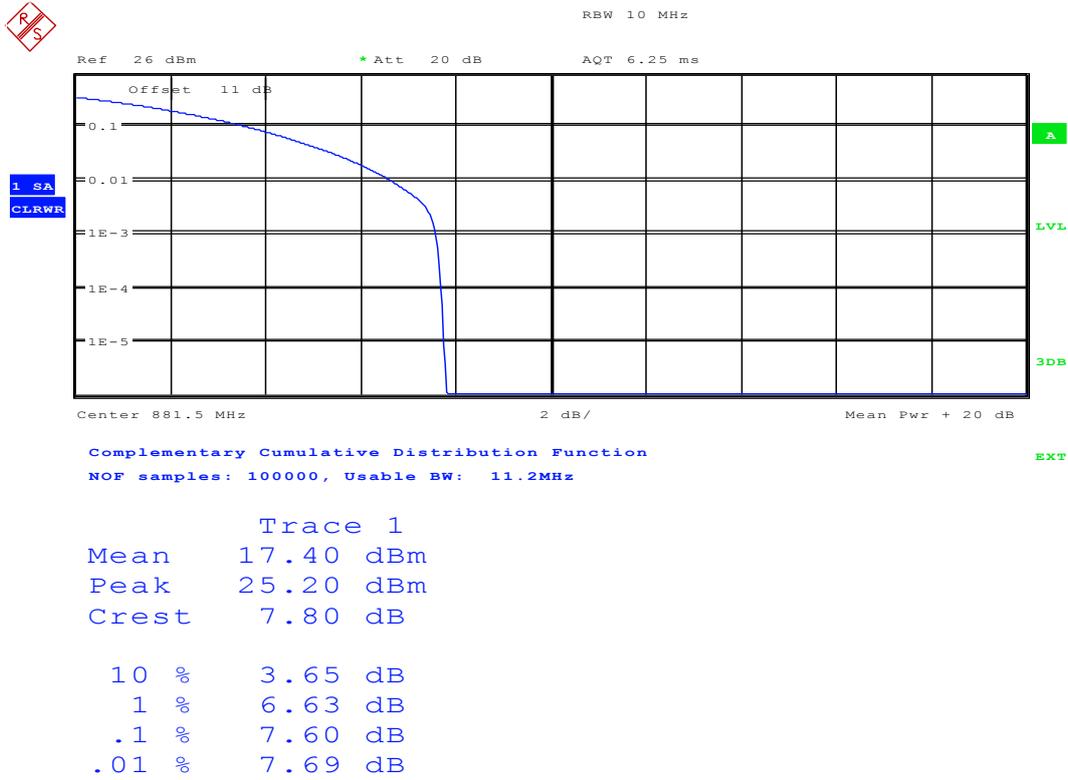
2.2 Peak-to-Average Ratio

2.2.1 5M_B



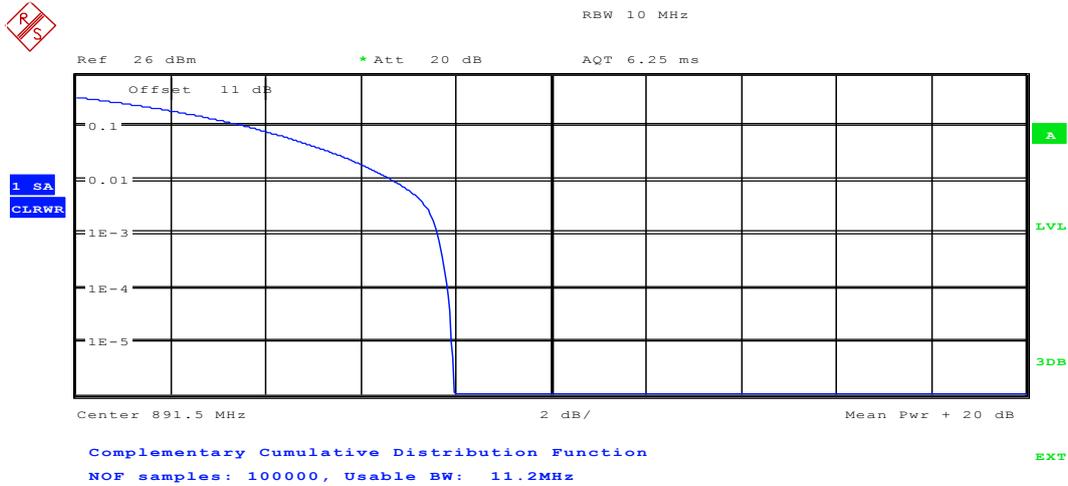
Date: 20.NOV.2015 08:52:56

2.2.2 5M_M



Date: 20.NOV.2015 08:54:17

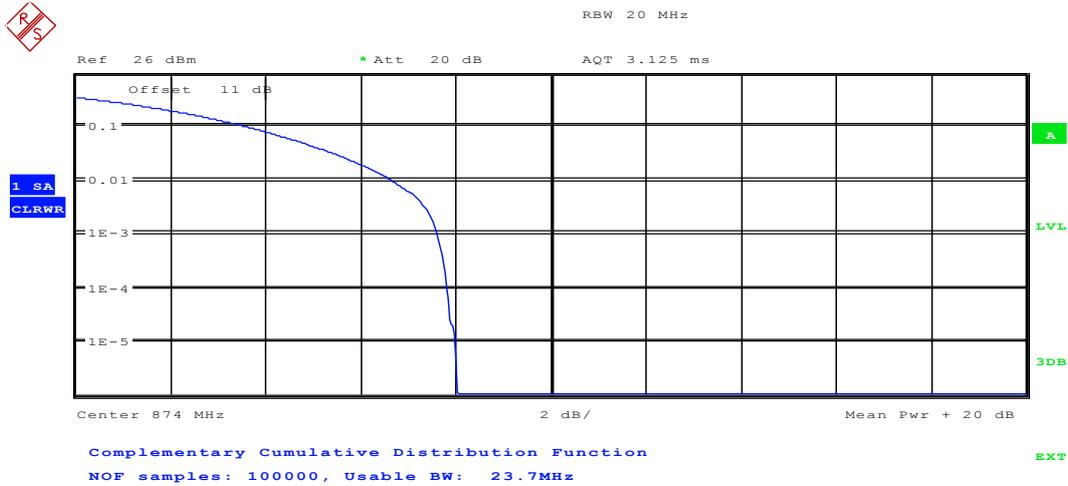
2.2.3 5M_T



| Trace 1 | |
|---------|-----------|
| Mean | 17.43 dBm |
| Peak | 25.40 dBm |
| Crest | 7.97 dB |
| 10 % | 3.69 dB |
| 1 % | 6.70 dB |
| .1 % | 7.63 dB |
| .01 % | 7.82 dB |

Date: 20.NOV.2015 08:56:17

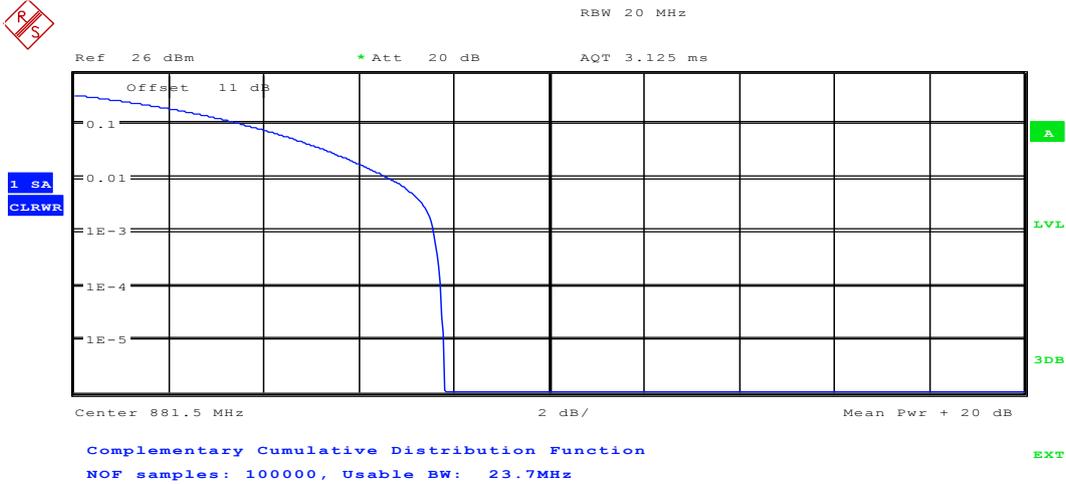
2.2.4 10M_B



| Trace 1 | |
|---------|-----------|
| Mean | 17.37 dBm |
| Peak | 25.39 dBm |
| Crest | 8.02 dB |
| 10 % | 3.69 dB |
| 1 % | 6.67 dB |
| .1 % | 7.60 dB |
| .01 % | 7.82 dB |

Date: 20.NOV.2015 09:00:09

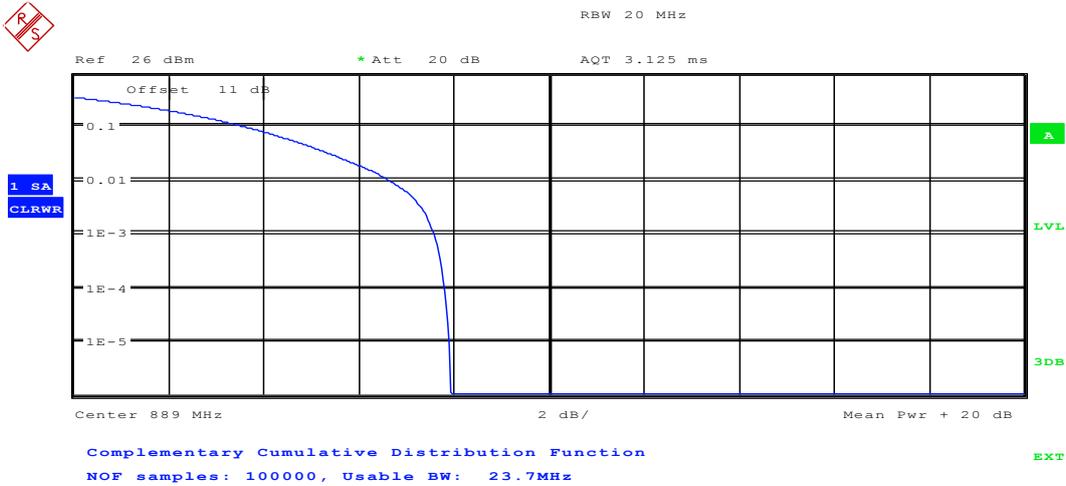
2.2.5 10M_M



| Trace 1 | |
|---------|-----------|
| Mean | 17.35 dBm |
| Peak | 25.16 dBm |
| Crest | 7.81 dB |
| | |
| 10 % | 3.65 dB |
| 1 % | 6.67 dB |
| .1 % | 7.60 dB |
| .01 % | 7.72 dB |

Date: 20.NOV.2015 09:01:04

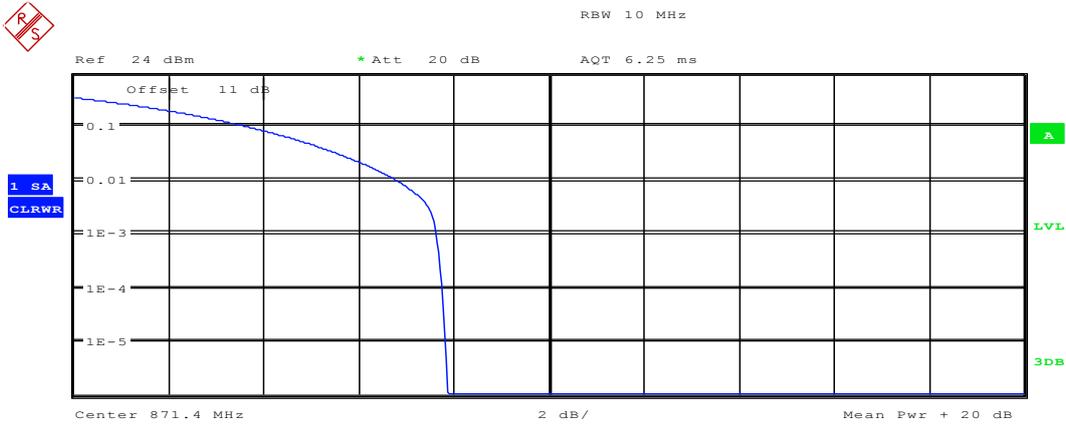
2.2.6 10M_T



| Trace 1 | |
|---------|-----------|
| Mean | 17.51 dBm |
| Peak | 25.43 dBm |
| Crest | 7.92 dB |
| | |
| 10 % | 3.69 dB |
| 1 % | 6.63 dB |
| .1 % | 7.60 dB |
| .01 % | 7.82 dB |

Date: 20.NOV.2015 09:01:50

2.2.7 1U_B

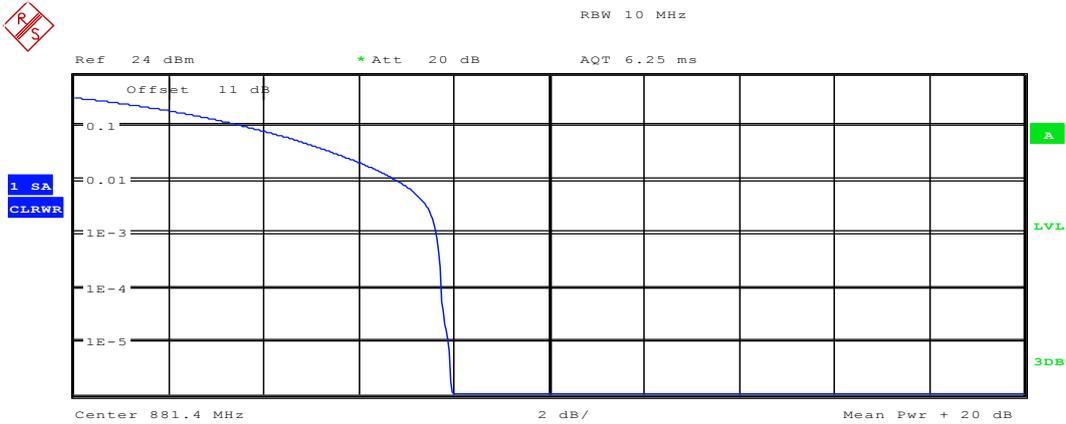


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 17.51 dBm |
| Peak | 25.37 dBm |
| Crest | 7.86 dB |
| 10 % | 3.72 dB |
| 1 % | 6.79 dB |
| .1 % | 7.63 dB |
| .01 % | 7.76 dB |

Date: 20.NOV.2015 08:13:58

2.2.8 1U_M

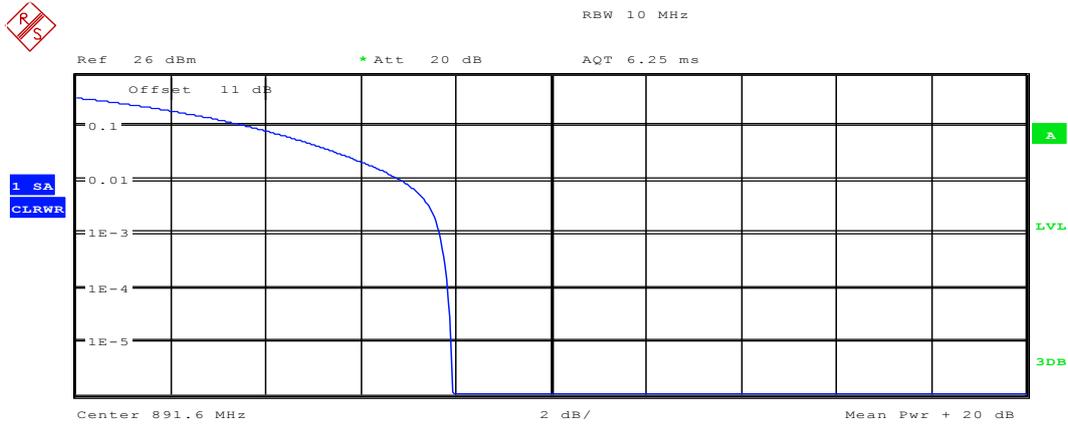


Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 17.26 dBm |
| Peak | 25.21 dBm |
| Crest | 7.95 dB |
| 10 % | 3.72 dB |
| 1 % | 6.79 dB |
| .1 % | 7.63 dB |
| .01 % | 7.76 dB |

Date: 20.NOV.2015 08:15:06

2.2.9 1U_T



Complementary Cumulative Distribution Function
 NOF samples: 100000, Usable BW: 11.2MHz

| Trace 1 | |
|---------|-----------|
| Mean | 17.56 dBm |
| Peak | 25.47 dBm |
| Crest | 7.91 dB |
| 10 % | 3.72 dB |
| 1 % | 6.86 dB |
| .1 % | 7.66 dB |
| .01 % | 7.85 dB |

Date: 20.NOV.2015 08:16:15



Appendix B1: Bandwidth



1 Result Table

1.1 Occupied Bandwidth

| EUT Conf. | Occupied Bandwidth [MHz] | Verdict |
|-----------|--------------------------|---------|
| 5M_B | 4.500 | --- |
| 5M_M | 4.490 | --- |
| 5M_T | 4.490 | --- |
| 10M_B | 8.925 | --- |
| 10M_M | 8.940 | --- |
| 10M_T | 8.925 | --- |
| 1U_B | 4.151 | --- |
| 1U_M | 4.151 | --- |
| 1U_T | 4.151 | --- |

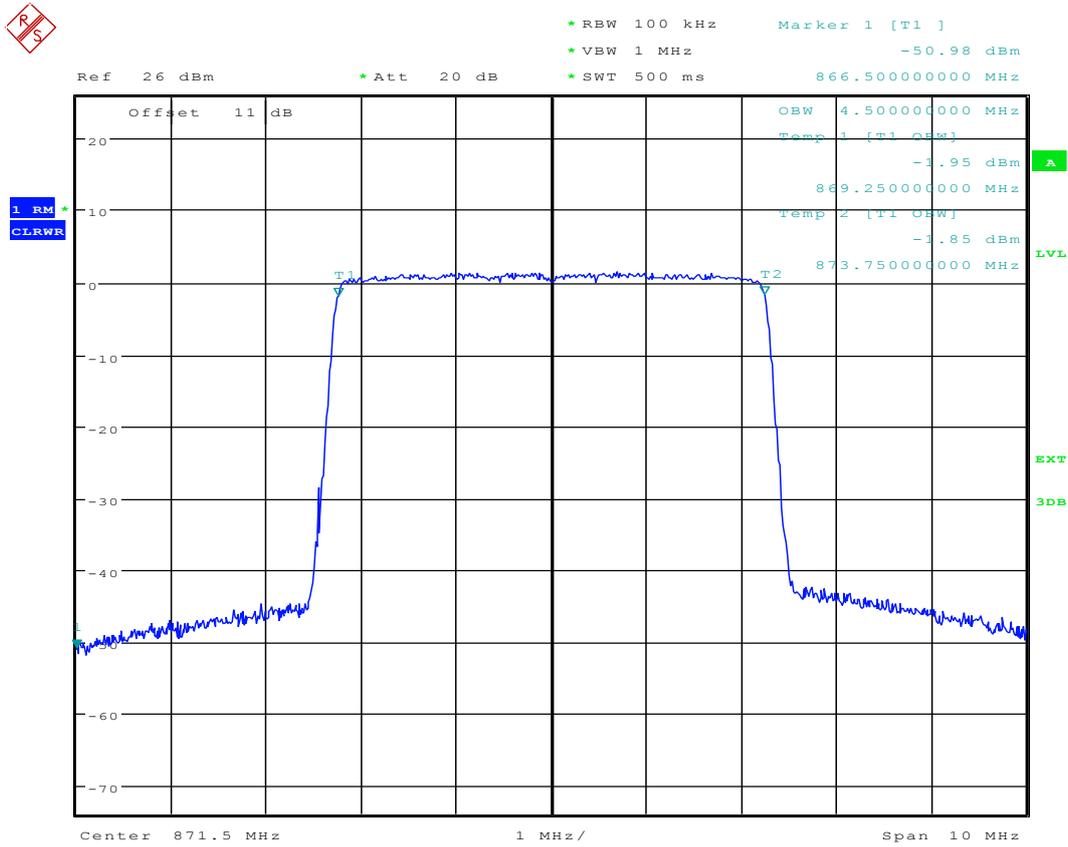
1.2 Emission Bandwidth

| EUT Conf. | Emission Bandwidth, -26 dBc [MHz] | Emission Bandwidth, -20 dBc [MHz] | Verdict |
|-----------|-----------------------------------|-----------------------------------|---------|
| 5M_B | 4.784 | --- | --- |
| 5M_M | 4.809 | --- | --- |
| 5M_T | 4.787 | --- | --- |
| 10M_B | 9.355 | --- | --- |
| 10M_M | 9.334 | --- | --- |
| 10M_T | 9.339 | --- | --- |
| 1U_B | 4.712 | --- | --- |
| 1U_M | 4.712 | --- | --- |
| 1U_T | 4.712 | --- | --- |

2 Test Plot

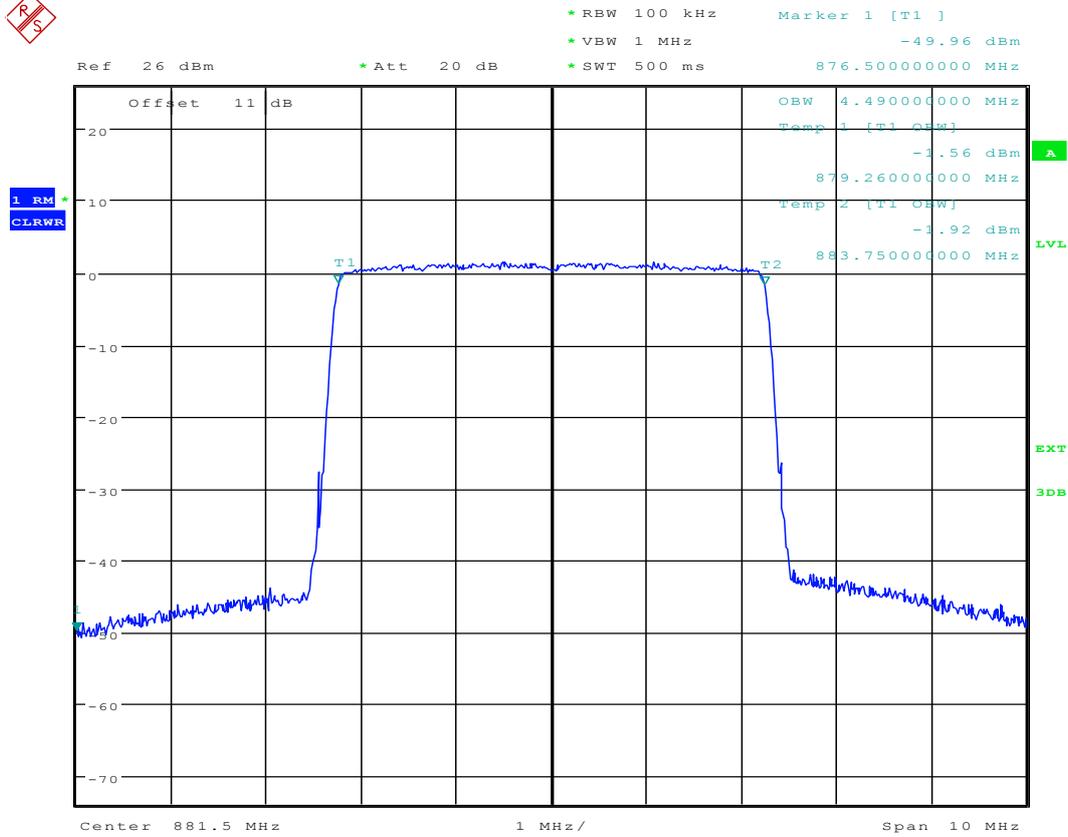
2.1 Occupied Bandwidth

2.1.1 5M_B



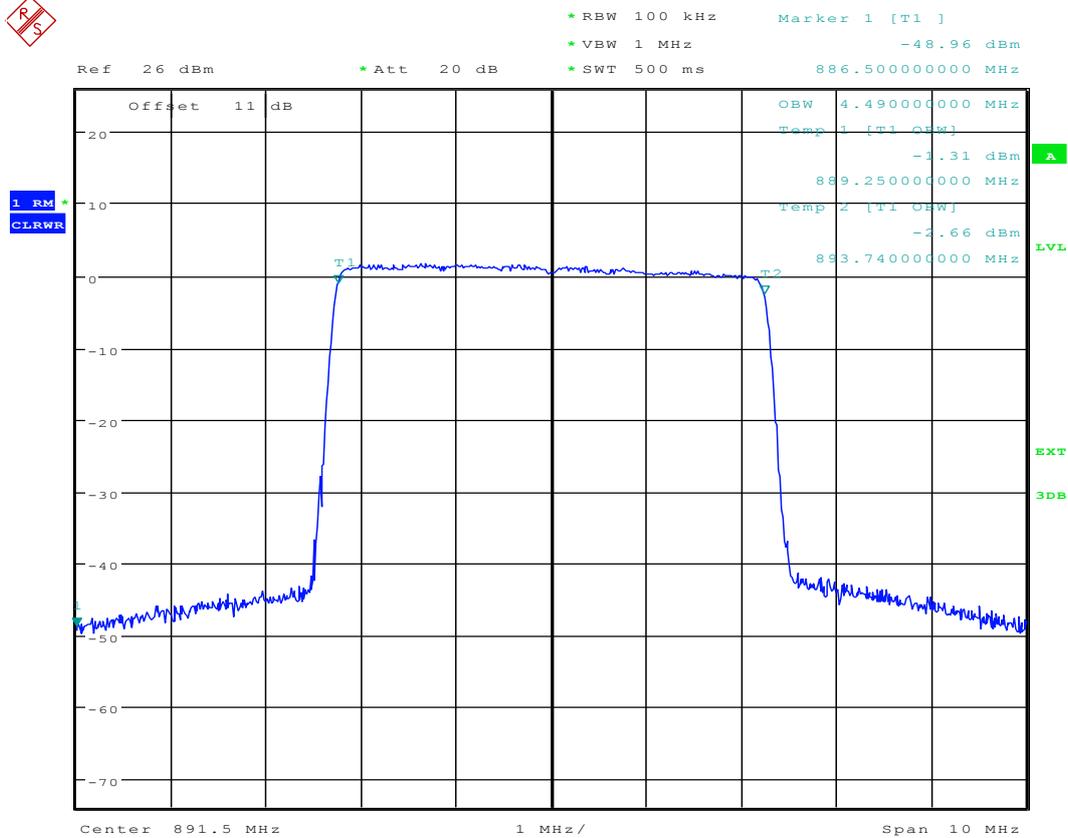
Date: 18.NOV.2015 15:36:22

2.1.2 5M_M



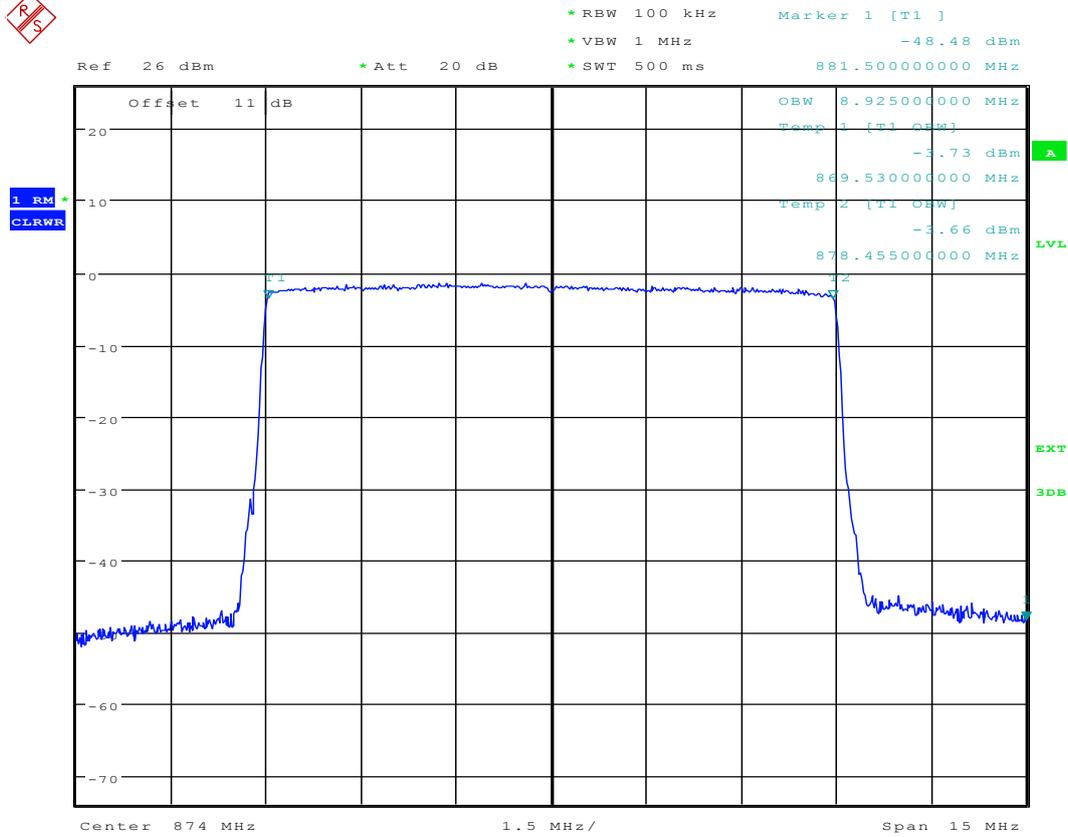
Date: 18.NOV.2015 15:37:09

2.1.3 5M_T



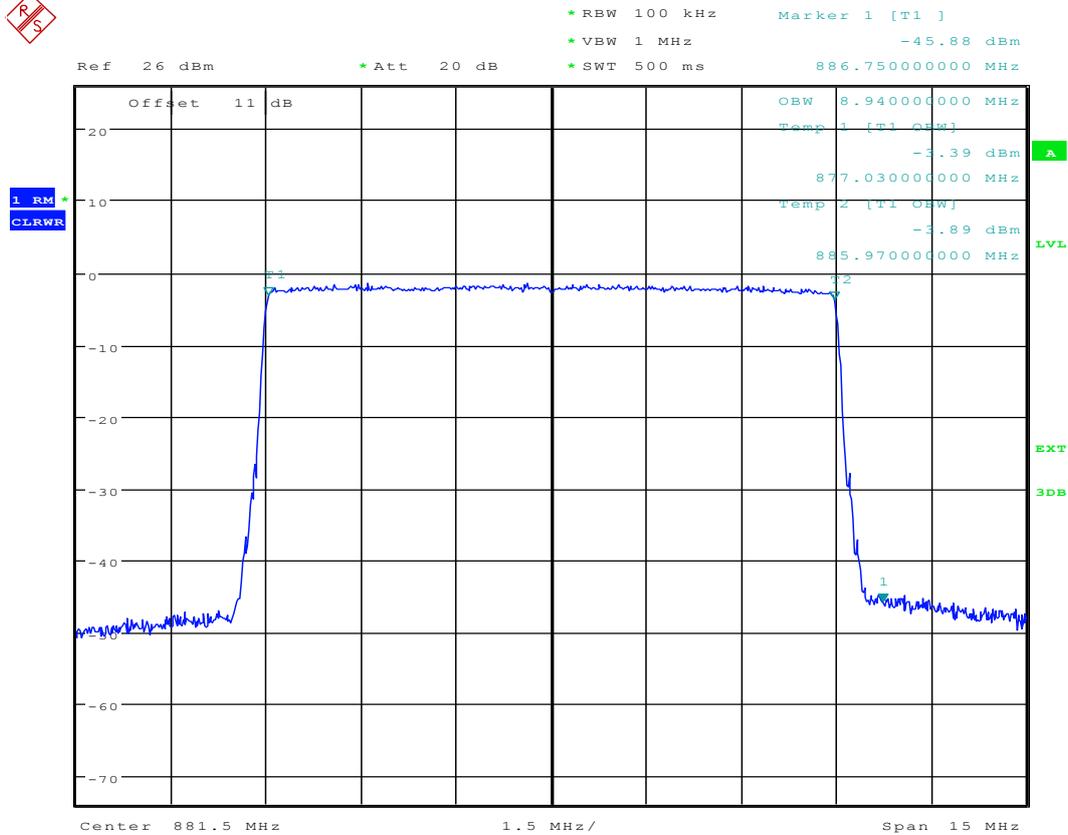
Date: 18.NOV.2015 15:37:52

2.1.4 10M_B



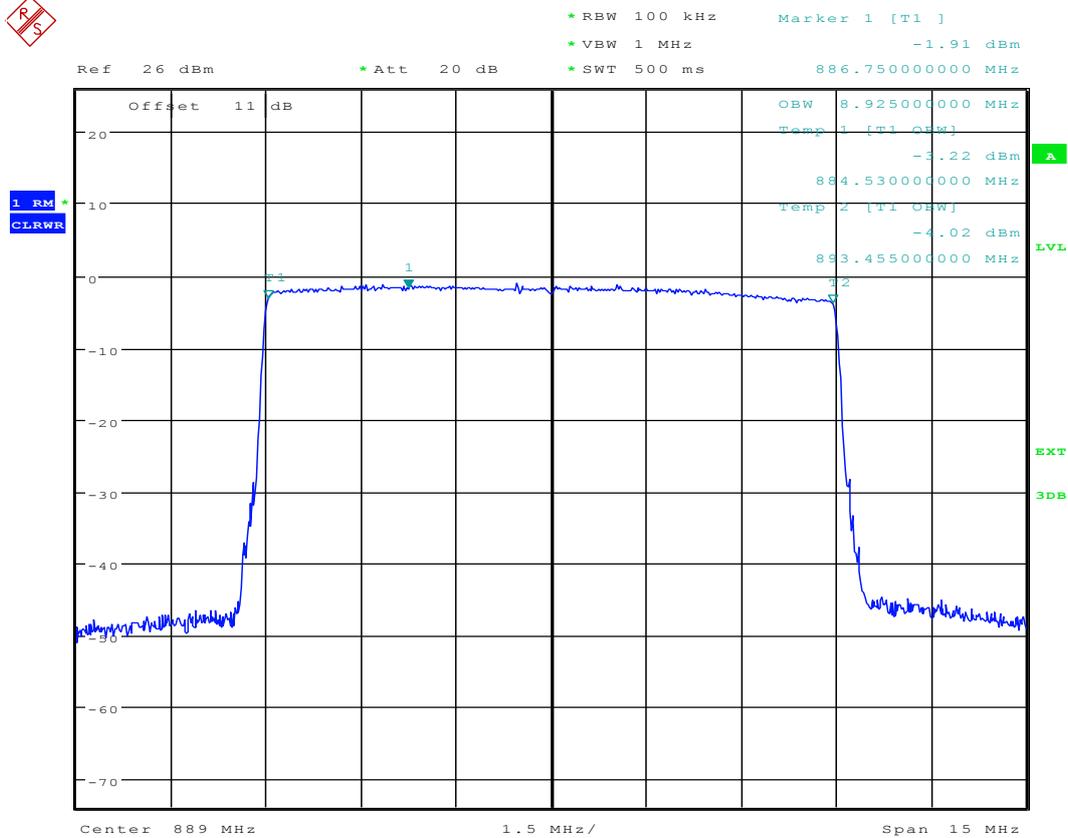
Date: 18.NOV.2015 15:40:32

2.1.5 10M_M



Date: 18.NOV.2015 15:39:50

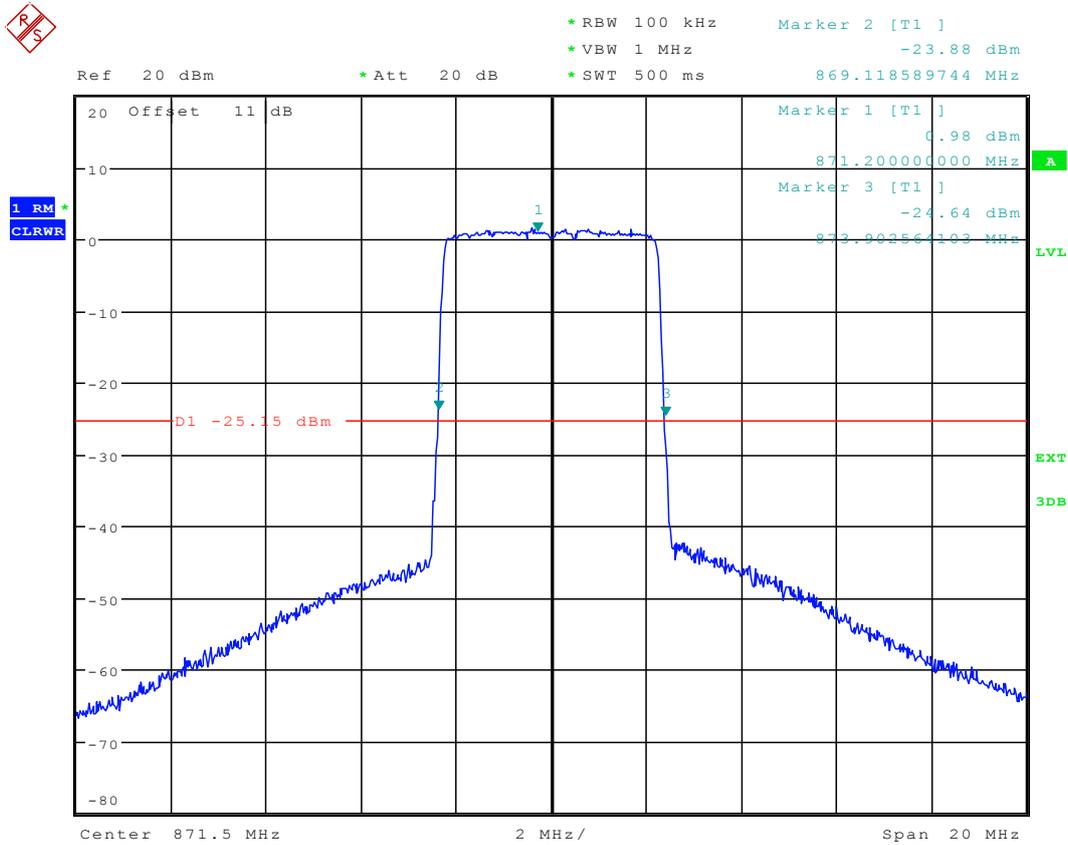
2.1.6 10M_T



Date: 18.NOV.2015 15:39:02

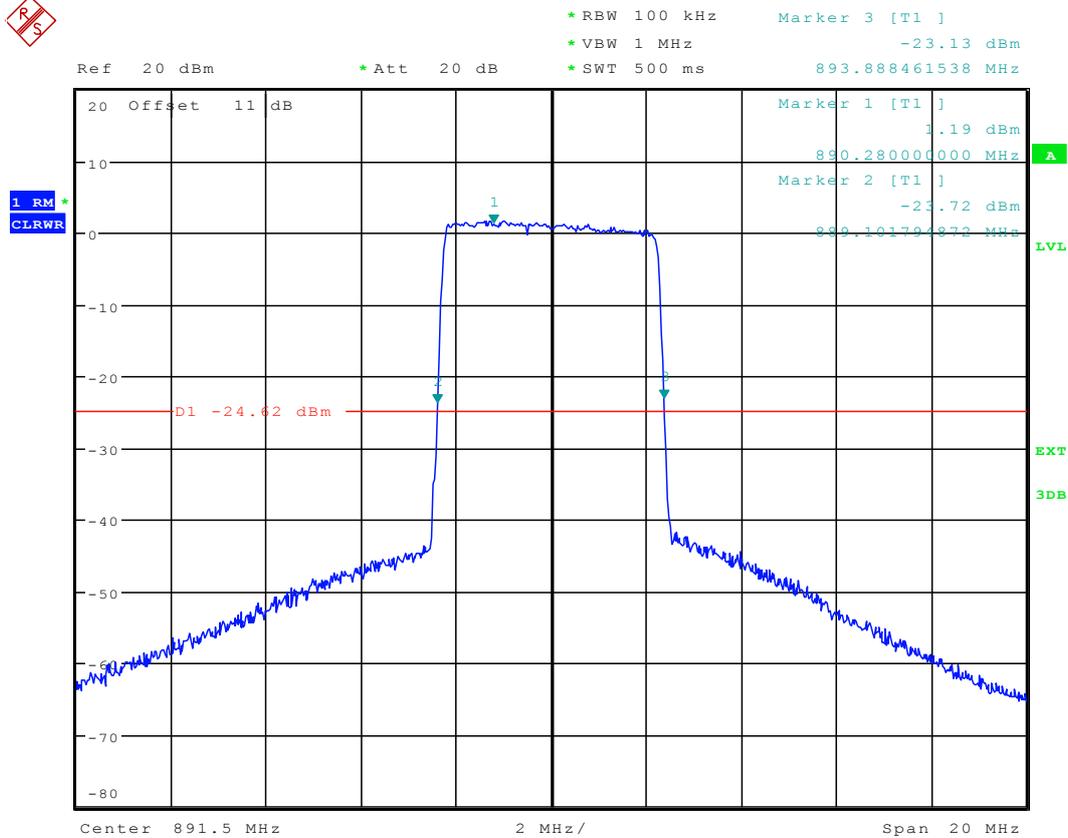
2.2 Emission Bandwidth

2.2.1 5M_B



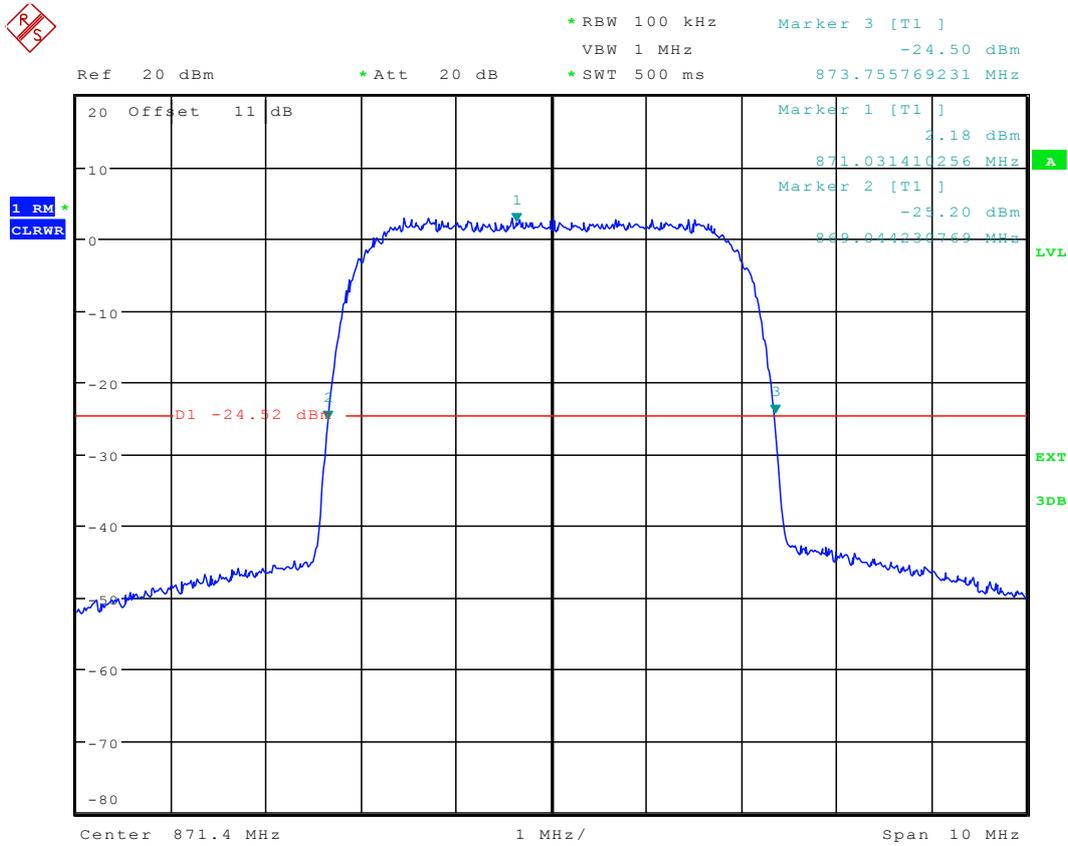
Date: 18.NOV.2015 15:53:16

2.2.3 5M_T



Date: 18.NOV.2015 15:55:51

2.2.7 1U_B



Date: 20.NOV.2015 08:43:32



Appendix C1: Band Edges Compliance



1 Result Table

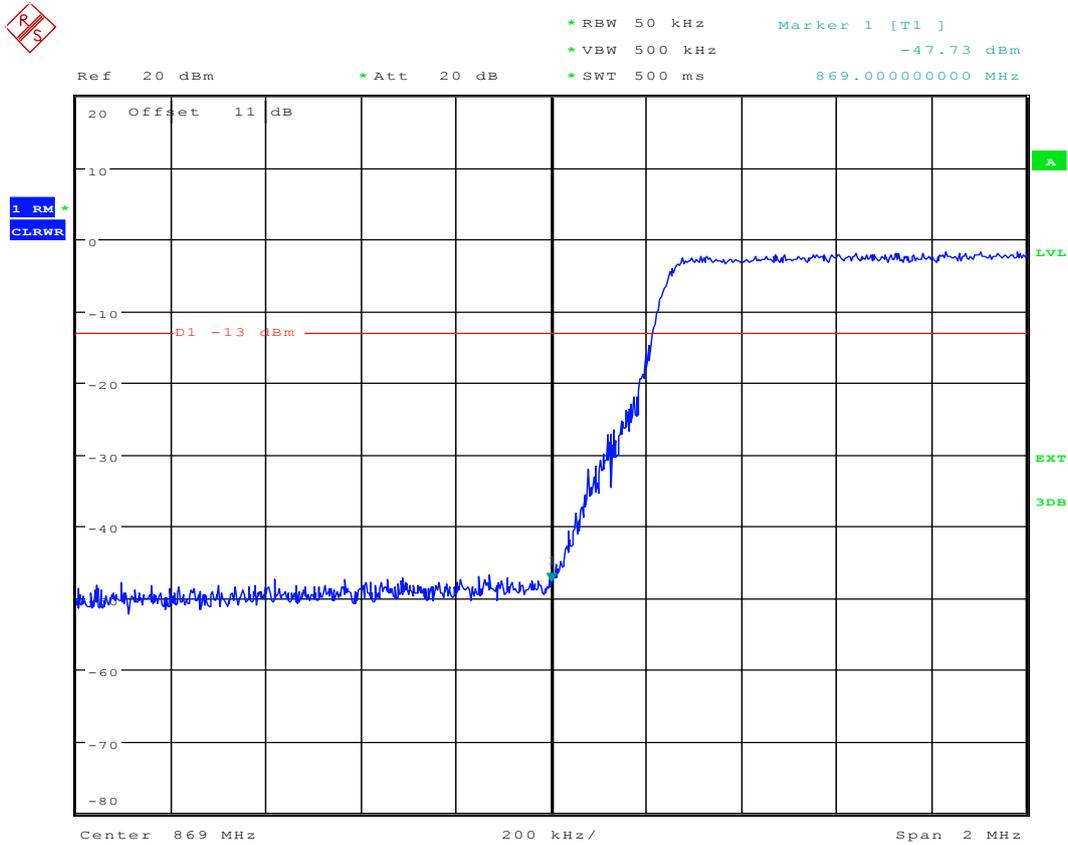
NOTE: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

| EUT Conf. | Maximum Emission [dBm] | Verdict |
|-----------|------------------------|---------|
| 5M_B | <-13 | Pass |
| 5M_T | <-13 | Pass |
| 10M_B | <-13 | Pass |
| 10M_T | <-13 | Pass |
| 1U_B | <-13 | Pass |
| 1U_T | <-13 | Pass |



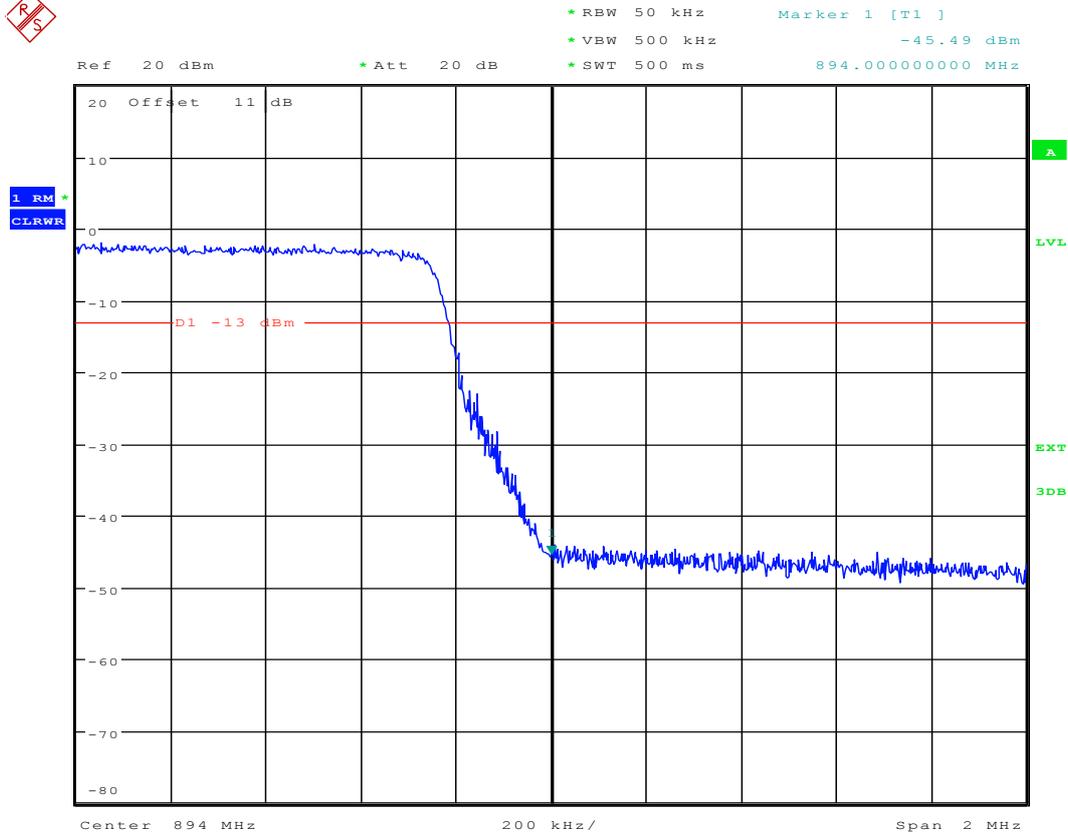
2 Test Plot

2.1 5M_B



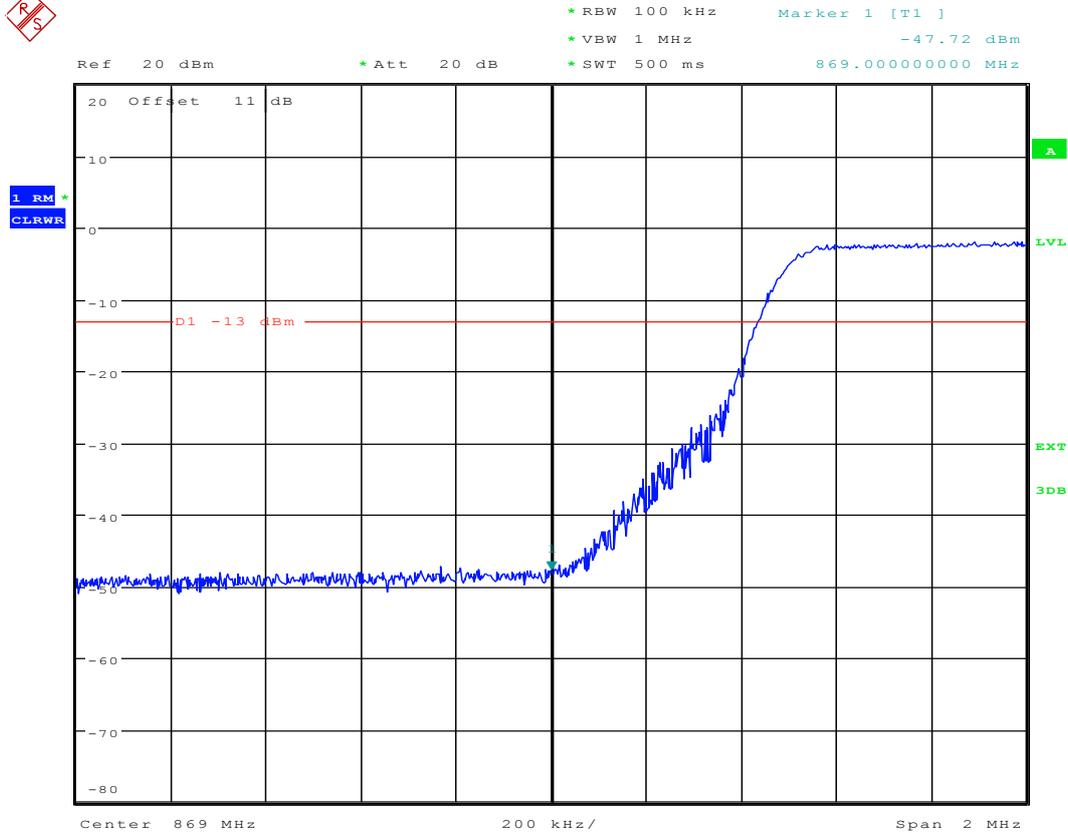
Date: 18.NOV.2015 16:09:38

2.2 5M_T



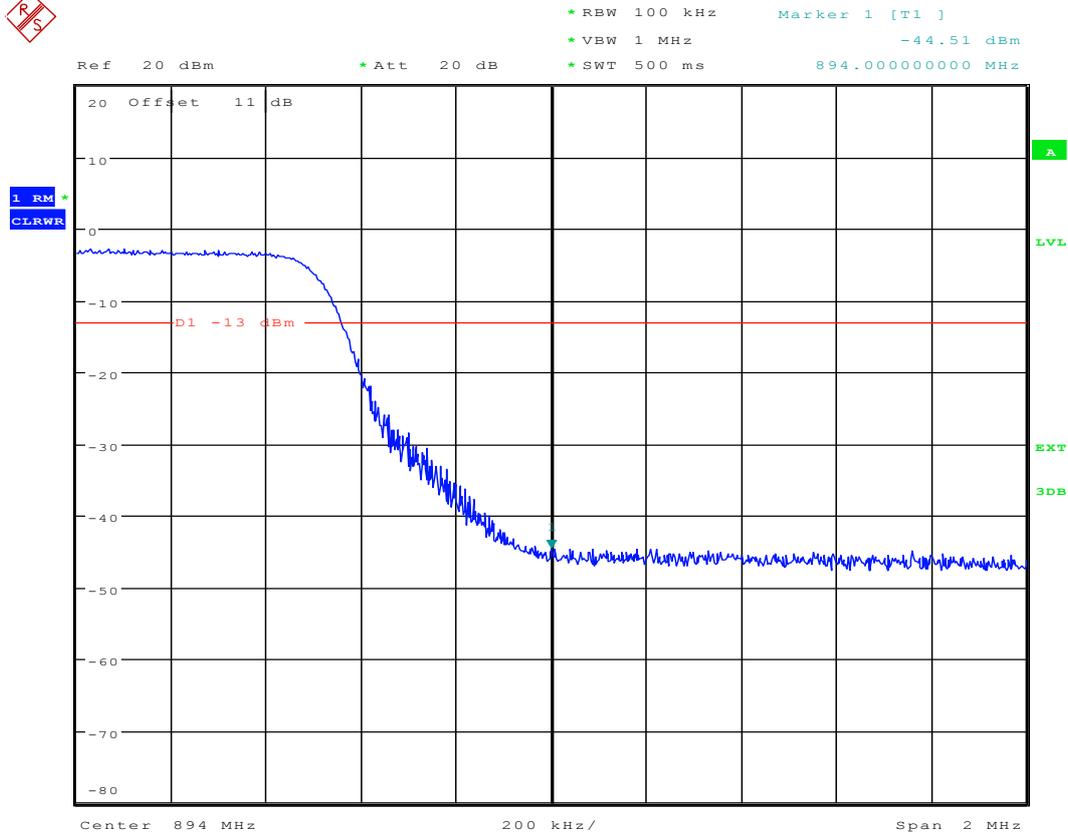
Date: 18.NOV.2015 16:11:57

2.3 10M_B



Date: 18.NOV.2015 16:08:40

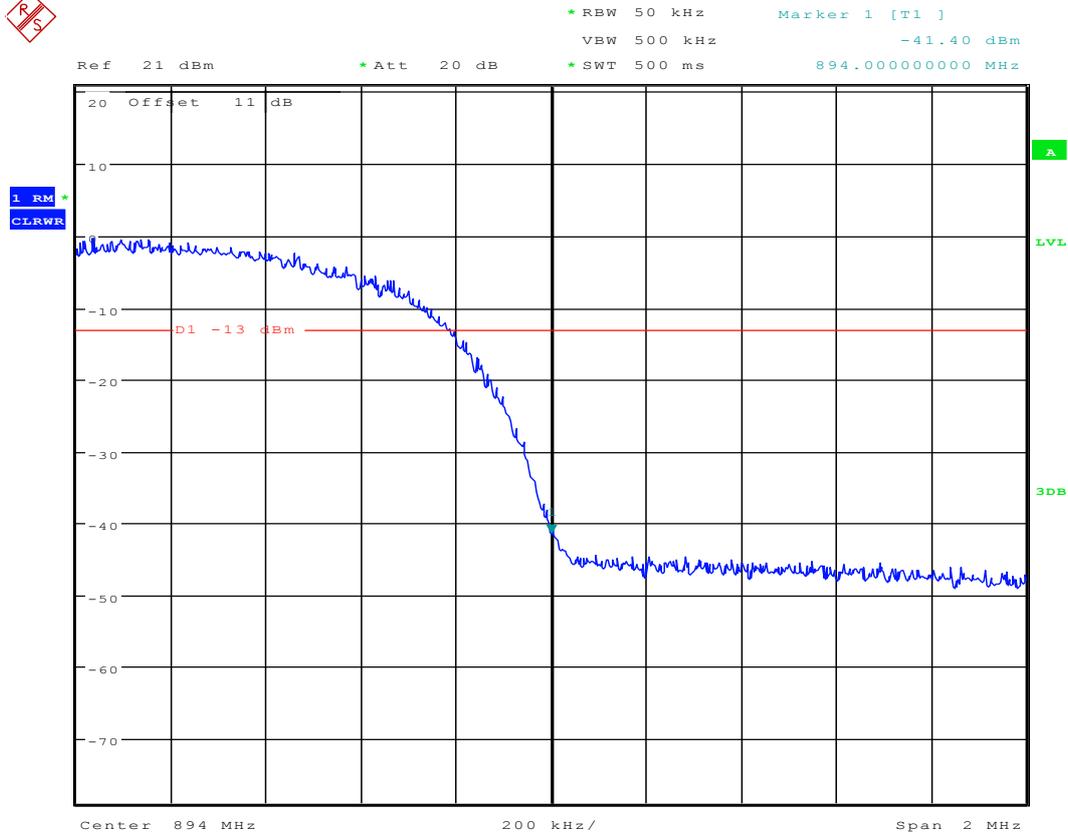
2.4 10M_T



Date: 18.NOV.2015 16:07:24



2.6 1U_T



Date: 20.NOV.2015 13:47:18



Appendix D1: Spurious Emission at Antenna Terminals

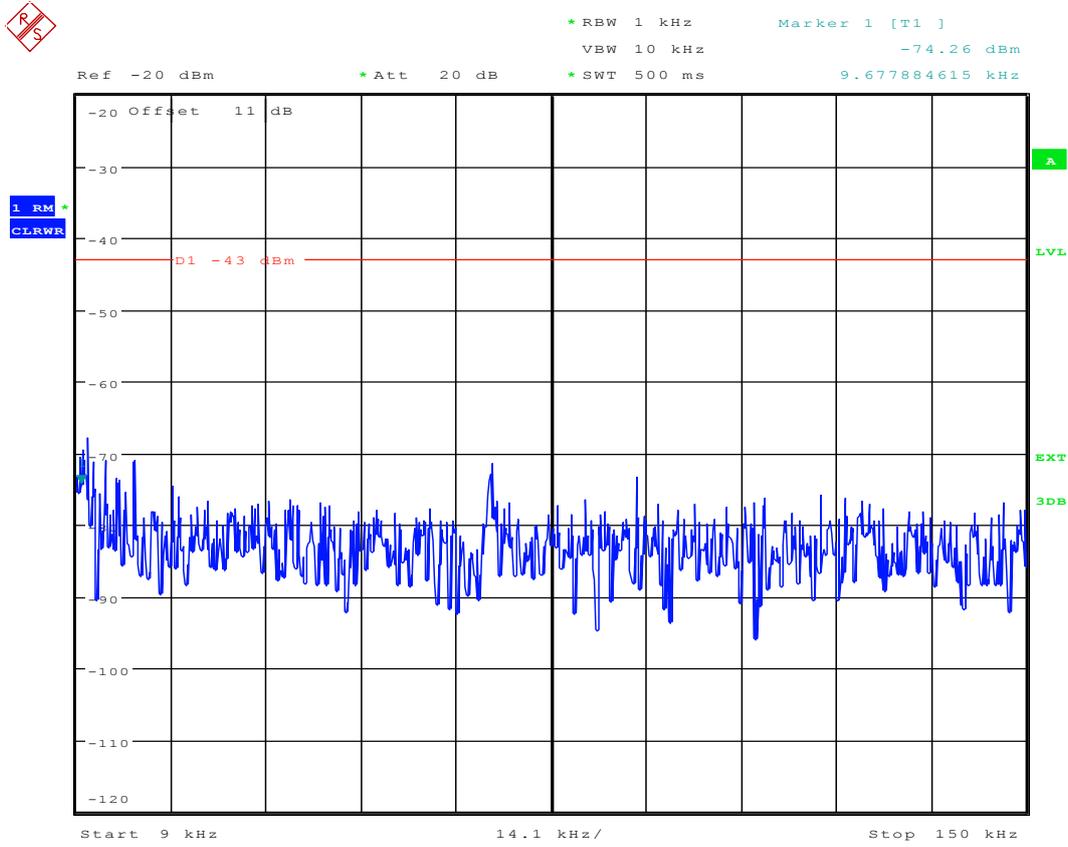


1 Result Table

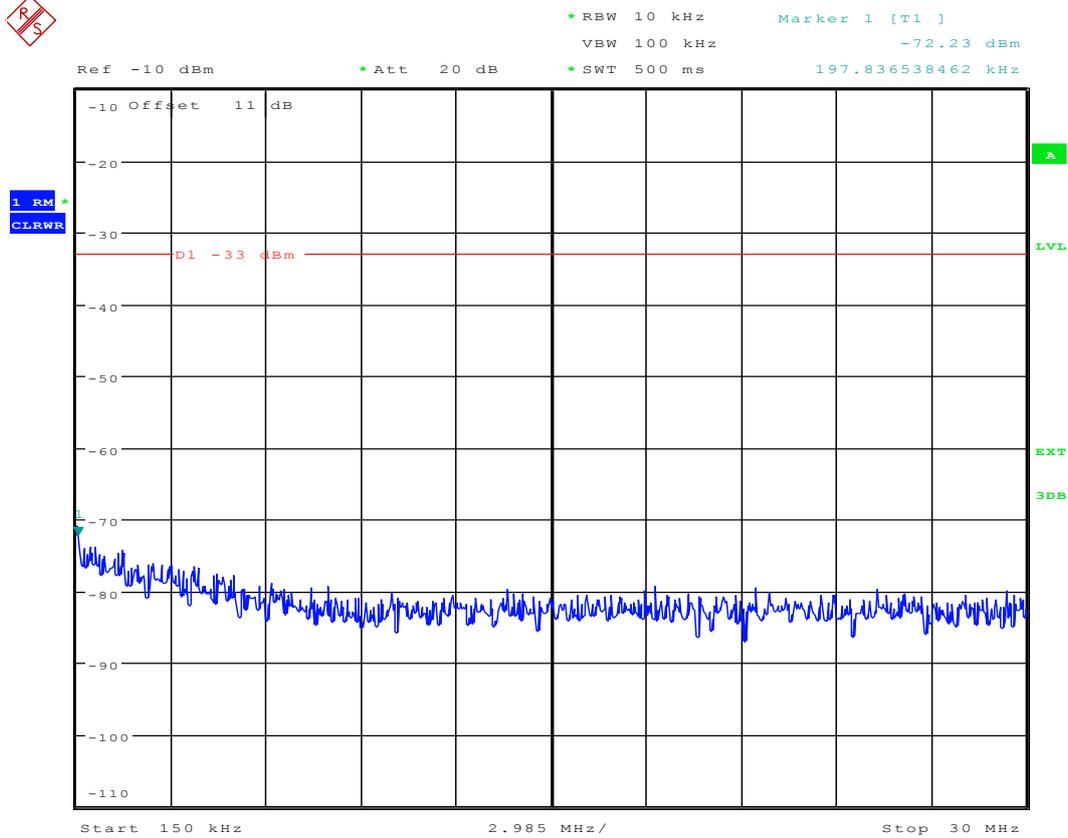
| EUT Conf. | Maximum Emission [dBm] | Verdict |
|-----------|------------------------|---------|
| 5M_B | <-13 | Pass |
| 5M_M | <-13 | Pass |
| 5M_T | <-13 | Pass |
| 10M_B | <-13 | Pass |
| 10M_M | <-13 | Pass |
| 10M_T | <-13 | Pass |
| 1U_B | <-13 | Pass |
| 1U_M | <-13 | Pass |
| 1U_T | <-13 | Pass |

2 Test Plot

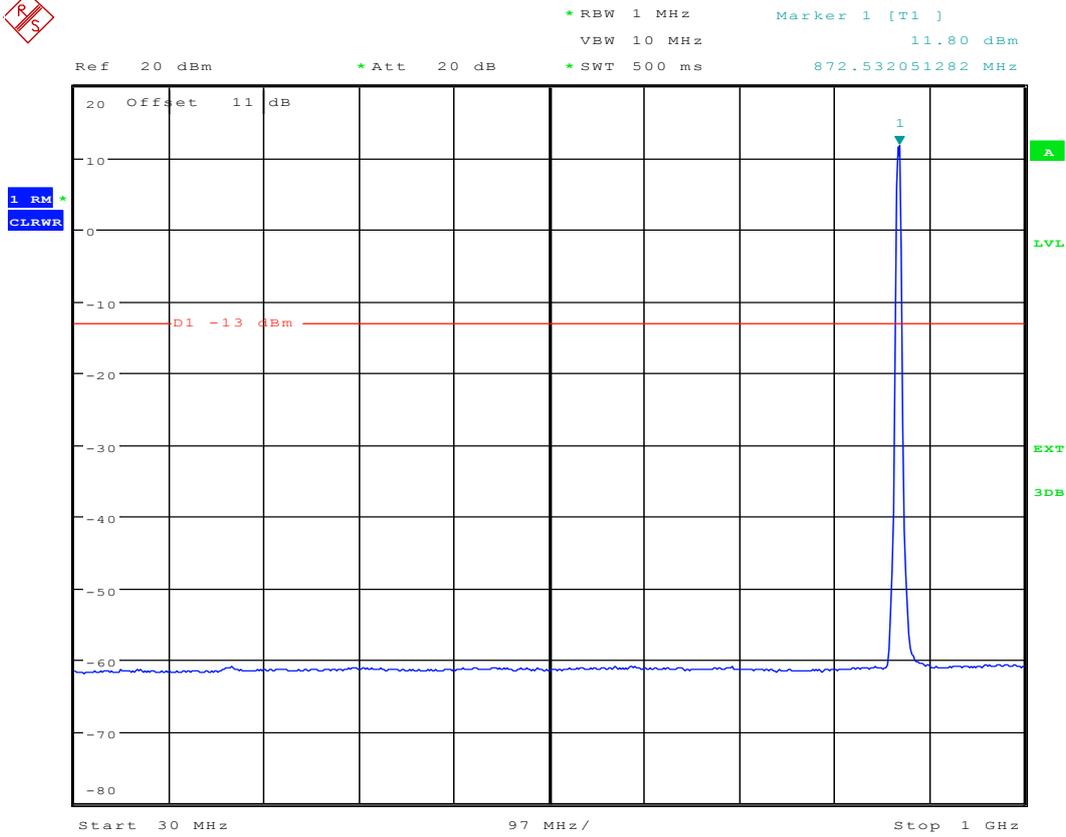
2.1 5M_B



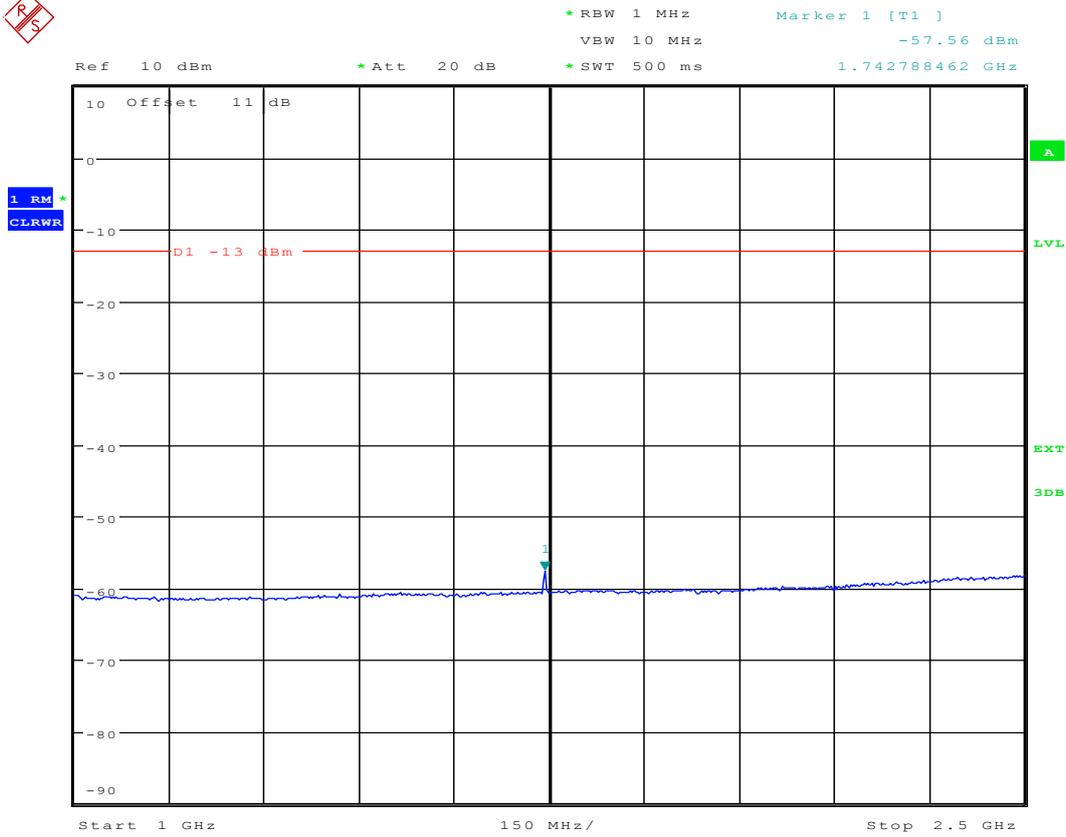
Date: 18.NOV.2015 16:27:36



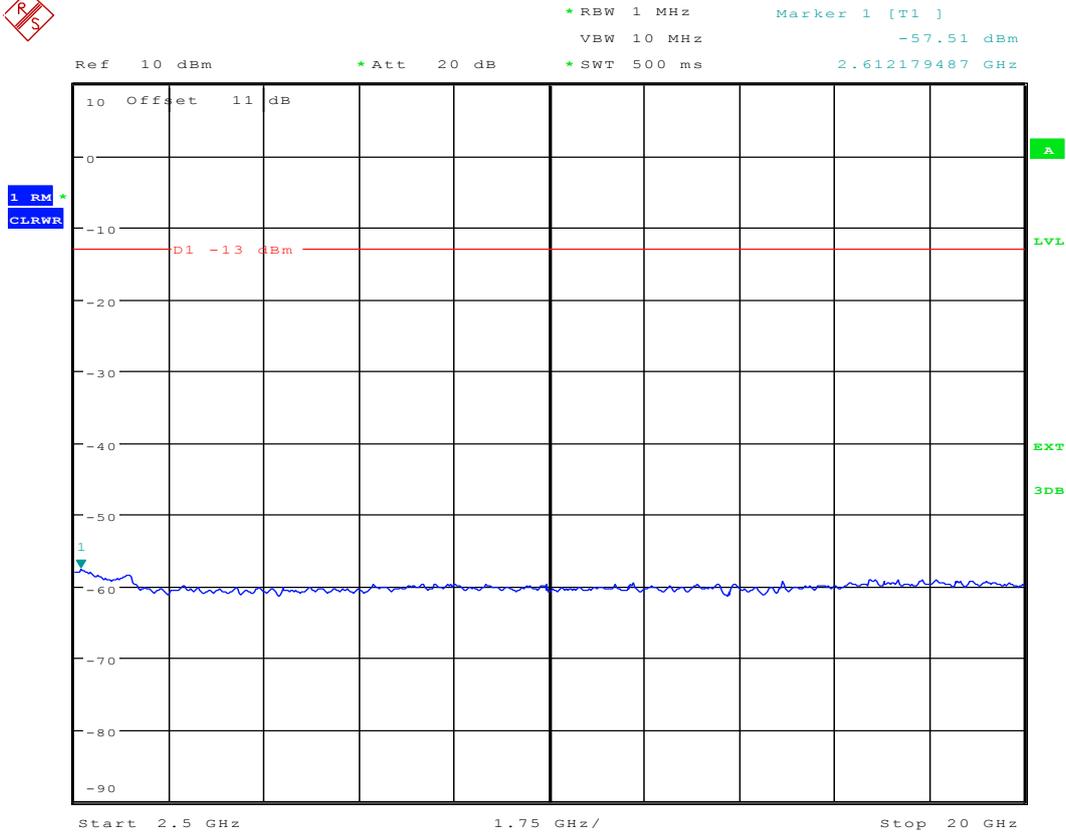
Date: 18.NOV.2015 16:29:50



Date: 18.NOV.2015 16:31:33

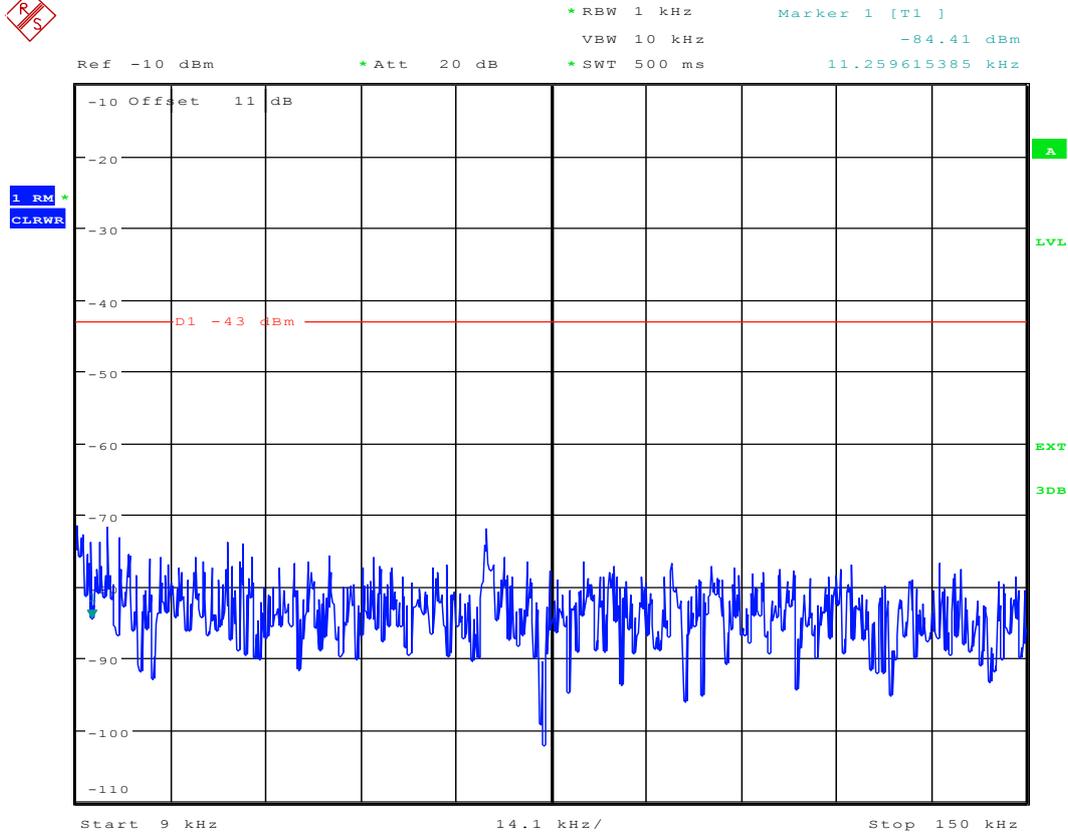


Date: 18.NOV.2015 16:32:02

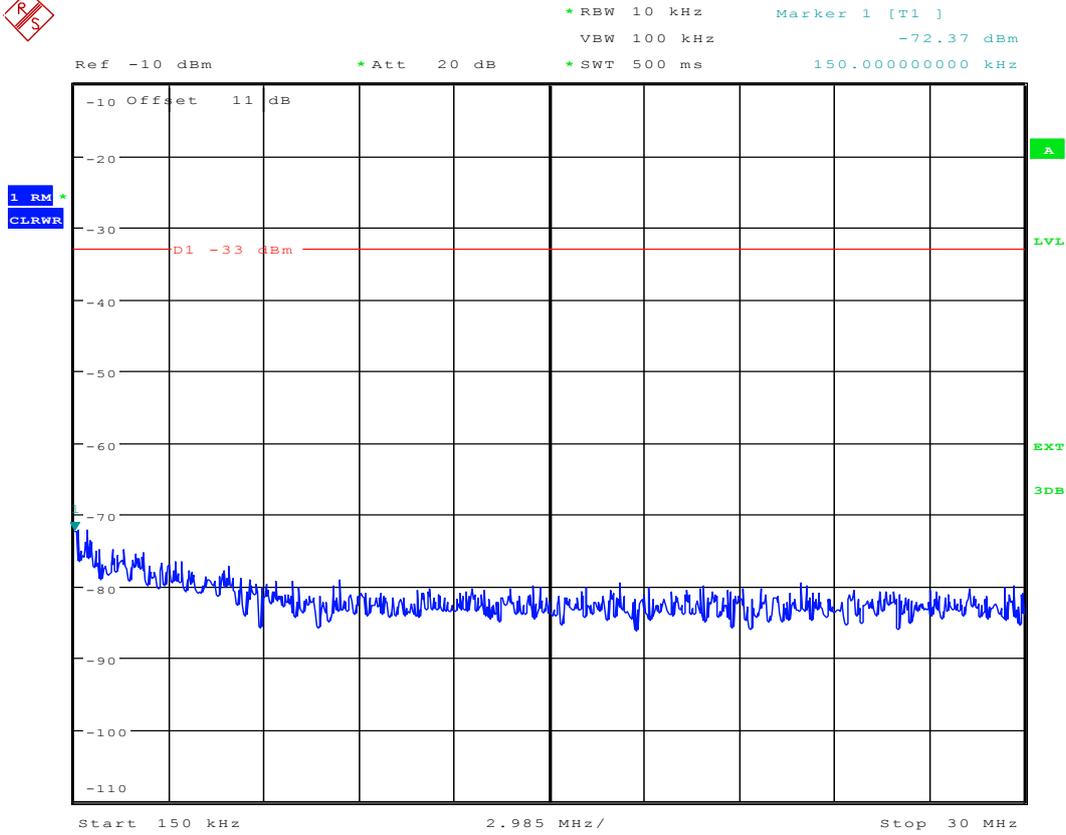


Date: 18.NOV.2015 16:32:25

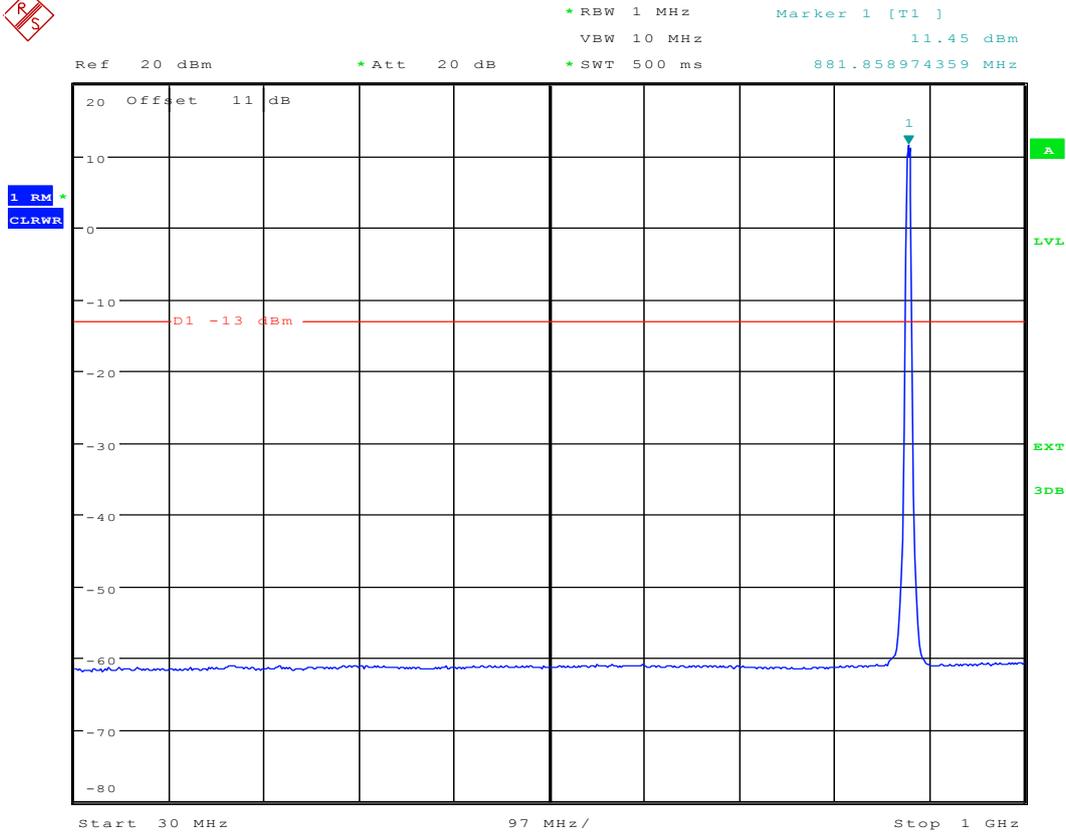
2.2 5M_M



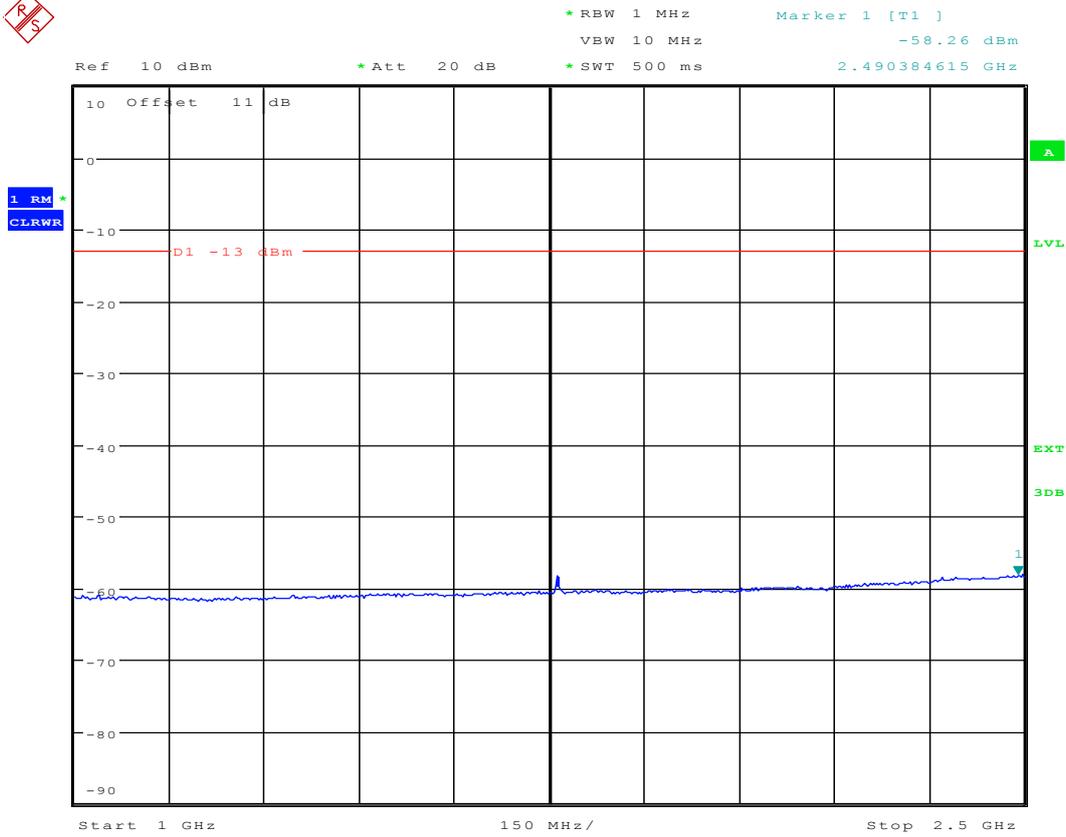
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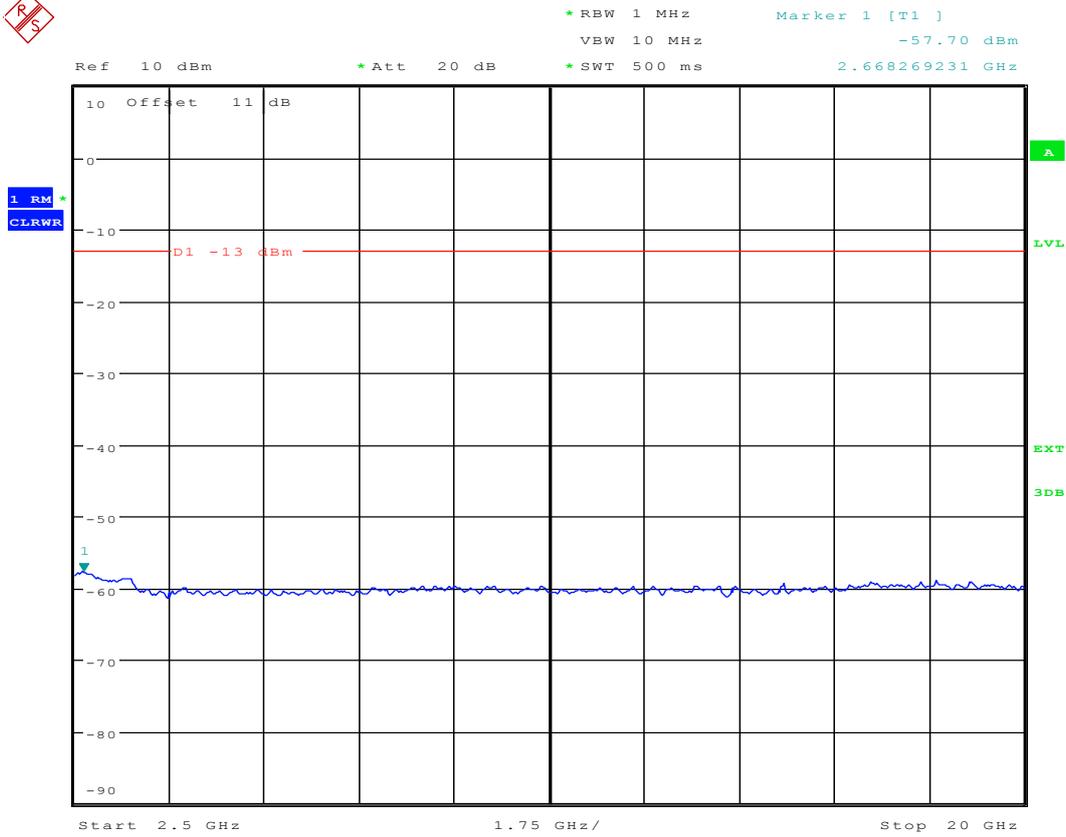
Date: 18.NOV.2015 16:35:17



Date: 18.NOV.2015 16:34:36

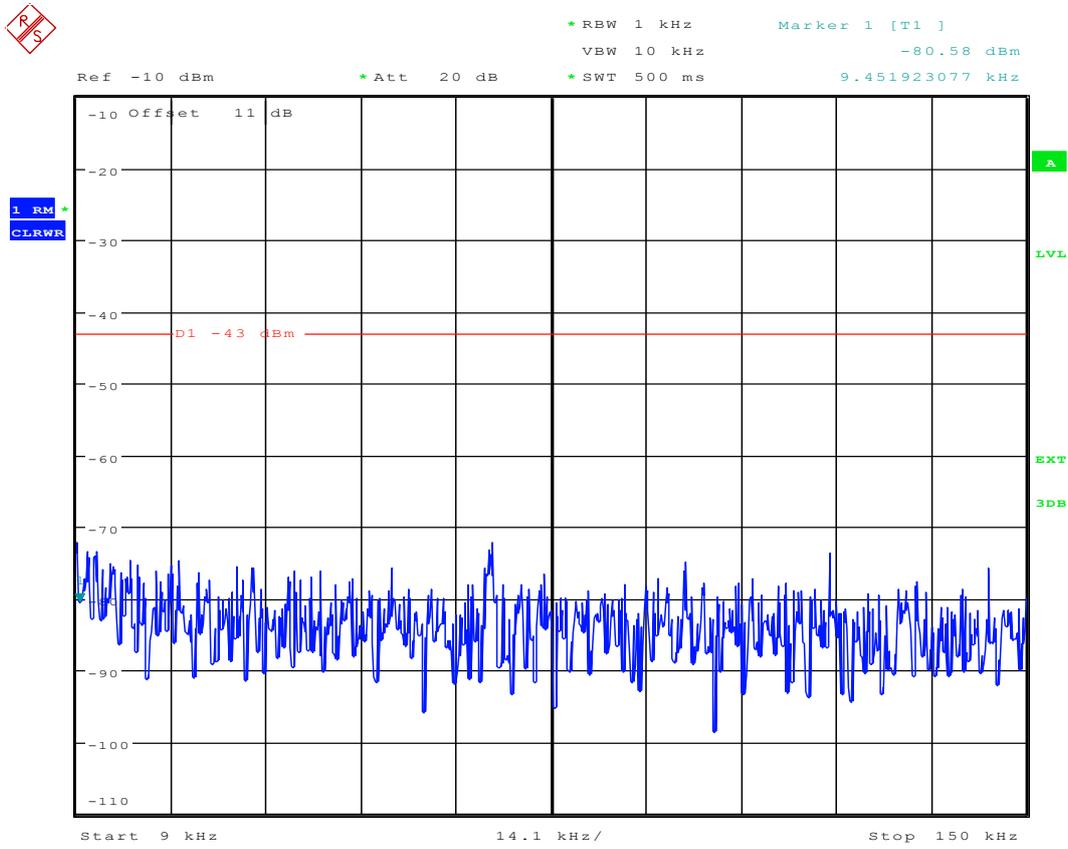


Date: 18.NOV.2015 16:34:14

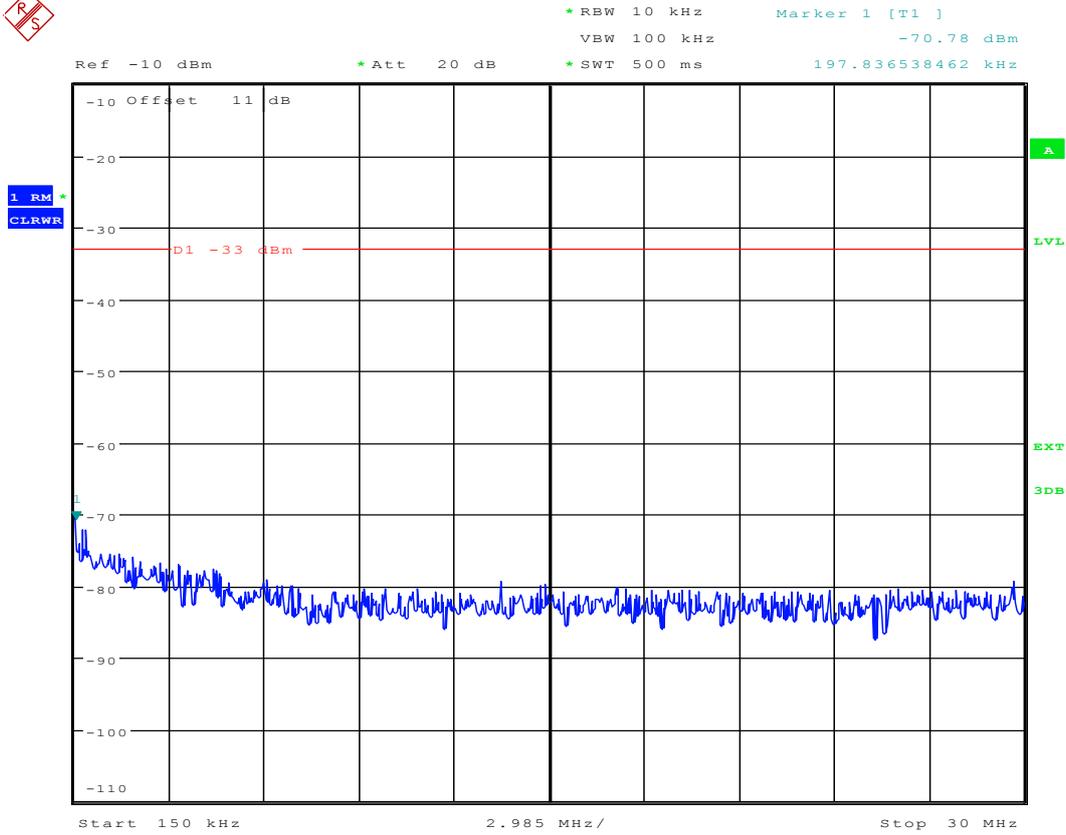


Date: 18.NOV.2015 16:33:15

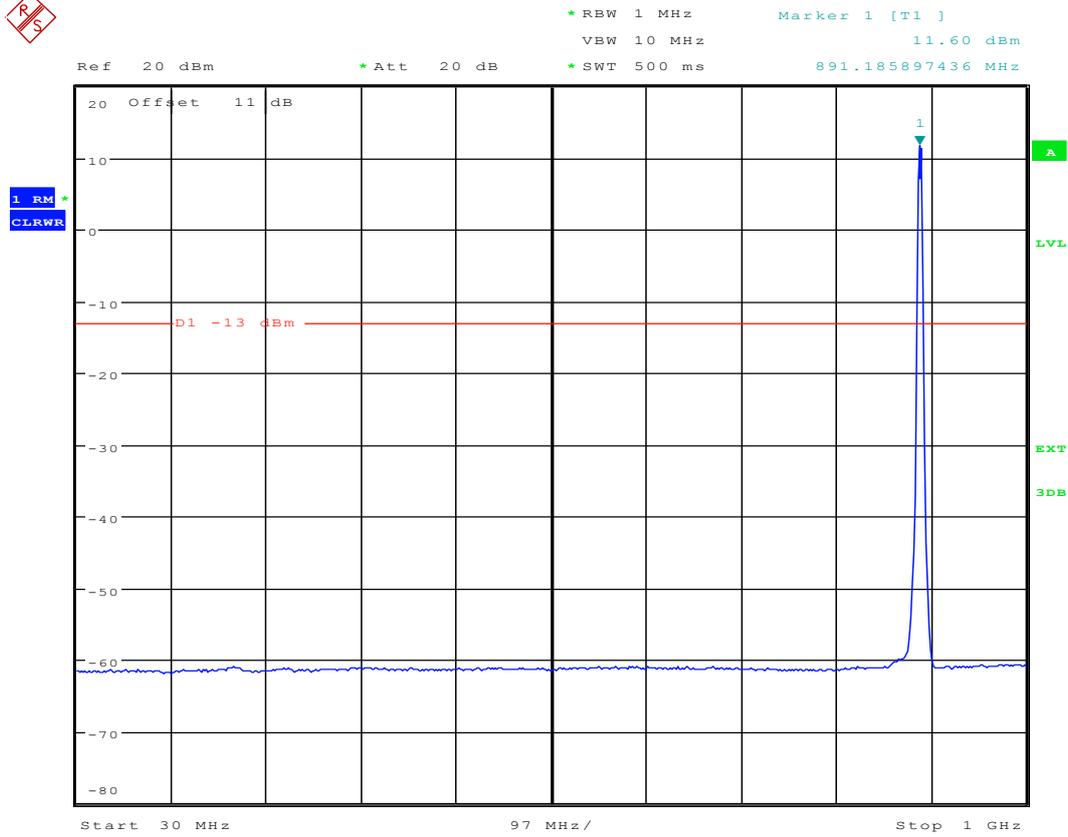
2.3 5M_T



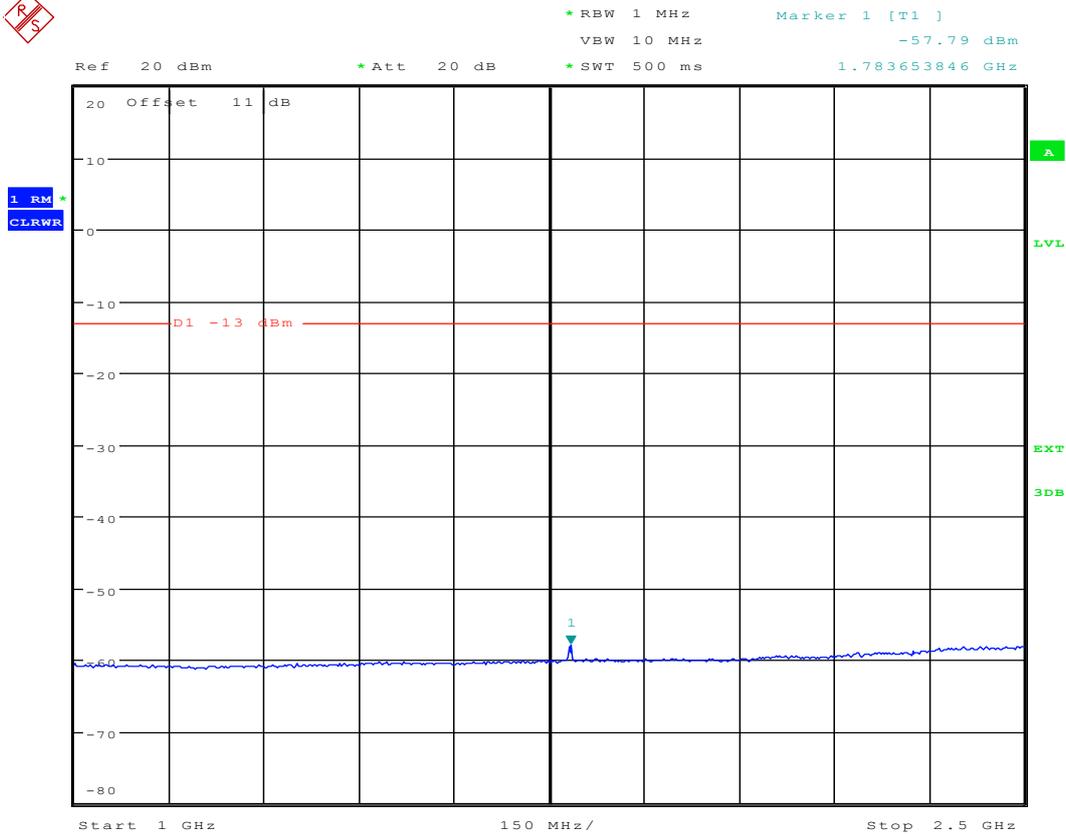
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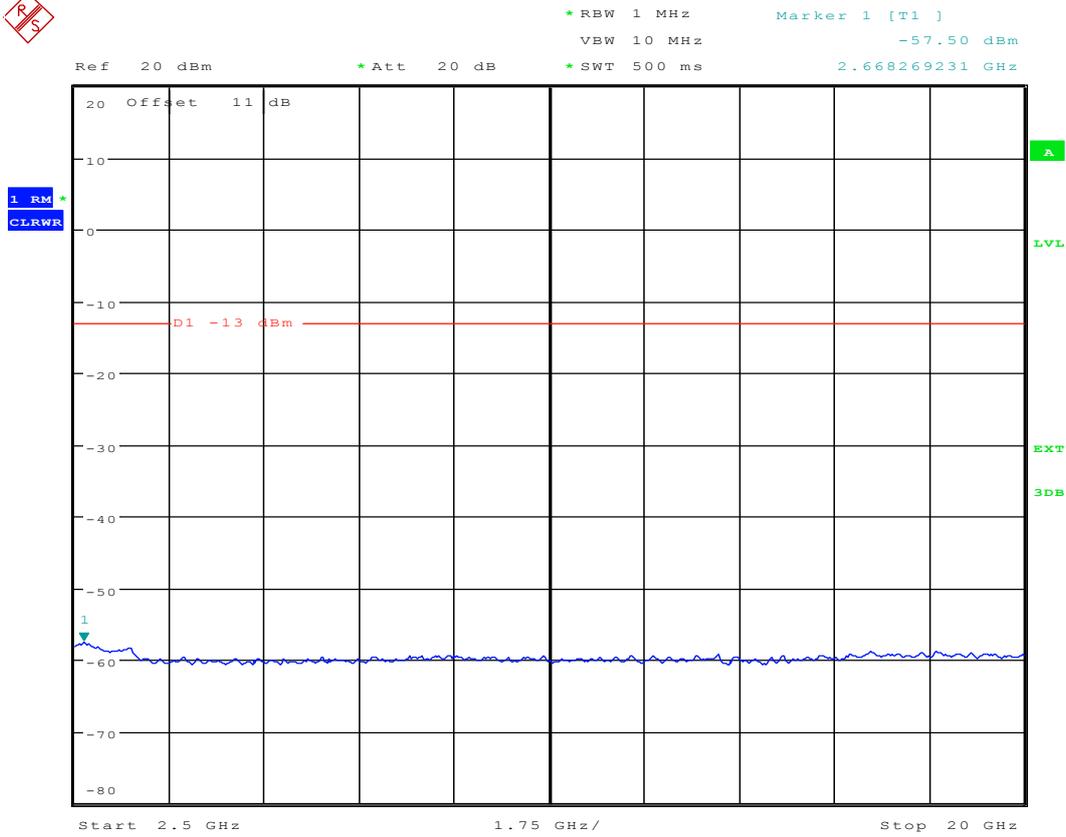
Date: 18.NOV.2015 16:37:09



Date: 18.NOV.2015 16:37:41

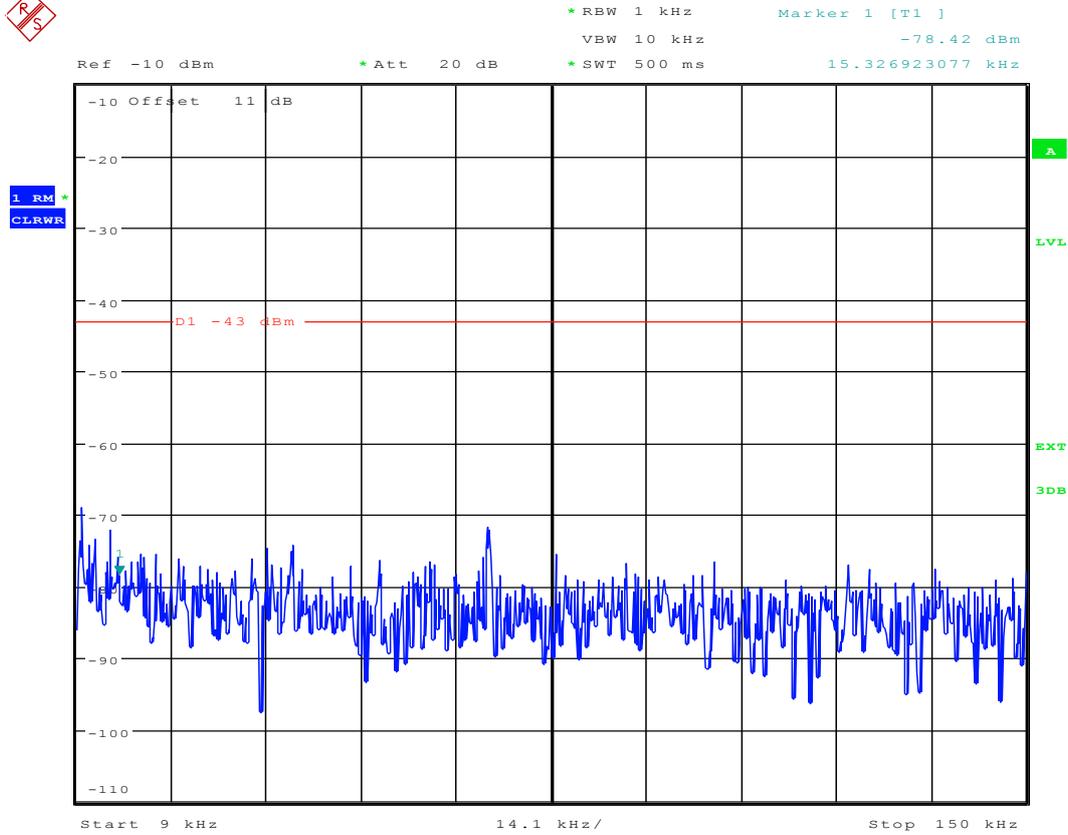


Date: 18.NOV.2015 16:38:02

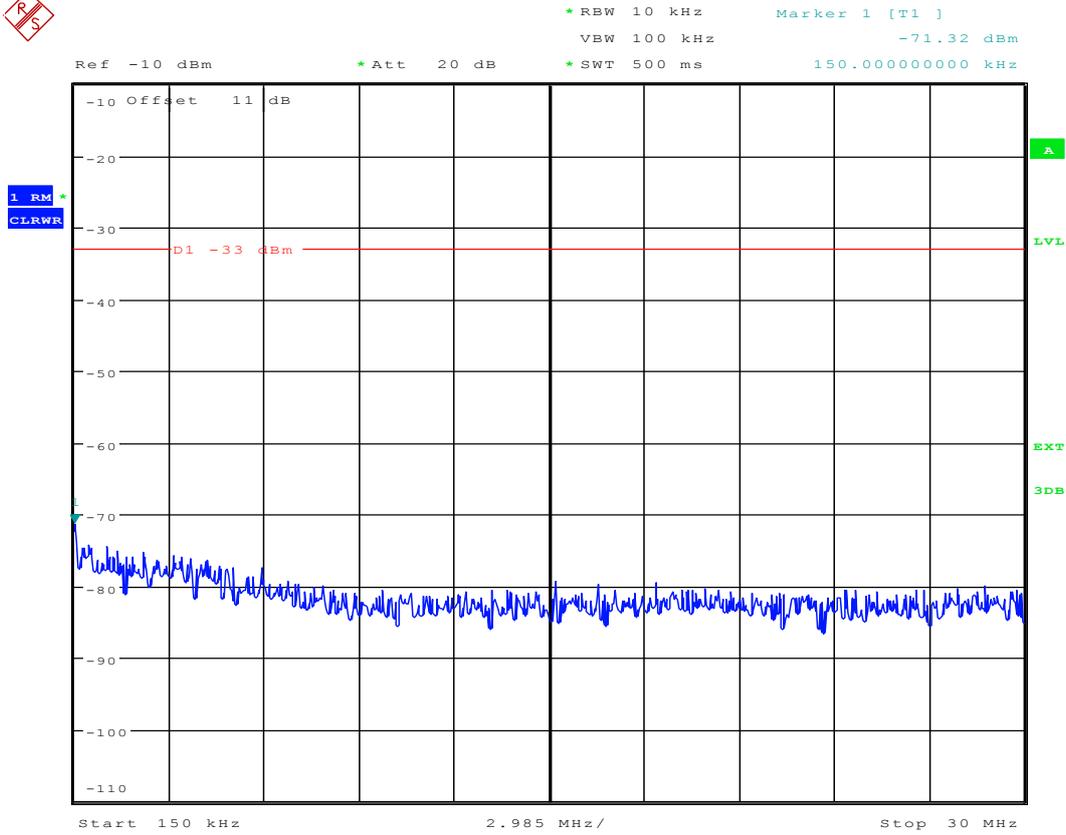


Date: 18.NOV.2015 16:38:20

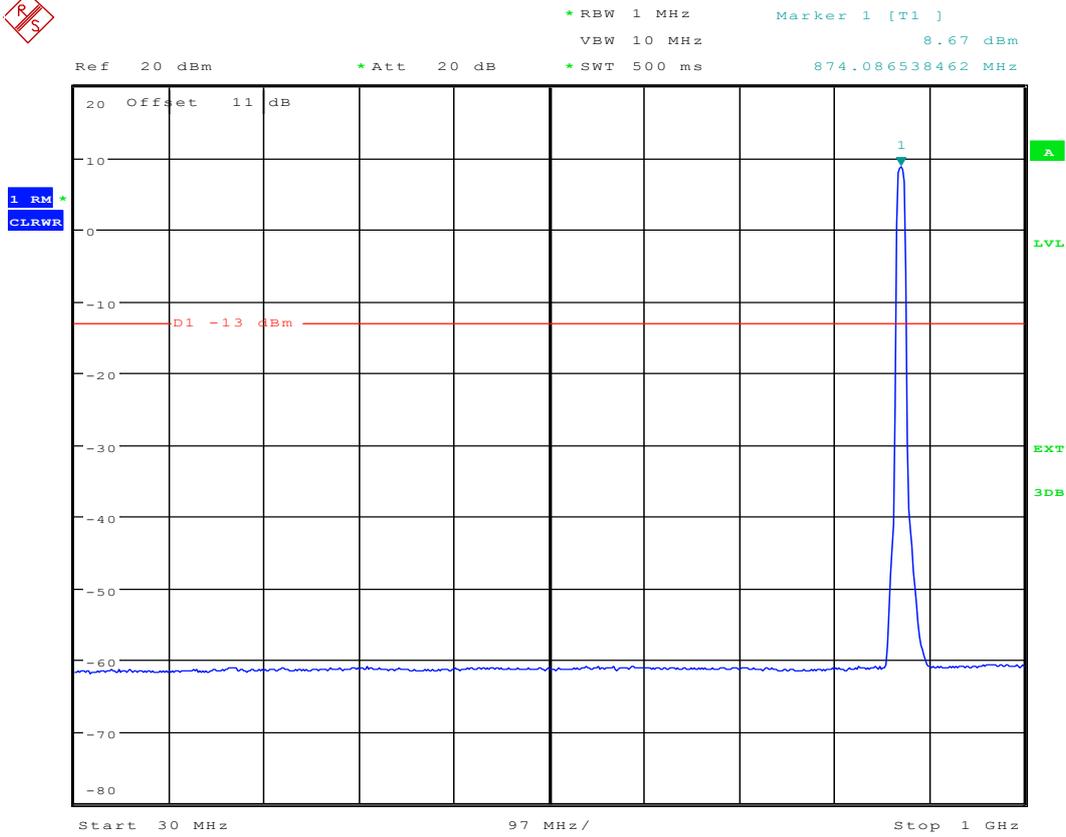
2.4 10M_B



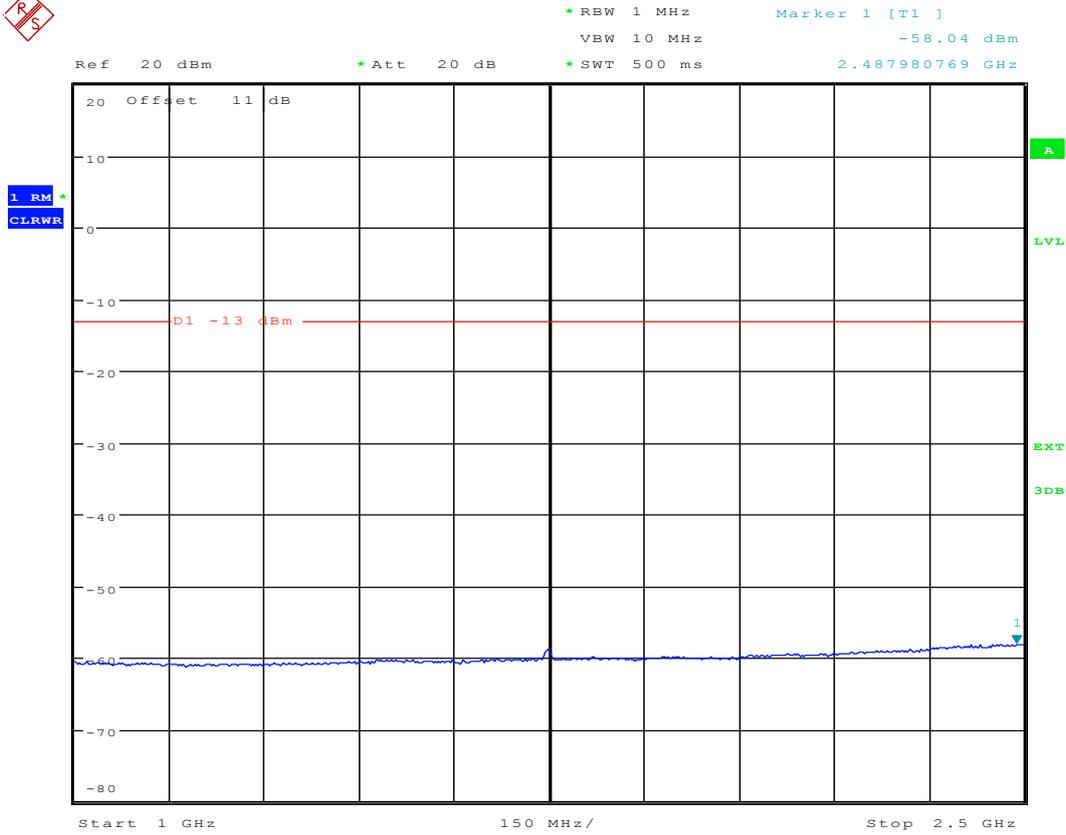
Date: 18.NOV.2015 16:41:00



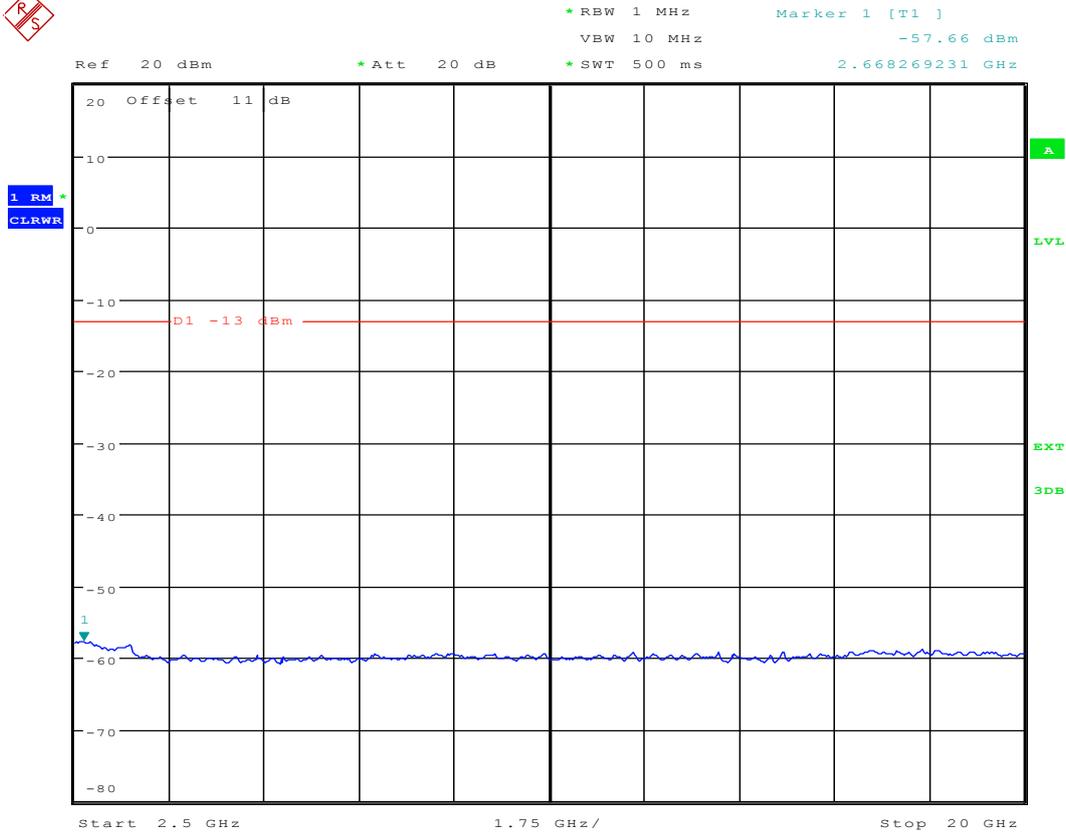
Date: 18.NOV.2015 16:40:29



Date: 18.NOV.2015 16:39:52

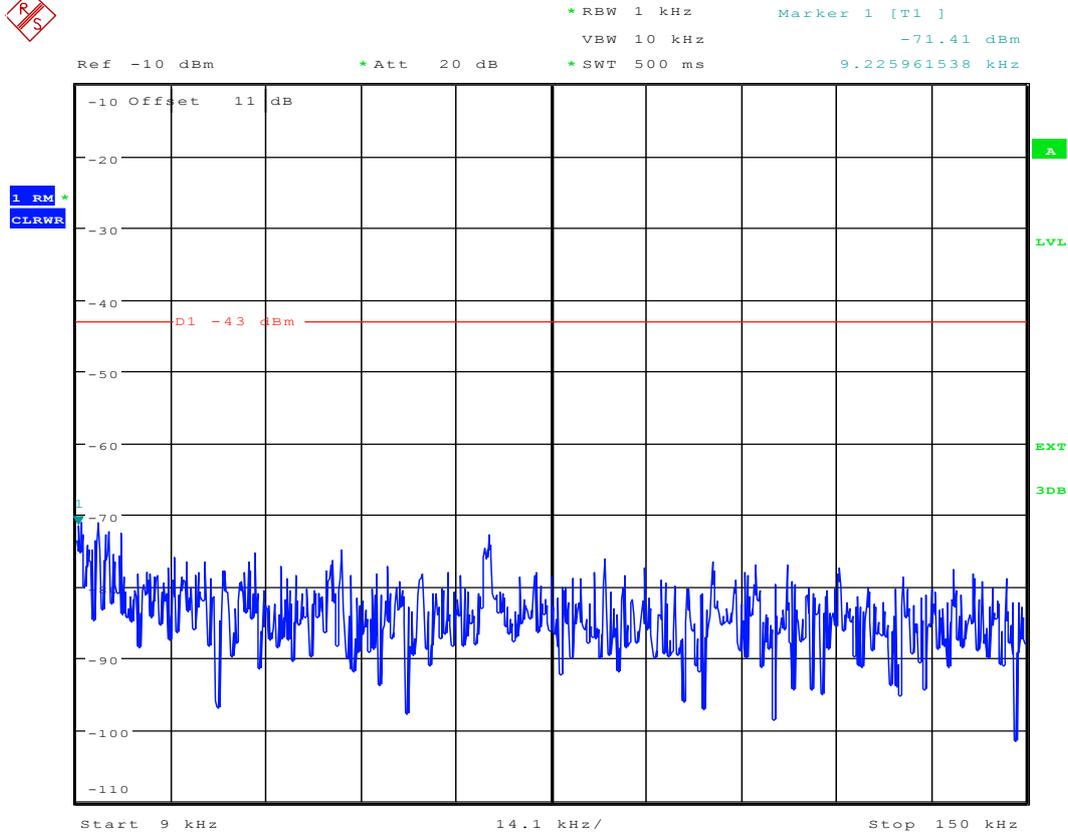


Date: 18.NOV.2015 16:39:29

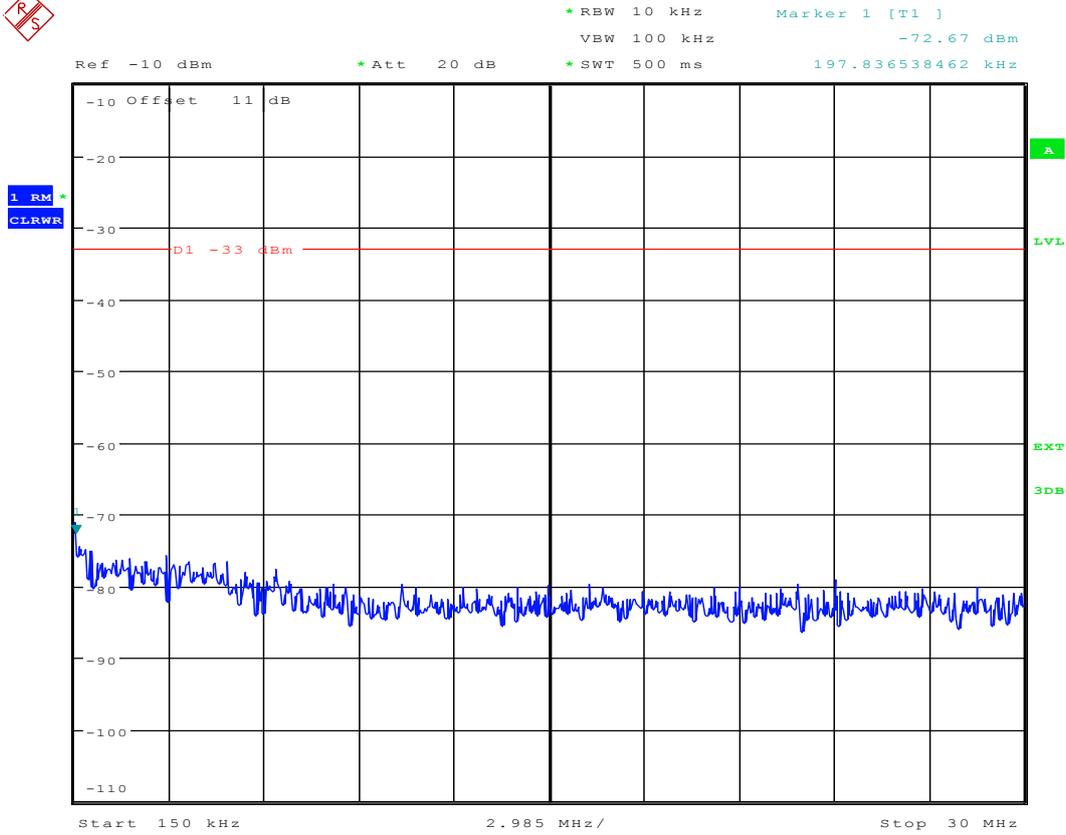


Date: 18.NOV.2015 16:39:08

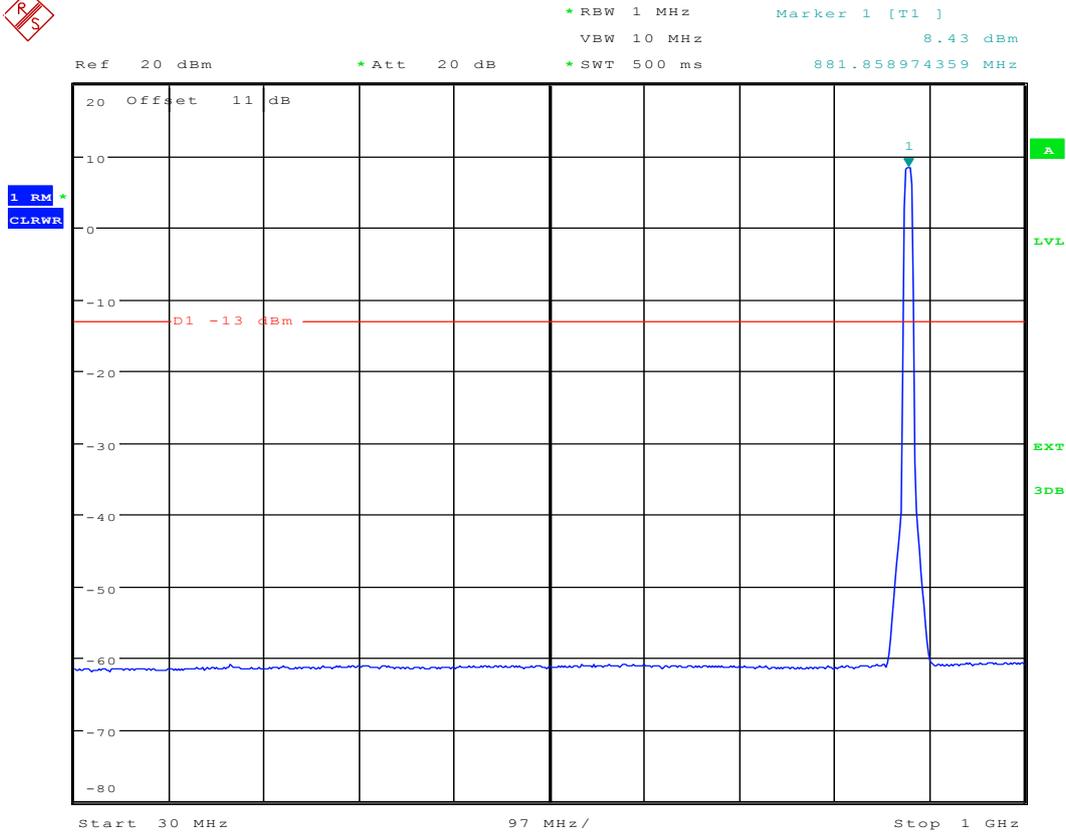
2.5 10M_M



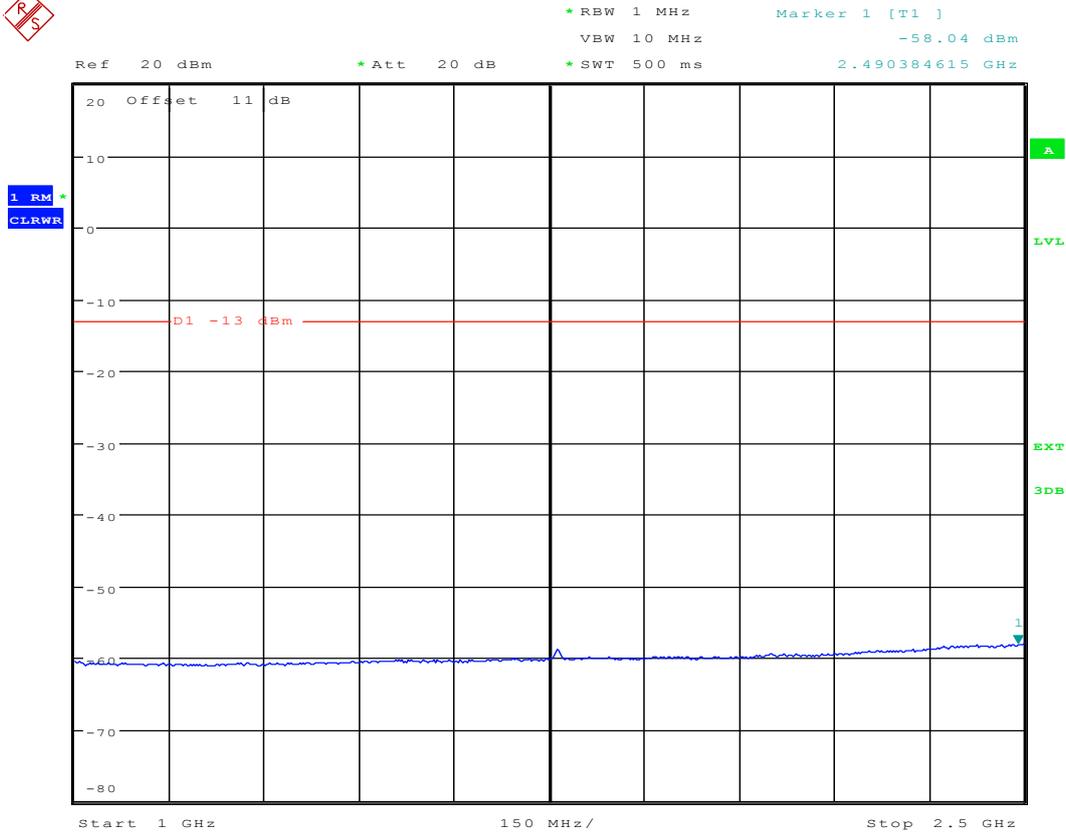
Date: 18.NOV.2015 16:41:39



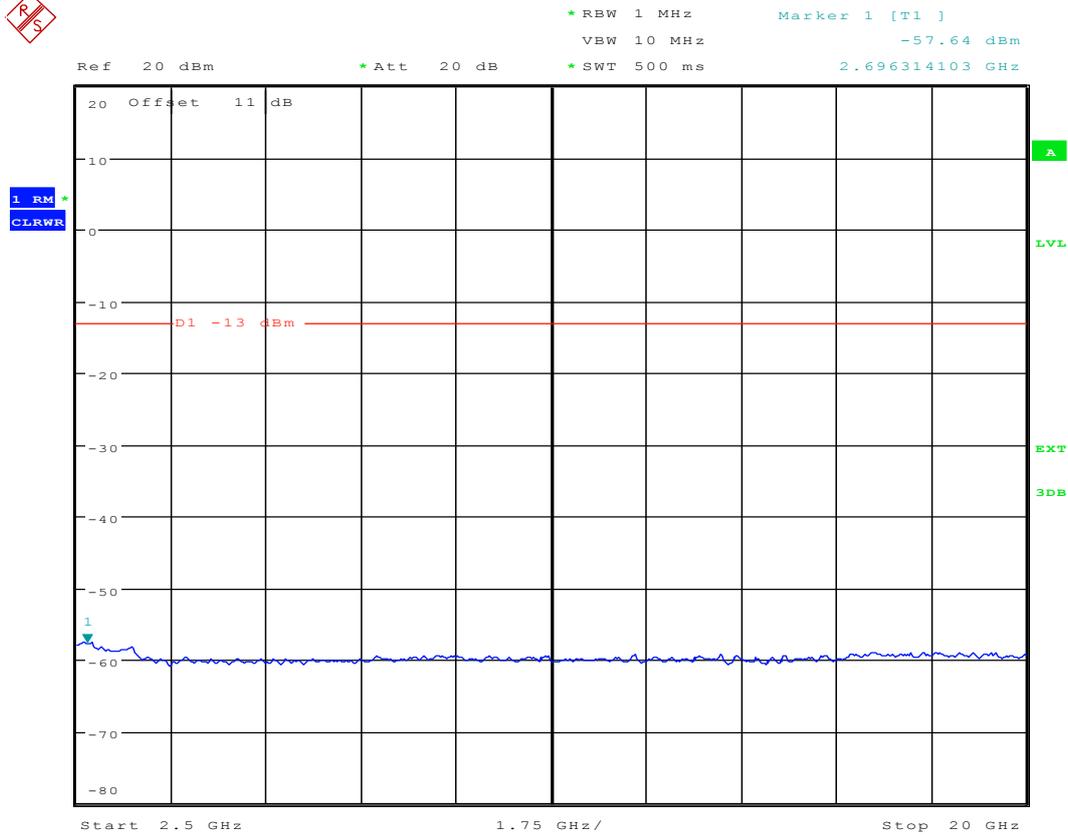
Date: 18.NOV.2015 16:42:41



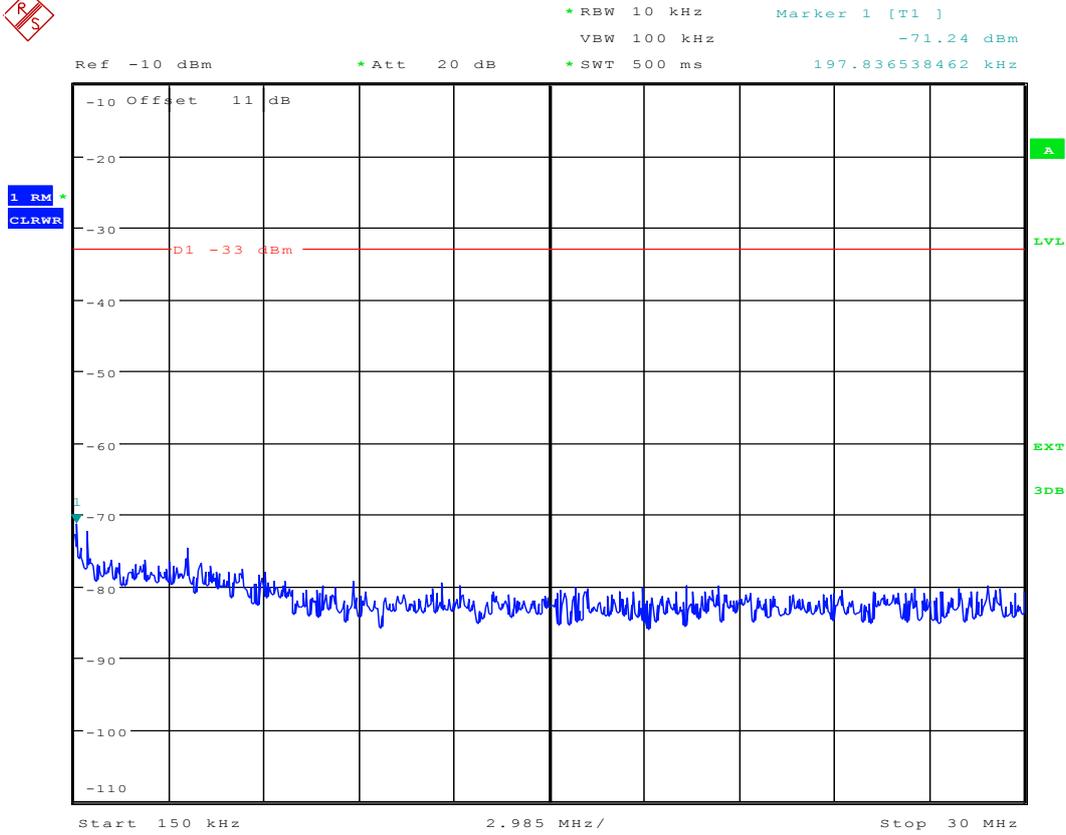
Date: 18.NOV.2015 16:44:11



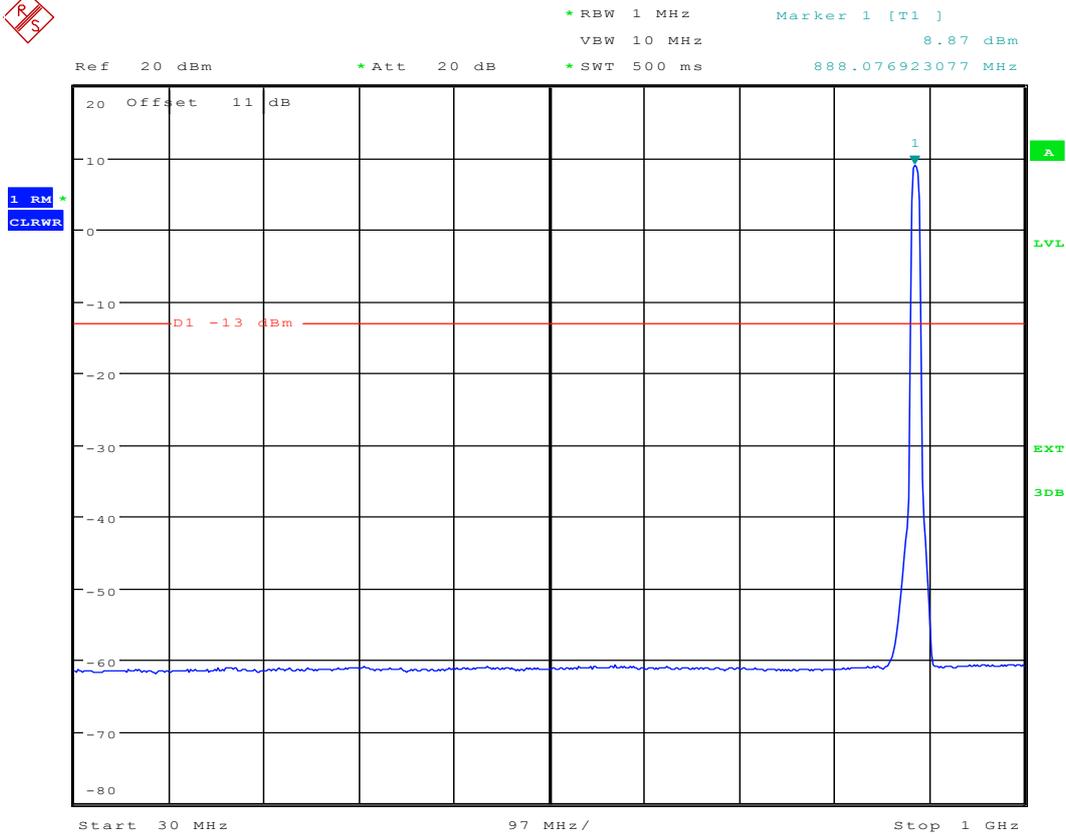
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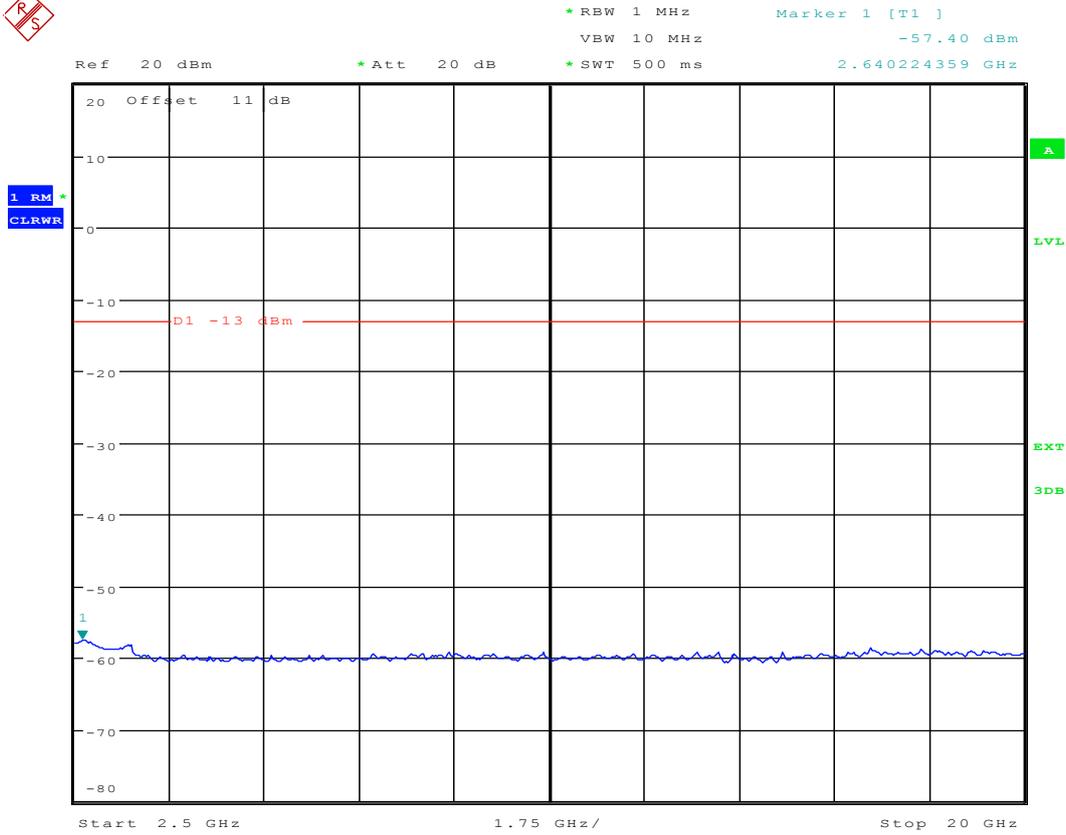
Date: 18.NOV.2015 16:45:18



Date: 18.NOV.2015 16:48:52

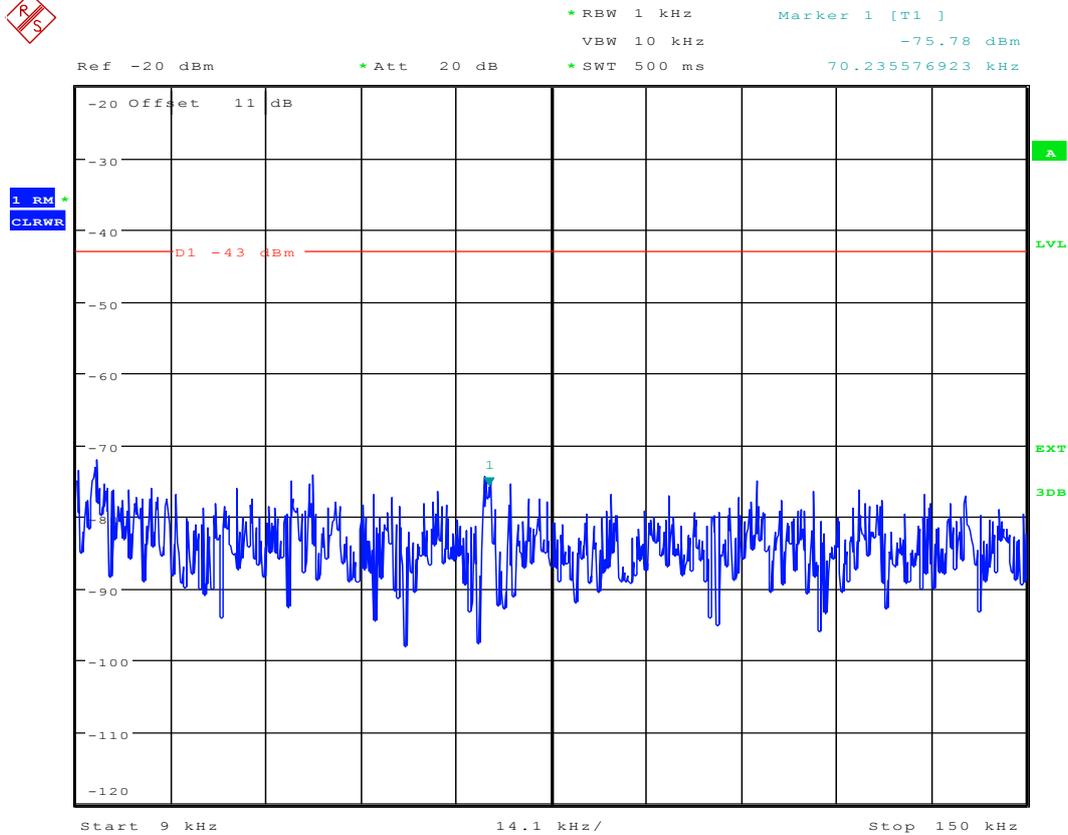


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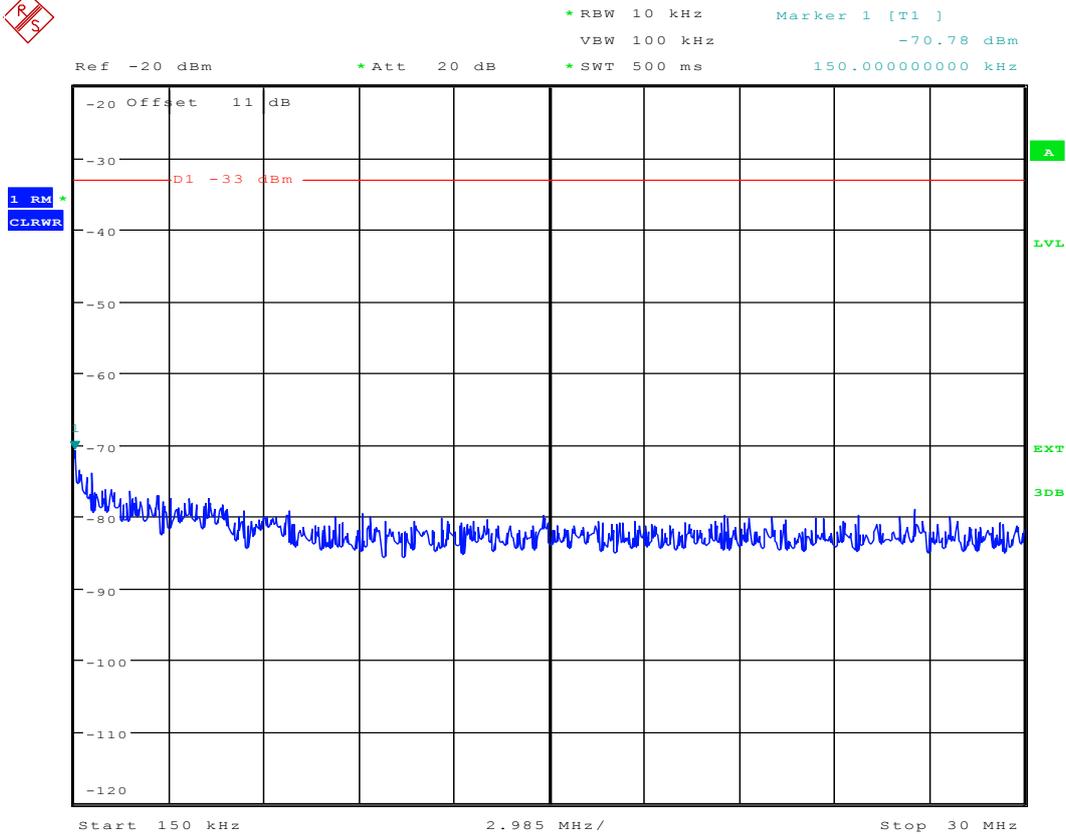


Date: 18.NOV.2015 16:46:18

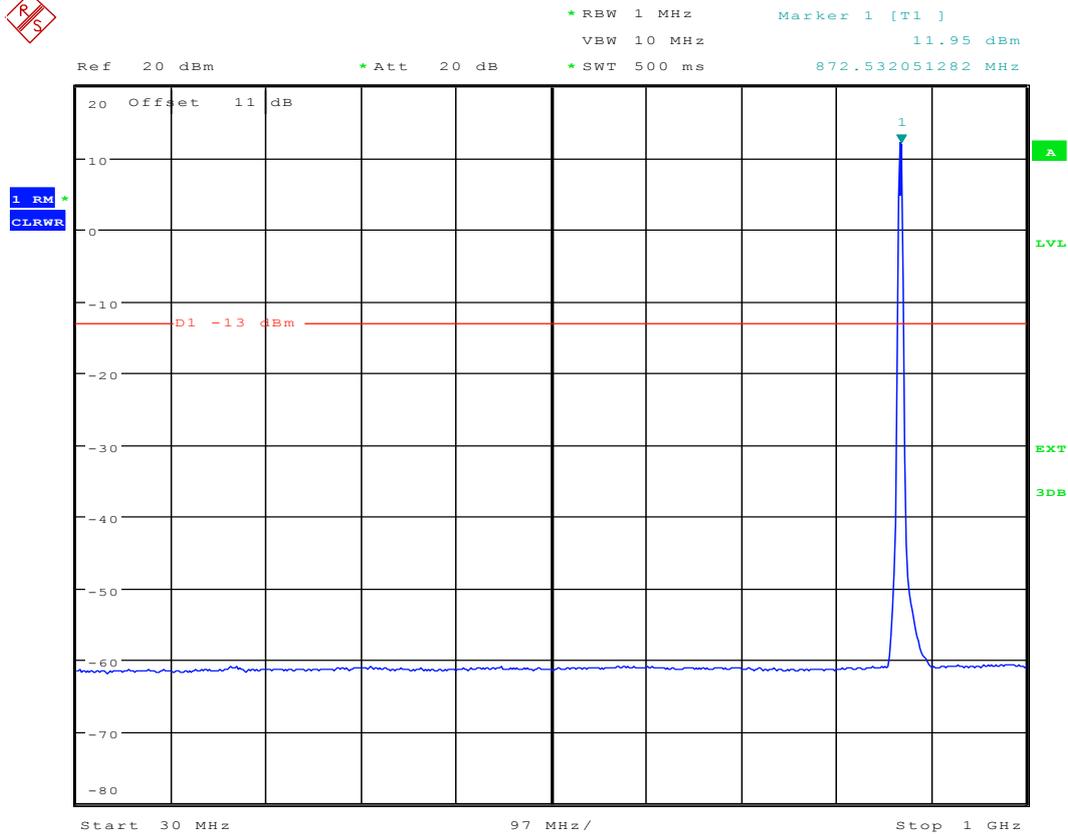
2.7 1U_B



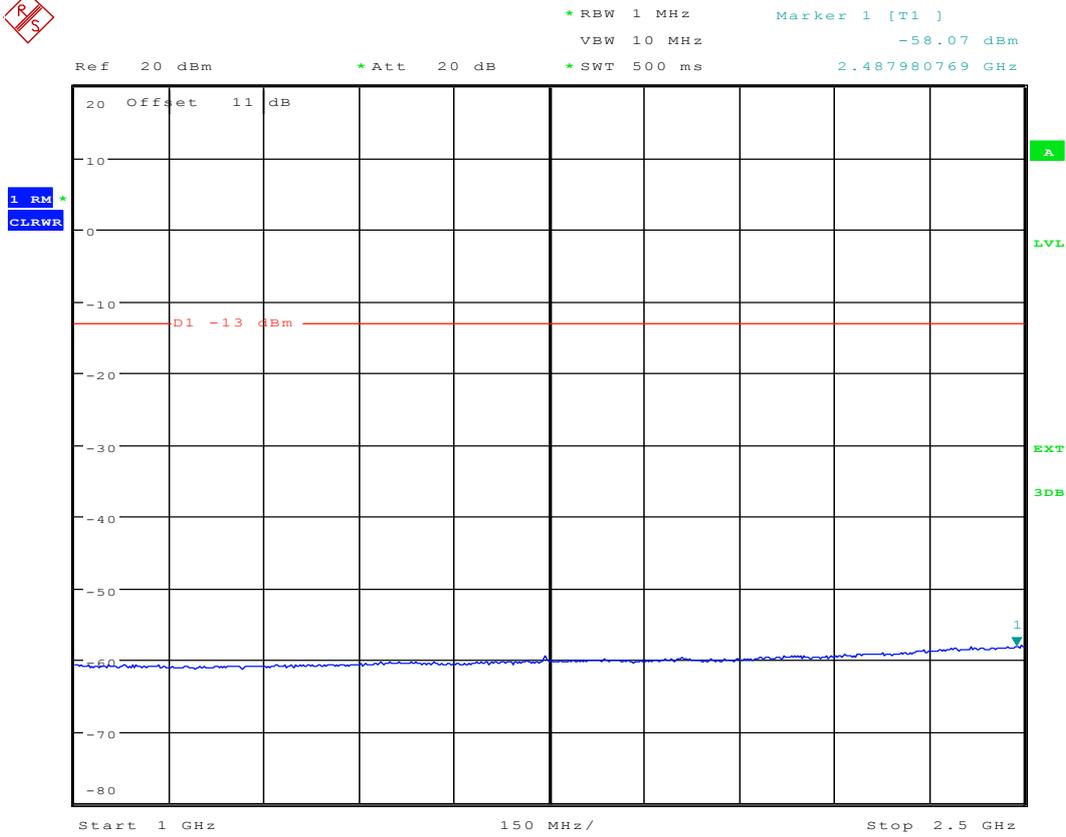
Date: 19.NOV.2015 08:34:34



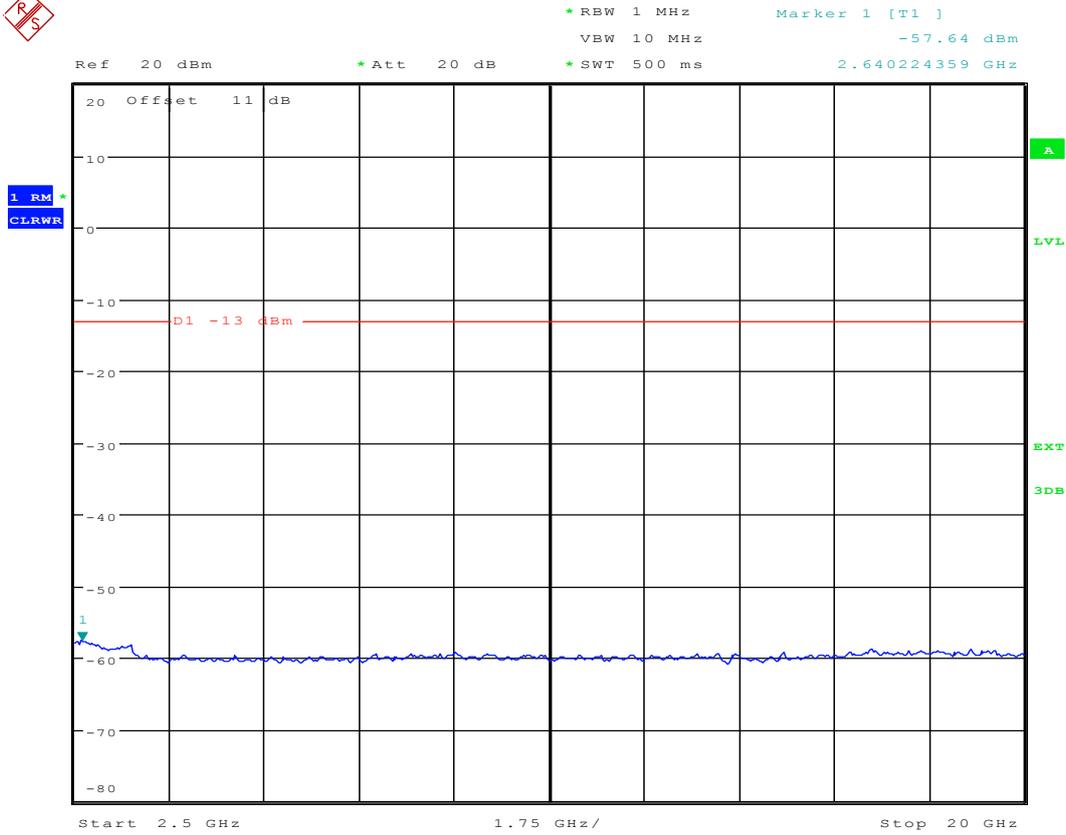
Date: 19.NOV.2015 08:35:15



Date: 20.NOV.2015 08:40:25

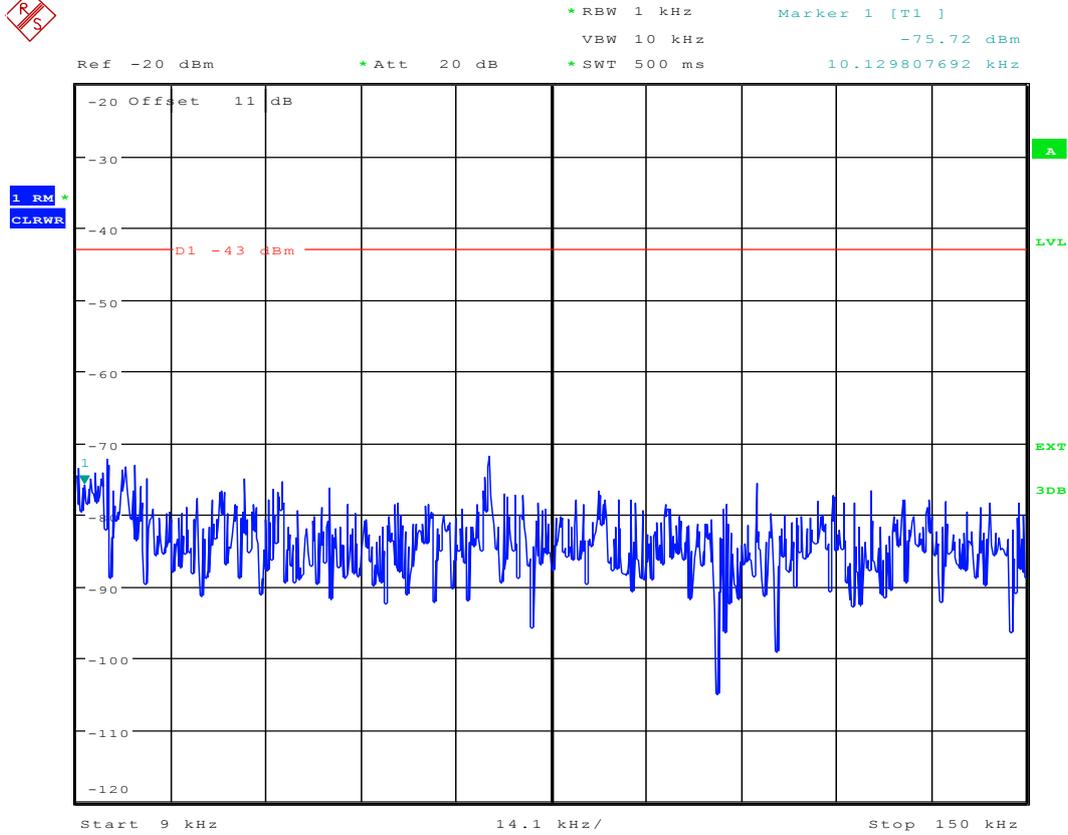


Date: 19.NOV.2015 08:36:24

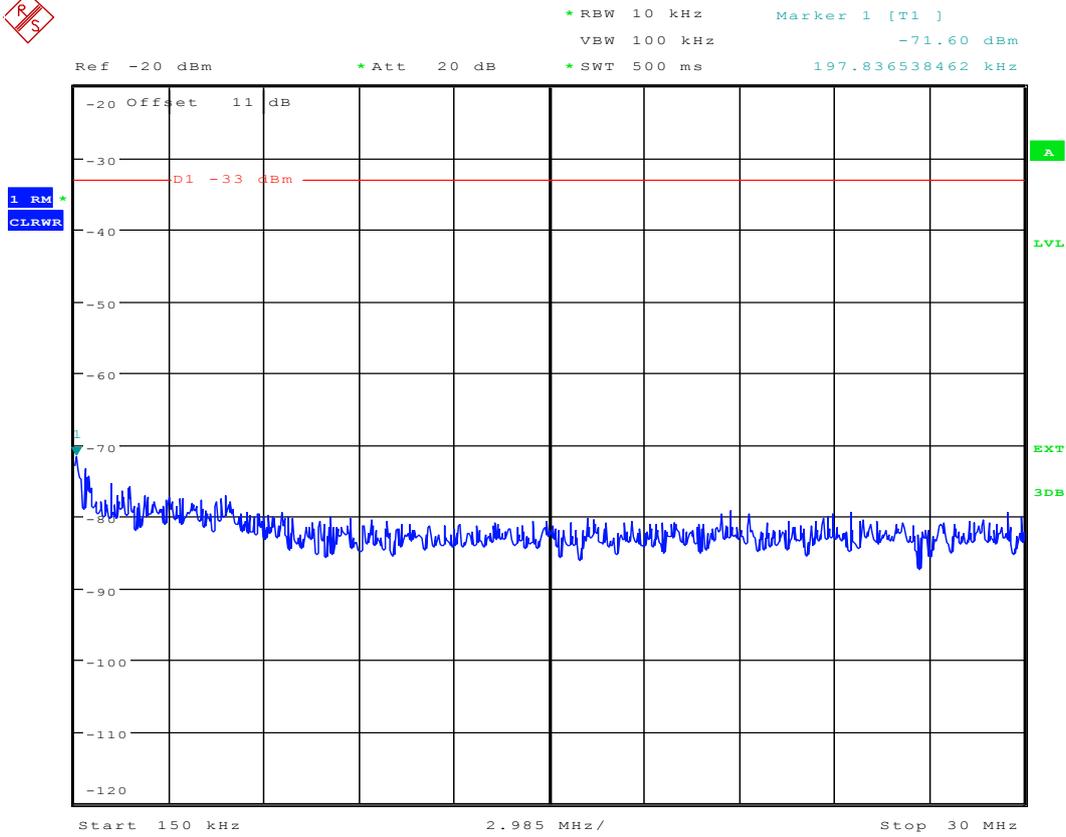


Date: 19.NOV.2015 08:36:40

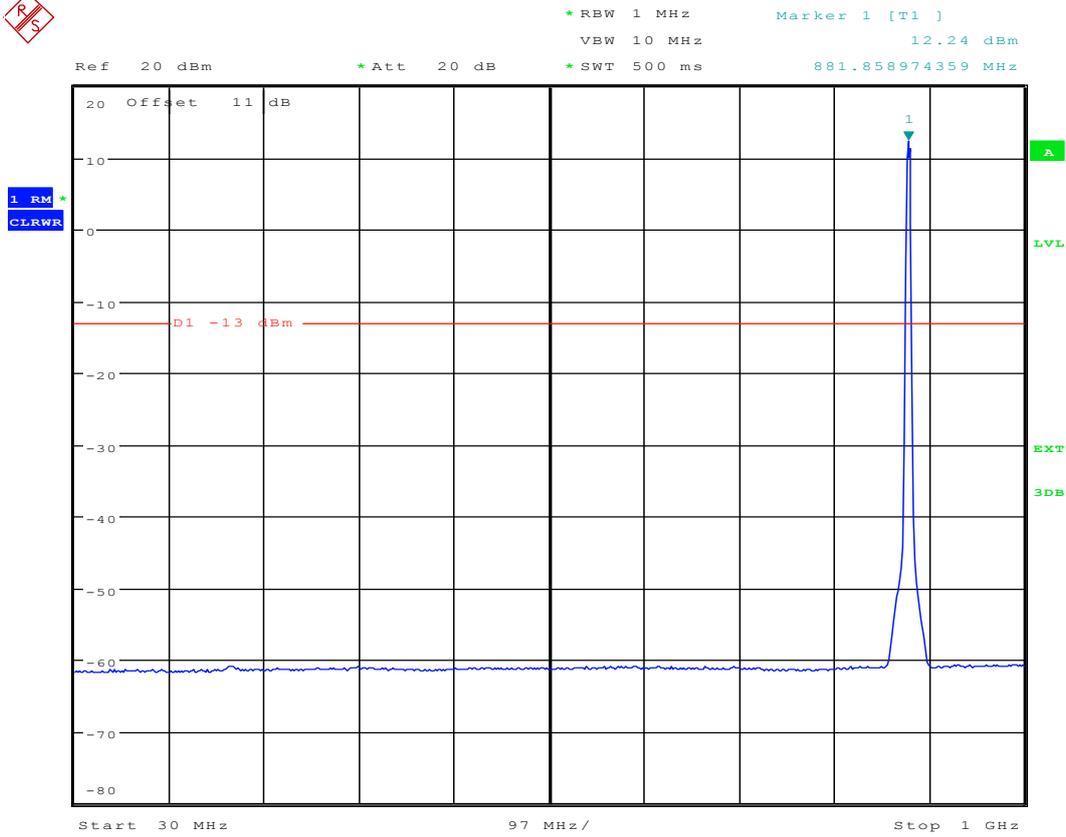
2.8 1U_M



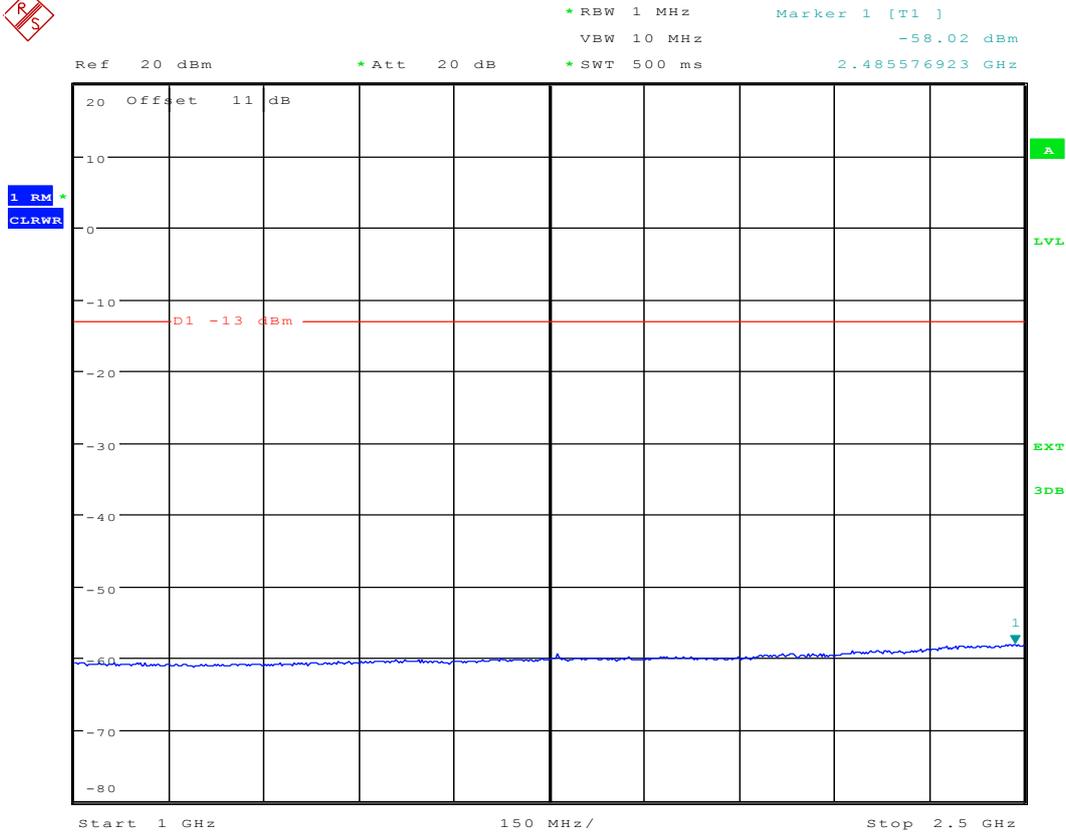
Date: 19.NOV.2015 08:41:15



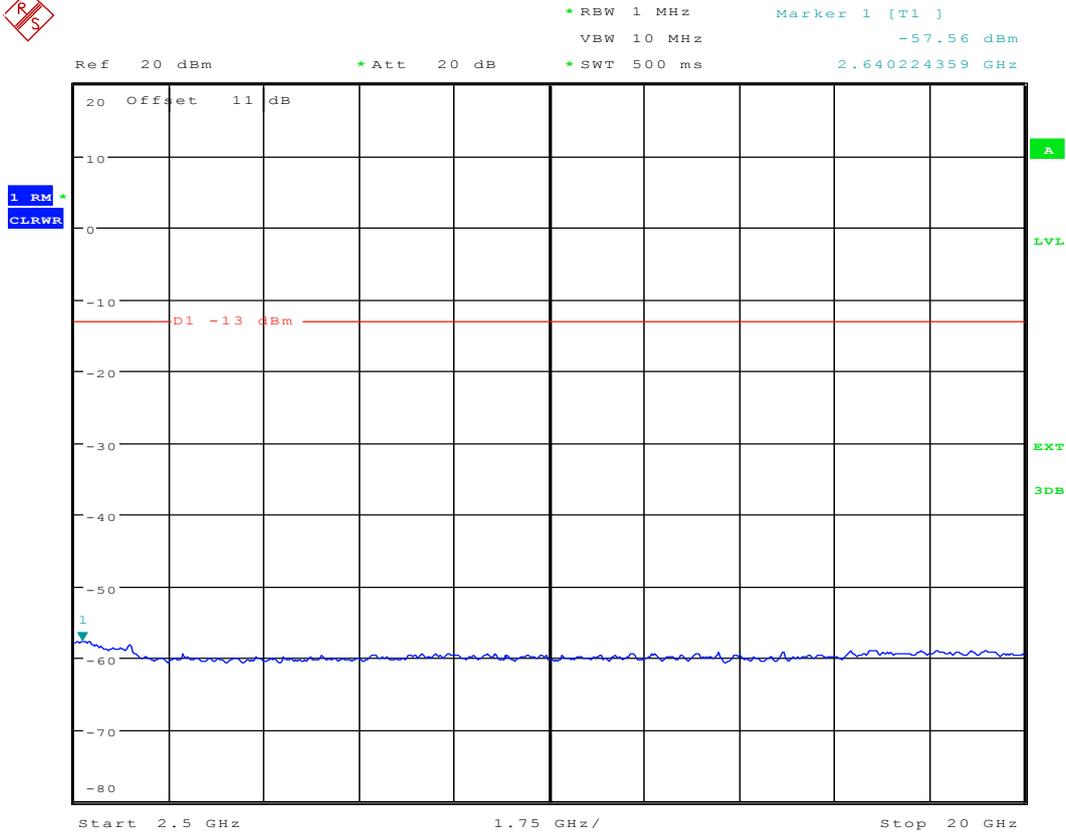
Date: 19.NOV.2015 08:40:29



Date: 20.NOV.2015 08:39:13

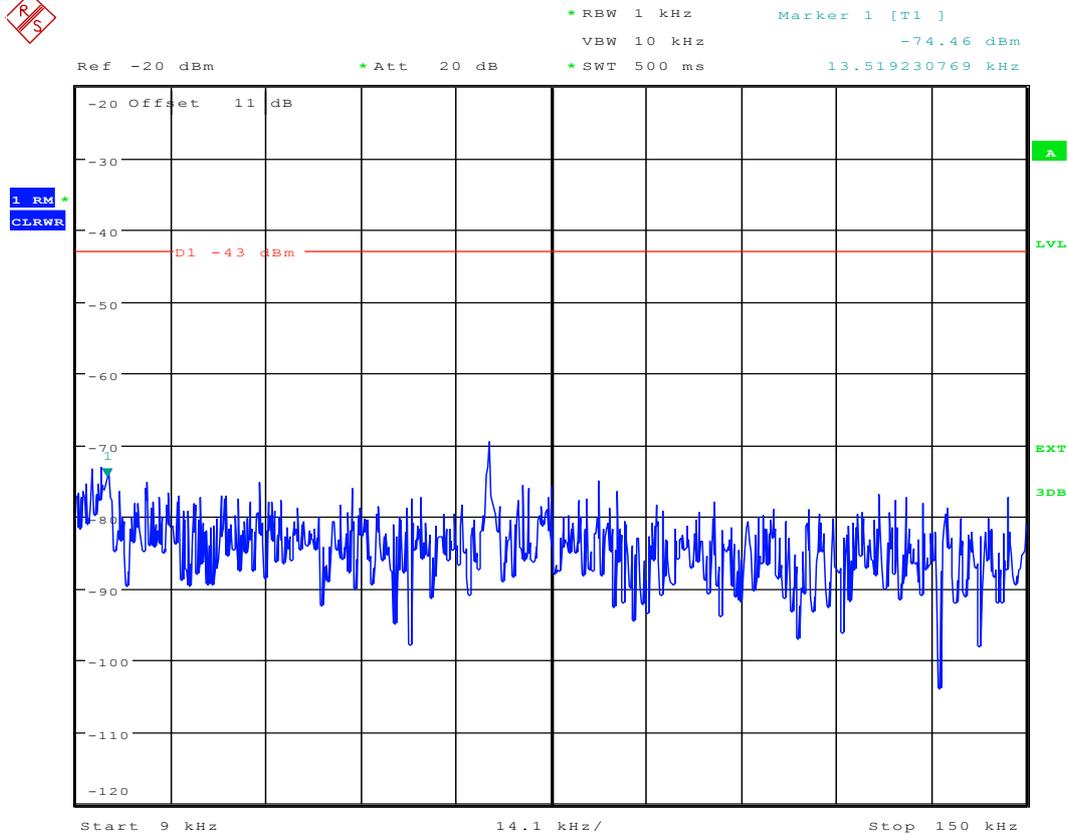


Date: 19.NOV.2015 08:39:38

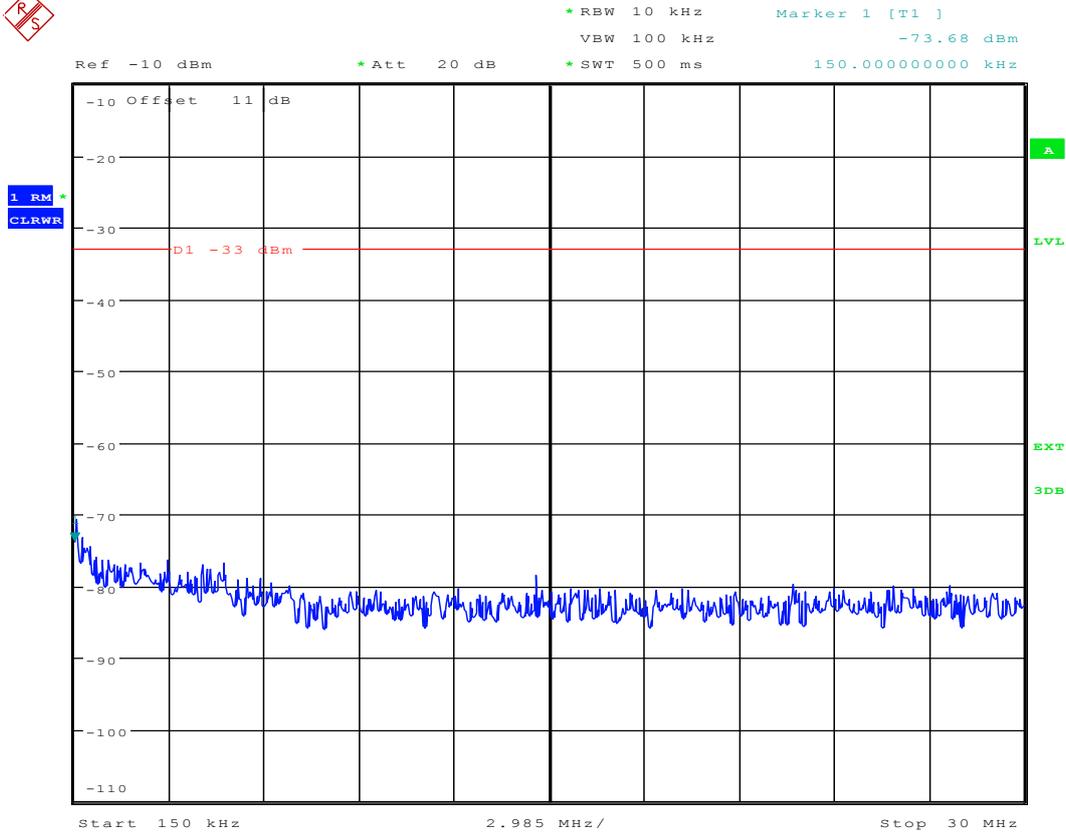


Date: 19.NOV.2015 08:39:17

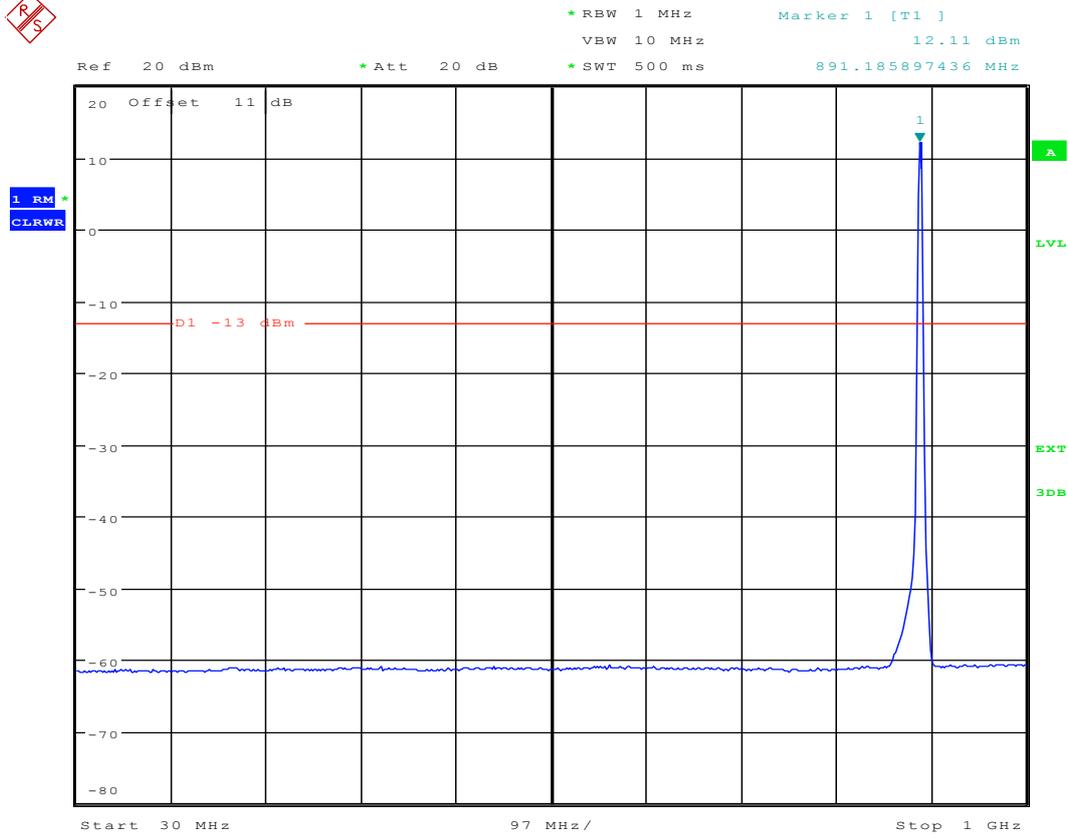
2.9 1U_T



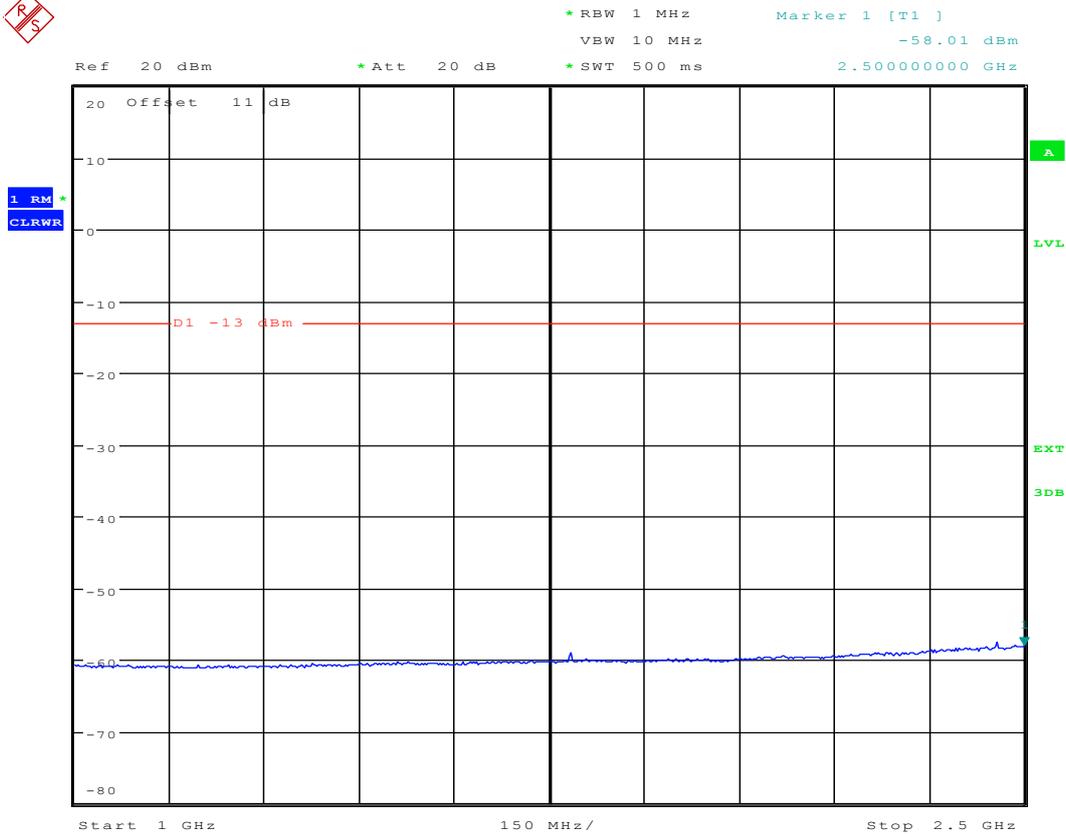
Date: 19.NOV.2015 08:42:17



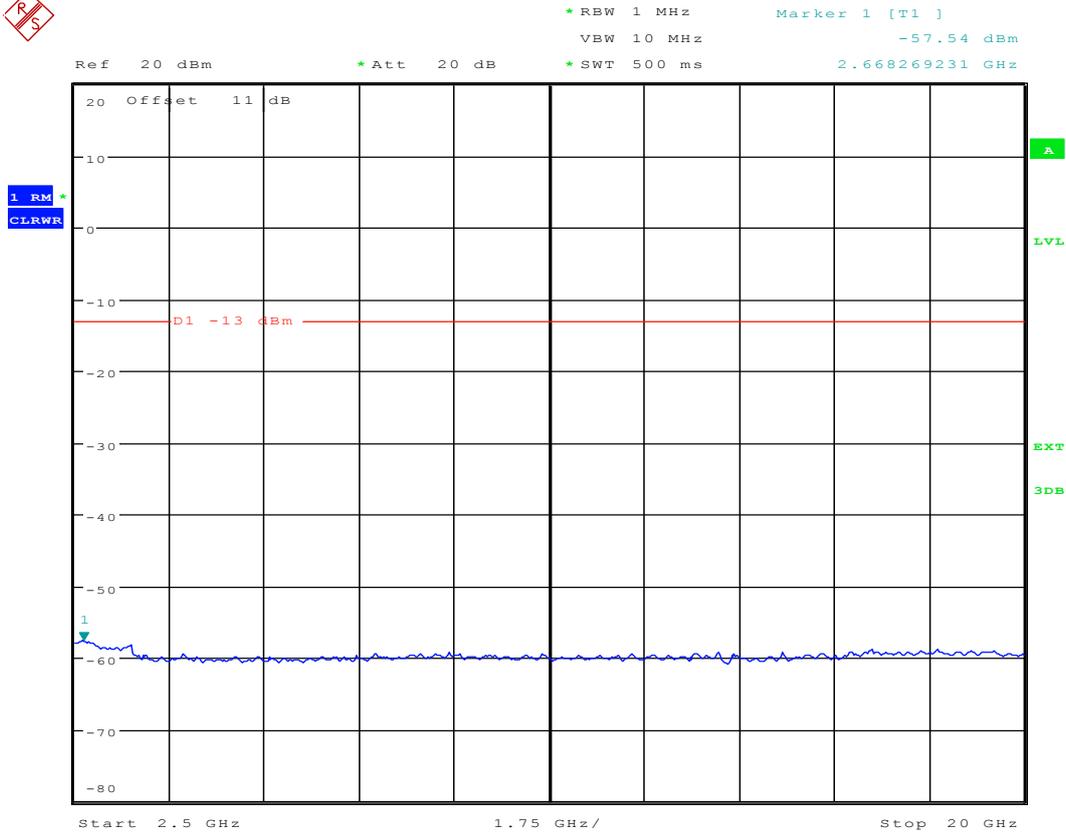
Date: 19.NOV.2015 08:43:46



Date: 20.NOV.2015 08:38:24



Date: 19.NOV.2015 08:44:44



Date: 19.NOV.2015 08:45:16



Appendix E1: Radiated (Spurious) Emissions

1 Result Table

| EUT Conf. | Measured Curve Conformed to the Emission Limit? | Verdict |
|-------------------|---|---------|
| 1U_M (Worst case) | Yes | Pass |

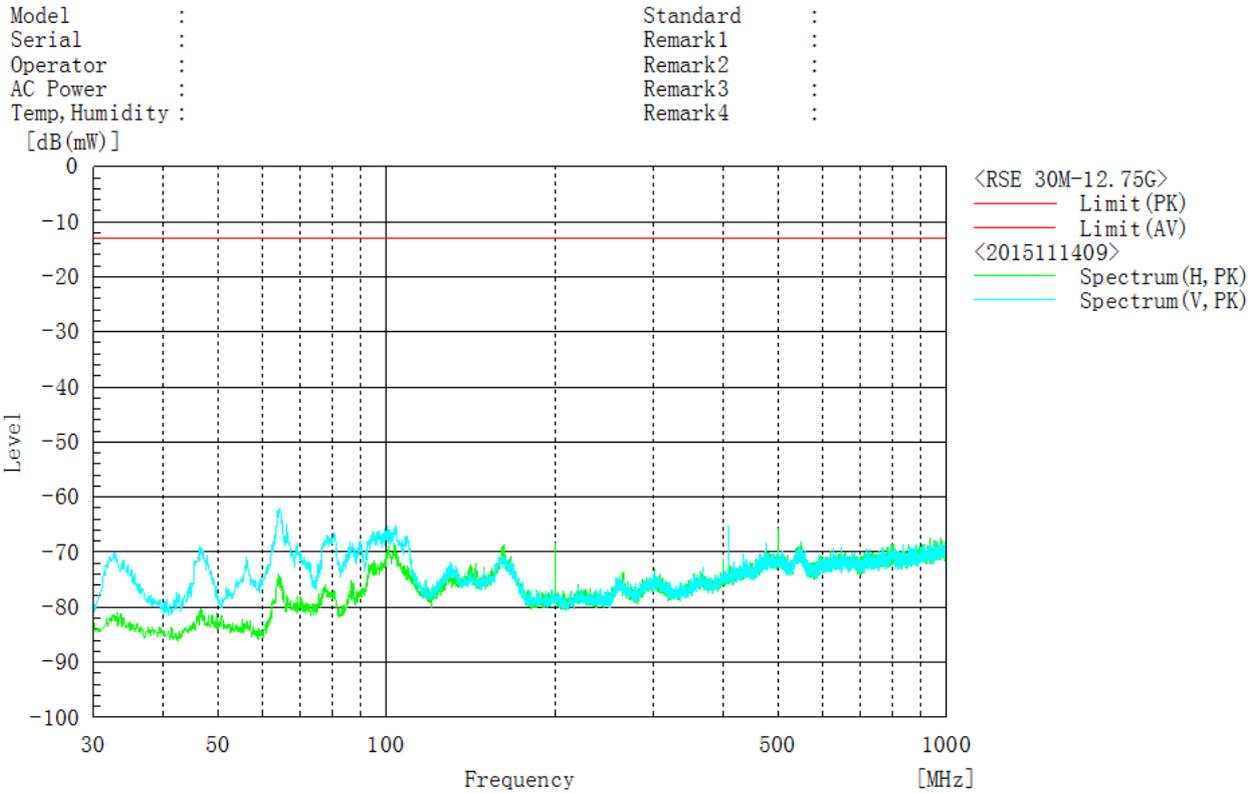
Note: The setting of analyzer is below

| Frequency range | RBW | Detector |
|-----------------|------|----------|
| 30MHz to 1GHz | 1MHz | Peak |
| 1GHz to 18GHz | 1MHz | Peak |

Note: the signal exceeding the limit line is the wanted signal.

2 Test Plot

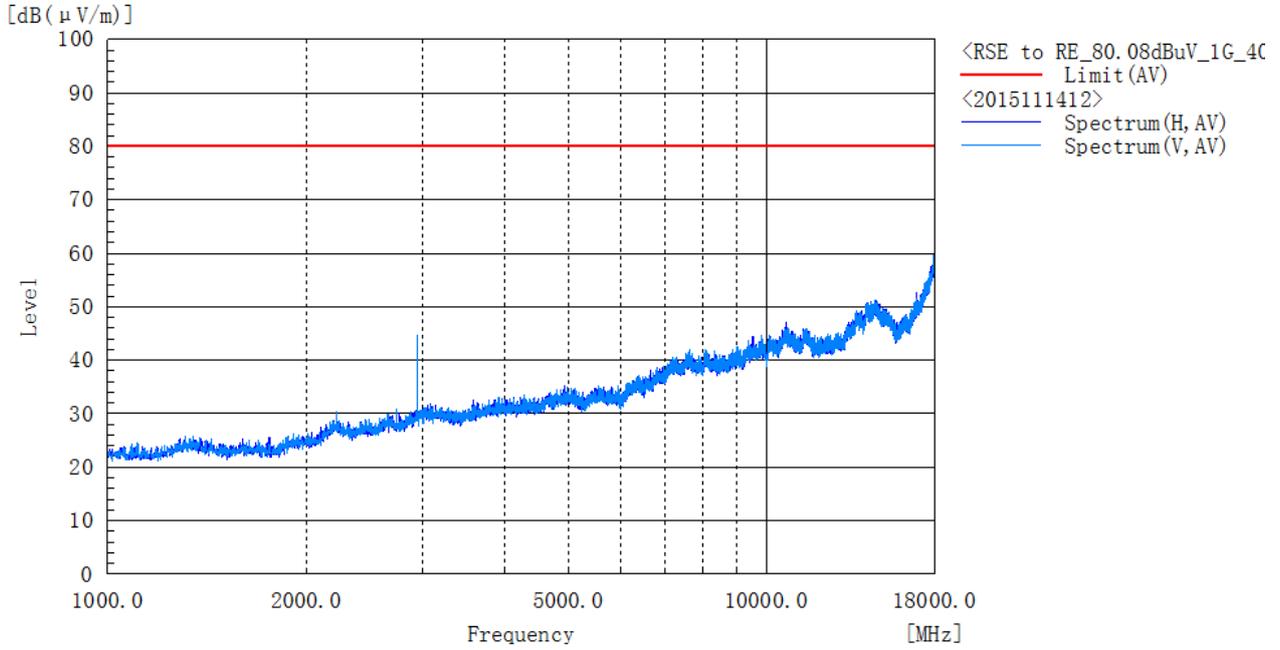
2.1 30MHz-1GHz





2.2 1GHz-18GHz

Model :
Serial :
Operator :
AC Power :
Temp, Humidity :
Standard : RSE to RE_80.08dBuV_1G_40G.rli
Remark1 :
Remark2 :
Remark3 :
Remark4 :





Appendix F1: Frequency Stability

1 Result Table

1.1 Frequency Error

(1) Frequency Error vs. Temperature:

| EUT Conf. | Voltage | Temperature | Freq. Error [Hz] | Freq. vs. rated [ppm] | Freq. vs. 20 °C [ppm] | Verdict |
|-----------|---------|-------------|------------------|-----------------------|-----------------------|---------|
| 5M_M | 100% | -30 °C | -3.82 | -0.00433 | -0.00284 | Pass |
| | | -20 °C | -2.10 | -0.00238 | -0.00088 | Pass |
| | | -10 °C | -1.67 | -0.00189 | -0.00040 | Pass |
| | | 0 °C | -3.74 | -0.00424 | -0.00275 | Pass |
| | | +10 °C | -1.68 | -0.00191 | -0.00041 | Pass |
| | | +20 °C | -1.32 | -0.00150 | --- | Pass |
| | | +30 °C | -2.16 | -0.00245 | -0.00095 | Pass |
| | | +40 °C | -2.33 | -0.00264 | -0.00115 | Pass |
| | | +50 °C | -1.81 | -0.00205 | -0.00056 | Pass |

(2) Frequency Error vs. Voltage:

| EUT Conf. | Temperature | Voltage | Freq. Error [Hz] | Freq. vs. rated [ppm] | Freq. vs. 20 °C [ppm] | Verdict |
|-----------|-------------|---------|------------------|-----------------------|-----------------------|---------|
| 5M_M | +20 °C | 85 % | -2.69 | -0.00305 | -0.00155 | Pass |
| | | 100 % | -1.32 | -0.00150 | --- | Pass |
| | | 115 % | -1.42 | -0.00161 | -0.00011 | Pass |

1.2 Frequency Range

(Not applicable)



2 Test Plot

NOTE: Only the test plots for the measurements of Frequency Range are supplied.

(Not applicable)



Appendix G1: Receiver Spurious Emissions



1 Result Table

(Not applicable)

2 Test Plot

(Not applicable)

END