



Appendix A: 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]	Verdict
1L5M_B	20.03	Pass
1L5M_M	20.07	Pass
1L5M_T	19.89	Pass
1L10M_B	20.01	Pass
1L10M_M	20.05	Pass
1L10M_T	19.92	Pass
1L15M_B	19.98	Pass
1L15M_M	20.07	Pass
1L15M_T	19.91	Pass
1L20M_B	20.06	Pass
1L20M_M	20.03	Pass
1L20M_T	19.93	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.

EUT Conf.	Channel Power Spectral Density [dBm/MHz]	Verdict
1L5M_B	14.05	Pass
1L5M_M	14.19	Pass
1L5M_T	13.70	Pass

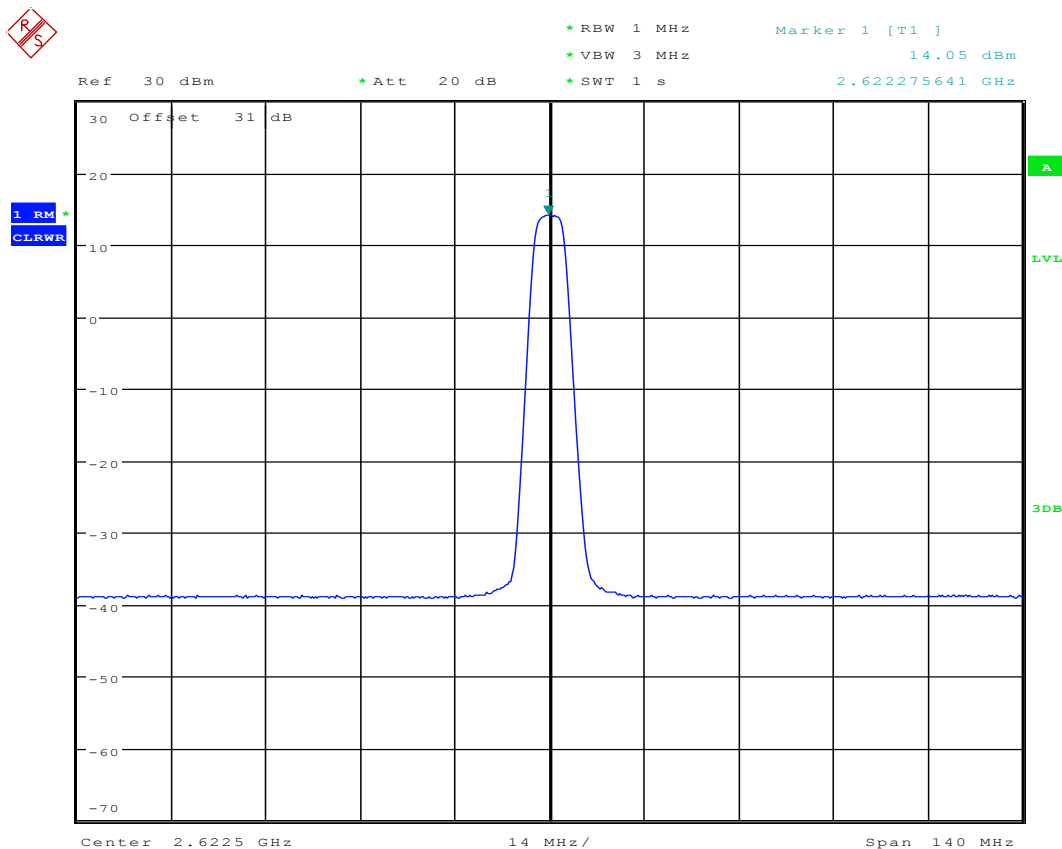


2 Test Plot

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

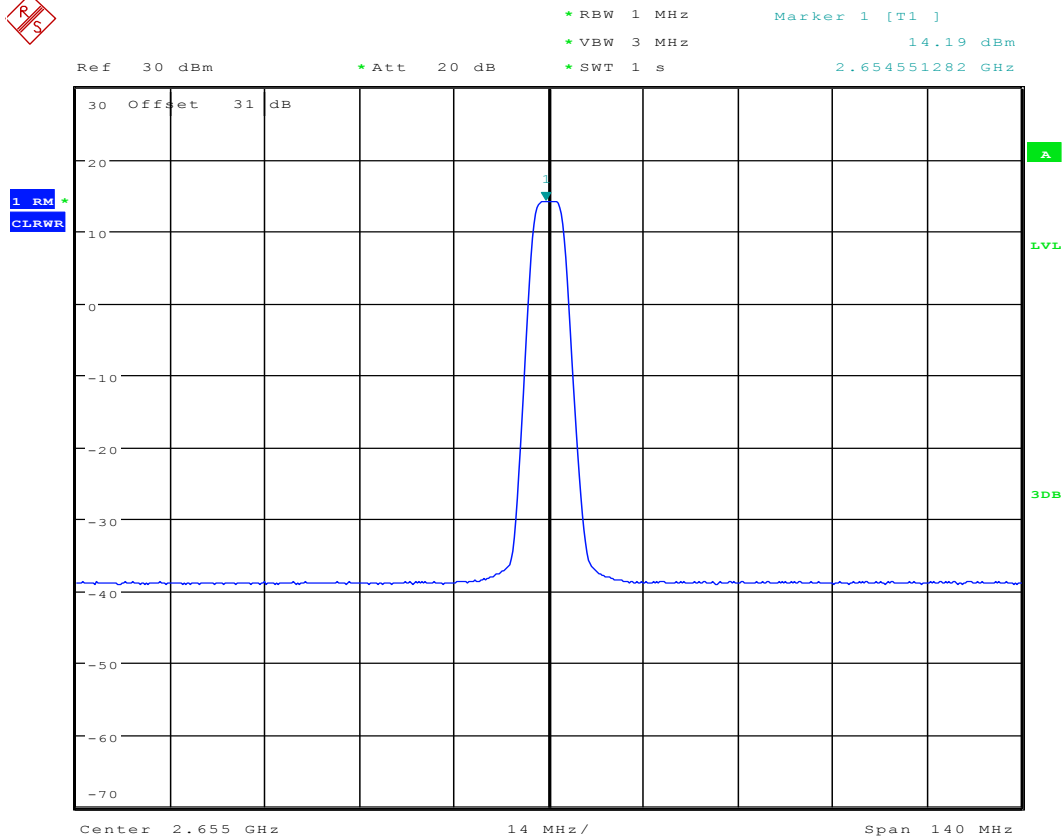
2.1 Power Spectral Density

2.1.1 1L5M_B



Date: 29.APR.2016 13:14:24

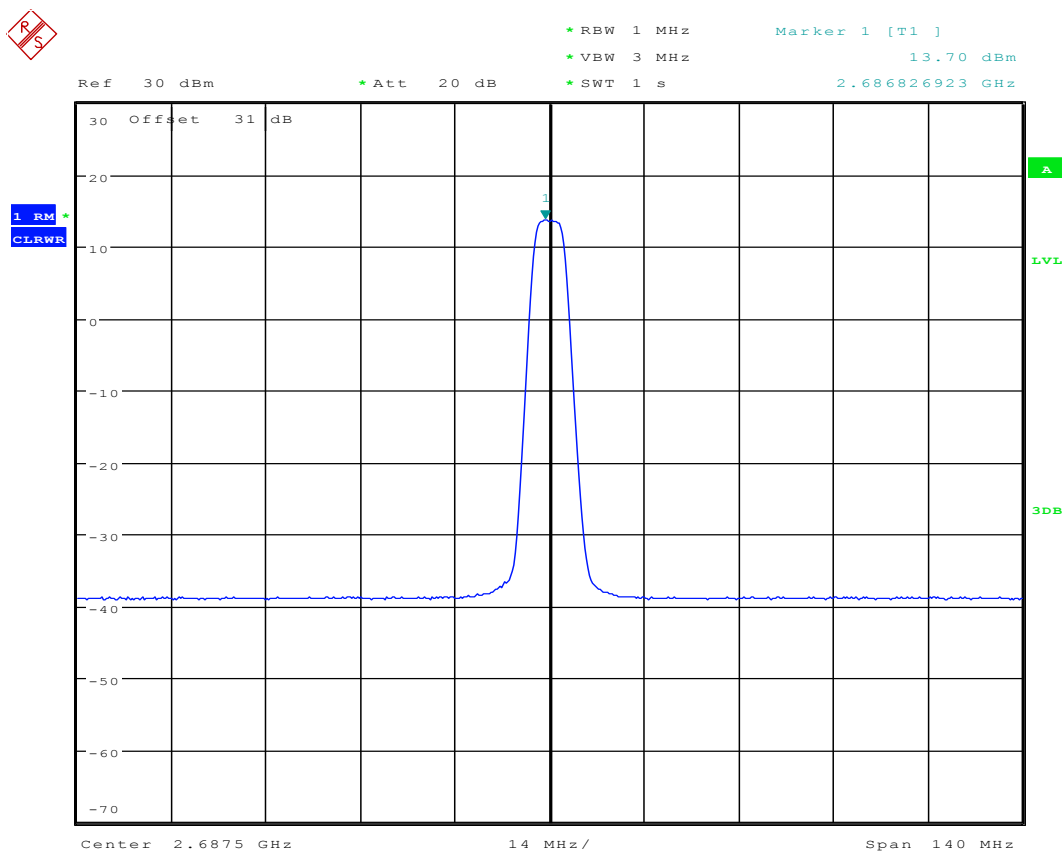
2.1.2 1L5M_M



Date: 29.APR.2016 17:26:58



2.1.3 1L5M_T



Date: 29.APR.2016 17:35:41



Appendix B: Bandwidth



1 Result Table

1.1 Occupied Bandwidth

EUT Conf.	Occupied Bandwidth [MHz]	Verdict
1L5M_B	4.487179487	---
1L5M_M	4.487179487	---
1L5M_T	4.487179487	---
1L10M_B	8.934294872	---
1L10M_M	8.894230769	---
1L10M_T	8.934294872	---
1L15M_B	13.365384615	---
1L15M_M	13.365384615	---
1L15M_T	13.365384615	---
1L20M_B	17.836538462	---
1L20M_M	17.836538462	---
1L20M_T	17.836538462	---

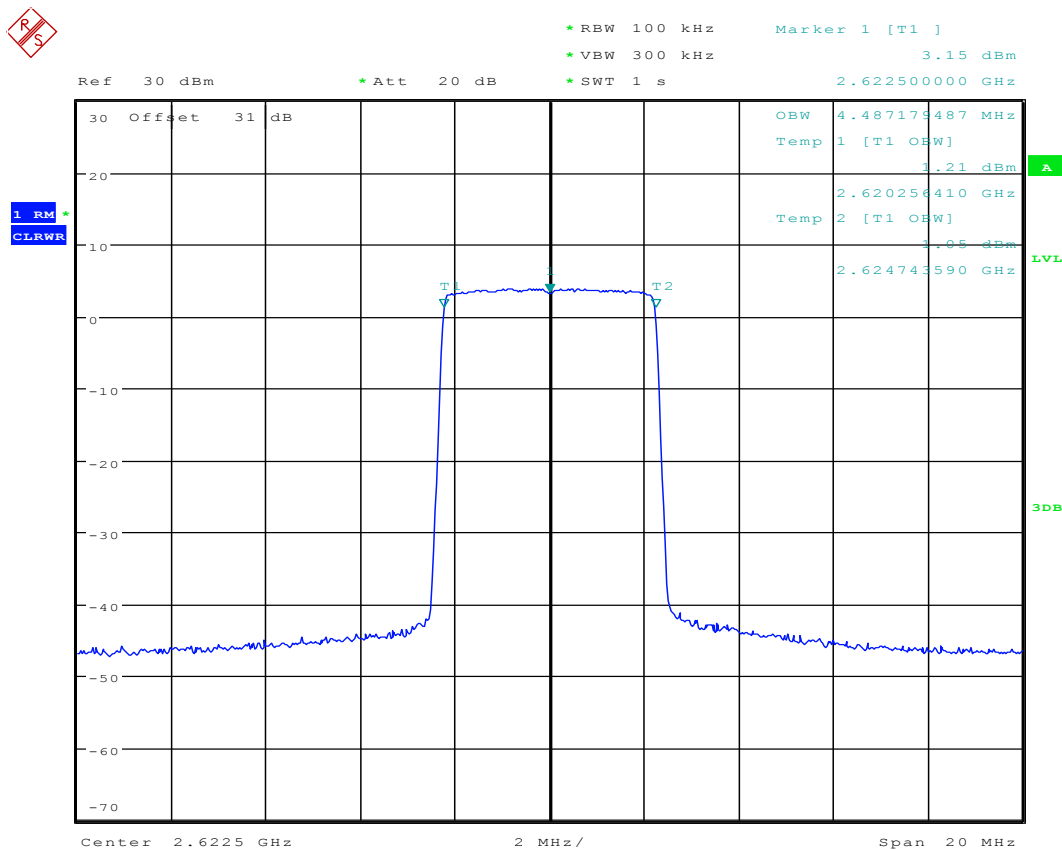
1.2 Emission Bandwidth

EUT Conf.	Emission Bandwidth, -26 dBc [MHz]	Verdict
1L5M_B	4.807692308	---
1L5M_M	4.807692308	---
1L5M_T	4.807692308	---
1L10M_B	9.375000000	---
1L10M_M	9.375000000	---
1L10M_T	9.294871795	---
1L15M_B	13.942307692	---
1L15M_M	13.942307692	---
1L15M_T	13.894230769	---
1L20M_B	18.397435897	---
1L20M_M	18.397435897	---
1L20M_T	18.397435897	---

2 Test Plot

2.1 Occupied Bandwidth

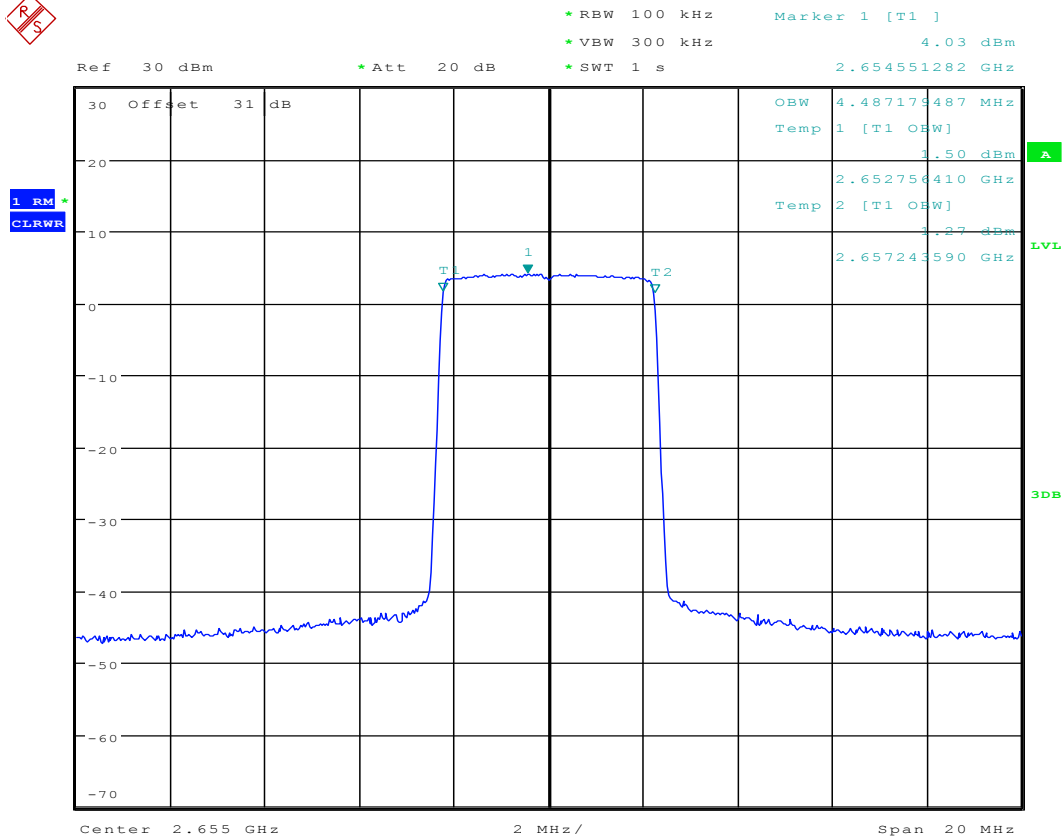
2.1.1 1L5M_B



Date: 29.APR.2016 13:18:16



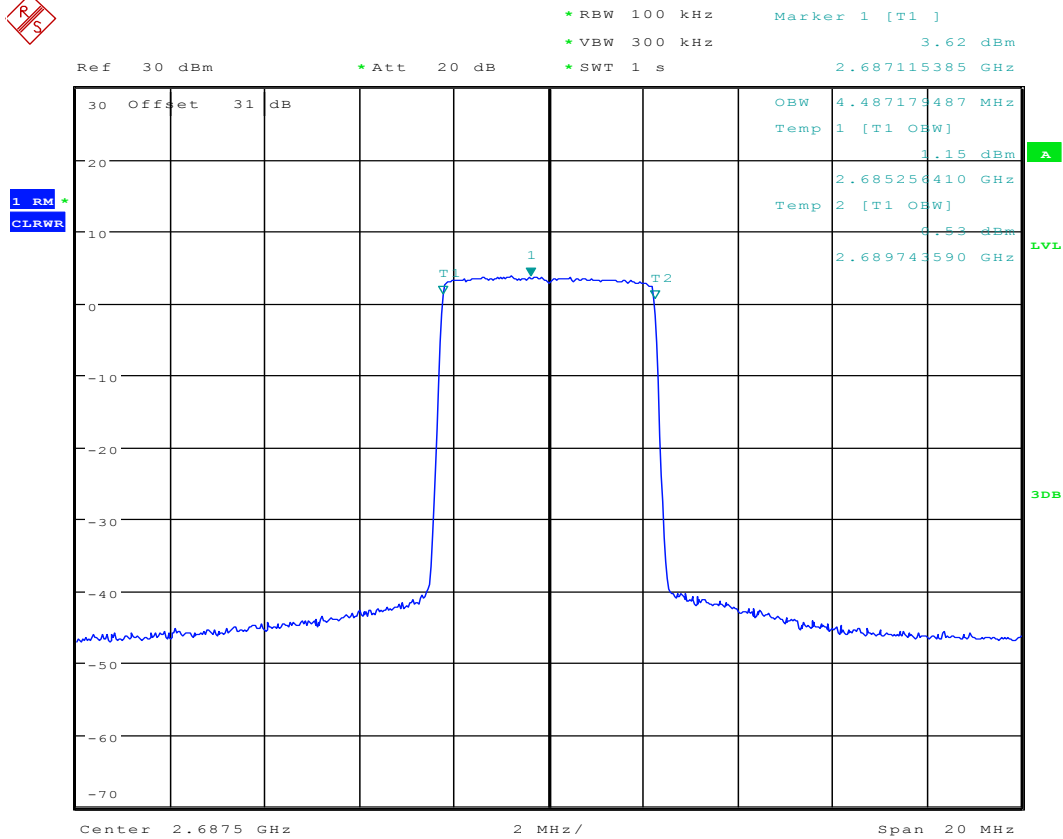
2.1.2 1L5M_M



Date: 29.APR.2016 17:27:24

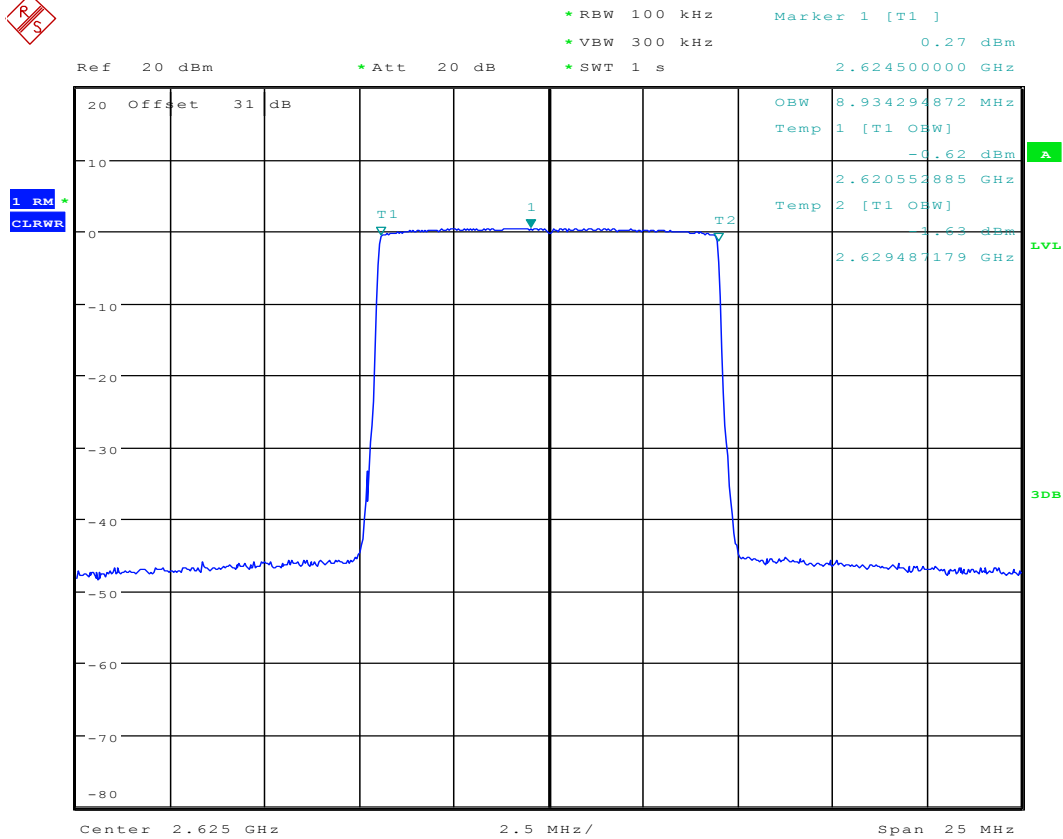


2.1.3 1L5M_T



Date: 29.APR.2016 17:55:40

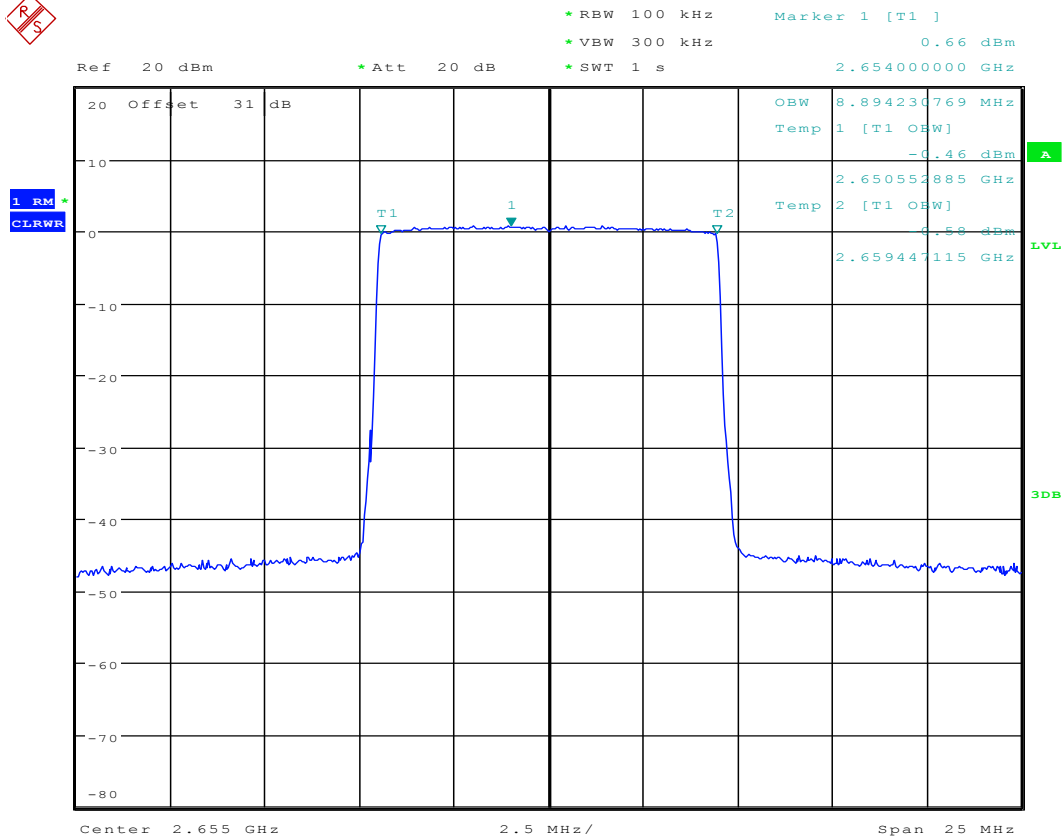
2.1.4 1L10M_B



Date: 29.APR.2016 18:50:24



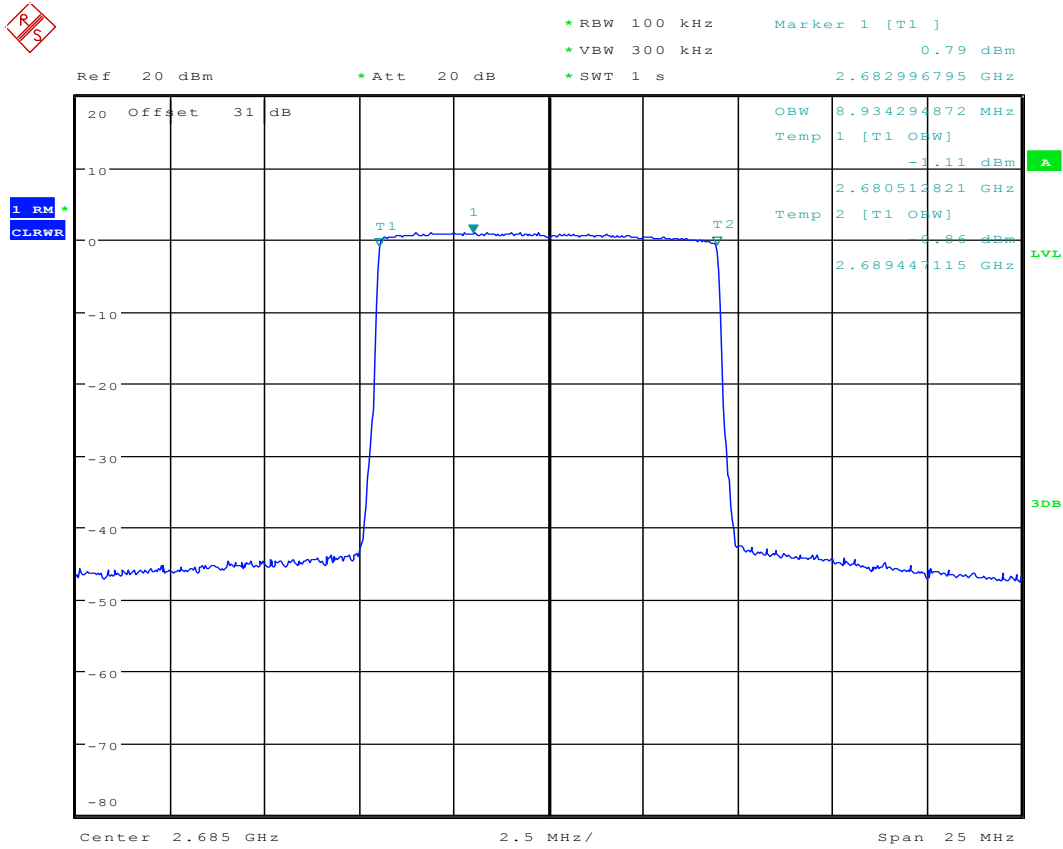
2.1.5 1L10M_M



Date: 29.APR.2016 19:01:57

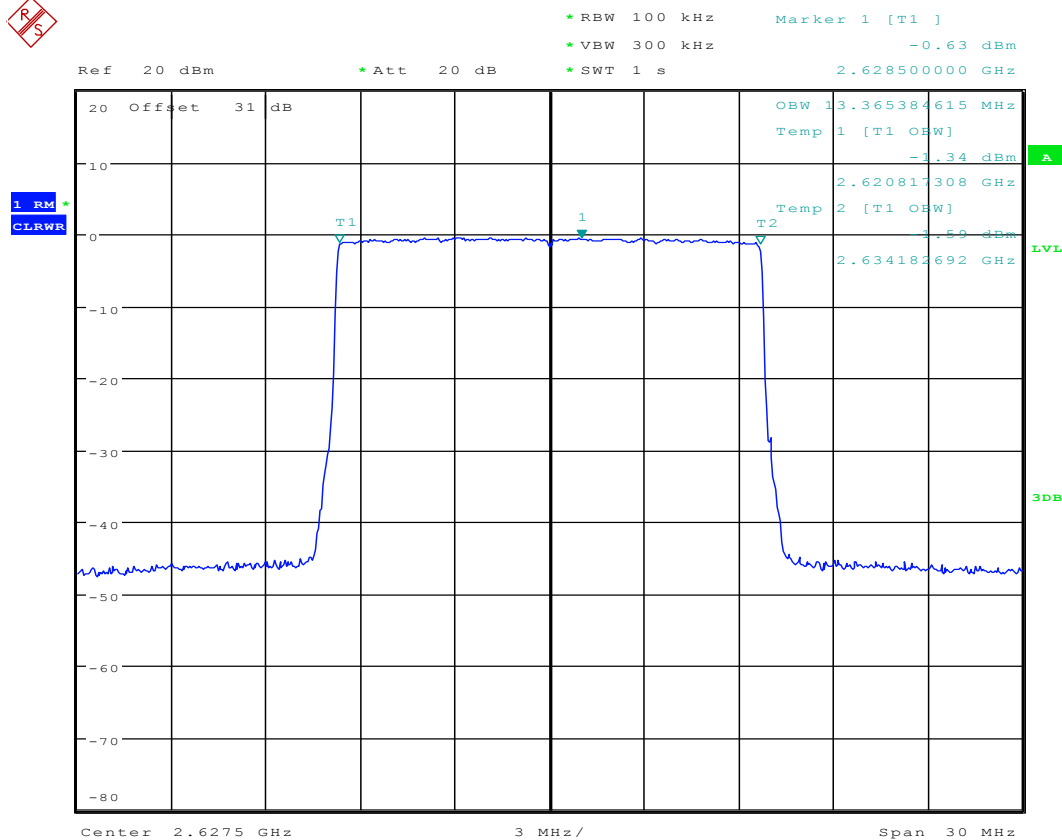


2.1.6 1L10M_T



Date: 29.APR.2016 19:04:55

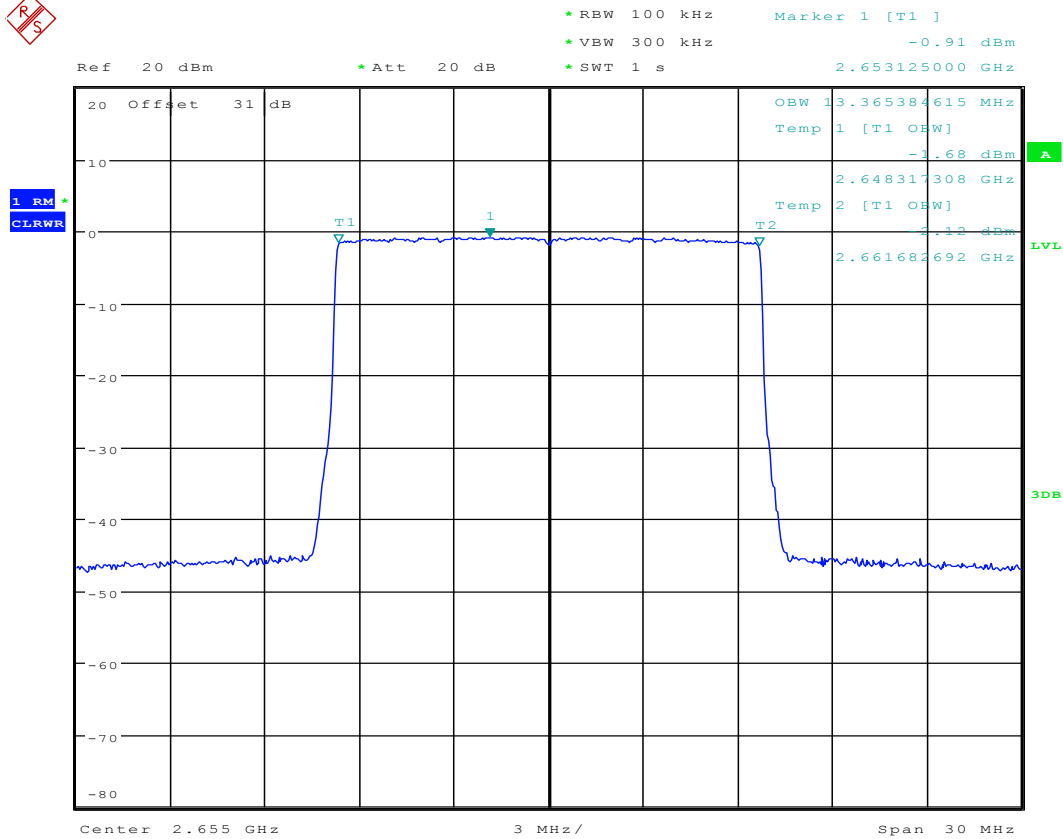
2.1.7 1L15M_B



Date: 29.APR.2016 19:15:23

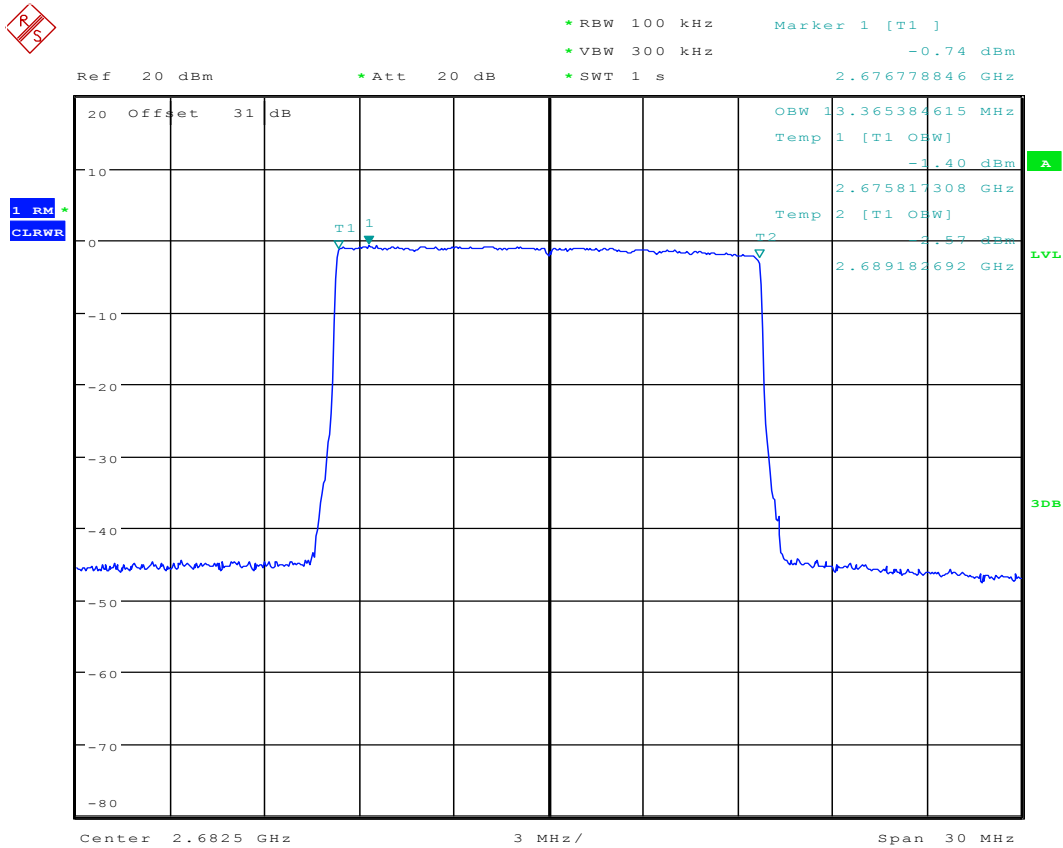


2.1.8 1L15M_M



Date: 29.APR.2016 19:19:35

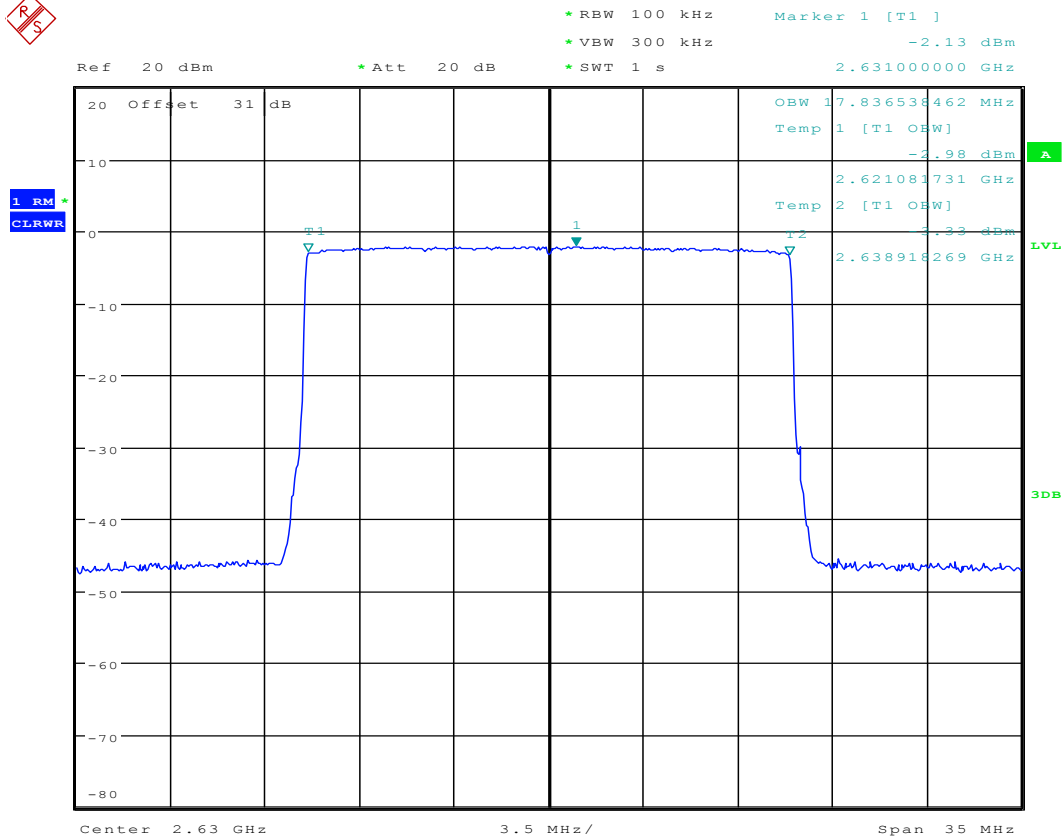
2.1.9 1L15M_T



Date: 29.APR.2016 19:21:47

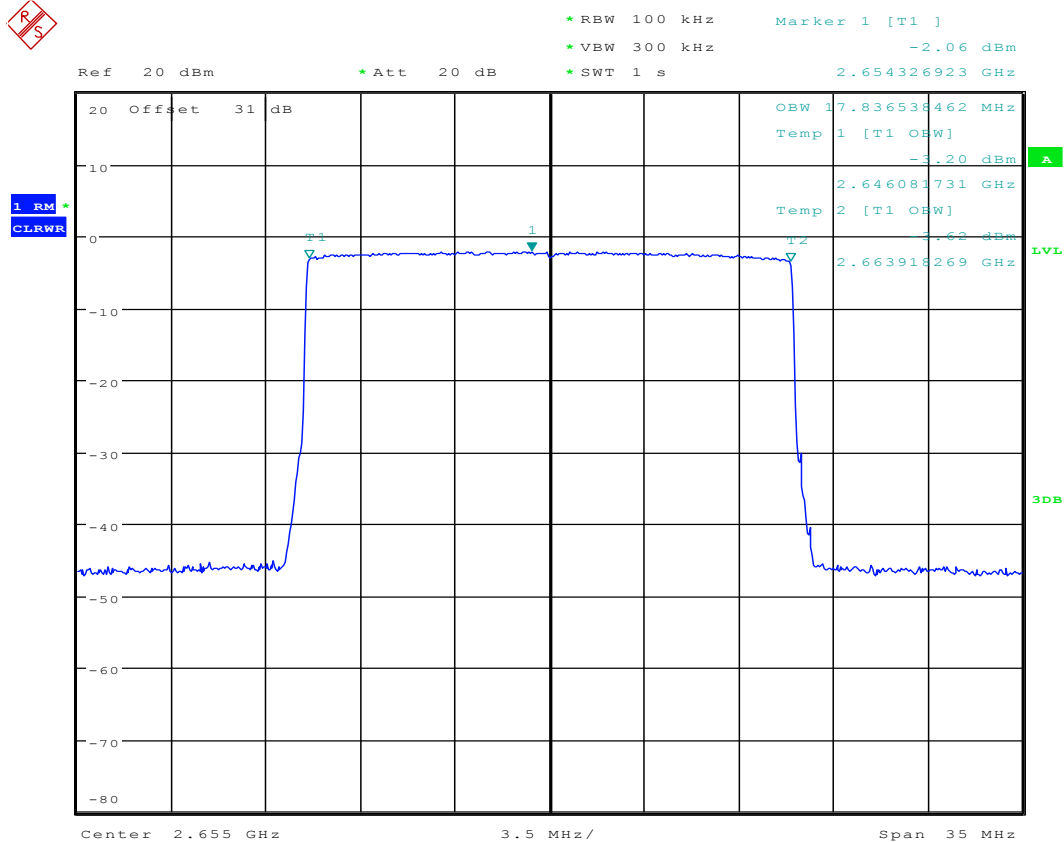


2.1.10 1L20M_B



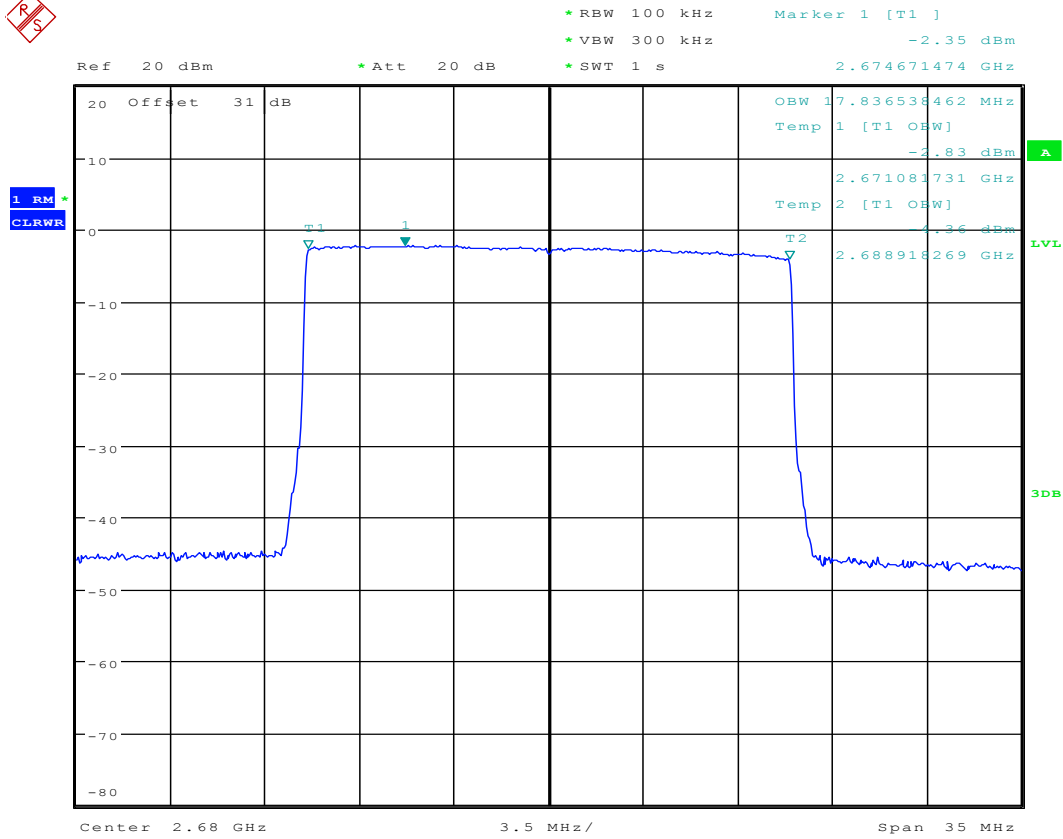
Date: 29.APR.2016 19:27:32

2.1.11 1L20M_M



Date: 29.APR.2016 20:00:12

2.1.12 1L20M_T

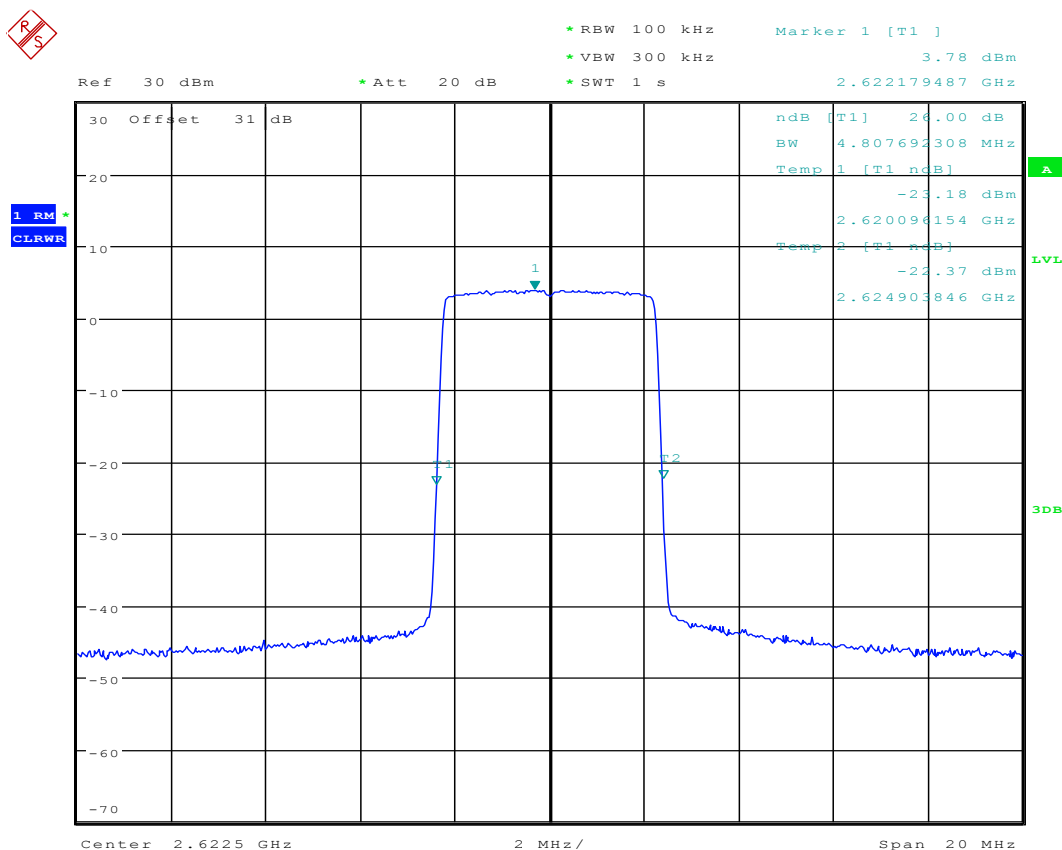


Date: 29.APR.2016 20:04:00



2.2 Emission Bandwidth(-26 dBc)

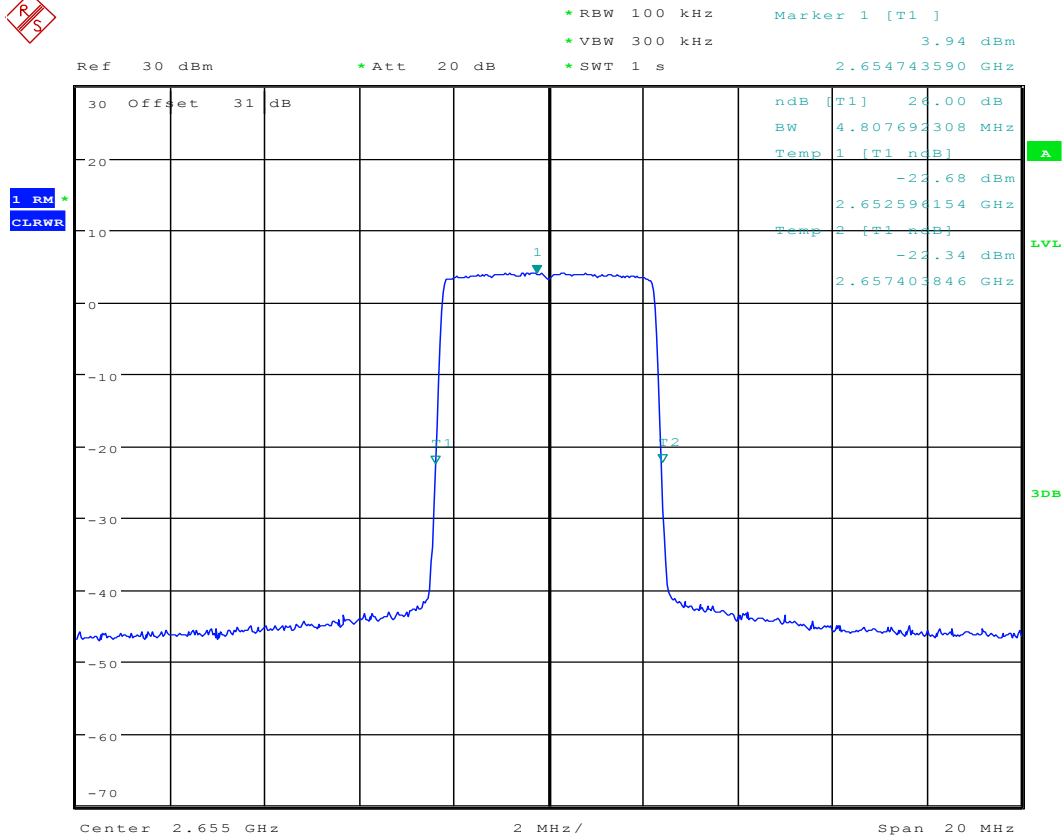
2.2.1 1L5M_B



Date: 29.APR.2016 13:18:48



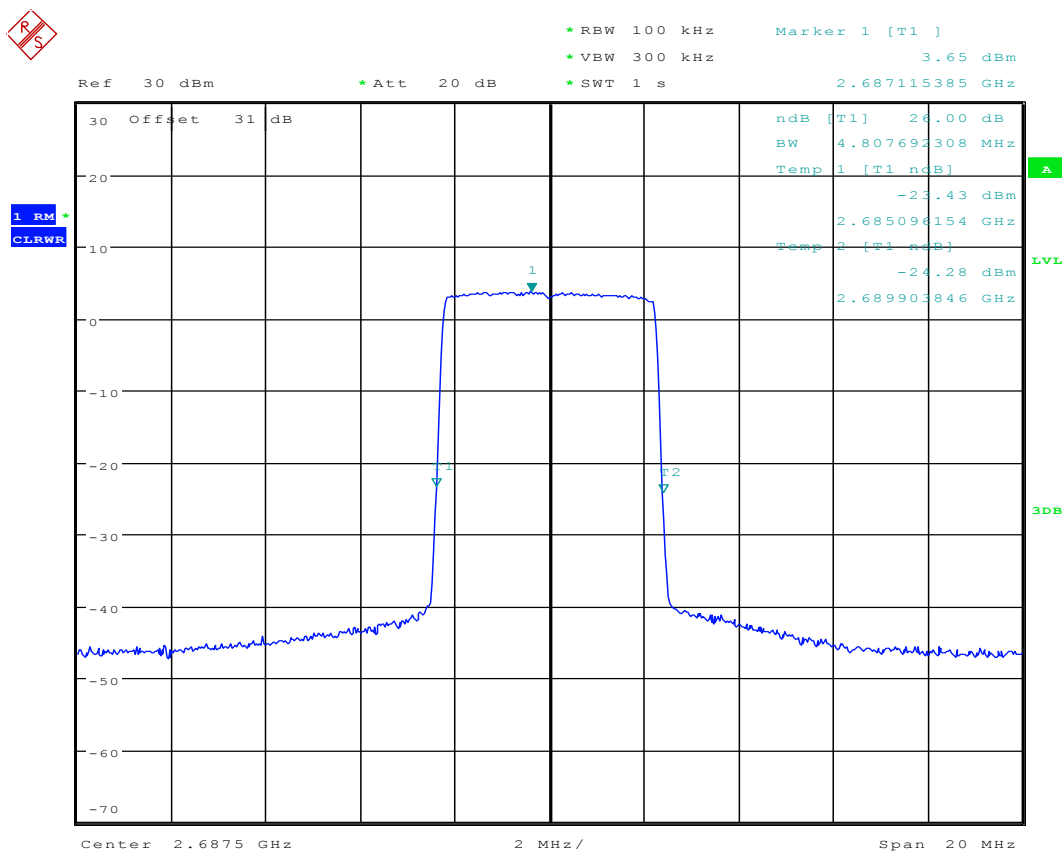
2.2.2 1L5M_M



Date: 29.APR.2016 17:27:59



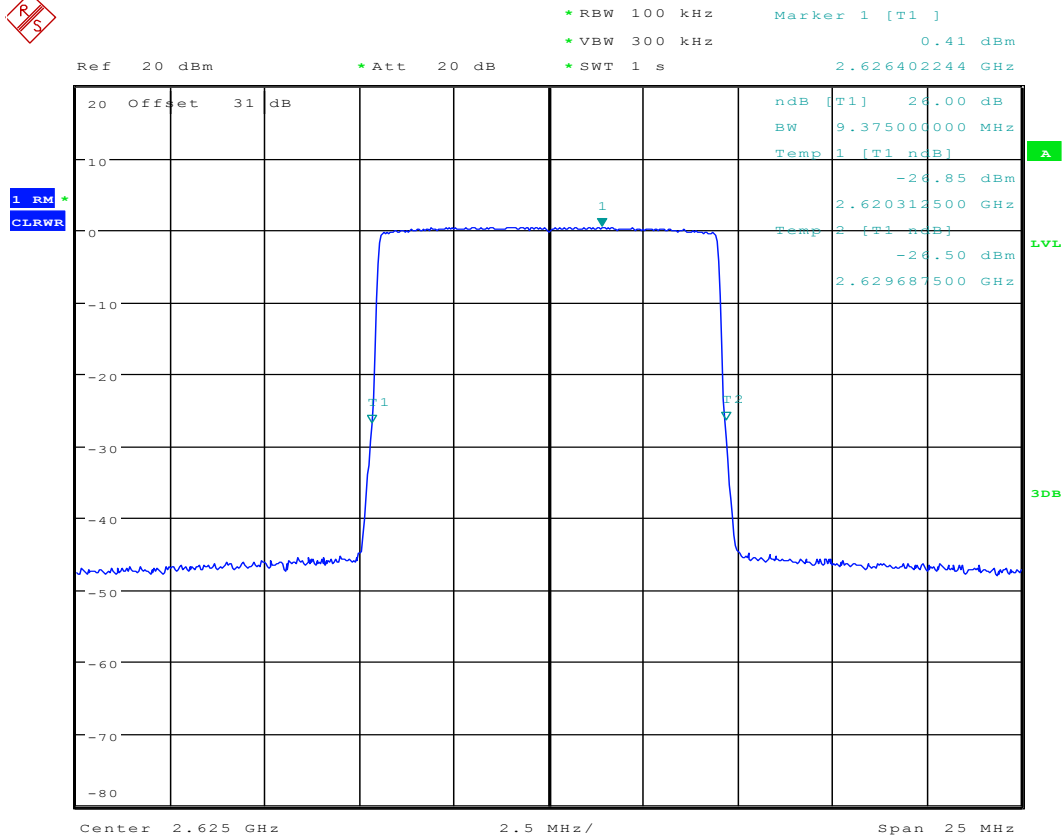
2.2.3 1L5M_T



Date: 29.APR.2016 17:56:04

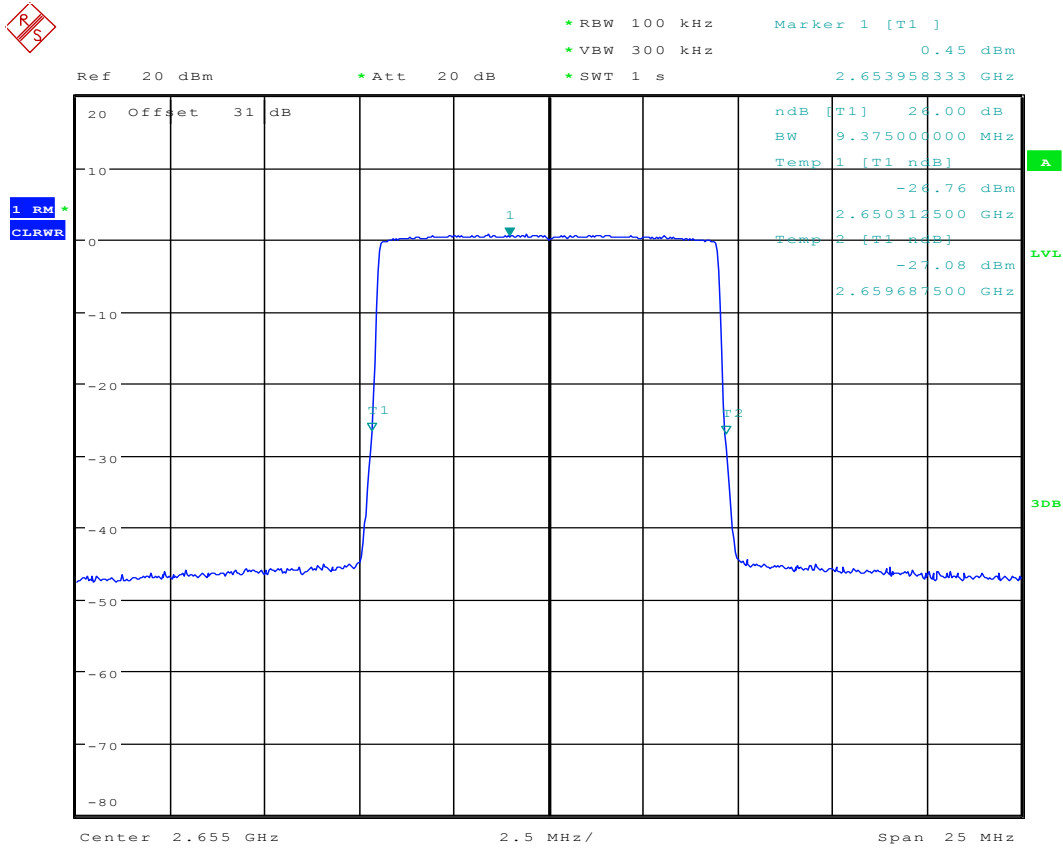


2.2.4 1L10M_B



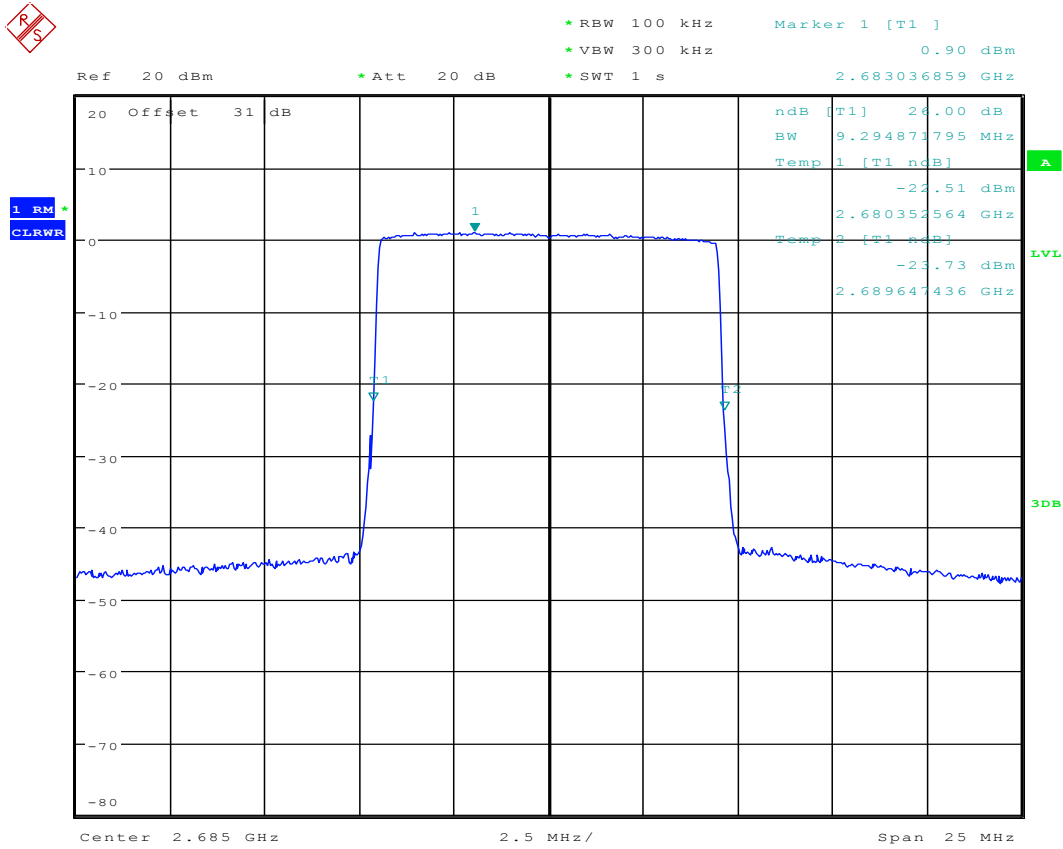
Date: 29.APR.2016 18:50:52

2.2.5 1L10M_M



Date: 29.APR.2016 19:02:14

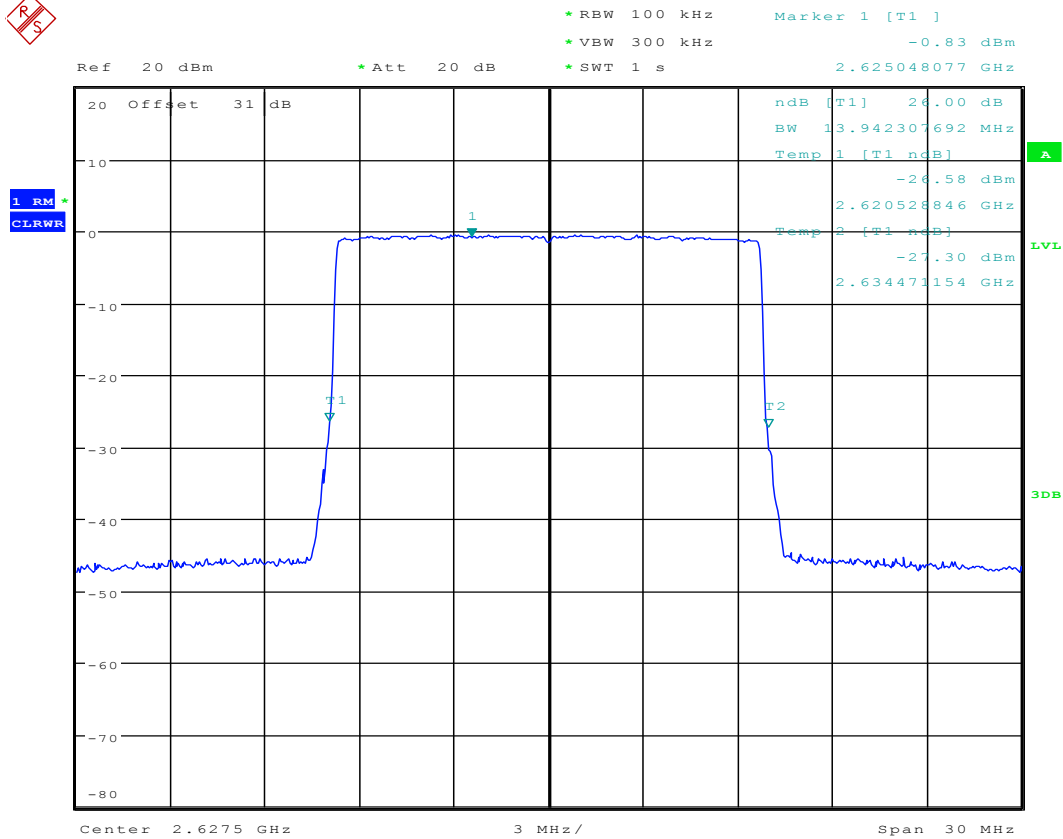
2.2.6 1L10M_T



Date: 29.APR.2016 19:05:26

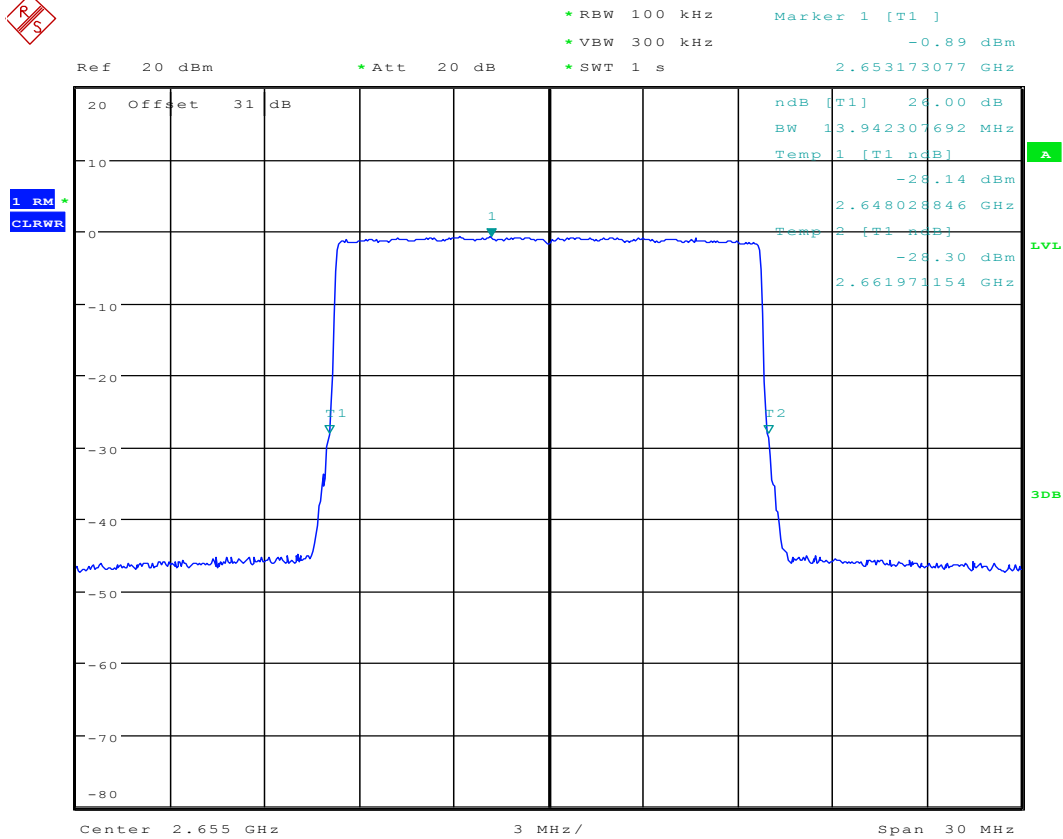


2.2.7 1L15M_B



Date: 29.APR.2016 19:15:39

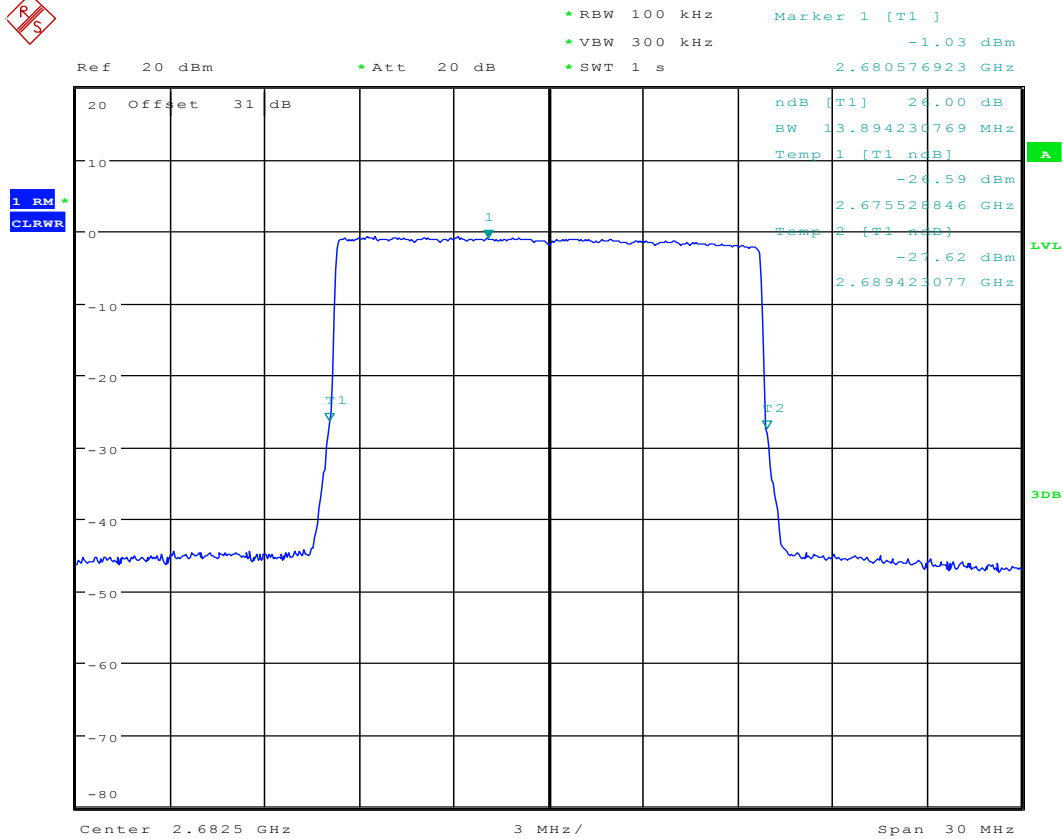
2.2.8 1L15M_M



Date: 29.APR.2016 19:19:52

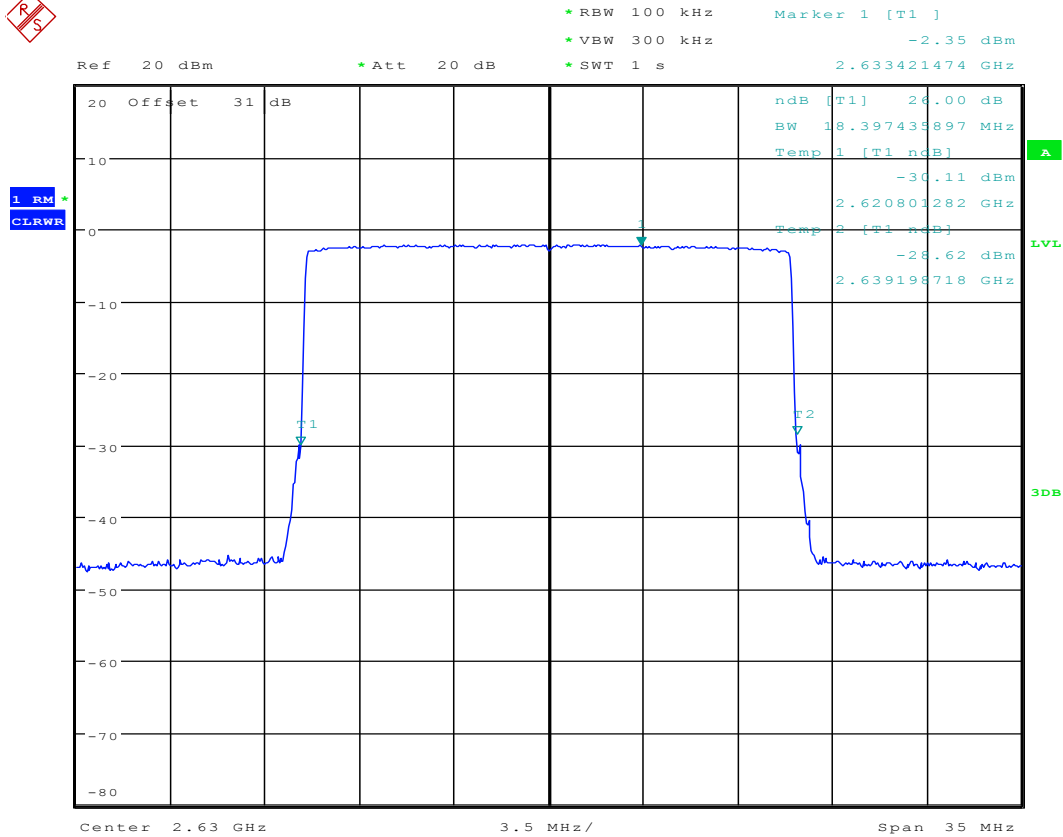


2.2.9 1L15M_T



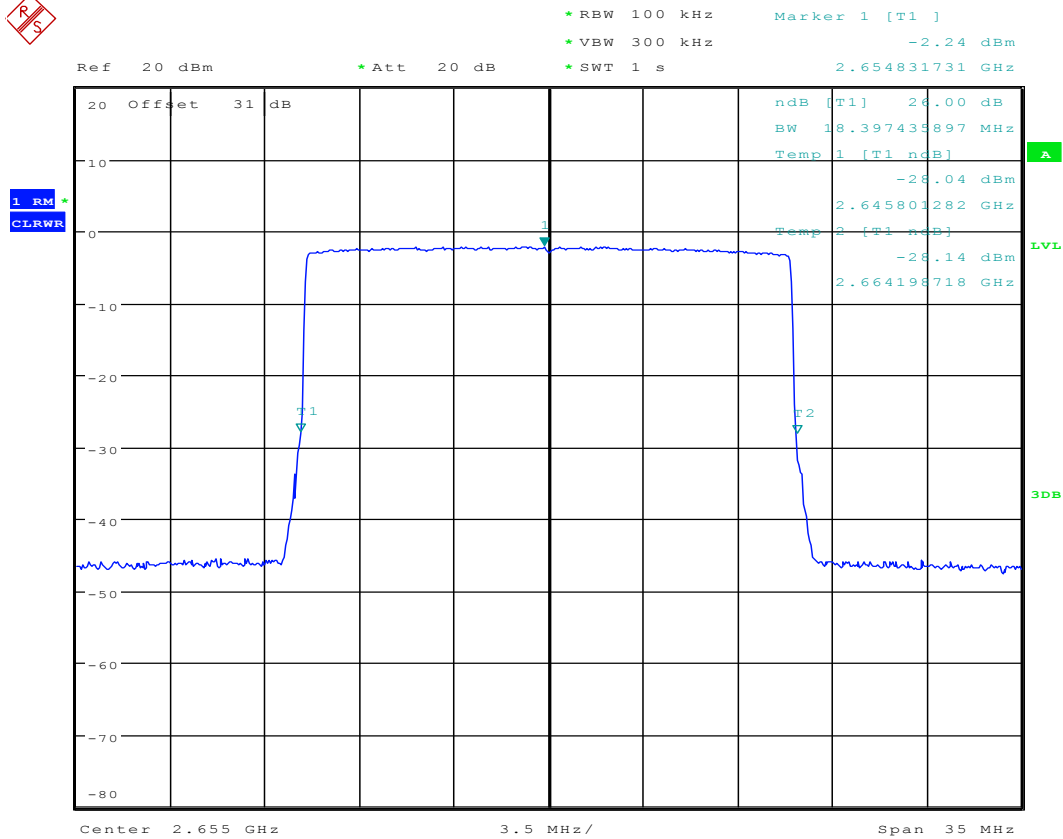
Date: 29.APR.2016 19:22:05

2.2.10 1L20M_B



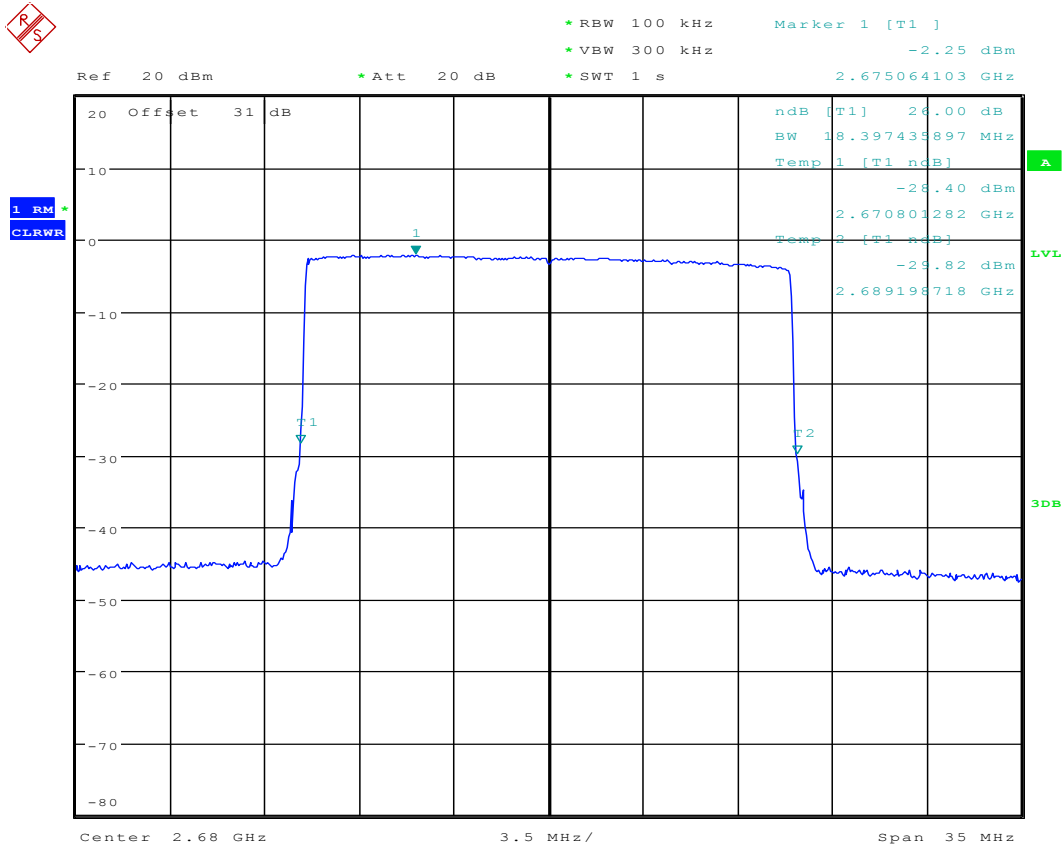
Date: 29.APR.2016 19:27:49

2.2.11 1L20M_M



Date: 29.APR.2016 20:00:29

2.2.12 1L20M_T



Date: 29.APR.2016 20:04:16



Appendix C: Band Edges Compliance



1 Result Table

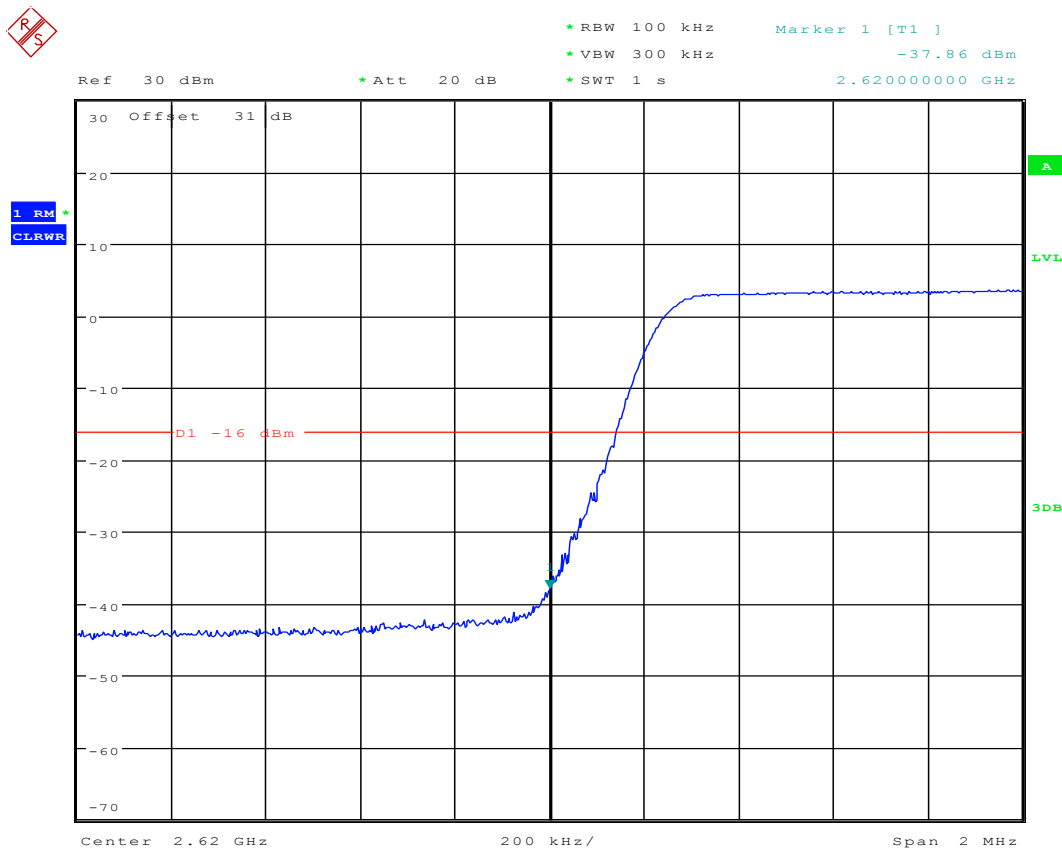
NOTE: The offset of measurement filter -3dB point may be considered when identifying the maximum emission for e.g. the CDMA, WCDMA, WiMAX, LTE systems.

EUT Conf.	Maximum Emission [dBm]	Verdict
1L5M_B	<-13	Pass
1L5M_T	<-13	Pass
1L20M_B	<-13	Pass
1L20M_T	<-13	Pass

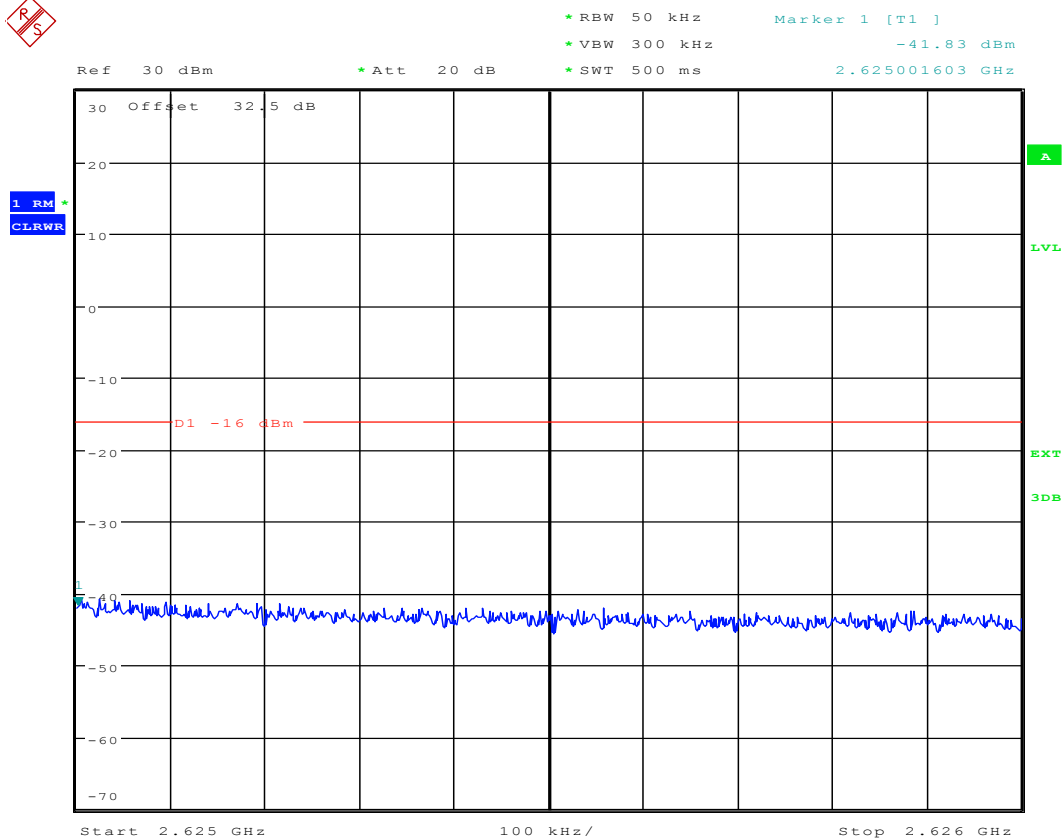


2 Test Plot

2.1 1L5M_B

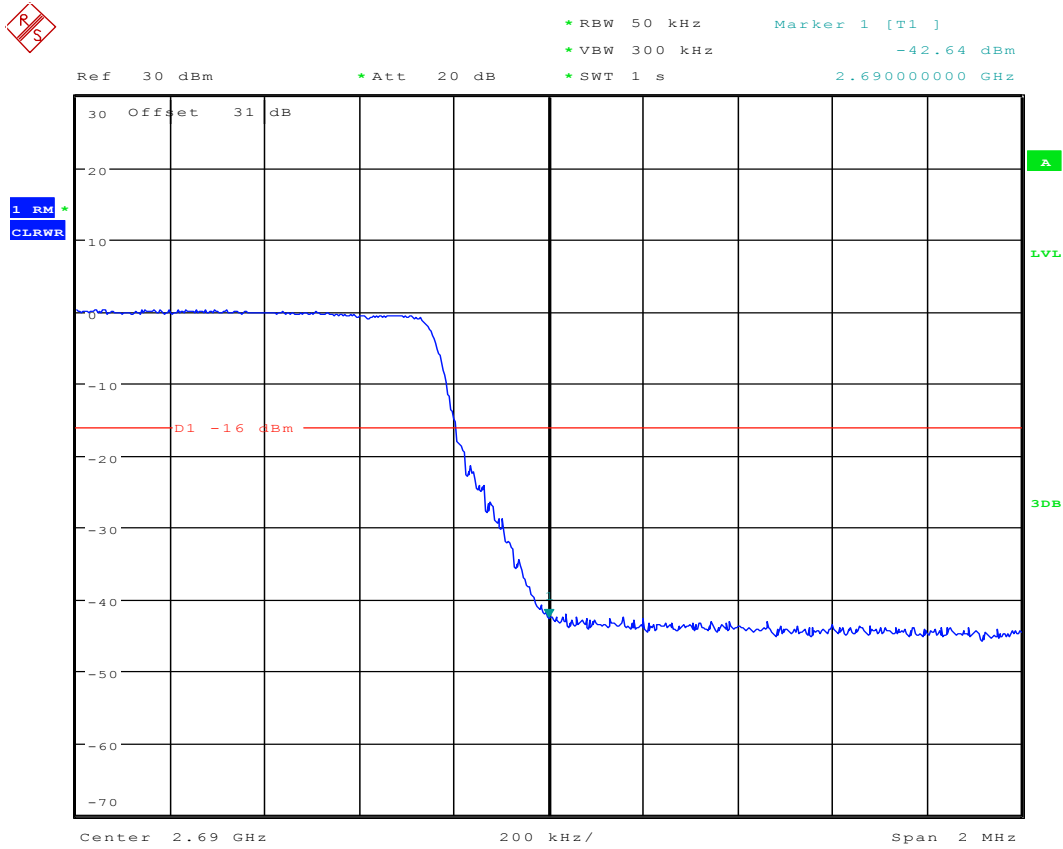


Date: 29.APR.2016 13:19:55

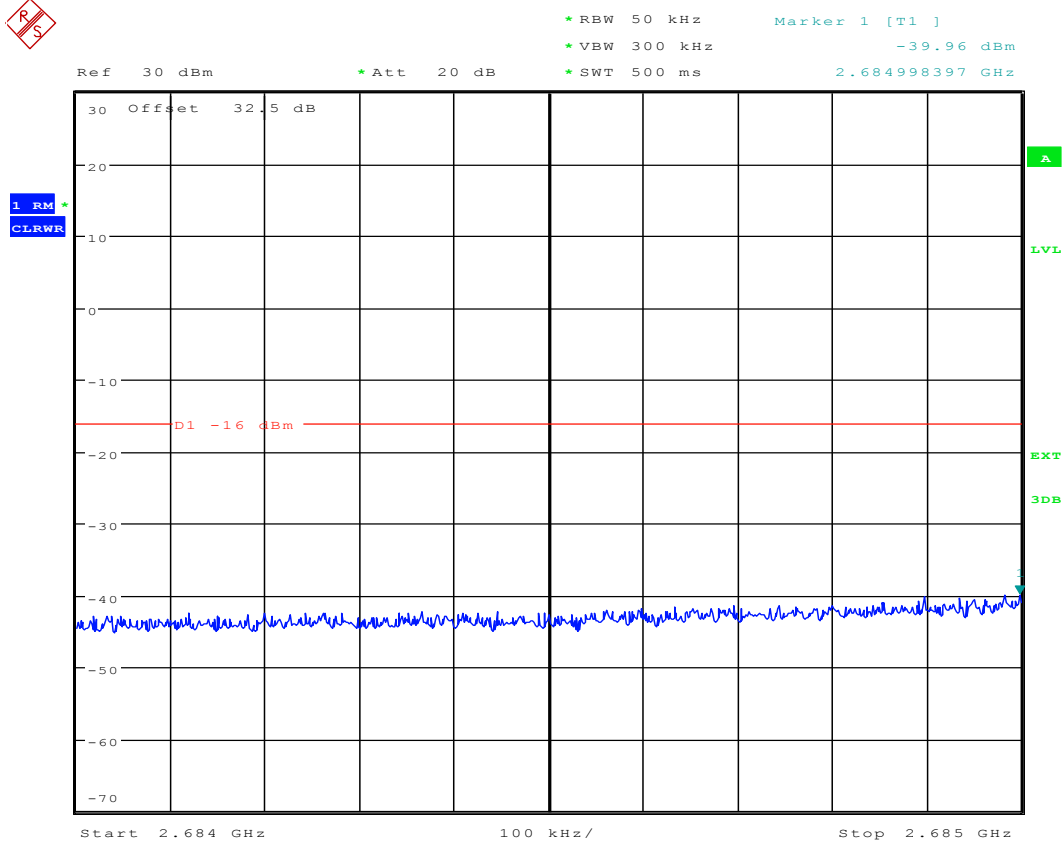


Date: 16.MAY.2016 00:05:07

2.2 1L5M_T



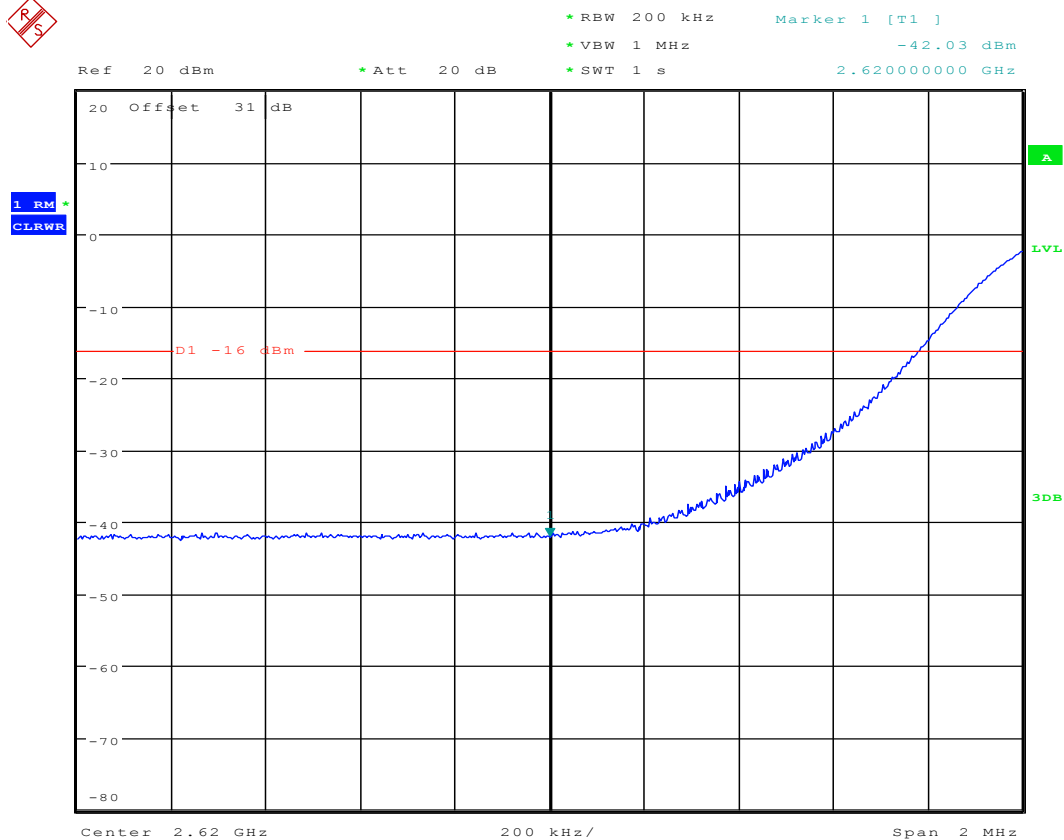
Date: 29.APR.2016 17:57:32



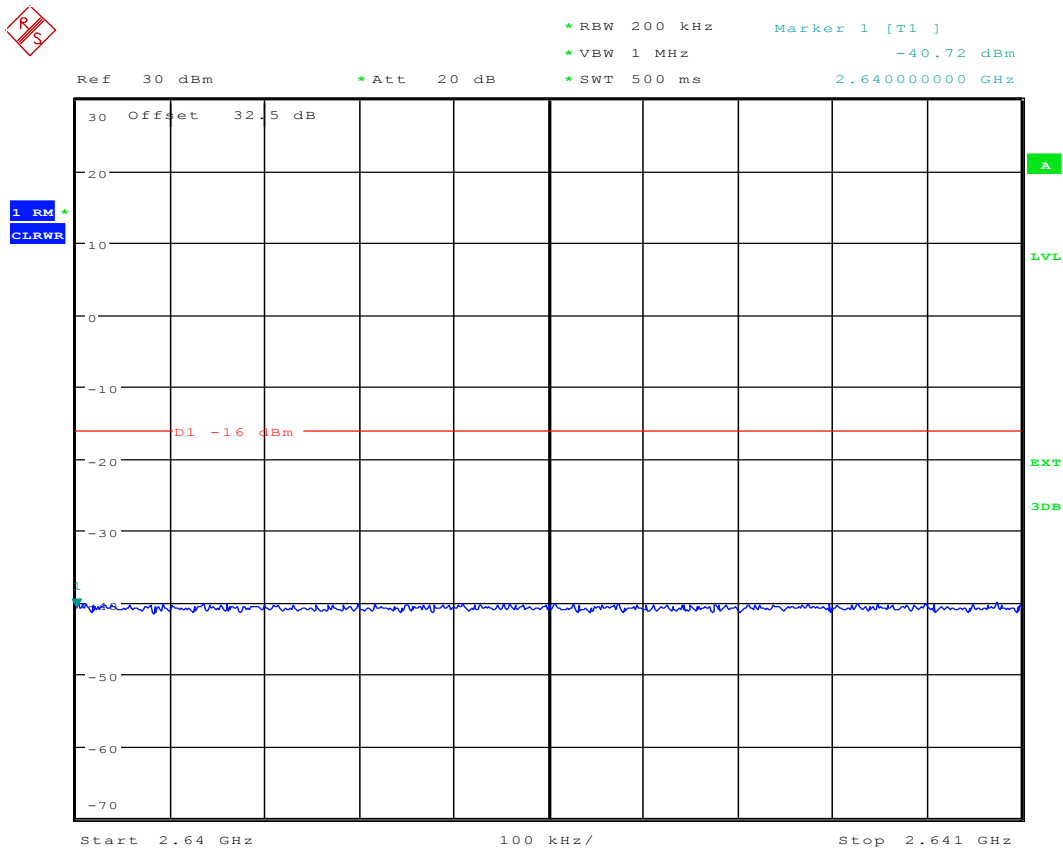
Date: 16.MAY.2016 00:09:49



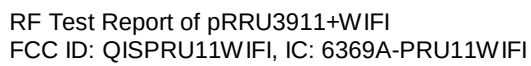
2.3 1L20M_B



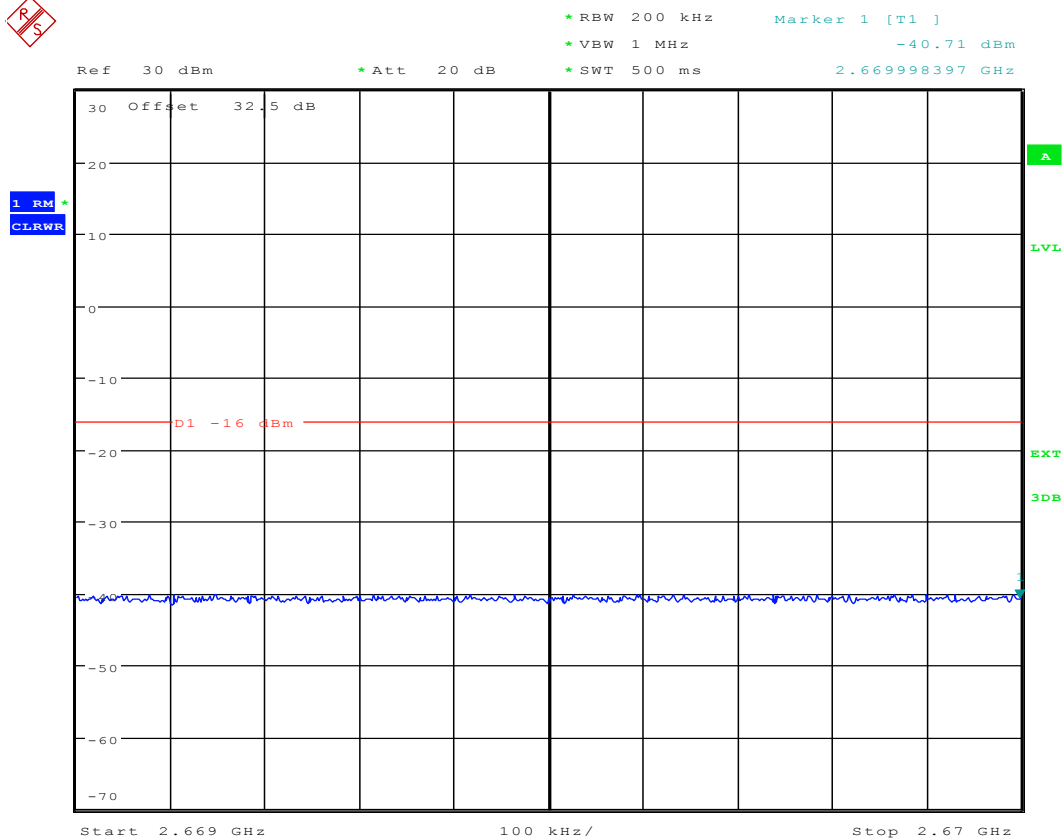
Date: 29.APR.2016 19:28:46



Date: 16.MAY.2016 00:13:29



Page 40 of 83



Date: 16.MAY.2016 00:15:34



Appendix D: Spurious Emission at Antenna Terminals

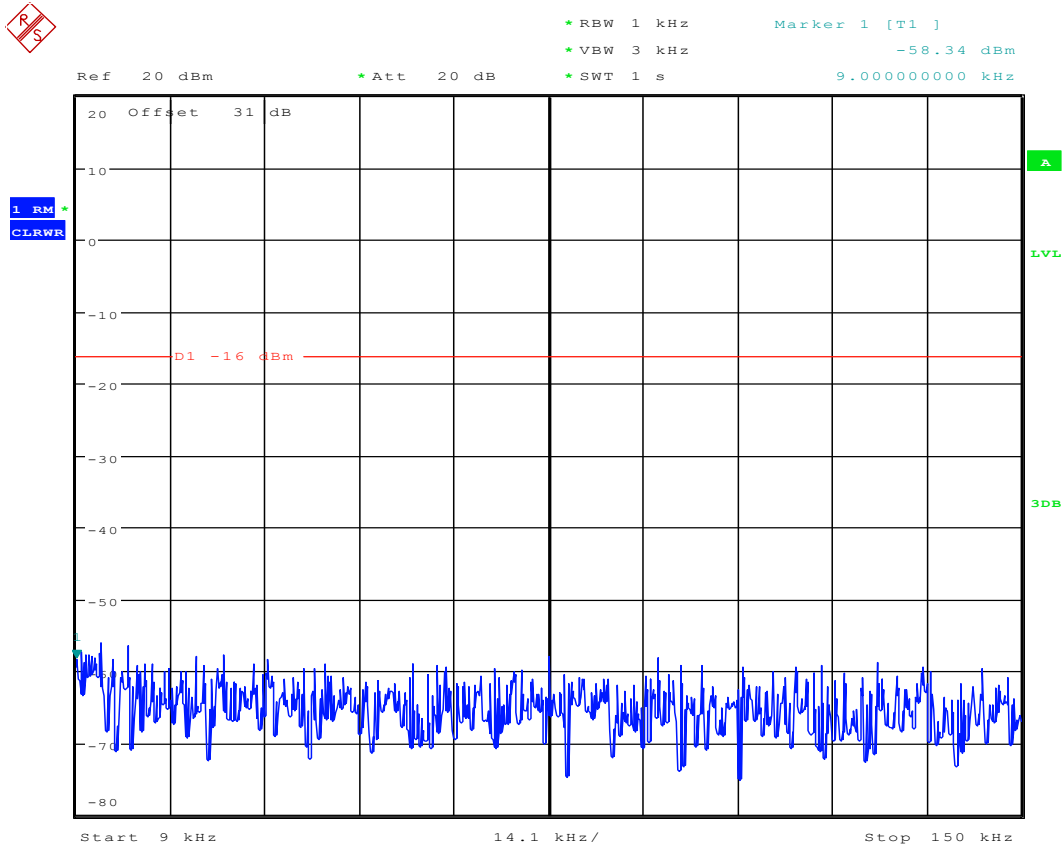


1 Result Table

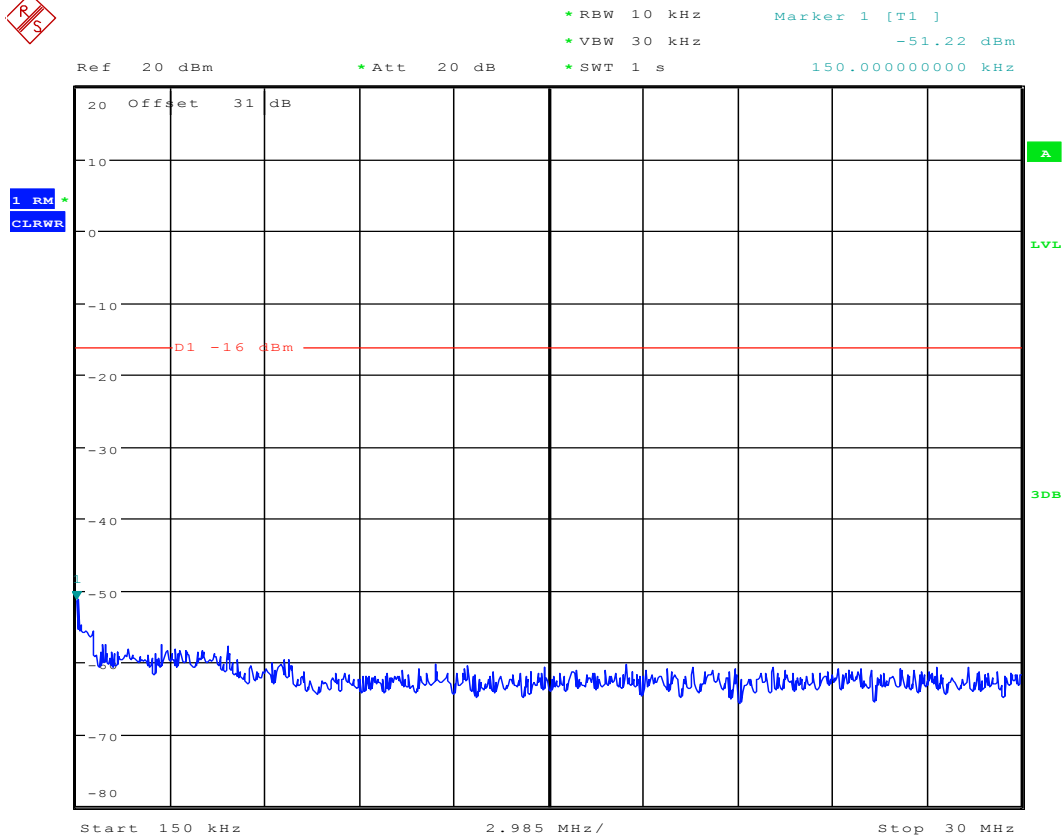
EUT Conf.	Maximum Emission [dBm]	Verdict
1L5M_B	<-13	Pass
1L5M_M	<-13	Pass
1L5M_T	<-13	Pass
1L20M_B	<-13	Pass
1L20M_M	<-13	Pass
1L20M_T	<-13	Pass

2 Test Plot

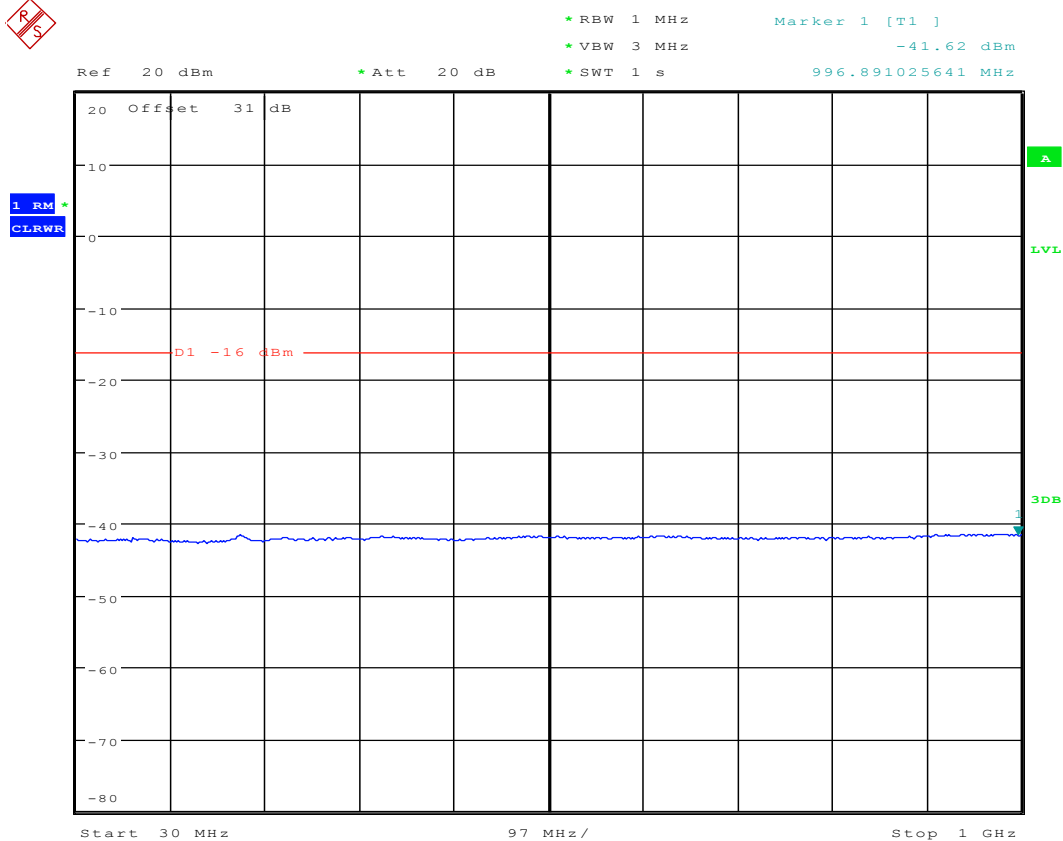
2.1 1L5M_B



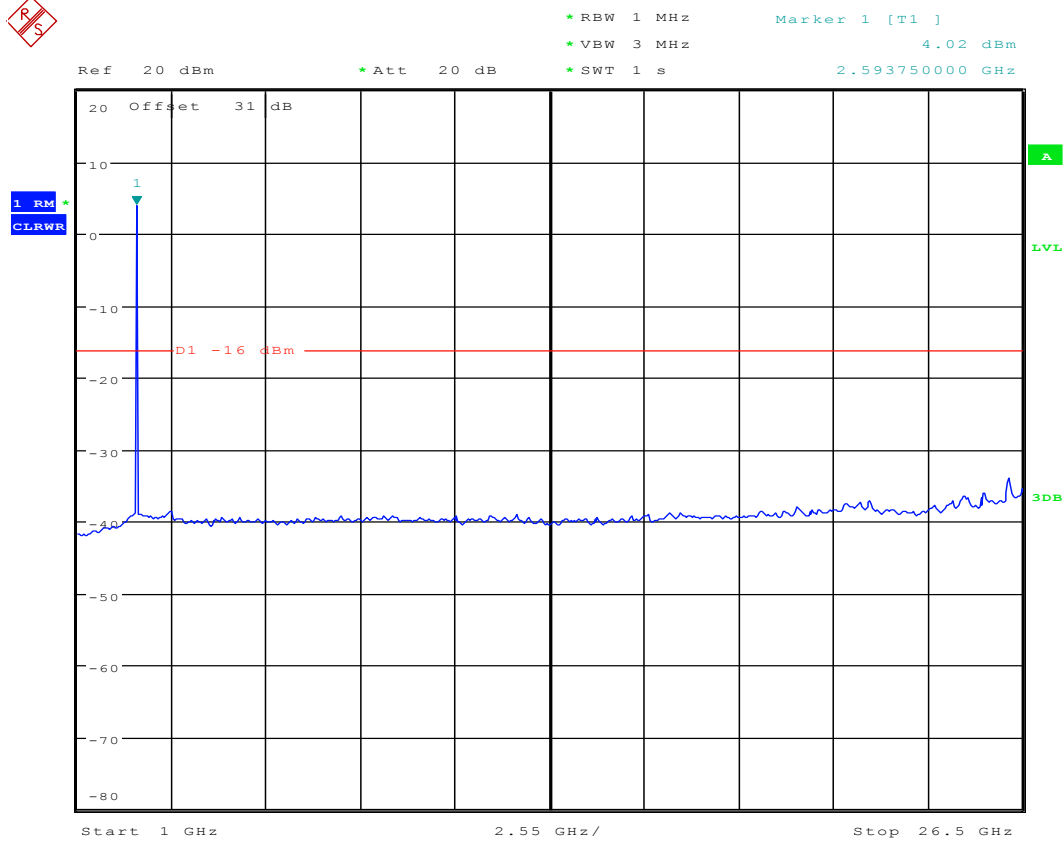
Date: 29.APR.2016 13:20:55



Date: 29.APR.2016 13:21:15

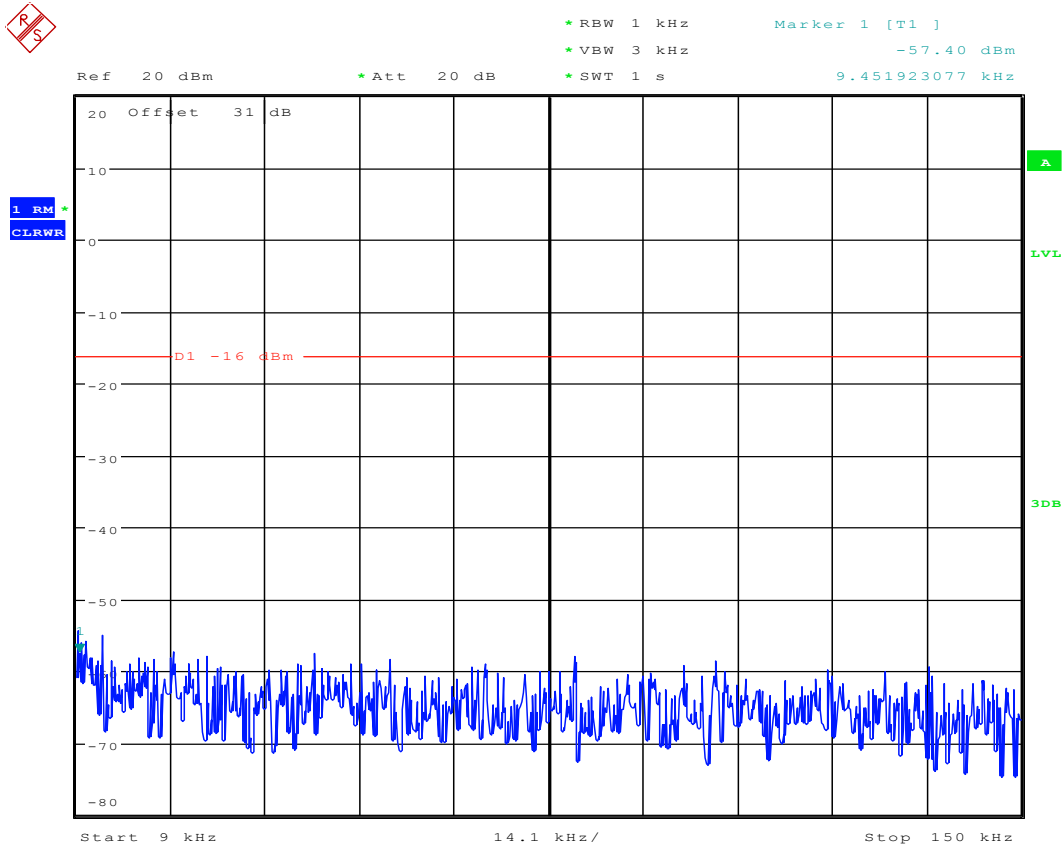


Date: 29.APR.2016 13:21:33

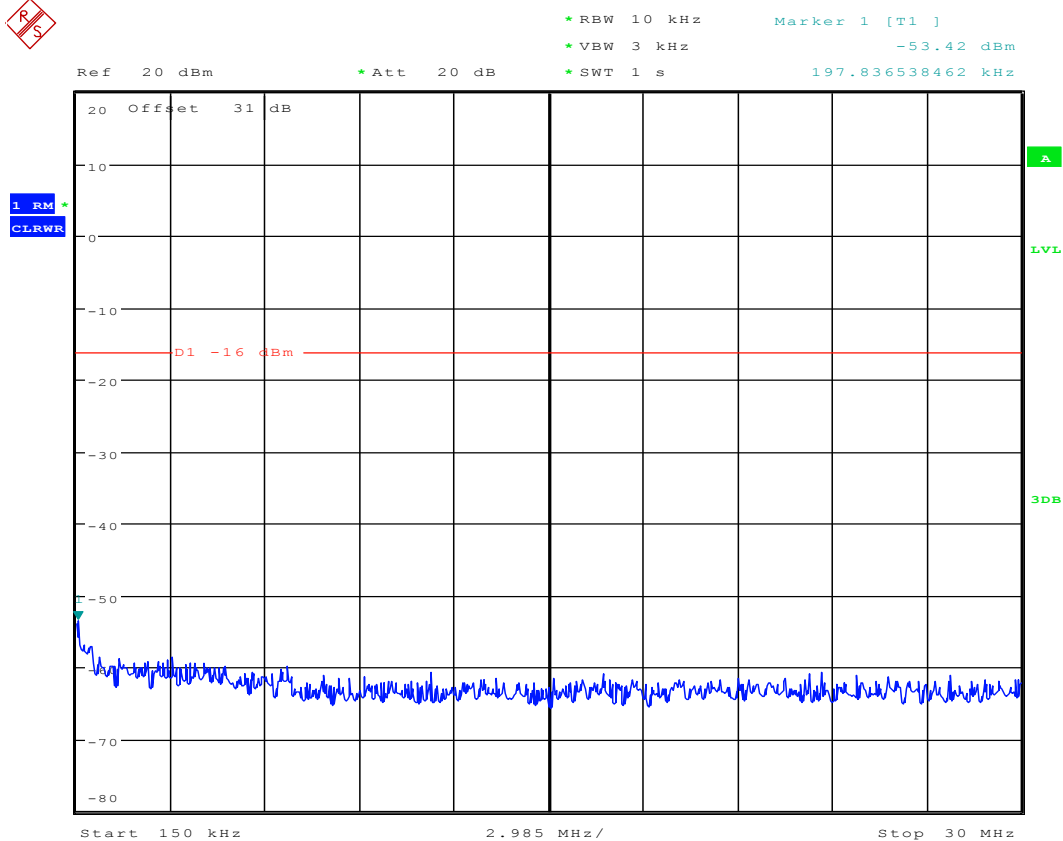


Date: 29.APR.2016 13:21:48

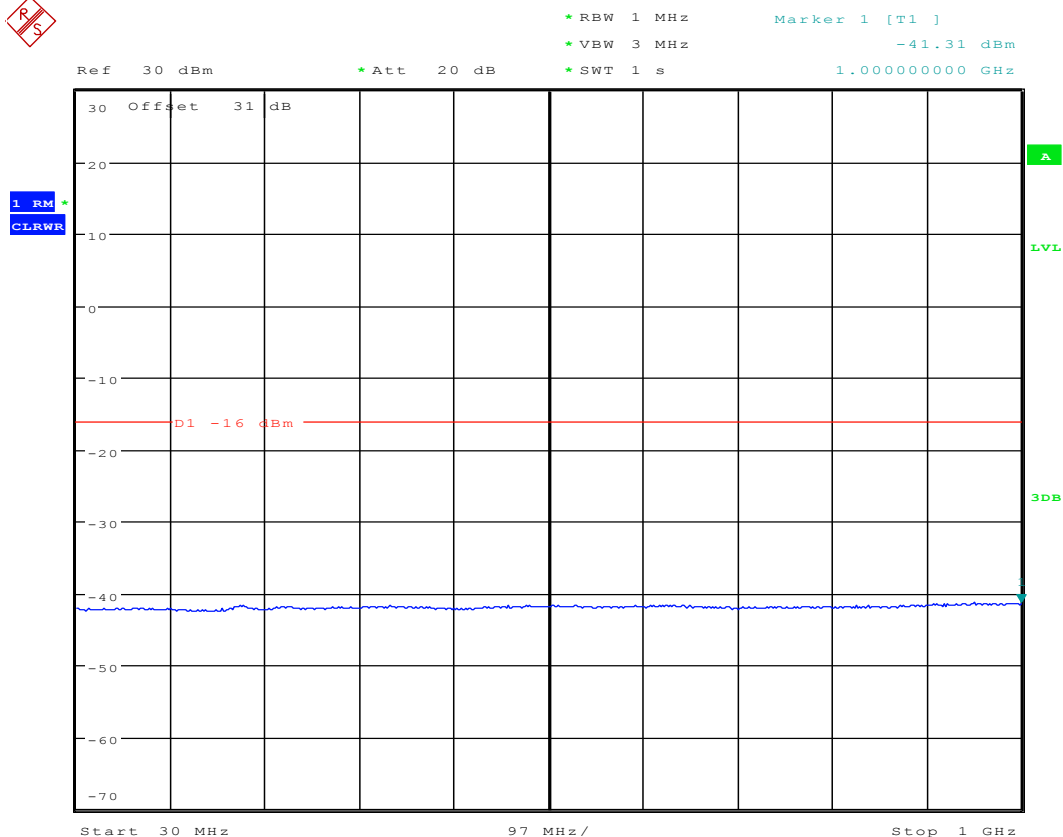
2.2 1L5M_M



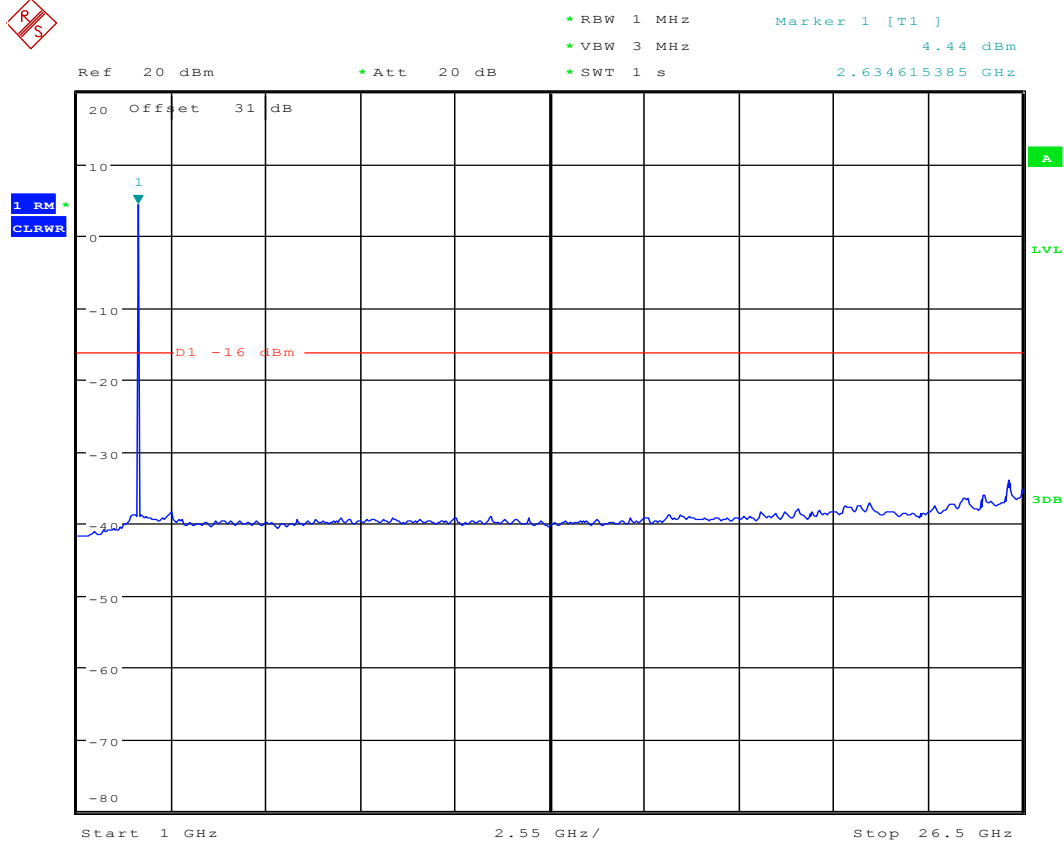
Date: 29.APR.2016 17:29:13



Date: 29.APR.2016 17:29:36

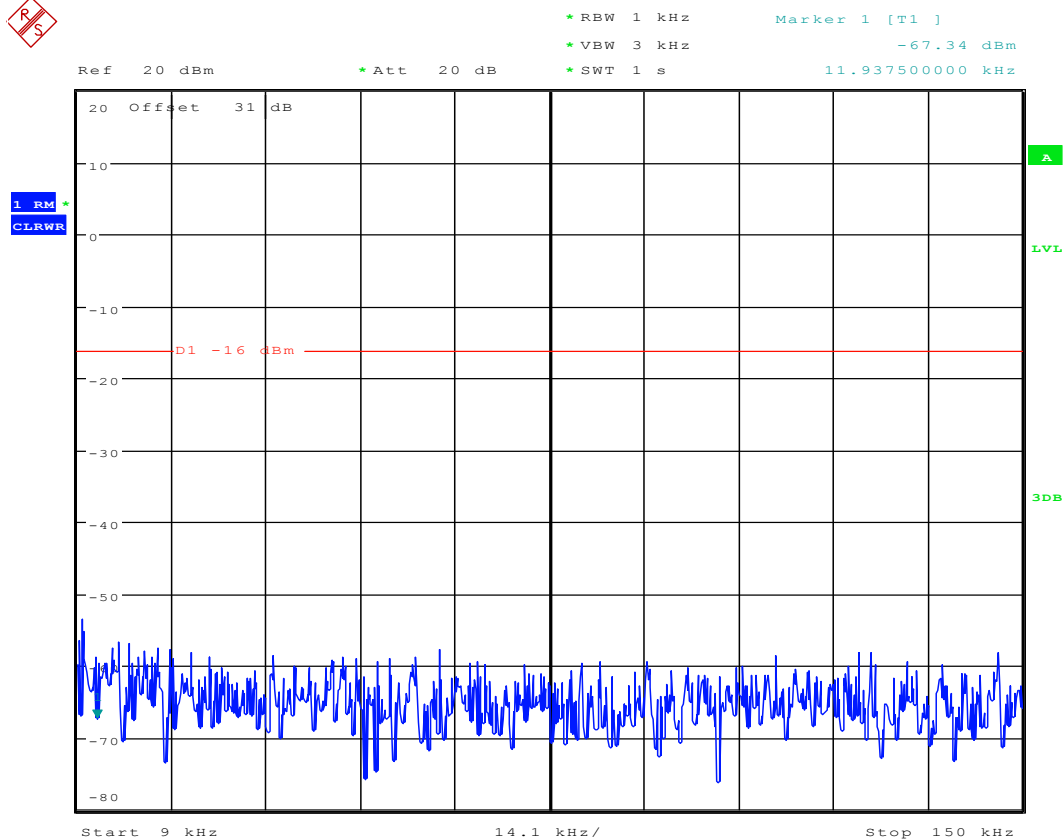


Date: 4.MAY.2016 13:26:10

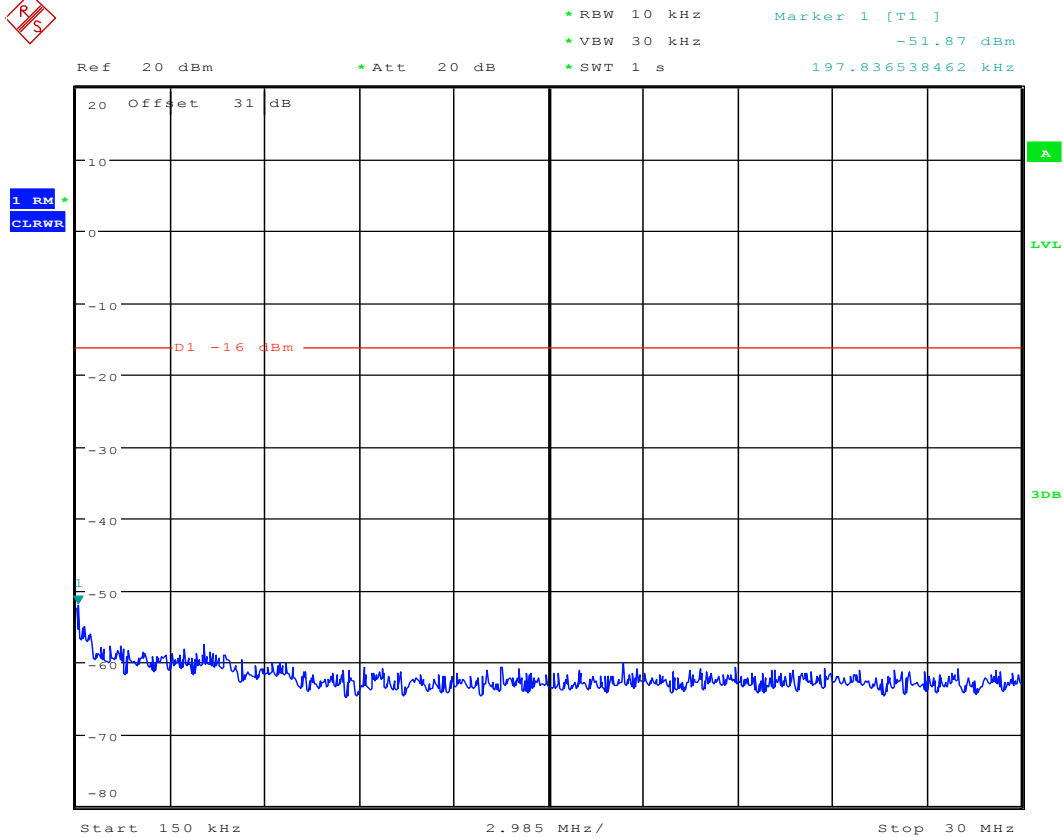


Date: 29.APR.2016 17:31:22

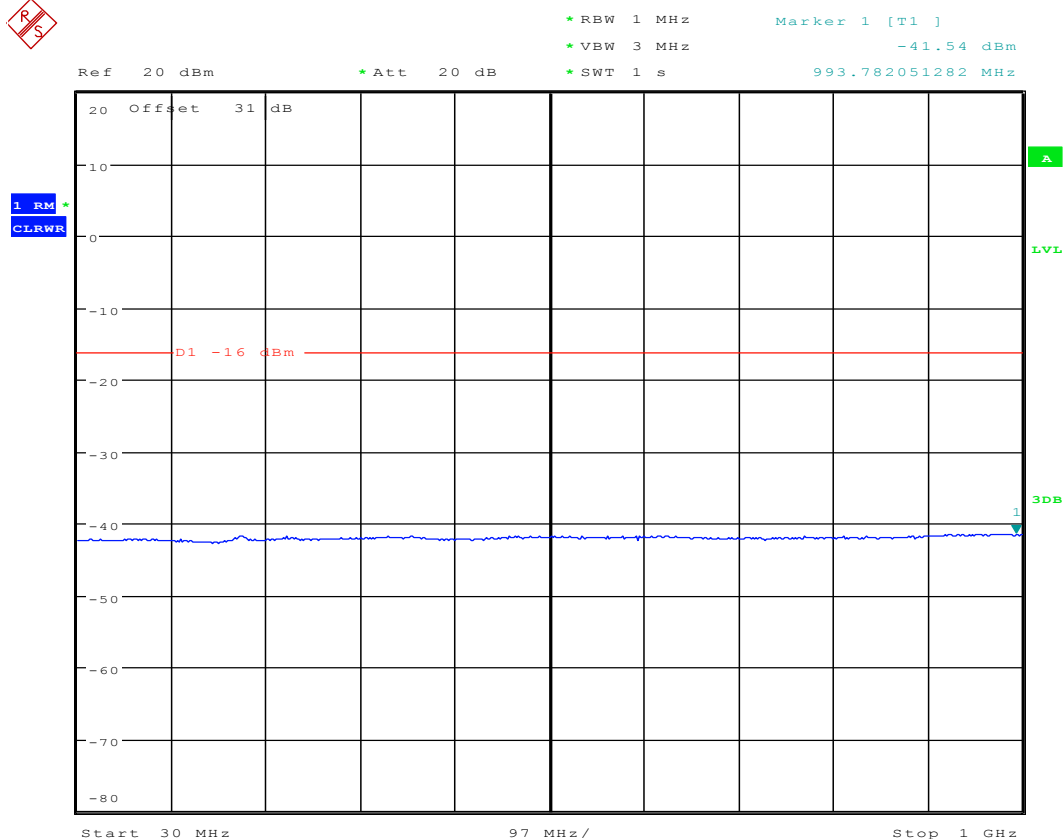
2.3 1L5M_T



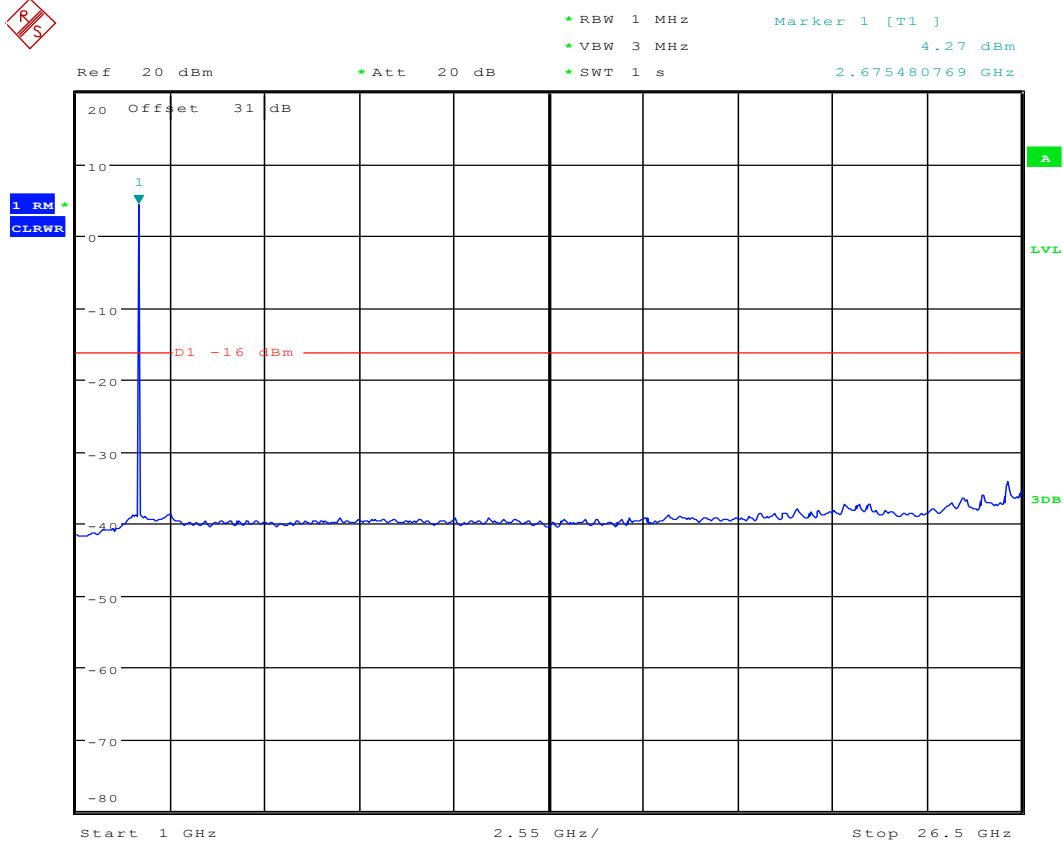
Date: 29.APR.2016 17:58:54



Date: 29.APR.2016 17:59:18



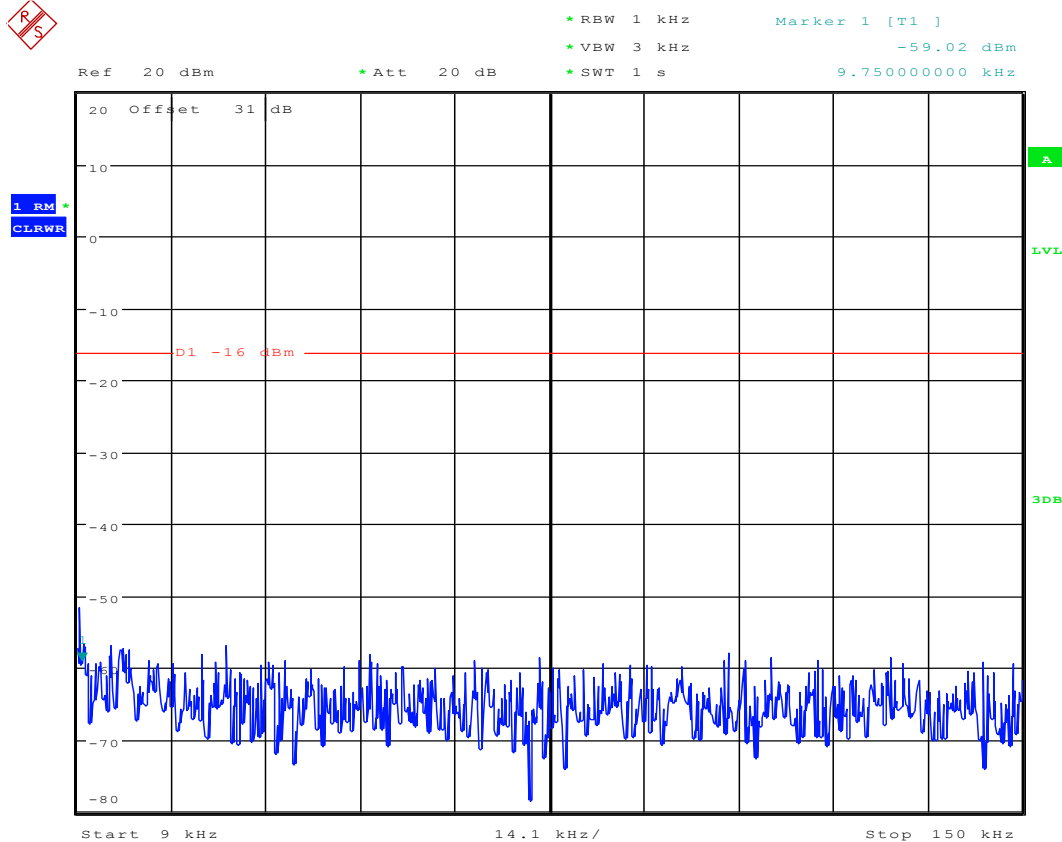
Date: 29.APR.2016 17:59:38



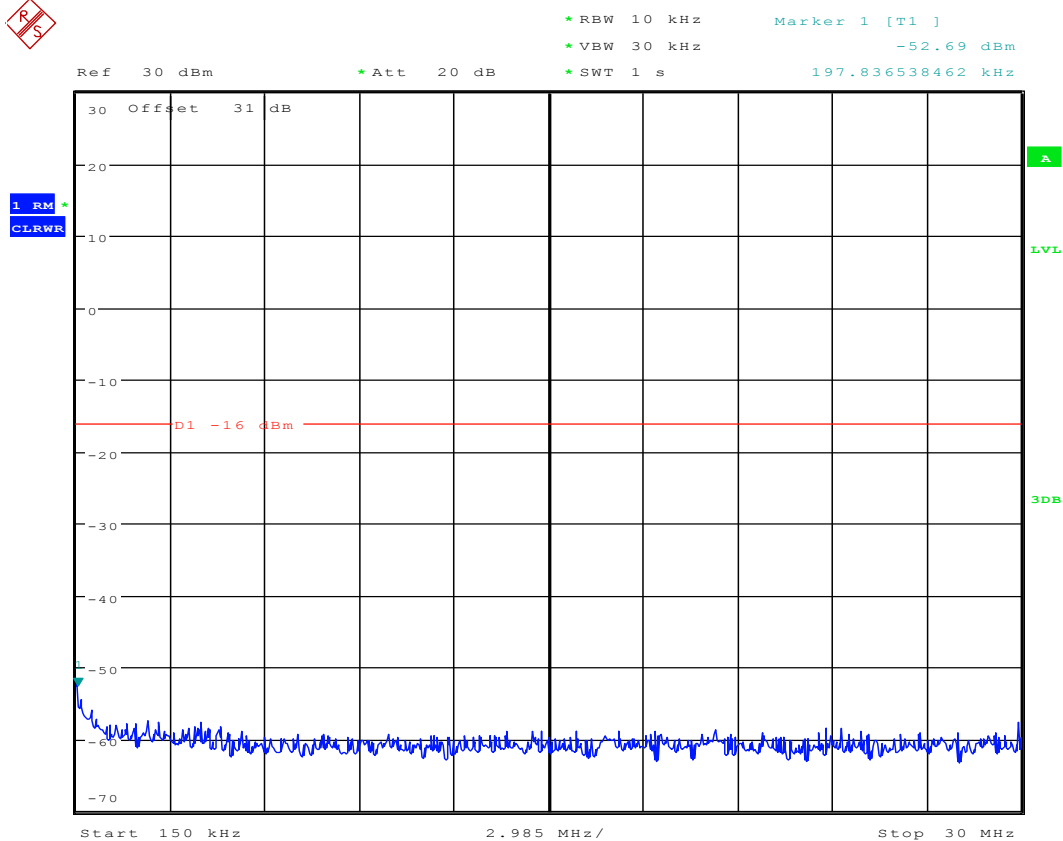
Date: 29.APR.2016 17:59:54



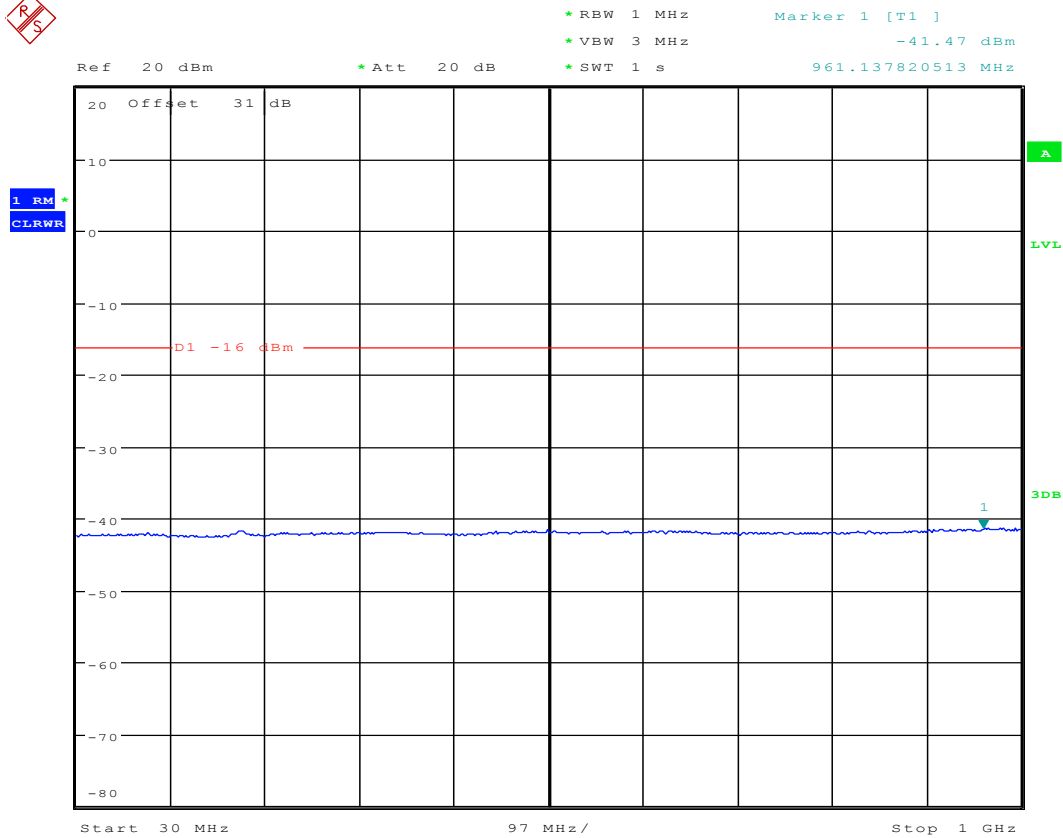
2.4 1L20M_B



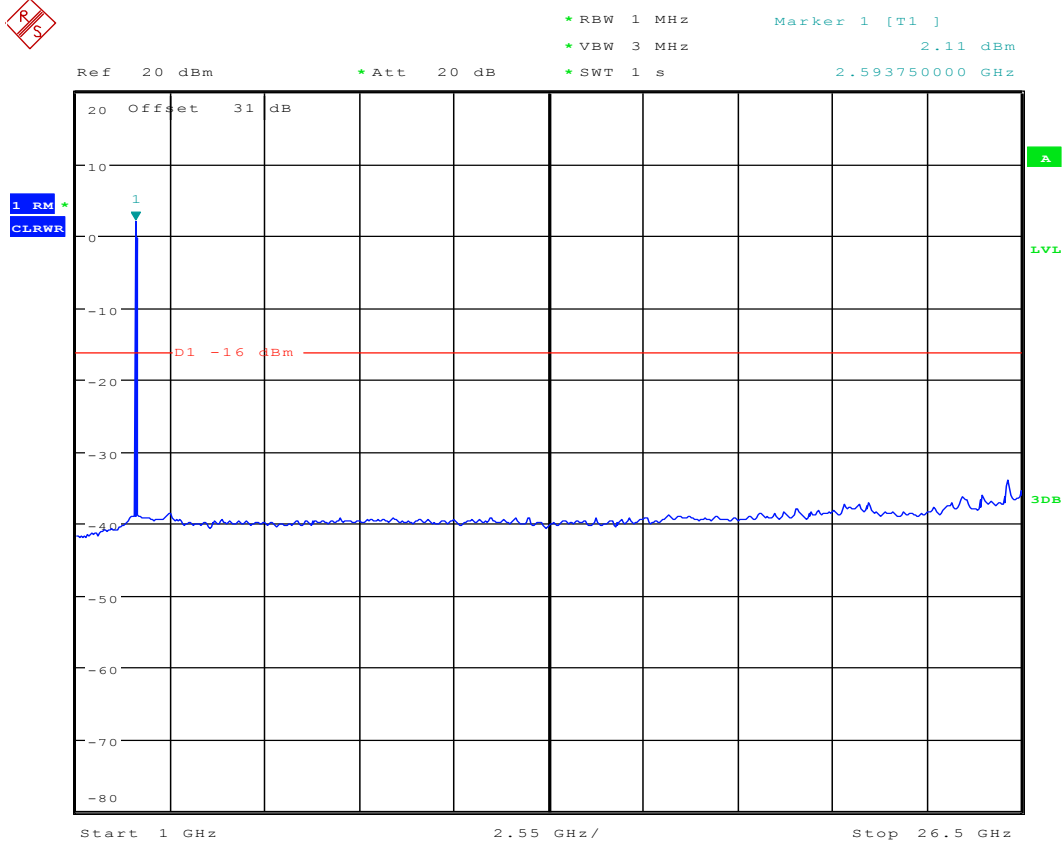
Date: 29.APR.2016 19:30:55



Date: 4.MAY.2016 13:35:45

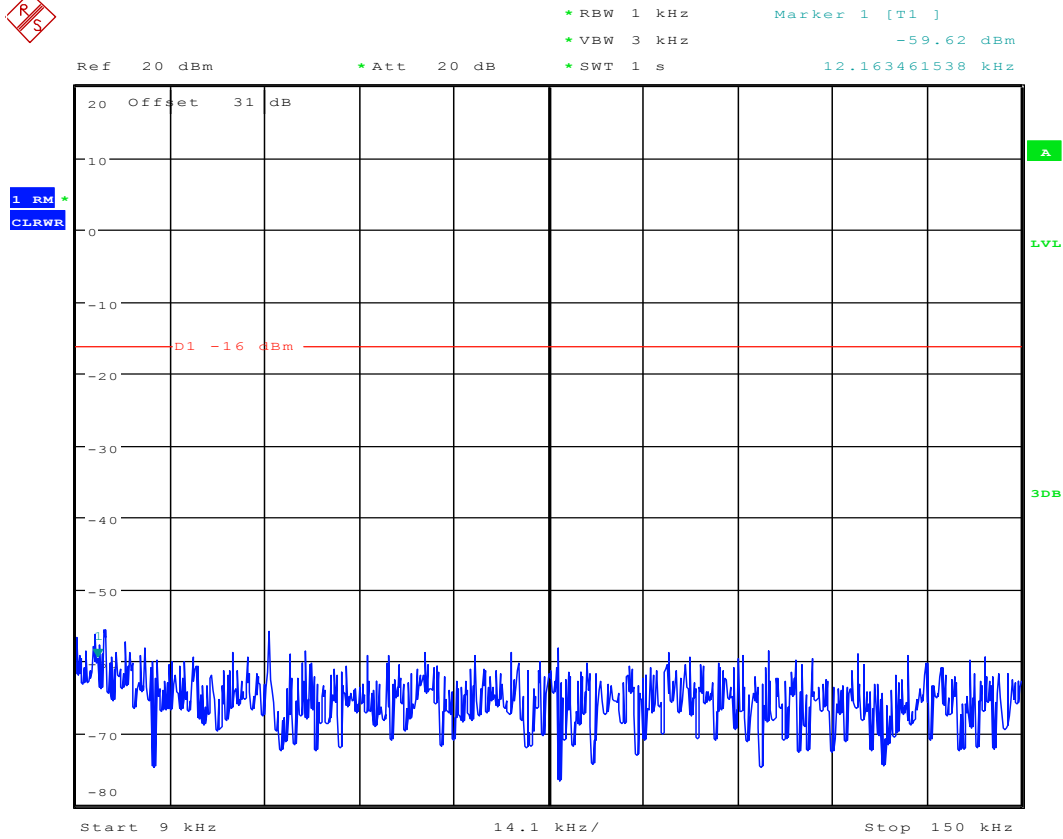


Date: 29.APR.2016 19:57:28

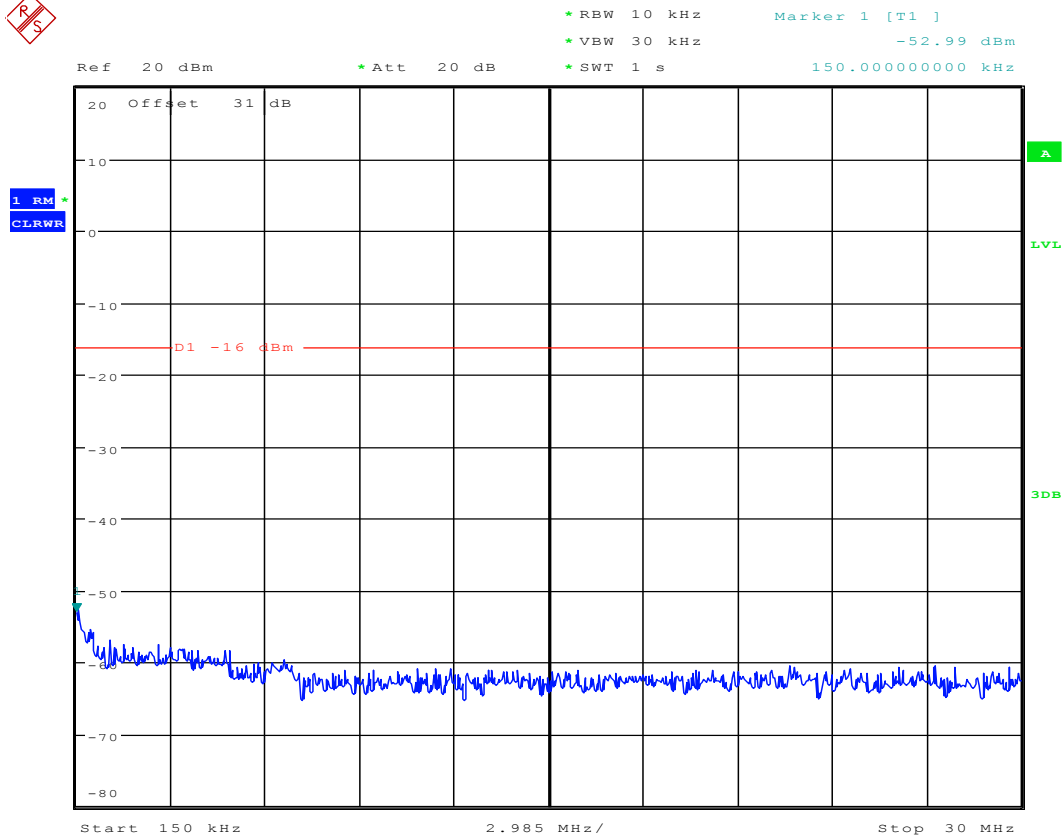


Date: 29.APR.2016 19:58:03

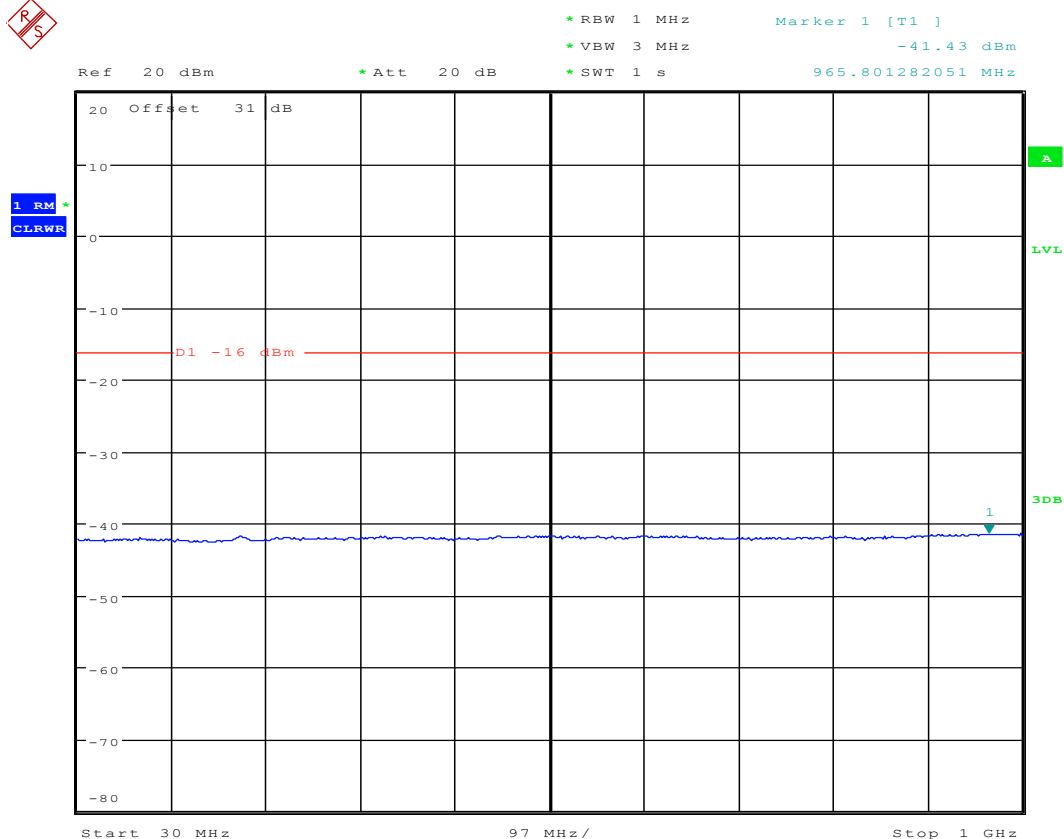
2.5 1L20M_M



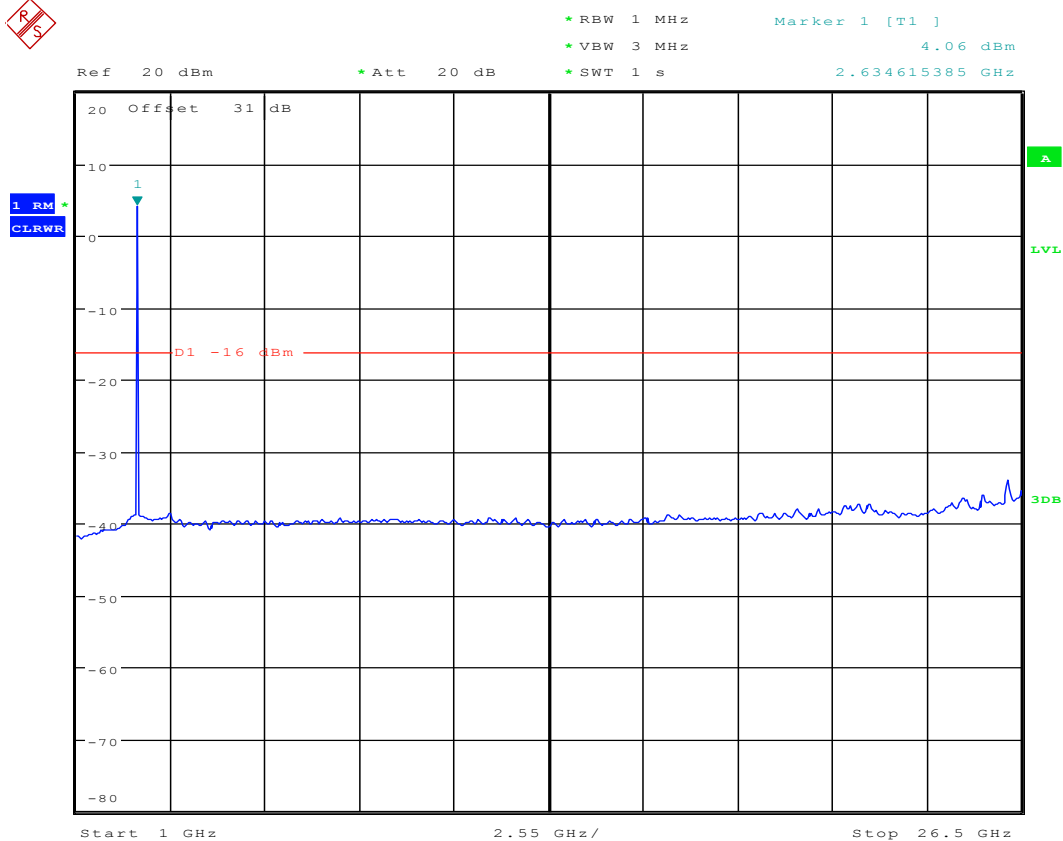
Date: 29.APR.2016 20:01:25



Date: 29.APR.2016 20:01:42

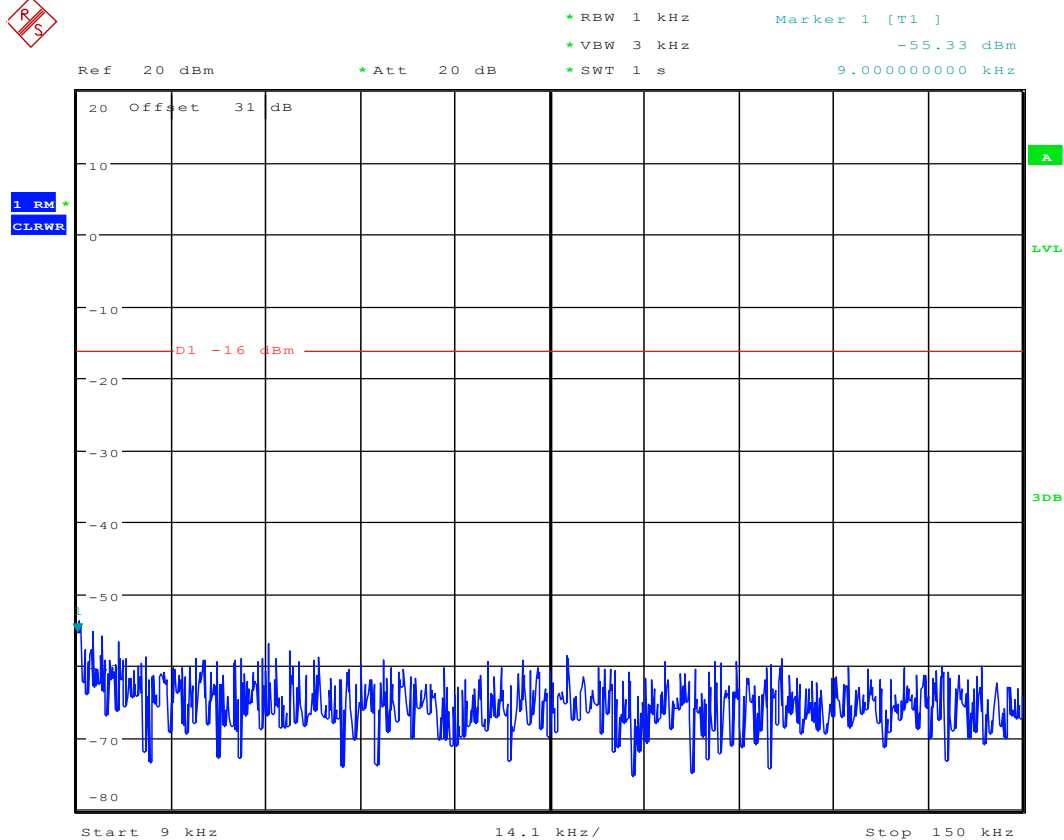


Date: 29.APR.2016 20:02:07

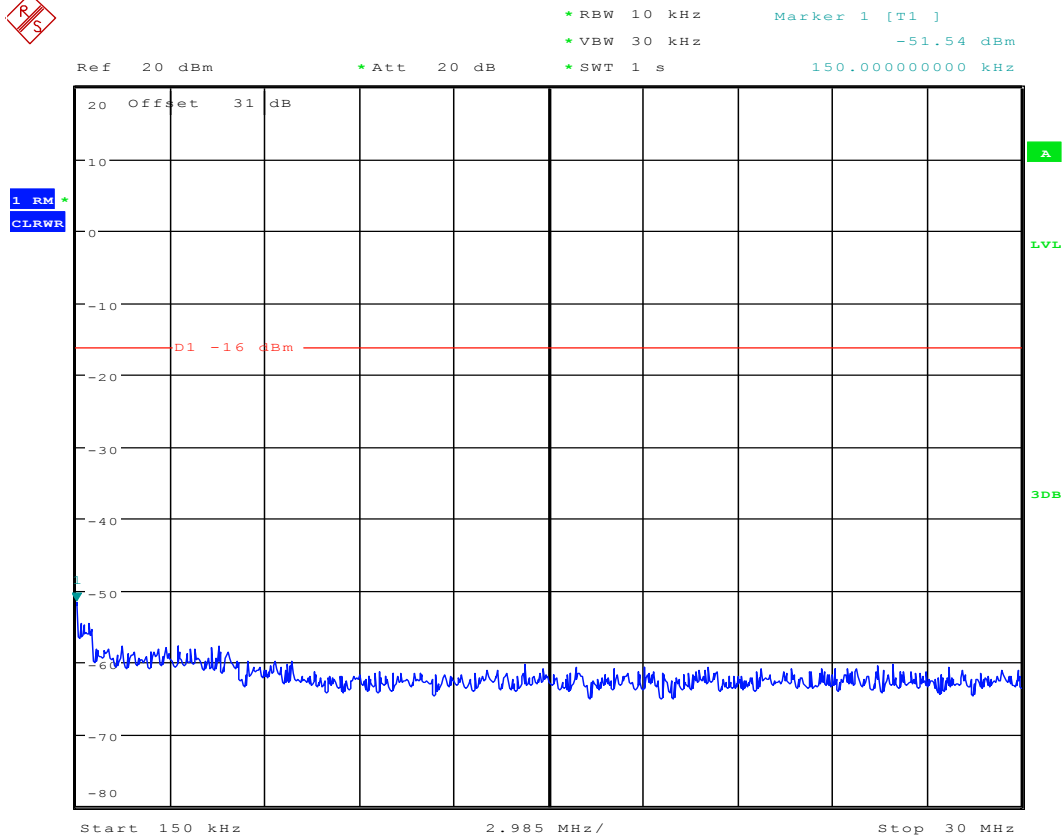


Date: 29.APR.2016 20:02:21

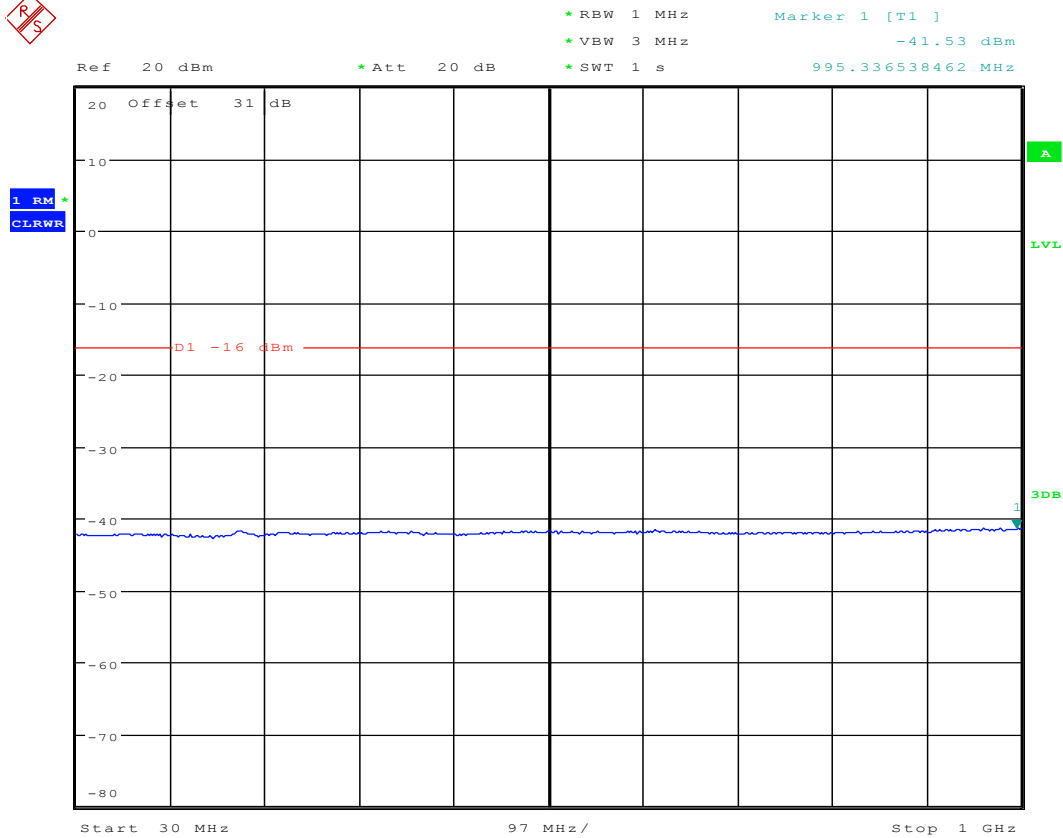
2.6 1L20M_T



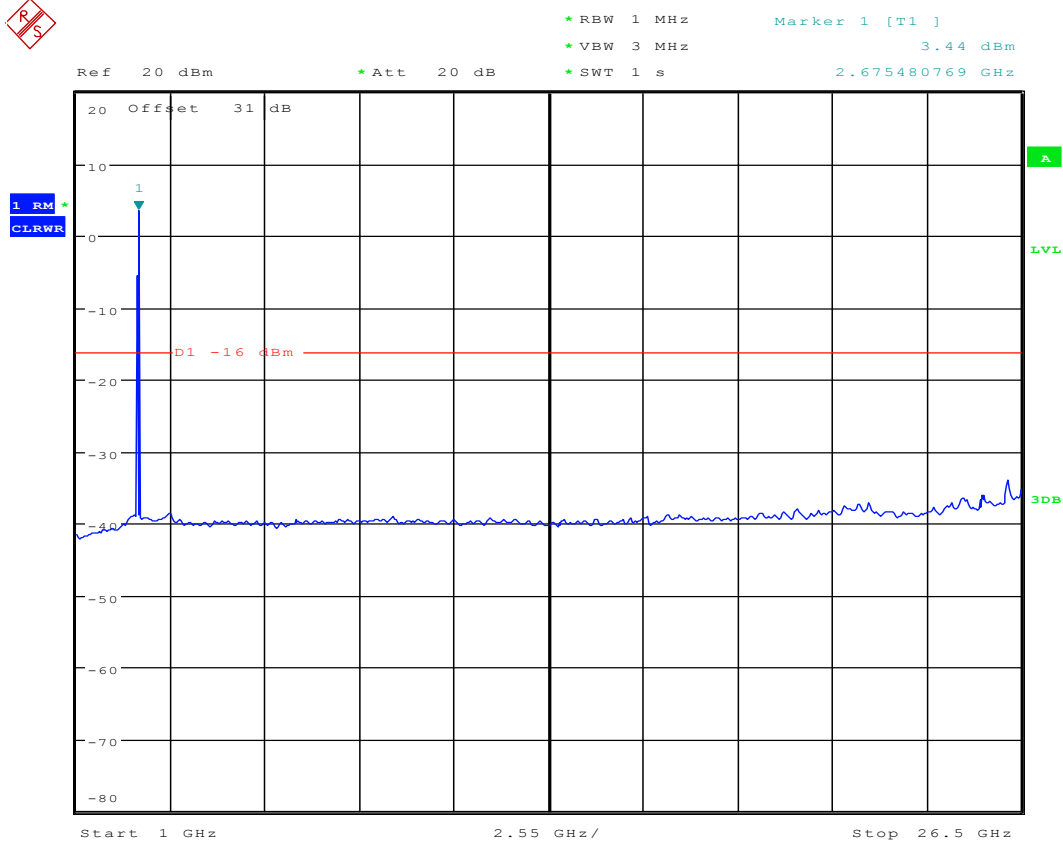
Date: 29.APR.2016 20:07:13



Date: 29.APR.2016 20:07:31



Date: 29.APR.2016 20:07:50



Date: 29.APR.2016 20:08:03



Appendix E: Radiated (Spurious) Emissions



1 Result Table

EUT Conf.	Measured Curve Conformed to the Emission Limit?	Verdict
1L5M_M (Worst case)	Yes	Pass

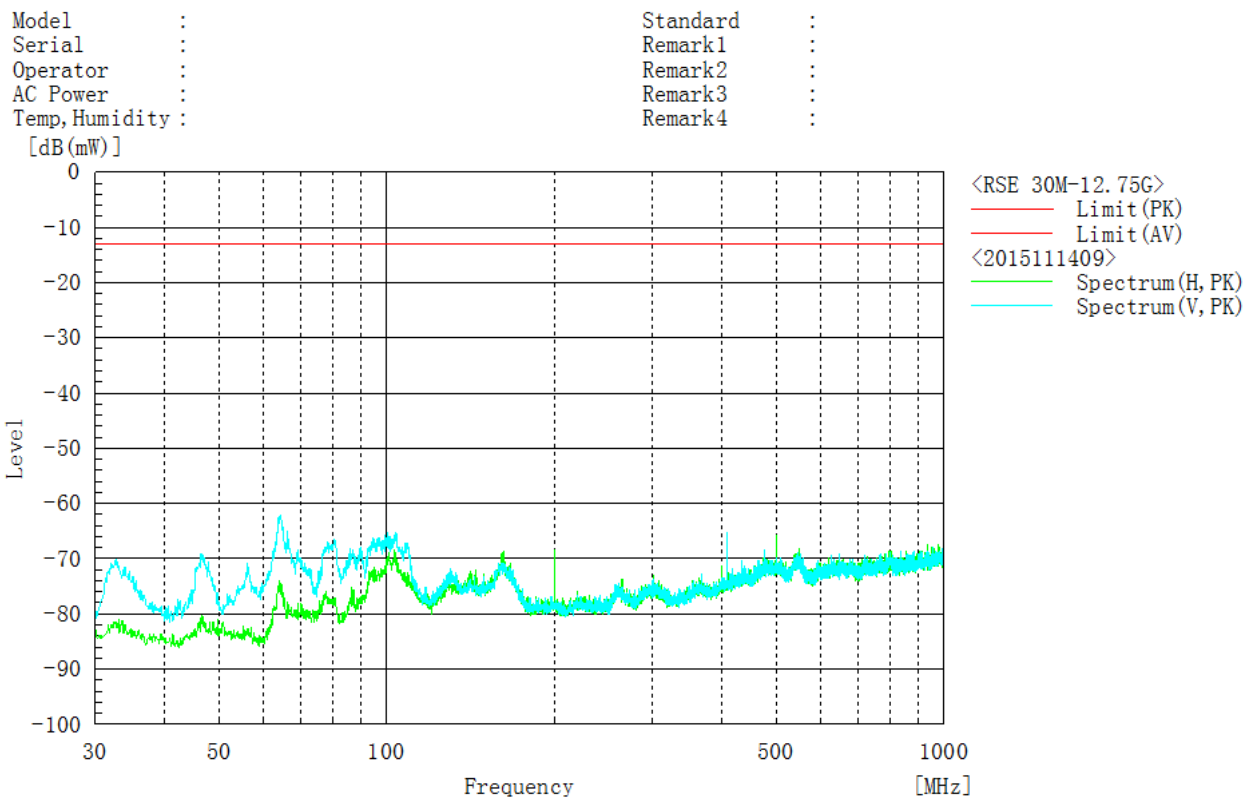
Note: The setting of analyzer is below

Frequency range	RBW	Detector
30MHz to 1GHz	1MHz	Average
1GHz to 18GHz	1MHz	Average
18GHz to 26.5GHz	1MHz	Average

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

2 Test Plot

2.1 30MHz-1GHz

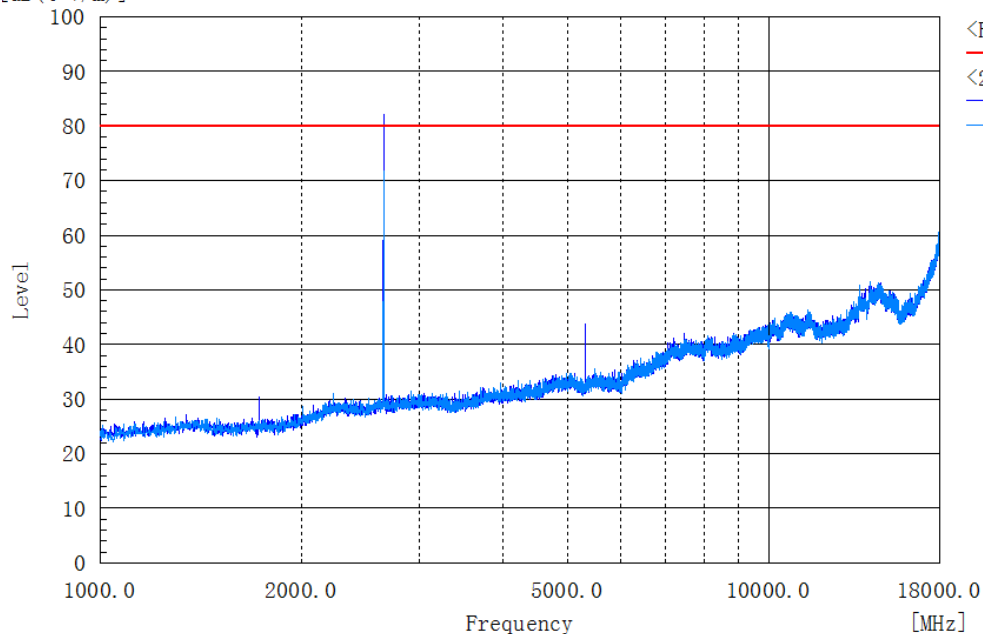




2.2 1GHz-18GHz

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

[dB(μV/m)]



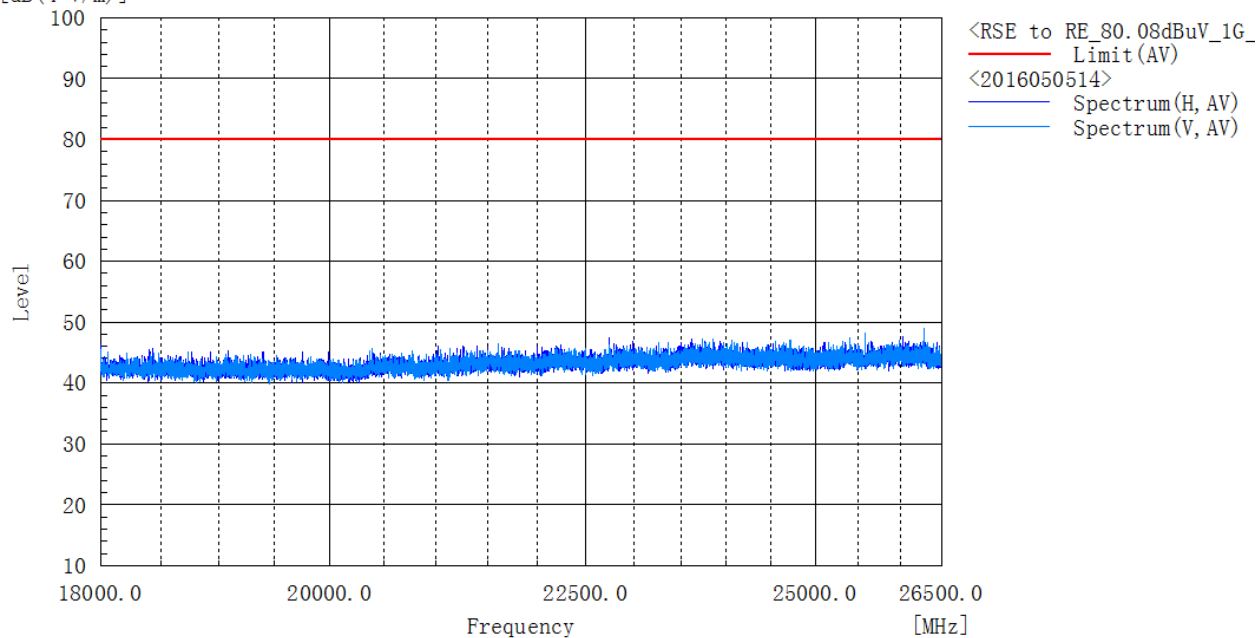
<RSE to RE_80.08dBuV_1G_
Limit(AV)
<2016050510>
Spectrum(H, AV)
Spectrum(V, AV)



2.3 18GHz-26.5GHz

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

[dB(μV/m)]





Appendix F: 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
1L5M_M	100%	-30 °C	-2.19	-0.00082	-0.00025	Pass
		-20 °C	-1.98	-0.00075	-0.00017	Pass
		-10 °C	-2.20	-0.00083	-0.00026	Pass
		0 °C	-1.89	-0.00071	-0.00014	Pass
		+10 °C	-1.57	-0.00059	-0.00002	Pass
		+20 °C	-1.52	-0.00057	---	Pass
		+30 °C	-1.39	-0.00052	0.00005	Pass
		+40 °C	-1.99	-0.00075	-0.00018	Pass
		+50 °C	-2.15	-0.00081	-0.00024	Pass

(2) Frequency Error vs. Voltage:

EUT Conf.	Temperature	Voltage	Freq. Error [Hz]	Freq. vs. rated [ppm]	Freq. vs. 20 °C [ppm]	Verdict
1L5M_M	+20 °C	85 %	-2.02	-0.00076	-0.00019	Pass
		100 %	-1.52	-0.00057	---	Pass
		115 %	-2.35	-0.00089	-0.00031	Pass

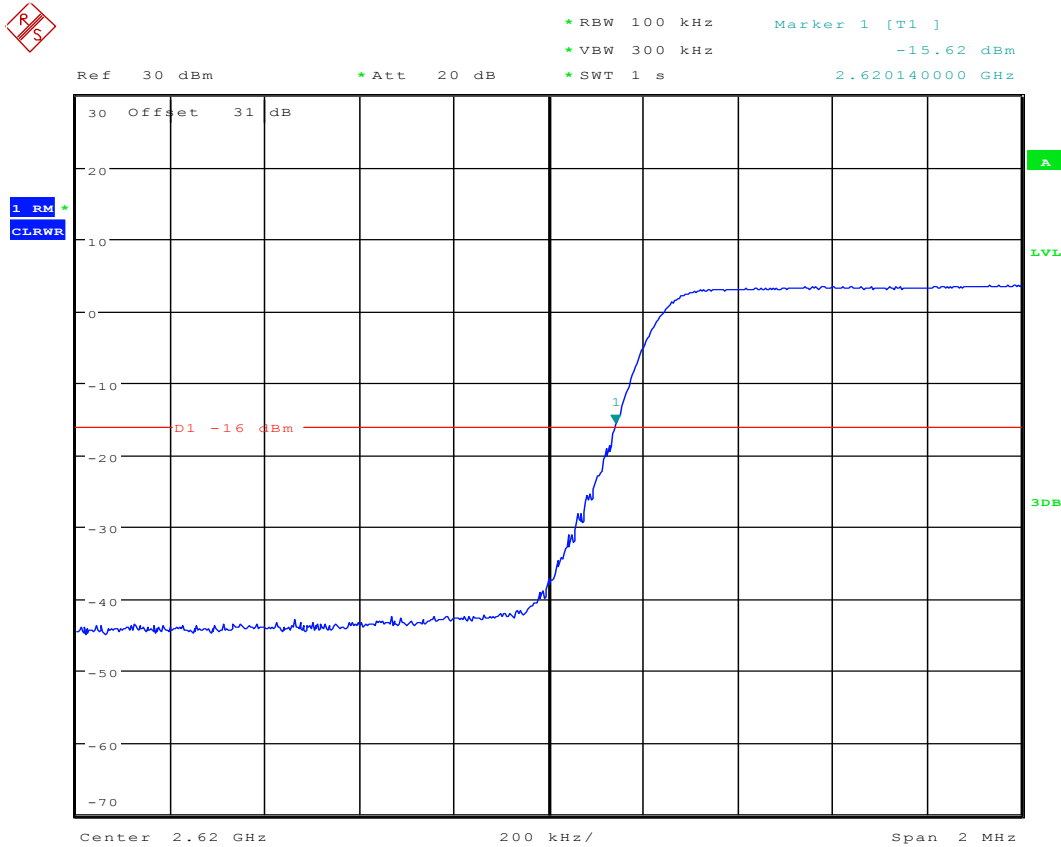
1.2 Frequency Range

EUT Conf.	$f_L - f(\text{offset}) $ or $f_H + f(\text{offset}) $	Verdict
1L5M_B	2620.13999848	Pass
1L5M_T	2689.81000152	Pass
1L10M_B	2620.39999848	Pass
1L10M_T	2689.60000152	Pass
1L15M_B	2620.49999848	Pass
1L15M_T	2689.49000152	Pass
1L20M_B	2620.77999848	Pass
1L20M_T	2689.22000152	Pass

2 Test Plot

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

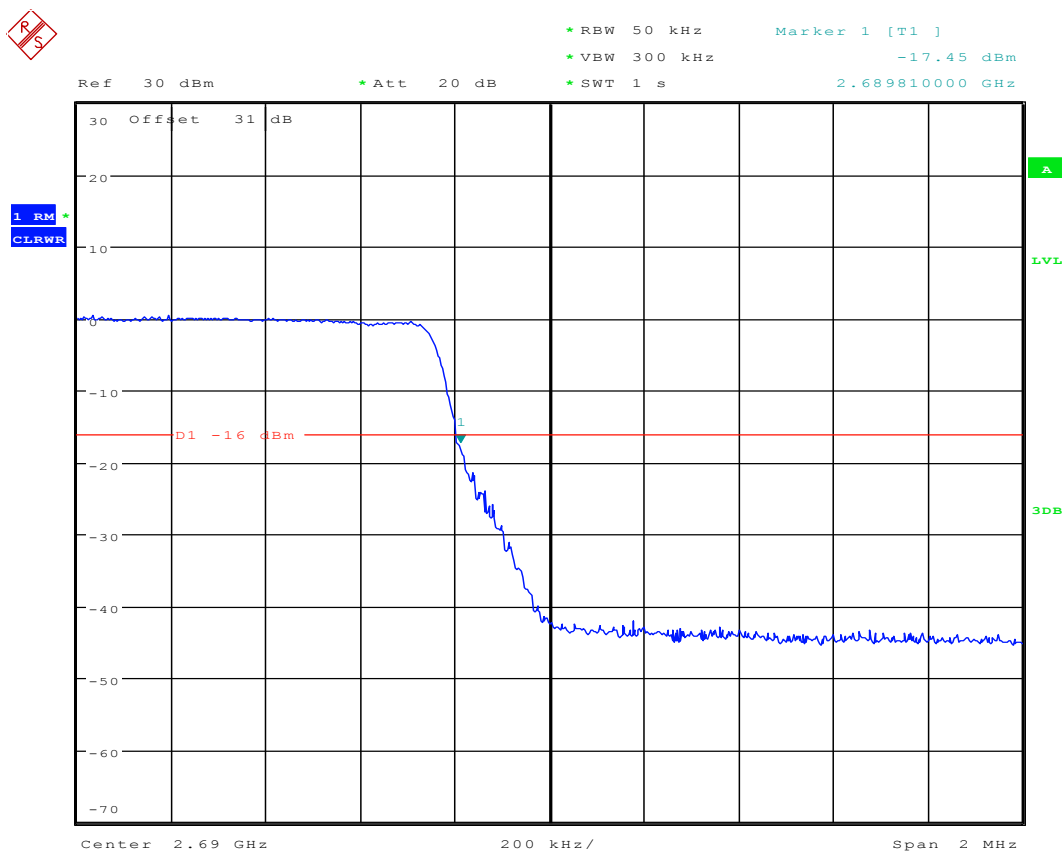
2.1 1L5M_B



Date: 29.APR.2016 13:20:25

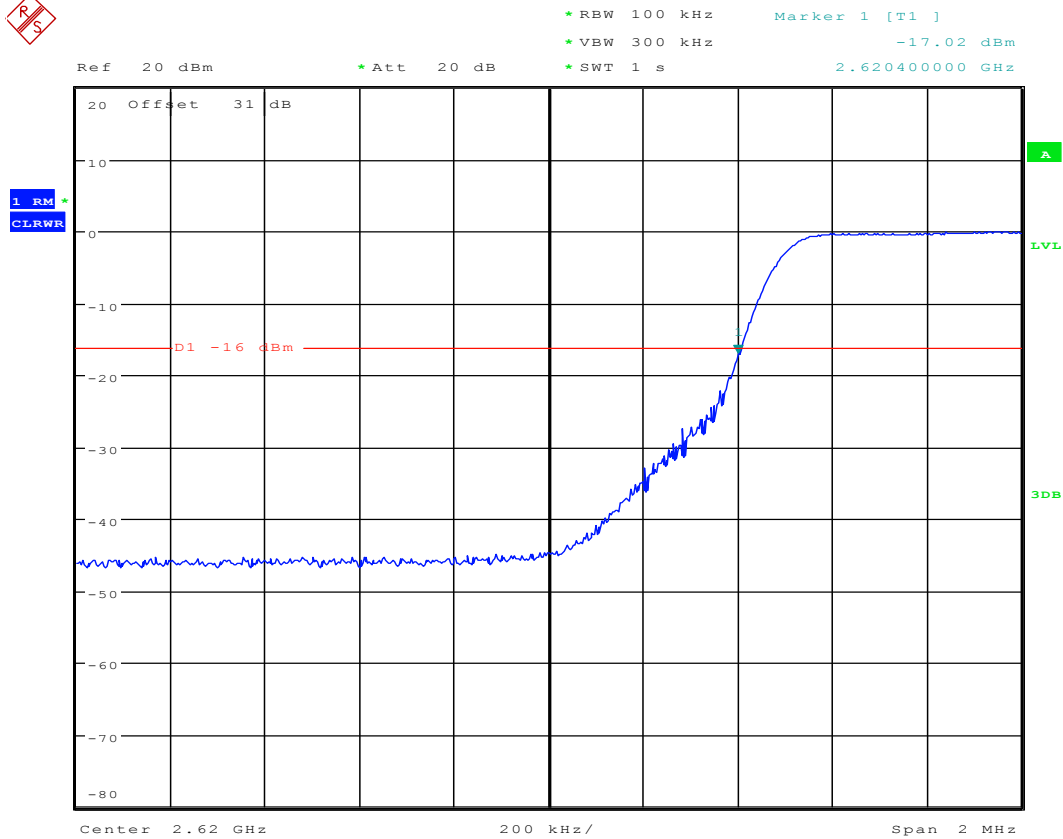


2.2 1L5M_T



Date: 29.APR.2016 17:58:24

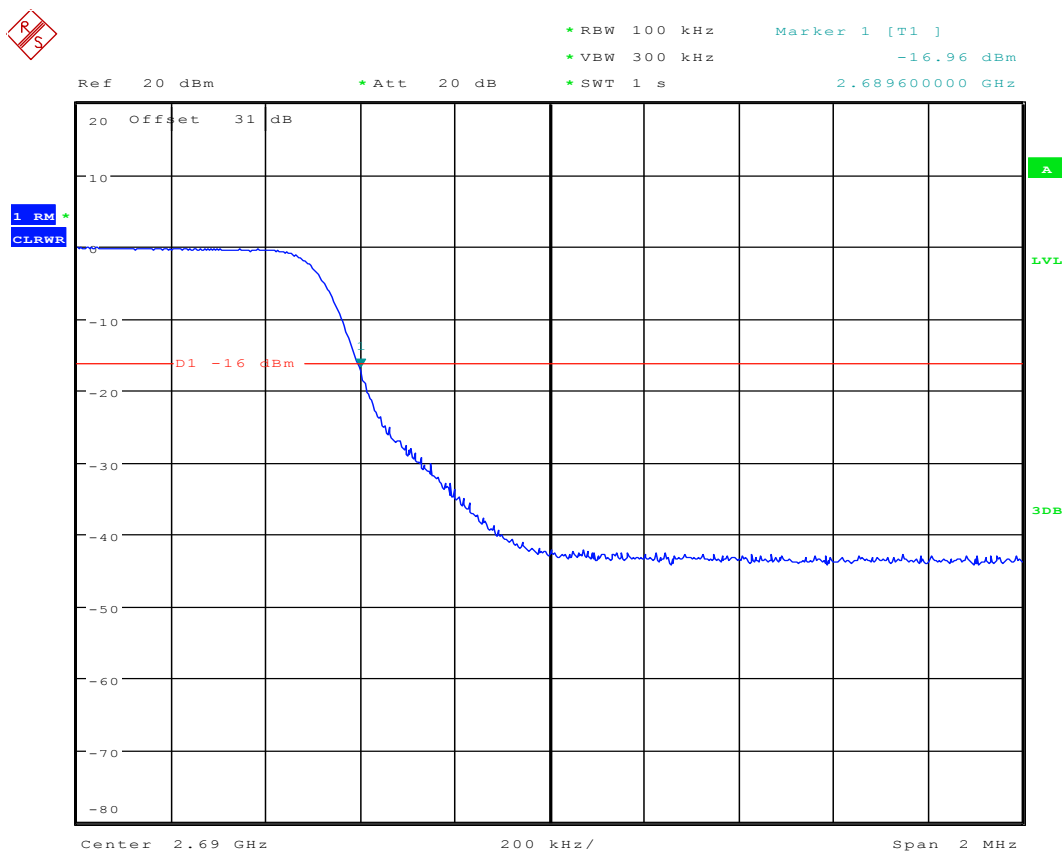
2.3 1L10M_B



Date: 29.APR.2016 18:52:46



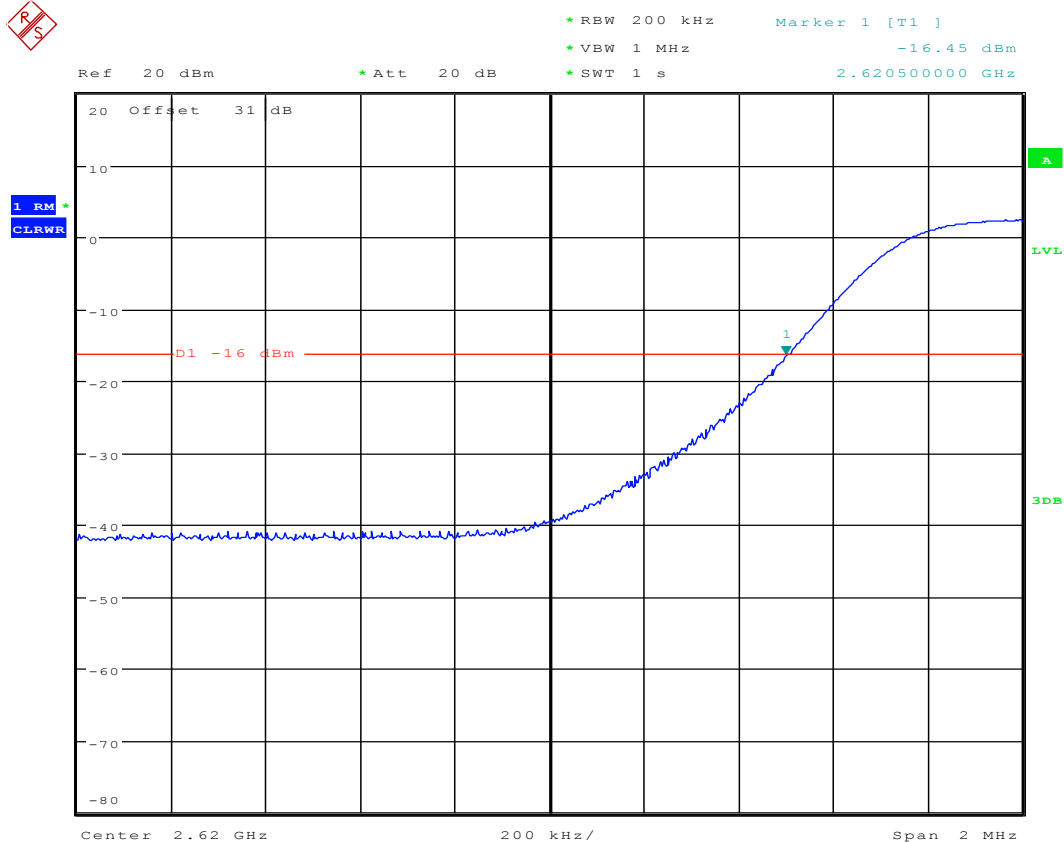
2.4 1L10M_T



Date: 29.APR.2016 19:06:34



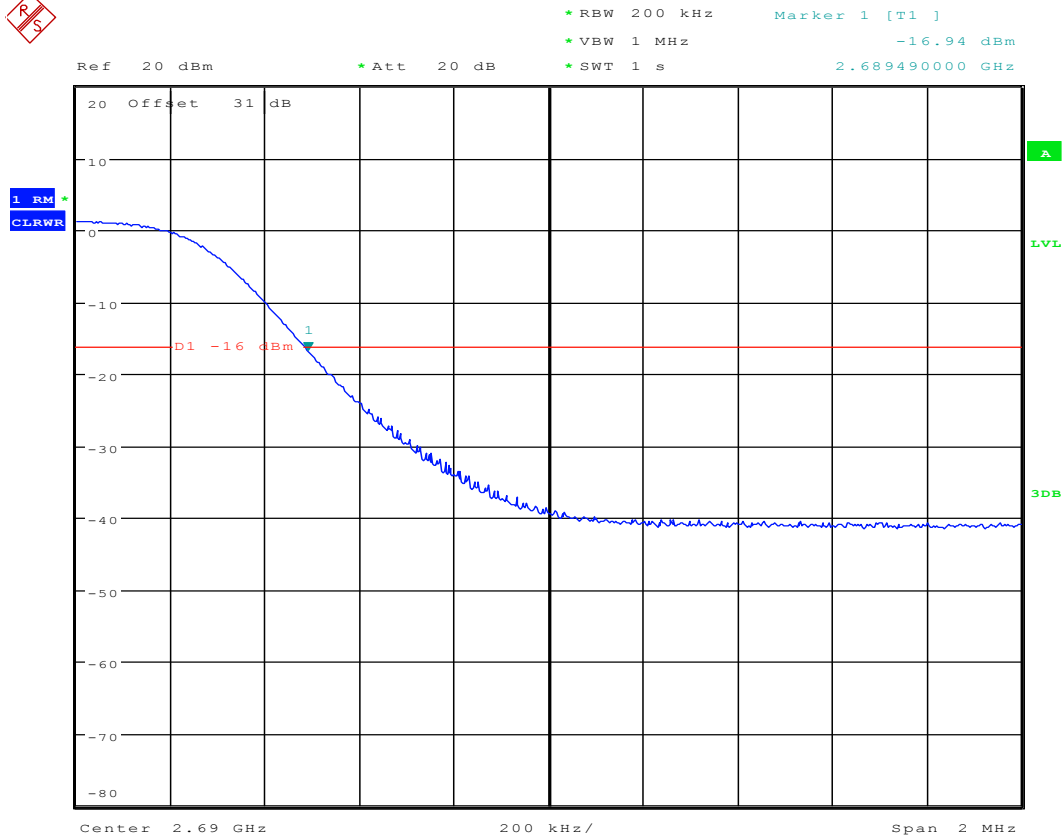
2.5 1L15M_B



Date: 29.APR.2016 19:16:53



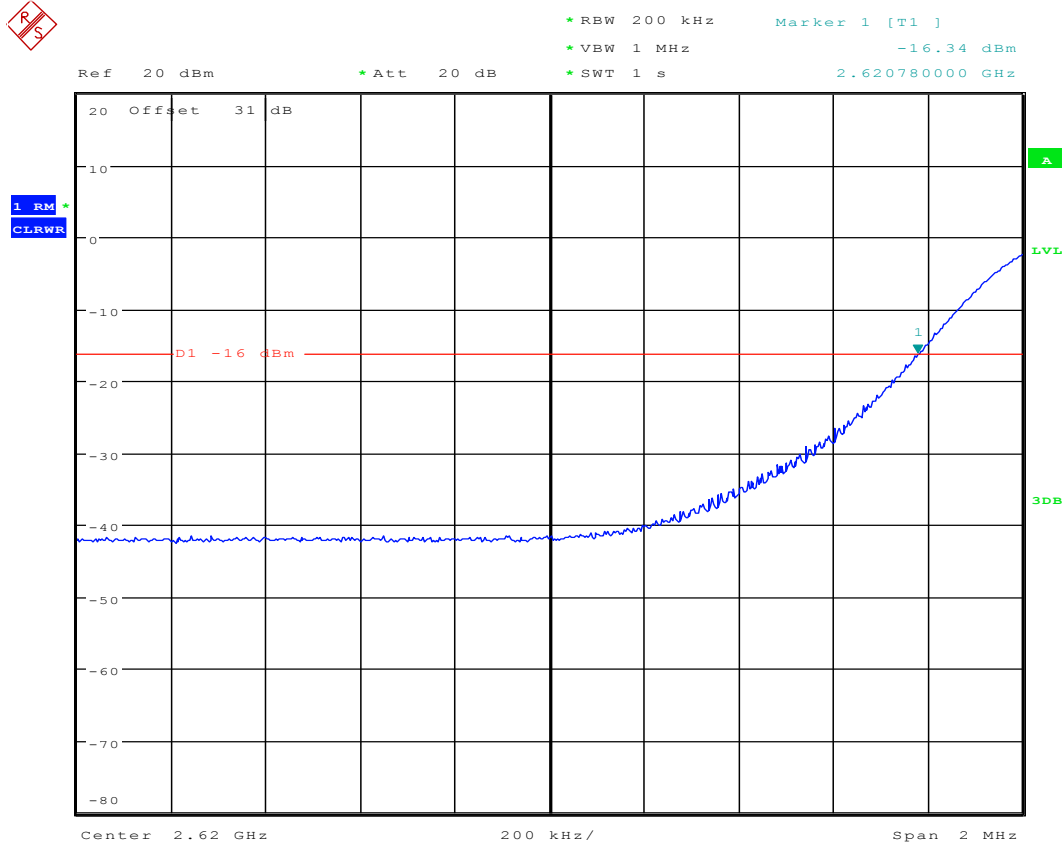
2.6 1L15M_T



Date: 29.APR.2016 19:23:26



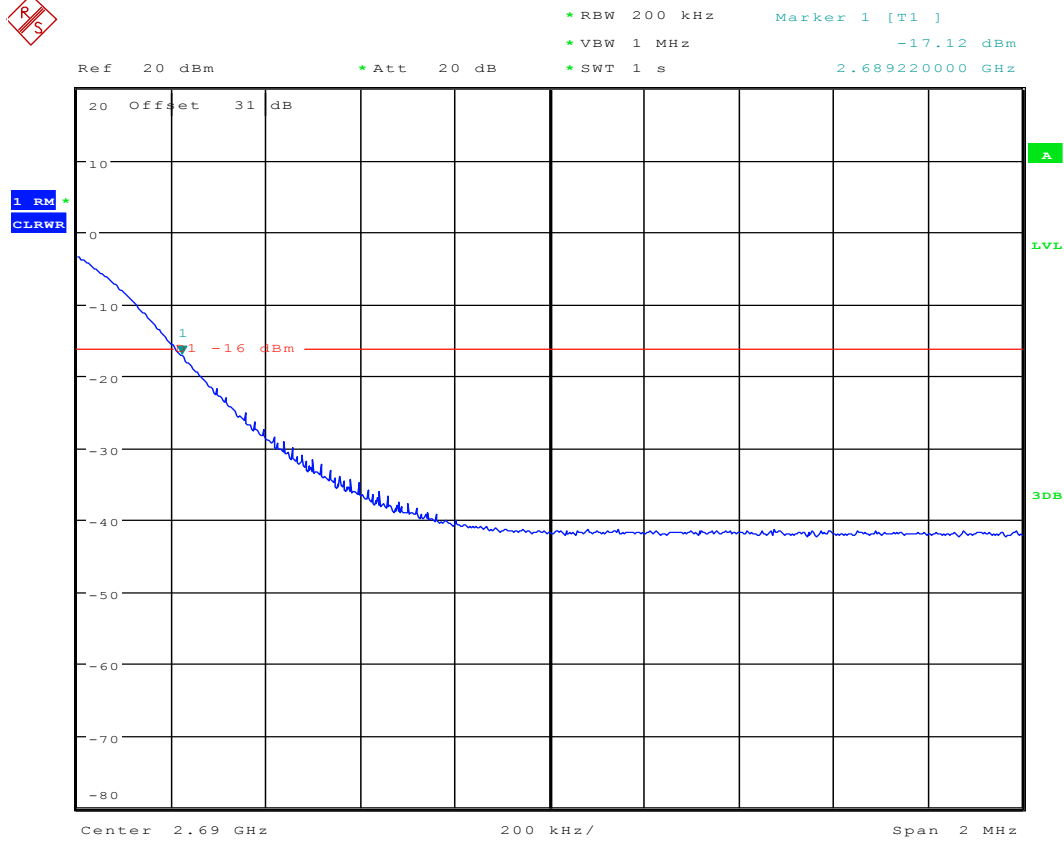
2.7 1L20M_B



Date: 29.APR.2016 19:30:17



2.8 1L20M_T



Date: 29.APR.2016 20:05:57



Appendix G: Receiver Spurious Emissions



1 Result Table

(Not applicable)

2 Test Plot

(Not applicable)

END