



# Appendix B

## GSM 850 & 1900



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## 1. Effective (Isotropic) Radiated Power Output Data

### 1.1. Test Result for Down Ant

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.31	29.26	38.45	PASS
GSM850	190	---	32.30	29.25	38.45	PASS
GSM850	251	---	32.27	29.22	38.45	PASS
EGPRS850 (GMSK)	128	1	32.05	29.00	38.45	PASS
EGPRS850 (GMSK)	128	2	29.01	25.96	38.45	PASS
EGPRS850 (GMSK)	128	3	27.09	24.04	38.45	PASS
EGPRS850 (GMSK)	128	4	26.03	22.98	38.45	PASS
EGPRS850 (GMSK)	190	1	32.21	29.16	38.45	PASS
EGPRS850 (GMSK)	190	2	29.00	25.95	38.45	PASS
EGPRS850 (GMSK)	190	3	27.10	24.05	38.45	PASS
EGPRS850 (GMSK)	190	4	26.01	22.96	38.45	PASS
EGPRS850 (GMSK)	251	1	32.14	29.09	38.45	PASS
EGPRS850 (GMSK)	251	2	28.99	25.94	38.45	PASS
EGPRS850 (GMSK)	251	3	27.02	23.97	38.45	PASS
EGPRS850 (GMSK)	251	4	26.03	22.98	38.45	PASS
EGPRS850 (8PSK)	128	1	26.25	23.20	38.45	PASS
EGPRS850 (8PSK)	128	2	23.02	19.97	38.45	PASS
EGPRS850 (8PSK)	128	3	21.23	18.18	38.45	PASS
EGPRS850 (8PSK)	128	4	20.01	16.96	38.45	PASS
EGPRS850 (8PSK)	190	1	26.45	23.40	38.45	PASS
EGPRS850 (8PSK)	190	2	23.00	19.95	38.45	PASS
EGPRS850 (8PSK)	190	3	21.29	18.24	38.45	PASS
EGPRS850 (8PSK)	190	4	20.11	17.06	38.45	PASS
EGPRS850 (8PSK)	251	1	26.17	23.12	38.45	PASS
EGPRS850 (8PSK)	251	2	23.11	20.06	38.45	PASS
EGPRS850 (8PSK)	251	3	21.20	18.15	38.45	PASS
EGPRS850 (8PSK)	251	4	20.02	16.97	38.45	PASS



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Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.58	30.38	33.00	PASS
GSM1900	661	---	29.74	30.54	33.00	PASS
GSM1900	810	---	29.43	30.23	33.00	PASS
EGPRS1900 (GMSK)	512	1	29.49	30.29	33.00	PASS
EGPRS1900 (GMSK)	512	2	26.23	27.03	33.00	PASS
EGPRS1900 (GMSK)	512	3	24.87	25.67	33.00	PASS
EGPRS1900 (GMSK)	512	4	23.29	24.09	33.00	PASS
EGPRS1900 (GMSK)	661	1	29.42	30.22	33.00	PASS
EGPRS1900 (GMSK)	661	2	26.67	27.47	33.00	PASS
EGPRS1900 (GMSK)	661	3	24.78	25.58	33.00	PASS
EGPRS1900 (GMSK)	661	4	23.31	24.11	33.00	PASS
EGPRS1900 (GMSK)	810	1	29.09	29.89	33.00	PASS
EGPRS1900 (GMSK)	810	2	26.78	27.58	33.00	PASS
EGPRS1900 (GMSK)	810	3	24.87	25.67	33.00	PASS
EGPRS1900 (GMSK)	810	4	23.40	24.20	33.00	PASS
EGPRS1900 (8PSK)	512	1	25.47	26.27	33.00	PASS
EGPRS1900 (8PSK)	512	2	22.34	23.14	33.00	PASS
EGPRS1900 (8PSK)	512	3	20.51	21.31	33.00	PASS
EGPRS1900 (8PSK)	512	4	19.22	20.02	33.00	PASS
EGPRS1900 (8PSK)	661	1	25.42	26.22	33.00	PASS
EGPRS1900 (8PSK)	661	2	22.50	23.30	33.00	PASS
EGPRS1900 (8PSK)	661	3	20.48	21.28	33.00	PASS
EGPRS1900 (8PSK)	661	4	19.02	19.82	33.00	PASS
EGPRS1900 (8PSK)	810	1	25.21	26.01	33.00	PASS
EGPRS1900 (8PSK)	810	2	22.14	22.94	33.00	PASS
EGPRS1900 (8PSK)	810	3	20.50	21.30	33.00	PASS
EGPRS1900 (8PSK)	810	4	19.11	19.91	33.00	PASS



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**1.2. Test Result for Up Ant**

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	32.23	29.18	38.45	PASS
GSM850	190	---	32.56	29.51	38.45	PASS
GSM850	251	---	32.45	29.40	38.45	PASS
EGPRS850 (GMSK)	128	1	32.12	29.07	38.45	PASS
EGPRS850 (GMSK)	128	2	29.3	26.25	38.45	PASS
EGPRS850 (GMSK)	128	3	27.6	24.55	38.45	PASS
EGPRS850 (GMSK)	128	4	25.67	22.62	38.45	PASS
EGPRS850 (GMSK)	190	1	32.05	29.00	38.45	PASS
EGPRS850 (GMSK)	190	2	29.43	26.38	38.45	PASS
EGPRS850 (GMSK)	190	3	27.41	24.36	38.45	PASS
EGPRS850 (GMSK)	190	4	25.98	22.93	38.45	PASS
EGPRS850 (GMSK)	251	1	32.12	29.07	38.45	PASS
EGPRS850 (GMSK)	251	2	29.4	26.35	38.45	PASS
EGPRS850 (GMSK)	251	3	27.45	24.40	38.45	PASS
EGPRS850 (GMSK)	251	4	25.99	22.94	38.45	PASS
EGPRS850 (8PSK)	128	1	26.51	23.46	38.45	PASS
EGPRS850 (8PSK)	128	2	23.54	20.49	38.45	PASS
EGPRS850 (8PSK)	128	3	21.67	18.62	38.45	PASS
EGPRS850 (8PSK)	128	4	20.45	17.40	38.45	PASS
EGPRS850 (8PSK)	190	1	26.45	23.40	38.45	PASS
EGPRS850 (8PSK)	190	2	23.51	20.46	38.45	PASS
EGPRS850 (8PSK)	190	3	21.9	18.85	38.45	PASS
EGPRS850 (8PSK)	190	4	20.55	17.50	38.45	PASS
EGPRS850 (8PSK)	251	1	26.88	23.83	38.45	PASS
EGPRS850 (8PSK)	251	2	23.44	20.39	38.45	PASS
EGPRS850 (8PSK)	251	3	21.45	18.40	38.45	PASS
EGPRS850 (8PSK)	251	4	20.34	17.29	38.45	PASS



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Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.09	29.89	33.00	PASS
GSM1900	661	---	29.27	30.07	33.00	PASS
GSM1900	810	---	29.22	30.02	33.00	PASS
EGPRS1900 (GMSK)	512	1	29.21	30.01	33.00	PASS
EGPRS1900 (GMSK)	512	2	26.96	27.76	33.00	PASS
EGPRS1900 (GMSK)	512	3	25.41	26.21	33.00	PASS
EGPRS1900 (GMSK)	512	4	23.64	24.44	33.00	PASS
EGPRS1900 (GMSK)	661	1	29.26	30.06	33.00	PASS
EGPRS1900 (GMSK)	661	2	27.08	27.88	33.00	PASS
EGPRS1900 (GMSK)	661	3	25.31	26.11	33.00	PASS
EGPRS1900 (GMSK)	661	4	23.41	24.21	33.00	PASS
EGPRS1900 (GMSK)	810	1	29.11	29.91	33.00	PASS
EGPRS1900 (GMSK)	810	2	27.19	27.99	33.00	PASS
EGPRS1900 (GMSK)	810	3	25.29	26.09	33.00	PASS
EGPRS1900 (GMSK)	810	4	23.64	24.44	33.00	PASS
EGPRS1900 (8PSK)	512	1	25.19	25.99	33.00	PASS
EGPRS1900 (8PSK)	512	2	22.60	23.40	33.00	PASS
EGPRS1900 (8PSK)	512	3	20.61	21.41	33.00	PASS
EGPRS1900 (8PSK)	512	4	19.41	20.21	33.00	PASS
EGPRS1900 (8PSK)	661	1	25.02	25.82	33.00	PASS
EGPRS1900 (8PSK)	661	2	22.39	23.19	33.00	PASS
EGPRS1900 (8PSK)	661	3	20.70	21.50	33.00	PASS
EGPRS1900 (8PSK)	661	4	19.43	20.23	33.00	PASS
EGPRS1900 (8PSK)	810	1	25.15	25.95	33.00	PASS
EGPRS1900 (8PSK)	810	2	22.61	23.41	33.00	PASS
EGPRS1900 (8PSK)	810	3	20.60	21.40	33.00	PASS
EGPRS1900 (8PSK)	810	4	19.50	20.30	33.00	PASS

Remark:

a: For getting the EIRP (Efficient Isotropic Radiated Power), the following formula should be taken to calculate it,

$$ERP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBd]}$$

$$EIRP [dBm] = \text{Conducted Power [dBm]} + \text{Gain [dBi]}$$



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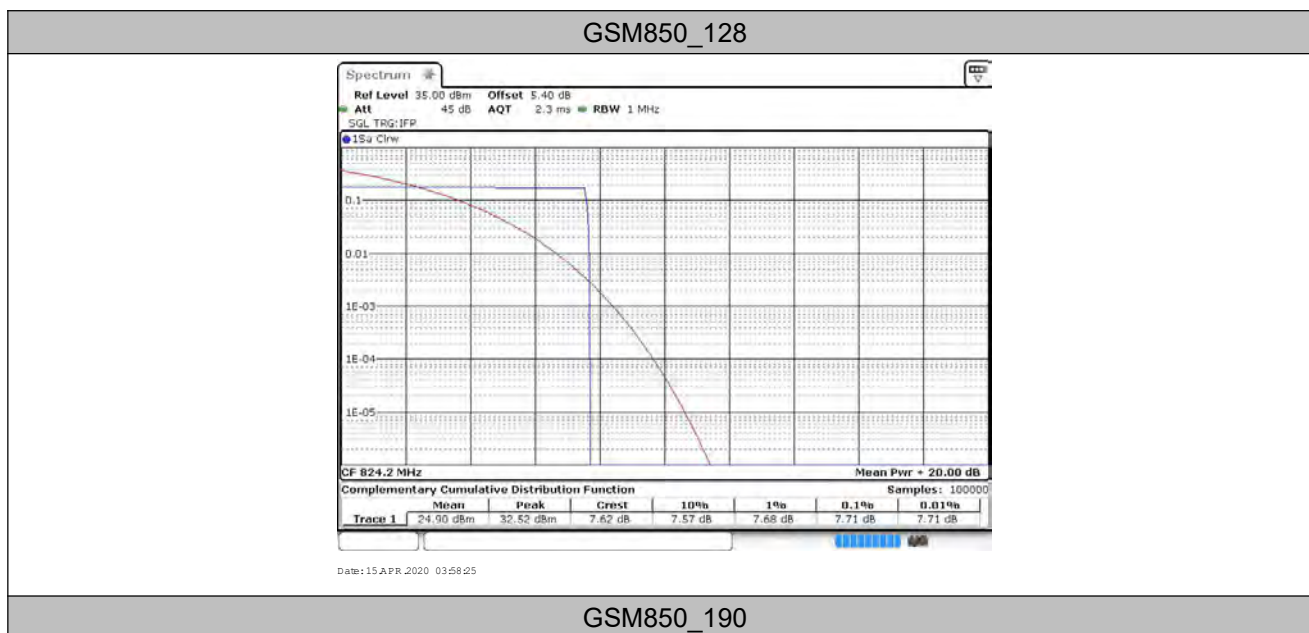


## 2. Peak-to-Average Ratio

### 2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	7.71	13.00	PASS
GSM850	190	7.65	13.00	PASS
GSM850	251	7.74	13.00	PASS
EGPRS850	128	10.55	13.00	PASS
EGPRS850	190	10.64	13.00	PASS
EGPRS850	251	10.72	13.00	PASS
GSM1900	512	7.68	13.00	PASS
GSM1900	661	7.68	13.00	PASS
GSM1900	810	7.68	13.00	PASS
EGPRS1900	512	10.35	13.00	PASS
EGPRS1900	661	10.12	13.00	PASS
EGPRS1900	810	10.00	13.00	PASS

### 2.2. Part II - Test Plots

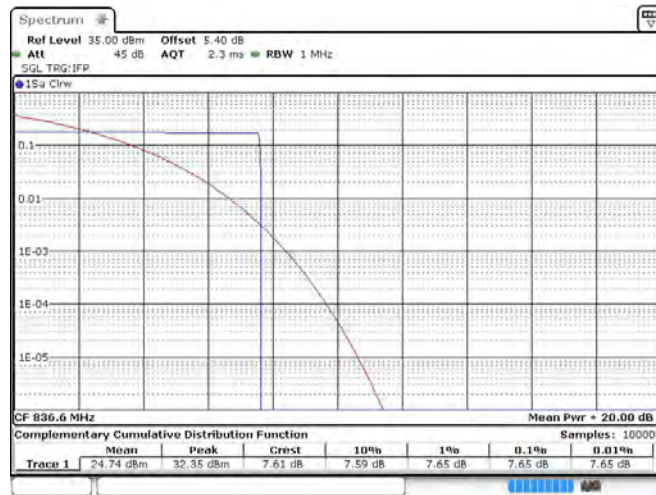


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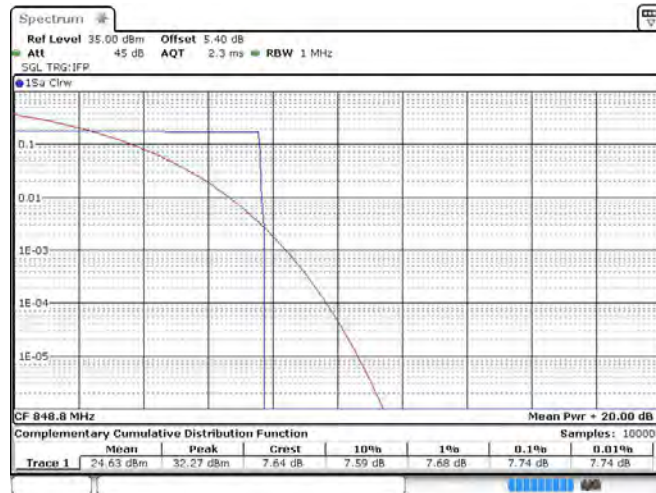
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Date: 15 APR 2020 03:58:53

**GSM850\_251**



Date: 15 APR 2020 03:59:20

**EGPRS850\_128**

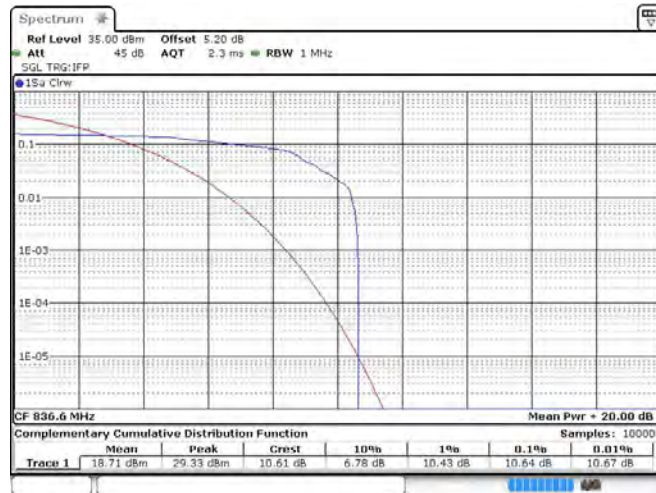


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Date: 15.APR.2020 03:24:12

**EGPRS850\_190**

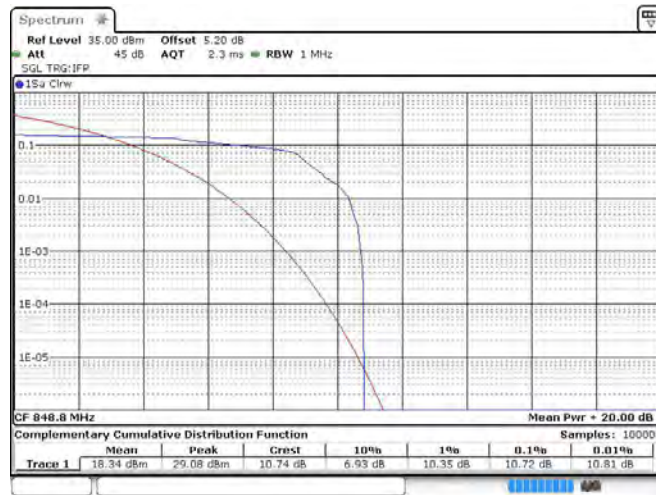


Date: 15.APR.2020 03:24:39

**EGPRS850\_251**

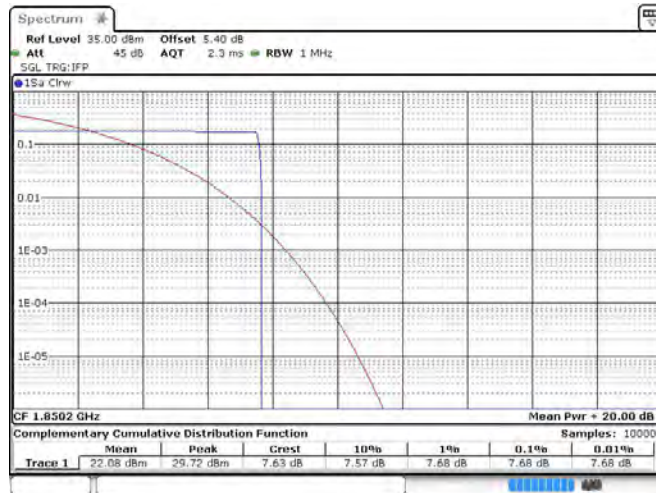


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Date: 15.APR.2020 03:25:07

**GSM1900\_512**

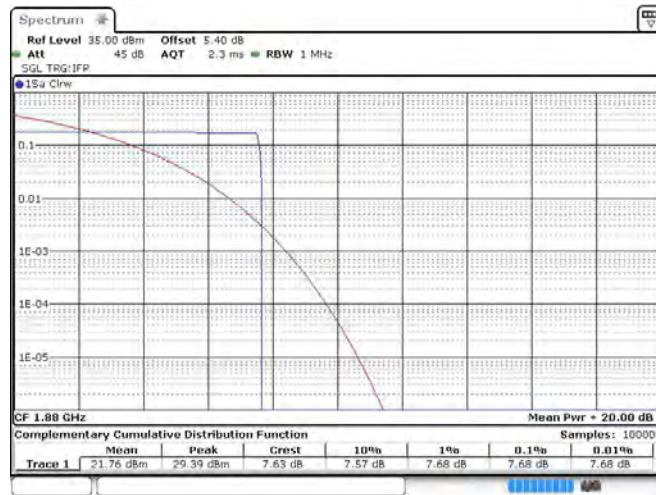


Date: 15.APR.2020 03:49:06

**GSM1900\_661**

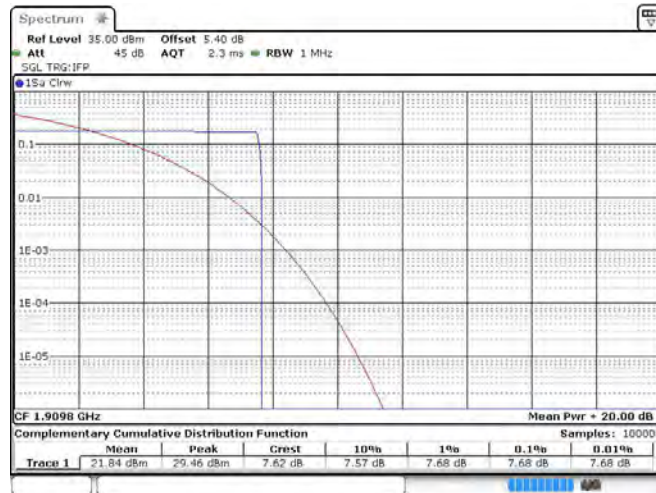


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Date: 15 APR 2020 03:49:33

**GSM1900\_810**

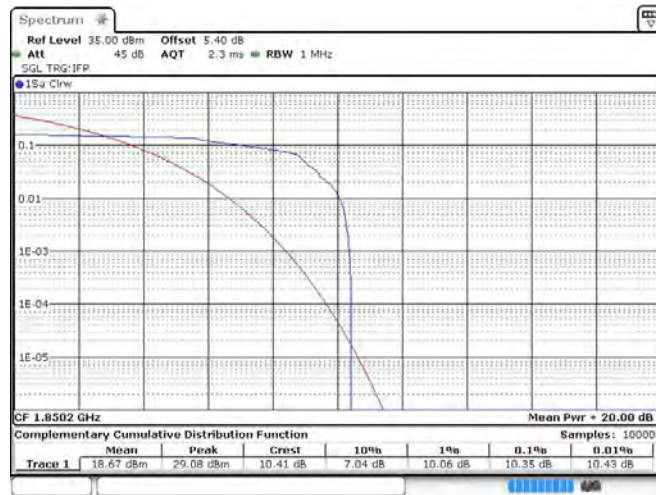


Date: 15 APR 2020 03:50:00

**EGPRS1900\_512**

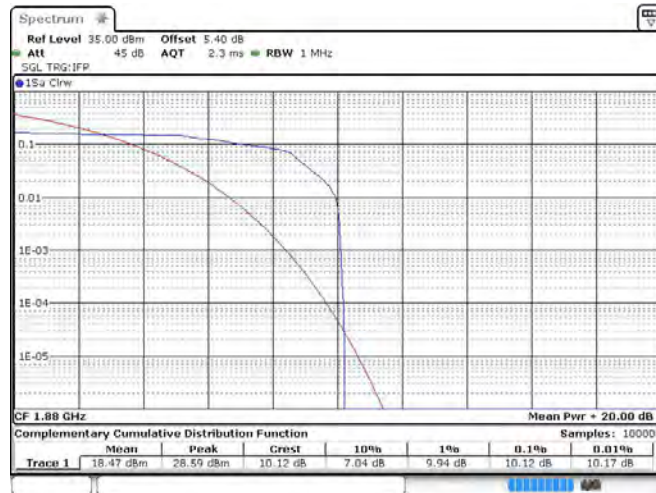


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Date: 15 APR 2020 03:19:13

**EGPRS1900\_661**

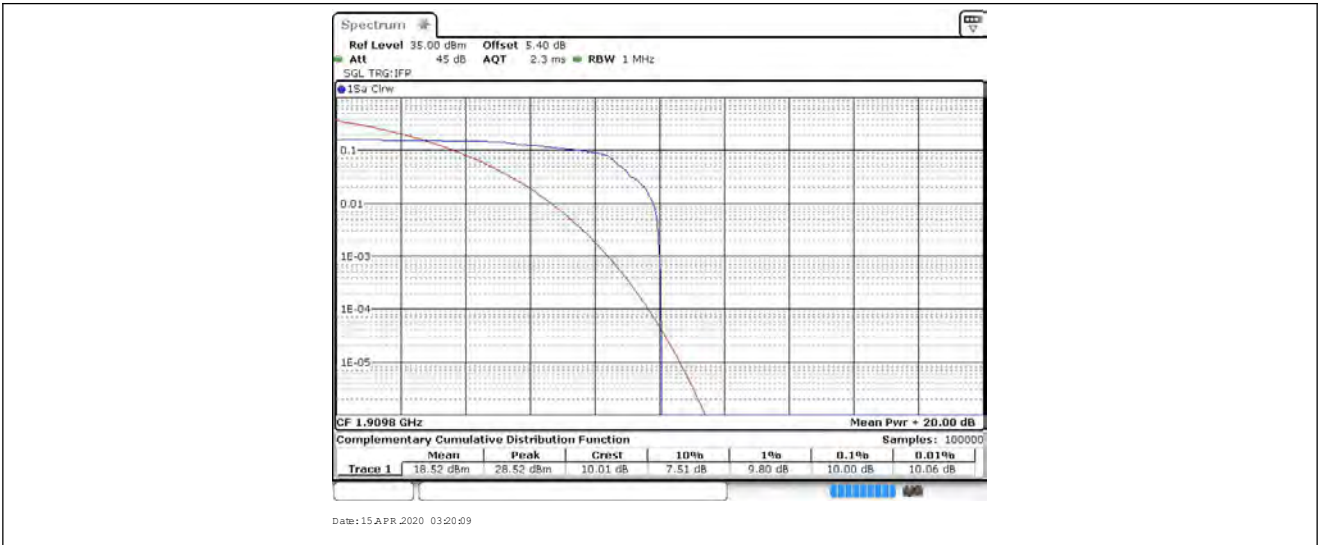


Date: 15 APR 2020 03:19:41

**EGPRS1900\_810**



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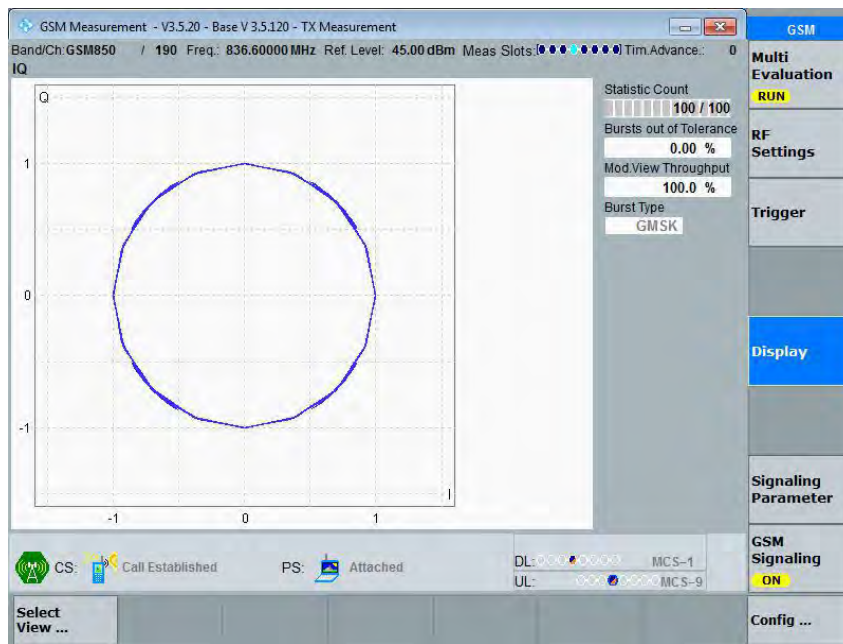
### 3. Modulation Characteristics

#### 3.1. For GSM

##### 3.1.1. Test Band = GSM 850

##### 3.1.1.1. Test Mode = GSM/TM1

##### 3.1.1.1.1. Test Channel = MCH

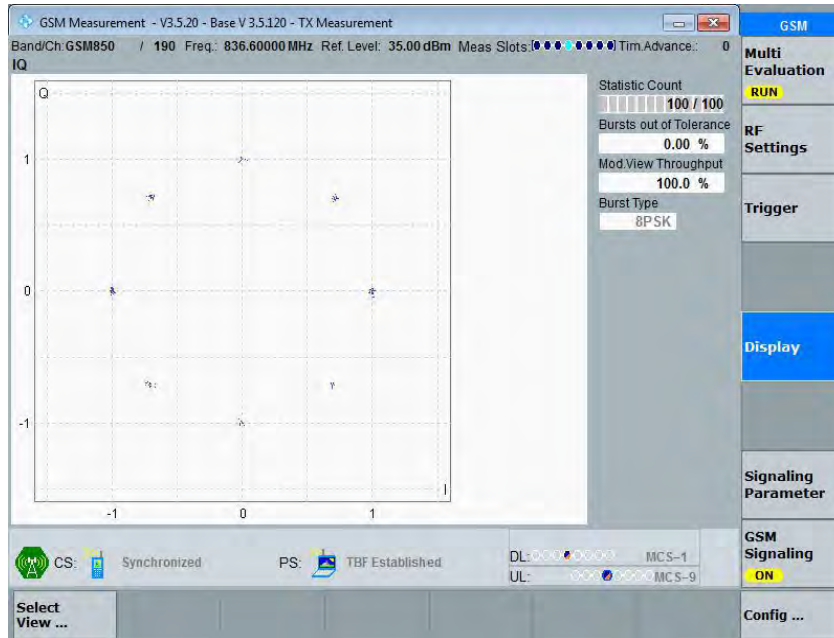


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**3.1.1.2. Test Mode = GSM/TM2**

**3.1.1.2.1. Test Channel = MCH**



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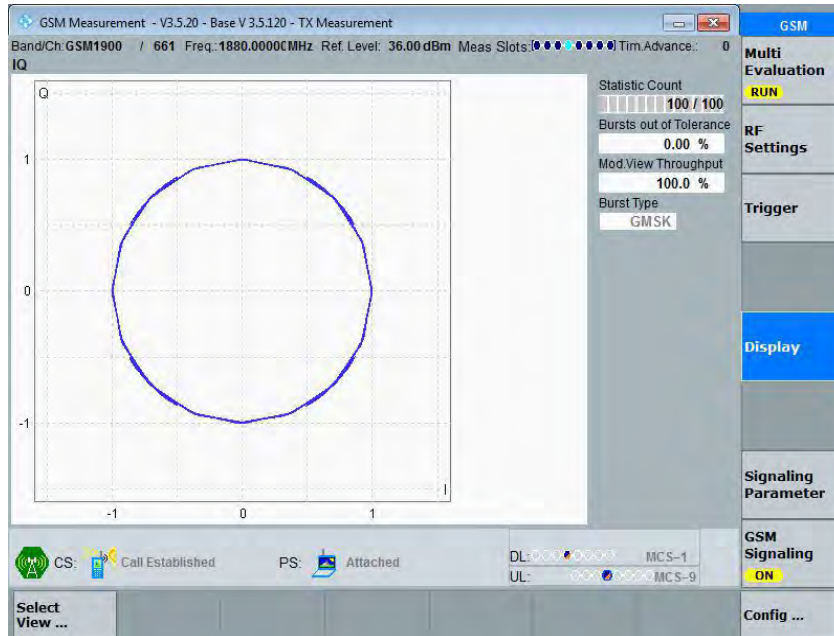




**3.1.2. Test Band = GSM 1900**

**3.1.2.1. Test Mode = GSM/TM1**

**3.1.2.1.1. Test Channel = MCH**



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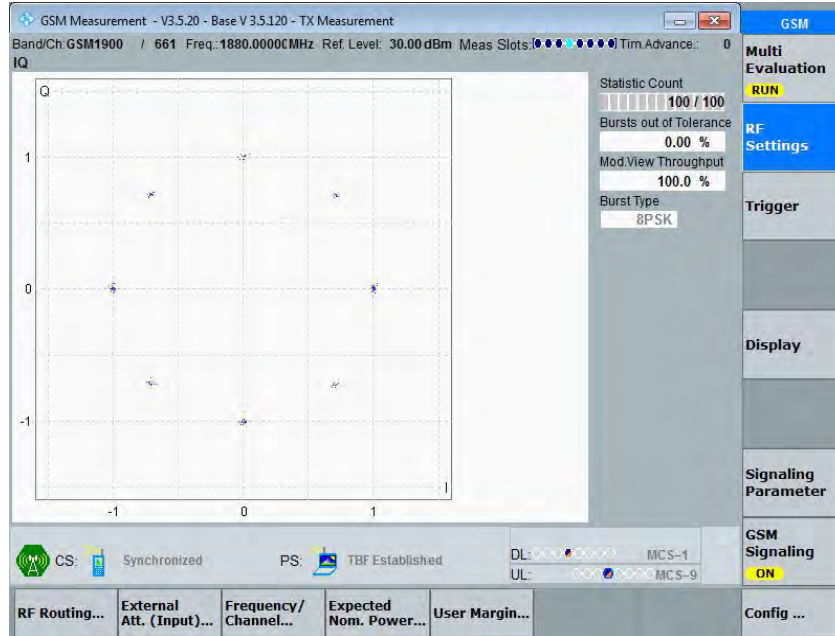
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**3.1.2.2. Test Mode = GSM/TM2**

**3.1.2.2.1. Test Channel = MCH**



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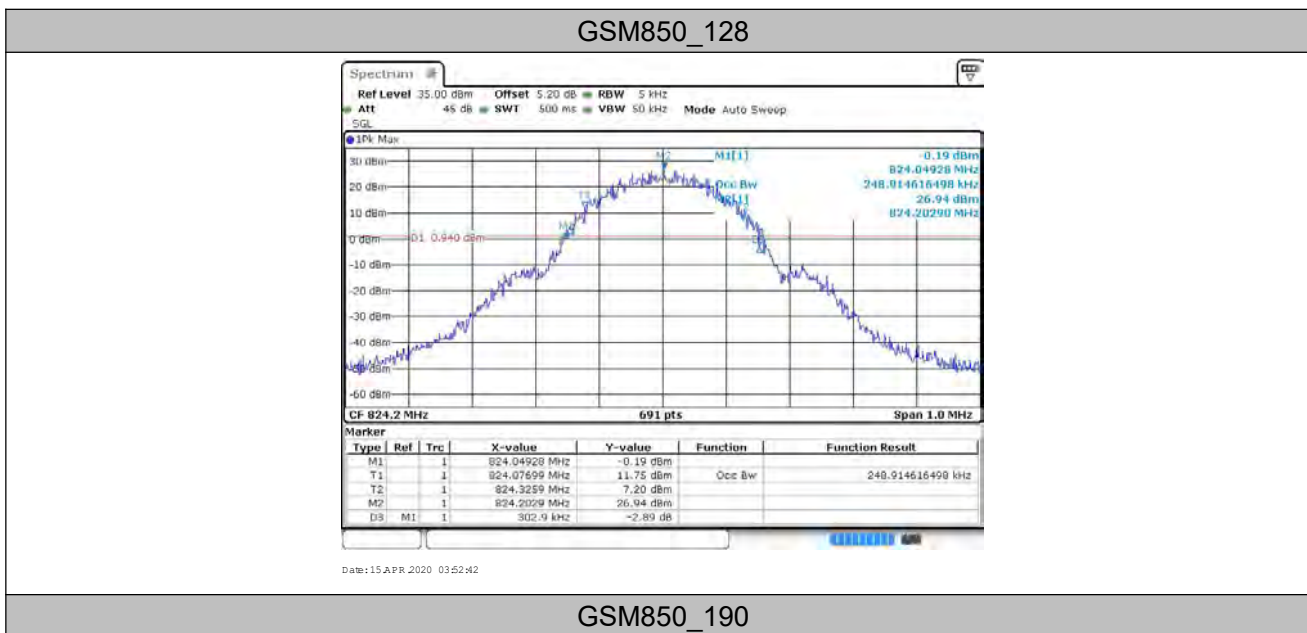


## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	248.91	302.90	---	PASS
GSM850	190	246.02	314.49	---	PASS
GSM850	251	246.02	301.45	---	PASS
EGPRS850	128	246.02	301.45	---	PASS
EGPRS850	190	250.36	305.80	---	PASS
EGPRS850	251	244.57	301.45	---	PASS
GSM1900	512	243.13	305.80	---	PASS
GSM1900	661	247.47	314.49	---	PASS
GSM1900	810	247.47	298.55	---	PASS
EGPRS1900	512	251.81	318.84	---	PASS
EGPRS1900	661	254.70	302.90	---	PASS
EGPRS1900	810	248.91	311.59	---	PASS

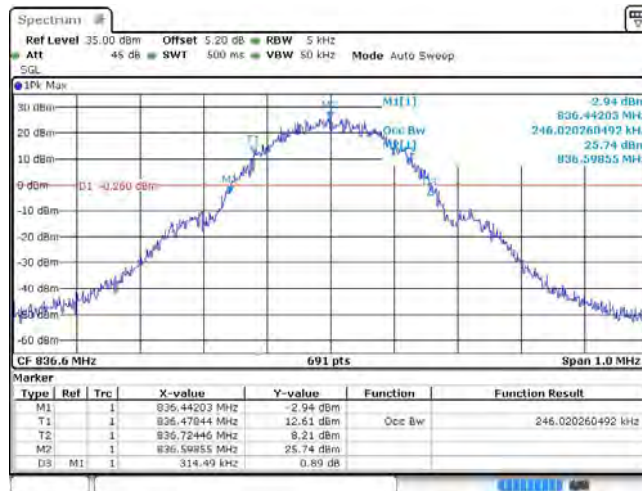
### 4.2. Test Plots



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Date: 15 APR 2020 03:53:07

**GSM850\_251**



Date: 15 APR 2020 03:53:33

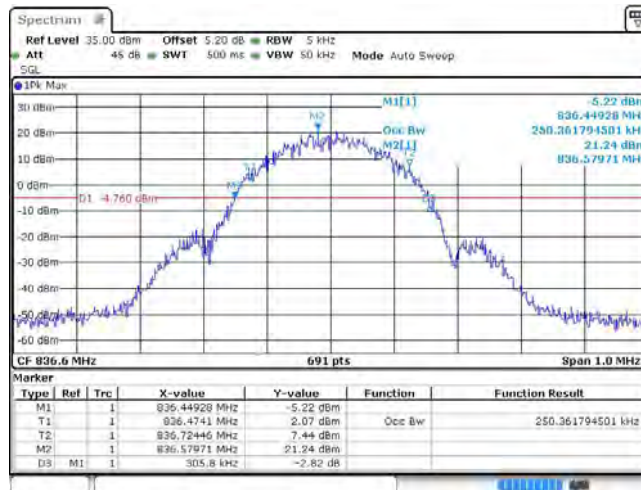
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EGPRS850\_190

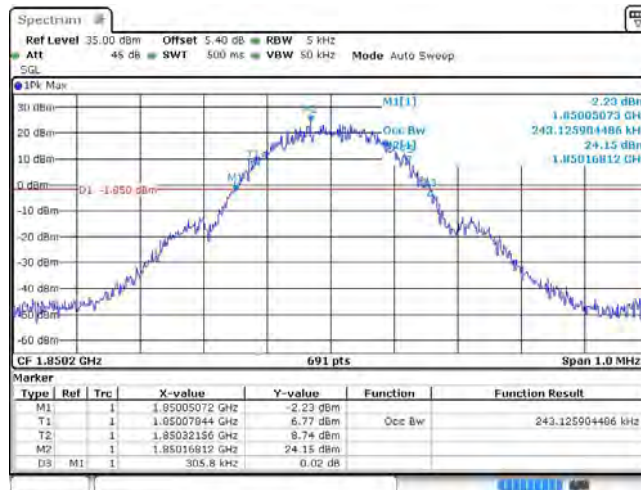


EGPRS850\_251





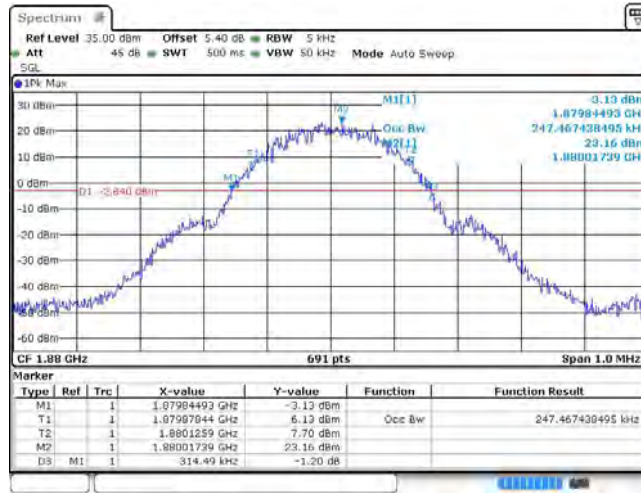
GSM1900\_512



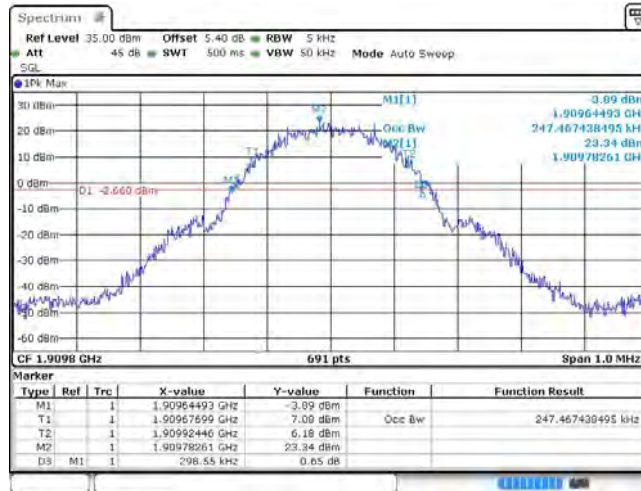
GSM1900\_661



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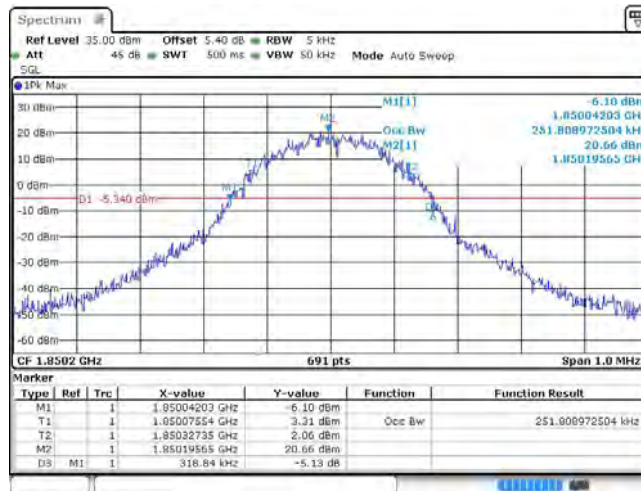
GSM1900\_810



EGPRS1900\_512

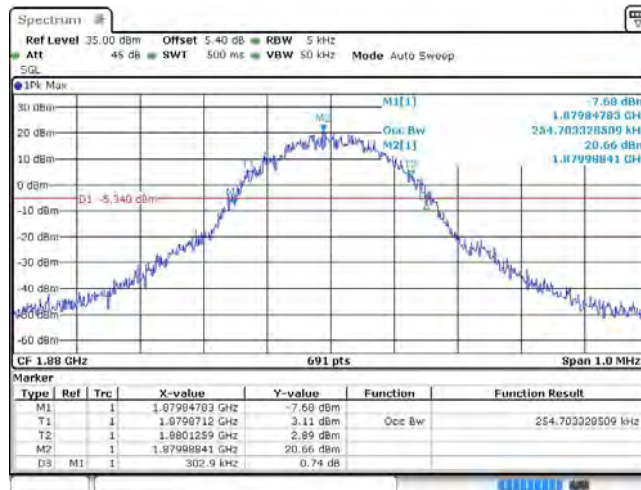


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**EGPRS1900\_661**



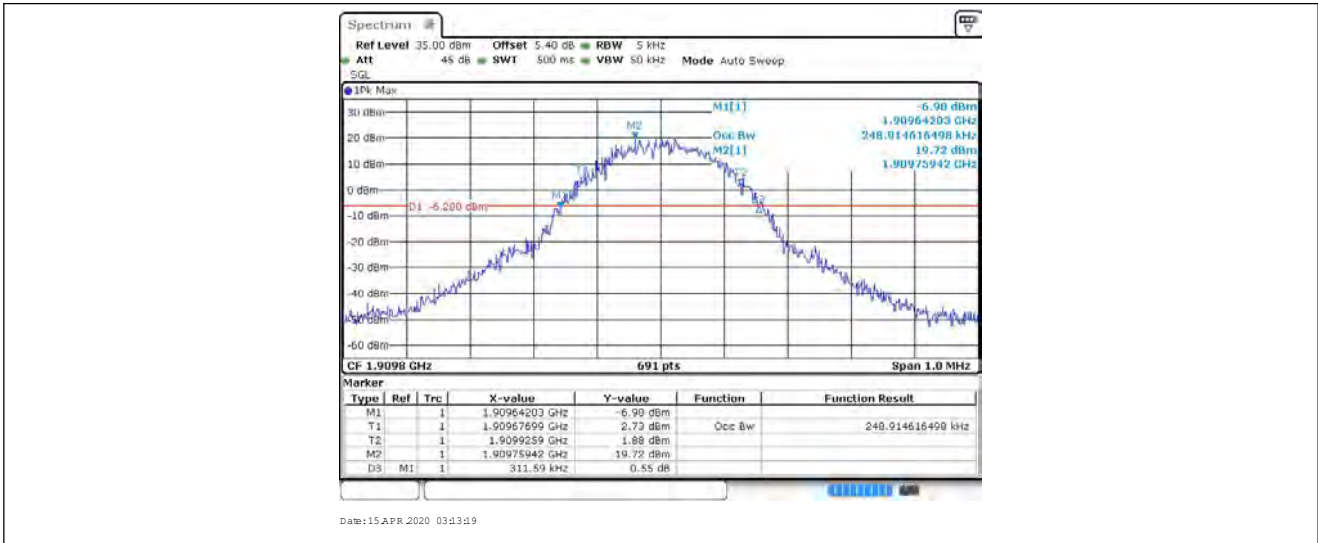
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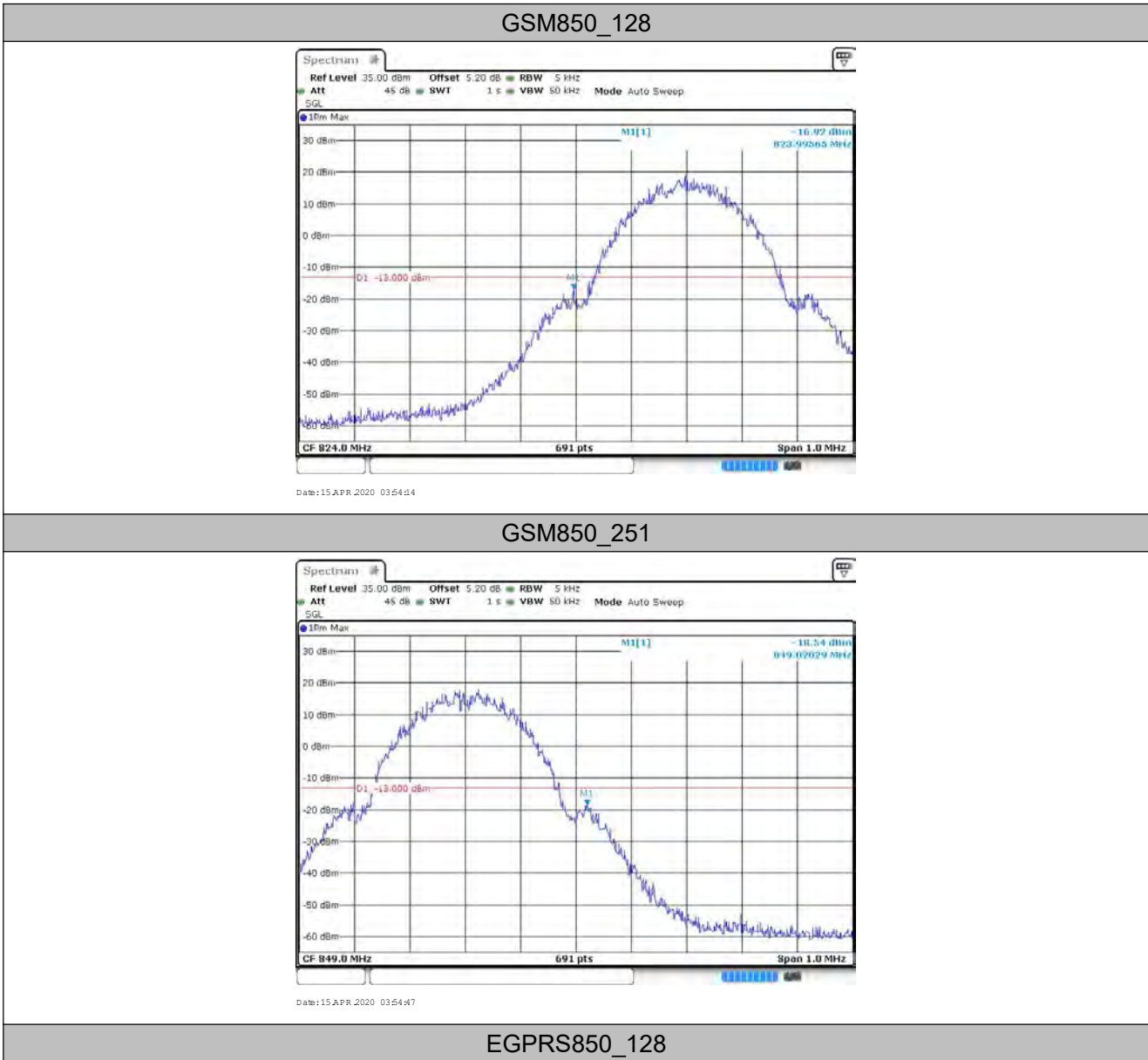


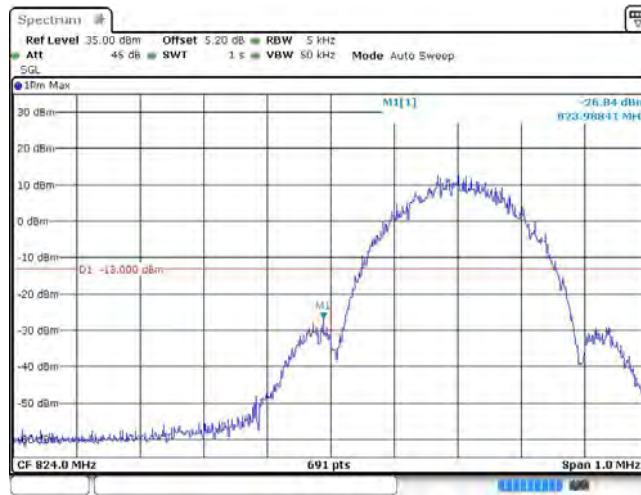
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## 5. Band Edge Compliance

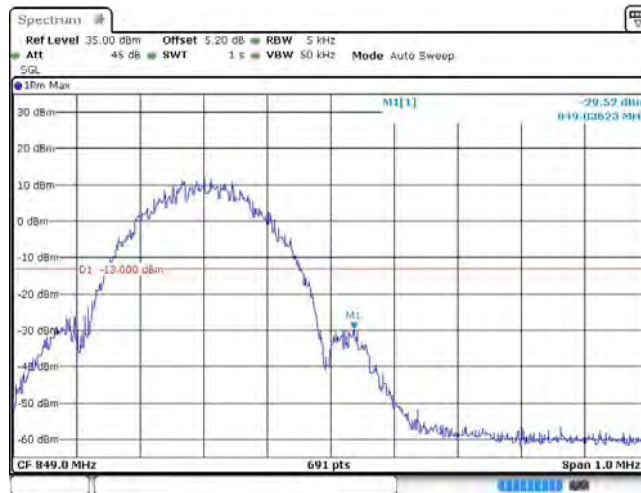
### 5.1. Test Plots





Date: 15 APR 2020 03:27:19

EGPRS850\_251

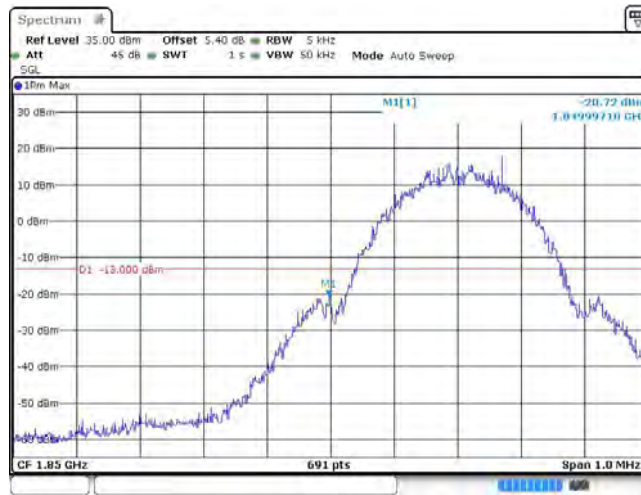


Date: 15 APR 2020 03:27:53

GSM1900\_512

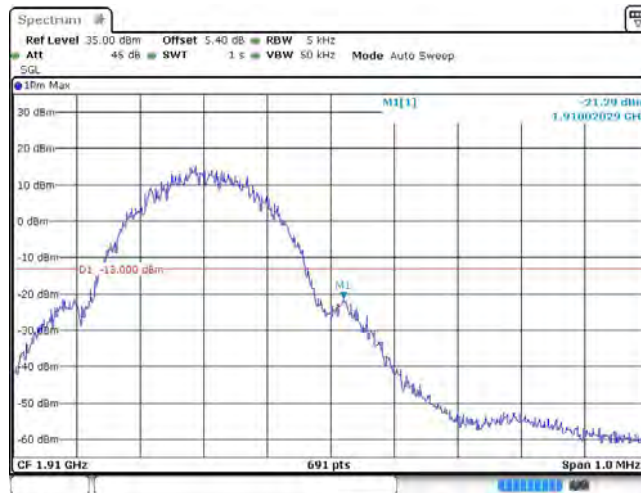


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Date: 15 APR 2020 03:43:39

**GSM1900\_810**

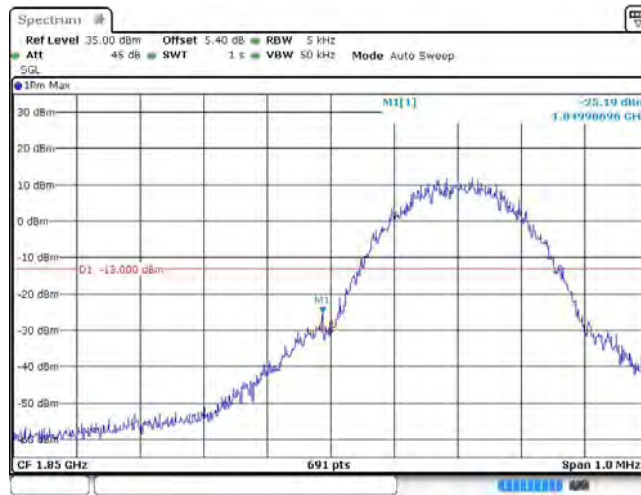


Date: 15 APR 2020 03:44:13

**EGPRS1900\_512**

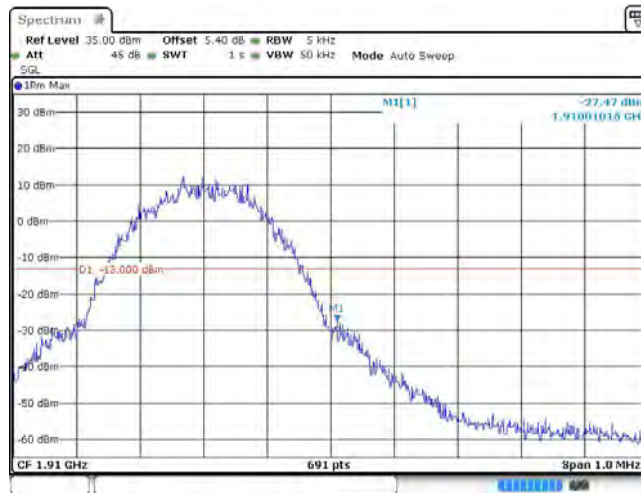


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Date: 15 APR 2020 03:14:00

**EGPRS1900\_810**



Date: 15 APR 2020 03:14:04



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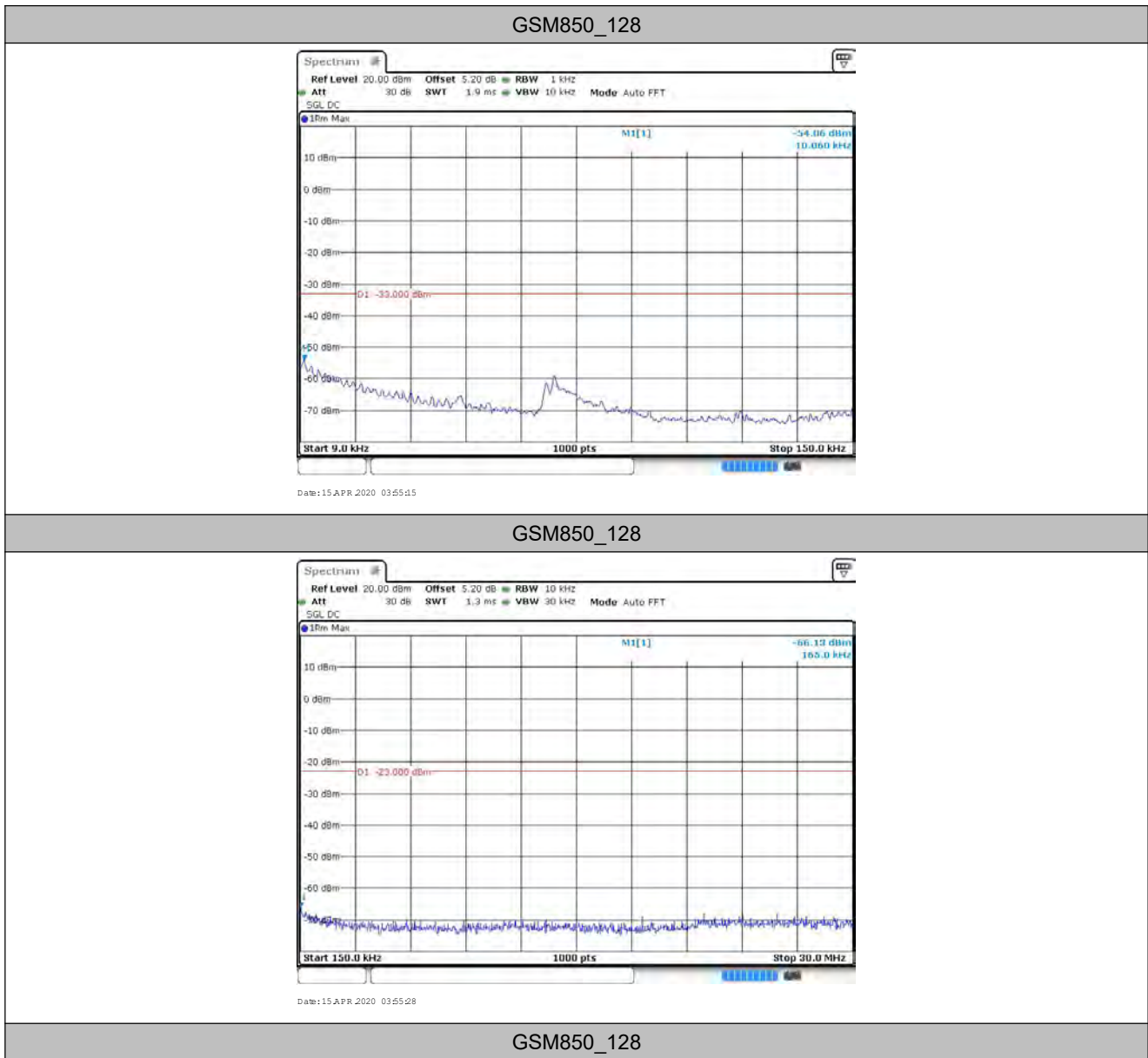


## 6. Spurious Emission at Antenna Terminal

Remark1: For the averaged unwanted emissions measurements, the measurement points in each sweep is greater than twice the Span/RBW in order to ensure bin-to-bin spacing of  $< RBW/2$  so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points =  $k * (Span / RBW)$ " with  $k$  between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots

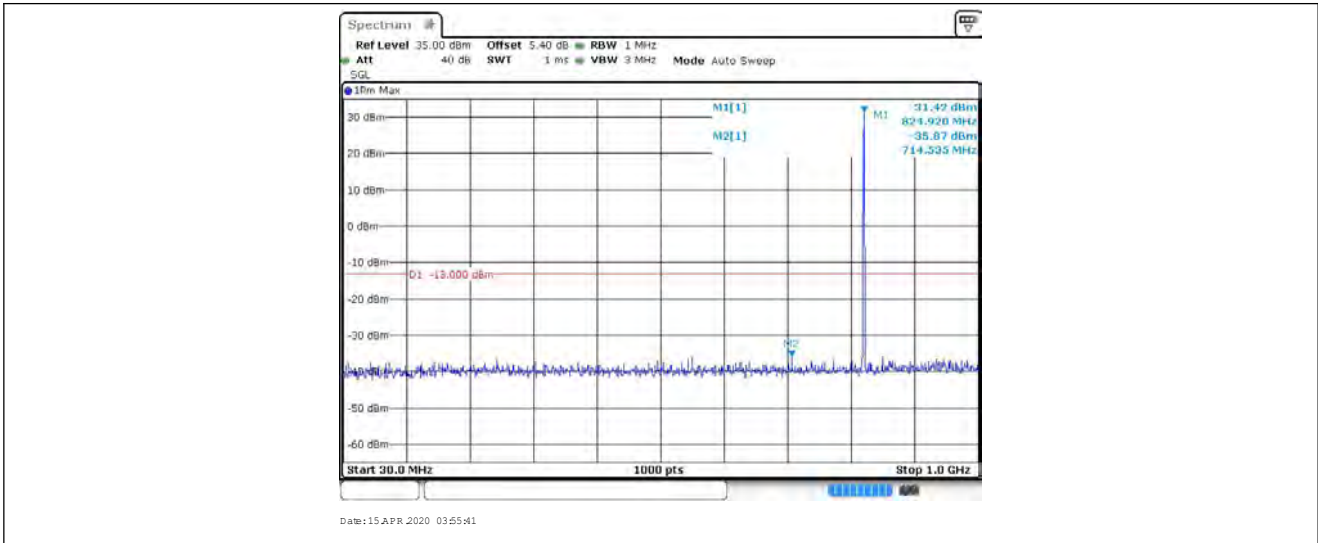


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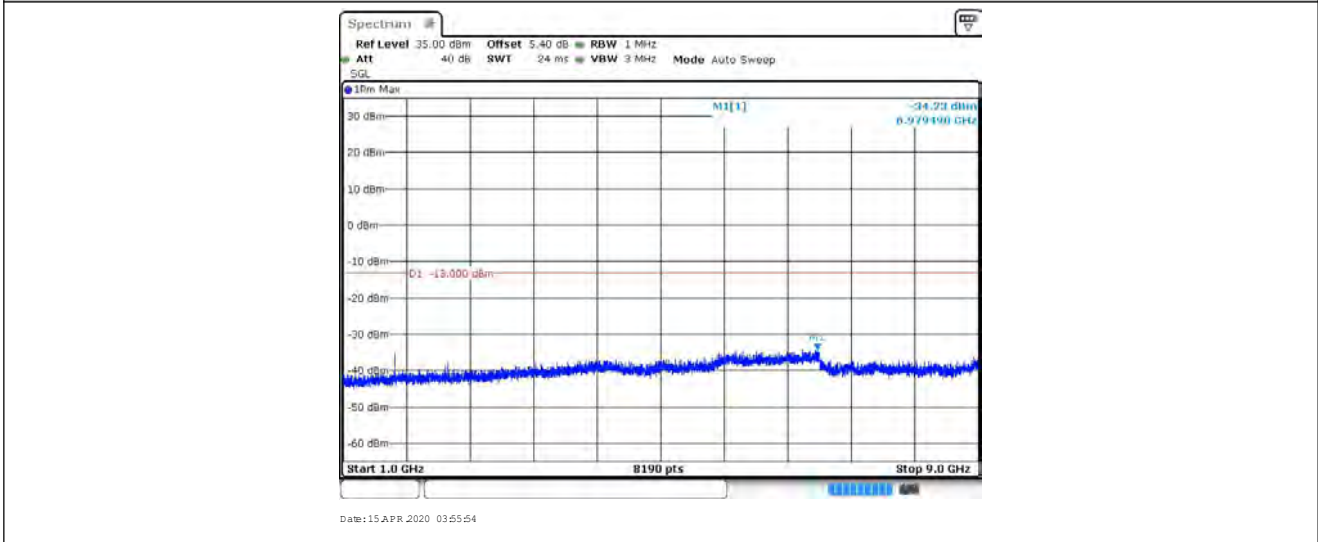
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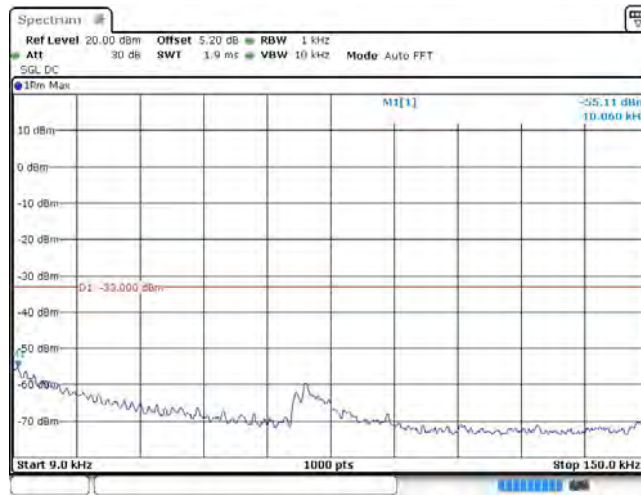
GSM850\_128



GSM850\_190

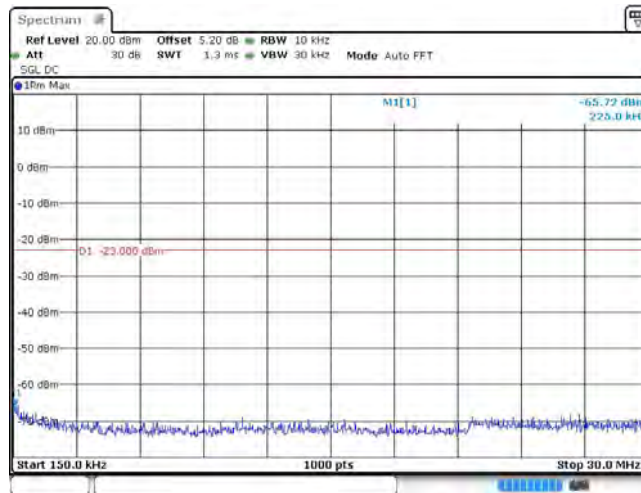


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Date: 15 APR 2020 03:56:13

GSM850\_190



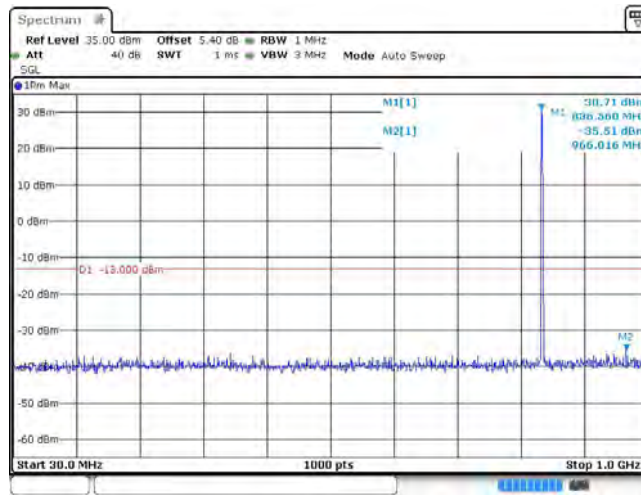
Date: 15 APR 2020 03:56:25

GSM850\_190



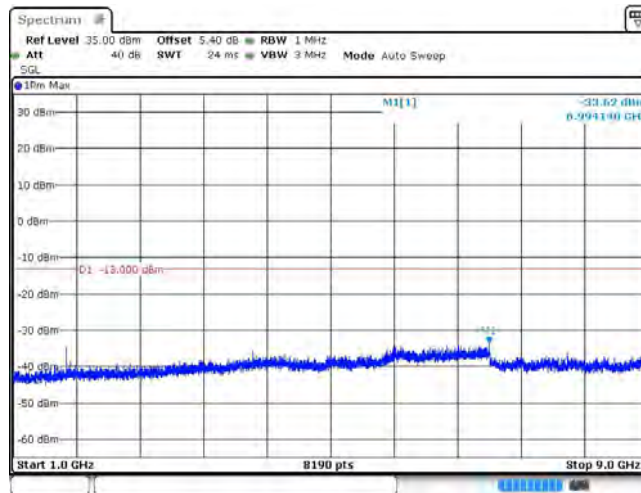
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Date: 15 APR 2020 03:56:39

GSM850\_190

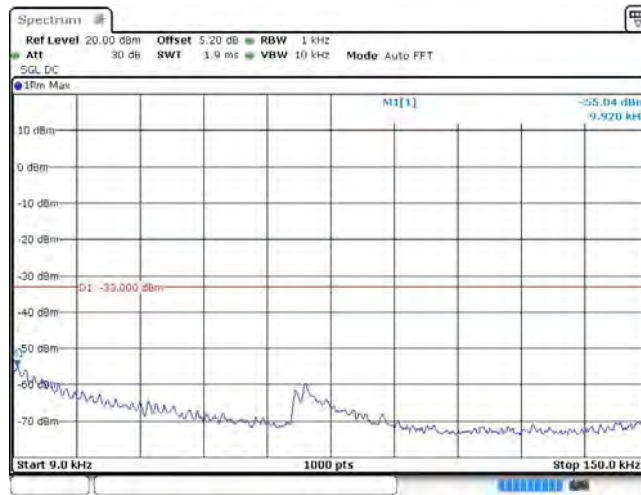


Date: 15 APR 2020 03:56:51

GSM850\_251

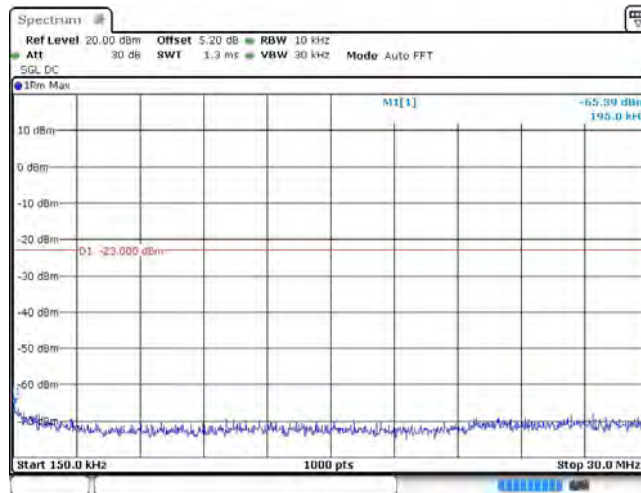


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Date: 15 APR 2020 03:57:11

GSM850\_251



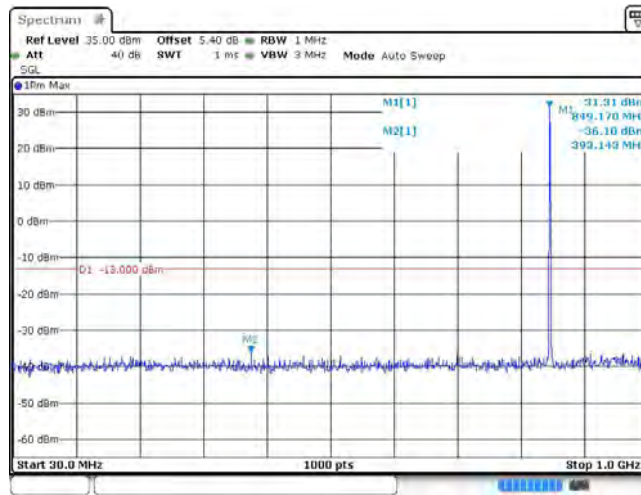
Date: 15 APR 2020 03:57:23

GSM850\_251



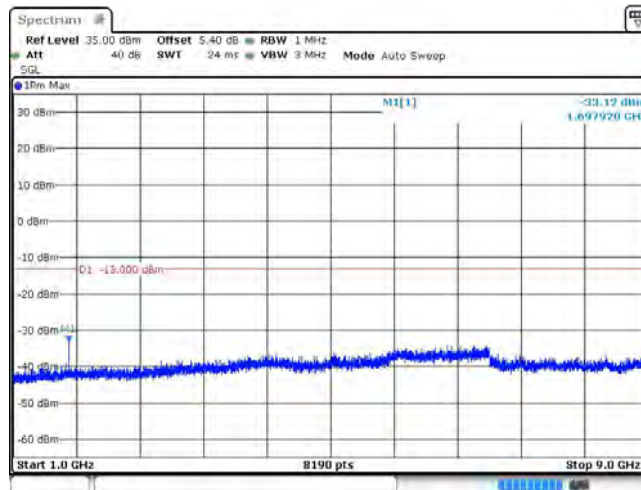
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Date: 15 APR 2020 03:57:37

GSM850\_251

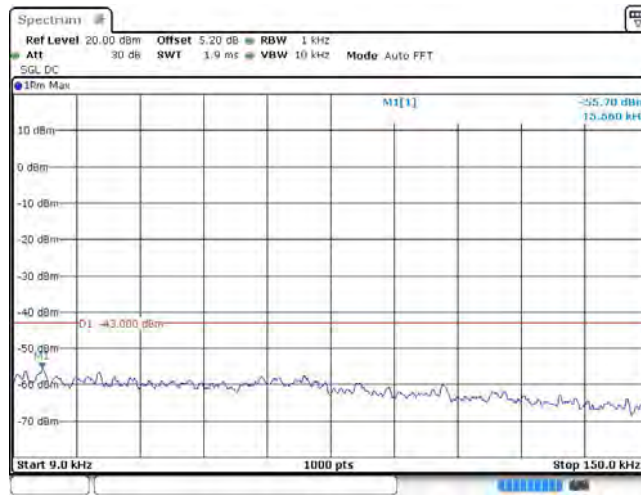


Date: 15 APR 2020 03:57:49

EGPRS850\_128

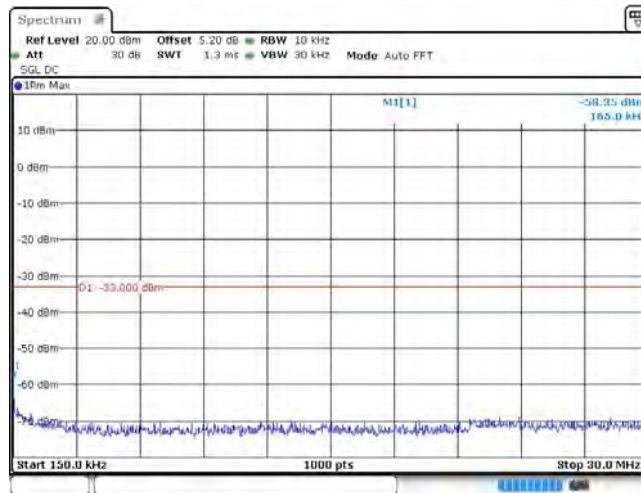


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Date: 15 APR 2020 03:28:21

EGPRS850\_128

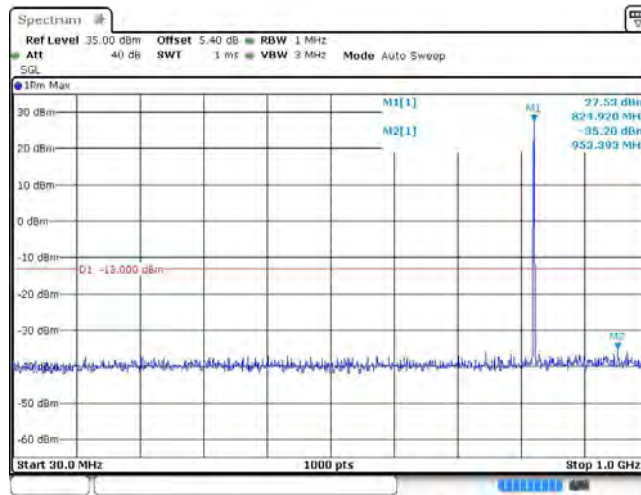


Date: 15 APR 2020 03:28:33

EGPRS850\_128

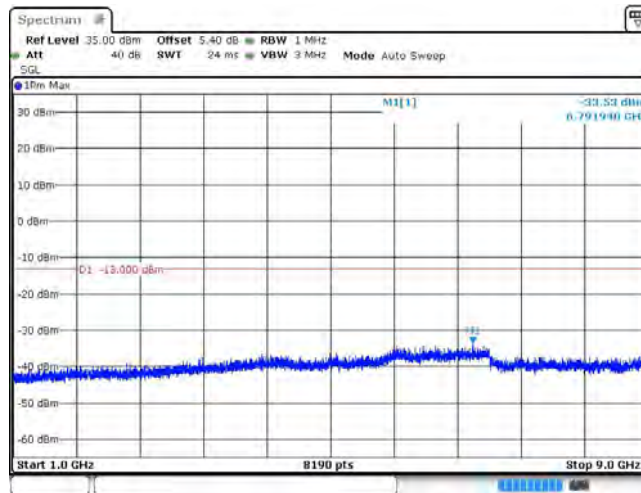


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Date: 15 APR 2020 03:28:47

EGPRS850\_128

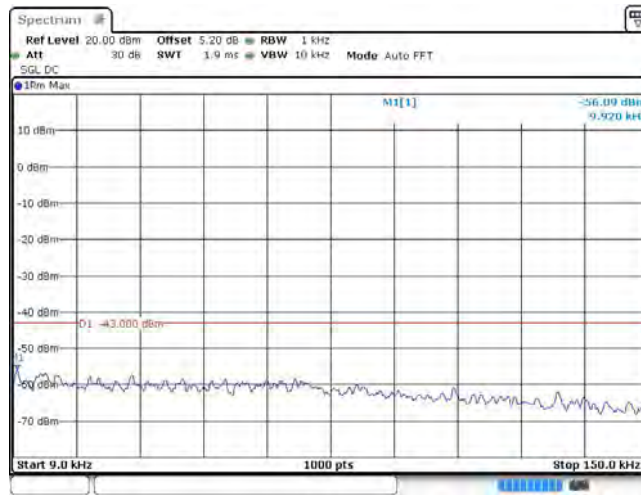


Date: 15 APR 2020 03:29:05

EGPRS850\_190

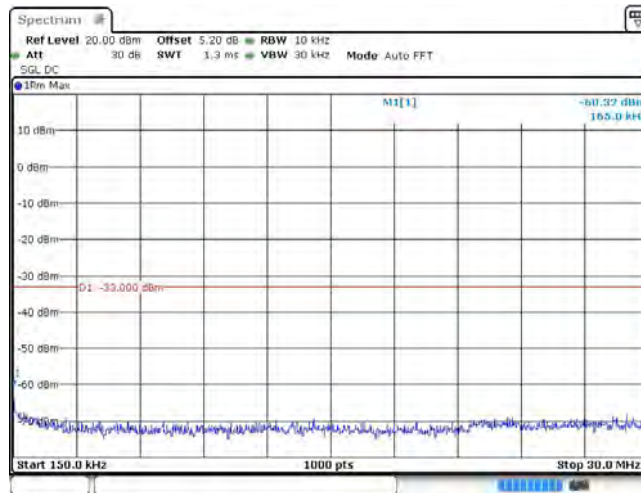


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Date: 15 APR 2020 03:29:23

EGPRS850\_190

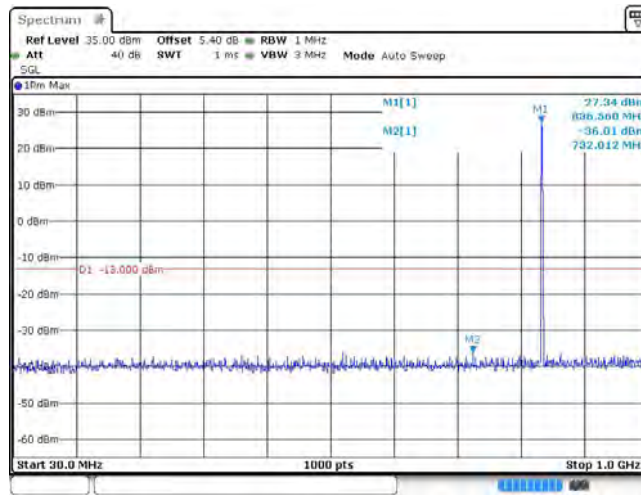


Date: 15 APR 2020 03:29:25

EGPRS850\_190

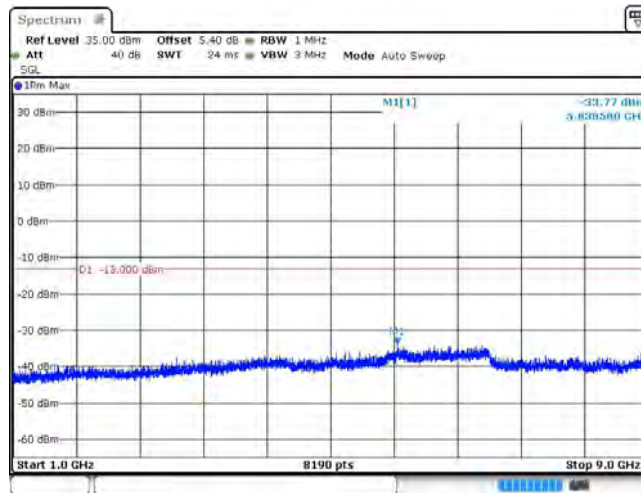


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Date: 15 APR 2020 03:29:49

EGPRS850\_190

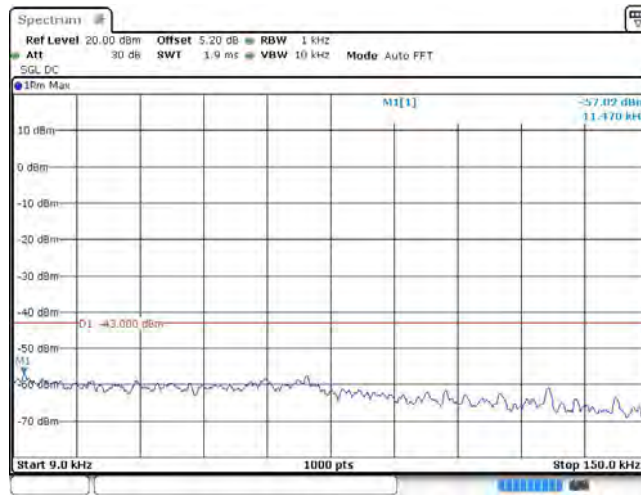


Date: 15 APR 2020 03:00:02

EGPRS850\_251

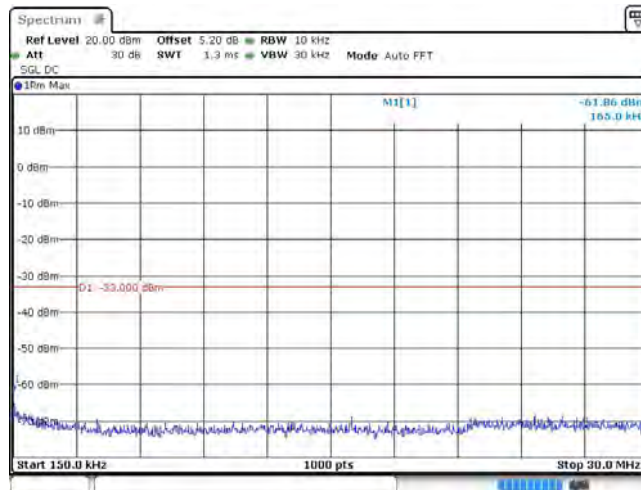


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Date: 15 APR 2020 03:00:23

EGPRS850\_251



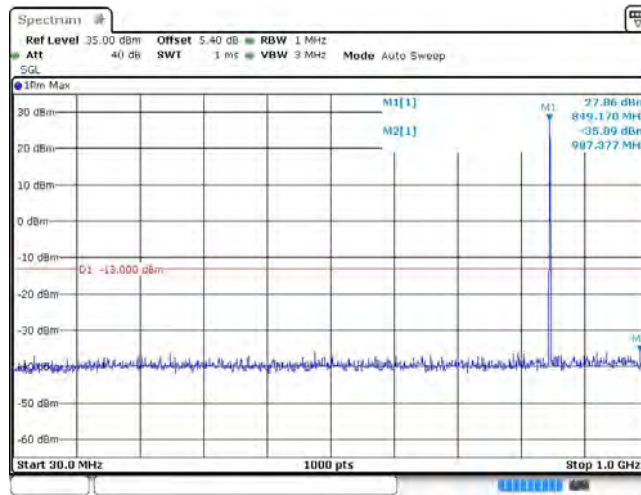
Date: 15 APR 2020 03:00:25

EGPRS850\_251



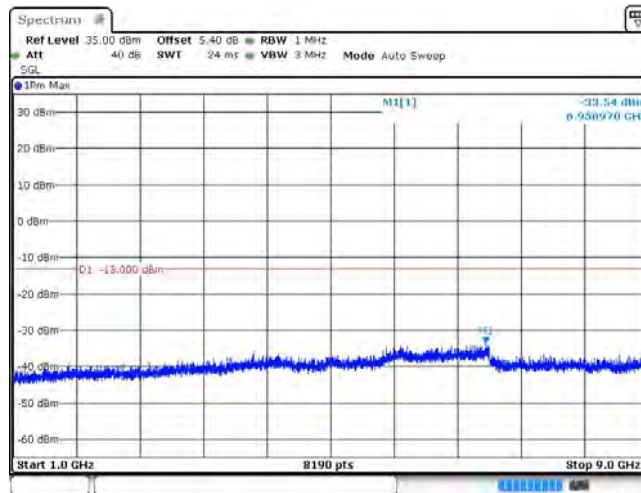
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Date: 15 APR 2020 03:50:48

EGPRS850\_251

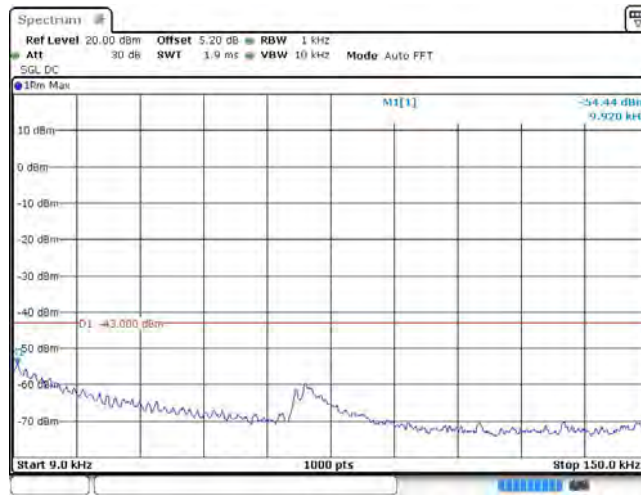


Date: 15 APR 2020 03:51:00

GSM1900\_512

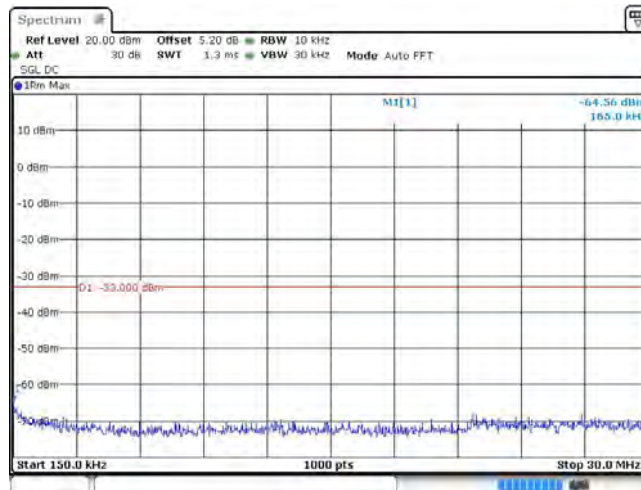


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Date: 15 APR 2020 03:44:41

GSM1900\_512



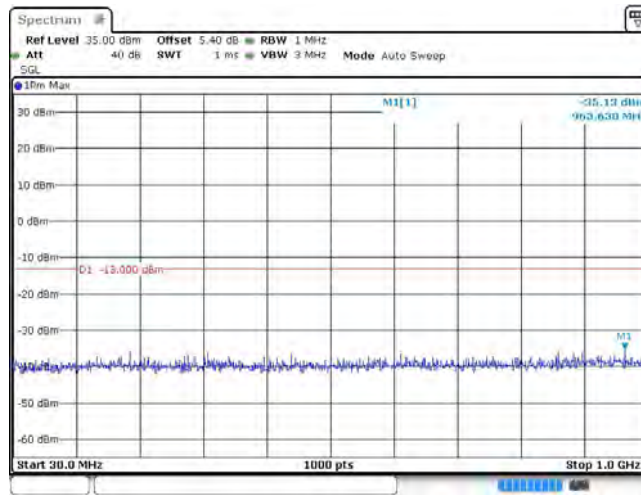
Date: 15 APR 2020 03:44:53

GSM1900\_512



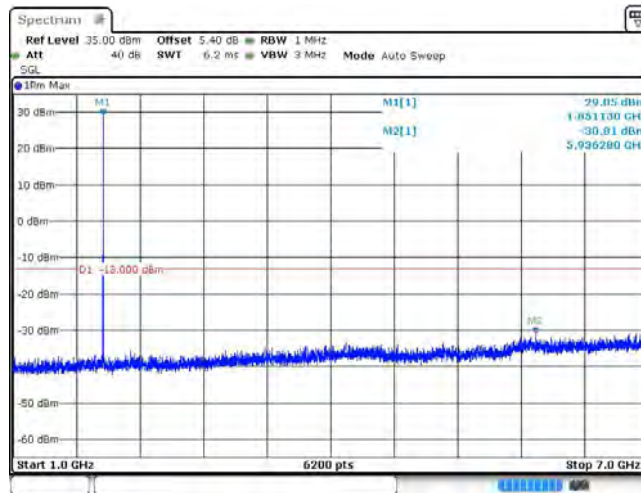
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Date: 15 APR 2020 03:45:06

GSM1900\_512

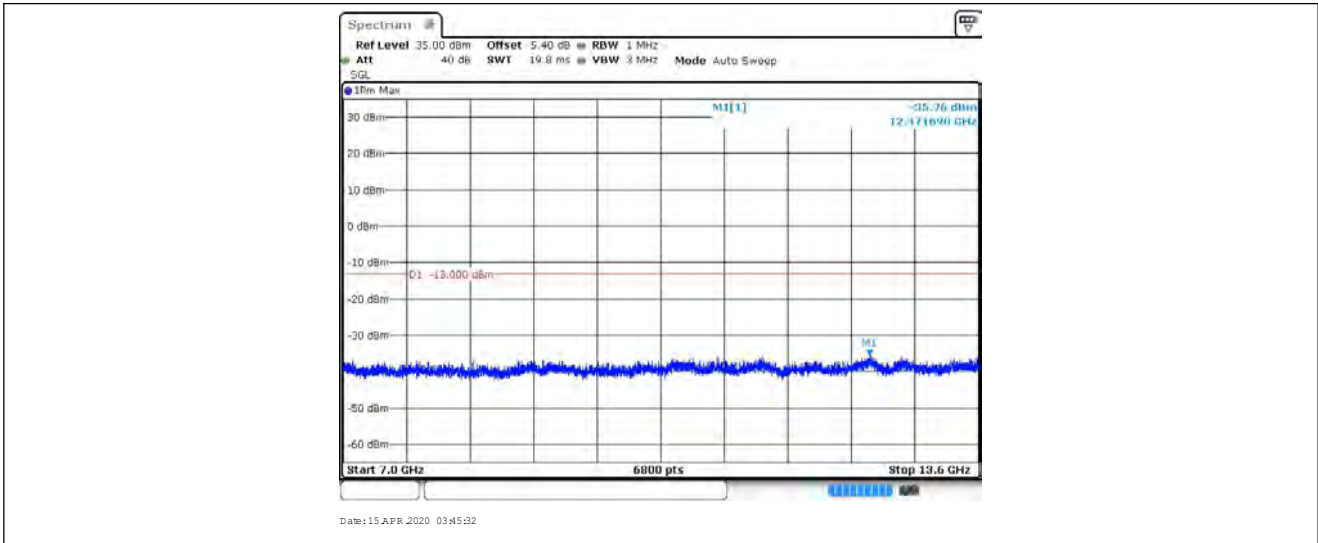


Date: 15 APR 2020 03:45:19

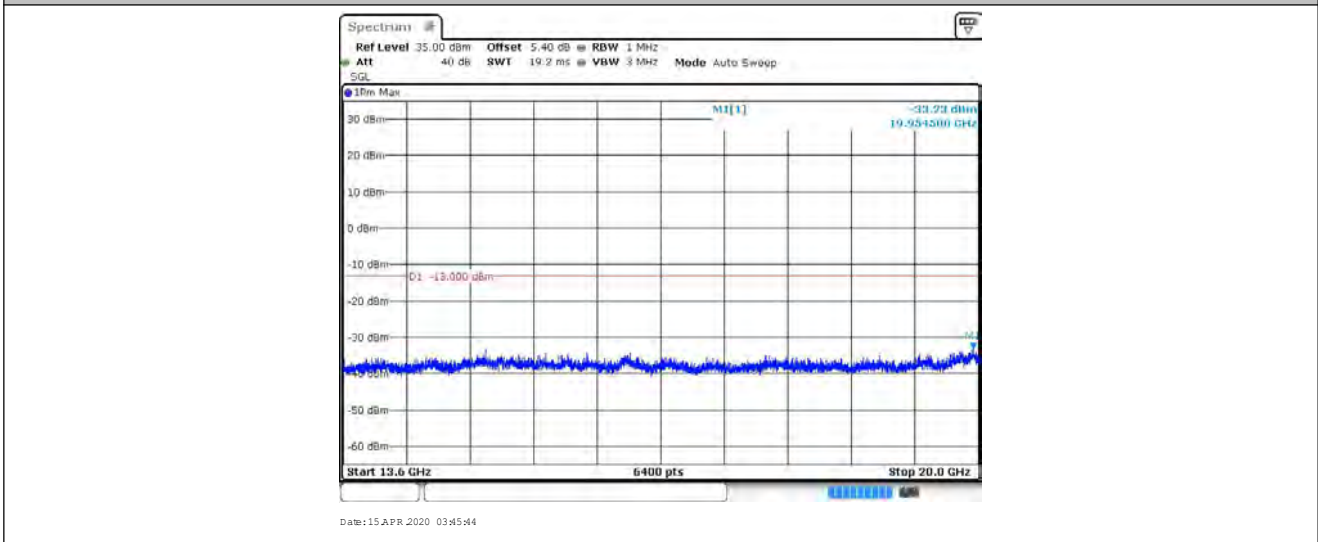
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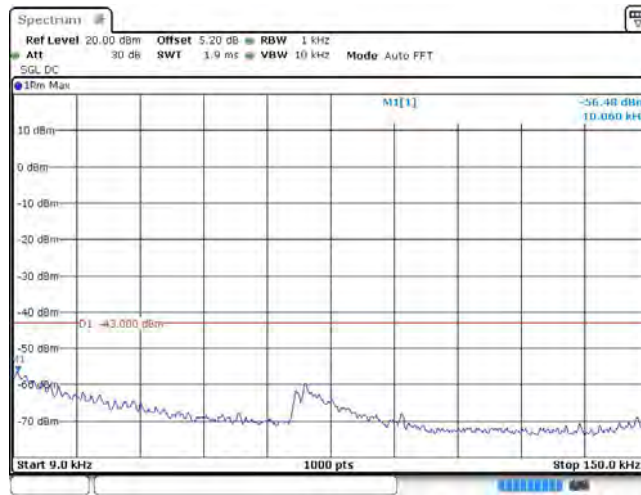
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GSM1900\_661

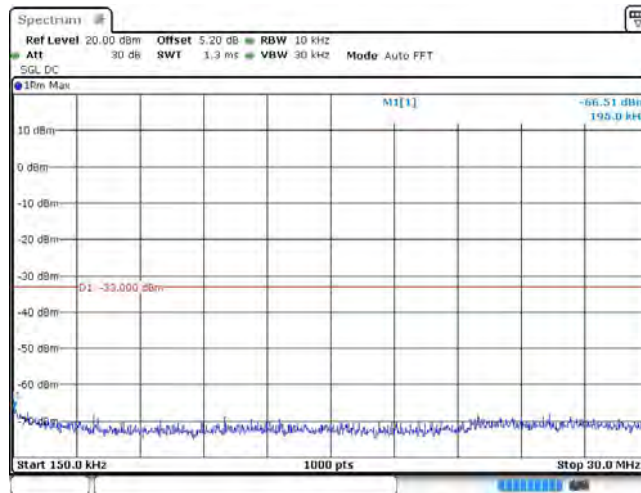


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Date: 15 APR 2020 03:46:04

GSM1900\_661



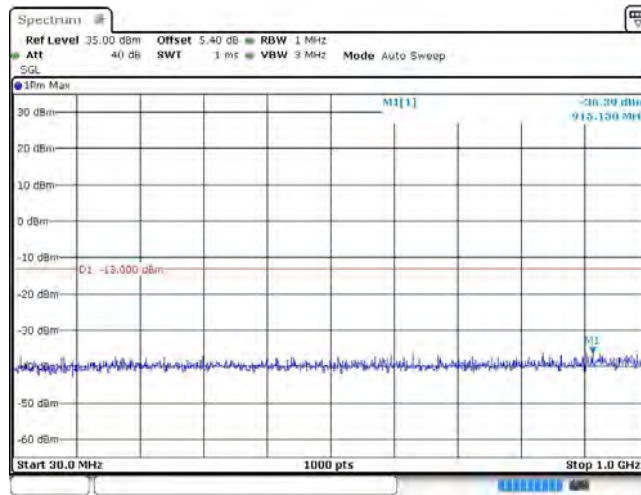
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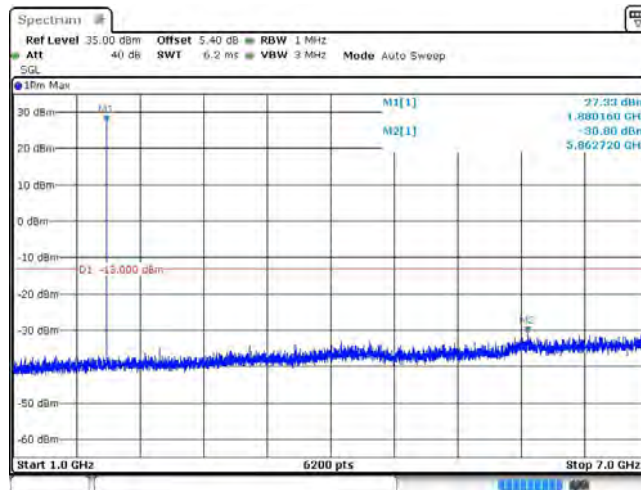
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Date: 15 APR 2020 03:46:28

GSM1900\_661



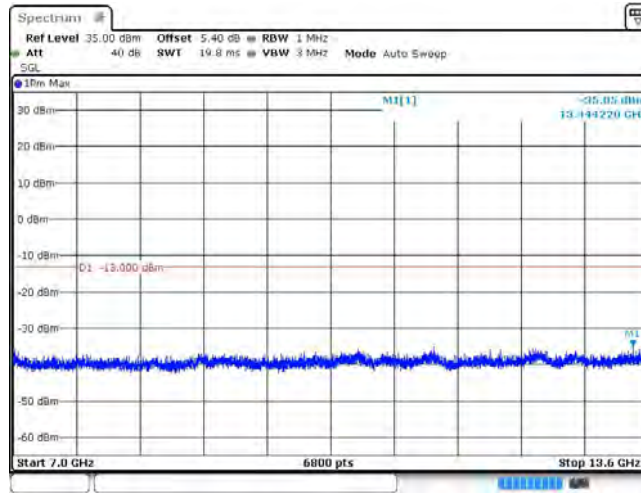
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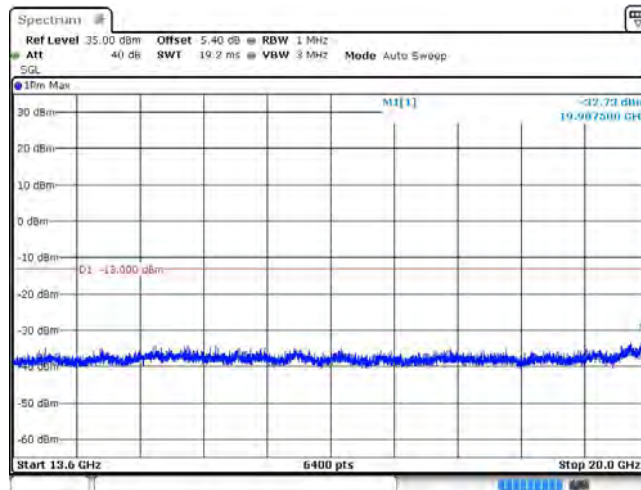
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Date: 15 APR 2020 03:46:54

GSM1900\_661



Date: 15 APR 2020 03:47:07

GSM1900\_810

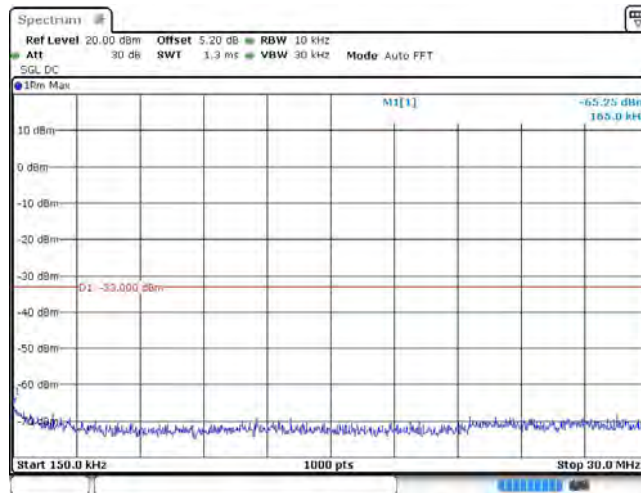


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Date: 15.APR.2020 03:47:26

GSM1900\_810



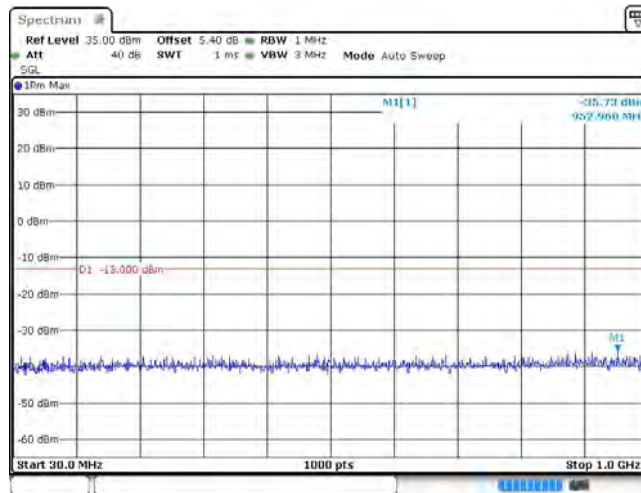
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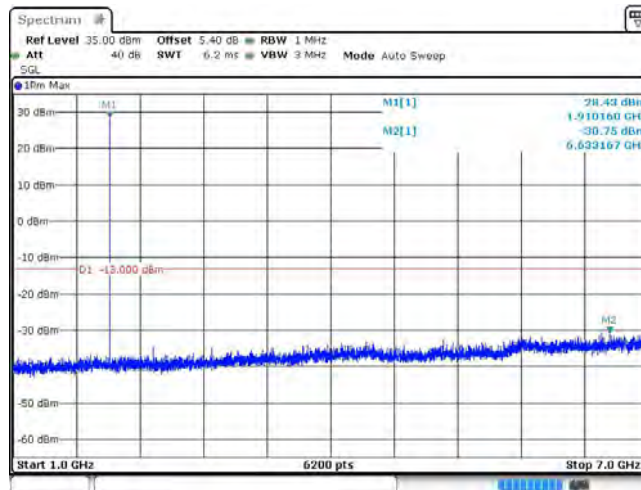
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Date: 15 APR 2020 03:47:51

GSM1900\_810

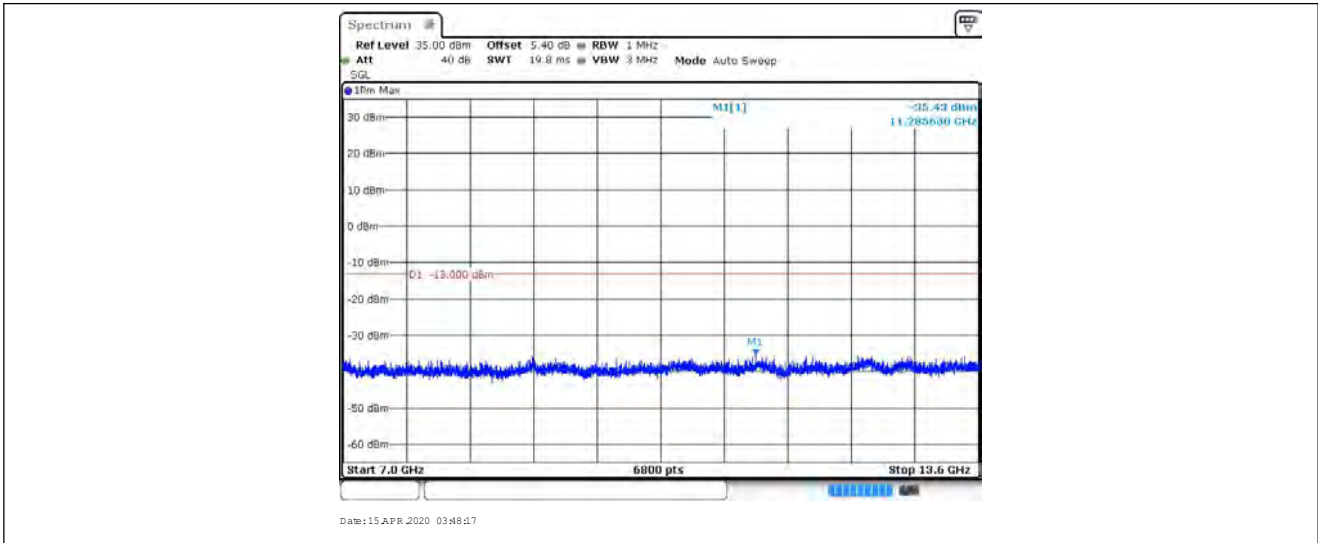


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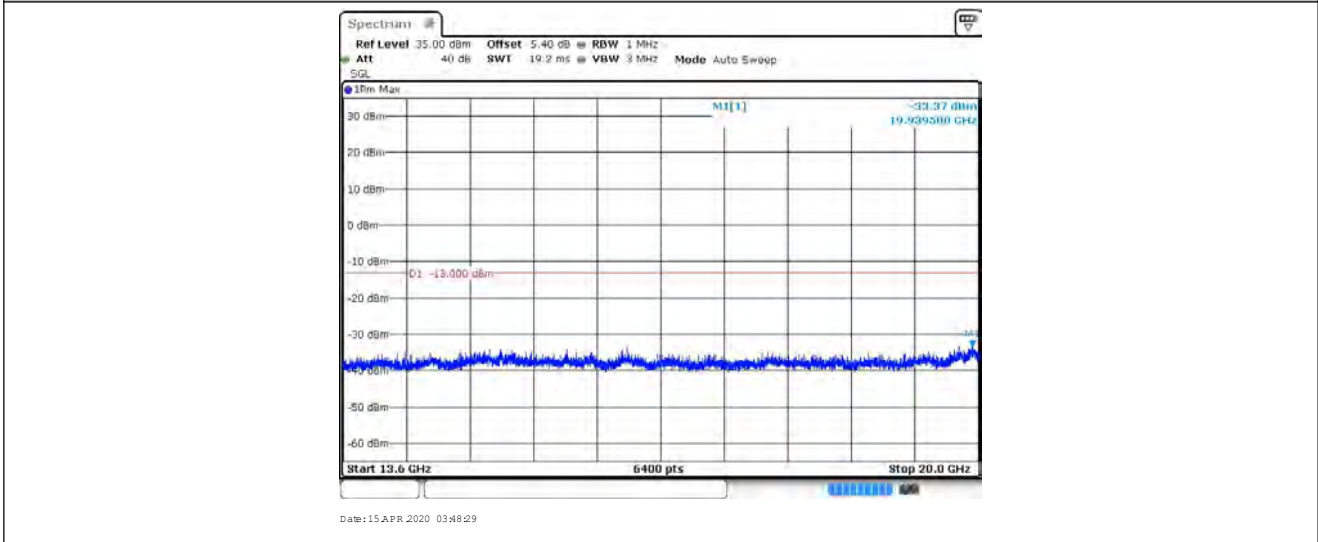
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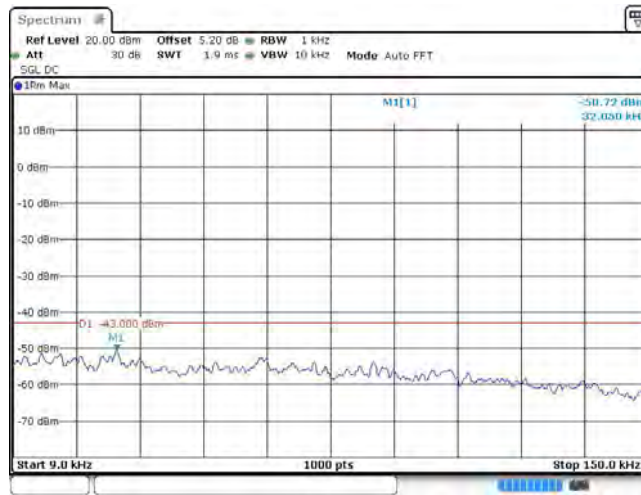
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EGPRS1900\_512

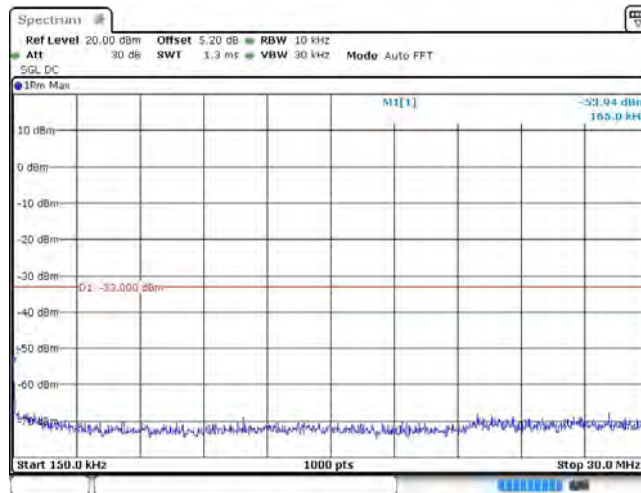


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Date: 15 APR 2020 03:45:01

EGPRS1900\_512

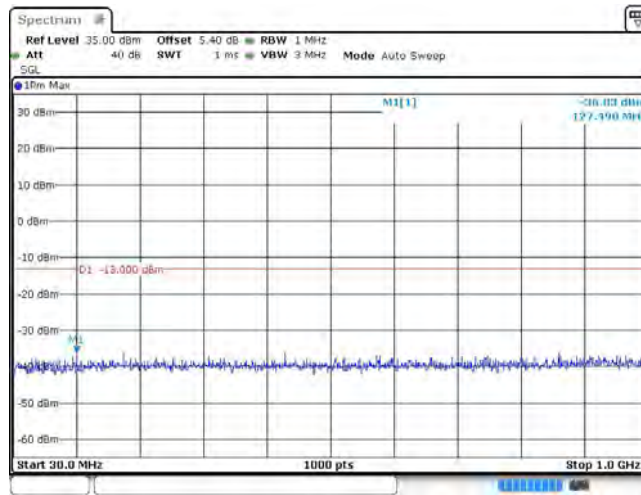


Date: 15 APR 2020 03:45:13

EGPRS1900\_512

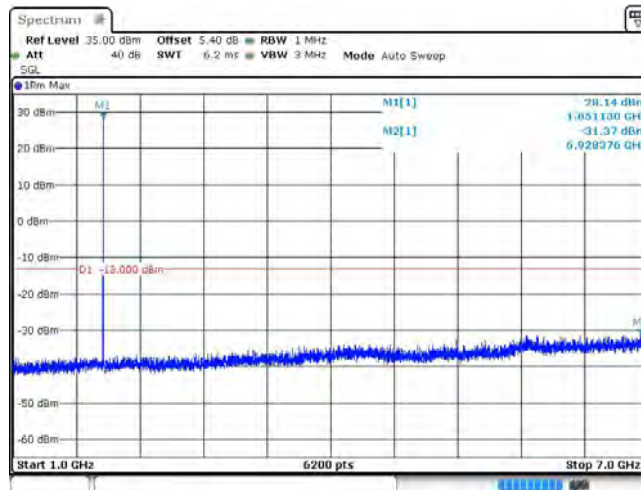


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Date: 15 APR 2020 03:45:25

EGPRS1900\_512

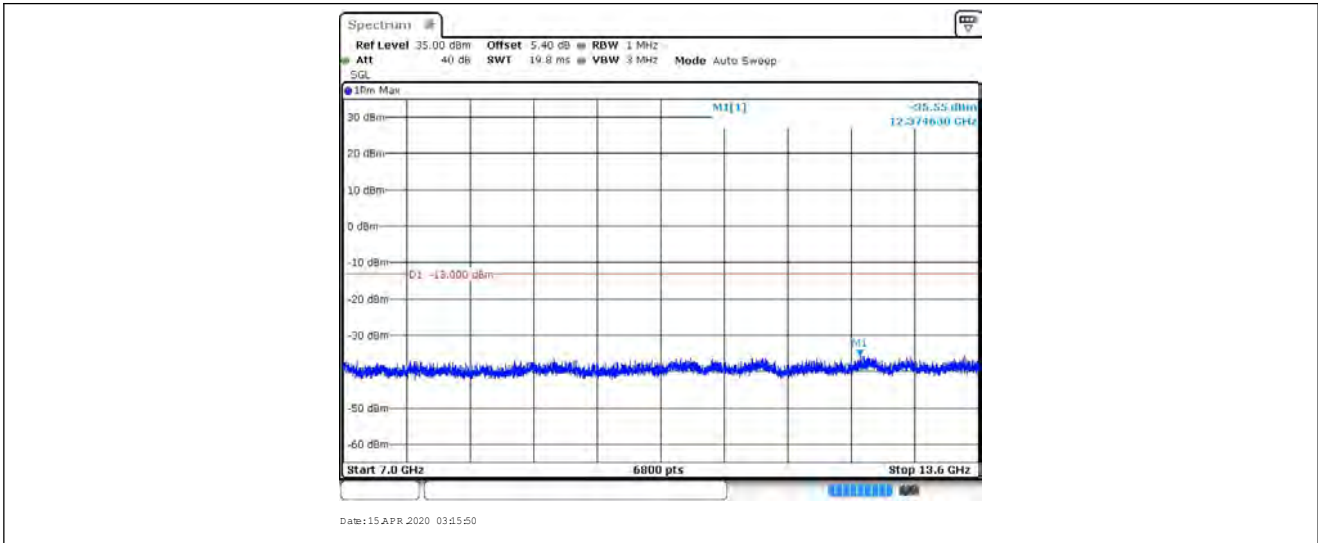


Date: 15 APR 2020 03:45:38

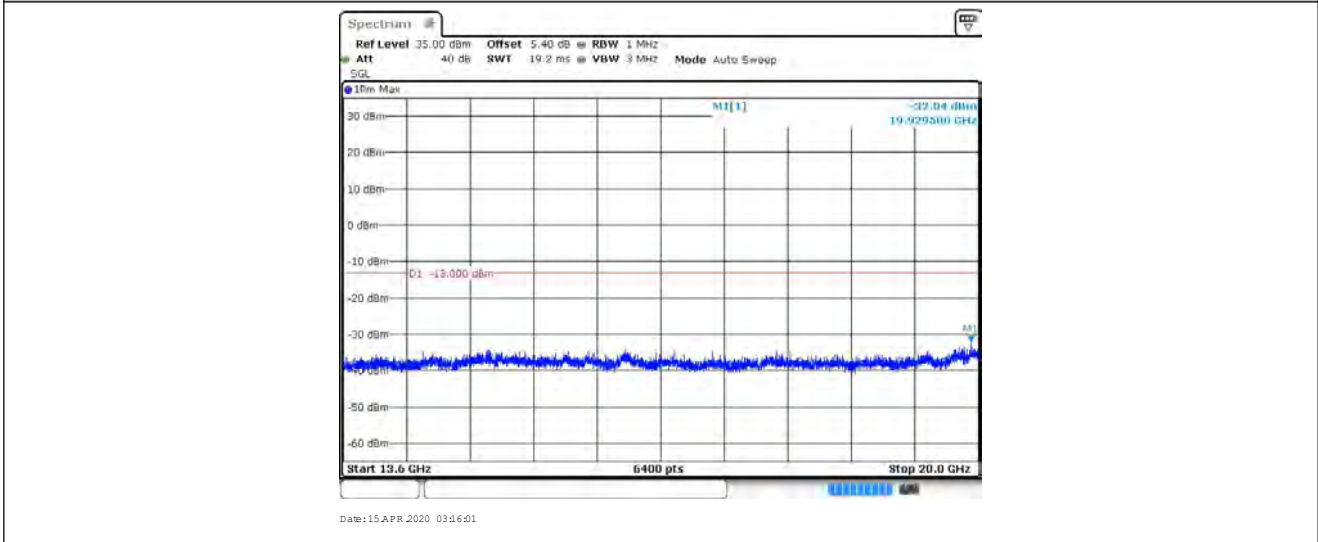
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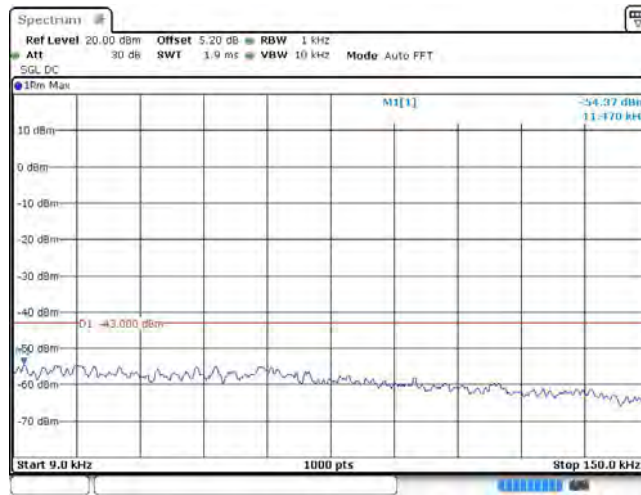
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EGPRS1900\_661

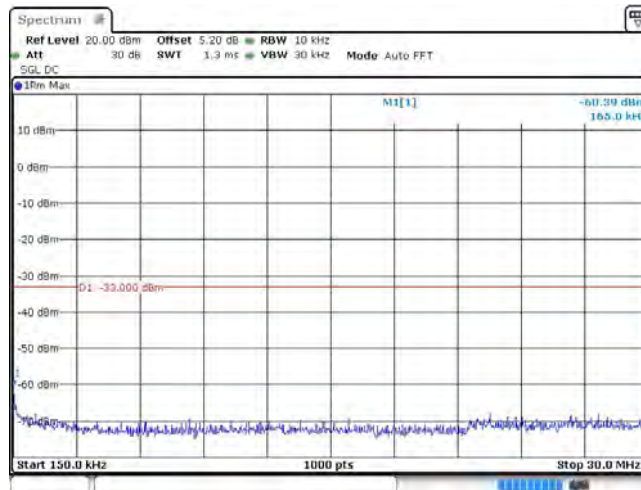


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Date: 15 APR 2020 03:16:20

EGPRS1900\_661



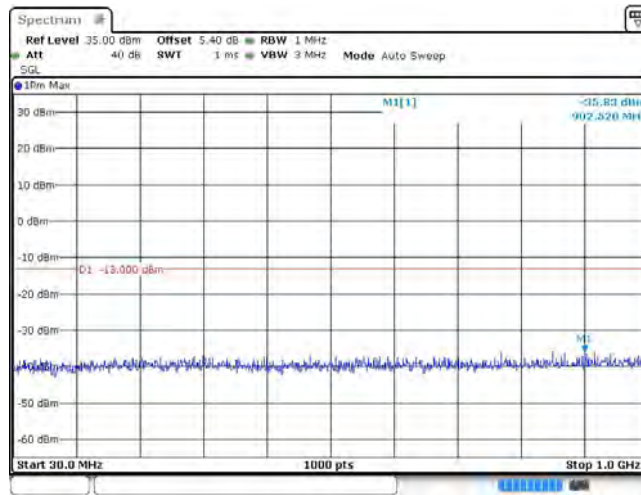
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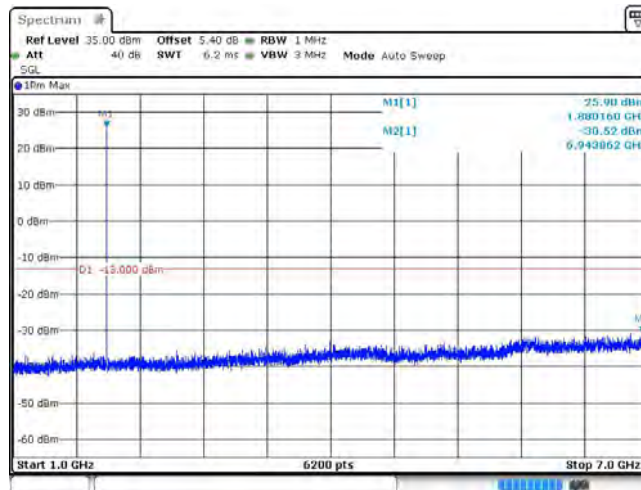
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Date: 15 APR 2020 03:16:43

EGPRS1900\_661

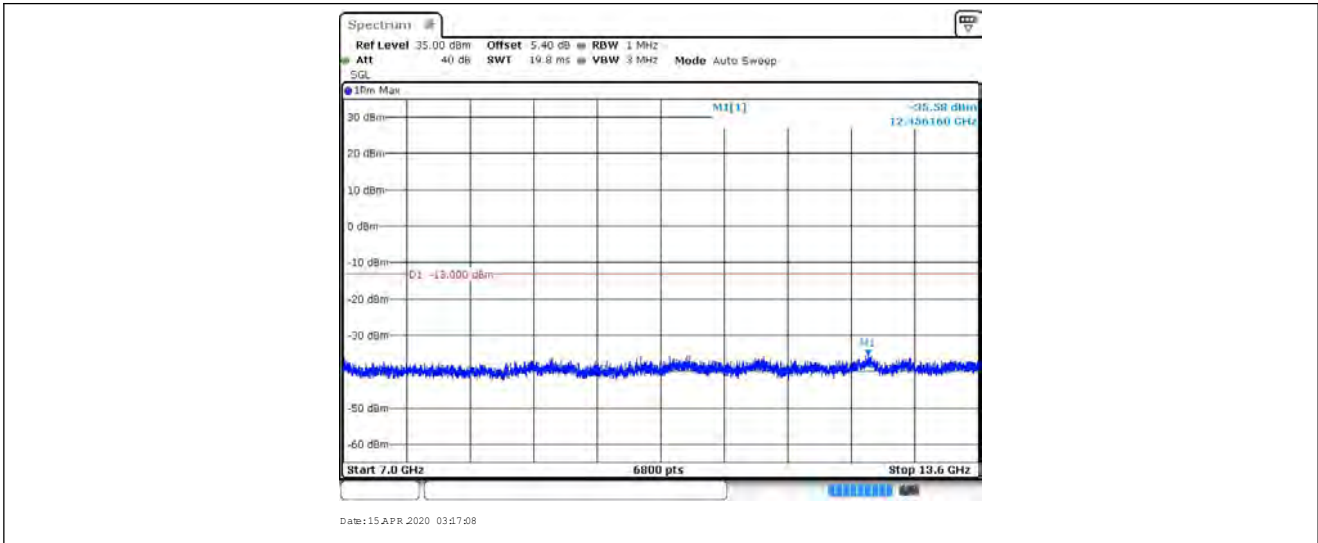


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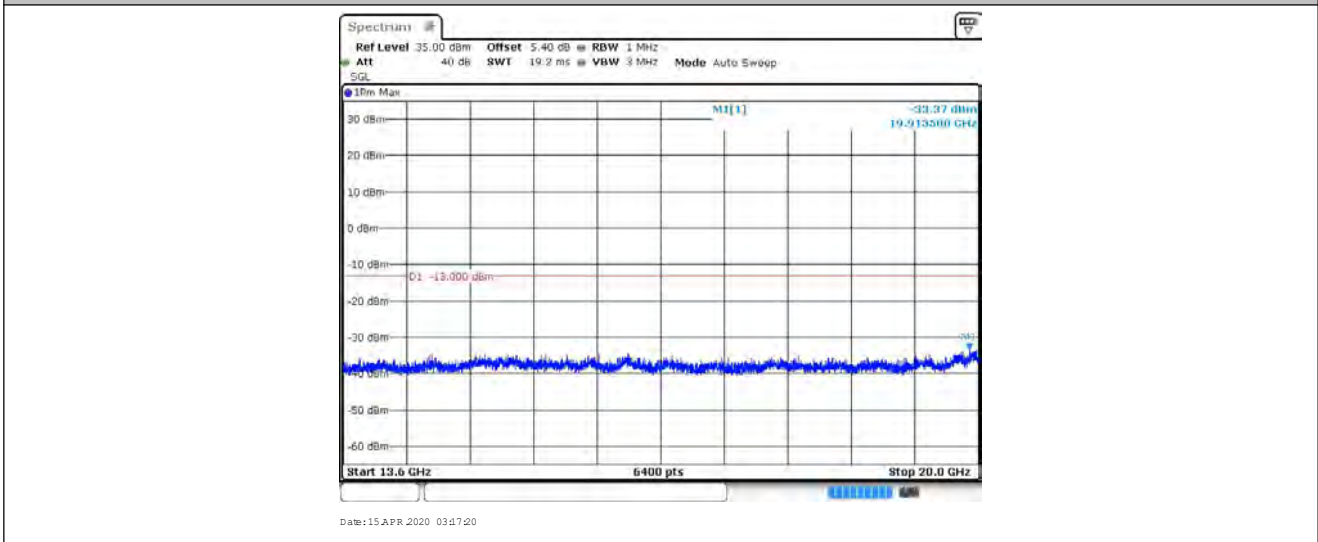
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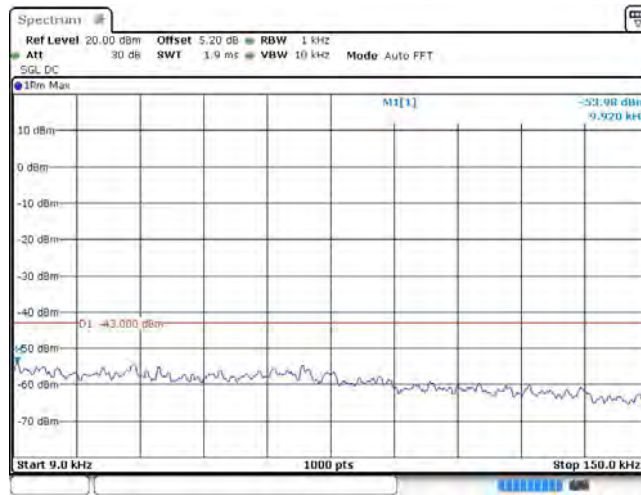


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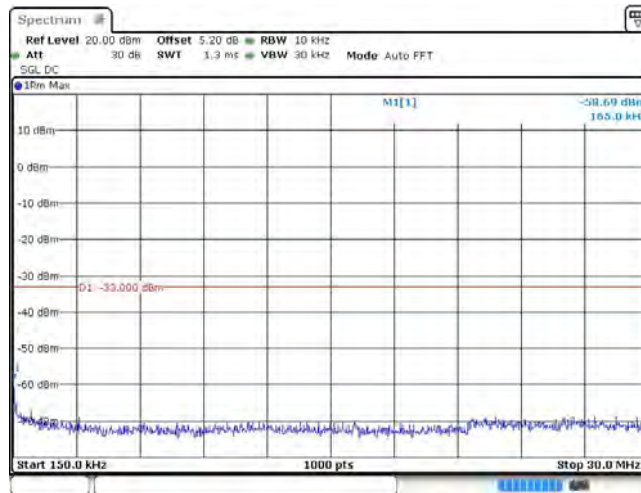
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Date: 15 APR 2020 03:17:38

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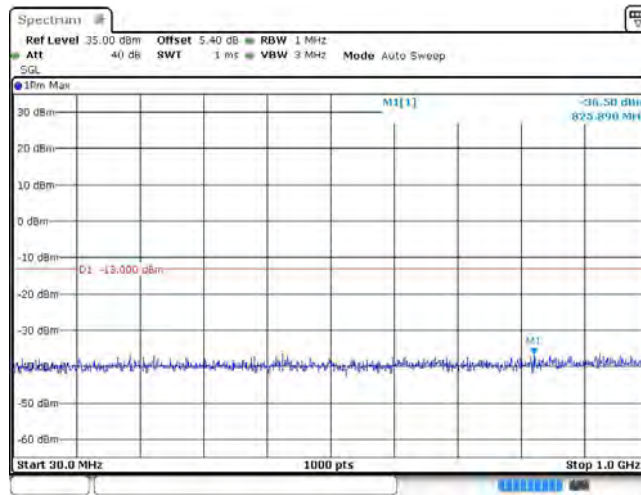
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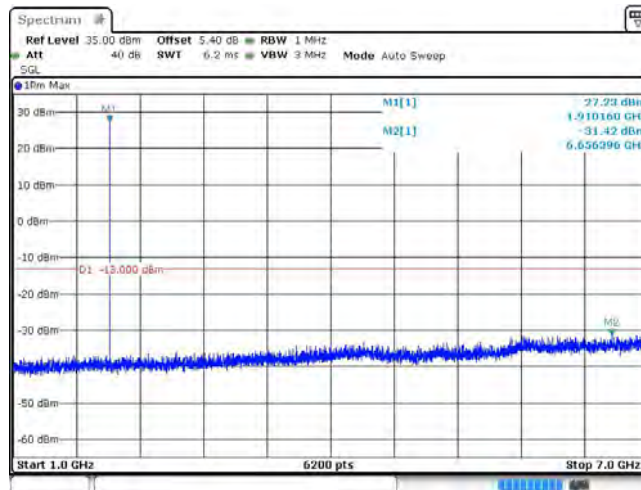
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Date: 15 APR 2020 03:48:02

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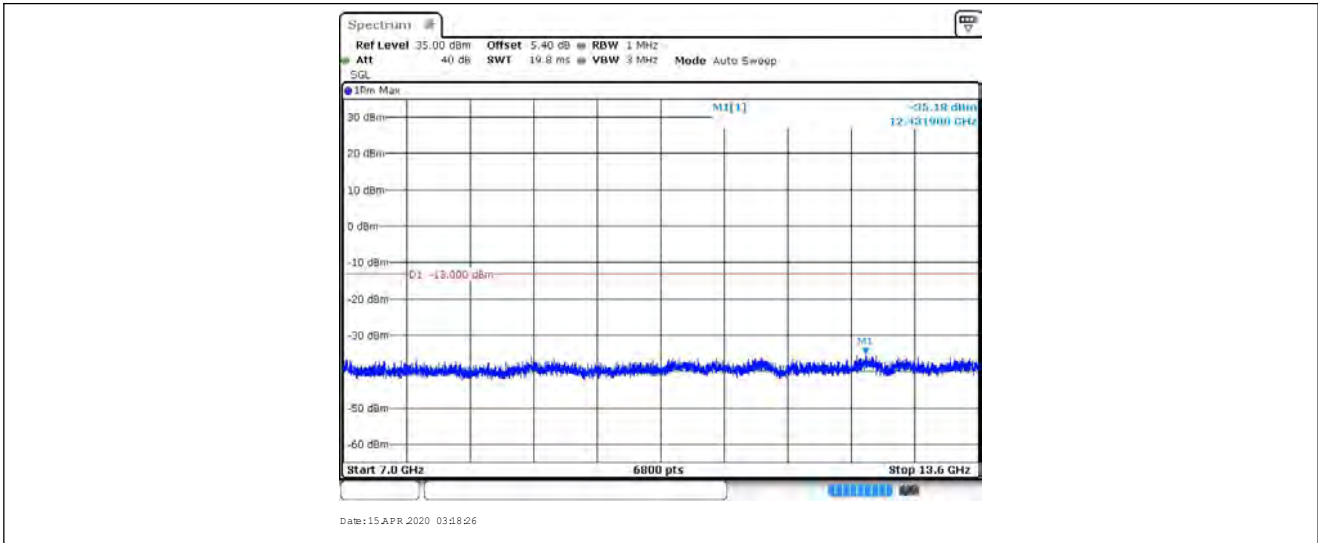


Date: 15 APR 2020 03:48:15

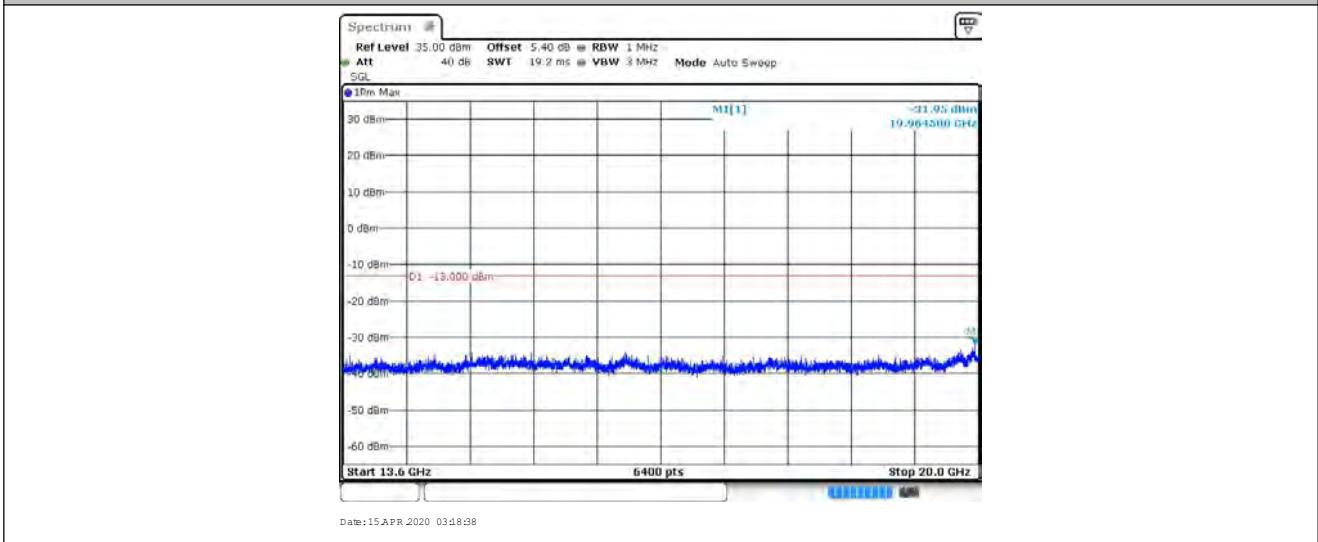
EGPRS1900\_810



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## 7. Field Strength of Spurious Radiation

### 7.1. Test Band = GSM 1900 (Down Ant)

#### 7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.0362	-64.45	-13.00	51.45	Vertical
570.8020	-64.17	-13.00	51.17	Vertical
2698.3397	-37.55	-13.00	24.55	Vertical
7453.6485	-54.69	-13.00	41.69	Vertical
14588.3863	-46.47	-13.00	33.47	Vertical
17997.9999	-38.98	-13.00	25.98	Vertical
44.2112	-64.14	-13.00	51.14	Horizontal
219.1110	-64.22	-13.00	51.22	Horizontal
2699.1398	-36.37	-13.00	23.37	Horizontal
7468.1489	-55.09	-13.00	42.09	Horizontal
16399.9467	-42.84	-13.00	29.84	Horizontal
17997.9999	-44.03	-13.00	31.03	Horizontal

#### 7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.4667	-63.61	-13.00	50.61	Vertical
110.8050	-64.96	-13.00	51.96	Vertical
2696.7393	-37.49	-13.00	24.49	Vertical
5639.5880	-59.59	-13.00	46.59	Vertical
14506.8836	-46.64	-13.00	33.64	Vertical
17999.5000	-38.82	-13.00	25.82	Vertical
41.6406	-64.41	-13.00	51.41	Horizontal
231.3821	-63.62	-13.00	50.62	Horizontal
2695.5391	-36.19	-13.00	23.19	Horizontal
5640.0880	-59.54	-13.00	46.54	Horizontal
16398.4466	-43.08	-13.00	30.08	Horizontal
17997.9999	-43.81	-13.00	30.81	Horizontal

#### 7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.4667	-63.24	-13.00	50.24	Vertical
110.0290	-64.78	-13.00	51.78	Vertical
2701.5403	-37.49	-13.00	24.49	Vertical
5729.5910	-59.81	-13.00	46.81	Vertical

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14520.3840	-46.57	-13.00	33.57	Vertical
17998.5000	-39.09	-13.00	26.09	Vertical
46.2483	-64.21	-13.00	51.21	Horizontal
219.1110	-64.84	-13.00	51.84	Horizontal
2697.1394	-36.30	-13.00	23.30	Horizontal
5729.5910	-58.32	-13.00	45.32	Horizontal
16383.9461	-42.69	-13.00	29.69	Horizontal
17999.5000	-43.81	-13.00	30.81	Horizontal

**7.2. Test Band = GSM 850 (Down Ant)**

**7.2.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
112.1146	-64.86	-13.00	51.86	Vertical
623.7667	-62.72	-13.00	49.72	Vertical
1699.7399	-62.11	-13.00	49.11	Vertical
2700.7401	-56.50	-13.00	43.50	Vertical
14469.3823	-46.98	-13.00	33.98	Vertical
17997.9999	-38.77	-13.00	25.77	Vertical
43.7262	-63.71	-13.00	50.71	Horizontal
440.8155	-67.13	-13.00	54.13	Horizontal
1648.1296	-57.77	-13.00	44.77	Horizontal
2699.1398	-55.30	-13.00	42.30	Horizontal
16396.9466	-42.20	-13.00	29.20	Horizontal
17994.9998	-43.39	-13.00	30.39	Horizontal

**7.2.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
111.2901	-64.77	-13.00	51.77	Vertical
530.1085	-65.54	-13.00	52.54	Vertical
1699.7399	-62.09	-13.00	49.09	Vertical
2713.5427	-56.62	-13.00	43.62	Vertical
14694.8898	-46.74	-13.00	33.74	Vertical
17923.4975	-40.57	-13.00	27.57	Vertical
42.0771	-64.48	-13.00	51.48	Horizontal
484.1767	-66.78	-13.00	53.78	Horizontal
1673.3347	-56.54	-13.00	43.54	Horizontal
2692.3385	-55.41	-13.00	42.41	Horizontal
16379.9460	-43.03	-13.00	30.03	Horizontal
17998.5000	-43.39	-13.00	30.39	Horizontal



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**7.2.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
113.2787	-64.94	-13.00	51.94	Vertical
605.1903	-63.29	-13.00	50.29	Vertical
1700.1400	-62.28	-13.00	49.28	Vertical
2709.5419	-56.83	-13.00	43.83	Vertical
14738.8913	-46.66	-13.00	33.66	Vertical
17991.9997	-38.95	-13.00	25.95	Vertical
43.3867	-64.61	-13.00	51.61	Horizontal
439.8940	-66.01	-13.00	53.01	Horizontal
1697.3395	-61.91	-13.00	48.91	Horizontal
2700.7401	-55.24	-13.00	42.24	Horizontal
16394.4465	-42.91	-13.00	29.91	Horizontal
17995.9999	-43.74	-13.00	30.74	Horizontal

**7.3. Test Band = GSM 1900 (Up Ant)**

**7.3.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
110.3200	-64.50	-13.00	51.50	Vertical
621.7781	-64.43	-13.00	51.43	Vertical
2674.7349	-37.68	-13.00	24.68	Vertical
7477.6493	-55.36	-13.00	42.36	Vertical
14321.3774	-47.69	-13.00	34.69	Vertical
17995.9999	-39.05	-13.00	26.05	Vertical
43.7262	-64.87	-13.00	51.87	Horizontal
562.0716	-64.43	-13.00	51.43	Horizontal
2707.5415	-36.69	-13.00	23.69	Horizontal
7403.6468	-55.53	-13.00	42.53	Horizontal
16404.4468	-43.03	-13.00	30.03	Horizontal
17997.9999	-43.81	-13.00	30.81	Horizontal

**7.3.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
106.7308	-65.31	-13.00	52.31	Vertical
657.9609	-63.93	-13.00	50.93	Vertical
2692.3385	-37.61	-13.00	24.61	Vertical
7444.1481	-55.00	-13.00	42.00	Vertical
14473.3824	-46.62	-13.00	33.62	Vertical
17996.9999	-38.93	-13.00	25.93	Vertical
43.7747	-64.57	-13.00	51.57	Horizontal

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583.5097	-63.80	-13.00	50.80	Horizontal
2691.1382	-36.24	-13.00	23.24	Horizontal
7367.1456	-55.83	-13.00	42.83	Horizontal
16378.4459	-42.91	-13.00	29.91	Horizontal
17996.4999	-43.85	-13.00	30.85	Horizontal

**7.3.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
109.0105	-65.33	-13.00	52.33	Vertical
603.0562	-64.49	-13.00	51.49	Vertical
2699.9400	-37.34	-13.00	24.34	Vertical
7110.1370	-56.38	-13.00	43.38	Vertical
14481.8827	-47.16	-13.00	34.16	Vertical
17985.9995	-38.88	-13.00	25.88	Vertical
40.8645	-64.72	-13.00	51.72	Horizontal
559.1130	-64.45	-13.00	51.45	Horizontal
2702.3405	-36.26	-13.00	23.26	Horizontal
7356.1452	-55.46	-13.00	42.46	Horizontal
16381.9461	-43.27	-13.00	30.27	Horizontal
17937.4979	-45.09	-13.00	32.09	Horizontal

**7.4. Test Band = GSM 850 (Up Ant)**

**7.4.1. Test Channel = LCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.4667	-60.72	-13.00	47.72	Vertical
110.8535	-63.86	-13.00	50.86	Vertical
1648.5297	-62.14	-13.00	49.14	Vertical
2700.3401	-56.37	-13.00	43.37	Vertical
14476.3825	-46.74	-13.00	33.74	Vertical
17999.0000	-38.42	-13.00	25.42	Vertical
40.5250	-63.52	-13.00	50.52	Horizontal
231.4306	-64.80	-13.00	51.80	Horizontal
1648.5297	-61.63	-13.00	48.63	Horizontal
2699.1398	-55.29	-13.00	42.29	Horizontal
16399.4466	-42.61	-13.00	29.61	Horizontal
17994.9998	-43.27	-13.00	30.27	Horizontal

**7.4.2. Test Channel = MCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
63.4667	-62.43	-13.00	49.43	Vertical
107.3129	-63.58	-13.00	50.58	Vertical

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1699.7399	-61.98	-13.00	48.98	Vertical
2701.5403	-56.39	-13.00	43.39	Vertical
14472.3824	-46.49	-13.00	33.49	Vertical
17999.0000	-38.69	-13.00	25.69	Vertical
44.5022	-62.83	-13.00	49.83	Horizontal
227.3079	-66.32	-13.00	53.32	Horizontal
1673.3347	-61.31	-13.00	48.31	Horizontal
2697.1394	-55.31	-13.00	42.31	Horizontal
16370.9457	-42.99	-13.00	29.99	Horizontal
17999.0000	-43.83	-13.00	30.83	Horizontal

**7.4.3. Test Channel = HCH**

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
107.6039	-64.61	-13.00	51.61	Vertical
461.3806	-65.66	-13.00	52.66	Vertical
1697.3395	-59.89	-13.00	46.89	Vertical
2703.5407	-56.53	-13.00	43.53	Vertical
14683.3894	-46.82	-13.00	33.82	Vertical
17997.4999	-38.19	-13.00	25.19	Vertical
43.7747	-62.95	-13.00	49.95	Horizontal
223.1852	-64.86	-13.00	51.86	Horizontal
1697.7395	-58.50	-13.00	45.50	Horizontal
2697.9396	-55.24	-13.00	42.24	Horizontal
16379.4460	-42.37	-13.00	29.37	Horizontal
17995.4999	-43.43	-13.00	30.43	Horizontal

Remark:

- 1) According to 971168 D01 Power Meas License Digital Systems, The amplitudes of unwanted emissions that are attenuated more than 20 dB below the applicable limit are not required to be reported.
- 2) The disturbance above 12.75GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the worst case data had been displayed.



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## 8. Frequency Stability

### 8.1. Frequency Error Vs Voltage

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	-1.45	-0.001763	±2.5	PASS
GSM850	128	VN	TN	-0.42	-0.000509	±2.5	PASS
GSM850	128	VH	TN	-0.61	-0.000744	±2.5	PASS
GSM850	190	VL	TN	0.29	0.000347	±2.5	PASS
GSM850	190	VN	TN	0.13	0.000154	±2.5	PASS
GSM850	190	VH	TN	-1.00	-0.001196	±2.5	PASS
GSM850	251	VL	TN	-1.36	-0.001598	±2.5	PASS
GSM850	251	VN	TN	0.23	0.000266	±2.5	PASS
GSM850	251	VH	TN	0.52	0.000609	±2.5	PASS
EGPRS850	128	VL	TN	-4.78	-0.005798	±2.5	PASS
EGPRS850	128	VN	TN	-3.87	-0.004701	±2.5	PASS
EGPRS850	128	VH	TN	-3.81	-0.004622	±2.5	PASS
EGPRS850	190	VL	TN	-3.29	-0.003936	±2.5	PASS
EGPRS850	190	VN	TN	0.77	0.000926	±2.5	PASS
EGPRS850	190	VH	TN	-1.81	-0.002161	±2.5	PASS
EGPRS850	251	VL	TN	-1.78	-0.002092	±2.5	PASS
EGPRS850	251	VN	TN	2.84	0.003347	±2.5	PASS
EGPRS850	251	VH	TN	-1.10	-0.001293	±2.5	PASS
GSM1900	512	VL	TN	0.84	0.000454	±2.5	PASS
GSM1900	512	VN	TN	-3.29	-0.001780	±2.5	PASS
GSM1900	512	VH	TN	1.26	0.000681	±2.5	PASS
GSM1900	661	VL	TN	-47.52	-0.025279	±2.5	PASS
GSM1900	661	VN	TN	-6.65	-0.003538	±2.5	PASS
GSM1900	661	VH	TN	-1.26	-0.000670	±2.5	PASS
GSM1900	810	VL	TN	-6.13	-0.003212	±2.5	PASS
GSM1900	810	VN	TN	-6.91	-0.003618	±2.5	PASS
GSM1900	810	VH	TN	-5.62	-0.002942	±2.5	PASS
EGPRS1900	512	VL	TN	-6.91	-0.003734	±2.5	PASS
EGPRS1900	512	VN	TN	4.04	0.002181	±2.5	PASS
EGPRS1900	512	VH	TN	2.65	0.001431	±2.5	PASS
EGPRS1900	661	VL	TN	14.17	0.007539	±2.5	PASS
EGPRS1900	661	VN	TN	6.33	0.003366	±2.5	PASS
EGPRS1900	661	VH	TN	0.87	0.000464	±2.5	PASS
EGPRS1900	810	VL	TN	2.49	0.001302	±2.5	PASS
EGPRS1900	810	VN	TN	-0.77	-0.000406	±2.5	PASS
EGPRS1900	810	VH	TN	-0.26	-0.000135	±2.5	PASS



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**8.2. Frequency Error Vs Temperature**

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	-1.03	-0.001254	±2.5	PASS
GSM850	128	VN	-20	0.48	0.000588	±2.5	PASS
GSM850	128	VN	-10	-2.29	-0.002781	±2.5	PASS
GSM850	128	VN	0	2.65	0.003212	±2.5	PASS
GSM850	128	VN	10	2.36	0.002860	±2.5	PASS
GSM850	128	VN	20	1.32	0.001606	±2.5	PASS
GSM850	128	VN	30	1.26	0.001528	±2.5	PASS
GSM850	128	VN	40	0.61	0.000744	±2.5	PASS
GSM850	128	VN	50	-1.49	-0.001802	±2.5	PASS
GSM850	190	VN	-30	-0.19	-0.000232	±2.5	PASS
GSM850	190	VN	-20	0.55	0.000656	±2.5	PASS
GSM850	190	VN	-10	-0.68	-0.000810	±2.5	PASS
GSM850	190	VN	0	-0.68	-0.000810	±2.5	PASS
GSM850	190	VN	10	1.36	0.001621	±2.5	PASS
GSM850	190	VN	20	0.74	0.000888	±2.5	PASS
GSM850	190	VN	30	-1.42	-0.001698	±2.5	PASS
GSM850	190	VN	40	1.68	0.002007	±2.5	PASS
GSM850	190	VN	50	0.06	0.000077	±2.5	PASS
GSM850	251	VN	-30	-0.94	-0.001103	±2.5	PASS
GSM850	251	VN	-20	-1.23	-0.001445	±2.5	PASS
GSM850	251	VN	-10	1.55	0.001826	±2.5	PASS
GSM850	251	VN	0	-0.45	-0.000533	±2.5	PASS
GSM850	251	VN	10	-1.32	-0.001560	±2.5	PASS
GSM850	251	VN	20	0.16	0.000190	±2.5	PASS
GSM850	251	VN	30	-0.26	-0.000304	±2.5	PASS
GSM850	251	VN	40	0.77	0.000913	±2.5	PASS
GSM850	251	VN	50	0.26	0.000304	±2.5	PASS
EGPRS850	128	VN	-30	-2.65	-0.003212	±2.5	PASS
EGPRS850	128	VN	-20	-2.32	-0.002820	±2.5	PASS
EGPRS850	128	VN	-10	-2.13	-0.002585	±2.5	PASS
EGPRS850	128	VN	0	-4.26	-0.005171	±2.5	PASS
EGPRS850	128	VN	10	-5.88	-0.007129	±2.5	PASS
EGPRS850	128	VN	20	-3.91	-0.004740	±2.5	PASS
EGPRS850	128	VN	30	-1.03	-0.001254	±2.5	PASS
EGPRS850	128	VN	40	-2.74	-0.003330	±2.5	PASS
EGPRS850	128	VN	50	-3.81	-0.004622	±2.5	PASS
EGPRS850	190	VN	-30	-1.71	-0.002045	±2.5	PASS
EGPRS850	190	VN	-20	-4.75	-0.005673	±2.5	PASS
EGPRS850	190	VN	-10	-3.03	-0.003628	±2.5	PASS
EGPRS850	190	VN	0	-5.81	-0.006947	±2.5	PASS
EGPRS850	190	VN	10	-3.03	-0.003628	±2.5	PASS
EGPRS850	190	VN	20	-6.01	-0.007178	±2.5	PASS
EGPRS850	190	VN	30	0.48	0.000579	±2.5	PASS



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EGPRS850	190	VN	40	-0.71	-0.000849	±2.5	PASS
EGPRS850	190	VN	50	-3.81	-0.004554	±2.5	PASS
EGPRS850	251	VN	-30	-0.61	-0.000723	±2.5	PASS
EGPRS850	251	VN	-20	0.71	0.000837	±2.5	PASS
EGPRS850	251	VN	-10	-0.42	-0.000494	±2.5	PASS
EGPRS850	251	VN	0	-1.90	-0.002244	±2.5	PASS
EGPRS850	251	VN	10	0.48	0.000571	±2.5	PASS
EGPRS850	251	VN	20	4.07	0.004793	±2.5	PASS
EGPRS850	251	VN	30	1.29	0.001521	±2.5	PASS
EGPRS850	251	VN	40	2.52	0.002967	±2.5	PASS
EGPRS850	251	VN	50	-1.49	-0.001750	±2.5	PASS
GSM1900	512	VN	-30	2.03	0.001099	±2.5	PASS
GSM1900	512	VN	-20	1.74	0.000942	±2.5	PASS
GSM1900	512	VN	-10	-1.84	-0.000995	±2.5	PASS
GSM1900	512	VN	0	-1.52	-0.000820	±2.5	PASS
GSM1900	512	VN	10	0.61	0.000332	±2.5	PASS
GSM1900	512	VN	20	-3.52	-0.001902	±2.5	PASS
GSM1900	512	VN	30	-2.03	-0.001099	±2.5	PASS
GSM1900	512	VN	40	-1.23	-0.000663	±2.5	PASS
GSM1900	512	VN	50	-2.26	-0.001221	±2.5	PASS
GSM1900	661	VN	-30	-0.42	-0.000223	±2.5	PASS
GSM1900	661	VN	-20	2.16	0.001151	±2.5	PASS
GSM1900	661	VN	-10	0.26	0.000137	±2.5	PASS
GSM1900	661	VN	0	-3.36	-0.001786	±2.5	PASS
GSM1900	661	VN	10	-6.49	-0.003452	±2.5	PASS
GSM1900	661	VN	20	-2.62	-0.001391	±2.5	PASS
GSM1900	661	VN	30	-4.71	-0.002507	±2.5	PASS
GSM1900	661	VN	40	-4.71	-0.002507	±2.5	PASS
GSM1900	661	VN	50	0.84	0.000447	±2.5	PASS
GSM1900	810	VN	-30	-2.07	-0.001082	±2.5	PASS
GSM1900	810	VN	-20	0.19	0.000101	±2.5	PASS
GSM1900	810	VN	-10	-2.71	-0.001420	±2.5	PASS
GSM1900	810	VN	0	-1.87	-0.000981	±2.5	PASS
GSM1900	810	VN	10	-3.52	-0.001843	±2.5	PASS
GSM1900	810	VN	20	-0.58	-0.000304	±2.5	PASS
GSM1900	810	VN	30	2.23	0.001166	±2.5	PASS
GSM1900	810	VN	40	-0.77	-0.000406	±2.5	PASS
GSM1900	810	VN	50	-1.55	-0.000811	±2.5	PASS
EGPRS1900	512	VN	-30	0.10	0.000052	±2.5	PASS
EGPRS1900	512	VN	-20	0.52	0.000279	±2.5	PASS
EGPRS1900	512	VN	-10	4.75	0.002565	±2.5	PASS
EGPRS1900	512	VN	0	3.03	0.001640	±2.5	PASS
EGPRS1900	512	VN	10	3.81	0.002059	±2.5	PASS
EGPRS1900	512	VN	20	-3.52	-0.001902	±2.5	PASS
EGPRS1900	512	VN	30	3.13	0.001693	±2.5	PASS
EGPRS1900	512	VN	40	0.68	0.000366	±2.5	PASS
EGPRS1900	512	VN	50	-0.06	-0.000035	±2.5	PASS



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EGPRS1900	661	VN	-30	1.29	0.000687	±2.5	PASS
EGPRS1900	661	VN	-20	0.16	0.000086	±2.5	PASS
EGPRS1900	661	VN	-10	1.39	0.000738	±2.5	PASS
EGPRS1900	661	VN	0	3.65	0.001941	±2.5	PASS
EGPRS1900	661	VN	10	1.55	0.000824	±2.5	PASS
EGPRS1900	661	VN	20	0.06	0.000034	±2.5	PASS
EGPRS1900	661	VN	30	-0.32	-0.000172	±2.5	PASS
EGPRS1900	661	VN	40	-0.06	-0.000034	±2.5	PASS
EGPRS1900	661	VN	50	3.42	0.001820	±2.5	PASS
EGPRS1900	810	VN	-30	2.10	0.001099	±2.5	PASS
EGPRS1900	810	VN	-20	0.77	0.000406	±2.5	PASS
EGPRS1900	810	VN	-10	1.55	0.000811	±2.5	PASS
EGPRS1900	810	VN	0	-4.16	-0.002181	±2.5	PASS
EGPRS1900	810	VN	10	2.07	0.001082	±2.5	PASS
EGPRS1900	810	VN	20	-0.74	-0.000389	±2.5	PASS
EGPRS1900	810	VN	30	2.20	0.001150	±2.5	PASS
EGPRS1900	810	VN	40	-3.52	-0.001843	±2.5	PASS
EGPRS1900	810	VN	50	0.00	0.000000	±2.5	PASS

The End



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