



# Appendix B

## GSM 850 & 1900



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

### 1.1. Test Result

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.02	26.71	38.45	PASS
GSM850	190	---	33.06	26.75	38.45	PASS
GSM850	251	---	33.07	26.76	38.45	PASS
EGPRS850	128	1	26.50	20.19	38.45	PASS
EGPRS850	128	2	25.28	18.97	38.45	PASS
EGPRS850	128	3	23.19	16.88	38.45	PASS
EGPRS850	128	4	22.19	15.88	38.45	PASS
EGPRS850	190	1	26.47	20.16	38.45	PASS
EGPRS850	190	2	25.32	19.01	38.45	PASS
EGPRS850	190	3	23.22	16.91	38.45	PASS
EGPRS850	190	4	22.27	15.96	38.45	PASS
EGPRS850	251	1	26.64	20.33	38.45	PASS
EGPRS850	251	2	25.40	19.09	38.45	PASS
EGPRS850	251	3	23.31	17.00	38.45	PASS
EGPRS850	251	4	22.35	16.04	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.18	23.87	33.00	PASS
GSM1900	661	---	30.13	23.82	33.00	PASS
GSM1900	810	---	30.11	23.80	33.00	PASS
EGPRS1900	512	1	26.71	20.40	33.00	PASS
EGPRS1900	512	2	25.76	19.45	33.00	PASS
EGPRS1900	512	3	23.67	17.36	33.00	PASS
EGPRS1900	512	4	22.59	16.28	33.00	PASS
EGPRS1900	661	1	26.66	20.35	33.00	PASS
EGPRS1900	661	2	25.67	19.36	33.00	PASS
EGPRS1900	661	3	23.65	17.34	33.00	PASS
EGPRS1900	661	4	22.53	16.22	33.00	PASS
EGPRS1900	810	1	26.61	20.30	33.00	PASS
EGPRS1900	810	2	25.61	19.30	33.00	PASS
EGPRS1900	810	3	23.78	17.47	33.00	PASS
EGPRS1900	810	4	22.56	16.25	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	7.65	13	PASS
GSM850	190	7.71	13	PASS
GSM850	251	7.71	13	PASS
EGPRS850	128	10.84	13	PASS
EGPRS850	190	10.38	13	PASS
EGPRS850	251	10.41	13	PASS
GSM1900	512	7.68	13	PASS
GSM1900	661	7.71	13	PASS
GSM1900	810	7.65	13	PASS
EGPRS1900	512	10.75	13	PASS
EGPRS1900	661	10.67	13	PASS
EGPRS1900	810	10.78	13	PASS

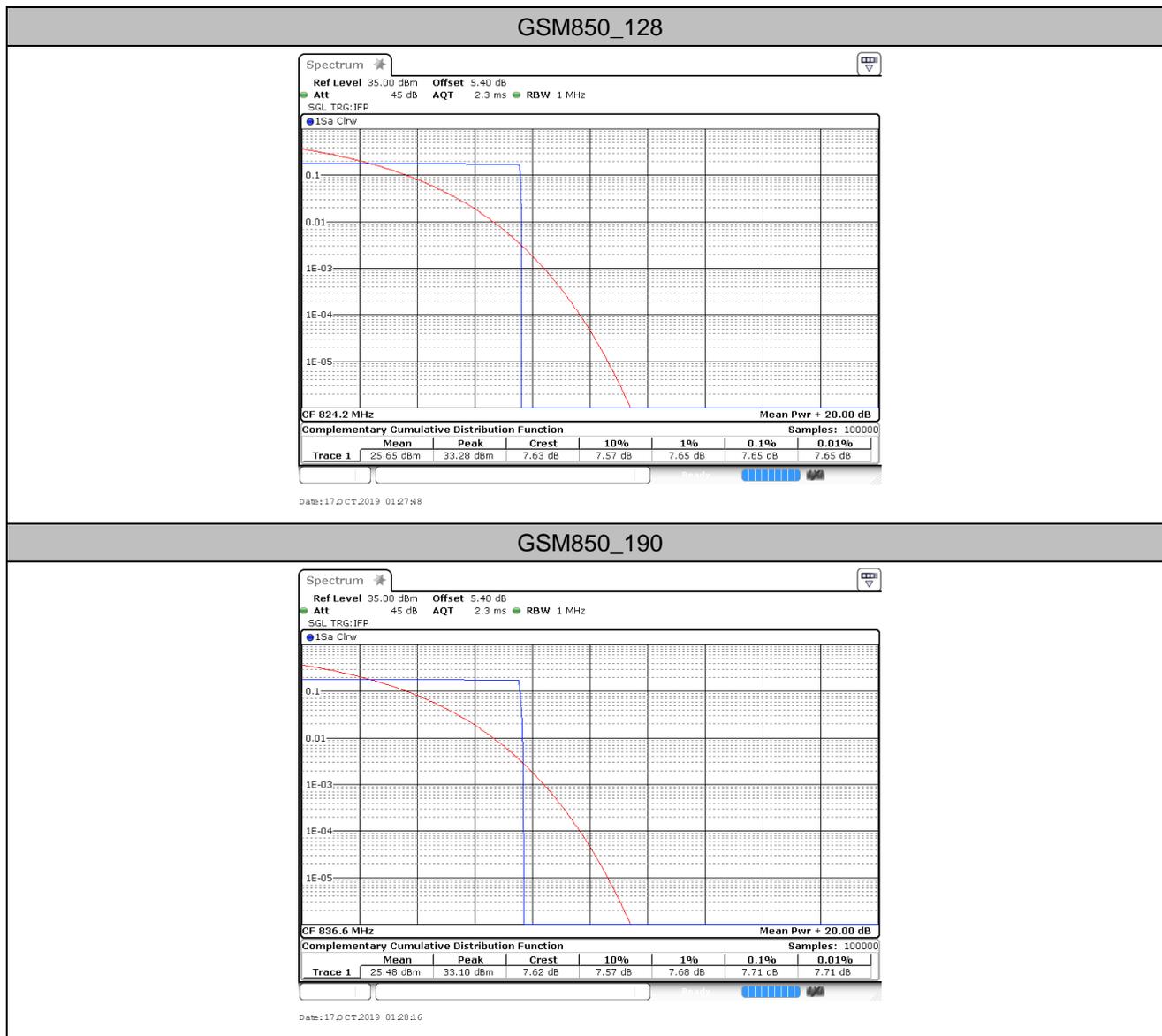


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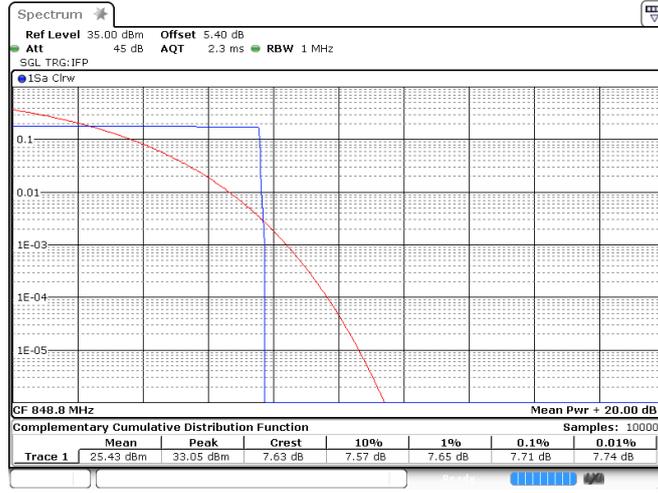
2.2.Part II - Test Plots



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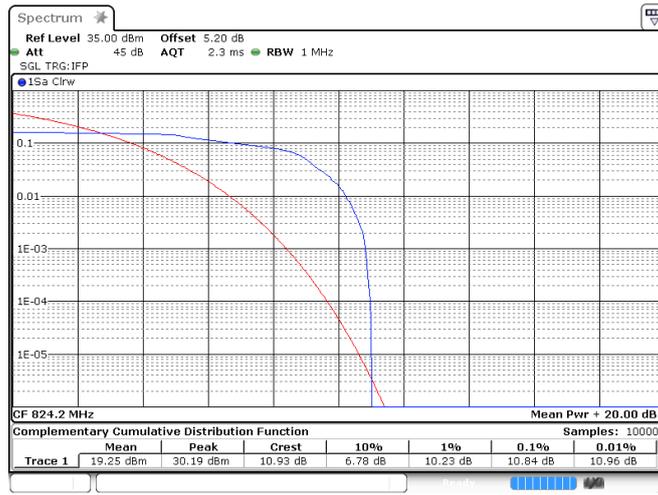


GSM850\_251



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EGPRS850\_128



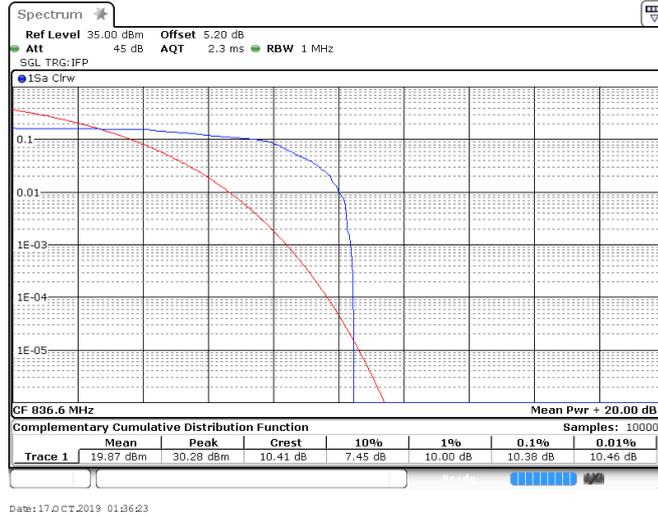
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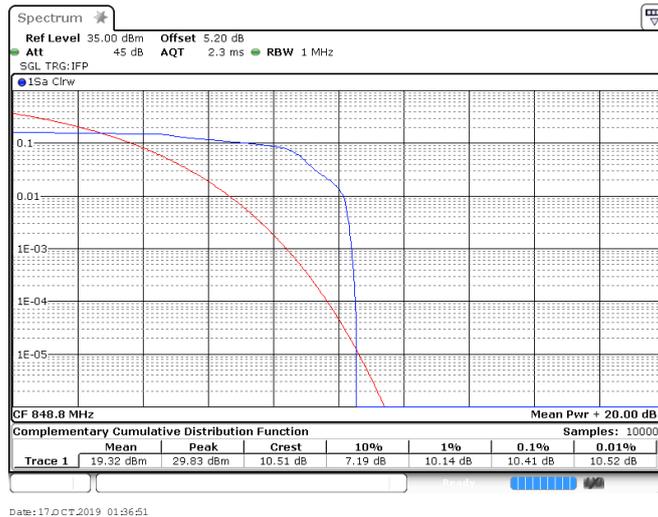
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EGPRS850\_190



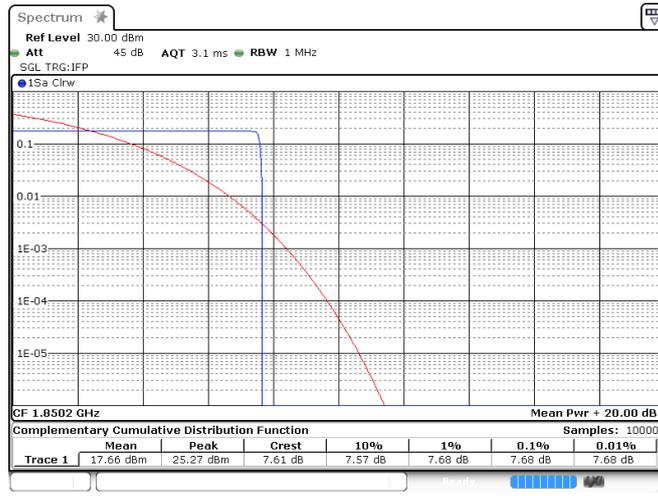
EGPRS850\_251



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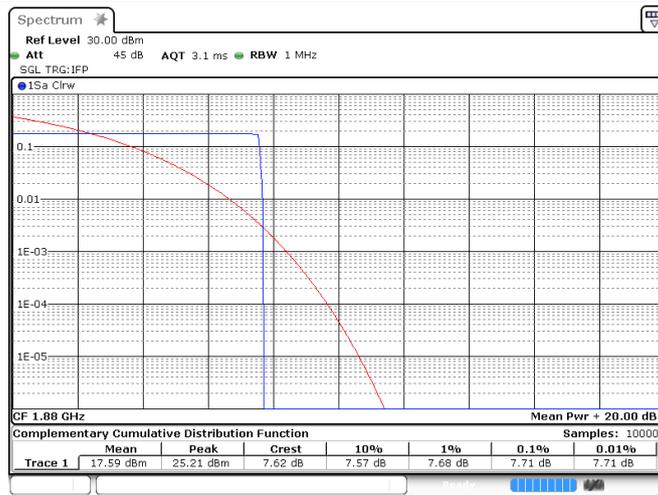


GSM1900\_512



Date: 17 Oct 2019 00:56:12

GSM1900\_661



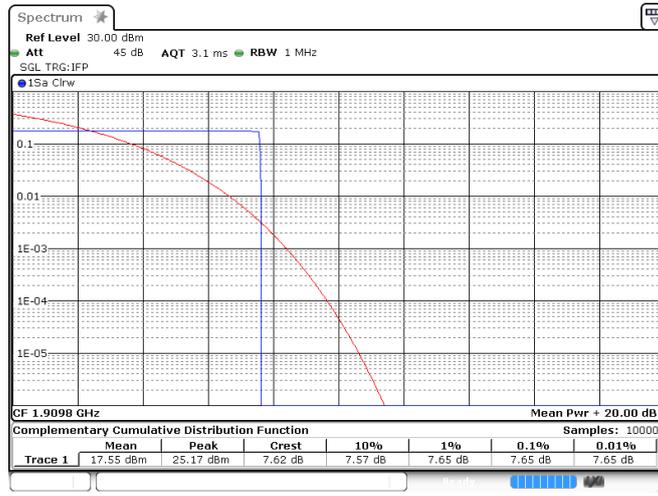
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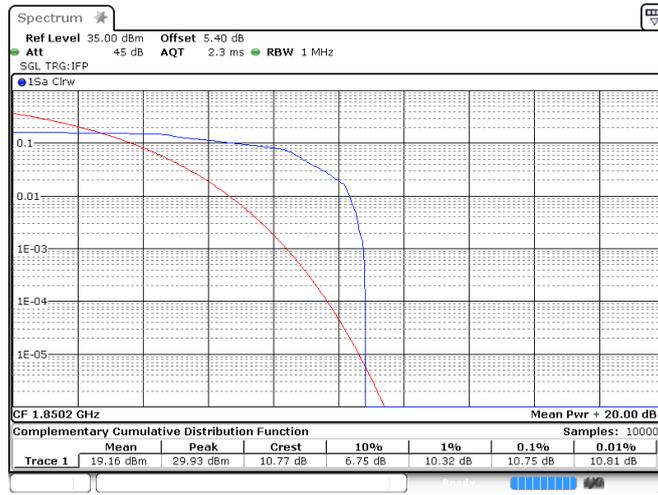


**GSM1900\_810**



Date: 17/07/2019 00:57:07

**EGPRS1900\_512**



Date: 17/07/2019 01:10:43



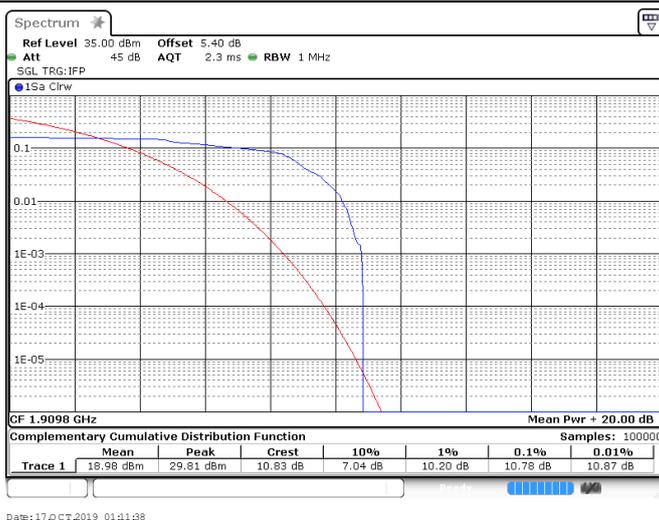
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EGPRS1900\_661



EGPRS1900\_810



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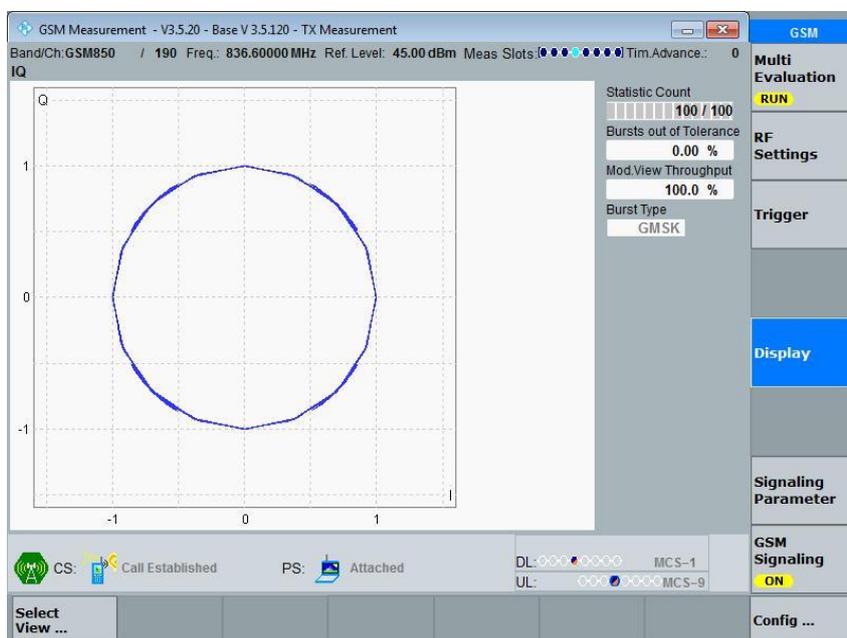
### 3. Modulation Characteristics

#### 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



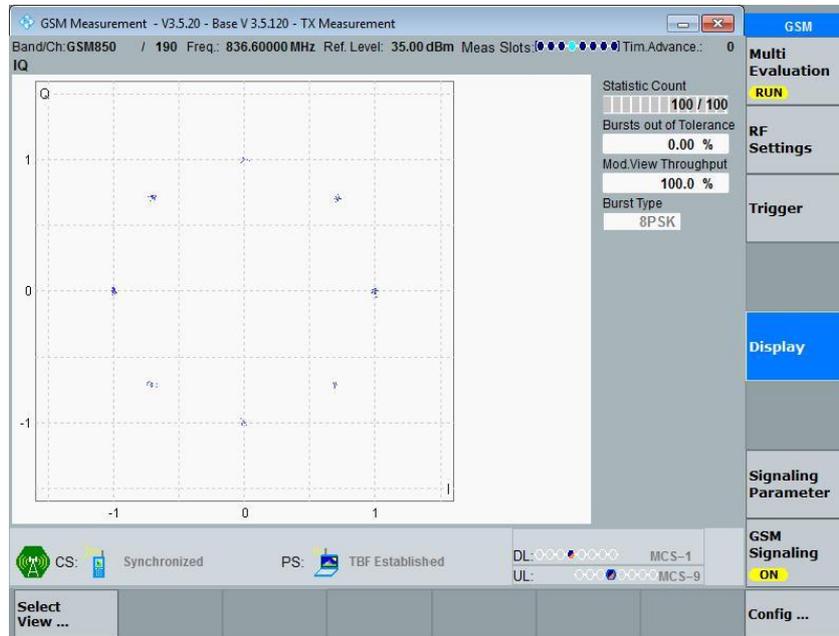
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**3.1.1.2. Test Mode = GSM/TM2**

**3.1.1.2.1. Test Channel = MCH**

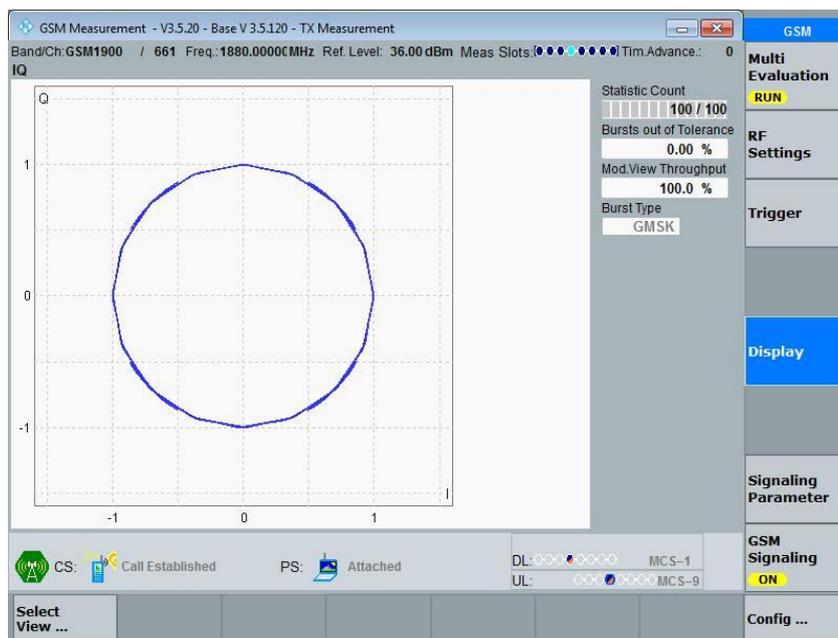


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**3.1.2. Test Band = GSM 1900**

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

**3.1.2.1.1. Test Channel = MCH**



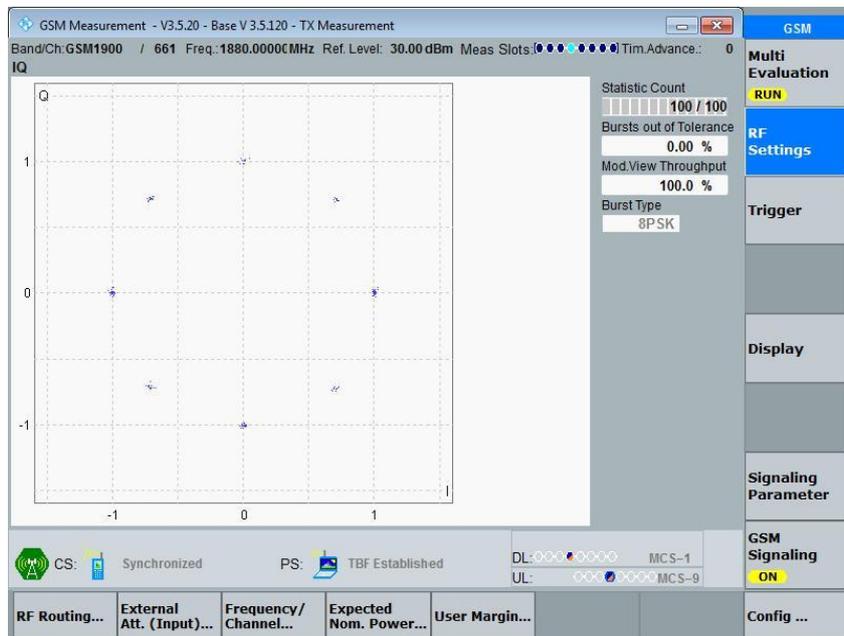
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**3.1.2.2. Test Mode = GSM/TM2**

**3.1.2.2.1. Test Channel = MCH**



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## 4. 26dB Bandwidth and Occupied Bandwidth

### 4.1. Test Result

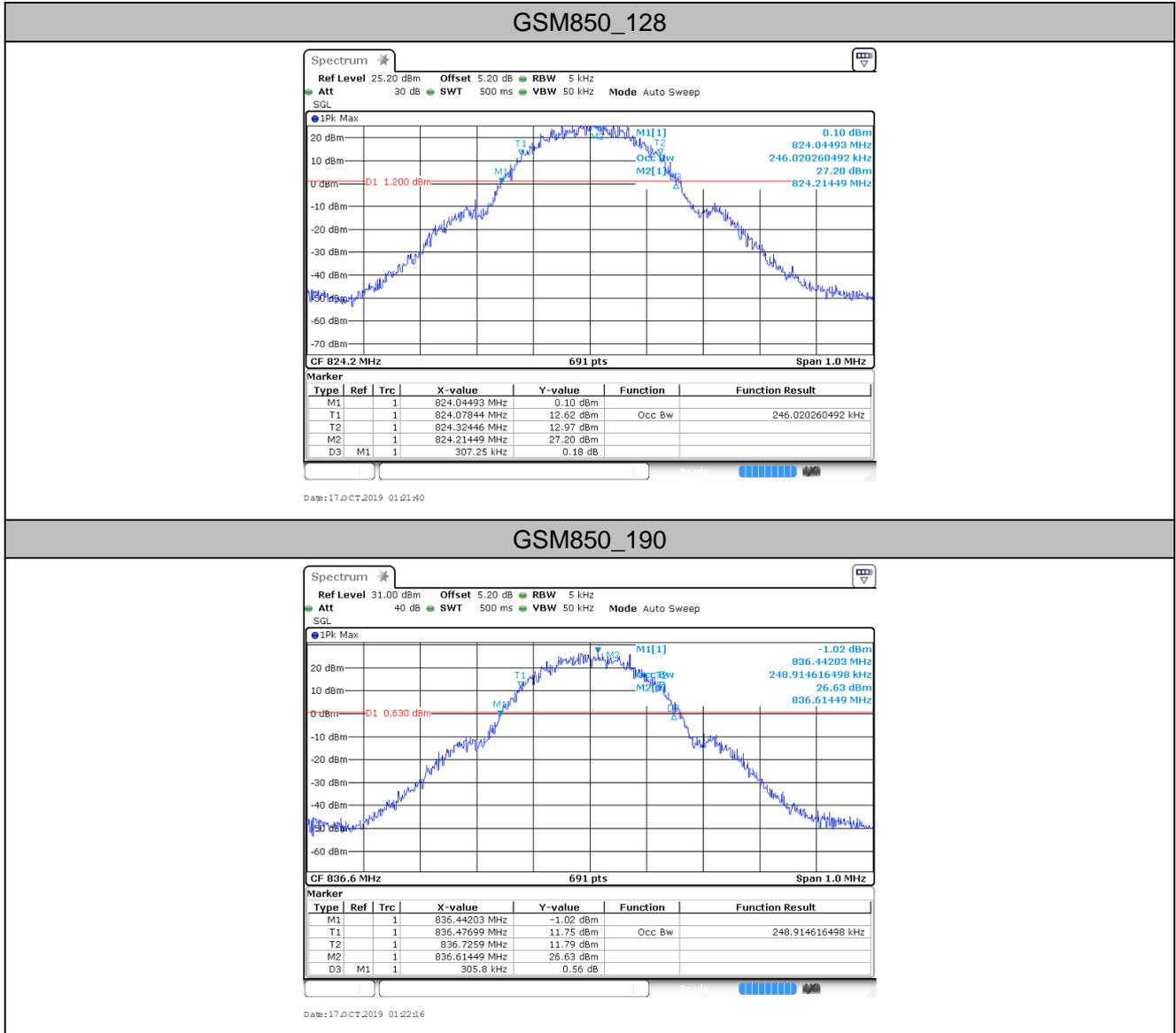
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	246.02	307.25	---	PASS
GSM850	190	248.91	305.80	---	PASS
GSM850	251	248.91	311.59	---	PASS
EGPRS850	128	246.02	295.65	---	PASS
EGPRS850	190	246.02	298.55	---	PASS
EGPRS850	251	244.57	305.80	---	PASS
GSM1900	512	247.47	302.90	---	PASS
GSM1900	661	244.57	314.49	---	PASS
GSM1900	810	244.57	313.04	---	PASS
EGPRS1900	512	246.02	292.75	---	PASS
EGPRS1900	661	248.91	295.65	---	PASS
EGPRS1900	810	247.47	297.10	---	PASS



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**4.2. Test Plots**

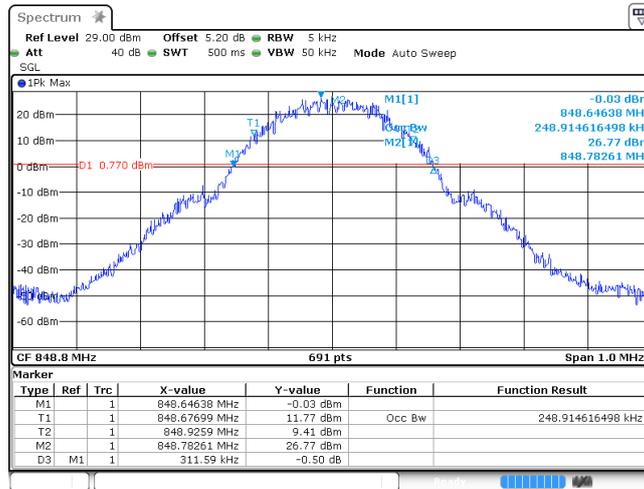


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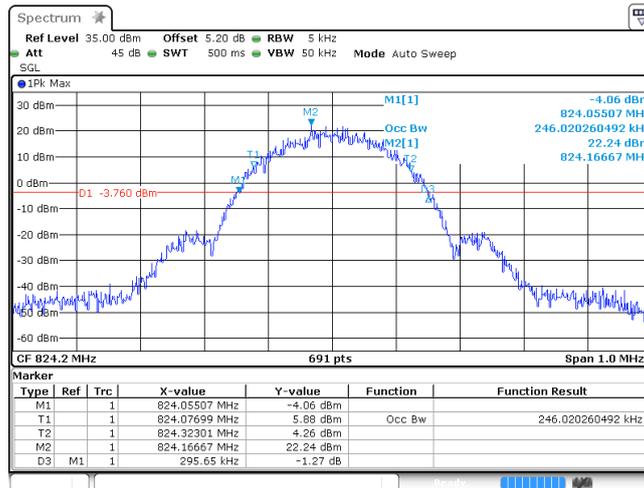


GSM850\_251



Date: 17 OCT 2019 01:22:56

EGPRS850\_128



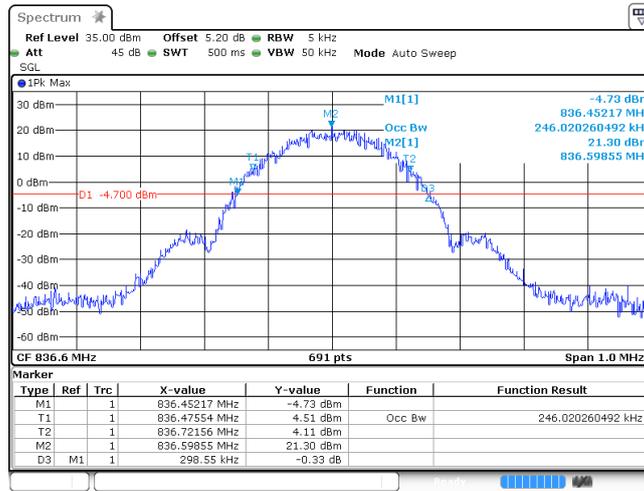
Date: 17 OCT 2019 01:30:17



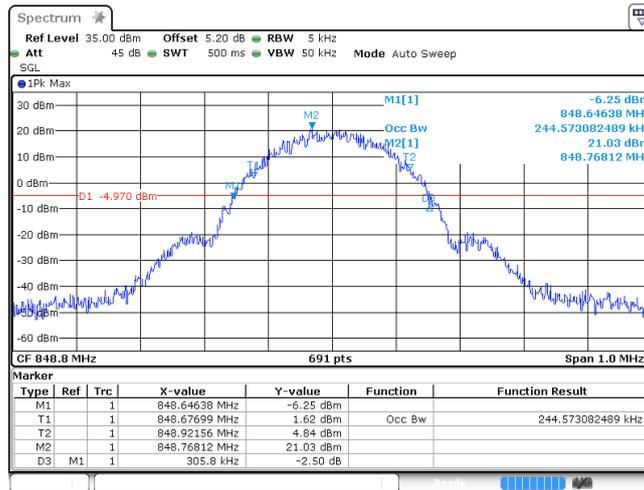
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EGPRS850\_190



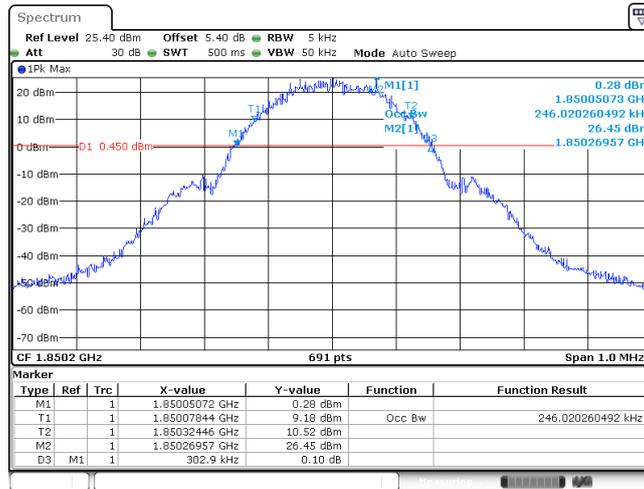
EGPRS850\_251



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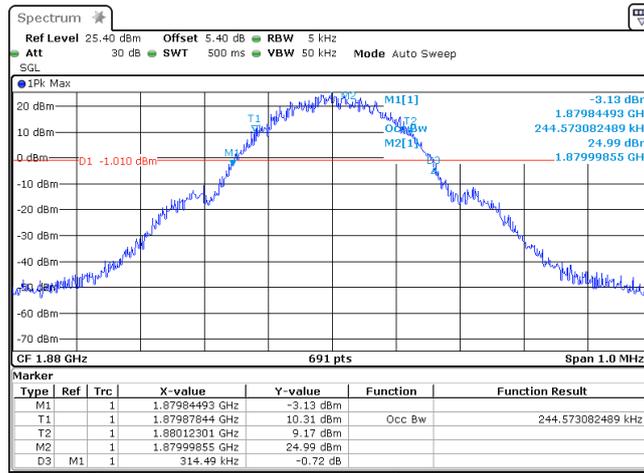


GSM1900\_512



Date: 17 OCT 2019 00:58:12

GSM1900\_661



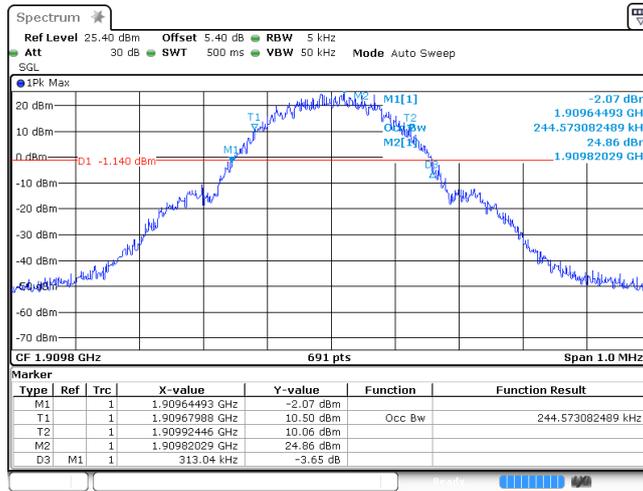
Date: 17 OCT 2019 00:58:44



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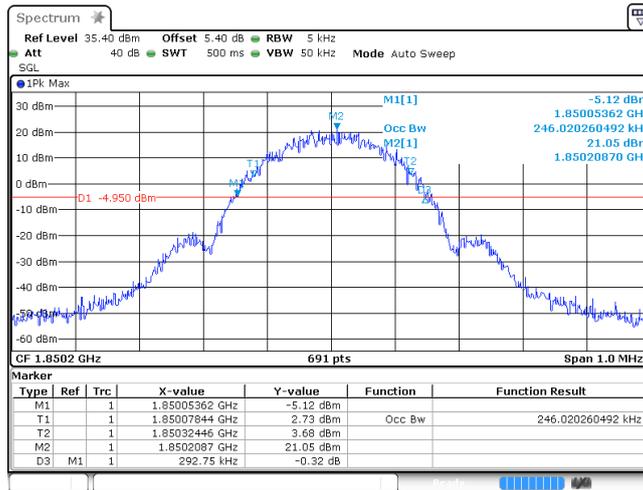


GSM1900\_810



Date: 17 OCT 2019 00:59:14

EGPRS1900\_512

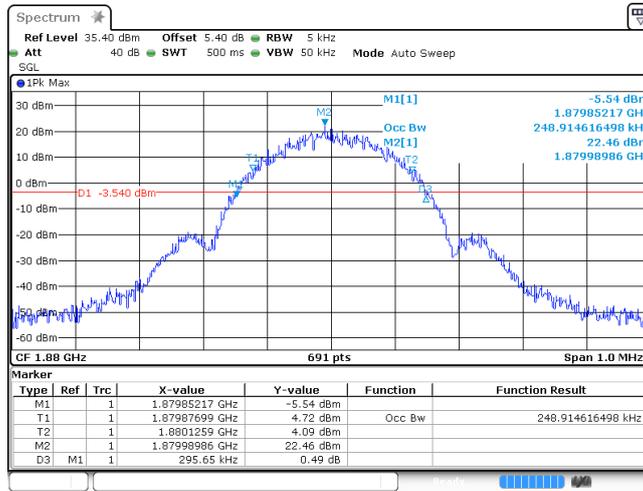


Date: 17 OCT 2019 01:12:38



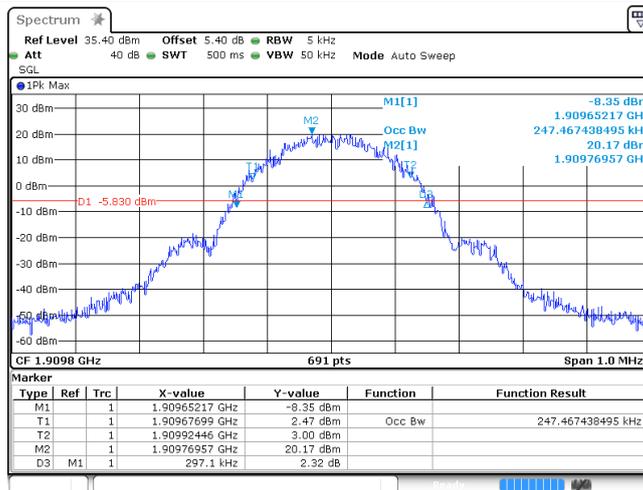
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EGPRS1900\_661



Date: 17 OCT 2019 01:13:19

EGPRS1900\_810



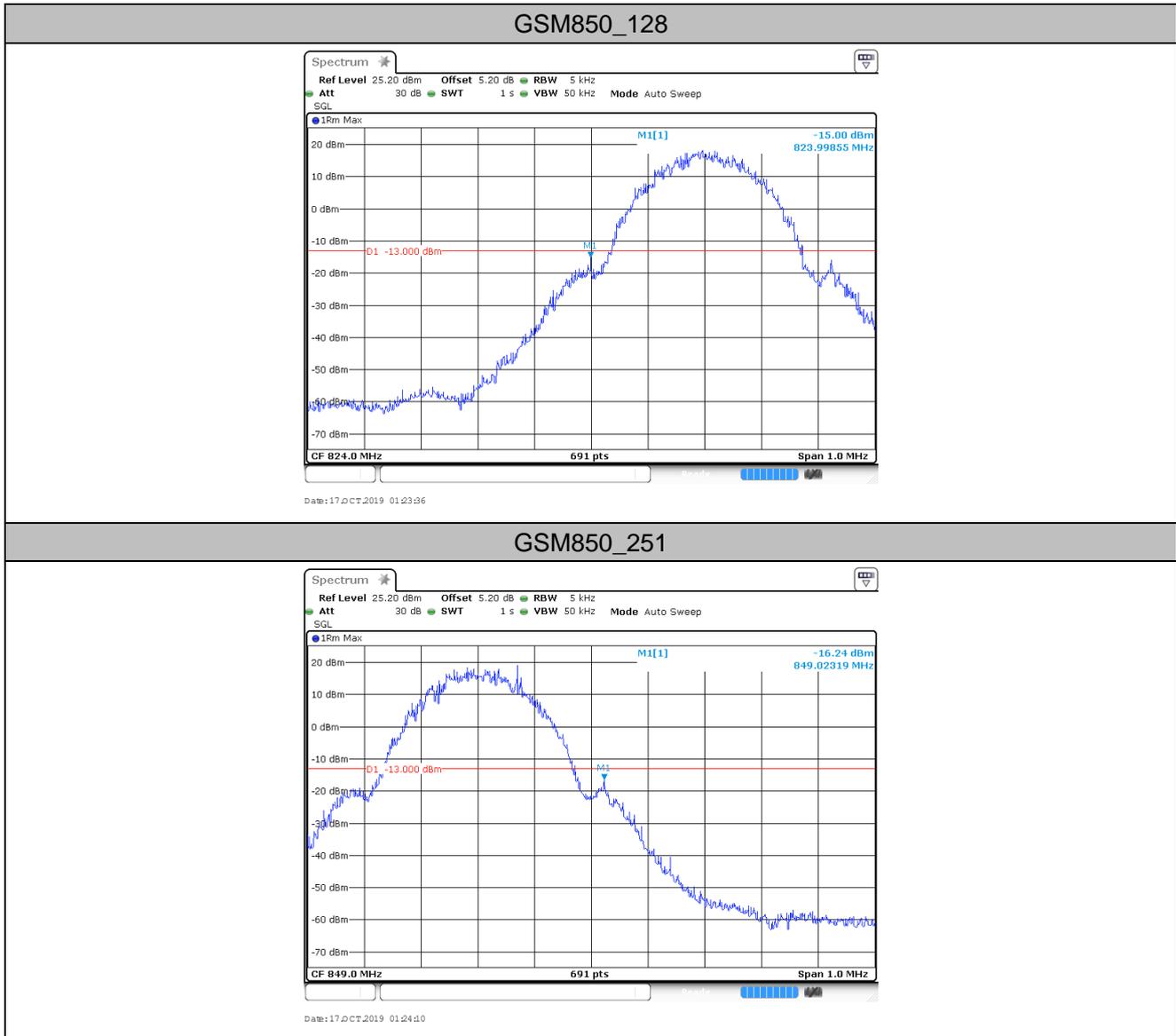
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## 5. Band Edge Compliance

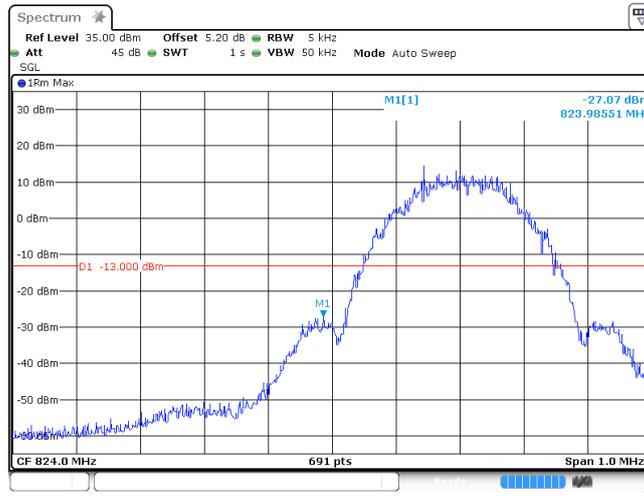
### 5.1. Test Plots



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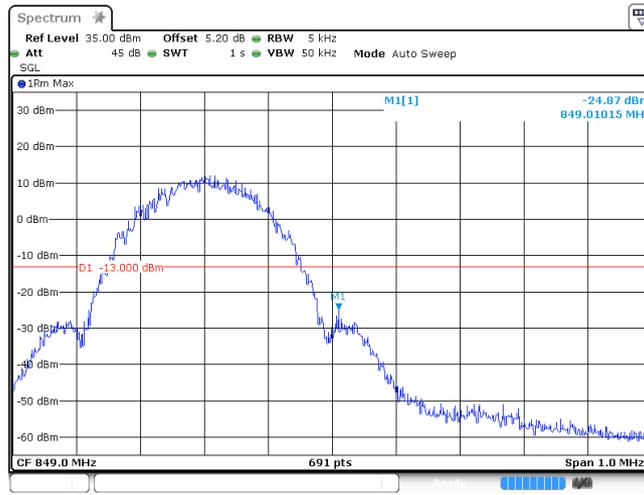


**EGPRS850\_128**



Date: 17 OCT 2019 01:31:53

**EGPRS850\_251**

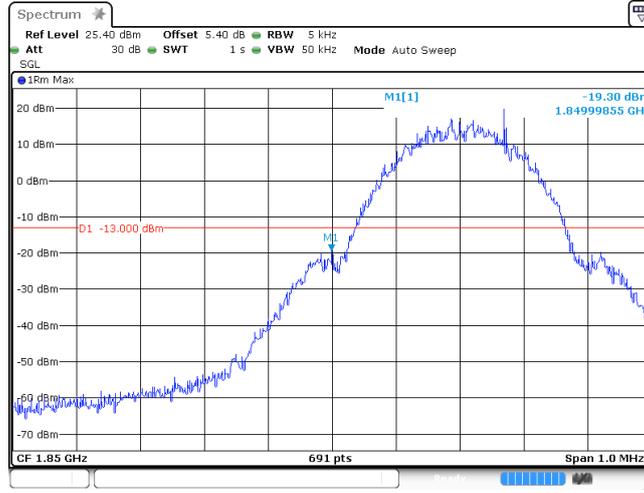


Date: 17 OCT 2019 01:32:27

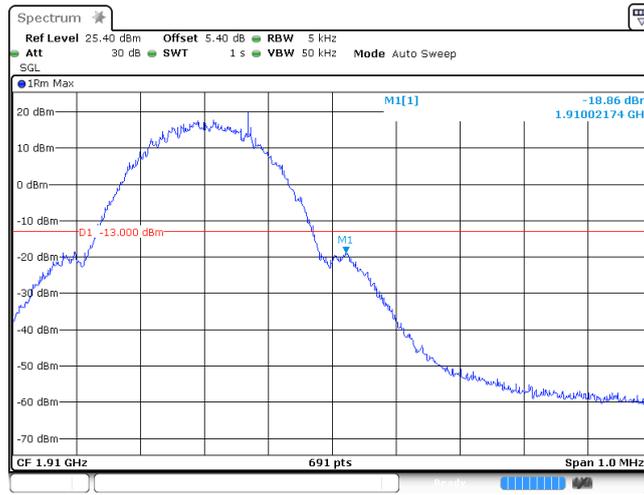


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**GSM1900\_512**



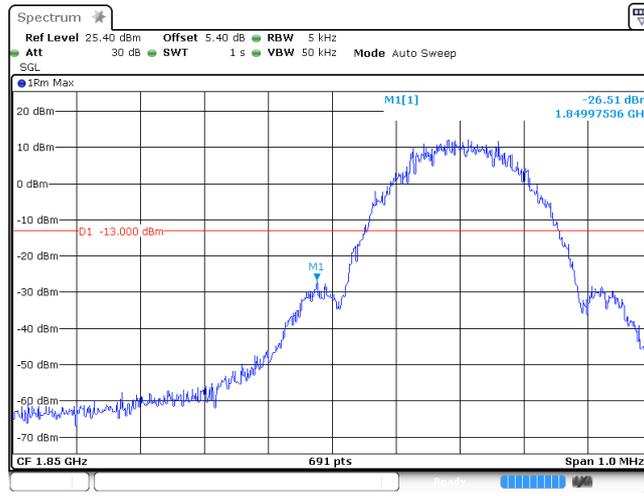
**GSM1900\_810**



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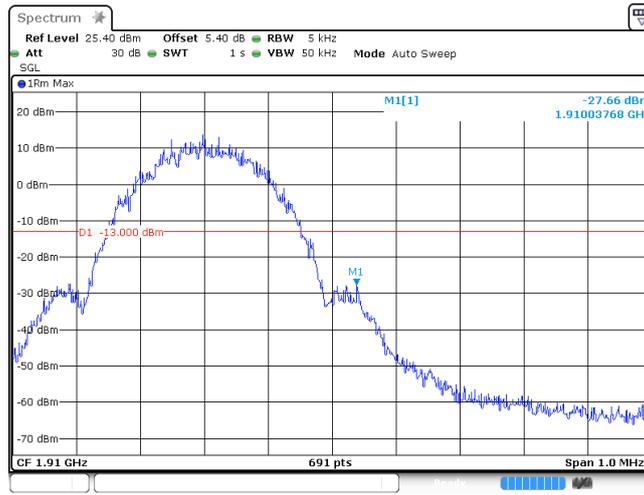
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**EGPRS1900\_512**



Date: 17 OCT 2019 01:14:41

**EGPRS1900\_810**



Date: 17 OCT 2019 01:15:14



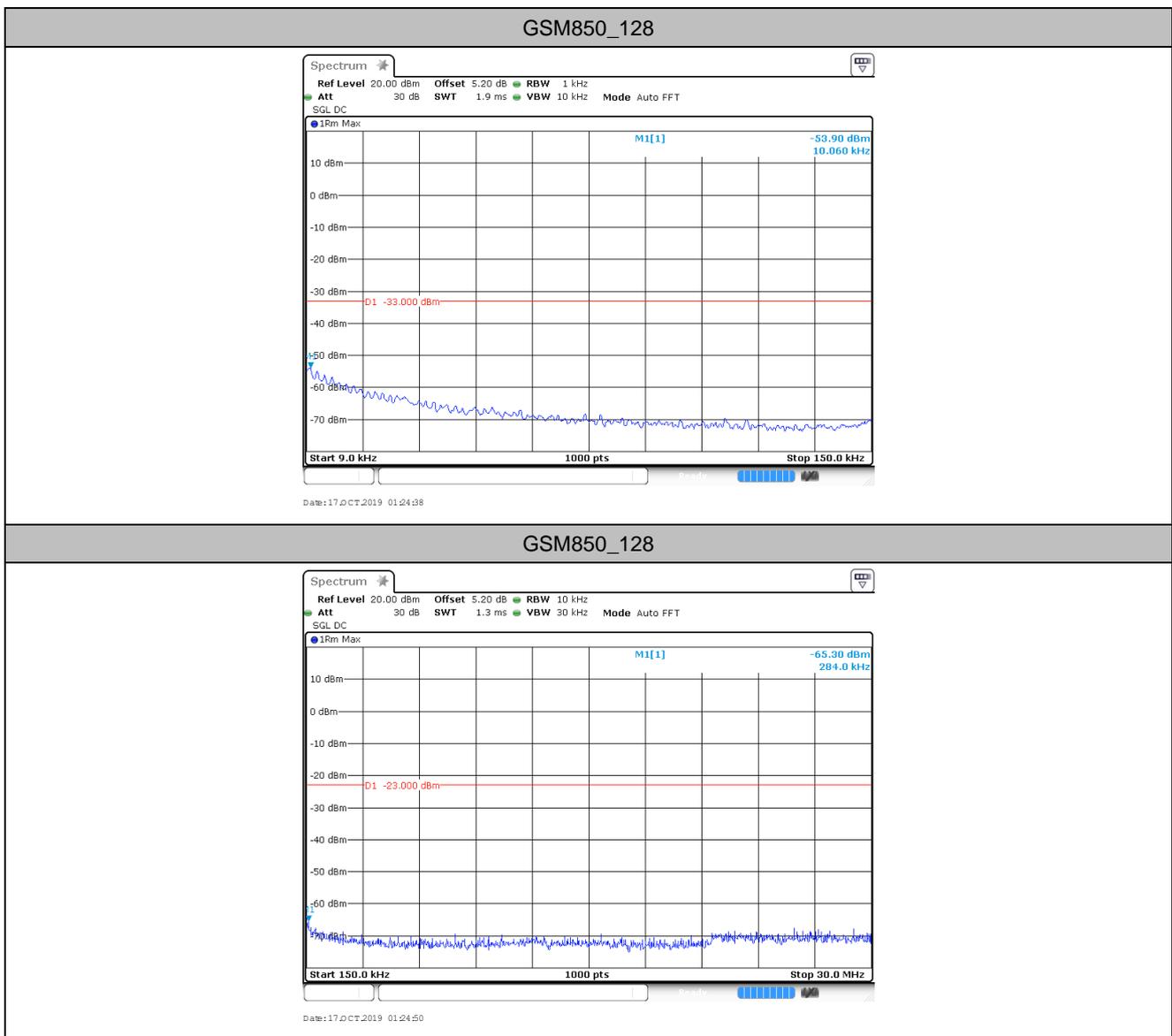
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## 6. Spurious Emission at Antenna Terminal

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.

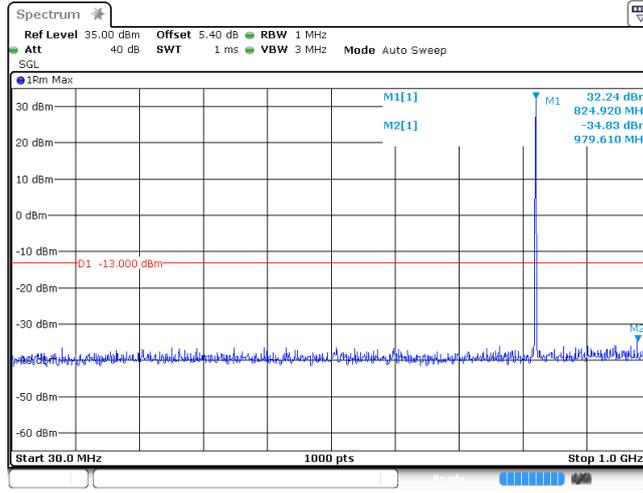
Remark2: only the worst case data displayed in this report.

### 6.1. Test Plots



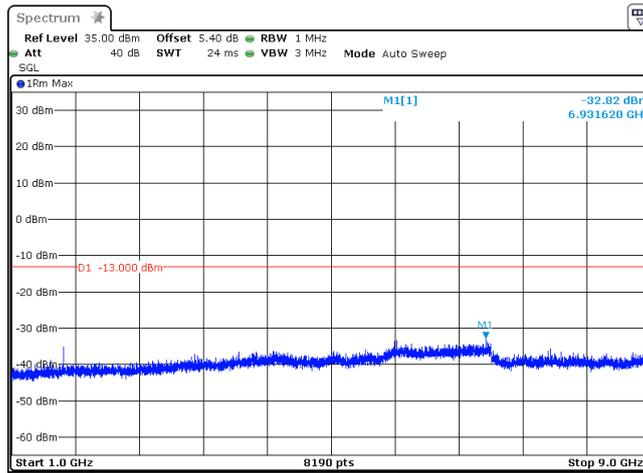
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GSM850\_128



Date: 17 OCT 2019 01:25:04

GSM850\_128

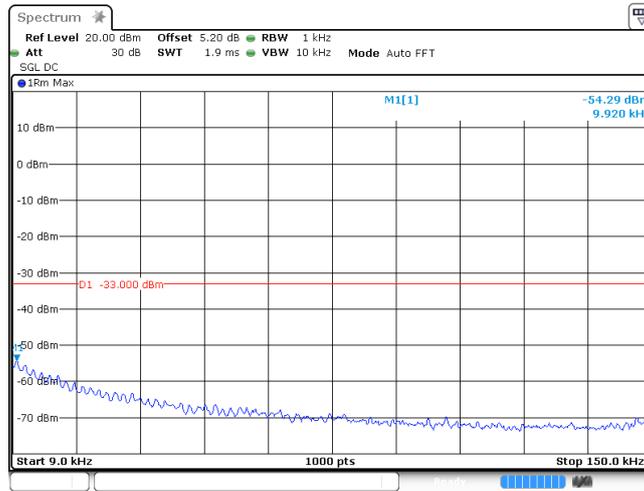


Date: 17 OCT 2019 01:25:16



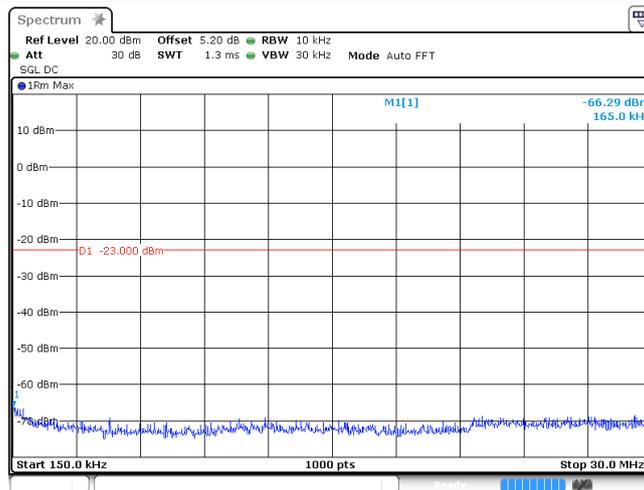
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GSM850\_190



Date: 17 OCT 2019 01:25:36

GSM850\_190

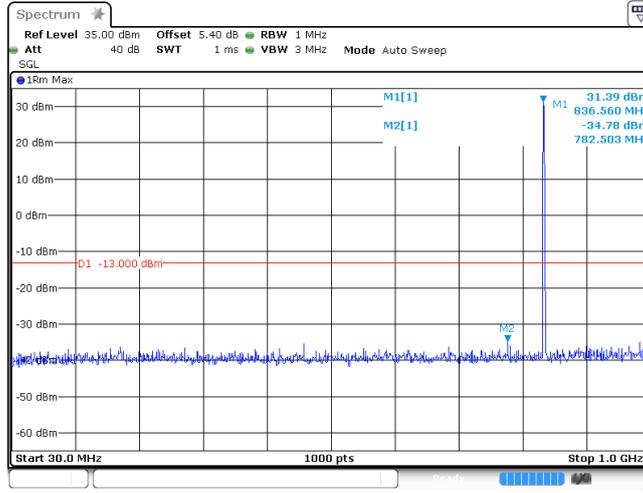


Date: 17 OCT 2019 01:25:48

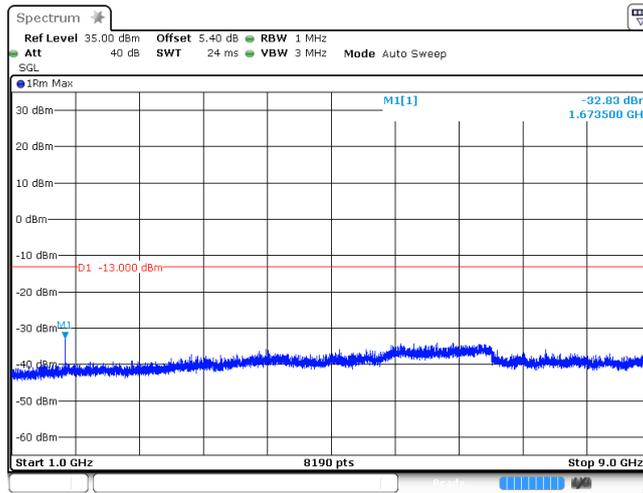


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GSM850\_190

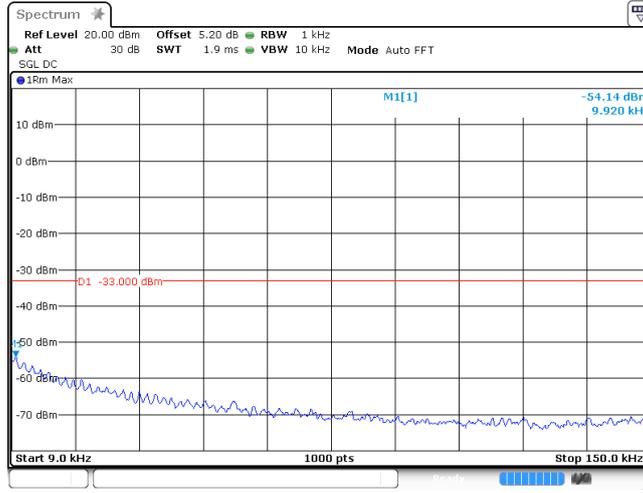


GSM850\_190



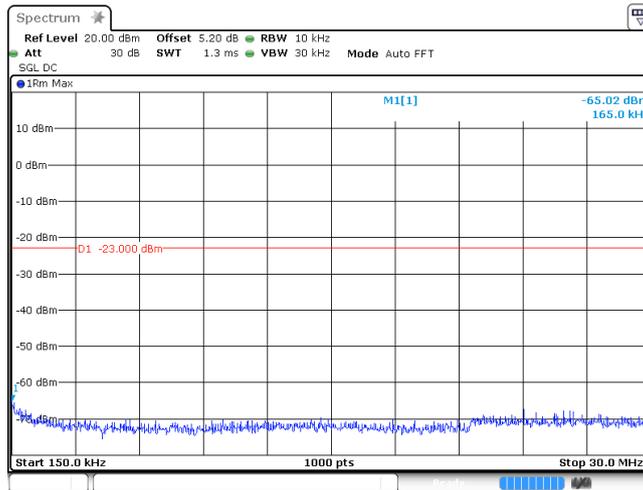
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GSM850\_251



Date: 17 OCT 2019 01:26:34

GSM850\_251

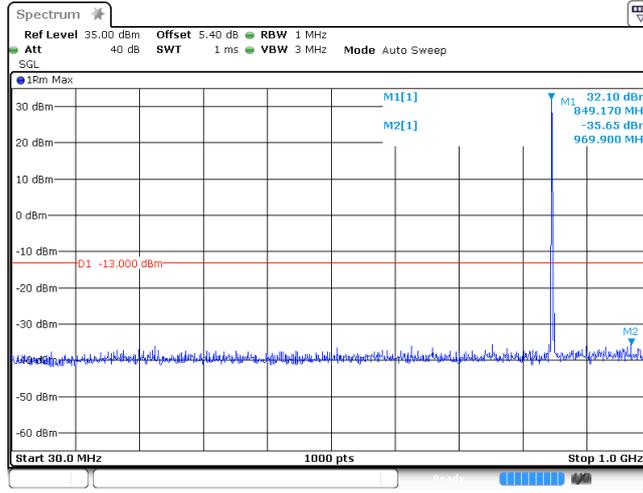


Date: 17 OCT 2019 01:26:46



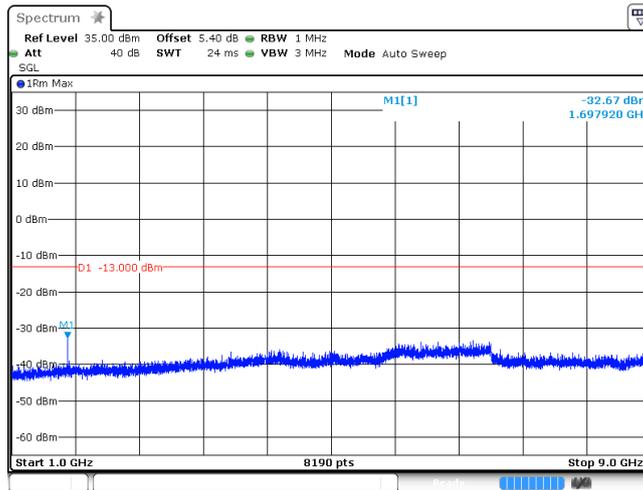
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GSM850\_251



Date: 17 OCT 2019 01:27:50

GSM850\_251

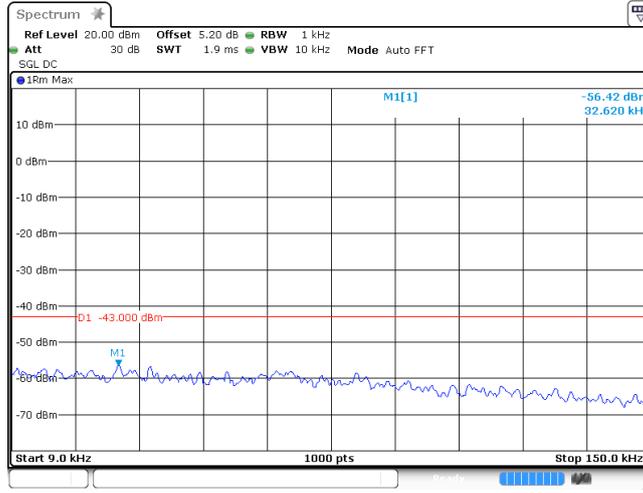


Date: 17 OCT 2019 01:27:12



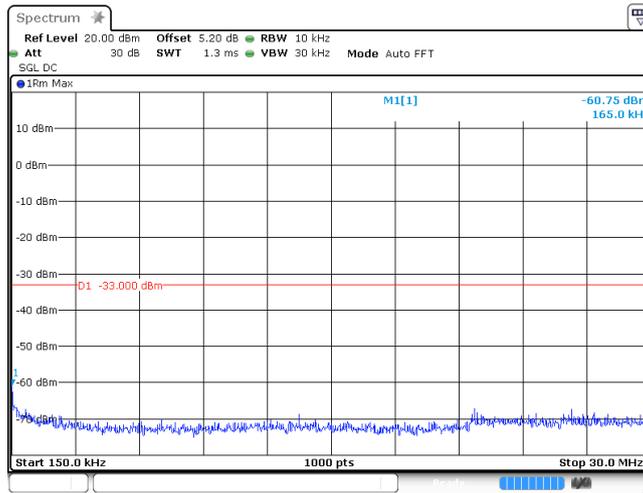
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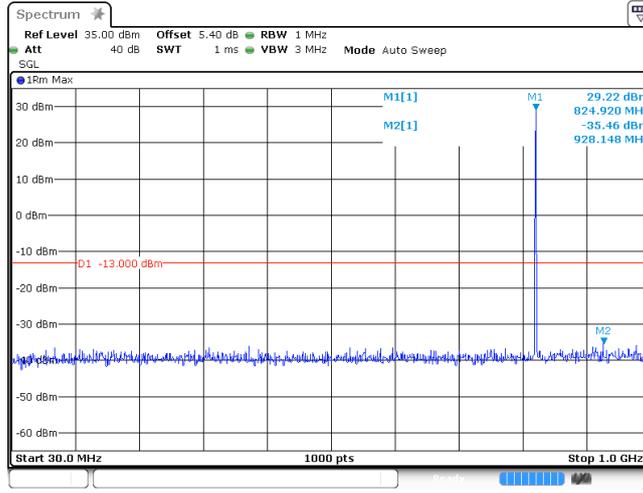
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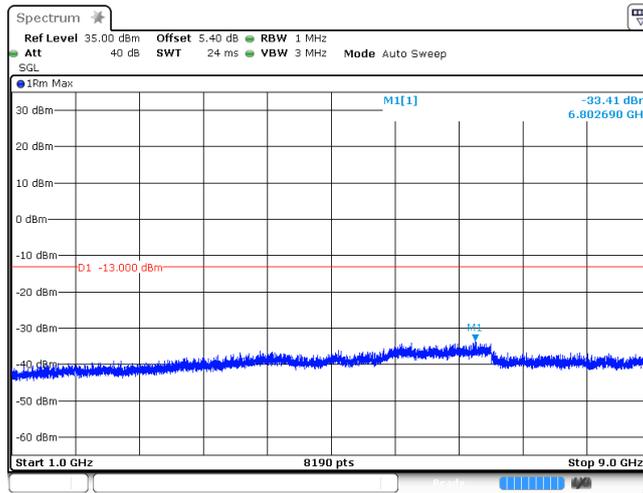


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Date: 17 OCT 2019 01:33:19

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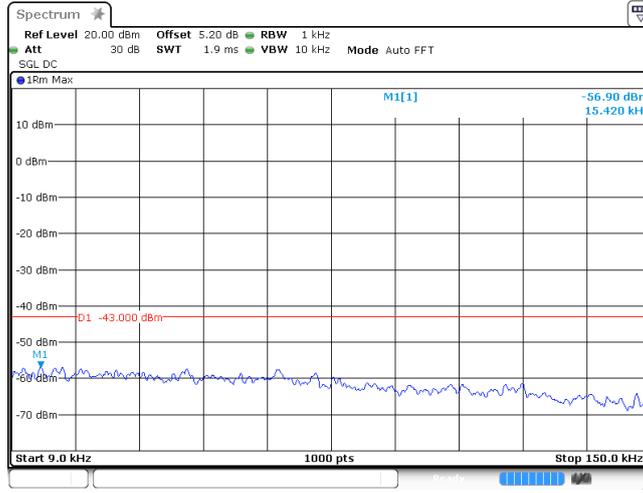


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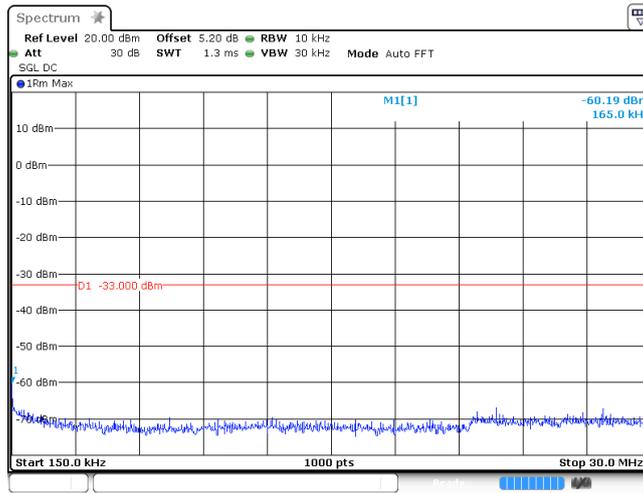
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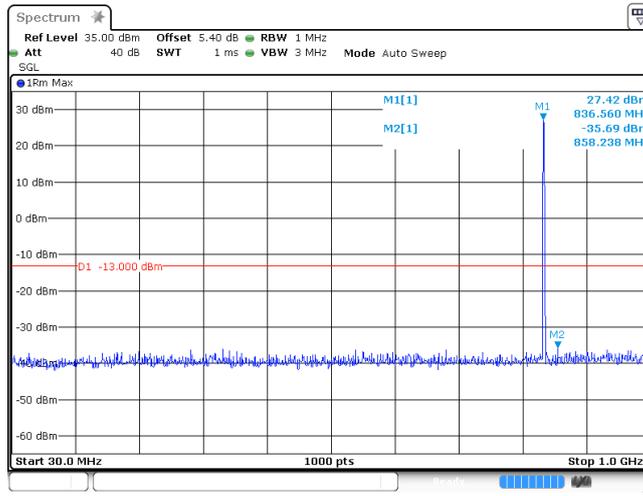
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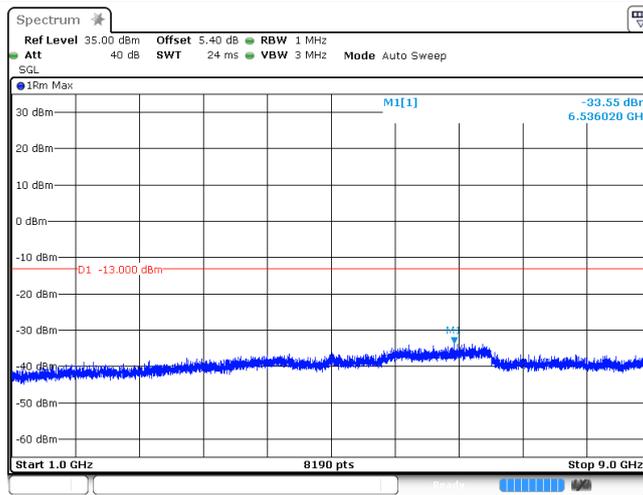
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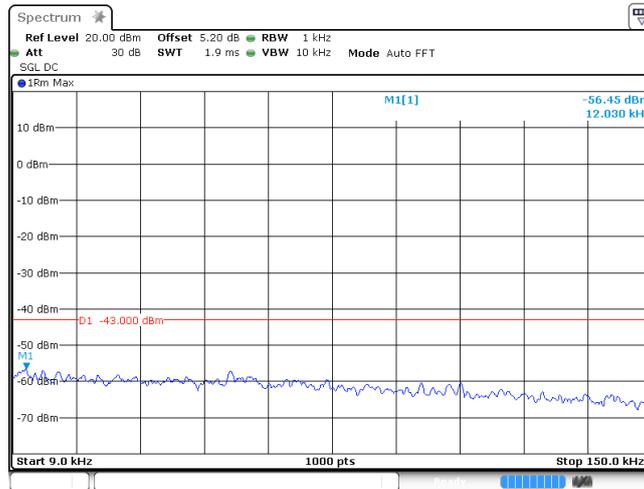
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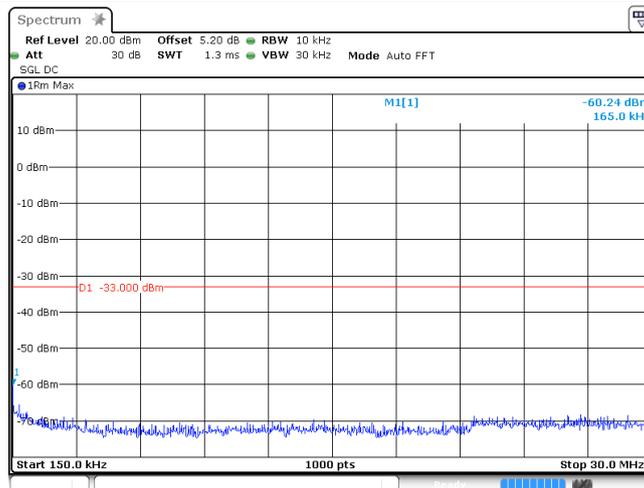
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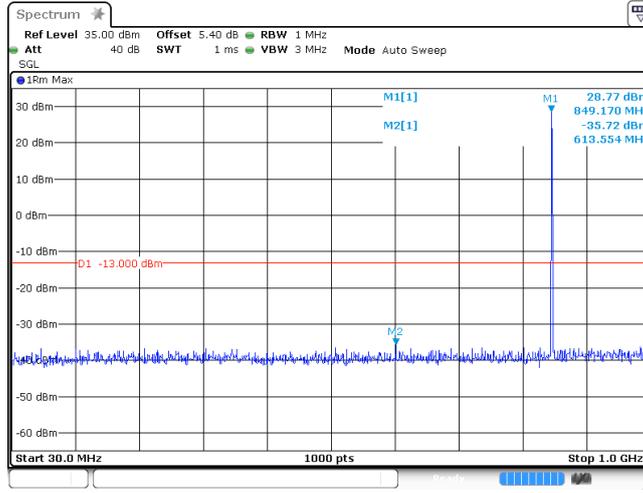
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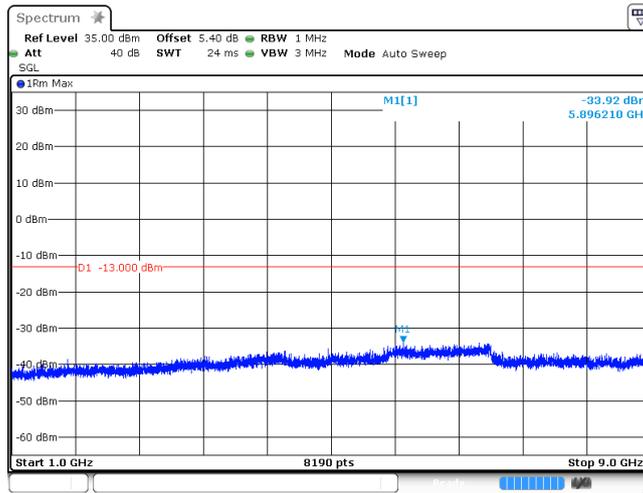
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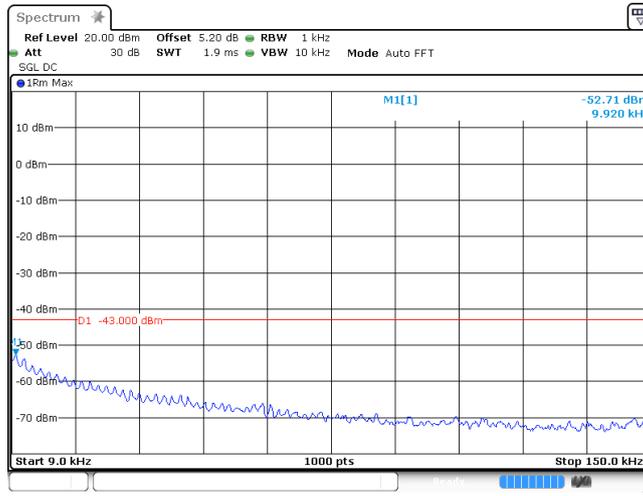
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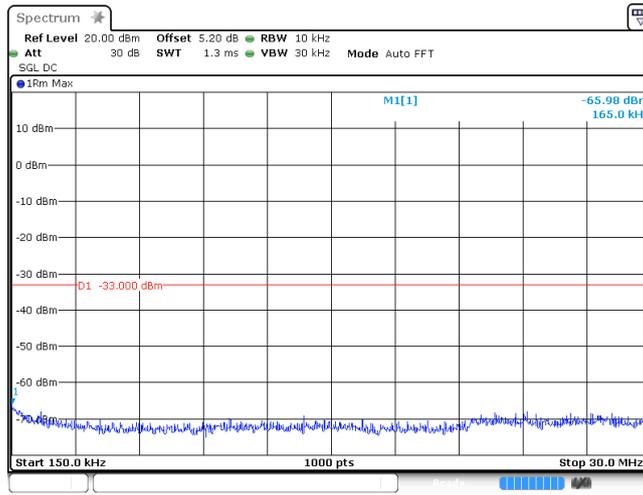
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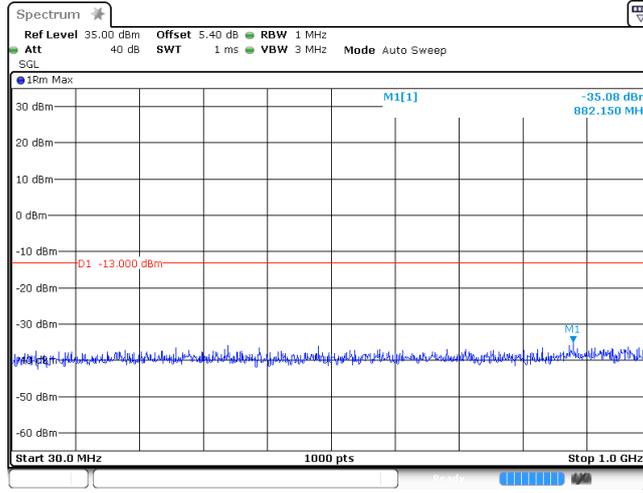


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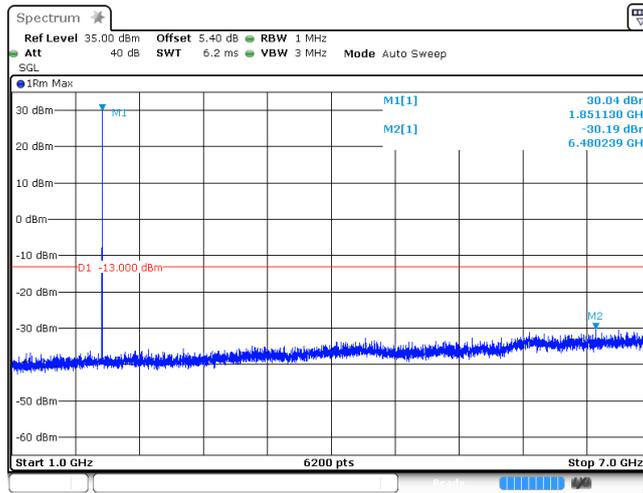
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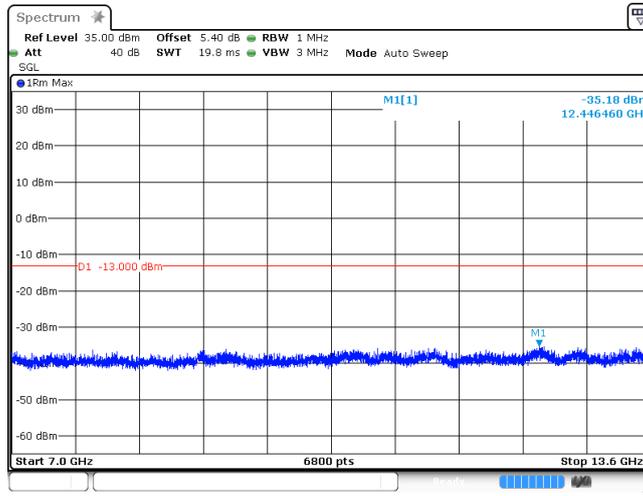


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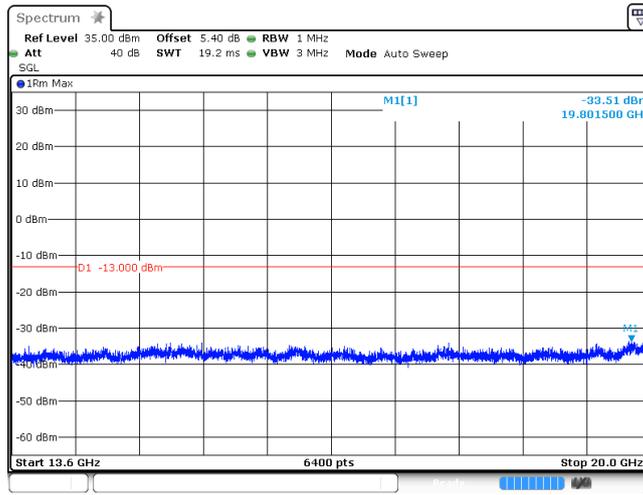
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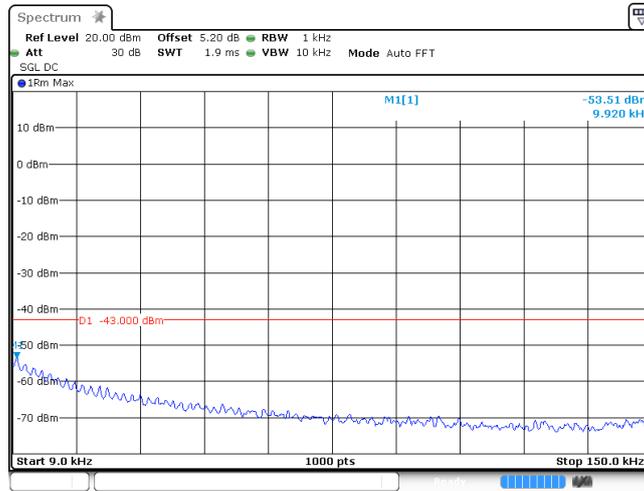
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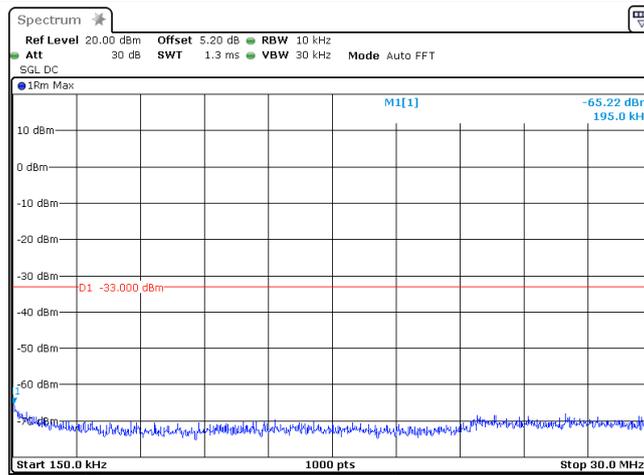
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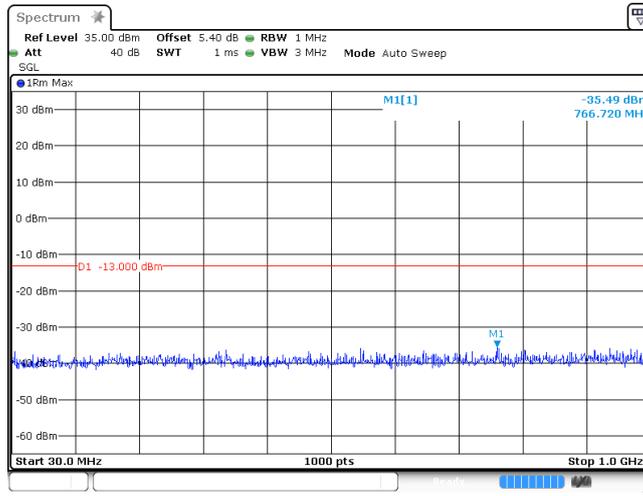
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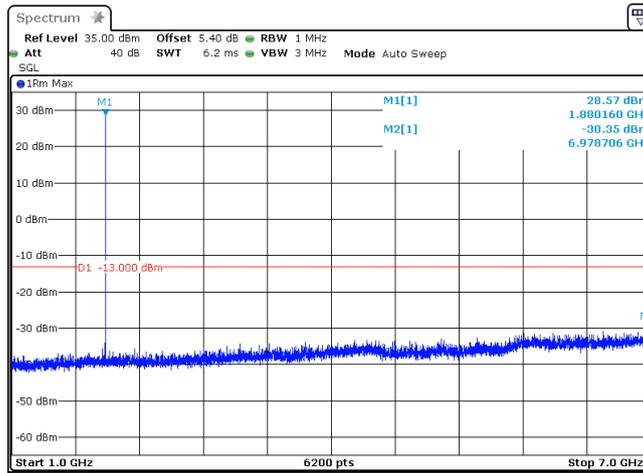


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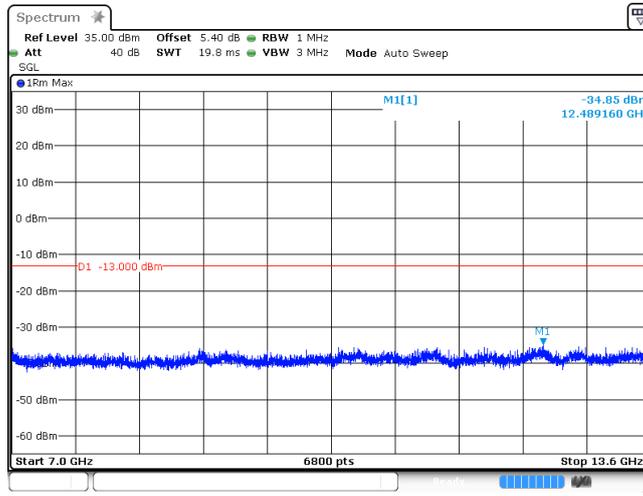
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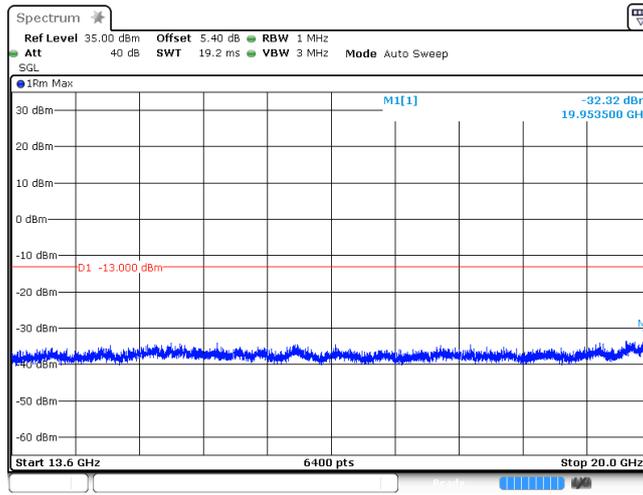


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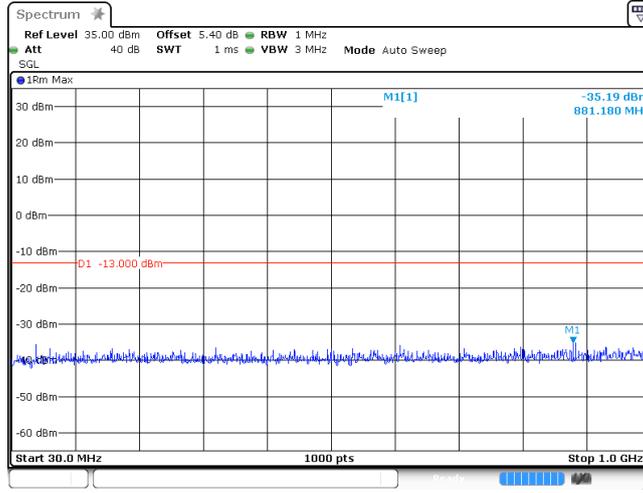
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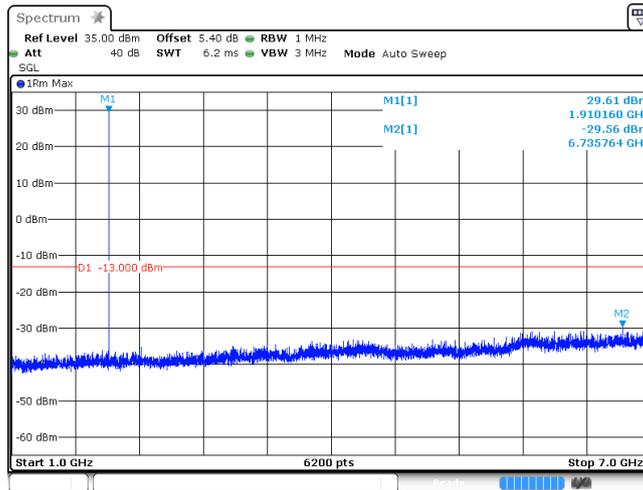


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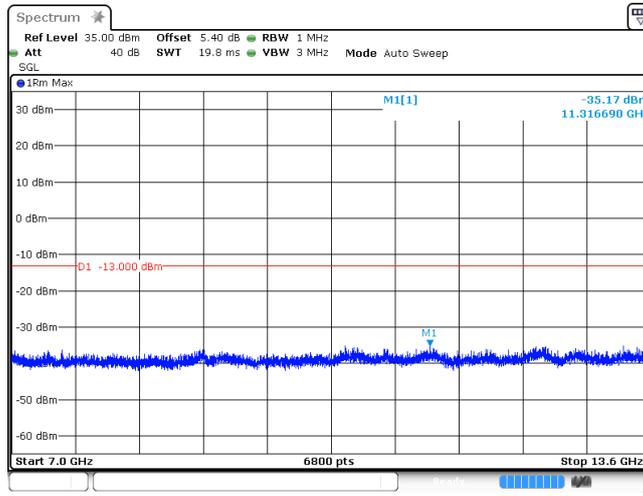


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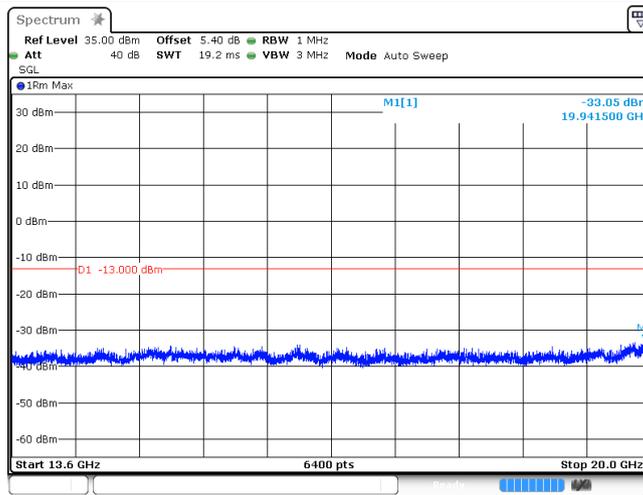
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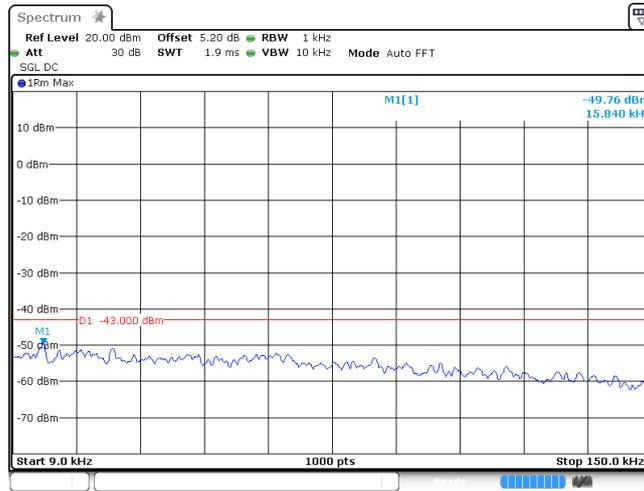


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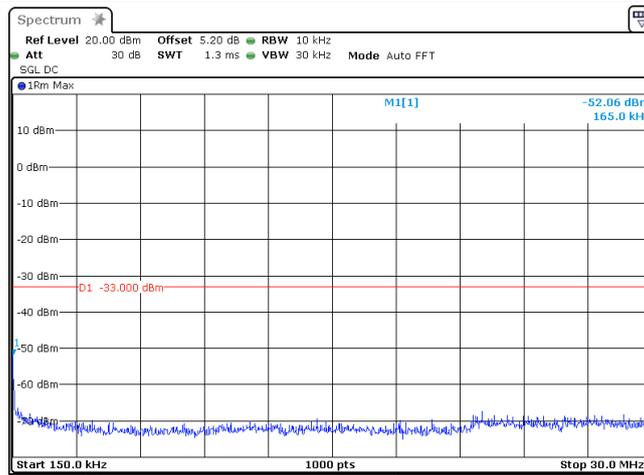
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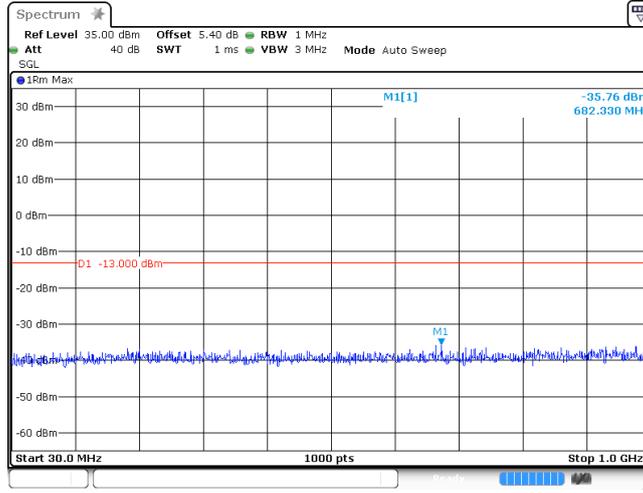


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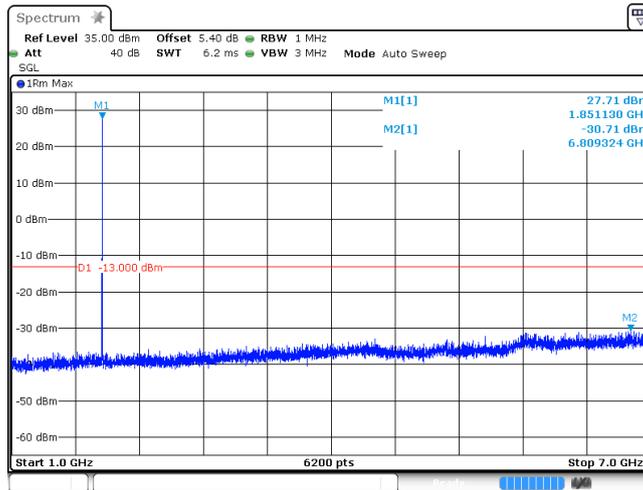
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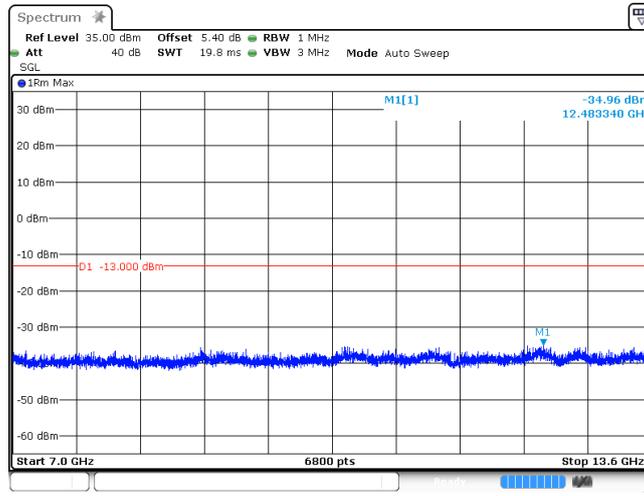


Date: 17 OCT 2019 01:16:18



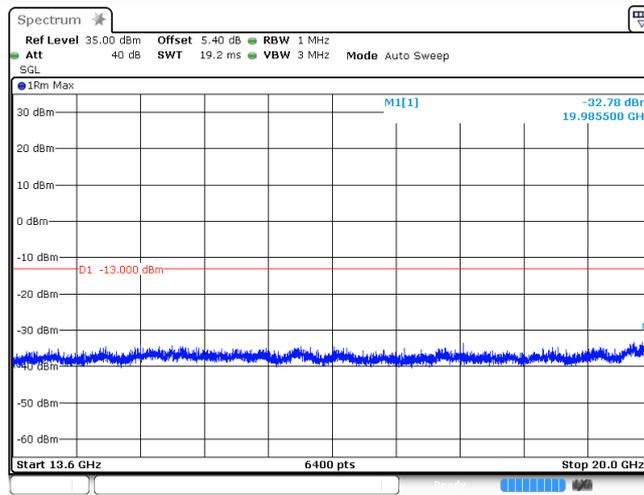
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EGPRS1900\_512



Date: 17 OCT 2019 01:16:30

EGPRS1900\_512



Date: 17 OCT 2019 01:16:42

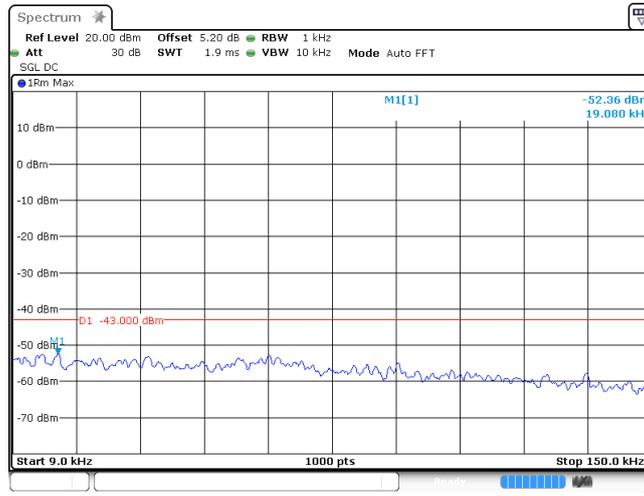


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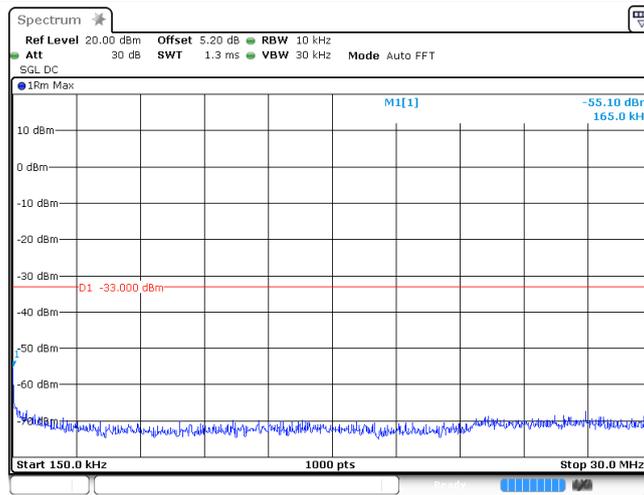
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中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

EGPRS1900\_661



Date: 17 OCT 2019 01:17:50

EGPRS1900\_661



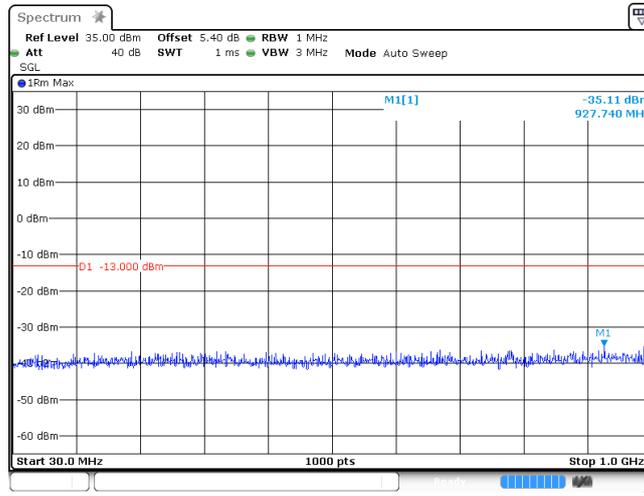
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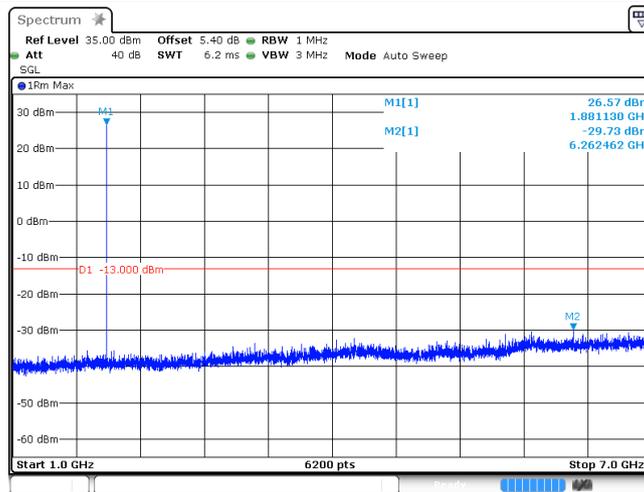


EGPRS1900\_661



Date: 17 OCT 2019 01:17:24

EGPRS1900\_661



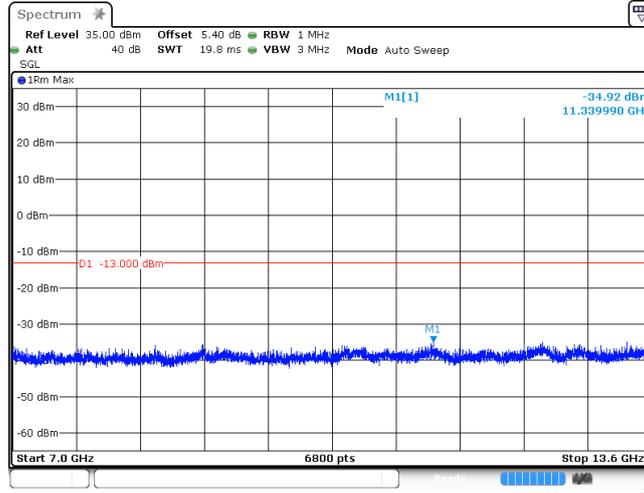
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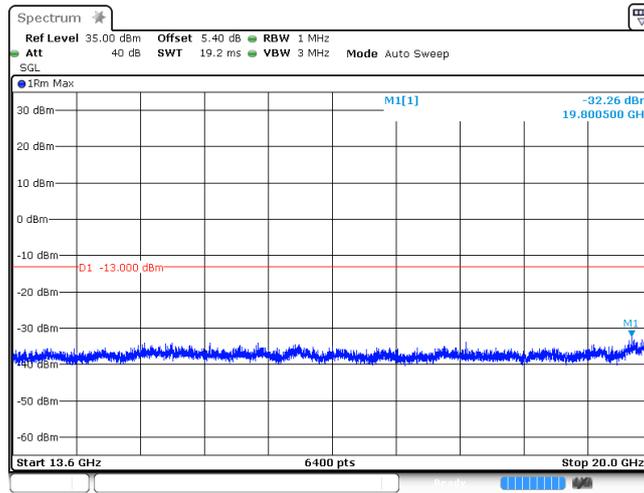
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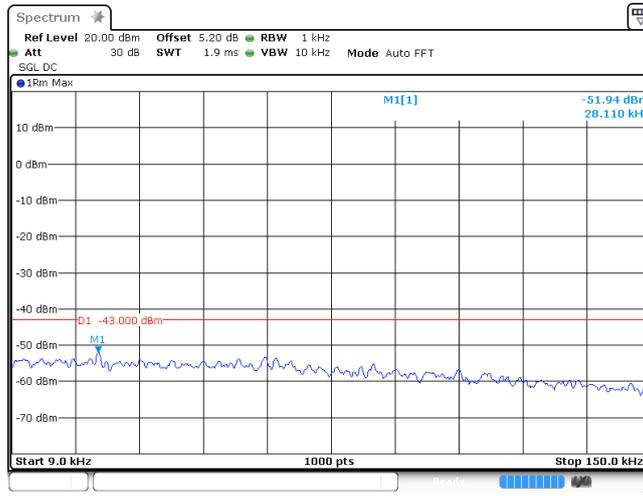
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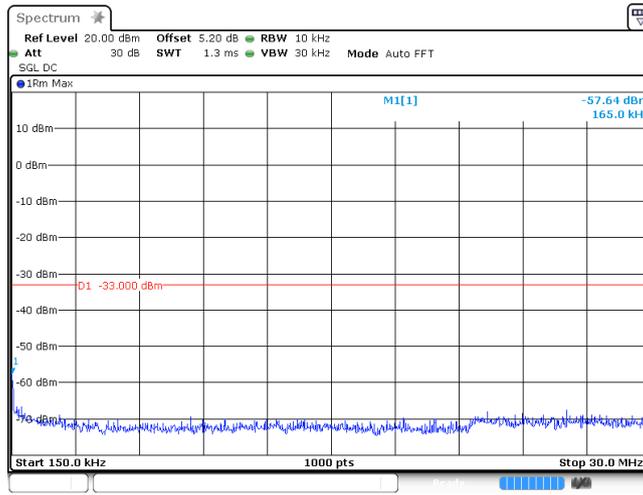
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EGPRS1900\_810



Date: 17 OCT 2019 01:18:18

EGPRS1900\_810



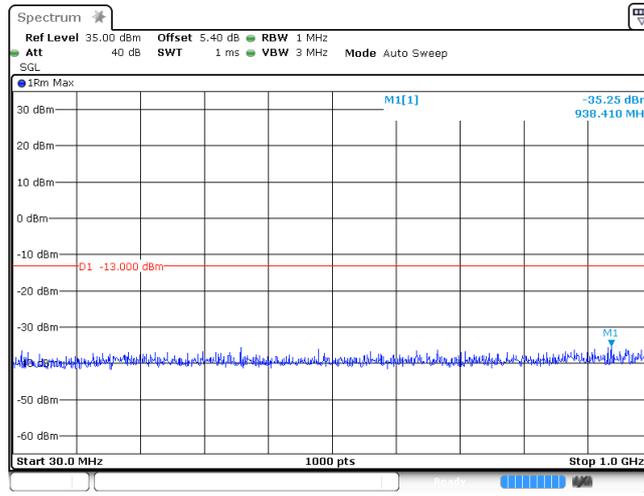
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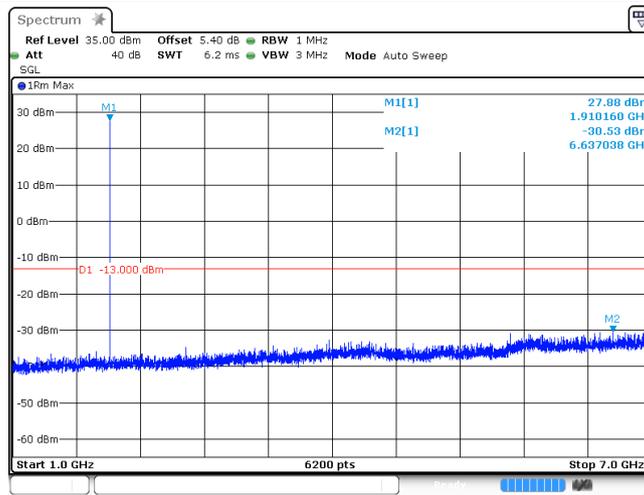
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Date: 17 OCT 2019 01:18:42

EGPRS1900\_810

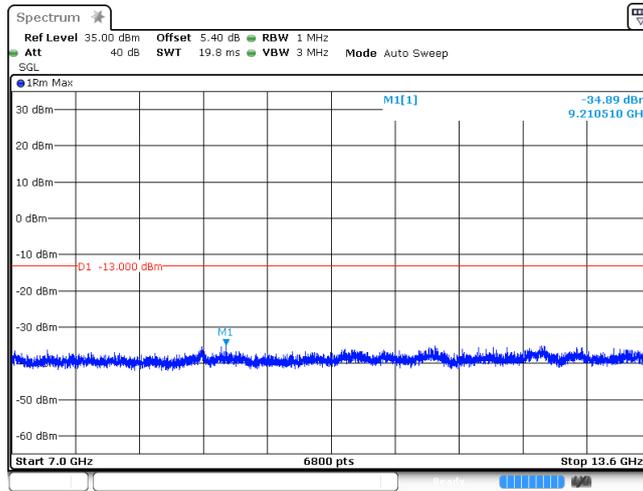


Date: 17 OCT 2019 01:18:55



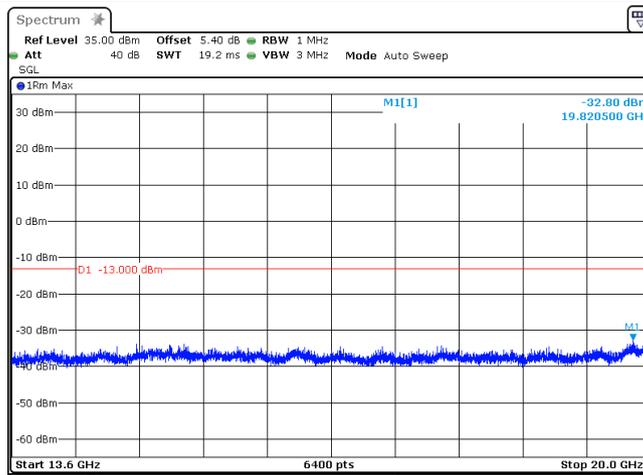
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Date: 17 OCT 2019 01:19:07

EGPRS1900\_810



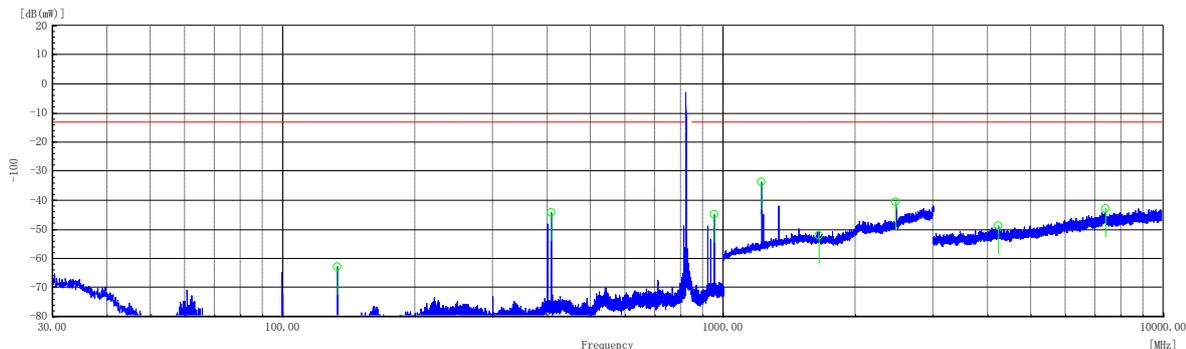
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## 7. Field Strength of Spurious Radiation

### 7.1. GSM850 L channel (horizontal)

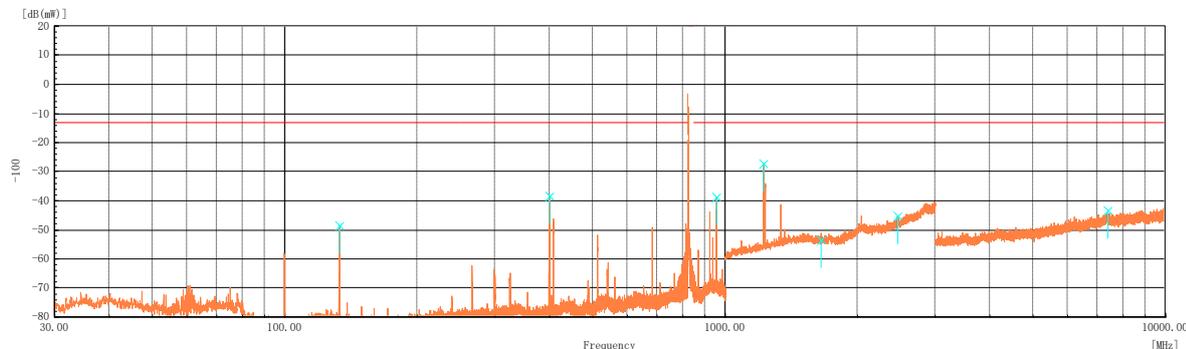


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
133.1	H	32.3	-63	-13	50	177	225.2
408.05	H	51.2	-44.1	-13	31.1	143	225.2
957	H	50.5	-44.8	-13	31.8	155	269.7
1223.5	H	61.4	-33.9	-13	20.9	130	180.6
1648.5	H	43.0	-52.3	-13	39.3	143	315.5
2473	H	54.7	-40.6	-13	27.6	149	180.6
4211	H	46.3	-49	-13	36	126	92
7417.501	H	52.2	-43.1	-13	30.1	161	315.5



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**7.2. GSM850 L channel (vertical)**

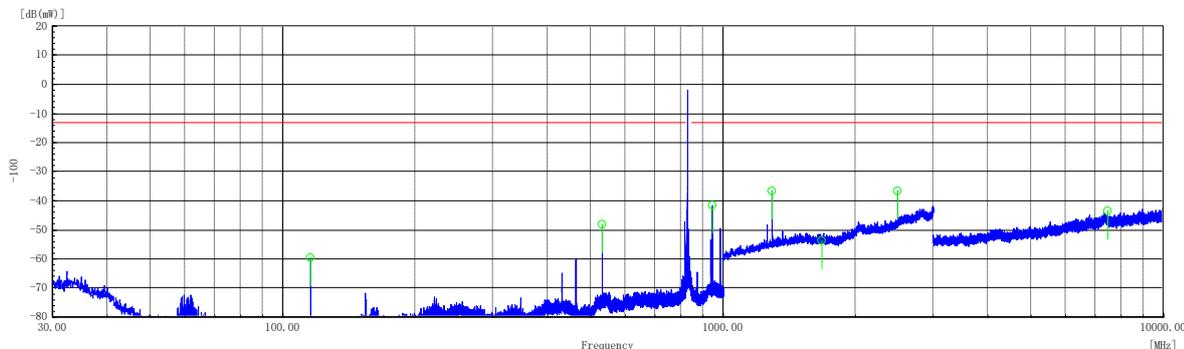


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
133.3	V	46.6	-48.7	-13	35.7	161	269.7
398.55	V	56.8	-38.5	-13	25.5	112	0
956.95	V	56.7	-38.6	-13	25.6	125	179.4
1223	V	68.1	-27.2	-13	14.2	145	224.7
1648.5	V	41.8	-53.5	-13	40.5	116	89.6
2473	V	50.2	-45.1	-13	32.1	130	315.5
7405.501	V	51.9	-43.4	-13	30.4	113	44.6



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**7.3. GSM850 M channel (horizontal)**

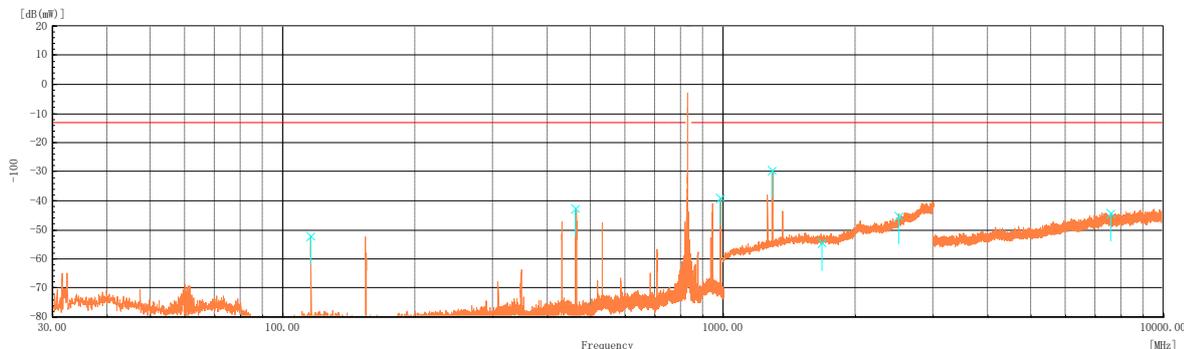


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
115.65	H	35.6	-59.7	-13	46.7	126	180.6
531.3	H	47.1	-48.2	-13	35.2	109	270.1
946.15	H	53.8	-41.5	-13	28.5	148	225.5
1293.5	H	58.5	-36.8	-13	23.8	161	225.5
1673	H	41.6	-53.7	-13	40.7	110	45.4
2492	H	58.5	-36.8	-13	23.8	160	225.5
7485.001	H	51.5	-43.8	-13	30.8	138	270.1



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**7.4. GSM850 M channel (vertical)**

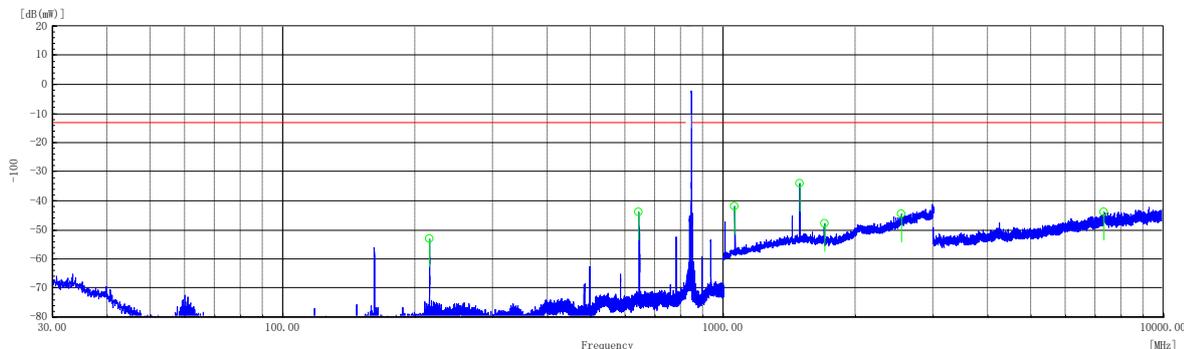


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
115.65	V	43.1	-52.2	-13	39.2	148	134.5
462.55	V	52.7	-42.6	-13	29.6	135	44.8
985.3	V	56.4	-38.9	-13	25.9	175	224.7
1293	V	65.9	-29.4	-13	16.4	100	134.5
1673	V	41.0	-54.3	-13	41.3	141	0.2
2509.5	V	50.1	-45.2	-13	32.2	150	315
7574.001	V	51.2	-44.1	-13	31.1	142	224.7



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**7.5. GSM850 H channel (horizontal)**

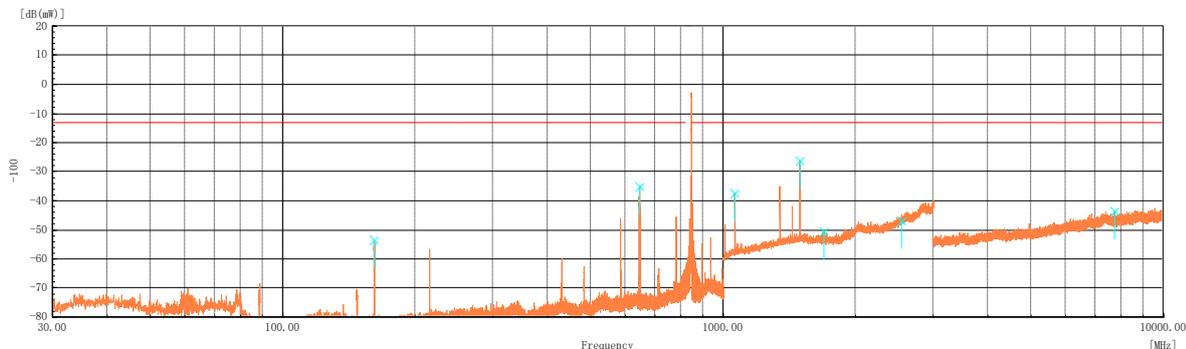


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
215.3	H	42.2	-53.1	-13	40.1	145	225
644.55	H	51.3	-44	-13	31	175	270
1064	H	53.2	-42.1	-13	29.1	120	225
1493.5	H	61.2	-34.1	-13	21.1	145	225
1698	H	47.3	-48	-13	35	139	225
2546	H	50.8	-44.5	-13	31.5	111	45
7340.001	H	51.2	-44.1	-13	31.1	173	135.1



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**7.6. GSM850 H channel (vertical)**

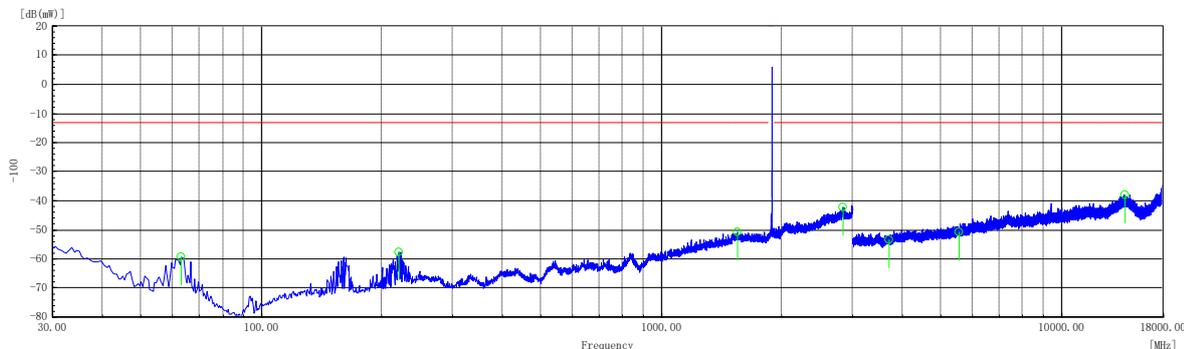


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
161.45	V	41.9	-53.4	-13	40.4	175	314.9
645.9	V	60.3	-35	-13	22	166	179.6
1063.5	V	57.9	-37.4	-13	24.4	151	134.7
1494	V	69.0	-26.3	-13	13.3	131	179.6
1697.5	V	44.9	-50.4	-13	37.4	125	224.2
2546.5	V	48.3	-47	-13	34	155	269.6
7726.001	V	51.7	-43.6	-13	30.6	134	89.5



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**7.7. GSM1900 L channel (horizontal)**

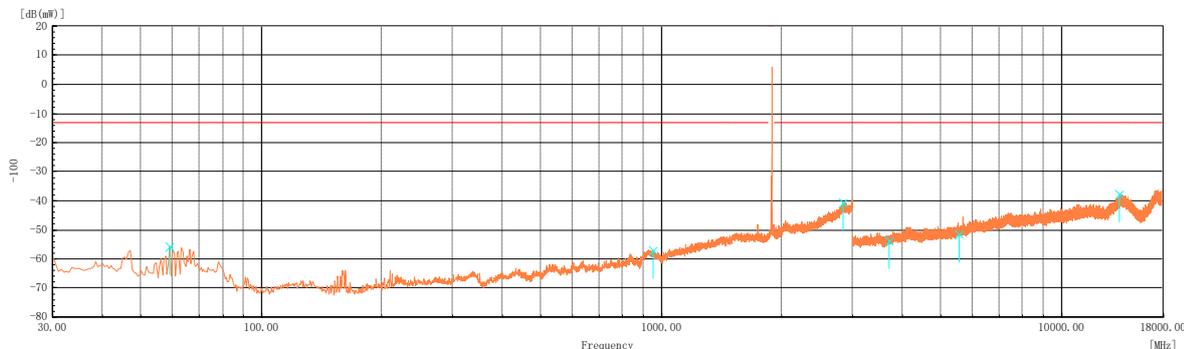


Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
63	H	35.9	-59.4	-13	46.4	116	315.3
220.5	H	37.8	-57.5	-13	44.5	166	135.9
1548	H	44.5	-50.8	-13	37.8	166	315.3
2847	H	52.9	-42.4	-13	29.4	109	45.3
3700.5	H	41.9	-53.4	-13	40.4	163	135.9
5550.5	H	44.5	-50.8	-13	37.8	157	270.4
14436	H	57.3	-38	-13	25	166	135.9



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**7.8. GSM1900 L channel (vertical)**



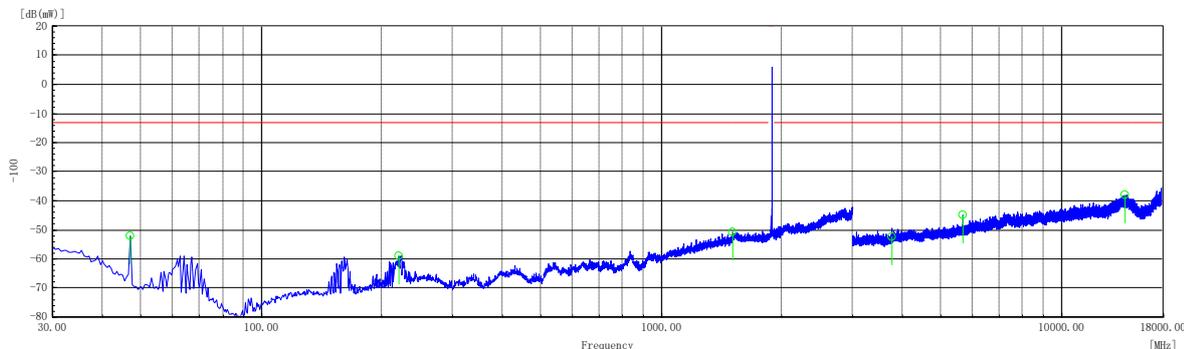
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59	V	39.7	-55.6	-13	42.6	106	180
950.5	V	38.3	-57	-13	44	111	359.9
2851	V	54.8	-40.5	-13	27.5	163	270
3700.5	V	41.6	-53.7	-13	40.7	142	225
5550.5	V	43.9	-51.4	-13	38.4	174	134.7
13965.5	V	57.6	-37.7	-13	24.7	148	180



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**7.9. GSM1900 M channel (horizontal)**



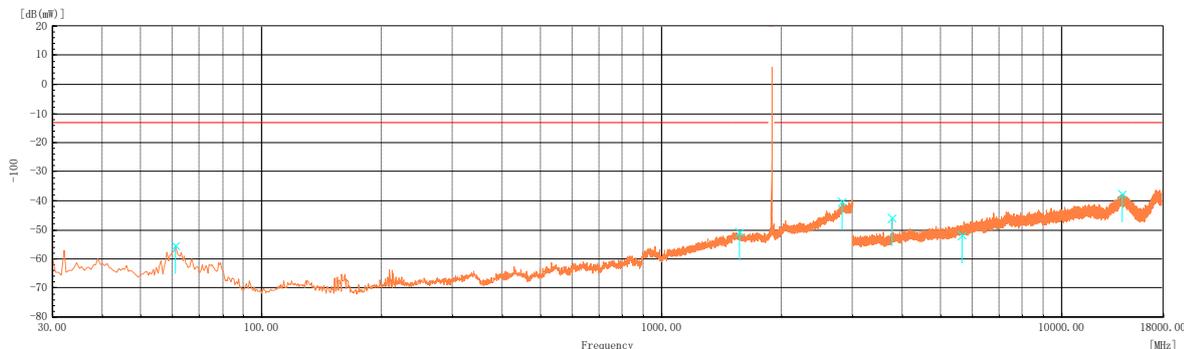
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
47	H	43.1	-52.2	-13	39.2	153	45.4
220	H	36.4	-58.9	-13	45.9	173	315.3
1503.5	H	44.4	-50.9	-13	37.9	160	0.1
3760	H	42.7	-52.6	-13	39.6	111	270.4
5662.5	H	50.2	-45.1	-13	32.1	115	0.1
14453	H	57.2	-38.1	-13	25.1	136	225.5



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**7.10. GSM1900 M channel (vertical)**



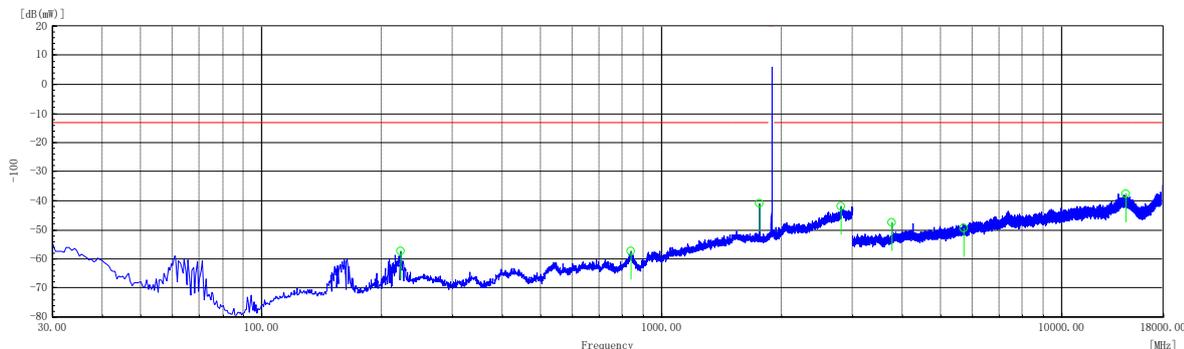
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
61	V	39.9	-55.4	-13	42.4	179	315.3
1564.5	V	44.5	-50.8	-13	37.8	119	269.6
2835.5	V	54.8	-40.5	-13	27.5	149	0.1
3774.5	V	49.5	-45.8	-13	32.8	168	225
5640	V	43.5	-51.8	-13	38.8	131	89.4
14164.5	V	57.5	-37.8	-13	24.8	179	315.3



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**7.11. GSM1900 H channel (horizontal)**



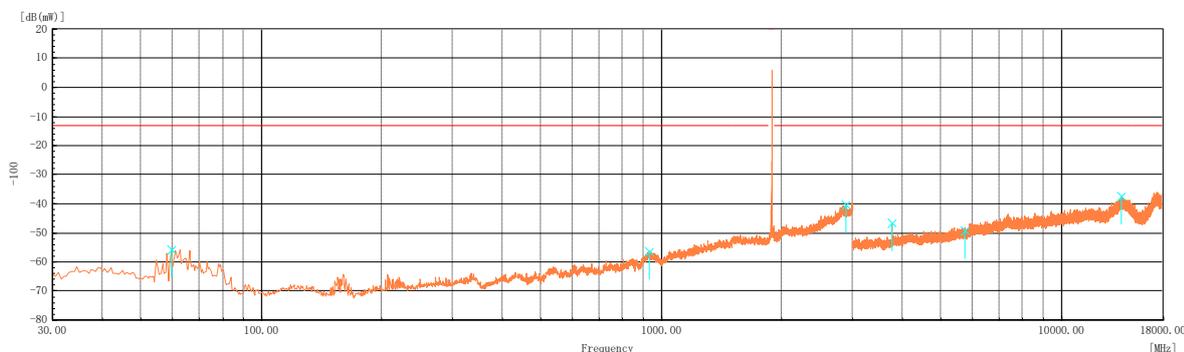
Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
222.5	H	37.9	-57.4	-13	44.4	130	135.4
840	H	38.0	-57.3	-13	44.3	137	135.4
1758	H	54.4	-40.9	-13	27.9	115	180.4
2819	H	53.4	-41.9	-13	28.9	174	44.8
3774.5	H	47.9	-47.4	-13	34.4	170	225.8
5720.5	H	45.7	-49.6	-13	36.6	120	270.3
14489.5	H	57.7	-37.6	-13	24.6	143	315.6



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**7.12. GSM1900 H channel (vertical)**



Frequency [MHz]	Pol	Level [dBμV/m]	Level [dB(mW)]	Limit [dB(mW)]	Margin [dB]	Height [cm]	Azimuth [°]
59.5	V	39.7	-55.6	-13	42.6	102	180
931	V	39.1	-56.2	-13	43.2	113	315.6
2897	V	54.9	-40.4	-13	27.4	149	315.6
3775	V	48.8	-46.5	-13	33.5	142	269.9
5728.5	V	46.0	-49.3	-13	36.3	111	269.9
14124.5	V	57.8	-37.5	-13	24.5	165	135.1

**Note:**

- 1) The disturbance above 18GHz and below 30MHz was very low at GSM1900, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) GSM850 working frequency lower than 1GHz, only test the tenth harmonic of the highest fundamental frequency. And the disturbance below 30MHz was very low, and the above harmonics are the highest points could be found when testing, so only the worst case data had been displayed.
- 2) We have tested all modulation and Bandwidth, but only the worst case data presented in this report.



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## 8. Frequency Stability

### 8.1. Frequency Error Vs Voltage

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	TN	-9.81	-0.011908	±2.5	PASS
GSM850	128	VN	TN	-10.01	-0.012143	±2.5	PASS
GSM850	128	VH	TN	-10.04	-0.012183	±2.5	PASS
GSM850	190	VL	TN	-7.59	-0.009069	±2.5	PASS
GSM850	190	VN	TN	-7.62	-0.009108	±2.5	PASS
GSM850	190	VH	TN	-4.20	-0.005017	±2.5	PASS
GSM850	251	VL	TN	-9.65	-0.011373	±2.5	PASS
GSM850	251	VN	TN	-5.17	-0.006086	±2.5	PASS
GSM850	251	VH	TN	-5.65	-0.006656	±2.5	PASS
EGPRS850	128	VL	TN	1.81	0.002194	±2.5	PASS
EGPRS850	128	VN	TN	-1.61	-0.001959	±2.5	PASS
EGPRS850	128	VH	TN	1.45	0.001763	±2.5	PASS
EGPRS850	190	VL	TN	0.74	0.000888	±2.5	PASS
EGPRS850	190	VN	TN	2.78	0.003319	±2.5	PASS
EGPRS850	190	VH	TN	4.07	0.004863	±2.5	PASS
EGPRS850	251	VL	TN	-2.49	-0.002929	±2.5	PASS
EGPRS850	251	VN	TN	2.58	0.003043	±2.5	PASS
EGPRS850	251	VH	TN	2.71	0.003195	±2.5	PASS
GSM1900	512	VL	TN	3.03	0.001640	±2.5	PASS
GSM1900	512	VN	TN	5.65	0.003054	±2.5	PASS
GSM1900	512	VH	TN	6.39	0.003455	±2.5	PASS
GSM1900	661	VL	TN	5.23	0.002782	±2.5	PASS
GSM1900	661	VN	TN	7.23	0.003847	±2.5	PASS
GSM1900	661	VH	TN	5.20	0.002765	±2.5	PASS
GSM1900	810	VL	TN	4.16	0.002181	±2.5	PASS
GSM1900	810	VN	TN	4.62	0.002417	±2.5	PASS
GSM1900	810	VH	TN	5.97	0.003127	±2.5	PASS
EGPRS1900	512	VL	TN	3.87	0.002094	±2.5	PASS
EGPRS1900	512	VN	TN	9.30	0.005026	±2.5	PASS
EGPRS1900	512	VH	TN	8.33	0.004502	±2.5	PASS
EGPRS1900	661	VL	TN	5.62	0.002988	±2.5	PASS
EGPRS1900	661	VN	TN	-2.00	-0.001065	±2.5	PASS
EGPRS1900	661	VH	TN	3.36	0.001786	±2.5	PASS
EGPRS1900	810	VL	TN	6.94	0.003635	±2.5	PASS
EGPRS1900	810	VN	TN	6.59	0.003449	±2.5	PASS
EGPRS1900	810	VH	TN	4.88	0.002553	±2.5	PASS



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**8.2. Frequency Error Vs Temperature**

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VN	-30	-12.43	-0.015081	±2.5	PASS
GSM850	128	VN	-20	-11.36	-0.013789	±2.5	PASS
GSM850	128	VN	-10	-9.78	-0.011869	±2.5	PASS
GSM850	128	VN	0	-15.11	-0.018333	±2.5	PASS
GSM850	128	VN	10	-14.69	-0.017823	±2.5	PASS
GSM850	128	VN	20	-11.88	-0.014415	±2.5	PASS
GSM850	128	VN	30	-13.69	-0.016609	±2.5	PASS
GSM850	128	VN	40	-13.33	-0.016178	±2.5	PASS
GSM850	128	VN	50	-12.69	-0.015395	±2.5	PASS
GSM850	190	VN	-30	-8.01	-0.009571	±2.5	PASS
GSM850	190	VN	-20	-6.62	-0.007911	±2.5	PASS
GSM850	190	VN	-10	-4.97	-0.005943	±2.5	PASS
GSM850	190	VN	0	-5.81	-0.006947	±2.5	PASS
GSM850	190	VN	10	-11.11	-0.013276	±2.5	PASS
GSM850	190	VN	20	-9.20	-0.010999	±2.5	PASS
GSM850	190	VN	30	-9.36	-0.011192	±2.5	PASS
GSM850	190	VN	40	-11.62	-0.013893	±2.5	PASS
GSM850	190	VN	50	-9.94	-0.011886	±2.5	PASS
GSM850	251	VN	-30	-8.46	-0.009966	±2.5	PASS
GSM850	251	VN	-20	-8.20	-0.009661	±2.5	PASS
GSM850	251	VN	-10	-6.10	-0.007189	±2.5	PASS
GSM850	251	VN	0	-9.01	-0.010612	±2.5	PASS
GSM850	251	VN	10	-11.98	-0.014112	±2.5	PASS
GSM850	251	VN	20	-7.72	-0.009091	±2.5	PASS
GSM850	251	VN	30	-10.43	-0.012286	±2.5	PASS
GSM850	251	VN	40	-18.56	-0.021871	±2.5	PASS
GSM850	251	VN	50	6.17	0.007265	±2.5	PASS
EGPRS850	128	VN	-30	2.71	0.003290	±2.5	PASS
EGPRS850	128	VN	-20	2.03	0.002468	±2.5	PASS
EGPRS850	128	VN	-10	-1.94	-0.002350	±2.5	PASS
EGPRS850	128	VN	0	-0.16	-0.000196	±2.5	PASS
EGPRS850	128	VN	10	3.39	0.004113	±2.5	PASS
EGPRS850	128	VN	20	6.62	0.008030	±2.5	PASS
EGPRS850	128	VN	30	4.78	0.005798	±2.5	PASS
EGPRS850	128	VN	40	2.71	0.003290	±2.5	PASS
EGPRS850	128	VN	50	2.49	0.003016	±2.5	PASS
EGPRS850	190	VN	-30	-0.29	-0.000347	±2.5	PASS
EGPRS850	190	VN	-20	4.58	0.005480	±2.5	PASS
EGPRS850	190	VN	-10	-0.52	-0.000617	±2.5	PASS
EGPRS850	190	VN	0	2.20	0.002624	±2.5	PASS
EGPRS850	190	VN	10	4.07	0.004863	±2.5	PASS



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EGPRS850	190	VN	20	2.78	0.003319	±2.5	PASS
EGPRS850	190	VN	30	4.20	0.005017	±2.5	PASS
EGPRS850	190	VN	40	3.45	0.004129	±2.5	PASS
EGPRS850	190	VN	50	2.20	0.002624	±2.5	PASS
EGPRS850	251	VN	-30	2.49	0.002929	±2.5	PASS
EGPRS850	251	VN	-20	4.26	0.005021	±2.5	PASS
EGPRS850	251	VN	-10	1.49	0.001750	±2.5	PASS
EGPRS850	251	VN	0	0.77	0.000913	±2.5	PASS
EGPRS850	251	VN	10	5.39	0.006352	±2.5	PASS
EGPRS850	251	VN	20	4.33	0.005097	±2.5	PASS
EGPRS850	251	VN	30	5.49	0.006466	±2.5	PASS
EGPRS850	251	VN	40	4.94	0.005820	±2.5	PASS
EGPRS850	251	VN	50	4.68	0.005515	±2.5	PASS
GSM1900	512	VN	-30	4.62	0.002495	±2.5	PASS
GSM1900	512	VN	-20	11.30	0.006107	±2.5	PASS
GSM1900	512	VN	-10	2.65	0.001431	±2.5	PASS
GSM1900	512	VN	0	5.59	0.003019	±2.5	PASS
GSM1900	512	VN	10	-39.45	-0.021324	±2.5	PASS
GSM1900	512	VN	20	27.15	0.014675	±2.5	PASS
GSM1900	512	VN	30	22.24	0.012023	±2.5	PASS
GSM1900	512	VN	40	16.59	0.008969	±2.5	PASS
GSM1900	512	VN	50	9.62	0.005200	±2.5	PASS
GSM1900	661	VN	-30	2.45	0.001305	±2.5	PASS
GSM1900	661	VN	-20	3.36	0.001786	±2.5	PASS
GSM1900	661	VN	-10	6.68	0.003555	±2.5	PASS
GSM1900	661	VN	0	12.56	0.006680	±2.5	PASS
GSM1900	661	VN	10	0.13	0.000069	±2.5	PASS
GSM1900	661	VN	20	6.01	0.003194	±2.5	PASS
GSM1900	661	VN	30	6.55	0.003486	±2.5	PASS
GSM1900	661	VN	40	4.97	0.002645	±2.5	PASS
GSM1900	661	VN	50	1.49	0.000790	±2.5	PASS
GSM1900	810	VN	-30	-4.78	-0.002502	±2.5	PASS
GSM1900	810	VN	-20	7.20	0.003770	±2.5	PASS
GSM1900	810	VN	-10	7.59	0.003973	±2.5	PASS
GSM1900	810	VN	0	5.17	0.002705	±2.5	PASS
GSM1900	810	VN	10	1.55	0.000811	±2.5	PASS
GSM1900	810	VN	20	4.97	0.002603	±2.5	PASS
GSM1900	810	VN	30	9.01	0.004717	±2.5	PASS
GSM1900	810	VN	40	9.43	0.004936	±2.5	PASS
GSM1900	810	VN	50	0.61	0.000321	±2.5	PASS
EGPRS1900	512	VN	-30	6.46	0.003490	±2.5	PASS
EGPRS1900	512	VN	-20	6.75	0.003647	±2.5	PASS
EGPRS1900	512	VN	-10	2.39	0.001291	±2.5	PASS
EGPRS1900	512	VN	0	7.68	0.004153	±2.5	PASS
EGPRS1900	512	VN	10	3.71	0.002007	±2.5	PASS
EGPRS1900	512	VN	20	19.40	0.010487	±2.5	PASS



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EGPRS1900	512	VN	30	15.82	0.008550	±2.5	PASS
EGPRS1900	512	VN	40	12.14	0.006561	±2.5	PASS
EGPRS1900	512	VN	50	46.69	0.025233	±2.5	PASS
EGPRS1900	661	VN	-30	9.81	0.005221	±2.5	PASS
EGPRS1900	661	VN	-20	2.42	0.001288	±2.5	PASS
EGPRS1900	661	VN	-10	5.59	0.002971	±2.5	PASS
EGPRS1900	661	VN	0	4.13	0.002198	±2.5	PASS
EGPRS1900	661	VN	10	7.75	0.004122	±2.5	PASS
EGPRS1900	661	VN	20	5.29	0.002816	±2.5	PASS
EGPRS1900	661	VN	30	9.43	0.005015	±2.5	PASS
EGPRS1900	661	VN	40	13.72	0.007299	±2.5	PASS
EGPRS1900	661	VN	50	12.53	0.006663	±2.5	PASS
EGPRS1900	810	VN	-30	-2.36	-0.001234	±2.5	PASS
EGPRS1900	810	VN	-20	5.52	0.002891	±2.5	PASS
EGPRS1900	810	VN	-10	9.17	0.004801	±2.5	PASS
EGPRS1900	810	VN	0	13.27	0.006948	±2.5	PASS
EGPRS1900	810	VN	10	33.00	0.017277	±2.5	PASS
EGPRS1900	810	VN	20	27.70	0.014505	±2.5	PASS
EGPRS1900	810	VN	30	14.72	0.007709	±2.5	PASS
EGPRS1900	810	VN	40	17.14	0.008977	±2.5	PASS
EGPRS1900	810	VN	50	11.66	0.006103	±2.5	PASS

The End



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