

Appendix B

GSM 850 & 1900



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Shenzhen Branch Inspection & Testing Services Laboratory

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Montgomery 200

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1. Effective (Isotropic) Radiated Power Output Data

1.1. Test Result

DOWN ANTENNA:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.45	29.7	38.45	PASS
GSM850	190	---	33.52	29.77	38.45	PASS
GSM850	251	---	33.50	29.75	38.45	PASS
EGPRS850	128	1	27.19	23.44	38.45	PASS
EGPRS850	128	2	24.20	20.45	38.45	PASS
EGPRS850	128	3	22.31	18.56	38.45	PASS
EGPRS850	128	4	21.02	17.27	38.45	PASS
EGPRS850	190	1	27.21	23.46	38.45	PASS
EGPRS850	190	2	24.21	20.46	38.45	PASS
EGPRS850	190	3	22.32	18.57	38.45	PASS
EGPRS850	190	4	21.00	17.25	38.45	PASS
EGPRS850	251	1	27.19	23.44	38.45	PASS
EGPRS850	251	2	24.19	20.44	38.45	PASS
EGPRS850	251	3	22.30	18.55	38.45	PASS
EGPRS850	251	4	21.05	17.3	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	29.76	26.26	33.00	PASS
GSM1900	661	---	29.60	26.1	33.00	PASS
GSM1900	810	---	29.46	25.96	33.00	PASS
EGPRS1900	512	1	25.95	22.45	33.00	PASS
EGPRS1900	512	2	23.16	19.66	33.00	PASS
EGPRS1900	512	3	21.31	17.81	33.00	PASS
EGPRS1900	512	4	19.89	16.39	33.00	PASS
EGPRS1900	661	1	25.20	21.7	33.00	PASS
EGPRS1900	661	2	22.39	18.89	33.00	PASS
EGPRS1900	661	3	20.53	17.03	33.00	PASS
EGPRS1900	661	4	19.17	15.67	33.00	PASS
EGPRS1900	810	1	25.02	21.52	33.00	PASS
EGPRS1900	810	2	22.21	18.71	33.00	PASS
EGPRS1900	810	3	20.31	16.81	33.00	PASS
EGPRS1900	810	4	19.01	15.51	33.00	PASS

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UP ANTENNA:

Band	Channel	Slot	Conducted Power (dBm)	ERP (dBm)	Limit(dBm)	Verdict
GSM850	128	---	33.98	30.43	38.45	PASS
GSM850	190	---	33.95	30.4	38.45	PASS
GSM850	251	---	33.81	30.26	38.45	PASS
EGPRS850	128	1	27.96	24.41	38.45	PASS
EGPRS850	128	2	24.95	21.4	38.45	PASS
EGPRS850	128	3	23.18	19.63	38.45	PASS
EGPRS850	128	4	21.96	18.41	38.45	PASS
EGPRS850	190	1	27.91	24.36	38.45	PASS
EGPRS850	190	2	24.92	21.37	38.45	PASS
EGPRS850	190	3	23.15	19.6	38.45	PASS
EGPRS850	190	4	21.93	18.38	38.45	PASS
EGPRS850	251	1	27.85	24.3	38.45	PASS
EGPRS850	251	2	24.86	21.31	38.45	PASS
EGPRS850	251	3	23.10	19.55	38.45	PASS
EGPRS850	251	4	21.91	18.36	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	28.17	25.57	33.00	PASS
GSM1900	661	---	28.04	25.44	33.00	PASS
GSM1900	810	---	28.15	25.55	33.00	PASS
EGPRS1900	512	1	23.85	21.25	33.00	PASS
EGPRS1900	512	2	21.05	18.45	33.00	PASS
EGPRS1900	512	3	19.25	16.65	33.00	PASS
EGPRS1900	512	4	17.87	15.27	33.00	PASS
EGPRS1900	661	1	23.94	21.34	33.00	PASS
EGPRS1900	661	2	21.06	18.46	33.00	PASS
EGPRS1900	661	3	19.24	16.64	33.00	PASS
EGPRS1900	661	4	17.71	15.11	33.00	PASS
EGPRS1900	810	1	23.85	21.25	33.00	PASS
EGPRS1900	810	2	21.21	18.61	33.00	PASS
EGPRS1900	810	3	19.31	16.71	33.00	PASS
EGPRS1900	810	4	17.76	15.16	33.00	PASS

Remark:

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

ERP [dBm] = Conducted Power [dBm] + Gain [dBd]

EIRP [dBm] = Conducted Power [dBm] + Gain [dBi]

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2. Peak-to-Average Ratio

2.1. Test Result

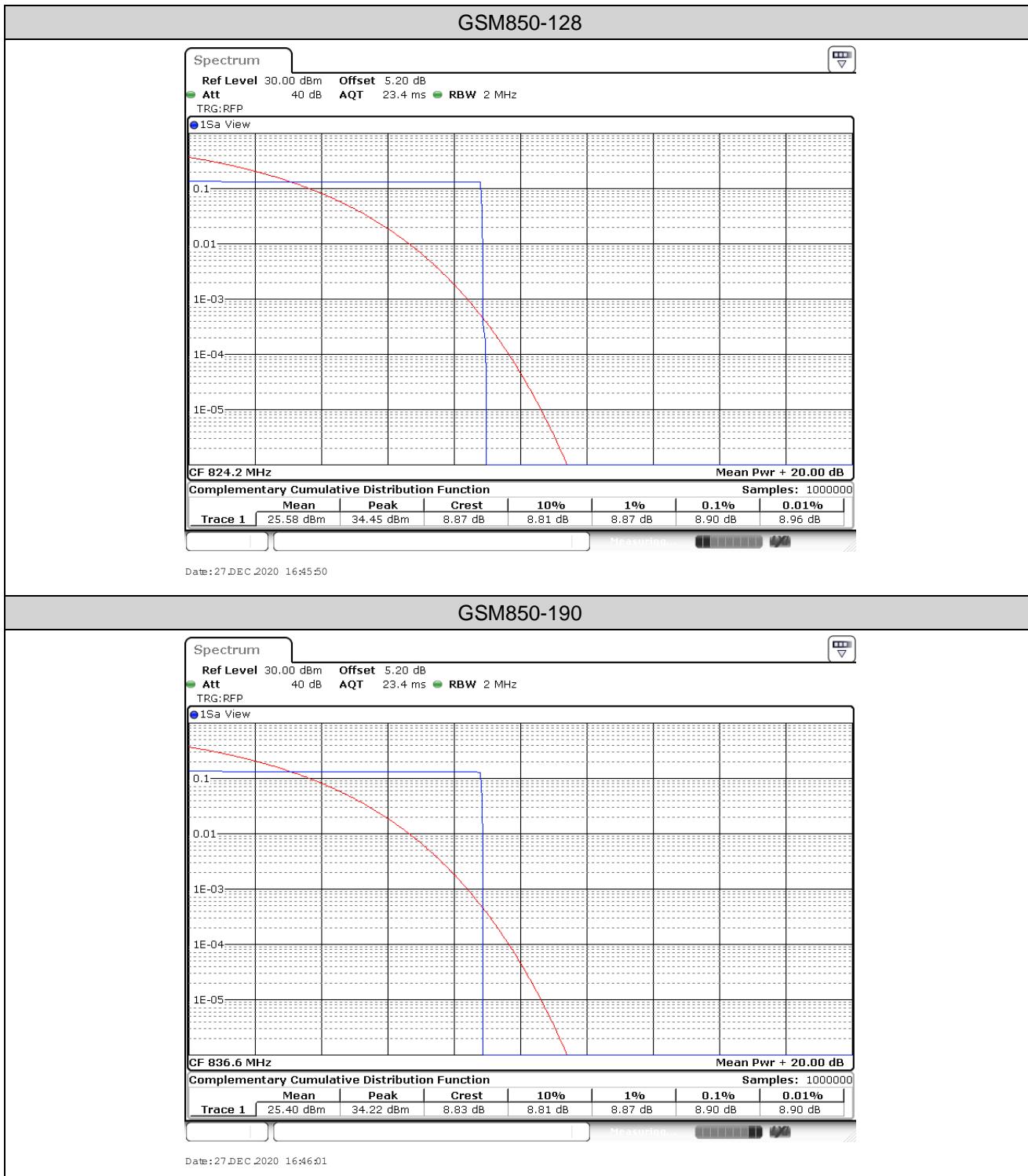
Band	Channel	Result(dB)	Limit(dB)	Verdict
GSM850	128	8.9	13	PASS
GSM850	190	8.9	13	PASS
GSM850	251	8.9	13	PASS
EGPRS850	128	12.23	13	PASS
EGPRS850	190	12.46	13	PASS
EGPRS850	251	12.49	13	PASS
GSM1900	512	8.96	13	PASS
GSM1900	661	8.9	13	PASS
GSM1900	810	8.9	13	PASS
EGPRS1900	512	11.54	13	PASS
EGPRS1900	661	11.74	13	PASS
EGPRS1900	810	12.49	13	PASS



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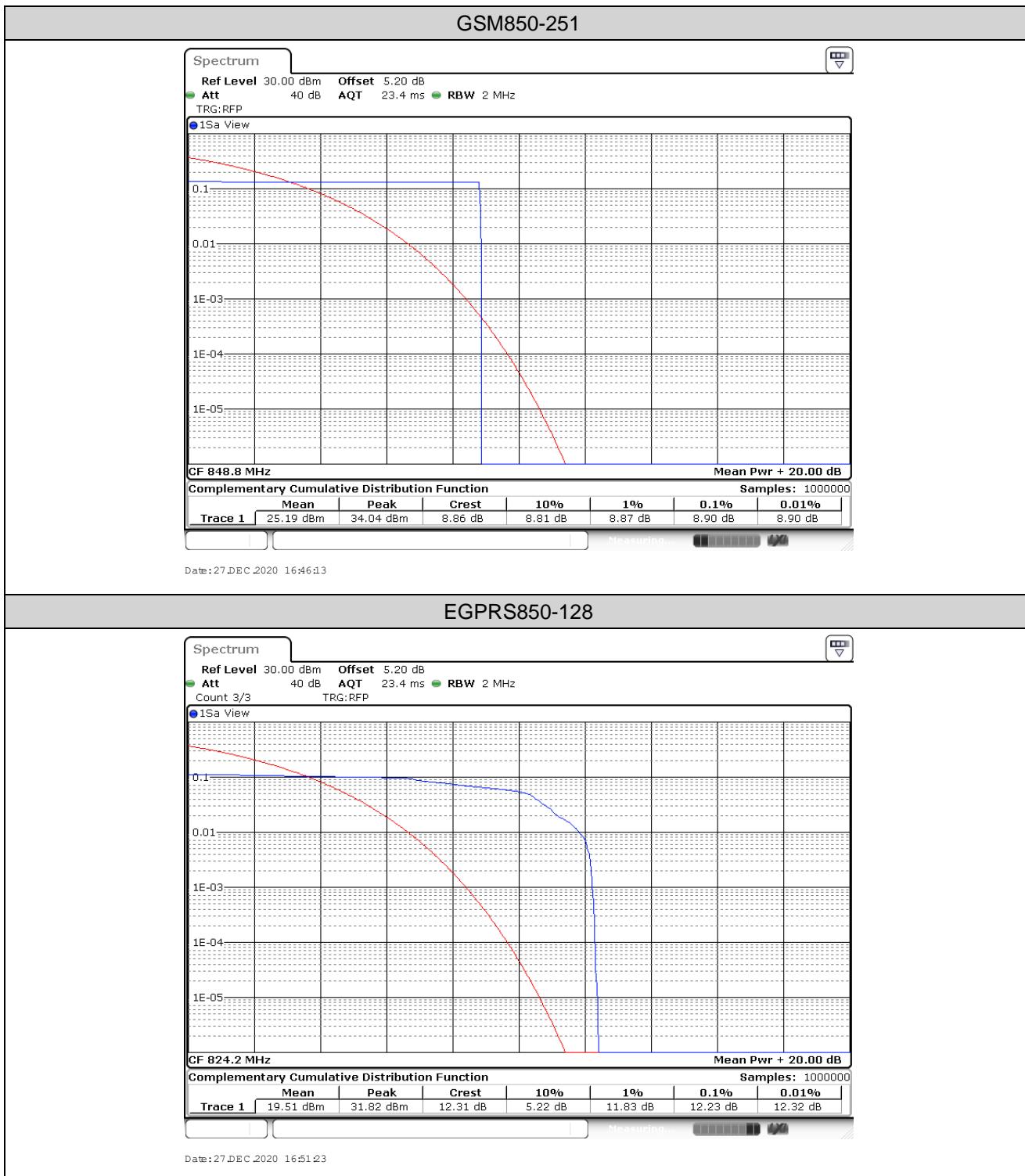
2.2. Part II - Test Plots



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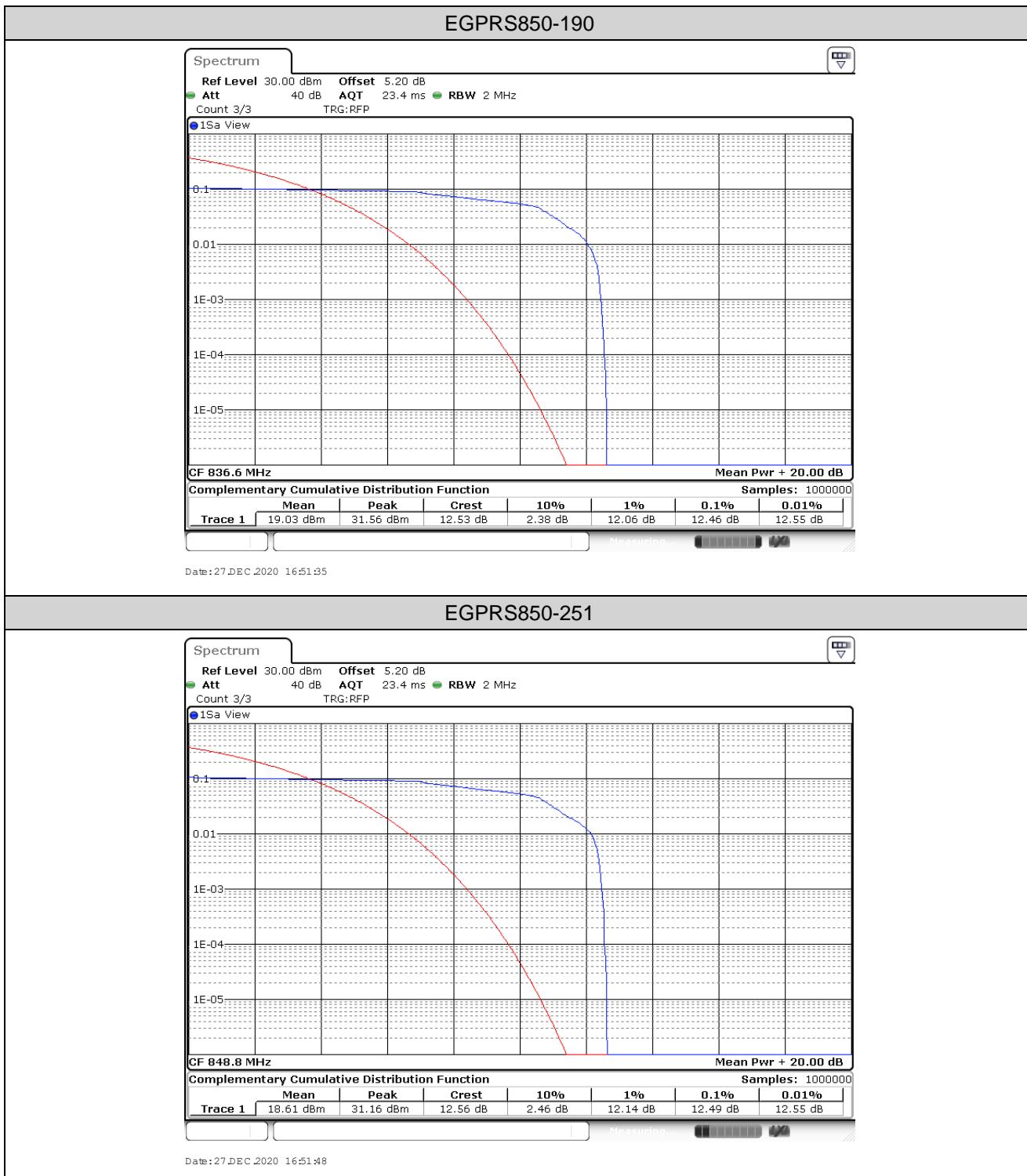




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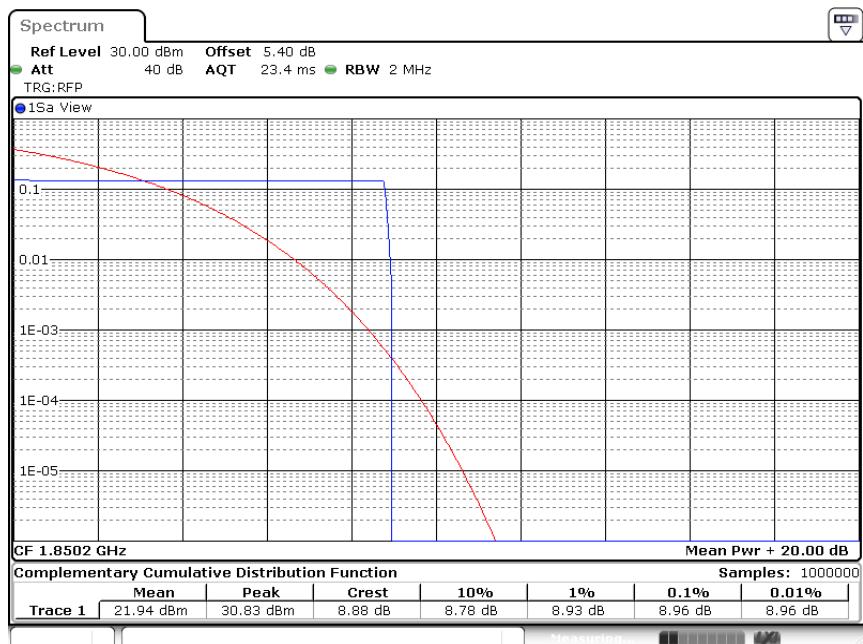


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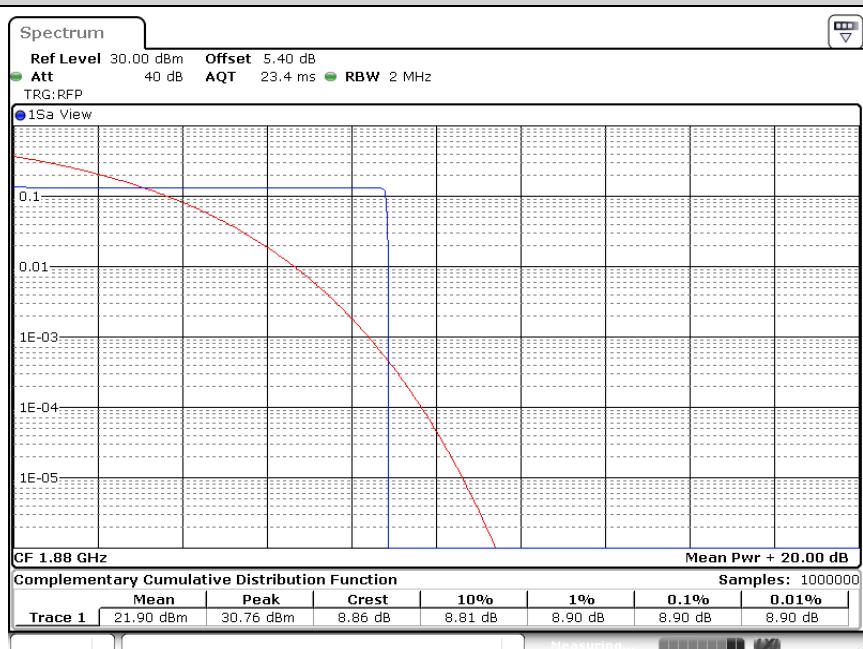
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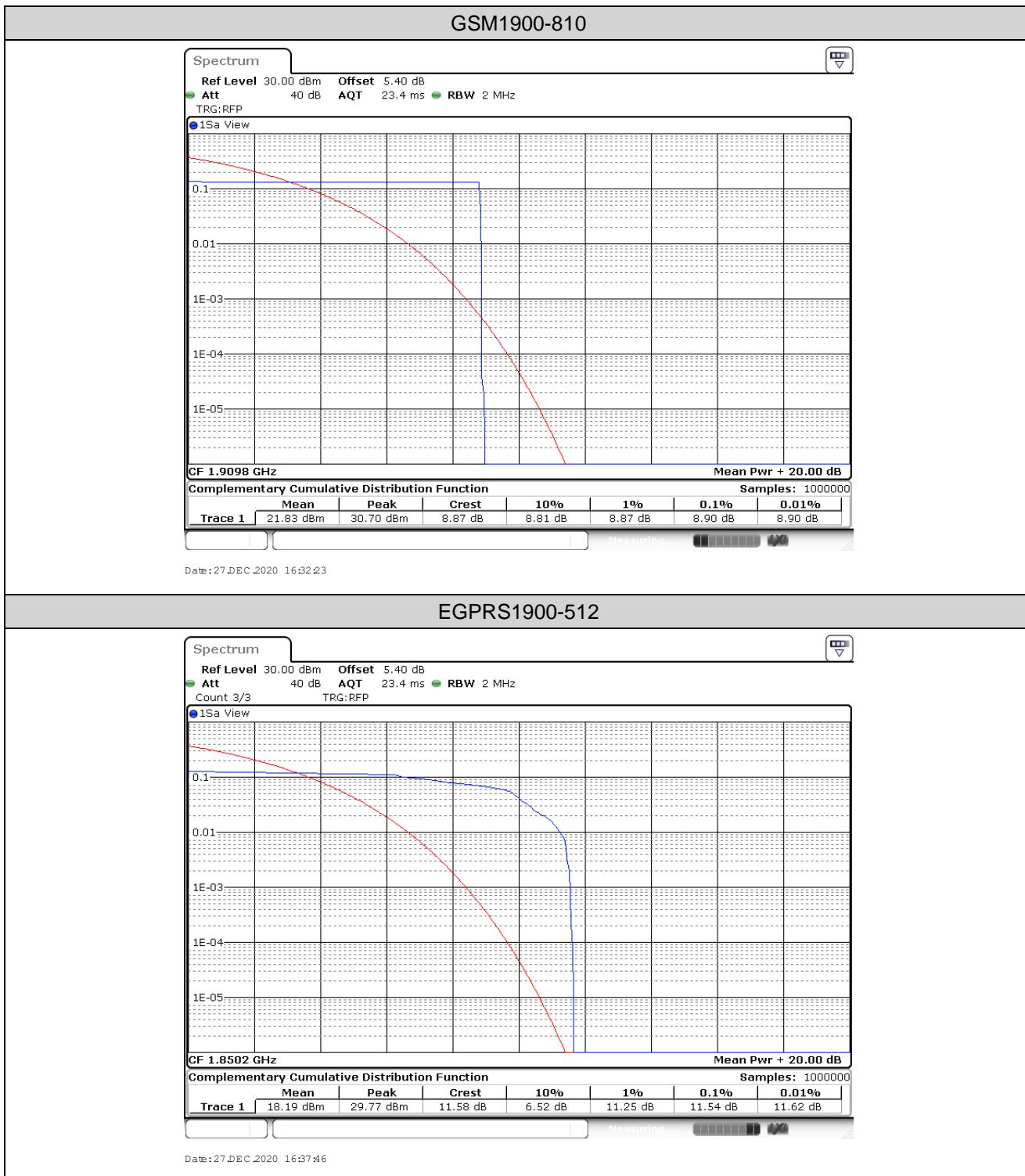
GSM1900-661



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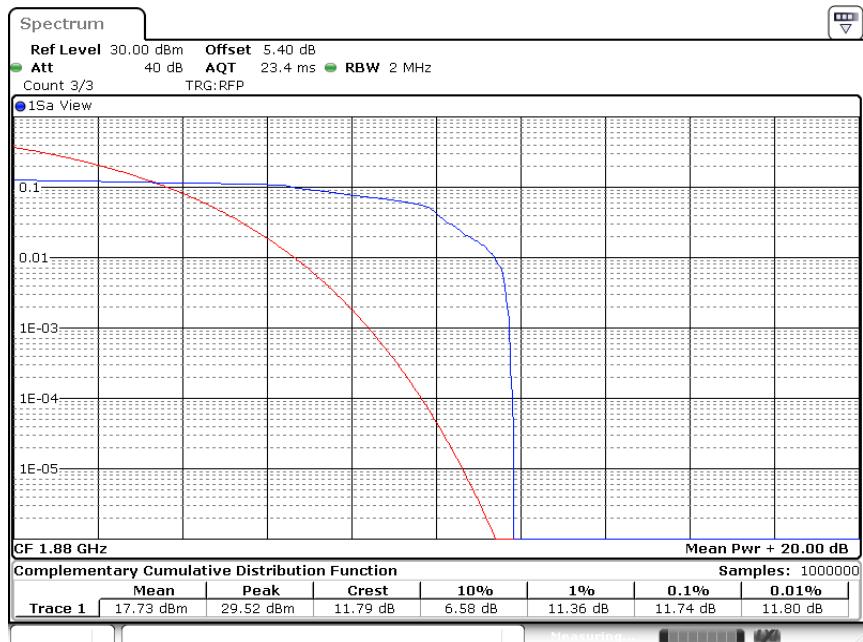


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EGPRS1900-661



EGPRS1900-810



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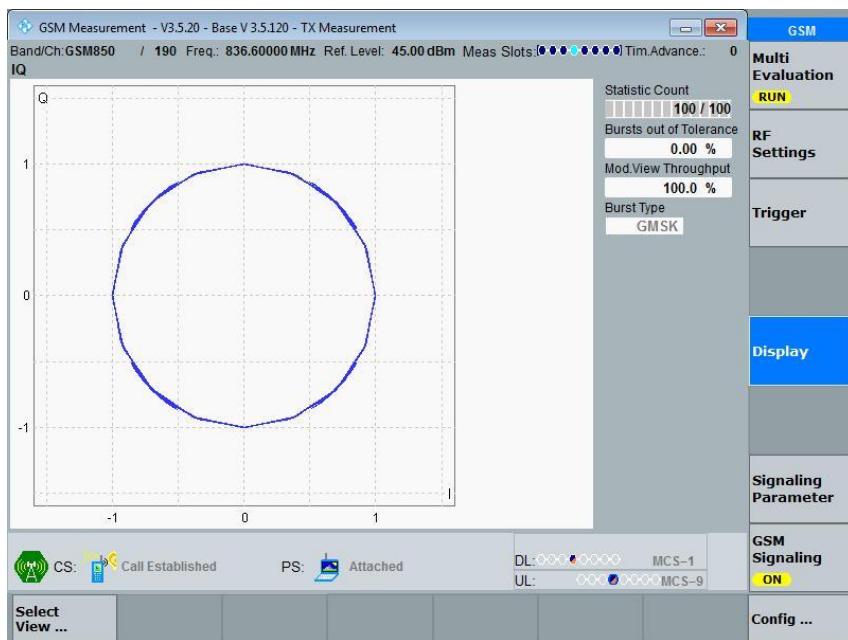
3. Modulation Characteristics

3.1. For GSM

3.1.1. Test Band = GSM 850

3.1.1.1. Test Mode = GSM/TM1

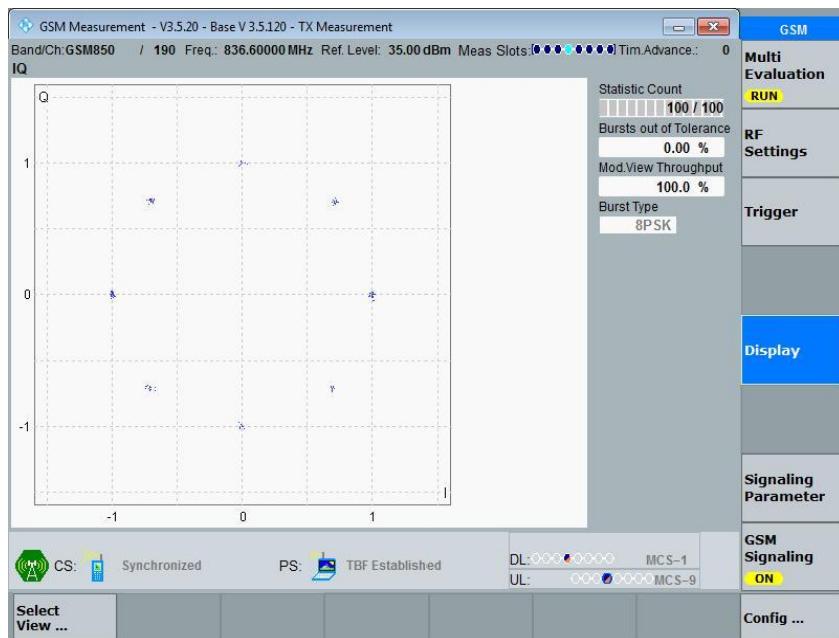
3.1.1.1.1. Test Channel = MCH



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3.1.1.2. Test Mode = GSM/TM2**3.1.1.2.1. Test Channel = MCH**

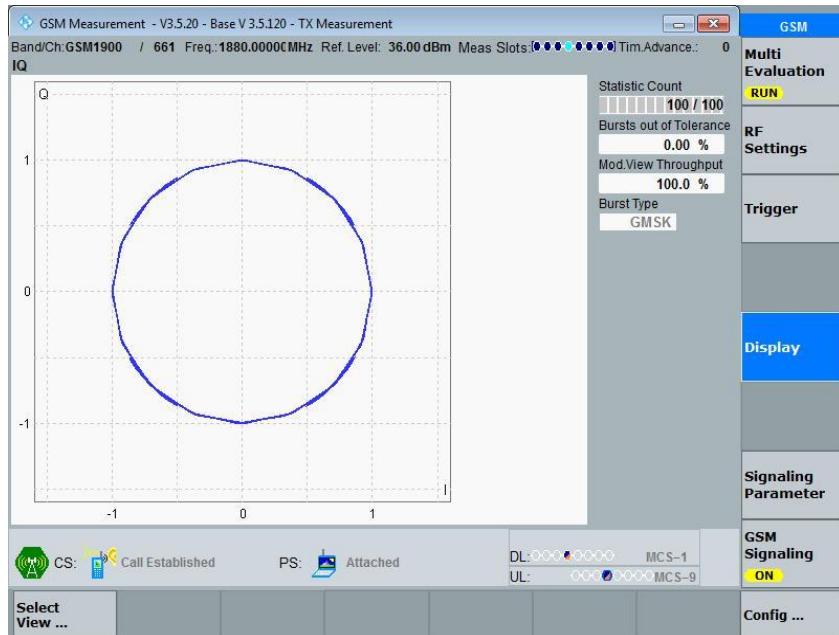
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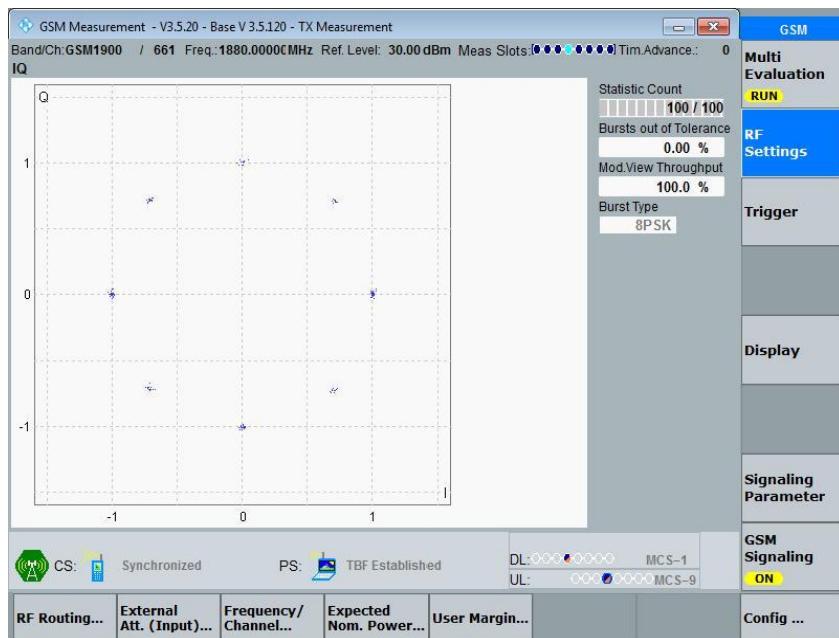
3.1.2. Test Band = GSM 1900**3.1.2.1. Test Mode = GSM/TM1****3.1.2.1.1. Test Channel = MCH**

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3.1.2.2. Test Mode = GSM/TM2**3.1.2.2.1. Test Channel = MCH**

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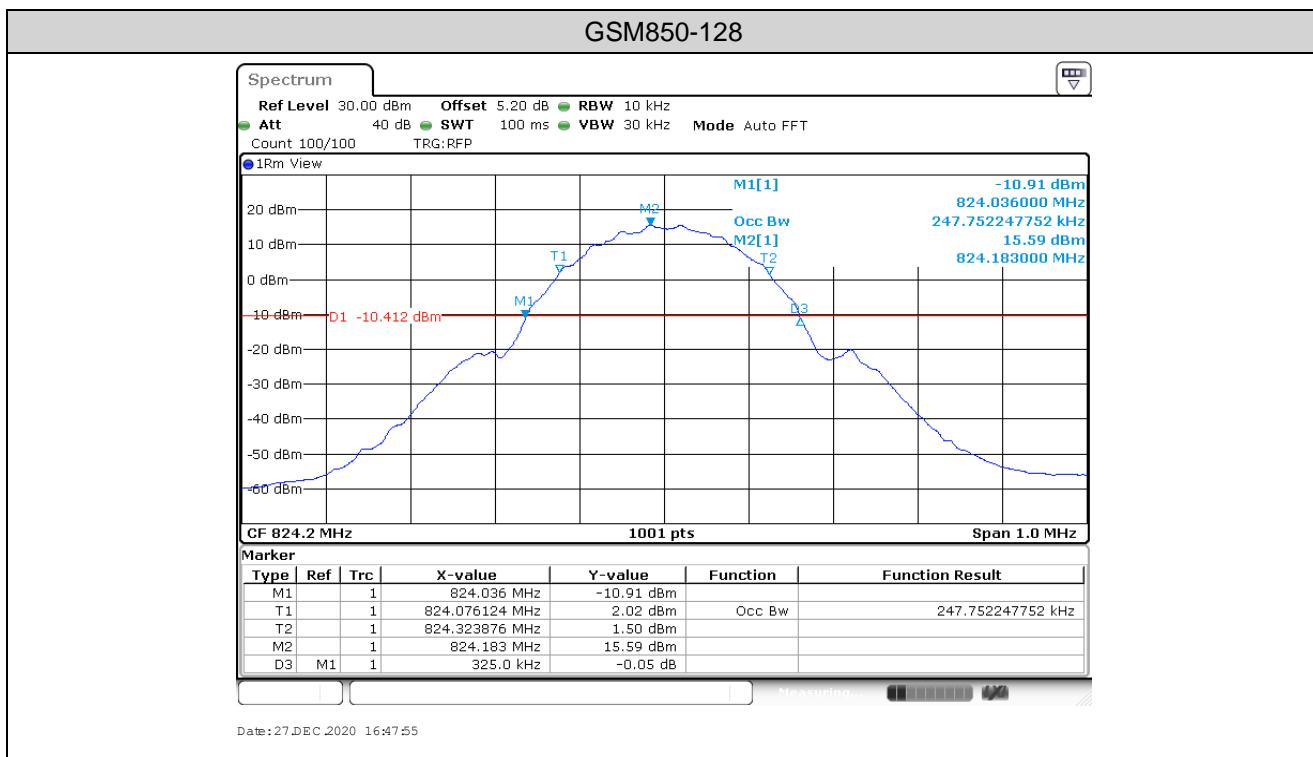
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4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
GSM850	128	0.248	0.325	---	PASS
GSM850	190	0.248	0.325	---	PASS
GSM850	251	0.248	0.324	---	PASS
EGPRS850	128	0.249	0.322	---	PASS
EGPRS850	190	0.248	0.322	---	PASS
EGPRS850	251	0.248	0.321	---	PASS
GSM1900	512	0.247	0.324	---	PASS
GSM1900	661	0.248	0.324	---	PASS
GSM1900	810	0.247	0.325	---	PASS
EGPRS1900	512	0.251	0.324	---	PASS
EGPRS1900	661	0.251	0.323	---	PASS
EGPRS1900	810	0.249	0.324	---	PASS

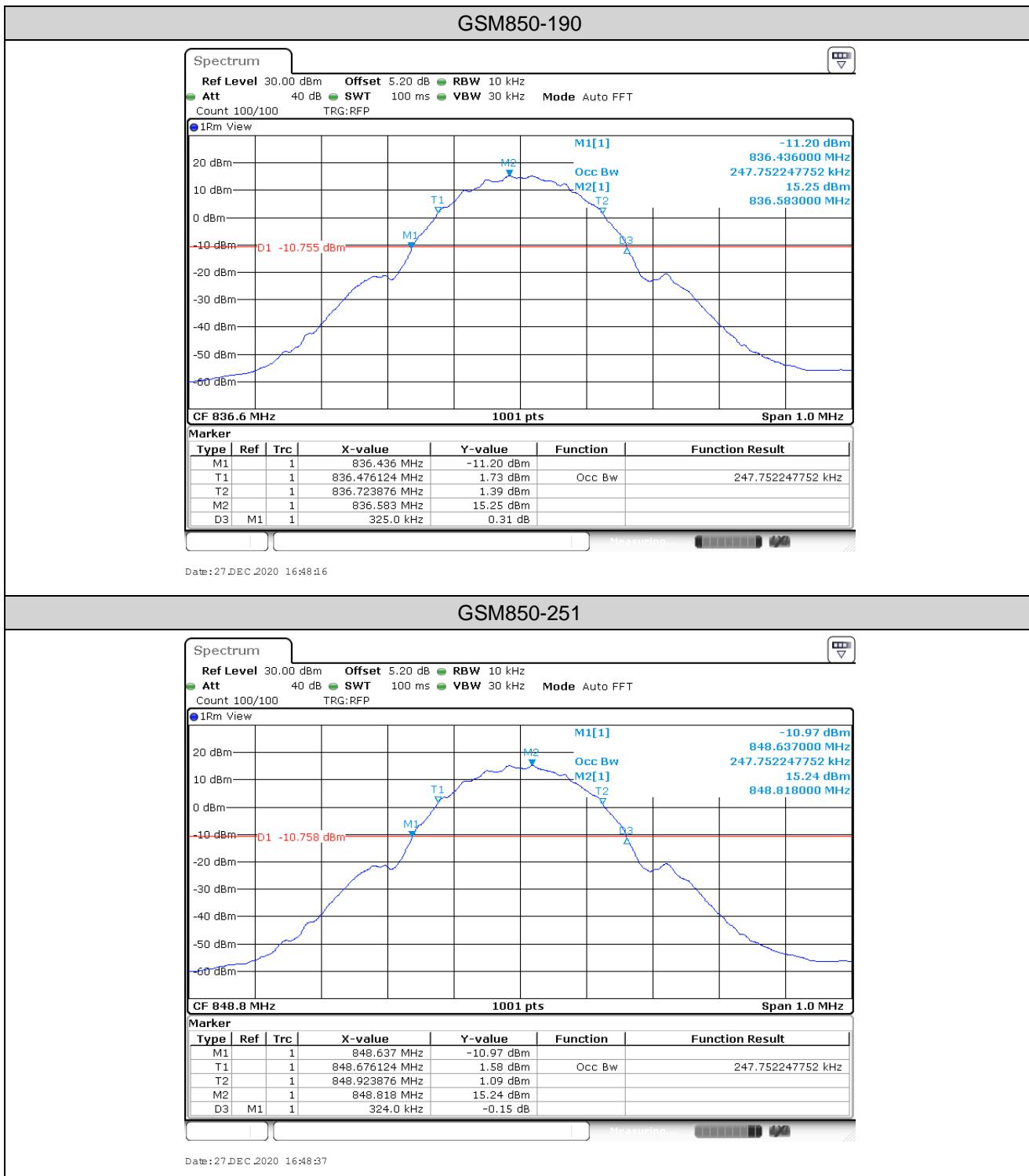
4.2. Test Plots



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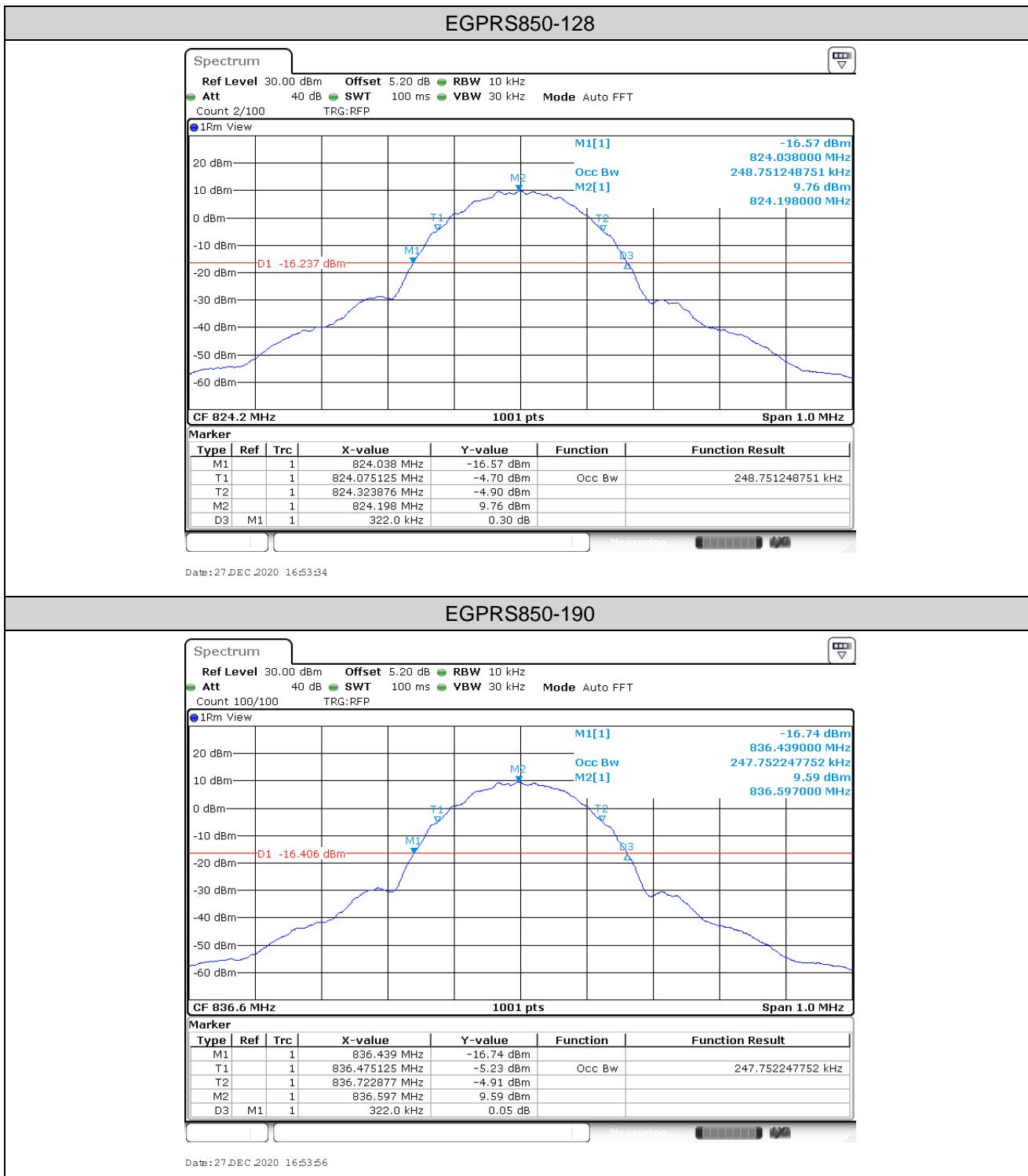




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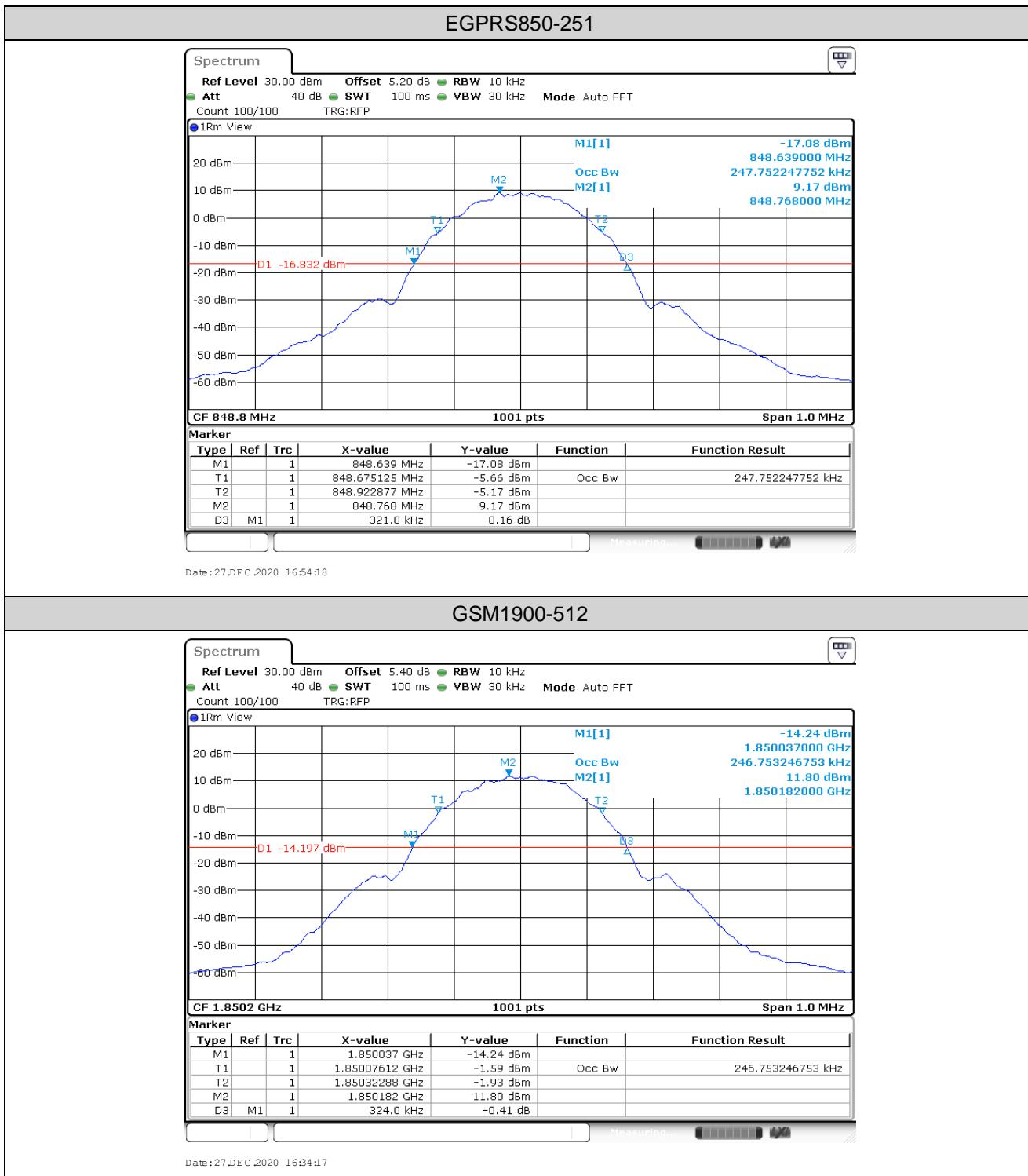




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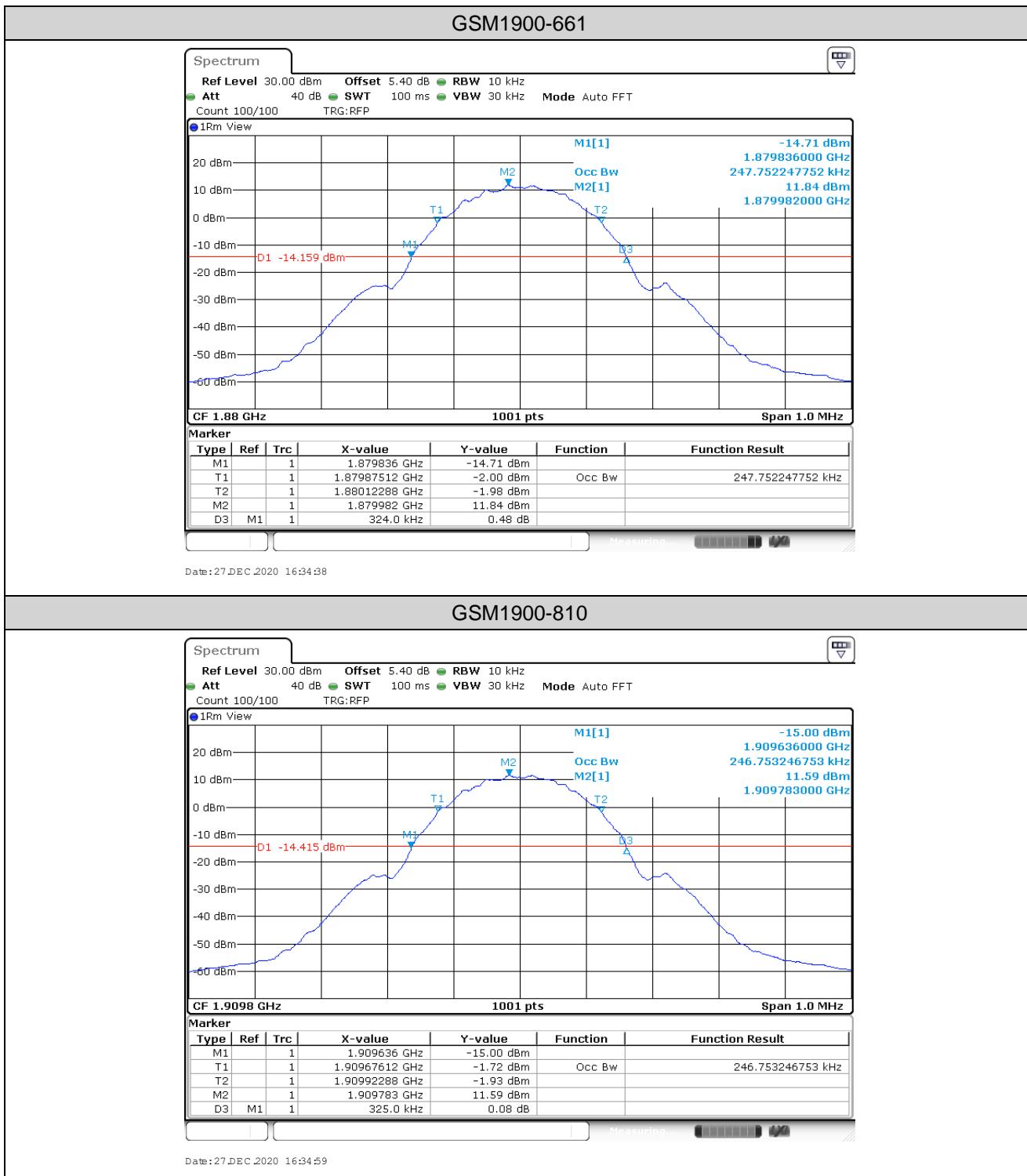




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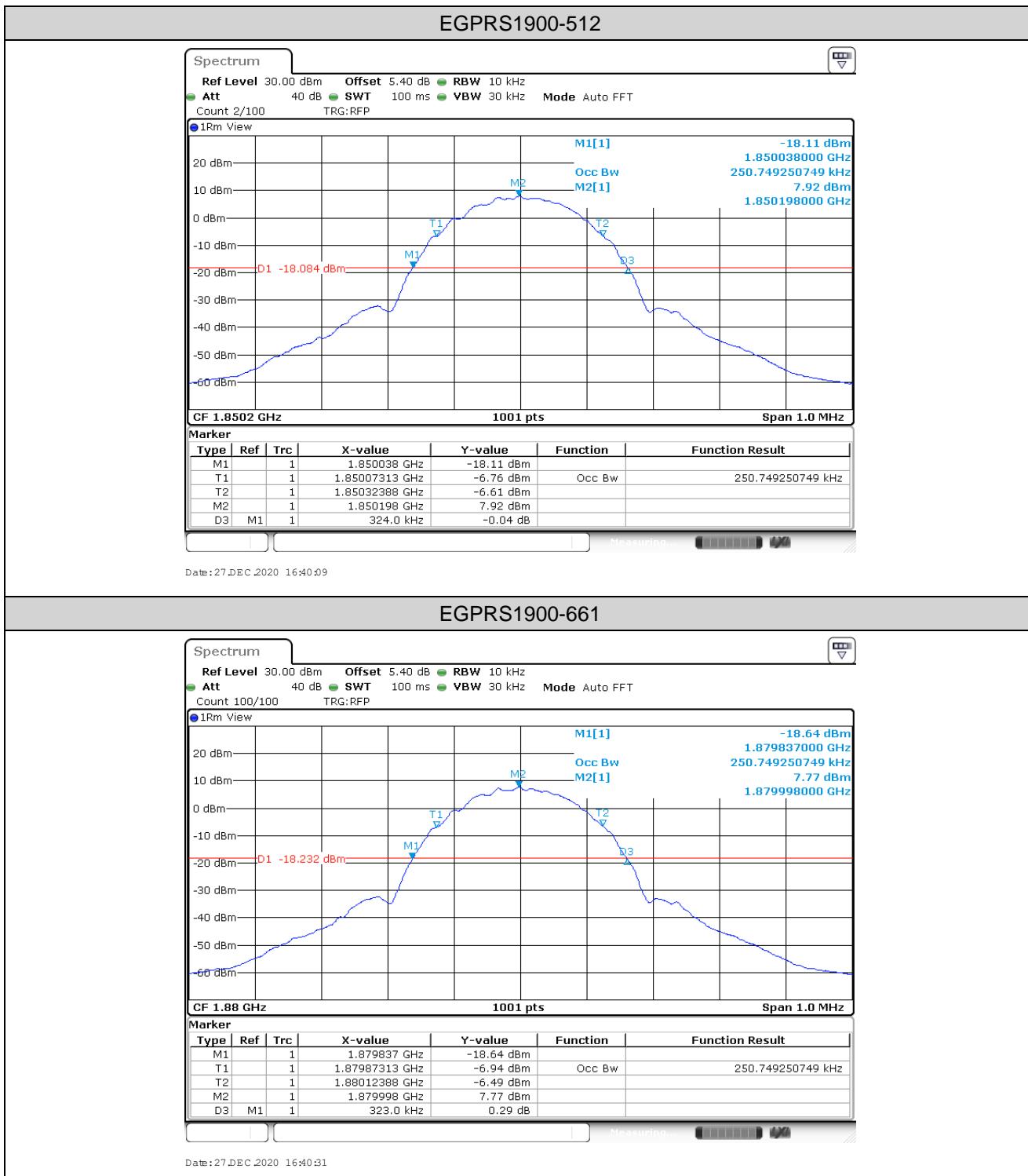




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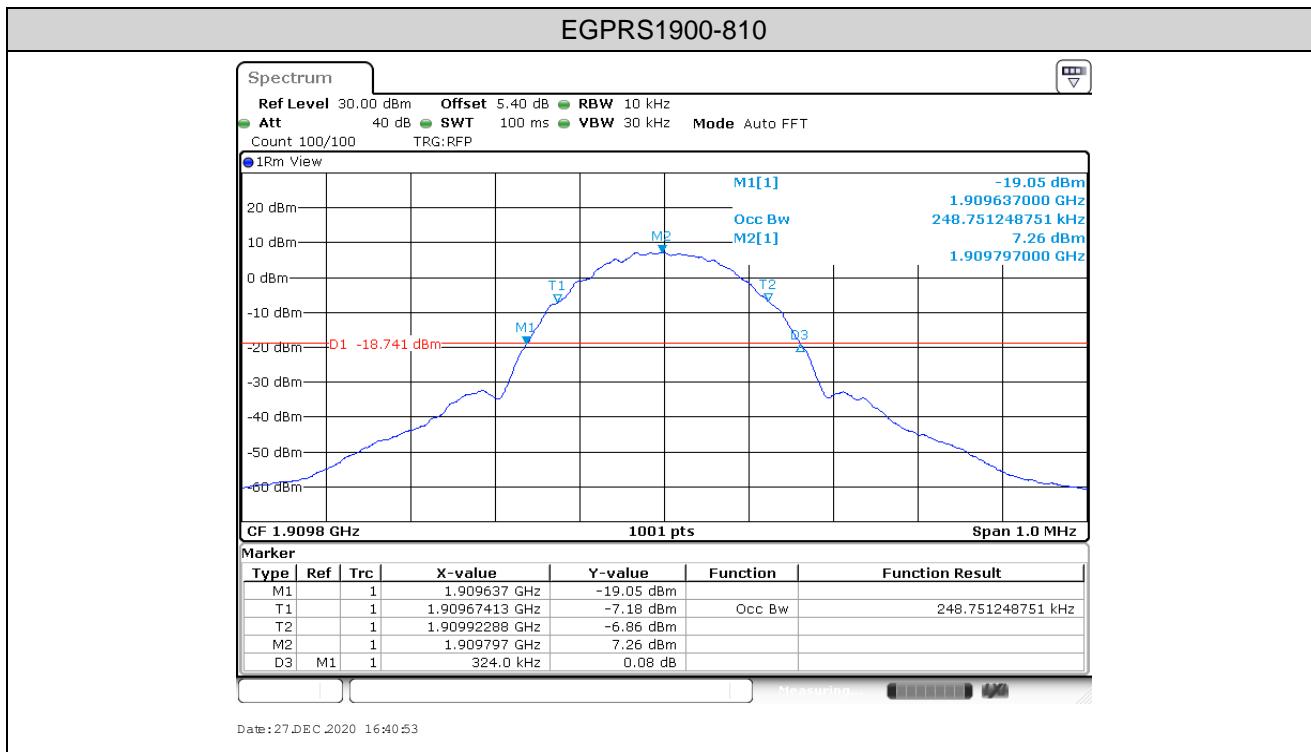




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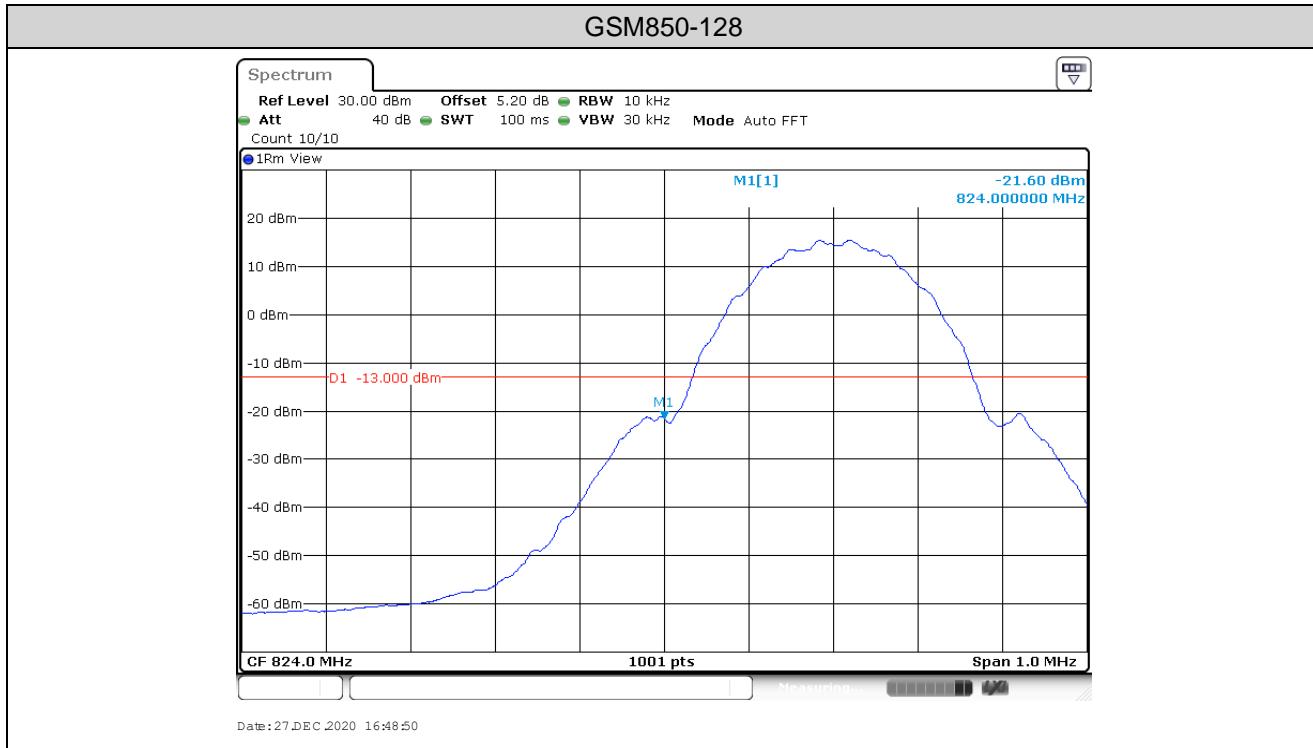
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5. Band Edge Compliance

5.1. Test Plots



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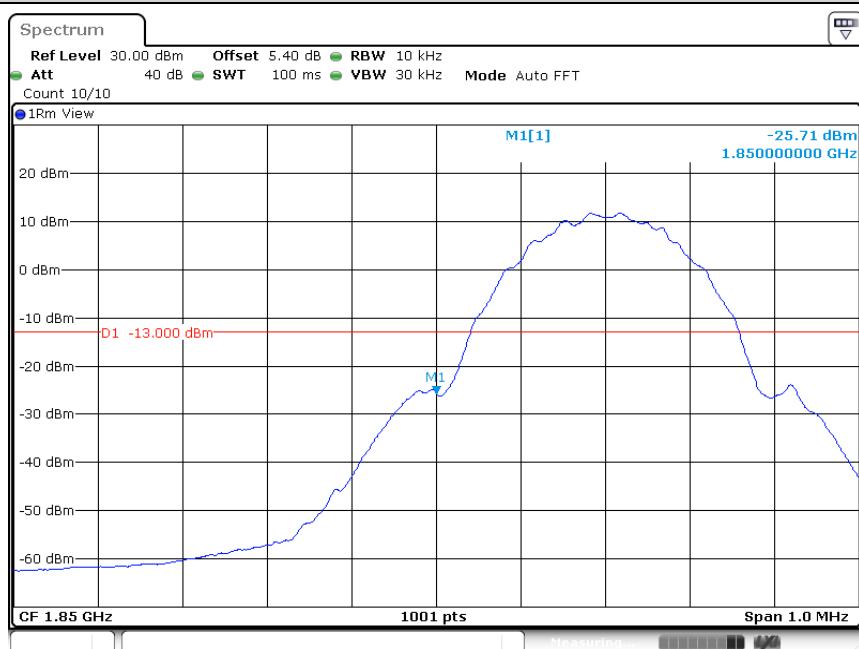
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GSM1900-512



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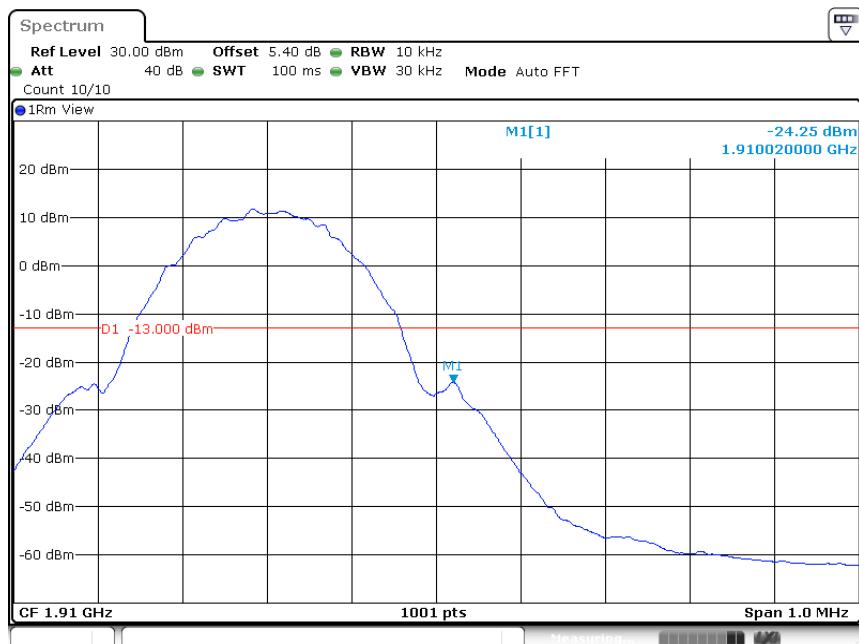
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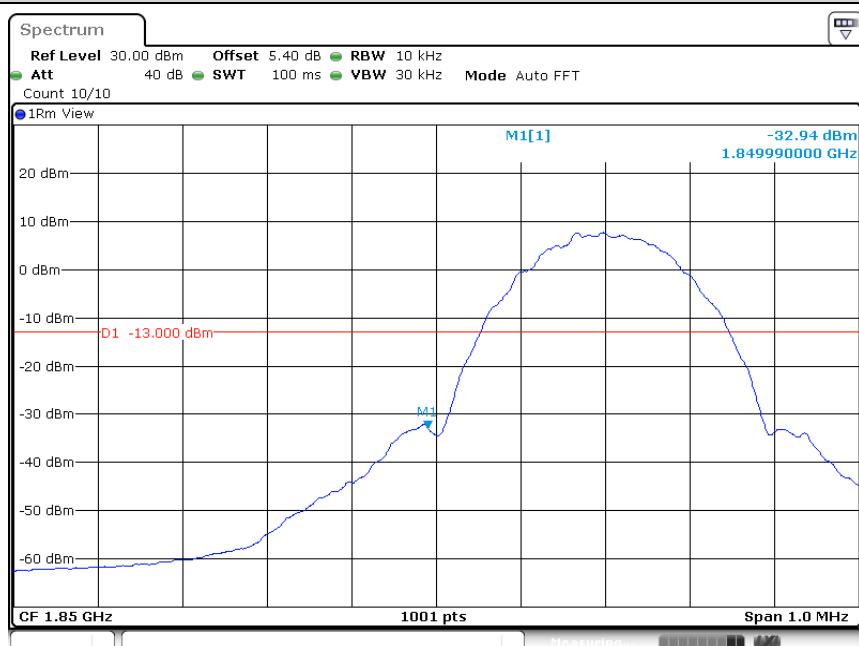
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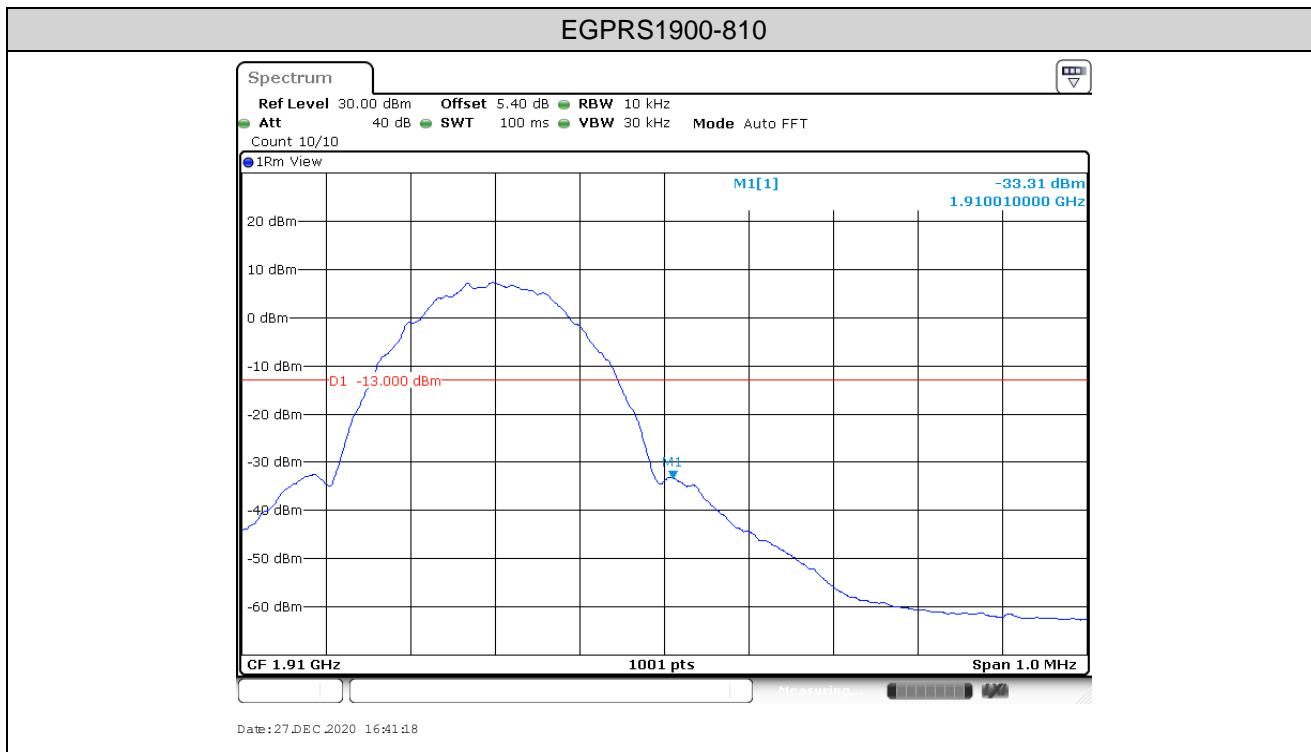
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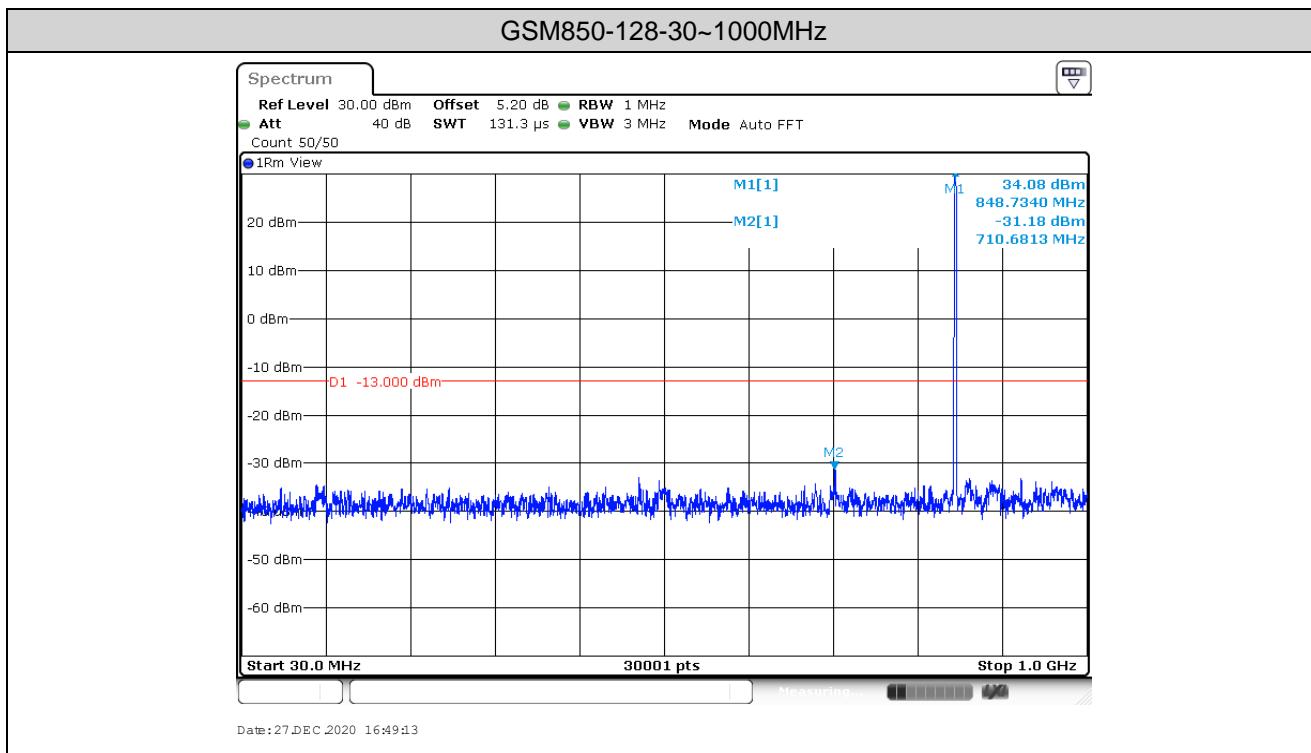
6. Spurious Emission at Antenna Terminal

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 $< \text{RBW}/2$ so that narrowband signals are not lost between frequency bins. As to the present test item, the "Measurement Points = $k * (\text{Span} / \text{RBW})$ " with k between 4 and 5, which results in an acceptable level error of less than 0.5 dB.

Remark2: According to KDB971168 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.

Remark3: The disturbance 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.

6.1. Test Plots



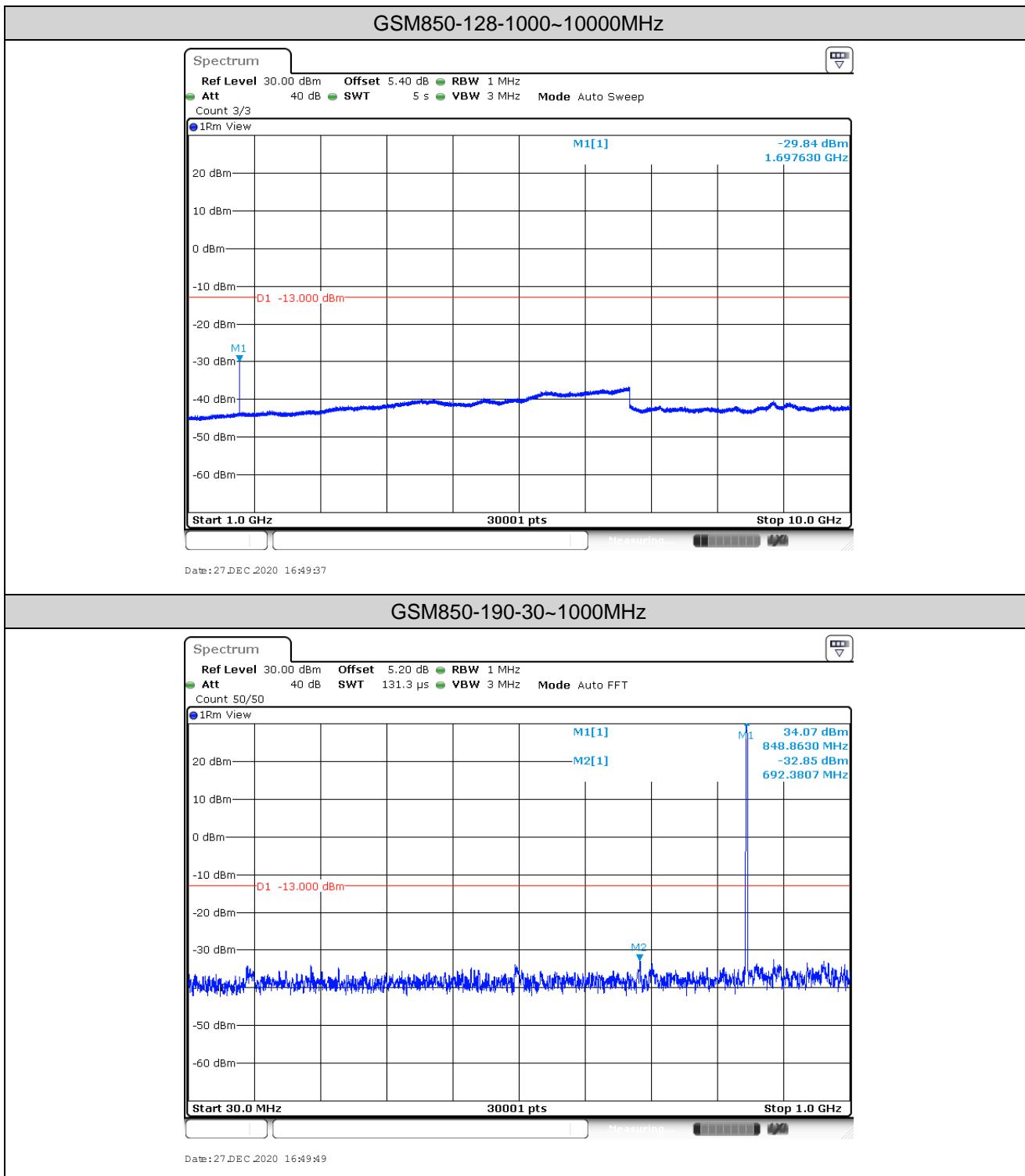
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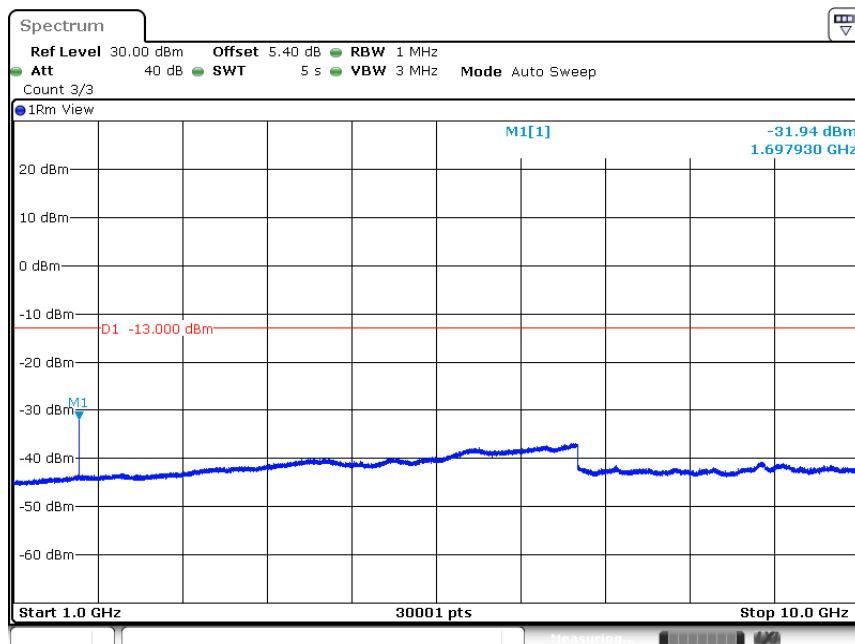
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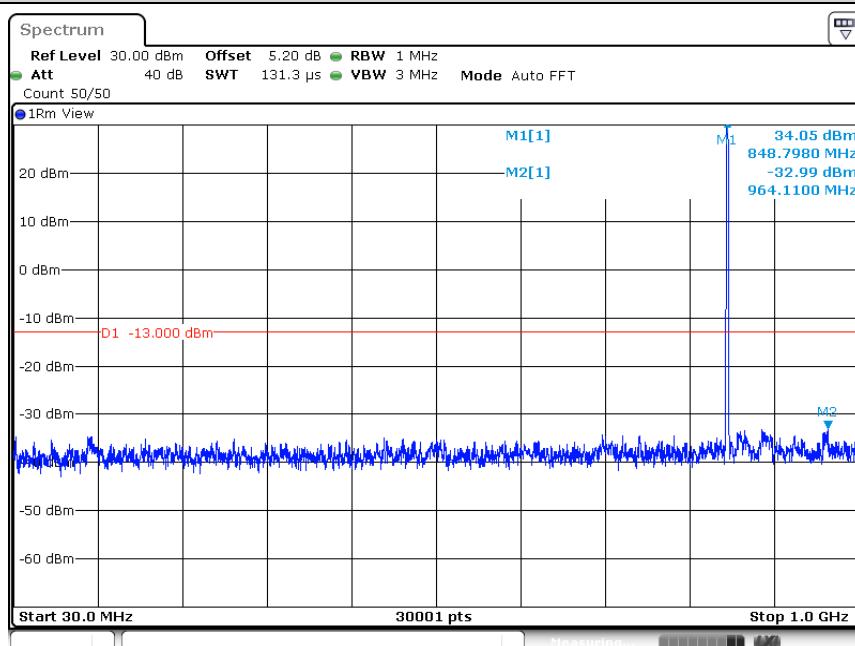
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GSM850-190-1000~10000MHz



Date: 27 DEC 2020 16:50:13

GSM850-251-30~1000MHz



Date: 27 DEC 2020 16:50:24

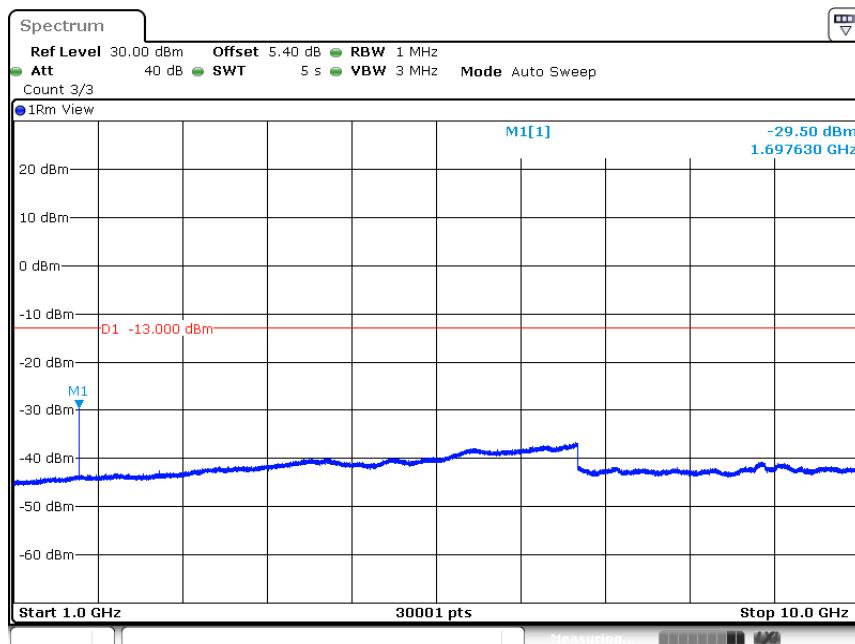
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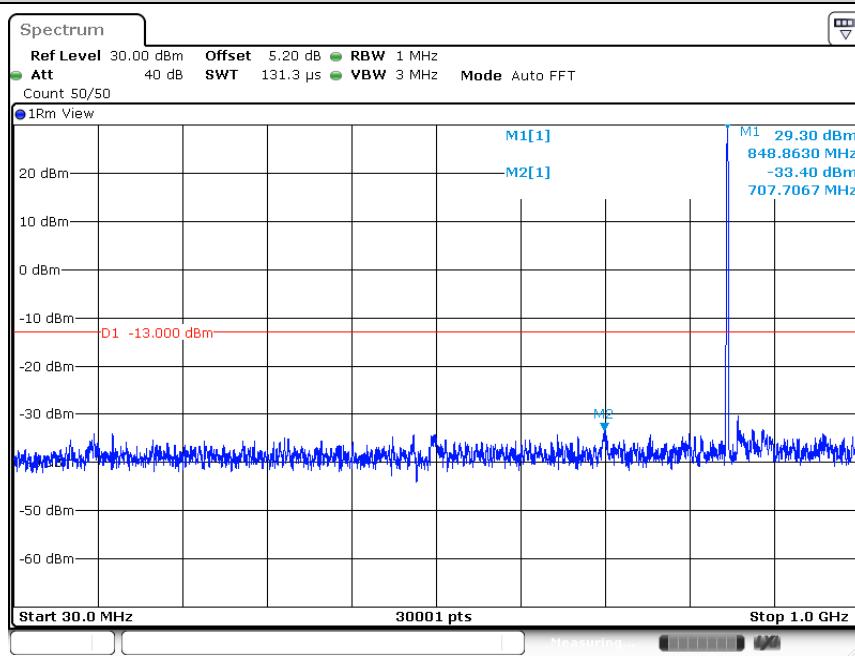


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GSM850-251-1000~10000MHz

Date: 27 DEC 2020 16:50:49

EGPRS850-128-30~1000MHz

Date: 27 DEC 2020 16:54:56

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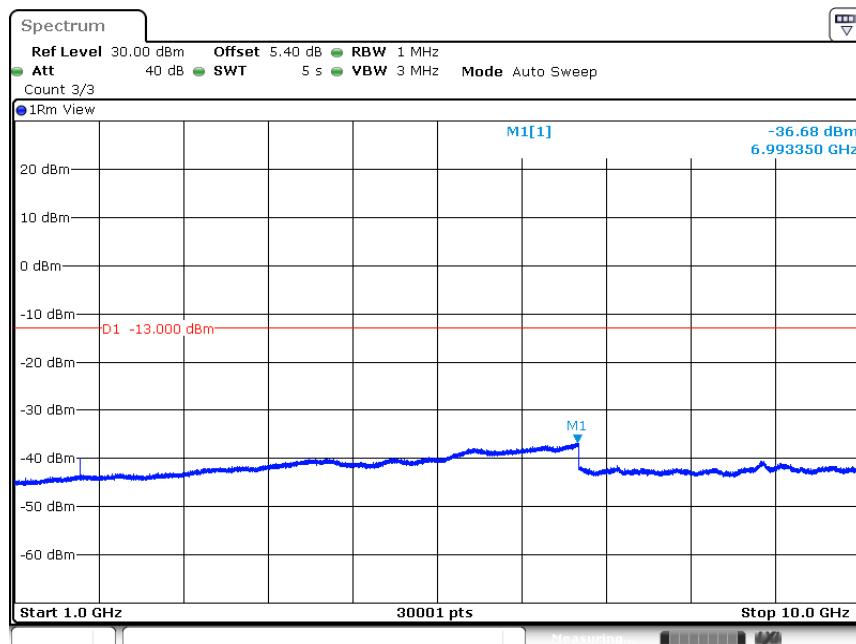
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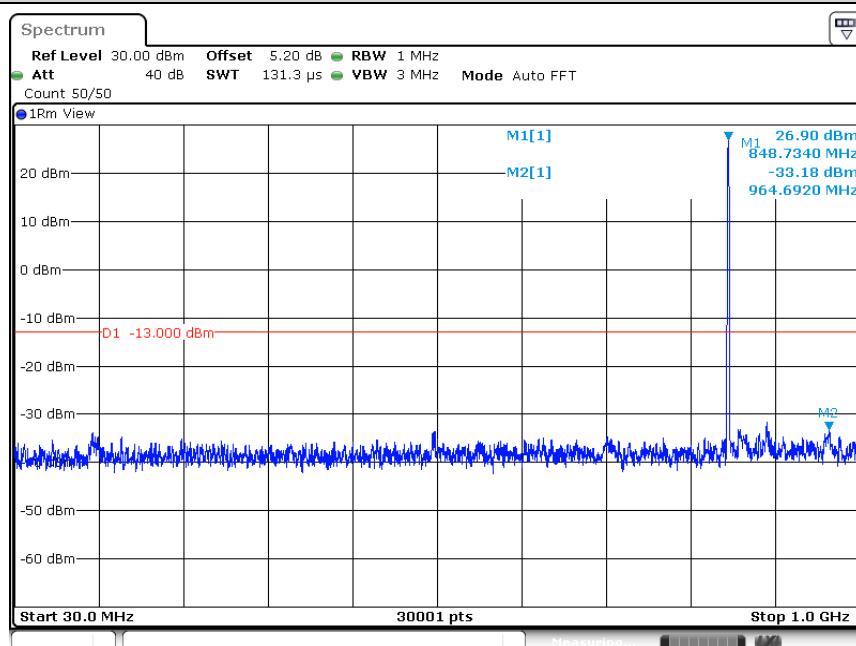
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EGPRS850-128-1000~10000MHz



Date: 27 DEC 2020 16:55:20

EGPRS850-190-30~1000MHz



Date: 27 DEC 2020 16:55:32

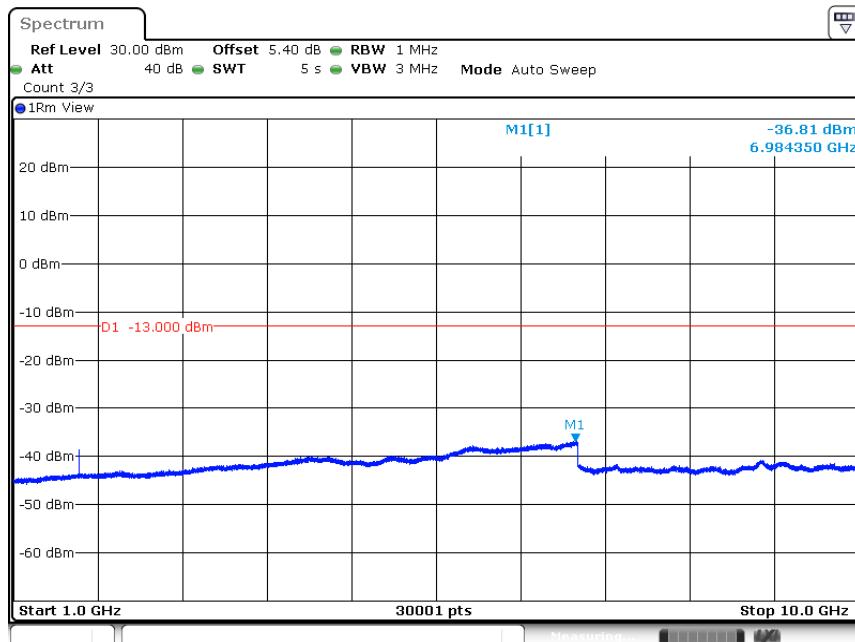
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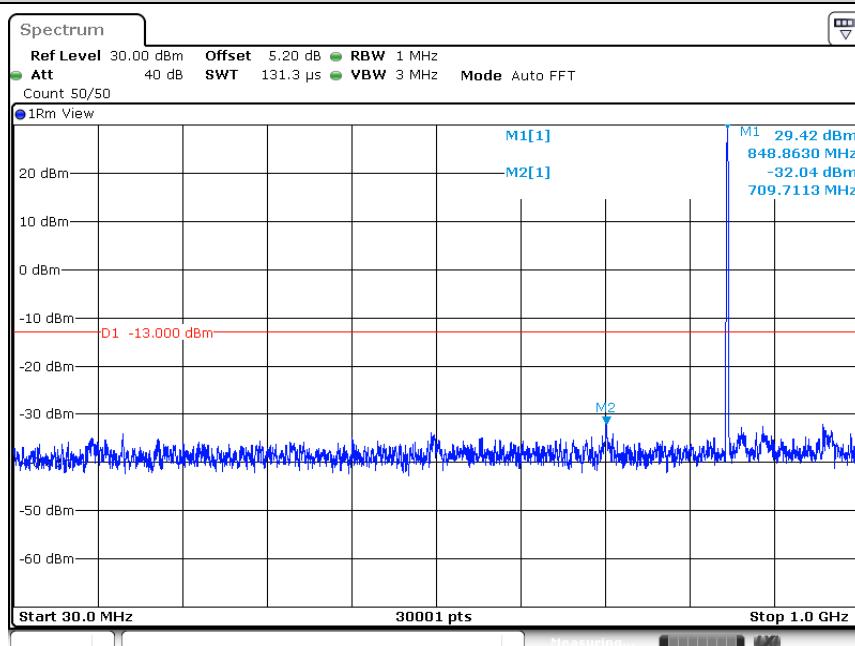
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EGPRS850-190-1000~10000MHz



Date: 27 DEC 2020 16:55:56

EGPRS850-251-30~1000MHz



Date: 27 DEC 2020 16:56:08

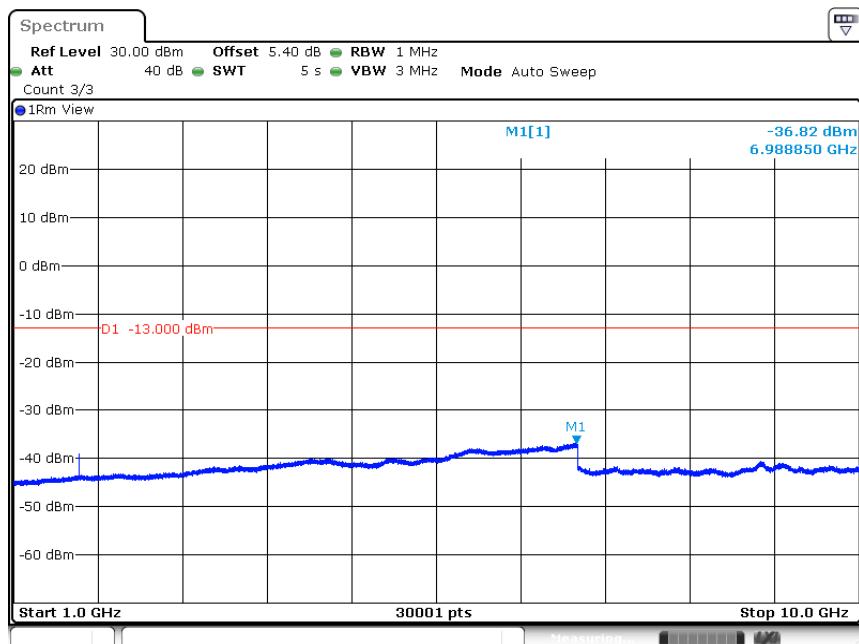
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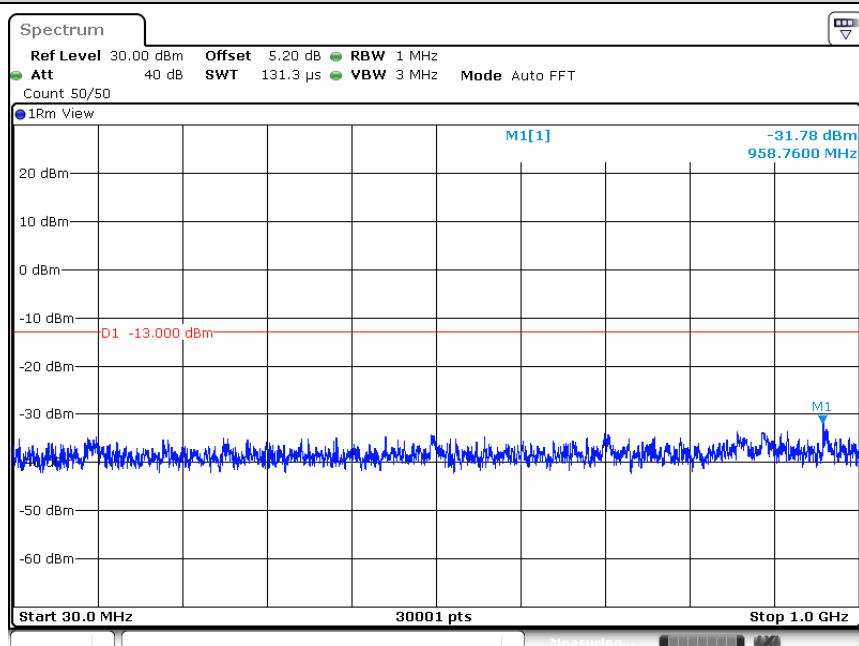
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EGPRS850-251-1000~10000MHz



Date: 27 DEC 2020 16:56:33

GSM1900-512-30~1000MHz



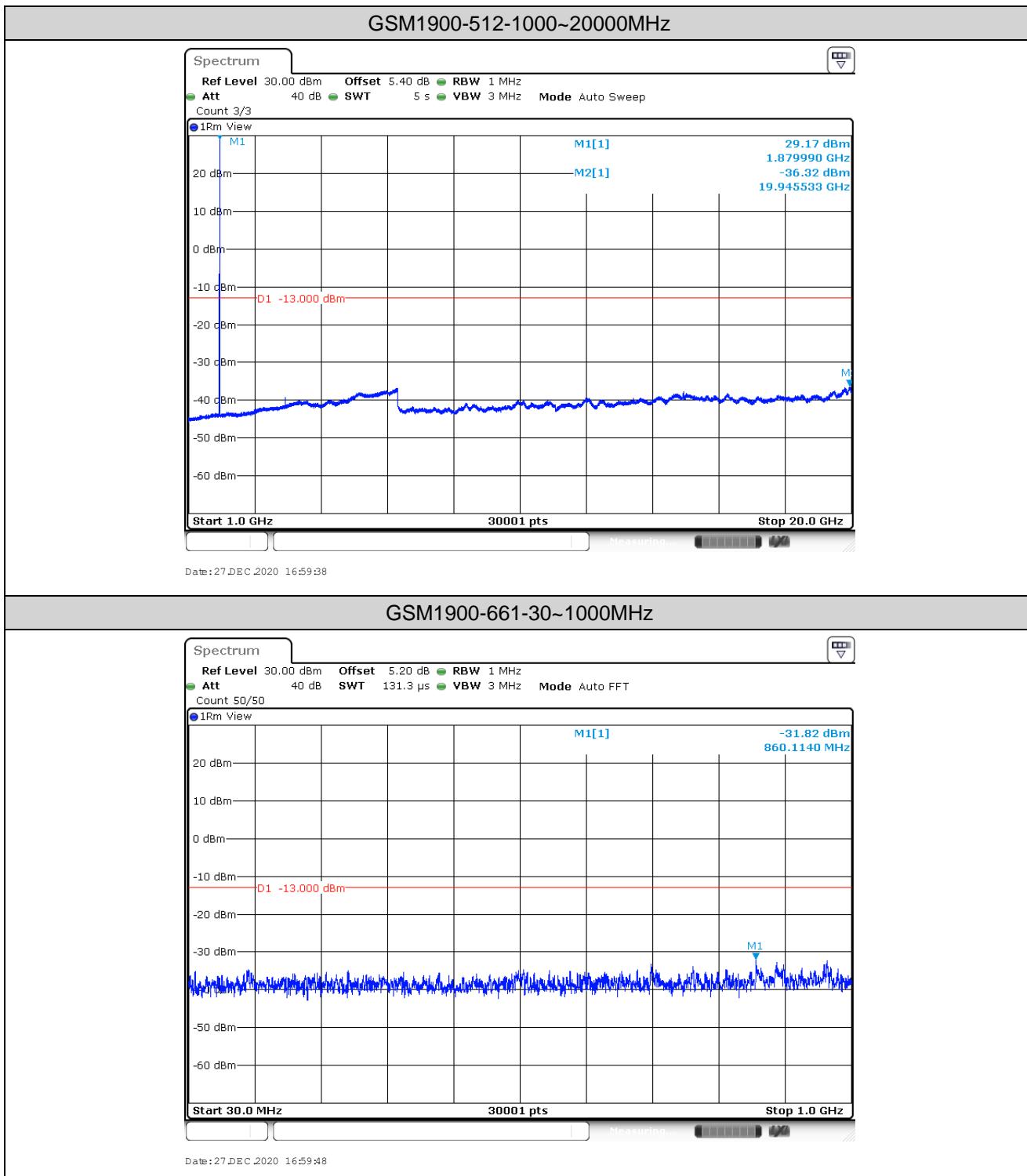
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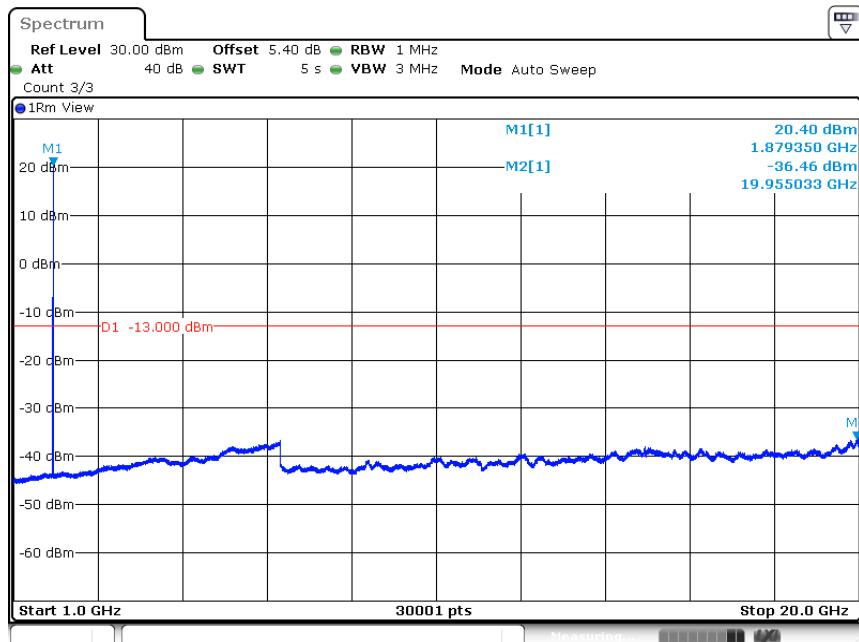


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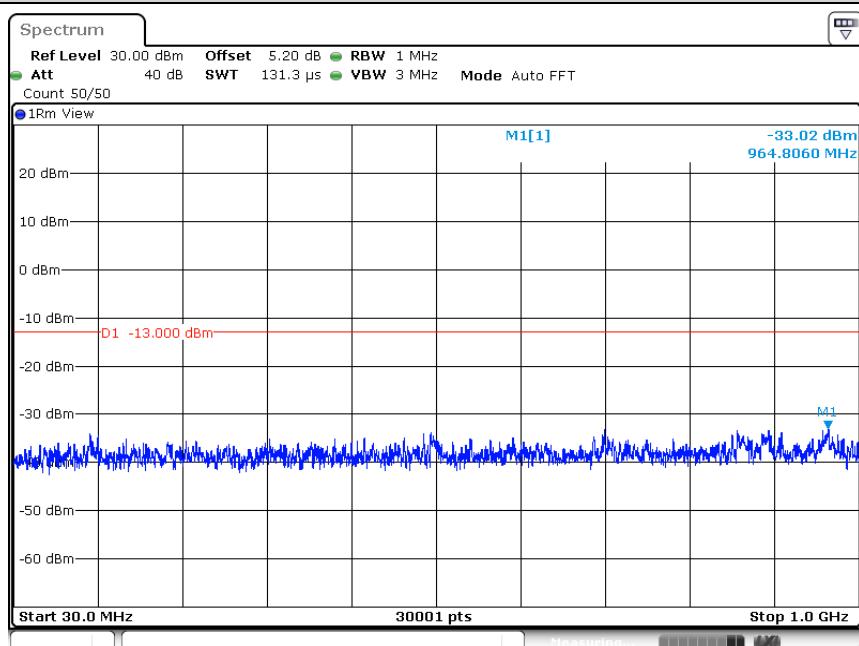


GSM1900-661-1000~20000MHz



Date: 27 DEC 2020 17:00:14

GSM1900-810-30~1000MHz



Date: 27 DEC 2020 17:00:24

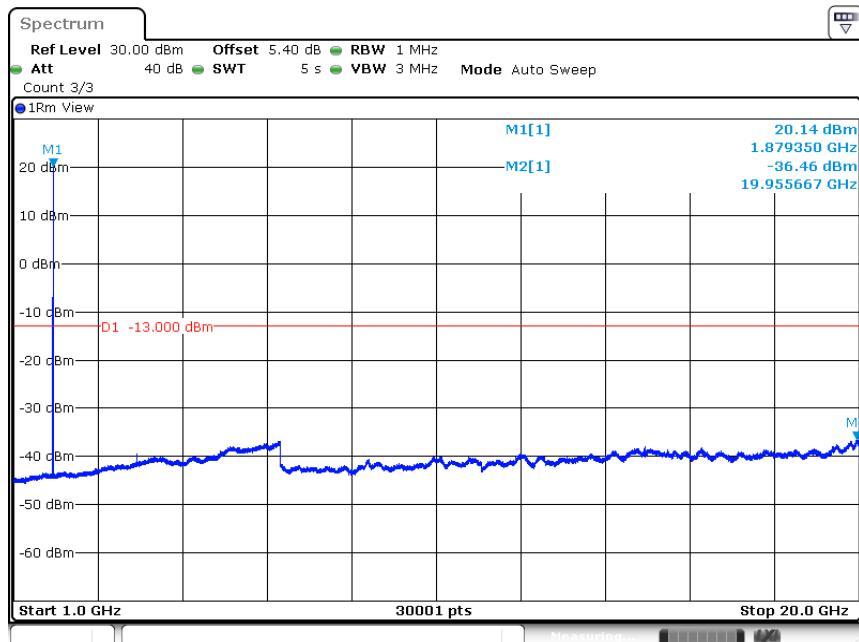
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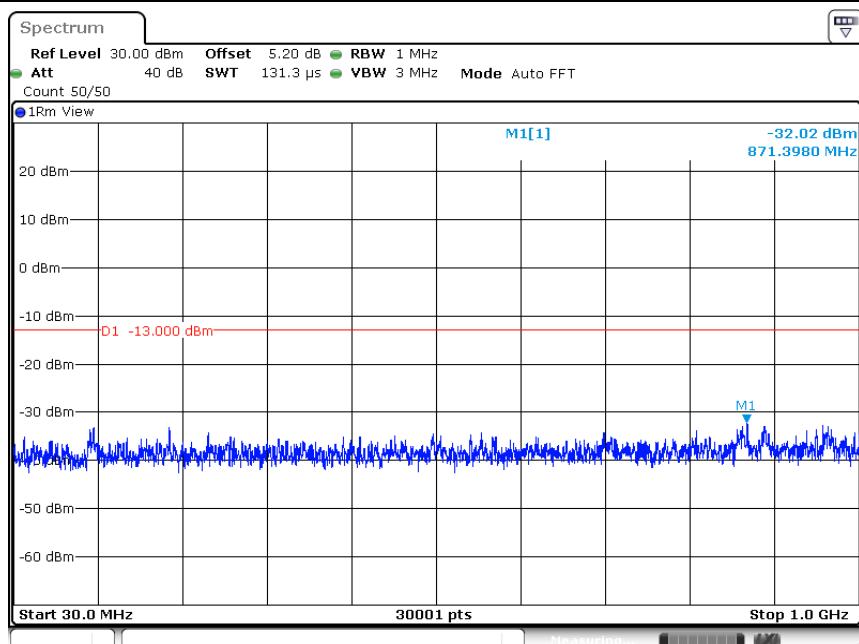
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GSM1900-810-1000~20000MHz



Date: 27 DEC 2020 17:00:49

EGPRS1900-512-30~1000MHz



Date: 27 DEC 2020 17:01:23

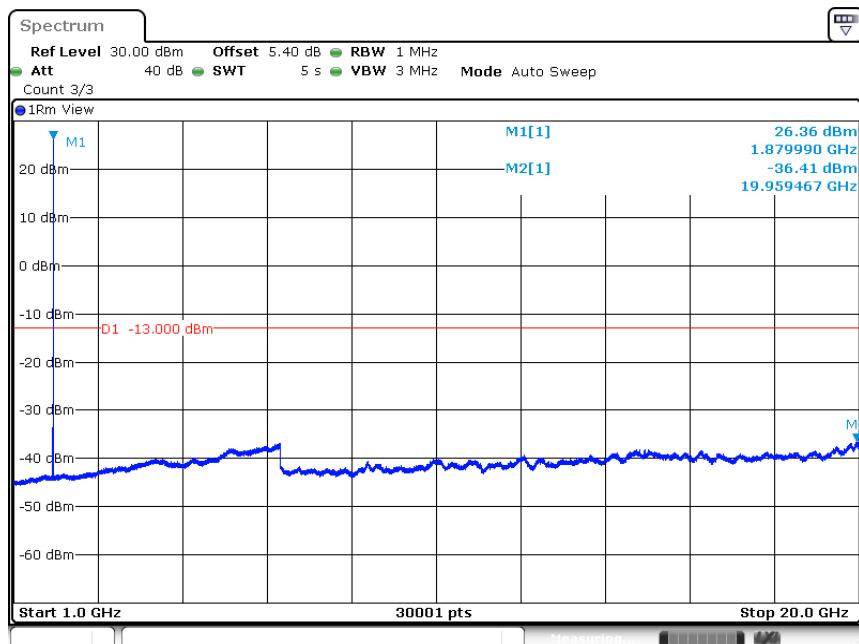
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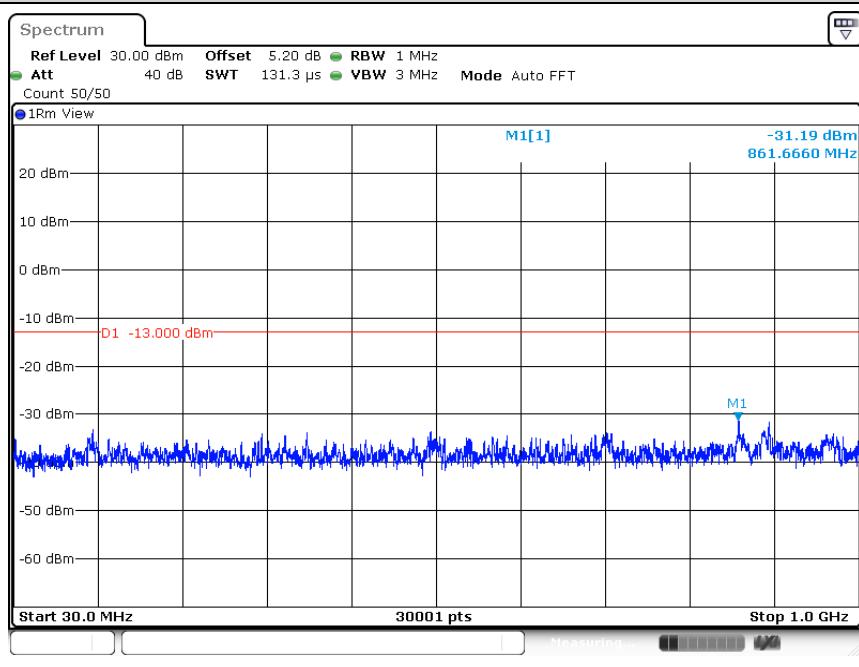


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EGPRS1900-661-30~1000MHz

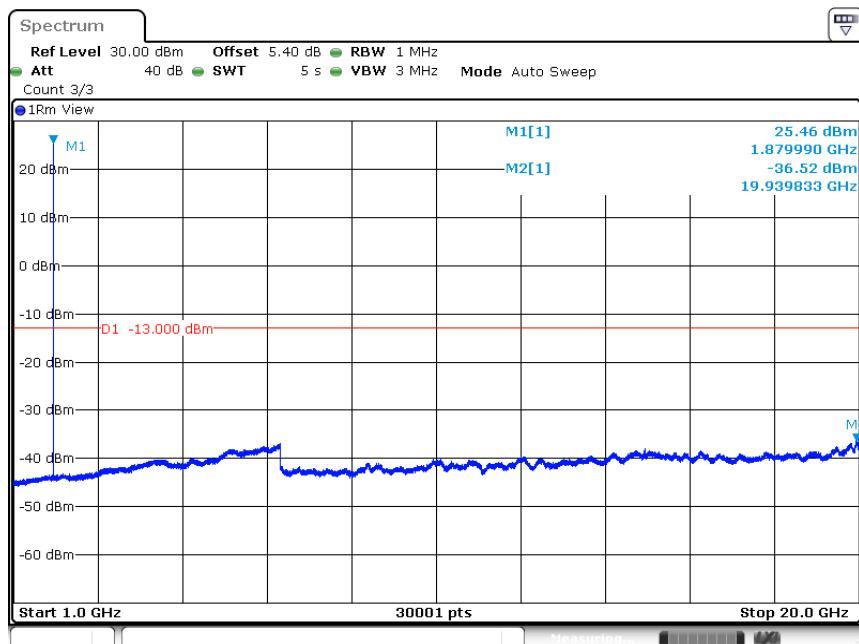


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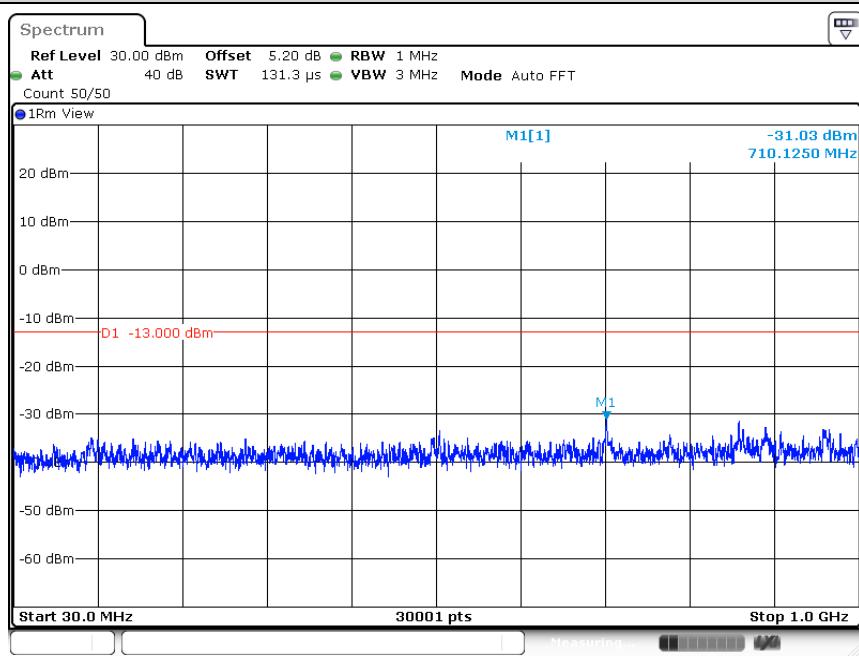
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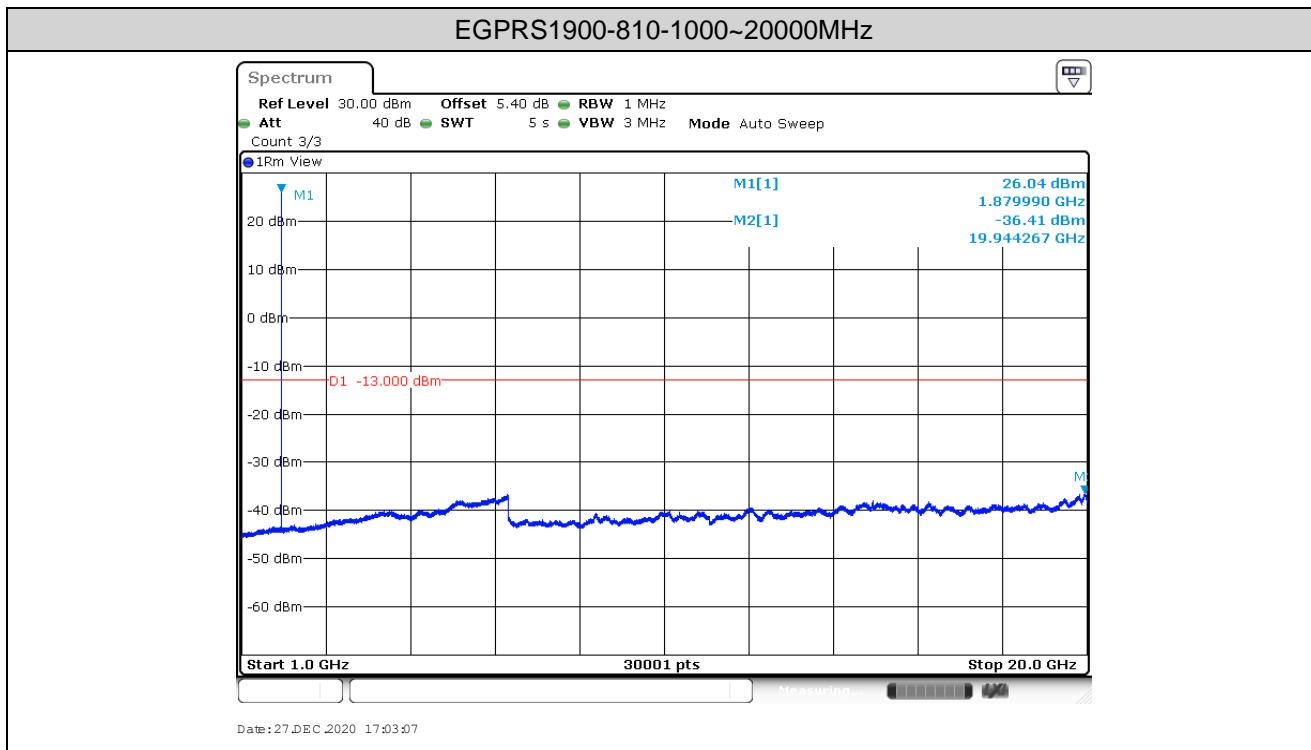
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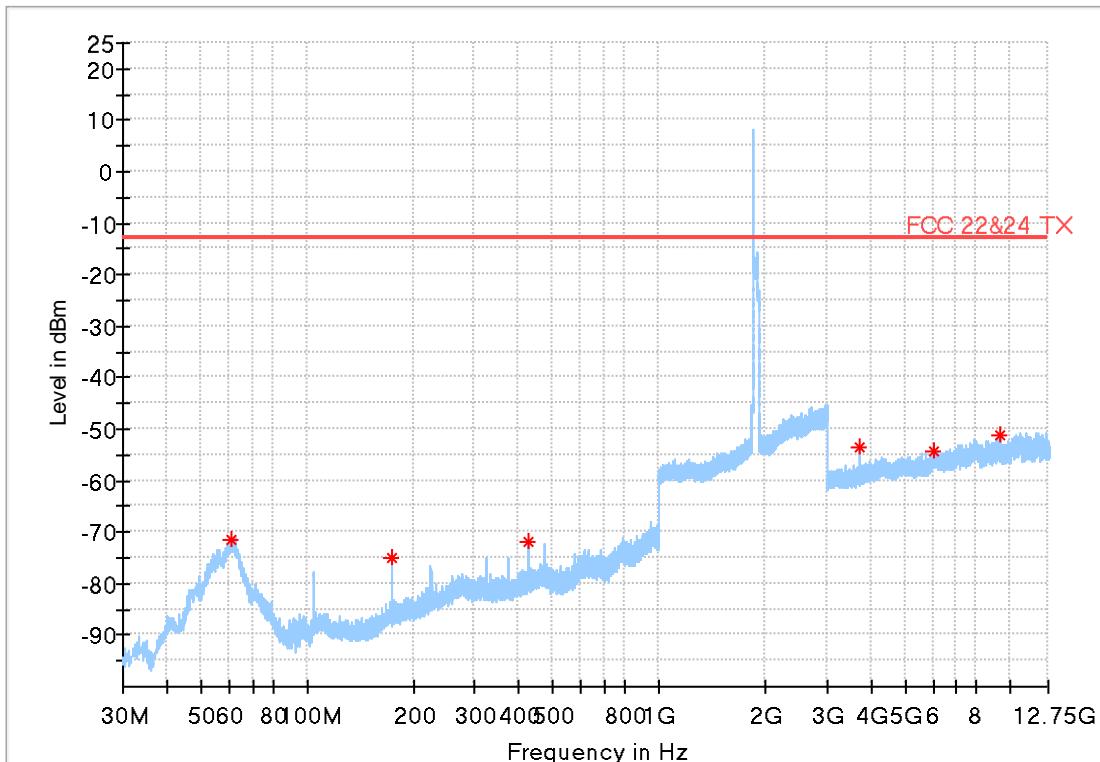


7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900(DOWN ANTENNA)

7.1.1. Test Channel = LCH

Full Spectrum



Critical_Freqs

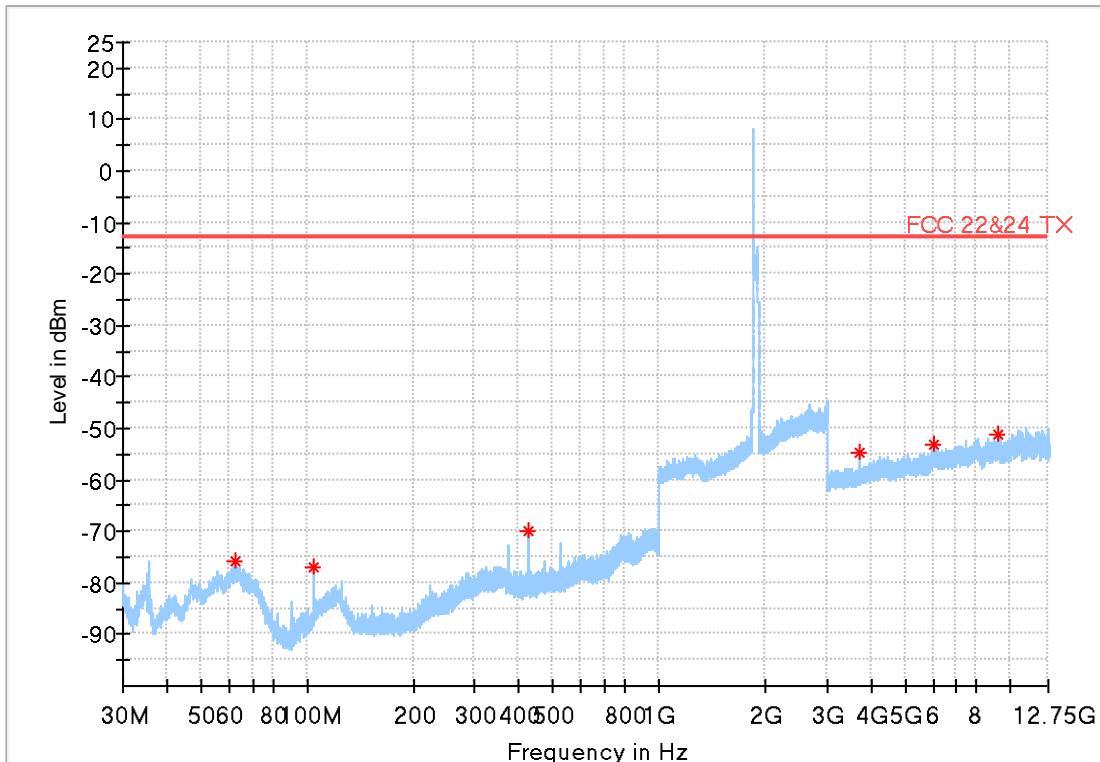
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.234000	-71.39	-13.00	58.39	---	---	232	H	69.0	-105.0
174.627000	-75.19	-13.00	62.19	---	---	253	H	115.0	-116.7
425.372000	-71.69	-13.00	58.69	---	---	168	H	0.0	-108.8
3700.000000	-53.59	-13.00	40.59	---	---	220	H	315.0	-104.5
6048.850000	-54.17	-13.00	41.17	---	---	250	H	107.0	-99.8
9250.650000	-51.10	-13.00	38.10	---	---	155	H	121.0	-96.7



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Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
62.592000	-75.60	-13.00	62.60	---	---	289	V	160.0	-110.5
104.253500	-76.77	-13.00	63.77	---	---	268	V	301.0	-118.0
425.275000	-69.84	-13.00	56.84	---	---	174	V	219.0	-109.7
3700.000000	-54.53	-13.00	41.53	---	---	251	V	248.0	-104.4
6053.050000	-53.19	-13.00	40.19	---	---	267	V	29.0	-99.6
9237.000000	-51.22	-13.00	38.22	---	---	197	V	199.0	-96.8

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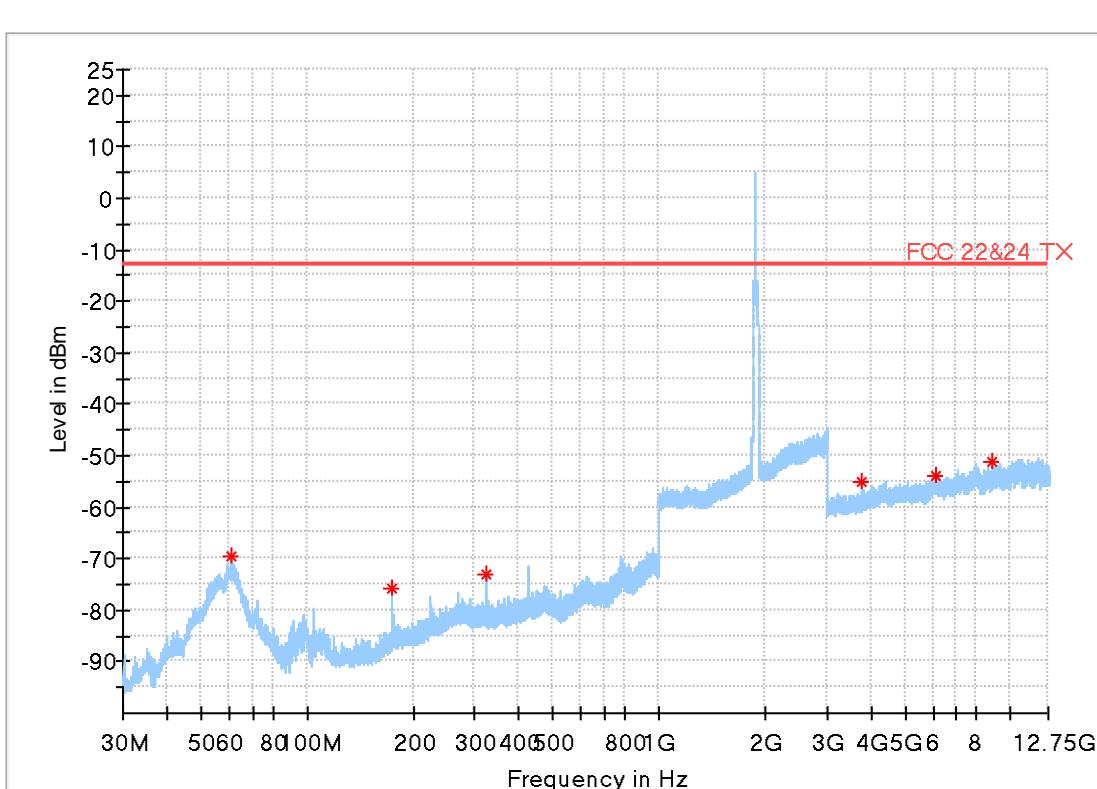
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7.1.2. Test Channel = MCH



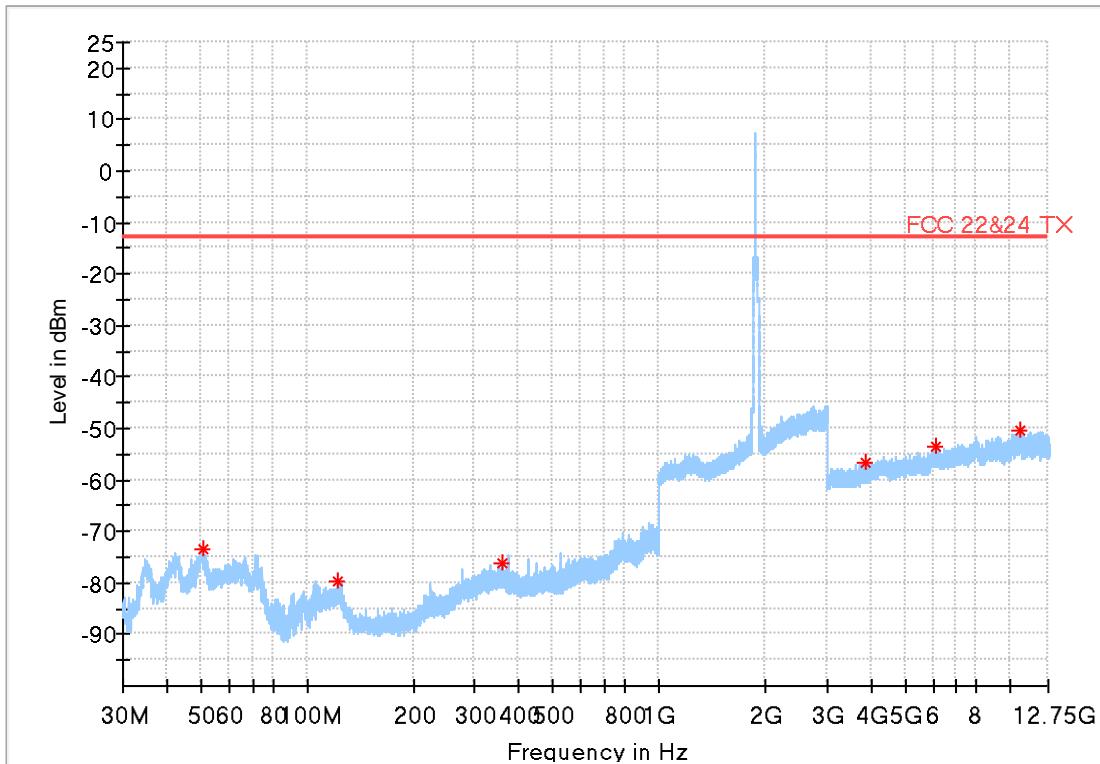
Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.894500	-69.72	-13.00	56.72	---	---	152	H	112.0	-104.9
174.675500	-75.59	-13.00	62.59	---	---	228	H	301.0	-116.7
324.783000	-73.11	-13.00	60.11	---	---	240	H	358.0	-110.8
3760.200000	-55.23	-13.00	42.23	---	---	187	H	316.0	-104.2
6147.550000	-53.77	-13.00	40.77	---	---	223	H	89.0	-99.9
8868.100000	-51.10	-13.00	38.10	---	---	293	H	34.0	-97.0

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Full Spectrum



Critical_Freqs

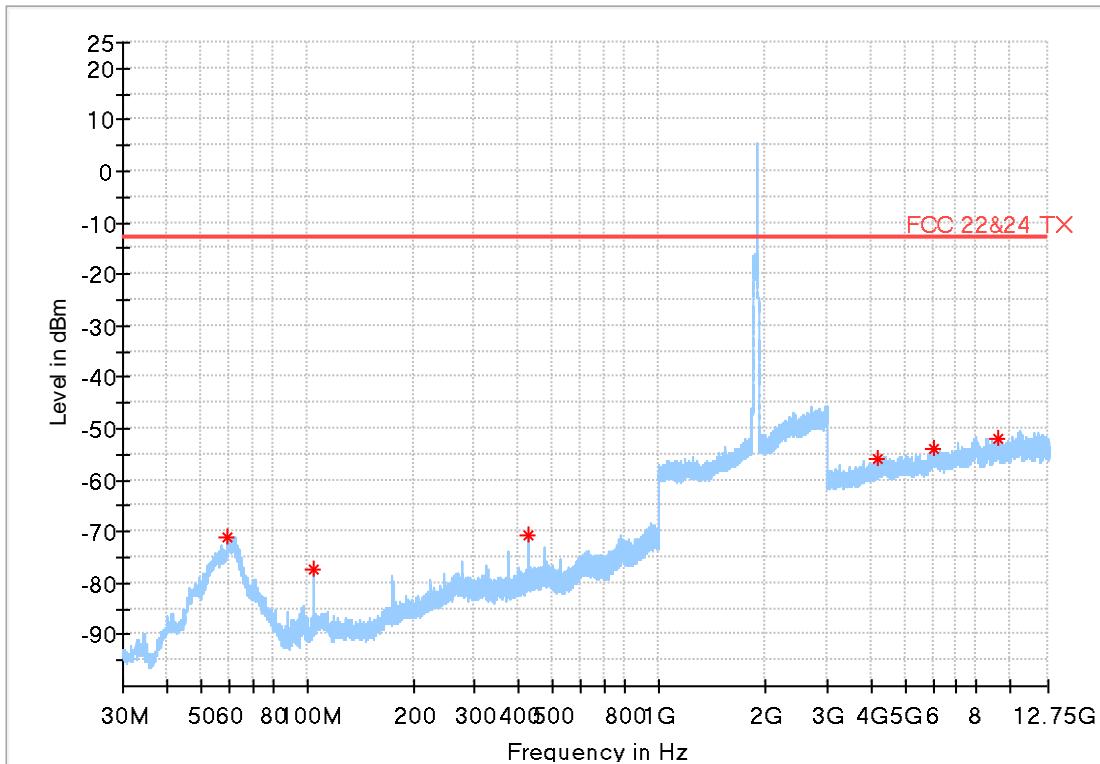
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
50.418500	-73.61	-13.00	60.61	---	---	292	V	188.0	-114.0
122.586500	-79.65	-13.00	66.65	---	---	224	V	291.0	-113.6
357.181000	-76.12	-13.00	63.12	---	---	180	V	125.0	-108.3
3847.350000	-56.61	-13.00	43.61	---	---	189	V	234.0	-103.8
6077.550000	-53.39	-13.00	40.39	---	---	204	V	16.0	-99.7
10639.237500	-50.52	-13.00	37.52	---	---	255	V	355.0	-96.3

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7.1.3. Test Channel = HCH

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.488000	-71.17	-13.00	58.17	---	---	152	H	257.0	-104.6
104.302000	-77.52	-13.00	64.52	---	---	200	H	208.0	-120.8
425.275000	-70.71	-13.00	57.71	---	---	299	H	13.0	-108.8
4180.200000	-55.95	-13.00	42.95	---	---	259	H	198.0	-103.0
6058.300000	-53.79	-13.00	40.79	---	---	197	H	1.0	-99.7
9214.950000	-51.80	-13.00	38.80	---	---	224	H	246.0	-96.7

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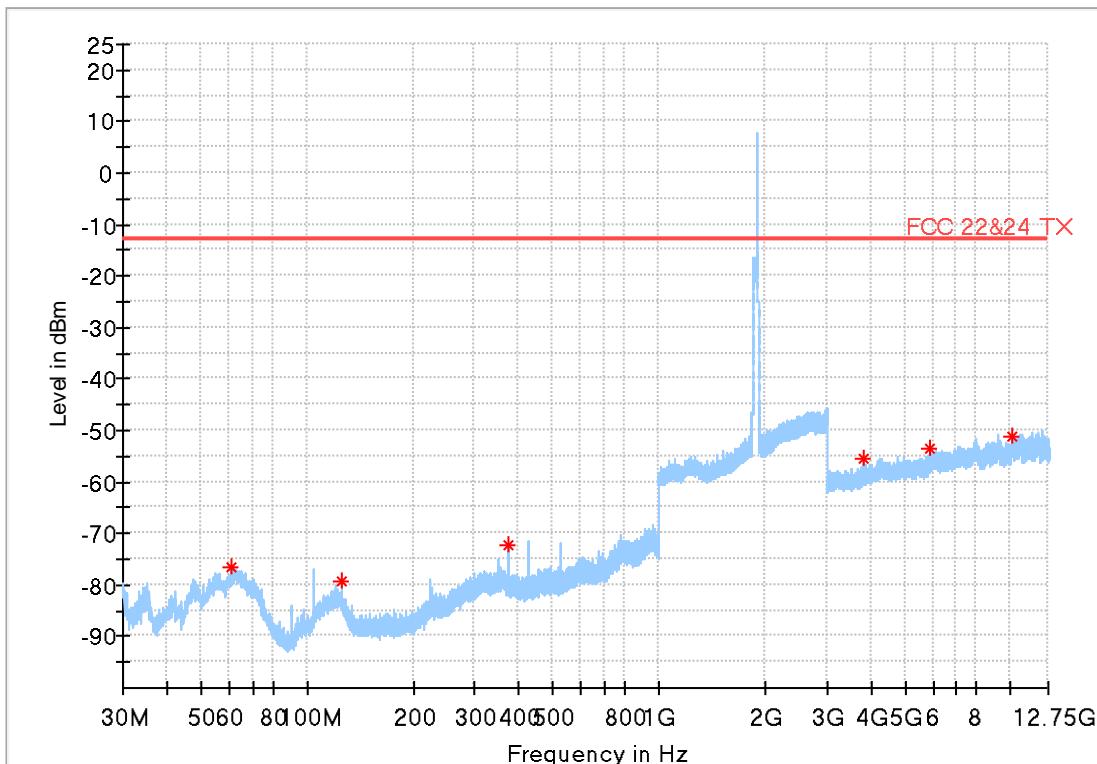
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Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.185500	-76.73	-13.00	63.73	---	---	293	V	202.0	-110.9
124.963000	-79.16	-13.00	66.16	---	---	210	V	0.0	-114.3
375.029000	-72.42	-13.00	59.42	---	---	244	V	268.0	-109.2
3819.350000	-55.40	-13.00	42.40	---	---	201	V	0.0	-103.9
5868.950000	-53.66	-13.00	40.66	---	---	173	V	58.0	-100.7
10040.562500	-51.00	-13.00	38.00	---	---	214	V	221.0	-96.8

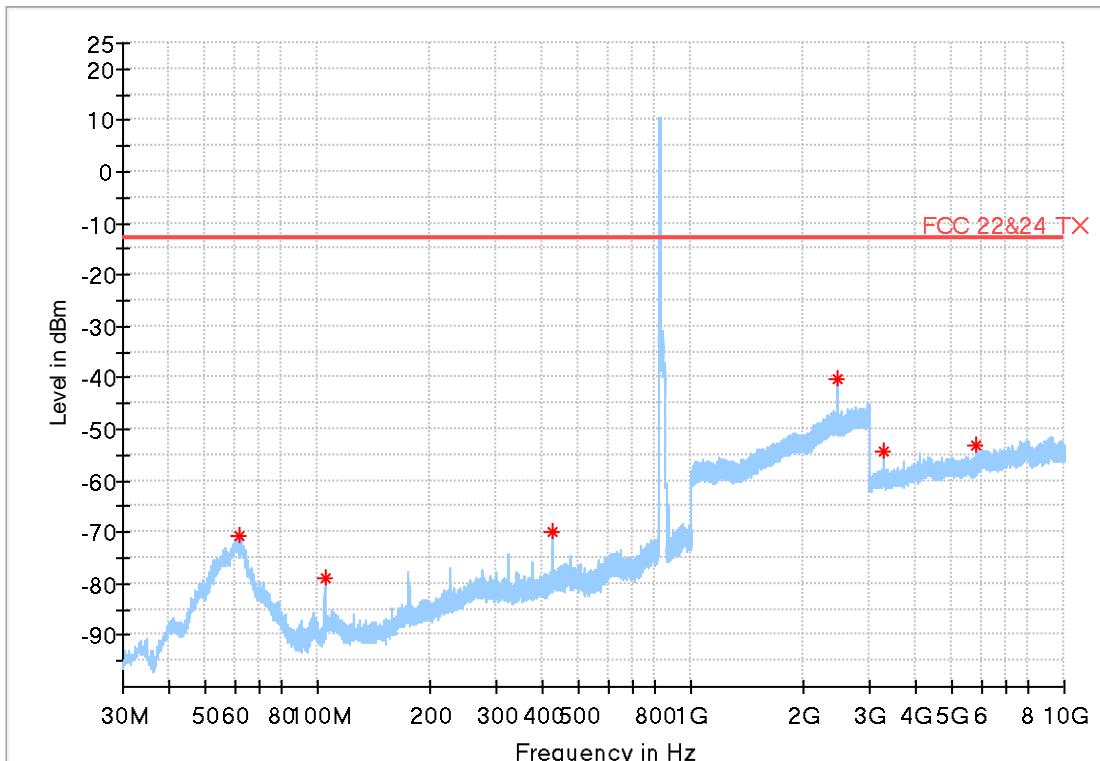


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7.2. Test Band = GSM 850(DOWN ANTENNA)**7.2.1. Test Channel = LCH**

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.719000	-70.68	-13.00	57.68	---	---	180	H	52.0	-105.2
104.302000	-78.85	-13.00	65.85	---	---	231	H	323.0	-121.0
425.323500	-69.90	-13.00	56.90	---	---	299	H	0.0	-108.9
2473.275000	-40.35	-13.00	27.35	---	---	196	H	243.0	-88.6
3296.800000	-54.28	-13.00	41.28	---	---	274	H	183.0	-105.3
5769.550000	-53.14	-13.00	40.14	---	---	270	H	230.0	-101.1

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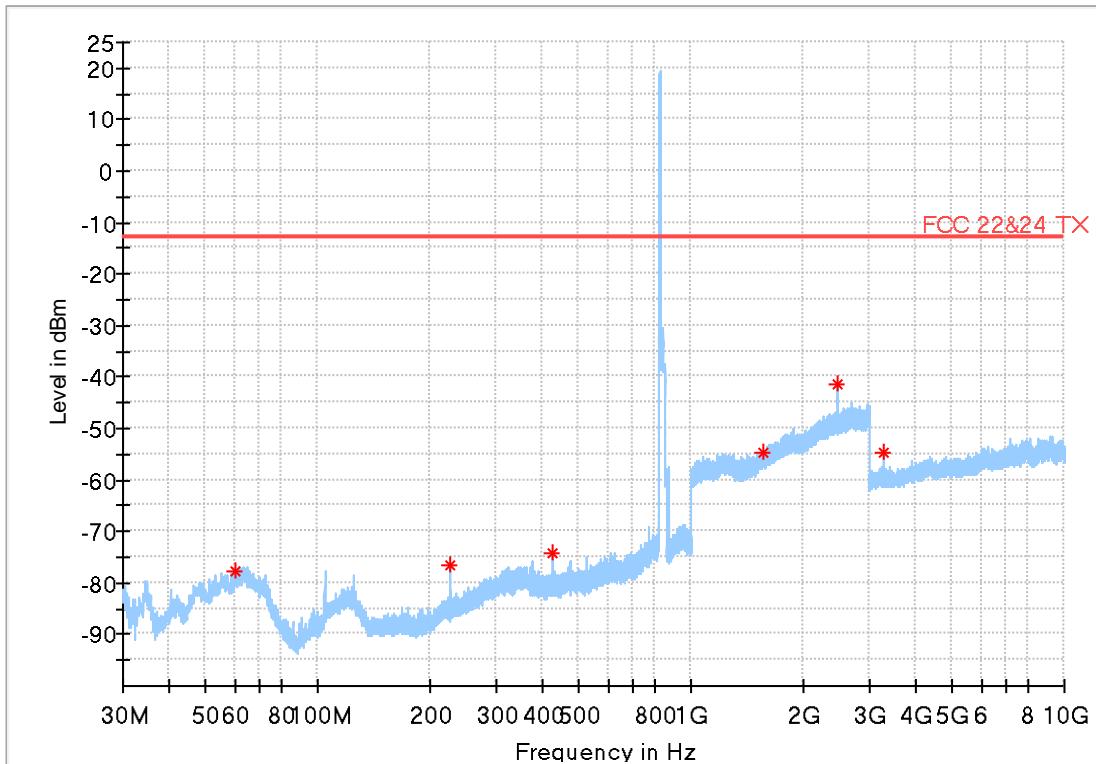
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Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.167000	-77.66	-13.00	64.66	---	---	236	V	126.0	-111.2
225.018500	-76.45	-13.00	63.45	---	---	201	V	208.0	-114.8
425.226500	-74.38	-13.00	61.38	---	---	192	V	228.0	-109.8
1559.550000	-54.66	-13.00	41.66	---	---	294	V	179.0	-96.0
2472.150000	-41.36	-13.00	28.36	---	---	229	V	205.0	-88.5
3296.800000	-54.71	-13.00	41.71	---	---	200	V	246.0	-105.1

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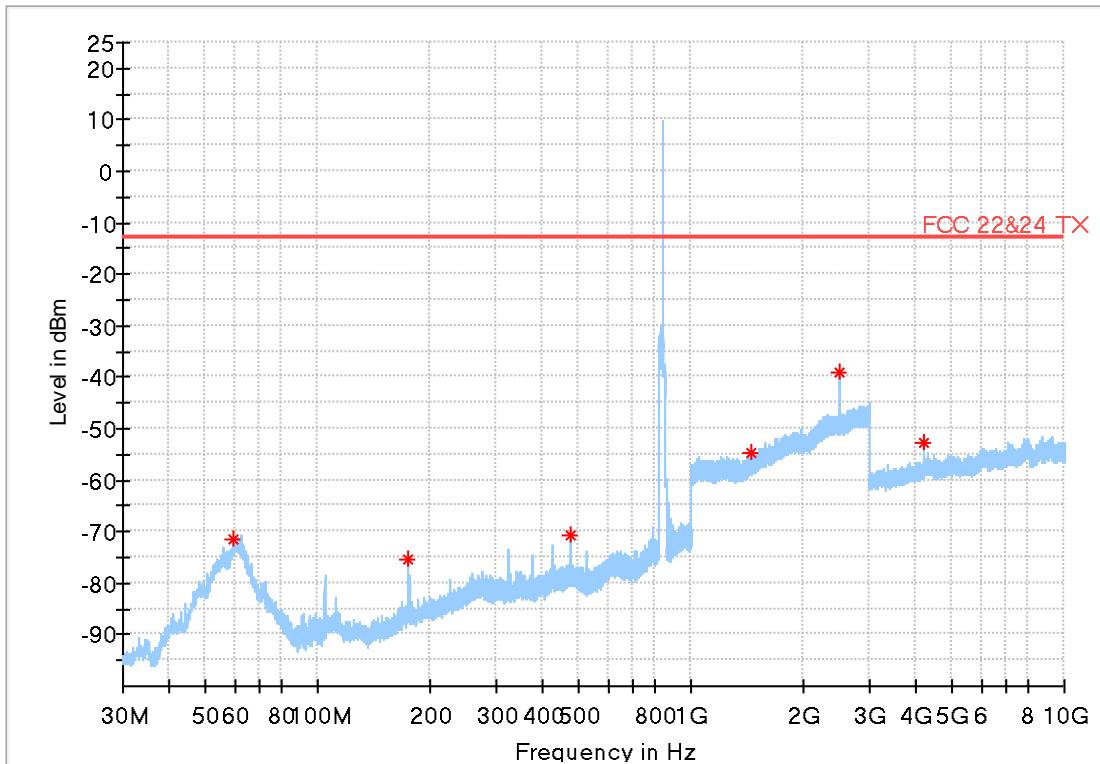


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7.2.2. Test Channel = MCH

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.051500	-71.34	-13.00	58.34	---	---	206	H	289.0	-105.0
174.772500	-75.48	-13.00	62.48	---	---	207	H	309.0	-117.0
474.696500	-70.70	-13.00	57.70	---	---	232	H	296.0	-107.9
1445.025000	-54.83	-13.00	41.83	---	---	286	H	183.0	-97.0
2509.500000	-38.95	-13.00	25.95	---	---	292	H	143.0	-88.8
4182.650000	-52.69	-13.00	39.69	---	---	165	H	232.0	-103.0

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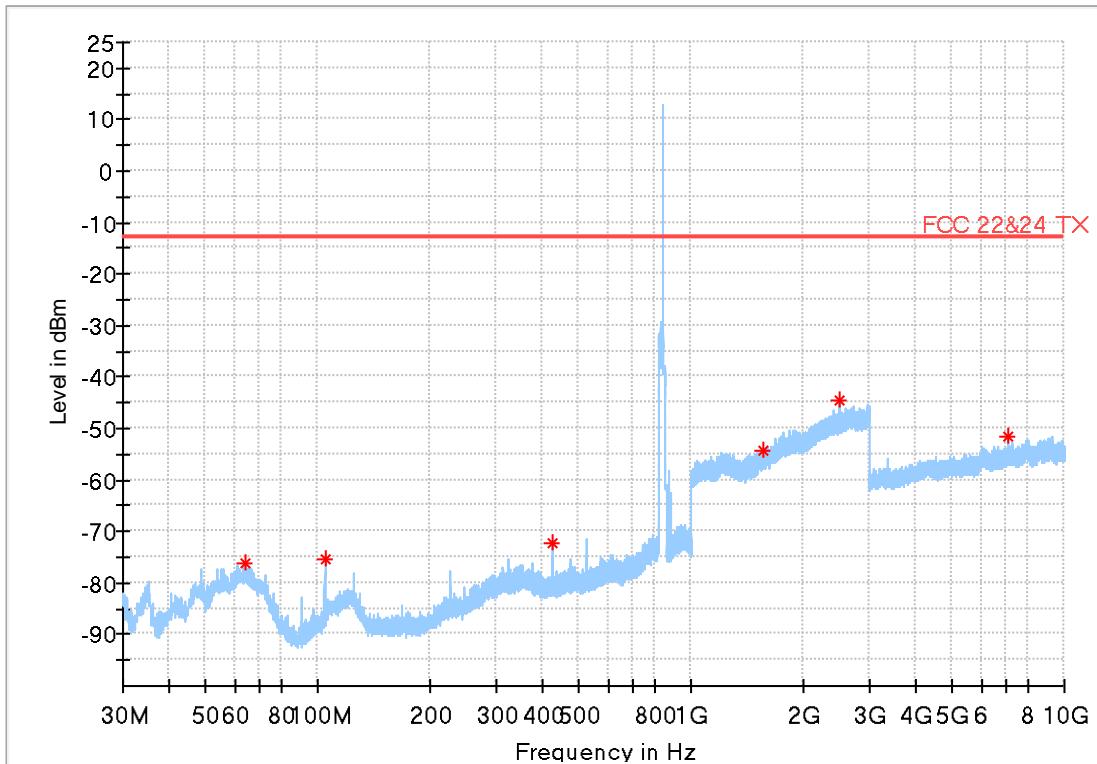
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Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.659000	-76.02	-13.00	63.02	---	---	286	V	329.0	-110.5
104.302000	-75.43	-13.00	62.43	---	---	203	V	181.0	-118.2
425.275000	-72.24	-13.00	59.24	---	---	251	V	194.0	-109.8
1556.550000	-54.22	-13.00	41.22	---	---	291	V	248.0	-96.1
2509.875000	-44.37	-13.00	31.37	---	---	285	V	351.0	-88.5
7066.300000	-51.64	-13.00	38.64	---	---	249	V	182.0	-98.8

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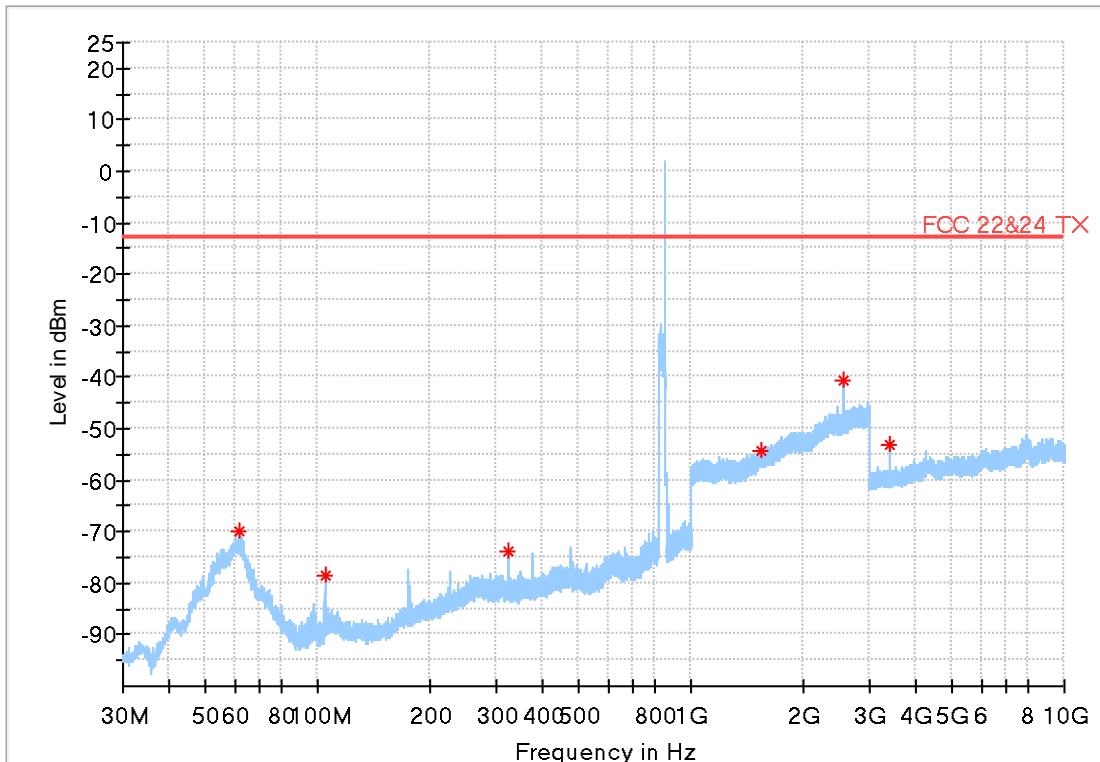


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7.2.3. Test Channel = HCH

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.622000	-69.73	-13.00	56.73	---	---	158	H	216.0	-105.2
104.302000	-78.63	-13.00	65.63	---	---	290	H	358.0	-121.0
324.637500	-73.87	-13.00	60.87	---	---	277	H	277.0	-110.9
1536.975000	-54.26	-13.00	41.26	---	---	269	H	277.0	-95.6
2546.250000	-40.53	-13.00	27.53	---	---	261	H	236.0	-88.7
3395.500000	-53.04	-13.00	40.04	---	---	245	H	208.0	-105.7

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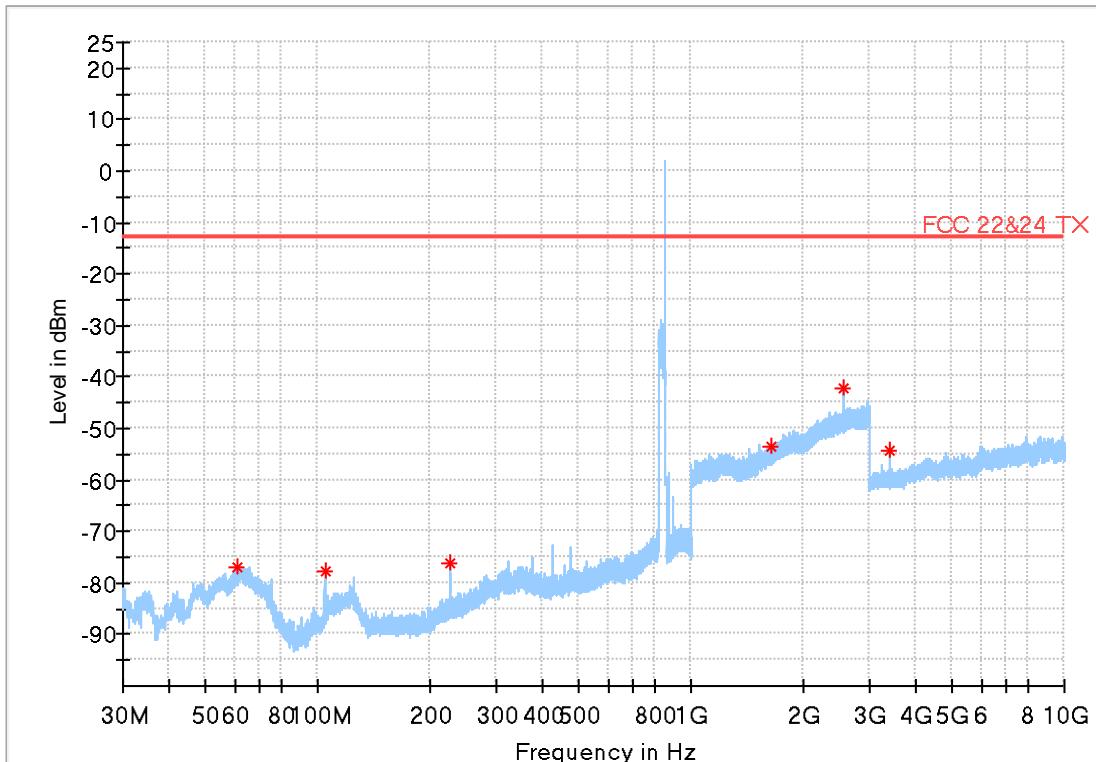
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Full Spectrum

**Critical_Freqs**

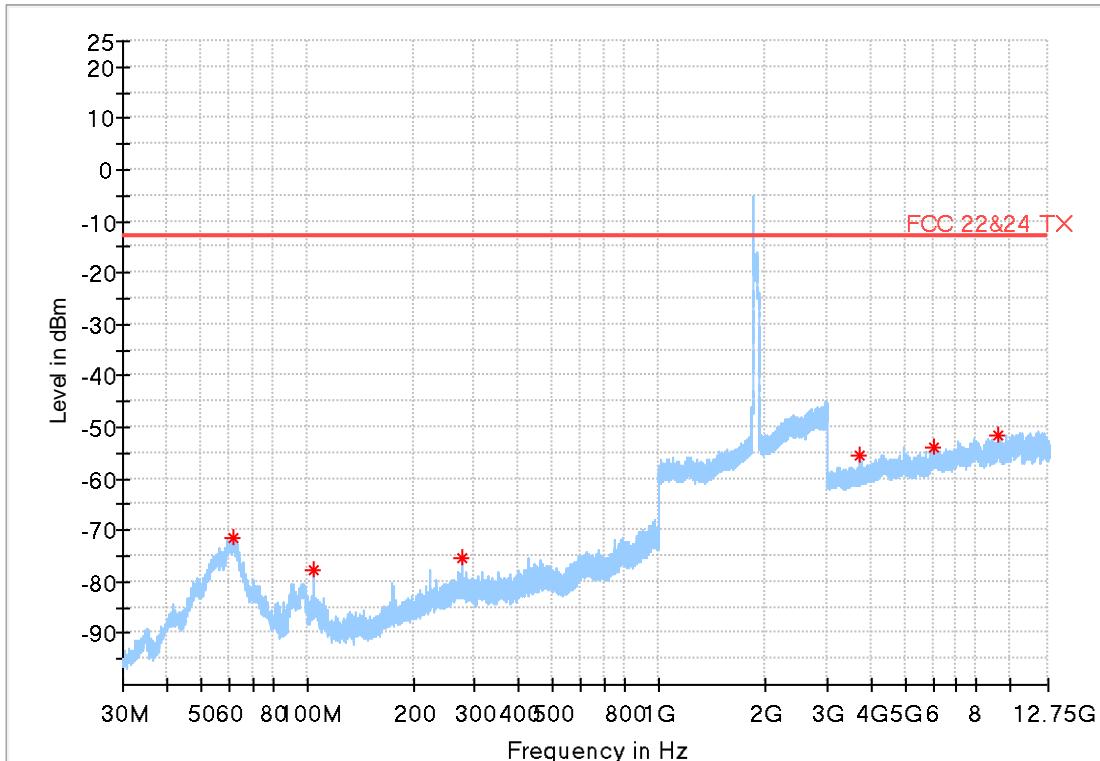
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.991500	-76.97	-13.00	63.97	---	---	203	V	66.0	-111.0
104.253500	-77.68	-13.00	64.68	---	---	166	V	52.0	-118.2
225.018500	-76.35	-13.00	63.35	---	---	265	V	222.0	-114.8
1633.650000	-53.47	-13.00	40.47	---	---	280	V	178.0	-95.0
2546.475000	-42.32	-13.00	29.32	---	---	160	V	212.0	-88.3
3394.800000	-54.12	-13.00	41.12	---	---	295	V	237.0	-105.4

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7.3. Test Band = GSM 1900(UP ANTENNA)**7.3.1. Test Channel = LCH**

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.428000	-71.62	-13.00	58.62	---	---	179	H	1.0	-105.0
104.253500	-77.72	-13.00	64.72	---	---	203	H	143.0	-120.8
275.361500	-75.43	-13.00	62.43	---	---	214	H	129.0	-110.2
3700.000000	-55.59	-13.00	42.59	---	---	237	H	180.0	-104.5
6027.150000	-53.97	-13.00	40.97	---	---	242	H	150.0	-100.0
9155.450000	-51.50	-13.00	38.50	---	---	167	H	54.0	-96.8

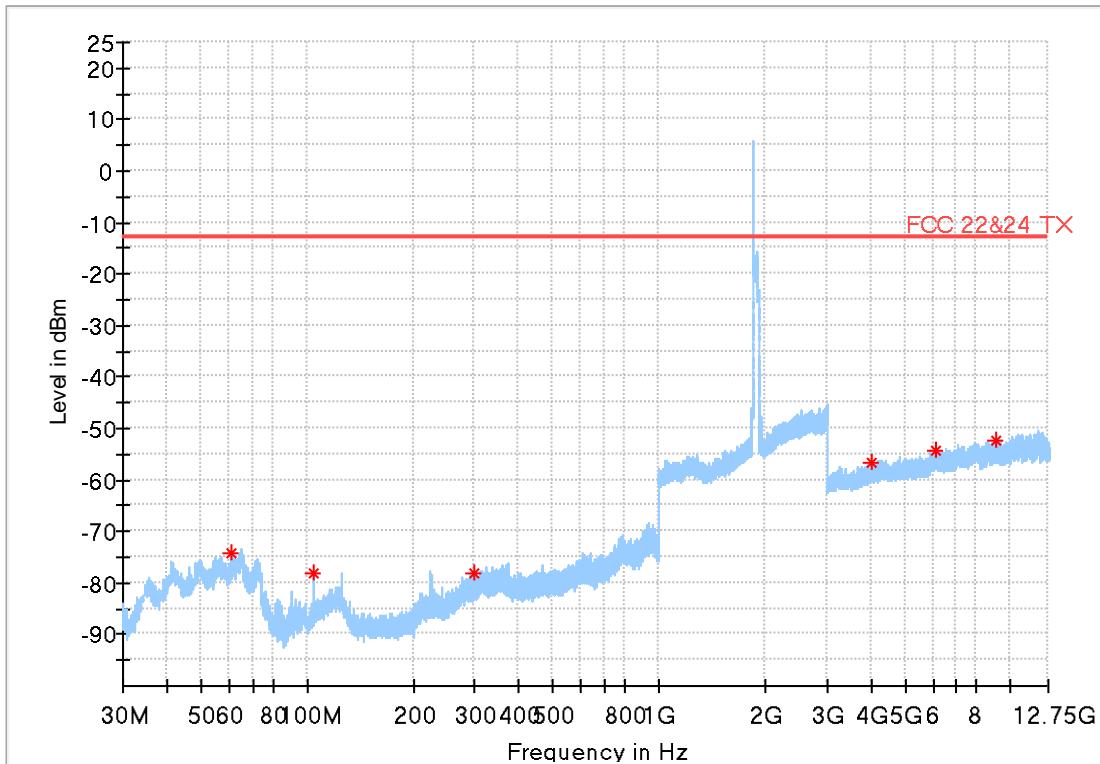
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Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.137000	-74.37	-13.00	61.37	---	---	291	V	170.0	-110.9
104.205000	-78.00	-13.00	65.00	---	---	228	V	178.0	-118.1
299.951000	-78.26	-13.00	65.26	---	---	295	V	163.0	-109.8
4022.700000	-56.61	-13.00	43.61	---	---	196	V	6.0	-103.2
6078.600000	-54.27	-13.00	41.27	---	---	282	V	27.0	-99.7
9106.450000	-52.36	-13.00	39.36	---	---	220	V	149.0	-96.8

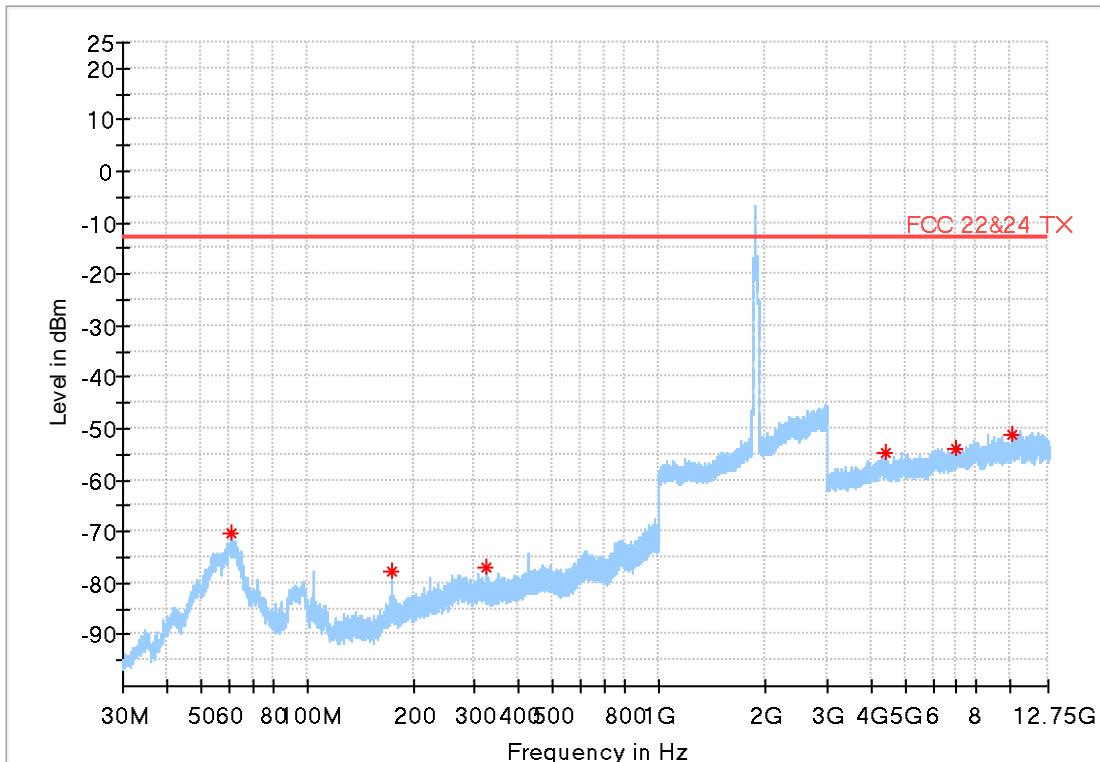


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7.3.2. Test Channel = MCH

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.040000	-70.27	-13.00	57.27	---	---	170	H	141.0	-104.9
174.578500	-77.87	-13.00	64.87	---	---	193	H	155.0	-116.7
324.589000	-76.83	-13.00	63.83	---	---	241	H	170.0	-110.8
4392.650000	-54.87	-13.00	41.87	---	---	194	H	180.0	-102.5
6953.950000	-54.09	-13.00	41.09	---	---	245	H	100.0	-99.3
10032.587500	-51.36	-13.00	38.36	---	---	152	H	73.0	-96.9

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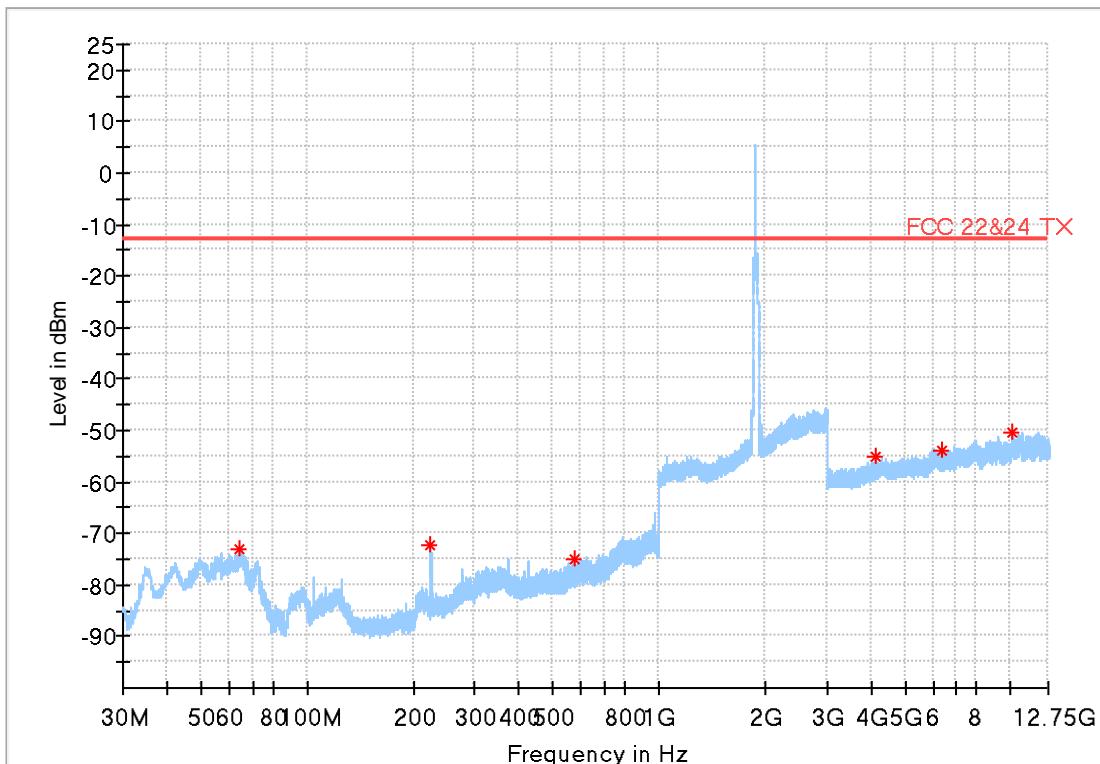
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Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.241000	-73.02	-13.00	60.02	---	---	162	V	162.0	-110.3
224.921500	-72.32	-13.00	59.32	---	---	259	V	217.0	-114.6
575.382500	-75.00	-13.00	62.00	---	---	297	V	169.0	-107.2
4142.400000	-54.95	-13.00	41.95	---	---	164	V	240.0	-103.0
6369.450000	-54.08	-13.00	41.08	---	---	224	V	75.0	-99.7
10076.312500	-50.57	-13.00	37.57	---	---	183	V	63.0	-96.8

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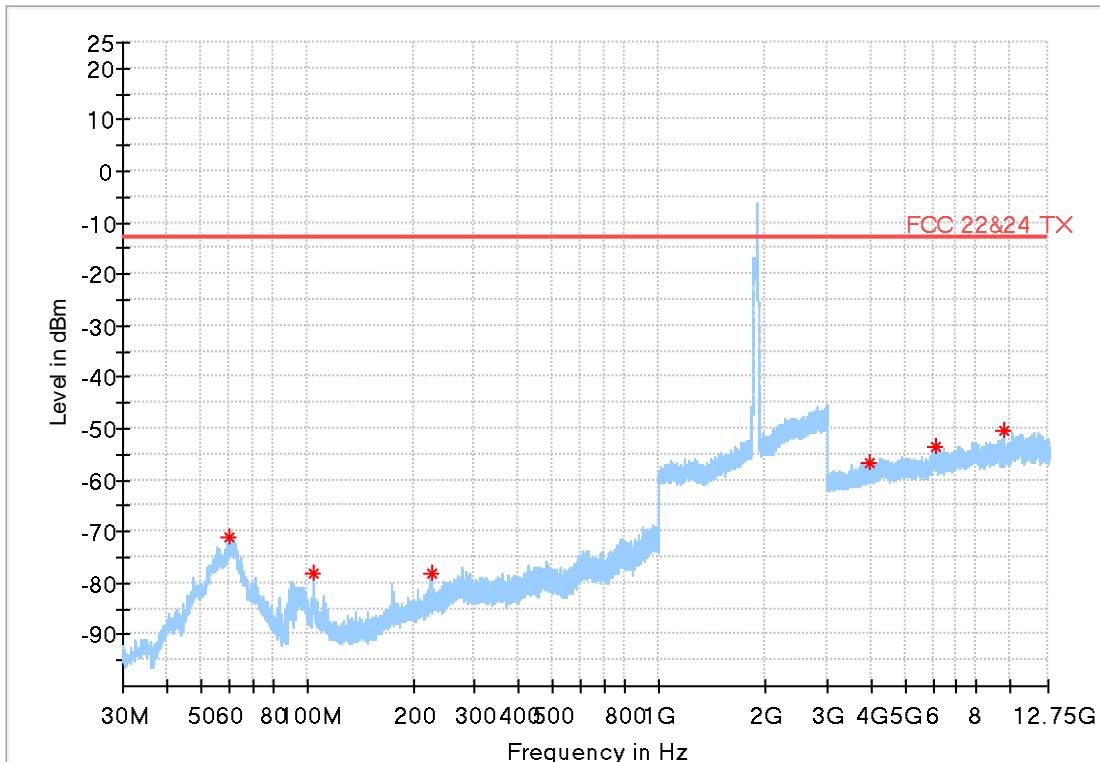


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7.3.3. Test Channel = HCH

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
60.506500	-71.23	-13.00	58.23	---	---	290	H	155.0	-104.8
104.302000	-78.09	-13.00	65.09	---	---	205	H	120.0	-120.8
225.115500	-78.14	-13.00	65.14	---	---	202	H	76.0	-113.3
3946.750000	-56.76	-13.00	43.76	---	---	213	H	127.0	-103.6
6104.150000	-53.58	-13.00	40.58	---	---	170	H	0.0	-99.9
9549.200000	-50.43	-13.00	37.43	---	---	271	H	19.0	-97.0

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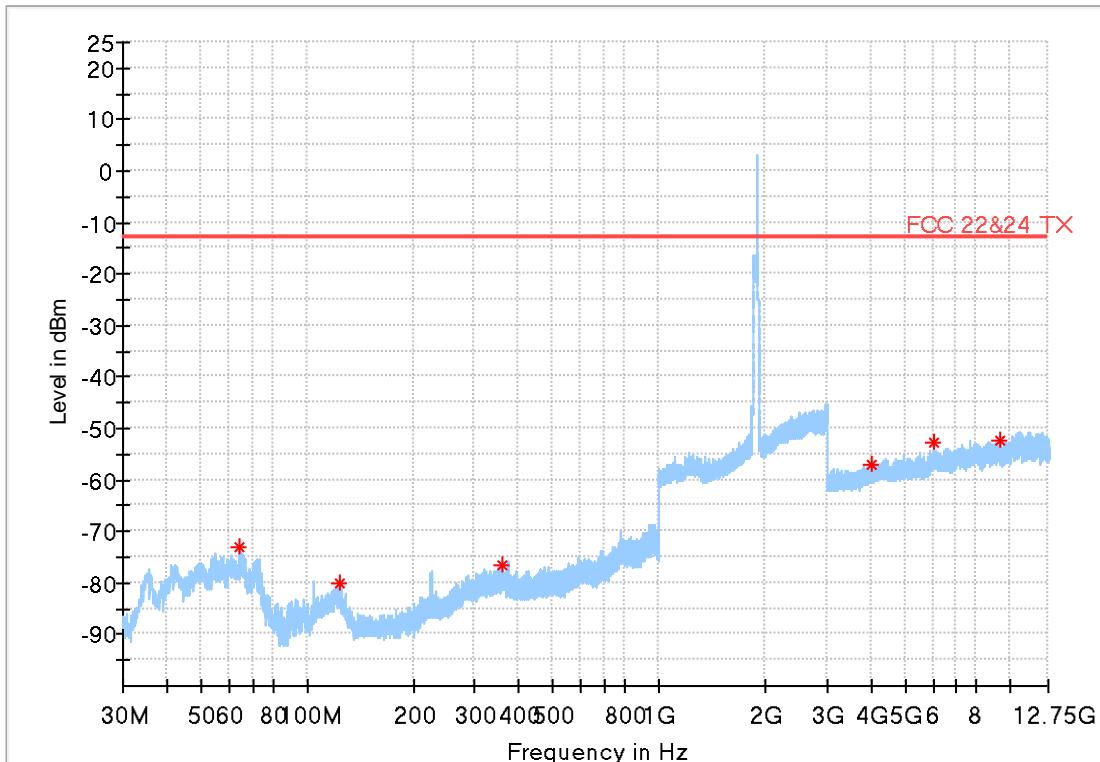
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Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
64.435000	-73.18	-13.00	60.18	---	---	257	V	156.0	-110.3
123.217000	-79.91	-13.00	66.91	---	---	270	V	27.0	-113.5
358.878500	-76.46	-13.00	63.46	---	---	223	V	149.0	-108.3
4038.100000	-56.93	-13.00	43.93	---	---	291	V	15.0	-103.2
6060.050000	-52.87	-13.00	39.87	---	---	296	V	122.0	-99.6
9280.750000	-52.44	-13.00	39.44	---	---	181	V	150.0	-96.7

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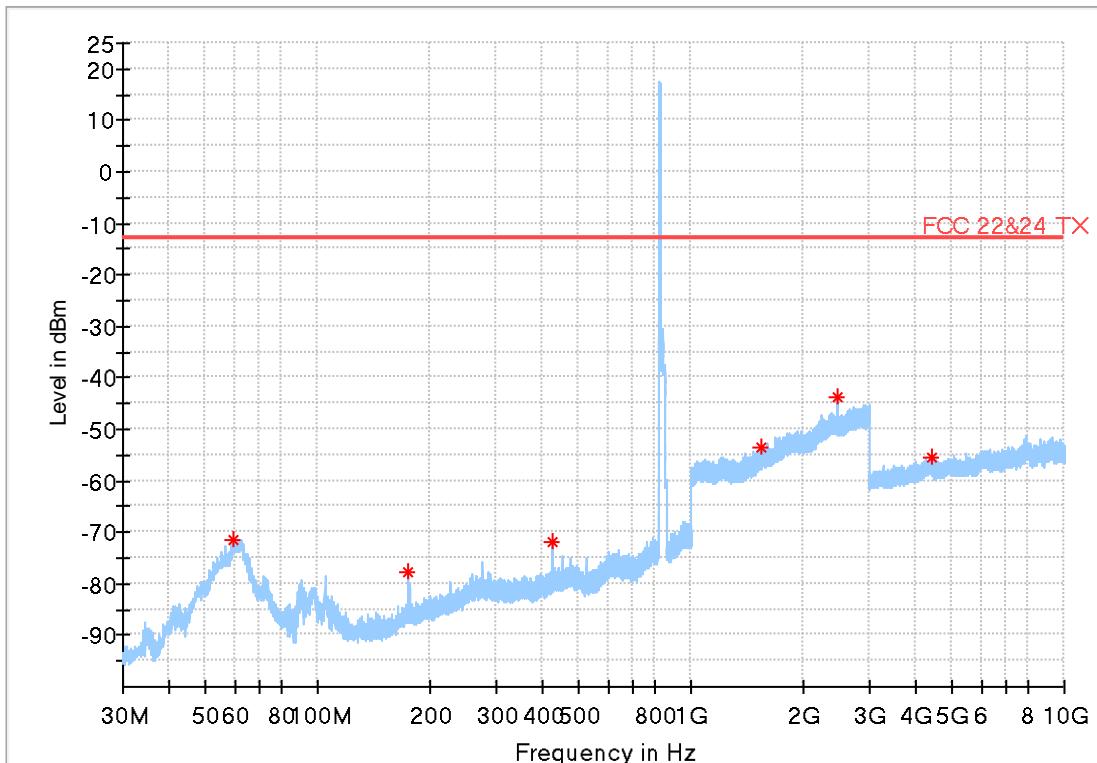


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7.4. Test Band = GSM 850(UP ANTENNA)**7.4.1. Test Channel = LCH**

Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
59.439500	-71.52	-13.00	58.52	---	---	212	H	240.0	-104.8
174.675500	-77.60	-13.00	64.60	---	---	236	H	106.0	-117.0
425.372000	-71.78	-13.00	58.78	---	---	173	H	268.0	-108.9
1541.775000	-53.71	-13.00	40.71	---	---	212	H	38.0	-95.4
2480.775000	-43.89	-13.00	30.89	---	---	172	H	228.0	-88.6
4433.250000	-55.30	-13.00	42.30	---	---	187	H	102.0	-102.6

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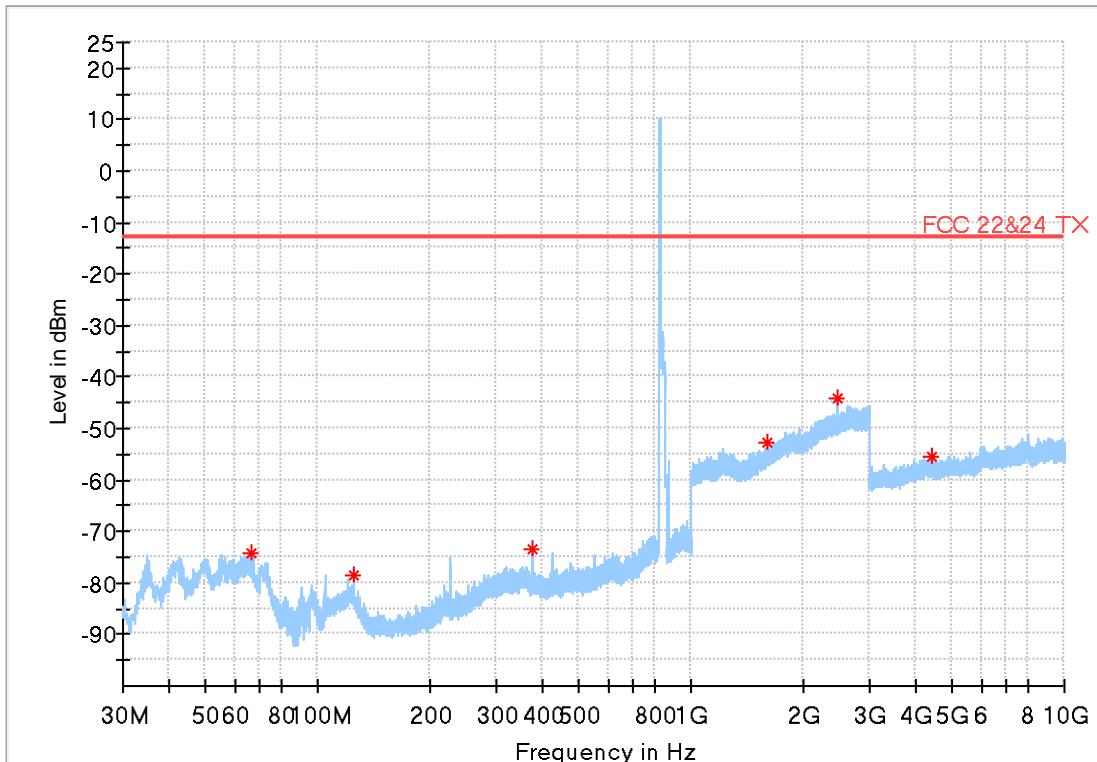
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Full Spectrum

**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
66.035500	-74.31	-13.00	61.31	---	---	152	V	182.0	-110.8
125.011500	-78.70	-13.00	65.70	---	---	186	V	96.0	-114.5
375.077500	-73.57	-13.00	60.57	---	---	175	V	189.0	-109.3
1597.200000	-52.91	-13.00	39.91	---	---	296	V	192.0	-95.3
2472.450000	-44.03	-13.00	31.03	---	---	252	V	351.0	-88.5
4391.950000	-55.55	-13.00	42.55	---	---	177	V	0.0	-102.7

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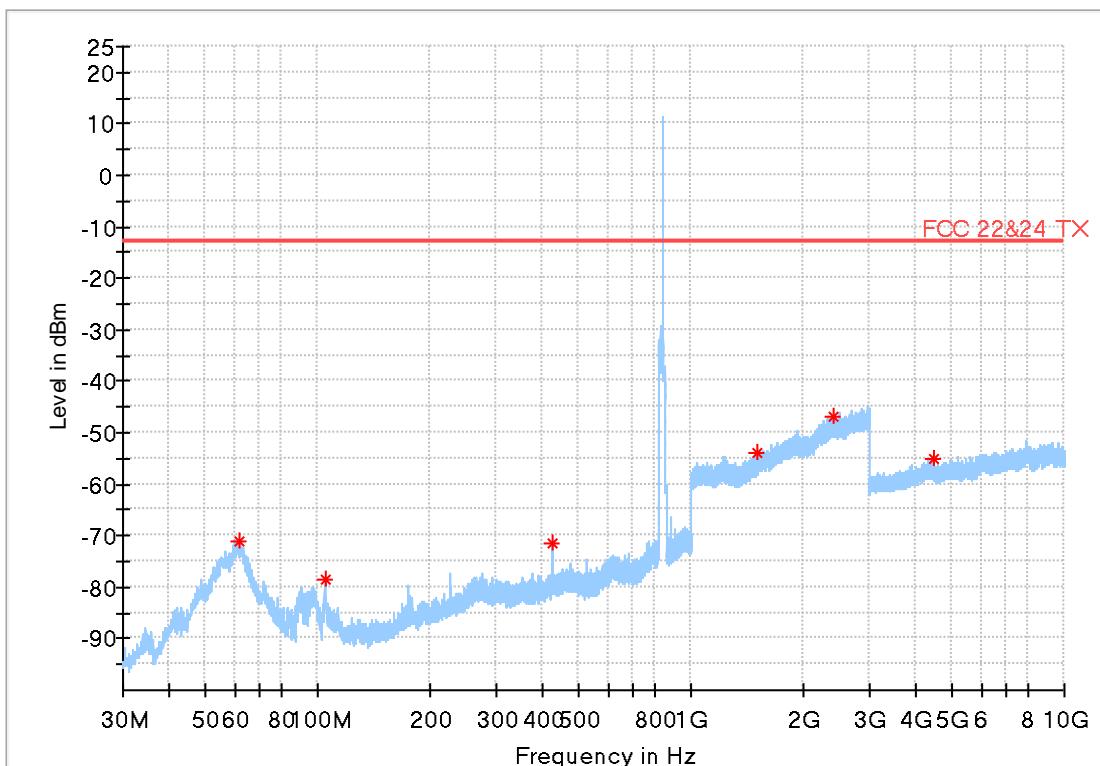


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7.4.2. Test Channel = MCH

Full Spectrum

**Critical_Freqs**

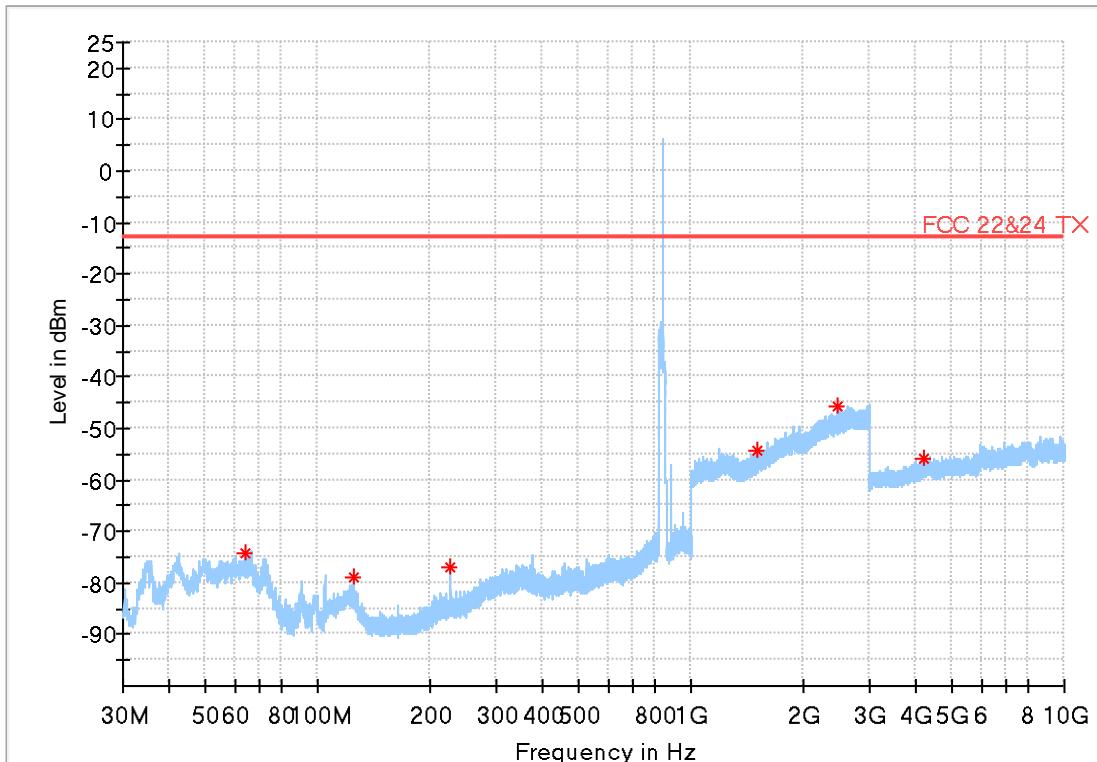
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.719000	-71.09	-13.00	58.09	---	---	292	H	189.0	-105.2
104.205000	-78.50	-13.00	65.50	---	---	200	H	336.0	-121.1
425.178000	-71.49	-13.00	58.49	---	---	275	H	297.0	-108.9
1506.300000	-53.86	-13.00	40.86	---	---	234	H	175.0	-95.9
2418.600000	-46.96	-13.00	33.96	---	---	186	H	86.0	-88.3
4456.350000	-55.17	-13.00	42.17	---	---	300	H	335.0	-102.6

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Full Spectrum

**Critical_Freqs**

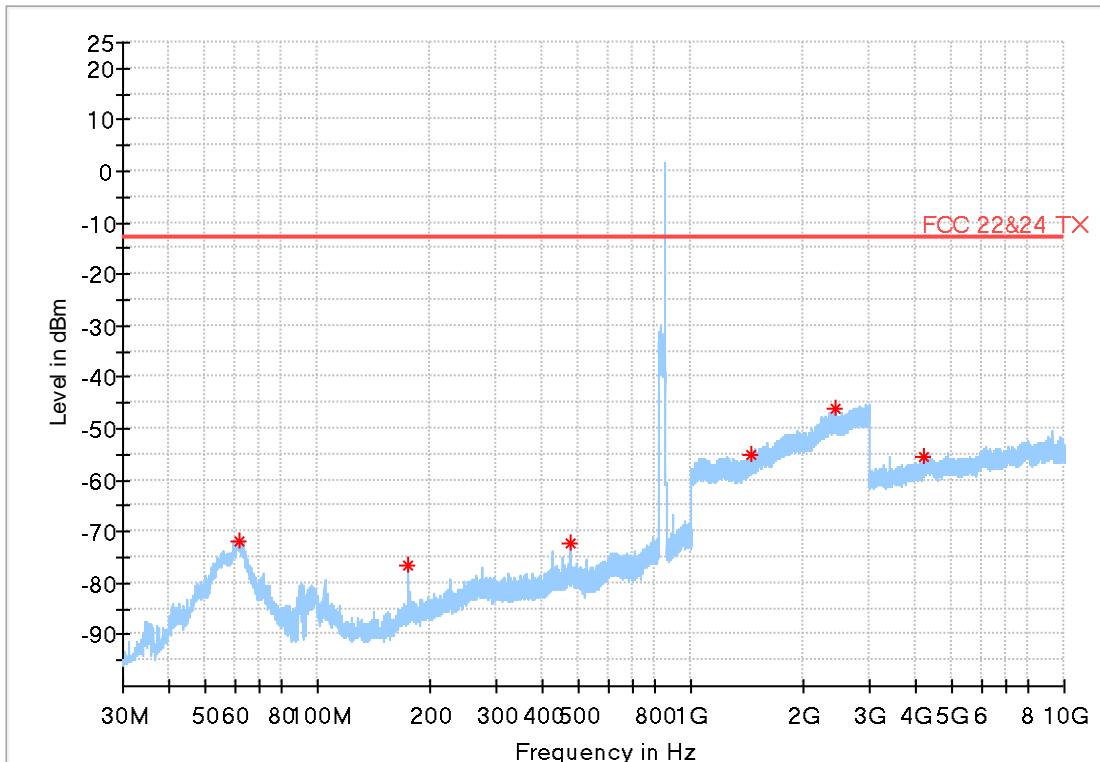
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
63.513500	-74.19	-13.00	61.19	---	---	260	V	176.0	-110.5
124.963000	-78.73	-13.00	65.73	---	---	174	V	216.0	-114.5
225.018500	-77.03	-13.00	64.03	---	---	219	V	330.0	-114.8
1504.275000	-54.47	-13.00	41.47	---	---	184	V	43.0	-96.4
2481.075000	-45.64	-13.00	32.64	---	---	162	V	242.0	-88.5
4226.050000	-55.68	-13.00	42.68	---	---	254	V	321.0	-102.9

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7.4.3. Test Channel = HCH

Full Spectrum



Critical_Freqs

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
61.767500	-71.83	-13.00	58.83	---	---	221	H	322.0	-105.2
174.578500	-76.39	-13.00	63.39	---	---	216	H	316.0	-117.0
475.569500	-72.18	-13.00	59.18	---	---	284	H	303.0	-107.9
1443.725000	-55.20	-13.00	42.20	---	---	254	H	135.0	-97.0
2425.350000	-46.22	-13.00	33.22	---	---	216	H	122.0	-88.4
4200.850000	-55.55	-13.00	42.55	---	---	296	H	216.0	-103.0

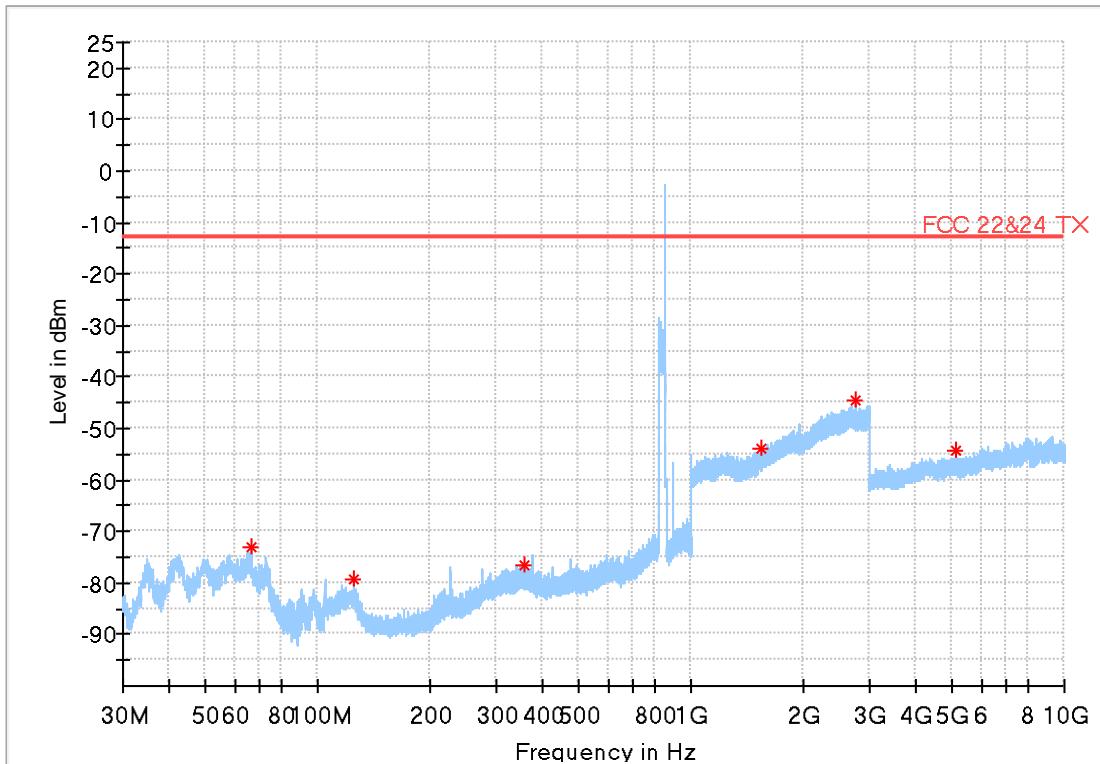
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Full Spectrum**Critical_Freqs**

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
66.181000	-73.23	-13.00	60.23	---	---	193	V	151.0	-110.9
124.963000	-79.29	-13.00	66.29	---	---	201	V	215.0	-114.5
359.218000	-76.49	-13.00	63.49	---	---	255	V	14.0	-108.5
1543.875000	-54.08	-13.00	41.08	---	---	192	V	182.0	-95.9
2743.050000	-44.61	-13.00	31.61	---	---	169	V	268.0	-87.2
5102.450000	-54.20	-13.00	41.20	---	---	155	V	244.0	-101.7

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.
- 3) The testing used EMC32 V9.21.00 software.

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8. Frequency Stability

8.1. Frequency Error Vs Voltage

Band	Channel	Voltage [Vdc]	Voltage				
			Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	VL	NT	2.78	0.003373	±2.5	PASS
GSM850	128	VN	NT	1.10	0.001335	±2.5	PASS
GSM850	128	VH	NT	5.62	0.006819	±2.5	PASS
GSM850	190	VL	NT	4.78	0.005714	±2.5	PASS
GSM850	190	VN	NT	-0.36	-0.000430	±2.5	PASS
GSM850	190	VH	NT	3.42	0.004088	±2.5	PASS
GSM850	251	VL	NT	4.00	0.004713	±2.5	PASS
GSM850	251	VN	NT	4.49	0.005290	±2.5	PASS
GSM850	251	VH	NT	3.91	0.004607	±2.5	PASS
EGPRS850	128	VL	NT	-8.04	-0.009755	±2.5	PASS
EGPRS850	128	VN	NT	-5.04	-0.006115	±2.5	PASS
EGPRS850	128	VH	NT	-4.94	-0.005994	±2.5	PASS
EGPRS850	190	VL	NT	-5.52	-0.006598	±2.5	PASS
EGPRS850	190	VN	NT	-2.32	-0.002773	±2.5	PASS
EGPRS850	190	VH	NT	-3.07	-0.003670	±2.5	PASS
EGPRS850	251	VL	NT	-3.97	-0.004677	±2.5	PASS
EGPRS850	251	VN	NT	-3.36	-0.003959	±2.5	PASS
EGPRS850	251	VH	NT	-2.81	-0.003311	±2.5	PASS
GSM1900	512	VL	NT	4.49	0.002427	±2.5	PASS
GSM1900	512	VN	NT	4.26	0.002302	±2.5	PASS
GSM1900	512	VH	NT	10.27	0.005551	±2.5	PASS
GSM1900	661	VL	NT	4.71	0.002505	±2.5	PASS
GSM1900	661	VN	NT	4.39	0.002335	±2.5	PASS
GSM1900	661	VH	NT	7.81	0.004154	±2.5	PASS
GSM1900	810	VL	NT	4.13	0.002163	±2.5	PASS
GSM1900	810	VN	NT	2.29	0.001199	±2.5	PASS
GSM1900	810	VH	NT	6.65	0.003482	±2.5	PASS
EGPRS1900	512	VL	NT	5.97	0.003227	±2.5	PASS
EGPRS1900	512	VN	NT	2.00	0.001081	±2.5	PASS
EGPRS1900	512	VH	NT	2.84	0.001535	±2.5	PASS
EGPRS1900	661	VL	NT	1.55	0.000824	±2.5	PASS

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EGPRS1900	661	VN	NT	4.39	0.002335	±2.5	PASS
EGPRS1900	661	VH	NT	3.68	0.001957	±2.5	PASS
EGPRS1900	810	VL	NT	-3.39	-0.001775	±2.5	PASS
EGPRS1900	810	VN	NT	0.74	0.000387	±2.5	PASS
EGPRS1900	810	VH	NT	-3.75	-0.001964	±2.5	PASS

8.2. Frequency Error Vs Temperature

Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GSM850	128	NV	-30	2.32	0.002815	±2.5	PASS
GSM850	128	NV	-20	2.26	0.002742	±2.5	PASS
GSM850	128	NV	-10	3.20	0.003883	±2.5	PASS
GSM850	128	NV	0	2.45	0.002973	±2.5	PASS
GSM850	128	NV	10	1.94	0.002354	±2.5	PASS
GSM850	128	NV	20	3.26	0.003955	±2.5	PASS
GSM850	128	NV	30	3.10	0.003761	±2.5	PASS
GSM850	128	NV	40	2.20	0.002669	±2.5	PASS
GSM850	128	NV	50	2.13	0.002584	±2.5	PASS
GSM850	190	NV	-30	-0.32	-0.000383	±2.5	PASS
GSM850	190	NV	-20	2.16	0.002582	±2.5	PASS
GSM850	190	NV	-10	2.55	0.003048	±2.5	PASS
GSM850	190	NV	0	4.07	0.004865	±2.5	PASS
GSM850	190	NV	10	4.68	0.005594	±2.5	PASS
GSM850	190	NV	20	4.16	0.004973	±2.5	PASS
GSM850	190	NV	30	1.94	0.002319	±2.5	PASS
GSM850	190	NV	40	3.03	0.003622	±2.5	PASS
GSM850	190	NV	50	2.45	0.002929	±2.5	PASS
GSM850	251	NV	-30	5.49	0.006468	±2.5	PASS
GSM850	251	NV	-20	1.81	0.002132	±2.5	PASS
GSM850	251	NV	-10	4.88	0.005749	±2.5	PASS
GSM850	251	NV	0	0.26	0.000306	±2.5	PASS
GSM850	251	NV	10	1.81	0.002132	±2.5	PASS
GSM850	251	NV	20	1.78	0.002097	±2.5	PASS
GSM850	251	NV	30	1.94	0.002286	±2.5	PASS
GSM850	251	NV	40	2.84	0.003346	±2.5	PASS
GSM850	251	NV	50	4.84	0.005702	±2.5	PASS

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EGPRS850	128	NV	-30	-5.26	-0.006382	±2.5	PASS
EGPRS850	128	NV	-20	-1.32	-0.001602	±2.5	PASS
EGPRS850	128	NV	-10	0.29	0.000352	±2.5	PASS
EGPRS850	128	NV	0	-7.81	-0.009476	±2.5	PASS
EGPRS850	128	NV	10	-3.58	-0.004344	±2.5	PASS
EGPRS850	128	NV	20	-3.68	-0.004465	±2.5	PASS
EGPRS850	128	NV	30	-6.62	-0.008032	±2.5	PASS
EGPRS850	128	NV	40	-4.00	-0.004853	±2.5	PASS
EGPRS850	128	NV	50	-1.68	-0.002038	±2.5	PASS
EGPRS850	190	NV	-30	-7.36	-0.008798	±2.5	PASS
EGPRS850	190	NV	-20	-4.39	-0.005247	±2.5	PASS
EGPRS850	190	NV	-10	-1.65	-0.001972	±2.5	PASS
EGPRS850	190	NV	0	-7.14	-0.008535	±2.5	PASS
EGPRS850	190	NV	10	-5.26	-0.006287	±2.5	PASS
EGPRS850	190	NV	20	-0.23	-0.000275	±2.5	PASS
EGPRS850	190	NV	30	-3.00	-0.003586	±2.5	PASS
EGPRS850	190	NV	40	-2.45	-0.002929	±2.5	PASS
EGPRS850	190	NV	50	-4.55	-0.005439	±2.5	PASS
EGPRS850	251	NV	-30	-1.00	-0.001178	±2.5	PASS
EGPRS850	251	NV	-20	-0.68	-0.000801	±2.5	PASS
EGPRS850	251	NV	-10	-7.52	-0.008860	±2.5	PASS
EGPRS850	251	NV	0	-2.07	-0.002439	±2.5	PASS
EGPRS850	251	NV	10	-3.49	-0.004112	±2.5	PASS
EGPRS850	251	NV	20	-4.29	-0.005054	±2.5	PASS
EGPRS850	251	NV	30	-6.30	-0.007422	±2.5	PASS
EGPRS850	251	NV	40	-0.61	-0.000719	±2.5	PASS
EGPRS850	251	NV	50	-0.32	-0.000377	±2.5	PASS
GSM1900	512	NV	-30	4.88	0.002638	±2.5	PASS
GSM1900	512	NV	-20	6.88	0.003719	±2.5	PASS
GSM1900	512	NV	-10	9.49	0.005129	±2.5	PASS
GSM1900	512	NV	0	3.16	0.001708	±2.5	PASS
GSM1900	512	NV	10	9.88	0.005340	±2.5	PASS
GSM1900	512	NV	20	7.20	0.003891	±2.5	PASS
GSM1900	512	NV	30	5.62	0.003038	±2.5	PASS
GSM1900	512	NV	40	7.91	0.004275	±2.5	PASS
GSM1900	512	NV	50	-0.32	-0.000173	±2.5	PASS
GSM1900	661	NV	-30	0.39	0.000207	±2.5	PASS

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GSM1900	661	NV	-20	6.33	0.003367	±2.5	PASS
GSM1900	661	NV	-10	7.88	0.004191	±2.5	PASS
GSM1900	661	NV	0	8.91	0.004739	±2.5	PASS
GSM1900	661	NV	10	2.81	0.001495	±2.5	PASS
GSM1900	661	NV	20	3.55	0.001888	±2.5	PASS
GSM1900	661	NV	30	4.13	0.002197	±2.5	PASS
GSM1900	661	NV	40	3.87	0.002059	±2.5	PASS
GSM1900	661	NV	50	2.62	0.001394	±2.5	PASS
GSM1900	810	NV	-30	6.33	0.003314	±2.5	PASS
GSM1900	810	NV	-20	6.39	0.003346	±2.5	PASS
GSM1900	810	NV	-10	2.07	0.001084	±2.5	PASS
GSM1900	810	NV	0	3.81	0.001995	±2.5	PASS
GSM1900	810	NV	10	6.62	0.003466	±2.5	PASS
GSM1900	810	NV	20	6.97	0.003650	±2.5	PASS
GSM1900	810	NV	30	8.88	0.004650	±2.5	PASS
GSM1900	810	NV	40	4.46	0.002335	±2.5	PASS
GSM1900	810	NV	50	9.62	0.005037	±2.5	PASS
EGPRS1900	512	NV	-30	-1.13	-0.000611	±2.5	PASS
EGPRS1900	512	NV	-20	1.03	0.000557	±2.5	PASS
EGPRS1900	512	NV	-10	-0.58	-0.000313	±2.5	PASS
EGPRS1900	512	NV	0	8.72	0.004713	±2.5	PASS
EGPRS1900	512	NV	10	4.29	0.002319	±2.5	PASS
EGPRS1900	512	NV	20	2.23	0.001205	±2.5	PASS
EGPRS1900	512	NV	30	3.03	0.001638	±2.5	PASS
EGPRS1900	512	NV	40	5.46	0.002951	±2.5	PASS
EGPRS1900	512	NV	50	1.45	0.000784	±2.5	PASS
EGPRS1900	661	NV	-30	1.90	0.001011	±2.5	PASS
EGPRS1900	661	NV	-20	2.49	0.001324	±2.5	PASS
EGPRS1900	661	NV	-10	6.62	0.003521	±2.5	PASS
EGPRS1900	661	NV	0	2.52	0.001340	±2.5	PASS
EGPRS1900	661	NV	10	1.74	0.000926	±2.5	PASS
EGPRS1900	661	NV	20	1.32	0.000702	±2.5	PASS
EGPRS1900	661	NV	30	-3.58	-0.001904	±2.5	PASS
EGPRS1900	661	NV	40	3.16	0.001681	±2.5	PASS
EGPRS1900	661	NV	50	3.33	0.001771	±2.5	PASS
EGPRS1900	810	NV	-30	-0.58	-0.000304	±2.5	PASS
EGPRS1900	810	NV	-20	-2.71	-0.001419	±2.5	PASS

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EGPRS1900	810	NV	-10	-0.65	-0.000340	± 2.5	PASS
EGPRS1900	810	NV	0	-0.48	-0.000251	± 2.5	PASS
EGPRS1900	810	NV	10	7.46	0.003906	± 2.5	PASS
EGPRS1900	810	NV	20	0.48	0.000251	± 2.5	PASS
EGPRS1900	810	NV	30	2.32	0.001215	± 2.5	PASS
EGPRS1900	810	NV	40	0.19	0.000099	± 2.5	PASS
EGPRS1900	810	NV	50	-1.74	-0.000911	± 2.5	PASS

The End

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SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Inspection & Testing Services Laboratory

| No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 | (86-755) 26012053 f (86-755) 26710594 | www.sgsgroup.com.cn
中国·深圳·科技园中区M-10栋一号厂房 邮编: 518057 | (86-755) 26012053 f (86-755) 26710594 | sgs.china@sgs.com