



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	---	32.98	27.23	38.45	PASS
GSM850	190	---	33.03	27.28	38.45	PASS
GSM850	251	---	32.99	27.24	38.45	PASS
EGPRS850	128	1	26.69	20.94	38.45	PASS
EGPRS850	128	2	25.65	19.9	38.45	PASS
EGPRS850	128	3	23.11	17.36	38.45	PASS
EGPRS850	128	4	22.89	17.14	38.45	PASS
EGPRS850	190	1	26.74	20.99	38.45	PASS
EGPRS850	190	2	25.78	20.03	38.45	PASS
EGPRS850	190	3	23.21	17.46	38.45	PASS
EGPRS850	190	4	22.91	17.16	38.45	PASS
EGPRS850	251	1	26.67	20.92	38.45	PASS
EGPRS850	251	2	25.71	19.96	38.45	PASS
EGPRS850	251	3	23.15	17.4	38.45	PASS
EGPRS850	251	4	22.87	17.12	38.45	PASS

Band	Channel	Slot	Conducted Power (dBm)	EIRP (dBm)	Limit(dBm)	Verdict
GSM1900	512	---	30.12	28.02	33.00	PASS
GSM1900	661	---	30.11	28.01	33.00	PASS
GSM1900	810	---	30.08	27.98	33.00	PASS
EGPRS1900	512	1	25.77	23.67	33.00	PASS
EGPRS1900	512	2	24.59	22.49	33.00	PASS
EGPRS1900	512	3	22.89	20.79	33.00	PASS
EGPRS1900	512	4	20.66	18.56	33.00	PASS
EGPRS1900	661	1	25.74	23.64	33.00	PASS
EGPRS1900	661	2	24.56	22.46	33.00	PASS
EGPRS1900	661	3	22.92	20.82	33.00	PASS
EGPRS1900	661	4	21.23	19.13	33.00	PASS
EGPRS1900	810	1	25.72	23.62	33.00	PASS
EGPRS1900	810	2	24.60	22.5	33.00	PASS
EGPRS1900	810	3	22.97	20.87	33.00	PASS
EGPRS1900	810	4	20.69	18.59	33.00	PASS



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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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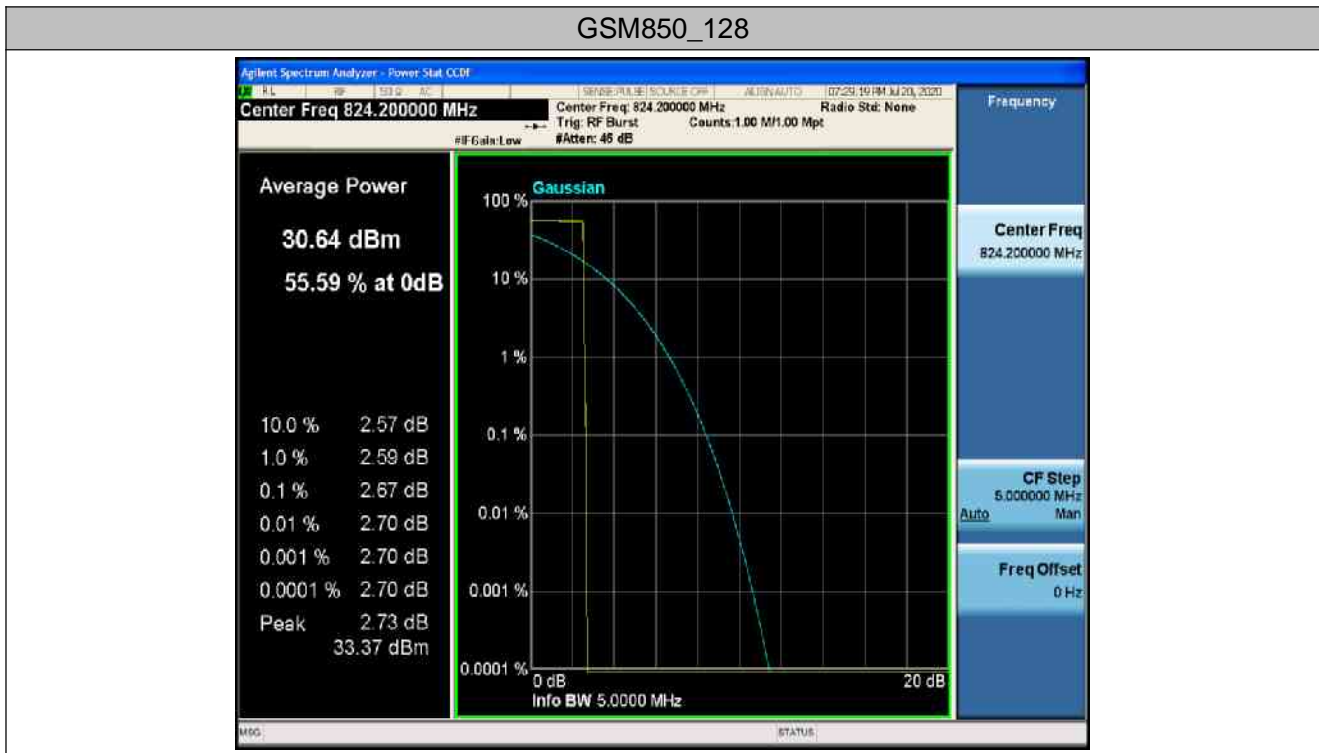


2. Peak-to-Average Ratio

2.1. Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
GSM850	128	2.67	13	PASS
GSM850	190	2.62	13	PASS
GSM850	251	2.65	13	PASS
EGPRS850	128	3.43	13	PASS
EGPRS850	190	5.66	13	PASS
EGPRS850	251	5.77	13	PASS
GSM1900	512	2.74	13	PASS
GSM1900	661	2.75	13	PASS
GSM1900	810	2.82	13	PASS
EGPRS1900	512	5.55	13	PASS
EGPRS1900	661	5.78	13	PASS
EGPRS1900	810	5.85	13	PASS

2.2. Part II - Test Plots



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GSM850_190



GSM850_251



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EGPRS850_128



EGPRS850_190

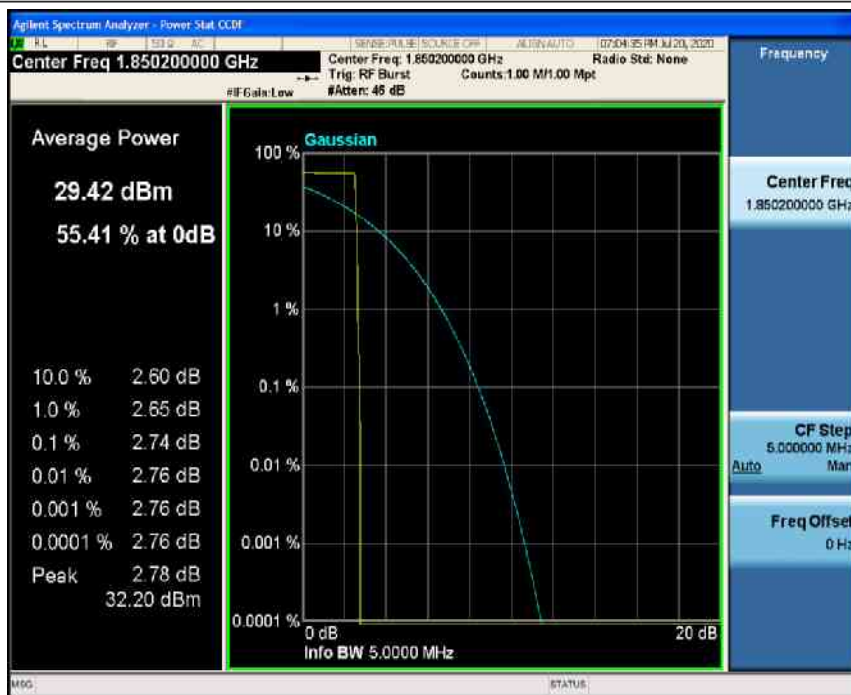


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EGPRS850_251



GSM1900_512



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GSM1900_661



GSM1900_810



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EGPRS1900_512



EGPRS1900_661



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EGPRS1900_810



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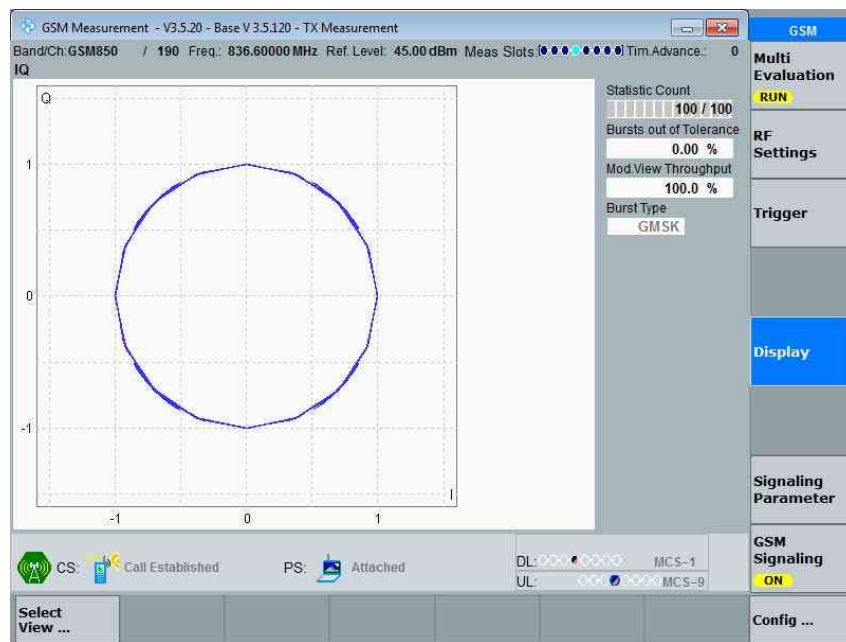
3. Modulation Characteristics

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



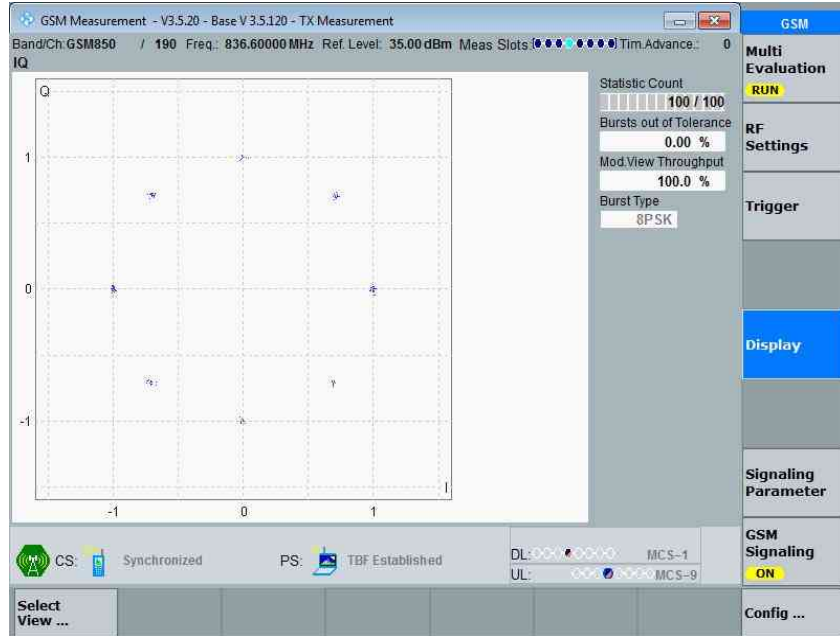
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3.1.1.2. Test Mode = GSM/TM2

3.1.1.2.1. Test Channel = MCH



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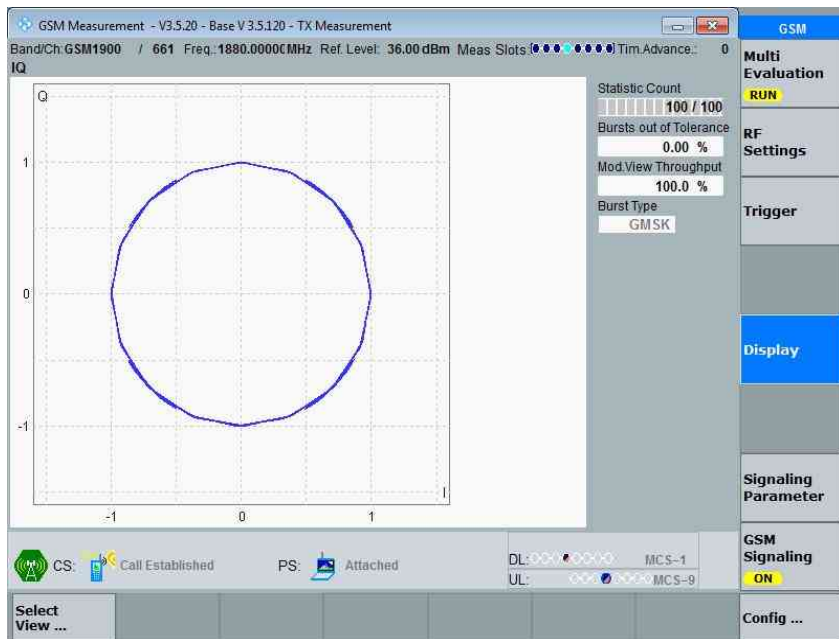
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3.1.2. Test Band = GSM 1900

3.1.2.1. Test Mode = GSM/TM1

3.1.2.1.1. Test Channel = MCH

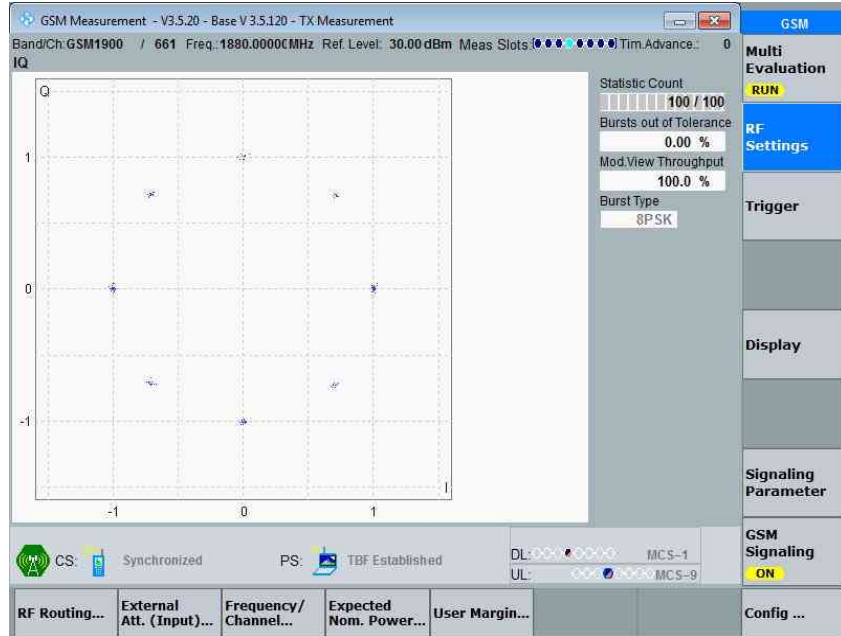


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3.1.2.2. Test Mode = GSM/TM2

3.1.2.2.1. Test Channel = MCH



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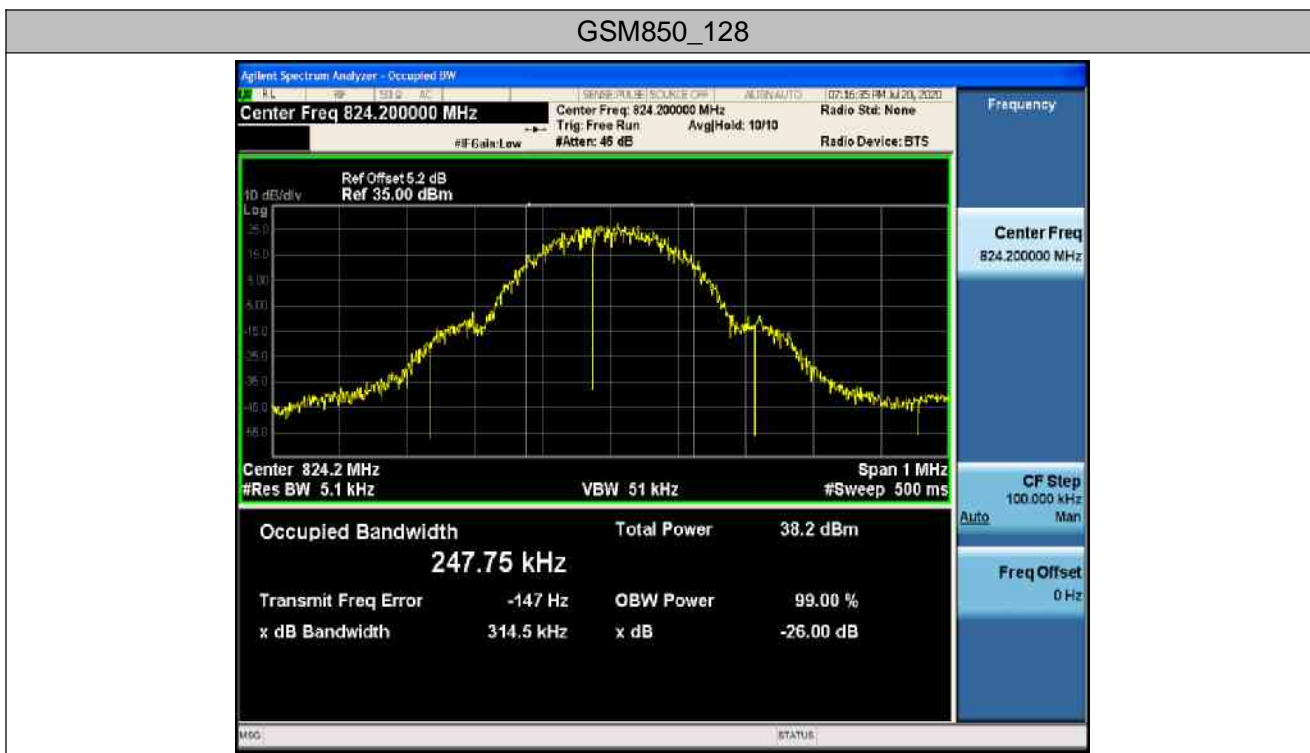


4. 26dB Bandwidth and Occupied Bandwidth

4.1. Test Result

Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
GSM850	128	247.75	314.5	---	PASS
GSM850	190	245.00	316.6	---	PASS
GSM850	251	244.54	312.4	---	PASS
EGPRS850	128	238.30	284.4	---	PASS
EGPRS850	190	245.80	312.6	---	PASS
EGPRS850	251	247.40	303.6	---	PASS
GSM1900	512	243.85	310.8	---	PASS
GSM1900	661	244.53	315.7	---	PASS
GSM1900	810	243.04	302.3	---	PASS
EGPRS1900	512	245.54	310.0	---	PASS
EGPRS1900	661	247.11	311.9	---	PASS
EGPRS1900	810	245.53	302.1	---	PASS

4.2. Test Plots



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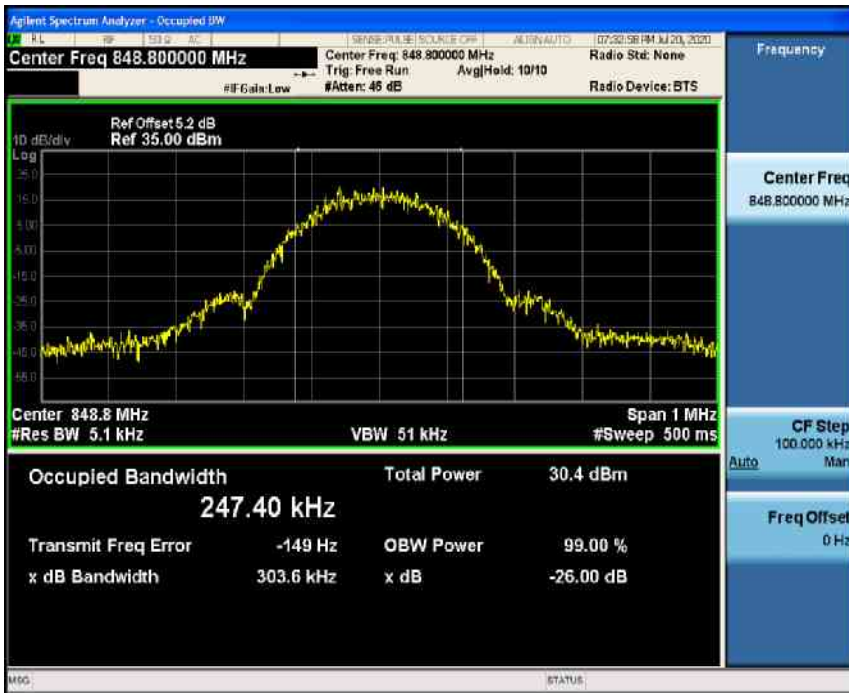
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5. Band Edge Compliance

5.1. Test Result

Band	Channel	Value(dBm)	Limit(dBm)	Verdict
GSM850	128	-16.08	-13	PASS
GSM850	251	-16.63	-13	PASS
EGPRS850	128	-28.16	-13	PASS
EGPRS850	251	-28.07	-13	PASS
GSM1900	512	-18.56	-13	PASS
GSM1900	810	-17.60	-13	PASS
EGPRS1900	512	-22.81	-13	PASS
EGPRS1900	810	-22.24	-13	PASS

5.2. Test Plots



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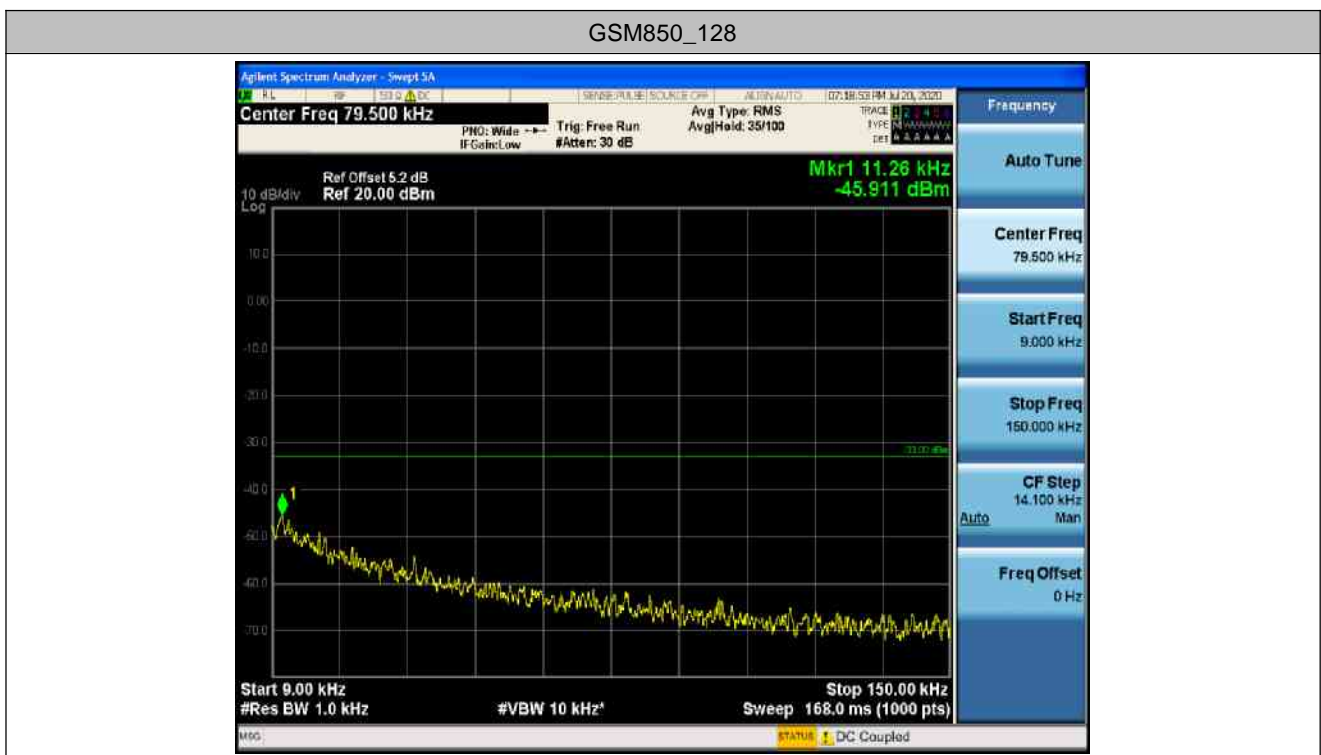
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6. Spurious Emission at Antenna Terminal

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

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

6.1. Test Plots



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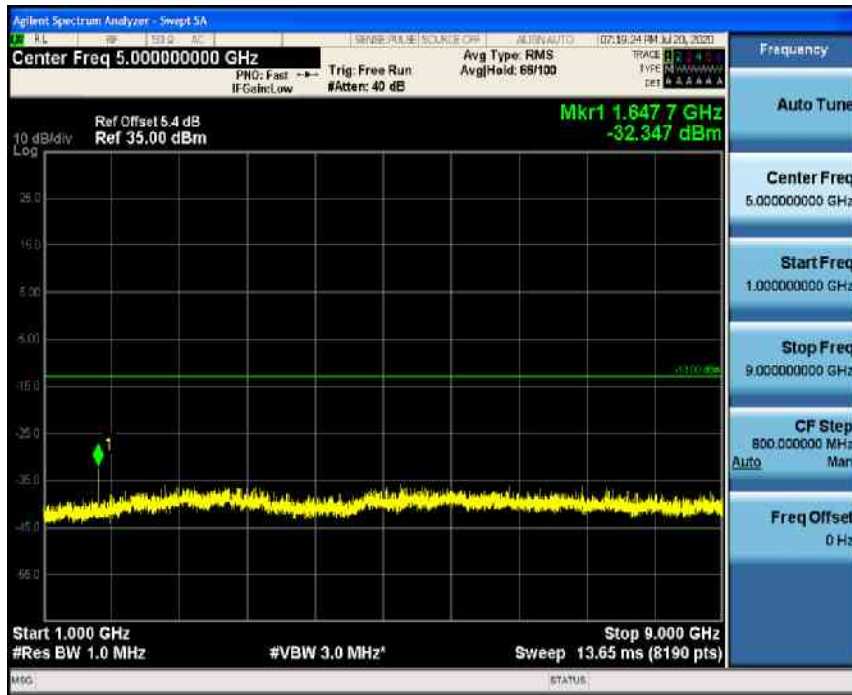


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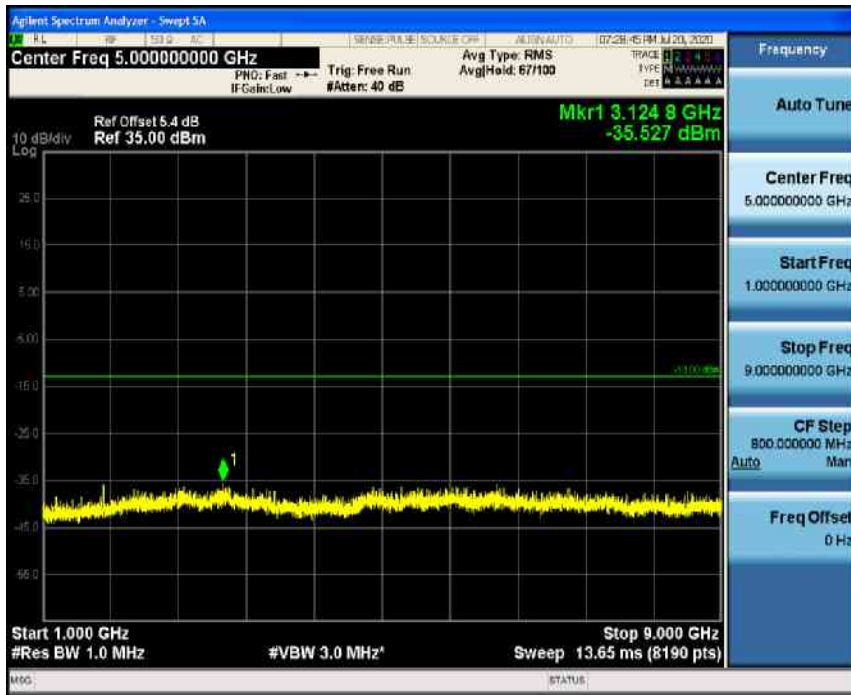
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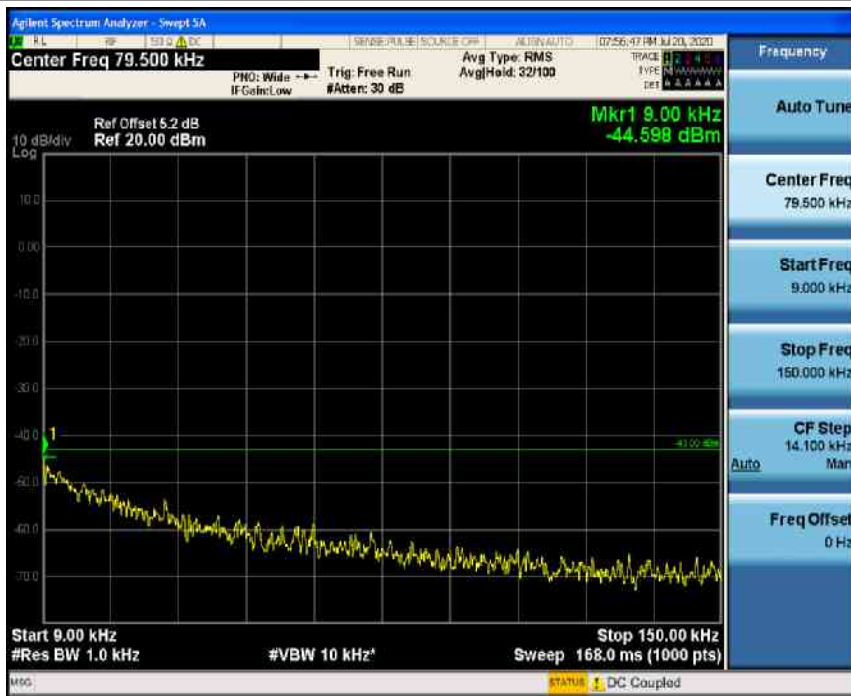
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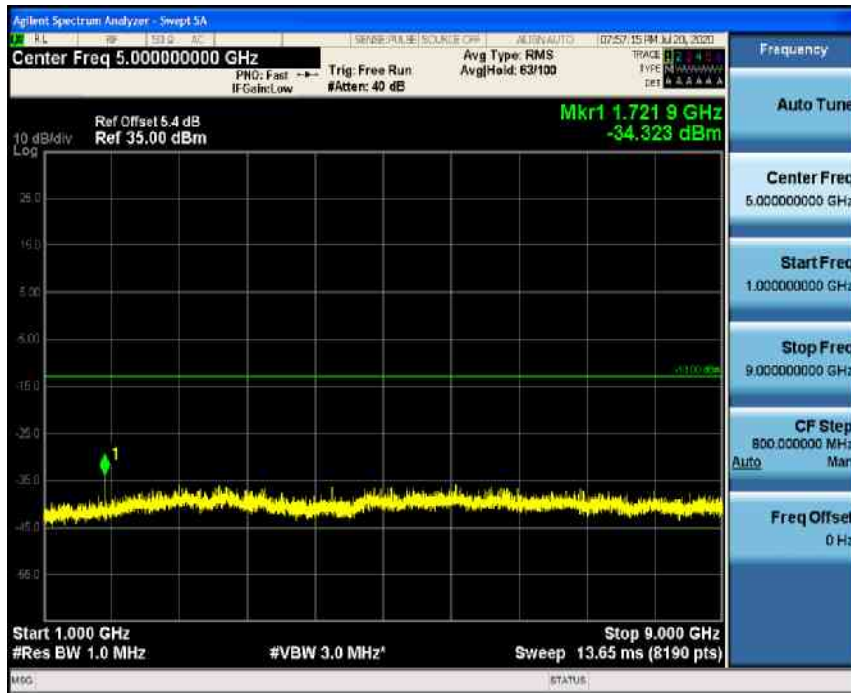
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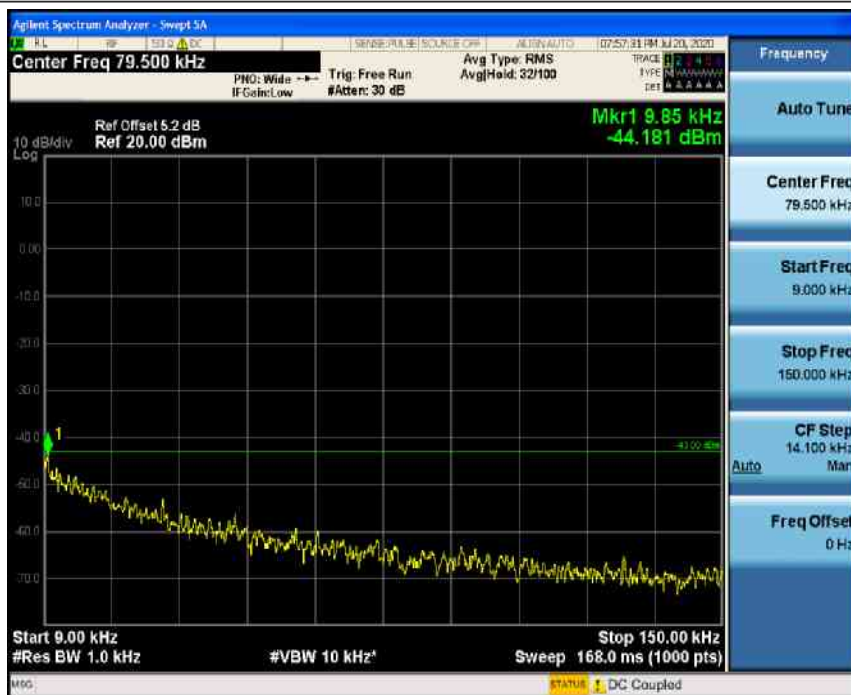
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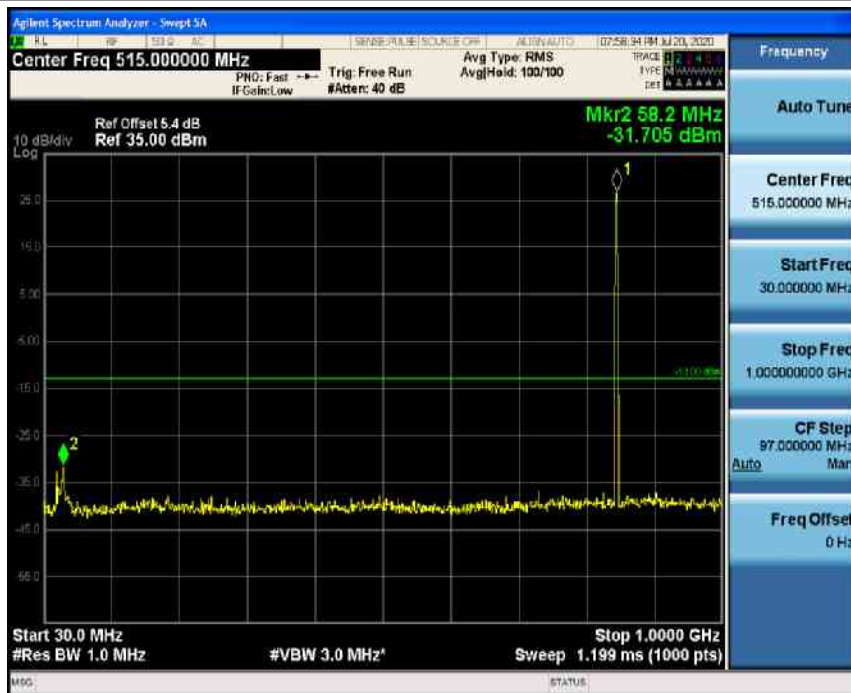


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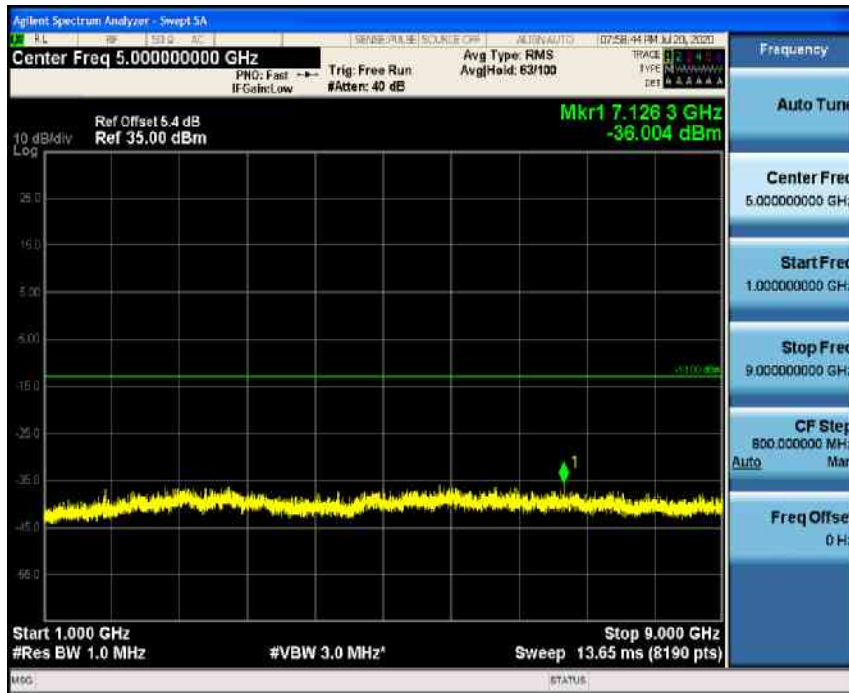


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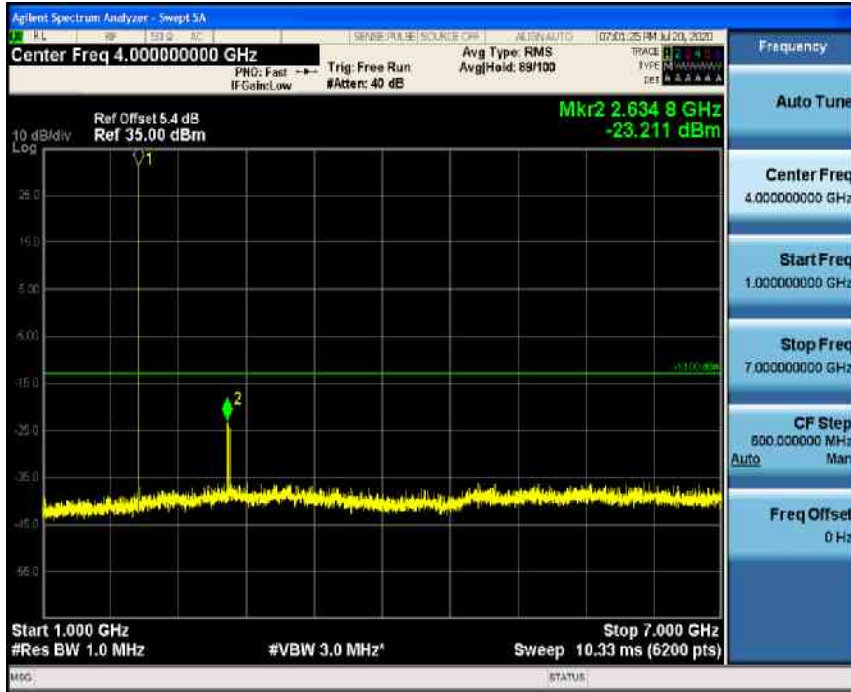


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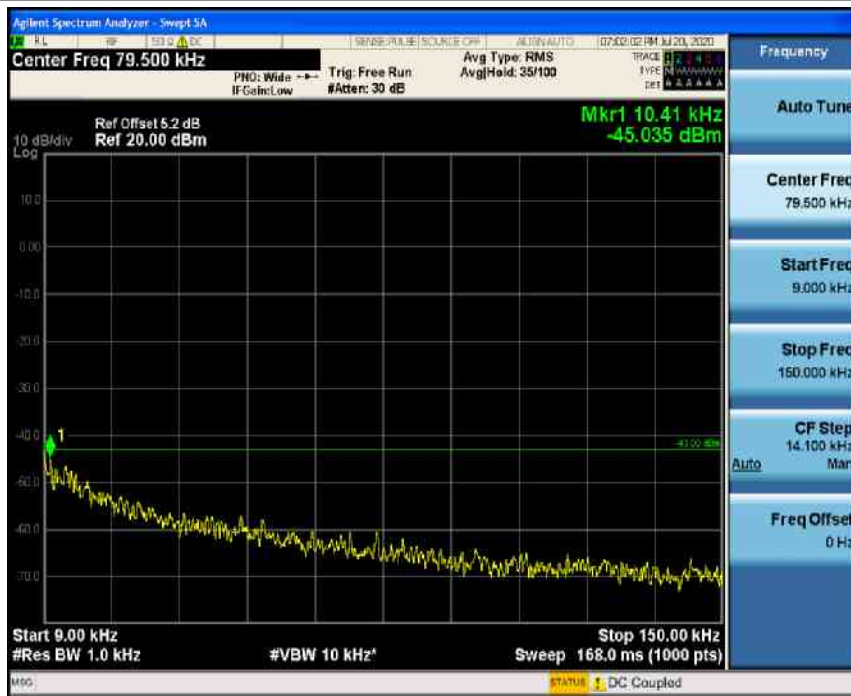
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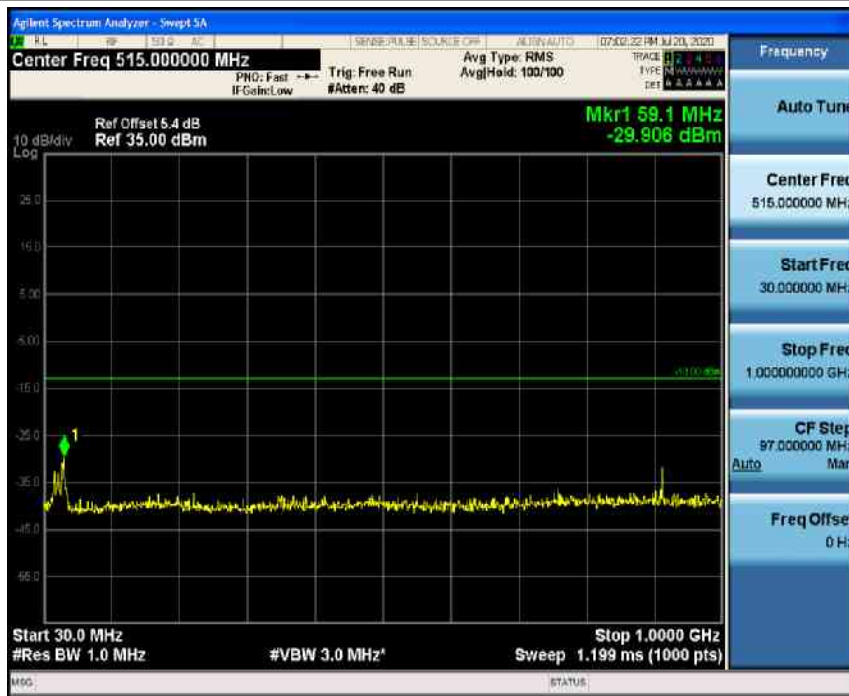


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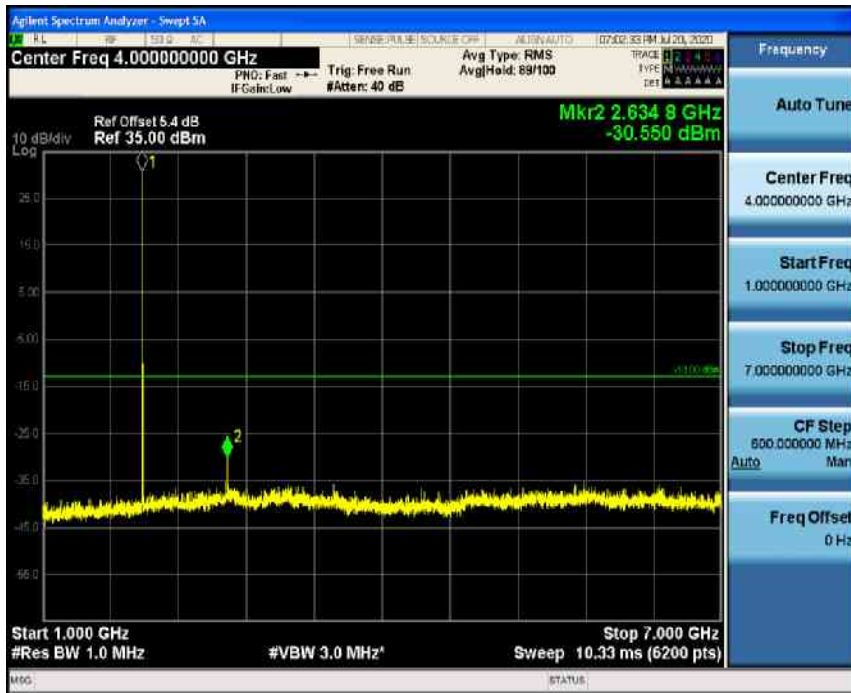
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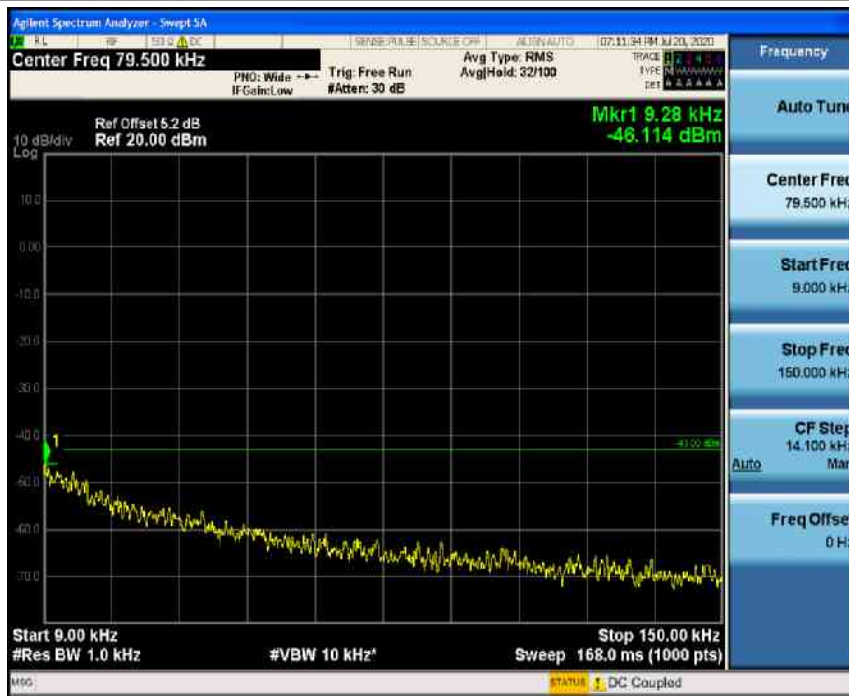
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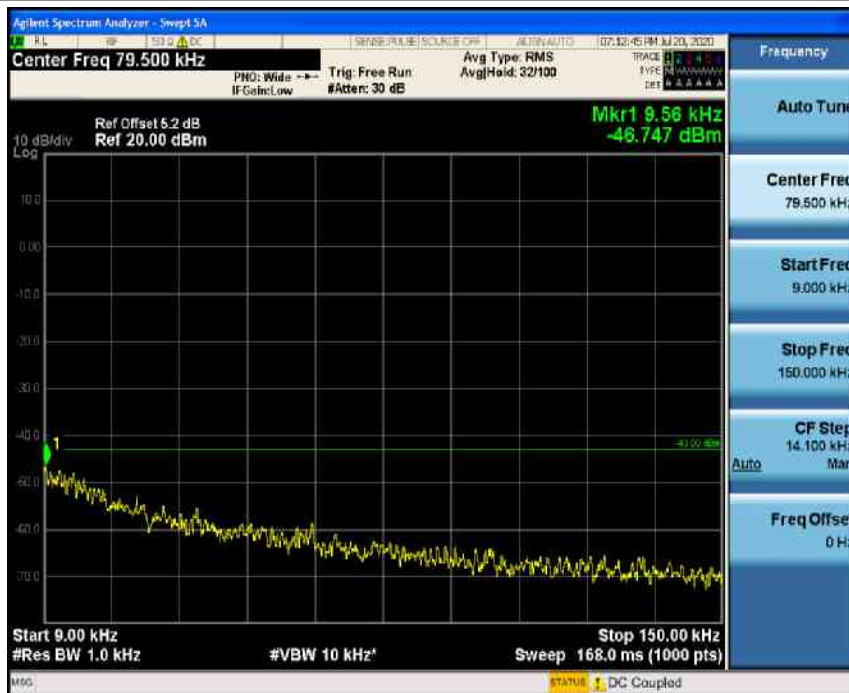
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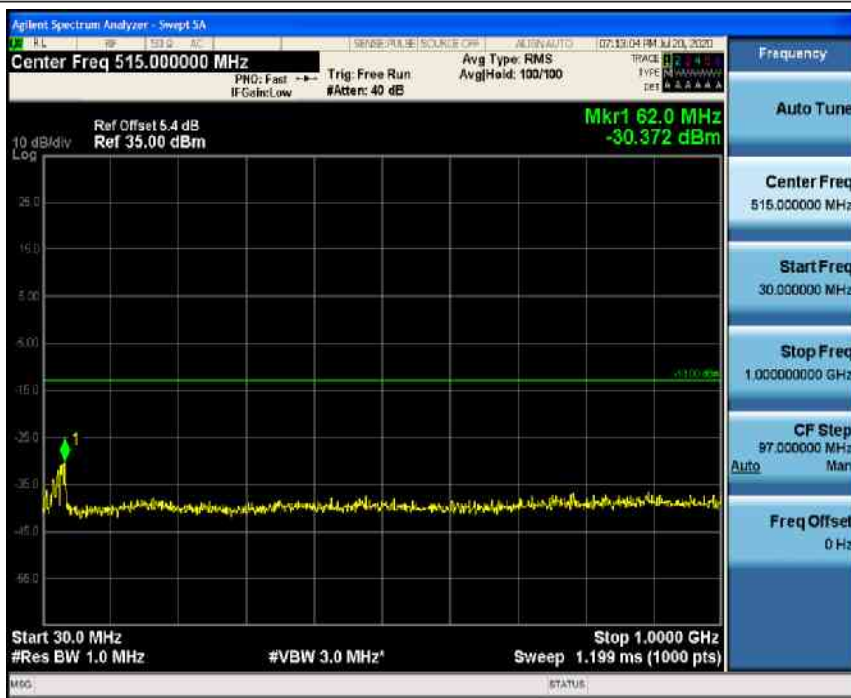


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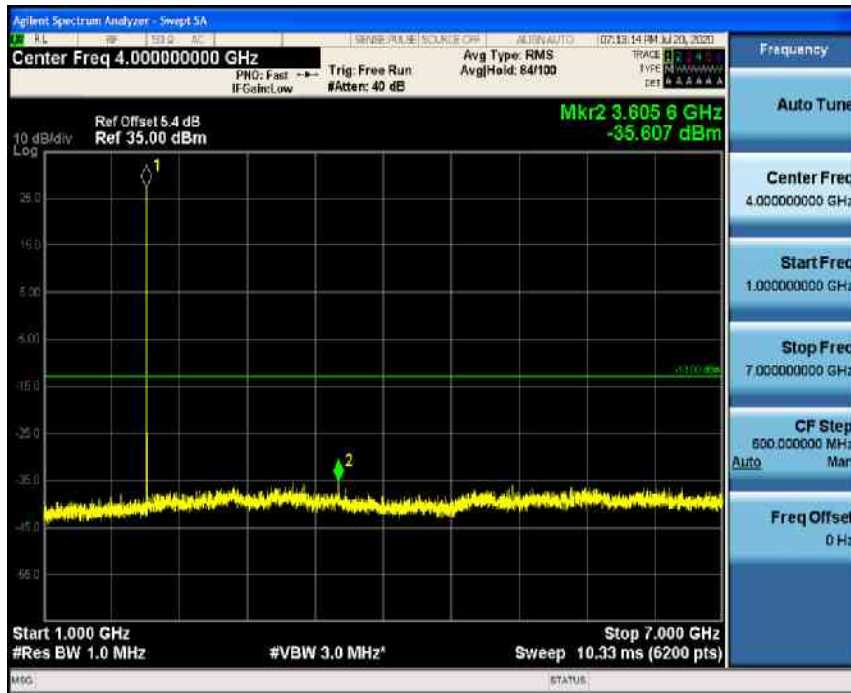


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EGPRS1900_810



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7. Field Strength of Spurious Radiation

7.1. Test Band = GSM 1900

7.1.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.6920	-72.09	-13.00	59.09	Vertical
110.4655	-64.55	-13.00	51.55	Vertical
340.5610	-67.37	-13.00	54.37	Vertical
3700.0233	-50.55	-13.00	37.55	Vertical
5550.5850	-59.33	-13.00	46.33	Vertical
17993.4998	-39.98	-13.00	26.98	Vertical
38.1969	-64.41	-13.00	51.41	Horizontal
230.0240	-67.75	-13.00	54.75	Horizontal
520.3595	-65.87	-13.00	52.87	Horizontal
3700.5234	-54.85	-13.00	41.85	Horizontal
5550.5850	-58.25	-13.00	45.25	Horizontal
16400.9467	-43.24	-13.00	30.24	Horizontal

7.1.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.5950	-71.84	-13.00	58.84	Vertical
107.9434	-64.20	-13.00	51.20	Vertical
463.4662	-66.62	-13.00	53.62	Vertical
3760.0253	-52.20	-13.00	39.20	Vertical
5640.0880	-57.10	-13.00	44.10	Vertical
17997.4999	-40.07	-13.00	27.07	Vertical
44.0657	-64.16	-13.00	51.16	Horizontal
241.3251	-68.53	-13.00	55.53	Horizontal
544.7562	-64.59	-13.00	51.59	Horizontal
3760.0253	-51.03	-13.00	38.03	Horizontal
5640.0880	-58.81	-13.00	45.81	Horizontal
16391.9464	-43.66	-13.00	30.66	Horizontal

7.1.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.6920	-71.27	-13.00	58.27	Vertical
119.2930	-64.85	-13.00	51.85	Vertical
337.3114	-67.48	-13.00	54.48	Vertical
3819.5273	-55.04	-13.00	42.04	Vertical



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5729.5910	-58.81	-13.00	45.81	Vertical
17995.9999	-40.02	-13.00	27.02	Vertical
45.7633	-64.09	-13.00	51.09	Horizontal
237.6389	-67.76	-13.00	54.76	Horizontal
565.9033	-64.26	-13.00	51.26	Horizontal
3819.5273	-56.25	-13.00	43.25	Horizontal
5729.5910	-58.55	-13.00	45.55	Horizontal
16394.4465	-43.60	-13.00	30.60	Horizontal

7.2. Test Band = GSM 850

7.2.1. Test Channel = LCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
48.5764	-70.45	-13.00	57.45	Vertical
111.4841	-64.04	-13.00	51.04	Vertical
387.8994	-66.96	-13.00	53.96	Vertical
1648.1296	-46.54	-13.00	33.54	Vertical
2473.0946	-51.44	-13.00	38.44	Vertical
17997.9999	-39.71	-13.00	26.71	Vertical
43.4352	-63.38	-13.00	50.38	Horizontal
242.6346	-66.78	-13.00	53.78	Horizontal
1648.1296	-41.32	-13.00	28.32	Horizontal
2473.0946	-52.43	-13.00	39.43	Horizontal
3296.5099	-55.37	-13.00	42.37	Horizontal
4121.0374	-56.90	-13.00	43.90	Horizontal

7.2.2. Test Channel = MCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
49.4495	-71.84	-13.00	58.84	Vertical
117.1589	-63.89	-13.00	50.89	Vertical
326.3013	-68.09	-13.00	55.09	Vertical
1672.9346	-50.76	-13.00	37.76	Vertical
2509.9020	-56.16	-13.00	43.16	Vertical
17992.4998	-39.72	-13.00	26.72	Vertical
45.2783	-63.86	-13.00	50.86	Horizontal
236.1353	-66.63	-13.00	53.63	Horizontal
1672.9346	-45.23	-13.00	32.23	Horizontal
2509.9020	-49.84	-13.00	36.84	Horizontal
3346.5116	-57.51	-13.00	44.51	Horizontal
4183.0394	-60.61	-13.00	47.61	Horizontal



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7.2.3. Test Channel = HCH

Frequency (MHz)	Level (dBm)	Limit Line (dBm)	Margin (dB)	Polarization
54.2512	-71.57	-13.00	58.57	Vertical
113.6182	-64.69	-13.00	51.69	Vertical
433.4917	-66.63	-13.00	53.63	Vertical
1697.3395	-49.45	-13.00	36.45	Vertical
2546.3093	-53.92	-13.00	40.92	Vertical
17994.4998	-39.47	-13.00	26.47	Vertical
42.9501	-63.76	-13.00	50.76	Horizontal
114.6852	-75.39	-13.00	62.39	Horizontal
235.2623	-67.40	-13.00	54.40	Horizontal
1697.7395	-41.84	-13.00	28.84	Horizontal
2546.7093	-48.99	-13.00	35.99	Horizontal
3395.0132	-53.90	-13.00	40.90	Horizontal

Remark:

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



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3)

8. Frequency Stability

8.1. Frequency Error Vs Voltage

Band	Channel	Voltage		Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
		Voltage (Vdc)	Temperature (°C)				
GSM850	128	VL	TN	14.11	0.017118	2.5	PASS
GSM850	128	VN	TN	9.04	0.010968	2.5	PASS
GSM850	128	VH	TN	7.26	0.008814	2.5	PASS
GSM850	190	VL	TN	11.95	0.014279	2.5	PASS
GSM850	190	VN	TN	14.85	0.017752	2.5	PASS
GSM850	190	VH	TN	13.11	0.015668	2.5	PASS
GSM850	251	VL	TN	12.79	0.015063	2.5	PASS
GSM850	251	VN	TN	12.72	0.014987	2.5	PASS
GSM850	251	VH	TN	15.34	0.018068	2.5	PASS
EGPRS850	128	VL	TN	21.92	0.026598	2.5	PASS
EGPRS850	128	VN	TN	19.37	0.023503	2.5	PASS
EGPRS850	128	VH	TN	23.60	0.028635	2.5	PASS
EGPRS850	190	VL	TN	20.44	0.024429	2.5	PASS
EGPRS850	190	VN	TN	21.73	0.025972	2.5	PASS
EGPRS850	190	VH	TN	22.73	0.027169	2.5	PASS
EGPRS850	251	VL	TN	20.21	0.023811	2.5	PASS
EGPRS850	251	VN	TN	18.69	0.022023	2.5	PASS
EGPRS850	251	VH	TN	18.50	0.021795	2.5	PASS
GSM1900	512	VL	TN	6.39	0.003455	2.5	PASS
GSM1900	512	VN	TN	8.39	0.004537	2.5	PASS
GSM1900	512	VH	TN	10.30	0.005567	2.5	PASS
GSM1900	661	VL	TN	14.01	0.007453	2.5	PASS
GSM1900	661	VN	TN	12.53	0.006663	2.5	PASS
GSM1900	661	VH	TN	17.89	0.009514	2.5	PASS
GSM1900	810	VL	TN	13.33	0.006982	2.5	PASS
GSM1900	810	VN	TN	11.11	0.005815	2.5	PASS
GSM1900	810	VH	TN	14.21	0.007438	2.5	PASS
EGPRS1900	512	VL	TN	9.75	0.005270	2.5	PASS
EGPRS1900	512	VN	TN	16.89	0.009126	2.5	PASS
EGPRS1900	512	VH	TN	18.24	0.009859	2.5	PASS
EGPRS1900	661	VL	TN	19.86	0.010562	2.5	PASS
EGPRS1900	661	VN	TN	20.73	0.011025	2.5	PASS
EGPRS1900	661	VH	TN	18.47	0.009823	2.5	PASS
EGPRS1900	810	VL	TN	15.79	0.008267	2.5	PASS
EGPRS1900	810	VN	TN	23.54	0.012324	2.5	PASS
EGPRS1900	810	VH	TN	19.47	0.010194	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	11.82	0.014337	2.5	PASS
GSM850	128	VN	-20	12.69	0.015395	2.5	PASS
GSM850	128	VN	-10	10.62	0.012888	2.5	PASS
GSM850	128	VN	0	10.07	0.012222	2.5	PASS
GSM850	128	VN	10	12.75	0.015473	2.5	PASS
GSM850	128	VN	20	8.68	0.010537	2.5	PASS
GSM850	128	VN	30	13.27	0.016100	2.5	PASS
GSM850	128	VN	40	11.91	0.014455	2.5	PASS
GSM850	128	VN	50	9.62	0.011673	2.5	PASS
GSM850	190	VN	-30	14.24	0.017019	2.5	PASS
GSM850	190	VN	-20	13.95	0.016672	2.5	PASS
GSM850	190	VN	-10	17.98	0.021496	2.5	PASS
GSM850	190	VN	0	18.69	0.022345	2.5	PASS
GSM850	190	VN	10	12.30	0.014703	2.5	PASS
GSM850	190	VN	20	16.01	0.019142	2.5	PASS
GSM850	190	VN	30	12.88	0.015398	2.5	PASS
GSM850	190	VN	40	14.14	0.016903	2.5	PASS
GSM850	190	VN	50	16.69	0.019952	2.5	PASS
GSM850	251	VN	-30	14.27	0.016812	2.5	PASS
GSM850	251	VN	-20	13.88	0.016356	2.5	PASS
GSM850	251	VN	-10	12.95	0.015253	2.5	PASS
GSM850	251	VN	0	14.82	0.017459	2.5	PASS
GSM850	251	VN	10	13.79	0.016242	2.5	PASS
GSM850	251	VN	20	14.40	0.016965	2.5	PASS
GSM850	251	VN	30	16.11	0.018980	2.5	PASS
GSM850	251	VN	40	14.75	0.017383	2.5	PASS
GSM850	251	VN	50	12.49	0.014720	2.5	PASS
EGPRS850	128	VN	-30	23.63	0.028674	2.5	PASS
EGPRS850	128	VN	-20	21.53	0.026128	2.5	PASS
EGPRS850	128	VN	-10	21.76	0.026402	2.5	PASS
EGPRS850	128	VN	0	23.37	0.028361	2.5	PASS
EGPRS850	128	VN	10	23.25	0.028204	2.5	PASS
EGPRS850	128	VN	20	23.02	0.027930	2.5	PASS
EGPRS850	128	VN	30	22.21	0.026951	2.5	PASS
EGPRS850	128	VN	40	19.86	0.024091	2.5	PASS
EGPRS850	128	VN	50	21.05	0.025540	2.5	PASS
EGPRS850	190	VN	-30	21.15	0.025278	2.5	PASS
EGPRS850	190	VN	-20	19.86	0.023734	2.5	PASS
EGPRS850	190	VN	-10	19.31	0.023078	2.5	PASS
EGPRS850	190	VN	0	20.24	0.024197	2.5	PASS
EGPRS850	190	VN	10	20.82	0.024892	2.5	PASS
EGPRS850	190	VN	20	18.79	0.022460	2.5	PASS



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EGPRS850	190	VN	30	19.44	0.023232	2.5	PASS
EGPRS850	190	VN	40	19.60	0.023425	2.5	PASS
EGPRS850	190	VN	50	18.82	0.022499	2.5	PASS
EGPRS850	251	VN	-30	16.27	0.019171	2.5	PASS
EGPRS850	251	VN	-20	20.82	0.024534	2.5	PASS
EGPRS850	251	VN	-10	18.89	0.022252	2.5	PASS
EGPRS850	251	VN	0	20.79	0.024496	2.5	PASS
EGPRS850	251	VN	10	19.95	0.023507	2.5	PASS
EGPRS850	251	VN	20	17.37	0.020464	2.5	PASS
EGPRS850	251	VN	30	19.47	0.022936	2.5	PASS
EGPRS850	251	VN	40	18.18	0.021415	2.5	PASS
EGPRS850	251	VN	50	19.21	0.022632	2.5	PASS
GSM1900	512	VN	-30	8.49	0.004589	2.5	PASS
GSM1900	512	VN	-20	11.56	0.006247	2.5	PASS
GSM1900	512	VN	-10	8.88	0.004799	2.5	PASS
GSM1900	512	VN	0	9.14	0.004938	2.5	PASS
GSM1900	512	VN	10	14.27	0.007713	2.5	PASS
GSM1900	512	VN	20	11.27	0.006090	2.5	PASS
GSM1900	512	VN	30	12.88	0.006963	2.5	PASS
GSM1900	512	VN	40	7.62	0.004118	2.5	PASS
GSM1900	512	VN	50	8.23	0.004450	2.5	PASS
GSM1900	661	VN	-30	12.69	0.006749	2.5	PASS
GSM1900	661	VN	-20	19.27	0.010252	2.5	PASS
GSM1900	661	VN	-10	11.40	0.006062	2.5	PASS
GSM1900	661	VN	0	10.33	0.005495	2.5	PASS
GSM1900	661	VN	10	18.40	0.009789	2.5	PASS
GSM1900	661	VN	20	13.95	0.007419	2.5	PASS
GSM1900	661	VN	30	17.37	0.009239	2.5	PASS
GSM1900	661	VN	40	12.01	0.006388	2.5	PASS
GSM1900	661	VN	50	14.01	0.007453	2.5	PASS
GSM1900	810	VN	-30	9.81	0.005139	2.5	PASS
GSM1900	810	VN	-20	8.04	0.004209	2.5	PASS
GSM1900	810	VN	-10	12.91	0.006762	2.5	PASS
GSM1900	810	VN	0	7.36	0.003854	2.5	PASS
GSM1900	810	VN	10	10.69	0.005596	2.5	PASS
GSM1900	810	VN	20	15.40	0.008064	2.5	PASS
GSM1900	810	VN	30	14.27	0.007472	2.5	PASS
GSM1900	810	VN	40	9.62	0.005038	2.5	PASS
GSM1900	810	VN	50	10.62	0.005562	2.5	PASS
EGPRS1900	512	VN	-30	18.21	0.009842	2.5	PASS
EGPRS1900	512	VN	-20	17.95	0.009702	2.5	PASS
EGPRS1900	512	VN	-10	15.24	0.008236	2.5	PASS
EGPRS1900	512	VN	0	14.75	0.007975	2.5	PASS
EGPRS1900	512	VN	10	17.95	0.009702	2.5	PASS
EGPRS1900	512	VN	20	15.98	0.008638	2.5	PASS
EGPRS1900	512	VN	30	19.24	0.010400	2.5	PASS
EGPRS1900	512	VN	40	22.41	0.012110	2.5	PASS



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EGPRS1900	512	VN	50	17.82	0.009632	2.5	PASS
EGPRS1900	661	VN	-30	23.44	0.012468	2.5	PASS
EGPRS1900	661	VN	-20	23.31	0.012399	2.5	PASS
EGPRS1900	661	VN	-10	20.02	0.010647	2.5	PASS
EGPRS1900	661	VN	0	22.57	0.012004	2.5	PASS
EGPRS1900	661	VN	10	20.02	0.010647	2.5	PASS
EGPRS1900	661	VN	20	22.57	0.012004	2.5	PASS
EGPRS1900	661	VN	30	19.73	0.010493	2.5	PASS
EGPRS1900	661	VN	40	15.92	0.008466	2.5	PASS
EGPRS1900	661	VN	50	20.57	0.010939	2.5	PASS
EGPRS1900	810	VN	-30	17.01	0.008909	2.5	PASS
EGPRS1900	810	VN	-20	19.31	0.010109	2.5	PASS
EGPRS1900	810	VN	-10	16.34	0.008554	2.5	PASS
EGPRS1900	810	VN	0	17.89	0.009366	2.5	PASS
EGPRS1900	810	VN	10	22.99	0.012037	2.5	PASS
EGPRS1900	810	VN	20	18.76	0.009822	2.5	PASS
EGPRS1900	810	VN	30	17.21	0.009011	2.5	PASS
EGPRS1900	810	VN	40	15.37	0.008047	2.5	PASS
EGPRS1900	810	VN	50	18.47	0.009670	2.5	PASS

The End



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