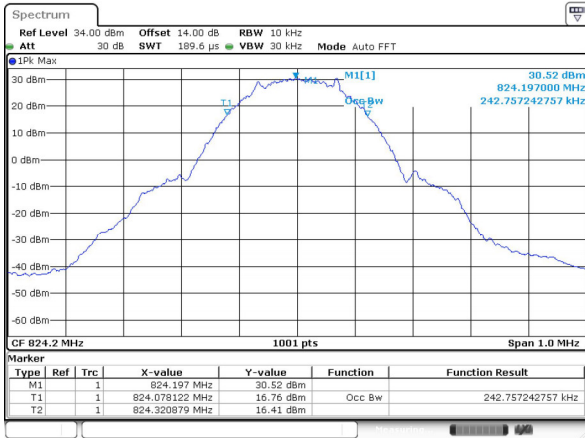




GSM850 (GSM)

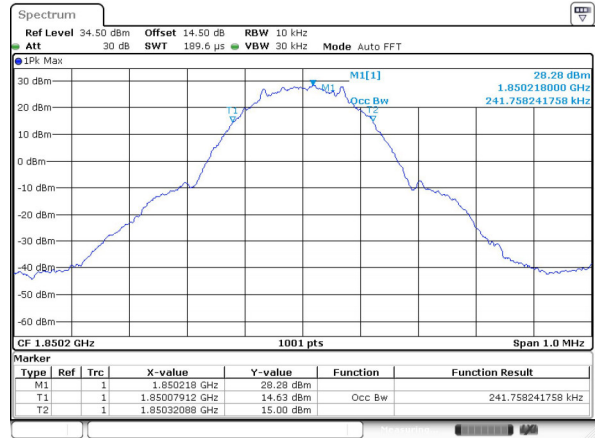
Lowest Channel



Date: 1.JUL 2017 17:53:03

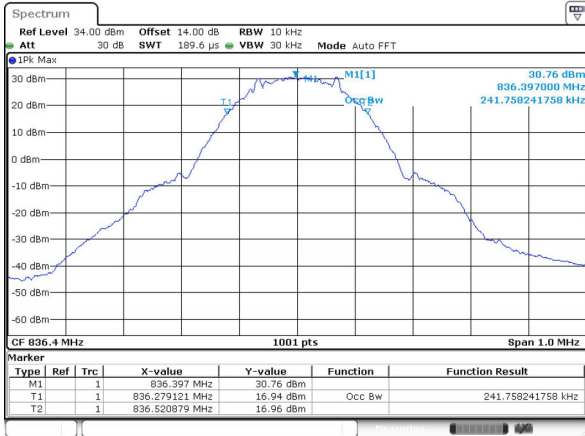
GSM1900 (GSM)

Lowest Channel



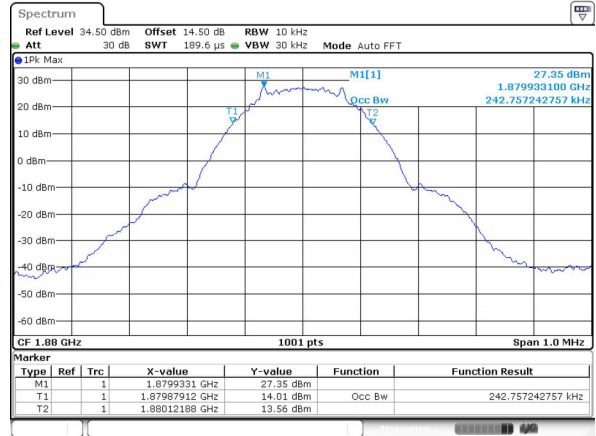
Date: 1.JUL 2017 18:19:34

Middle Channel



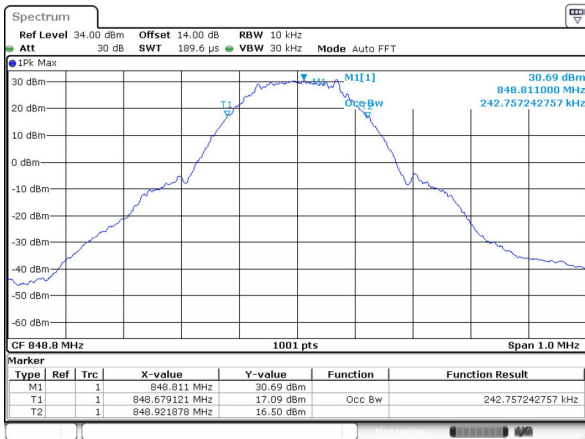
Date: 1.JUL 2017 17:54:28

Middle Channel



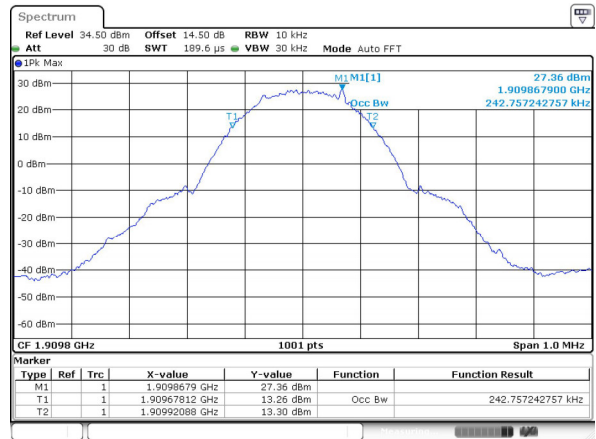
Date: 1.JUL 2017 18:21:02

Highest Channel



Date: 1.JUL 2017 17:55:36

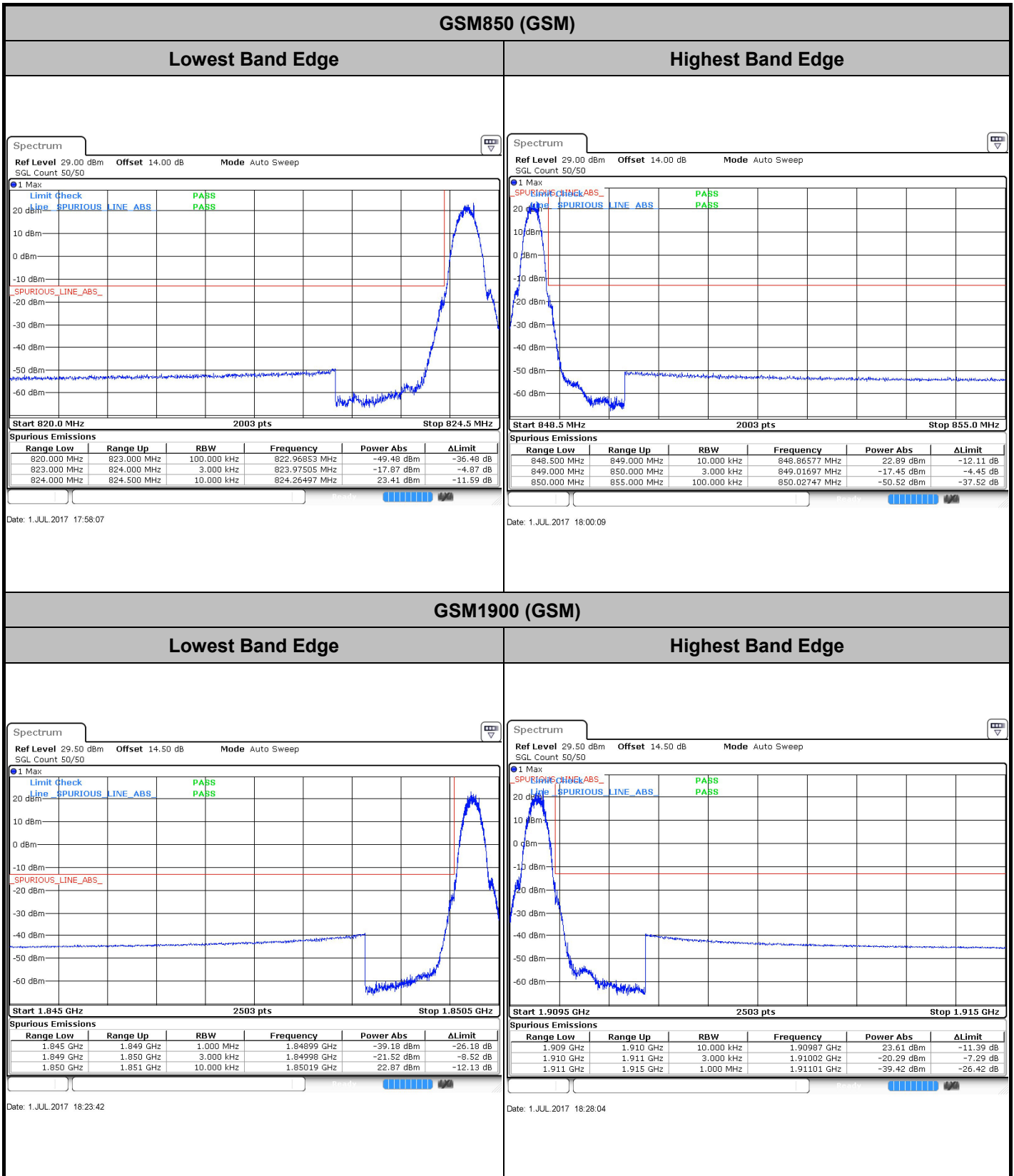
Highest Channel



Date: 1.JUL 2017 18:21:48

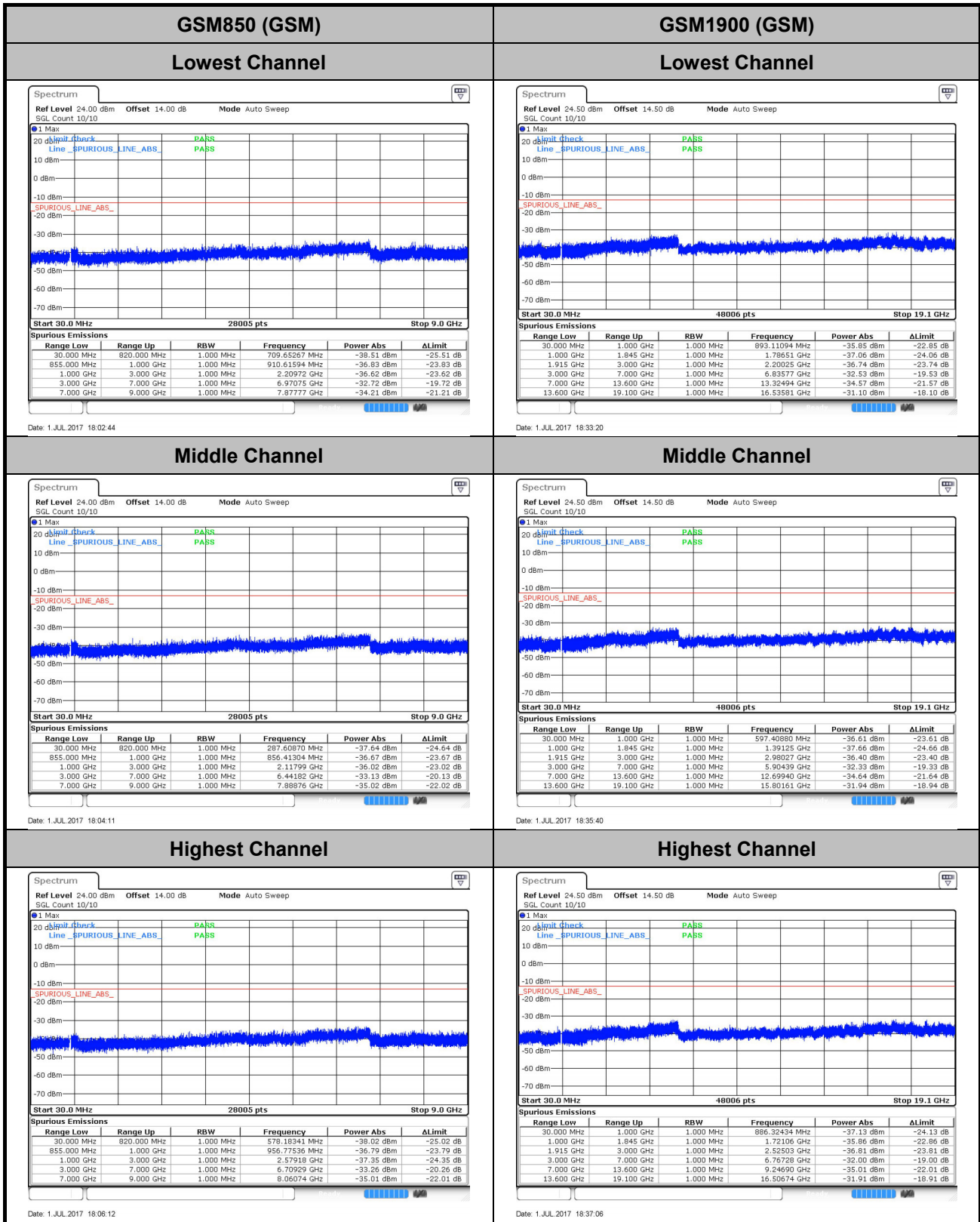


Conducted Band Edge





Conducted Spurious Emission





Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)		Limit
		Deviation (ppm)		2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0150	-	PASS
40	Normal Voltage	0.0042	-	
30	Normal Voltage	0.0096	-	
20(Ref.)	Normal Voltage	0.0000	-	
10	Normal Voltage	0.0008	-	
0	Normal Voltage	0.0005	-	
-10	Normal Voltage	0.0113	-	
-20	Normal Voltage	0.0076	-	
-30	Normal Voltage	0.0033	-	
20	Maximum Voltage	0.0004	-	
20	Normal Voltage	0.0000	-	
20	Battery End Point	0.0069	-	

Note: Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel	GSM1900 (GSM)		Limit
		Deviation (ppm)		Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0003	-	PASS
40	Normal Voltage	0.0033	-	
30	Normal Voltage	0.0018	-	
20(Ref.)	Normal Voltage	0.0000	-	
10	Normal Voltage	0.0048	-	
0	Normal Voltage	0.0036	-	
-10	Normal Voltage	0.0020	-	
-20	Normal Voltage	0.0063	-	
-30	Normal Voltage	0.0053	-	
20	Maximum Voltage	0.0057	-	
20	Normal Voltage	0.0000	-	
20	Battery End Point	0.0034	-	

Note:

1. Normal Voltage = 3.7V. ; Battery End Point (BEP) = 3.4 V. ; Maximum Voltage =4.2 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

GSM850 (GSM)									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672.8	-49.02	-13	-36.02	-56.80	-53.43	2.84	9.40	H
	2509.2	-56.44	-13	-43.44	-66.86	-61.19	3.7	10.60	H
	3345.6	-64.90	-13	-51.90	-79.66	-70.98	4.37	12.60	H
	4182	-61.09	-13	-48.09	-78.66	-66.69	4.85	12.60	H
	1672.8	-55.91	-13	-42.91	-60.62	-60.32	2.84	9.40	V
	2509.2	-62.64	-13	-49.64	-72.47	-67.39	3.70	10.60	V
	3345.6	-67.50	-13	-54.50	-81.07	-73.58	4.37	12.60	V
	4182	-63.89	-13	-50.89	-81.60	-69.49	4.85	12.60	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

GSM1900 (GSM)									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-39.06	-13	-26.06	-59.86	-46.81	4.85	12.60	H
	5640	-45.80	-13	-32.80	-69.25	-53.32	5.58	13.10	H
	7520	-52.93	-13	-39.93	-76.45	-57.67	6.56	11.30	H
	9400	-52.17	-13	-39.17	-80.21	-56.60	7.47	11.90	H
	11280	-41.12	-13	-28.12	-70.37	-45.55	7.47	11.90	H
	3760	-38.75	-13	-25.75	-60.08	-46.50	4.85	12.6	V
	5640	-46.43	-13	-33.43	-70.48	-53.95	5.58	13.1	V
	7520	-51.91	-13	-38.91	-75.45	-56.65	6.56	11.3	V
	9400	-45.97	-13	-32.97	-73.72	-50.40	7.47	11.9	V
	11280	-27.47	-13	-14.47	-59.63	-32.37	8.3	13.2	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.