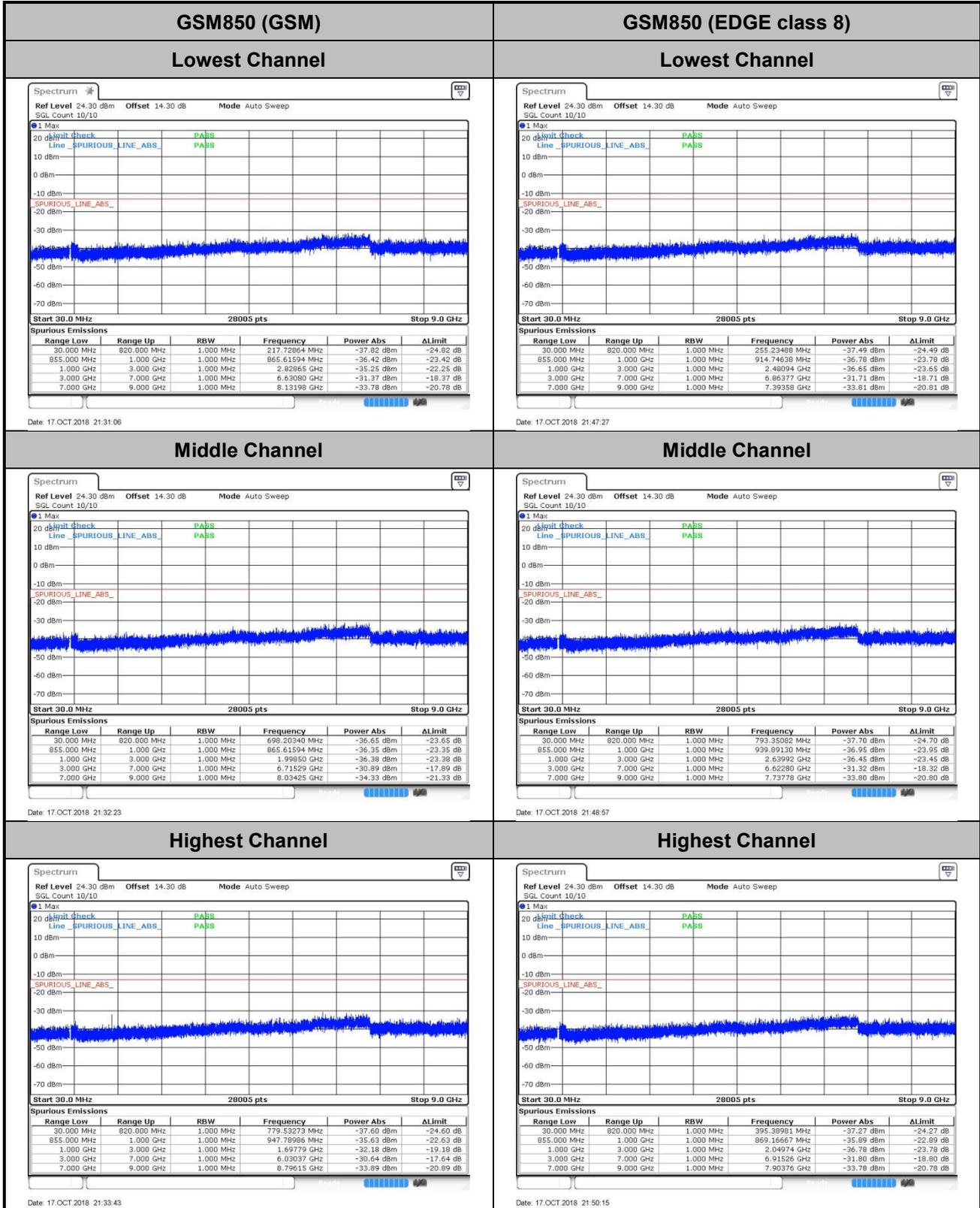




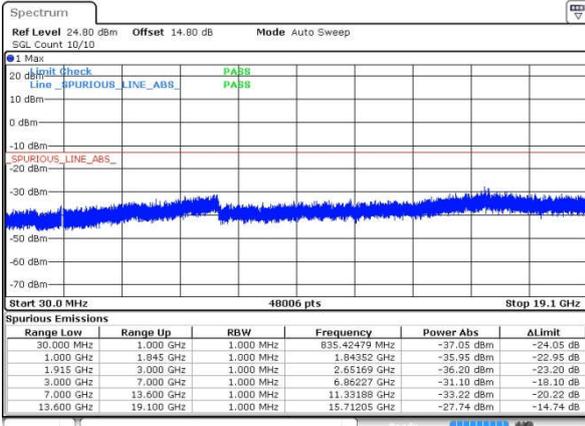
Conducted Spurious Emission





GSM1900 (GSM)

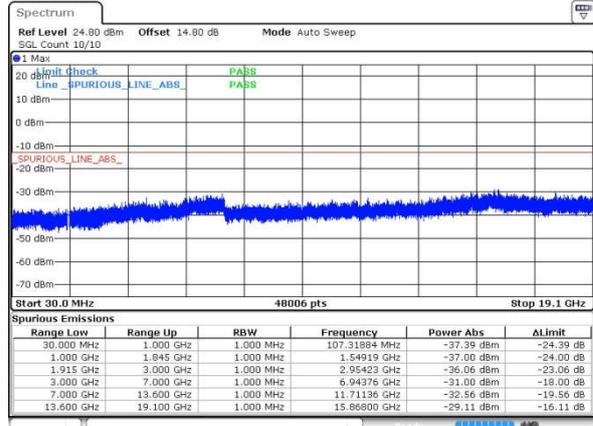
Lowest Channel



Date: 17.OCT.2018 22:10:46

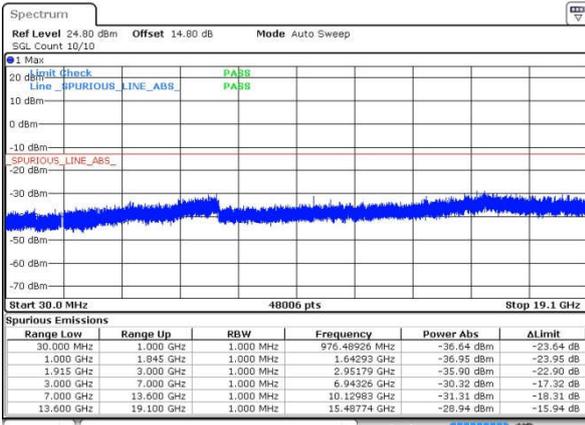
GSM1900 (EDGE class 8)

Lowest Channel



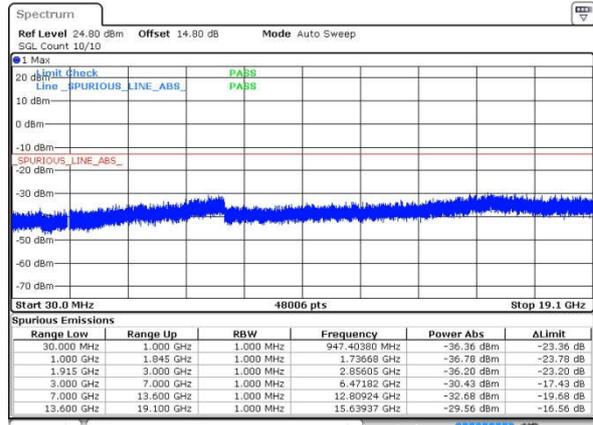
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Middle Channel



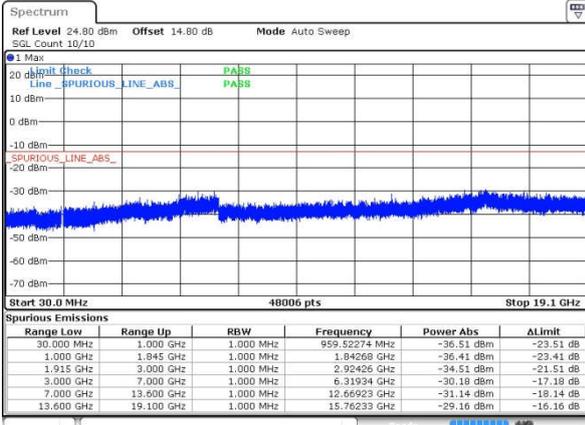
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Middle Channel



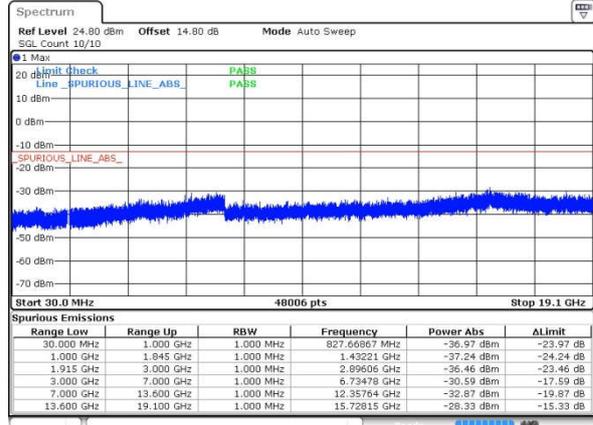
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Highest Channel



Date: 17.OCT.2018 22:13:28

Highest Channel

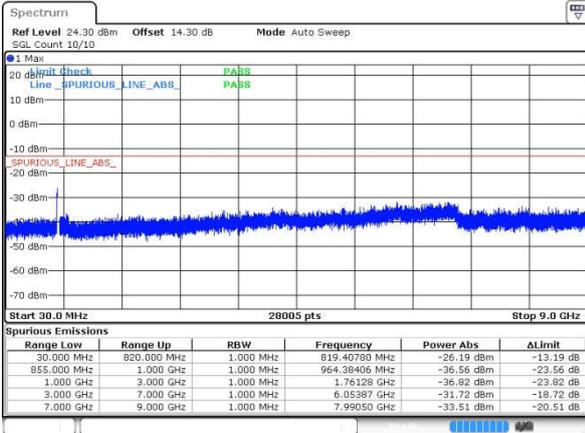


Date: 17.OCT.2018 22:28:20



WCDMA Band V (RMC 12.2Kbps)

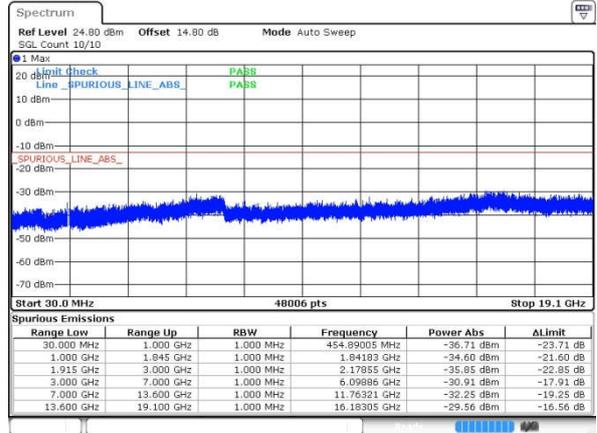
Lowest Channel



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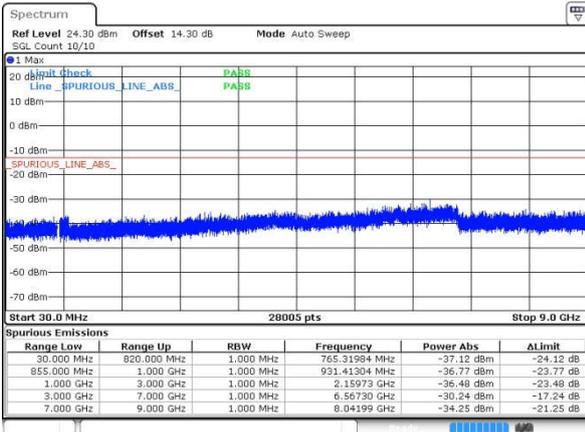
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



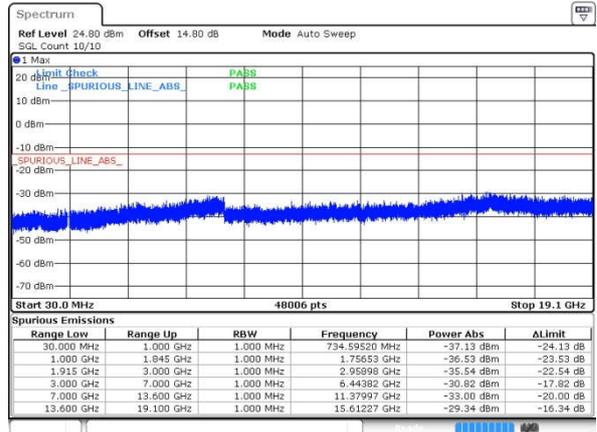
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Middle Channel



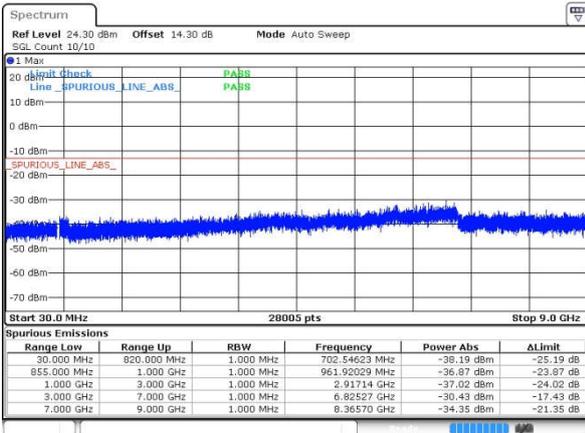
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Middle Channel



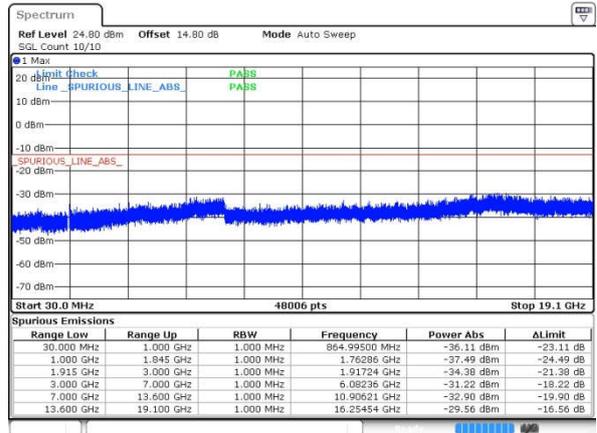
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Highest Channel

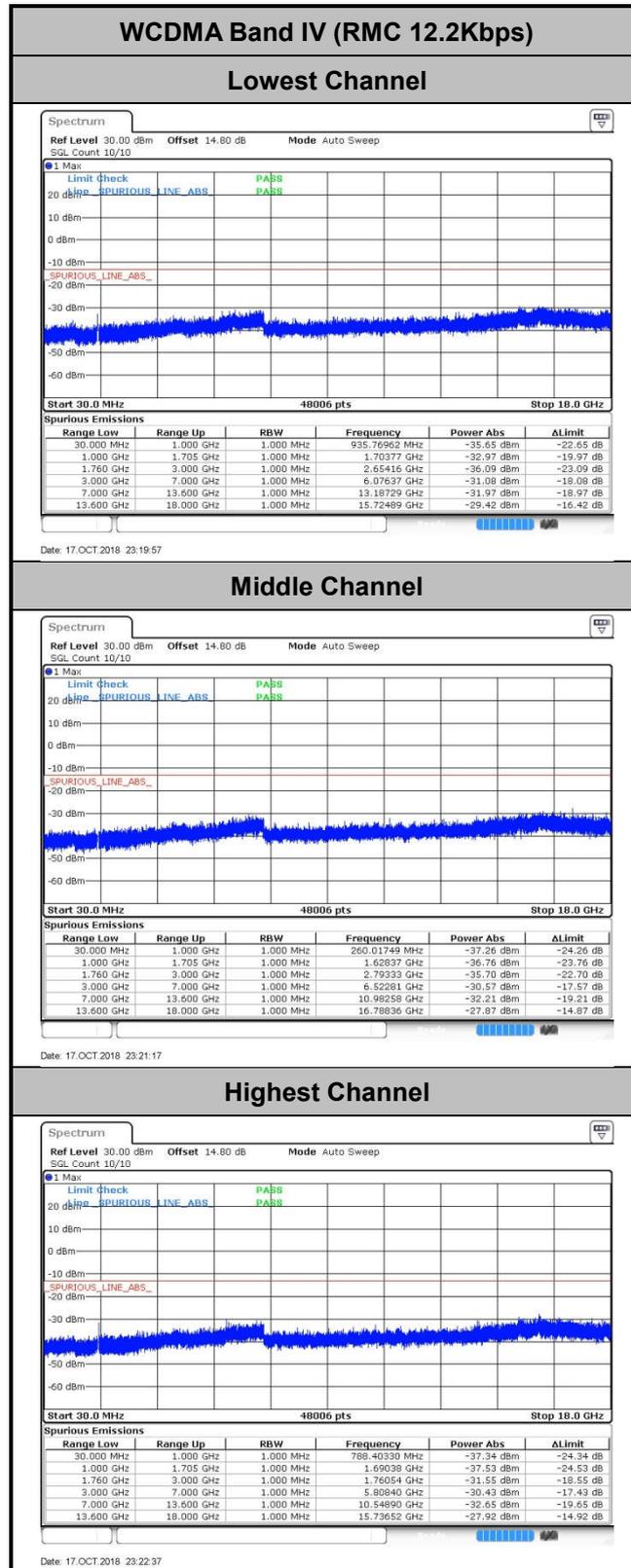


Date: 17.OCT.2018 22:47:13

Highest Channel



Date: 17.OCT.2018 23:04:44





Frequency Stability

Test Conditions	Middle Channel	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0036	0.0155	PASS
40	Normal Voltage	0.0407	0.0072	
30	Normal Voltage	0.0012	0.0299	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0371	0.0096	
0	Normal Voltage	0.0227	0.0335	
-10	Normal Voltage	0.0215	0.0227	
-20	Normal Voltage	0.0012	0.0072	
-30	Normal Voltage	0.0024	0.0239	
20	Maximum Voltage	0.0036	0.0143	
20	Normal Voltage	0.0036	0.0108	
20	Battery End Point	0.0191	0.0120	

Note: Normal Voltage = 3.82V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0160	0.0064	PASS
40	Normal Voltage	0.0011	0.0176	
30	Normal Voltage	0.0048	0.0122	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0176	0.0144	
0	Normal Voltage	0.0138	0.0154	
-10	Normal Voltage	0.0011	0.0165	
-20	Normal Voltage	0.0133	0.0101	
-30	Normal Voltage	0.0016	0.0186	
20	Maximum Voltage	0.0160	0.0106	
20	Normal Voltage	0.0005	0.0027	
20	Battery End Point	0.0037	0.0016	

Note:

1. Normal Voltage = 3.82V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0155	PASS
40	Normal Voltage	0.0418	
30	Normal Voltage	0.0395	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0179	
0	Normal Voltage	0.0359	
-10	Normal Voltage	0.0012	
-20	Normal Voltage	0.0203	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0514	
20	Normal Voltage	0.0191	
20	Battery End Point	0.0048	

Note: Normal Voltage = 3.82V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0112	PASS
40	Normal Voltage	0.0101	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0080	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0000	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0080	
20	Battery End Point	0.0096	

Note:

1. Normal Voltage = 3.82V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0144	PASS
40	Normal Voltage	0.0133	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0110	
0	Normal Voltage	0.0075	
-10	Normal Voltage	0.0040	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0069	
20	Normal Voltage	0.0098	
20	Battery End Point	0.0023	

Note:

1. Normal Voltage = 3.82V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.4V
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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-52.55	-13	-39.55	-53.76	2.319	5.68	H
	2472	-57.31	-13	-44.31	-57.94	3.02	5.80	H
	3297	-64.19	-13	-51.19	-66.65	3.27	7.88	H
	1648	-50.45	-13	-37.45	-51.66	2.32	5.68	V
	2472	-53.13	-13	-40.13	-53.76	3.02	5.80	V
	3297	-64.22	-13	-51.22	-66.68	3.27	7.88	V
Middle	1672	-58.47	-13	-45.47	-59.68	2.319	5.68	H
	2510	-63.88	-13	-50.88	-64.51	3.02	5.80	H
	3345	-64.48	-13	-51.48	-66.94	3.27	7.88	H
	1672	-56.65	-13	-43.65	-57.86	2.32	5.68	V
	2510	-55.90	-13	-42.90	-56.53	3.02	5.80	V
	3345	-64.59	-13	-51.59	-67.05	3.27	7.88	V
Highest	1698	-62.51	-13	-49.51	-63.72	2.319	5.68	H
	2546	-64.34	-13	-51.34	-64.97	3.02	5.80	H
	3396	-64.27	-13	-51.27	-66.73	3.27	7.88	H
	1698	-64.78	-13	-51.78	-65.99	2.32	5.68	V
	2546	-59.59	-13	-46.59	-60.22	3.02	5.80	V
	3396	-63.96	-13	-50.96	-66.42	3.27	7.88	V

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



GSM850 (EDGE class 8)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1648	-53.41	-13	-40.41	-54.62	2.319	5.68	H
	2472	-55.74	-13	-42.74	-56.37	3.02	5.80	H
	3297	-64.23	-13	-51.23	-66.69	3.27	7.88	H
	1648	-52.42	-13	-39.42	-53.63	2.32	5.68	V
	2472	-59.64	-13	-46.64	-60.27	3.02	5.80	V
	3297	-64.33	-13	-51.33	-66.79	3.27	7.88	V
Middle	1672	-59.16	-13	-46.16	-60.37	2.319	5.68	H
	2510	-58.09	-13	-45.09	-58.72	3.02	5.80	H
	3345	-64.50	-13	-51.50	-66.96	3.27	7.88	H
	1672	-62.69	-13	-49.69	-63.90	2.32	5.68	V
	2508	-62.95	-13	-49.95	-63.58	3.02	5.80	V
	3345	-64.29	-13	-51.29	-66.75	3.27	7.88	V
Highest	1698	-62.60	-13	-49.60	-63.81	2.319	5.68	H
	2546	-61.78	-13	-48.78	-62.41	3.02	5.80	H
	3396	-64.29	-13	-51.29	-66.75	3.27	7.88	H
	1698	-63.43	-13	-50.43	-64.64	2.32	5.68	V
	2546	-63.01	-13	-50.01	-63.64	3.02	5.80	V
	3396	-64.13	-13	-51.13	-66.59	3.27	7.88	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-62.03	-13	-49.03	-66.90	3.55	8.42	H
	5550	-59.46	-13	-46.46	-65.80	4.34	10.68	H
	7401	-55.50	-13	-42.50	-62.30	5.14	11.94	H
	3699	-59.15	-13	-46.15	-64.02	3.55	8.42	V
	5550	-60.14	-13	-47.14	-66.48	4.34	10.68	V
	7401	-55.19	-13	-42.19	-61.99	5.14	11.94	V
Middle	3759	-61.52	-13	-48.52	-66.39	3.55	8.42	H
	5640	-55.52	-13	-42.52	-61.86	4.34	10.68	H
	7521	-54.61	-13	-41.61	-61.41	5.14	11.94	H
	3759	-60.30	-13	-47.30	-65.17	3.55	8.42	V
	5640	-57.54	-13	-44.54	-63.88	4.34	10.68	V
	7521	-54.32	-13	-41.32	-61.12	5.14	11.94	V
Highest	3819	-61.86	-13	-48.86	-66.73	3.55	8.42	H
	5730	-56.77	-13	-43.77	-63.11	4.34	10.68	H
	7638	-54.75	-13	-41.75	-61.55	5.14	11.94	H
	3819	-61.32	-13	-48.32	-66.19	3.55	8.42	V
	5730	-59.02	-13	-46.02	-65.36	4.34	10.68	V
	7638	-54.46	-13	-41.46	-61.26	5.14	11.94	V

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



GSM1900 (EDGE class 8)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3699	-62.76	-13	-49.76	-67.63	3.55	8.42	H
	5550	-60.69	-13	-47.69	-67.03	4.34	10.68	H
	7401	-55.98	-13	-42.98	-62.78	5.14	11.94	H
	3699	-62.82	-13	-49.82	-67.69	3.55	8.42	V
	5550	-60.83	-13	-47.83	-67.17	4.34	10.68	V
	7401	-55.62	-13	-42.62	-62.42	5.14	11.94	V
Middle	3759	-62.80	-13	-49.80	-67.67	3.55	8.42	H
	5640	-60.44	-13	-47.44	-66.78	4.34	10.68	H
	7521	-55.15	-13	-42.15	-61.95	5.14	11.94	H
	3759	-62.60	-13	-49.60	-67.47	3.55	8.42	V
	5640	-60.41	-13	-47.41	-66.75	4.34	10.68	V
	7521	-54.81	-13	-41.81	-61.61	5.14	11.94	V
Highest	3819	-63.01	-13	-50.01	-67.88	3.55	8.42	H
	5730	-60.03	-13	-47.03	-66.37	4.34	10.68	H
	7638	-54.69	-13	-41.69	-61.49	5.14	11.94	H
	3819	-62.60	-13	-49.60	-67.47	3.55	8.42	V
	5730	-60.20	-13	-47.20	-66.54	4.34	10.68	V
	7638	-54.26	-13	-41.26	-61.06	5.14	11.94	V

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



WCDMA Band V(RMC 12.2Kbps)								
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1652	-68.31	-13	-55.31	-69.52	2.319	5.68	H
	2479.2	-65.19	-13	-52.19	-65.82	3.02	5.80	H
	3306	-64.06	-13	-51.06	-66.52	3.27	7.88	H
	1652	-68.36	-13	-55.36	-69.57	2.32	5.68	V
	2480	-65.23	-13	-52.23	-65.86	3.02	5.80	V
	3306	-63.61	-13	-50.61	-66.07	3.27	7.88	V
Middle	1672	-68.10	-13	-55.10	-69.31	2.319	5.68	H
	2510	-65.28	-13	-52.28	-65.91	3.02	5.80	H
	3345	-63.81	-13	-50.81	-66.27	3.27	7.88	H
	1672.8	-67.83	-13	-54.83	-69.04	2.32	5.68	V
	2510	-64.84	-13	-51.84	-65.47	3.02	5.80	V
	3348	-63.38	-13	-50.38	-65.84	3.27	7.88	V
Highest	1694	-67.94	-13	-54.94	-69.15	2.319	5.68	H
	2539.8	-65.13	-13	-52.13	-65.76	3.02	5.80	H
	3387	-63.77	-13	-50.77	-66.23	3.27	7.88	H
	1694	-68.25	-13	-55.25	-69.46	2.32	5.68	V
	2540	-65.42	-13	-52.42	-66.05	3.02	5.80	V
	3387	-63.82	-13	-50.82	-66.28	3.27	7.88	V

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



WCDMA Band II(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3705	-63.06	-13	-50.06	-67.93	3.55	8.42	H
	5556	-60.85	-13	-47.85	-67.19	4.34	10.68	H
	7410	-55.51	-13	-42.51	-62.31	5.14	11.94	H
	3705	-63.08	-13	-50.08	-67.95	3.55	8.42	V
	5556	-61.12	-13	-48.12	-67.46	4.34	10.68	V
	7410	-55.39	-13	-42.39	-62.19	5.14	11.94	V
Middle	3759	-62.74	-13	-49.74	-67.61	3.55	8.42	H
	5640	-60.30	-13	-47.30	-66.64	4.34	10.68	H
	7521	-55.42	-13	-42.42	-62.22	5.14	11.94	H
	3759	-62.93	-13	-49.93	-67.80	3.55	8.42	V
	5640	-60.36	-13	-47.36	-66.70	4.34	10.68	V
	7521	-54.88	-13	-41.88	-61.68	5.14	11.94	V
Highest	3816	-62.76	-13	-49.76	-67.63	3.55	8.42	H
	5724	-59.97	-13	-46.97	-66.31	4.34	10.68	H
	7629	-54.47	-13	-41.47	-61.27	5.14	11.94	H
	3816	-62.93	-13	-49.93	-67.80	3.55	8.42	V
	5724	-60.20	-13	-47.20	-66.54	4.34	10.68	V
	7629	-54.40	-13	-41.40	-61.20	5.14	11.94	V

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



WCDMA Band IV(RMC 12.2Kbps)								
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3426	-64.20	-13	-51.20	-68.92	3.41	8.13	H
	5136	-60.57	-13	-47.57	-66.58	4.195	10.20	H
	6849	-57.53	-13	-44.53	-63.98	4.91	11.36	H
	3426	-64.37	-13	-51.37	-69.09	3.413	8.13	V
	5136	-59.74	-13	-46.74	-65.75	4.195	10.20	V
	6849	-57.64	-13	-44.64	-64.09	4.911	11.36	V
Middle	3465	-64.39	-13	-51.39	-69.11	3.41	8.13	H
	5196	-59.10	-13	-46.10	-65.11	4.195	10.20	H
	6930	-57.27	-13	-44.27	-63.72	4.91	11.36	H
	3465	-64.22	-13	-51.22	-68.94	3.413	8.13	V
	5202	-57.51	-13	-44.51	-63.52	4.195	10.20	V
	6930	-56.82	-13	-43.82	-63.27	4.911	11.36	V
Highest	3504	-63.91	-13	-50.91	-68.63	3.41	8.13	H
	5259	-60.86	-13	-47.86	-66.87	4.195	10.20	H
	7011	-56.99	-13	-43.99	-63.44	4.91	11.36	H
	3504	-63.83	-13	-50.83	-68.55	3.413	8.13	V
	5259	-60.48	-13	-47.48	-66.49	4.195	10.20	V
	7011	-57.14	-13	-44.14	-63.59	4.911	11.36	V

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