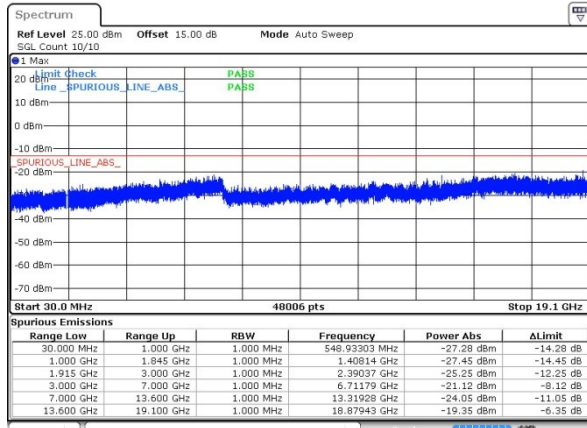




GSM1900 (GSM)

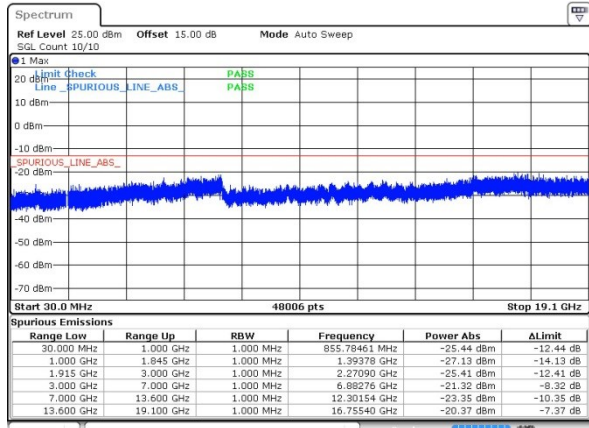
Lowest Channel



Date: 30 OCT 2017 10:42:12

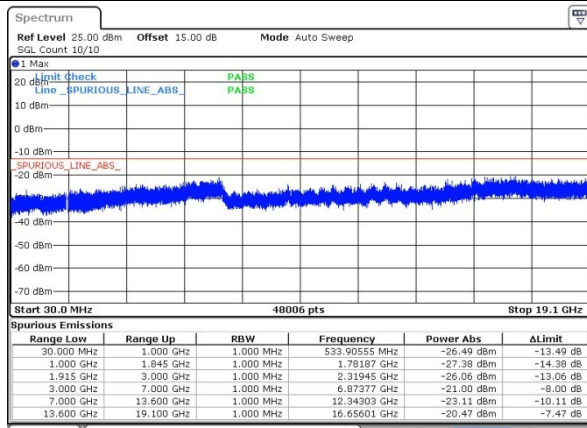
GSM1900 (EDGE class 8)

Lowest Channel



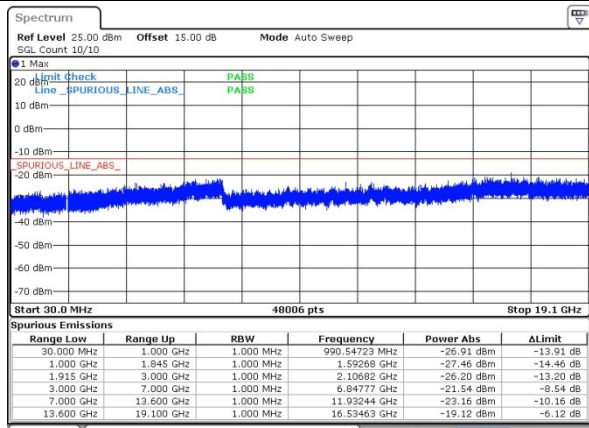
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Middle Channel



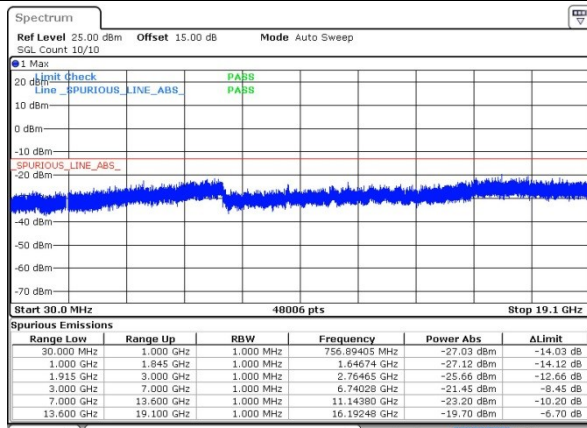
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Middle Channel



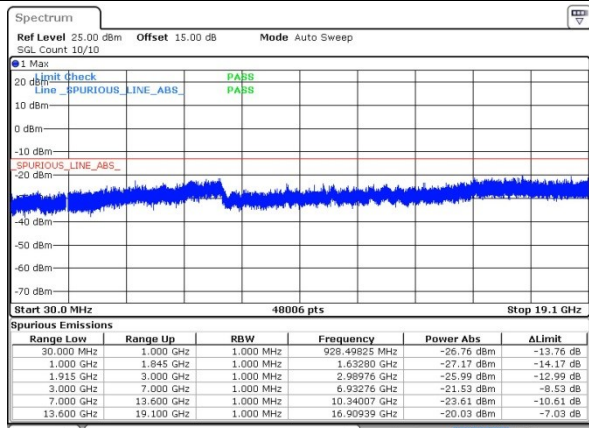
Date: 30 OCT 2017 10:55:23

Highest Channel



Date: 30 OCT 2017 10:44:57

Highest Channel

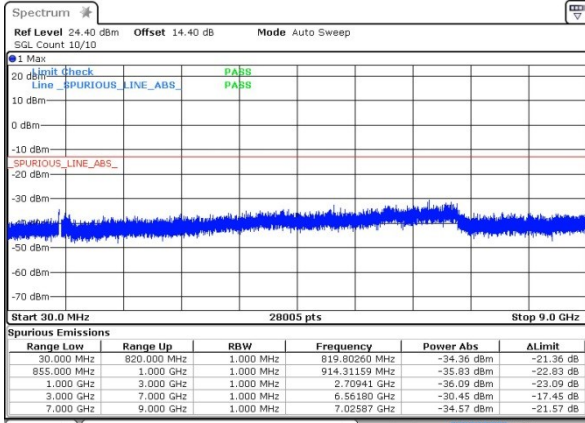


Date: 30 OCT 2017 13:06:47



CDMA BC0 (1xRTT)

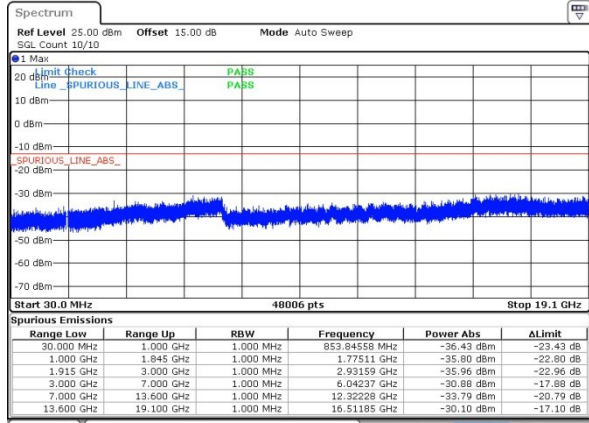
Lowest Channel



Date: 15 DEC 2017 17:28:26

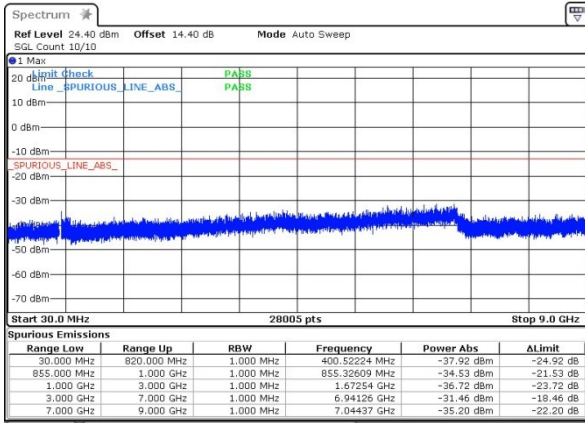
CDMA BC1 (1xRTT)

Lowest Channel



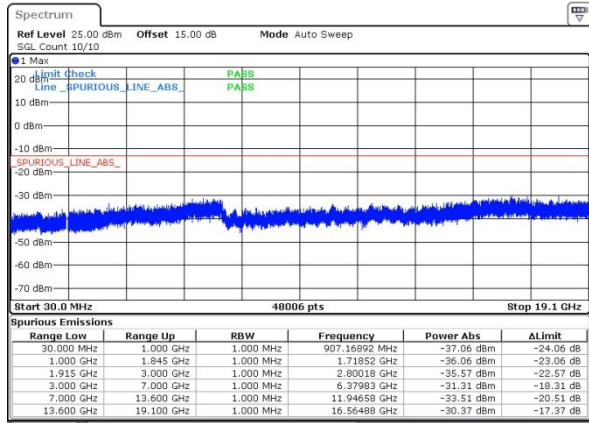
Date: 15 DEC 2017 15:20:55

Middle Channel



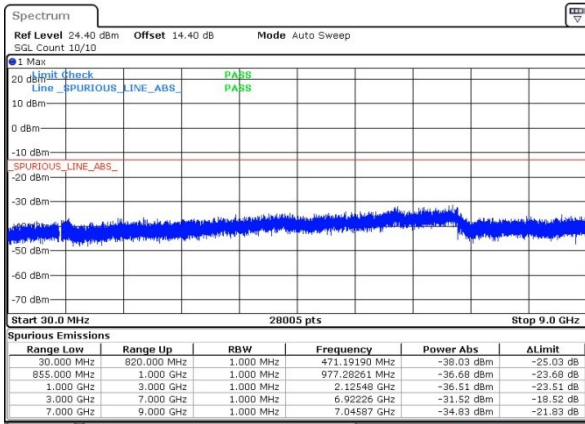
Date: 15 DEC 2017 17:29:42

Middle Channel



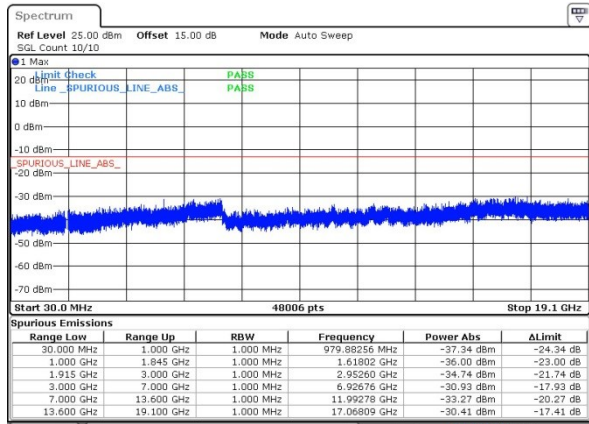
Date: 15 DEC 2017 15:22:11

Highest Channel



Date: 15 DEC 2017 17:30:58

Highest Channel

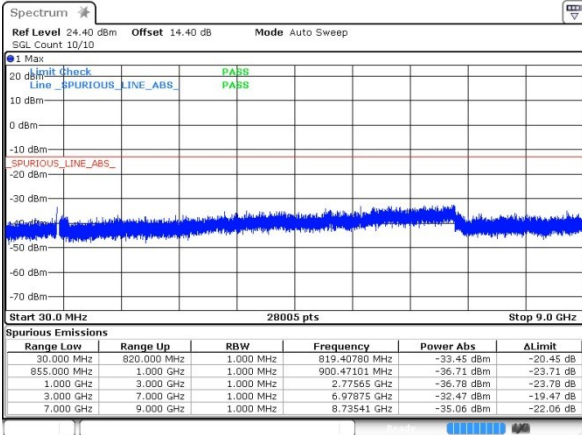


Date: 15 DEC 2017 15:23:28



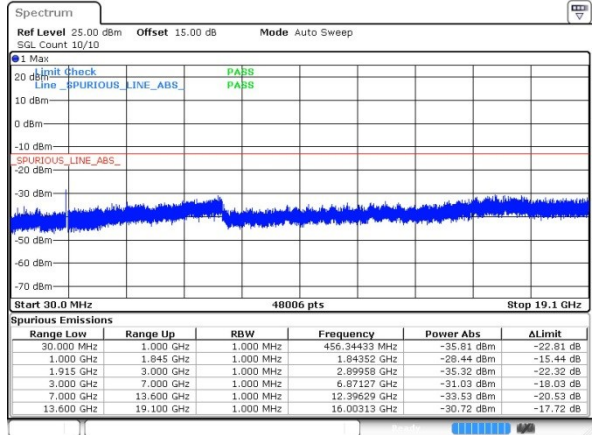
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

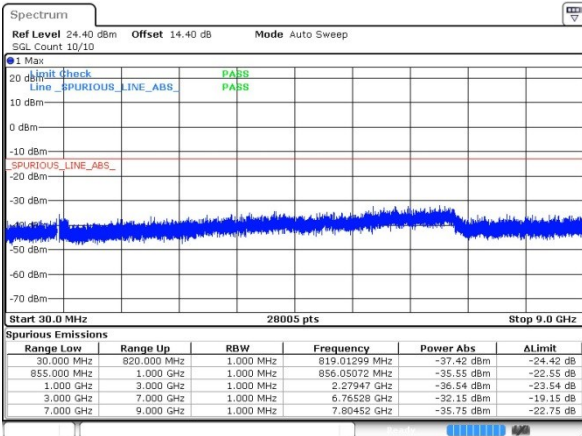


WCDMA Band II (RMC 12.2Kbps)

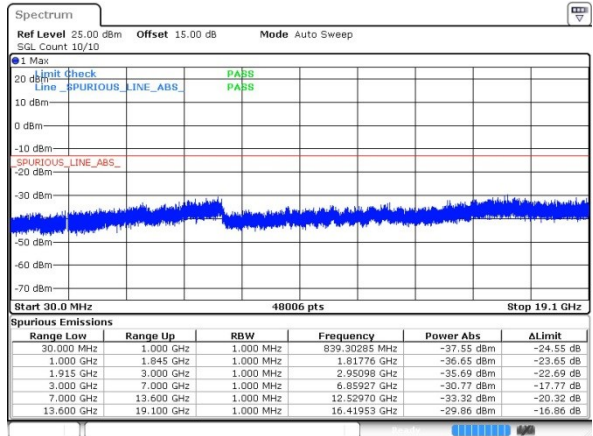
Lowest Channel



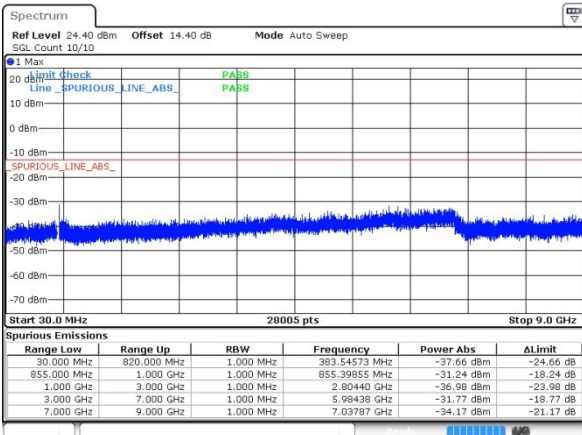
Middle Channel



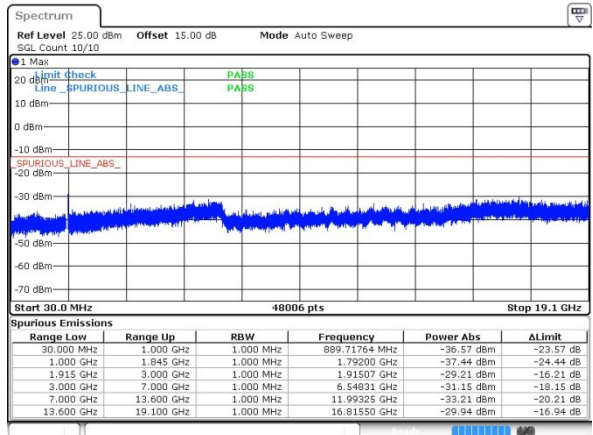
Middle Channel



Highest Channel



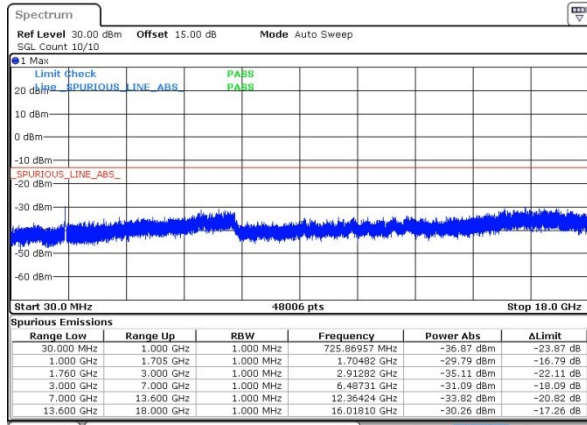
Highest Channel





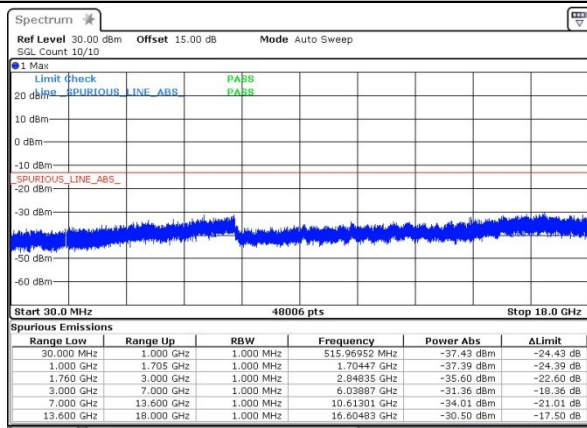
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



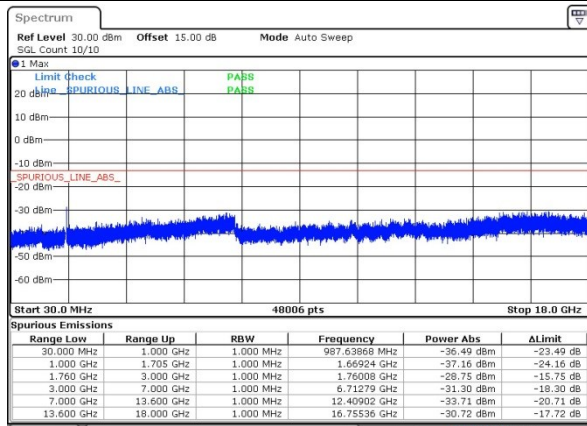
Date: 30 OCT.2017 09:59:20

Middle Channel



Date: 30 OCT.2017 10:00:42

Highest Channel



Date: 30 OCT.2017 10:02:05

**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	0.0084	0.0275	PASS
40	Normal Voltage	0.0108	0.0024	
30	Normal Voltage	0.0299	0.0251	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0263	0.0024	
0	Normal Voltage	0.0167	0.0263	
-10	Normal Voltage	0.0120	0.0347	
-20	Normal Voltage	0.0203	0.0179	
-30	Normal Voltage	0.0251	0.0323	
20	Maximum Voltage	0.0215	0.0347	
20	Normal Voltage	0.0311	0.0311	
20	Battery End Point	0.0143	0.0215	

Note: Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0021	0.0059	PASS
40	Normal Voltage	0.0011	0.0059	
30	Normal Voltage	0.0197	0.0080	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0032	0.0032	
0	Normal Voltage	0.0021	0.0160	
-10	Normal Voltage	0.0160	0.0011	
-20	Normal Voltage	0.0005	0.0085	
-30	Normal Voltage	0.0154	0.0085	
20	Maximum Voltage	0.0144	0.0048	
20	Normal Voltage	0.0133	0.0138	
20	Battery End Point	0.0053	0.0053	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 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.



Test Conditions	Middle Channel	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0155	
30	Normal Voltage	0.0072	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0048	
0	Normal Voltage	0.0215	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0179	
-30	Normal Voltage	0.0251	
20	Maximum Voltage	0.0024	
20	Normal Voltage	0.0084	
20	Battery End Point	0.0191	

Note: Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0064	
0	Normal Voltage	0.0085	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0096	
-30	Normal Voltage	0.0128	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0133	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 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.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0036	PASS
40	Normal Voltage	0.0191	
30	Normal Voltage	0.0203	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0263	
-10	Normal Voltage	0.0227	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0155	
20	Maximum Voltage	0.0048	
20	Normal Voltage	0.0215	
20	Battery End Point	0.0143	

Note: Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 V. ; Maximum Voltage =4.2 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0037	PASS
40	Normal Voltage	0.0027	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0069	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0059	
20	Normal Voltage	0.0053	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 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.



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0139	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0092	
0	Normal Voltage	0.0069	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0052	
-30	Normal Voltage	0.0035	
20	Maximum Voltage	0.0087	
20	Normal Voltage	0.0012	
20	Battery End Point	0.0081	

Note:

1. Normal Voltage = 3.7 V. ; Battery End Point (BEP) = 3.5 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

For Bottom Antenna

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	-40.64	-13	-27.64	-44.03	-42.55	1.14	5.20	H
	2510	-58.82	-13	-45.82	-63.12	-61.45	1.12	5.90	H
	3345	-60.33	-13	-47.33	-64.45	-63.54	1.34	6.70	H
	1672	-41.24	-13	-28.24	-43.35	-43.15	1.14	5.20	V
	2510	-59.84	-13	-46.84	-62.91	-62.47	1.12	5.90	V
	3345	-60.04	-13	-47.04	-65.18	-63.25	1.34	6.70	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-57.13	-13	-44.13	-57.45	-59.04	1.14	5.20	H
	2510	-60.06	-13	-47.06	-64.36	-62.69	1.12	5.90	H
	3345	-61.98	-13	-48.98	-66.10	-65.19	1.34	6.70	H
	1672	-62.23	-13	-49.23	-61.33	-64.14	1.14	5.20	V
	2510	-60.26	-13	-47.26	-63.33	-62.89	1.12	5.90	V
	3345	-62.24	-13	-49.24	-67.38	-65.45	1.34	6.70	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	3759	-60.59	-13	-47.59	-67.97	-65.76	1.83	7.00	H
	5640	-56.32	-13	-43.32	-68.49	-63.94	2.18	9.80	H
	7521	-52.84	-13	-39.84	-70.07	-62.51	2.53	12.20	H
	3759	-58.20	-13	-45.20	-67.05	-63.37	1.83	7.00	V
	5640	-55.71	-13	-42.71	-69.88	-63.33	2.18	9.80	V
	7521	-49.32	-13	-36.32	-70.42	-58.99	2.53	12.20	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-60.79	-13	-47.79	-68.17	-65.96	1.83	7.00	H
	5640	-57.88	-13	-44.88	-70.05	-65.50	2.18	9.80	H
	7521	-53.81	-13	-40.81	-71.04	-63.48	2.53	12.20	H
	3759	-58.77	-13	-45.77	-67.62	-63.94	1.83	7.00	V
	5640	-55.42	-13	-42.42	-69.59	-63.04	2.18	9.80	V
	7521	-48.71	-13	-35.71	-69.81	-58.38	2.53	12.20	V

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



CDMA BC0(1xRTT)									
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	1674	-60.75	-13	-47.75	-63.35	-63.07	1.33	5.80	H
	2510	-59.49	-13	-46.49	-68.84	-62.66	1.58	6.90	H
	3345	-62.08	-13	-49.08	-71.29	-65.58	1.85	7.50	H
	1674	-60.06	-13	-47.06	-61.93	-62.38	1.33	5.80	V
	2510	-61.30	-13	-48.30	-69.27	-64.47	1.58	6.90	V
	3345	-62.36	-13	-49.36	-71.38	-65.86	1.85	7.50	V

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

CDMA BC1(1xRTT)									
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	3759	-53.42	-13	-40.42	-67.66	-55.13	5.08	6.80	H
	5640	-53.58	-13	-40.58	-70.38	-55.25	8.03	9.70	H
	7521	-48.52	-13	-35.52	-69.82	-50.90	9.43	11.81	H
	3759	-59.00	-13	-46.00	-71.43	-60.71	5.08	6.80	V
	5640	-53.56	-13	-40.56	-70.65	-55.23	8.03	9.70	V
	7521	-50.20	-13	-37.20	-71.34	-52.58	9.43	11.81	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-60.57	-13	-47.57	-60.89	-62.48	1.14	5.20	H
	2510	-60.54	-13	-47.54	-64.84	-63.17	1.12	5.90	H
	3345	-63.34	-13	-50.34	-67.46	-66.55	1.34	6.70	H
	1672	-63.16	-13	-50.16	-62.26	-65.07	1.14	5.20	V
	2510	-60.78	-13	-47.78	-63.85	-63.41	1.12	5.90	V
	3345	-61.18	-13	-48.18	-66.32	-64.39	1.34	6.70	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-60.21	-13	-47.21	-67.59	-65.38	1.83	7.00	H
	5640	-56.69	-13	-43.69	-68.86	-64.31	2.18	9.80	H
	7521	-53.15	-13	-40.15	-70.38	-62.82	2.53	12.20	H
	3759	-59.15	-13	-46.15	-68	-64.32	1.83	7.00	V
	5640	-55.66	-13	-42.66	-69.83	-63.28	2.18	9.80	V
	7521	-48.86	-13	-35.86	-69.96	-58.53	2.53	12.20	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465.2	-58.28	-13	-45.28	-77.61	-66.51	4.37	12.60	H
	5197.8	-56.02	-13	-43.02	-80.18	-63.78	4.94	12.70	H
	6930.4	-57.02	-13	-44.02	-80.93	-62.40	6.32	11.70	H
	3465.2	-61.53	-13	-48.53	-77.61	-69.76	4.37	12.60	V
	5197.8	-58.44	-13	-45.44	-77.95	-66.20	4.94	12.70	V
	6930.4	-57.03	-13	-44.03	-80.94	-62.41	6.32	11.70	V

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



For Top Antenna

CDMA BC0(1xRTT)									
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	1674	-63.96	-13	-50.96	-66.56	-66.28	1.33	5.80	H
	2510	-59.82	-13	-46.82	-69.17	-62.99	1.58	6.90	H
	3345	-61.58	-13	-48.58	-70.79	-65.08	1.85	7.50	H
	1674	-65.59	-13	-52.59	-67.46	-67.91	1.33	5.80	V
	2510	-61.75	-13	-48.75	-69.72	-64.92	1.58	6.90	V
	3345	-62.43	-13	-49.43	-71.45	-65.93	1.85	7.50	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-62.21	-13	-49.21	-62.53	-64.12	1.14	5.20	H
	2508	-60.08	-13	-47.08	-64.38	-62.71	1.12	5.90	H
	3345	-62.61	-13	-49.61	-66.73	-65.82	1.34	6.70	H
	1672	-63.82	-13	-50.82	-62.92	-65.73	1.14	5.20	V
	2509	-61.23	-13	-48.23	-64.3	-63.86	1.12	5.90	V
	3345	-61.71	-13	-48.71	-66.85	-64.92	1.34	6.70	V

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