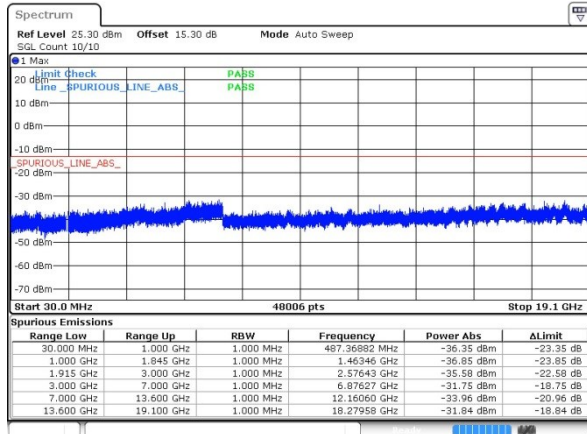




GSM1900 (GSM)

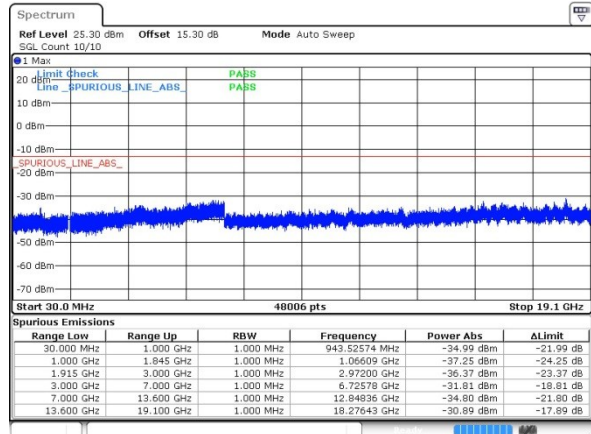
Lowest Channel



Date: 17 APR 2018 20:01:23

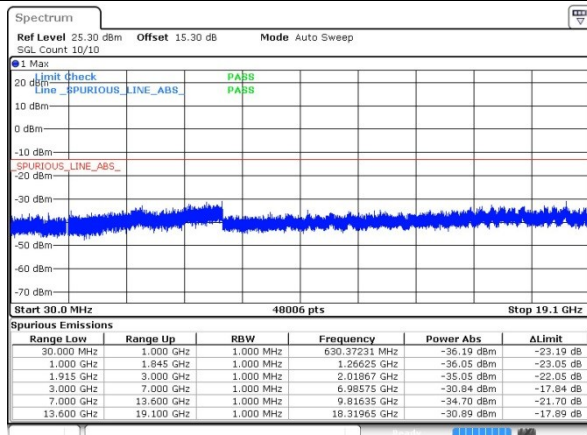
GSM1900 (EDGE class 8)

Lowest Channel



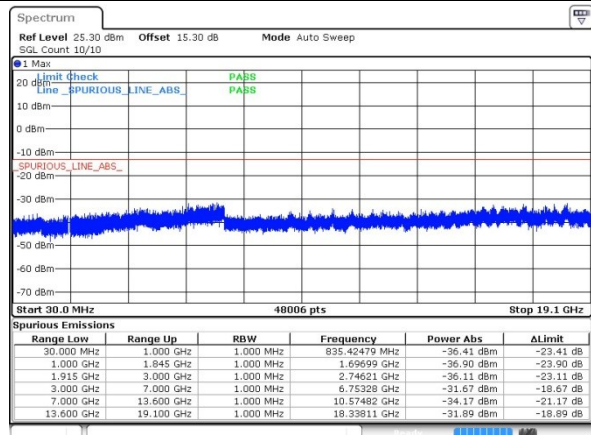
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Middle Channel



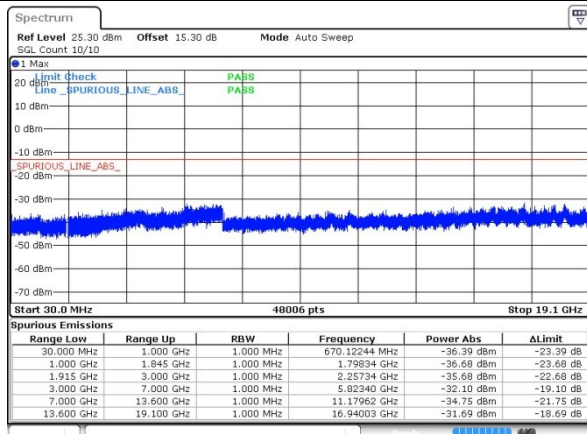
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Middle Channel



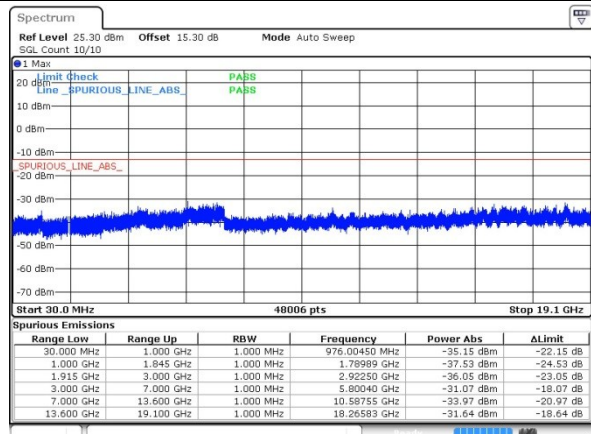
Date: 17 APR 2018 20:31:47

Highest Channel



Date: 17 APR 2018 20:03:55

Highest Channel

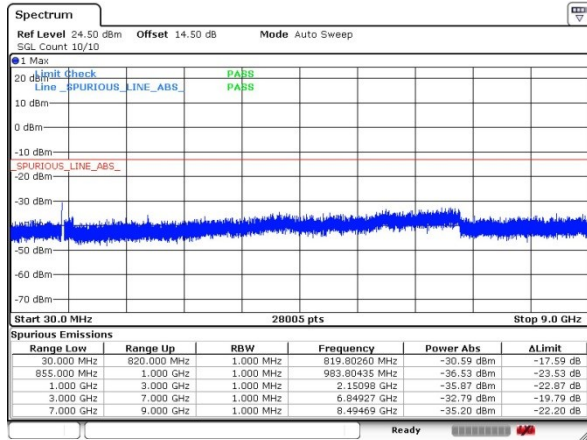


Date: 17 APR 2018 20:33:45



WCDMA Band V (RMC 12.2Kbps)

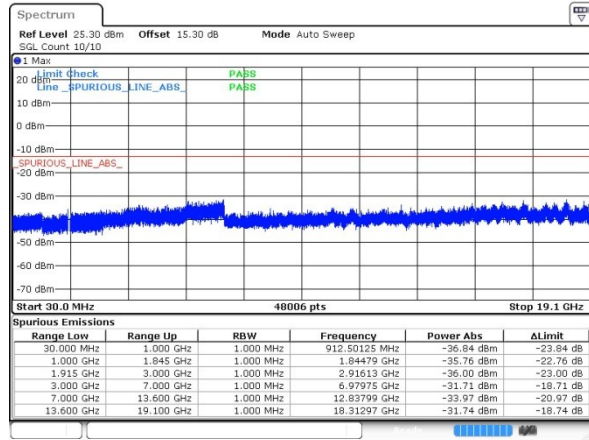
Lowest Channel



Date: 17 APR 2018 21:43:32

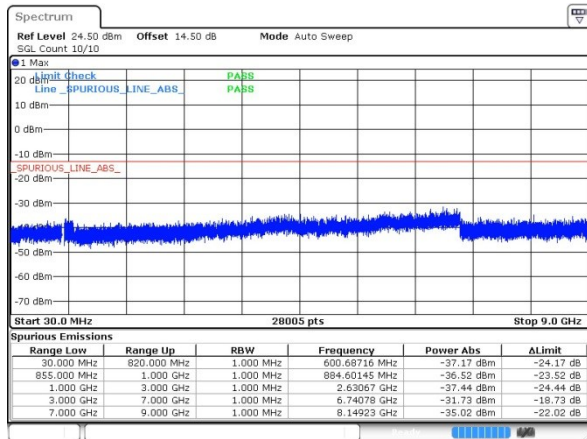
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



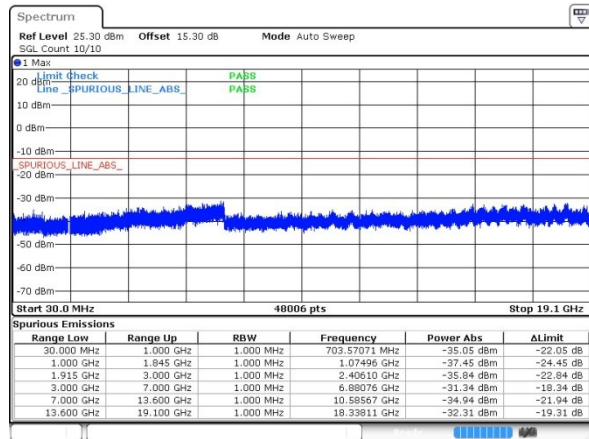
Date: 17 APR 2018 20:58:35

Middle Channel



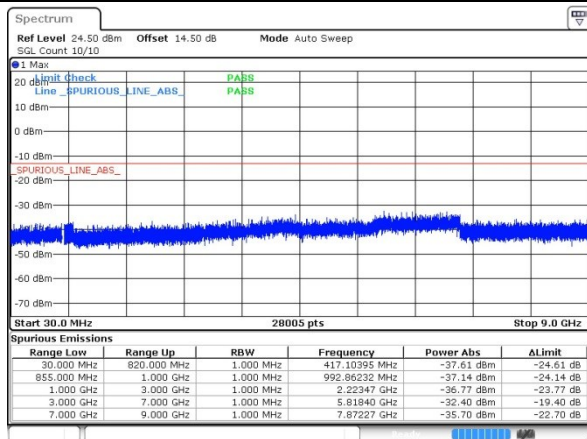
Date: 17 APR 2018 21:37:35

Middle Channel



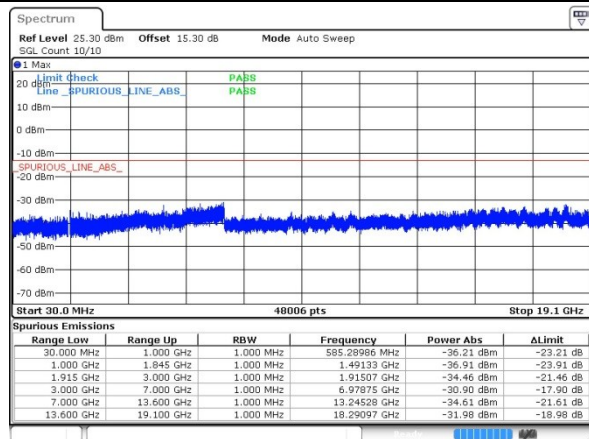
Date: 17 APR 2018 20:59:51

Highest Channel



Date: 17 APR 2018 21:38:51

Highest Channel

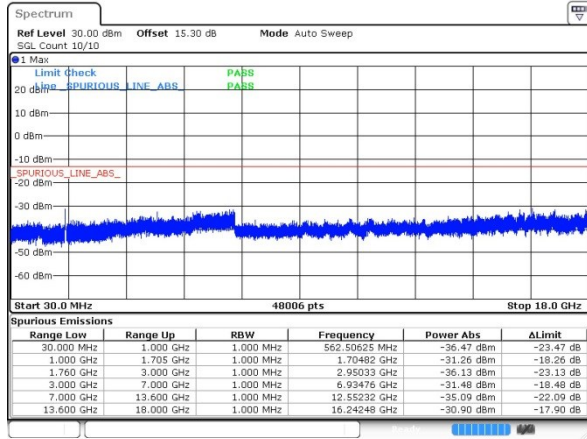


Date: 17 APR 2018 21:01:07



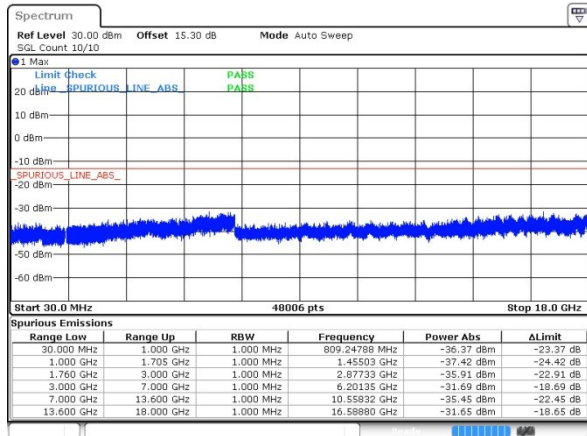
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



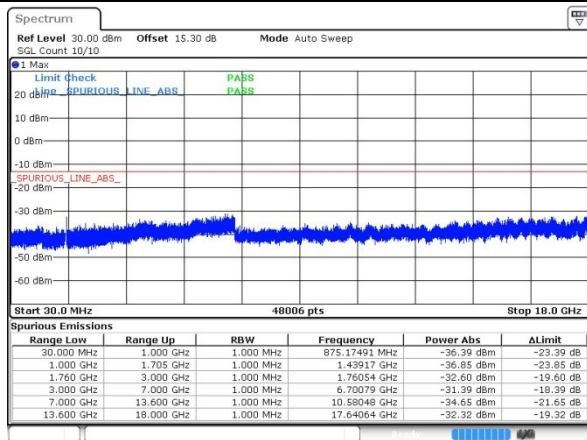
Date: 17 APR 2018 21:18:40

Middle Channel



Date: 17 APR 2018 21:19:56

Highest Channel

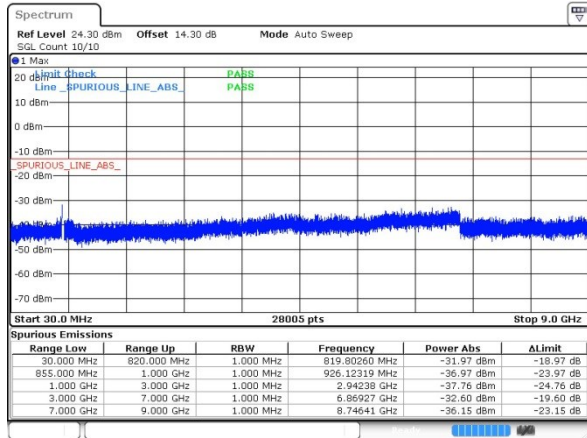


Date: 17 APR 2018 21:21:12



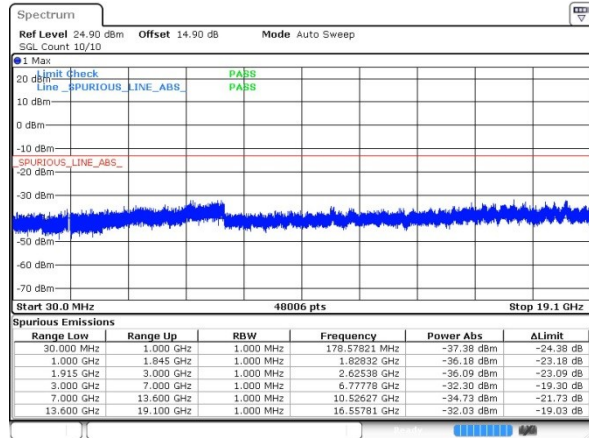
CDMA BC0 (1xRTT)

Lowest Channel

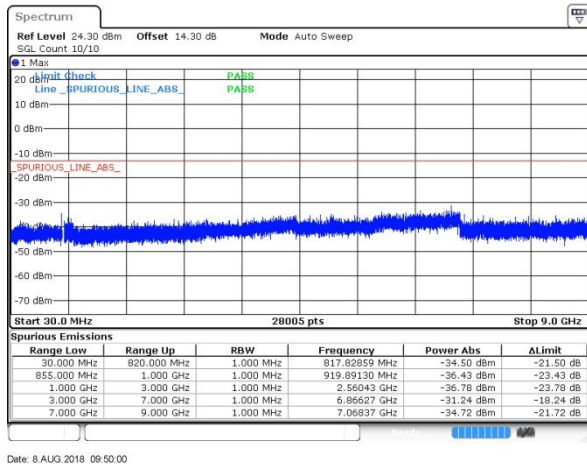


CDMA BC1 (1xRTT)

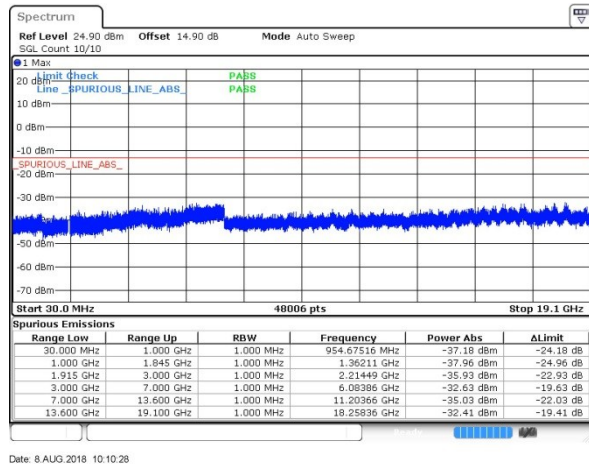
Lowest Channel



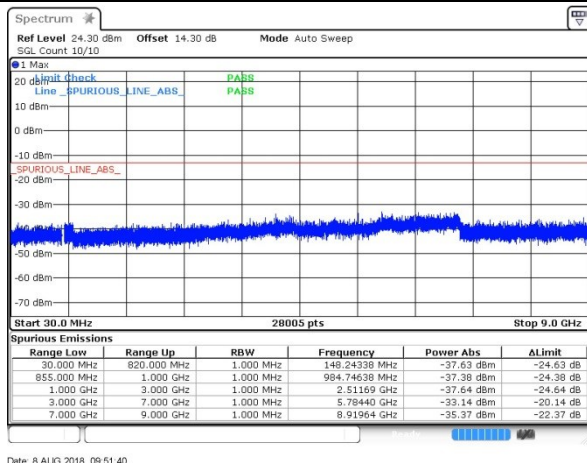
Middle Channel



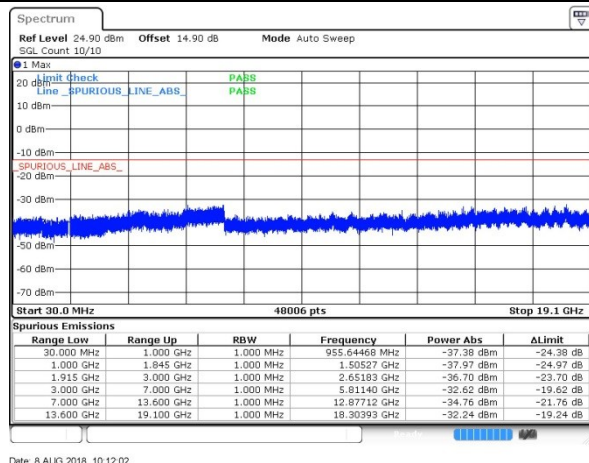
Middle Channel



Highest Channel



Highest Channel



**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	0.0311	0.0347	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0143	0.0215	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.4V



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	0.0000	0.0000	
20	Battery End Point	0.0053	0.0053	

Note:

1. Normal Voltage = 3.85V. ; 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 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	0.0000	
20	Battery End Point	0.0143	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.4V



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	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) =3.5V. ; 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	0.0012	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	0.0000	
20	Battery End Point	0.0081	

Note:

1. Normal Voltage = 3.85V. ; 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	CDMA BC0 (1xRTT)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0263	
30	Normal Voltage	0.0060	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0084	
0	Normal Voltage	0.0251	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0215	
-30	Normal Voltage	0.0287	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0227	

Note: Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6V. ; Maximum Voltage =4.4V



Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0027	PASS
40	Normal Voltage	0.0080	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0112	
-20	Normal Voltage	0.0027	
-30	Normal Voltage	0.0106	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0085	

Note:

1. Normal Voltage = 3.85V. ; 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 Conducted 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)
Middle	1672	-58.06	-13	-45.06	-59.43	2.28	5.80	H
	2510	-33.45	-13	-20.45	-35.36	2.84	6.90	H
	3345	-58.58	-13	-45.58	-60.64	3.29	7.50	H
	1672	-56.56	-13	-43.56	-57.93	2.28	5.80	V
	2510	-38.94	-13	-25.94	-40.85	2.84	6.90	V
	3345	-57.00	-13	-44.00	-59.06	3.29	7.50	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)
Middle	1672	-55.27	-13	-42.27	-56.64	2.28	5.80	H
	2510	-34.49	-13	-21.49	-36.40	2.84	6.90	H
	3345	-58.04	-13	-45.04	-60.10	3.29	7.50	H
	1672	-58.20	-13	-45.20	-59.57	2.28	5.80	V
	2510	-40.02	-13	-27.02	-41.93	2.84	6.90	V
	3345	-57.33	-13	-44.33	-59.39	3.29	7.50	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)
Middle	3759	-60.15	-13	-47.15	-63.65	3.60	7.10	H
	5640	-56.04	-13	-43.04	-62.02	4.42	10.40	H
	7521	-55.39	-13	-42.39	-62.20	5.13	11.94	H
	3759	-59.98	-13	-46.98	-63.48	3.60	7.10	V
	5640	-57.21	-13	-44.21	-63.19	4.42	10.40	V
	7521	-55.39	-13	-42.39	-62.20	5.13	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)
Middle	3759	-59.37	-13	-46.37	-62.87	3.60	7.10	H
	5640	-57.10	-13	-44.10	-63.08	4.42	10.40	H
	7521	-55.63	-13	-42.63	-62.44	5.13	11.94	H
	3759	-59.83	-13	-46.83	-63.33	3.60	7.10	V
	5640	-57.30	-13	-44.30	-63.28	4.42	10.40	V
	7521	-55.52	-13	-42.52	-62.33	5.13	11.94	V

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)
Middle	1672	-63.04	-13	-50.04	-64.41	2.28	5.80	H
	2510	-60.12	-13	-47.12	-62.03	2.84	6.90	H
	3345	-59.57	-13	-46.57	-61.63	3.29	7.50	H
	1672	-63.88	-13	-50.88	-65.25	2.28	5.80	V
	2510	-59.53	-13	-46.53	-61.44	2.84	6.90	V
	3345	-59.12	-13	-46.12	-61.18	3.29	7.50	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)
Middle	3759	-50.66	-13	-37.66	-54.16	3.60	7.10	H
	5637	-41.51	-13	-28.51	-47.49	4.42	10.40	H
	7518	-53.22	-13	-40.22	-60.03	5.13	11.94	H
	3759	-57.29	-13	-44.29	-60.79	3.60	7.10	V
	5637	-48.79	-13	-35.79	-54.77	4.42	10.40	V
	7518	-55.13	-13	-42.13	-61.94	5.13	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)
Middle	3465	-51.55	-13	-38.55	-55.77	3.37	7.59	H
	5198	-48.70	-13	-35.70	-53.89	4.20	9.39	H
	6930	-39.08	-13	-26.08	-45.83	4.92	11.67	H
	3465	-53.71	-13	-40.71	-57.93	3.37	7.59	V
	5198	-52.60	-13	-39.60	-57.79	4.20	9.39	V
	6930	-46.96	-13	-33.96	-53.71	4.92	11.67	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1674	-62.94	-13	-49.94	-64.15	2.32	5.68	H
	2510	-65.38	-13	-52.38	-66.01	3.02	5.80	H
	3345	-64.33	-13	-51.33	-66.79	3.27	7.88	H
	1674	-62.58	-13	-49.58	-63.79	2.32	5.68	V
	2510	-66.04	-13	-53.04	-66.67	3.02	5.80	V
	3345	-64.45	-13	-51.45	-66.91	3.27	7.88	V

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

CDMA BC1(1xRTT)								
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)
Middle	3759	-55.46	-13	-42.46	-60.33	3.55	8.42	H
	5640	-42.07	-13	-29.07	-48.41	4.34	10.68	H
	7521	-37.15	-13	-24.15	-43.95	5.14	11.94	H
	9396	-50.08	-13	-37.08	-57.09	5.69	12.70	H
	3759	-52.62	-13	-39.62	-57.49	3.55	8.42	V
	5640	-43.69	-13	-30.69	-50.03	4.34	10.68	V
	7521	-35.48	-13	-22.48	-42.28	5.14	11.94	V
	9396	-49.63	-13	-36.63	-56.64	5.69	12.70	V

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