



WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 8 AUG 2020 17:23:48



Date: 8 AUG 2020 17:26:40

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

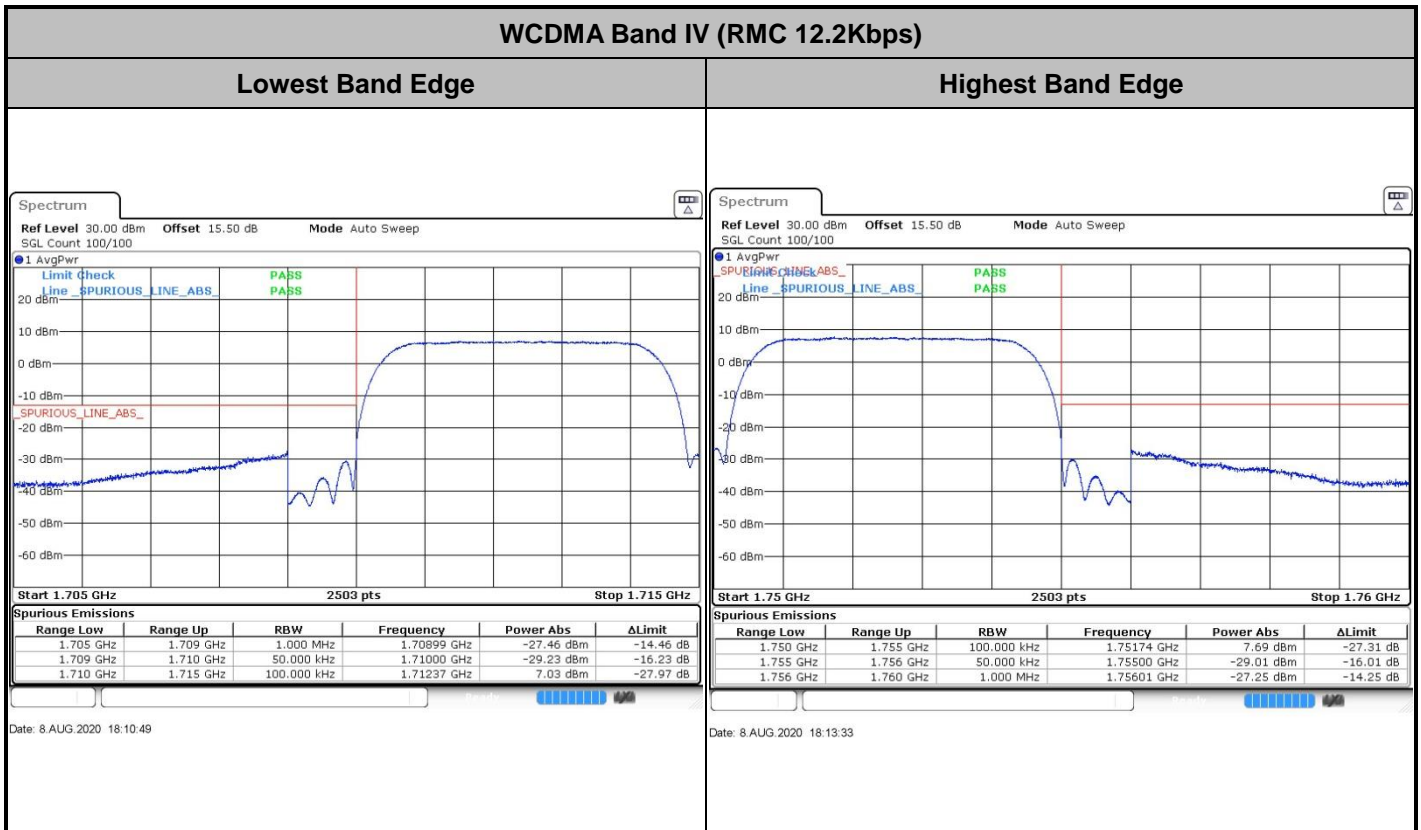
Highest Band Edge



Date: 8 AUG 2020 17:43:34

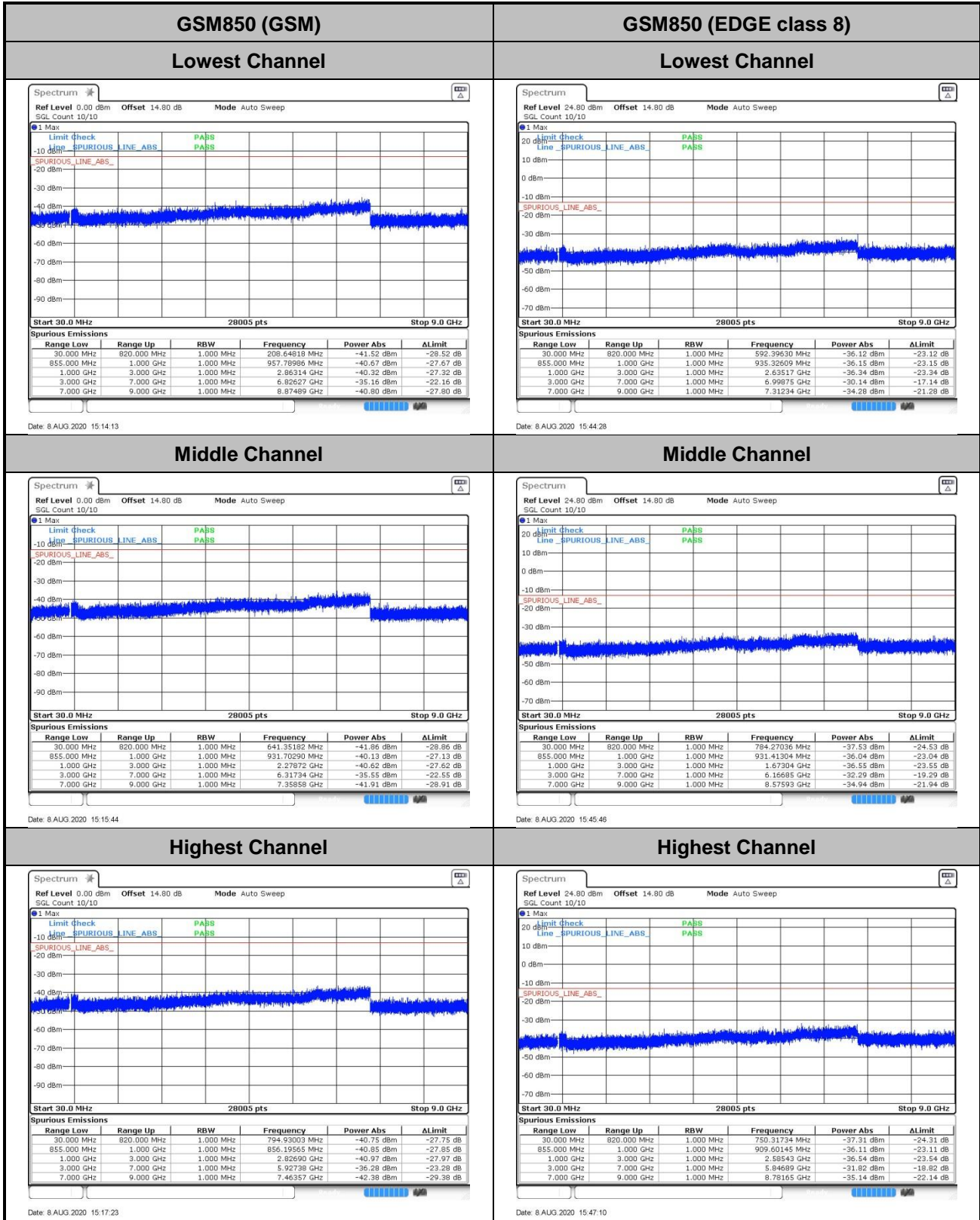


Date: 8 AUG 2020 17:46:24





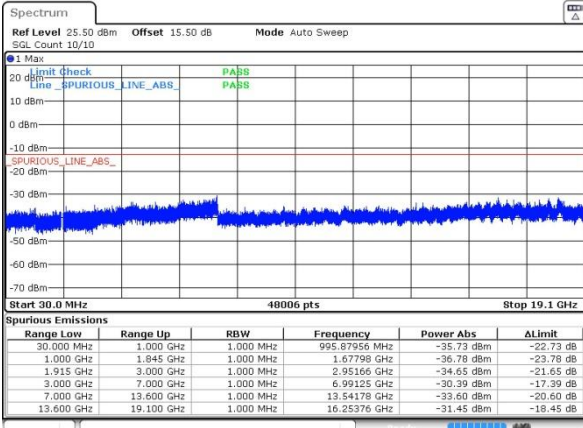
# Conducted Spurious Emission





GSM1900 (GSM)

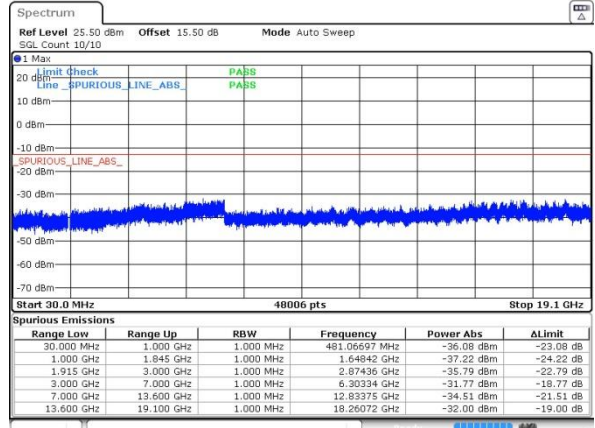
Lowest Channel



Date: 8 AUG 2020 16:13:07

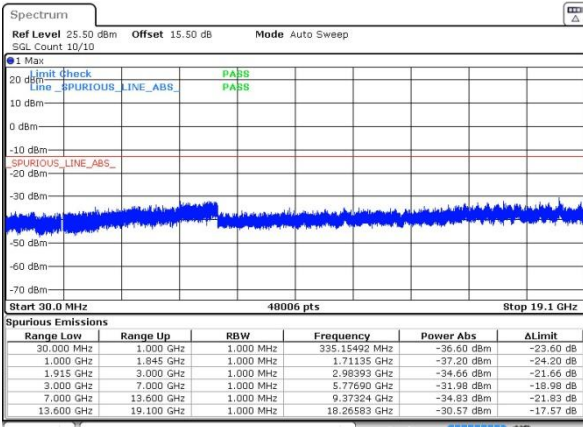
GSM1900 (EDGE class 8)

Lowest Channel



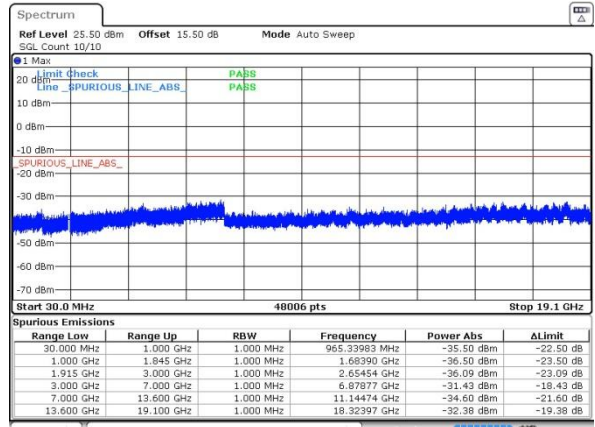
Date: 8 AUG 2020 16:41:42

Middle Channel



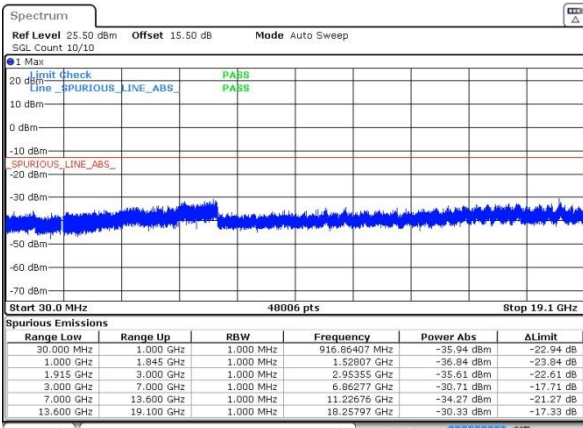
Date: 8 AUG 2020 16:14:27

Middle Channel



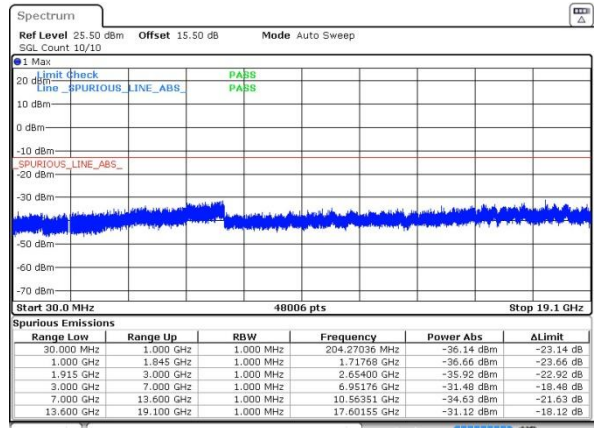
Date: 8 AUG 2020 16:42:58

Highest Channel



Date: 8 AUG 2020 16:17:25

Highest Channel

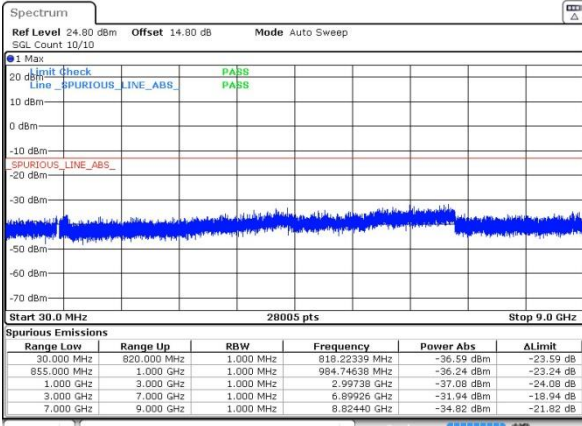


Date: 8 AUG 2020 16:44:19



WCDMA Band V (RMC 12.2Kbps)

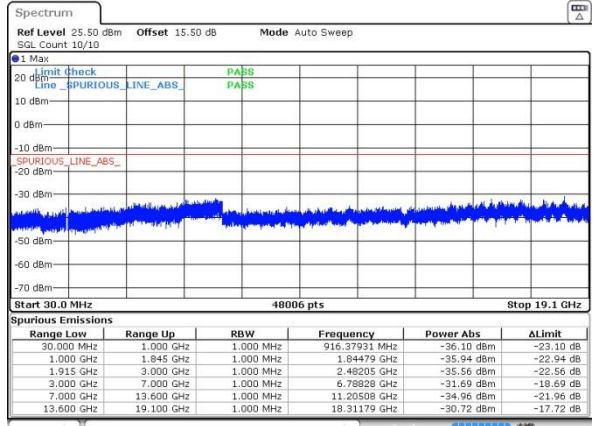
Lowest Channel



Date: 8 AUG 2020 17:28:10

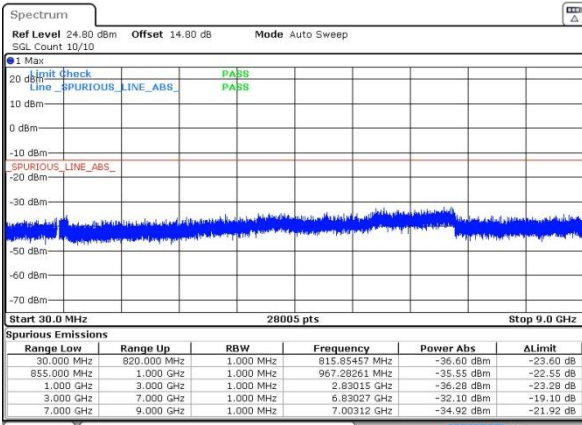
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



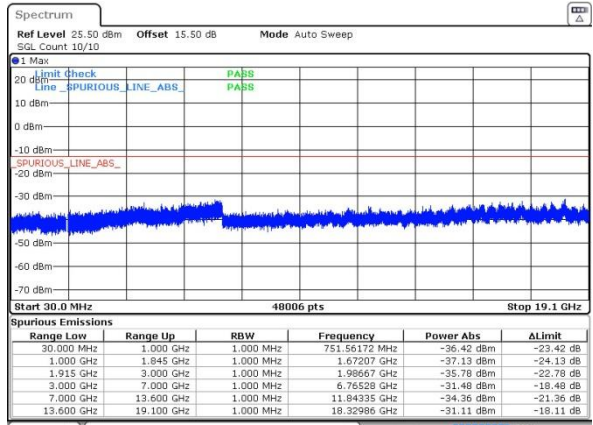
Date: 8 AUG 2020 17:48:07

Middle Channel



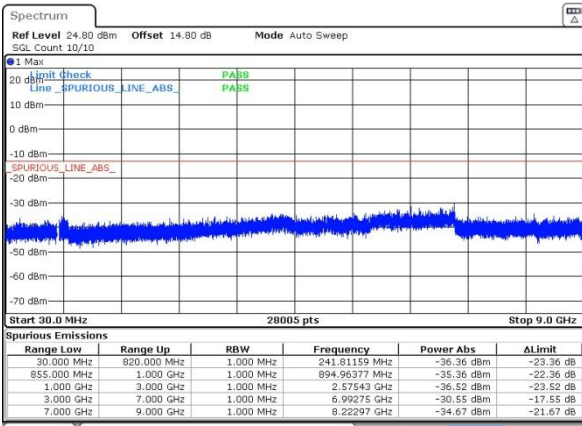
Date: 8 AUG 2020 17:29:35

Middle Channel



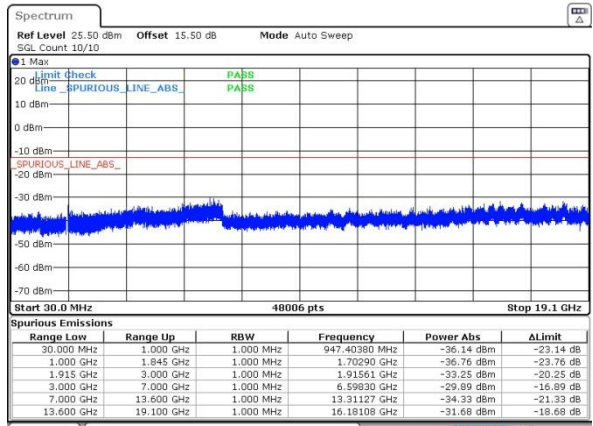
Date: 8 AUG 2020 17:49:28

Highest Channel



Date: 8 AUG 2020 17:31:02

Highest Channel

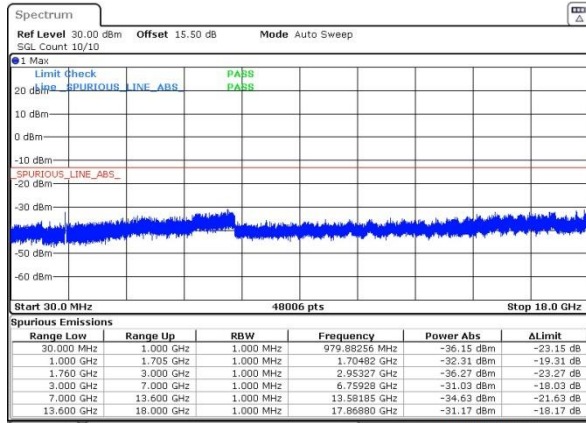


Date: 8 AUG 2020 17:57:07



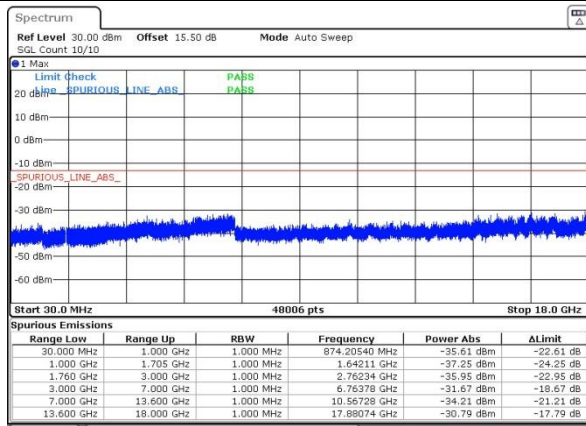
### WCDMA Band IV (RMC 12.2Kbps)

#### Lowest Channel



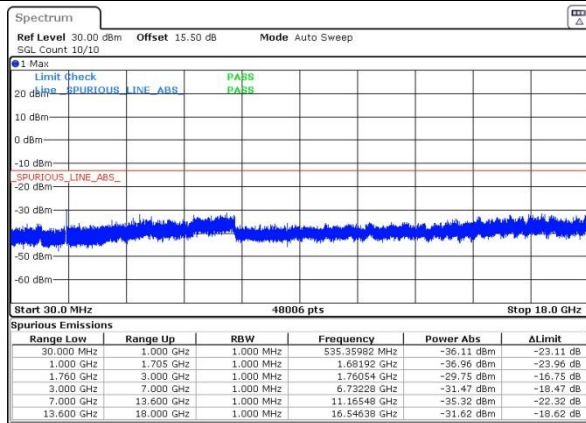
Date: 8 AUG 2020 18:14:57

#### Middle Channel



Date: 8 AUG 2020 18:16:16

#### Highest Channel



Date: 8 AUG 2020 18:17:57

**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	0.0118	0.0227	PASS
40	Normal Voltage	0.0032	0.0203	
30	Normal Voltage	0.0132	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0132	0.0155	
0	Normal Voltage	0.0072	0.0167	
-10	Normal Voltage	0.0203	0.0132	
-20	Normal Voltage	0.0120	0.0060	
-30	Normal Voltage	0.0143	0.0096	
20	Maximum Voltage	0.0060	0.0132	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0072	0.0143	

**Note:** Normal Voltage = 4.0V ; Battery End Point (BEP) =3.8V. ; 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	0.0055	0.0115	PASS
40	Normal Voltage	0.0018	0.0133	
30	Normal Voltage	0.0116	0.0028	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0095	0.0081	
0	Normal Voltage	0.0074	0.0144	
-10	Normal Voltage	0.0063	0.0151	
-20	Normal Voltage	0.0052	0.0137	
-30	Normal Voltage	0.0048	0.0112	
20	Maximum Voltage	0.0016	0.0016	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0091	0.0048	

**Note:**

- 1. Normal Voltage = 4.0V ; Battery End Point (BEP) =3.8V. ; 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	0.0048	PASS
40	Normal Voltage	0.0135	
30	Normal Voltage	0.0044	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0052	
0	Normal Voltage	0.0102	
-10	Normal Voltage	0.0062	
-20	Normal Voltage	0.0122	
-30	Normal Voltage	0.0142	
20	Maximum Voltage	0.0116	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0104	

**Note:** Normal Voltage = 4.0V ; Battery End Point (BEP) =3.8V. ; 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	0.0085	PASS
40	Normal Voltage	0.0078	
30	Normal Voltage	0.0122	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0054	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0098	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0065	
20	Maximum Voltage	0.0077	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0092	

Note:

1. Normal Voltage = 4.0V ; Battery End Point (BEP) =3.8V. ; 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	0.0121	PASS
40	Normal Voltage	0.0042	
30	Normal Voltage	0.0133	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0158	
-30	Normal Voltage	0.0039	
20	Maximum Voltage	0.0151	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

**Note:**

1. Normal Voltage = 4.0V ; Battery End Point (BEP) =3.8V. ; 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)
Middle	1672	-39.02	-13	-26.02	-45.99	1.58	10.70	H
	2510	-58.48	-13	-45.48	-66.73	2.102	12.50	H
	3348	-64.18	-13	-51.18	-73.07	2.856	13.90	H
	1672	-29.99	-13	-16.99	-36.96	1.58	10.70	V
	2510	-57.80	-13	-44.80	-66.05	2.10	12.50	V
	3348	-64.24	-13	-51.24	-73.13	2.86	13.90	V

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

GSM850 (EDGE 1 Tx slots)								
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	-49.58	-13	-36.58	-56.55	1.58	10.70	H
	2510	-57.24	-13	-44.24	-65.49	2.102	12.50	H
	3348	-64.07	-13	-51.07	-72.96	2.856	13.90	H
	1672	-52.49	-13	-39.49	-59.46	1.58	10.70	V
	2510	-60.68	-13	-47.68	-68.93	2.10	12.50	V
	3348	-64.17	-13	-51.17	-73.06	2.86	13.90	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	-55.78	-13	-42.78	-68.04	2.641	14.90	H
	5640	-56.25	-13	-43.25	-68.11	2.94	14.80	H
	7524	-51.33	-13	-38.33	-61.10	3.39	13.16	H
	3759	-58.70	-13	-45.70	-70.96	2.64	14.90	V
	5640	-56.34	-13	-43.34	-68.20	2.94	14.80	V
	7524	-51.50	-13	-38.50	-61.27	3.39	13.16	V

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



GSM1900 (EDGE 1 Tx slots)								
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	-61.11	-13	-48.11	-73.37	2.641	14.90	H
	5640	-57.32	-13	-44.32	-69.18	2.94	14.80	H
	7524	-51.97	-13	-38.97	-61.74	3.39	13.16	H
	3759	-61.24	-13	-48.24	-73.50	2.64	14.90	V
	5640	-57.10	-13	-44.10	-68.96	2.94	14.80	V
	7524	-51.61	-13	-38.61	-61.38	3.39	13.16	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)
Middle	1672	-67.16	-13	-54.16	-74.13	1.58	10.70	H
	2510	-66.26	-13	-53.26	-74.51	2.102	12.50	H
	3348	-60.62	-13	-47.62	-69.51	2.856	13.90	H
	1672	-67.22	-13	-54.22	-74.19	1.58	10.70	V
	2510	-66.04	-13	-53.04	-74.29	2.10	12.50	V
	3348	-62.97	-13	-49.97	-71.86	2.86	13.90	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	-60.70	-13	-47.70	-72.96	2.64	14.90	H
	5640	-57.21	-13	-44.21	-69.07	2.94	14.80	H
	7524	-51.77	-13	-38.77	-61.54	3.39	13.16	H
	3759	-61.13	-13	-48.13	-73.39	2.64	14.90	V
	5640	-57.10	-13	-44.10	-68.96	2.94	14.80	V
	7524	-51.68	-13	-38.68	-61.45	3.39	13.16	V

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



WCDMA Band IV(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	3465	-61.23	-13	-48.23	-71.97	2.604	13.34	H
	5199	-57.69	-13	-44.69	-68.20	3.011	13.52	H
	6936	-54.33	-13	-41.33	-64.53	3.271	13.47	H
	3465	-61.76	-13	-48.76	-72.50	2.604	13.34	V
	5199	-57.71	-13	-44.71	-68.22	3.011	13.52	V
	6936	-53.99	-13	-40.99	-64.19	3.271	13.47	V

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