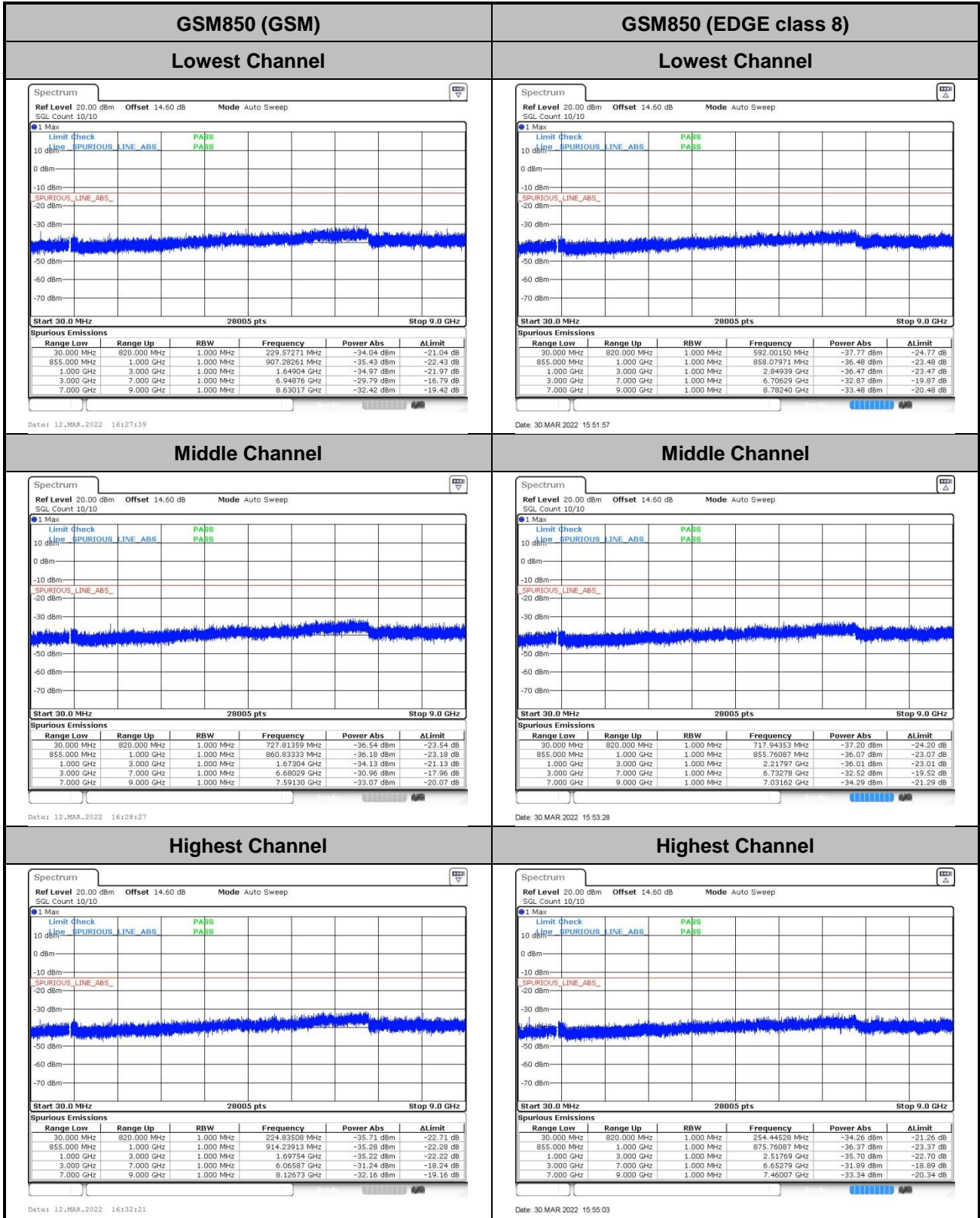




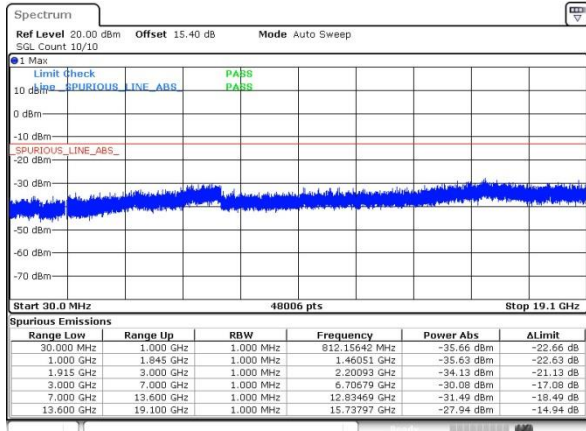
Conducted Spurious Emission





GSM1900 (GSM)

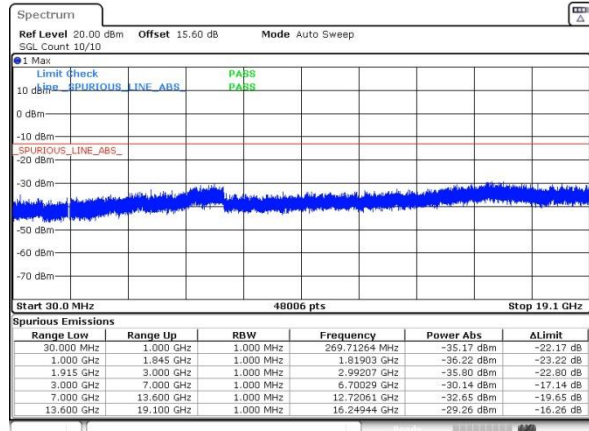
Lowest Channel



Date: 12.MAR.2022 16:53:37

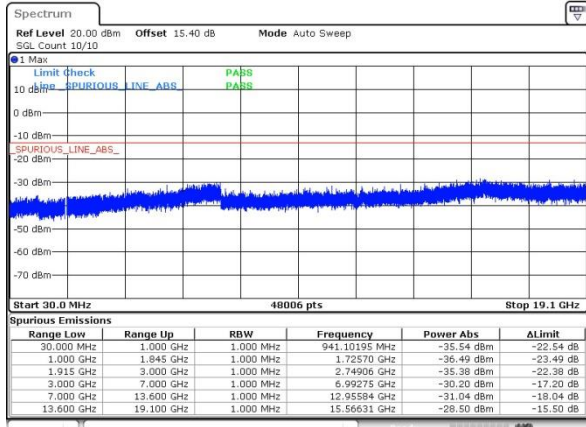
GSM1900 (EDGE class 8)

Lowest Channel



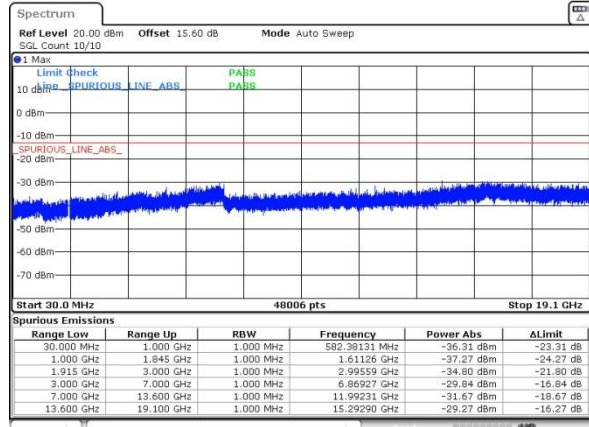
Date: 30.MAR.2022 15:18:30

Middle Channel



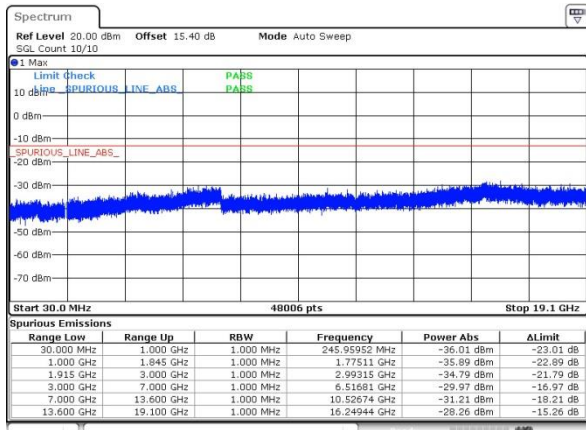
Date: 12.MAR.2022 16:55:19

Middle Channel



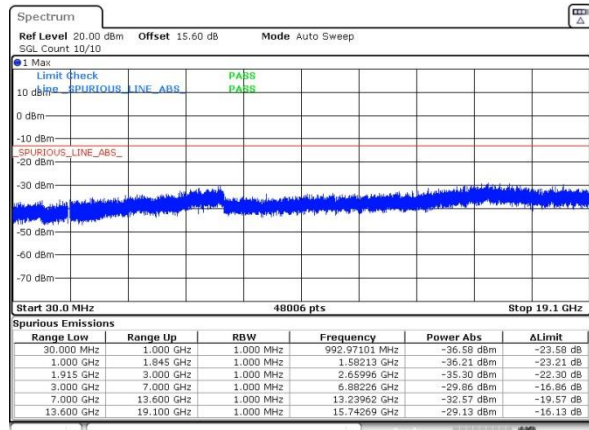
Date: 30.MAR.2022 15:20:06

Highest Channel



Date: 12.MAR.2022 16:57:43

Highest Channel



Date: 30.MAR.2022 15:21:42



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	0.0108	0.0224	PASS
40	Normal Voltage	0.0032	0.0178	
30	Normal Voltage	0.0130	0.0087	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0145	0.0155	
0	Normal Voltage	0.0078	0.0169	
-10	Normal Voltage	0.0175	0.0234	
-20	Normal Voltage	0.0159	0.0065	
-30	Normal Voltage	0.0143	0.0109	
20	Maximum Voltage	0.0096	0.0132	
20	Normal Voltage	0.0120	0.0203	
20	Battery End Point	0.0191	0.0036	



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0058	0.0181	PASS
40	Normal Voltage	0.0015	0.0131	
30	Normal Voltage	0.0119	0.0023	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0145	0.0112	
0	Normal Voltage	0.0136	0.0135	
-10	Normal Voltage	0.0089	0.0174	
-20	Normal Voltage	0.0021	0.0127	
-30	Normal Voltage	0.0118	0.0119	
20	Maximum Voltage	0.0052	0.0018	
20	Normal Voltage	0.0011	0.0134	
20	Battery End Point	0.0124	0.0027	

Note:

1. Normal Voltage = 3.86V ; 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.



A2. WCDMA

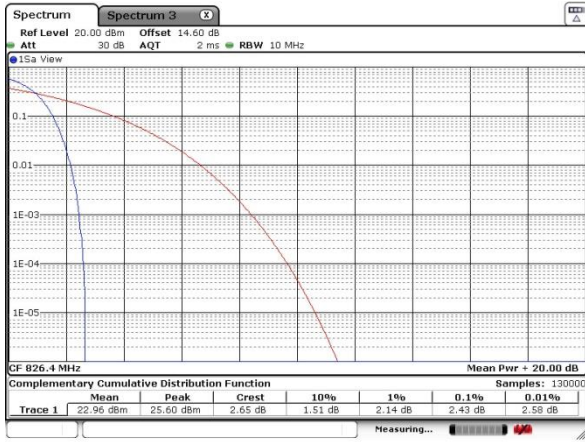
Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.43	2.72	PASS
Middle CH	2.72	2.84	
Highest CH	2.84	2.75	



WCDMA Band V (RMC 12.2Kbps)

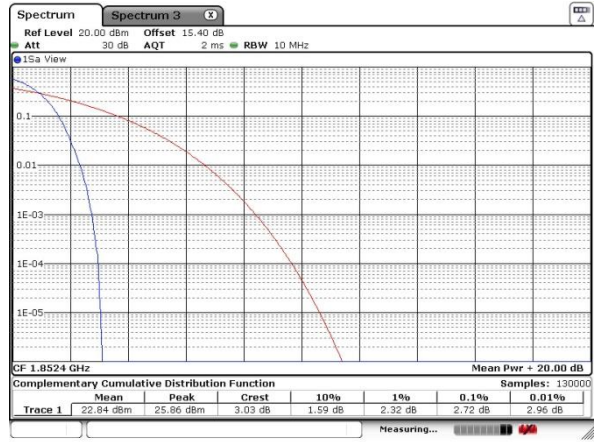
Lowest Channel



Date: 13_MAR_2022 21:39:52

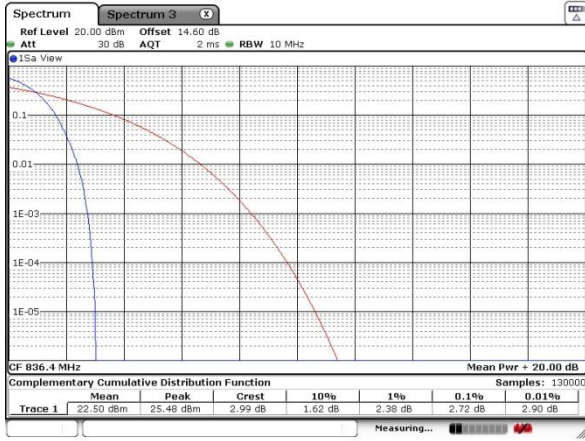
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



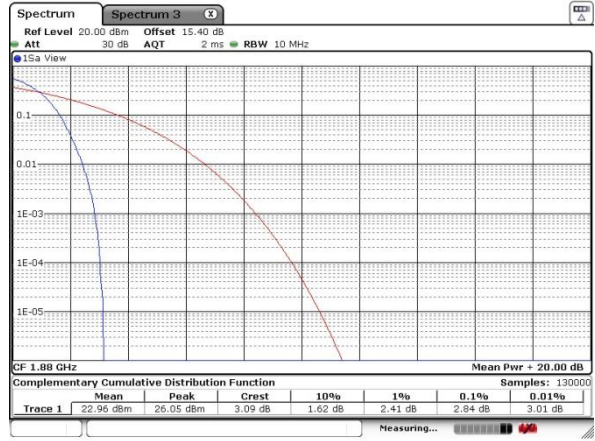
Date: 13_MAR_2022 22:05:14

Middle Channel



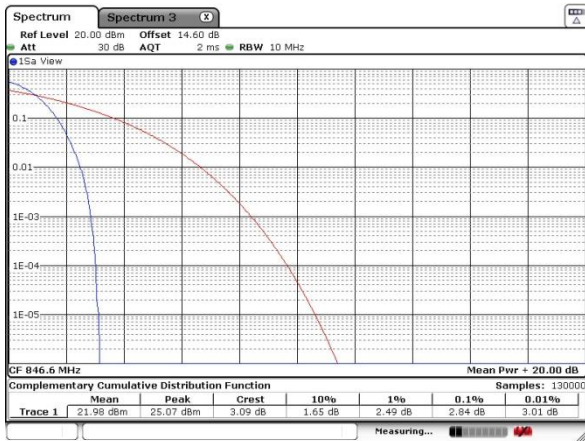
Date: 13_MAR_2022 21:40:14

Middle Channel



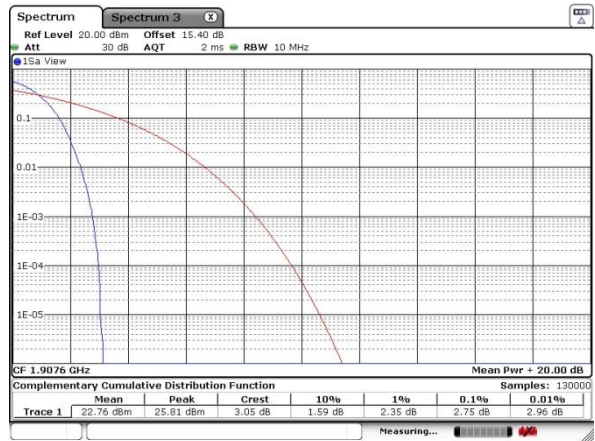
Date: 13_MAR_2022 22:05:35

Highest Channel



Date: 13_MAR_2022 21:40:37

Highest Channel



Date: 13_MAR_2022 22:06:04



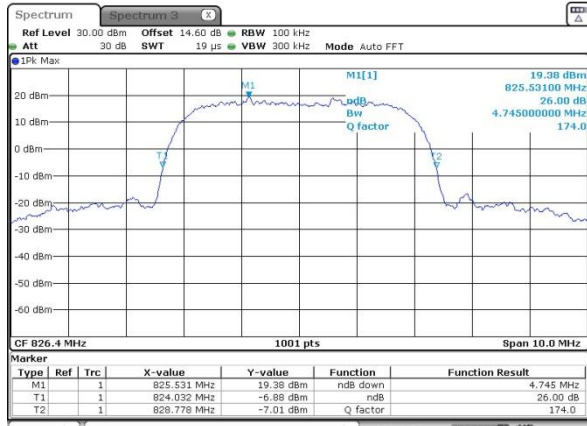
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.75	4.75
Middle CH	4.73	4.75
Highest CH	4.71	4.74



WCDMA Band V (RMC 12.2Kbps)

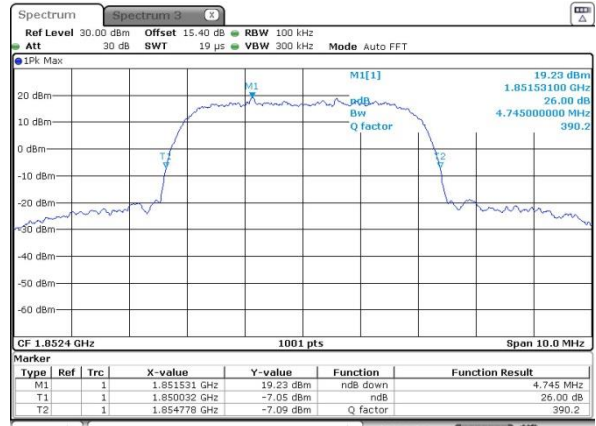
Lowest Channel



Date: 13_MAR_2022 21:27:55

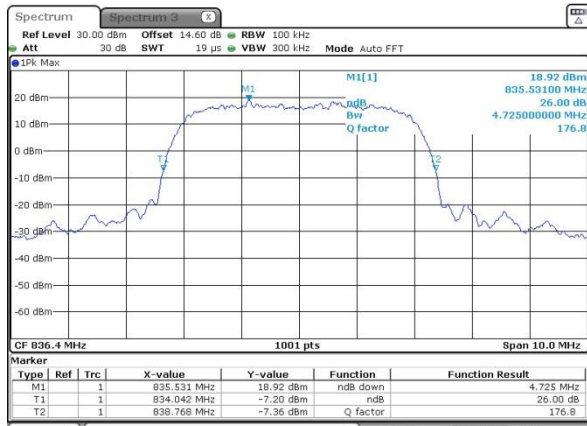
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



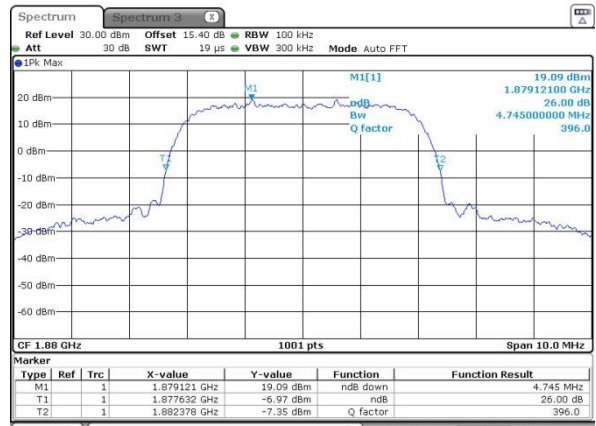
Date: 13_MAR_2022 21:41:43

Middle Channel



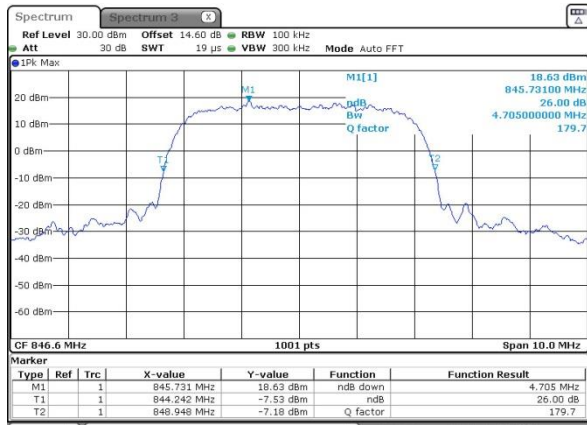
Date: 13_MAR_2022 21:28:30

Middle Channel



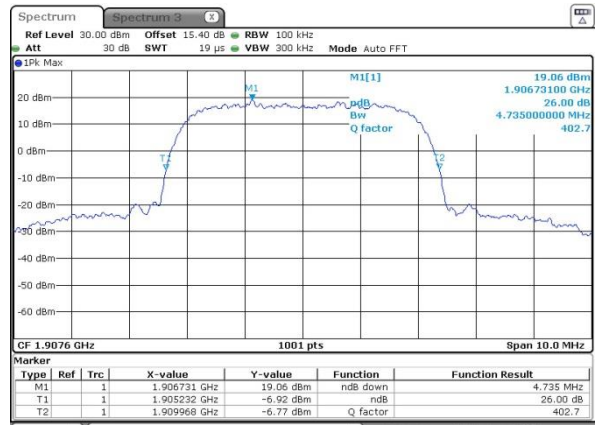
Date: 13_MAR_2022 21:42:15

Highest Channel



Date: 13_MAR_2022 21:28:58

Highest Channel



Date: 13_MAR_2022 21:42:54



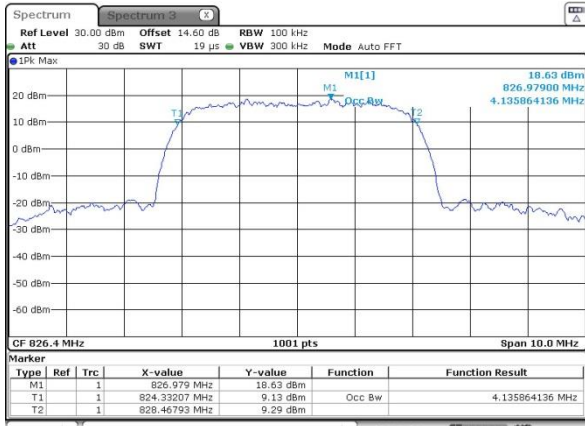
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II
Mod.	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.15
Middle CH	4.12	4.14
Highest CH	4.12	4.15



WCDMA Band V (RMC 12.2Kbps)

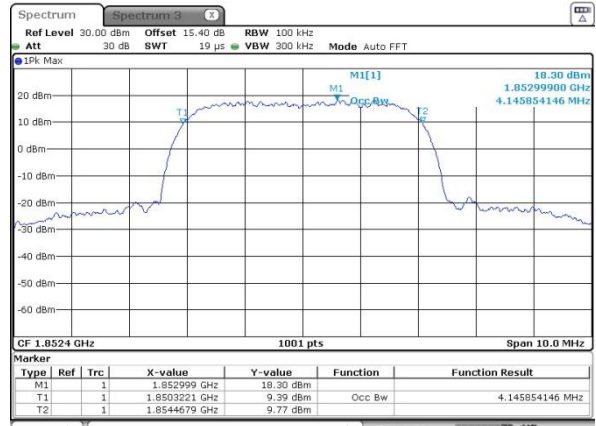
Lowest Channel



Date: 13_MAR_2022 21:32:07

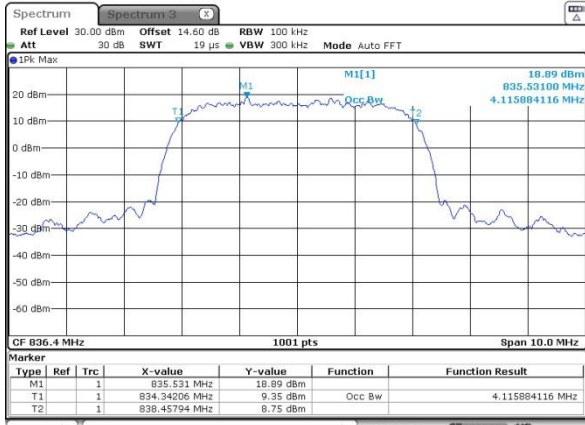
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



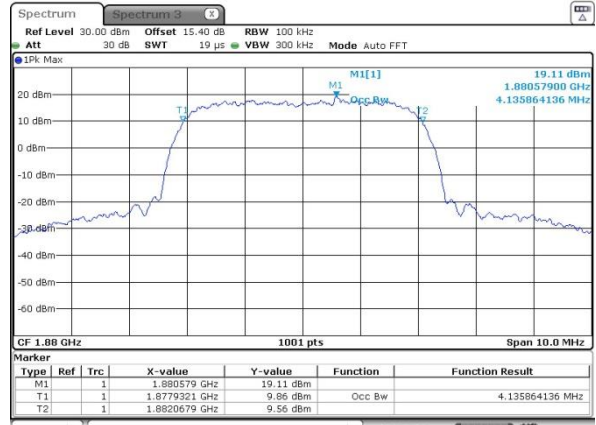
Date: 13_MAR_2022 21:43:45

Middle Channel



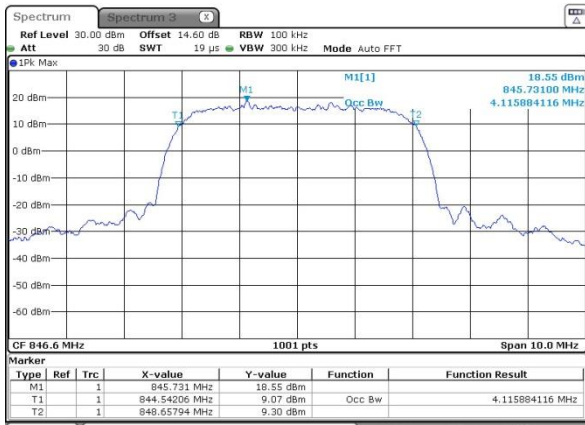
Date: 13_MAR_2022 21:32:37

Middle Channel



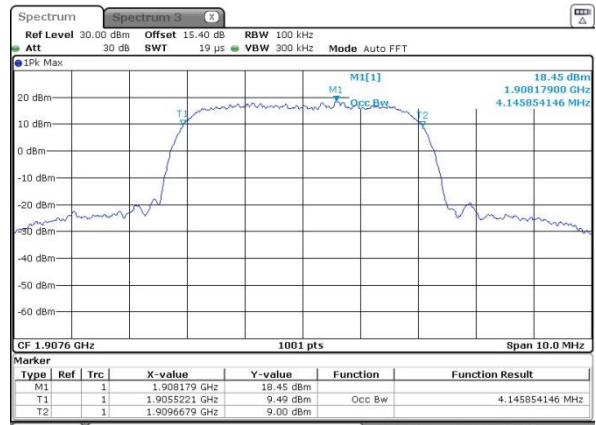
Date: 13_MAR_2022 21:45:01

Highest Channel



Date: 13_MAR_2022 21:33:06

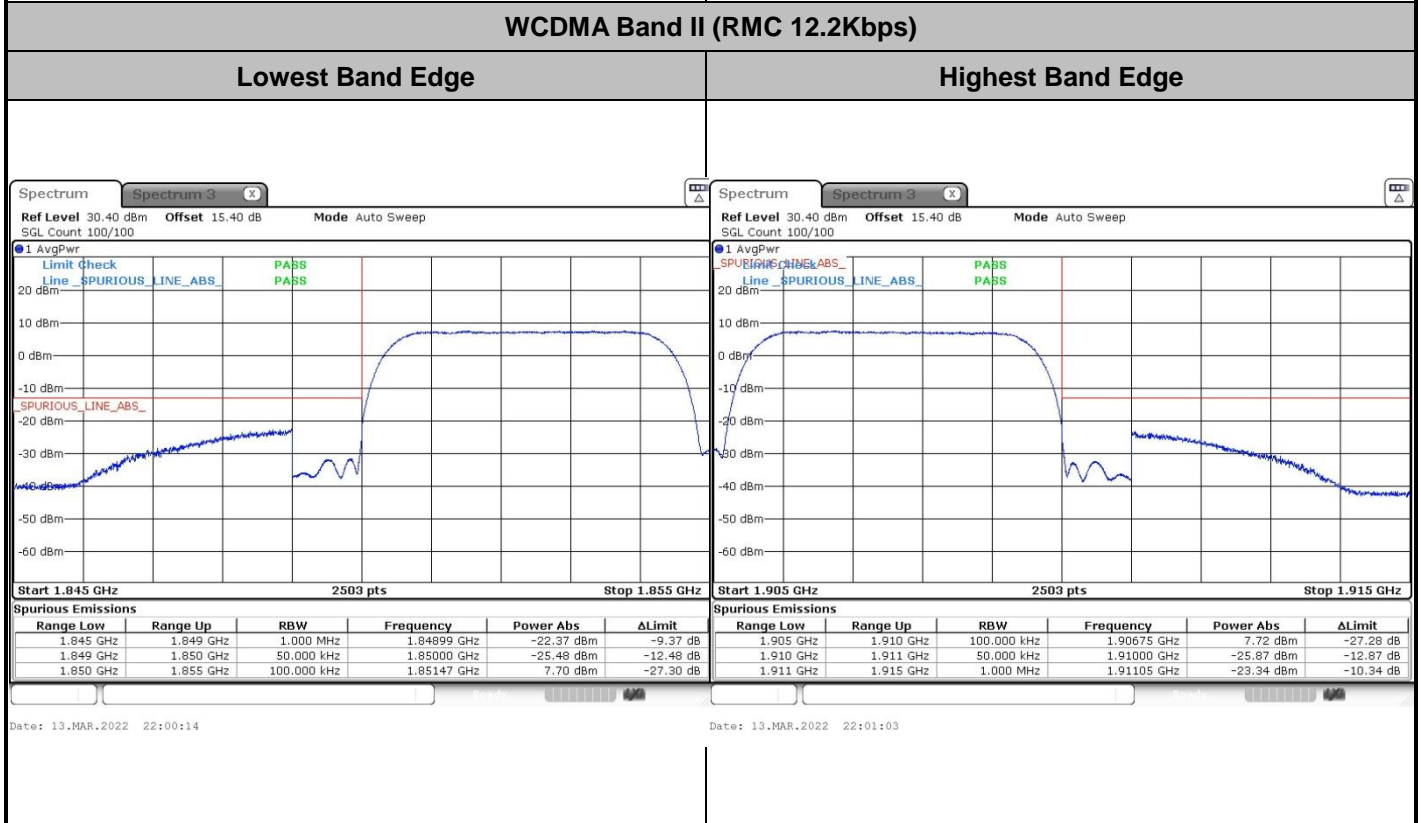
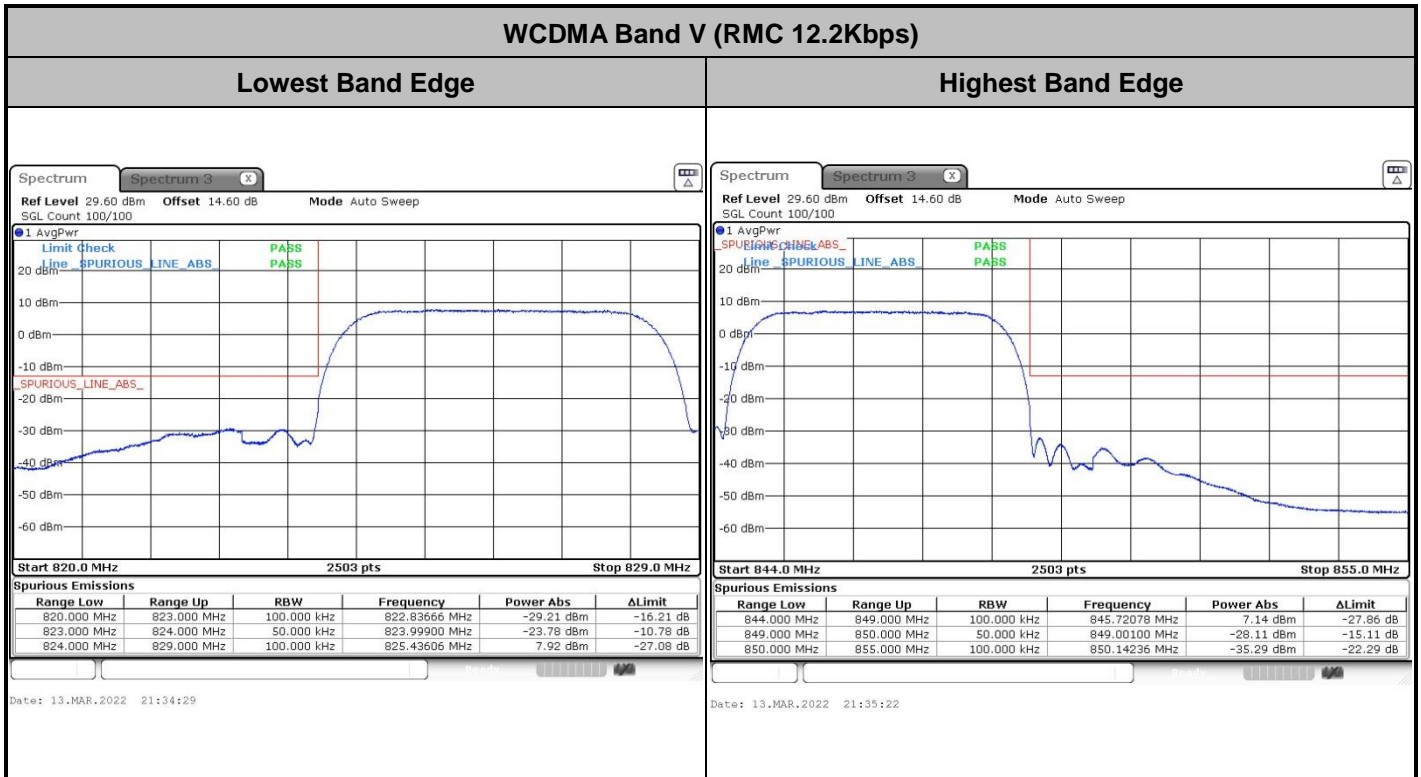
Highest Channel



Date: 13_MAR_2022 21:45:54

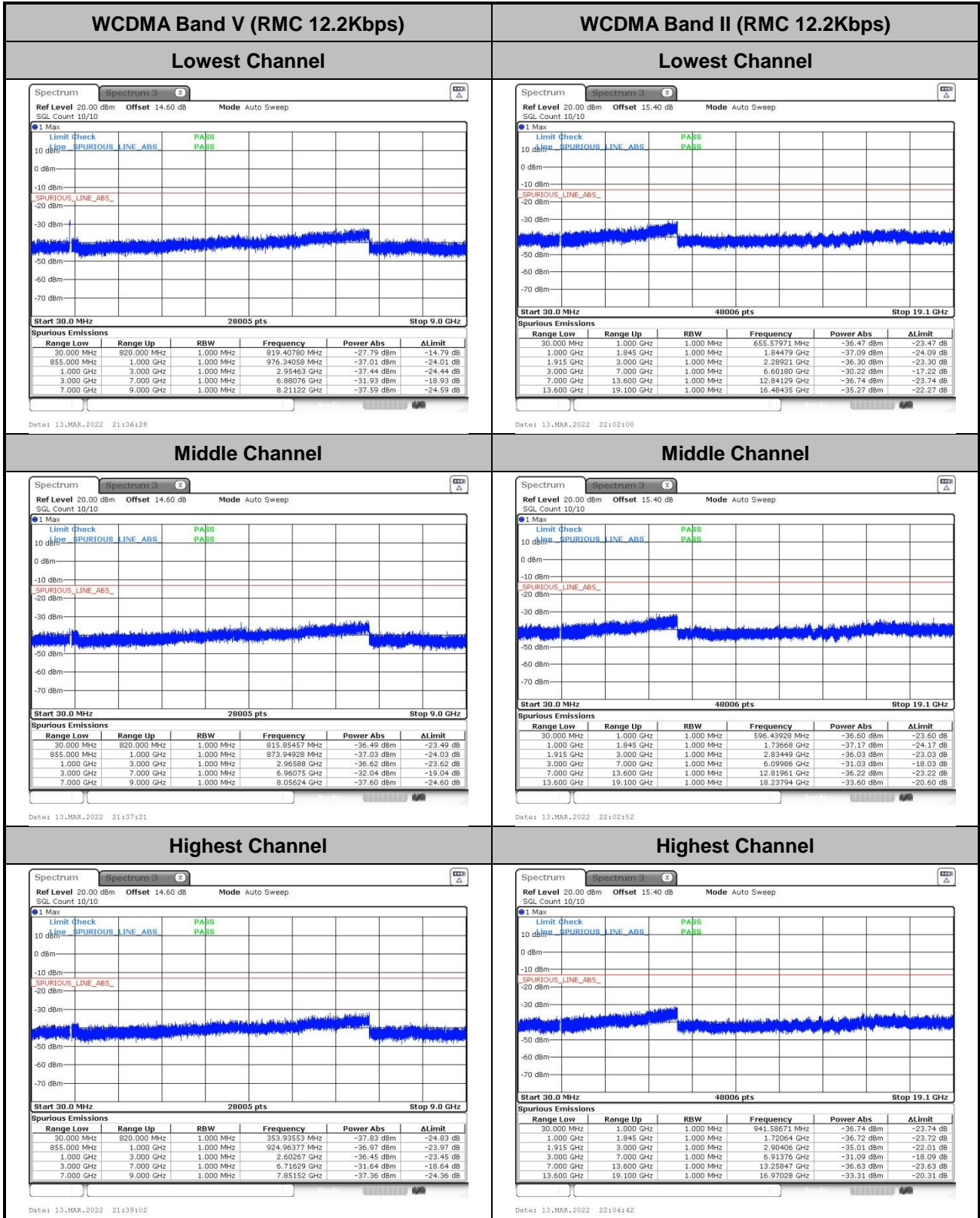


Conducted Band Edge





Conducted Spurious Emission





Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0088	PASS
40	Normal Voltage	0.0255	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0278	
0	Normal Voltage	0.0243	
-10	Normal Voltage	0.0068	
-20	Normal Voltage	0.0273	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0234	
20	Battery End Point	0.0263	



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0018	PASS
40	Normal Voltage	0.0122	
30	Normal Voltage	0.0118	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0174	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0143	
-20	Normal Voltage	0.0159	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0096	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.86V ; 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

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

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	-60.29	-13	-47.29	-67.26	1.58	10.70	H
	2512	-52.20	-13	-39.20	-60.45	2.102	12.50	H
	3344	-59.76	-13	-46.76	-68.65	2.856	13.90	H
	1672	-58.13	-13	-45.13	-65.10	1.58	10.70	V
	2512	-52.10	-13	-39.10	-60.35	2.10	12.50	V
	3344	-59.76	-13	-46.76	-68.65	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	-60.22	-13	-47.22	-67.19	1.58	10.70	H
	2512	-38.01	-13	-25.01	-46.26	2.102	12.50	H
	3344	-59.73	-13	-46.73	-68.62	2.856	13.90	H
	1672	-57.65	-13	-44.65	-64.62	1.58	10.70	V
	2512	-43.63	-13	-30.63	-51.88	2.10	12.50	V
	3344	-59.56	-13	-46.56	-68.45	2.86	13.90	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	-60.92	-13	-47.92	-67.89	1.58	10.70	H
	2512	-39.57	-13	-26.57	-47.82	2.102	12.50	H
	3344	-62.54	-13	-49.54	-71.43	2.856	13.90	H
	1672	-58.65	-13	-45.65	-65.62	1.58	10.70	V
	2512	-42.63	-13	-29.63	-50.88	2.10	12.50	V
	3344	-61.56	-13	-48.56	-70.45	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	3765	-51.43	-13	-38.43	-63.69	2.64	14.90	H
	5640	-54.11	-13	-41.11	-65.97	2.94	14.80	H
	7515	-52.37	-13	-39.37	-62.14	3.39	13.16	H
	3765	-50.46	-13	-37.46	-62.72	2.64	14.90	V
	5640	-54.13	-13	-41.13	-65.99	2.94	14.80	V
	7515	-52.78	-13	-39.78	-62.55	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	3765	-50.42	-13	-37.42	-62.68	2.64	14.90	H
	5640	-54.12	-13	-41.12	-65.98	2.94	14.80	H
	7515	-52.57	-13	-39.57	-62.34	3.39	13.16	H
	3765	-48.92	-13	-35.92	-61.18	2.64	14.90	V
	5640	-54.93	-13	-41.93	-66.79	2.94	14.80	V
	7515	-52.77	-13	-39.77	-62.54	3.39	13.16	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	3765	-56.31	-13	-43.31	-68.57	2.64	14.90	H
	5640	-54.69	-13	-41.69	-66.55	2.94	14.80	H
	7515	-51.94	-13	-38.94	-61.71	3.39	13.16	H
	3765	-55.37	-13	-42.37	-67.63	2.64	14.90	V
	5640	-55.08	-13	-42.08	-66.94	2.94	14.80	V
	7515	-52.52	-13	-39.52	-62.29	3.39	13.16	V

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