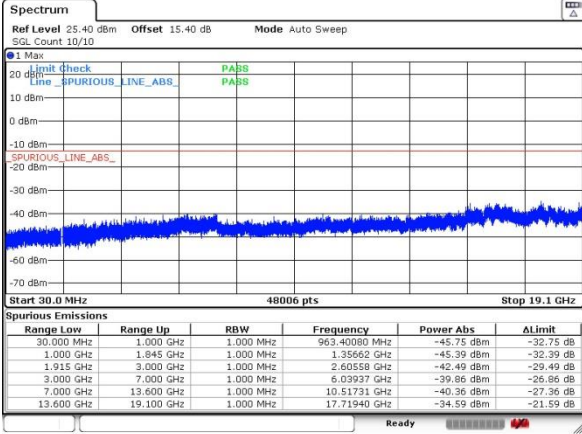




GSM1900 (GSM)

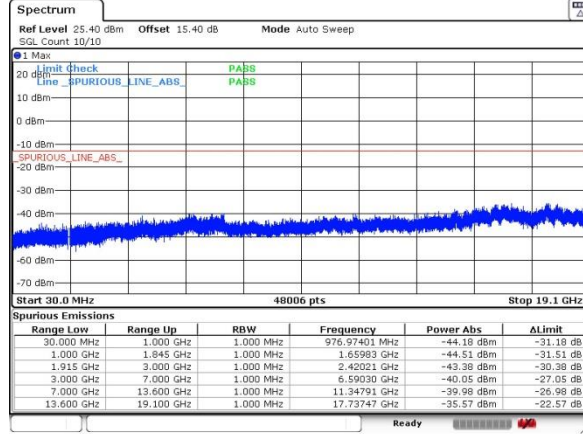
Lowest Channel



Date: 27.APR.2021 09:43:13

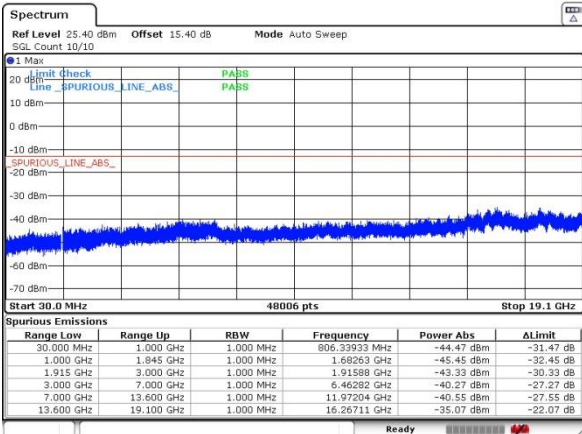
GSM1900 (EDGE class 8)

Lowest Channel



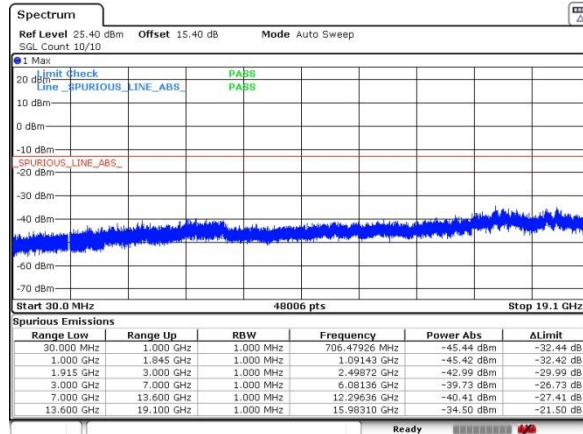
Date: 27.APR.2021 09:43:49

Middle Channel



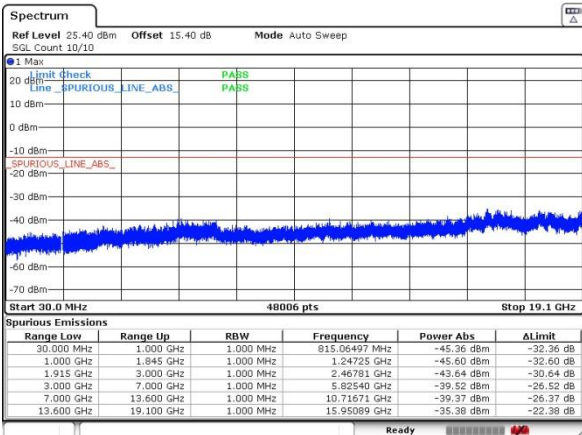
Date: 27.APR.2021 09:43:25

Middle Channel



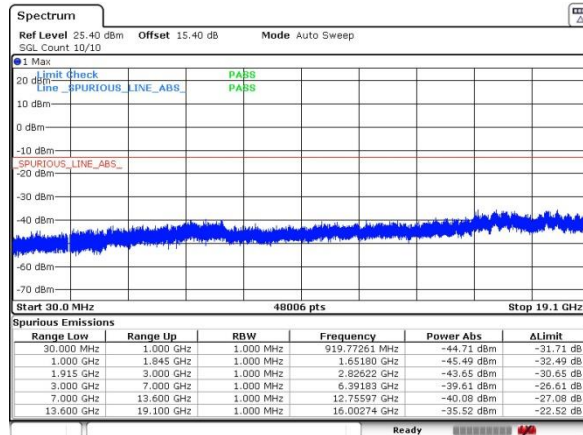
Date: 27.APR.2021 09:43:01

Highest Channel



Date: 27.APR.2021 09:43:36

Highest Channel



Date: 27.APR.2021 09:43:13



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	0.0019	0.0111	PASS
40	Normal Voltage	0.0023	0.0154	
30	Normal Voltage	0.0122	0.0069	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0115	0.0137	
0	Normal Voltage	0.0065	0.0139	
-10	Normal Voltage	0.0137	0.0169	
-20	Normal Voltage	0.0138	0.0035	
-30	Normal Voltage	0.0120	0.0135	
20	Maximum Voltage	0.0083	0.0126	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0181	0.0222	

Note: Normal Voltage = 3.87V. ; Battery End Point (BEP) =3.65V. ; Maximum Voltage =4.45 V



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0049	0.0158	PASS
40	Normal Voltage	0.0026	0.0136	
30	Normal Voltage	0.0118	0.0034	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0136	0.0106	
0	Normal Voltage	0.0134	0.0126	
-10	Normal Voltage	0.0026	0.0136	
-20	Normal Voltage	0.0029	0.0154	
-30	Normal Voltage	0.0106	0.0126	
20	Maximum Voltage	0.0051	0.0017	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0122	0.0036	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) =3.65V. ; Maximum Voltage =4.45 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.



A2. WCDMA

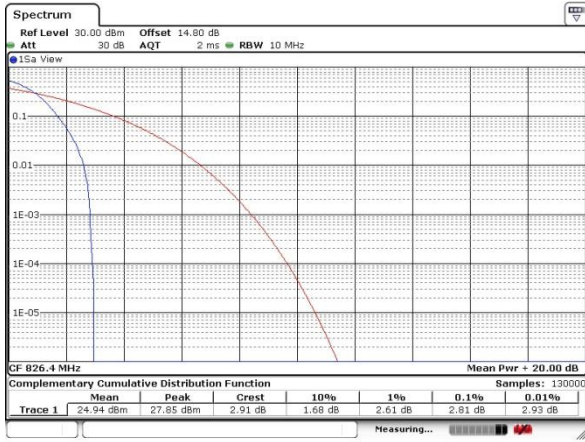
Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.81	2.99	2.84	PASS
Middle CH	2.78	2.87	2.87	
Highest CH	2.87	2.67	2.90	



WCDMA Band V (RMC 12.2Kbps)

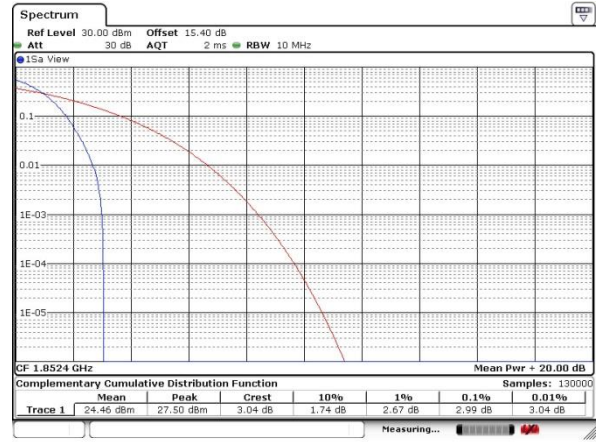
Lowest Channel



Date: 27_APR.2021 08:46:37

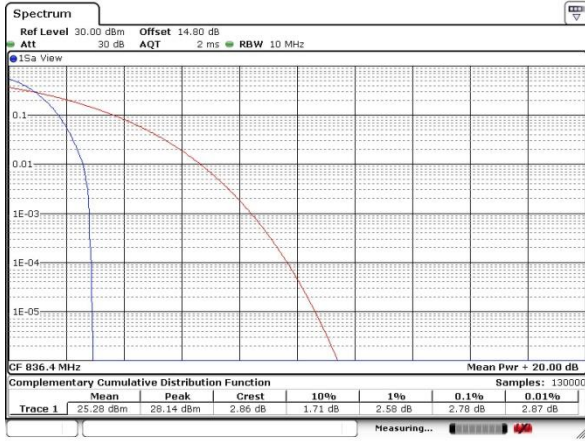
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



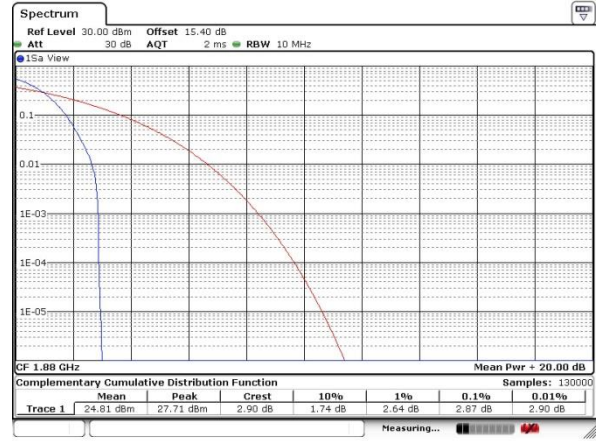
Date: 27_APR.2021 08:29:02

Middle Channel



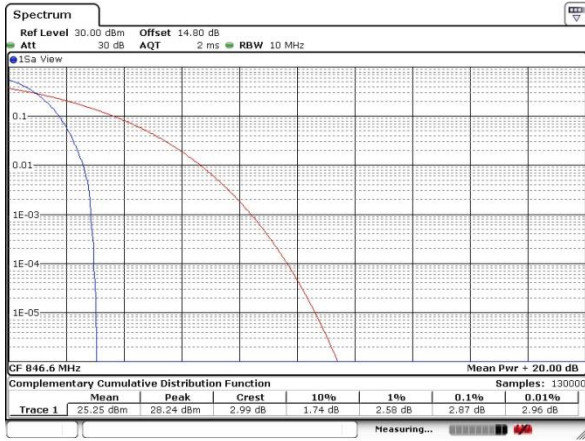
Date: 27_APR.2021 08:46:47

Middle Channel



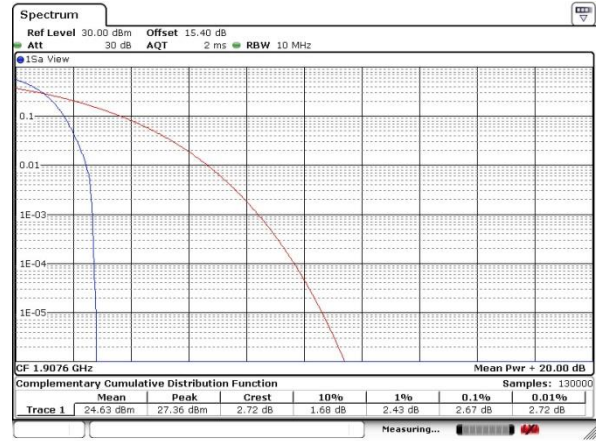
Date: 27_APR.2021 08:29:43

Highest Channel



Date: 27_APR.2021 08:46:55

Highest Channel



Date: 27_APR.2021 08:29:53



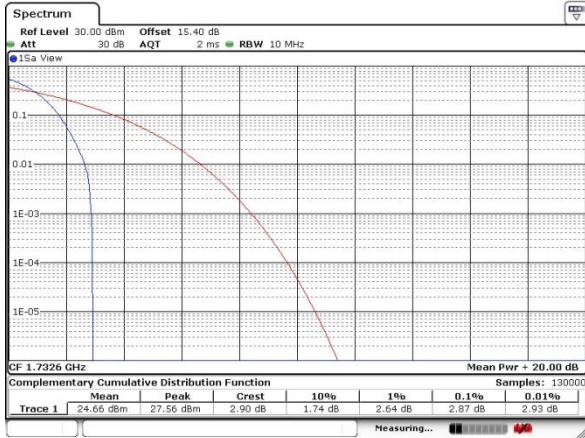
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



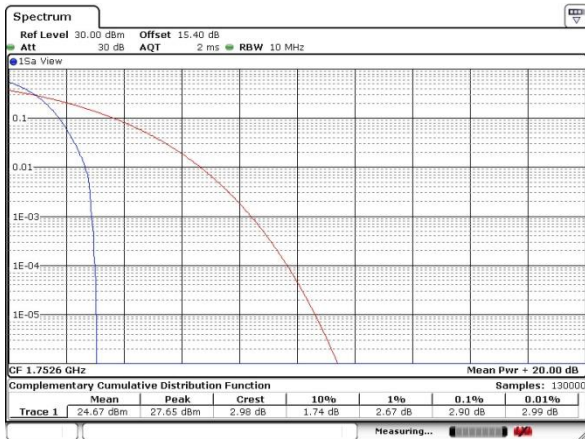
Date: 27_APR_2021 08:38:16

Middle Channel



Date: 27_APR_2021 08:38:26

Highest Channel



Date: 27_APR_2021 08:38:36



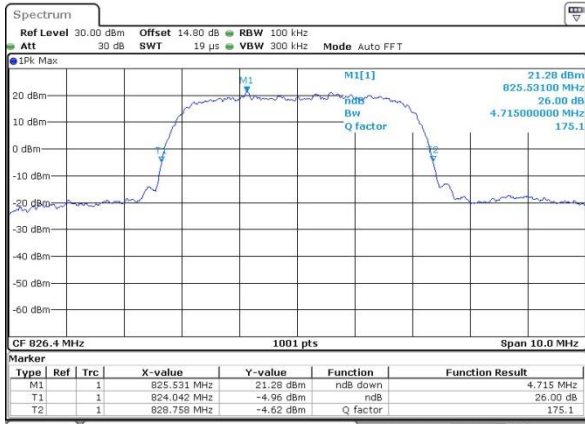
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.72	4.72	4.73
Middle CH	4.72	4.72	4.72
Highest CH	4.71	4.76	4.72



WCDMA Band V (RMC 12.2Kbps)

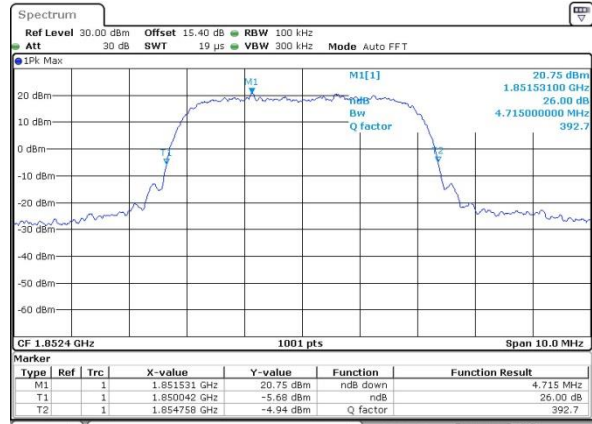
Lowest Channel



Date: 27_APR_2021 08:39:46

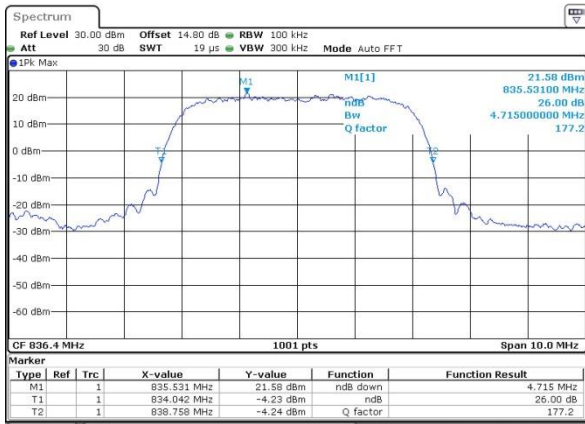
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



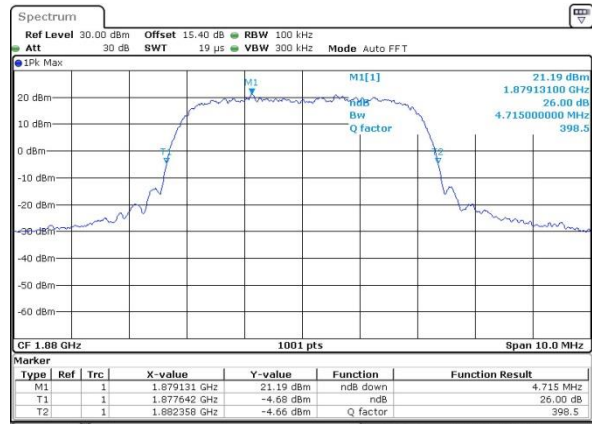
Date: 27_APR_2021 08:22:42

Middle Channel



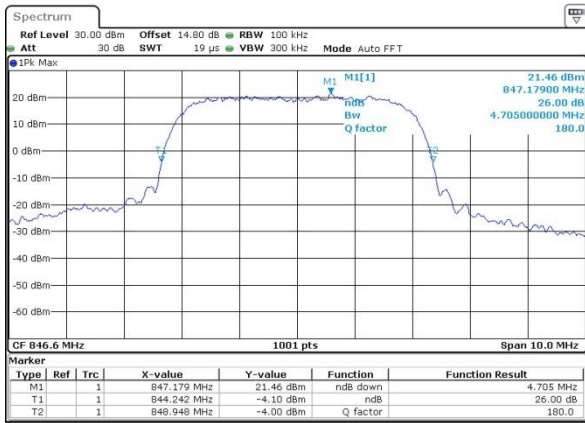
Date: 27_APR_2021 08:40:06

Middle Channel



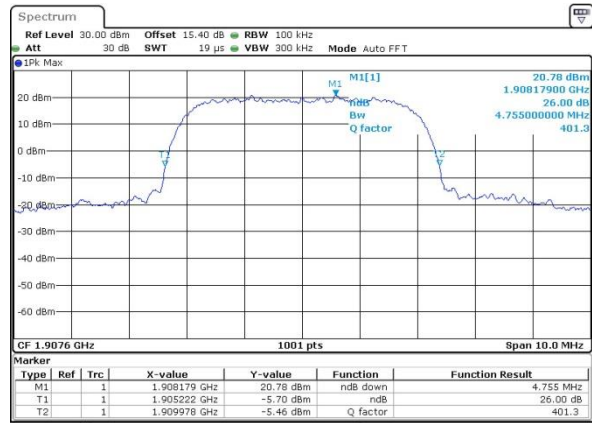
Date: 27_APR_2021 08:23:01

Highest Channel



Date: 27_APR_2021 08:40:27

Highest Channel

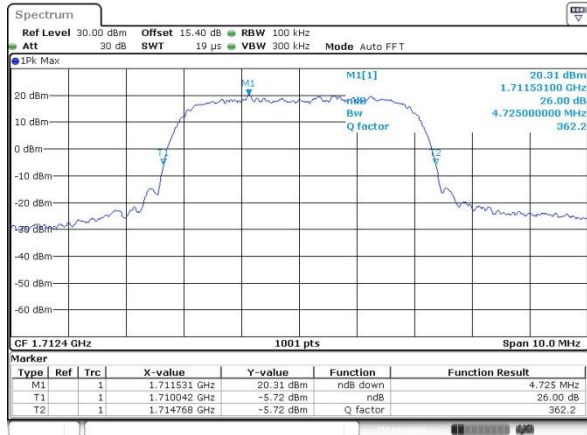


Date: 27_APR_2021 08:23:21



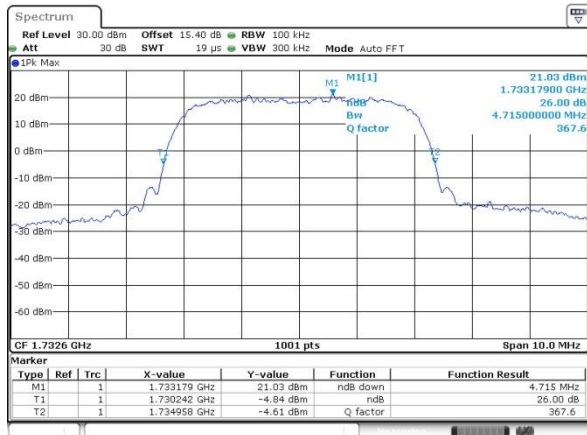
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



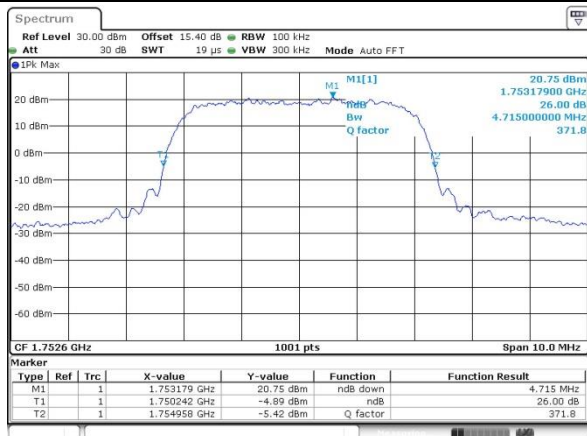
Date: 27_APR_2021 08:30:59

Middle Channel



Date: 27_APR_2021 08:31:20

Highest Channel



Date: 27_APR_2021 08:31:40



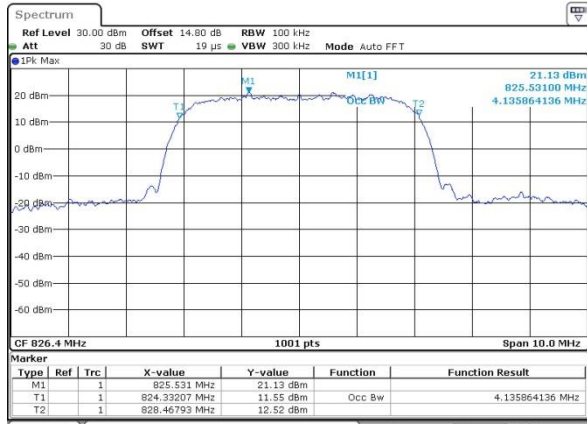
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.14	4.15	4.14
Middle CH	4.13	4.15	4.14
Highest CH	4.13	4.15	4.14



WCDMA Band V (RMC 12.2Kbps)

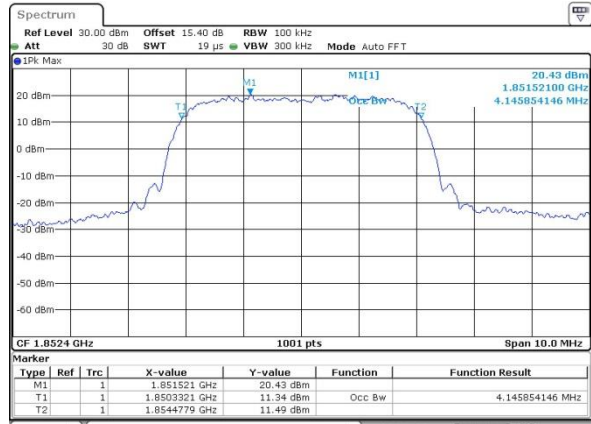
Lowest Channel



Date: 27_APR_2021 08:42:26

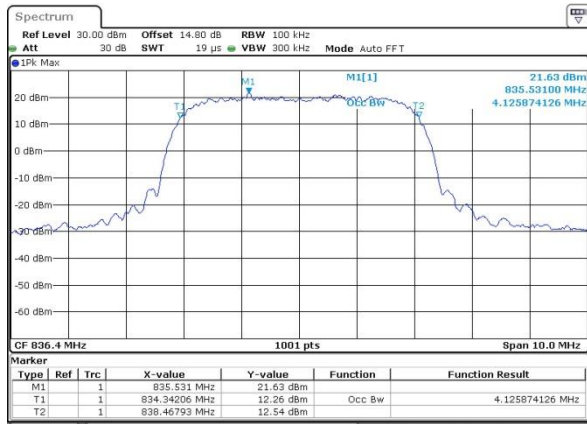
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



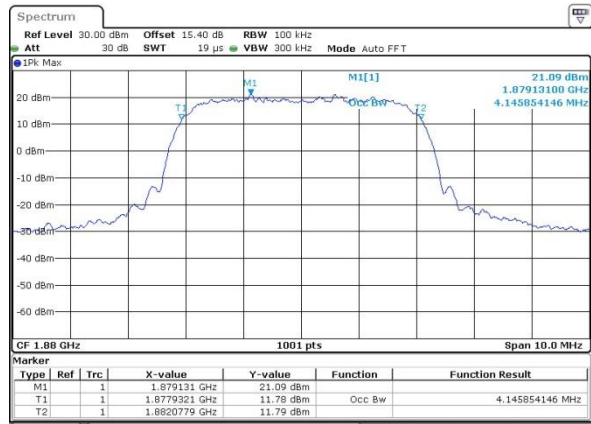
Date: 27_APR_2021 08:25:15

Middle Channel



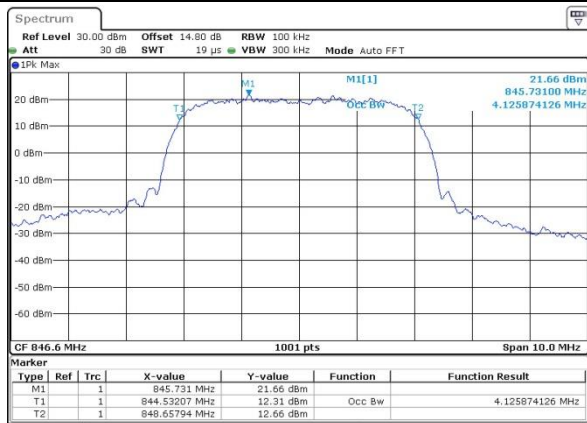
Date: 27_APR_2021 08:42:45

Middle Channel



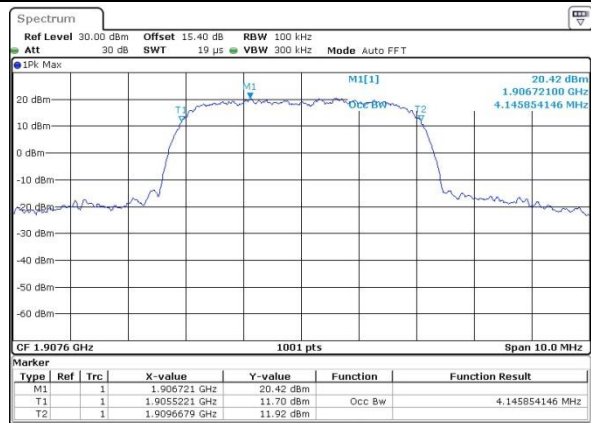
Date: 27_APR_2021 08:25:35

Highest Channel



Date: 27_APR_2021 08:43:05

Highest Channel

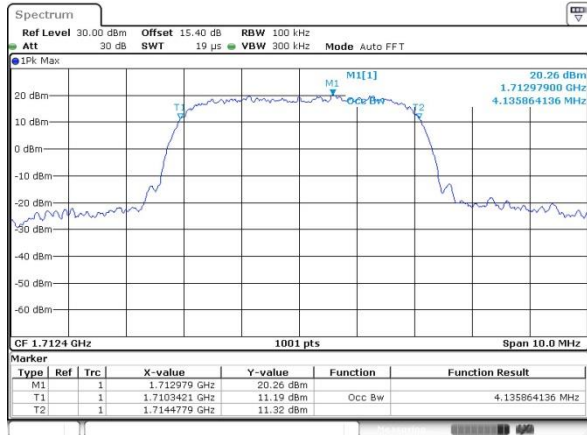


Date: 27_APR_2021 08:25:56



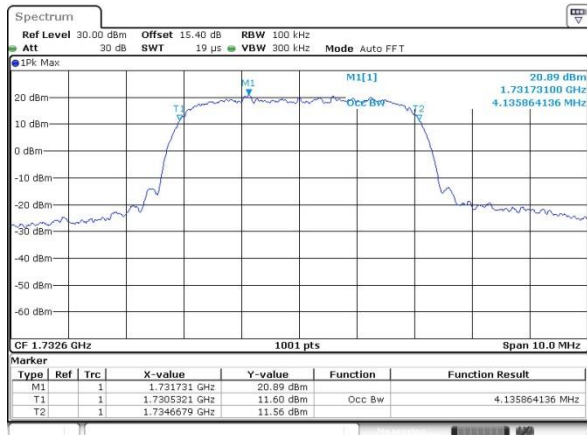
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



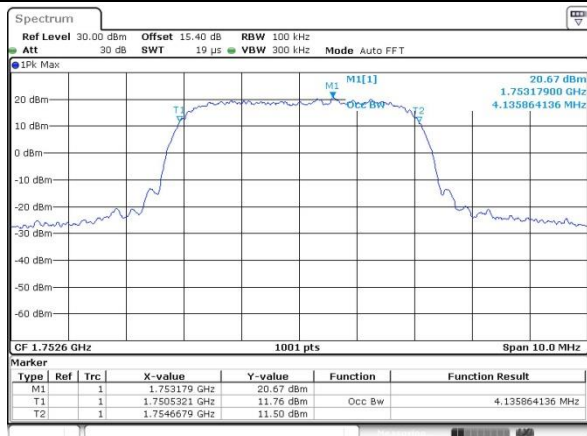
Date: 27_APR_2021 08:32:18

Middle Channel



Date: 27_APR_2021 08:32:40

Highest Channel



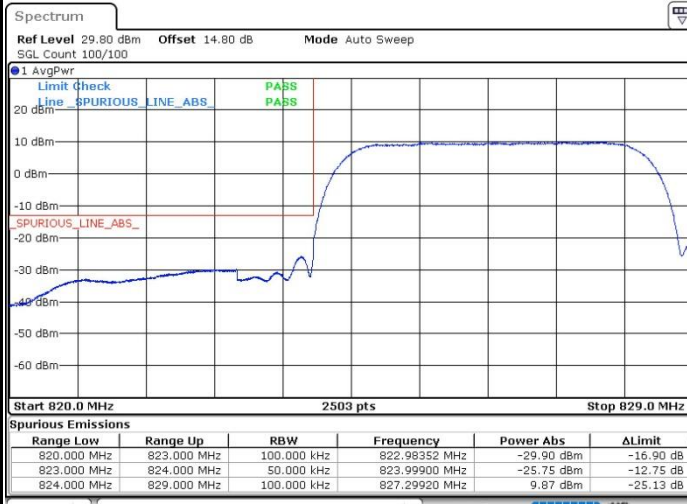
Date: 27_APR_2021 08:33:14



Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

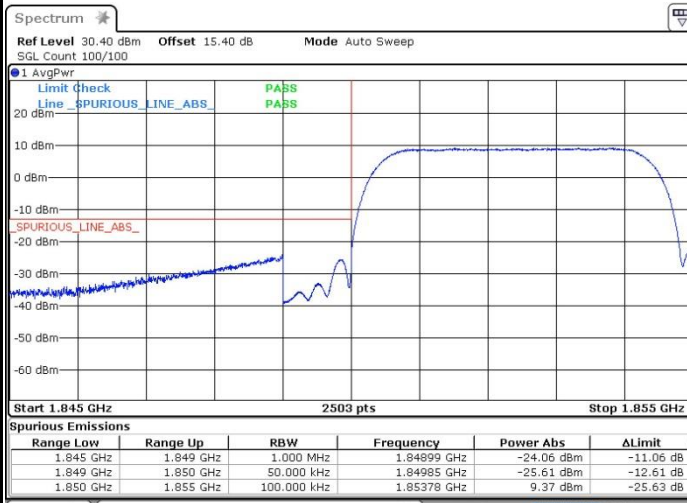


Highest Band Edge

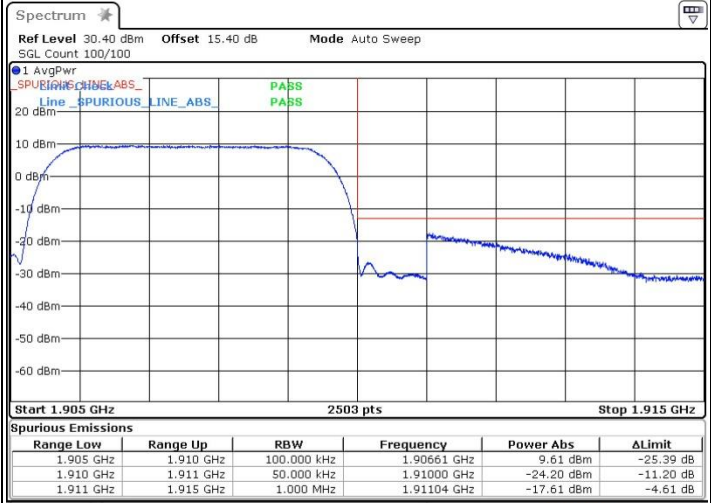


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

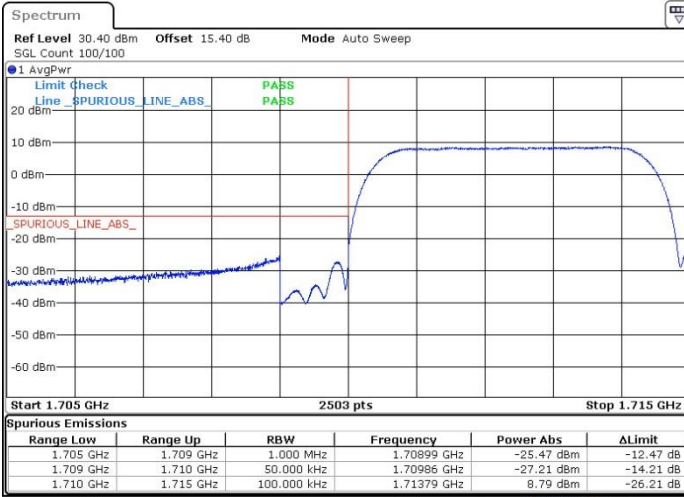




WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge

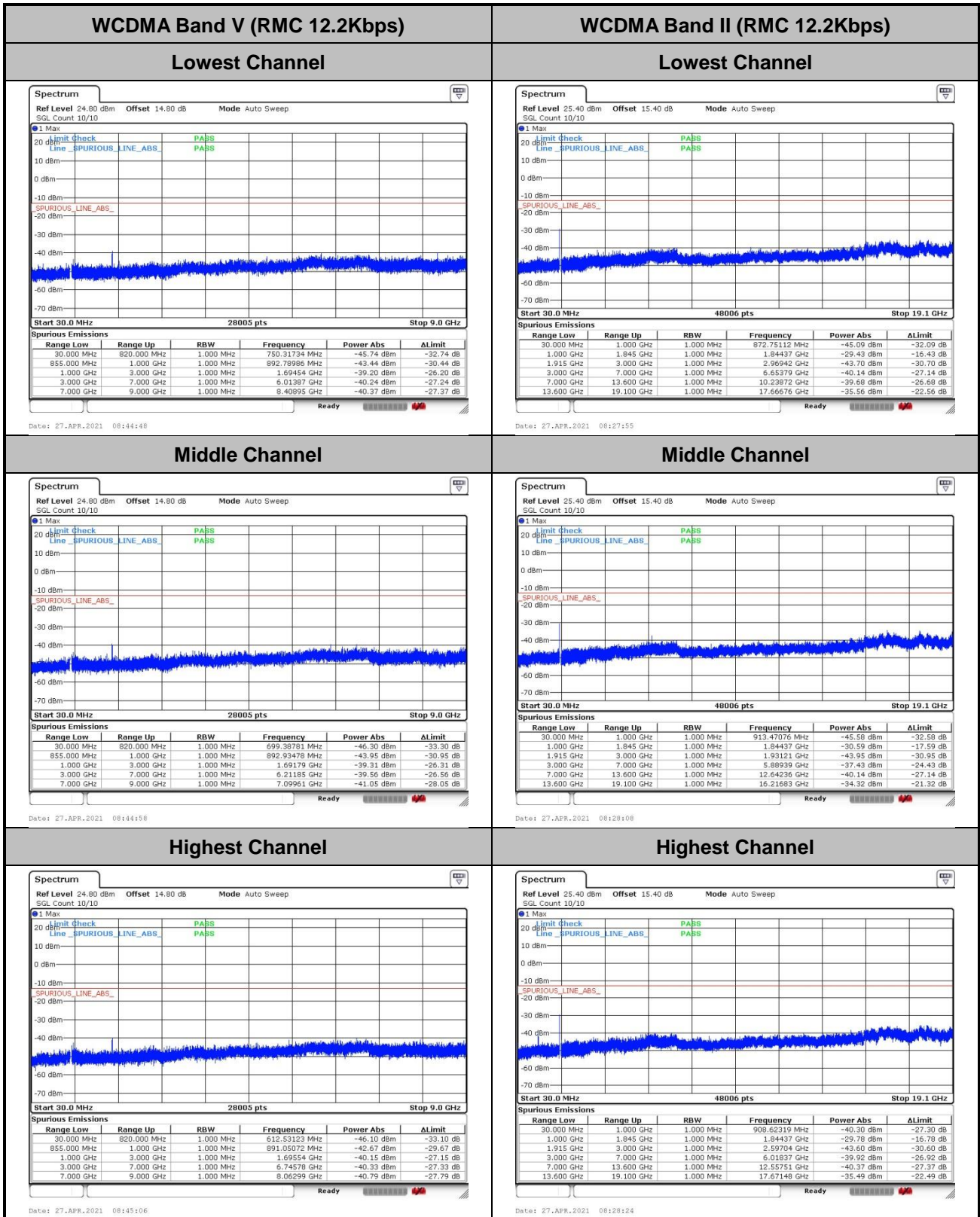


Date: 27.APR.2021 08:35:40

Date: 27.APR.2021 08:36:19



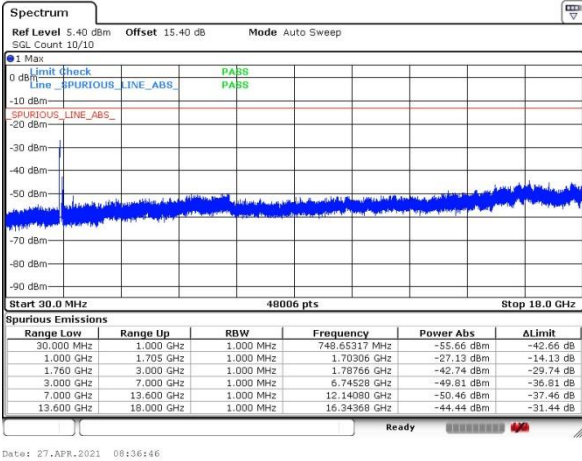
Conducted Spurious Emission





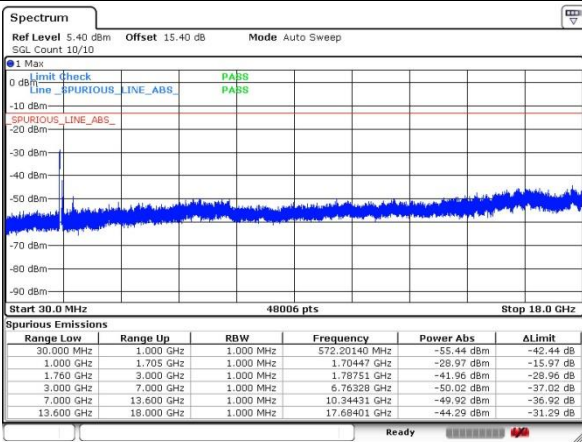
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



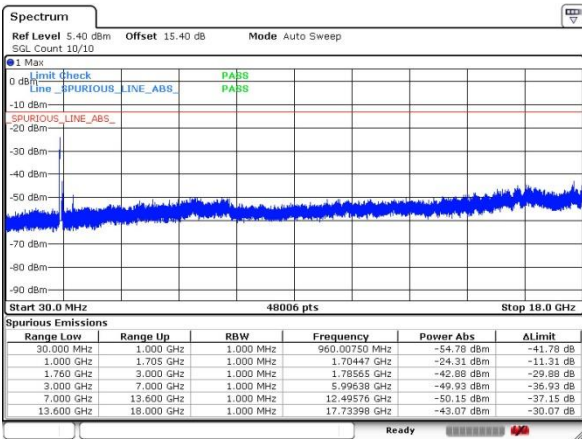
Date: 27_APR_2021 08:36:46

Middle Channel



Date: 27_APR_2021 08:37:21

Highest Channel



Date: 27_APR_2021 08:37:35



Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0072	PASS
40	Normal Voltage	0.0216	
30	Normal Voltage	0.0020	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0135	
0	Normal Voltage	0.0169	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0211	
-30	Normal Voltage	0.0033	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0065	

Note: Normal Voltage = 3.87V ; Battery End Point (BEP) =3.65V ; Maximum Voltage =4.45V



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0111	
30	Normal Voltage	0.0126	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0136	
0	Normal Voltage	0.0051	
-10	Normal Voltage	0.0122	
-20	Normal Voltage	0.0127	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0021	

Note:

- 1. Normal Voltage = 3.87V ; Battery End Point (BEP) =3.65V ; Maximum Voltage =4.45V
- 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	0.0026	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0133	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0125	
0	Normal Voltage	0.0136	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0113	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0055	

Note:

1. Normal Voltage = 3.87V. ; Battery End Point (BEP) =3.65V. ; Maximum Voltage =4.45V
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	-59.52	-13	-46.52	-66.49	1.58	10.70	H
	2510	-45.25	-13	-32.25	-53.50	2.10	12.50	H
	3348	-60.68	-13	-47.68	-69.57	2.86	13.90	H
	1672	-55.66	-13	-42.66	-62.63	1.58	10.70	V
	2510	-48.61	-13	-35.61	-56.86	2.10	12.50	V
	3348	-59.60	-13	-46.60	-68.49	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	-57.98	-13	-44.98	-64.95	1.58	10.70	H
	2508	-47.33	-13	-34.33	-55.58	2.10	12.50	H
	3348	-60.11	-13	-47.11	-69.00	2.86	13.90	H
	1672	-55.77	-13	-42.77	-62.74	1.58	10.70	V
	2510	-48.07	-13	-35.07	-56.32	2.10	12.50	V
	3348	-60.47	-13	-47.47	-69.36	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	-65.04	-13	-52.04	-72.01	1.58	10.70	H
	2510	-60.11	-13	-47.11	-68.36	2.10	12.50	H
	3348	-60.06	-13	-47.06	-68.95	2.86	13.90	H
	1672	-63.63	-13	-50.63	-70.60	1.58	10.70	V
	2510	-59.34	-13	-46.34	-67.59	2.10	12.50	V
	3348	-59.29	-13	-46.29	-68.18	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	-55.18	-13	-42.18	-67.44	2.64	14.90	H
	5640	-54.36	-13	-41.36	-66.22	2.94	14.80	H
	7524	-52.58	-13	-39.58	-62.35	3.39	13.16	H
	3759	-54.77	-13	-41.77	-67.03	2.64	14.90	V
	5640	-55.31	-13	-42.31	-67.17	2.94	14.80	V
	7524	-52.29	-13	-39.29	-62.06	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	-55.92	-13	-42.92	-68.18	2.64	14.90	H
	5640	-54.31	-13	-41.31	-66.17	2.94	14.80	H
	7524	-52.70	-13	-39.70	-62.47	3.39	13.16	H
	3759	-55.47	-13	-42.47	-67.73	2.64	14.90	V
	5640	-55.57	-13	-42.57	-67.43	2.94	14.80	V
	7524	-52.44	-13	-39.44	-62.21	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	3759	-55.94	-13	-42.94	-68.20	2.64	14.90	H
	5640	-54.48	-13	-41.48	-66.34	2.94	14.80	H
	7524	-52.26	-13	-39.26	-62.03	3.39	13.16	H
	3759	-56.01	-13	-43.01	-68.27	2.64	14.90	V
	5640	-54.86	-13	-41.86	-66.72	2.94	14.80	V
	7524	-51.84	-13	-38.84	-61.61	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)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-57.31	-13	-44.31	-68.05	2.604	13.34	H
	5199	-54.30	-13	-41.30	-64.81	3.011	13.52	H
	6936	-54.14	-13	-41.14	-64.34	3.271	13.47	H
	3465	-57.91	-13	-44.91	-68.65	2.604	13.34	V
	5199	-54.37	-13	-41.37	-64.88	3.011	13.52	V
	6936	-53.89	-13	-40.89	-64.09	3.271	13.47	V

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