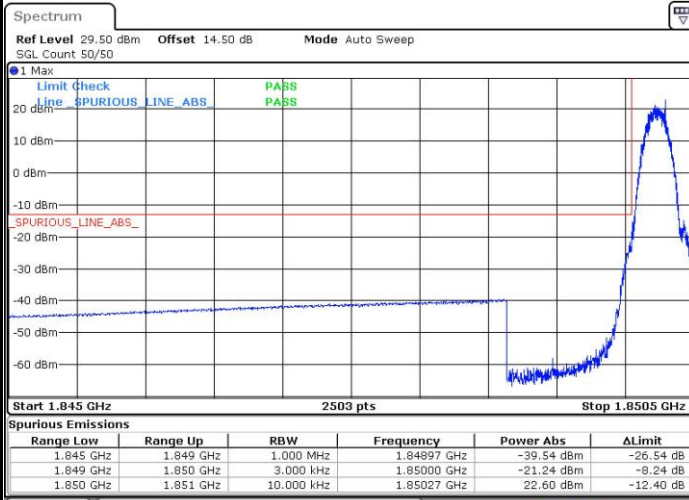


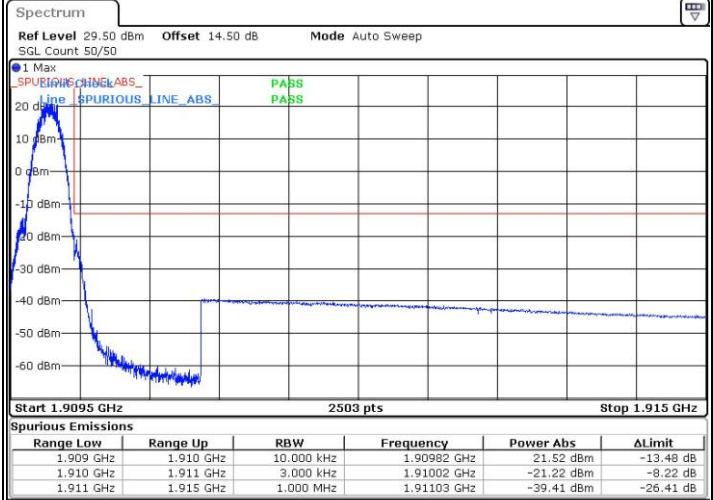


## GSM1900 (GSM)

## Lowest Band Edge

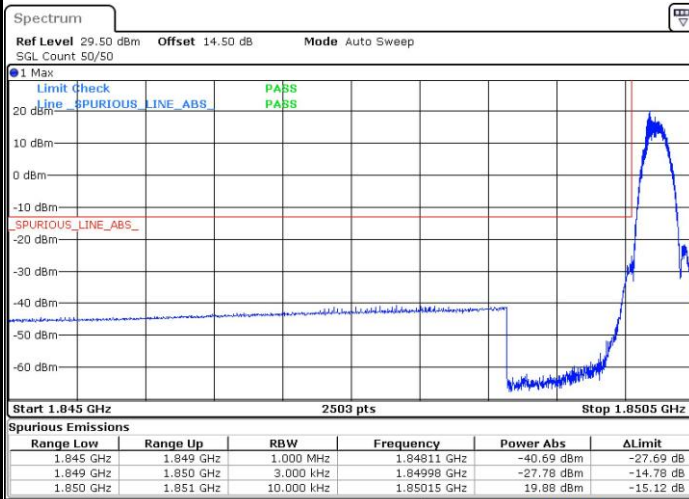


## Highest Band Edge

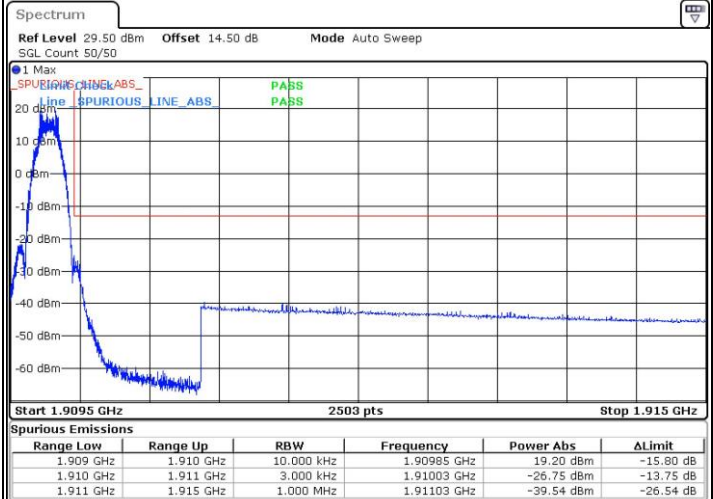


## GSM1900 (EDGE class 8)

## Lowest Band Edge



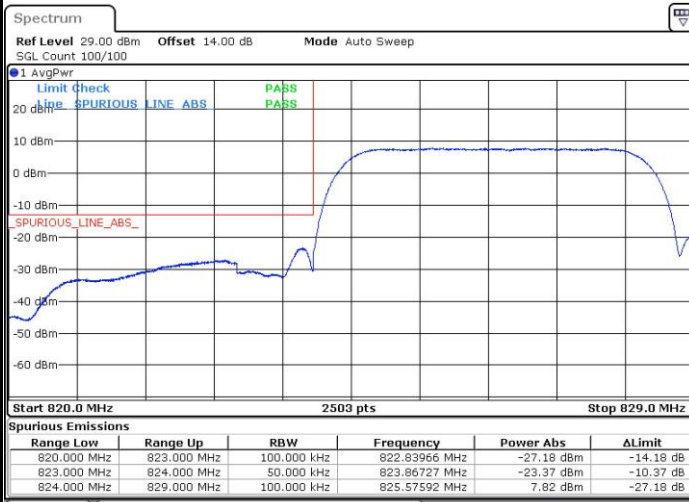
## Highest Band Edge





## WCDMA Band V (RMC 12.2Kbps)

## Lowest Band Edge

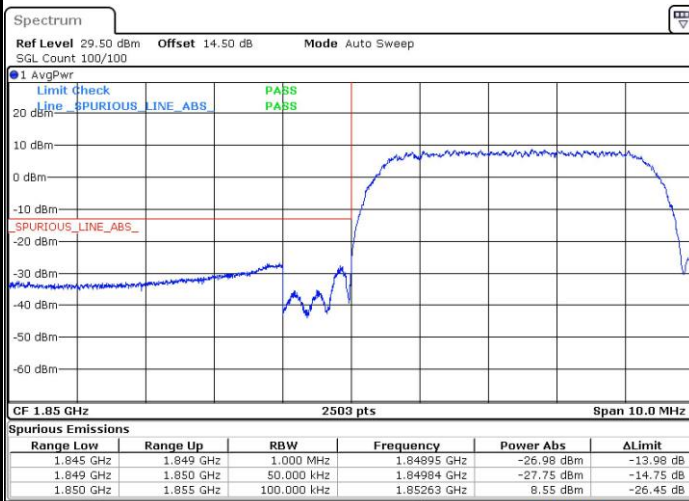


## Highest Band Edge

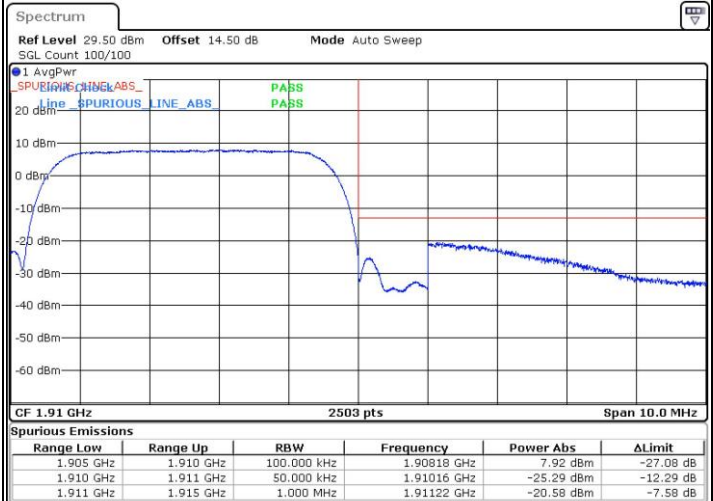


## WCDMA Band II (RMC 12.2Kbps)

## Lowest Band Edge



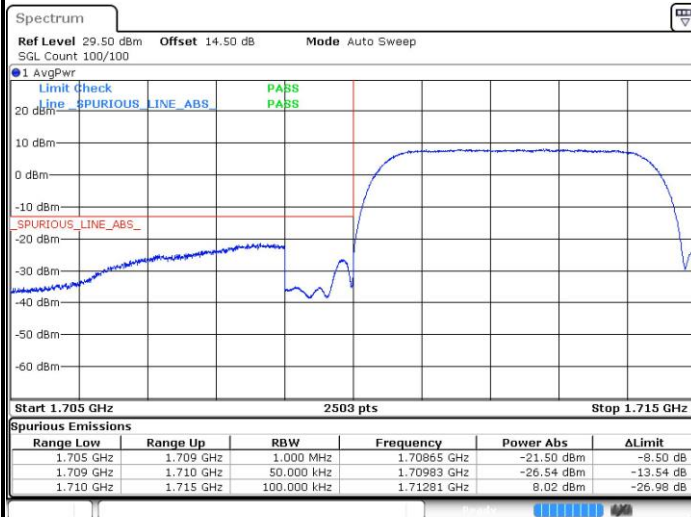
## Highest Band Edge



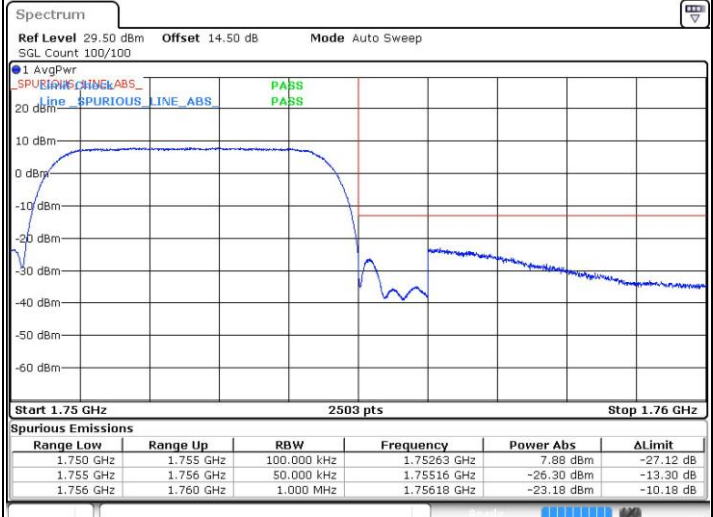


## WCDMA Band IV (RMC 12.2Kbps)

## Lowest Band Edge



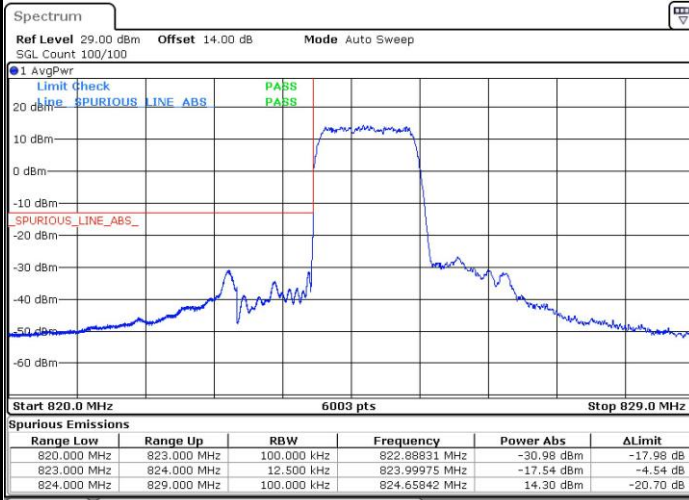
## Highest Band Edge



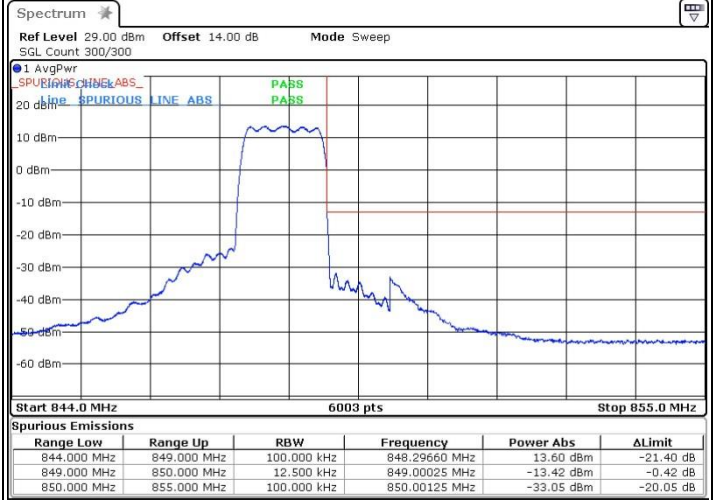


## CDMA BC0 (1xRTT)

## Lowest Band Edge

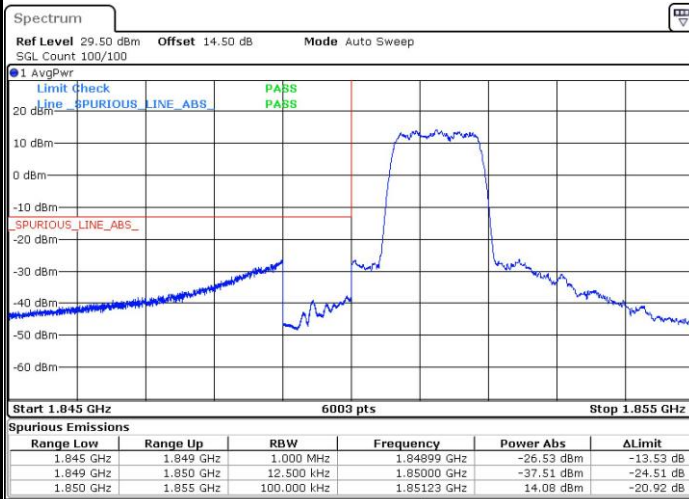


## Highest Band Edge

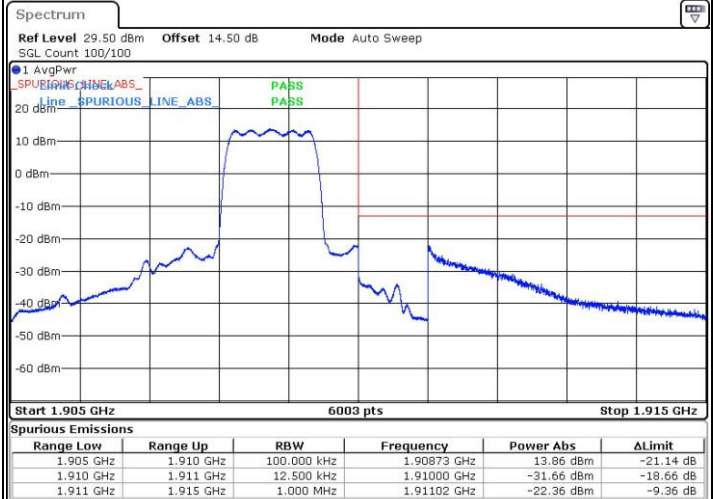


## CDMA BC1 (1xRTT)

## Lowest Band Edge



## Highest Band Edge



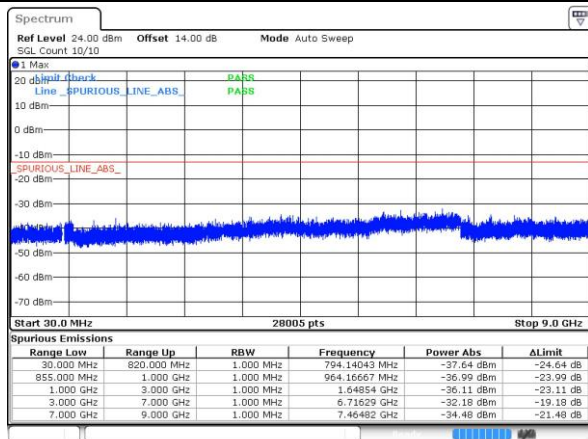




# Conducted Spurious Emission

## GSM850 (GSM)

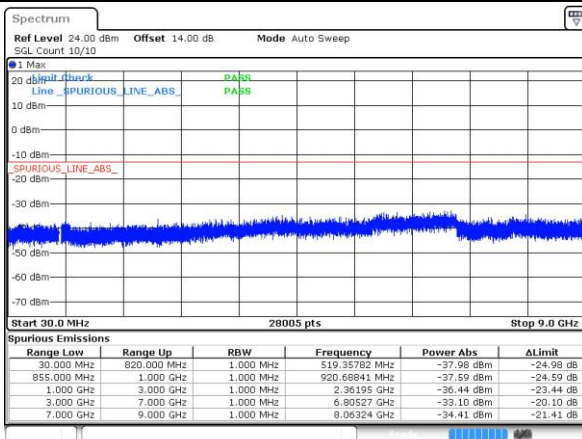
### Lowest Channel



Date: 15 JUN 2018 19:07:08

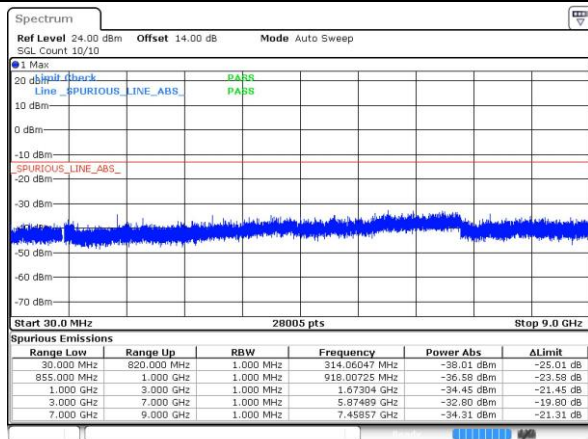
## GSM850 (EDGE class 8)

### Lowest Channel



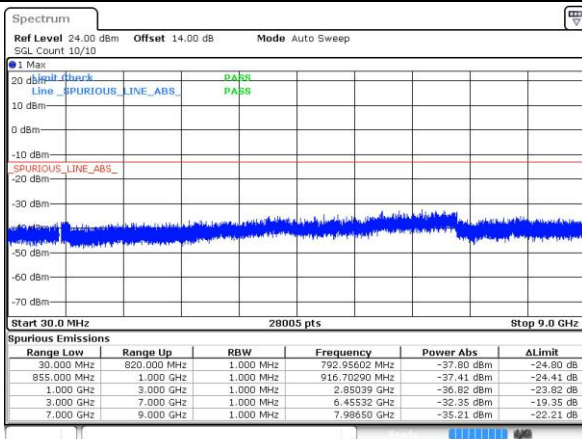
Date: 15 JUN 2018 19:55:18

### Middle Channel



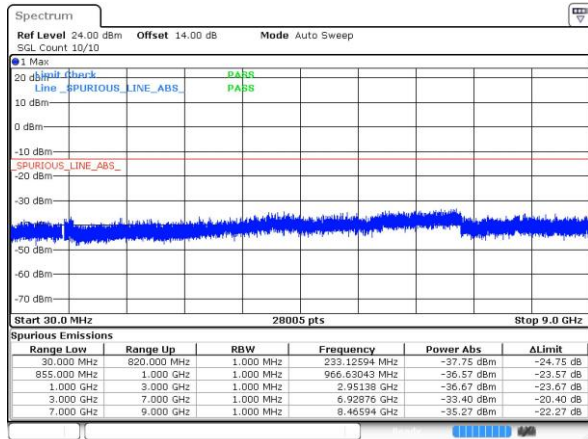
Date: 15 JUN 2018 19:08:23

### Middle Channel



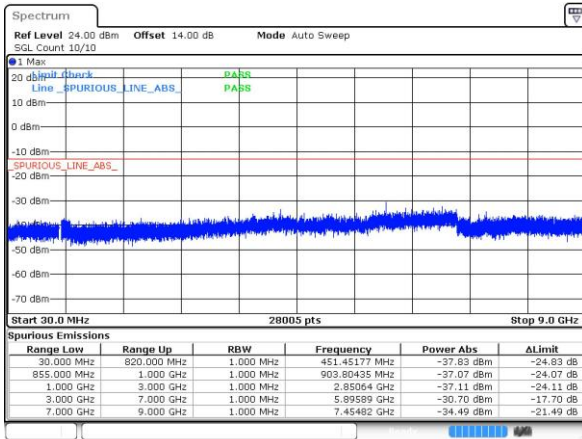
Date: 15 JUN 2018 19:57:42

### Highest Channel



Date: 15 JUN 2018 19:09:38

### Highest Channel

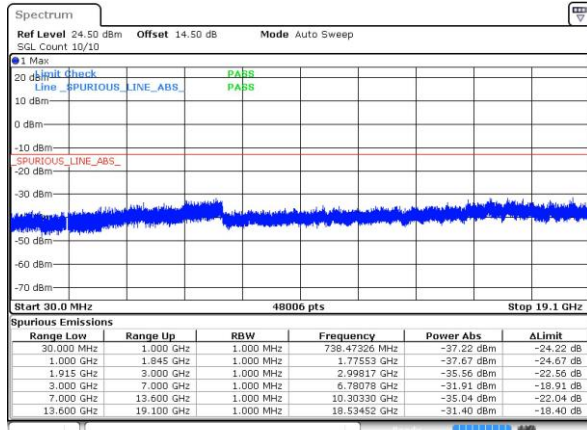


Date: 15 JUN 2018 19:59:58



## GSM1900 (GSM)

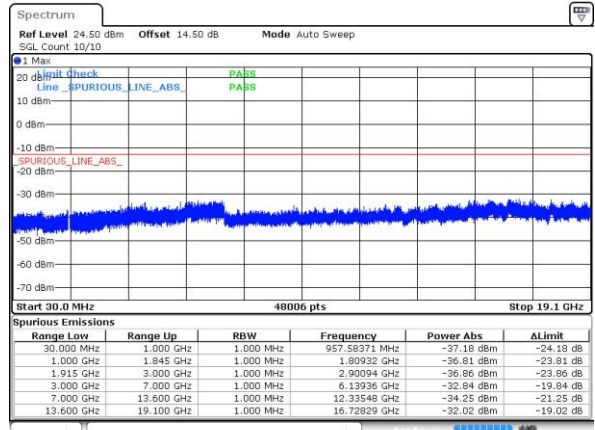
## Lowest Channel



Date: 15 JUN 2018 20:49:57

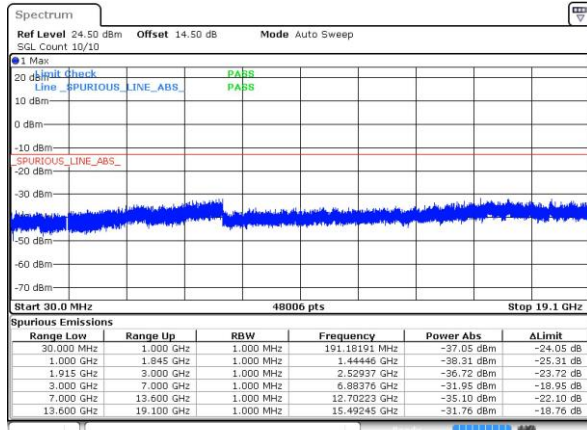
## GSM1900 (EDGE class 8)

## Lowest Channel



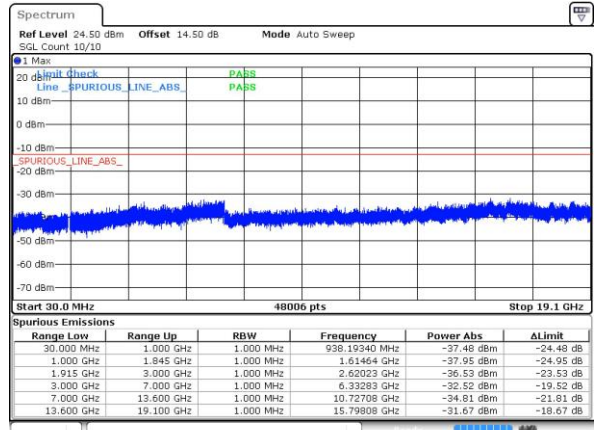
Date: 15 JUN 2018 20:15:16

## Middle Channel



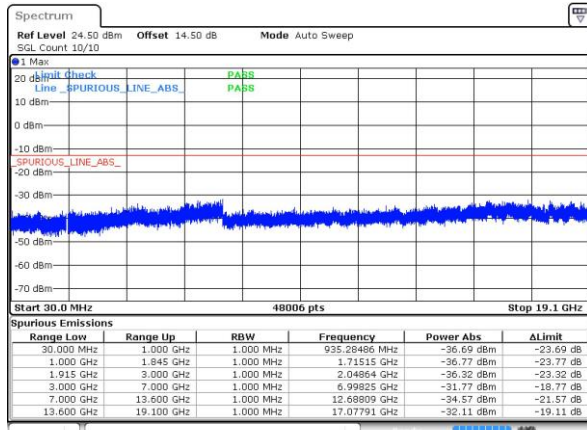
Date: 15 JUN 2018 20:51:12

## Middle Channel



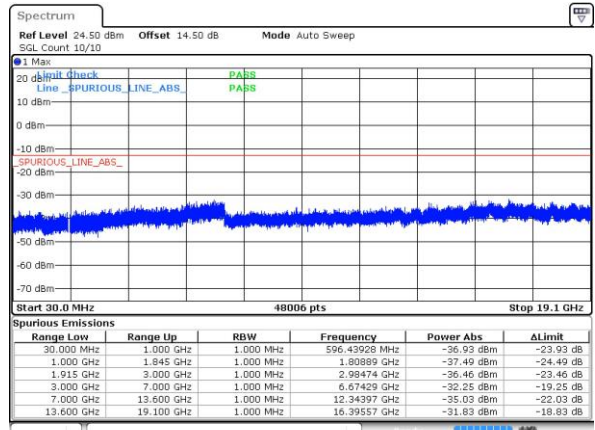
Date: 15 JUN 2018 20:16:46

## Highest Channel



Date: 15 JUN 2018 20:52:27

## Highest Channel

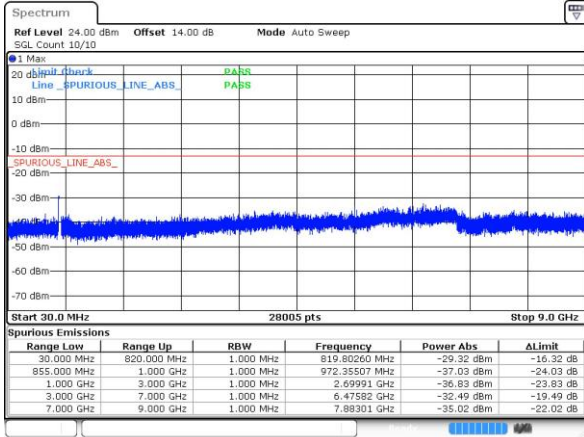


Date: 15 JUN 2018 20:27:06



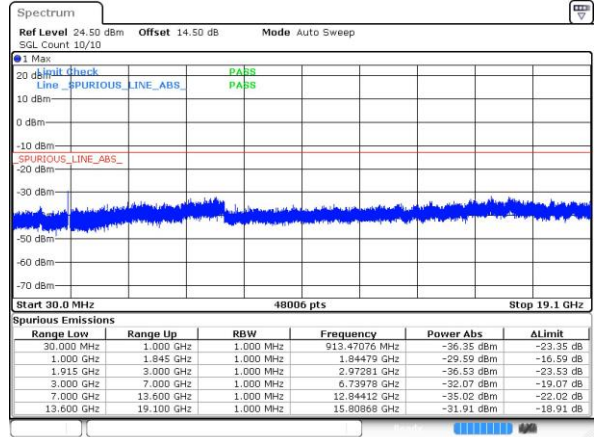
## WCDMA Band V (RMC 12.2Kbps)

## Lowest Channel

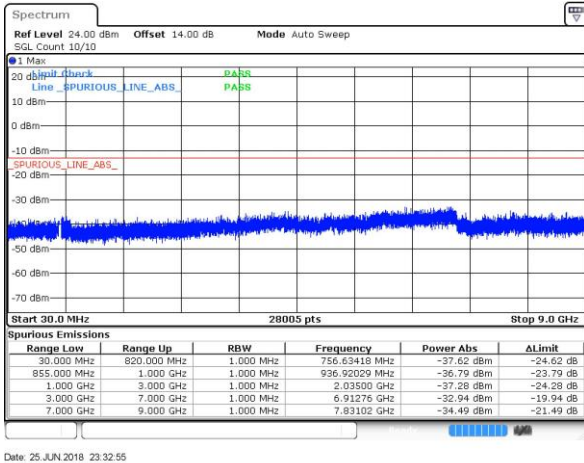


## WCDMA Band II (RMC 12.2Kbps)

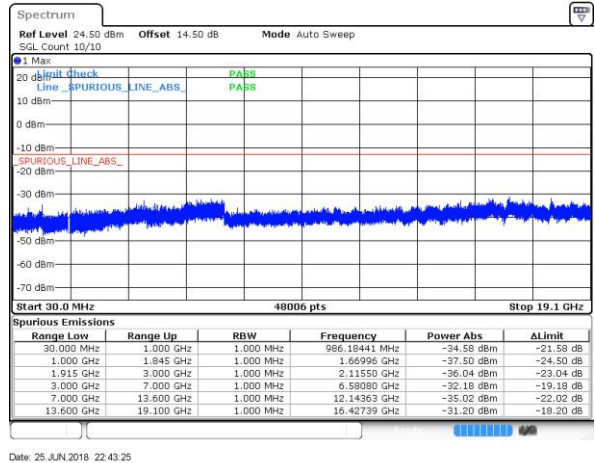
## Lowest Channel



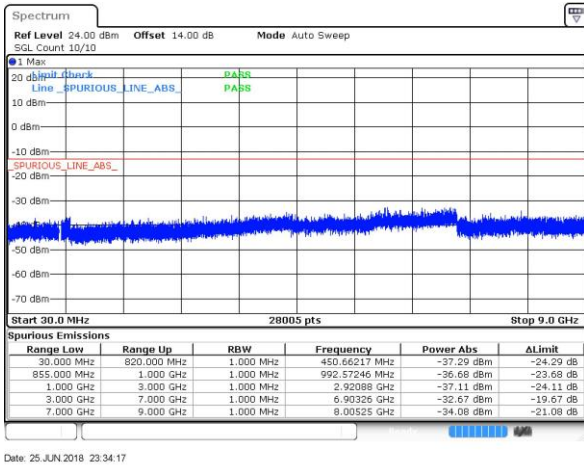
## Middle Channel



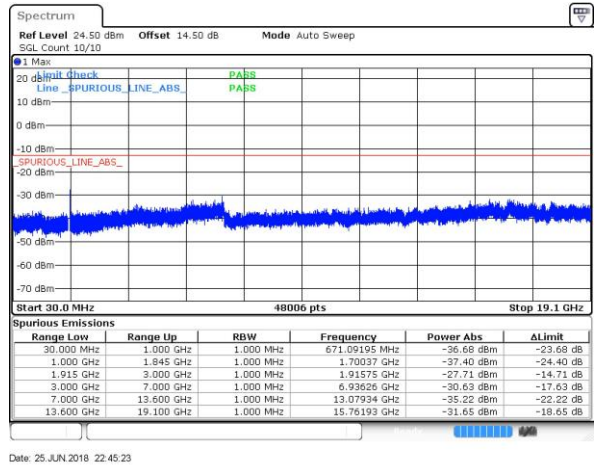
## Middle Channel



## Highest Channel



## Highest Channel

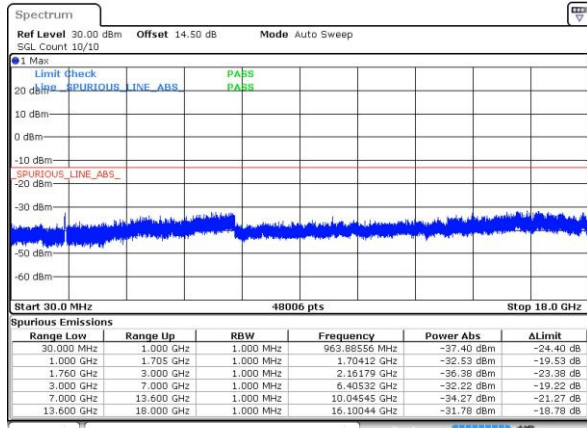




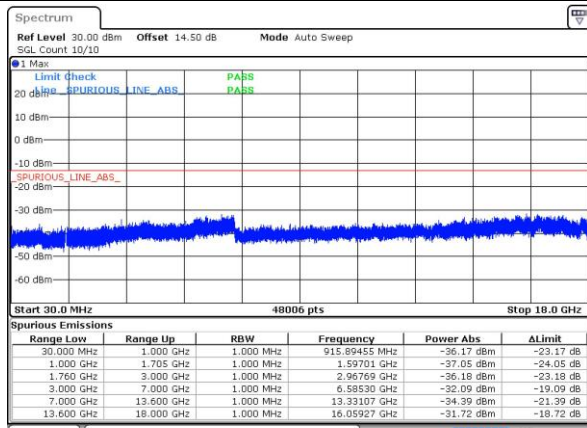


## WCDMA Band IV (RMC 12.2Kbps)

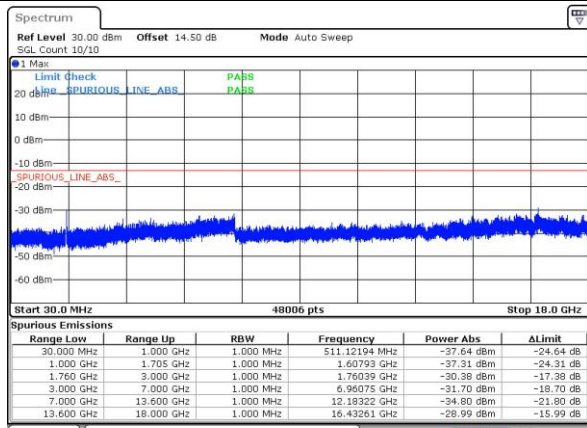
## Lowest Channel



## Middle Channel



## Highest Channel

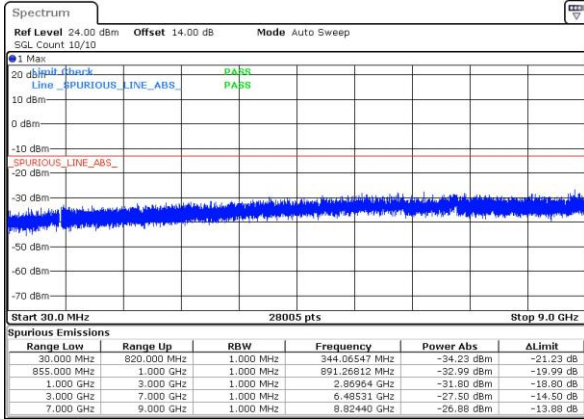






## CDMA BC0 (1xRTT)

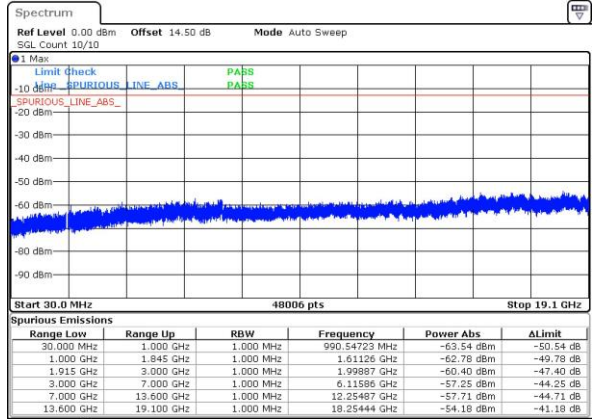
## Lowest Channel



Date: 14 JUN 2018 14:39:32

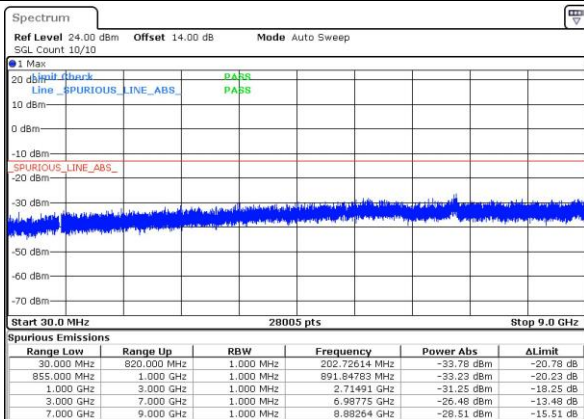
## CDMA BC1 (1xRTT)

## Lowest Channel



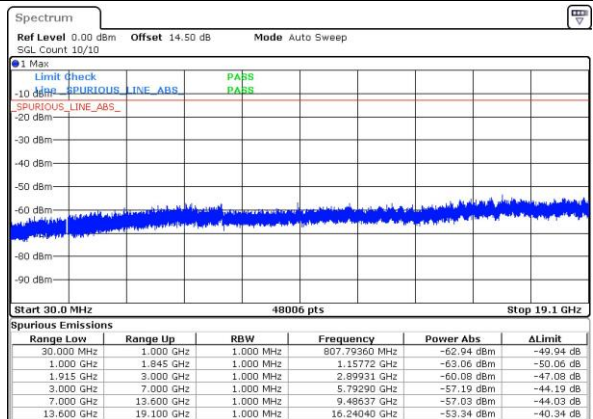
Date: 14 JUN 2018 15:45:17

## Middle Channel



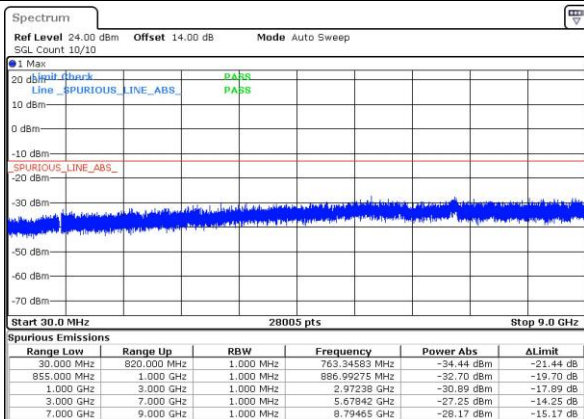
Date: 14 JUN 2018 14:40:56

## Middle Channel



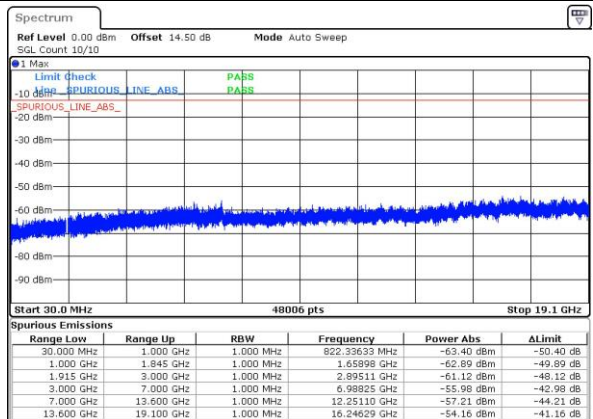
Date: 14 JUN 2018 15:46:41

## Highest Channel



Date: 14 JUN 2018 14:44:14

## Highest Channel



Date: 14 JUN 2018 15:48:06

**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	0.0047	0.0007	PASS
40	Normal Voltage	0.0045	0.0004	
30	Normal Voltage	0.0060	0.0032	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0037	0.0092	
0	Normal Voltage	0.0051	0.0053	
-10	Normal Voltage	0.0079	0.0056	
-20	Normal Voltage	0.0060	0.0037	
-30	Normal Voltage	0.0090	0.0029	
20	Maximum Voltage	0.0104	0.0018	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0105	0.0035	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0019	0.0034	PASS
40	Normal Voltage	0.0027	0.0029	
30	Normal Voltage	0.0022	0.0019	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0004	0.0023	
0	Normal Voltage	0.0032	0.0010	
-10	Normal Voltage	0.0026	0.0001	
-20	Normal Voltage	0.0021	0.0004	
-30	Normal Voltage	0.0034	0.0023	
20	Maximum Voltage	0.0040	0.0031	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0043	0.0025	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 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	0.0014	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0037	
20	Maximum Voltage	0.0062	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0072	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0011	PASS
40	Normal Voltage	0.0013	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0010	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0019	PASS
40	Normal Voltage	0.0022	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0045	
0	Normal Voltage	0.0041	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0002	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0008	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 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	0.0000	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0016	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0032	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0036	

Test Conditions	Middle Channel	CDMA BC1 (1xRTT)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0000	PASS
40	Normal Voltage	0.0007	
30	Normal Voltage	0.0007	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0009	
20	Maximum Voltage	0.0023	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

**Note:**

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.35 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

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	1672.8	-55.27	-13	-42.27	-56.98	-59.64	2.88	9.40	H
	2509.2	-56.19	-13	-43.19	-62.25	-62.14	2.5	10.60	H
	3345.6	-65.57	-13	-52.57	-73.57	-71.39	4.63	12.60	H
	4182	-63.01	-13	-50.01	-75.09	-68.44	5.02	12.60	H
	5018.4	-64.44	-13	-51.44	-79.12	-68.74	6.25	12.70	H
	5854.8	-66.08	-13	-53.08	-78.83	-67.93	9	13.00	H
	1672.8	-52.52	-13	-39.52	-55.19	-56.89	2.88	9.40	V
	2509.2	-52.74	-13	-39.74	-58.69	-58.69	2.50	10.60	V
	3345.6	-66.67	-13	-53.67	-74.70	-72.49	4.63	12.60	V
	4182	-57.93	-13	-44.93	-69.89	-63.36	5.02	12.60	V
	5018.4	-65.42	-13	-52.42	-79.24	-69.72	6.25	12.70	V
	5854.8	-60.15	-13	-47.15	-73.63	-62.00	9.00	13.00	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	1672.8	-70.93	-13	-57.93	-72.64	-75.30	2.88	9.40	H
	2509.2	-66.28	-13	-53.28	-72.34	-72.23	2.5	10.60	H
	3345.6	-69.08	-13	-56.08	-77.08	-74.90	4.63	12.60	H
	4182	-66.21	-13	-53.21	-78.29	-71.64	5.02	12.60	H
	5018.4	-64.59	-13	-51.59	-79.27	-68.89	6.25	12.70	H
	5854.8	-66.99	-13	-53.99	-79.74	-68.84	9	13.00	H
	1672.8	-69.81	-13	-56.81	-71.65	-74.18	2.88	9.40	V
	2509.2	-62.68	-13	-49.68	-68.63	-68.63	2.50	10.60	V
	3345.6	-68.92	-13	-55.92	-76.95	-74.74	4.63	12.60	V
	4182	-64.23	-13	-51.23	-76.19	-69.66	5.02	12.60	V
	5018.4	-65.42	-13	-52.42	-79.24	-69.72	6.25	12.70	V
	5854.8	-66.34	-13	-53.34	-79.82	-68.19	9.00	13.00	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	3760.00	-62.94	-13	-49.94	-76.56	-70.54	5.00	12.60	H
	5640.00	-61.52	-13	-48.52	-78.12	-67.32	7.30	13.10	H
	7520.00	-58.60	-13	-45.60	-78.58	-62.17	7.73	11.30	H
	3760.00	-62.42	-13	-49.42	-76.75	-70.02	5.00	12.60	V
	5640.00	-61.77	-13	-48.77	-78.3	-67.57	7.30	13.10	V
	7520.00	-59.05	-13	-46.05	-78.69	-62.62	7.73	11.30	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	3760.00	-61.63	-13	-48.63	-75.25	-69.23	5.00	12.60	H
	5640.00	-61.97	-13	-48.97	-78.57	-67.77	7.30	13.10	H
	7520.00	-58.79	-13	-45.79	-78.77	-62.36	7.73	11.30	H
	3760.00	-62.26	-13	-49.26	-76.59	-69.86	5.00	12.60	V
	5640.00	-61.86	-13	-48.86	-78.39	-67.66	7.30	13.10	V
	7520.00	-59.22	-13	-46.22	-78.86	-62.79	7.73	11.30	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	1672.8	-71.83	-13	-58.83	-73.54	-76.20	2.88	9.40	H
	2509.2	-69.21	-13	-56.21	-75.27	-75.16	2.5	10.60	H
	3345.6	-69.25	-13	-56.25	-77.25	-75.07	4.63	12.60	H
	4182	-66.40	-13	-53.40	-78.48	-71.83	5.02	12.60	H
	5018.4	-64.54	-13	-51.54	-79.22	-68.84	6.25	12.70	H
	5854.8	-67.10	-13	-54.10	-79.85	-68.95	9	13.00	H
	1672.8	-71.55	-13	-58.55	-73.39	-75.92	2.88	9.40	V
	2509.2	-69.47	-13	-56.47	-75.42	-75.42	2.50	10.60	V
	3345.6	-69.15	-13	-56.15	-77.18	-74.97	4.63	12.60	V
	4182	-66.59	-13	-53.59	-78.55	-72.02	5.02	12.60	V
	5018.4	-65.49	-13	-52.49	-79.31	-69.79	6.25	12.70	V
	5854.8	-66.48	-13	-53.48	-79.96	-68.33	9.00	13.00	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	3760.00	-62.15	-13	-49.15	-75.77	-69.75	5.00	12.60	H
	5640.00	-61.19	-13	-48.19	-77.79	-66.99	7.30	13.10	H
	7520.00	-57.92	-13	-44.92	-77.90	-61.49	7.73	11.30	H
	3760.00	-61.67	-13	-48.67	-76	-69.27	5.00	12.60	V
	5640.00	-61.10	-13	-48.10	-77.63	-66.90	7.30	13.10	V
	7520.00	-58.39	-13	-45.39	-78.03	-61.96	7.73	11.30	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	-48.62	-13	-35.62	-62.32	-56.59	4.63	12.60	H
	5197.8	-60.91	-13	-47.91	-78.84	-67.36	6.25	12.70	H
	6930.4	-59.67	-13	-46.67	-79.29	-64.44	8.23	13.00	H
	3465.2	-50.31	-13	-37.31	-61.72	-58.28	4.63	12.6	V
	5197.8	-64.93	-13	-51.93	-78.54	-71.38	6.25	12.7	V
	6930.4	-60.12	-13	-47.12	-79.24	-64.89	8.23	13	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	1673.04	-73.36	-13	-60.36	-75.07	-77.73	2.88	9.40	H
	2509.56	-70.68	-13	-57.68	-76.74	-76.63	2.5	10.60	H
	3346.08	-69.12	-13	-56.12	-77.12	-74.94	4.63	12.60	H
	4182	-66.45	-13	-53.45	-78.53	-71.88	5.02	12.60	H
	5019.12	-64.88	-13	-51.88	-79.56	-69.18	6.25	12.70	H
	5855.64	-67.08	-13	-54.08	-79.83	-68.93	9	13.00	H
	1673.04	-73.57	-13	-60.57	-75.41	-77.94	2.88	9.40	V
	2509.56	-71.25	-13	-58.25	-77.20	-77.20	2.50	10.60	V
	3346.08	-69.12	-13	-56.12	-77.15	-74.94	4.63	12.60	V
	4182	-66.77	-13	-53.77	-78.73	-72.20	5.02	12.60	V
	5019.12	-65.71	-13	-52.71	-79.53	-70.01	6.25	12.70	V
	5855.64	-66.33	-13	-53.33	-79.81	-68.18	9.00	13.00	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 )	SPA Reading (dBm)	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760.00	-62.12	-13	-49.12	-75.74	-69.72	5.00	12.60	H
	5640.00	-60.04	-13	-47.04	-76.64	-65.84	7.30	13.10	H
	7520.00	-57.82	-13	-44.82	-77.80	-61.39	7.73	11.30	H
	3760.00	-61.69	-13	-48.69	-76.02	-69.29	5.00	12.60	V
	5640.00	-61.28	-13	-48.28	-77.81	-67.08	7.30	13.10	V
	7520.00	-58.64	-13	-45.64	-78.28	-62.21	7.73	11.30	V

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