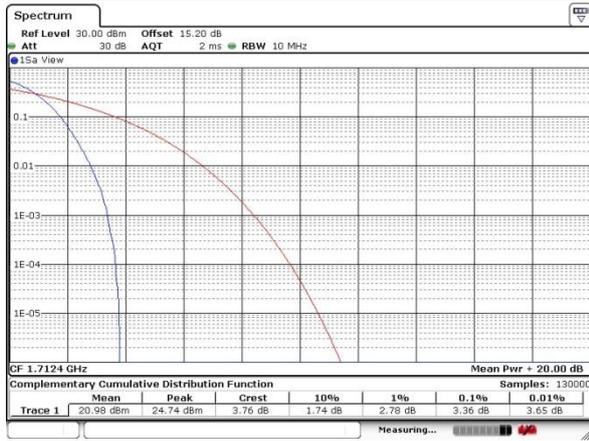




WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



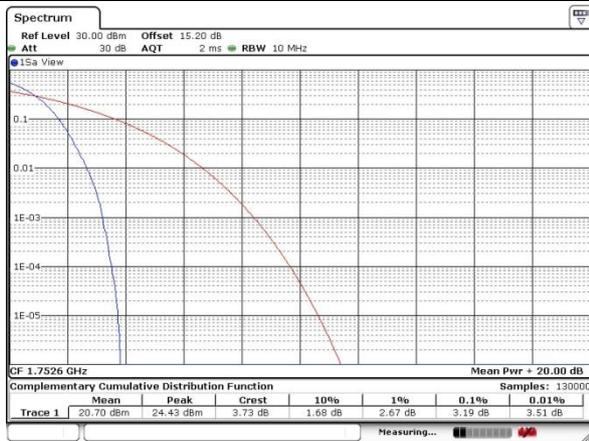
Date: 15 APR 2017 14:56:54

Middle Channel



Date: 15 APR 2017 14:57:01

Highest Channel



Date: 15 APR 2017 14:57:08



26dB Bandwidth

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.317	0.310
Middle CH	0.314	0.313
Highest CH	0.316	0.314

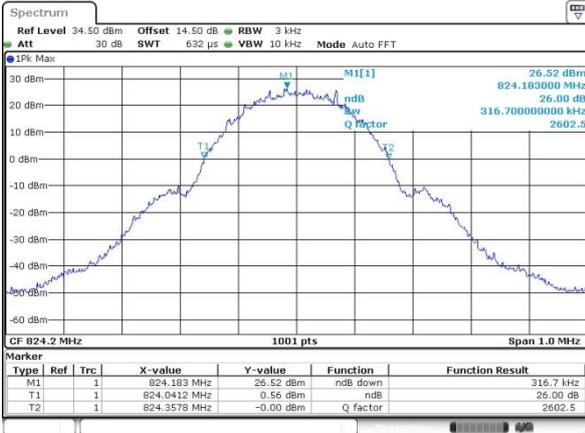
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.313	0.313
Middle CH	0.316	0.310
Highest CH	0.316	0.314

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.75	4.71	4.70
Middle CH	4.74	4.72	4.71
Highest CH	4.73	4.71	4.70



GSM850 (GSM)

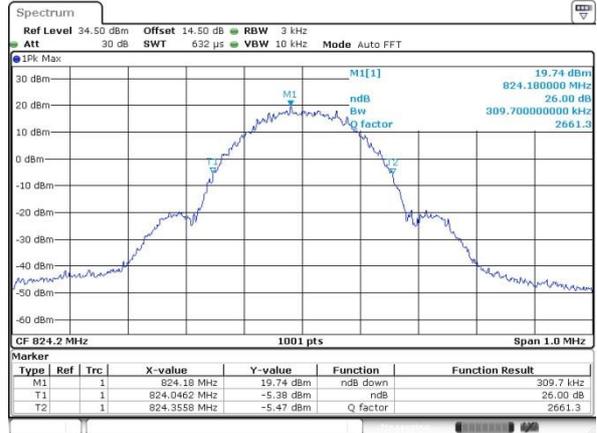
Lowest Channel



Date: 15 APR 2017 10:51:08

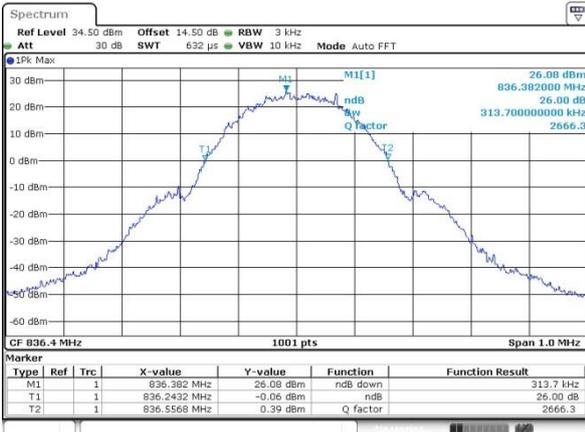
GSM850 (EDGE class 8)

Lowest Channel



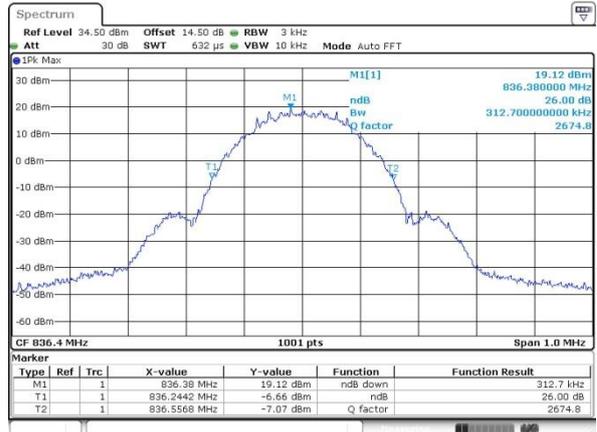
Date: 15 APR 2017 11:02:22

Middle Channel



Date: 15 APR 2017 10:59:28

Middle Channel



Date: 15 APR 2017 11:03:09

Highest Channel



Date: 15 APR 2017 10:59:55

Highest Channel

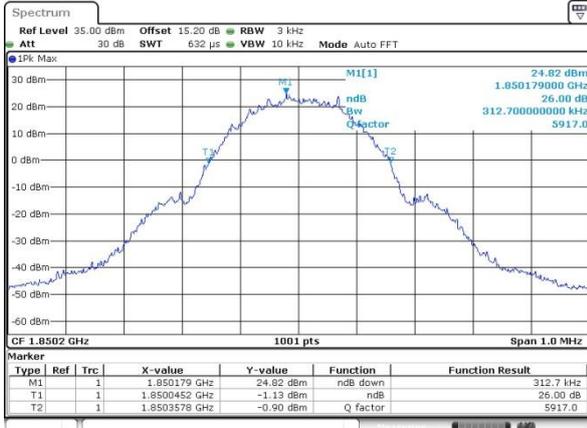


Date: 15 APR 2017 11:03:45



GSM1900 (GSM)

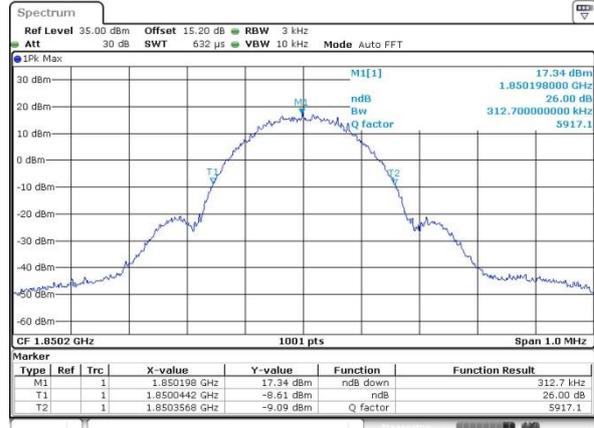
Lowest Channel



Date: 15 APR 2017 11:29:33

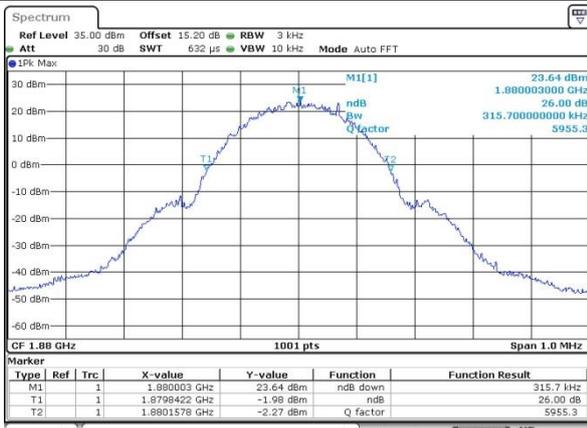
GSM1900 (EDGE class 8)

Lowest Channel



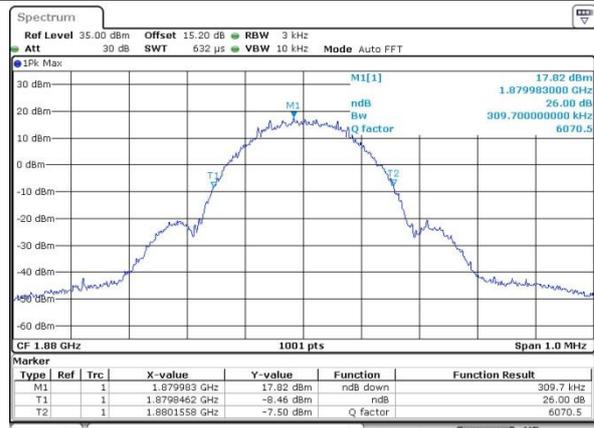
Date: 15 APR 2017 11:47:14

Middle Channel



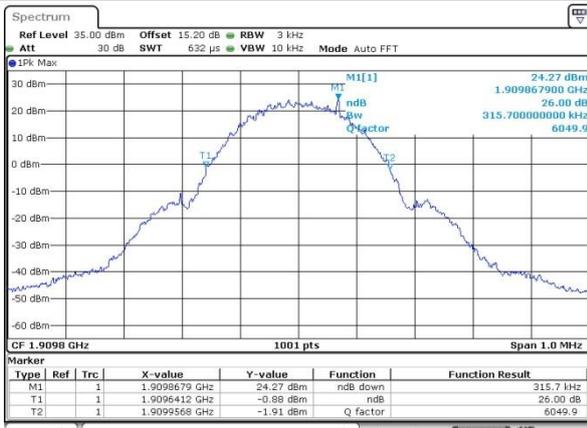
Date: 15 APR 2017 11:30:01

Middle Channel



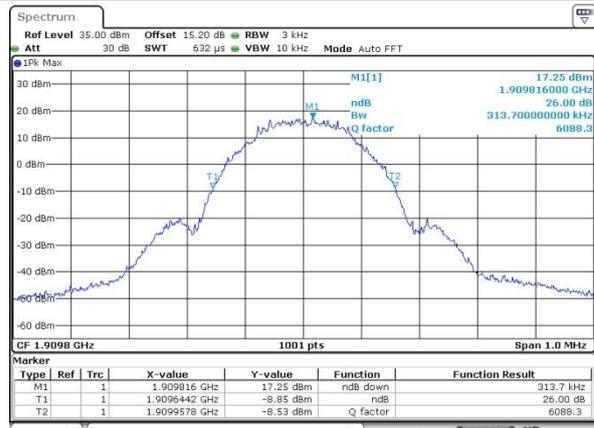
Date: 15 APR 2017 11:47:48

Highest Channel



Date: 15 APR 2017 11:30:30

Highest Channel

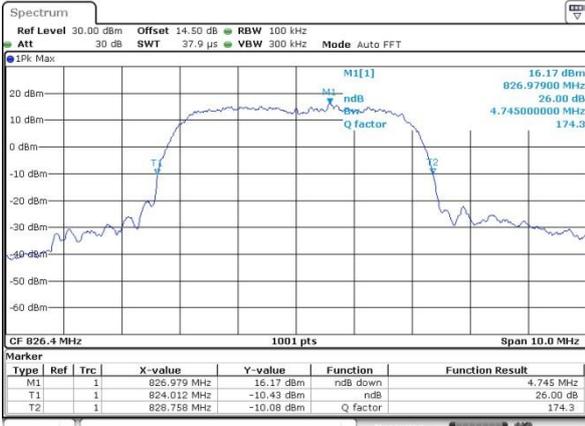


Date: 15 APR 2017 11:48:23



WCDMA Band V (RMC 12.2Kbps)

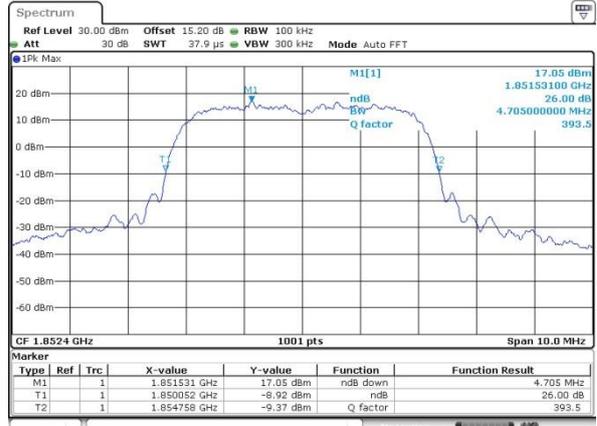
Lowest Channel



Date: 15 APR 2017 14:00:30

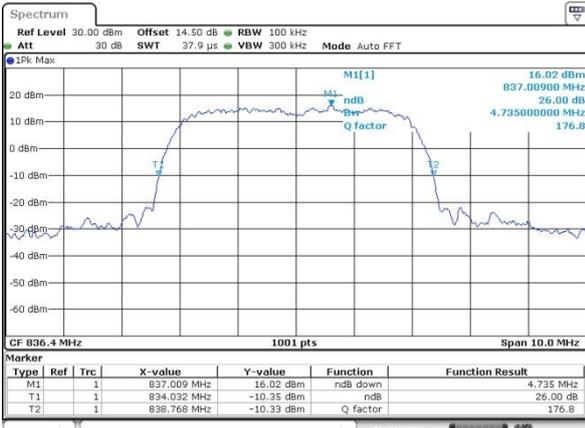
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



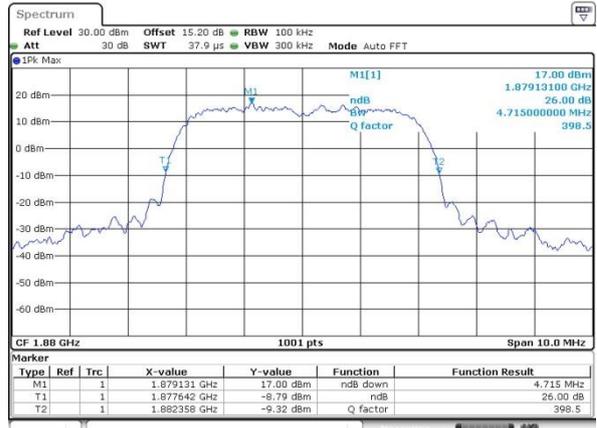
Date: 15 APR 2017 14:22:58

Middle Channel



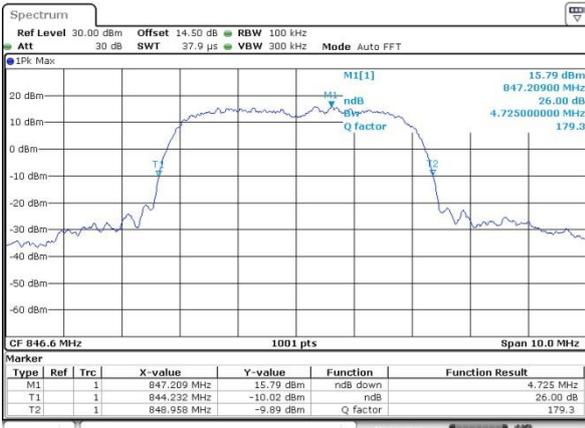
Date: 15 APR 2017 14:00:58

Middle Channel



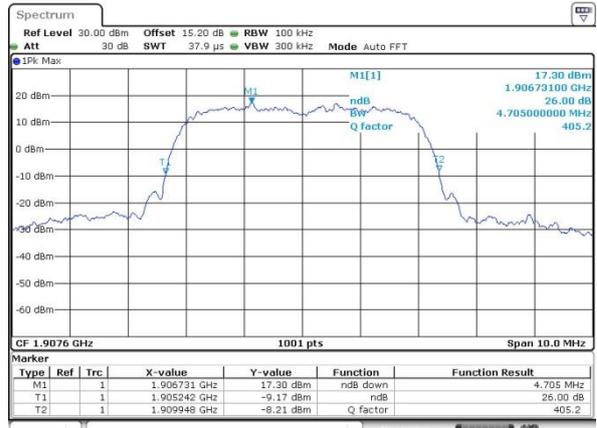
Date: 15 APR 2017 14:23:26

Highest Channel



Date: 15 APR 2017 14:01:26

Highest Channel

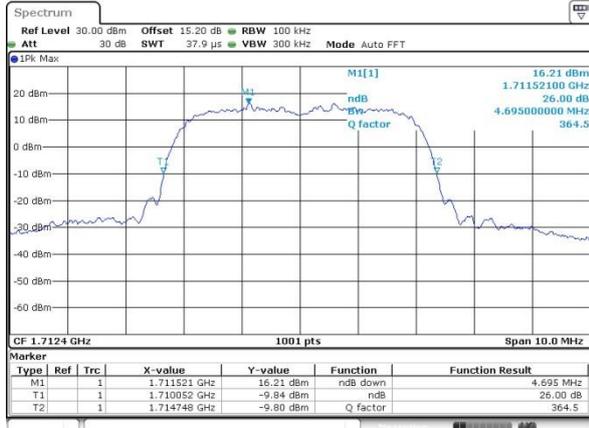


Date: 15 APR 2017 14:23:55



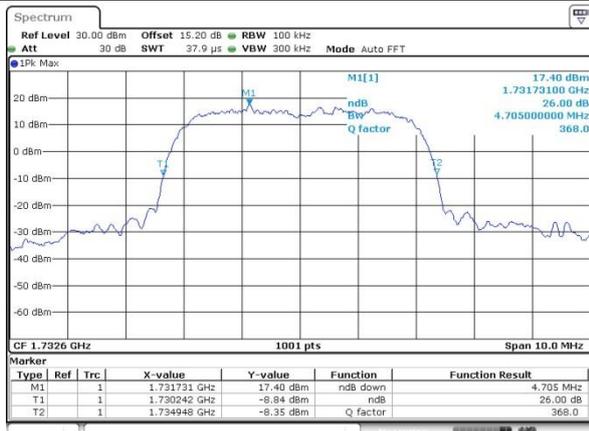
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



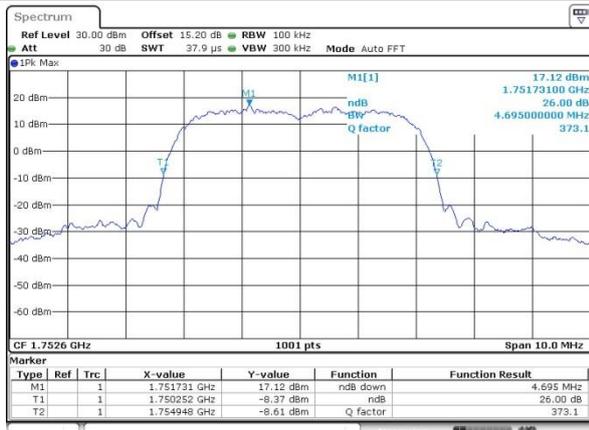
Date: 15 APR 2017 14:45:36

Middle Channel



Date: 15 APR 2017 14:46:05

Highest Channel



Date: 15 APR 2017 14:46:33



Occupied Bandwidth

Mode	GSM850(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.243
Middle CH	0.242	0.243
Highest CH	0.244	0.242

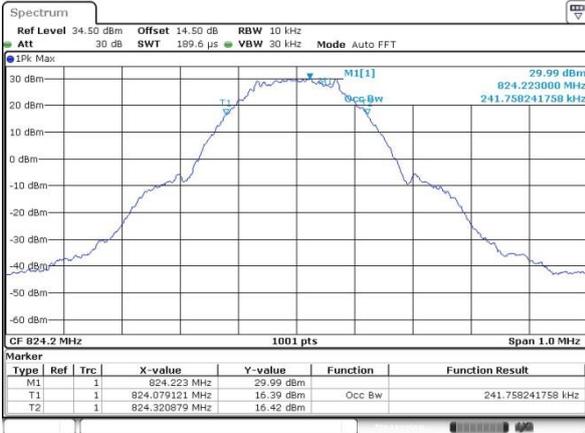
Mode	GSM1900(MHz)	
Mod.	GSM	EDGE class 8
Lowest CH	0.242	0.246
Middle CH	0.241	0.243
Highest CH	0.242	0.243

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.11	4.14	4.13
Middle CH	4.13	4.15	4.13
Highest CH	4.14	4.15	4.14



GSM850 (GSM)

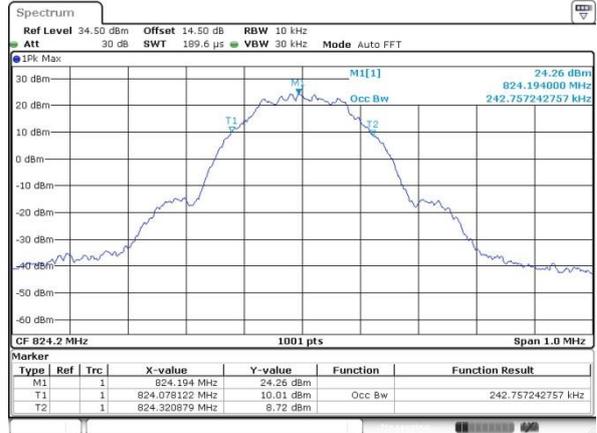
Lowest Channel



Date: 15 APR 2017 10:56:48

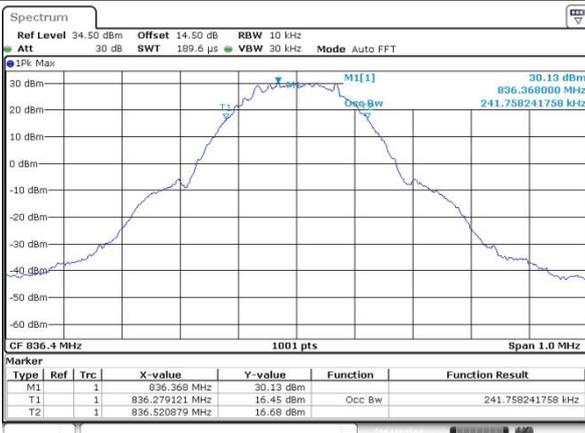
GSM850 (EDGE class 8)

Lowest Channel



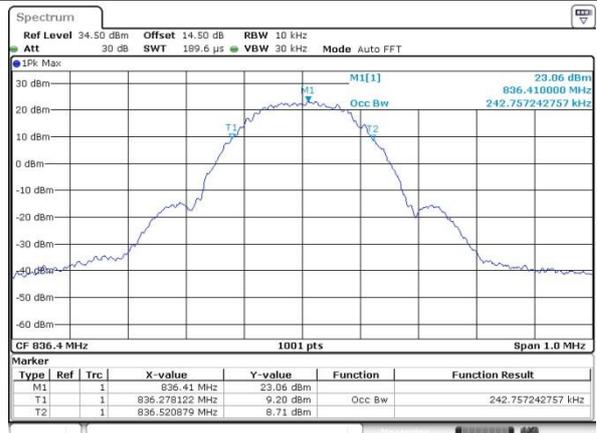
Date: 15 APR 2017 11:07:15

Middle Channel



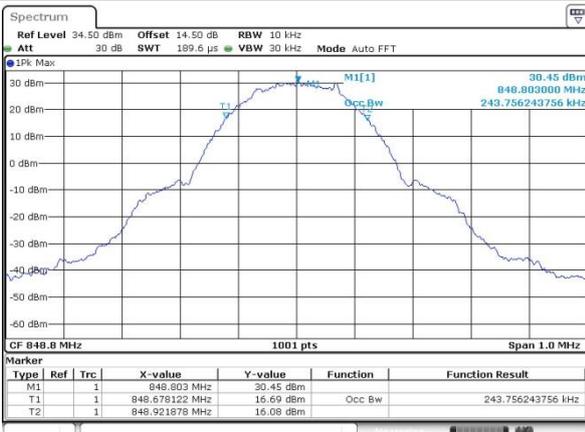
Date: 15 APR 2017 10:57:18

Middle Channel



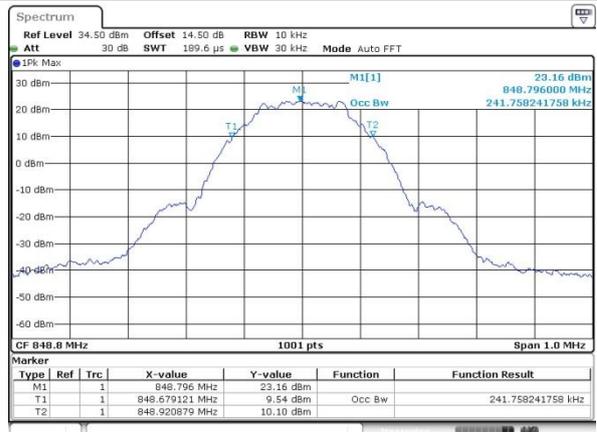
Date: 15 APR 2017 11:07:49

Highest Channel



Date: 15 APR 2017 10:57:44

Highest Channel



Date: 15 APR 2017 11:09:08



GSM1900 (GSM)

Lowest Channel



Date: 15 APR 2017 11:33:16

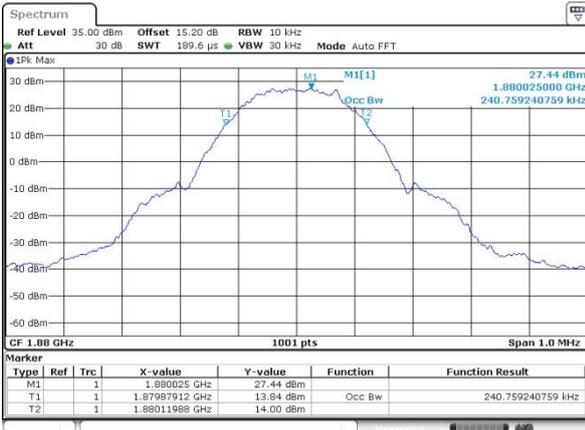
GSM1900 (EDGE class 8)

Lowest Channel



Date: 15 APR 2017 11:51:05

Middle Channel



Date: 15 APR 2017 11:33:45

Middle Channel



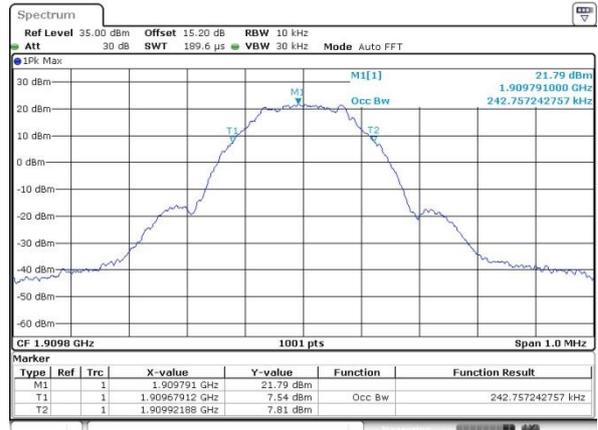
Date: 15 APR 2017 11:51:36

Highest Channel



Date: 15 APR 2017 11:34:13

Highest Channel

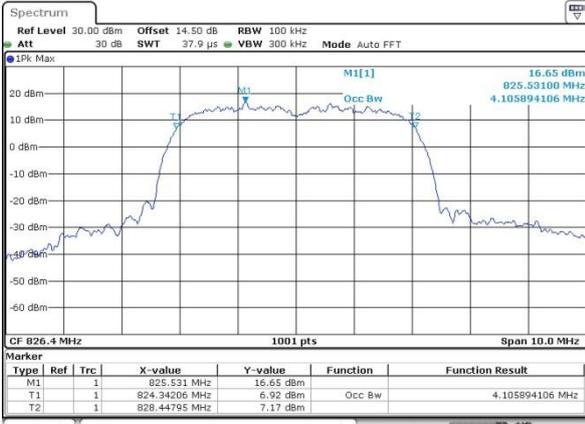


Date: 15 APR 2017 11:52:15



WCDMA Band V (RMC 12.2Kbps)

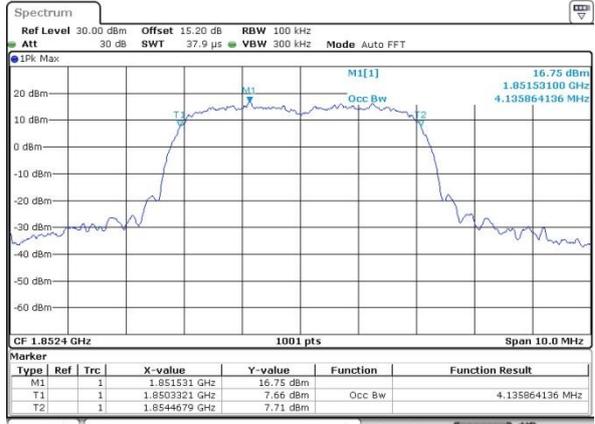
Lowest Channel



Date: 15 APR 2017 14:03:38

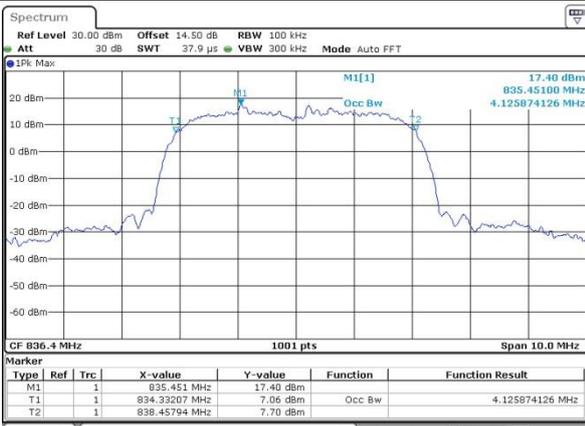
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



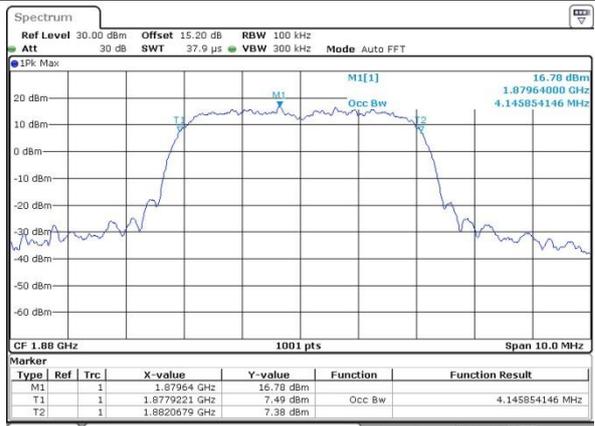
Date: 15 APR 2017 14:27:07

Middle Channel



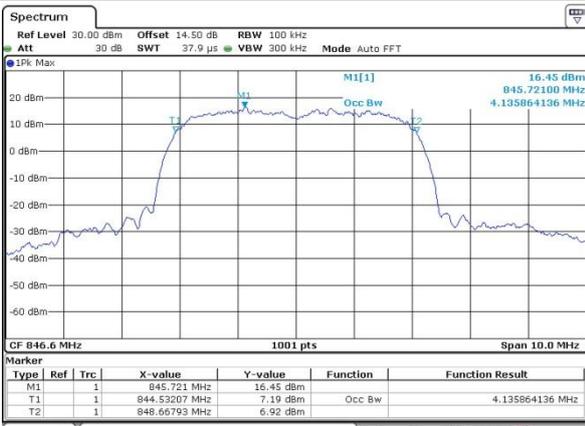
Date: 15 APR 2017 14:04:06

Middle Channel



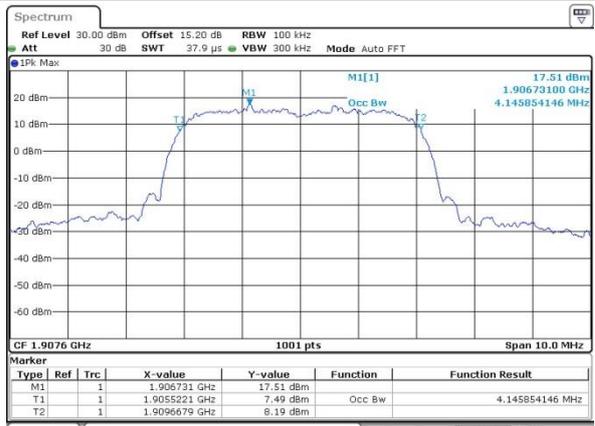
Date: 15 APR 2017 14:27:36

Highest Channel



Date: 15 APR 2017 14:08:53

Highest Channel

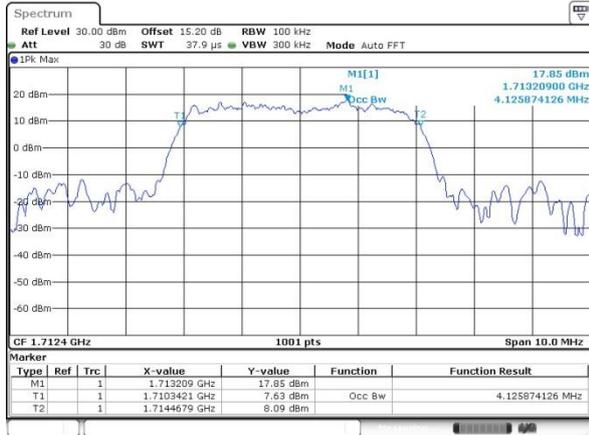


Date: 15 APR 2017 14:28:04



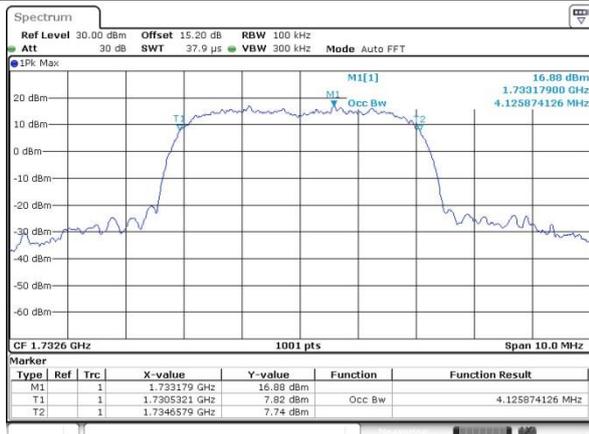
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



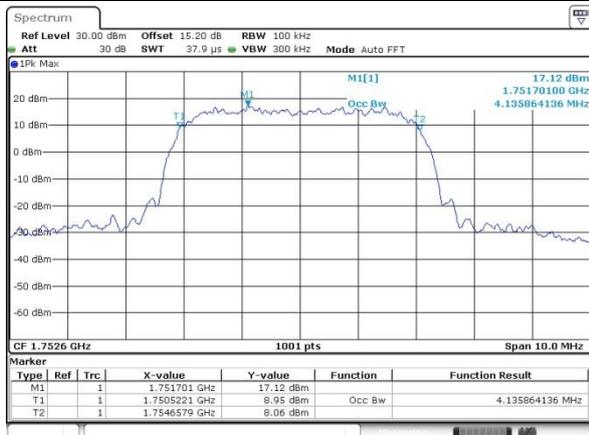
Date: 15 APR 2017 14:50:05

Middle Channel



Date: 15 APR 2017 14:50:33

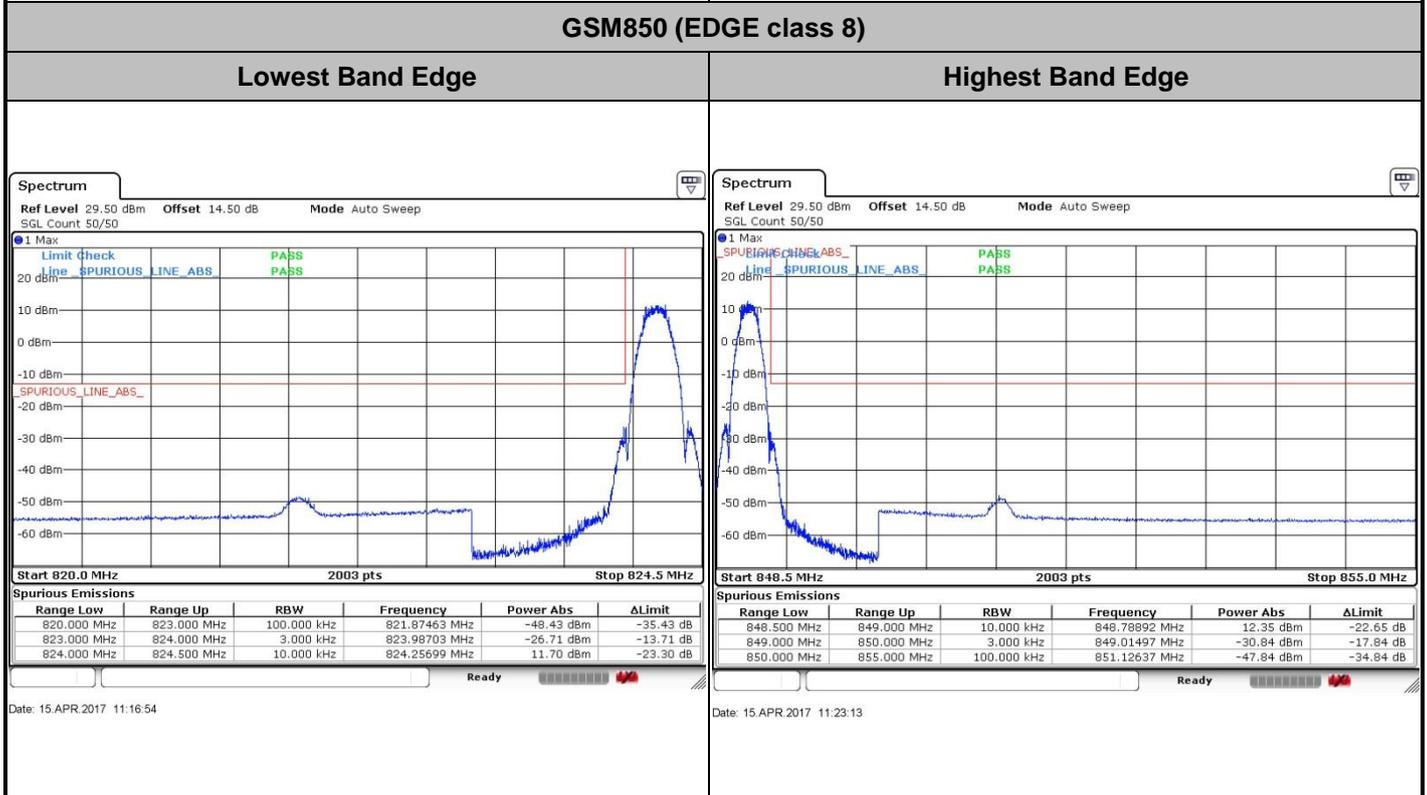
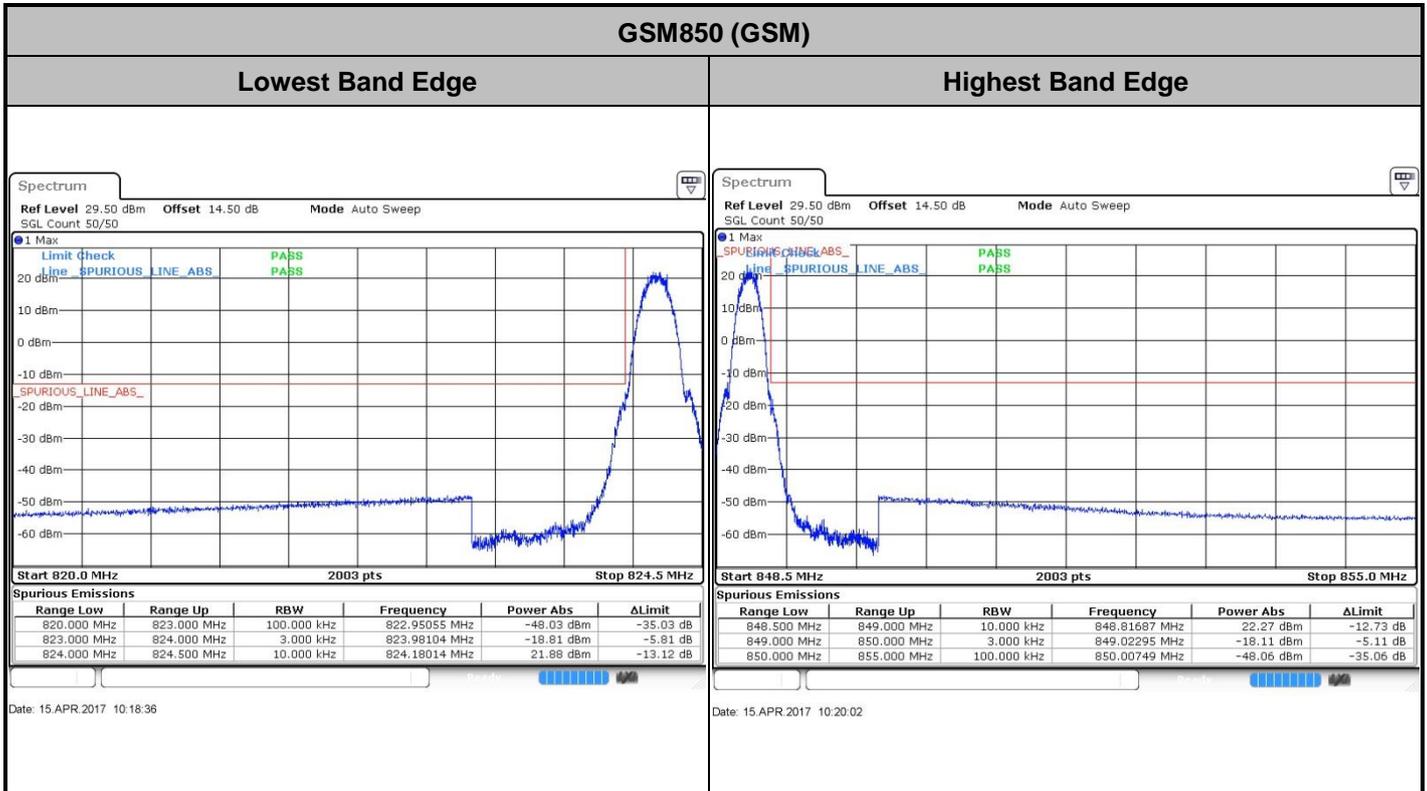
Highest Channel



Date: 15 APR 2017 14:51:02



Conducted Band Edge

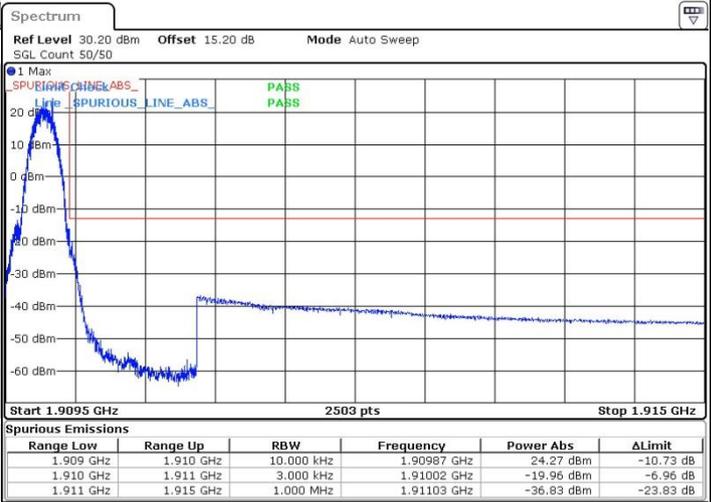
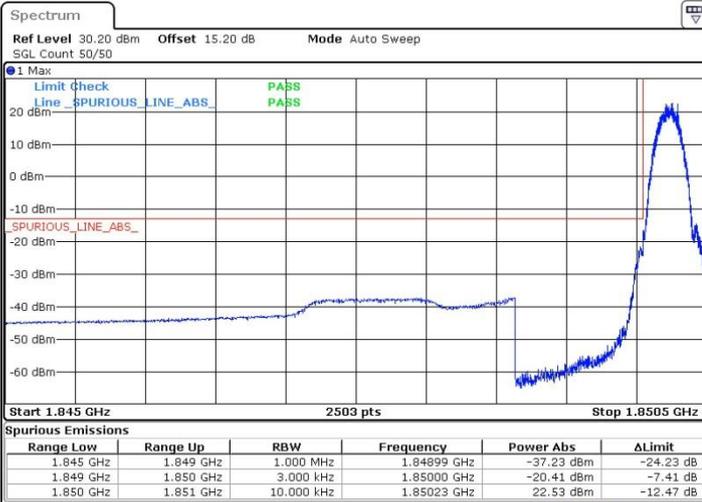




GSM1900 (GSM)

Lowest Band Edge

Highest Band Edge



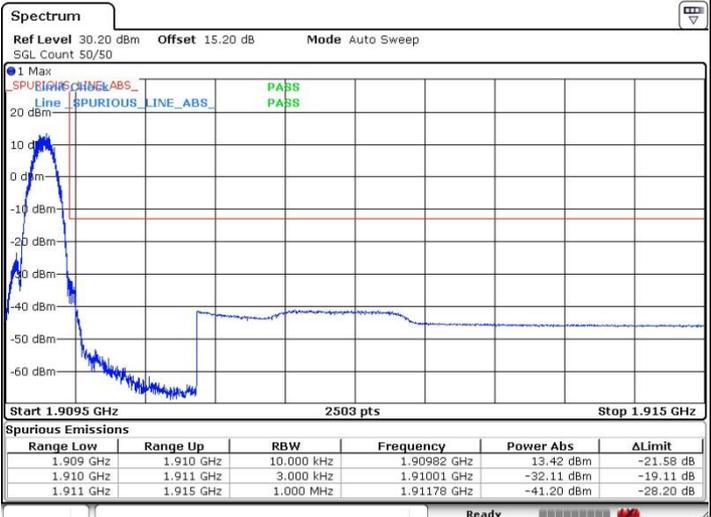
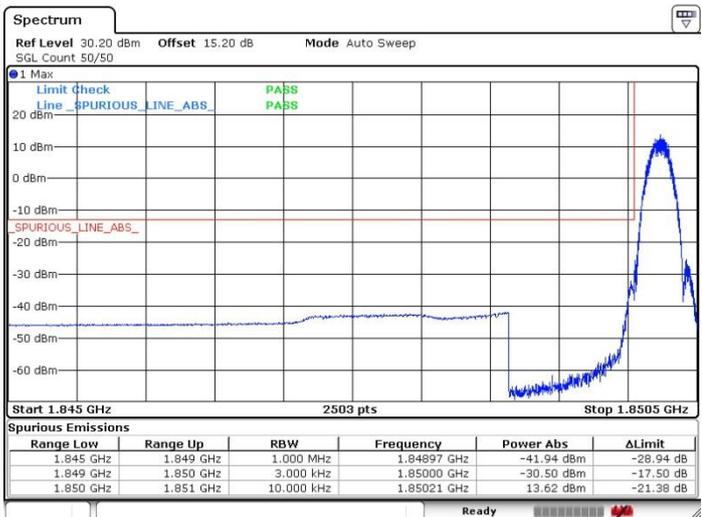
Date: 15 APR 2017 11:35:55

Date: 15 APR 2017 11:37:22

GSM1900 (EDGE class 8)

Lowest Band Edge

Highest Band Edge



Date: 15 APR 2017 12:00:30

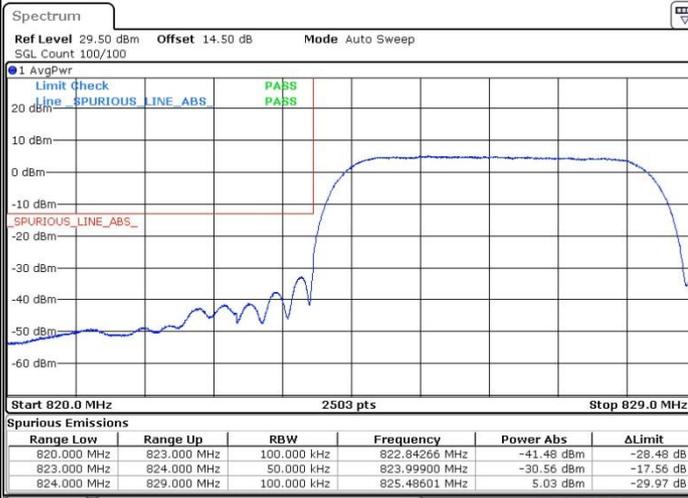
Date: 15 APR 2017 12:28:42



WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 15 APR 2017 14:11:50

Date: 15 APR 2017 14:14:31

WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 15 APR 2017 14:30:54

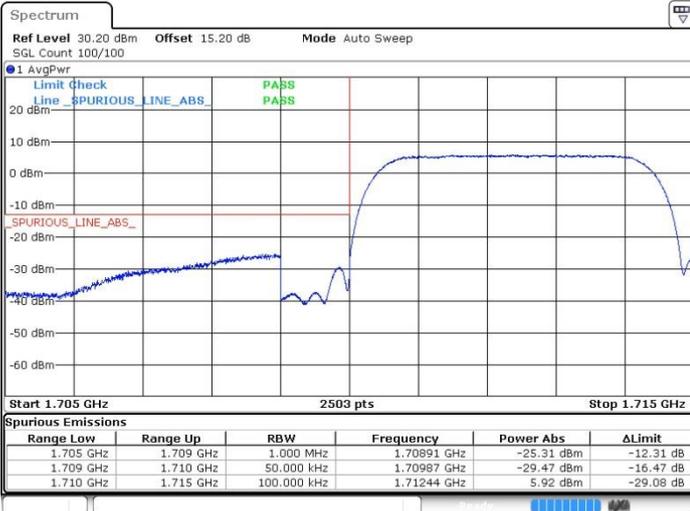
Date: 15 APR 2017 14:33:36



WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



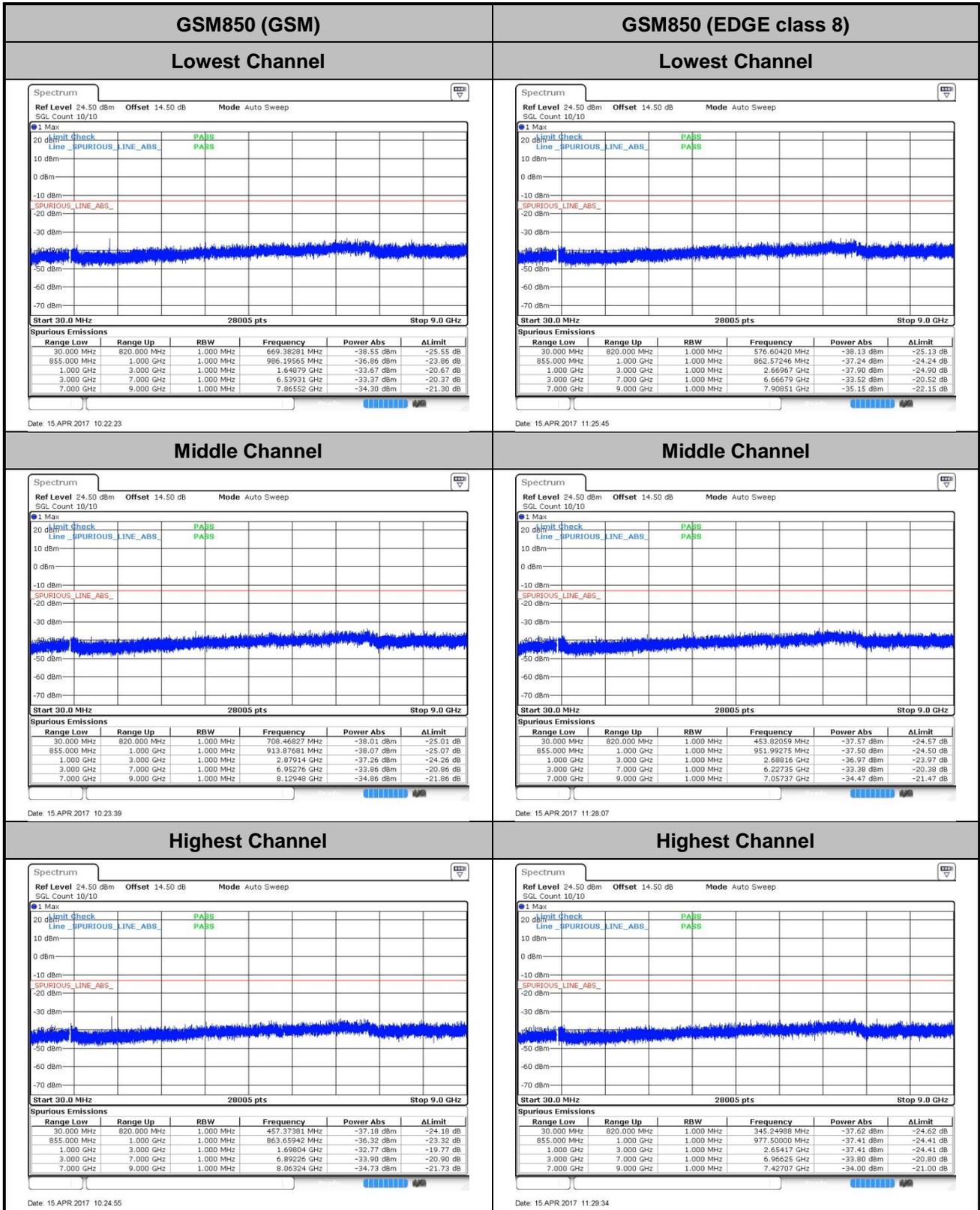
Date: 15 APR 2017 14:53:56

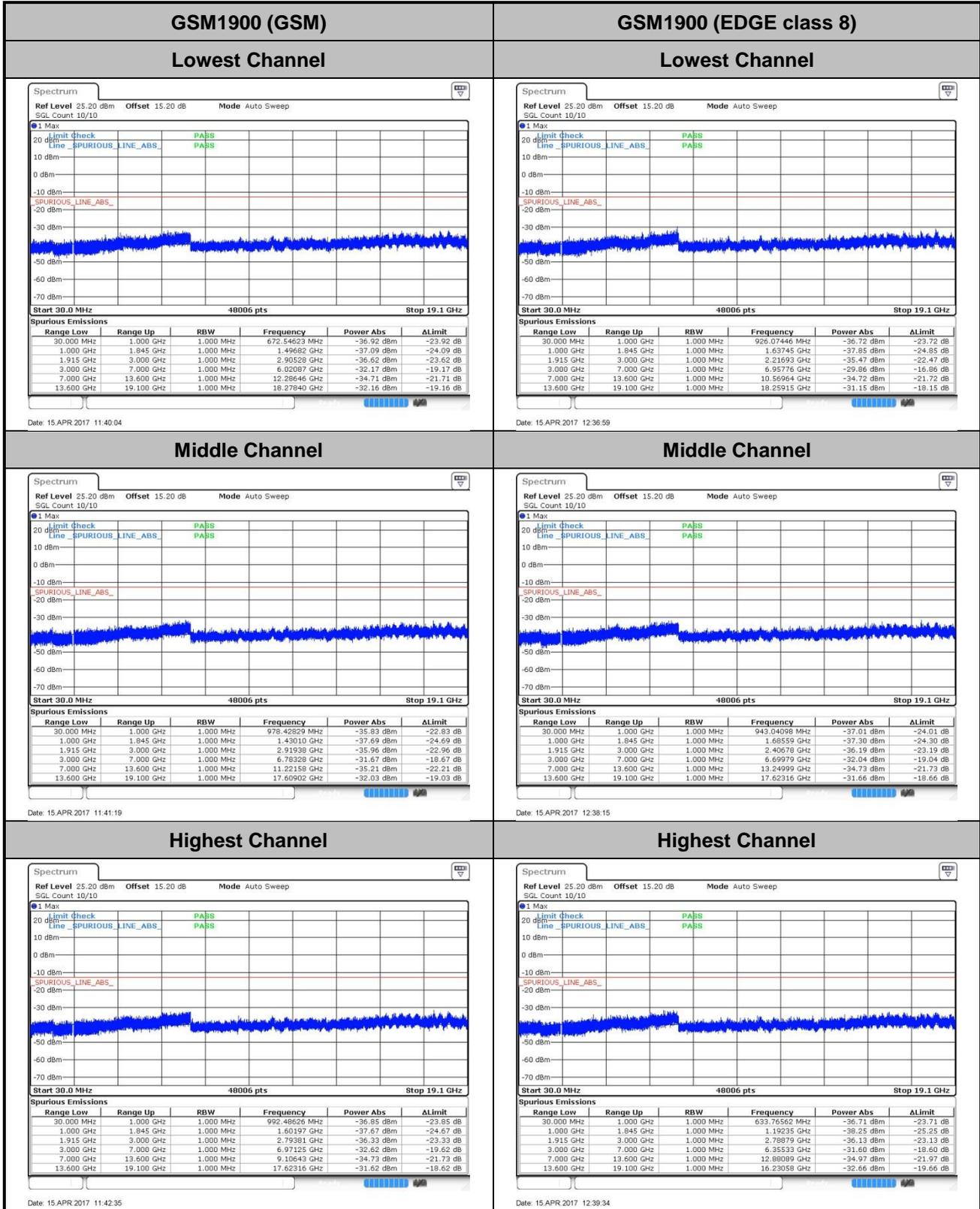


Date: 15 APR 2017 14:56:38



Conducted Spurious Emission

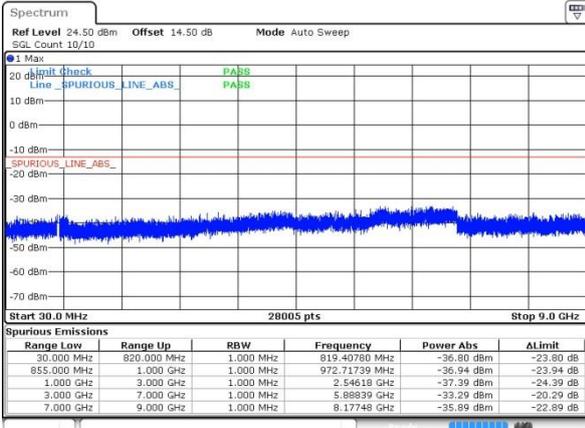






WCDMA Band V (RMC 12.2Kbps)

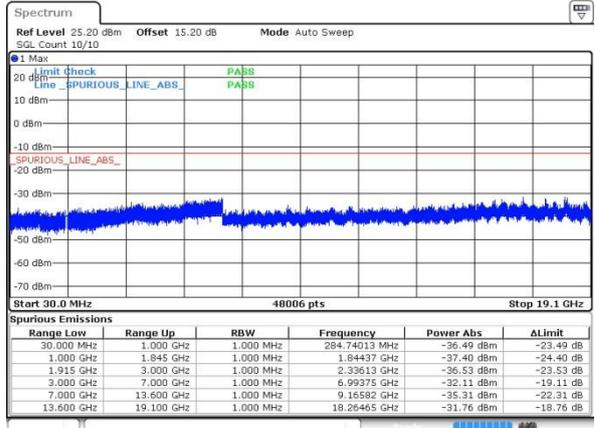
Lowest Channel



Date: 15 APR 2017 14:16:15

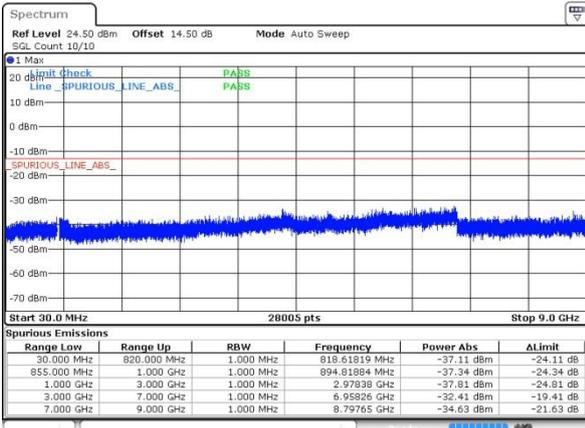
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



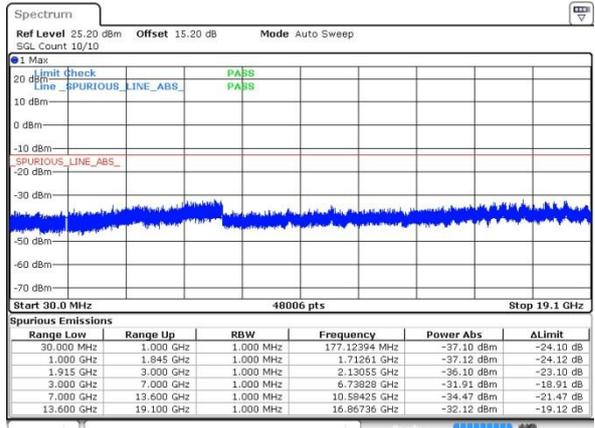
Date: 15 APR 2017 14:37:33

Middle Channel



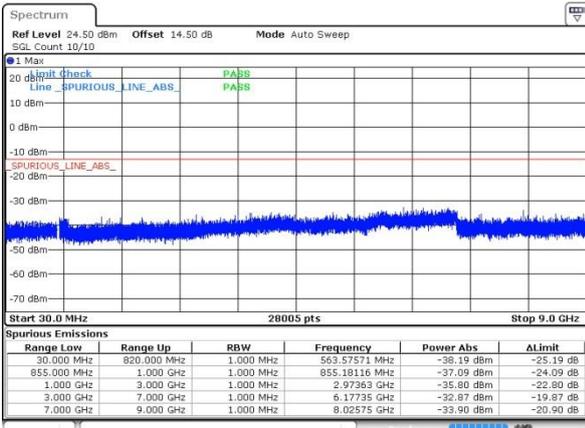
Date: 15 APR 2017 14:17:30

Middle Channel



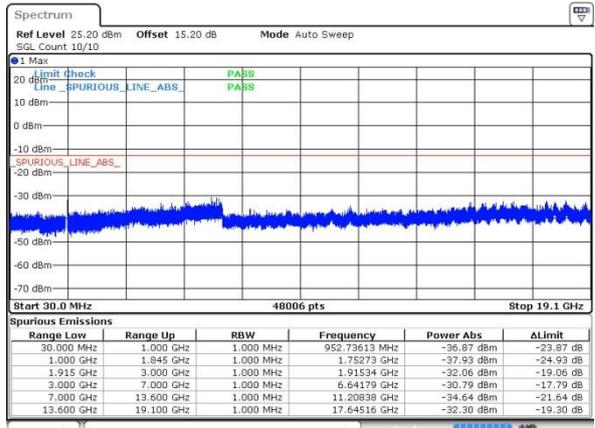
Date: 15 APR 2017 14:38:48

Highest Channel



Date: 15 APR 2017 14:18:45

Highest Channel

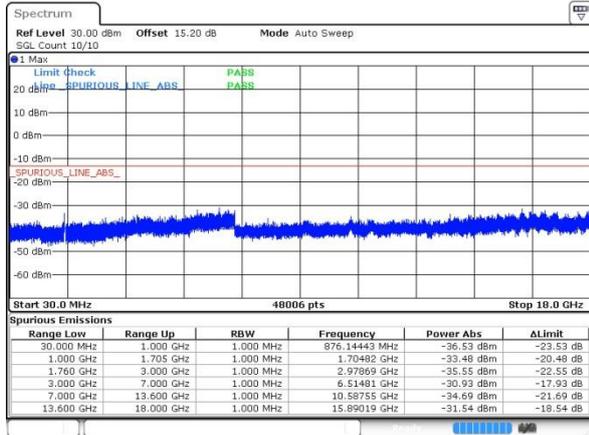


Date: 15 APR 2017 14:40:04



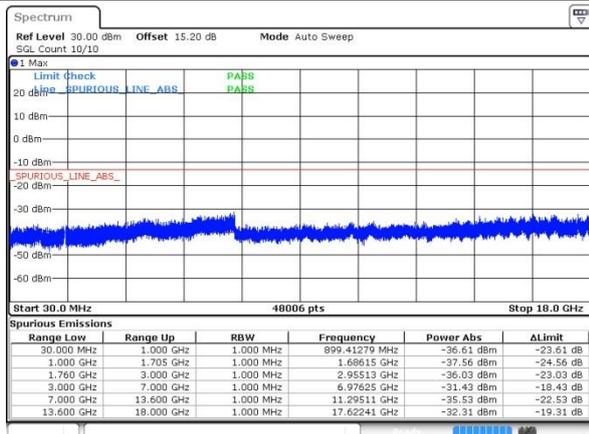
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



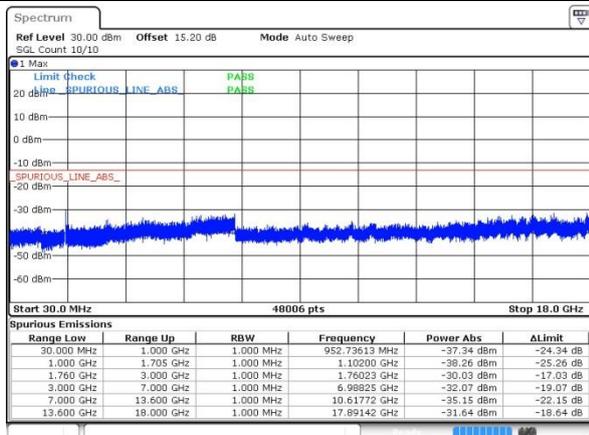
Date: 15 APR 2017 14:58:25

Middle Channel



Date: 15 APR 2017 14:59:41

Highest Channel



Date: 15 APR 2017 15:00:56



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	0.0036	0.0024	PASS
40	Normal Voltage	0.0024	0.0143	
30	Normal Voltage	0.0048	0.0012	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0060	0.0108	
0	Normal Voltage	0.0096	0.0096	
-10	Normal Voltage	0.0024	0.0048	
-20	Normal Voltage	0.0143	0.0132	
-30	Normal Voltage	0.0012	0.0084	
20	Maximum Voltage	0.0203	0.0108	
20	Normal Voltage	0.0036	0.0155	
20	Battery End Point	0.0048	0.0000	

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

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0053	0.0021	PASS
40	Normal Voltage	0.0074	0.0011	
30	Normal Voltage	0.0032	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0043	0.0011	
0	Normal Voltage	0.0016	0.0016	
-10	Normal Voltage	0.0064	0.0191	
-20	Normal Voltage	0.0037	0.0021	
-30	Normal Voltage	0.0101	0.0005	
20	Maximum Voltage	0.0080	0.0005	
20	Normal Voltage	0.0053	0.0037	
20	Battery End Point	0.0032	0.0016	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 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	0.0024	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0012	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0096	
0	Normal Voltage	0.0143	
-10	Normal Voltage	0.0084	
-20	Normal Voltage	0.0036	
-30	Normal Voltage	0.0060	
20	Maximum Voltage	0.0191	
20	Normal Voltage	0.0167	
20	Battery End Point	0.0084	

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

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0043	PASS
40	Normal Voltage	0.0037	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0032	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0011	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0101	
20	Normal Voltage	0.0011	
20	Battery End Point	0.0128	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 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 IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0040	
-20	Normal Voltage	0.0058	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0063	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0069	

Note:

1. Normal Voltage = 3.85V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage =4.4 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	-71.22	-13	-58.22	-69.73	-73.86	1.01	5.80	H
	2510	-63.73	-13	-50.73	-72.31	-67.30	1.18	6.90	H
	3345	-65.91	-13	-52.91	-75.35	-69.48	1.78	7.50	H
	1672	-67.69	-13	-54.69	-66.81	-70.33	1.01	5.80	V
	2509.2	-63.29	-13	-50.29	-72.43	-66.86	1.18	6.90	V
	3345	-67.37	-13	-54.37	-75.69	-70.94	1.78	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-71.70	-13	-58.70	-70.21	-74.34	1.01	5.80	H
	2509.2	-64.06	-13	-51.06	-72.64	-67.63	1.18	6.90	H
	3345	-66.08	-13	-53.08	-75.52	-69.65	1.78	7.50	H
	1672	-66.92	-13	-53.92	-66.04	-69.56	1.01	5.80	V
	2509.2	-62.63	-13	-49.63	-71.77	-66.20	1.18	6.90	V
	3345	-67.50	-13	-54.50	-75.82	-71.07	1.78	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-62.77	-13	-49.77	-71.16	-68.25	1.62	7.10	H
	5640	-56.89	-13	-43.89	-70.08	-65.43	1.86	10.40	H
	7520	-58.39	-13	-45.39	-76.70	-67.94	2.40	11.94	H
	3759	-62.32	-13	-49.32	-71.91	-67.80	1.62	7.10	V
	5640	-60.71	-13	-47.71	-72.79	-69.25	1.86	10.40	V
	7520	-60.60	-13	-47.60	-76.72	-70.15	2.40	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3760	-66.65	-13	-53.65	-75.04	-72.13	1.62	7.10	H
	5640	-62.46	-13	-49.46	-75.65	-71.00	1.86	10.40	H
	7520	-58.10	-13	-45.10	-76.41	-67.65	2.40	11.94	H
	3759	-64.03	-13	-51.03	-73.62	-69.51	1.62	7.10	V
	5640	-61.35	-13	-48.35	-73.43	-69.89	1.86	10.40	V
	7520	-59.70	-13	-46.70	-75.82	-69.25	2.40	11.94	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	-72.26	-13	-59.26	-70.77	-74.90	1.01	5.80	H
	2510	-63.46	-13	-50.46	-72.04	-67.03	1.18	6.90	H
	3345	-66.12	-13	-53.12	-75.56	-69.69	1.78	7.50	H
	1672.8	-71.46	-13	-58.46	-70.58	-74.10	1.01	5.80	V
	2510	-62.52	-13	-49.52	-71.66	-66.09	1.18	6.90	V
	3345	-67.75	-13	-54.75	-76.07	-71.32	1.78	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-67.09	-13	-54.09	-75.48	-72.57	1.62	7.10	H
	5640	-62.62	-13	-49.62	-75.81	-71.16	1.86	10.40	H
	7520	-58.06	-13	-45.06	-76.37	-67.61	2.40	11.94	H
	3759	-66.25	-13	-53.25	-75.84	-71.73	1.62	7.10	V
	5640	-63.83	-13	-50.83	-75.91	-72.37	1.86	10.40	V
	7520	-60.53	-13	-47.53	-76.65	-70.08	2.40	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)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-62.83	-13	-49.83	-75.26	-68.99	1.43	7.59	H
	5197.8	-60.99	-13	-47.99	-75.83	-68.55	1.83	9.39	H
	6930	-56.95	-13	-43.95	-74.68	-66.54	2.08	11.67	H
	3465.2	-65.88	-13	-52.88	-75.66	-72.04	1.43	7.59	V
	5197.8	-61.24	-13	-48.24	-76.51	-68.80	1.83	9.39	V
	6930	-59.13	-13	-46.13	-76.01	-68.72	2.08	11.67	V

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