



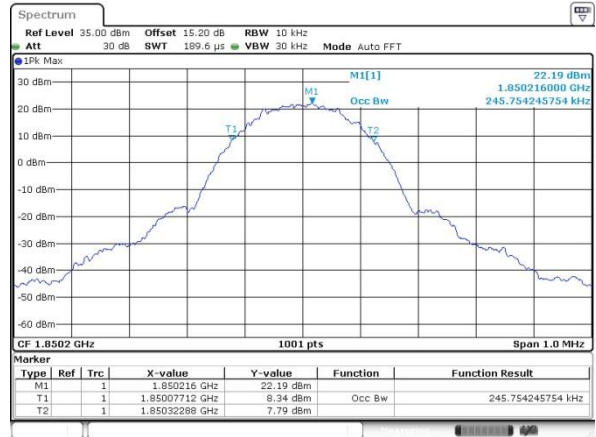
GSM1900 (GSM)

Lowest Channel

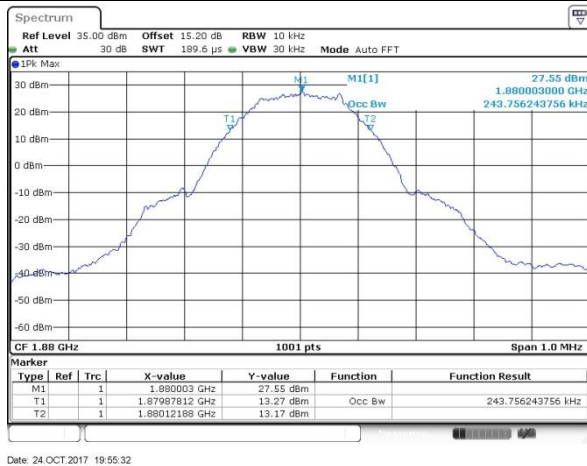


GSM1900 (EDGE class 8)

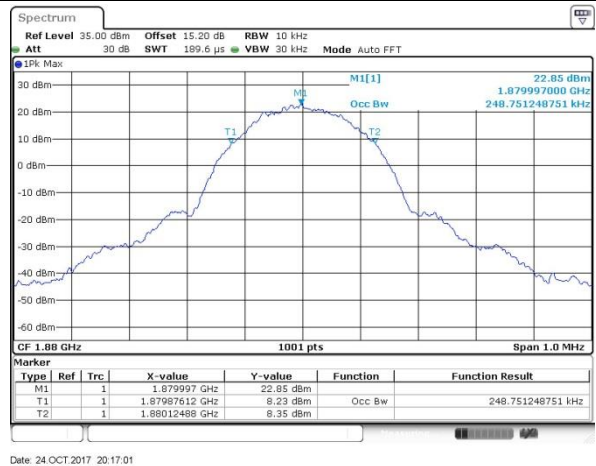
Lowest Channel



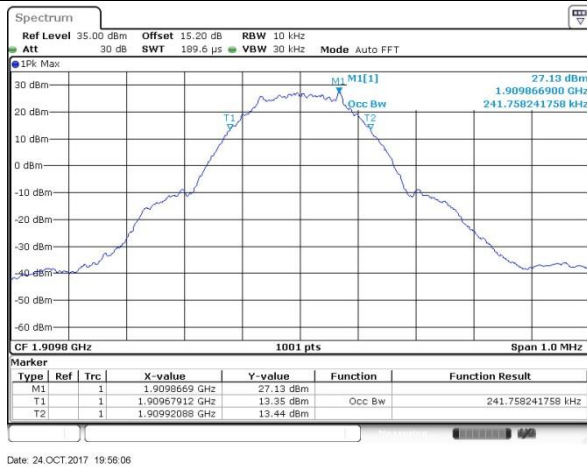
Middle Channel



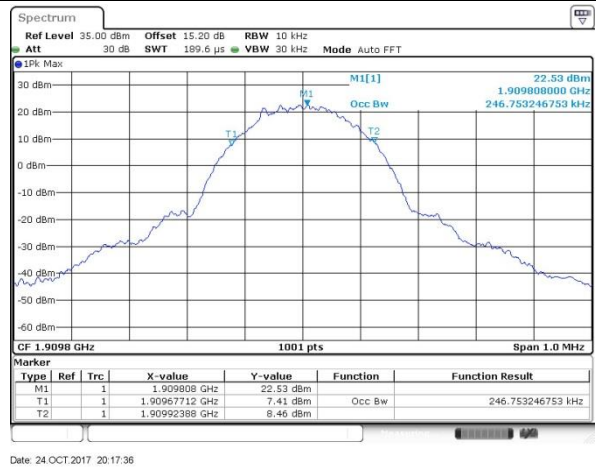
Middle Channel



Highest Channel



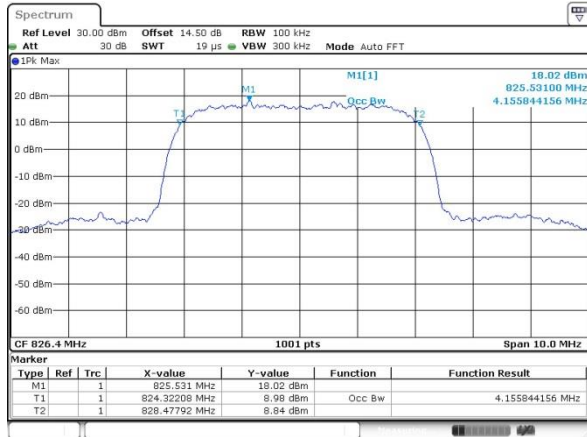
Highest Channel





WCDMA Band V (RMC 12.2Kbps)

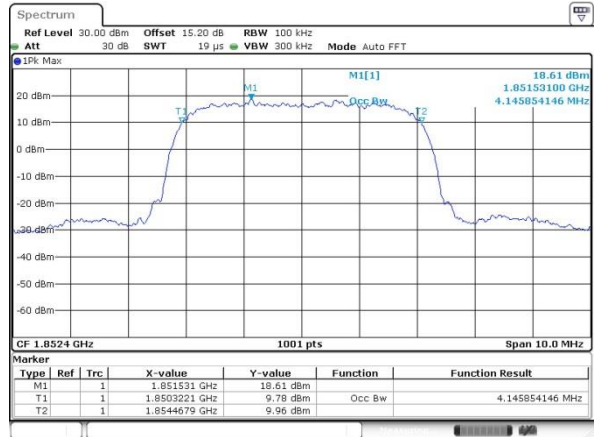
Lowest Channel



Date: 24.OCT.2017 21:03:29

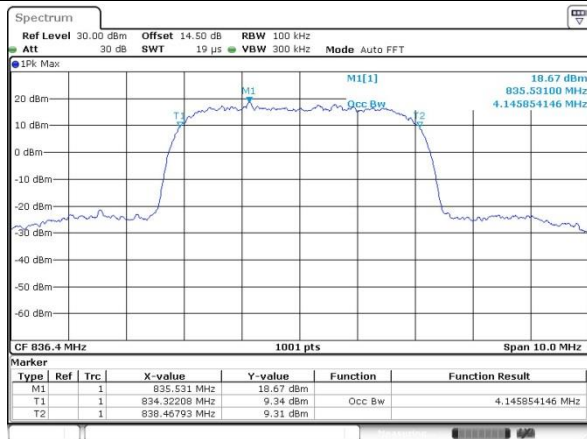
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



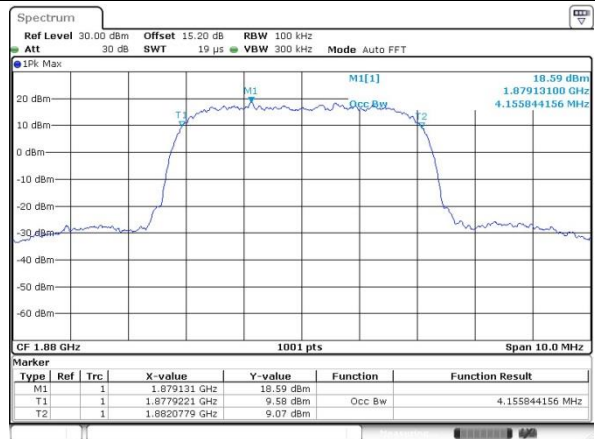
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Middle Channel



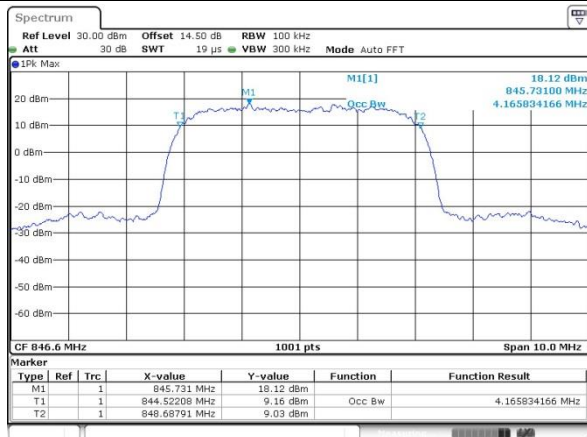
Date: 24.OCT.2017 21:04:11

Middle Channel



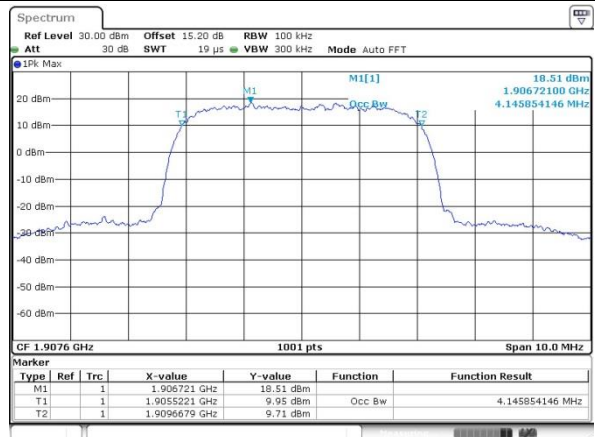
Date: 24.OCT.2017 20:38:32

Highest Channel



Date: 24.OCT.2017 21:04:53

Highest Channel

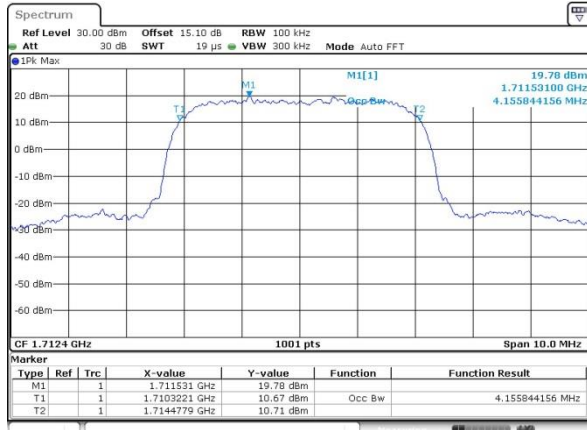


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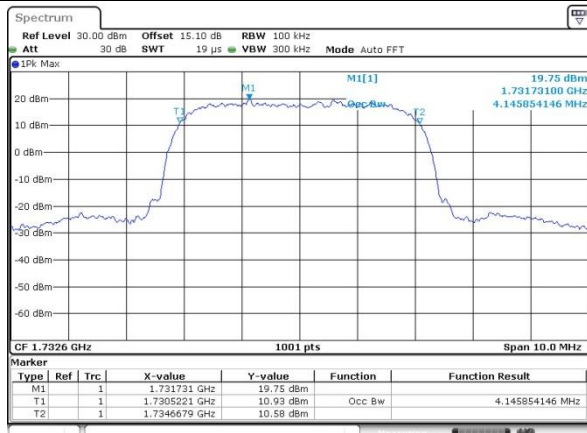


WCDMA Band IV (RMC 12.2Kbps)

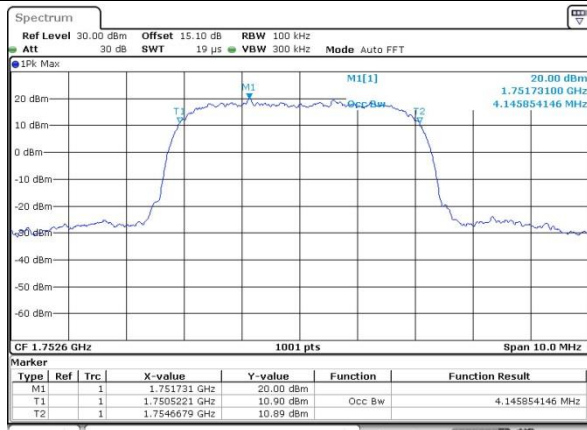
Lowest Channel

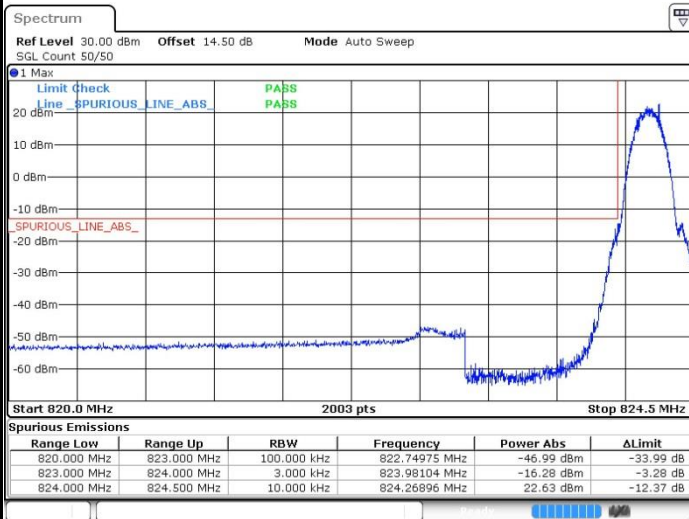
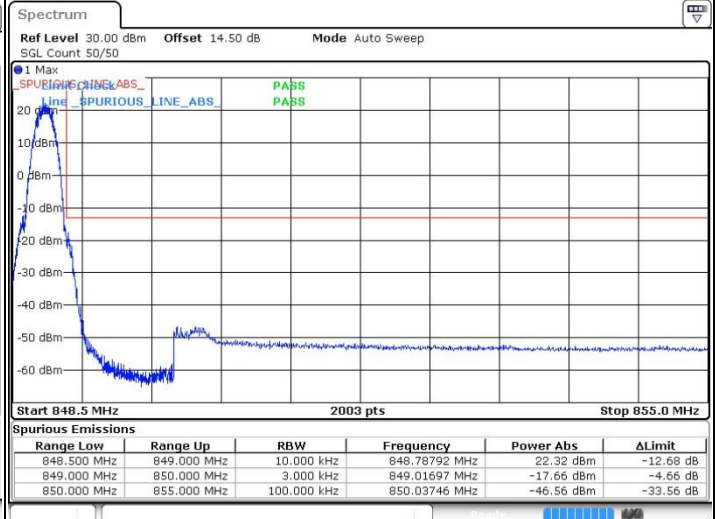
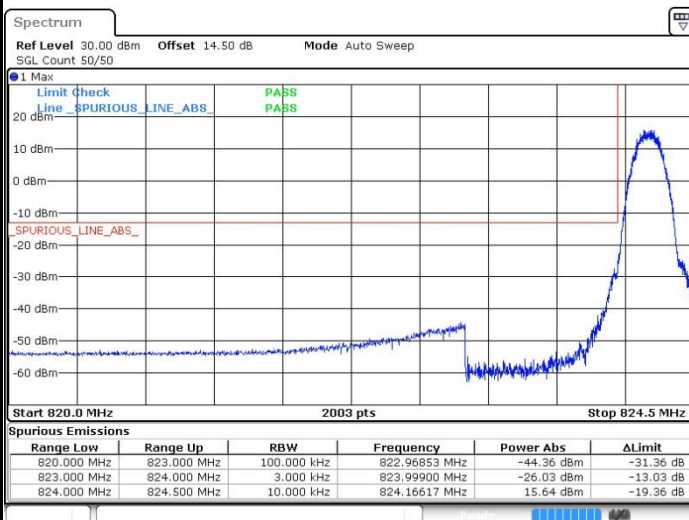
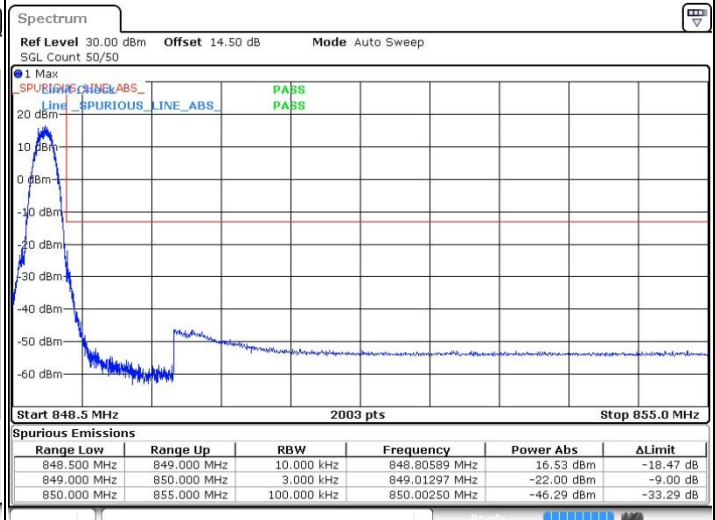


Middle Channel



Highest Channel

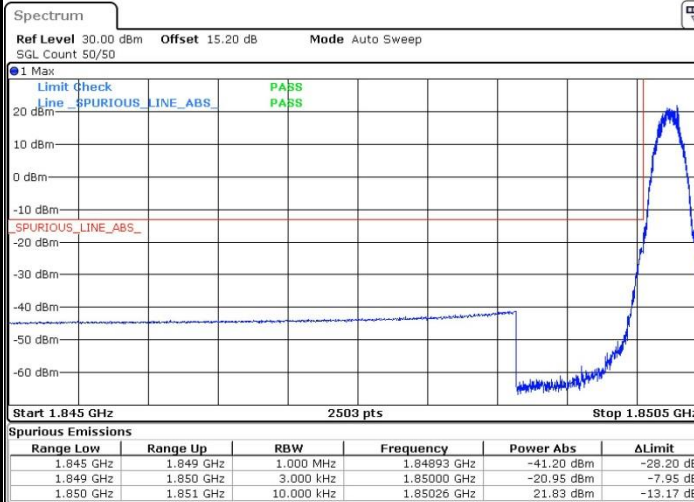


**Conducted Band Edge****GSM850 (GSM)****Lowest Band Edge****Highest Band Edge****GSM850 (EDGE class 8)****Lowest Band Edge****Highest Band Edge**

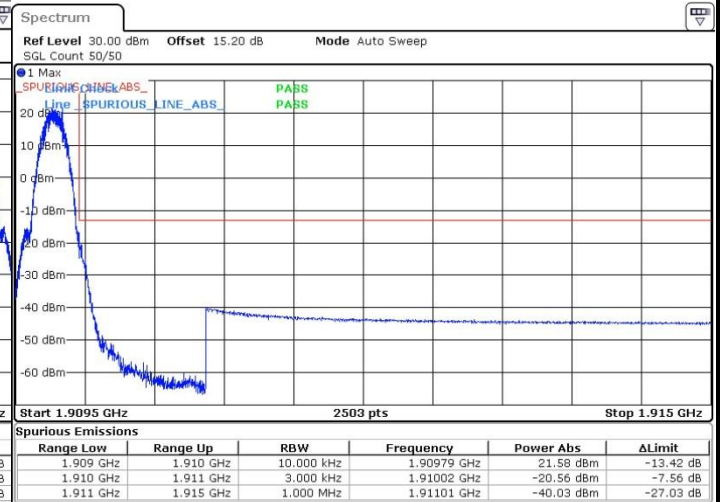


GSM1900 (GSM)

Lowest Band Edge

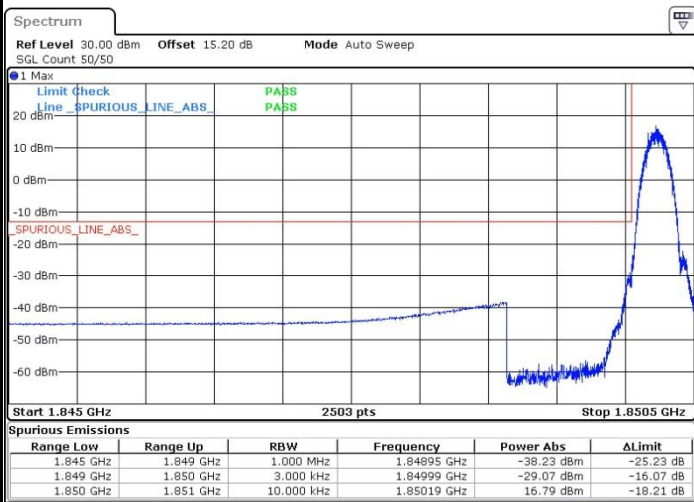


Highest Band Edge

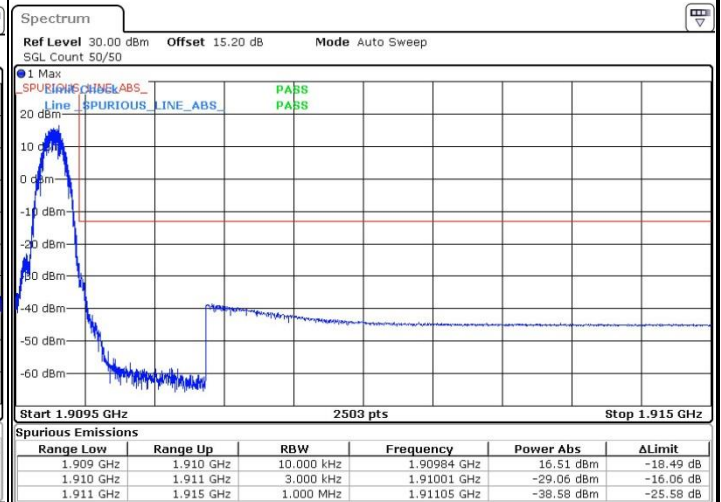


GSM1900 (EDGE class 8)

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



Date: 25.OCT.2017 09:12:51

Highest Band Edge



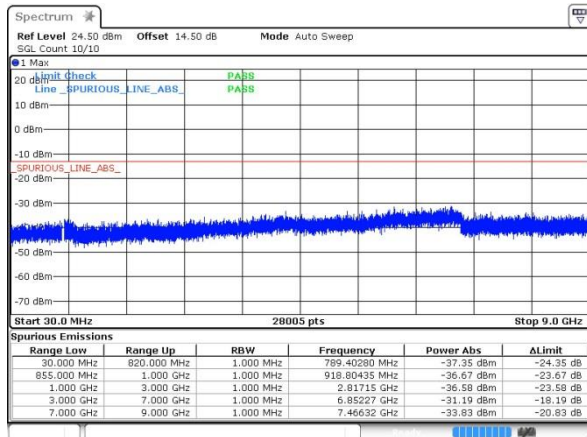
Date: 25.OCT.2017 09:15:39



Conducted Spurious Emission

GSM850 (GSM)

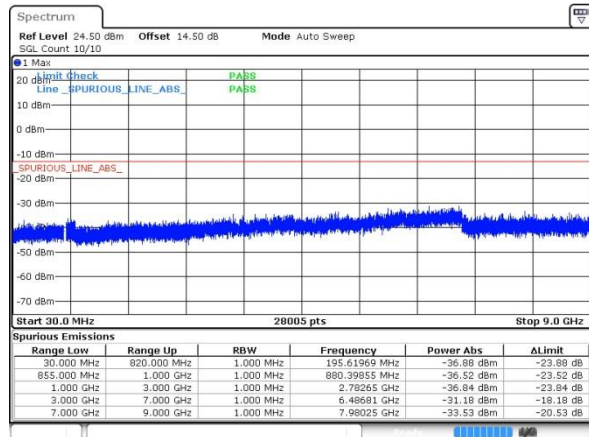
Lowest Channel



Date: 24 OCT 2017 19:03:02

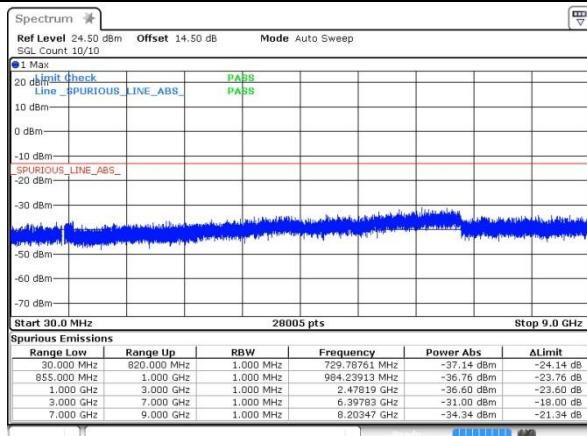
GSM850 (EDGE class 8)

Lowest Channel



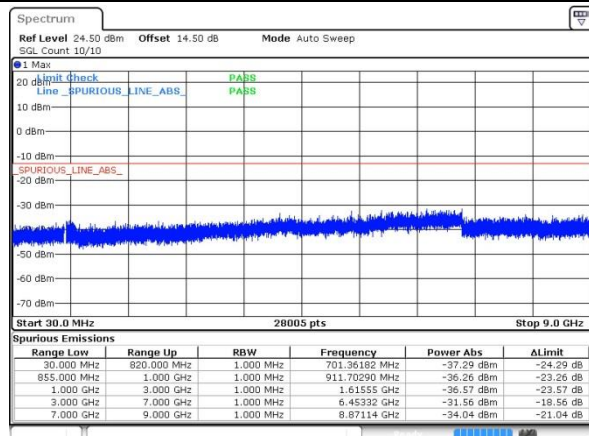
Date: 24 OCT 2017 19:34:47

Middle Channel



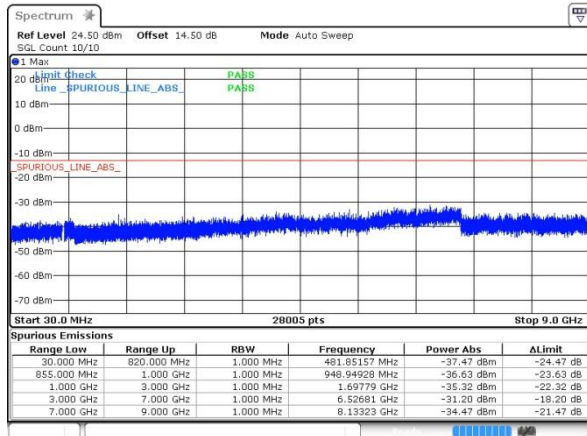
Date: 24 OCT 2017 19:04:25

Middle Channel



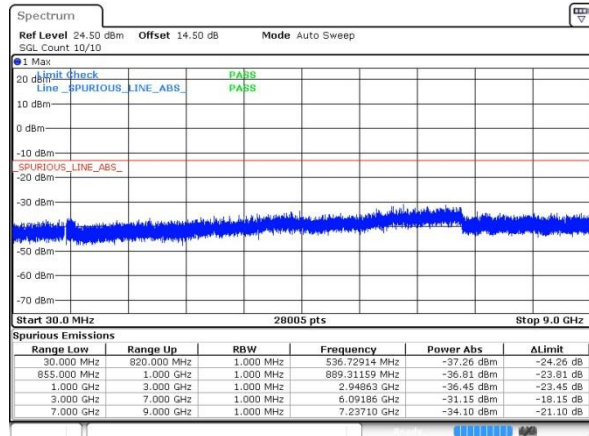
Date: 24 OCT 2017 19:36:22

Highest Channel



Date: 24 OCT 2017 19:06:11

Highest Channel

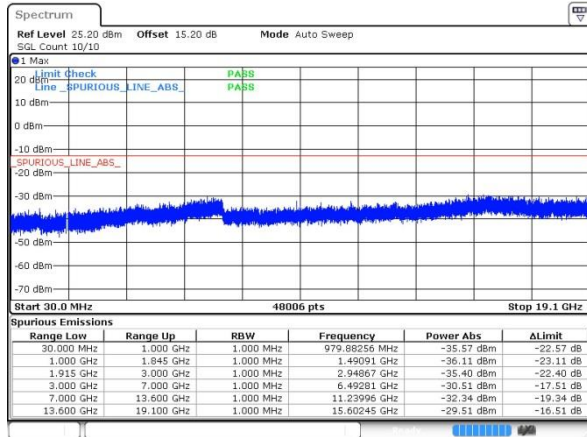


Date: 24 OCT 2017 19:38:30



GSM1900 (GSM)

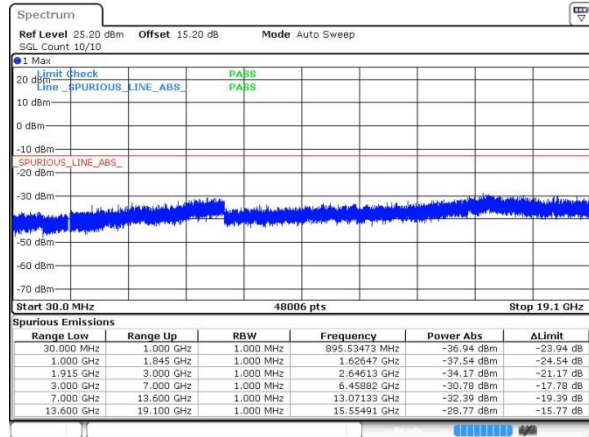
Lowest Channel



Date: 24.OCT.2017 20:01:43

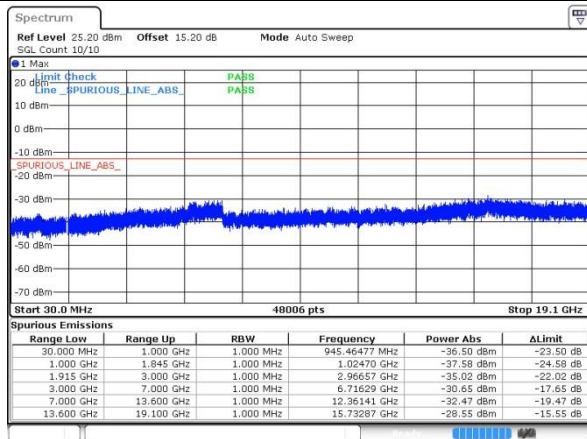
GSM1900 (EDGE class 8)

Lowest Channel

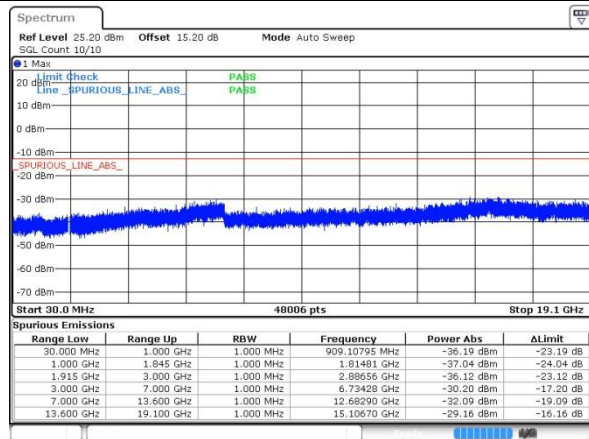


Date: 24.OCT.2017 20:22:53

Middle Channel

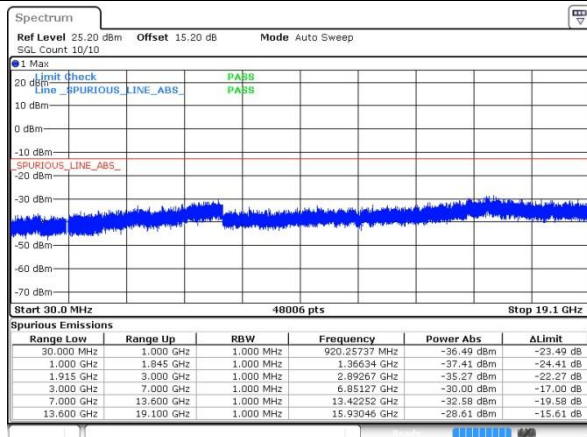


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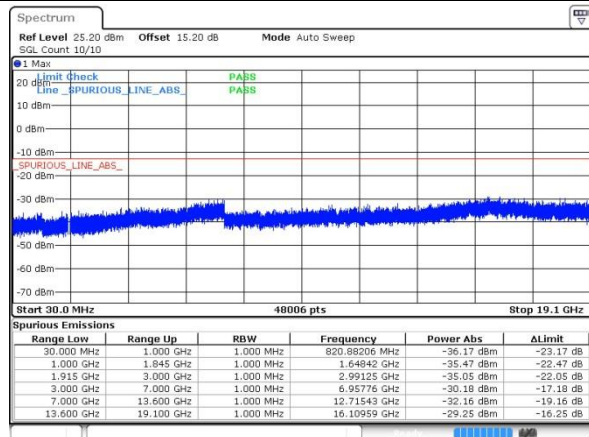


Date: 24.OCT.2017 20:24:16

Highest Channel



Date: 24.OCT.2017 20:04:28

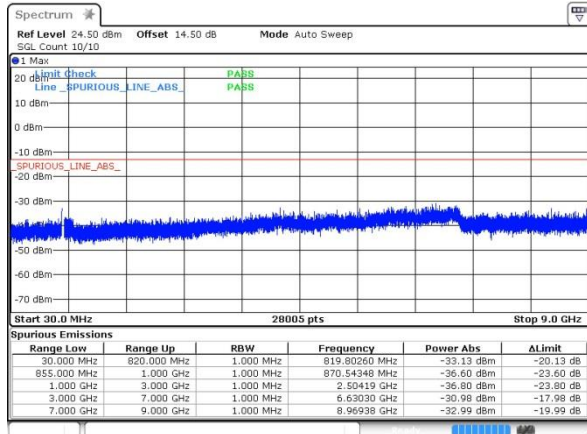


Date: 24.OCT.2017 20:25:40



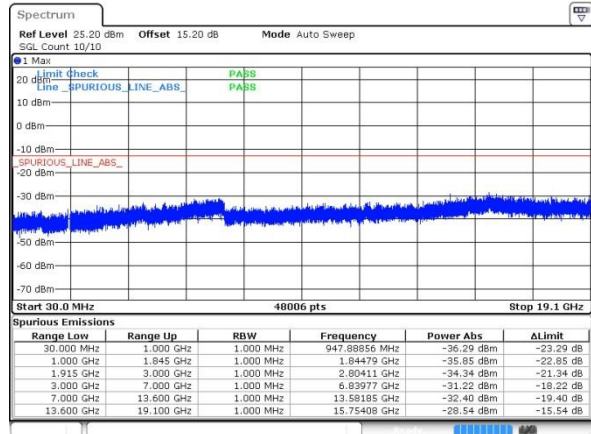
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

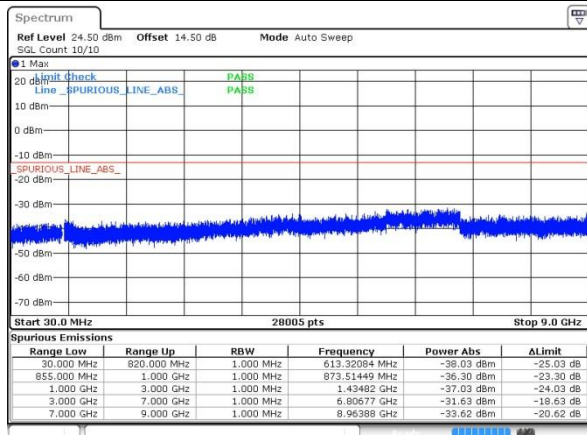


WCDMA Band II (RMC 12.2Kbps)

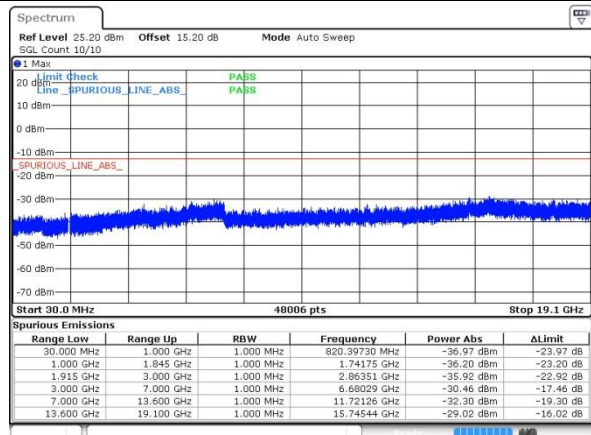
Lowest Channel



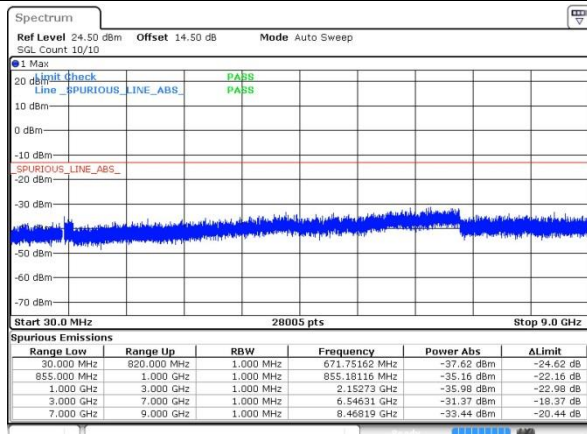
Middle Channel



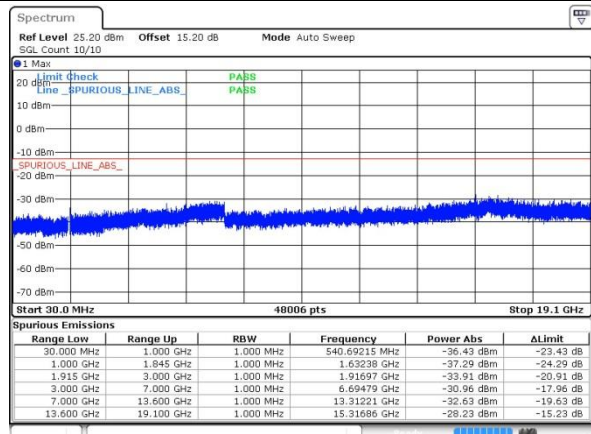
Middle Channel



Highest Channel



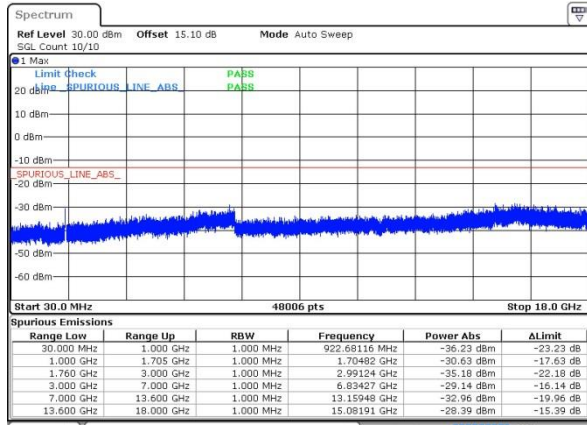
Highest Channel





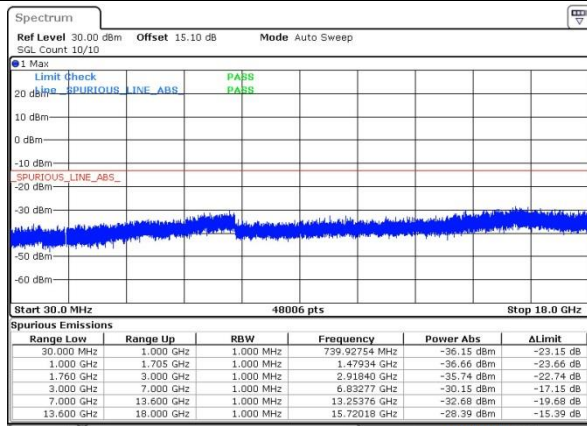
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



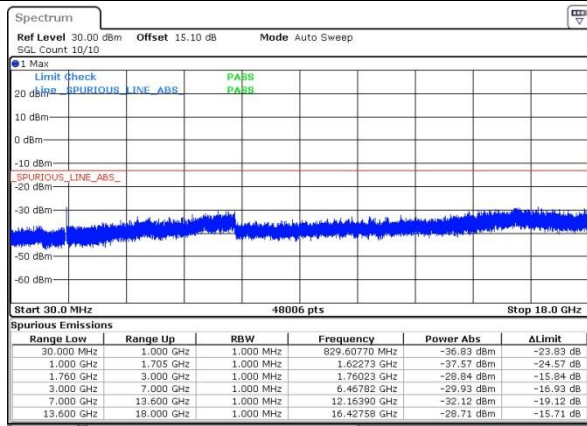
Date: 25.OCT.2017 09:17:02

Middle Channel



Date: 25.OCT.2017 09:18:22

Highest Channel



Date: 25.OCT.2017 09:19:41

**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	0.0275	0.0167	PASS
40	Normal Voltage	0.0060	0.0012	
30	Normal Voltage	0.0430	0.0239	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0335	0.0251	
0	Normal Voltage	0.0239	0.0060	
-10	Normal Voltage	0.0383	0.0299	
-20	Normal Voltage	0.0048	0.0359	
-30	Normal Voltage	0.0155	0.0096	
20	Maximum Voltage	0.0323	0.0084	
20	Normal Voltage	0.0024	0.0132	
20	Battery End Point	0.0084	0.0335	

Note: Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.35 V. ; Maximum Voltage =4.35 V

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0090	0.0048	PASS
40	Normal Voltage	0.0005	0.0165	
30	Normal Voltage	0.0133	0.0128	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0106	0.0074	
0	Normal Voltage	0.0032	0.0181	
-10	Normal Voltage	0.0112	0.0032	
-20	Normal Voltage	0.0059	0.0112	
-30	Normal Voltage	0.0138	0.0005	
20	Maximum Voltage	0.0043	0.0037	
20	Normal Voltage	0.0090	0.0154	
20	Battery End Point	0.0016	0.0138	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.35 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	0.0096	PASS
40	Normal Voltage	0.0299	
30	Normal Voltage	0.0227	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0323	
0	Normal Voltage	0.0096	
-10	Normal Voltage	0.0275	
-20	Normal Voltage	0.0383	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0215	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0191	

Note: Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.35 V. ; Maximum Voltage =4.35 V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0032	PASS
40	Normal Voltage	0.0059	
30	Normal Voltage	0.0101	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0059	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0128	
-30	Normal Voltage	0.0069	
20	Maximum Voltage	0.0011	
20	Normal Voltage	0.0112	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.35 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 IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0096	PASS
40	Normal Voltage	0.0299	
30	Normal Voltage	0.0227	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0323	
0	Normal Voltage	0.0096	
-10	Normal Voltage	0.0275	
-20	Normal Voltage	0.0383	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0215	
20	Normal Voltage	0.0024	
20	Battery End Point	0.0191	

Note:

1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.35 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)
Lowest	1648	-46.28	-13	-33.28	-52.18	-48.60	1.33	5.80	H
	2472	-41.74	-13	-28.74	-53.89	-44.91	1.58	6.90	H
	3297	-56.39	-13	-43.39	-65.60	-59.89	1.85	7.50	H
	4122	-54.94	-13	-41.94	-64.86	-57.98	2.11	7.30	H
	1648	-43.01	-13	-30.01	-49.14	-45.33	1.33	5.80	V
	2472	-39.95	-13	-26.95	-51.63	-43.12	1.58	6.90	V
	3297	-61.25	-13	-48.25	-70.27	-64.75	1.85	7.50	V
	4122	-59.20	-13	-46.20	-67.73	-62.24	2.11	7.30	V
Middle	1674	-47.18	-13	-34.18	-53.00	-49.50	1.33	5.80	H
	2510	-39.20	-13	-26.20	-51.66	-42.37	1.58	6.90	H
	3345	-58.72	-13	-45.72	-67.93	-62.22	1.85	7.50	H
	4182	-56.21	-13	-43.21	-66.13	-59.25	2.11	7.30	H
	1674	-42.20	-13	-29.20	-48.35	-44.52	1.33	5.80	V
	2510	-34.56	-13	-21.56	-46.72	-37.73	1.58	6.90	V
	3345	-56.71	-13	-43.71	-65.73	-60.21	1.85	7.50	V
	4182	-60.49	-13	-47.49	-69.02	-63.53	2.11	7.30	V
Highest	1698	-39.20	-13	-26.20	-45.65	-41.52	1.33	5.80	H
	2546	-38.44	-13	-25.44	-50.96	-41.61	1.58	6.90	H
	3396	-55.59	-13	-42.59	-64.80	-59.09	1.85	7.50	H
	4245	-49.66	-13	-36.66	-60.11	-52.70	2.11	7.30	H
	1698	-42.98	-13	-29.98	-49.11	-45.30	1.33	5.80	V
	2546	-38.02	-13	-25.02	-49.91	-41.19	1.58	6.90	V
	3396	-54.49	-13	-41.49	-63.51	-57.99	1.85	7.50	V
	4245	-54.53	-13	-41.53	-63.06	-57.57	2.11	7.30	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)
Lowest	1648	-46.79	-13	-33.79	-52.66	-49.11	1.33	5.80	H
	2472	-40.90	-13	-27.90	-53.22	-44.07	1.58	6.90	H
	3297	-61.62	-13	-48.62	-70.83	-65.12	1.85	7.50	H
	1648	-49.97	-13	-36.97	-55.19	-52.29	1.33	5.80	V
	2472	-36.96	-13	-23.96	-48.99	-40.13	1.58	6.90	V
	3297	-61.76	-13	-48.76	-70.78	-65.26	1.85	7.50	V
Middle	1674	-43.72	-13	-30.72	-49.94	-46.04	1.33	5.80	H
	2510	-37.74	-13	-24.74	-50.34	-40.91	1.58	6.90	H
	3345	-62.19	-13	-49.19	-71.40	-65.69	1.85	7.50	H
	1672	-47.21	-13	-34.21	-53.00	-49.53	1.33	5.80	V
	2510	-34.78	-13	-21.78	-46.89	-37.95	1.58	6.90	V
	3345	-62.69	-13	-49.69	-71.71	-66.19	1.85	7.50	V
Highest	1698	-43.16	-13	-30.16	-49.41	-45.48	1.33	5.80	H
	2546	-41.23	-13	-28.23	-53.49	-44.40	1.58	6.90	H
	3396	-61.96	-13	-48.96	-71.17	-65.46	1.85	7.50	H
	1698	-45.93	-13	-32.93	-51.86	-48.25	1.33	5.80	V
	2546	-42.48	-13	-29.48	-53.71	-45.65	1.58	6.90	V
	3396	-63.65	-13	-50.65	-72.67	-67.15	1.85	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)
Lowest	3699	-43.28	-13	-30.28	-57.65	-45.00	5.08	6.80	H
	5550	-41.37	-13	-28.37	-58.53	-43.04	8.03	9.70	H
	7401	-48.80	-13	-35.80	-70.10	-51.18	9.43	11.81	H
	3699	-36.71	-13	-23.71	-52.64	-38.43	5.08	6.80	V
	5550	-40.92	-13	-27.92	-58.18	-42.59	8.03	9.70	V
	7401	-45.62	-13	-32.62	-66.76	-48.00	9.43	11.81	V
Middle	3759	-40.06	-13	-27.06	-55.37	-41.78	5.08	6.80	H
	5640	-36.98	-13	-23.98	-55.62	-38.65	8.03	9.70	H
	7521	-45.77	-13	-32.77	-67.07	-48.15	9.43	11.81	H
	3759	-33.28	-13	-20.28	-49.7	-35.00	5.08	6.80	V
	5640	-42.27	-13	-29.27	-59.36	-43.94	8.03	9.70	V
	7521	-47.28	-13	-34.28	-68.42	-49.66	9.43	11.81	V
Highest	3819	-44.02	-13	-31.02	-58.26	-45.73	5.08	6.80	H
	5730	-32.14	-13	-19.14	-51.60	-33.81	8.03	9.70	H
	7638	-42.29	-13	-29.29	-63.59	-44.67	9.43	11.81	H
	3819	-35.34	-13	-22.34	-51.48	-37.05	5.08	6.80	V
	5730	-32.91	-13	-19.91	-51.89	-34.58	8.03	9.70	V
	7638	-42.78	-13	-29.78	-63.92	-45.16	9.43	11.81	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)
Lowest	3699	-49.18	-13	-36.18	-63.42	-50.89	5.08	6.80	H
	5550	-39.77	-13	-26.77	-57.72	-41.44	8.03	9.70	H
	7401	-50.74	-13	-37.74	-72.04	-53.12	9.43	11.81	H
	3699	-47.60	-13	-34.60	-60.18	-49.32	5.08	6.80	V
	5550	-47.01	-13	-34.01	-64.1	-48.68	8.03	9.70	V
	7401	-49.52	-13	-36.52	-70.66	-51.90	9.43	11.81	V
Middle	3759	-49.21	-13	-36.21	-63.45	-50.92	5.08	6.80	H
	5640	-31.79	-13	-18.79	-51.30	-33.46	8.03	9.70	H
	7521	-49.73	-13	-36.73	-71.03	-52.11	9.43	11.81	H
	3759	-43.26	-13	-30.26	-57.56	-44.98	5.08	6.80	V
	5640	-38.21	-13	-25.21	-56.29	-39.88	8.03	9.70	V
	7521	-49.46	-13	-36.46	-70.6	-51.84	9.43	11.81	V
Highest	3819	-43.94	-13	-30.94	-58.19	-45.65	5.08	6.80	H
	5730	-36.36	-13	-23.36	-55.12	-38.03	8.03	9.70	H
	7638	-49.01	-13	-36.01	-70.31	-51.39	9.43	11.81	H
	3819	-43.73	-13	-30.73	-57.92	-45.45	5.08	6.80	V
	5730	-35.82	-13	-22.82	-54.43	-37.49	8.03	9.70	V
	7638	-47.43	-13	-34.43	-68.57	-49.81	9.43	11.81	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)
Lowest	1656	-58.10	-13	-45.10	-61.06	-60.42	1.33	5.80	H
	2479.2	-57.42	-13	-44.42	-66.77	-60.59	1.58	6.90	H
	3306	-62.27	-13	-49.27	-71.48	-65.77	1.85	7.50	H
	4125	-47.06	-13	-34.06	-58.44	-50.10	2.11	7.30	H
	1654	-58.46	-13	-45.46	-60.83	-60.78	1.33	5.80	V
	2476	-56.33	-13	-43.33	-64.30	-59.50	1.58	6.90	V
	3306	-61.92	-13	-48.92	-70.94	-65.42	1.85	7.50	V
	4128	-58.81	-13	-45.81	-67.34	-61.85	2.11	7.30	V
Middle	1672	-55.52	-13	-42.52	-59.49	-57.84	1.33	5.80	H
	2510	-56.70	-13	-43.70	-66.05	-59.87	1.58	6.90	H
	3345	-60.44	-13	-47.44	-69.65	-63.94	1.85	7.50	H
	4182	-45.76	-13	-32.76	-57.60	-48.80	2.11	7.30	H
	1674	-55.12	-13	-42.12	-58.97	-57.44	1.33	5.80	V
	2508	-58.89	-13	-45.89	-66.86	-62.06	1.58	6.90	V
	3345	-61.28	-13	-48.28	-70.30	-64.78	1.85	7.50	V
	4182	-51.75	-13	-38.75	-60.46	-54.80	2.11	7.30	V
Highest	1696	-54.25	-13	-41.25	-58.46	-56.57	1.33	5.80	H
	2540	-58.22	-13	-45.22	-67.57	-61.39	1.58	6.90	H
	3387	-61.04	-13	-48.04	-70.25	-64.54	1.85	7.50	H
	4239	-55.22	-13	-42.22	-65.14	-58.26	2.11	7.30	H
	1690	-56.16	-13	-43.16	-59.60	-58.48	1.33	5.80	V
	2540	-59.76	-13	-46.76	-67.73	-62.93	1.58	6.90	V
	3387	-61.26	-13	-48.26	-70.28	-64.76	1.85	7.50	V
	4233	-57.78	-13	-44.78	-66.31	-60.82	2.11	7.30	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)
Lowest	3705	-41.13	-13	-28.13	-56.00	-42.85	5.08	6.80	H
	5559	-47.80	-13	-34.80	-64.60	-49.47	8.03	9.70	H
	7410	-50.68	-13	-37.68	-71.98	-53.06	9.43	11.81	H
	3702	-31.13	-13	-18.13	-47.77	-32.85	5.08	6.80	V
	5559	-44.26	-13	-31.26	-61.35	-45.93	8.03	9.70	V
	7410	-51.20	-13	-38.20	-72.34	-53.58	9.43	11.81	V
Middle	3759	-36.08	-13	-23.08	-52.19	-37.80	5.08	6.80	H
	5640	-53.88	-13	-40.88	-70.68	-55.55	8.03	9.70	H
	7521	-50.24	-13	-37.24	-71.54	-52.62	9.43	11.81	H
	3759	-29.94	-13	-16.94	-46.7	-31.66	5.08	6.80	V
	5637	-45.21	-13	-32.21	-62.3	-46.88	8.03	9.70	V
	7521	-50.27	-13	-37.27	-71.41	-52.65	9.43	11.81	V
Highest	3816	-39.14	-13	-26.14	-54.40	-40.86	5.08	6.80	H
	5721	-47.45	-13	-34.45	-64.25	-49.12	8.03	9.70	H
	7629	-50.18	-13	-37.18	-71.48	-52.56	9.43	11.81	H
	3813	-35.36	-13	-22.36	-51.5	-37.07	5.08	6.80	V
	5727	-44.25	-13	-31.25	-61.34	-45.92	8.03	9.70	V
	7629	-50.10	-13	-37.10	-71.24	-52.48	9.43	11.81	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)
Lowest	3426	-56.23	-13	-43.23	-65.13	-60.20	4.87	8.84	H
	5133	-55.97	-13	-42.97	-66.90	-57.41	7.70	9.14	H
	6849	-53.69	-13	-40.69	-72.16	-55.37	8.98	10.66	H
	3426	-54.84	-13	-41.84	-66.46	-58.81	4.87	8.84	V
	5136	-53.26	-13	-40.26	-67.31	-54.70	7.70	9.14	V
	6849	-54.14	-13	-41.14	-72.16	-55.82	8.98	10.66	V
Middle	3468	-59.34	-13	-46.34	-68.24	-63.31	4.87	8.84	H
	5202	-45.90	-13	-32.90	-61.75	-47.35	7.70	9.14	H
	6930	-52.38	-13	-39.38	-70.85	-54.06	8.98	10.66	H
	3465	-54.57	-13	-41.57	-66.19	-58.54	4.87	8.84	V
	5193	-49.05	-13	-36.05	-63.1	-50.49	7.70	9.14	V
	6930	-53.62	-13	-40.62	-71.64	-55.30	8.98	10.66	V
Highest	3507	-57.74	-13	-44.74	-66.64	-61.71	4.87	8.84	H
	5253	-56.84	-13	-43.84	-67.77	-58.28	7.70	9.14	H
	7011	-52.19	-13	-39.19	-70.66	-53.87	8.98	10.66	H
	3507	-54.79	-13	-41.79	-66.41	-58.76	4.87	8.84	V
	5253	-54.77	-13	-41.77	-68.82	-56.21	7.70	9.14	V
	7011	-54.50	-13	-41.50	-72.52	-56.18	8.98	10.66	V

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