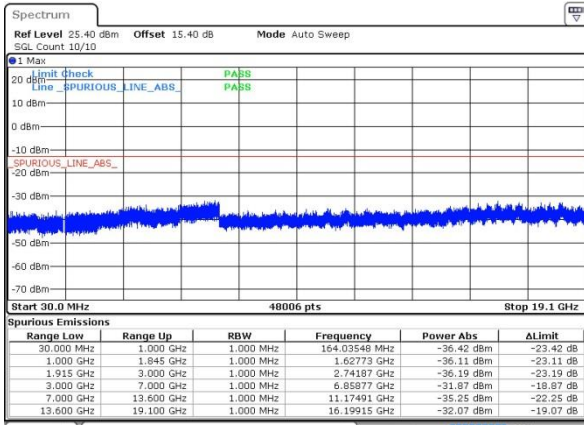




GSM1900 (GSM)

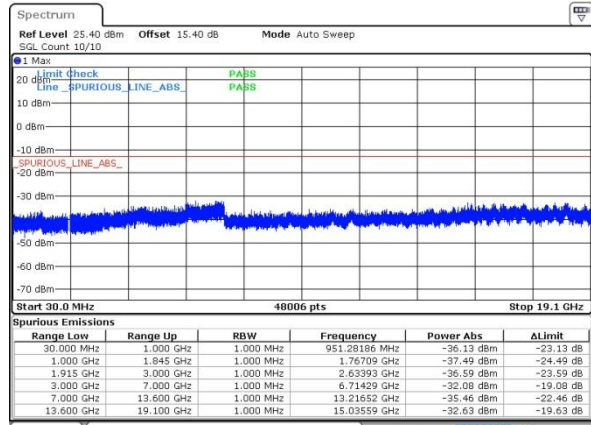
Lowest Channel



Date: 26 FEB 2020 11:51:36

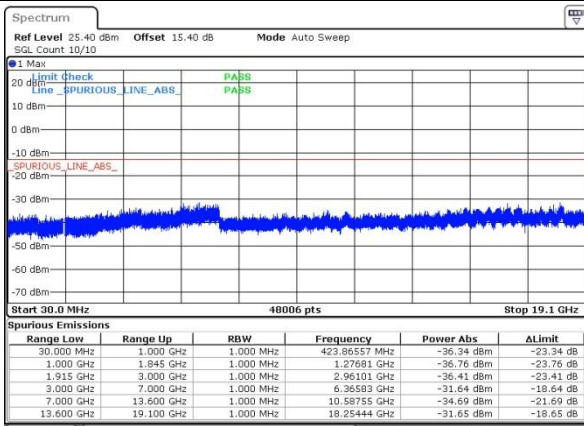
GSM1900 (EDGE class 8)

Lowest Channel



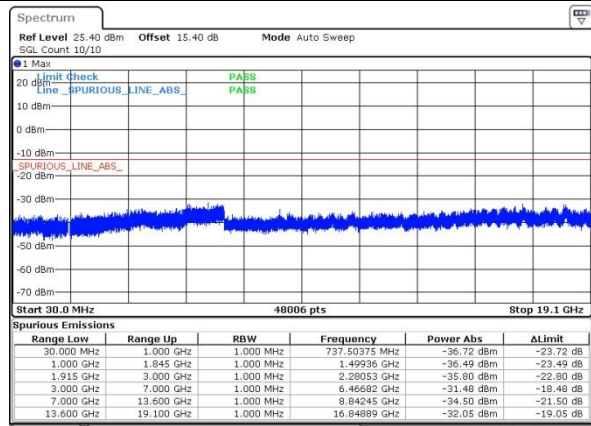
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Middle Channel



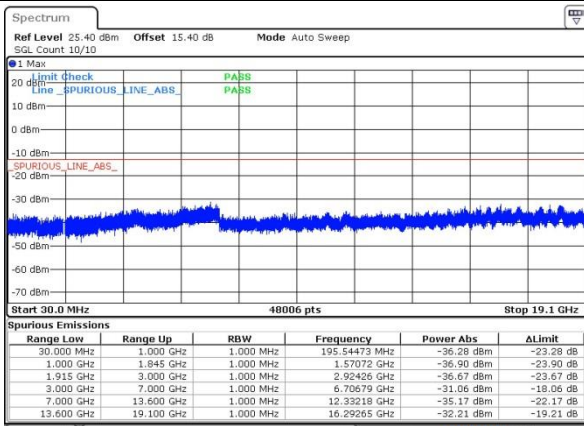
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Middle Channel



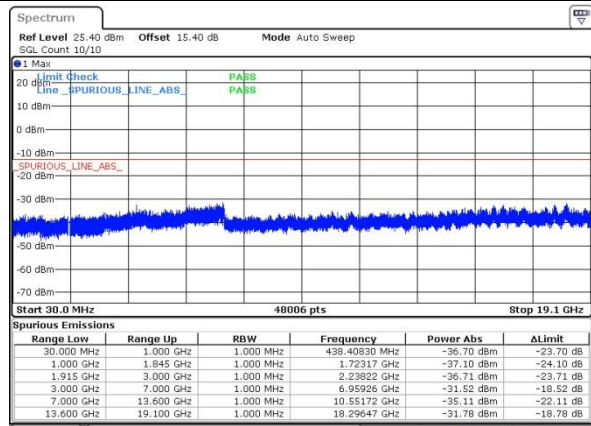
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Highest Channel



Date: 26 FEB 2020 11:54:25

Highest Channel

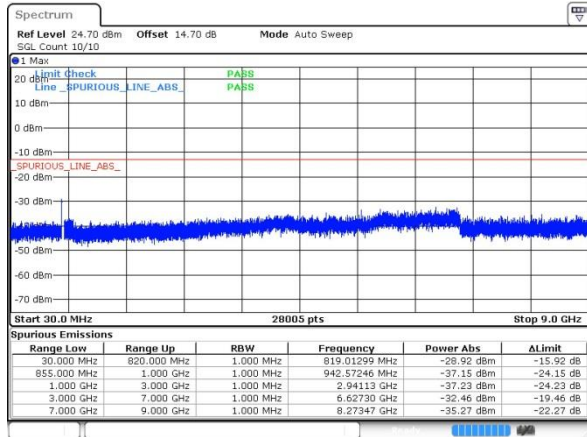


Date: 26 FEB 2020 14:12:50



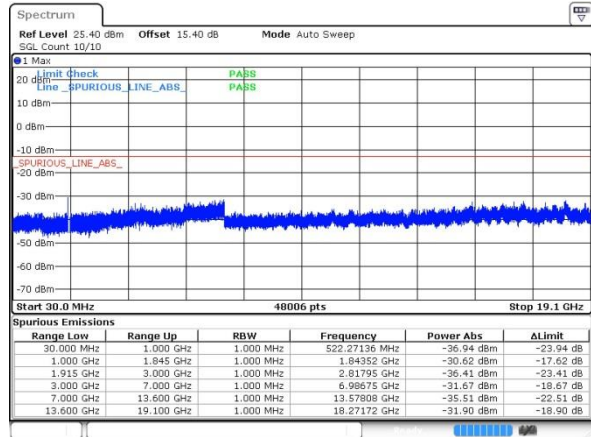
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

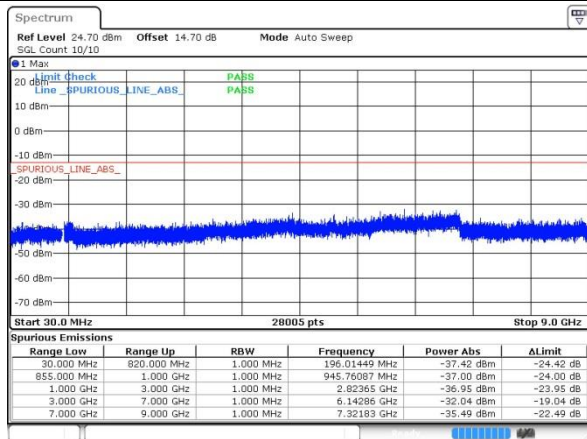


WCDMA Band II (RMC 12.2Kbps)

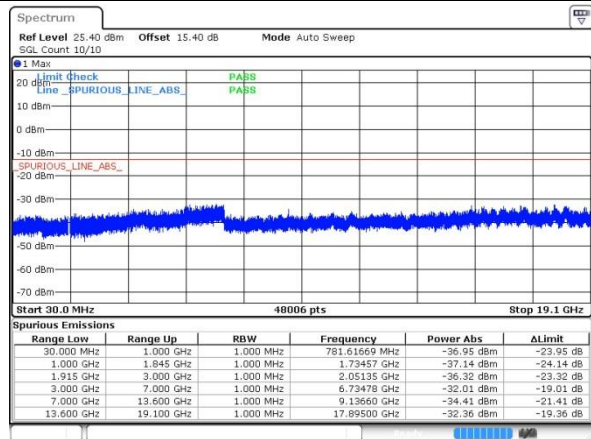
Lowest Channel



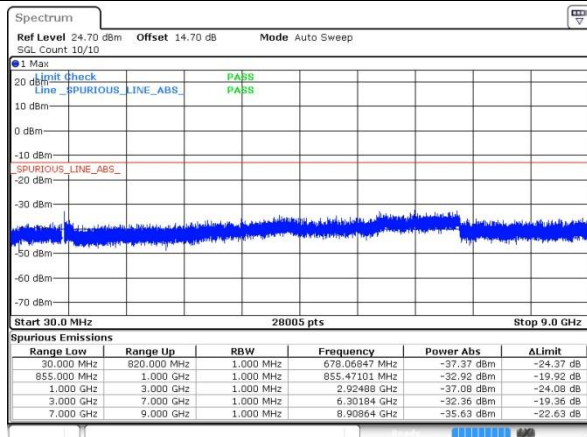
Middle Channel



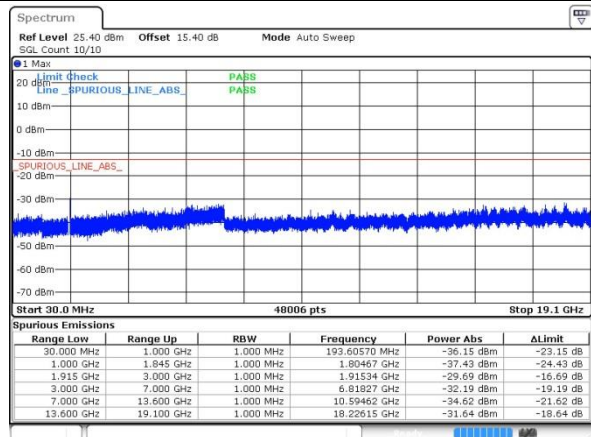
Middle Channel



Highest Channel



Highest Channel



**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	0.0120	0.0275	PASS
40	Normal Voltage	0.0036	0.0239	
30	Normal Voltage	0.0132	0.0084	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0167	0.0167	
0	Normal Voltage	0.0072	0.0167	
-10	Normal Voltage	0.0143	0.0227	
-20	Normal Voltage	0.0024	0.0012	
-30	Normal Voltage	0.0143	0.0108	
20	Maximum Voltage	0.0096	0.0132	
20	Normal Voltage	0.0120	0.0203	
20	Battery End Point	0.0191	0.0036	

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



Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0037	0.0043	PASS
40	Normal Voltage	0.0005	0.0133	
30	Normal Voltage	0.0016	0.0048	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0133	0.0106	
0	Normal Voltage	0.0106	0.0149	
-10	Normal Voltage	0.0090	0.0170	
-20	Normal Voltage	0.0027	0.0122	
-30	Normal Voltage	0.0128	0.0117	
20	Maximum Voltage	0.0069	0.0021	
20	Normal Voltage	0.0016	0.0138	
20	Battery End Point	0.0128	0.0027	

Note:

1. Normal Voltage = 3.85V ; 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.



Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0108	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0167	
-10	Normal Voltage	0.0000	
-20	Normal Voltage	0.0131	
-30	Normal Voltage	0.0203	
20	Maximum Voltage	0.0072	
20	Normal Voltage	0.0036	
20	Battery End Point	0.0143	

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



Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0032	
30	Normal Voltage	0.0027	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0027	
-10	Normal Voltage	0.0053	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0043	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0080	
20	Battery End Point	0.0048	

Note:

1. Normal Voltage = 3.85V ; 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

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	-47.35	-13	-34.35	-54.32	1.58	10.70	H
	2508	-45.43	-13	-32.43	-53.68	2.102	12.50	H
	3348	-60.23	-13	-47.23	-69.12	2.856	13.90	H
	1672	-51.02	-13	-38.02	-57.99	1.58	10.70	V
	2510	-43.07	-13	-30.07	-51.32	2.10	12.50	V
	3348	-57.51	-13	-44.51	-66.40	2.86	13.90	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-46.01	-13	-33.01	-52.98	1.58	10.70	H
	2508	-49.81	-13	-36.81	-58.06	2.102	12.50	H
	3342	-61.84	-13	-48.84	-70.73	2.856	13.90	H
	1672	-51.56	-13	-38.56	-58.53	1.58	10.70	V
	2510	-48.67	-13	-35.67	-56.92	2.10	12.50	V
	3342	-60.11	-13	-47.11	-69.00	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	3760	-57.20	-13	-44.20	-69.46	2.641	14.90	H
	5640	-54.57	-13	-41.57	-66.43	2.94	14.80	H
	7524	-50.58	-13	-37.58	-60.35	3.39	13.16	H
	3759	-57.08	-13	-44.08	-69.34	2.64	14.90	V
	5640	-55.08	-13	-42.08	-66.94	2.94	14.80	V
	7524	-49.54	-13	-36.54	-59.31	3.39	13.16	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-53.77	-13	-40.77	-66.03	2.641	14.90	H
	5640	-50.86	-13	-37.86	-62.72	2.94	14.80	H
	7524	-49.68	-13	-36.68	-59.45	3.39	13.16	H
	3759	-49.34	-13	-36.34	-61.60	2.64	14.90	V
	5640	-52.92	-13	-39.92	-64.78	2.94	14.80	V
	7524	-46.71	-13	-33.71	-56.48	3.39	13.16	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	-65.45	-13	-52.45	-72.42	1.58	10.70	H
	2509.2	-61.35	-13	-48.35	-69.60	2.102	12.50	H
	3348	-62.37	-13	-49.37	-71.26	2.856	13.90	H
	1674	-65.01	-13	-52.01	-71.98	1.58	10.70	V
	2510	-61.31	-13	-48.31	-69.56	2.10	12.50	V
	3348	-62.40	-13	-49.40	-71.29	2.86	13.90	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	-53.15	-13	-40.15	-65.41	2.641	14.90	H
	5637	-52.38	-13	-39.38	-64.24	2.94	14.80	H
	7524	-49.91	-13	-36.91	-59.68	3.39	13.16	H
	3759	-51.83	-13	-38.83	-64.09	2.64	14.90	V
	5640	-54.12	-13	-41.12	-65.98	2.94	14.80	V
	7524	-48.89	-13	-35.89	-58.66	3.39	13.16	V

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