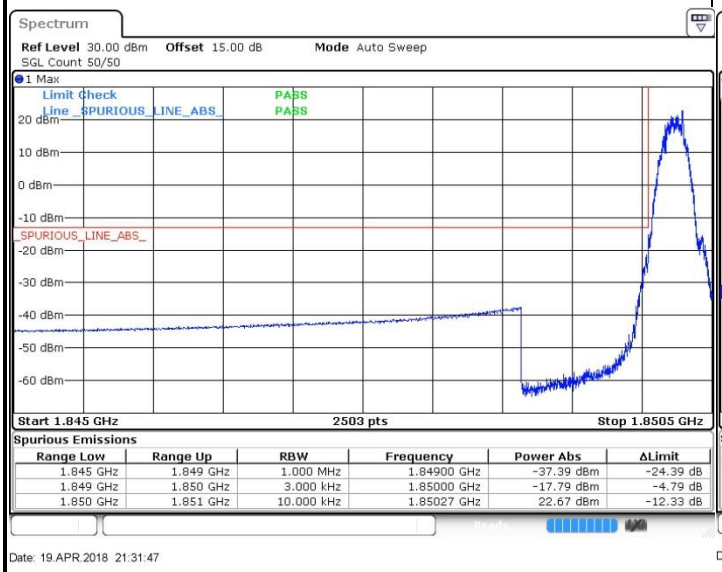
GSM1900 (GSM)

Lowest Band Edge

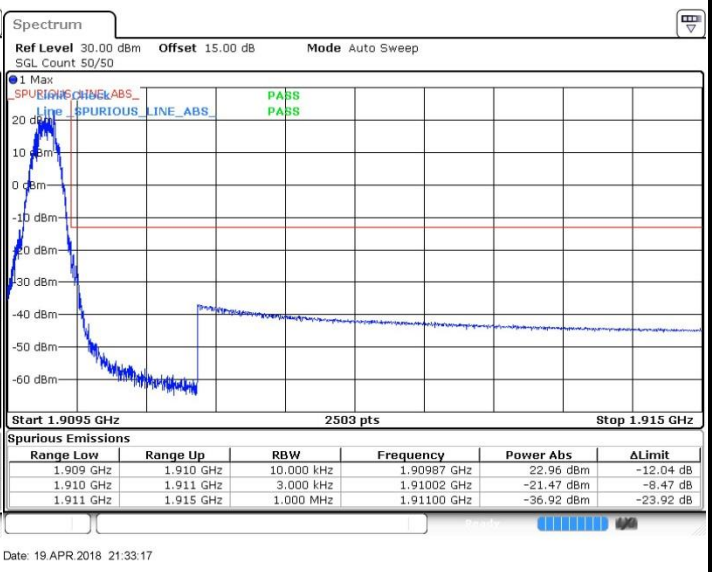


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84900 GHz	-37.39 dBm	-24.39 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.85000 GHz	-17.79 dBm	-4.79 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85027 GHz	22.67 dBm	-12.33 dB

Date: 19.APR.2018 21:31:47

Highest Band Edge



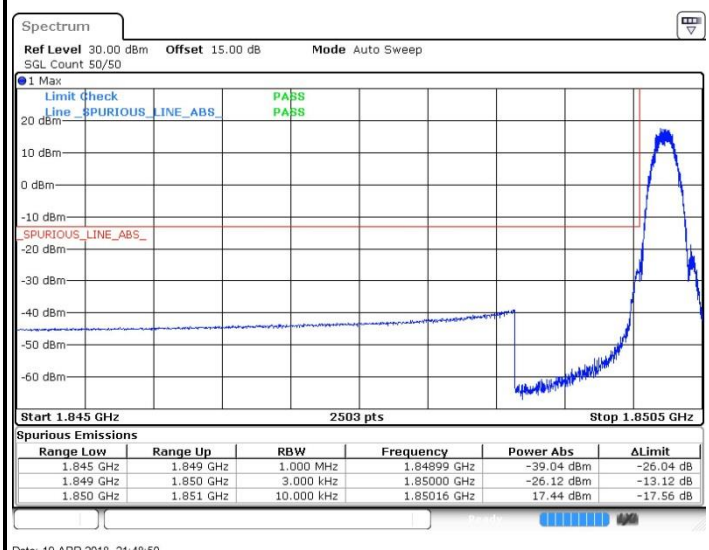
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90987 GHz	22.96 dBm	-12.04 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91002 GHz	-21.47 dBm	-8.47 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91100 GHz	-36.92 dBm	-23.92 dB

Date: 19.APR.2018 21:33:17

GSM1900 (EDGE class 8)

Lowest Band Edge

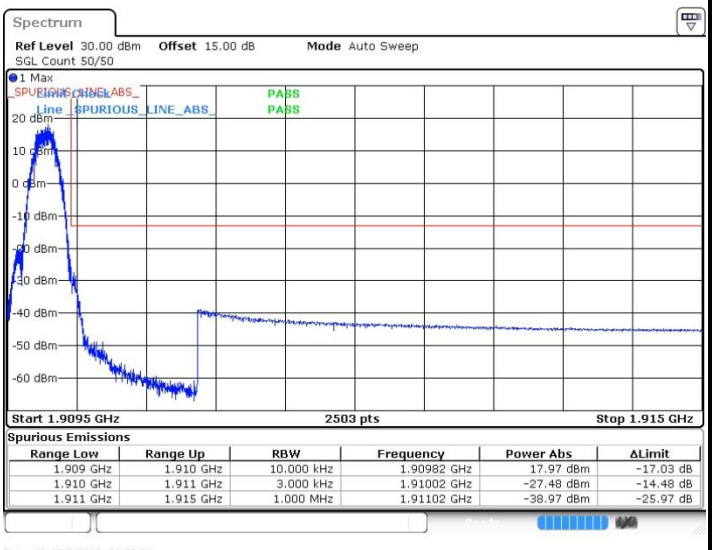


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84899 GHz	-39.04 dBm	-26.04 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.85000 GHz	-26.12 dBm	-13.12 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85016 GHz	17.44 dBm	-17.56 dB

Date: 19.APR.2018 21:48:50

Highest Band Edge



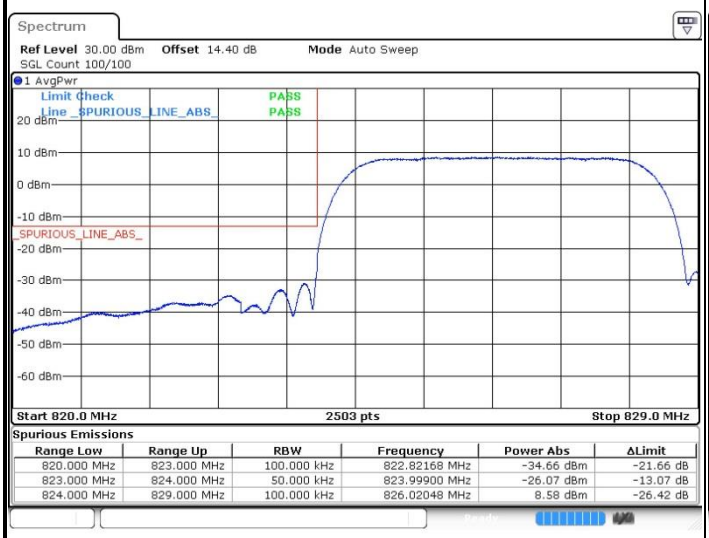
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90982 GHz	17.97 dBm	-17.03 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91002 GHz	-27.48 dBm	-14.48 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91102 GHz	-38.97 dBm	-25.97 dB

Date: 19.APR.2018 21:50:21

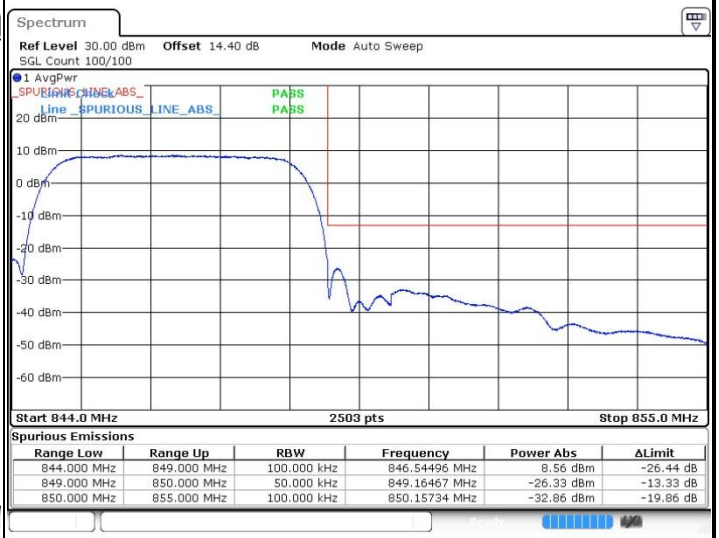
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 19.APR.2018 20:20:49

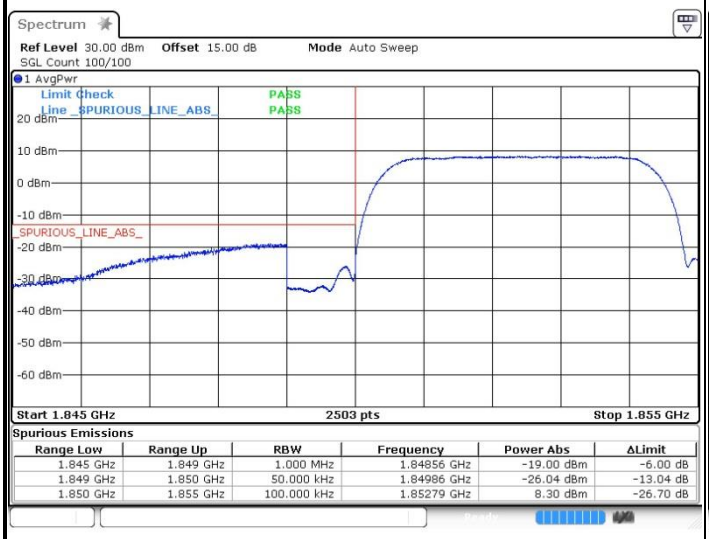
Highest Band Edge



Date: 19.APR.2018 20:23:38

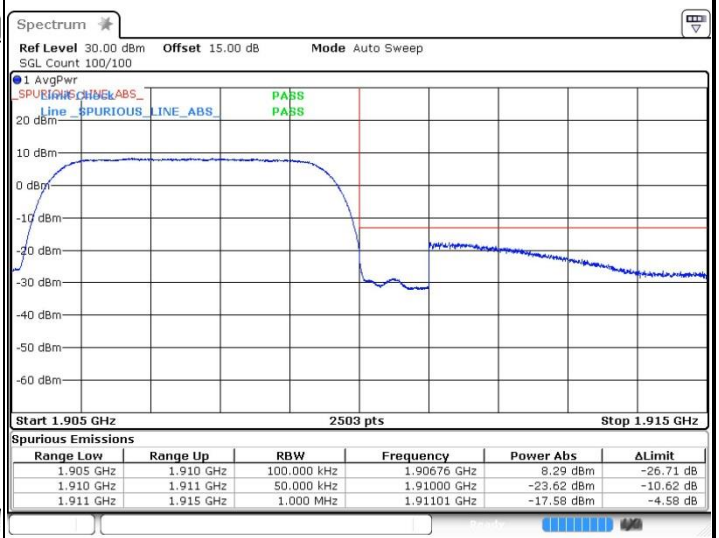
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



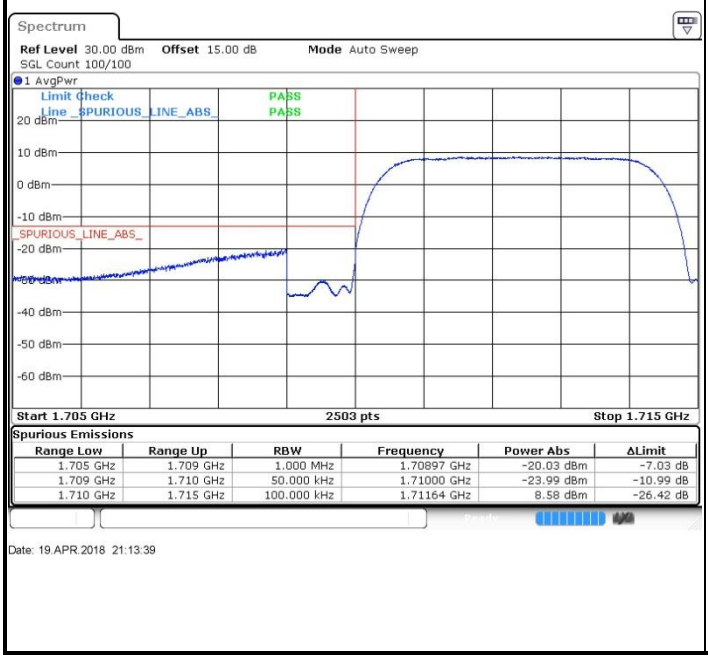
Date: 19.APR.2018 20:55:03

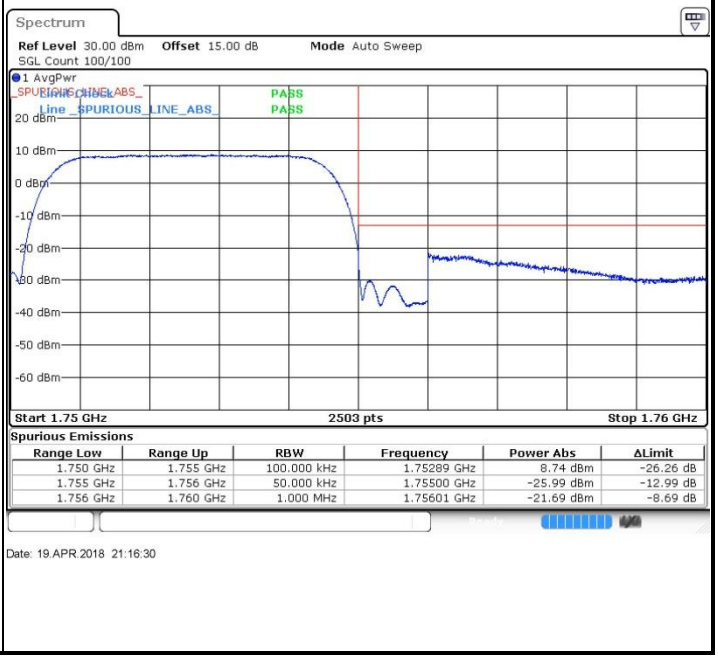
Highest Band Edge



Date: 19.APR.2018 20:58:14

WCDMA Band IV (RMC 12.2Kbps)	
Lowest Band Edge	**Highest Band Edge**

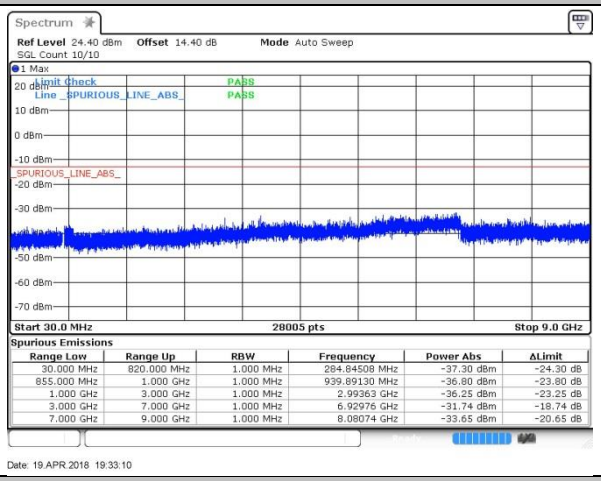




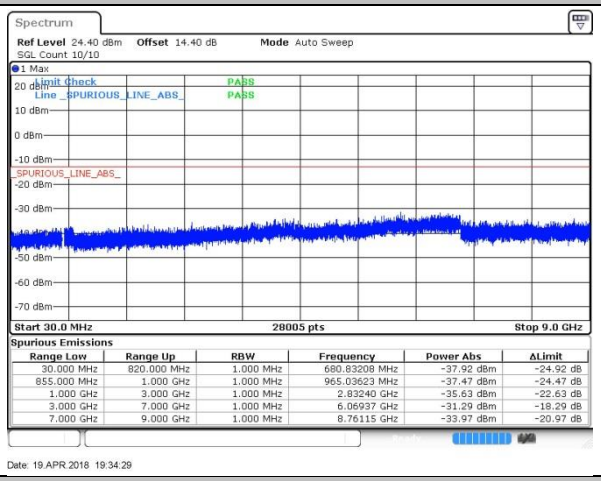
Conducted Spurious Emission

GSM850 (GSM)

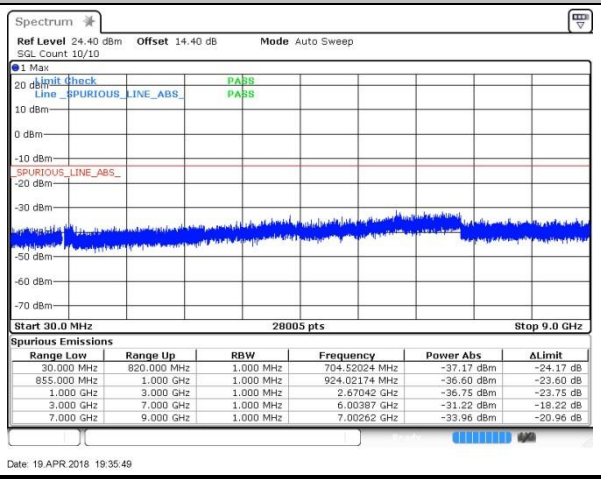
Lowest Channel



Middle Channel

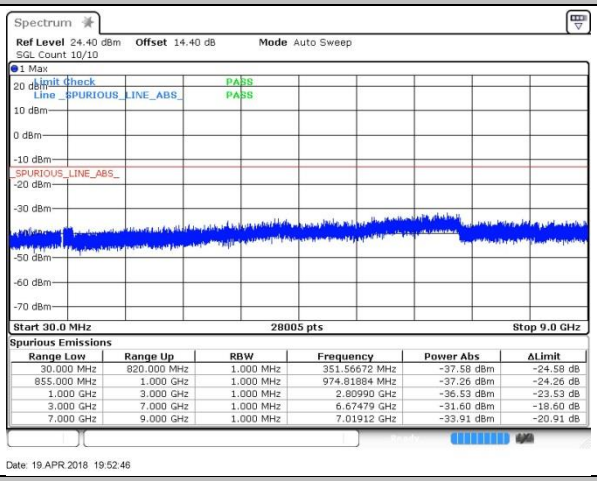


Highest Channel

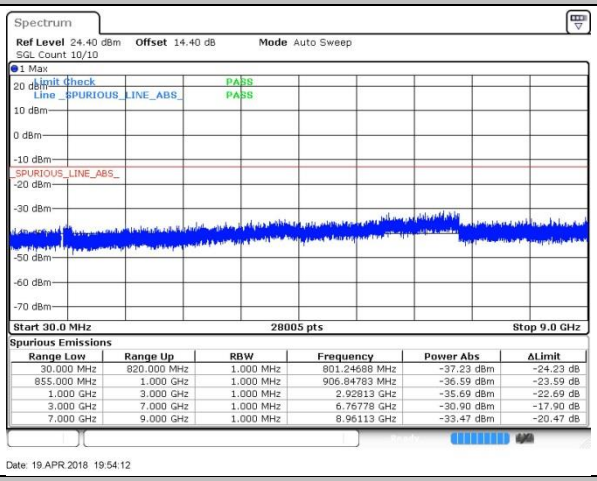


GSM850 (EDGE class 8)

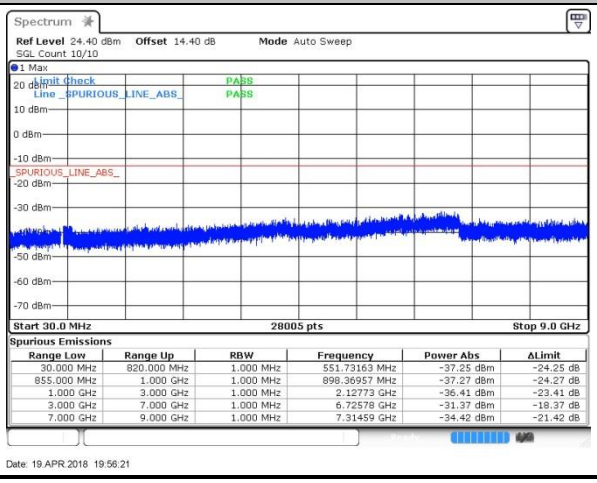
Lowest Channel

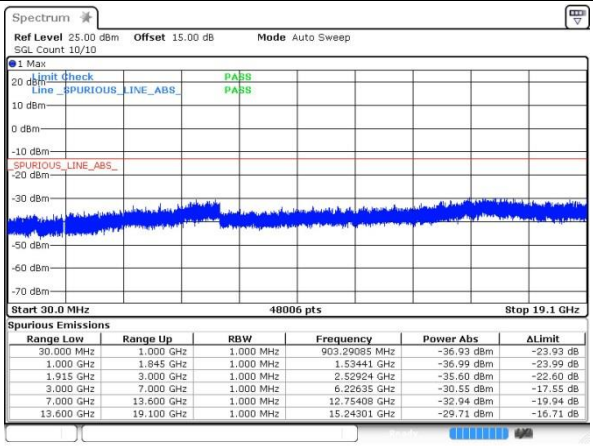
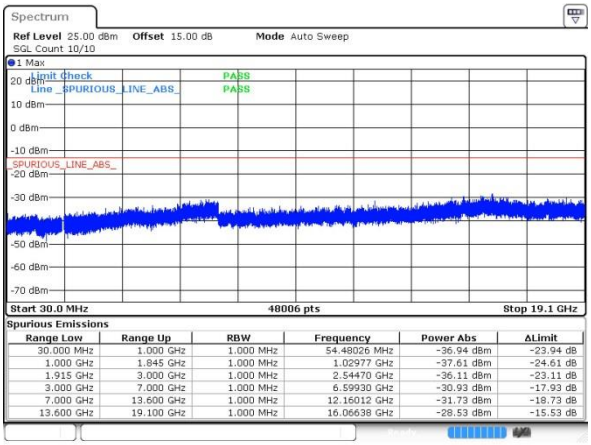
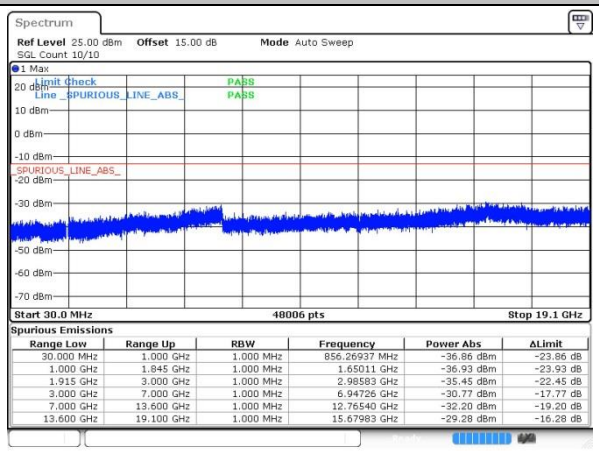
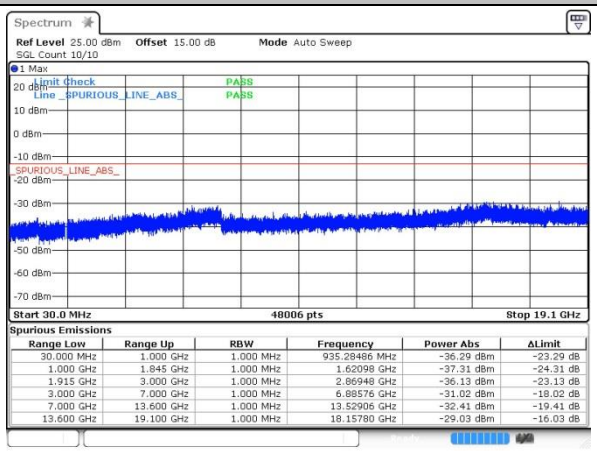
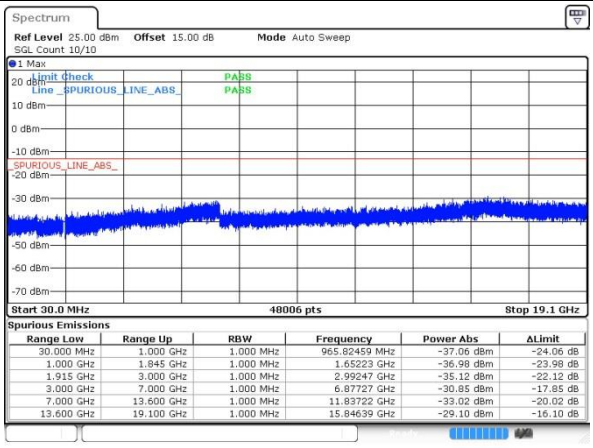
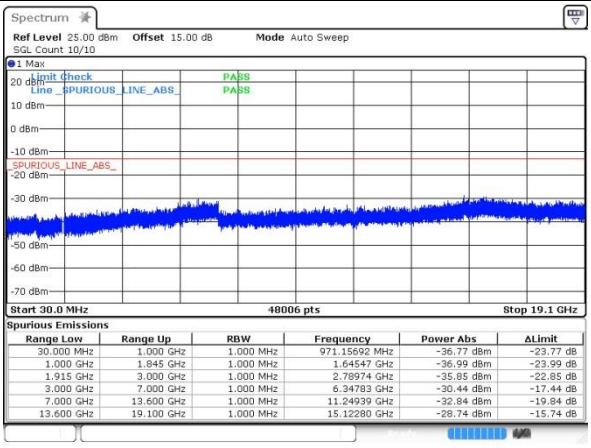


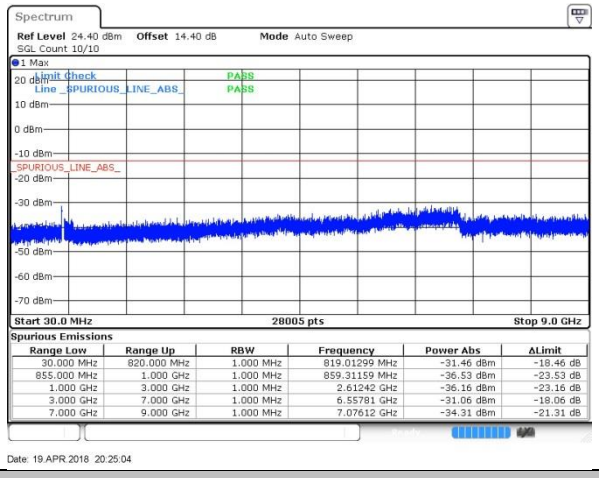
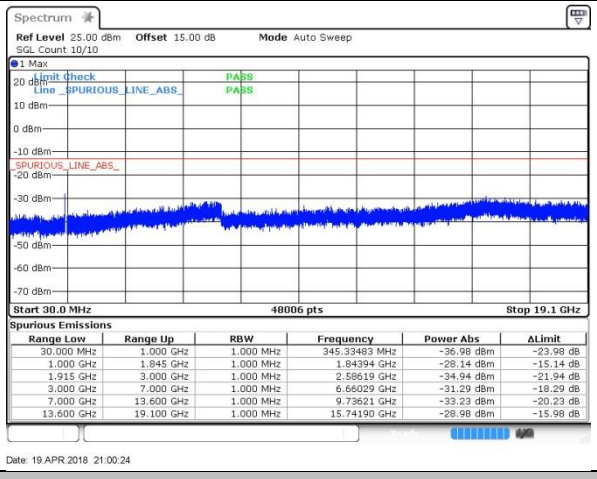
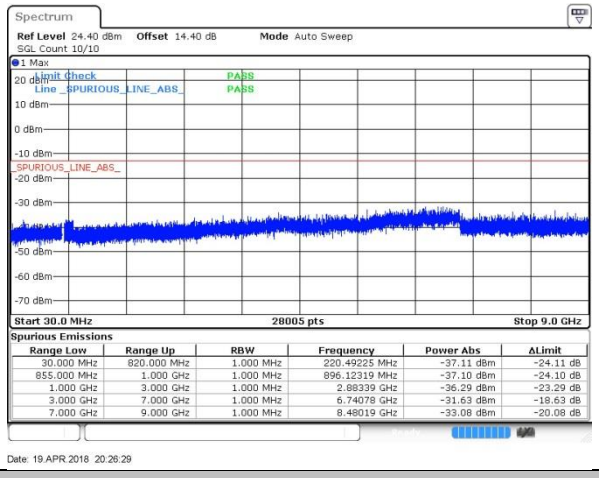
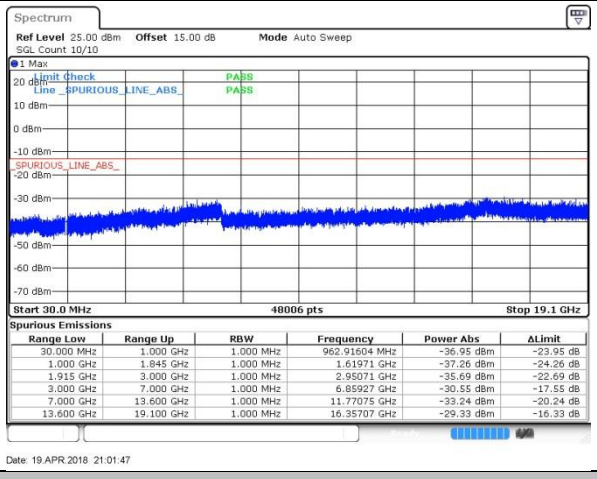
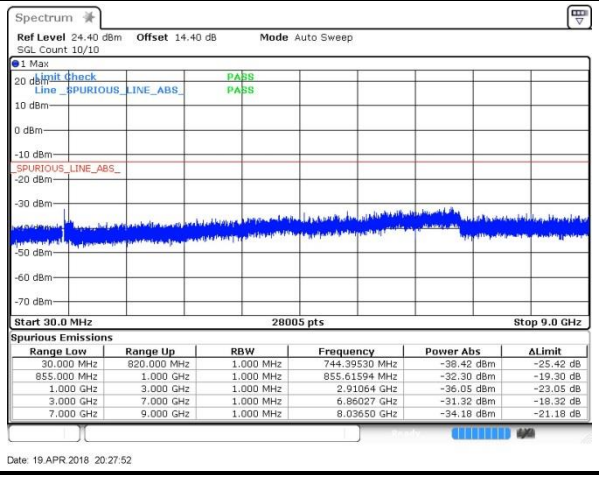
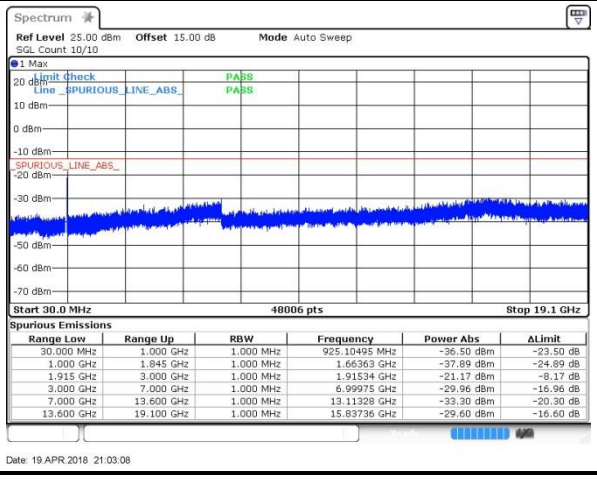
Middle Channel



Highest Channel

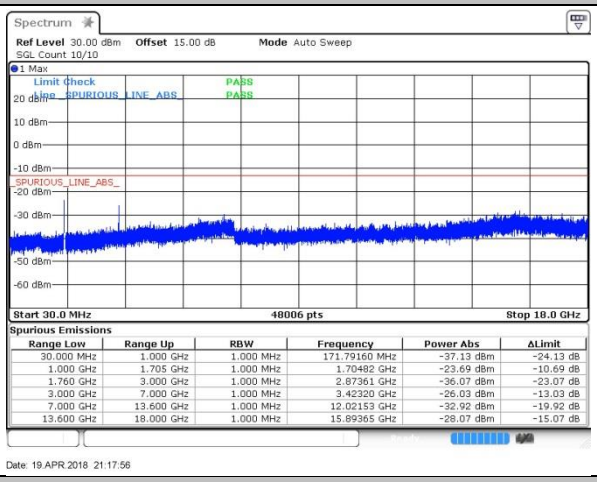


GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

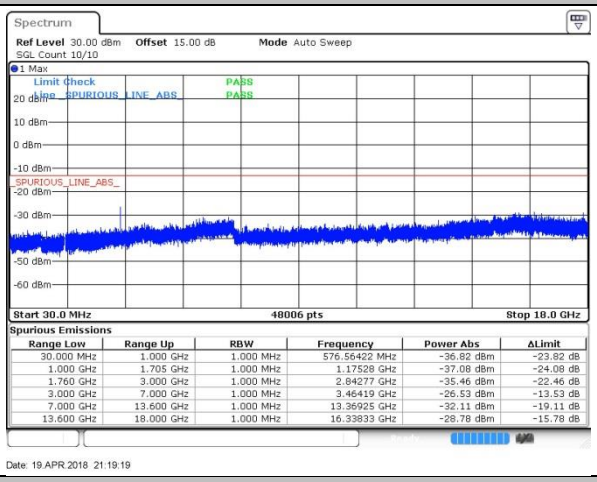
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

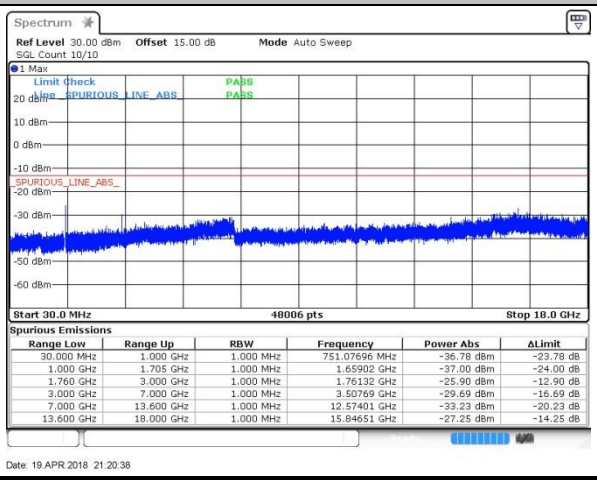
Lowest Channel



Middle 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	0.0108	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	0.0203	0.0227	
-20	Normal Voltage	0.0155	0.0060	
-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 = 3.8V. ；Battery End Point (BEP) =3.5V.；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	0.0053	0.0181	PASS
40	Normal Voltage	0.0005	0.0133	
30	Normal Voltage	0.0117	0.0027	
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 = 3.8V. ；Battery End Point (BEP) =3.5V.；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	0.0084	PASS
40	Normal Voltage	0.0287	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0359	
0	Normal Voltage	0.0251	
-10	Normal Voltage	0.0060	
-20	Normal Voltage	0.0299	
-30	Normal Voltage	0.0036	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0239	
20	Battery End Point	0.0263	

Note: Normal Voltage = 3.8V. ；Battery End Point (BEP) =3.5V.；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	0.0005	PASS
40	Normal Voltage	0.0101	
30	Normal Voltage	0.0112	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0165	
0	Normal Voltage	0.0048	
-10	Normal Voltage	0.0122	
-20	Normal Voltage	0.0154	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0096	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) =3.5V.；Maximum Voltage =4.35V
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	0.0035	PASS
40	Normal Voltage	0.0029	
30	Normal Voltage	0.0150	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0127	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0144	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0133	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage = 3.8V. ；Battery End Point (BEP) =3.5V.；Maximum Voltage =4.35V

2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

Appendix B. Test Results of Conducted 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	-61.30	-13	-48.30	-63.21	1.14	5.20	H
	2510	-55.98	-13	-42.98	-58.61	1.12	5.90	H
	3345	-60.33	-13	-47.33	-63.54	1.34	6.70	H
	1672	-53.40	-13	-40.40	-55.31	1.14	5.20	V
	2510	-53.62	-13	-40.62	-56.25	1.12	5.90	V
	3345	-60.03	-13	-47.03	-63.24	1.34	6.70	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	-61.72	-13	-48.72	-63.63	1.14	5.20	H
	2510	-61.32	-13	-48.32	-63.95	1.12	5.90	H
	3345	-60.34	-13	-47.34	-63.55	1.34	6.70	H
	1672	-64.25	-13	-51.25	-66.16	1.14	5.20	V
	2510	-61.22	-13	-48.22	-63.85	1.12	5.90	V
	3345	-60.17	-13	-47.17	-63.38	1.34	6.70	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	-53.64	-13	-40.64	-55.36	5.08	6.80	H
	5640	-51.19	-13	-38.19	-52.86	8.03	9.70	H
	7521	-50.59	-13	-37.59	-52.97	9.43	11.81	H
	3759	-50.97	-13	-37.97	-52.69	5.08	6.80	V
	5640	-48.42	-13	-35.42	-50.09	8.03	9.70	V
	7521	-50.53	-13	-37.53	-52.91	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3759	-58.55	-13	-45.55	-60.27	5.08	6.80	H
	5640	-54.86	-13	-41.86	-56.53	8.03	9.70	H
	7521	-50.69	-13	-37.69	-53.07	9.43	11.81	H
	3759	-57.55	-13	-44.55	-59.27	5.08	6.80	V
	5640	-55.03	-13	-42.03	-56.70	8.03	9.70	V
	7521	-50.87	-13	-37.87	-53.25	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1672	-63.73	-13	-50.73	-65.64	1.14	5.20	H
	2510	-61.67	-13	-48.67	-64.30	1.12	5.90	H
	3345	-60.19	-13	-47.19	-63.40	1.34	6.70	H
	1672	-59.32	-13	-46.32	-61.23	1.14	5.20	V
	2510	-61.20	-13	-48.20	-63.83	1.12	5.90	V
	3345	-60.09	-13	-47.09	-63.30	1.34	6.70	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	-57.47	-13	-44.47	-59.19	5.08	6.80	H
	5640	-54.97	-13	-41.97	-56.64	8.03	9.70	H
	7521	-50.68	-13	-37.68	-53.06	9.43	11.81	H
	3759	-55.28	-13	-42.28	-57.00	5.08	6.80	V
	5640	-54.71	-13	-41.71	-56.38	8.03	9.70	V
	7521	-50.68	-13	-37.68	-53.06	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)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	3465	-43.07	-13	-30.07	-47.04	4.87	8.84	H
	5199	-56.09	-13	-43.09	-57.53	7.70	9.14	H
	6930	-52.15	-13	-39.15	-53.84	8.98	10.66	H
	3465	-45.75	-13	-32.75	-49.72	4.87	8.84	V
	5199	-54.91	-13	-41.91	-56.35	7.70	9.14	V
	6930	-51.99	-13	-38.99	-53.68	8.98	10.66	V

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