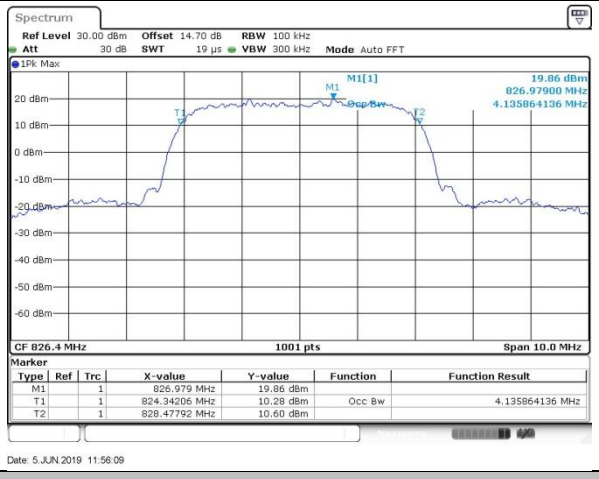
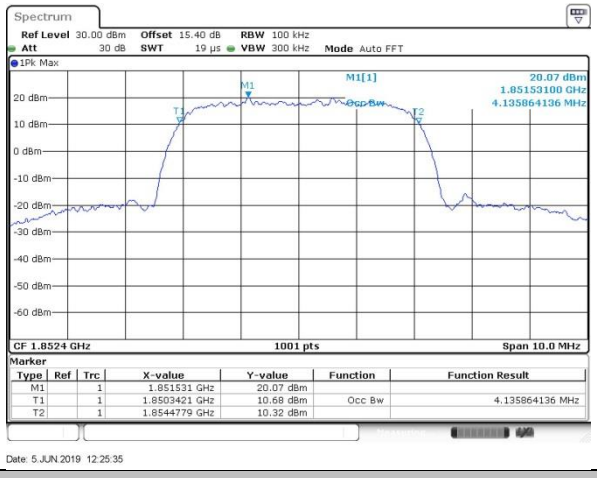
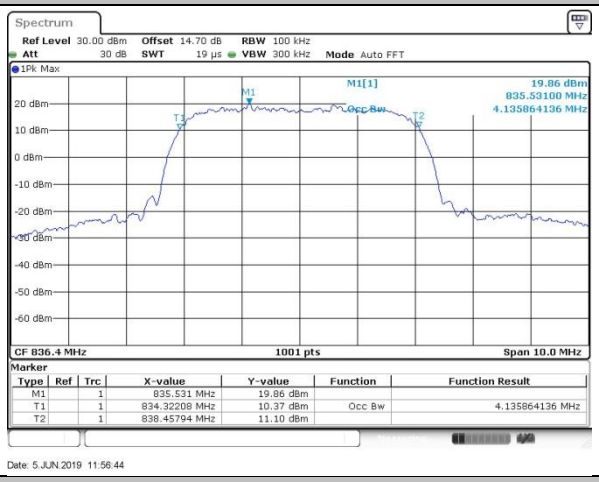
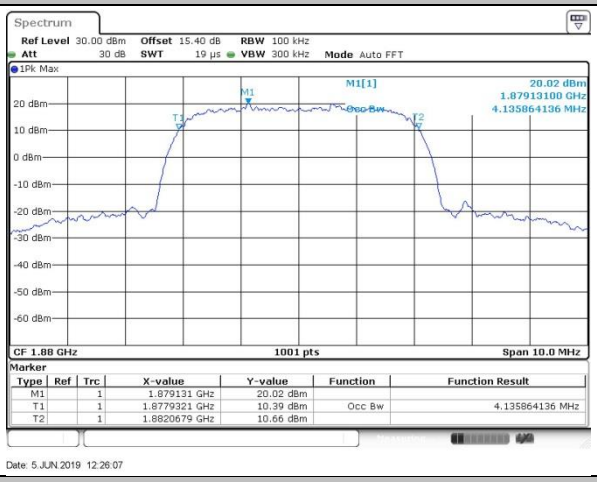
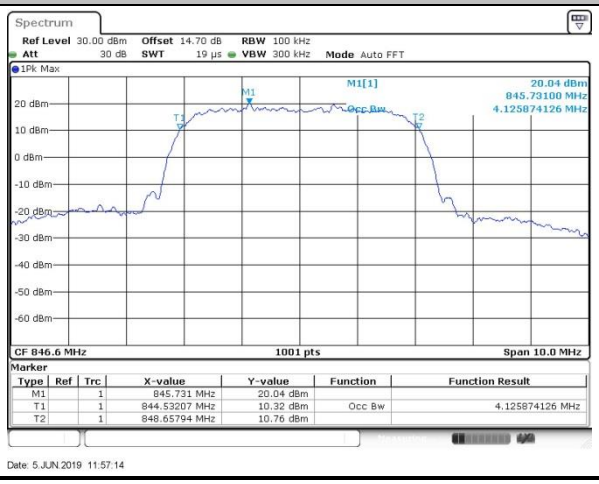
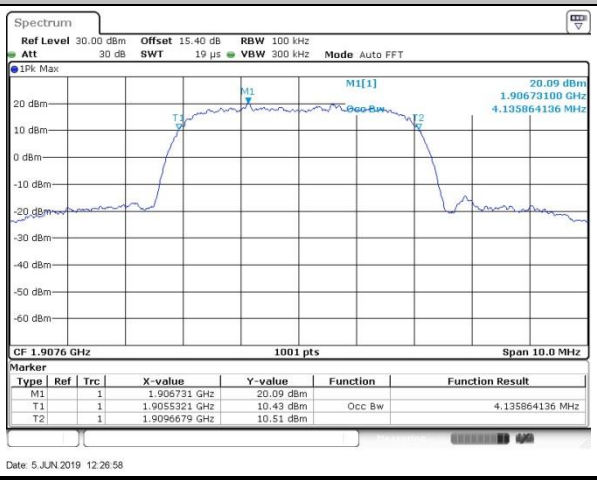
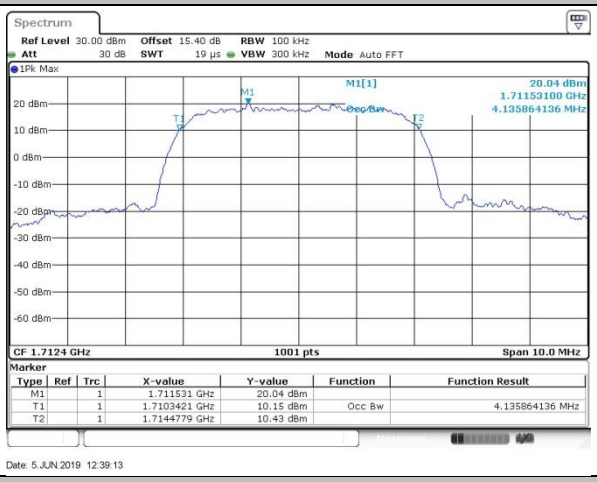
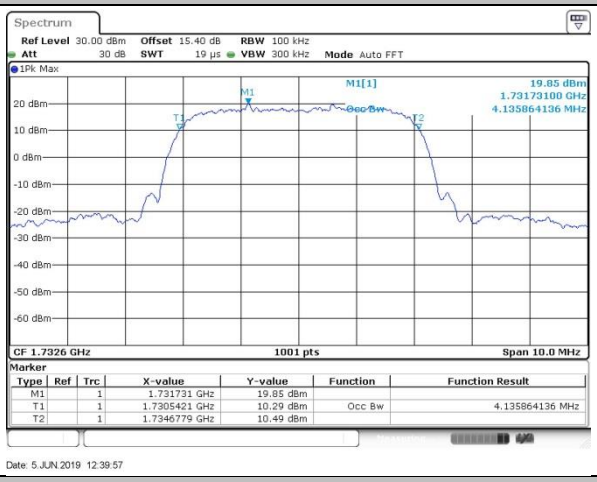
WCDMA Band V (RMC 12.2Kbps)	WCDMA Band II (RMC 12.2Kbps)
Lowest Channel	**Lowest Channel**
	
Middle Channel	**Middle Channel**
	
Highest Channel	**Highest Channel**
	

WCDMA Band IV (RMC 12.2Kbps)

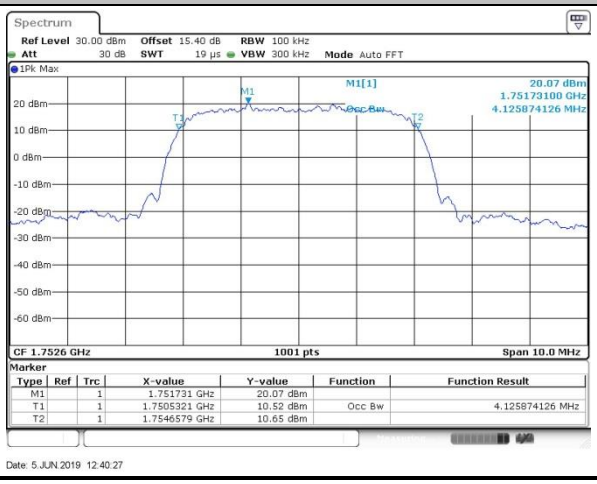
Lowest Channel



Middle Channel



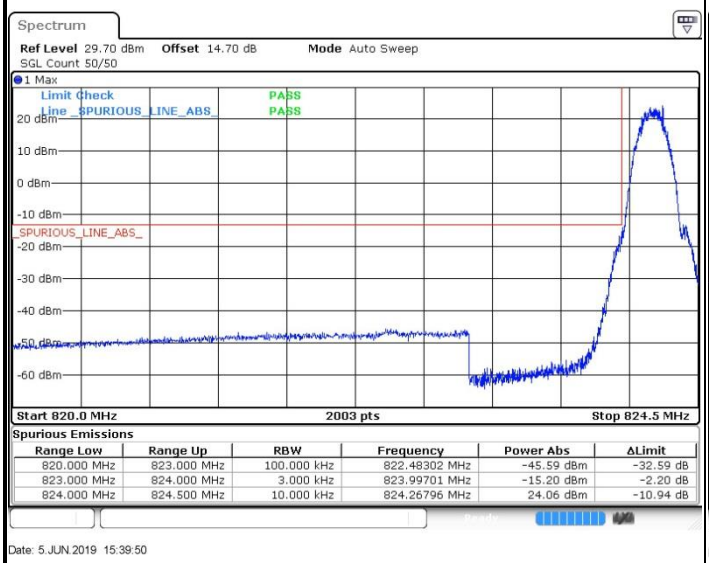
Highest Channel



Conducted Band Edge

GSM850 (GSM)

Lowest Band Edge

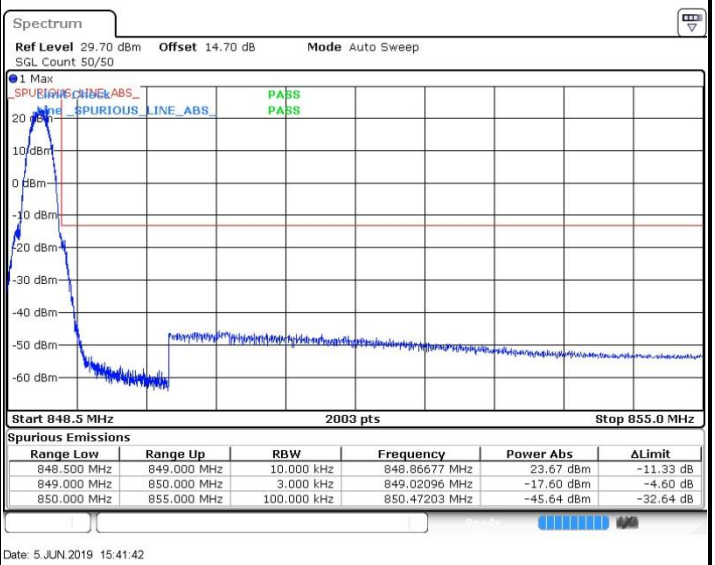


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.48302 MHz	-45.59 dBm	-32.59 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.99701 MHz	-15.20 dBm	-2.20 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.26796 MHz	24.06 dBm	-10.94 dB

Date: 5.JUN.2019 15:39:50

Highest Band Edge



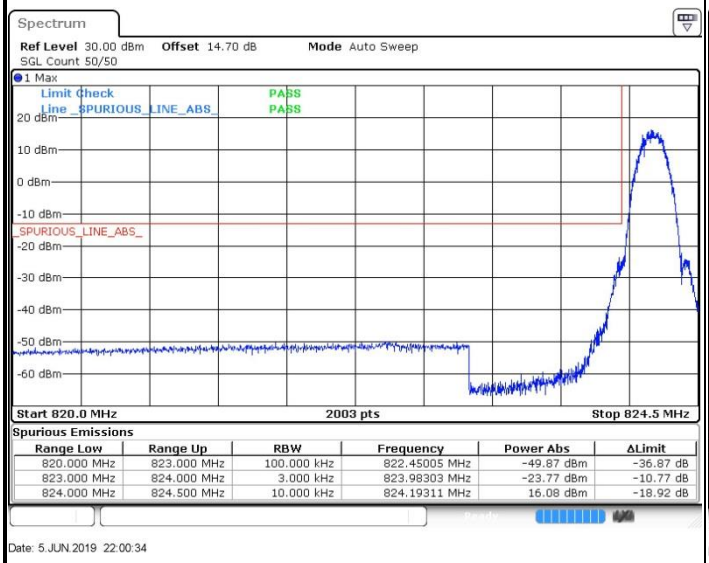
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.86677 MHz	23.67 dBm	-11.33 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.02096 MHz	-17.60 dBm	-4.60 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.47203 MHz	-45.64 dBm	-32.64 dB

Date: 5.JUN.2019 15:41:42

GSM850 (EDGE class 8)

Lowest Band Edge

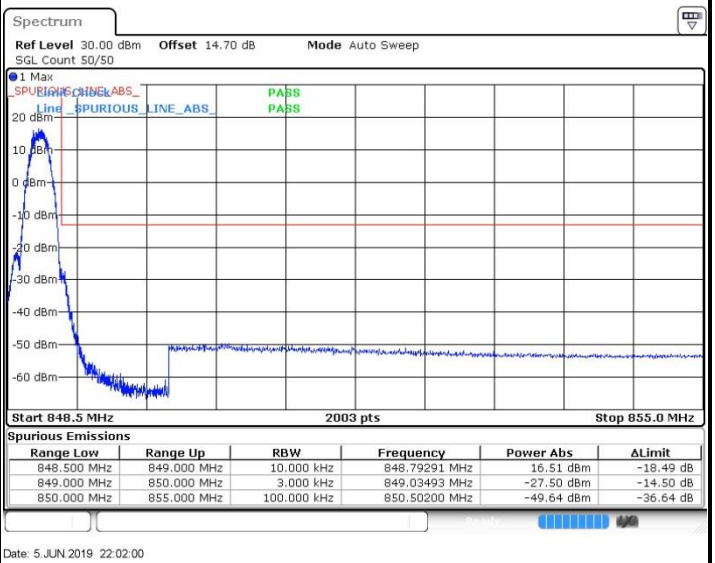


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
820.000 MHz	823.000 MHz	100.000 kHz	822.45005 MHz	-49.87 dBm	-36.87 dB
823.000 MHz	824.000 MHz	3.000 kHz	823.98303 MHz	-23.77 dBm	-10.77 dB
824.000 MHz	824.500 MHz	10.000 kHz	824.19311 MHz	16.08 dBm	-18.92 dB

Date: 5.JUN.2019 22:00:34

Highest Band Edge



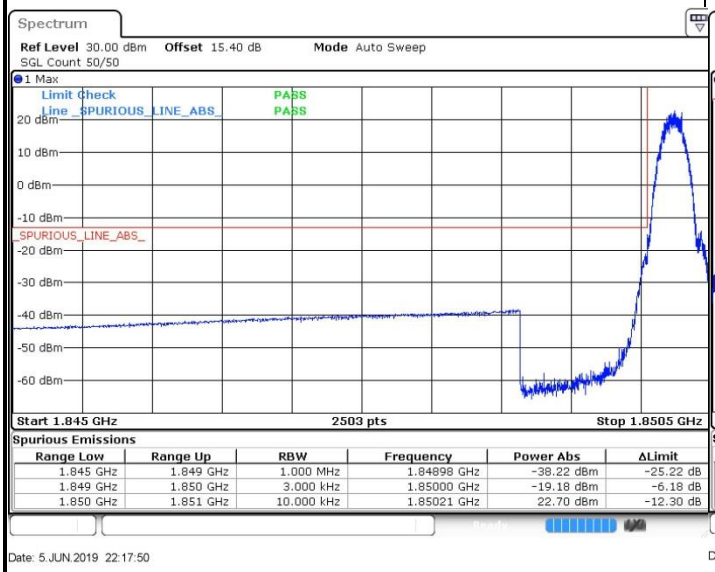
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
848.500 MHz	849.000 MHz	10.000 kHz	848.79291 MHz	16.51 dBm	-18.49 dB
849.000 MHz	850.000 MHz	3.000 kHz	849.03493 MHz	-27.50 dBm	-14.50 dB
850.000 MHz	855.000 MHz	100.000 kHz	850.50200 MHz	-49.64 dBm	-36.64 dB

Date: 5.JUN.2019 22:02:00

GSM1900 (GSM)

Lowest Band Edge

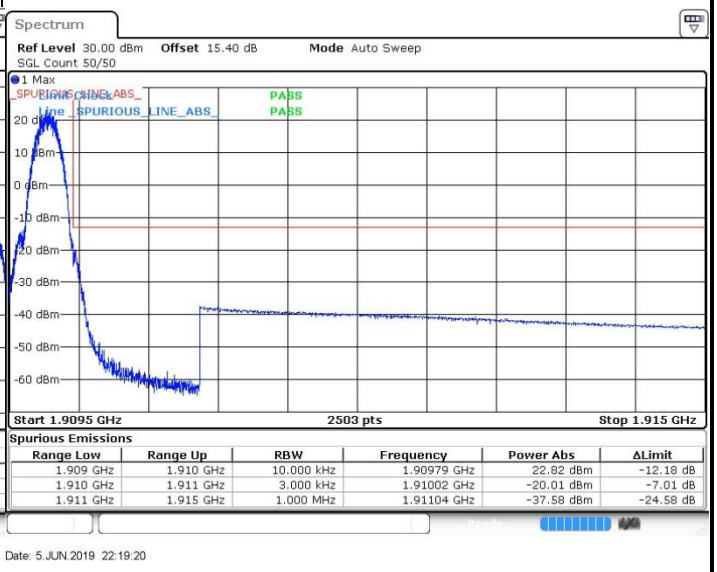


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-38.22 dBm	-25.22 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.85000 GHz	-19.18 dBm	-6.18 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85021 GHz	22.70 dBm	-12.30 dB

Date: 5.JUN.2019 22:17:50

Highest Band Edge



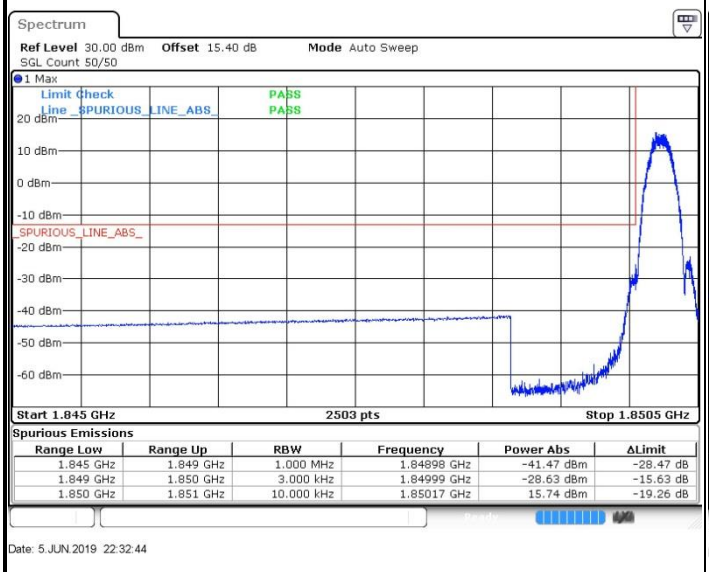
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90979 GHz	22.82 dBm	-12.18 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91002 GHz	-20.01 dBm	-7.01 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91104 GHz	-37.58 dBm	-24.58 dB

Date: 5.JUN.2019 22:19:20

GSM1900 (EDGE class 8)

Lowest Band Edge

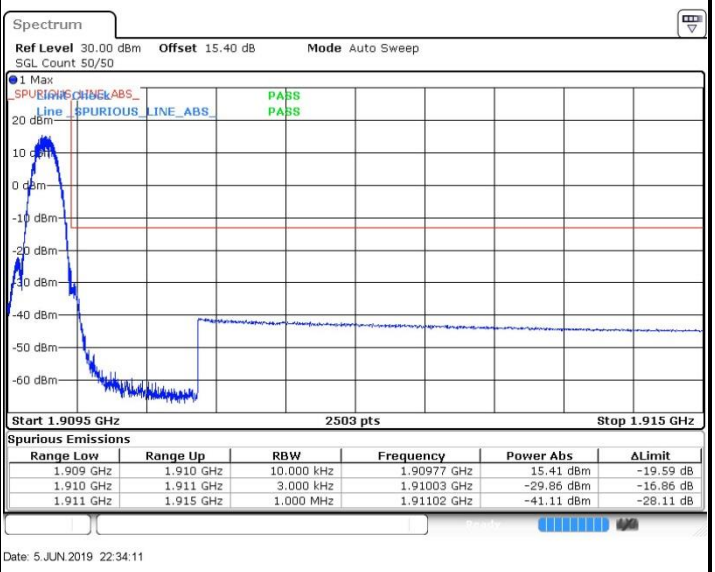


Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.845 GHz	1.849 GHz	1.000 MHz	1.84898 GHz	-41.47 dBm	-28.47 dB
1.849 GHz	1.850 GHz	3.000 kHz	1.84999 GHz	-28.63 dBm	-15.63 dB
1.850 GHz	1.851 GHz	10.000 kHz	1.85017 GHz	15.74 dBm	-19.26 dB

Date: 5.JUN.2019 22:32:44

Highest Band Edge



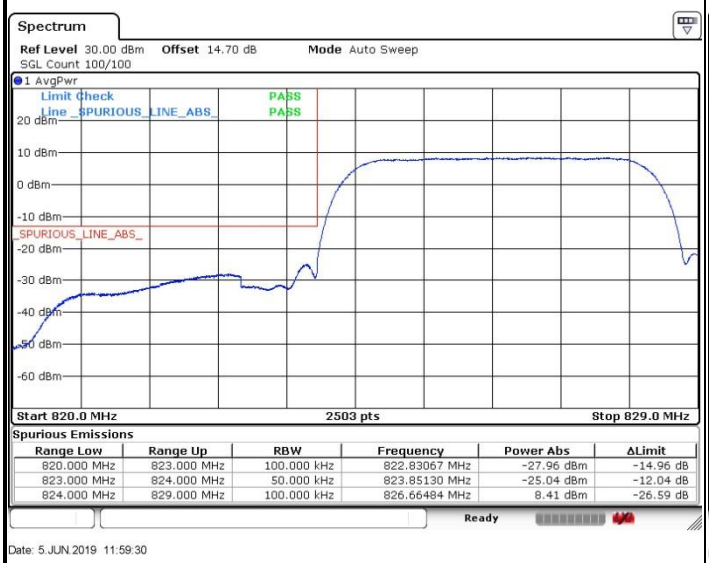
Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
1.909 GHz	1.910 GHz	10.000 kHz	1.90977 GHz	15.41 dBm	-19.59 dB
1.910 GHz	1.911 GHz	3.000 kHz	1.91003 GHz	-29.86 dBm	-16.86 dB
1.911 GHz	1.915 GHz	1.000 MHz	1.91102 GHz	-41.11 dBm	-28.11 dB

Date: 5.JUN.2019 22:34:11

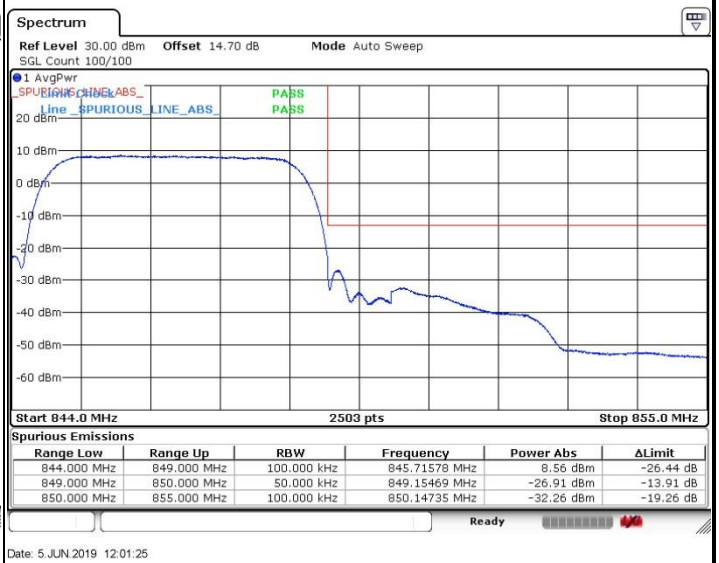
WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge



Date: 5.JUN.2019 11:59:30

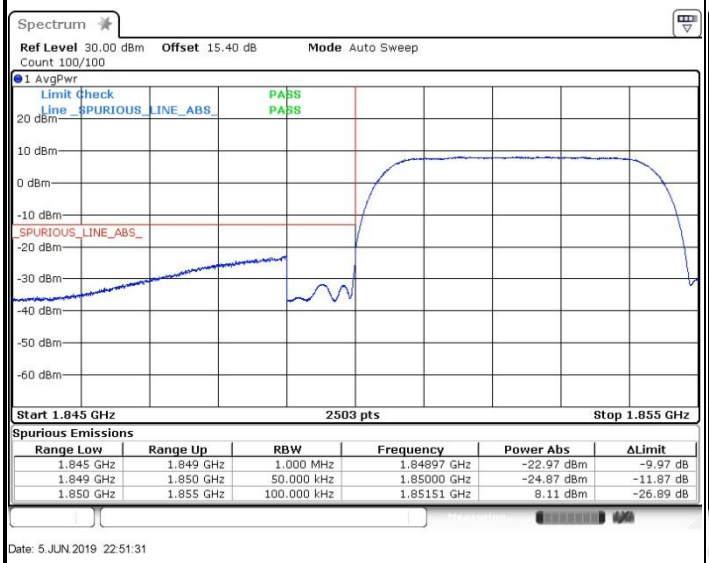
Highest Band Edge



Date: 5.JUN.2019 12:01:25

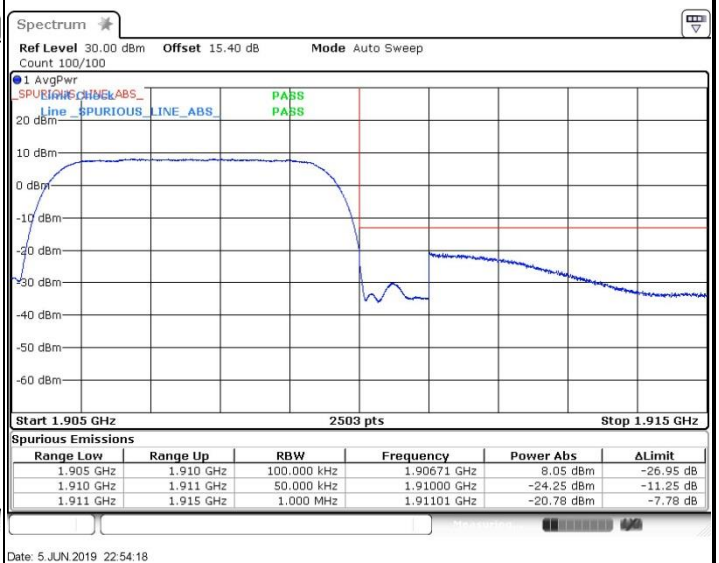
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



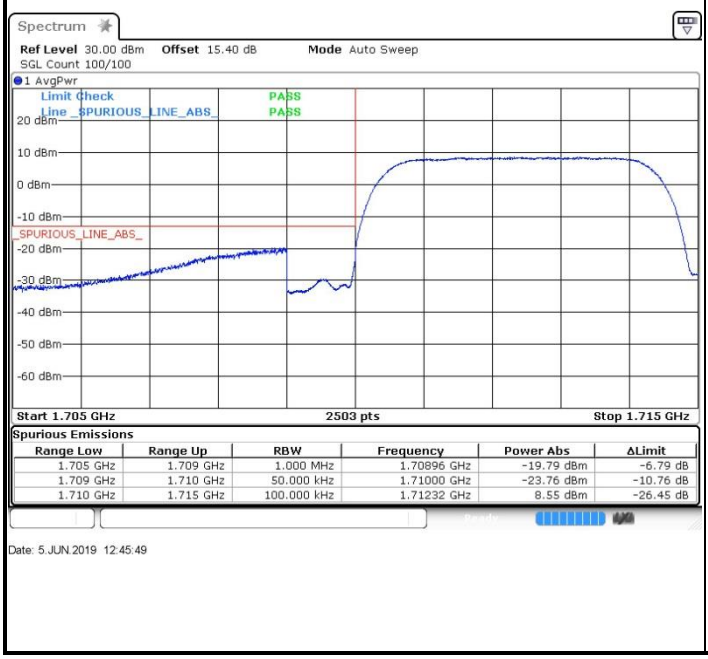
Date: 5.JUN.2019 22:51:31

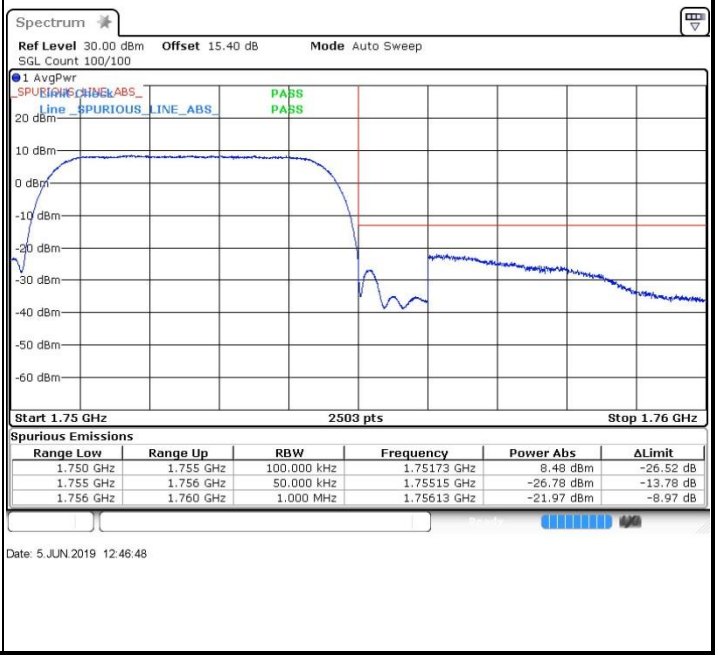
Highest Band Edge



Date: 5.JUN.2019 22:54:18

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

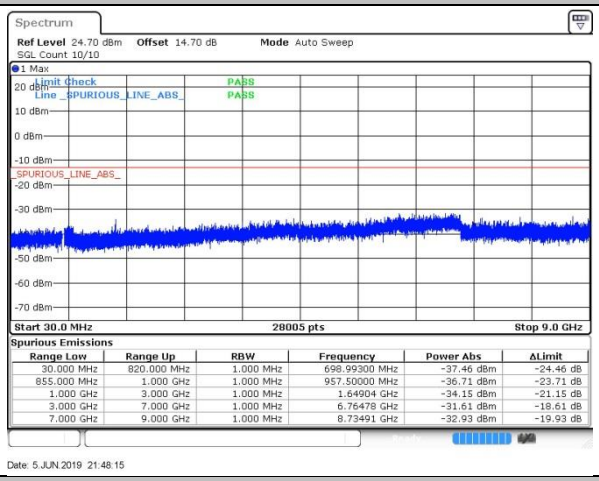




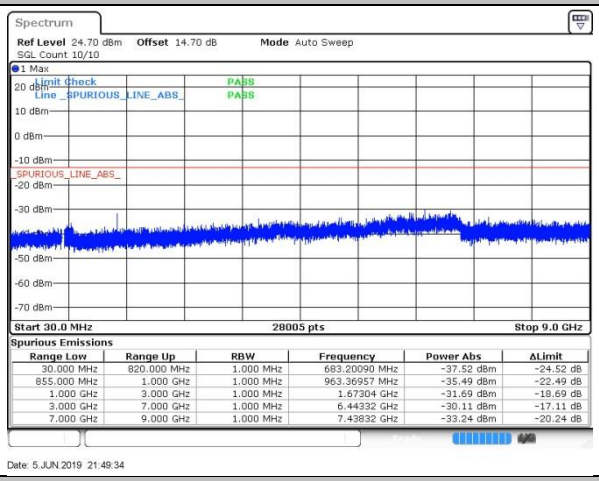
Conducted Spurious Emission

GSM850 (GSM)

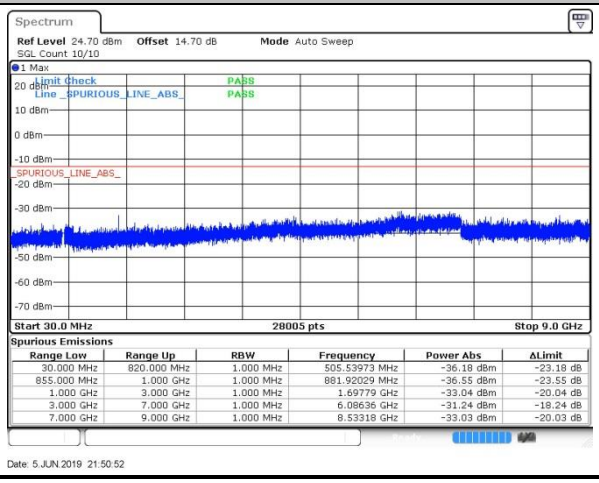
Lowest Channel



Middle Channel

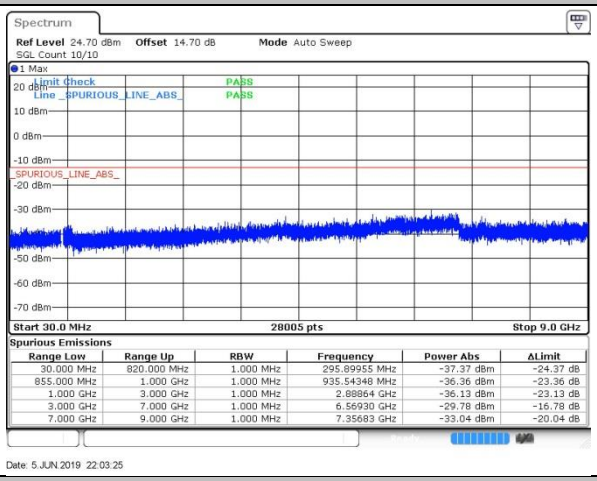


Highest Channel

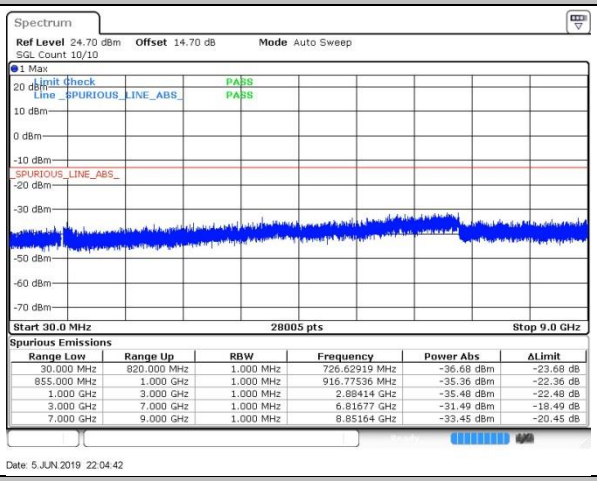


GSM850 (EDGE class 8)

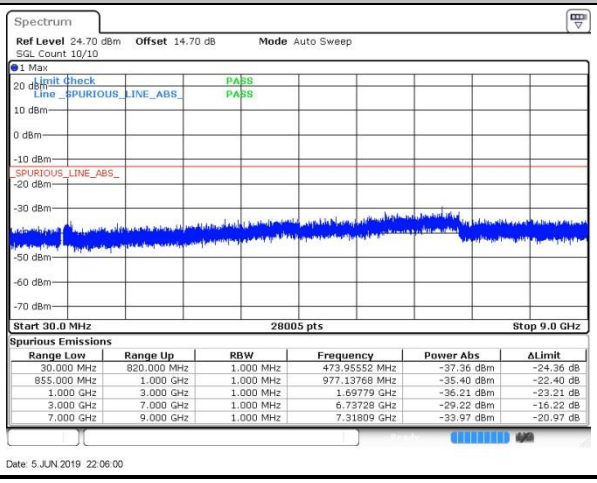
Lowest Channel

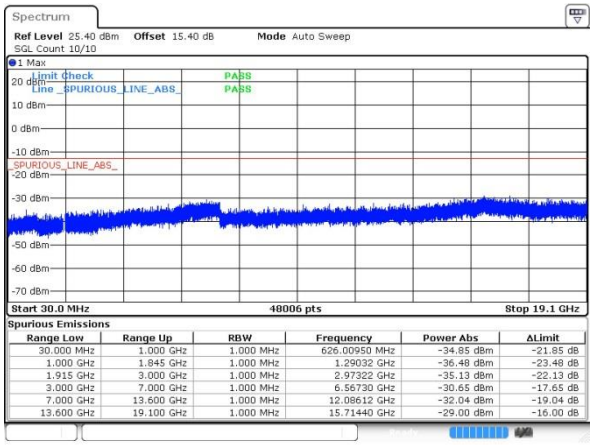
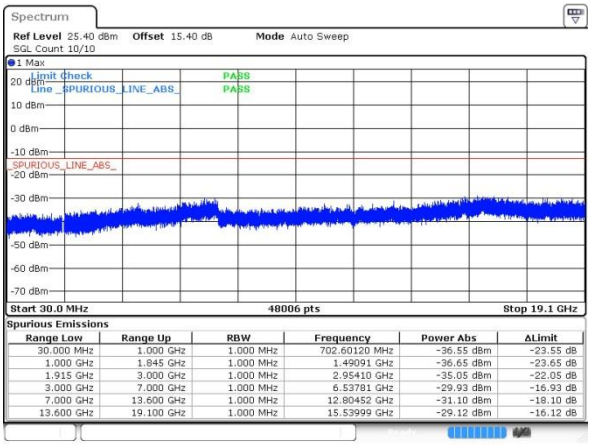
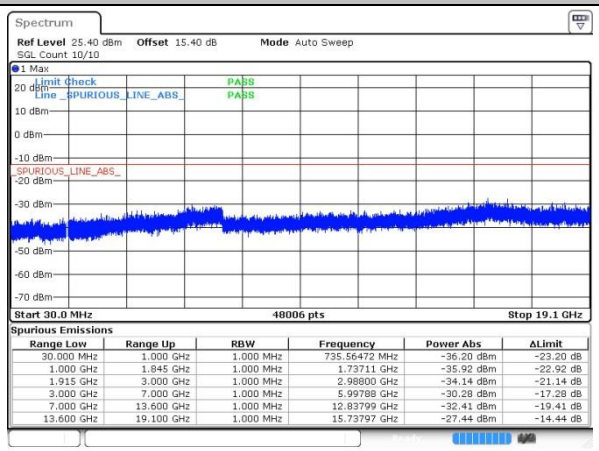
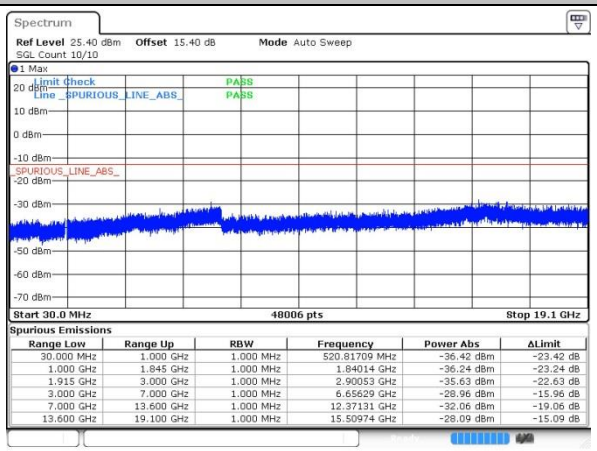
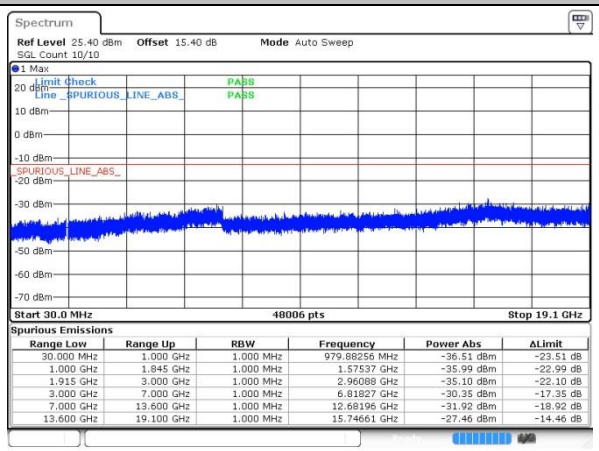
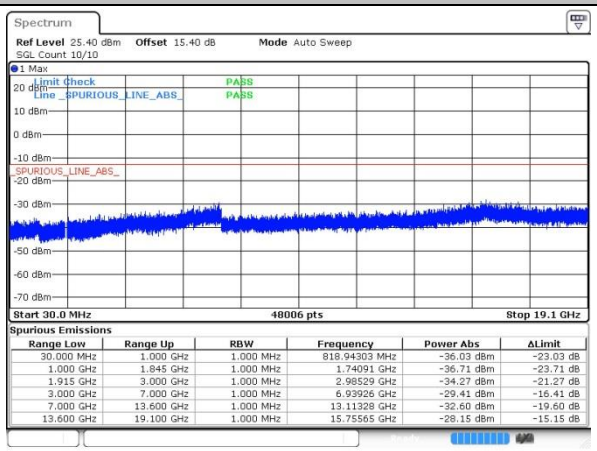


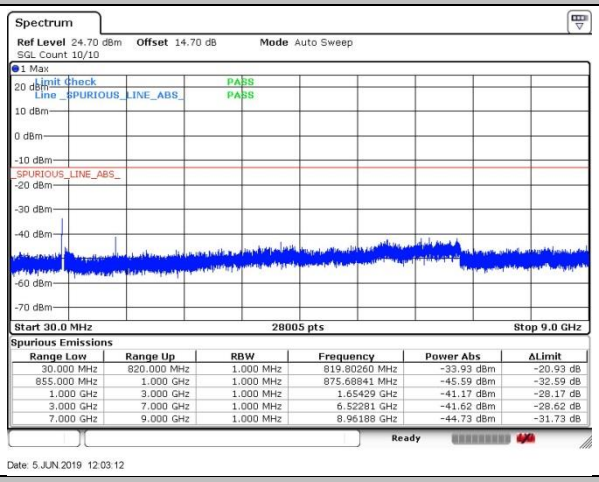
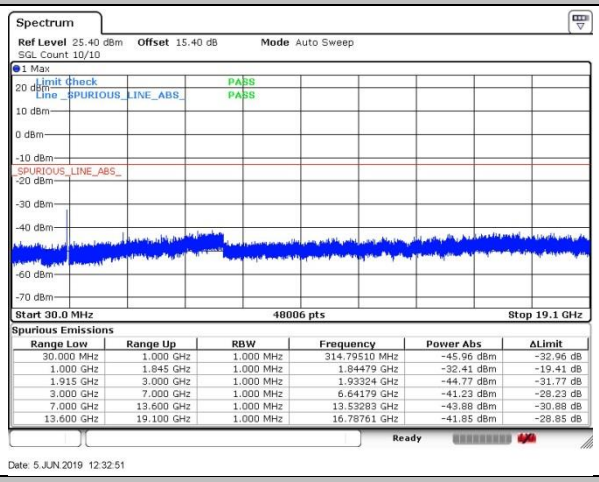
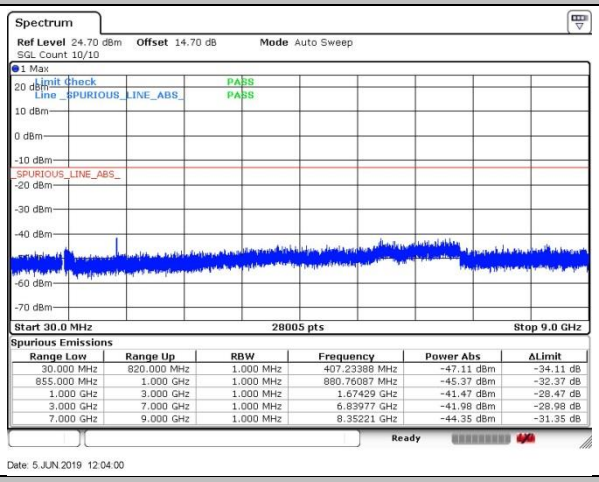
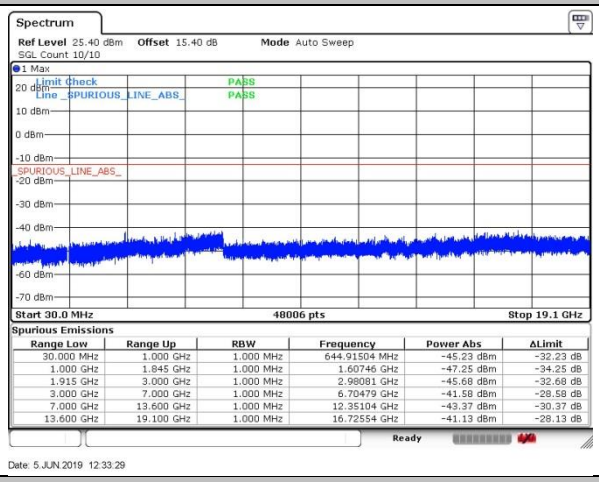
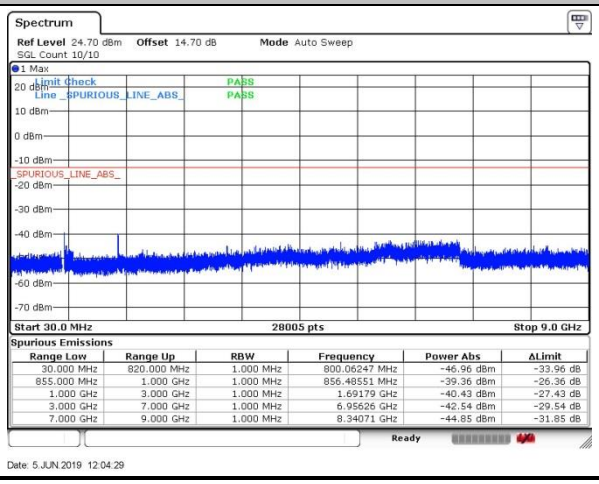
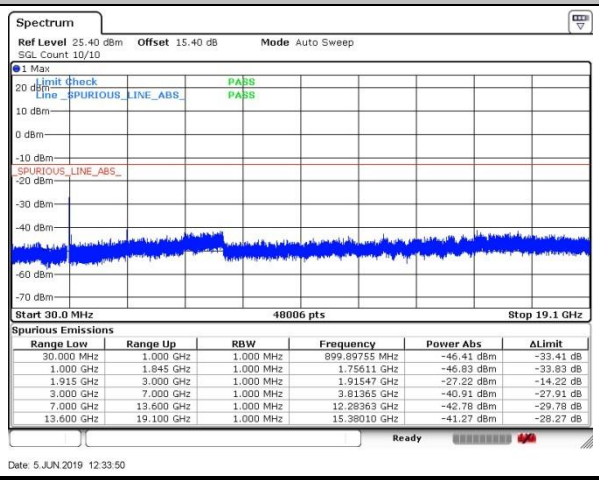
Middle Channel



Highest Channel

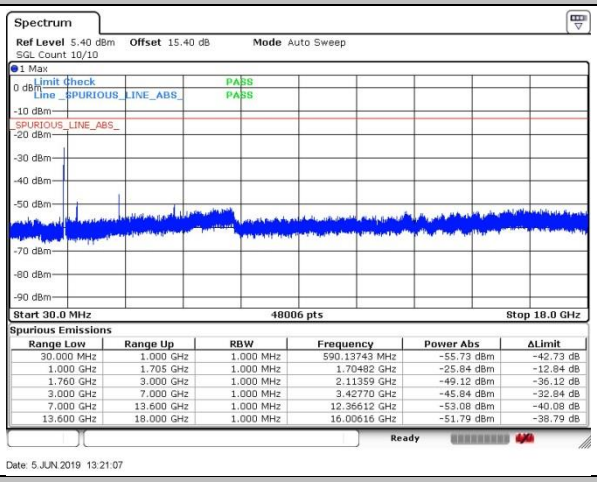


GSM1900 (GSM)	GSM1900 (EDGE class 8)
Lowest Channel	**Lowest Channel**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 626.00950 MHz | -34.85 dBm | -21.85 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.29032 GHz | -36.48 dBm | -23.48 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.97322 GHz | -35.13 dBm | -22.13 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.56730 GHz | -30.65 dBm | -17.65 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 12.08612 GHz | -32.04 dBm | -19.04 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 15.71440 GHz | -29.00 dBm | -16.00 dB Date: 5.JUN.2019 22:21:12	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 702.60120 MHz | -36.55 dBm | -23.55 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.49091 GHz | -36.65 dBm | -23.65 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.95410 GHz | -35.05 dBm | -22.05 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.53781 GHz | -29.93 dBm | -16.93 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 12.80452 GHz | -31.10 dBm | -18.10 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 15.53999 GHz | -29.12 dBm | -16.12 dB Date: 5.JUN.2019 22:35:37
Middle Channel	**Middle Channel**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 735.56472 MHz | -36.20 dBm | -23.20 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.73711 GHz | -35.92 dBm | -22.92 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.98800 GHz | -34.14 dBm | -21.14 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 5.99788 GHz | -30.28 dBm | -17.28 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 12.83799 GHz | -32.41 dBm | -19.41 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 15.73797 GHz | -27.44 dBm | -14.44 dB Date: 5.JUN.2019 22:22:29	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 520.81709 MHz | -36.42 dBm | -23.42 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.84014 GHz | -36.24 dBm | -23.24 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.90053 GHz | -35.63 dBm | -22.63 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.65629 GHz | -28.96 dBm | -15.96 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 12.37131 GHz | -32.06 dBm | -19.06 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 15.50974 GHz | -28.09 dBm | -15.09 dB Date: 5.JUN.2019 22:36:56
Highest Channel	**Highest Channel**
 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 979.88256 MHz | -36.51 dBm | -23.51 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.57537 GHz | -35.99 dBm | -22.99 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.96088 GHz | -35.10 dBm | -22.10 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.81827 GHz | -30.35 dBm | -17.35 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 12.68196 GHz | -31.92 dBm | -18.92 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 15.74661 GHz | -27.46 dBm | -14.46 dB Date: 5.JUN.2019 22:23:46	 Spurious Emissions Range Low | Range Up | RBW | Frequency | Power Abs | ΔLimit 30.000 MHz | 1.000 GHz | 1.000 MHz | 818.94303 MHz | -36.03 dBm | -23.03 dB 1.000 GHz | 1.845 GHz | 1.000 MHz | 1.74091 GHz | -36.71 dBm | -23.71 dB 1.915 GHz | 3.000 GHz | 1.000 MHz | 2.98529 GHz | -34.27 dBm | -21.27 dB 3.000 GHz | 7.000 GHz | 1.000 MHz | 6.93926 GHz | -29.41 dBm | -16.41 dB 7.000 GHz | 13.600 GHz | 1.000 MHz | 13.11328 GHz | -32.60 dBm | -19.60 dB 13.600 GHz | 19.100 GHz | 1.000 MHz | 15.75565 GHz | -28.15 dBm | -15.15 dB Date: 5.JUN.2019 22:38:13

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)

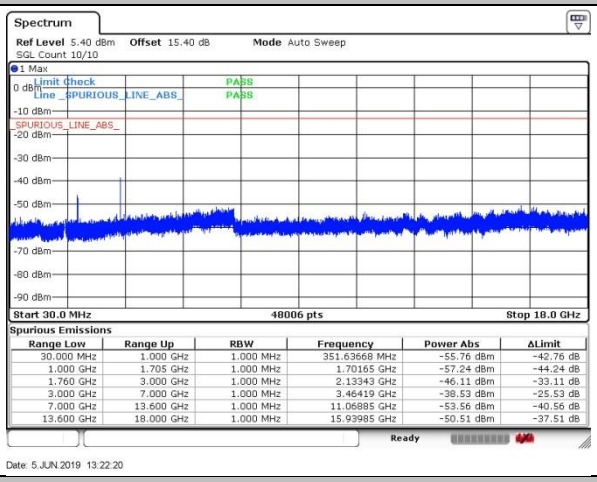
Lowest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	590.13743 MHz	-55.73 dBm	-42.73 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.70482 GHz	-25.84 dBm	-12.84 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.11359 GHz	-49.12 dBm	-36.12 dB
3.000 GHz	7.000 GHz	1.000 MHz	3.42770 GHz	-45.84 dBm	-32.84 dB
7.000 GHz	13.600 GHz	1.000 MHz	12.36612 GHz	-53.08 dBm	-40.08 dB
13.600 GHz	18.000 GHz	1.000 MHz	16.00616 GHz	-51.79 dBm	-38.79 dB

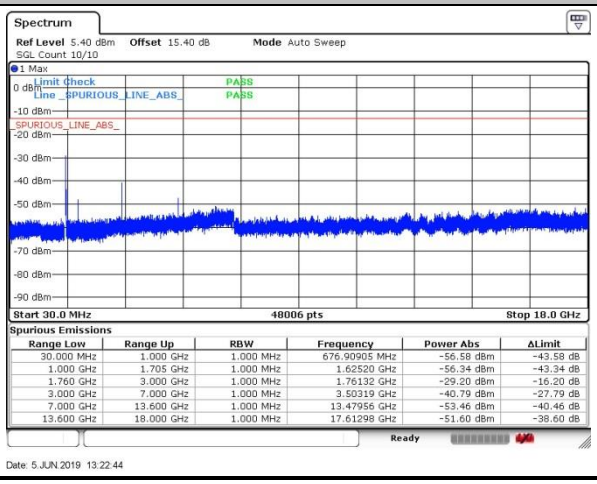
Middle Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	351.63668 MHz	-55.76 dBm	-42.76 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.70165 GHz	-57.24 dBm	-44.24 dB
1.760 GHz	3.000 GHz	1.000 MHz	2.13343 GHz	-46.11 dBm	-33.11 dB
3.000 GHz	7.000 GHz	1.000 MHz	3.46419 GHz	-38.53 dBm	-25.53 dB
7.000 GHz	13.600 GHz	1.000 MHz	11.06885 GHz	-53.56 dBm	-40.56 dB
13.600 GHz	18.000 GHz	1.000 MHz	15.93985 GHz	-50.51 dBm	-37.51 dB

Highest Channel



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	676.90905 MHz	-56.58 dBm	-43.58 dB
1.000 GHz	1.705 GHz	1.000 MHz	1.62520 GHz	-56.34 dBm	-43.34 dB
1.760 GHz	3.000 GHz	1.000 MHz	1.76132 GHz	-29.20 dBm	-16.20 dB
3.000 GHz	7.000 GHz	1.000 MHz	3.50319 GHz	-40.79 dBm	-27.79 dB
7.000 GHz	13.600 GHz	1.000 MHz	13.47956 GHz	-53.46 dBm	-40.46 dB
13.600 GHz	18.000 GHz	1.000 MHz	17.61298 GHz	-51.60 dBm	-38.60 dB

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	0.0048	0.0060	PASS
40	Normal Voltage	0.0526	0.0167	
30	Normal Voltage	0.0120	0.0538	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0574	0.0335	
0	Normal Voltage	0.0191	0.0538	
-10	Normal Voltage	0.0084	0.0466	
-20	Normal Voltage	0.0143	0.0167	
-30	Normal Voltage	0.0108	0.0478	
20	Maximum Voltage	0.0466	0.0514	
20	Normal Voltage	0.0155	0.0132	
20	Battery End Point	0.0395	0.0395	

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	0.0053	0.0005	PASS
40	Normal Voltage	0.0016	0.0016	
30	Normal Voltage	0.0027	0.0021	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0170	0.0255	
0	Normal Voltage	0.0074	0.0186	
-10	Normal Voltage	0.0160	0.0011	
-20	Normal Voltage	0.0218	0.0037	
-30	Normal Voltage	0.0005	0.0213	
20	Maximum Voltage	0.0053	0.0160	
20	Normal Voltage	0.0021	0.0016	
20	Battery End Point	0.0133	0.0011	

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 12.2KbpsRMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0395	
30	Normal Voltage	0.0442	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0072	
0	Normal Voltage	0.0323	
-10	Normal Voltage	0.0048	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0311	
20	Maximum Voltage	0.0442	
20	Normal Voltage	0.0155	
20	Battery End Point	0.0012	

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	0.0186	PASS
40	Normal Voltage	0.0128	
30	Normal Voltage	0.0165	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0117	
0	Normal Voltage	0.0154	
-10	Normal Voltage	0.0239	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0117	
20	Maximum Voltage	0.0165	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0032	

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 IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0156	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0012	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0150	
-20	Normal Voltage	0.0167	
-30	Normal Voltage	0.0092	
20	Maximum Voltage	0.0092	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0167	

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	-47.70	-13	-34.70	-54.67	1.58	10.70	H
	2510	-53.63	-13	-40.63	-61.88	2.102	12.50	H
	3348	-64.97	-13	-51.97	-73.86	2.856	13.90	H
	1672	-45.01	-13	-32.01	-51.98	1.58	10.70	V
	2510	-51.73	-13	-38.73	-59.98	2.10	12.50	V
	3348	-64.68	-13	-51.68	-73.57	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	-48.23	-13	-35.23	-55.20	1.58	10.70	H
	2510	-53.51	-13	-40.51	-61.76	2.102	12.50	H
	3348	-64.86	-13	-51.86	-73.75	2.856	13.90	H
	1672	-45.28	-13	-32.28	-52.25	1.58	10.70	V
	2510	-53.39	-13	-40.39	-61.64	2.10	12.50	V
	3348	-64.97	-13	-51.97	-73.86	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	3759	-60.35	-13	-47.35	-72.61	2.641	14.90	H
	5640	-58.04	-13	-45.04	-69.90	2.94	14.80	H
	7524	-53.09	-13	-40.09	-62.86	3.39	13.16	H
	3759	-60.04	-13	-47.04	-72.30	2.64	14.90	V
	5640	-57.53	-13	-44.53	-69.39	2.94	14.80	V
	7524	-52.72	-13	-39.72	-62.49	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	-60.28	-13	-47.28	-72.54	2.641	14.90	H
	5640	-57.78	-13	-44.78	-69.64	2.94	14.80	H
	7524	-53.31	-13	-40.31	-63.08	3.39	13.16	H
	3759	-60.05	-13	-47.05	-72.31	2.64	14.90	V
	5640	-57.70	-13	-44.70	-69.56	2.94	14.80	V
	7524	-52.72	-13	-39.72	-62.49	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	-68.60	-13	-55.60	-75.57	1.58	10.70	H
	2509.2	-65.09	-13	-52.09	-73.34	2.102	12.50	H
	3348	-62.01	-13	-49.01	-70.90	2.856	13.90	H
	1672.8	-67.93	-13	-54.93	-74.90	1.58	10.70	V
	2510	-65.06	-13	-52.06	-73.31	2.10	12.50	V
	3348	-61.68	-13	-48.68	-70.57	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	-60.19	-13	-47.19	-72.45	2.641	14.90	H
	5640	-57.94	-13	-44.94	-69.80	2.94	14.80	H
	7524	-53.31	-13	-40.31	-63.08	3.39	13.16	H
	3759	-60.21	-13	-47.21	-72.47	2.64	14.90	V
	5640	-57.69	-13	-44.69	-69.55	2.94	14.80	V
	7524	-52.71	-13	-39.71	-62.48	3.39	13.16	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	-62.96	-13	-49.96	-73.70	2.604	13.34	H
	5199	-59.52	-13	-46.52	-70.03	3.011	13.52	H
	6936	-55.12	-13	-42.12	-65.32	3.271	13.47	H
	3465	-63.10	-13	-50.10	-73.84	2.604	13.34	V
	5199	-59.33	-13	-46.33	-69.84	3.011	13.52	V
	6936	-55.29	-13	-42.29	-65.49	3.271	13.47	V

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