



GSM1900 (GSM)

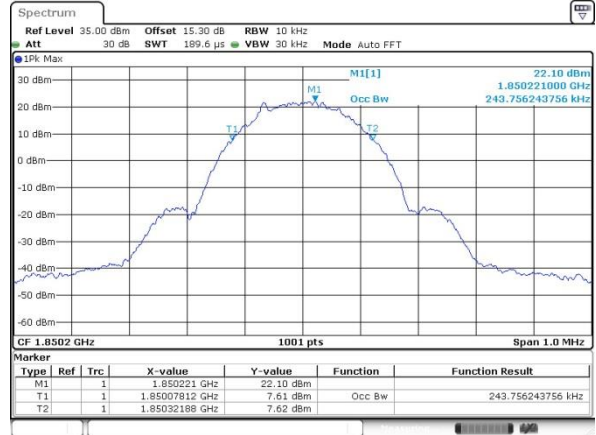
Lowest Channel



Date: 21 MAY 2018 14:25:56

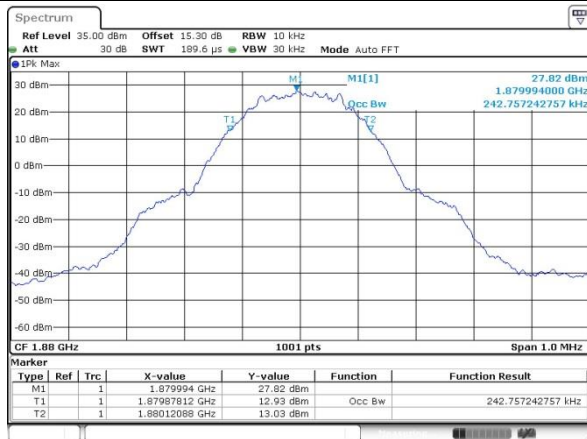
GSM1900 (EDGE class 8)

Lowest Channel



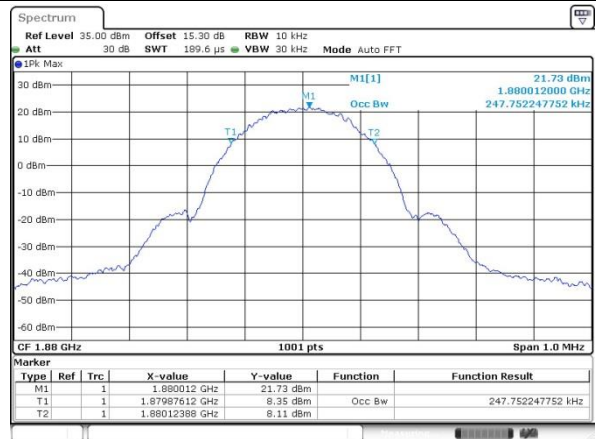
Date: 21 MAY 2018 14:53:52

Middle Channel



Date: 21 MAY 2018 14:26:24

Middle Channel



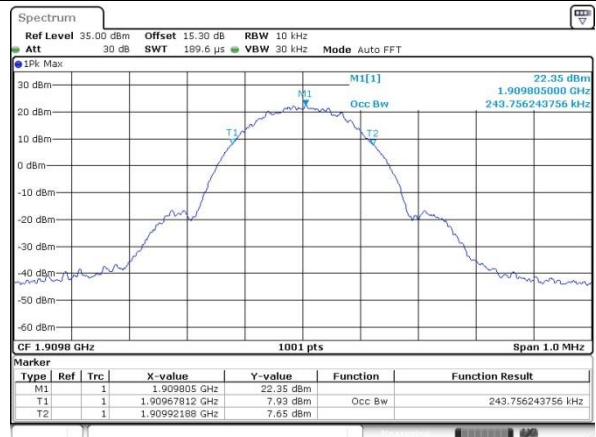
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Highest Channel



Date: 21 MAY 2018 14:26:52

Highest Channel

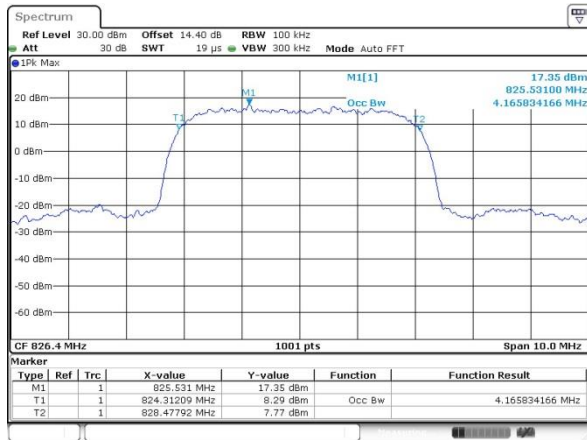


Date: 21 MAY 2018 14:55:47



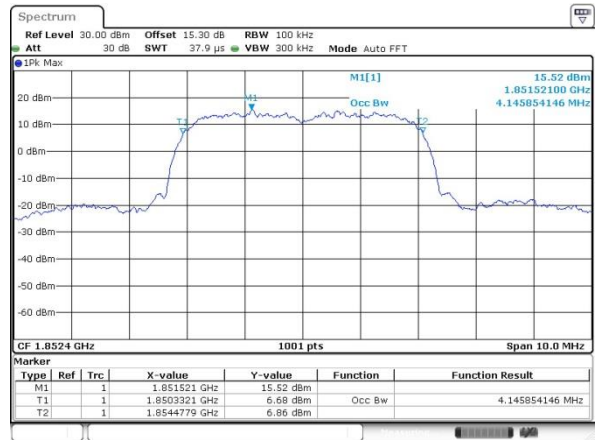
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel



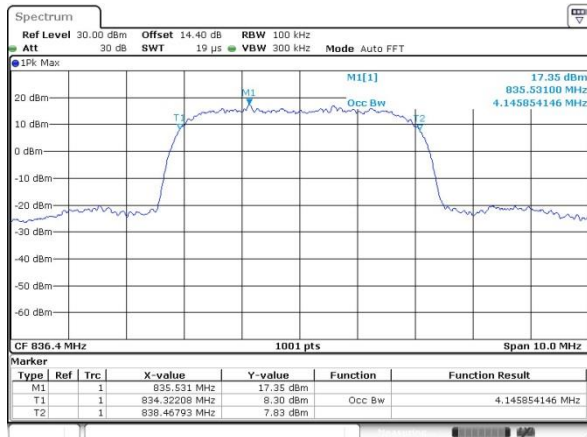
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel

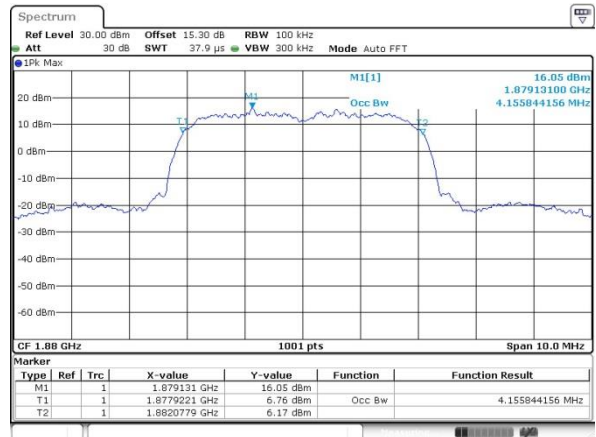


Date: 21 MAY 2018 15:27:37

Middle Channel

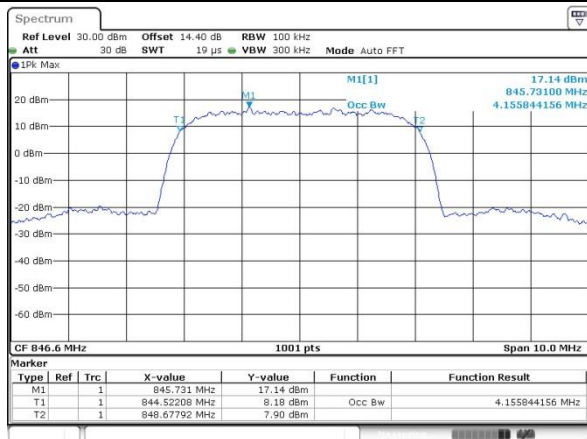


Middle Channel

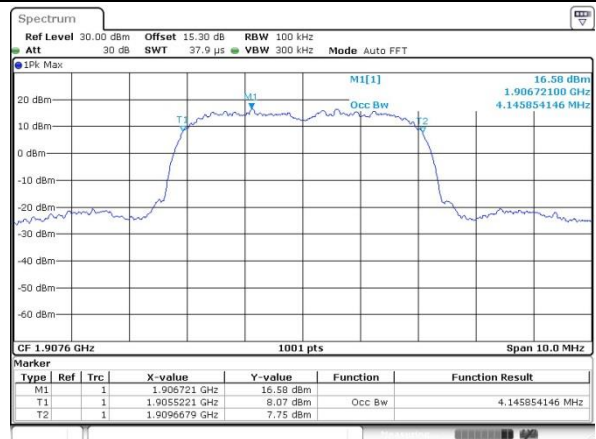


Date: 21 MAY 2018 15:28:05

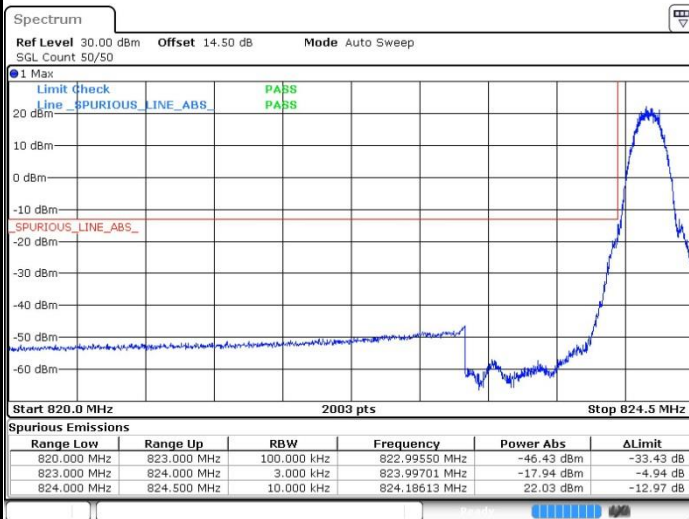
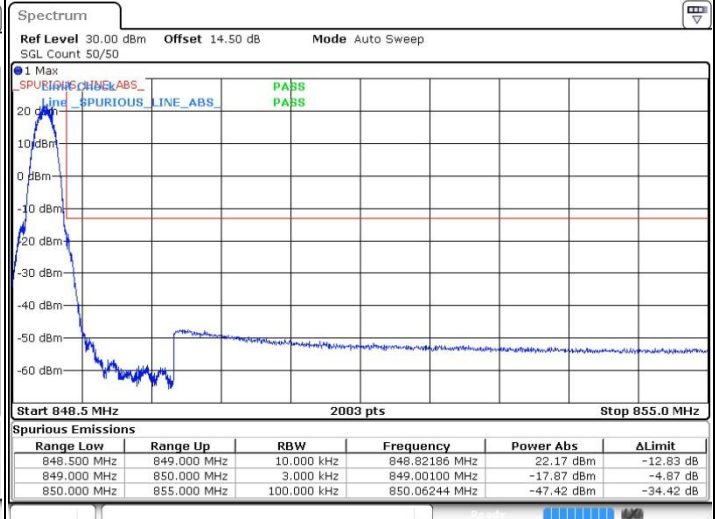
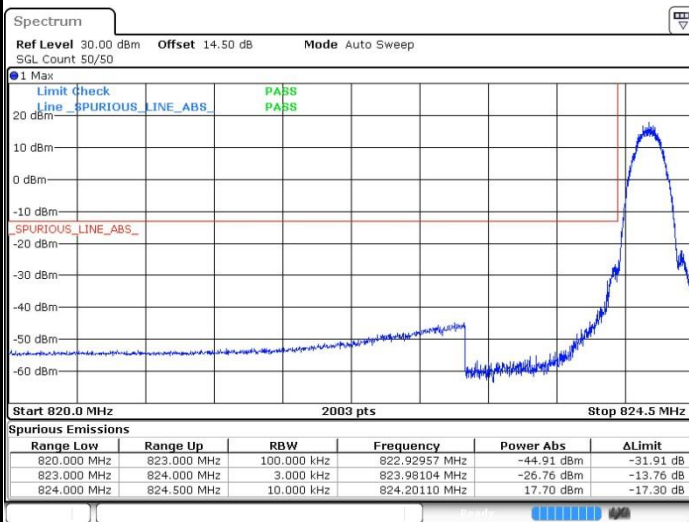
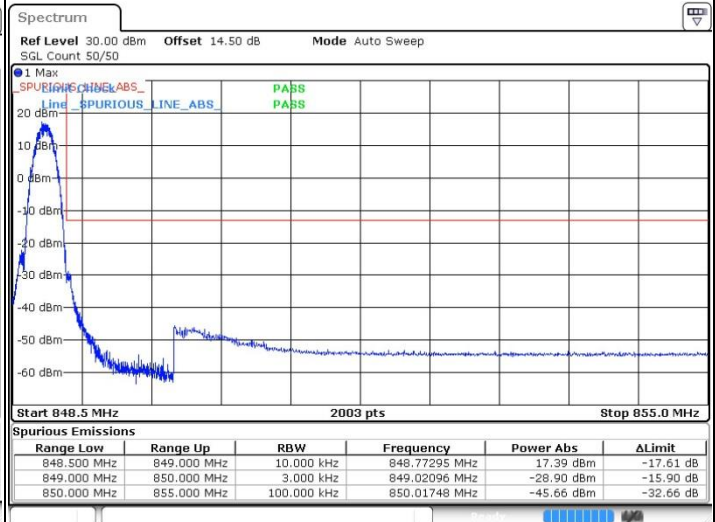
Highest Channel



Highest Channel



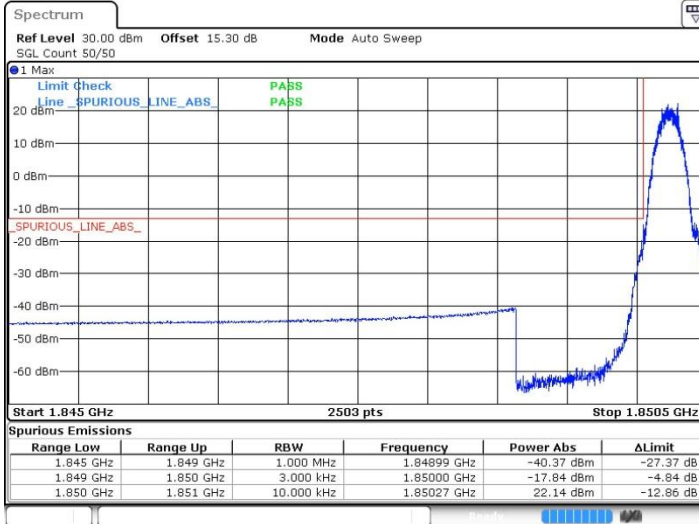
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**Conducted Band Edge****GSM850 (GSM)****Lowest Band Edge****Highest Band Edge****GSM850 (EDGE class 8)****Lowest Band Edge****Highest Band Edge**

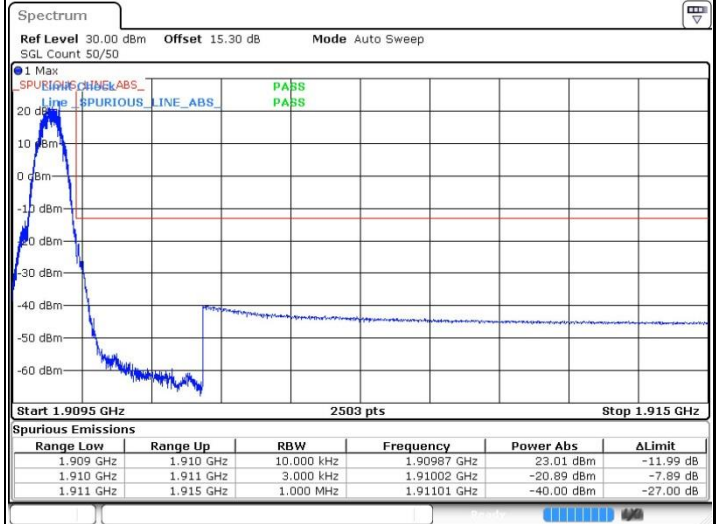


GSM1900 (GSM)

Lowest Band Edge

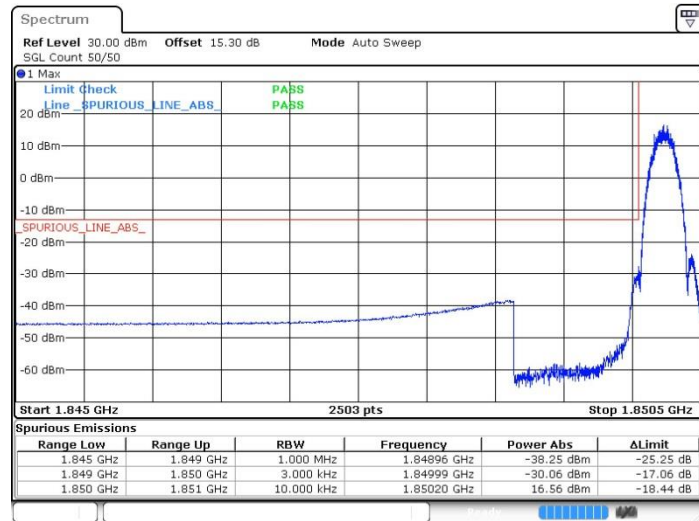


Highest Band Edge

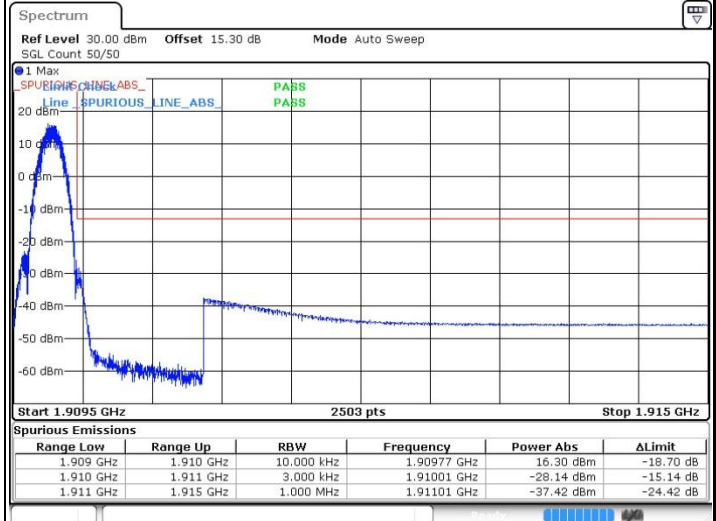


GSM1900 (EDGE class 8)

Lowest Band Edge



Highest Band Edge





WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

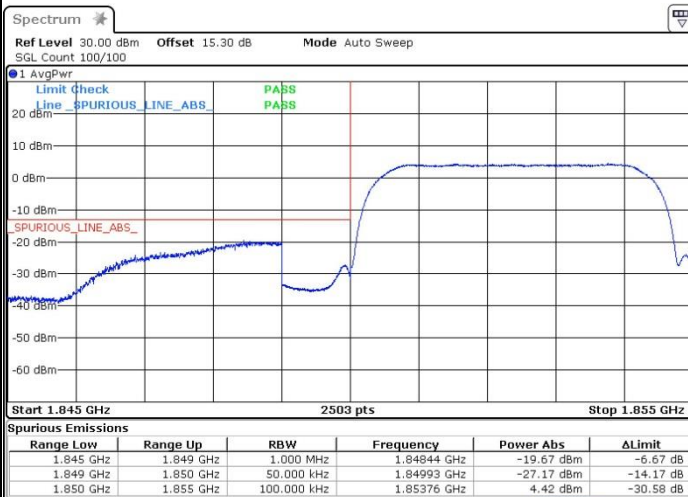


Highest Band Edge



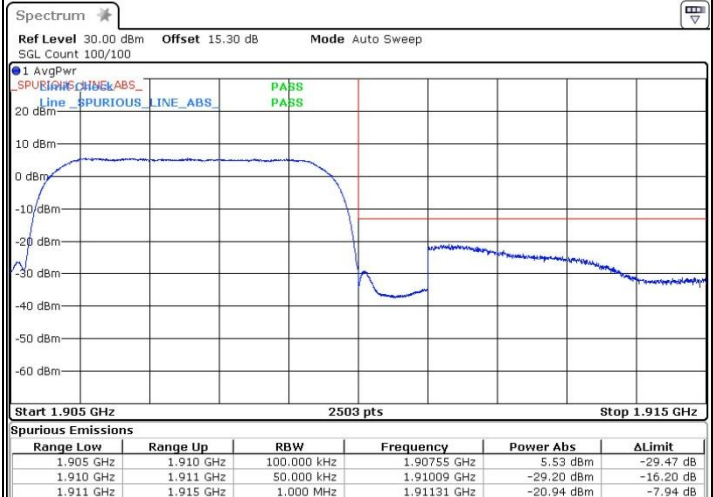
WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Date: 21.MAY.2018 15:23:42

Highest Band Edge



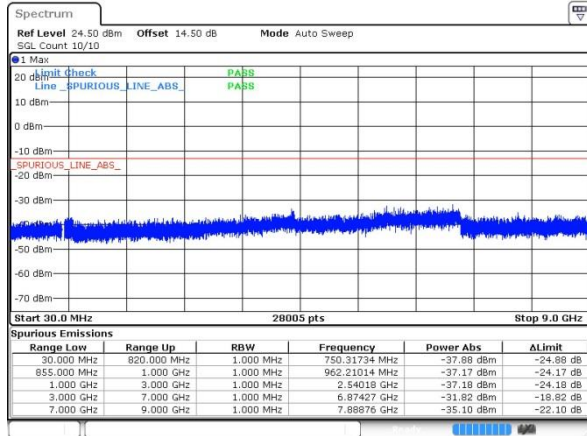
Date: 21.MAY.2018 15:26:24



Conducted Spurious Emission

GSM850 (GSM)

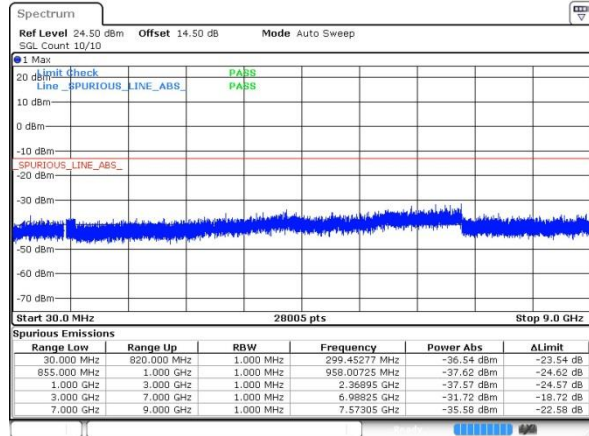
Lowest Channel



Date: 21 MAY 2018 12:08:42

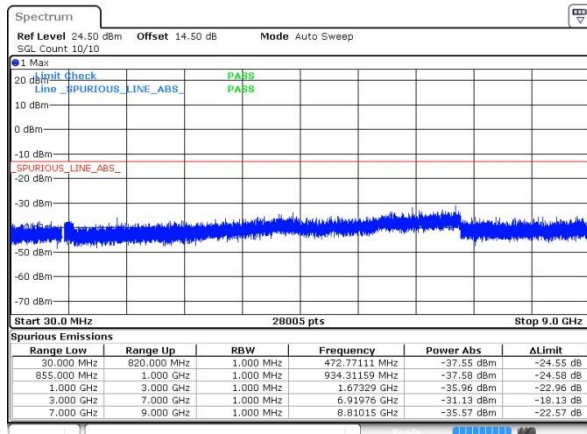
GSM850 (EDGE class 8)

Lowest Channel



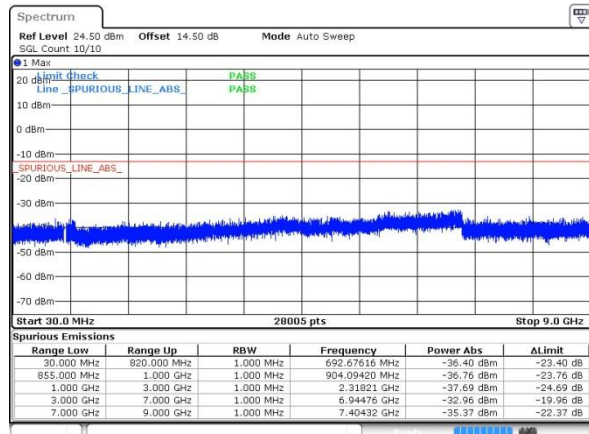
Date: 21 MAY 2018 14:14:38

Middle Channel



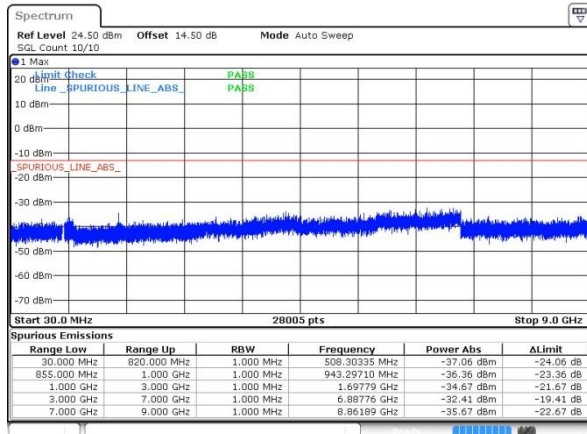
Date: 21 MAY 2018 12:08:57

Middle Channel



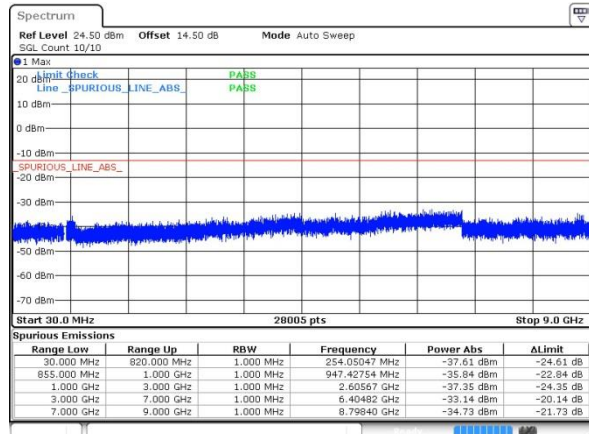
Date: 21 MAY 2018 14:17:17

Highest Channel



Date: 21 MAY 2018 12:11:12

Highest Channel

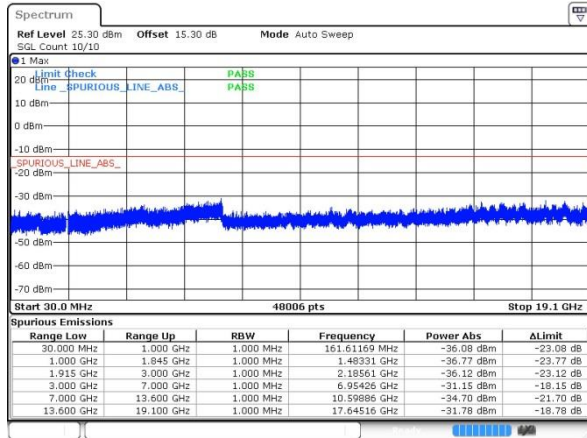


Date: 21 MAY 2018 14:18:59



GSM1900 (GSM)

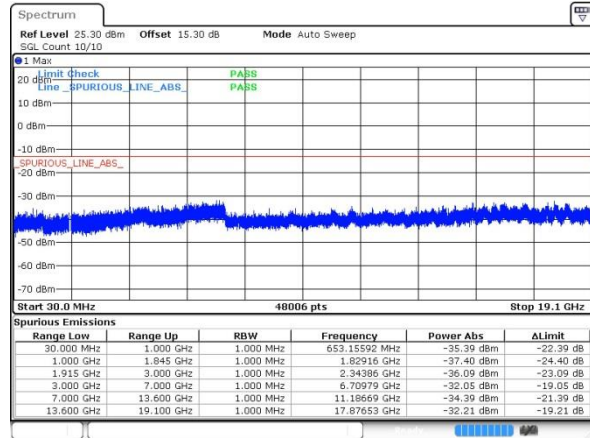
Lowest Channel



Date: 21 MAY 2018 14:32:37

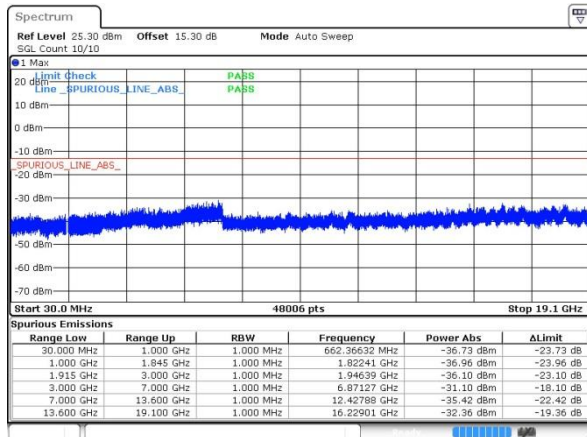
GSM1900 (EDGE class 8)

Lowest Channel



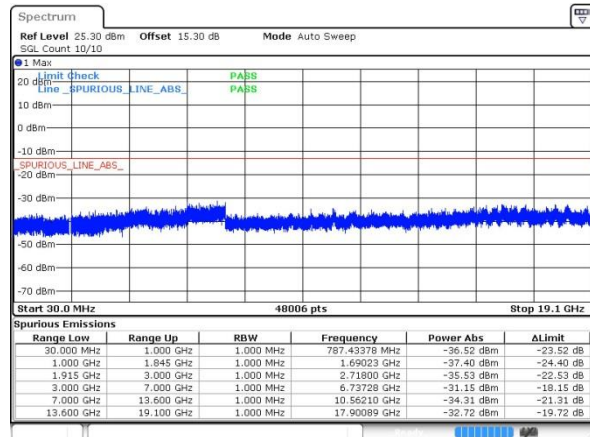
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Middle Channel



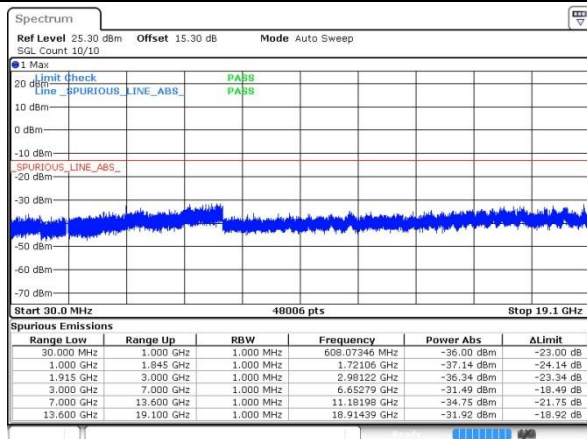
Date: 21 MAY 2018 14:33:53

Middle Channel



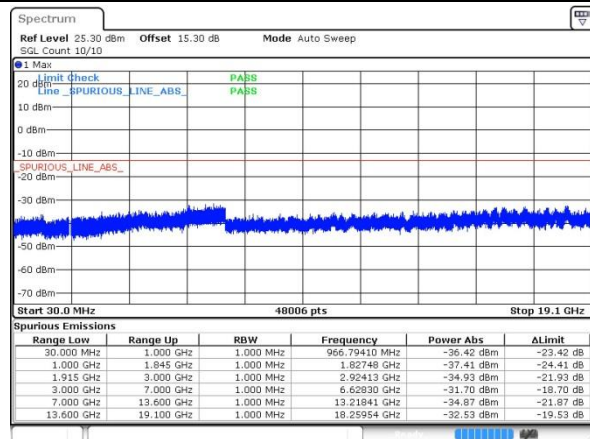
Date: 21 MAY 2018 15:05:15

Highest Channel



Date: 21 MAY 2018 14:35:08

Highest Channel

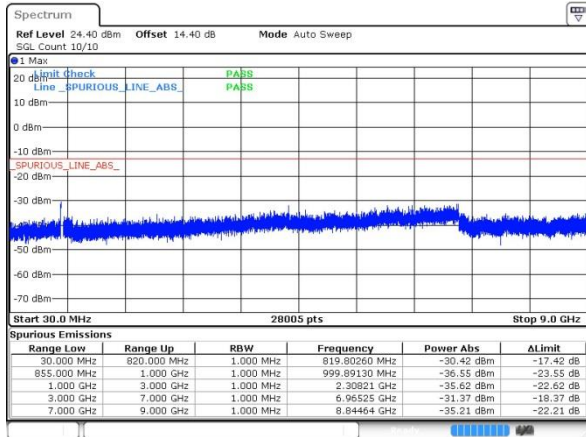


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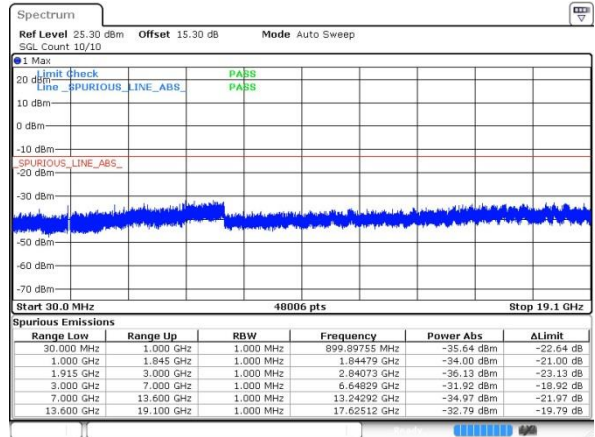
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel



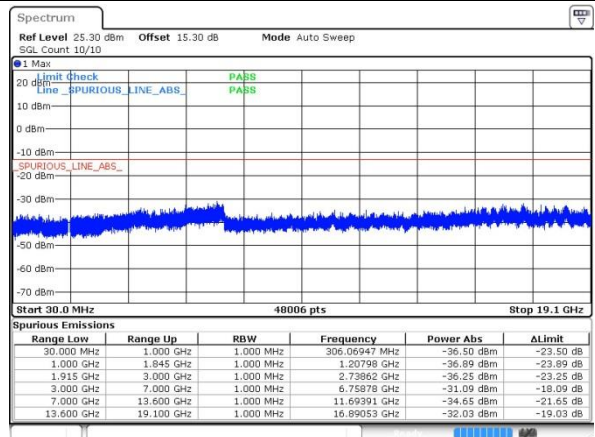
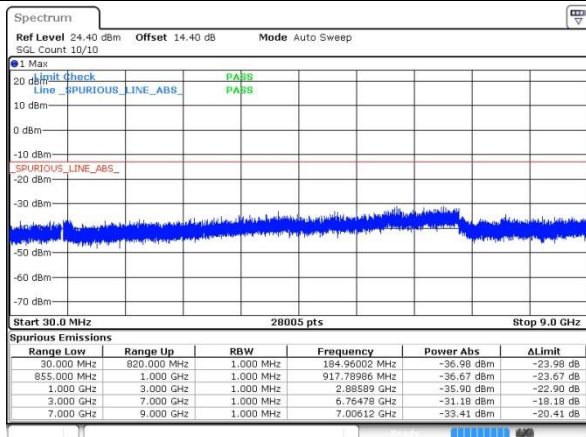
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



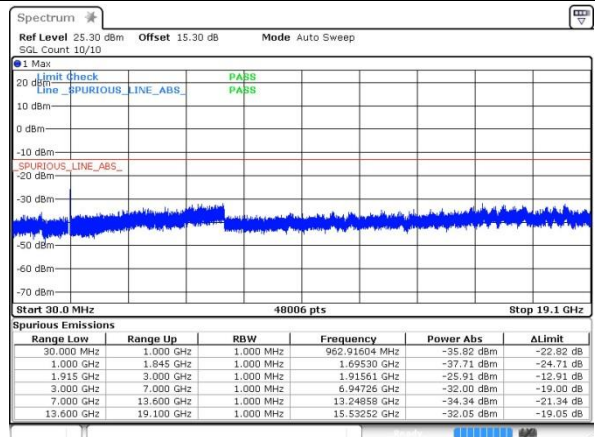
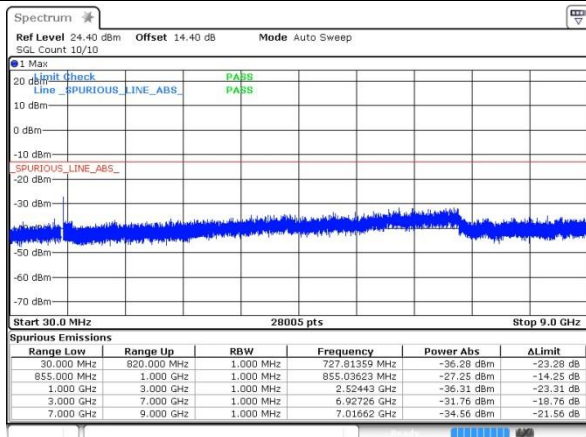
Date: 21 MAY 2018 15:30:03

Middle Channel



Date: 21 MAY 2018 15:31:19

Highest Channel



Date: 21 MAY 2018 15:32:34

**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	0.0060	0.0454	PASS
40	Normal Voltage	0.0060	0.0299	
30	Normal Voltage	0.0335	0.0060	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0371	0.0299	
0	Normal Voltage	0.0311	0.0335	
-10	Normal Voltage	0.0072	0.0407	
-20	Normal Voltage	0.0012	0.0275	
-30	Normal Voltage	0.0359	0.0263	
20	Maximum Voltage	0.0227	0.0048	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0359	0.0060	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0016	0.0122	PASS
40	Normal Voltage	0.0016	0.0106	
30	Normal Voltage	0.0090	0.0037	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0043	0.0144	
0	Normal Voltage	0.0064	0.0074	
-10	Normal Voltage	0.0122	0.0101	
-20	Normal Voltage	0.0037	0.0027	
-30	Normal Voltage	0.0138	0.0074	
20	Maximum Voltage	0.0011	0.0059	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0117	0.0016	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.4V. ; 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	0.0335	PASS
40	Normal Voltage	0.0287	
30	Normal Voltage	0.0383	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0132	
0	Normal Voltage	0.0024	
-10	Normal Voltage	0.0418	
-20	Normal Voltage	0.0323	
-30	Normal Voltage	0.0084	
20	Maximum Voltage	0.0359	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0012	

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	0.0101	
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	0.0005	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 3.8V. ; Battery End Point (BEP) =3.4V. ; 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 Conducted Test

Radiated Spurious Emission

<Normal>

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	1674	-52.45	-13	-39.45	-54.36	1.14	5.20	H
	2510	-53.09	-13	-40.09	-55.72	1.12	5.90	H
	3348	-60.31	-13	-47.31	-63.52	1.34	6.70	H
	1672	-47.70	-13	-34.70	-49.61	1.14	5.20	V
	2510	-52.39	-13	-39.39	-55.02	1.12	5.90	V
	3348	-60.04	-13	-47.04	-63.25	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	-49.52	-13	-36.52	-51.43	1.14	5.20	H
	2510	-61.12	-13	-48.12	-63.75	1.12	5.90	H
	3348	-60.16	-13	-47.16	-63.37	1.34	6.70	H
	1672	-49.35	-13	-36.35	-51.26	1.14	5.20	V
	2510	-60.55	-13	-47.55	-63.18	1.12	5.90	V
	3348	-60.22	-13	-47.22	-63.43	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	-33.76	-13	-20.76	-35.48	5.08	6.80	H
	5640	-54.19	-13	-41.19	-55.86	8.03	9.70	H
	7521	-48.31	-13	-35.31	-50.69	9.43	11.81	H
	3759	-43.35	-13	-30.35	-45.07	5.08	6.80	V
	5640	-55.96	-13	-42.96	-57.63	8.03	9.70	V
	7521	-50.02	-13	-37.02	-52.40	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	-39.69	-13	-26.69	-41.41	5.08	6.80	H
	5640	-55.95	-13	-42.95	-57.62	8.03	9.70	H
	7521	-50.51	-13	-37.51	-52.89	9.43	11.81	H
	3759	-49.96	-13	-36.96	-51.68	5.08	6.80	V
	5640	-55.89	-13	-42.89	-57.56	8.03	9.70	V
	7521	-50.59	-13	-37.59	-52.97	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	-63.94	-13	-50.94	-65.85	1.14	5.20	H
	2510	-61.02	-13	-48.02	-63.65	1.12	5.90	H
	3348	-59.71	-13	-46.71	-62.92	1.34	6.70	H
	1672	-63.33	-13	-50.33	-65.24	1.14	5.20	V
	2510	-60.46	-13	-47.46	-63.09	1.12	5.90	V
	3348	-60.25	-13	-47.25	-63.46	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	-58.07	-13	-45.07	-59.79	5.08	6.80	H
	5640	-56.23	-13	-43.23	-57.90	8.03	9.70	H
	7521	-51.06	-13	-38.06	-53.44	9.43	11.81	H
	3759	-58.56	-13	-45.56	-60.28	5.08	6.80	V
	5640	-55.95	-13	-42.95	-57.62	8.03	9.70	V
	7521	-50.96	-13	-37.96	-53.34	9.43	11.81	V

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



<Battery module 3620>

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	-49.93	-13	-36.93	-51.84	1.14	5.20	H
	2510	-55.68	-13	-42.68	-58.31	1.12	5.90	H
	3348	-60.02	-13	-47.02	-63.23	1.34	6.70	H
	1672	-47.39	-13	-34.39	-49.30	1.14	5.20	V
	2510	-51.39	-13	-38.39	-54.02	1.12	5.90	V
	3348	-60.27	-13	-47.27	-63.48	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	-33.86	-13	-20.86	-35.58	5.08	6.80	H
	5640	-55.44	-13	-42.44	-57.11	8.03	9.70	H
	7521	-44.63	-13	-31.63	-47.01	9.43	11.81	H
	3759	-39.50	-13	-26.50	-41.22	5.08	6.80	V
	5640	-55.64	-13	-42.64	-57.31	8.03	9.70	V
	7521	-43.37	-13	-30.37	-45.75	9.43	11.81	V

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



<Battery module 4370>

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	-49.59	-13	-36.59	-51.50	1.14	5.20	H
	2510	-52.46	-13	-39.46	-55.09	1.12	5.90	H
	3348	-59.90	-13	-46.90	-63.11	1.34	6.70	H
	1672	-47.40	-13	-34.40	-49.31	1.14	5.20	V
	2510	-51.34	-13	-38.34	-53.97	1.12	5.90	V
	3348	-60.27	-13	-47.27	-63.48	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	-31.91	-13	-18.91	-33.63	5.08	6.80	H
	5640	-54.85	-13	-41.85	-56.52	8.03	9.70	H
	7521	-41.04	-13	-28.04	-43.42	9.43	11.81	H
	3759	-32.68	-13	-19.68	-34.40	5.08	6.80	V
	5640	-55.71	-13	-42.71	-57.38	8.03	9.70	V
	7521	-42.57	-13	-29.57	-44.95	9.43	11.81	V

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