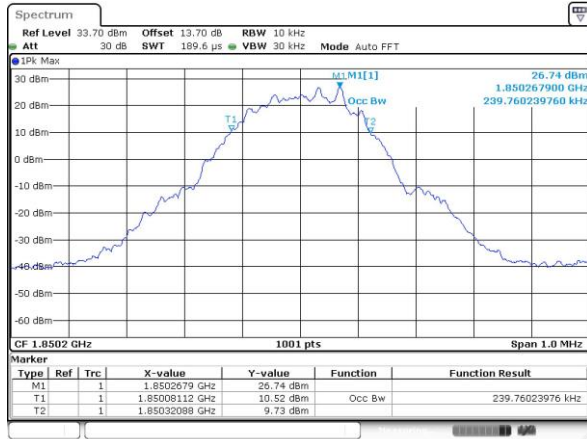




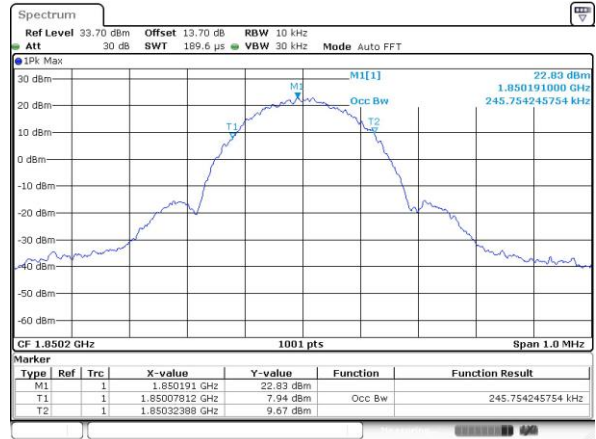
GSM1900 (GSM)

Lowest Channel

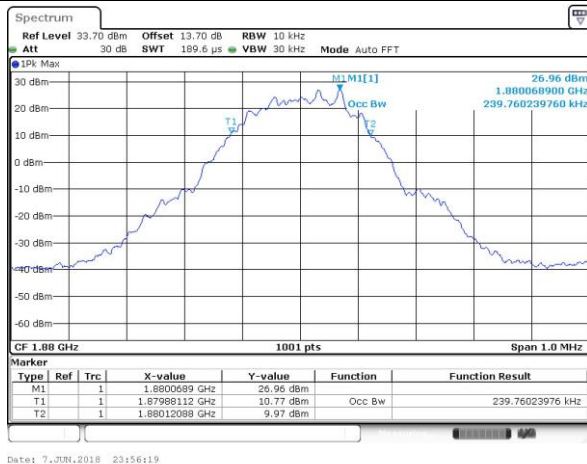


GSM1900 (EDGE class 8)

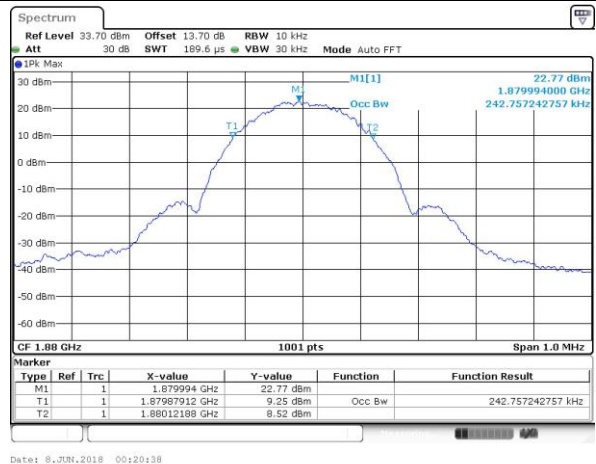
Lowest Channel



Middle Channel



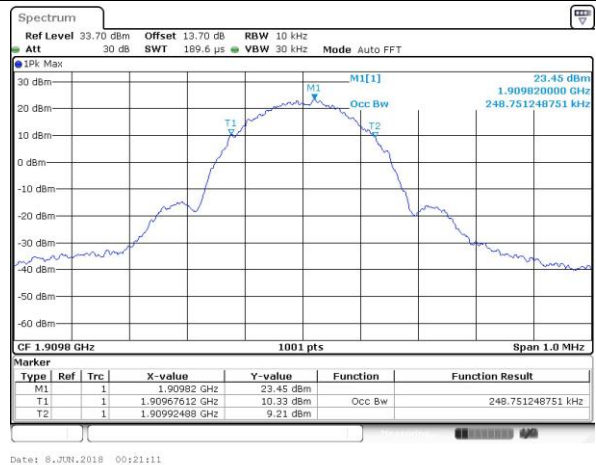
Middle Channel



Highest Channel



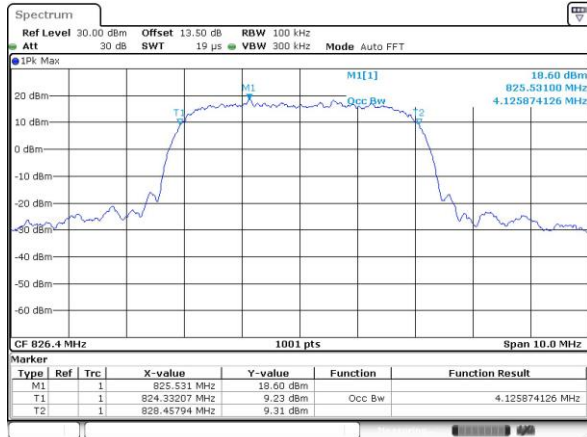
Highest Channel





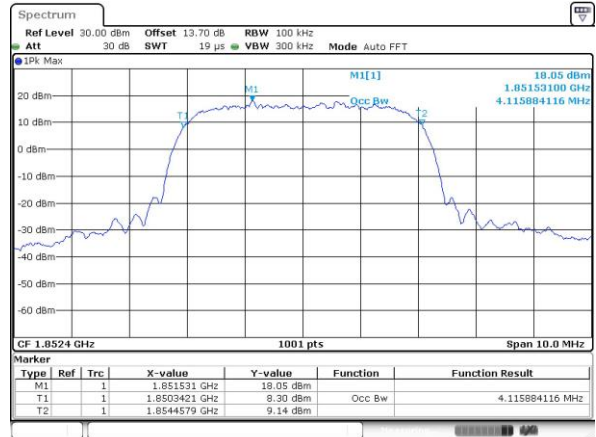
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

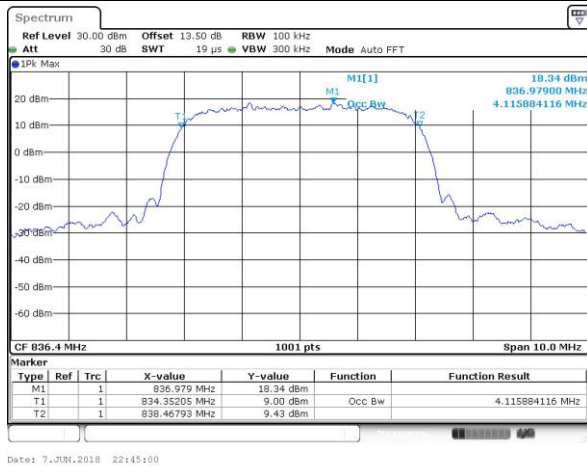


WCDMA Band II (RMC 12.2Kbps)

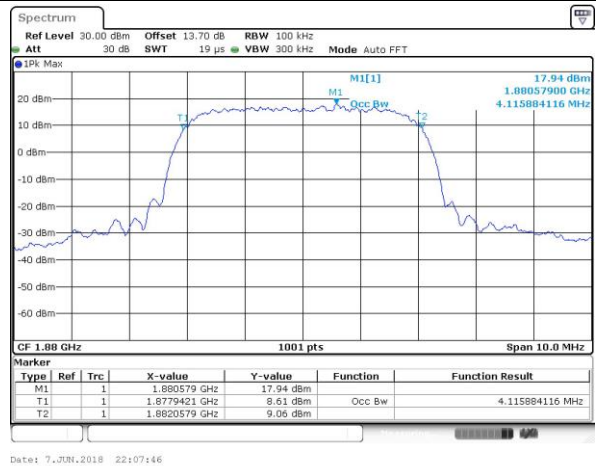
Lowest Channel



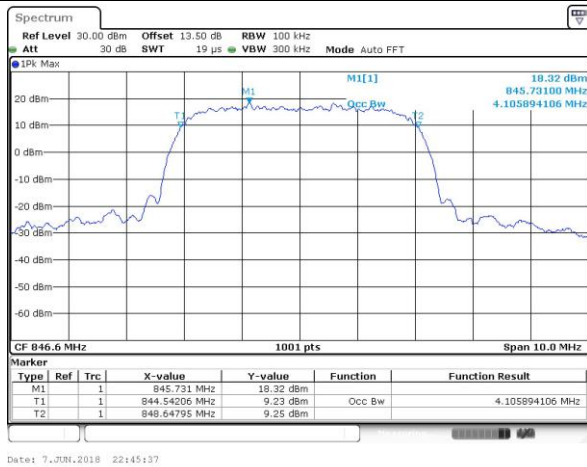
Middle Channel



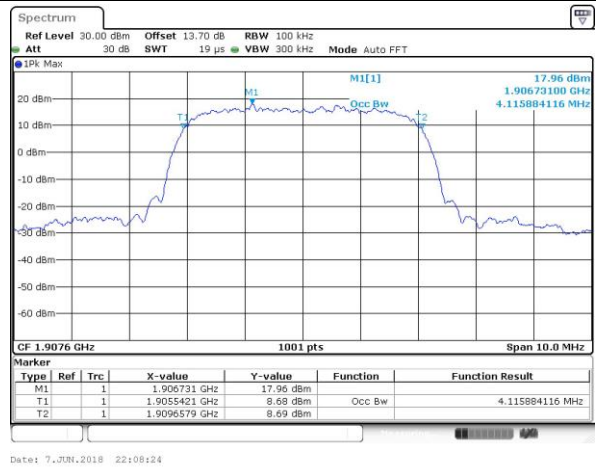
Middle Channel



Highest Channel



Highest Channel

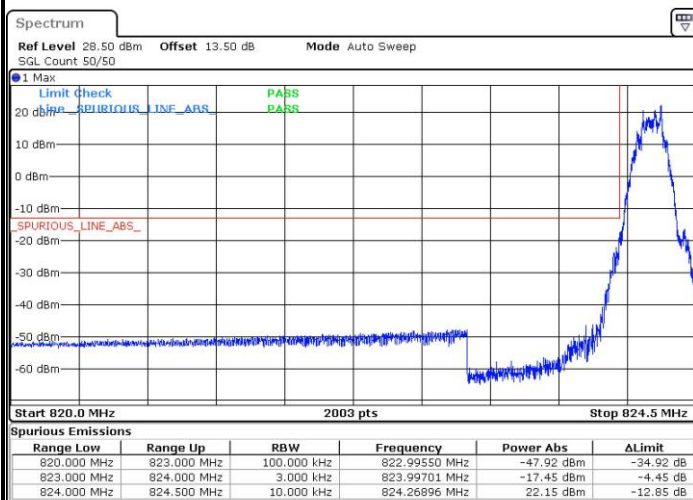




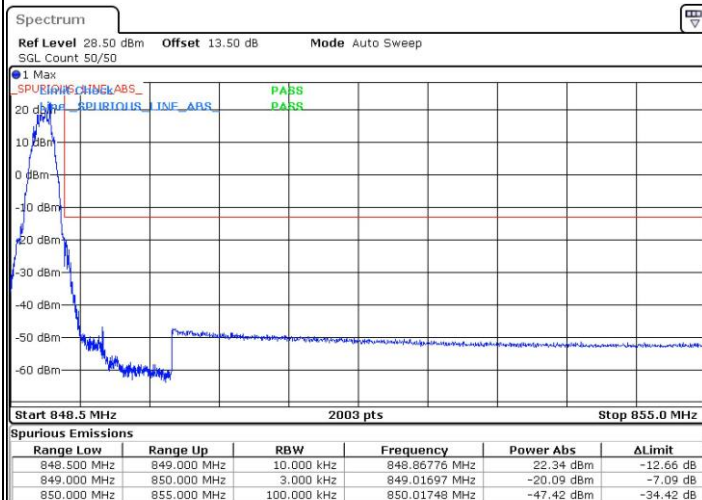
Conducted Band Edge

GSM850 (GSM)

Lowest Band Edge

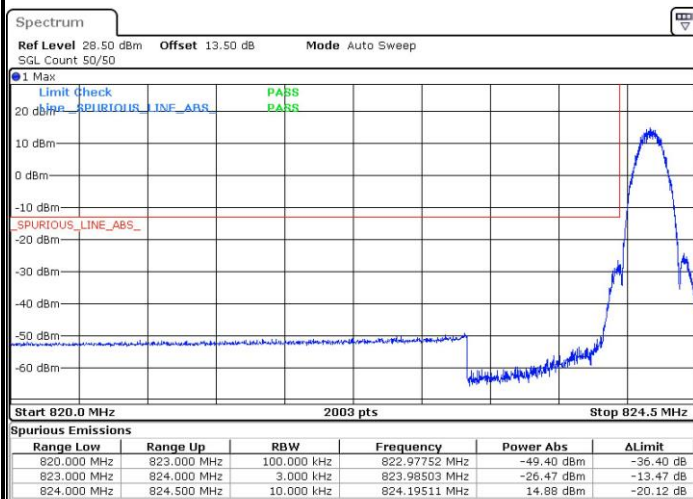


Highest Band Edge

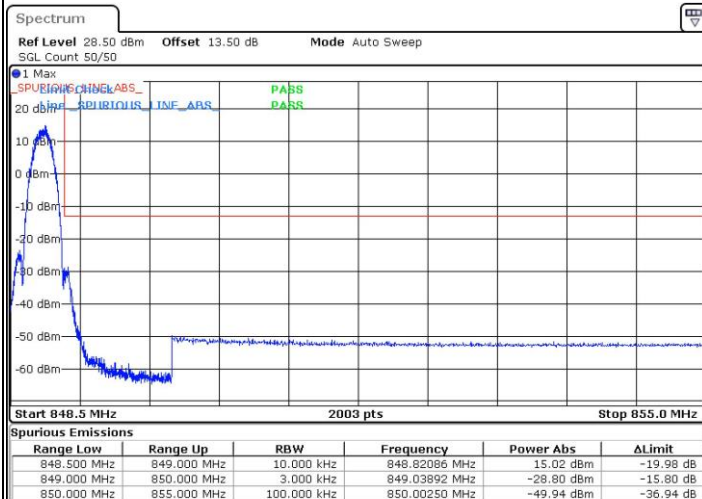


GSM850 (EDGE class 8)

Lowest Band Edge



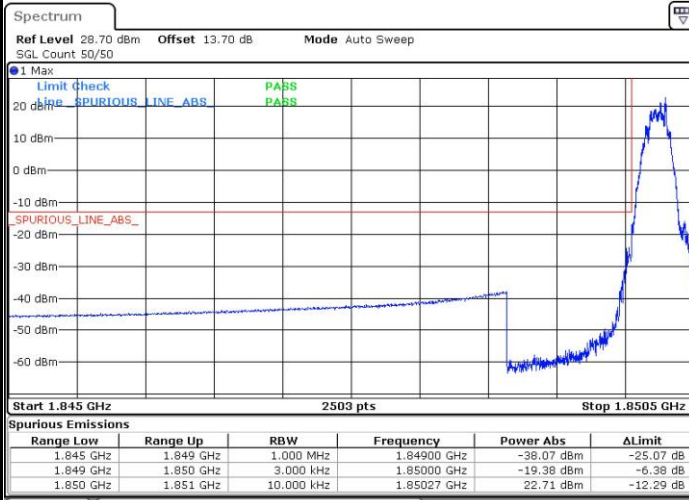
Highest Band Edge



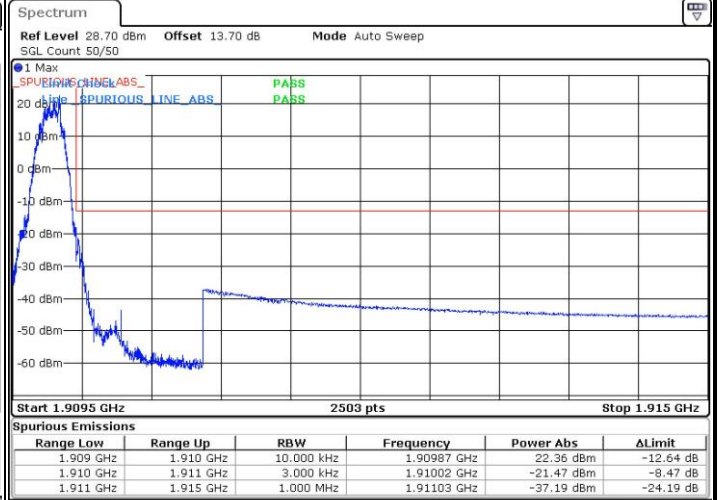


GSM1900 (GSM)

Lowest Band Edge

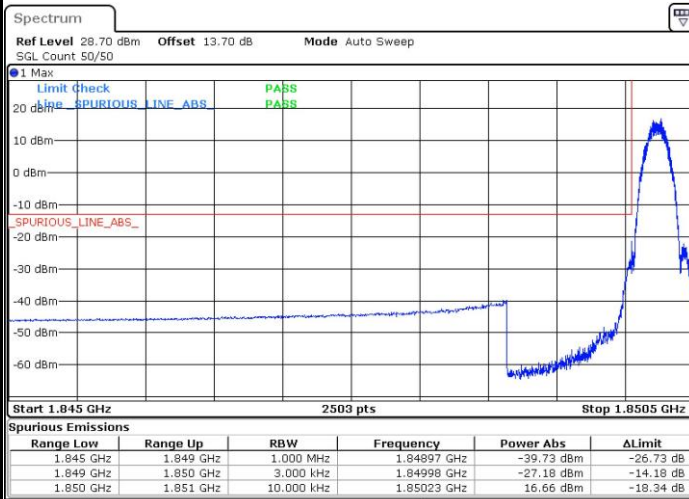


Highest Band Edge

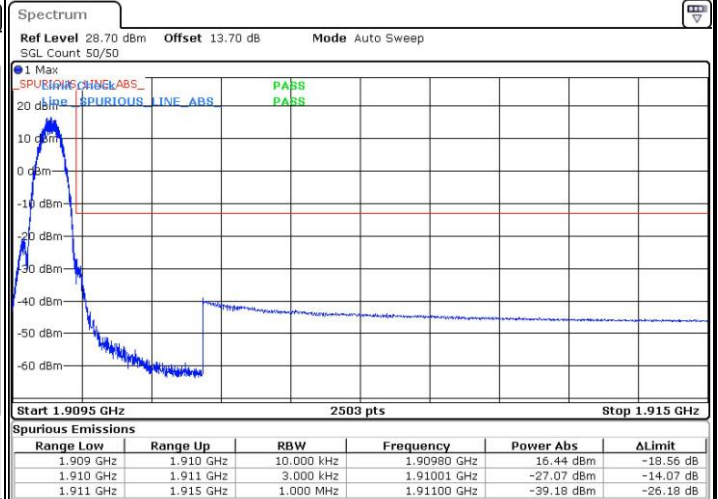


GSM1900 (EDGE class 8)

Lowest Band Edge



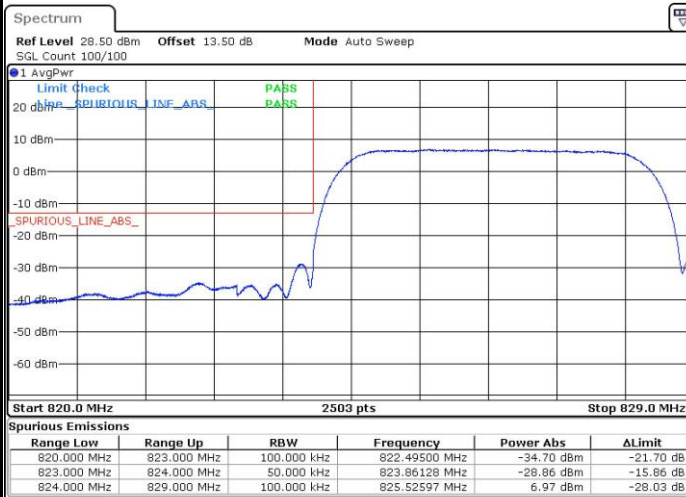
Highest Band Edge





WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

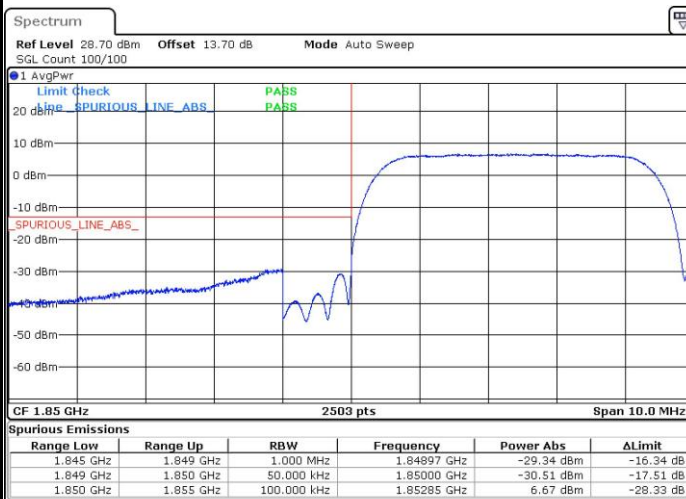


Highest Band Edge



WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

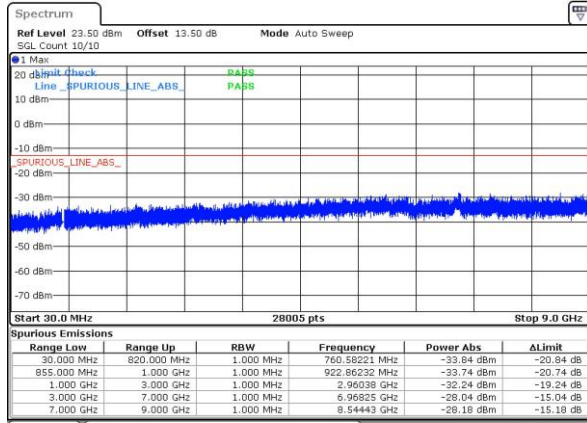




Conducted Spurious Emission

GSM850 (GSM)

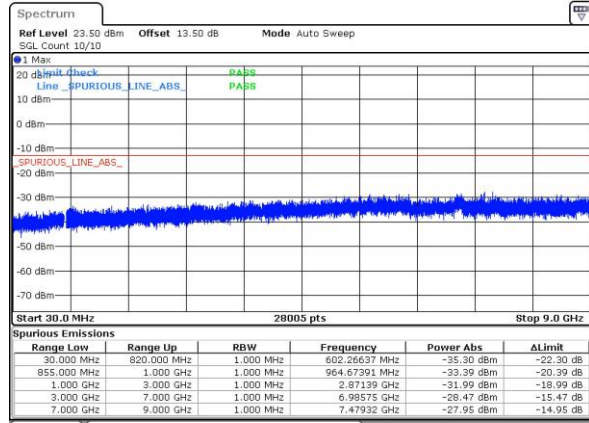
Lowest Channel



Date: 7 JUN 2018 23:30:51

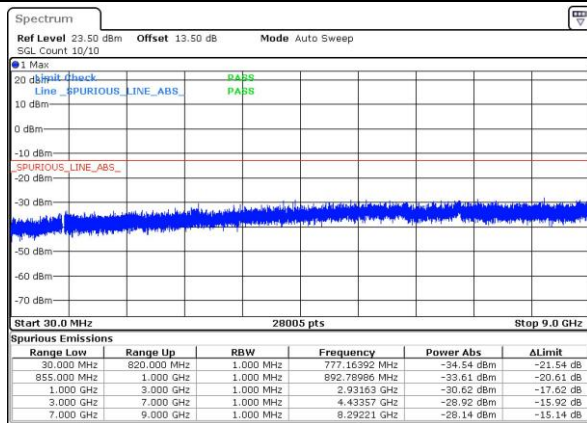
GSM850 (EDGE class 8)

Lowest Channel



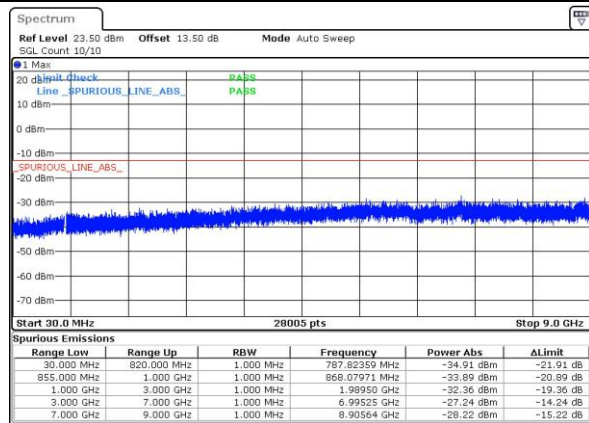
Date: 8 JUN 2018 00:47:47

Middle Channel



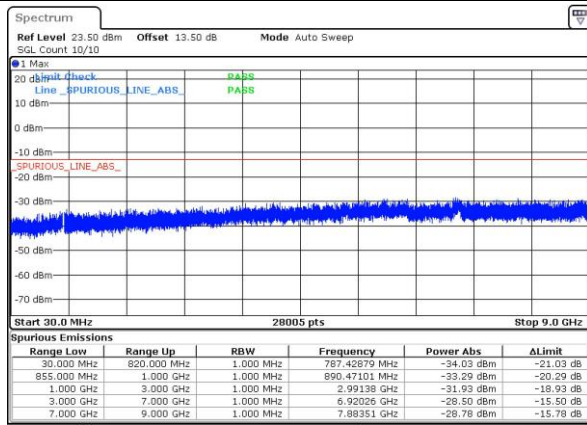
Date: 7 JUN 2018 23:32:20

Middle Channel



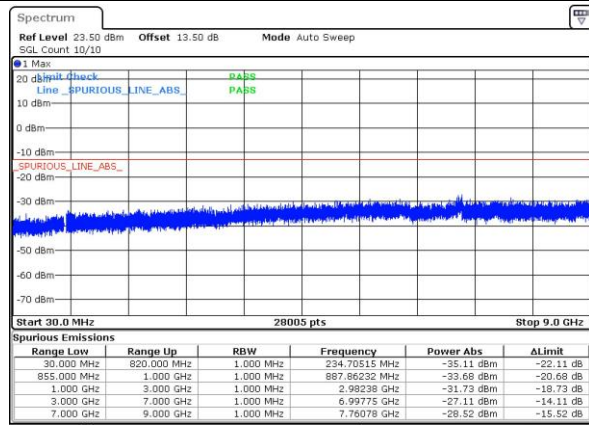
Date: 8 JUN 2018 00:49:15

Highest Channel



Date: 7 JUN 2018 23:33:49

Highest Channel

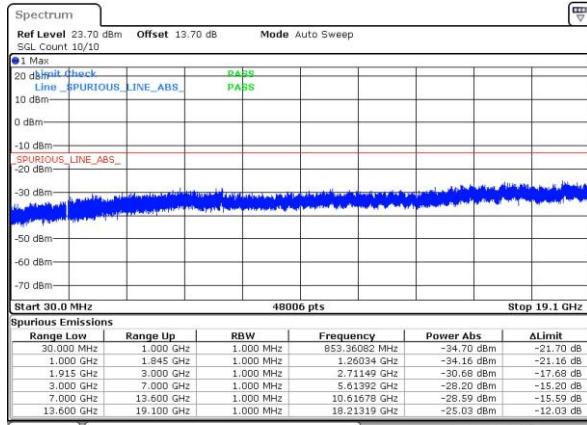


Date: 8 JUN 2018 00:50:44



GSM1900 (GSM)

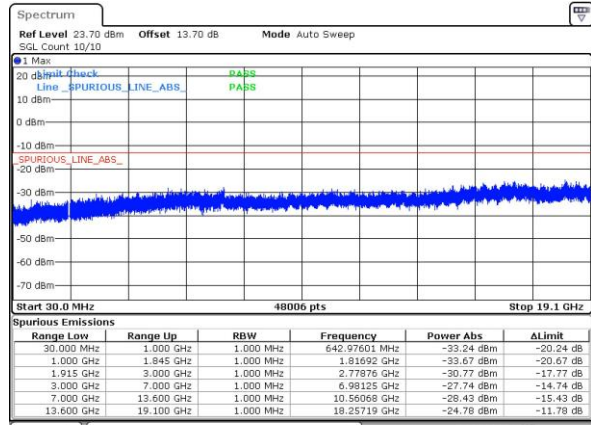
Lowest Channel



Date: 8 JUN 2018 00:05:13

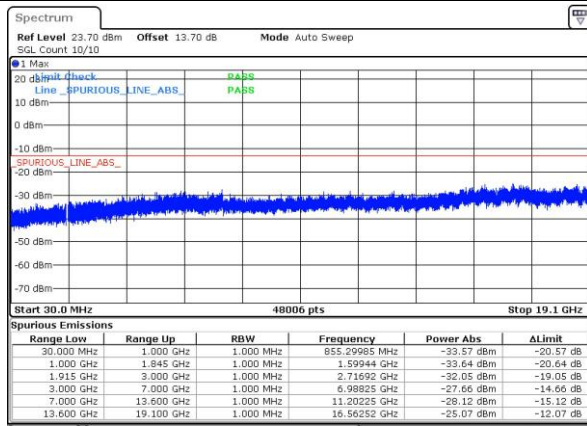
GSM1900 (EDGE class 8)

Lowest Channel

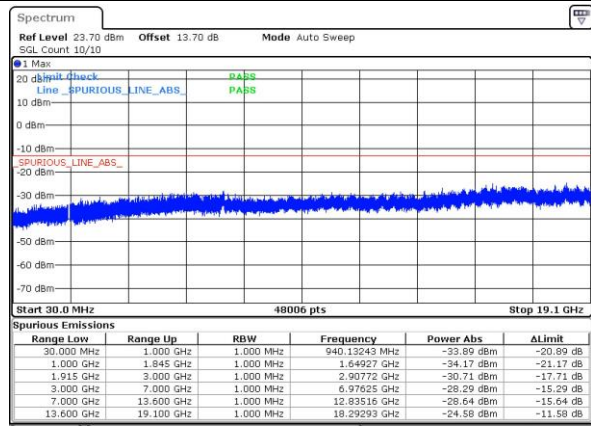


Date: 8 JUN 2018 00:27:37

Middle Channel

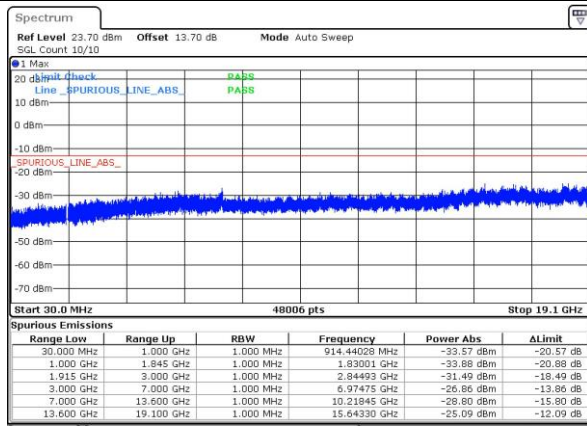


Date: 8 JUN 2018 00:06:40

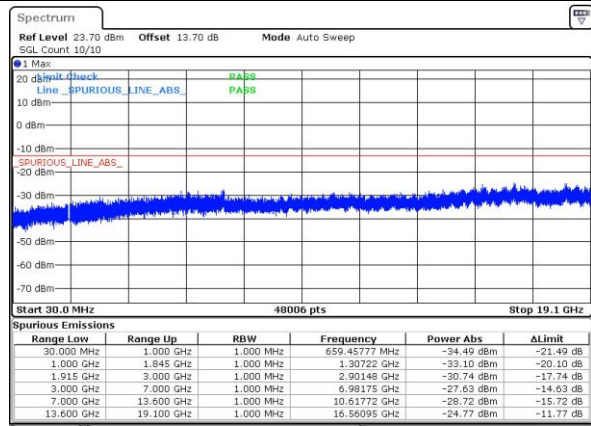


Date: 8 JUN 2018 00:29:00

Highest Channel



Date: 8 JUN 2018 00:08:07

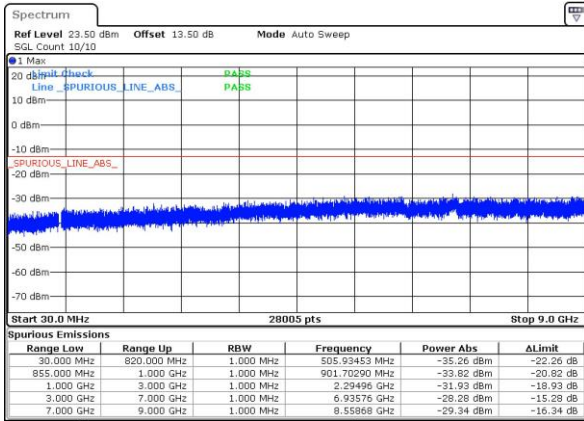


Date: 8 JUN 2018 00:30:40



WCDMA Band V (RMC 12.2Kbps)

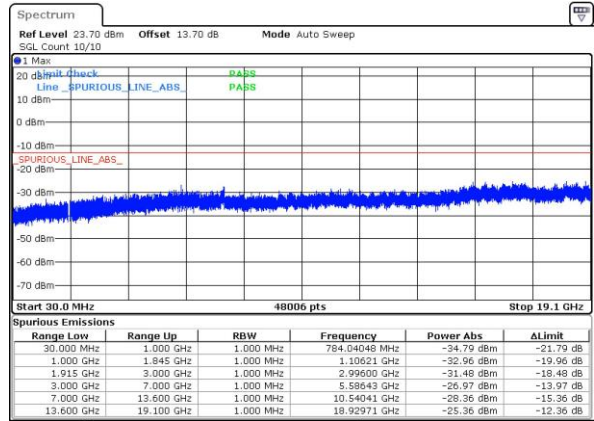
Lowest Channel



Date: 7_JUN,2018 22:49:07

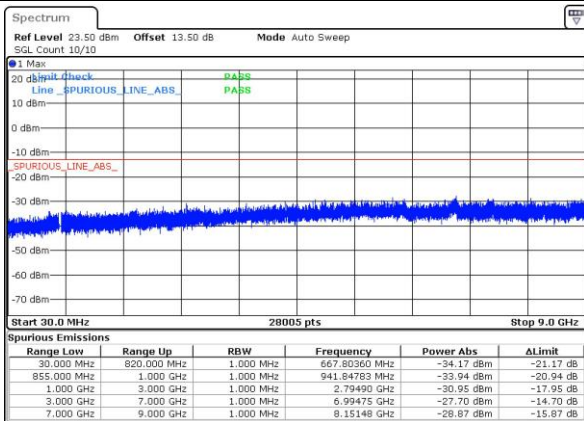
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



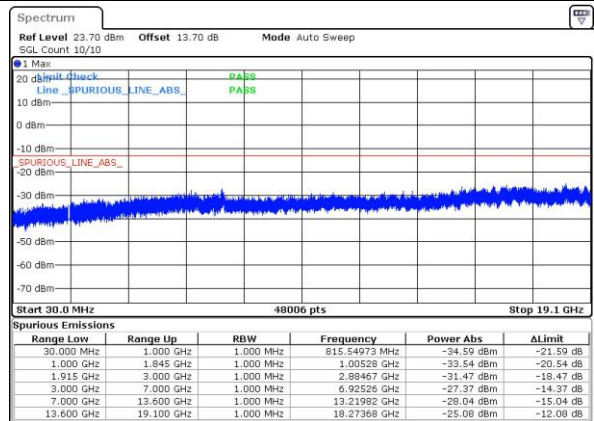
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Middle Channel



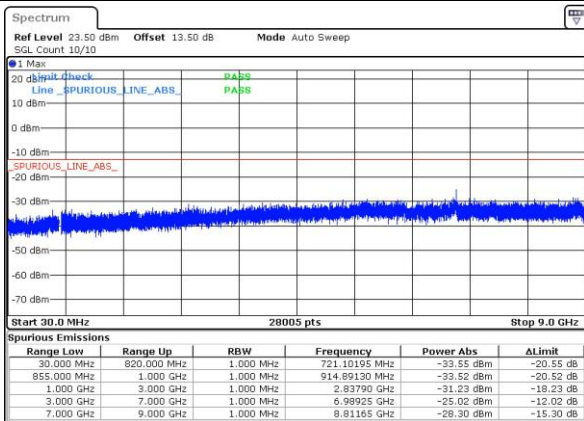
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Middle Channel



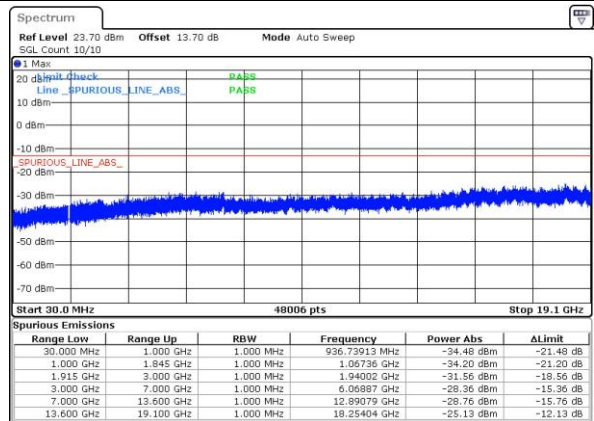
Date: 7_JUN,2018 22:22:37

Highest Channel



Date: 7_JUN,2018 22:52:01

Highest Channel



Date: 7_JUN,2018 22:24:23

**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	0.0041	0.0055	PASS
40	Normal Voltage	0.0024	0.0039	
30	Normal Voltage	0.0026	0.0023	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0008	0.0010	
0	Normal Voltage	0.0005	0.0001	
-10	Normal Voltage	0.0011	0.0024	
-20	Normal Voltage	0.0019	0.0014	
-30	Normal Voltage	0.0036	0.0012	
20	Maximum Voltage	0.0022	0.0024	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0020	0.0033	

Test Conditions	Middle Channel	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)		Result
50	Normal Voltage	0.0041	0.0014	PASS
40	Normal Voltage	0.0030	0.0009	
30	Normal Voltage	0.0014	0.0004	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0010	0.0008	
0	Normal Voltage	0.0021	0.0016	
-10	Normal Voltage	0.0004	0.0010	
-20	Normal Voltage	0.0024	0.0007	
-30	Normal Voltage	0.0002	0.0010	
20	Maximum Voltage	0.0009	0.0010	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0004	0.0002	

Note:

1. Normal Voltage = 12V. ; Battery End Point (BEP) = 9.6 V. ; Maximum Voltage =14.4V
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	0.0056	PASS
40	Normal Voltage	0.0030	
30	Normal Voltage	0.0037	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0053	
0	Normal Voltage	0.0023	
-10	Normal Voltage	0.0033	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0042	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0013	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0003	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0009	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0010	
-30	Normal Voltage	0.0012	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0010	

Note:

1. Normal Voltage = 12V. ; Battery End Point (BEP) = 9.6 V. ; Maximum Voltage =14.4 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 Conducted 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)
Middle	1672.8	-28.96	-13	-15.96	-42.57	-32.21	4.00	9.40	H
	2509.2	-38.55	-13	-25.55	-57.35	-42.12	4.88	10.60	H
	3345.6	-44.25	-13	-31.25	-65.24	-49.18	5.52	12.60	H
	4182	-53.37	-13	-40.37	-78.02	-57.84	6.00	12.62	H
	5018.4	-51.03	-13	-38.03	-77.59	-54.44	7.14	12.70	H
	5854.8	-46.91	-13	-33.91	-75.58	-50.14	7.62	13.00	H
	1672.8	-29.40	-13	-16.40	-42.50	-32.65	4.00	9.40	V
	2509.2	-37.78	-13	-24.78	-56.41	-41.35	4.88	10.60	V
	3345.6	-39.39	-13	-26.39	-59.94	-44.32	5.52	12.60	V
	4182	-49.49	-13	-36.49	-73.14	-53.96	6.00	12.62	V
	5018.4	-43.88	-13	-30.88	-70.16	-47.29	7.14	12.70	V
	5854.8	-49.03	-13	-36.03	-76.52	-52.26	7.62	13.00	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)
Middle	1672.8	-29.73	-13	-16.73	-43.34	-32.98	4.00	9.40	H
	2509.2	-37.39	-13	-24.39	-56.19	-40.96	4.88	10.60	H
	3345.6	-44.91	-13	-31.91	-65.90	-49.84	5.52	12.60	H
	4182	-52.66	-13	-39.66	-77.31	-57.13	6.00	12.62	H
	5018.4	-52.95	-13	-39.95	-79.51	-56.36	7.14	12.70	H
	5854.8	-47.97	-13	-34.97	-76.64	-51.20	7.62	13.00	H
	1672.8	-29.97	-13	-16.97	-43.07	-33.22	4.00	9.40	V
	2509.2	-36.45	-13	-23.45	-55.08	-40.02	4.88	10.60	V
	3345.6	-39.55	-13	-26.55	-60.10	-44.48	5.52	12.60	V
	4182	-51.80	-13	-38.80	-75.45	-56.27	6.00	12.62	V
	5018.4	-45.15	-13	-32.15	-71.43	-48.56	7.14	12.70	V
	5854.8	-49.86	-13	-36.86	-77.35	-53.09	7.62	13.00	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)
Middle	3760	-39.23	-13	-26.23	-62.73	-45.98	5.85	12.60	H
	5640	-37.35	-13	-24.35	-64.62	-43.15	7.30	13.10	H
	7520	-42.23	-13	-29.23	-73.32	-45.38	8.35	11.50	H
	9400	-41.14	-13	-28.14	-74.49	-43.29	9.85	12.00	H
	3760	-37.15	-13	-24.15	-59.88	-43.90	5.85	12.60	V
	5640	-29.79	-13	-16.79	-56	-35.59	7.30	13.10	V
	7520	-42.23	-13	-29.23	-72.74	-45.38	8.35	11.50	V
	9400	-40.23	-13	-27.23	-74.92	-42.38	9.85	12.00	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)
Middle	3760	-38.09	-13	-25.09	-61.59	-44.84	5.85	12.60	H
	5640	-30.15	-13	-17.15	-57.42	-35.95	7.30	13.10	H
	7520	-41.95	-13	-28.95	-73.04	-45.10	8.35	11.50	H
	9400	-45.15	-13	-32.15	-78.50	-47.30	9.85	12.00	H
	3760	-33.29	-13	-20.29	-56.02	-40.04	5.85	12.60	V
	5640	-30.38	-13	-17.38	-56.59	-36.18	7.30	13.10	V
	7520	-39.43	-13	-26.43	-69.94	-42.58	8.35	11.50	V
	9400	-41.26	-13	-28.26	-75.95	-43.41	9.85	12.00	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)
Middle	1672.8	-43.19	-13	-30.19	-56.80	-46.44	4.00	9.40	H
	2509.2	-55.47	-13	-42.47	-74.27	-59.04	4.88	10.60	H
	3345.6	-55.69	-13	-42.69	-76.68	-60.62	5.52	12.60	H
	4182	-52.88	-13	-39.88	-77.53	-57.35	6.00	12.62	H
	5018.4	-52.64	-13	-39.64	-79.20	-56.05	7.14	12.70	H
	5854.8	-50.26	-13	-37.26	-78.93	-53.49	7.62	13.00	H
	1672.8	-46.47	-13	-33.47	-59.57	-49.72	4.00	9.40	V
	2509.2	-57.21	-13	-44.21	-75.84	-60.78	4.88	10.60	V
	3345.6	-56.07	-13	-43.07	-76.62	-61.00	5.52	12.60	V
	4182	-54.44	-13	-41.44	-78.09	-58.91	6.00	12.62	V
	5018.4	-53.12	-13	-40.12	-79.40	-56.53	7.14	12.70	V
	5854.8	-51.60	-13	-38.60	-79.09	-54.83	7.62	13.00	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)
Middle	3760	-48.77	-13	-35.77	-72.27	-55.52	5.85	12.60	H
	5640	-44.00	-13	-31.00	-71.27	-49.80	7.30	13.10	H
	7520	-47.33	-13	-34.33	-78.42	-50.48	8.35	11.50	H
	3760	-43.93	-13	-30.93	-66.66	-50.68	5.85	12.60	V
	5640	-42.26	-13	-29.26	-68.47	-48.06	7.30	13.10	V
	7520	-47.98	-13	-34.98	-78.49	-51.13	8.35	11.50	V

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