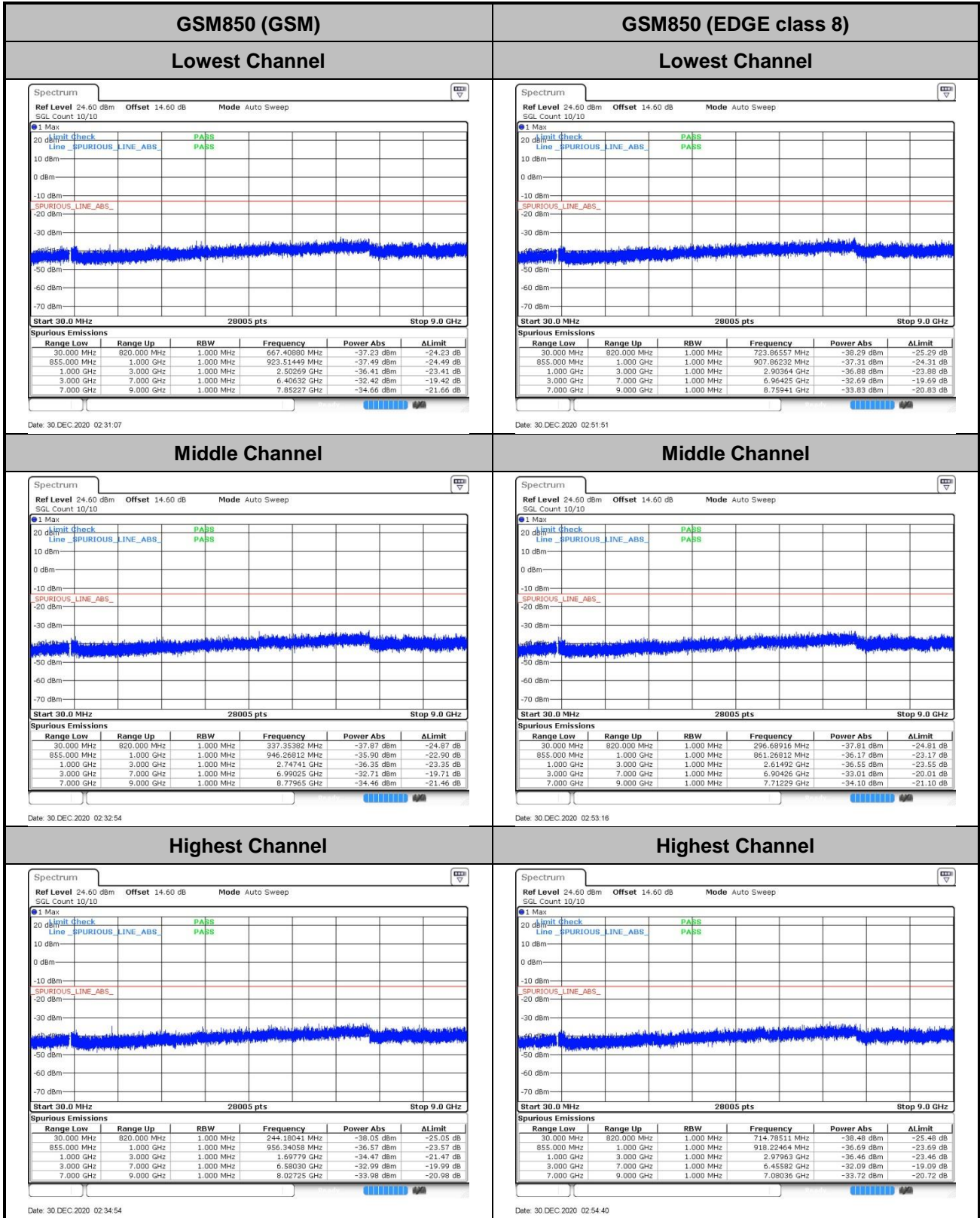




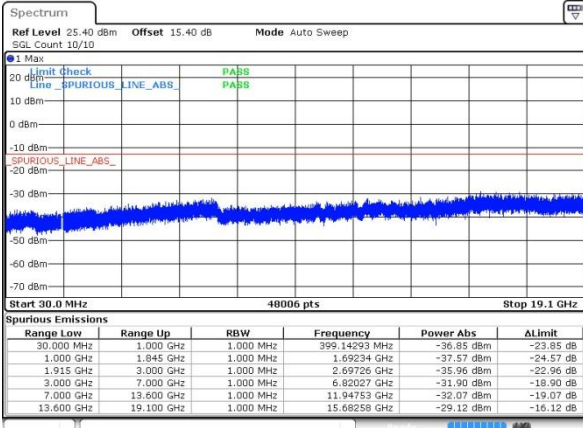
Conducted Spurious Emission





GSM1900 (GSM)

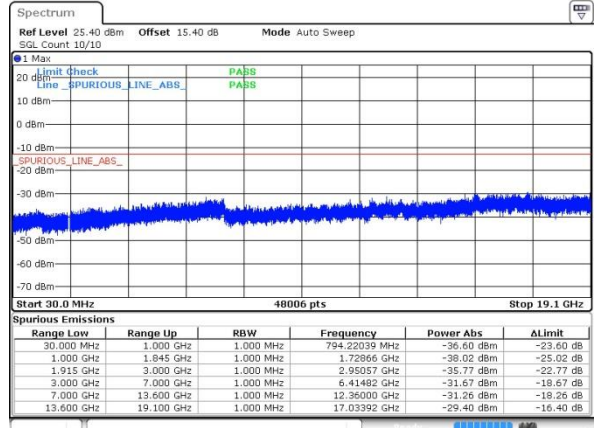
Lowest Channel



Date: 30 DEC 2020 01:48:54

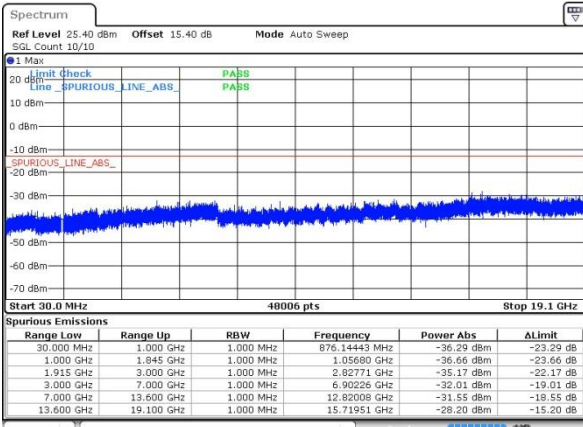
GSM1900 (EDGE class 8)

Lowest Channel



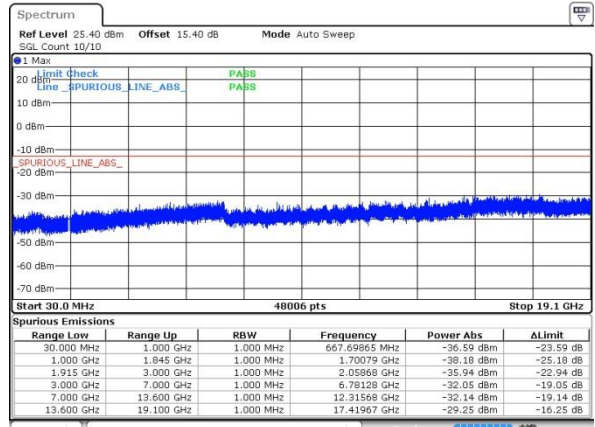
Date: 30 DEC 2020 02:10:20

Middle Channel



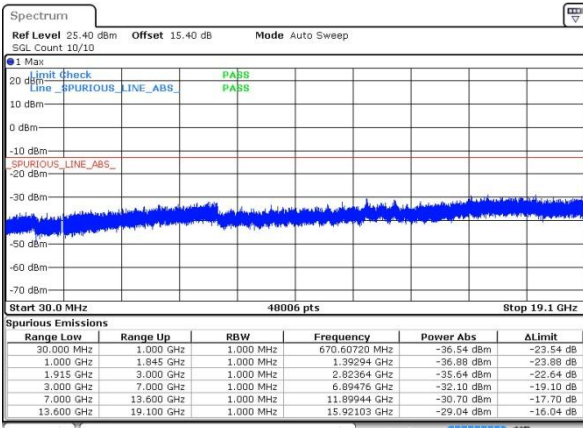
Date: 30 DEC 2020 01:51:23

Middle Channel



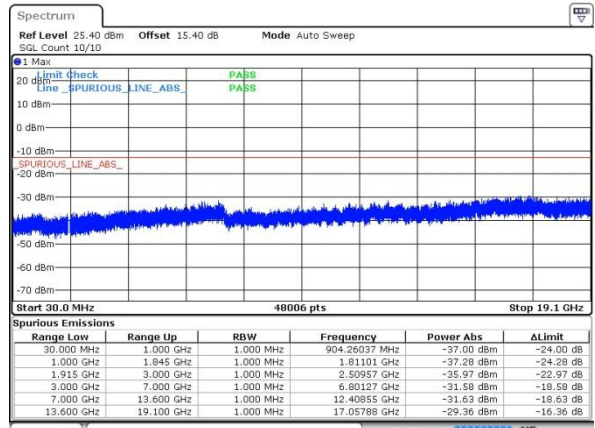
Date: 30 DEC 2020 02:11:42

Highest Channel



Date: 30 DEC 2020 01:52:57

Highest Channel



Date: 30 DEC 2020 02:13:05



Frequency Stability

Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	GSM850 (GSM)	GSM850 (EDGE class 8)	Limit 2.5ppm
		Deviation (ppm)		Result
50	Normal Voltage	0.0128	0.0224	PASS
40	Normal Voltage	0.0032	0.0478	
30	Normal Voltage	0.0120	0.0057	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0155	0.0125	
0	Normal Voltage	0.0088	0.0119	
-10	Normal Voltage	0.0145	0.0214	
-20	Normal Voltage	0.0459	0.0065	
-30	Normal Voltage	0.0143	0.0119	
20	Maximum Voltage	0.0096	0.0211	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0121	0.0042	

Note: Normal Voltage = 4.0 ; Battery End Point (BEP) =3.8. ; Maximum Voltage =4.4 V

Test Conditions Temperature (°C)	Middle Channel Voltage (Volt)	GSM1900 (GSM)	GSM1900 (EDGE class 8)	Limit Note 2.
		Deviation (ppm)		Result
50	Normal Voltage	0.0020	0.0181	PASS
40	Normal Voltage	0.0040	0.0131	
30	Normal Voltage	0.0119	0.0023	
20(Ref.)	Normal Voltage	0.0000	0.0000	
10	Normal Voltage	0.0145	0.0112	
0	Normal Voltage	0.0146	0.0135	
-10	Normal Voltage	0.0089	0.0174	
-20	Normal Voltage	0.0021	0.0127	
-30	Normal Voltage	0.0118	0.0119	
20	Maximum Voltage	0.0052	0.0018	
20	Normal Voltage	0.0000	0.0000	
20	Battery End Point	0.0124	0.0027	

Note:

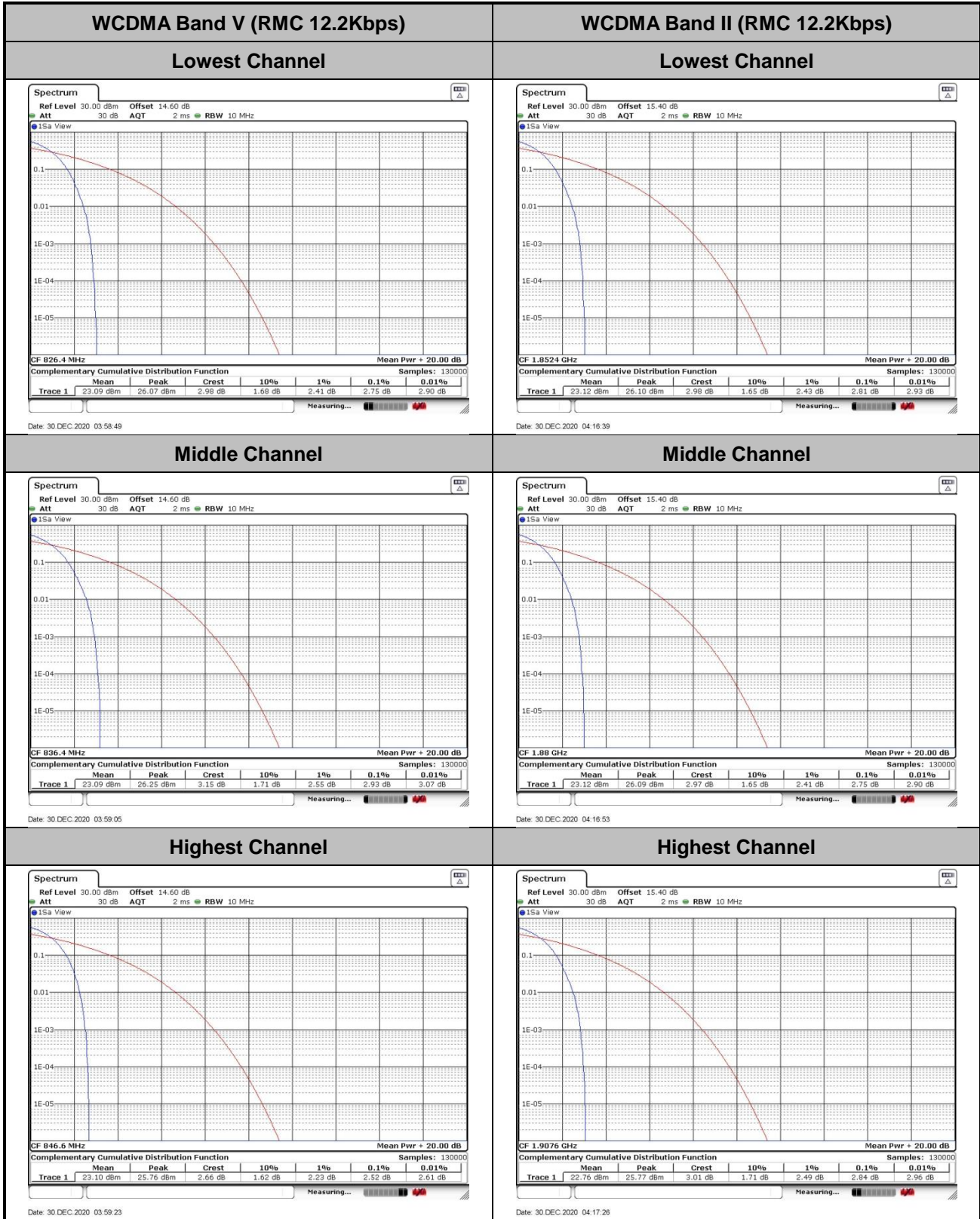
1. Normal Voltage = 4.0 ; Battery End Point (BEP) =3.8. ; Maximum Voltage =4.4 V
2. The frequency fundamental emissions stay within the authorized frequency block based on the frequency deviation measured is small.

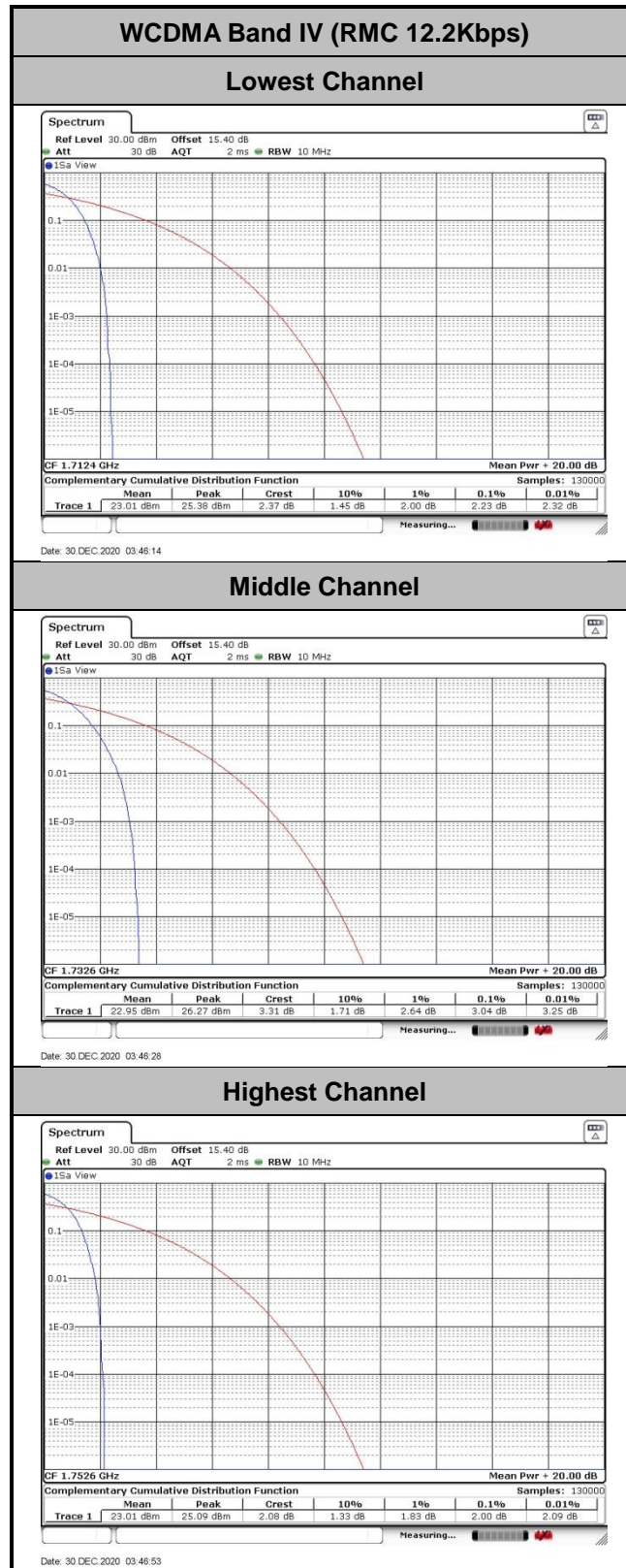


A2. WCDMA

Peak-to-Average Ratio

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV	Limit: 13dB
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps	Result
Lowest CH	2.75	2.81	2.23	PASS
Middle CH	2.93	2.75	3.04	
Highest CH	2.52	2.84	2.00	







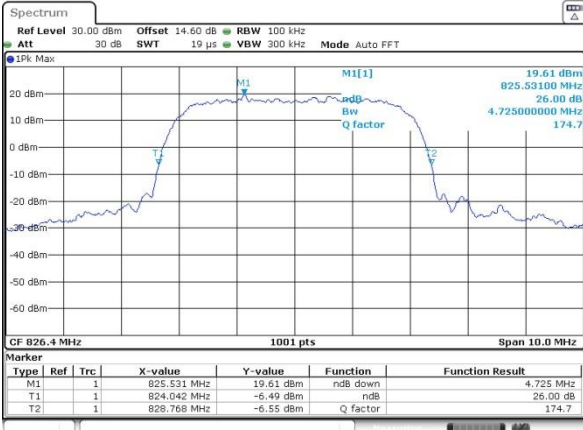
26dB Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.725	4.725	4.775
Middle CH	4.715	4.725	4.705
Highest CH	4.735	4.715	4.795



WCDMA Band V (RMC 12.2Kbps)

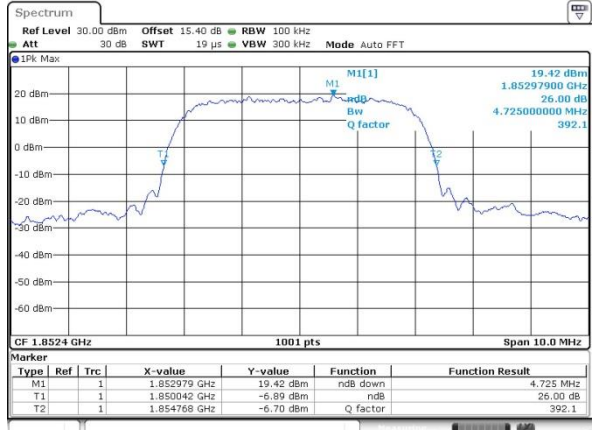
Lowest Channel



Date: 30 DEC 2020 04:00:49

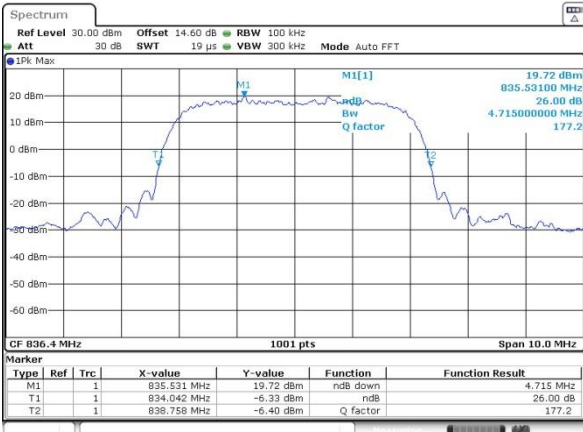
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



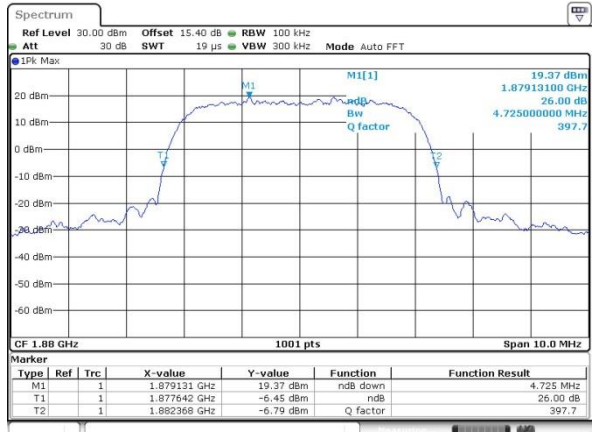
Date: 30 DEC 2020 03:11:06

Middle Channel



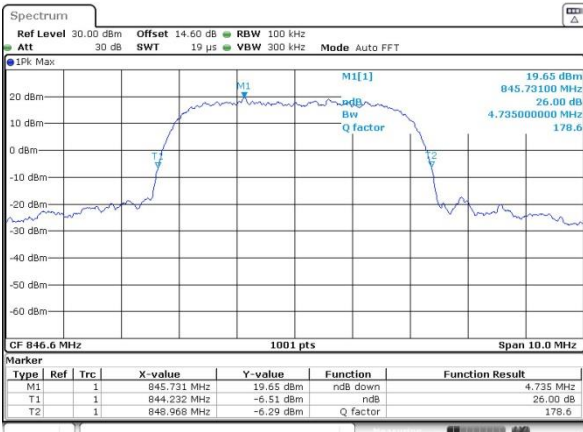
Date: 30 DEC 2020 04:01:29

Middle Channel



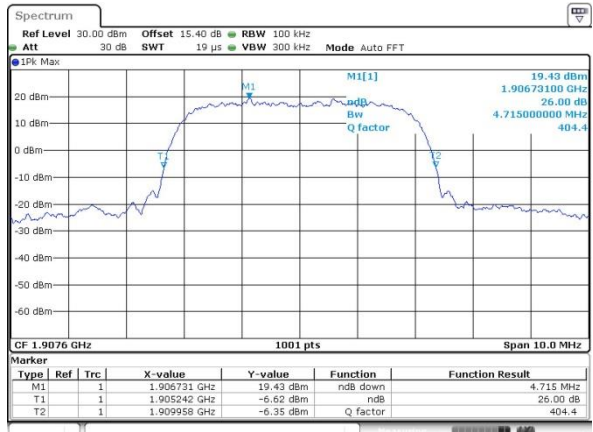
Date: 30 DEC 2020 03:11:46

Highest Channel

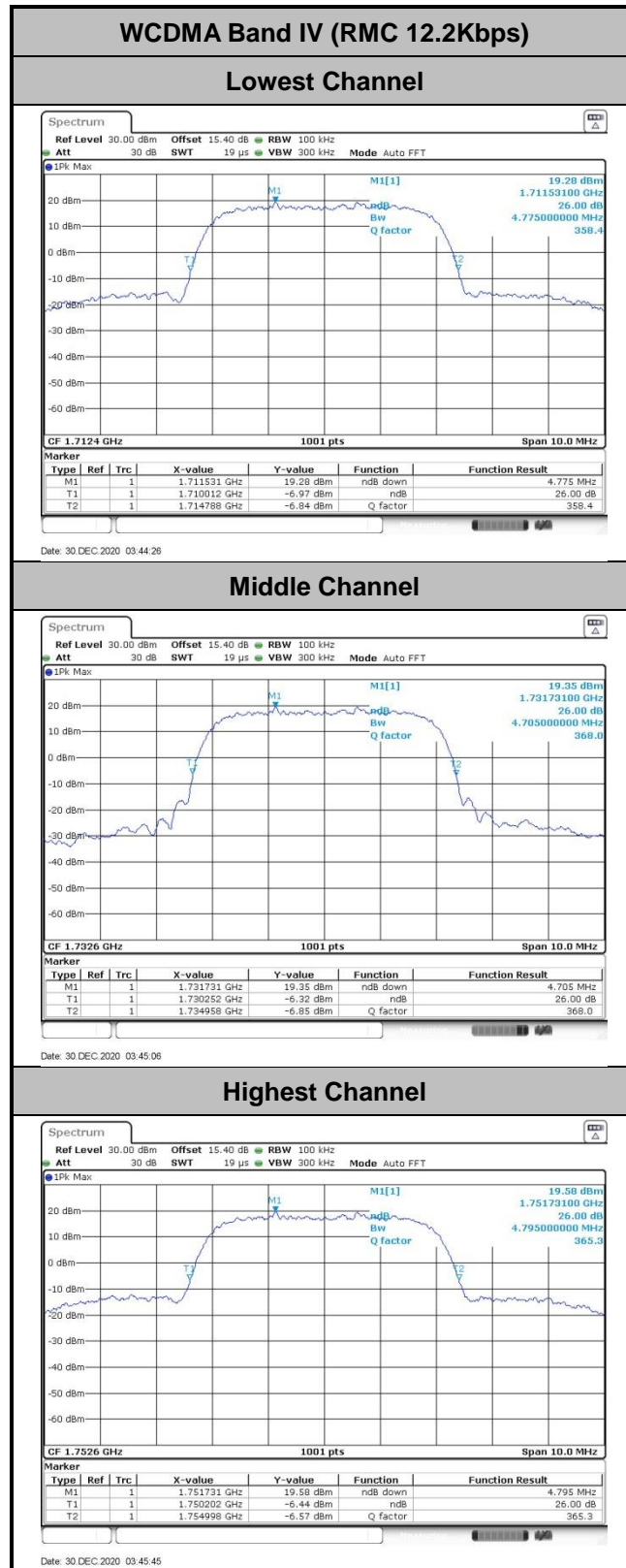


Date: 30 DEC 2020 04:02:04

Highest Channel



Date: 30 DEC 2020 03:12:22





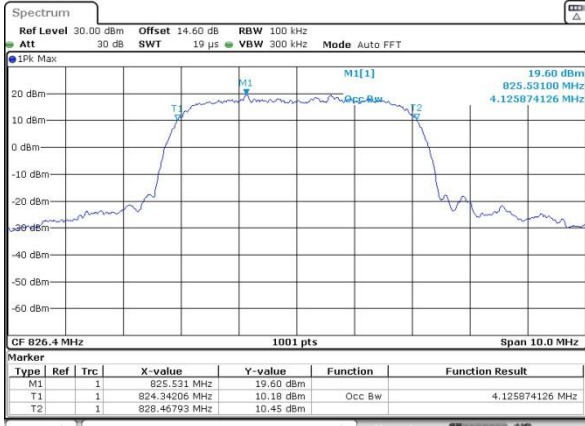
Occupied Bandwidth

Mode	WCDMA Band V	WCDMA Band II	WCDMA Band IV
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.13	4.14	4.15
Middle CH	4.14	4.13	4.13
Highest CH	4.14	4.13	4.17



WCDMA Band V (RMC 12.2Kbps)

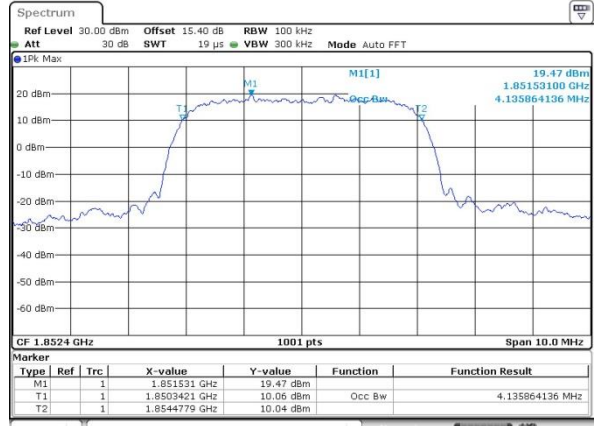
Lowest Channel



Date: 30 DEC 2020 04:05:17

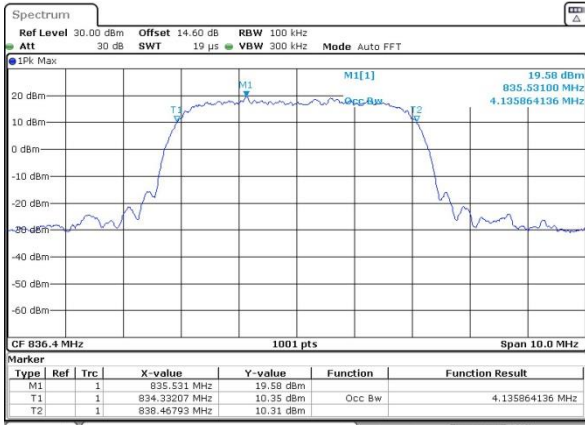
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



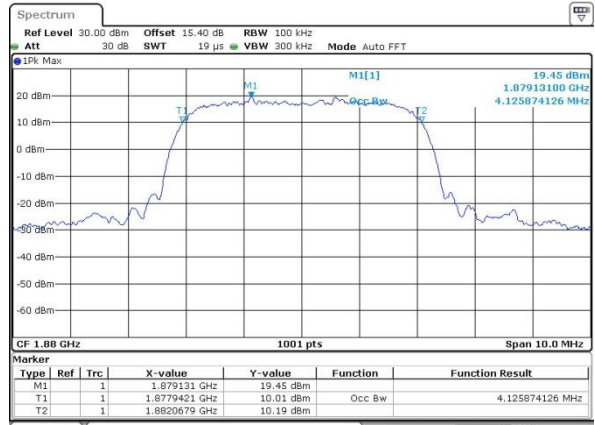
Date: 30 DEC 2020 03:13:35

Middle Channel



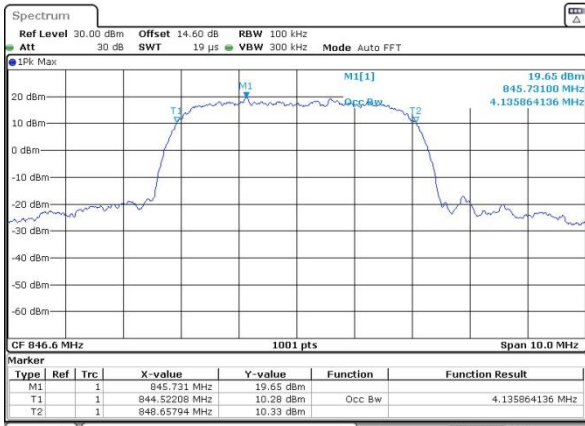
Date: 30 DEC 2020 04:05:55

Middle Channel



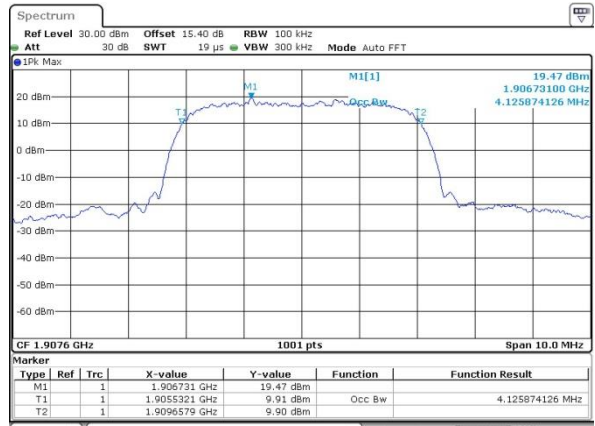
Date: 30 DEC 2020 03:14:13

Highest Channel

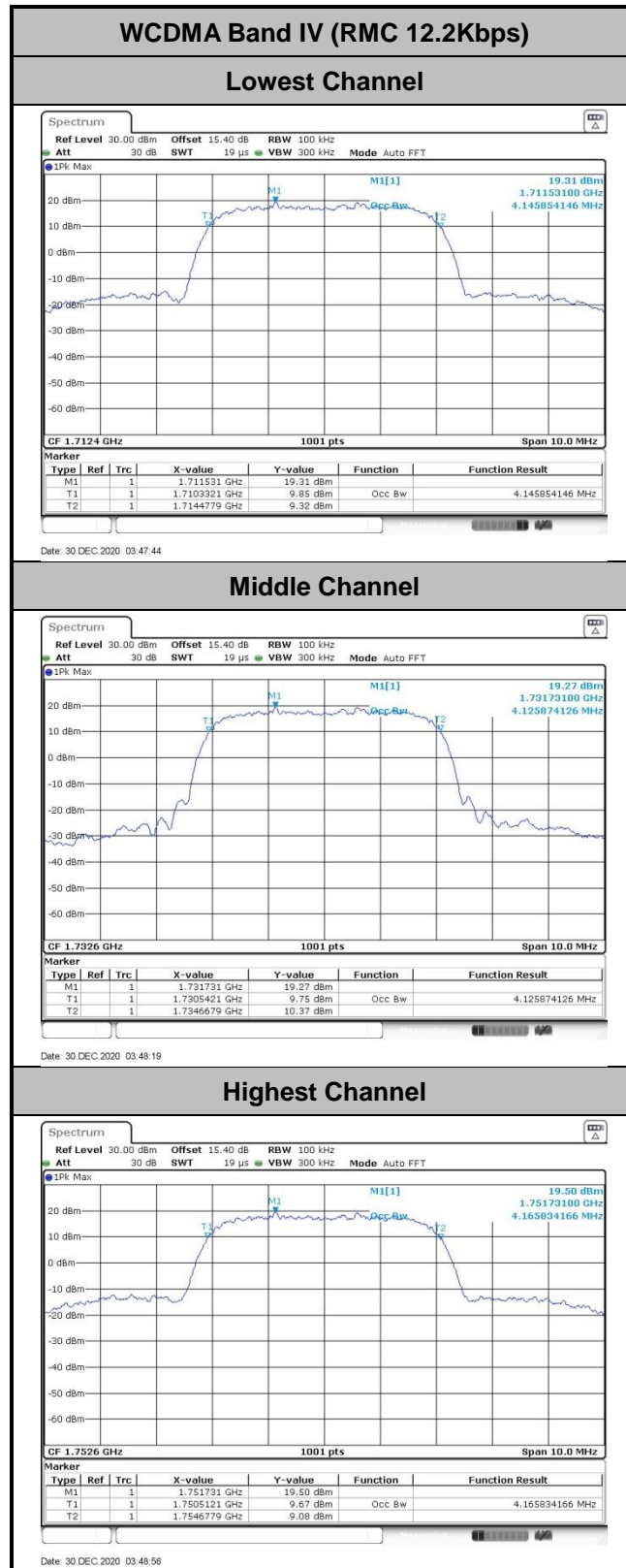


Date: 30 DEC 2020 04:06:34

Highest Channel

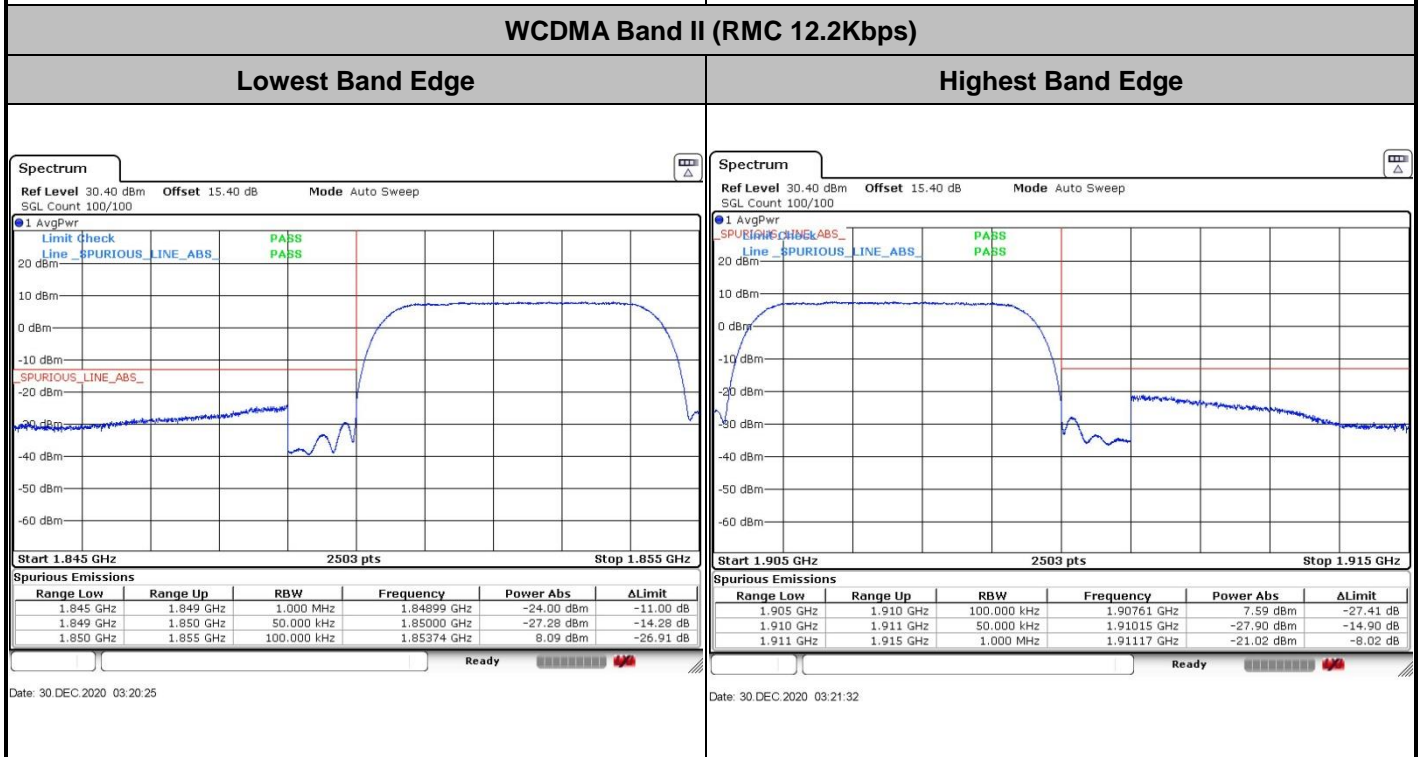
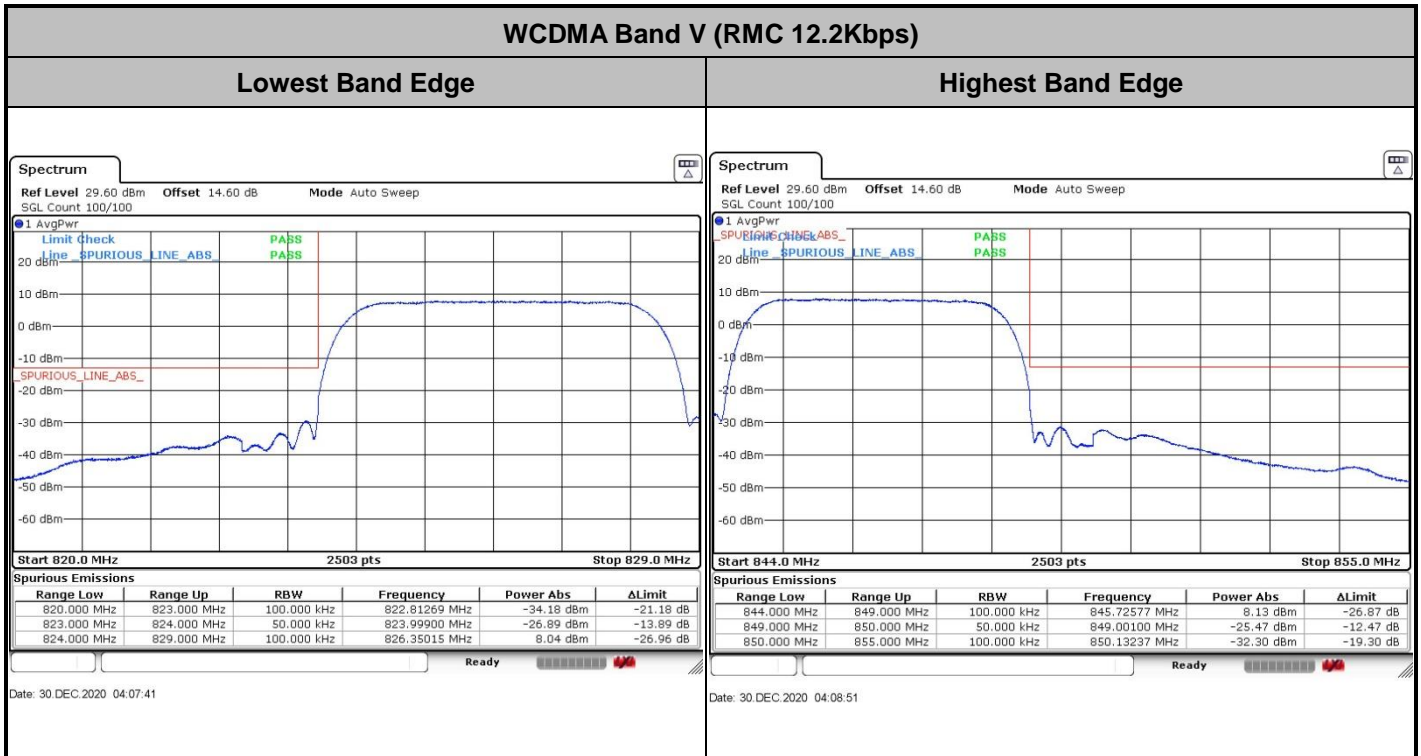


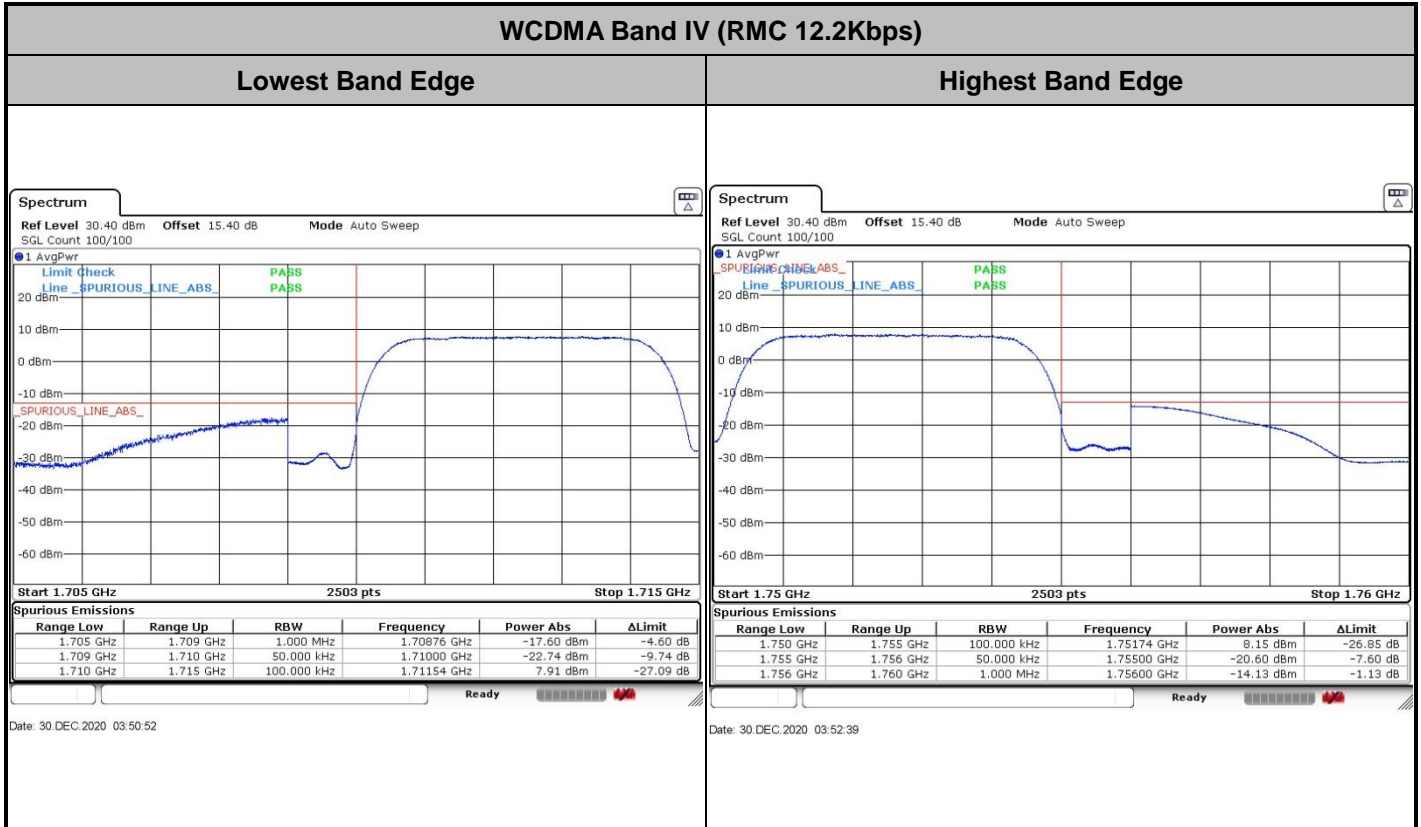
Date: 30 DEC 2020 03:14:54





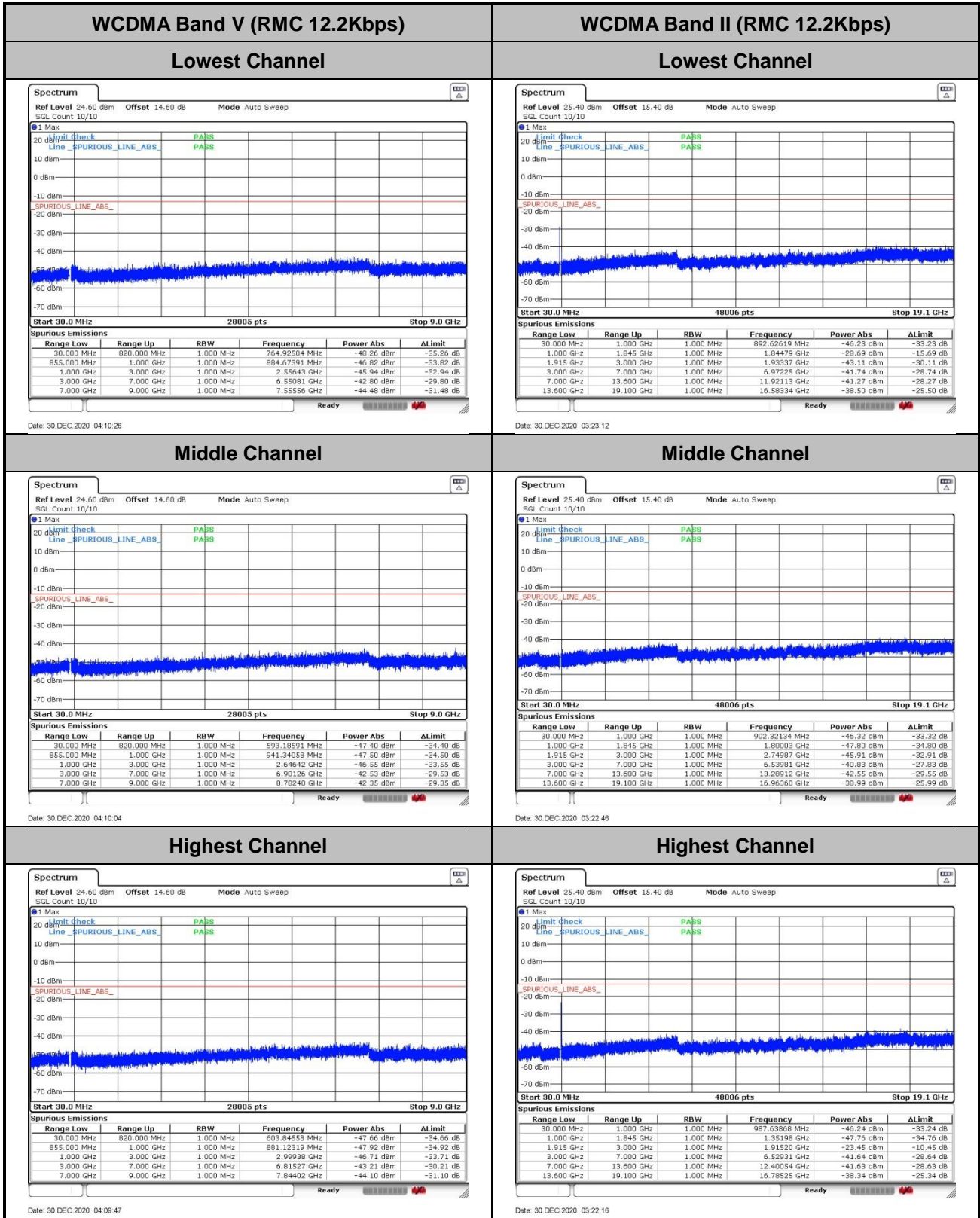
Conducted Band Edge







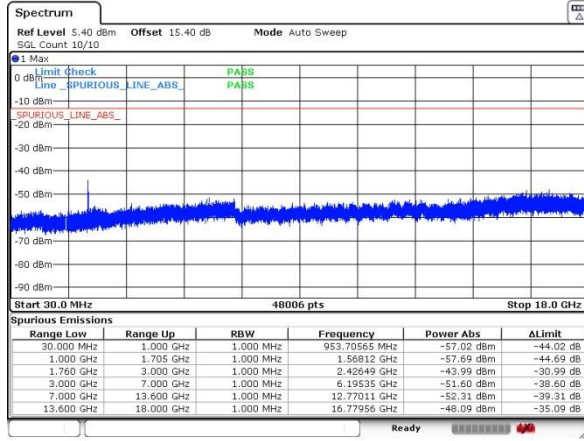
Conducted Spurious Emission





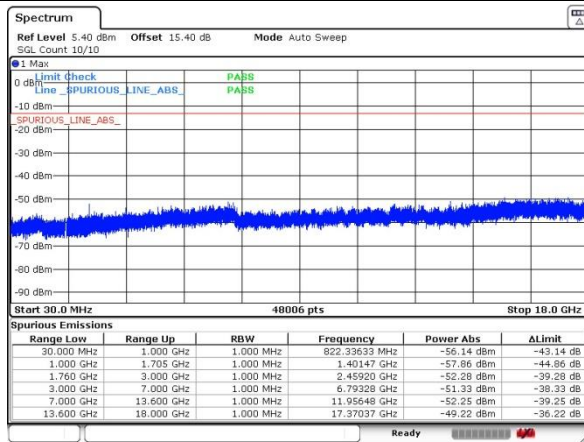
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



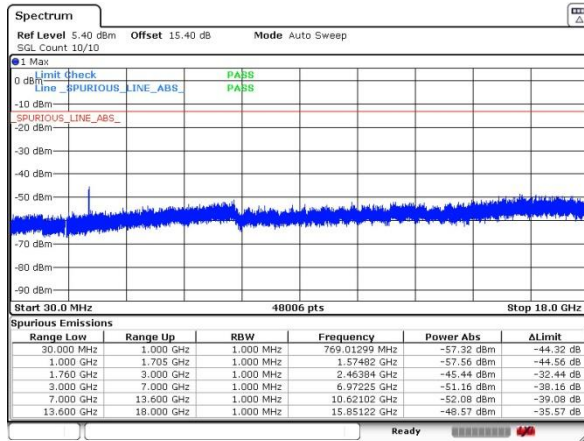
Date: 30 DEC 2020 03:53:51

Middle Channel



Date: 30 DEC 2020 03:54:11

Highest Channel



Date: 30 DEC 2020 03:54:57



Frequency Stability

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	2.5ppm Result
50	Normal Voltage	0.0059	PASS
40	Normal Voltage	0.0265	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0278	
0	Normal Voltage	0.0259	
-10	Normal Voltage	0.0064	
-20	Normal Voltage	0.0245	
-30	Normal Voltage	0.0088	
20	Maximum Voltage	0.0045	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0262	

Note: Normal Voltage = 4.0 V. ; Battery End Point (BEP) =3.8 V. ; Maximum Voltage =4.4V

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2. Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0222	
30	Normal Voltage	0.0118	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0184	
0	Normal Voltage	0.0058	
-10	Normal Voltage	0.0143	
-20	Normal Voltage	0.0159	
-30	Normal Voltage	0.0027	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0032	

Note:

1. Normal Voltage = 4.0 V. ; Battery End Point (BEP) =3.8 V. ; 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	0.0035	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	0.0000	
20	Battery End Point	0.0035	

Note:

1. Normal Voltage = 4.0 V. ; Battery End Point (BEP) =3.8 V. ; 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	-31.16	-13	-18.16	-34.40	1.11	6.50	H
	2510	-41.67	-13	-28.67	-44.29	1.43	6.20	H
	3348	-51.60	-13	-38.60	-56.04	1.71	8.30	H
	1672	-33.42	-13	-20.42	-36.66	1.11	6.50	V
	2510	-43.80	-13	-30.80	-46.42	1.43	6.20	V
	3348	-49.81	-13	-36.81	-54.25	1.71	8.30	V

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

GSM850 (EDGE 1 Tx slots)								
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	-32.86	-13	-19.86	-36.10	1.11	6.50	H
	2510	-43.96	-13	-30.96	-46.58	1.43	6.20	H
	3348	-56.32	-13	-43.32	-60.76	1.71	8.30	H
	1672	-35.44	-13	-22.44	-38.68	1.11	6.50	V
	2510	-45.80	-13	-32.80	-48.42	1.43	6.20	V
	3348	-53.66	-13	-40.66	-58.10	1.71	8.30	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	-54.48	-13	-41.48	-60.74	1.84	8.10	H
	5640	-52.19	-13	-39.19	-60.50	2.19	10.50	H
	7524	-49.06	-13	-36.06	-57.98	2.58	11.50	H
	3759	-54.41	-13	-41.41	-60.67	1.84	8.10	V
	5640	-51.76	-13	-38.76	-60.07	2.19	10.50	V
	7524	-49.56	-13	-36.56	-58.48	2.58	11.50	V

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



GSM1900 (EDGE 1 Tx slots)								
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	-54.49	-13	-41.49	-60.75	1.84	8.10	H
	5640	-52.13	-13	-39.13	-60.44	2.19	10.50	H
	7524	-49.47	-13	-36.47	-58.39	2.58	11.50	H
	3759	-54.30	-13	-41.30	-60.56	1.84	8.10	V
	5640	-52.13	-13	-39.13	-60.44	2.19	10.50	V
	7524	-49.49	-13	-36.49	-58.41	2.58	11.50	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	-62.55	-13	-49.55	-65.79	1.11	6.50	H
	2510	-59.74	-13	-46.74	-62.36	1.43	6.20	H
	3348	-58.26	-13	-45.26	-62.70	1.71	8.30	H
	1672	-62.97	-13	-49.97	-66.21	1.11	6.50	V
	2510	-58.96	-13	-45.96	-61.58	1.43	6.20	V
	3348	-57.87	-13	-44.87	-62.31	1.71	8.30	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	-54.47	-13	-41.47	-60.73	1.84	8.10	H
	5640	-52.05	-13	-39.05	-60.36	2.19	10.50	H
	7524	-49.49	-13	-36.49	-58.41	2.58	11.50	H
	3759	-54.50	-13	-41.50	-60.76	1.84	8.10	V
	5640	-51.99	-13	-38.99	-60.30	2.19	10.50	V
	7524	-49.56	-13	-36.56	-58.48	2.58	11.50	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	-56.69	-13	-43.69	-63.38	1.75	8.44	H
	5199	-51.70	-13	-38.70	-60.12	1.94	10.36	H
	6936	-49.01	-13	-36.01	-58.25	2.47	11.71	H
	3465	-56.31	-13	-43.31	-63.00	1.75	8.44	V
	5199	-51.36	-13	-38.36	-59.78	1.94	10.36	V
	6936	-49.13	-13	-36.13	-58.37	2.47	11.71	V

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