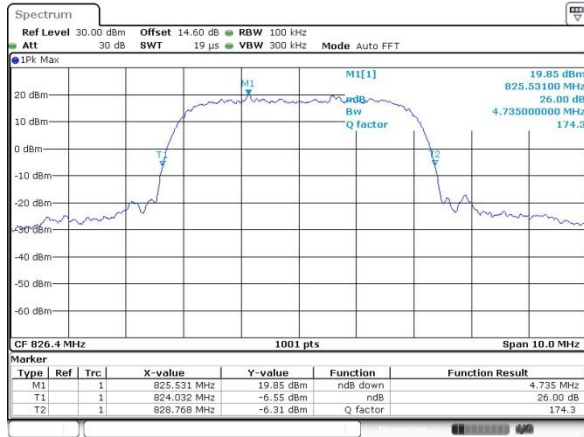




WCDMA Band V (RMC 12.2Kbps)

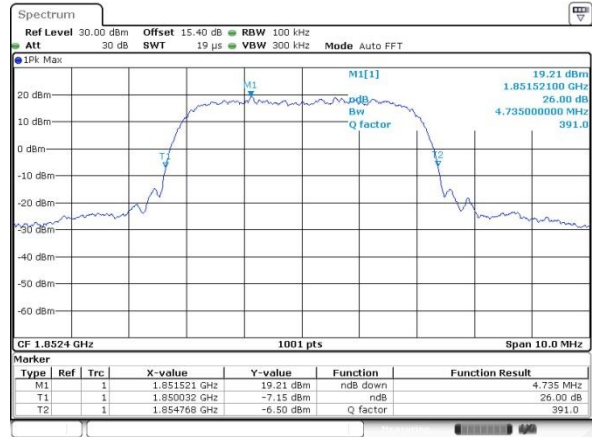
Lowest Channel



Date: 26 SEP 2022 11:38:19

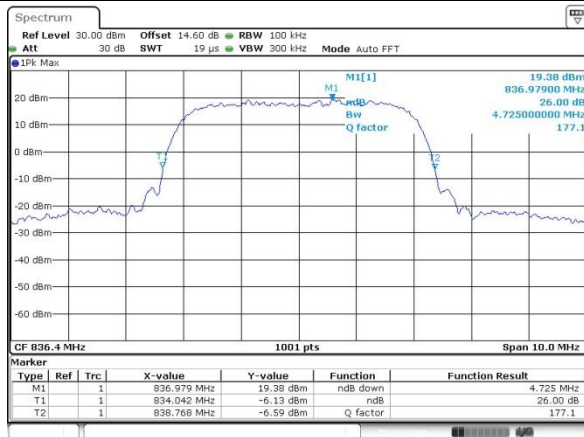
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



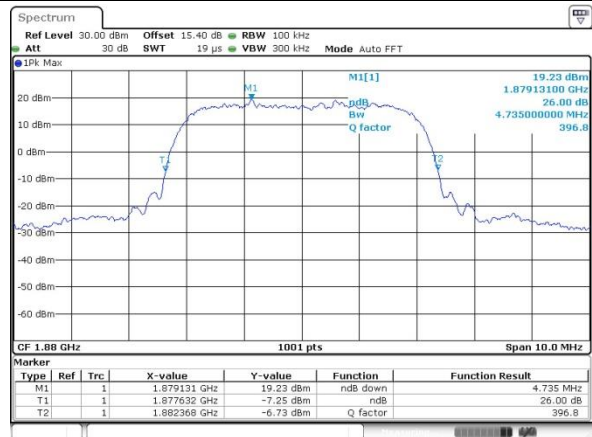
Date: 26 SEP 2022 13:11:44

Middle Channel



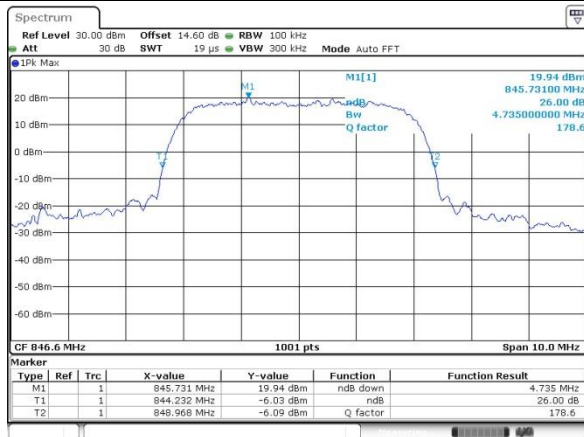
Date: 26 SEP 2022 11:38:49

Middle Channel



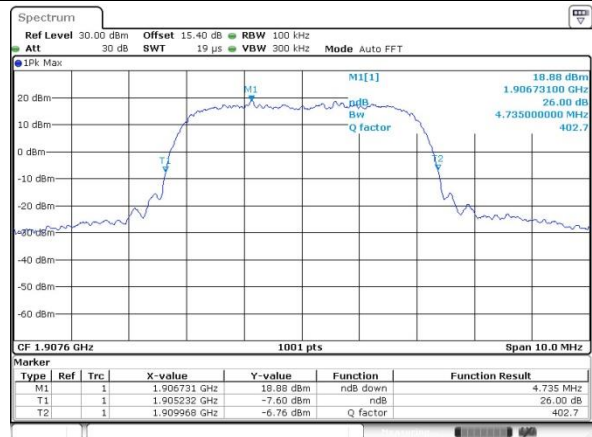
Date: 26 SEP 2022 13:12:35

Highest Channel



Date: 26 SEP 2022 11:38:14

Highest Channel

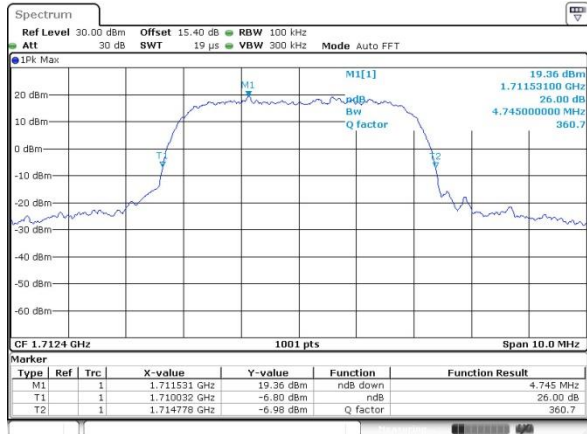


Date: 26 SEP 2022 13:13:13

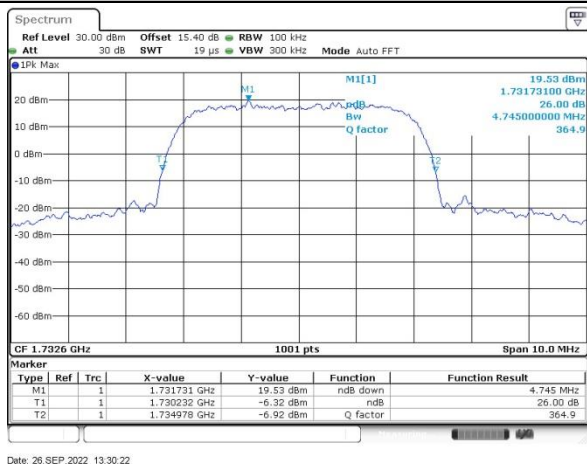


WCDMA Band IV (RMC 12.2Kbps)

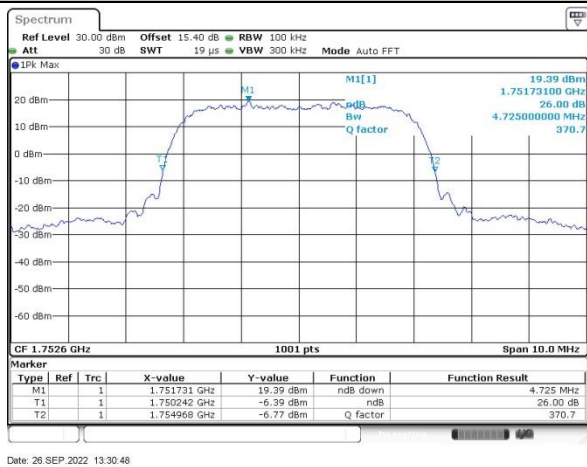
Lowest Channel



Middle Channel



Highest Channel





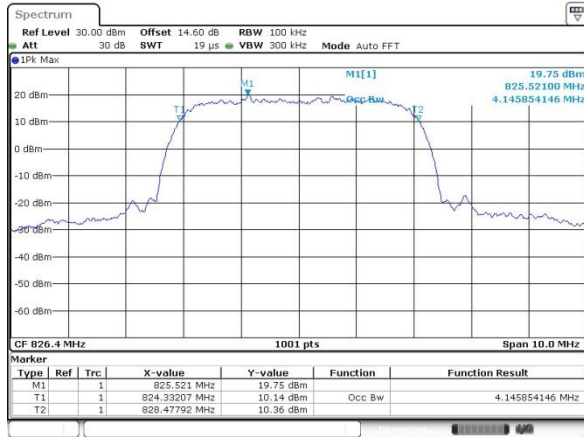
Occupied Bandwidth

Mode	WCDMA Band V(MHz)	WCDMA Band II(MHz)	WCDMA Band IV(MHz)
Mod.	RMC 12.2Kbps	RMC 12.2Kbps	RMC 12.2Kbps
Lowest CH	4.146	4.146	4.146
Middle CH	4.146	4.156	4.166
Highest CH	4.146	4.146	4.156



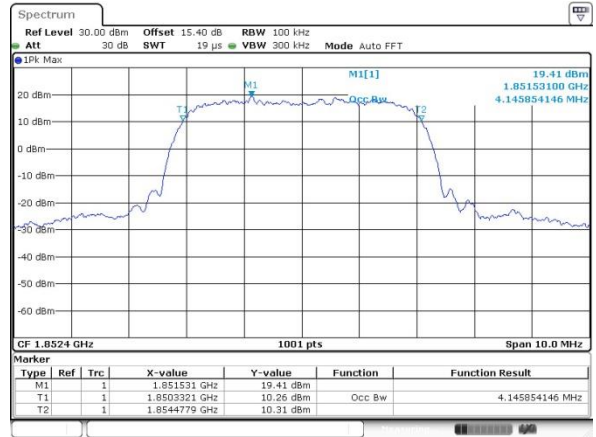
WCDMA Band V (RMC 12.2Kbps)

Lowest Channel

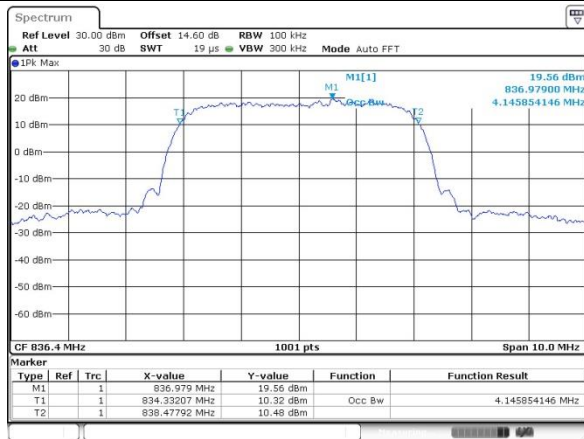


WCDMA Band II (RMC 12.2Kbps)

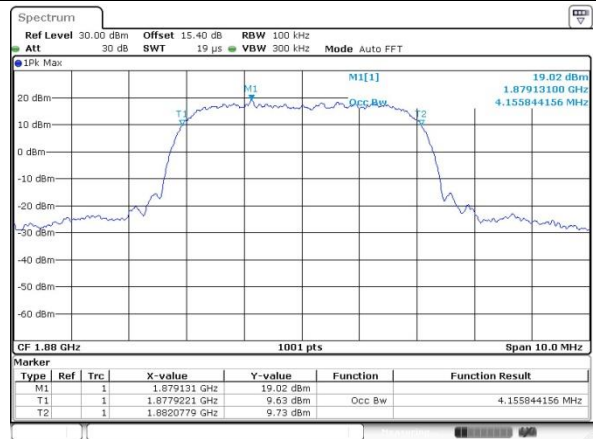
Lowest Channel



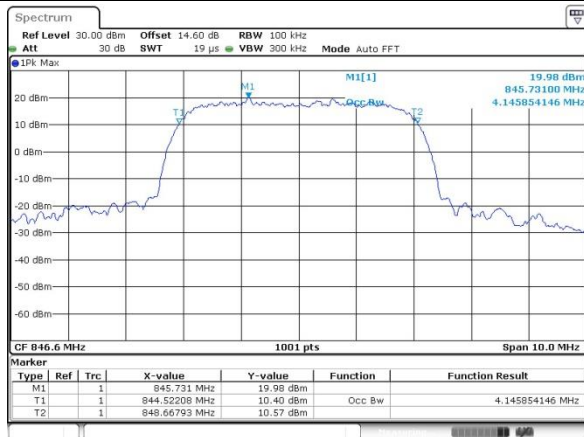
Middle Channel



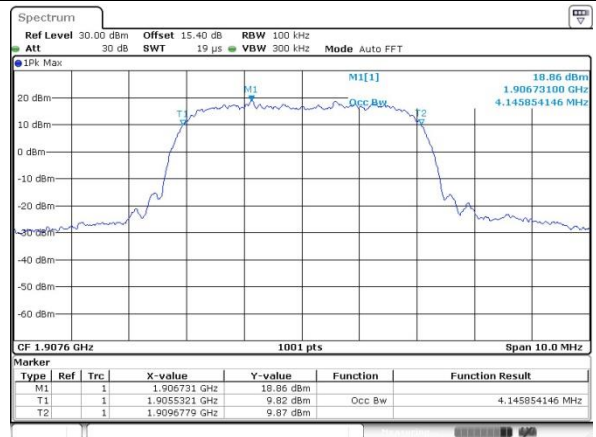
Middle Channel



Highest Channel



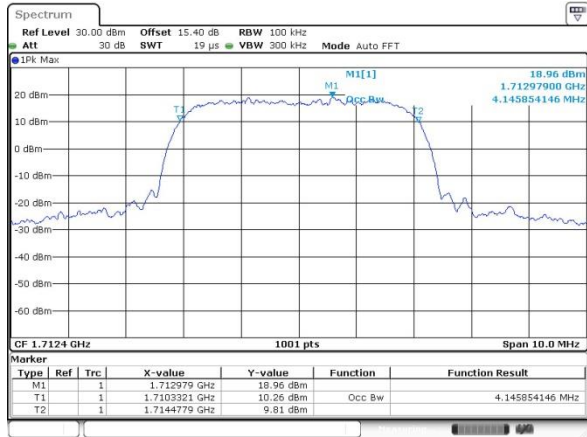
Highest Channel



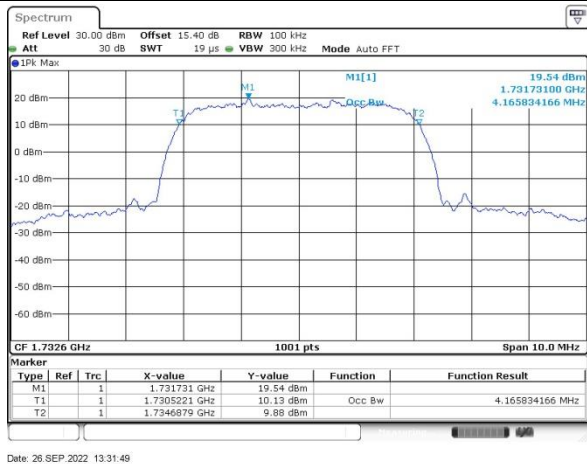


WCDMA Band IV (RMC 12.2Kbps)

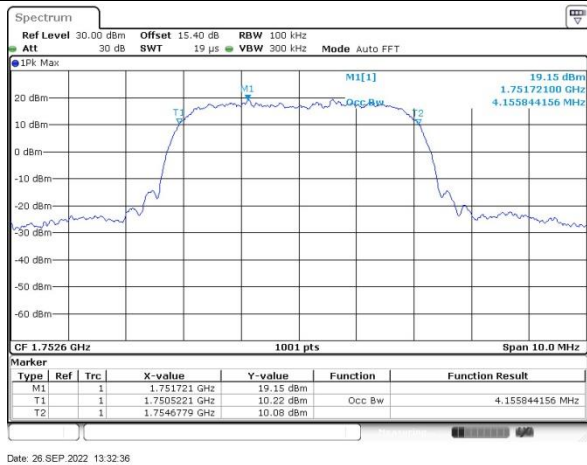
Lowest Channel

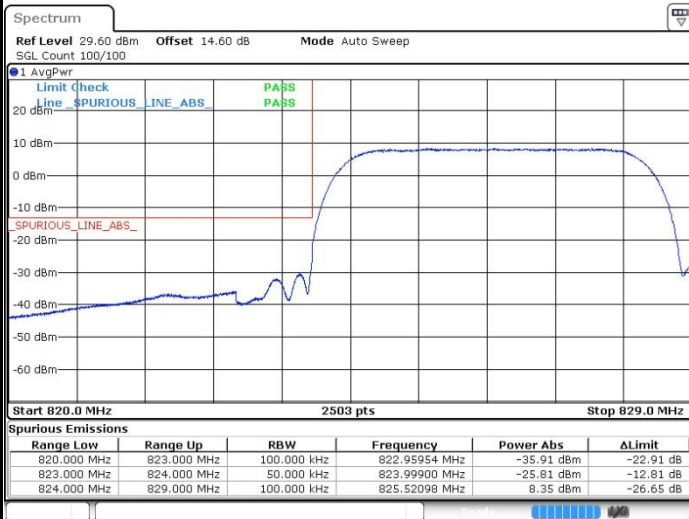
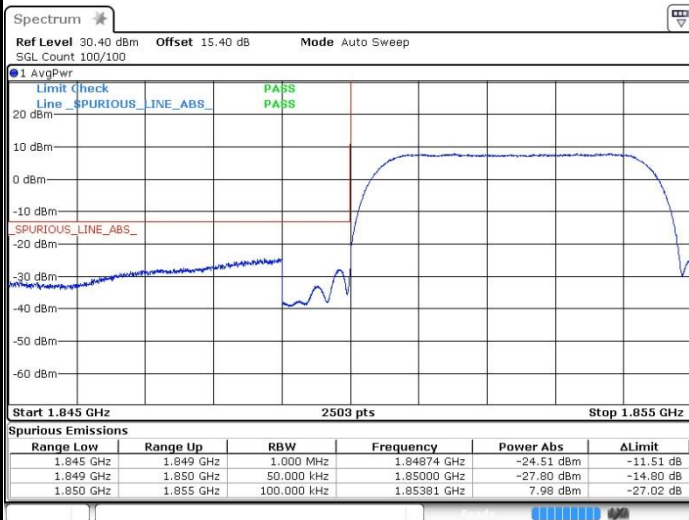
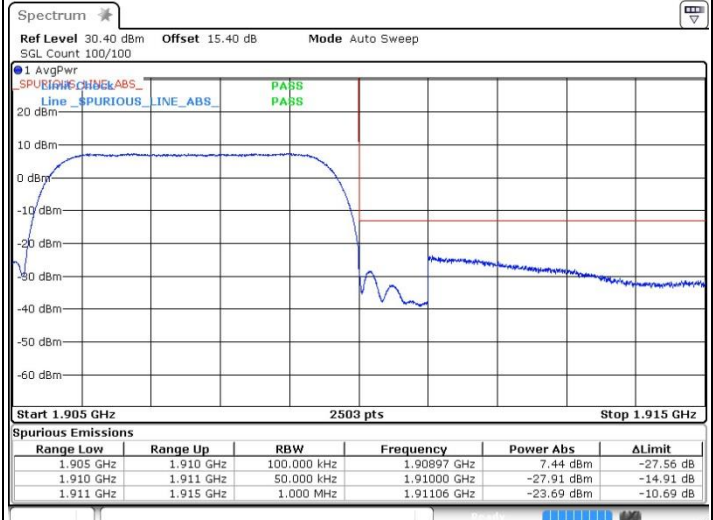


Middle Channel



Highest Channel



**Conducted Band Edge****WCDMA Band V (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge****WCDMA Band II (RMC 12.2Kbps)****Lowest Band Edge****Highest Band Edge**



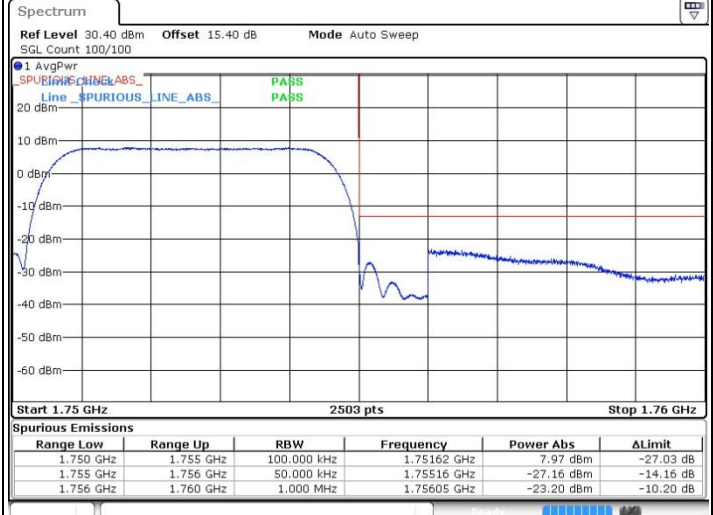
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 26 SEP. 2022 13:34:58



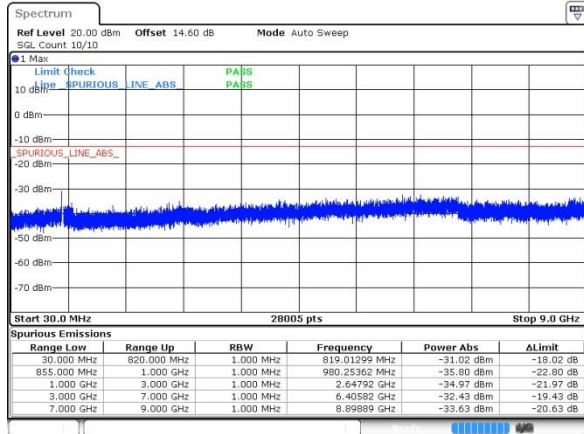
Date: 26 SEP. 2022 13:36:12



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

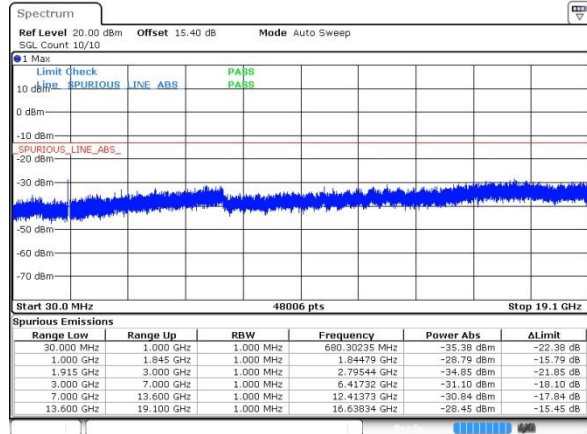
Lowest Channel



Date: 26 SEP 2022 11:57:36

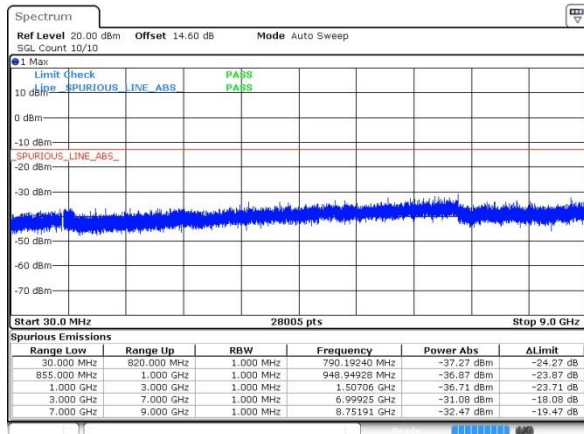
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



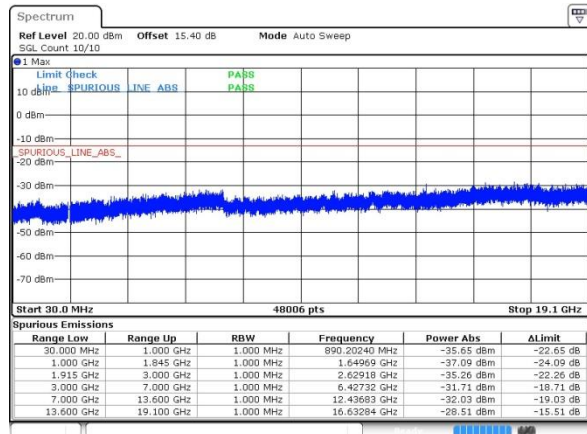
Date: 26 SEP 2022 13:18:43

Middle Channel



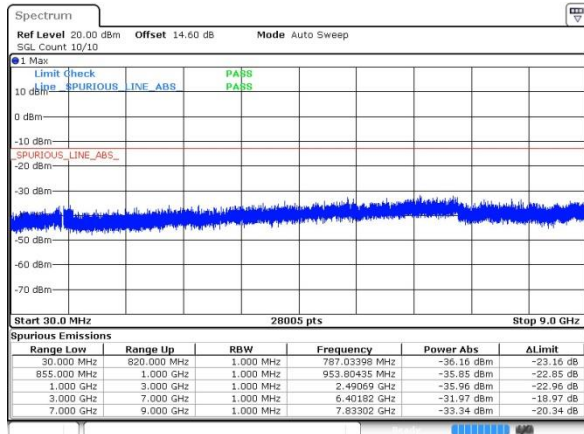
Date: 26 SEP 2022 11:58:11

Middle Channel



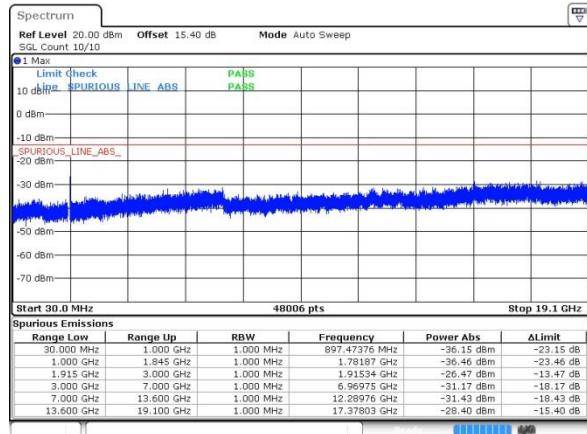
Date: 26 SEP 2022 13:19:08

Highest Channel



Date: 26 SEP 2022 13:02:46

Highest Channel

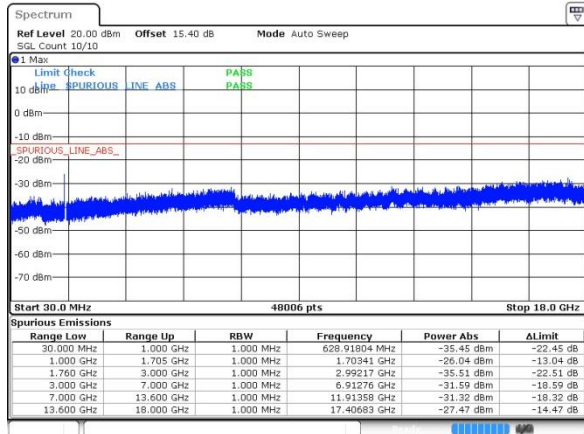


Date: 26 SEP 2022 13:19:36



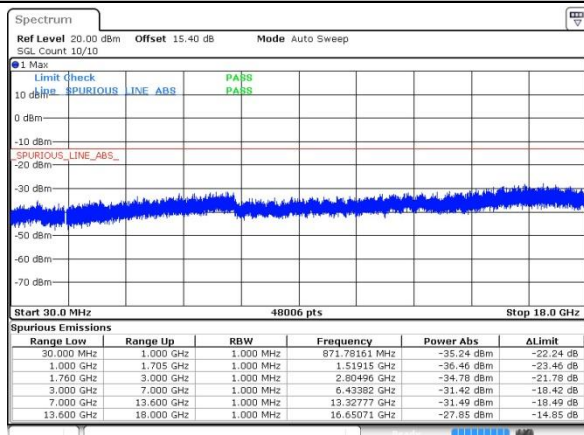
WCDMA Band IV (RMC 12.2Kbps)

Lowest Channel



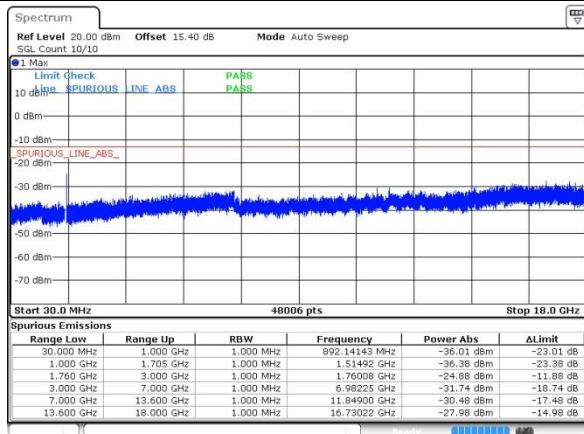
Date: 26 SEP 2022 13:37:16

Middle Channel



Date: 26 SEP 2022 13:37:42

Highest Channel



Date: 26 SEP 2022 13:38:07

**Frequency Stability**

Test Conditions	Middle Channel	WCDMA Band V (RMC 12.2Kbps)	Limit 2.5ppm
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0058	PASS
40	Normal Voltage	0.0377	
30	Normal Voltage	0.0485	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0069	
0	Normal Voltage	0.0344	
-10	Normal Voltage	0.0063	
-20	Normal Voltage	0.0141	
-30	Normal Voltage	0.0325	
20	Maximum Voltage	0.0418	
20	Normal Voltage	0.0176	
20	Battery End Point	0.0063	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0169	PASS
40	Normal Voltage	0.0136	
30	Normal Voltage	0.0144	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0155	
0	Normal Voltage	0.0136	
-10	Normal Voltage	0.0247	
-20	Normal Voltage	0.0072	
-30	Normal Voltage	0.0169	
20	Maximum Voltage	0.0162	
20	Normal Voltage	0.0128	
20	Battery End Point	0.0019	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0048	PASS
40	Normal Voltage	0.0146	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0017	
0	Normal Voltage	0.0044	
-10	Normal Voltage	0.0172	
-20	Normal Voltage	0.0163	
-30	Normal Voltage	0.0061	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0029	
20	Battery End Point	0.0118	

Note:

1. Normal Voltage = 3.85V ; Battery End Point (BEP) =3.5V. ; Maximum Voltage =4.45V
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

Test Engineer :	Carl Ni	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for Ant.0 & Ant.1, we choose the worst antenna mode to perform final test.

GSM850_ANT 0 (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)
Lowest	1648	-49.93	-13	-36.93	-56.90	1.58	10.70	H
	2472	-37.23	-13	-24.23	-45.48	2.102	12.50	H
	3296	-60.36	-13	-47.36	-69.25	2.856	13.90	H
	4120	-54.57	-13	-41.57	-62.16	3.406	13.15	H
	1648	-54.70	-13	-41.70	-61.67	1.58	10.70	V
	2472	-53.71	-13	-40.71	-61.96	2.10	12.50	V
	3296	-60.19	-13	-47.19	-69.08	2.86	13.90	V
	4120	-61.15	-13	-48.15	-68.74	3.41	13.15	V
Middle	1672	-48.25	-13	-35.25	-55.22	1.58	10.70	H
	2512	-37.96	-13	-24.96	-46.21	2.102	12.50	H
	3344	-60.55	-13	-47.55	-69.44	2.856	13.90	H
	4184	-57.11	-13	-44.11	-64.70	3.406	13.15	H
	1672	-55.51	-13	-42.51	-62.48	1.58	10.70	V
	2512	-39.36	-13	-26.36	-47.61	2.10	12.50	V
	3344	-60.76	-13	-47.76	-69.65	2.86	13.90	V
	4184	-57.36	-13	-44.36	-64.95	3.41	13.15	V
Highest	1696	-51.64	-13	-38.64	-58.61	1.58	10.70	H
	2544	-46.75	-13	-33.75	-55.00	2.102	12.50	H
	3392	-60.55	-13	-47.55	-69.44	2.856	13.90	H
	4248	-54.85	-13	-41.85	-62.44	3.406	13.15	H
	1696	-56.55	-13	-43.55	-63.52	1.58	10.70	V
	2544	-35.79	-13	-22.79	-44.04	2.10	12.50	V
	3392	-60.92	-13	-47.92	-69.81	2.86	13.90	V
	4248	-60.40	-13	-47.40	-67.99	3.41	13.15	V

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



GSM850_ANT 0 (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)
Lowest	1648	-43.49	-13	-30.49	-50.46	1.58	10.70	H
	2472	-44.98	-13	-31.98	-53.23	2.102	12.50	H
	3296	-59.07	-13	-46.07	-67.96	2.856	13.90	H
	4120	-43.47	-13	-30.47	-51.93	2.689	13.30	H
	1648	-47.77	-13	-34.77	-54.74	1.58	10.70	V
	2472	-34.00	-13	-21.00	-42.25	2.10	12.50	V
	3296	-58.77	-13	-45.77	-67.66	2.86	13.90	V
	4120	-51.31	-13	-38.31	-59.77	2.69	13.30	V
Middle	1672	-42.00	-13	-29.00	-48.97	1.58	10.70	H
	2512	-37.04	-13	-24.04	-45.29	2.102	12.50	H
	3346	-58.04	-13	-45.04	-66.93	2.856	13.90	H
	4184	-45.23	-13	-32.23	-53.69	2.689	13.30	H
	1672	-43.22	-13	-30.22	-50.19	1.58	10.70	V
	2512	-35.14	-13	-22.14	-43.39	2.10	12.50	V
	3344	-59.14	-13	-46.14	-68.03	2.86	13.90	V
	4184	-47.87	-13	-34.87	-56.33	2.69	13.30	V
Highest	1696	-41.01	-13	-28.01	-47.98	1.58	10.70	H
	2544	-42.61	-13	-29.61	-50.86	2.102	12.50	H
	3392	-58.70	-13	-45.70	-67.59	2.856	13.90	H
	1696	-44.33	-13	-31.33	-51.30	1.58	10.70	V
	2544	-28.31	-13	-15.31	-36.56	2.10	12.50	V
	3392	-59.16	-13	-46.16	-68.05	2.86	13.90	V

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

GSM1900_ANT 0 (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)
Lowest	3705	-56.11	-13	-43.11	-68.37	2.641	14.90	H
	5550	-54.67	-13	-41.67	-66.53	2.94	14.80	H
	7395	-52.24	-13	-39.24	-62.01	3.39	13.16	H
	3705	-56.02	-13	-43.02	-68.28	2.64	14.90	V
	5550	-54.42	-13	-41.42	-66.28	2.94	14.80	V
	7395	-52.25	-13	-39.25	-62.02	3.39	13.16	V
Middle	3765	-56.34	-13	-43.34	-68.60	2.641	14.90	H
	5640	-53.15	-13	-40.15	-65.01	2.94	14.80	H
	7515	-51.80	-13	-38.80	-61.57	3.39	13.16	H
	3765	-55.90	-13	-42.90	-68.16	2.64	14.90	V
	5640	-54.64	-13	-41.64	-66.50	2.94	14.80	V
	7515	-51.59	-13	-38.59	-61.36	3.39	13.16	V
Highest	3825	-56.40	-13	-43.40	-68.66	2.641	14.90	H
	5730	-54.30	-13	-41.30	-66.16	2.94	14.80	H
	7635	-51.63	-13	-38.63	-61.40	3.39	13.16	H
	3825	-56.58	-13	-43.58	-68.84	2.64	14.90	V
	5730	-54.75	-13	-41.75	-66.61	2.94	14.80	V
	7635	-51.11	-13	-38.11	-60.88	3.39	13.16	V

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



GSM1900_ANT 0 (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)
Lowest	3705	-56.40	-13	-43.40	-68.66	2.641	14.90	H
	5550	-45.71	-13	-32.71	-57.57	2.94	14.80	H
	7395	-51.81	-13	-38.81	-61.58	3.39	13.16	H
	3705	-56.14	-13	-43.14	-68.40	2.64	14.90	V
	5550	-50.42	-13	-37.42	-62.28	2.94	14.80	V
	7395	-51.54	-13	-38.54	-61.31	3.39	13.16	V
Middle	3765	-55.87	-13	-42.87	-68.13	2.641	14.90	H
	5640	-40.98	-13	-27.98	-52.84	2.94	14.80	H
	7515	-51.42	-13	-38.42	-61.19	3.39	13.16	H
	3765	-56.08	-13	-43.08	-68.34	2.64	14.90	V
	5640	-47.13	-13	-34.13	-58.99	2.94	14.80	V
	7515	-51.08	-13	-38.08	-60.85	3.39	13.16	V
Highest	3825	-43.91	-13	-30.91	-56.17	2.64	14.90	H
	5730	-40.57	-13	-27.57	-52.43	2.94	14.80	H
	7635	-51.62	-13	-38.62	-61.39	3.39	13.16	H
	3825	-48.42	-13	-35.42	-60.68	2.64	14.90	V
	5730	-42.96	-13	-29.96	-54.82	2.94	14.80	V
	7635	-51.07	-13	-38.07	-60.84	3.39	13.16	V

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

WCDMA Band V_ANT 0 (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)
Lowest	1656	-65.35	-13	-52.35	-72.32	1.58	10.70	H
	2480	-60.48	-13	-47.48	-68.73	2.102	12.50	H
	3304	-60.03	-13	-47.03	-68.92	2.856	13.90	H
	1656	-64.07	-13	-51.07	-71.04	1.58	10.70	V
	2480	-58.72	-13	-45.72	-66.97	2.10	12.50	V
	3304	-60.37	-13	-47.37	-69.26	2.86	13.90	V
Middle	1672	-64.87	-13	-51.87	-71.84	1.58	10.70	H
	2512	-59.74	-13	-46.74	-67.99	2.102	12.50	H
	3344	-59.95	-13	-46.95	-68.84	2.856	13.90	H
	1672	-63.95	-13	-50.95	-70.92	1.58	10.70	V
	2512	-58.17	-13	-45.17	-66.42	2.10	12.50	V
	3344	-60.10	-13	-47.10	-68.99	2.86	13.90	V
Highest	1696	-65.45	-13	-52.45	-72.42	1.58	10.70	H
	2536	-60.18	-13	-47.18	-68.43	2.102	12.50	H
	3384	-60.01	-13	-47.01	-68.90	2.856	13.90	H
	1696	-64.56	-13	-51.56	-71.53	1.58	10.70	V
	2536	-59.94	-13	-46.94	-68.19	2.10	12.50	V
	3384	-59.86	-13	-46.86	-68.75	2.86	13.90	V

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



WCDMA Band II_ANT 0 (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)
Lowest	3705	-56.59	-13	-43.59	-68.85	2.64	14.90	H
	5550	-54.89	-13	-41.89	-66.75	2.94	14.80	H
	7410	-51.79	-13	-38.79	-61.56	3.39	13.16	H
	3705	-56.45	-13	-43.45	-68.71	2.64	14.90	V
	5550	-54.86	-13	-41.86	-66.72	2.94	14.80	V
	7410	-52.15	-13	-39.15	-61.92	3.39	13.16	V
Middle	3759	-57.08	-13	-44.08	-69.34	2.64	14.90	H
	5640	-54.95	-13	-41.95	-66.81	2.94	14.80	H
	7524	-51.95	-13	-38.95	-61.72	3.39	13.16	H
	3759	-56.88	-13	-43.88	-69.14	2.64	14.90	V
	5640	-55.57	-13	-42.57	-67.43	2.94	14.80	V
	7524	-51.95	-13	-38.95	-61.72	3.39	13.16	V
Highest	3810	-56.98	-13	-43.98	-69.24	2.641	14.90	H
	5715	-54.13	-13	-41.13	-65.99	2.94	14.80	H
	7635	-51.99	-13	-38.99	-61.76	3.39	13.16	H
	3810	-56.58	-13	-43.58	-68.84	2.64	14.90	V
	5715	-54.65	-13	-41.65	-66.51	2.94	14.80	V
	7635	-51.69	-13	-38.69	-61.46	3.39	13.16	V

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

WCDMA Band IV_ANT 0 (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)
Lowest	3420	-57.85	-13	-44.85	-68.59	2.604	13.34	H
	5130	-54.45	-13	-41.45	-64.96	3.011	13.52	H
	6855	-53.91	-13	-40.91	-64.11	3.271	13.47	H
	3420	-58.04	-13	-45.04	-68.78	2.604	13.34	V
	5130	-54.31	-13	-41.31	-64.82	3.011	13.52	V
	6855	-53.77	-13	-40.77	-63.97	3.271	13.47	V
Middle	3465	-57.44	-13	-44.44	-68.18	2.604	13.34	H
	5190	-54.08	-13	-41.08	-64.59	3.011	13.52	H
	6930	-53.62	-13	-40.62	-63.82	3.271	13.47	H
	3465	-57.85	-13	-44.85	-68.59	2.604	13.34	V
	5190	-54.67	-13	-41.67	-65.18	3.011	13.52	V
	6930	-52.93	-13	-39.93	-63.13	3.271	13.47	V
Highest	3510	-57.17	-13	-44.17	-67.91	2.604	13.34	H
	5250	-53.88	-13	-40.88	-64.39	3.011	13.52	H
	7005	-53.82	-13	-40.82	-64.02	3.271	13.47	H
	3510	-57.51	-13	-44.51	-68.25	2.604	13.34	V
	5250	-54.59	-13	-41.59	-65.10	3.011	13.52	V
	7005	-53.43	-13	-40.43	-63.63	3.271	13.47	V

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