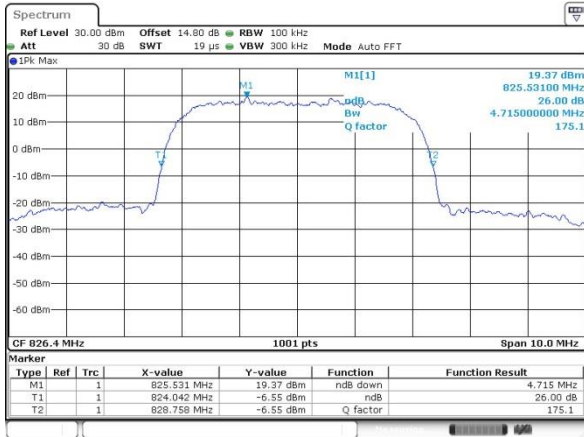




WCDMA Band V (RMC 12.2Kbps)

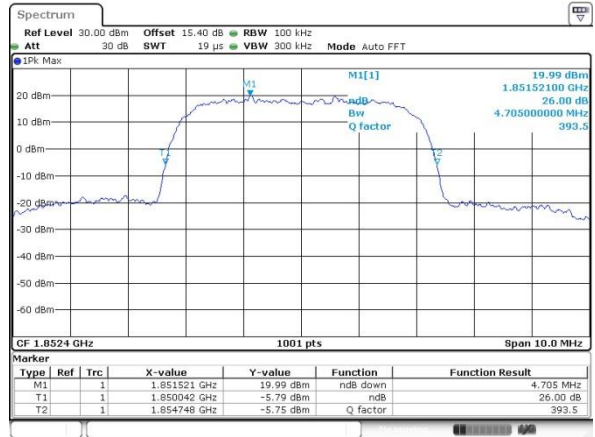
Lowest Channel



Date: 20.MAY.2024 10:22:39

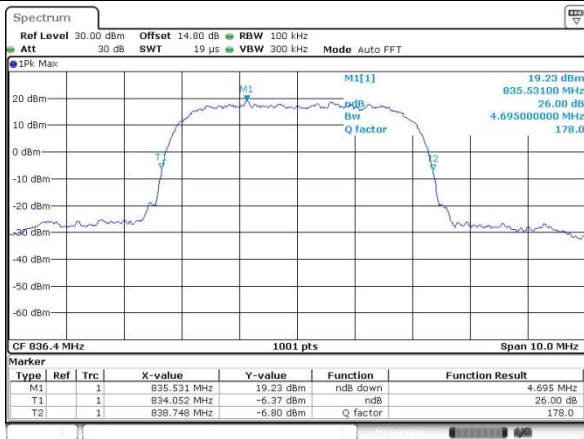
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



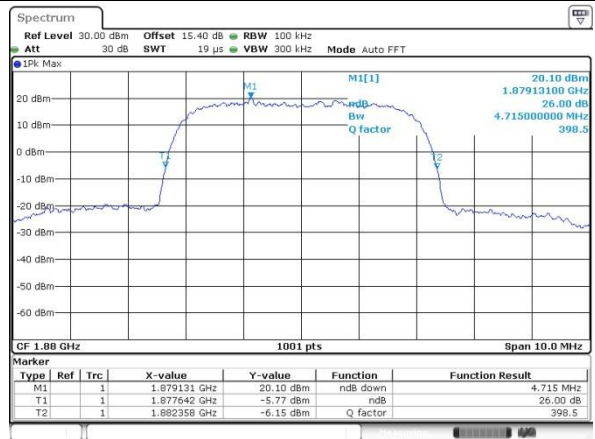
Date: 20.MAY.2024 15:18:53

Middle Channel



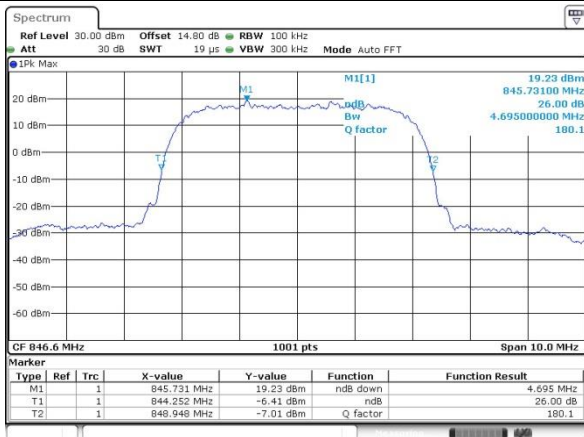
Date: 20.MAY.2024 10:23:12

Middle Channel



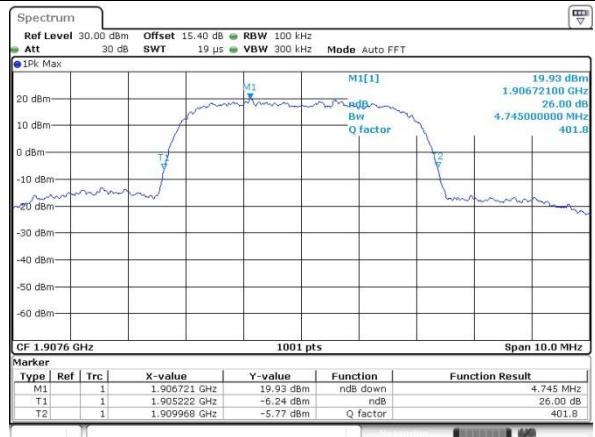
Date: 20.MAY.2024 15:19:25

Highest Channel



Date: 20.MAY.2024 10:23:39

Highest Channel

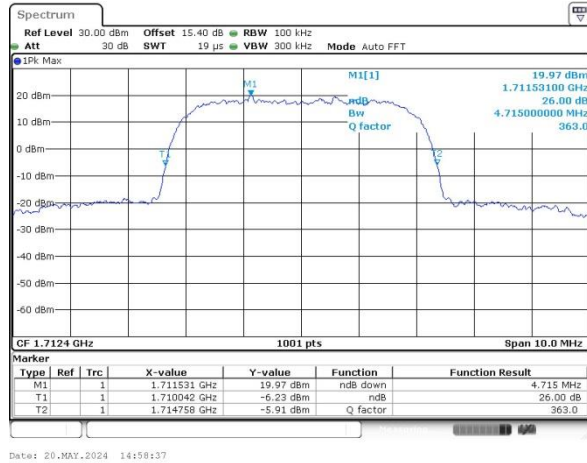


Date: 20.MAY.2024 15:19:55

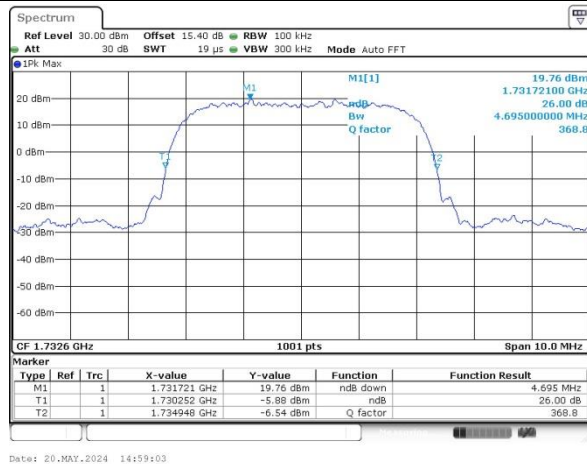


WCDMA Band IV (RMC 12.2Kbps)

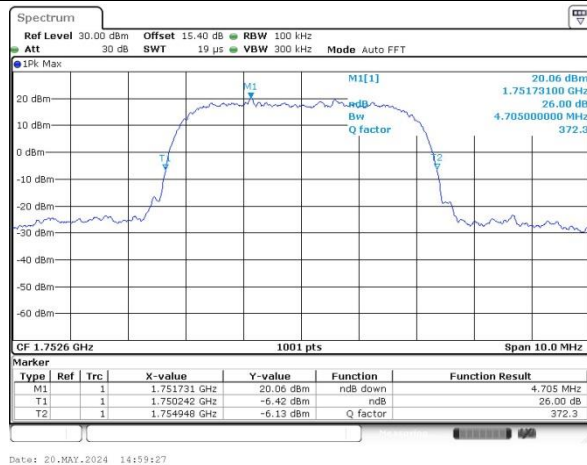
Lowest Channel



Middle Channel



Highest Channel





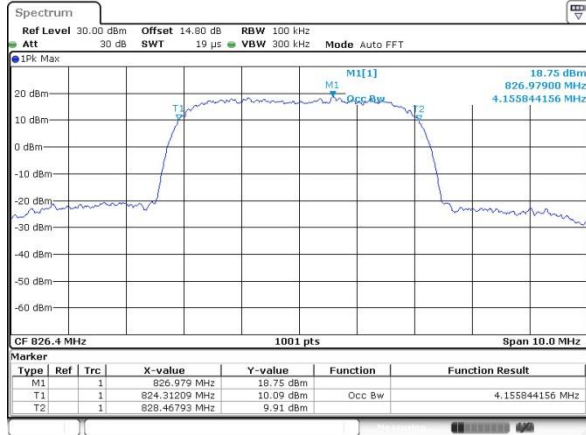
Occupied Bandwidth

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



WCDMA Band V (RMC 12.2Kbps)

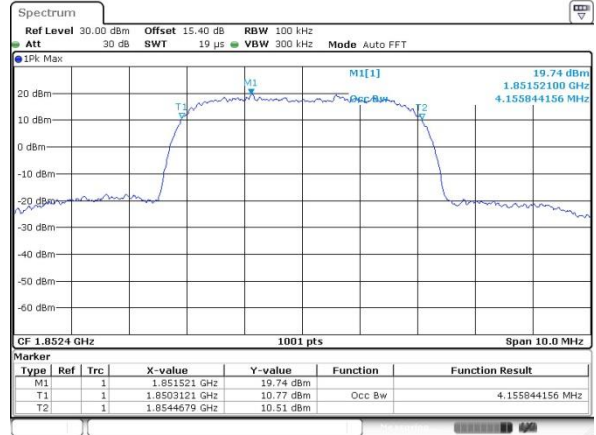
Lowest Channel



Date: 20.MAY.2024 10:24:10

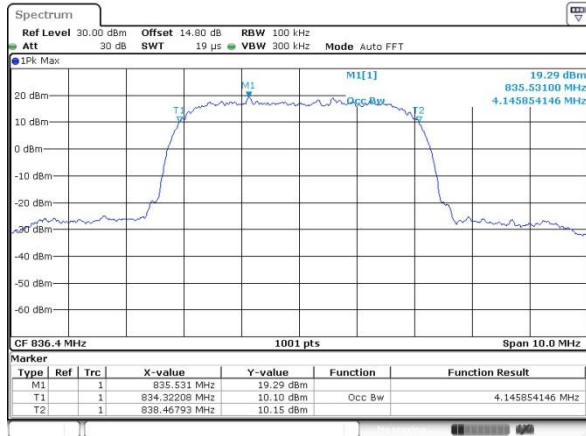
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



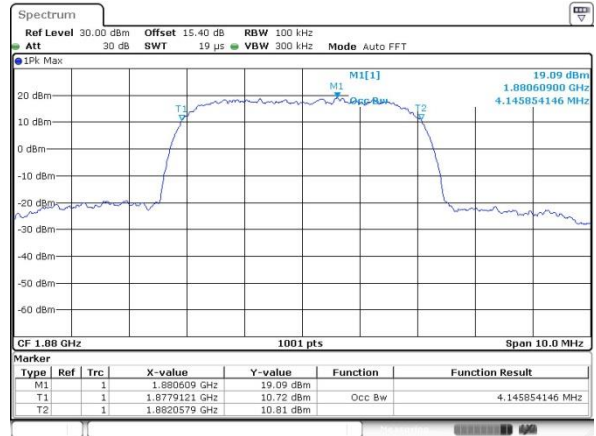
Date: 20.MAY.2024 15:20:26

Middle Channel



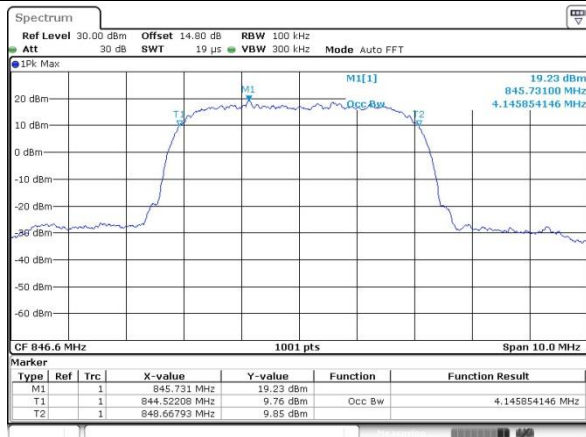
Date: 20.MAY.2024 10:24:40

Middle Channel



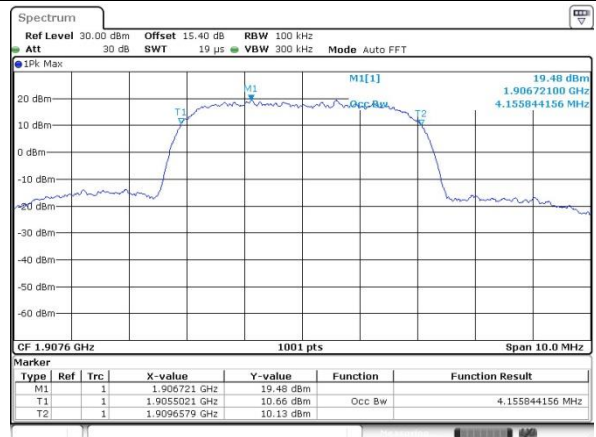
Date: 20.MAY.2024 15:20:50

Highest Channel



Date: 20.MAY.2024 10:25:09

Highest Channel

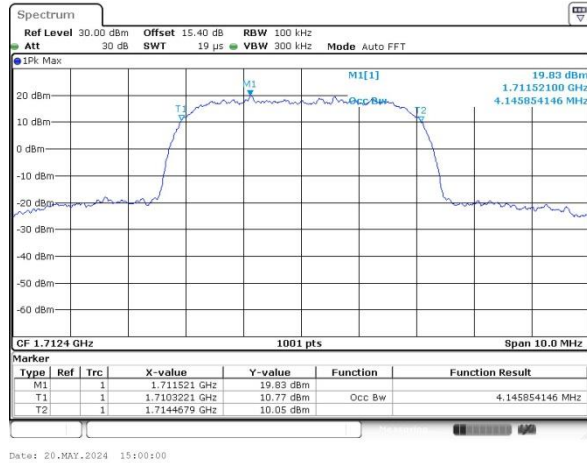


Date: 20.MAY.2024 15:21:14

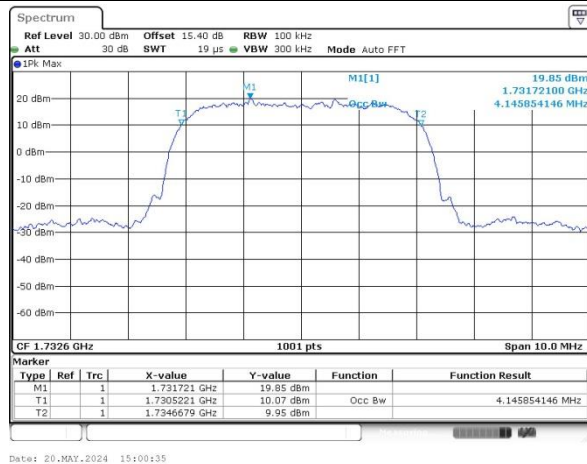


WCDMA Band IV (RMC 12.2Kbps)

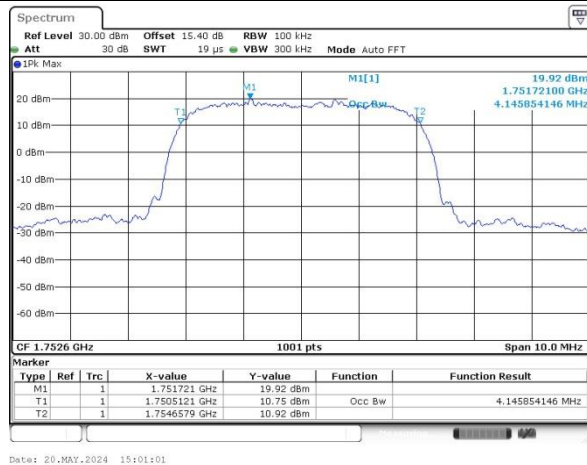
Lowest Channel



Middle Channel



Highest Channel

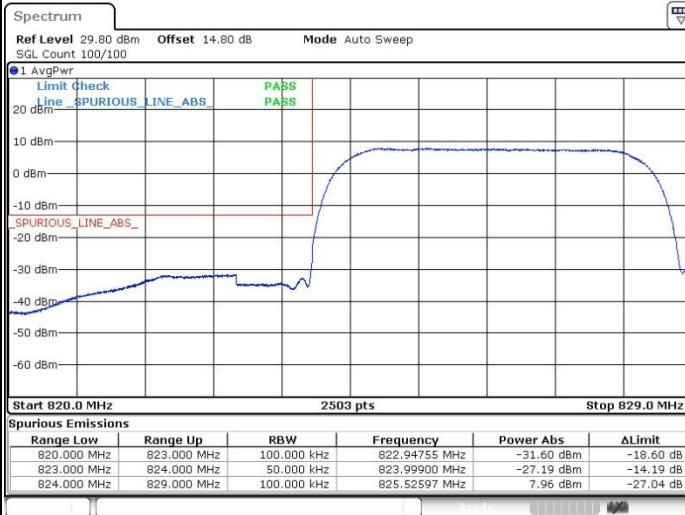




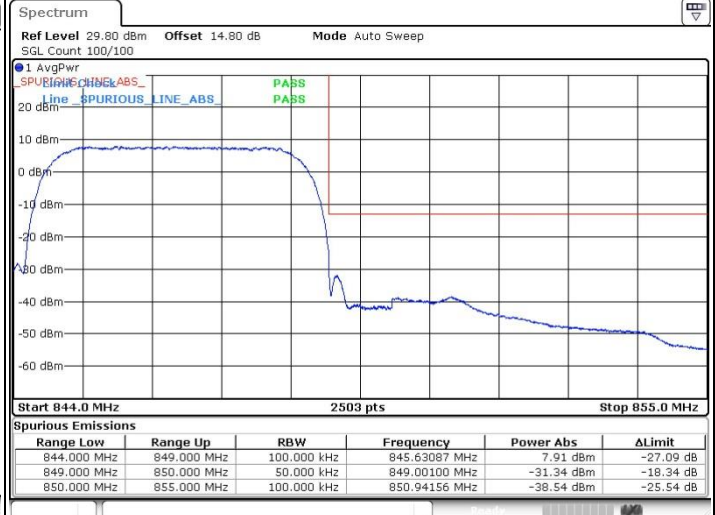
Conducted Band Edge

WCDMA Band V (RMC 12.2Kbps)

Lowest Band Edge

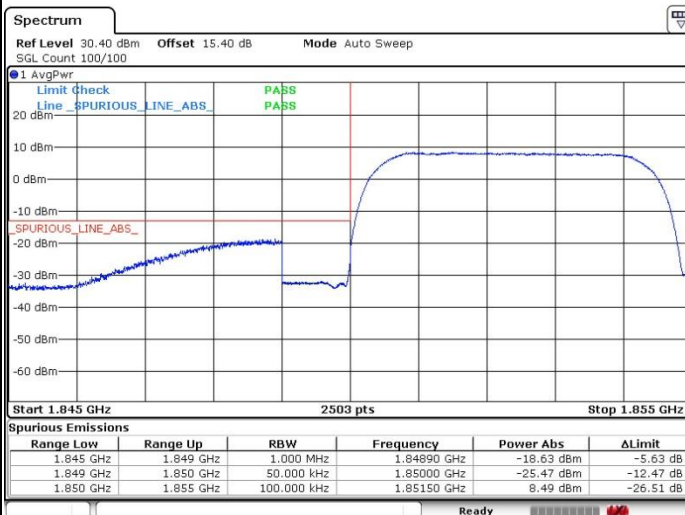


Highest Band Edge

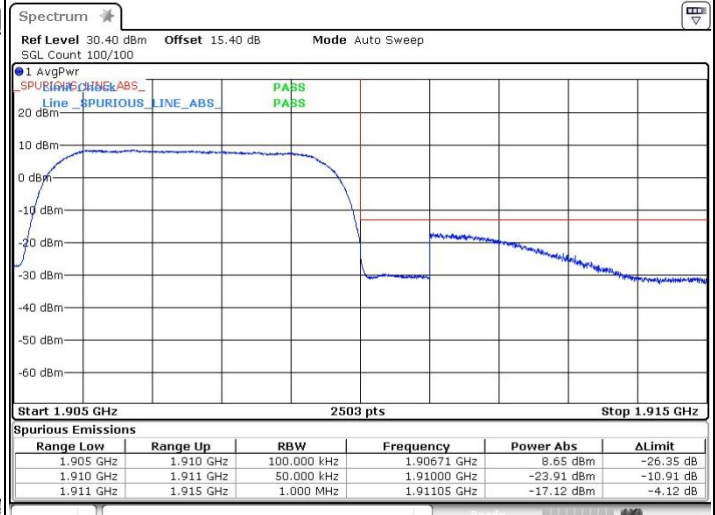


WCDMA Band II (RMC 12.2Kbps)

Lowest Band Edge



Highest Band Edge

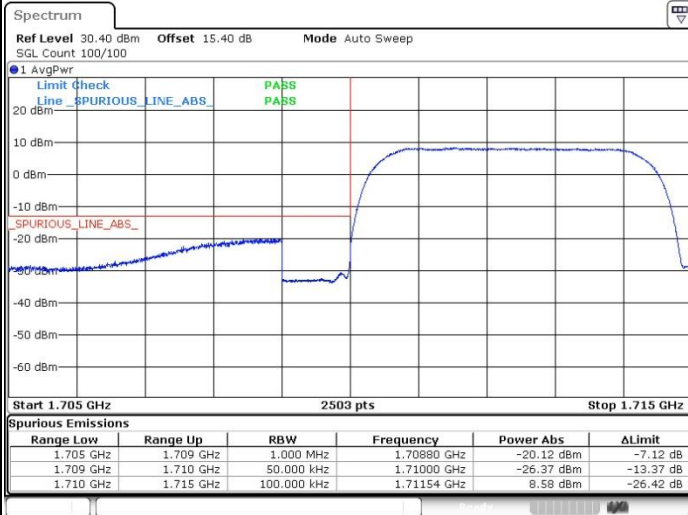




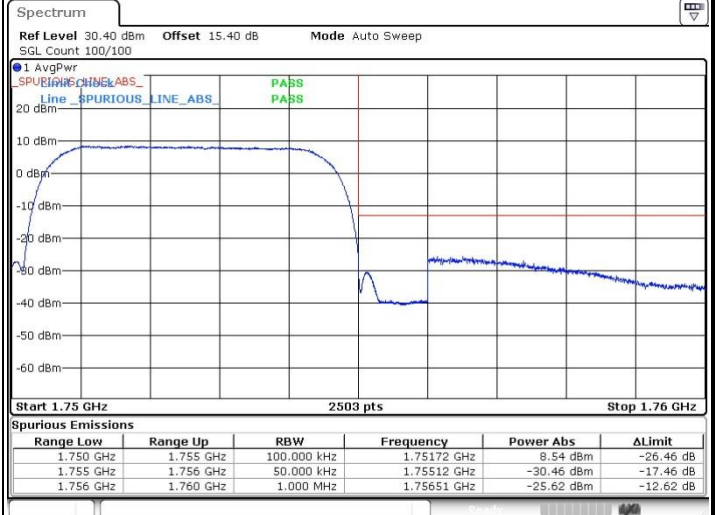
WCDMA Band IV (RMC 12.2Kbps)

Lowest Band Edge

Highest Band Edge



Date: 20.MAY.2024 15:05:06



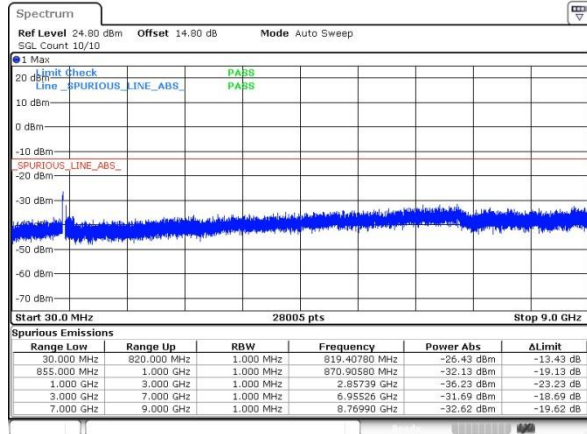
Date: 20.MAY.2024 15:07:13



Conducted Spurious Emission

WCDMA Band V (RMC 12.2Kbps)

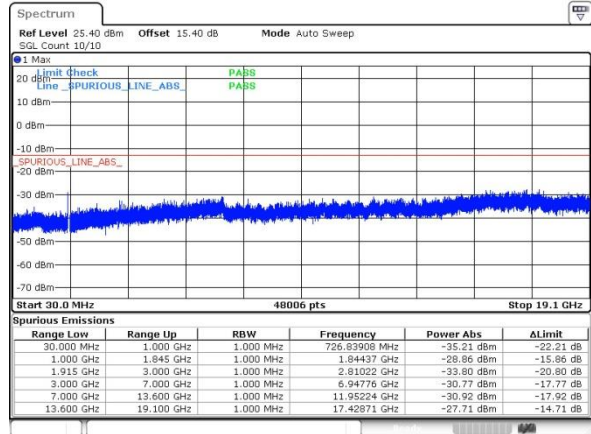
Lowest Channel



Date: 20.MAY.2024 10:37:02

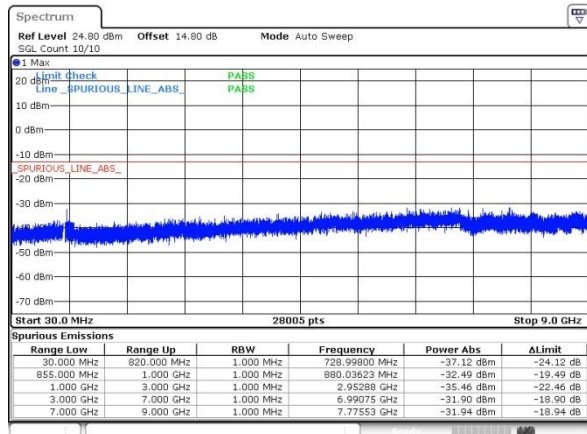
WCDMA Band II (RMC 12.2Kbps)

Lowest Channel



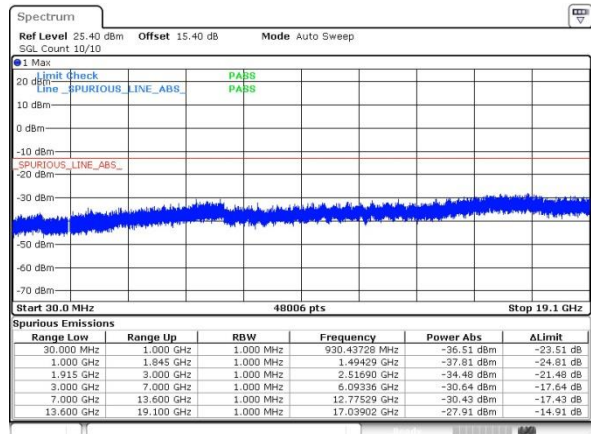
Date: 20.MAY.2024 15:31:06

Middle Channel



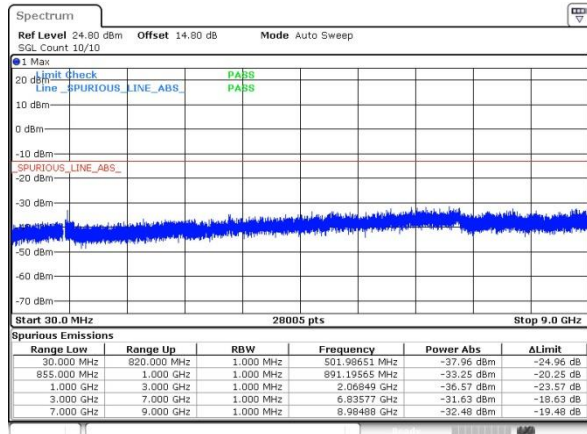
Date: 20.MAY.2024 10:39:05

Middle Channel



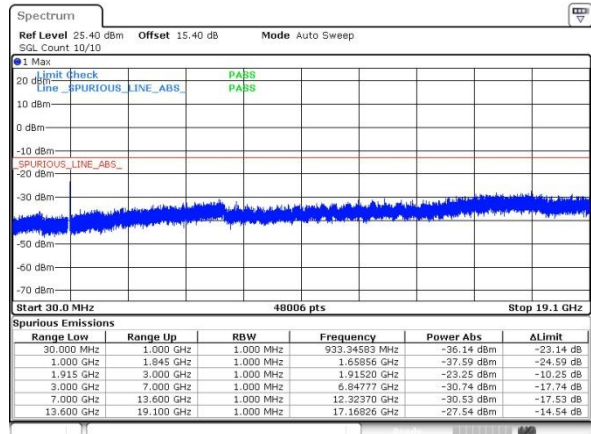
Date: 20.MAY.2024 15:33:43

Highest Channel



Date: 20.MAY.2024 10:42:19

Highest Channel

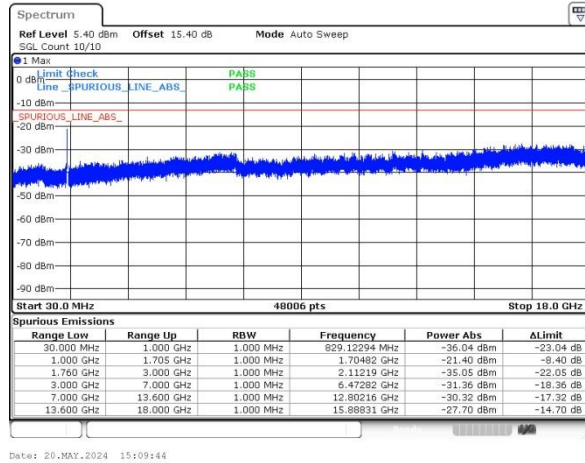


Date: 20.MAY.2024 15:36:14

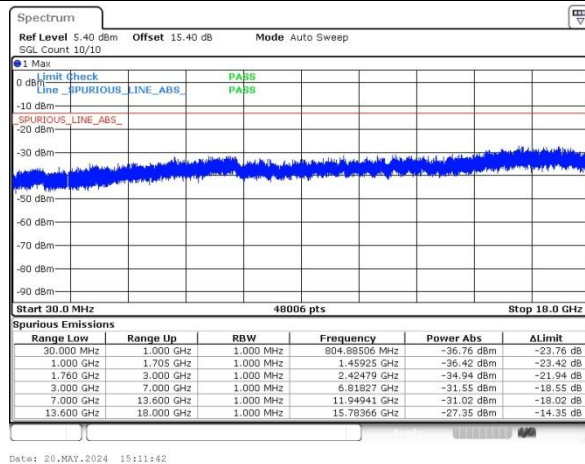


WCDMA Band IV (RMC 12.2Kbps)

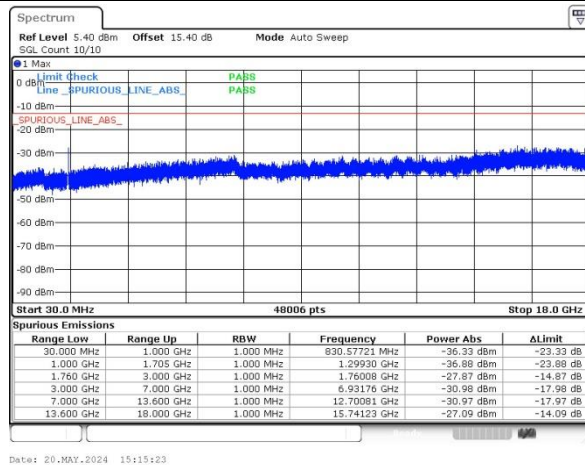
Lowest Channel



Middle Channel



Highest Channel



**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	0.0051	PASS
40	Normal Voltage	0.0389	
30	Normal Voltage	0.0442	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0057	
0	Normal Voltage	0.0242	
-10	Normal Voltage	0.0009	
-20	Normal Voltage	0.0117	
-30	Normal Voltage	0.0323	
20	Maximum Voltage	0.0447	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0073	

Test Conditions	Middle Channel	WCDMA Band II (RMC 12.2Kbps)	Limit
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Note 2. Result
50	Normal Voltage	0.0266	PASS
40	Normal Voltage	0.0148	
30	Normal Voltage	0.0157	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0549	
0	Normal Voltage	0.0132	
-10	Normal Voltage	0.0274	
-20	Normal Voltage	0.0062	
-30	Normal Voltage	0.0138	
20	Maximum Voltage	0.0159	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0018	



Test Conditions	Middle Channel	WCDMA Band IV (RMC 12.2Kbps)	Limit Note 2.
Temperature (°C)	Voltage (Volt)	Deviation (ppm)	Result
50	Normal Voltage	0.0097	PASS
40	Normal Voltage	0.0142	
30	Normal Voltage	0.0059	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0146	
-10	Normal Voltage	0.0153	
-20	Normal Voltage	0.0174	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0207	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0127	

Note:

1. Normal Voltage = 3.89V ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.3V
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 :	HuaCong Liang	Temperature :	22~25°C
		Relative Humidity :	48~52%

Note: Pre-scanned harmonic for the different antennas, we choose the worst antenna mode to perform final test and record in the report.

GSM850 (GSM) for Ant.0									
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	-64.68	-13	-51.68	-76.94	-67.93	4.00	9.40	H
	2509.2	-48.48	-13	-35.48	-67.98	-52.05	4.88	10.60	H
	3345.6	-59.27	-13	-46.27	-80.61	-64.20	5.52	12.60	H
	1672.8	-61.47	-13	-48.47	-74.44	-64.72	4.00	9.40	V
	2509.2	-48.74	-13	-35.74	-68.45	-52.31	4.88	10.60	V
	3345.6	-58.63	-13	-45.63	-80.27	-63.56	5.52	12.60	V

GSM850 (EDGE 1 Tx slots) for Ant.0									
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	-65.09	-13	-52.09	-77.35	-68.34	4.00	9.40	H
	2509.2	-47.91	-13	-34.91	-67.41	-51.48	4.88	10.60	H
	3345.6	-59.31	-13	-46.31	-80.65	-64.24	5.52	12.60	H
	1672.8	-62.27	-13	-49.27	-75.24	-65.52	4.00	9.40	V
	2509.2	-49.13	-13	-36.13	-68.84	-52.70	4.88	10.60	V
	3345.6	-59.12	-13	-46.12	-80.76	-64.05	5.52	12.60	V

GSM1900 (GSM) for Ant.4									
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	-57.84	-13	-44.84	-80.33	-64.59	5.85	12.60	H
	5640	-56.98	-13	-43.98	-81.38	-62.78	7.30	13.10	H
	7520	-54.47	-13	-41.47	-81.35	-57.62	8.35	11.50	H
	3760	-55.30	-13	-42.30	-80.95	-62.05	5.85	12.60	V
	5640	-56.70	-13	-43.70	-81.25	-62.50	7.30	13.10	V
	7520	-54.50	-13	-41.50	-81.36	-57.65	8.35	11.50	V



GSM1900 (EDGE 1 Tx slots) for Ant.4									
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	-57.65	-13	-44.65	-80.14	-64.40	5.85	12.60	H
	5640	-56.58	-13	-43.58	-80.98	-62.38	7.30	13.10	H
	7520	-54.45	-13	-41.45	-81.33	-57.60	8.35	11.50	H
	3760	-55.15	-13	-42.15	-80.8	-61.90	5.85	12.60	V
	5640	-56.47	-13	-43.47	-81.02	-62.27	7.30	13.10	V
	7520	-54.62	-13	-41.62	-81.48	-57.77	8.35	11.50	V

WCDMA Band V(RMC 12.2Kbps) for Ant.0									
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	-65.32	-13	-52.32	-77.58	-68.57	4.00	9.40	H
	2509.2	-60.26	-13	-47.26	-79.76	-63.83	4.88	10.60	H
	3345.6	-59.05	-13	-46.05	-80.39	-63.98	5.52	12.60	H
	1672.8	-64.49	-13	-51.49	-77.46	-67.74	4.00	9.40	V
	2509.2	-60.26	-13	-47.26	-79.97	-63.83	4.88	10.60	V
	3345.6	-58.89	-13	-45.89	-80.53	-63.82	5.52	12.60	V

WCDMA Band II(RMC 12.2Kbps) for Ant.4									
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	-57.81	-13	-44.81	-80.30	-64.56	5.85	12.60	H
	5640	-56.97	-13	-43.97	-81.37	-62.77	7.30	13.10	H
	7520	-54.76	-13	-41.76	-81.64	-57.91	8.35	11.50	H
	3760	-55.23	-13	-42.23	-80.88	-61.98	5.85	12.60	V
	5640	-56.61	-13	-43.61	-81.16	-62.41	7.30	13.10	V
	7520	-54.64	-13	-41.64	-81.5	-57.79	8.35	11.50	V

WCDMA Band IV(RMC 12.2Kbps) for Ant.4									
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	3465.2	-55.25	-13	-42.25	-77.50	-62.10	5.65	12.50	H
	5197.8	-55.24	-13	-42.24	-80.09	-60.91	7.13	12.80	H
	6930.4	-54.87	-13	-41.87	-81.16	-58.27	8.40	11.80	H
	3465.2	-55.78	-13	-42.78	-77.83	-62.63	5.65	12.50	V
	5197.8	-55.33	-13	-42.33	-80.45	-61.00	7.13	12.80	V
	6930.4	-54.07	-13	-41.07	-81.28	-57.47	8.40	11.80	V

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