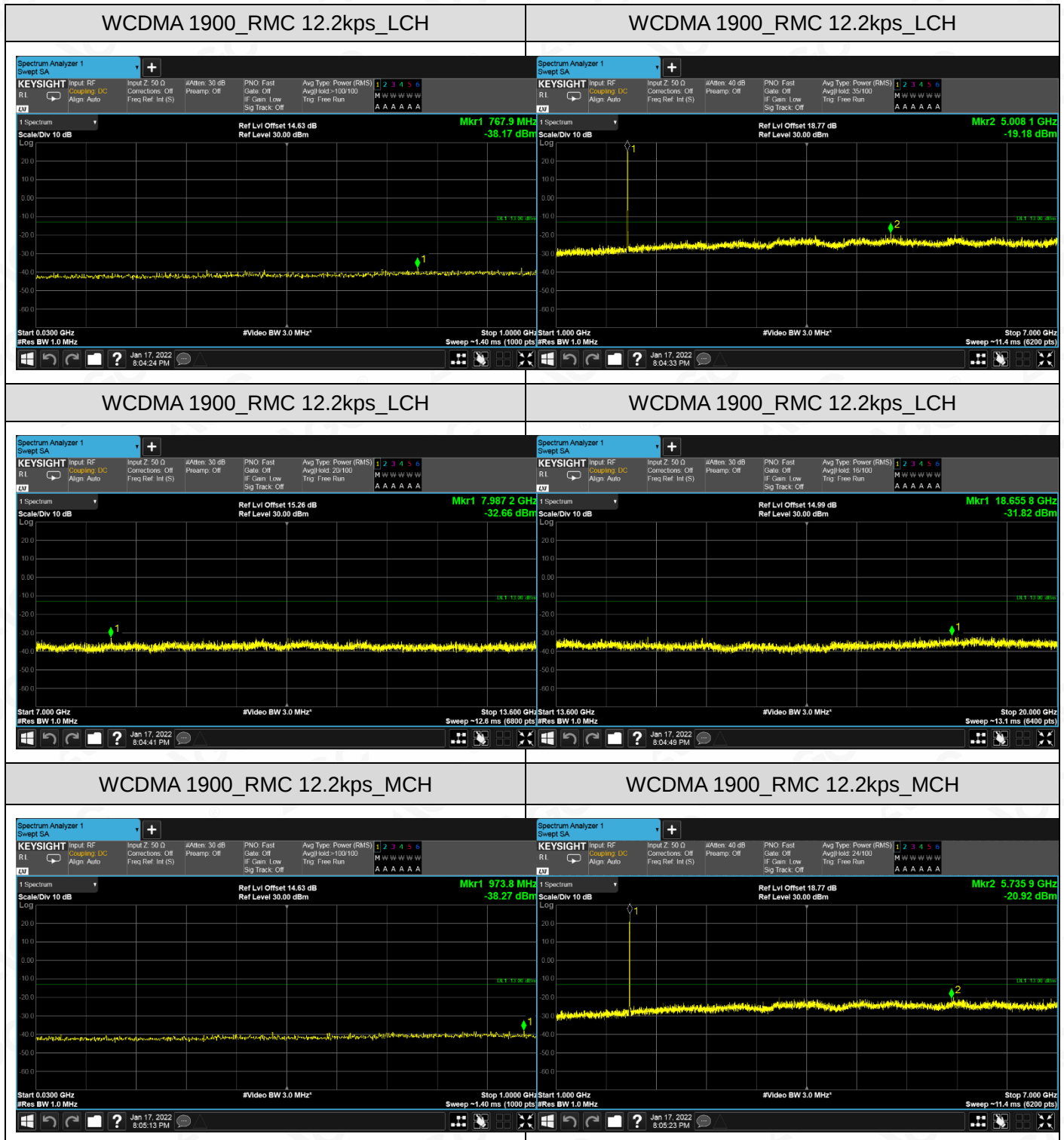
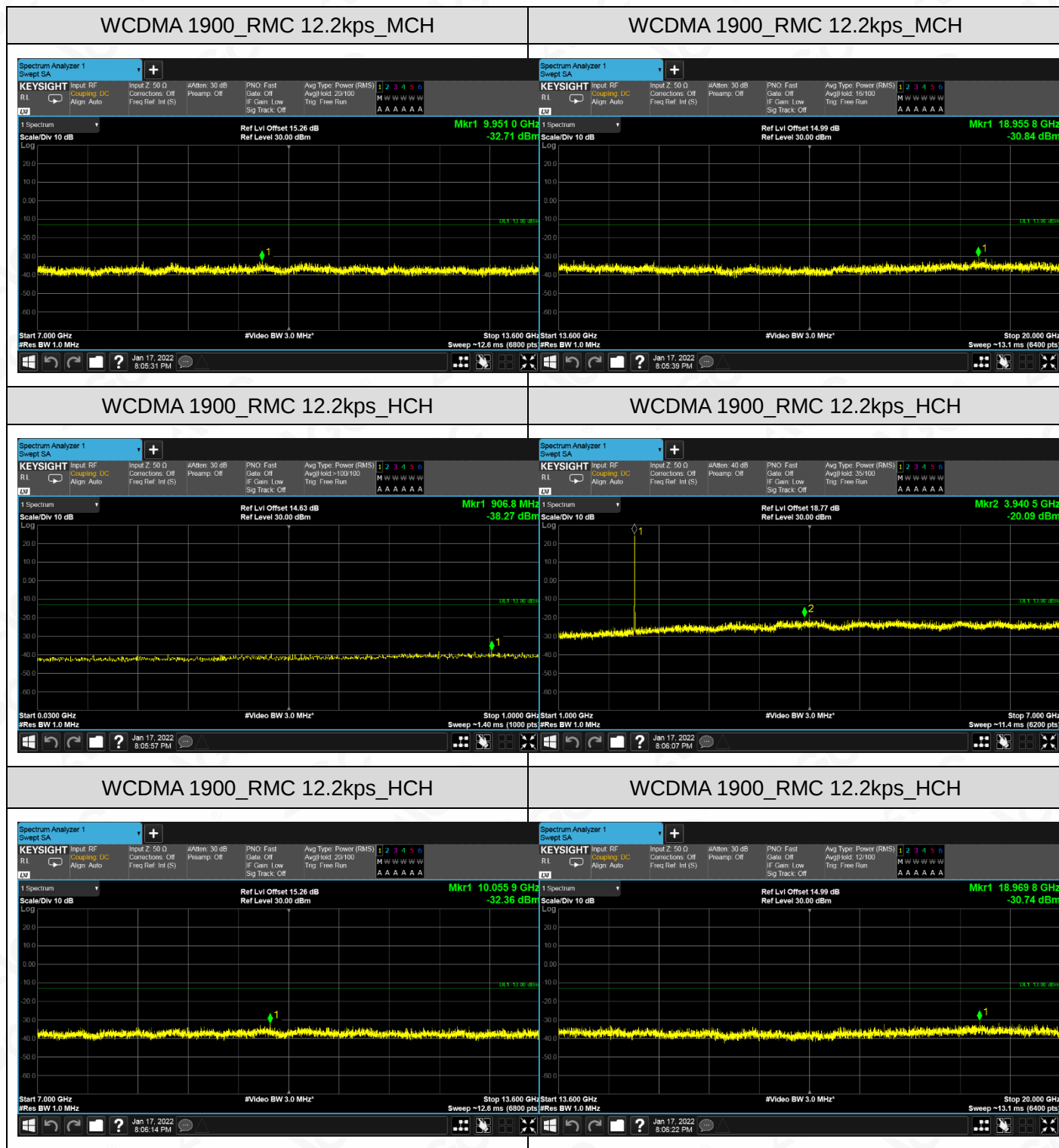




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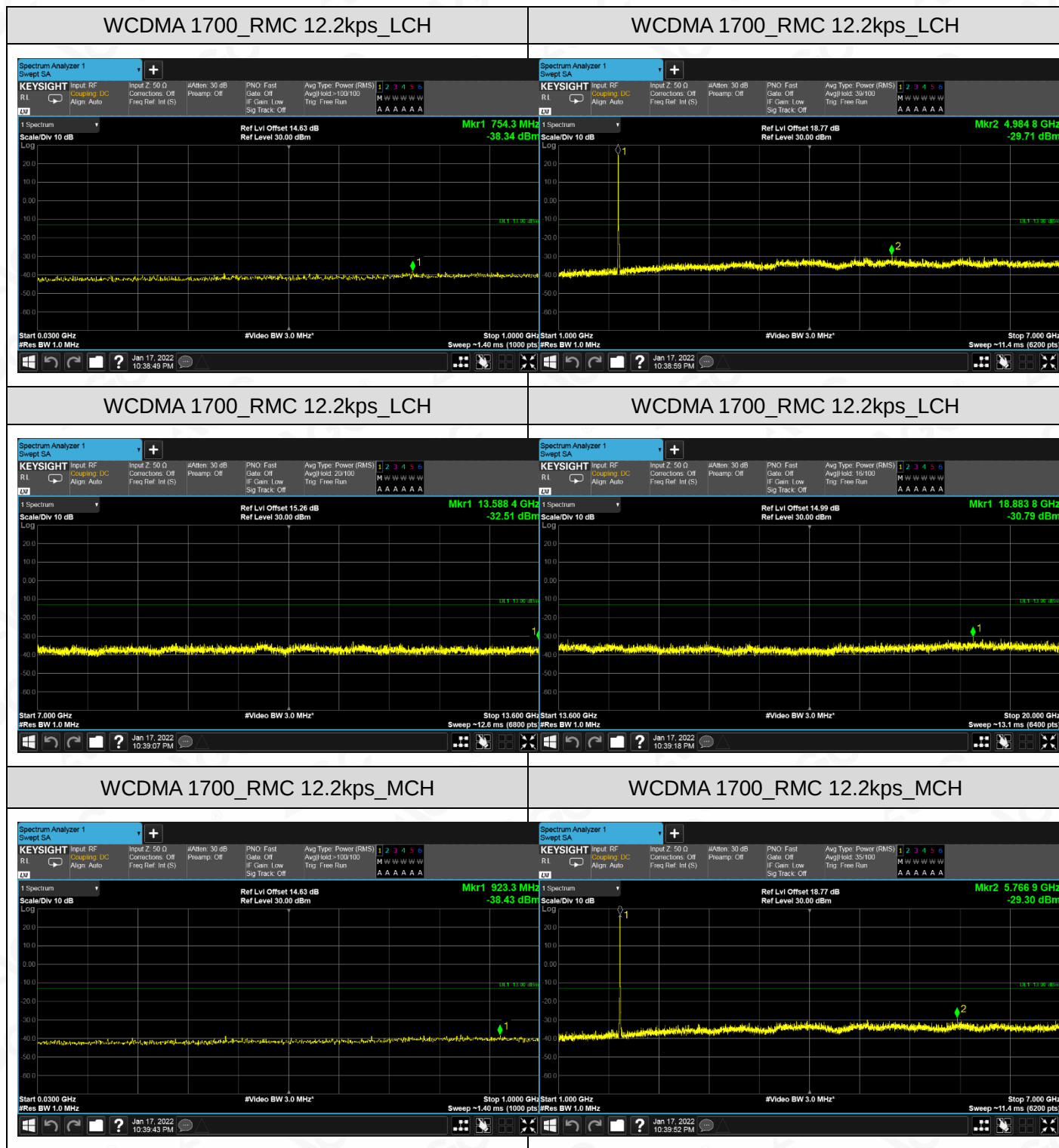




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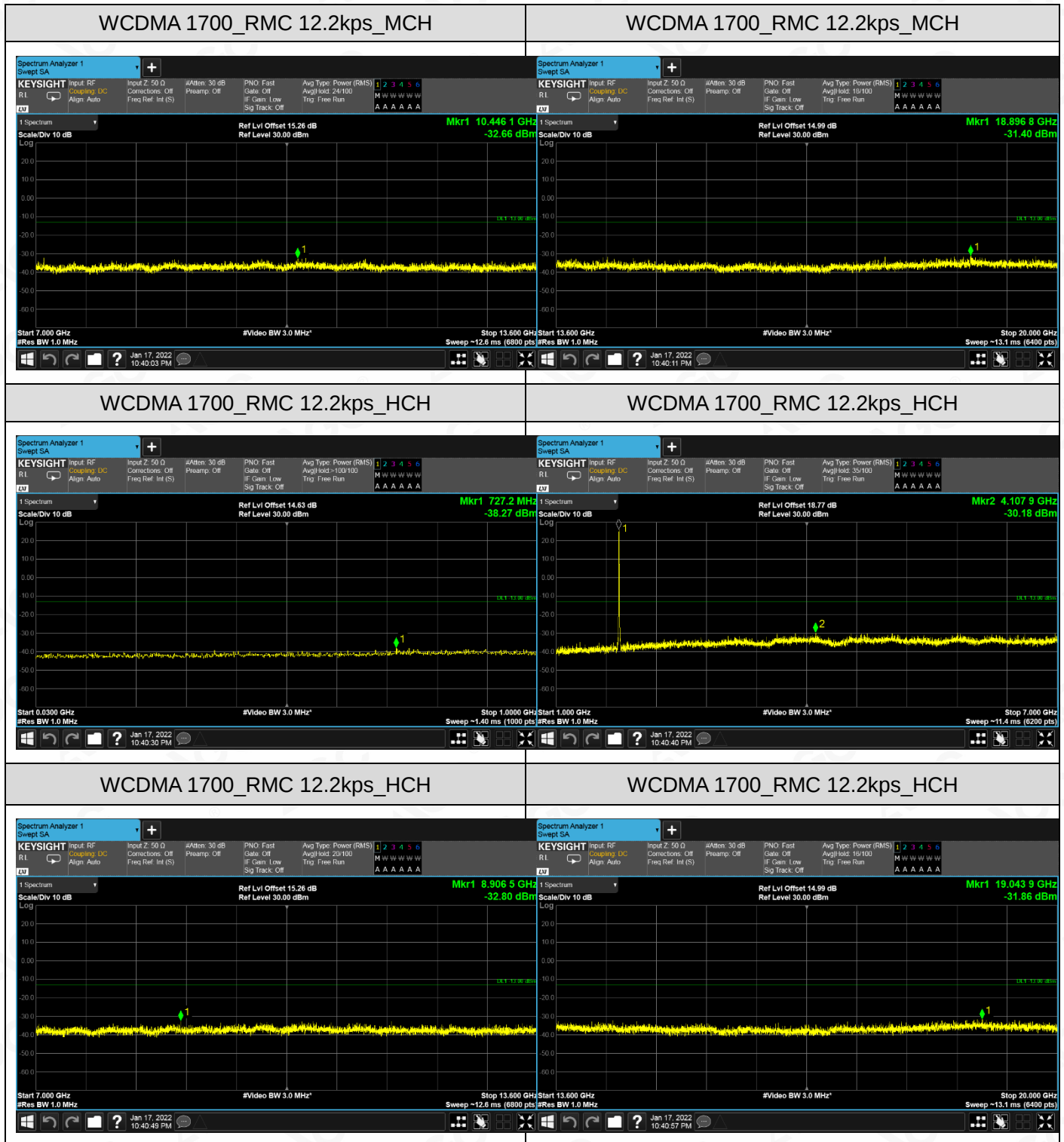




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- Note:** 1. Below 30MHz no Spurious found and Above is the worst mode data.
2. As no emission found in standby or receive mode, no recording in this report.

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13. RADIATED SPURIOUS EMISSION

13.1. PROVISIONS APPLICABLE

(A) On any frequency outside a licensee's frequency block (e.g. A, D, B, etc.) within the USPCS spectrum, the power of any emission shall be attenuated below the transmitter power (P, in Watts) by at least $43+10\log(P)$ dB. The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log (P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm.

At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

(B) For specific criteria, please refer to the description in section 9.2 of the report for corresponding evaluation.

13.2. MEASUREMENT PROCEDURE

1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

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9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High - Low scan is not required in this case.
11. For spurious emissions above 1GHz, a horn antenna is substituted in place of the EUT.
The substitute antenna is driven by a signal generator and the previously recorded signal was duplicated.
The spurious emissions is calculated by the following formula;

$$\text{Result(dBm)} = \text{Pg(dBm)} + \text{Factor(dB)}$$

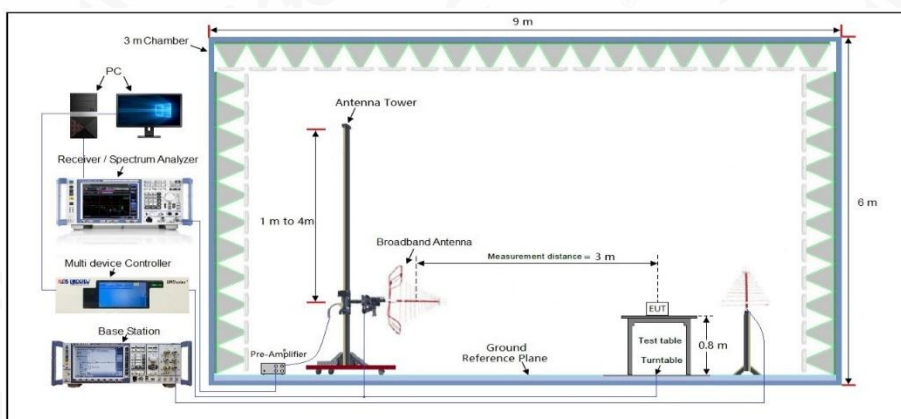
$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} + \text{Power Splitter(dB)} \text{ (Above 1GHz)}$$

$$\text{Factor(dB)} = \text{Ant Gain(dB)} - \text{Cable Loss(dB)} \text{ (Below 1GHz)}$$
 Where: Pg is the generator output power into the substitution antenna.
 If the fundamental frequency is below 1GHz, RF output power has been converted to EIRP.

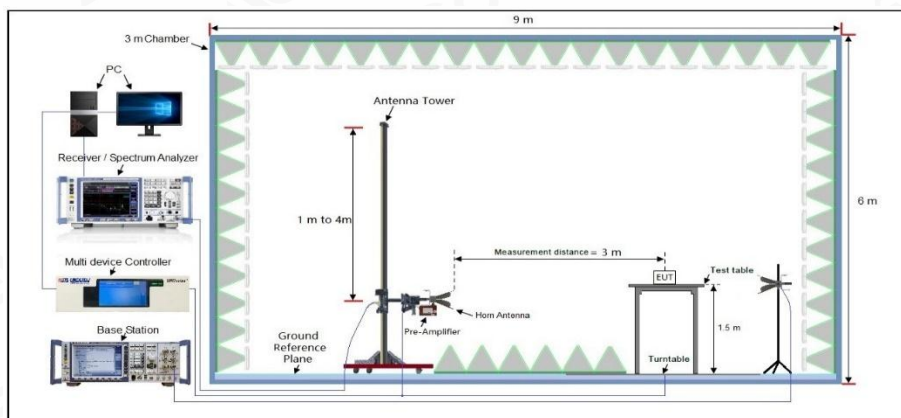
$$\text{EIRP(dBm)} = \text{ERP(dBm)} + 2.15$$

13.3. MEASUREMENT setup

Radiated Emissions 30MHz to 1GHz Test setup



Radiated Emissions Above 1GHz Test setup



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12.4 MEASUREMENT RESULT

The measurement Below 1GHz data as follows:

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.76	-66.12	15.52	-50.60	-13.00	-37.6	Horizontal
2	240.14	-62.86	16.75	-46.11	-13.00	-33.11	Horizontal
3	754.96	-59.37	19.35	-40.02	-13.00	-27.02	Horizontal
4	46.71	-64.76	10.44	-54.32	-13.00	-41.32	Vertical
5	433.34	-61.17	17.75	-43.42	-13.00	-30.42	Vertical
6	502.25	-59.23	18.66	-40.57	-13.00	-27.57	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.74	-62.98	9.78	-53.20	-13.00	-40.2	Horizontal
2	159.76	-63.97	13.75	-50.22	-13.00	-37.22	Horizontal
3	240.14	-61.51	16.75	-44.76	-13.00	-31.76	Horizontal
4	43.23	-63.75	10.23	-53.52	-13.00	-40.52	Vertical
5	433.34	-62.90	17.75	-45.15	-13.00	-32.15	Vertical
6	498.73	-58.69	18.02	-40.67	-13.00	-27.67	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.76	-63.74	13.75	-49.99	-13.00	-36.99	Horizontal
2	240.14	-62.58	16.75	-45.83	-13.00	-32.83	Horizontal
3	679.44	-59.39	19.01	-40.38	-13.00	-27.38	Horizontal
4	43.23	-63.60	10.23	-53.37	-13.00	-40.37	Vertical
5	433.34	-62.06	17.75	-44.31	-13.00	-31.31	Vertical
6	498.73	-58.85	18.02	-40.83	-13.00	-27.83	Vertical

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WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.759	-65.68	15.52	-50.16	-13.00	-37.16	Horizontal
2	240.144	-62.74	16.75	-45.99	-13.00	-32.99	Horizontal
3	754.963	-59.12	19.35	-39.77	-13.00	-26.77	Horizontal
4	46.708	-65.02	10.44	-54.58	-13.00	-41.58	Vertical
5	433.340	-61.15	17.75	-43.40	-13.00	-30.40	Vertical
6	502.247	-59.22	18.66	-40.56	-13.00	-27.56	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.735	-63.26	9.78	-53.48	-13.00	-40.48	Horizontal
2	159.759	-63.38	13.75	-49.63	-13.00	-36.63	Horizontal
3	240.144	-61.23	16.75	-44.48	-13.00	-31.48	Horizontal
4	43.233	-63.21	10.23	-52.98	-13.00	-39.98	Vertical
5	433.340	-62.97	17.75	-45.22	-13.00	-32.22	Vertical
6	498.730	-58.75	18.02	-40.73	-13.00	-27.73	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.759	-63.68	13.75	-49.93	-13.00	-36.93	Horizontal
2	240.144	-62.25	16.75	-45.50	-13.00	-32.5	Horizontal
3	679.435	-59.70	19.01	-40.69	-13.00	-27.69	Horizontal
4	43.233	-63.73	10.23	-53.50	-13.00	-40.5	Vertical
5	433.340	-61.72	17.75	-43.97	-13.00	-30.97	Vertical
6	498.730	-59.00	18.02	-40.98	-13.00	-27.98	Vertical

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WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	159.759	-65.46	15.52	-49.94	-13.00	-36.94	Horizontal
2	240.144	-62.67	16.75	-45.92	-13.00	-32.92	Horizontal
3	754.963	-59.32	19.35	-39.97	-13.00	-26.97	Horizontal
4	46.708	-64.72	10.44	-54.28	-13.00	-41.28	Vertical
5	433.340	-61.22	17.75	-43.47	-13.00	-30.47	Vertical
6	502.247	-58.97	18.66	-40.31	-13.00	-27.31	Vertical
RMC 12.2kbps_ Middle Channel							
1	31.735	-63.02	9.78	-53.24	-13.00	-40.24	Horizontal
2	159.759	-63.85	13.75	-50.10	-13.00	-37.10	Horizontal
3	240.144	-61.45	16.75	-44.70	-13.00	-31.70	Horizontal
4	43.233	-63.58	10.23	-53.35	-13.00	-40.35	Vertical
5	433.340	-63.01	17.75	-45.26	-13.00	-32.26	Vertical
6	498.730	-58.92	18.02	-40.90	-13.00	-27.9	Vertical
RMC 12.2kbps_ Highest Channel							
1	159.759	-63.58	13.75	-49.83	-13.00	-36.83	Horizontal
2	240.144	-62.22	16.75	-45.47	-13.00	-32.47	Horizontal
3	679.435	-59.79	19.01	-40.78	-13.00	-27.78	Horizontal
4	43.233	-63.52	10.23	-53.29	-13.00	-40.29	Vertical
5	433.340	-61.39	17.75	-43.64	-13.00	-30.64	Vertical
6	498.730	-59.45	18.02	-41.43	-13.00	-28.43	Vertical

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The measurement Above 1GHz data as follows:

WCDMA Band II							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3704.800	-83.00	31.09	-51.91	-13.00	-38.91	Horizontal
2	5557.200	-89.26	34.14	-55.12	-13.00	-42.12	Horizontal
3	3704.800	-81.06	33.13	-47.93	-13.00	-34.93	Vertical
4	5557.200	-85.60	32.66	-52.94	-13.00	-39.94	Vertical
RMC 12.2kbps_ Middle Channel							
1	3760.000	-79.55	31.09	-48.46	-13.00	-35.46	Horizontal
2	5640.000	-88.07	34.14	-53.93	-13.00	-40.93	Horizontal
3	3760.000	-79.76	33.13	-46.63	-13.00	-33.63	Vertical
4	5640.000	-84.42	32.66	-51.76	-13.00	-38.76	Vertical
RMC 12.2kbps_ Highest Channel							
1	3815.200	-82.70	31.09	-51.61	-13.00	-38.61	Horizontal
2	5722.800	-85.86	34.14	-51.72	-13.00	-38.72	Horizontal
3	3815.200	-82.53	33.13	-49.40	-13.00	-36.40	Vertical
4	5722.800	-83.29	32.66	-50.63	-13.00	-37.63	Vertical

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WCDMA Band IV							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	3424.800	-89.96	32.11	-57.85	-13.00	-44.85	Horizontal
2	5137.200	-87.76	33.21	-54.55	-13.00	-41.55	Horizontal
3	3424.800	-90.38	32.09	-58.29	-13.00	-45.29	Vertical
4	5137.200	-87.44	34.03	-53.41	-13.00	-40.41	Vertical
RMC 12.2kbps_ Middle Channel							
1	3464.800	-89.24	32.11	-57.13	-13.00	-44.13	Horizontal
2	5197.200	-86.74	33.21	-53.53	-13.00	-40.53	Horizontal
3	3464.800	-90.00	32.09	-57.91	-13.00	-44.91	Vertical
4	5197.200	-86.46	34.03	-52.43	-13.00	-39.43	Vertical
RMC 12.2kbps_ Highest Channel							
1	3505.200	-89.52	32.11	-57.41	-13.00	-44.41	Horizontal
2	5257.800	-86.44	33.21	-53.23	-13.00	-40.23	Horizontal
3	3505.200	-89.39	32.09	-57.30	-13.00	-44.30	Vertical
4	5257.800	-85.79	34.03	-51.76	-13.00	-38.76	Vertical

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WCDMA Band V							
No.	Frequency	SA Reading	Correction factor	EIRP Result	Limit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
RMC 12.2kbps_ Lowest Channel							
1	1652.800	-83.87	23.12	-60.75	-13.00	-47.75	Horizontal
2	2479.200	-85.98	28.47	-57.51	-13.00	-44.51	Horizontal
3	1652.800	-83.28	23.12	-60.16	-13.00	-47.16	Vertical
4	2479.200	-83.16	28.47	-54.69	-13.00	-41.69	Vertical
RMC 12.2kbps_ Middle Channel							
1	1672.800	-81.65	23.12	-58.53	-13.00	-45.53	Horizontal
2	2509.200	-83.67	28.47	-55.20	-13.00	-42.20	Horizontal
3	1672.800	-83.26	23.12	-60.14	-13.00	-47.14	Vertical
4	2509.200	-81.55	28.47	-53.08	-13.00	-40.08	Vertical
RMC 12.2kbps_ Highest Channel							
1	1693.200	-80.62	23.12	-57.50	-13.00	-44.5	Horizontal
2	2539.800	-82.08	28.47	-53.61	-13.00	-40.61	Horizontal
3	1693.200	-80.94	23.12	-57.82	-13.00	-44.82	Vertical
4	2539.800	-80.76	28.47	-52.29	-13.00	-39.29	Vertical

Note:

1. Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
2. Result = Reading + Correct Factor.
3. Margin = Result – Limit
4. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test. Subsequently, only the worst case emissions are reported.

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14. FREQUENCY STABILITY / VARIATION OF AMBIENT TEMPERATURE

14.1 PROVISIONS APPLICABLE

14.1.1 For Hand carried battery powered equipment

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. The frequency stability of the transmitter is measured by:

- a.) Temperature: The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) Primary Supply Voltage: The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

14.1.2 For equipment powered by primary supply voltage

- 1 The carrier frequency of the transmitter is measured at room temperature (20°C to provide a
- 2 reference).
- 3 The equipment is turned on in a “standby” condition for fifteen minutes before applying power to
- 4 the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 5 Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at
- 6 least one half-hour is provided to allow stabilization of the equipment at each temperature level.

14.2 MEASUREMENT METHOD

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a “call mode”. This is accomplished with the use of R&S CMW500 DIGITAL RADIO COMMUNICATION TESTER.

- 7 Measure the carrier frequency at room temperature.
- 8 Subject the EUT to overnight soak at -30°C. With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on channel 20175 for LTE band 4 measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
- 9 Repeat the above measurements at 10°C increments from -30°C to +50°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
- 10 Re-measure carrier frequency at room temperature with nominal voltage. Vary supply voltage from

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minimum voltage to maximum voltage, in 0.1Volt increments re-measuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.

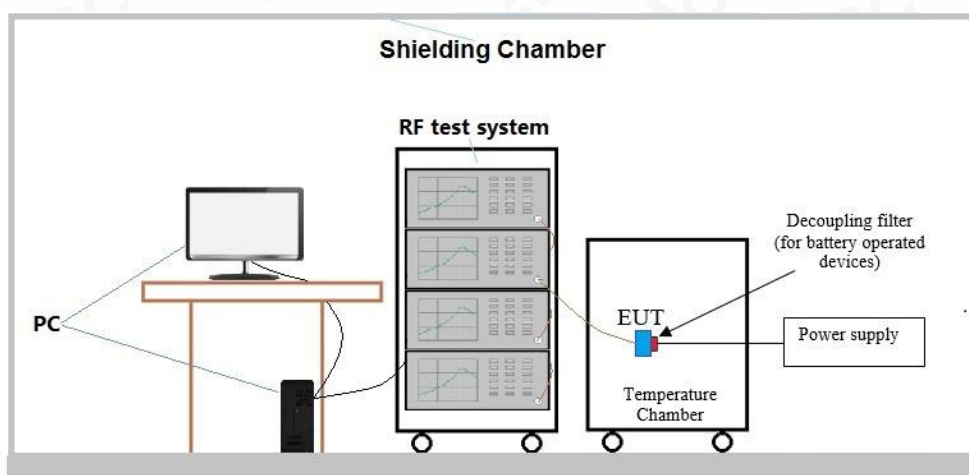
11 Subject the EUT to overnight soak at +50°C.

12 With the EUT, powered via nominal voltage, connected to the CMW500 and in a simulated call on the centre channel, measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.

13 Repeat the above measurements at 10°C increments from +50°C to -20°C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.

14 At all temperature levels hold the temperature to +/- 0.5°C during the measurement procedure.

14.3 MEASUREMENT SETUP



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13.4 MEASUREMENT RESULT

Frequency Error vs. Voltage:

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA850	UMTS	LCH	TN	VL	-7.02	-0.01	±2.5	PASS
			TN	VN	-13.79	-0.02	±2.5	PASS
			TN	VH	-9.84	-0.01	±2.5	PASS
		MCH	TN	VL	-13.41	-0.02	±2.5	PASS
			TN	VN	-3.04	0.00	±2.5	PASS
			TN	VH	-17.53	-0.02	±2.5	PASS
		HCH	TN	VL	-7.89	-0.01	±2.5	PASS
			TN	VN	-9.99	-0.01	±2.5	PASS
			TN	VH	-3.98	0.00	±2.5	PASS

Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Verdict
WCDMA1700	UMTS	LCH	TN	VL	-14.74	-0.01	PASS
			TN	VN	-22.58	-0.01	PASS
			TN	VH	-16.77	-0.01	PASS
		MCH	TN	VL	-19.97	-0.01	PASS
			TN	VN	-20.61	-0.01	PASS
			TN	VH	-19.09	-0.01	PASS
		HCH	TN	VL	-22.61	-0.01	PASS
			TN	VN	-13.20	-0.01	PASS
			TN	VH	-9.70	-0.01	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Test Band	Test Mode	Test Channel	Test Temp.	Test Volt.(V)	Freq.Error (Hz)	Freq.vs.rated (ppm)	Verdict
WCDMA1900	UMTS	LCH	TN	VL	-23.15	-0.01	PASS
			TN	VN	-15.15	-0.01	PASS
			TN	VH	-19.20	-0.01	PASS
		MCH	TN	VL	-14.69	-0.01	PASS
			TN	VN	-20.36	-0.01	PASS
			TN	VH	-14.79	-0.01	PASS
		HCH	TN	VL	-14.66	-0.01	PASS
			TN	VN	-16.33	-0.01	PASS
			TN	VH	-15.66	-0.01	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Error vs. Temperature:

Test Band	Test Mode	Test Channel	Test Volt.	Test Temp	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA850	TM1	LCH	VN	-30	-7.34	-0.01	±2.5	PASS
			VN	-20	-10.57	-0.01	±2.5	PASS
			VN	-10	-10.25	-0.01	±2.5	PASS
			VN	0	-7.95	-0.01	±2.5	PASS
			VN	10	-8.42	-0.01	±2.5	PASS
			VN	20	-6.45	-0.01	±2.5	PASS
			VN	30	-11.25	-0.01	±2.5	PASS
			VN	40	-11.58	-0.01	±2.5	PASS
			VN	50	-10.71	-0.01	±2.5	PASS
WCDMA850	TM1	MCH	VN	-30	-11.09	-0.01	±2.5	PASS
			VN	-20	-7.14	-0.01	±2.5	PASS
			VN	-10	-8.64	-0.01	±2.5	PASS
			VN	0	-12.31	-0.01	±2.5	PASS
			VN	10	-11.08	-0.01	±2.5	PASS
			VN	20	-9.34	-0.01	±2.5	PASS
			VN	30	-7.87	-0.01	±2.5	PASS
			VN	40	-10.12	-0.01	±2.5	PASS
			VN	50	-12.02	-0.01	±2.5	PASS
WCDMA850	TM1	HCH	VN	-30	-8.79	-0.01	±2.5	PASS
			VN	-20	-6.90	-0.01	±2.5	PASS
			VN	-10	-9.48	-0.01	±2.5	PASS
			VN	0	-8.96	-0.01	±2.5	PASS
			VN	10	-4.67	-0.01	±2.5	PASS
			VN	20	-7.49	-0.01	±2.5	PASS
			VN	30	-12.77	-0.02	±2.5	PASS
			VN	40	-9.81	-0.01	±2.5	PASS
			VN	50	-12.31	-0.01	±2.5	PASS

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 1700	TM1	LCH	VN	-30	-14.48	-0.01	±2.5	PASS
			VN	-20	-21.29	-0.01	±2.5	PASS
			VN	-10	-21.29	-0.01	±2.5	PASS
			VN	0	-13.87	-0.01	±2.5	PASS
			VN	10	-21.68	-0.01	±2.5	PASS
			VN	20	-16.94	-0.01	±2.5	PASS
			VN	30	-16.59	-0.01	±2.5	PASS
			VN	40	-11.54	-0.01	±2.5	PASS
			VN	50	-19.52	-0.01	±2.5	PASS
WCDMA 1700	TM1	MCH	VN	-30	-22.58	-0.01	±2.5	PASS
			VN	-20	-18.72	-0.01	±2.5	PASS
			VN	-10	-24.95	-0.01	±2.5	PASS
			VN	0	-17.79	-0.01	±2.5	PASS
			VN	10	-17.15	-0.01	±2.5	PASS
			VN	20	-14.97	-0.01	±2.5	PASS
			VN	30	-19.74	-0.01	±2.5	PASS
			VN	40	-18.01	-0.01	±2.5	PASS
			VN	50	-13.20	-0.01	±2.5	PASS
WCDMA 1700	TM1	HCH	VN	-30	-19.79	-0.01	±2.5	PASS
			VN	-20	-9.74	-0.01	±2.5	PASS
			VN	-10	-16.82	-0.01	±2.5	PASS
			VN	0	-9.45	-0.01	±2.5	PASS
			VN	10	-21.22	-0.01	±2.5	PASS
			VN	20	-16.27	-0.01	±2.5	PASS
			VN	30	-16.36	-0.01	±2.5	PASS
			VN	40	-12.92	-0.01	±2.5	PASS
			VN	50	-15.76	-0.01	±2.5	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Test Band	Test Mode	Test Channel	Test Volt.	Test Temp.	Freq.Error (Hz)	Freq.vs.rated (ppm)	Limit (ppm)	Verdict
WCDMA 1900	TM1	LCH	VN	-30	-16.17	-0.01	±2.5	PASS
			VN	-20	-14.21	-0.01	±2.5	PASS
			VN	-10	-14.92	-0.01	±2.5	PASS
			VN	0	-14.45	-0.01	±2.5	PASS
			VN	10	-22.80	-0.01	±2.5	PASS
			VN	20	-14.68	-0.01	±2.5	PASS
			VN	30	-20.69	-0.01	±2.5	PASS
			VN	40	-15.82	-0.01	±2.5	PASS
			VN	50	-14.66	-0.01	±2.5	PASS
WCDMA 1900	TM1	MCH	VN	-30	-15.15	-0.01	±2.5	PASS
			VN	-20	-12.89	-0.01	±2.5	PASS
			VN	-10	-16.08	-0.01	±2.5	PASS
			VN	0	-18.04	-0.01	±2.5	PASS
			VN	10	-18.08	-0.01	±2.5	PASS
			VN	20	-11.73	-0.01	±2.5	PASS
			VN	30	-14.69	-0.01	±2.5	PASS
			VN	40	-15.87	-0.01	±2.5	PASS
			VN	50	-15.38	-0.01	±2.5	PASS
WCDMA 1900	TM1	HCH	VN	-30	-15.53	-0.01	±2.5	PASS
			VN	-20	-7.48	0.00	±2.5	PASS
			VN	-10	-19.73	-0.01	±2.5	PASS
			VN	0	-17.15	-0.01	±2.5	PASS
			VN	10	-20.83	-0.01	±2.5	PASS
			VN	20	-27.10	-0.01	±2.5	PASS
			VN	30	-19.59	-0.01	±2.5	PASS
			VN	40	-19.59	-0.01	±2.5	PASS
			VN	50	-21.70	-0.01	±2.5	PASS

Note: Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Refer to the Report No.: AGC11034211201AP01

APPENDIX B: PHOTOGRAPHS OF EUT

Refer to the Report No.: AGC11034211201AP02

----END OF REPORT----

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