



Report No.: SEWM2212000309RG01

Rev.: 02

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Appendix B.2

WCDMA Band V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	23.78	20.33	38.45	PASS
Band5	4182	23.86	20.41	38.45	PASS
Band5	4233	23.49	20.04	38.45	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	2.88	13	PASS
Band5	4182	3.28	13	PASS
Band5	4233	3.28	13	PASS

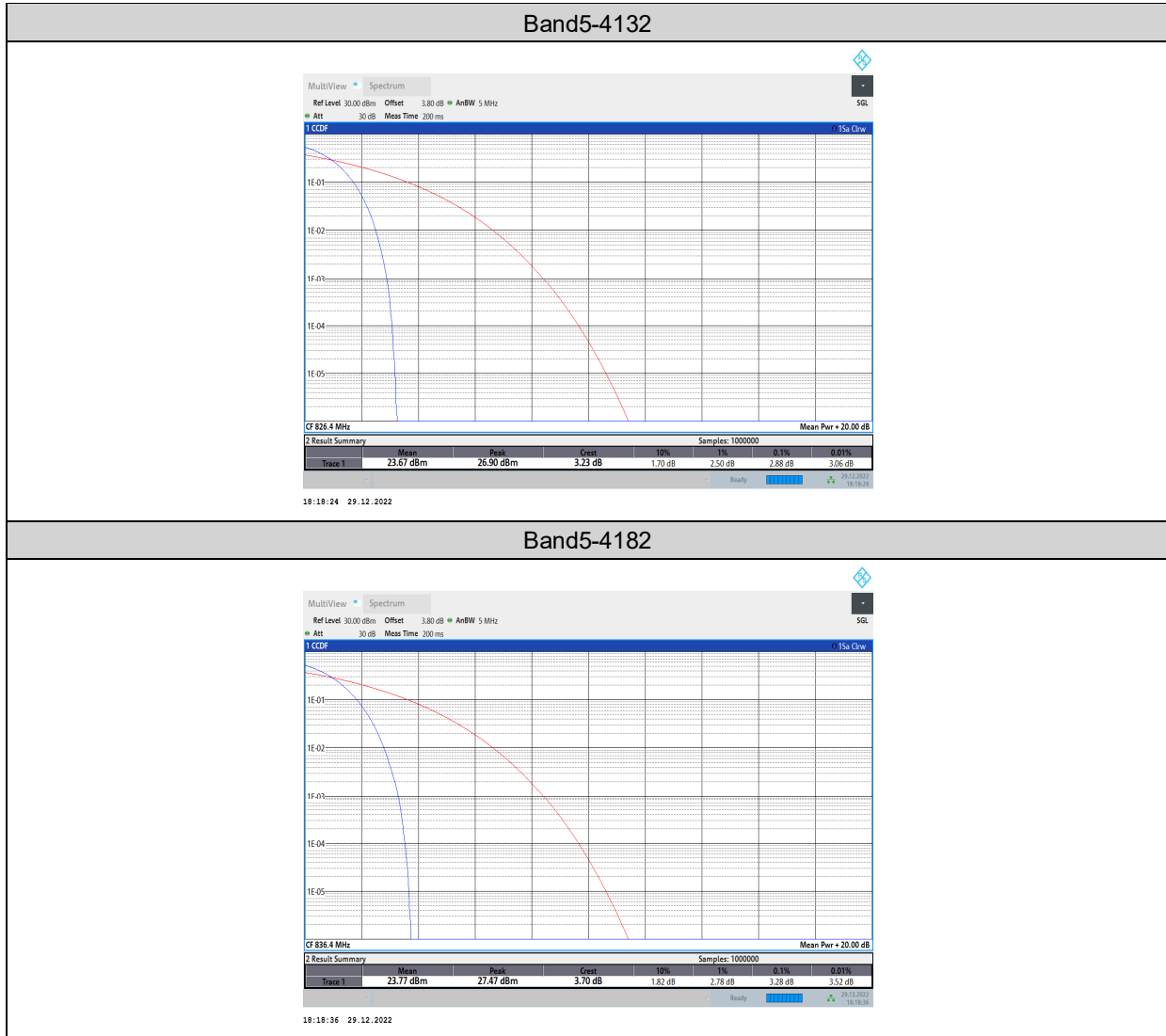


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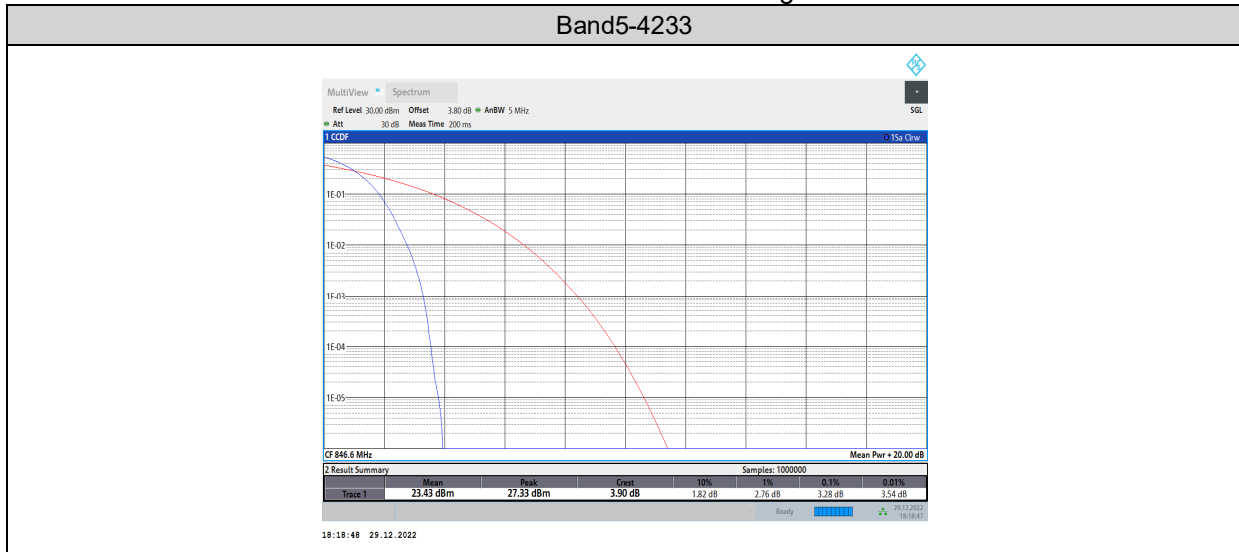
Test Graphs



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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
Band5	4182	PASS	PASS



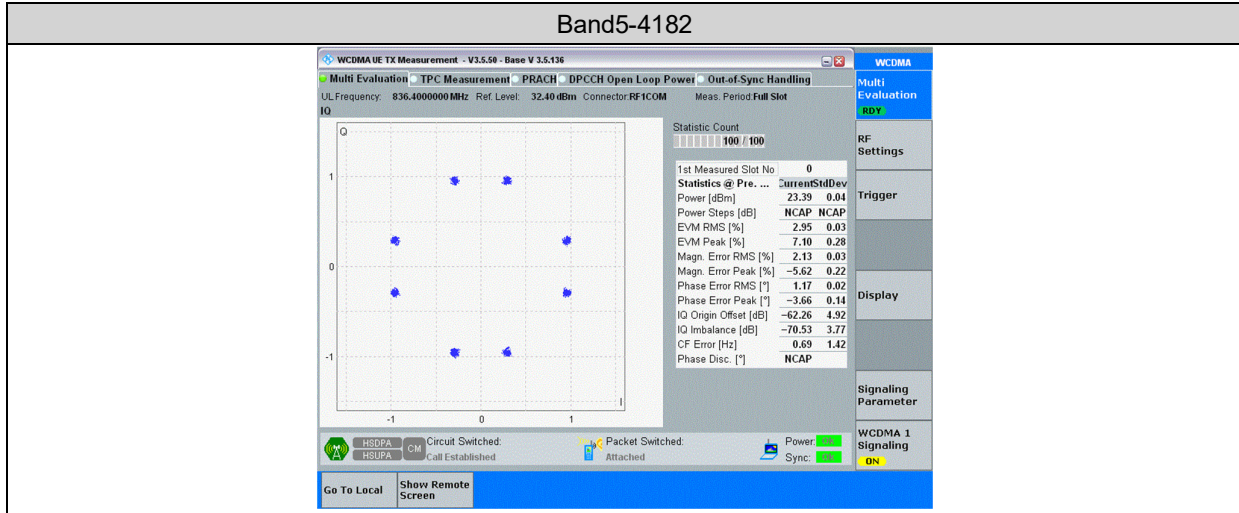
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Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band5	4132	4.134	4.71	---	PASS
Band5	4182	4.141	4.72	---	PASS
Band5	4233	4.149	4.73	---	PASS



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Test Graphs

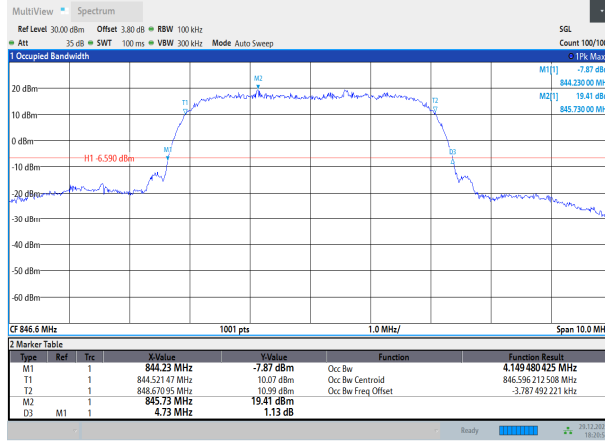


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Band5-4233



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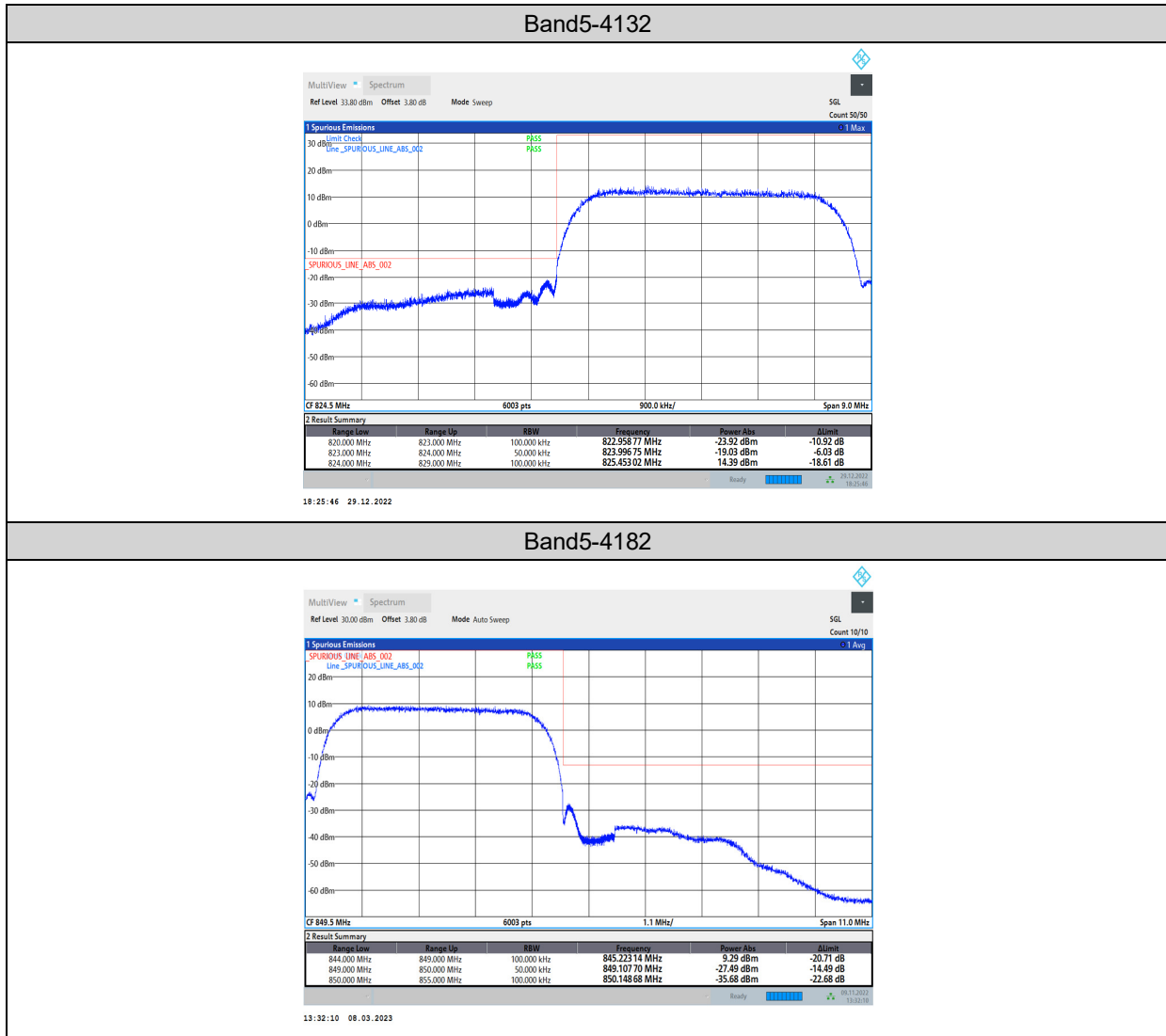
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Band Edge

Test Graphs



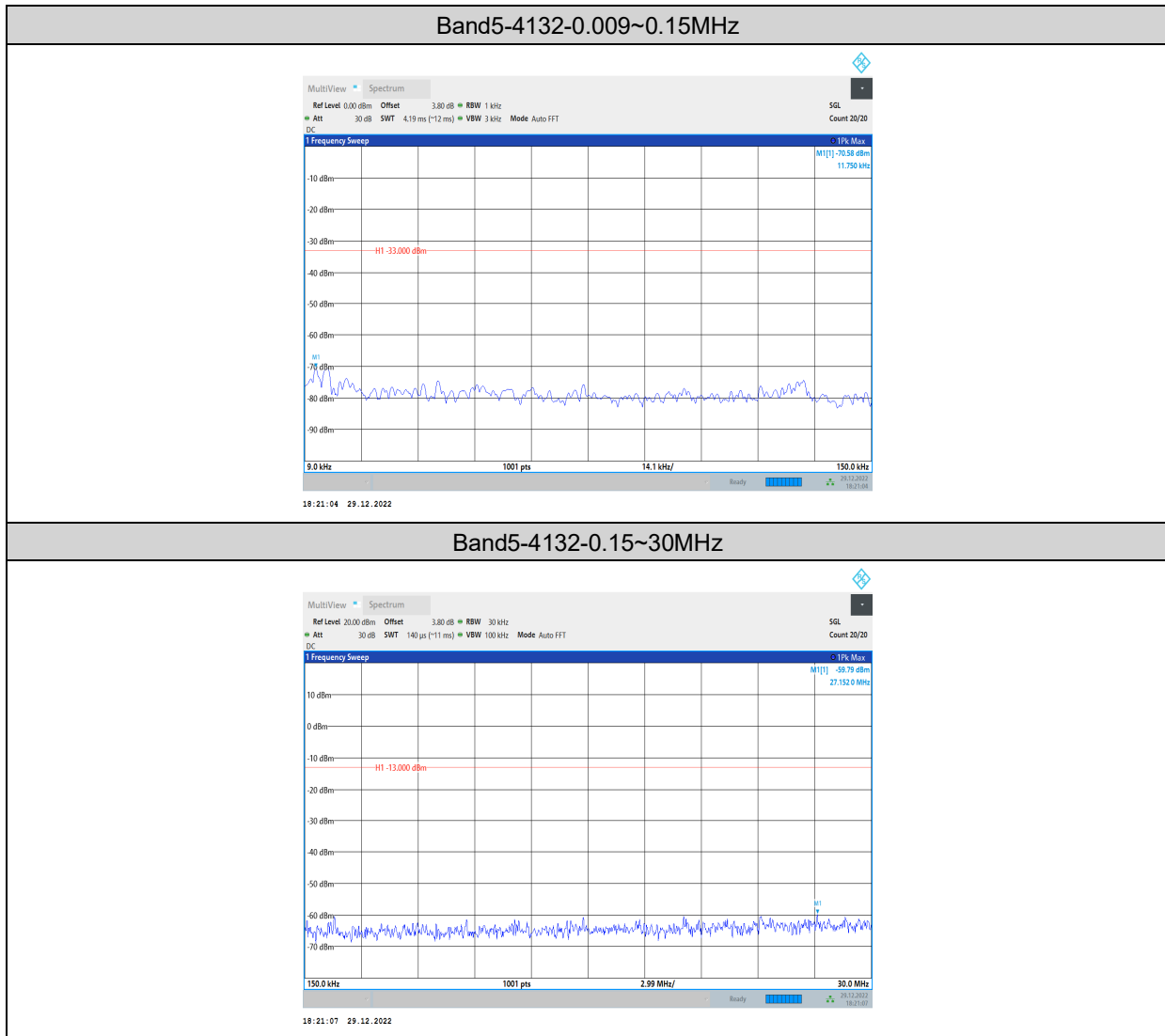
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Conducted Spurious Emission

Test Graphs

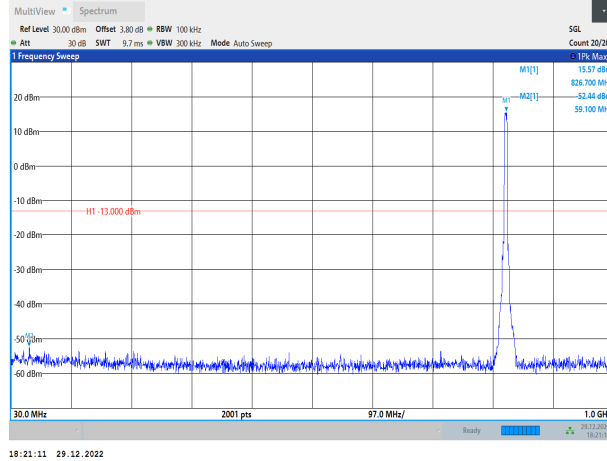


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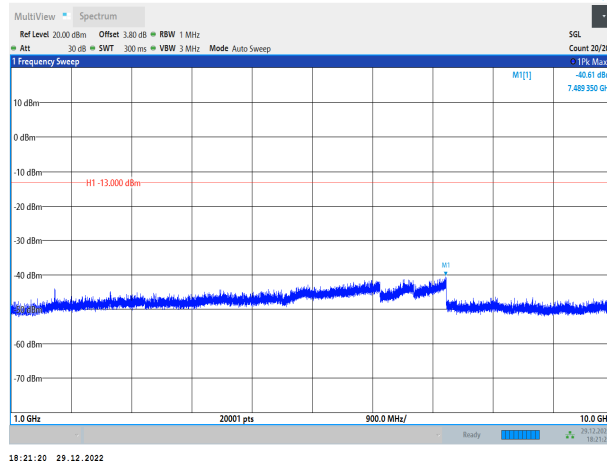
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Band5-4132-30~1000MHz



Band5-4132-1000~10000MHz

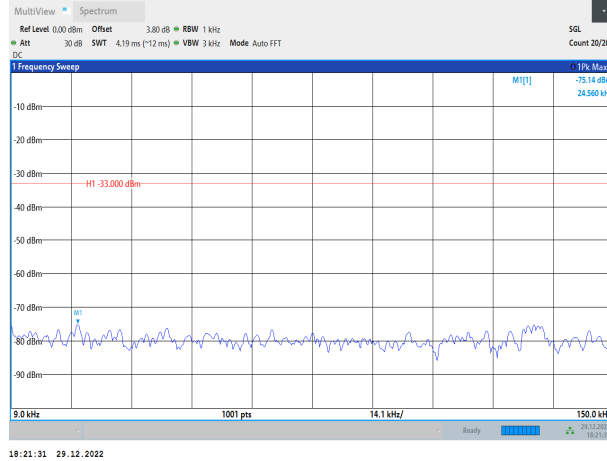


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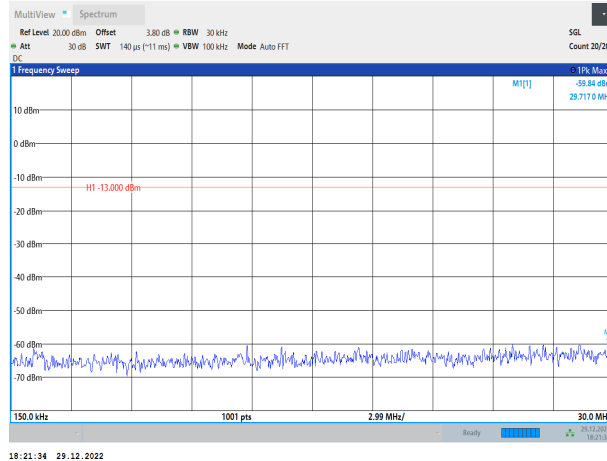
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Band5-4182-0.009~0.15MHz



Band5-4182-0.15~30MHz

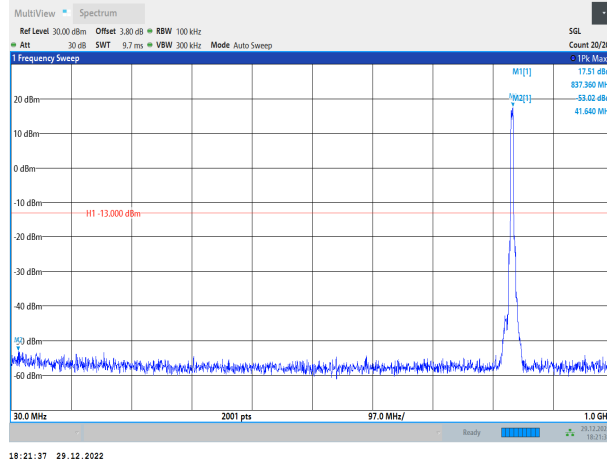


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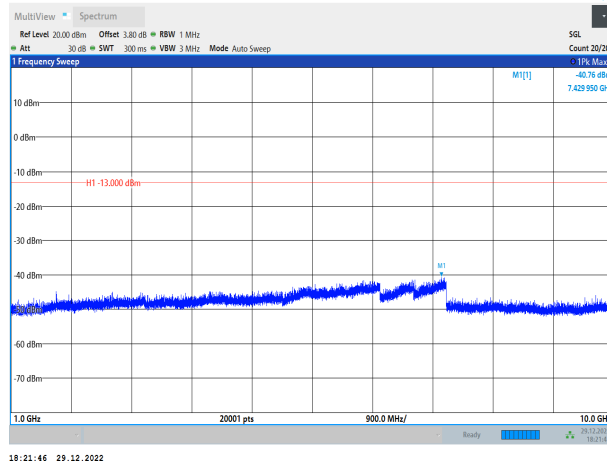
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Band5-4182-30~1000MHz



Band5-4182-1000~10000MHz

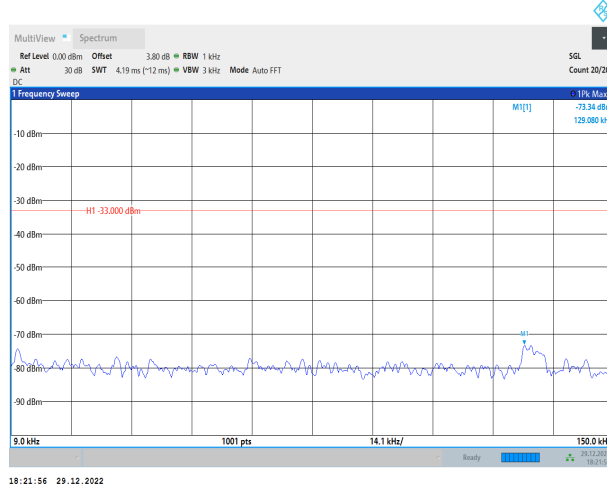


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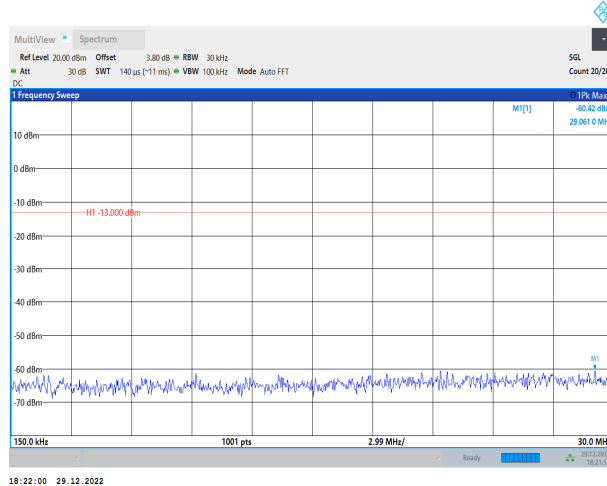
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Band5-4233-0.009~0.15MHz



Band5-4233-0.15~30MHz

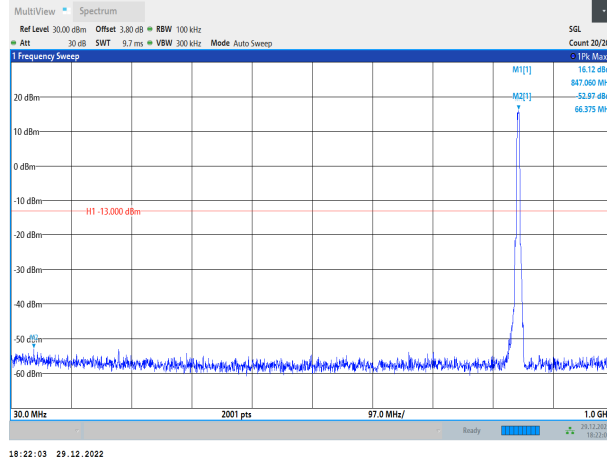


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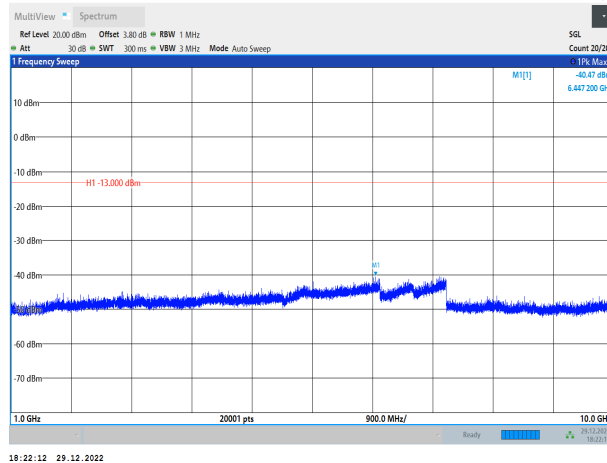
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Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



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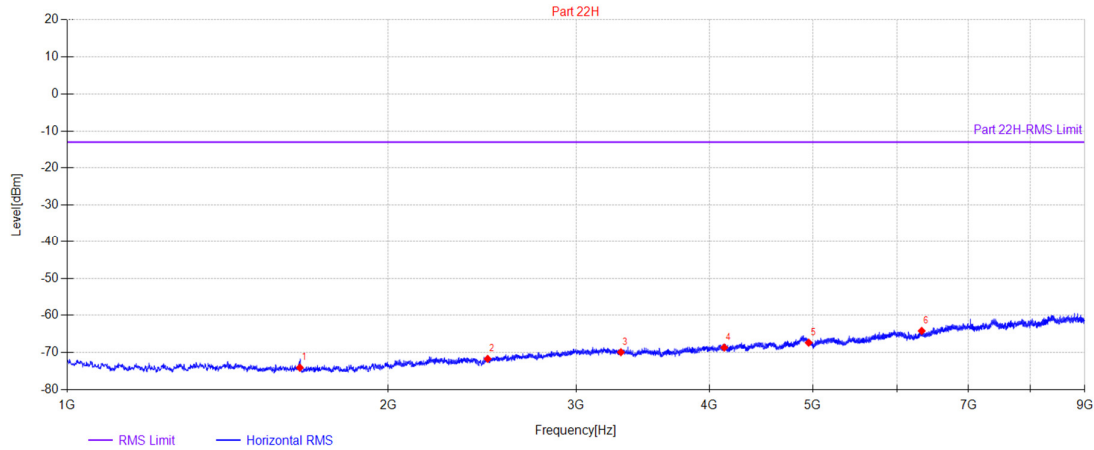
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Field Strength of Spurious Radiation

Test Band = WCDMA Band V_ TM1

Test Channel = Low



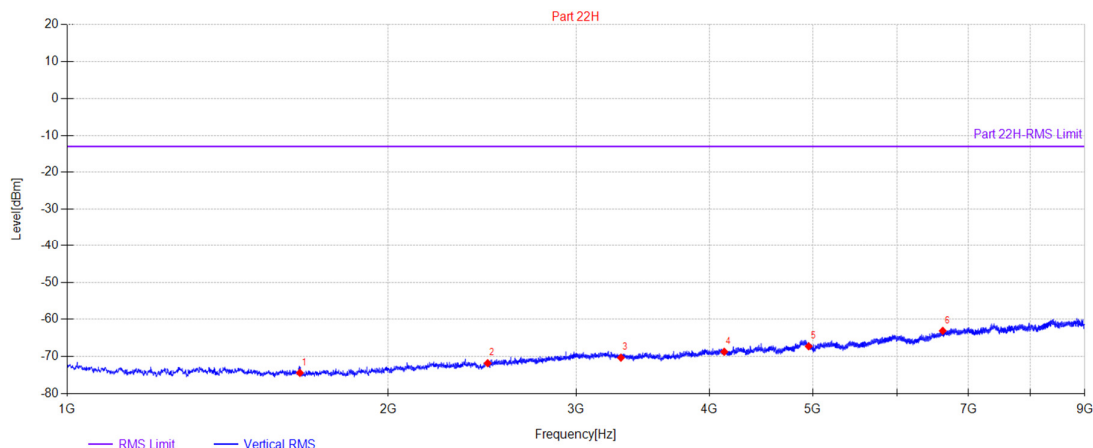
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8000	44.03	-48.22	25.37	-74.07	-13.00	61.07	245	311	Horizontal
2	2479.2000	43.16	-47.31	27.70	-71.70	-13.00	58.70	169	80	Horizontal
3	3305.6000	42.48	-46.67	29.55	-69.90	-13.00	56.90	185	161	Horizontal
4	4132.0000	41.53	-45.92	31.00	-68.65	-13.00	55.65	142	243	Horizontal
5	4958.4000	40.87	-45.72	32.76	-67.34	-13.00	54.34	172	189	Horizontal
6	6328.5714	41.27	-44.65	34.47	-64.17	-13.00	51.17	133	189	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8000	43.70	-48.22	25.37	-74.40	-13.00	61.40	245	91	Vertical
2	2479.2000	43.07	-47.31	27.70	-71.79	-13.00	58.79	165	50	Vertical
3	3305.6000	42.07	-46.67	29.55	-70.31	-13.00	57.31	185	132	Vertical
4	4132.0000	41.48	-45.92	31.00	-68.70	-13.00	55.70	195	158	Vertical
5	4958.4000	40.97	-45.72	32.76	-67.24	-13.00	54.24	142	266	Vertical
6	6622.8571	41.10	-44.39	35.49	-63.07	-13.00	50.07	173	292	Vertical



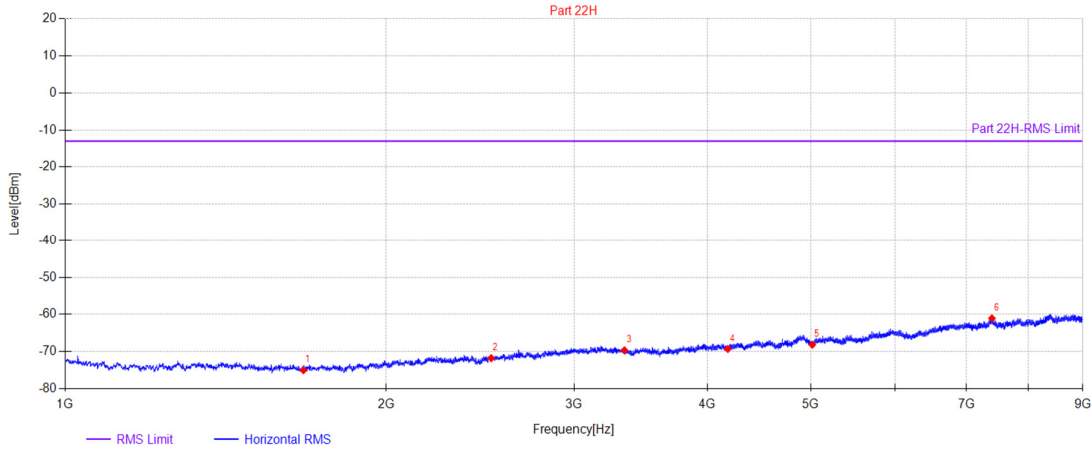
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Test Band = WCDMA Band V_ TM1

Test Channel = Mid



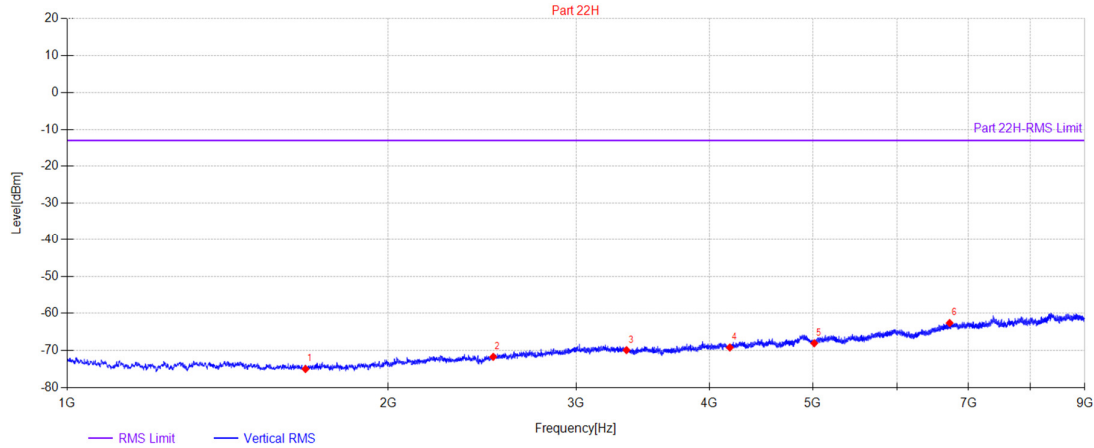
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	43.05	-48.19	25.38	-75.02	-13.00	62.02	244	41	Horizontal
2	2509.2000	42.90	-47.24	27.80	-71.79	-13.00	58.79	165	133	Horizontal
3	3345.6000	42.71	-46.62	29.50	-69.67	-13.00	56.67	129	4	Horizontal
4	4182.0000	40.85	-45.95	31.07	-69.29	-13.00	56.29	148	346	Horizontal
5	5018.4000	39.95	-45.73	32.89	-68.15	-13.00	55.15	175	41	Horizontal
6	7397.1429	40.97	-43.27	36.49	-61.06	-13.00	48.06	135	308	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8000	43.10	-48.19	25.38	-74.97	-13.00	61.97	148	64	Vertical
2	2509.2000	43.00	-47.24	27.80	-71.69	-13.00	58.69	159	251	Vertical
3	3345.6000	42.49	-46.62	29.50	-69.89	-13.00	56.89	165	35	Vertical
4	4182.0000	40.97	-45.95	31.07	-69.17	-13.00	56.17	174	136	Vertical
5	5018.4000	40.07	-45.73	32.89	-68.03	-13.00	55.03	125	2	Vertical
6	6722.2857	41.07	-44.07	35.68	-62.58	-13.00	49.58	146	35	Vertical

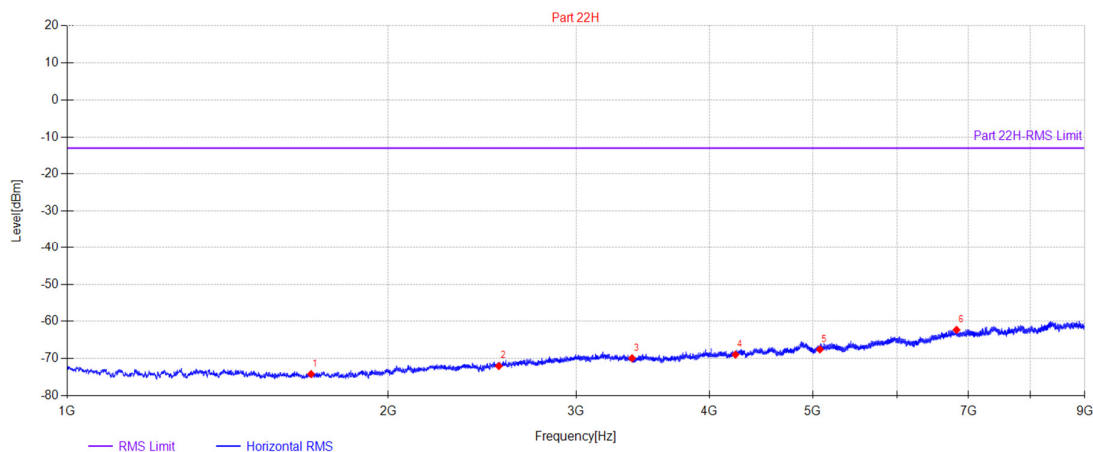


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Test Band = WCDMA Band V_ TM1
 Test Channel = High



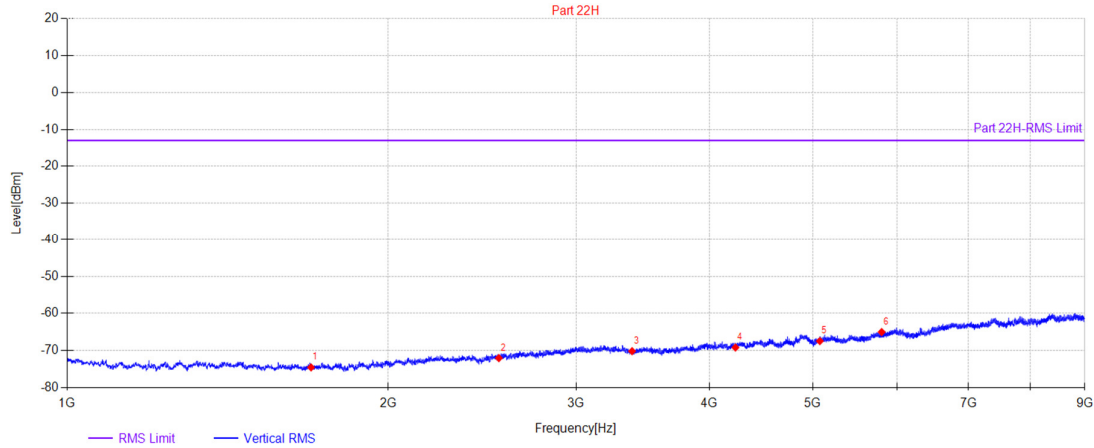
Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2000	43.86	-48.17	25.39	-74.18	-13.00	61.18	274	228	Horizontal
2	2539.8000	42.47	-47.13	27.90	-72.02	-13.00	59.02	154	255	Horizontal
3	3386.4000	42.45	-46.56	29.45	-69.92	-13.00	56.92	198	336	Horizontal
4	4233.0000	41.05	-45.90	31.17	-68.94	-13.00	55.94	126	354	Horizontal
5	5079.6000	40.26	-45.47	32.92	-67.54	-13.00	54.54	251	94	Horizontal
6	6822.8571	41.24	-44.13	35.87	-62.28	-13.00	49.28	142	54	Horizontal



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Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2000	43.50	-48.17	25.39	-74.54	-13.00	61.54	265	209	Vertical
2	2539.8000	42.46	-47.13	27.90	-72.03	-13.00	59.03	142	89	Vertical
3	3386.4000	42.20	-46.56	29.45	-70.17	-13.00	57.17	135	0	Vertical
4	4233.0000	40.81	-45.90	31.17	-69.18	-13.00	56.18	188	12	Vertical
5	5079.6000	40.35	-45.47	32.92	-67.45	-13.00	54.45	192	22	Vertical
6	5804.5714	41.16	-44.67	33.76	-65.02	-13.00	52.02	174	305	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	VL	NT	-0.43	-0.000514	±2.5	PASS
Band5	4182	VN	NT	-0.55	-0.000658	±2.5	PASS
Band5	4182	VH	NT	-0.25	-0.000299	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band5	4182	NV	-30	-0.16	-0.000191	±2.5	PASS
Band5	4182	NV	-20	-0.45	-0.000538	±2.5	PASS
Band5	4182	NV	-10	-0.39	-0.000466	±2.5	PASS
Band5	4182	NV	0	-0.03	-0.000036	±2.5	PASS
Band5	4182	NV	10	-0.85	-0.001016	±2.5	PASS
Band5	4182	NV	20	-0.53	-0.000634	±2.5	PASS
Band5	4182	NV	30	-0.63	-0.000753	±2.5	PASS
Band5	4182	NV	40	-0.23	-0.000275	±2.5	PASS
Band5	4182	NV	50	0.00	0.000000	±2.5	PASS

---End of Attachment---



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