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Appendix B.1

WCDMA Band II&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.60	26.27	33.00	PASS
Band II	9400	23.68	26.35	33.00	PASS
Band II	9538	23.57	26.24	33.00	PASS

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.44	21.73	38.45	PASS
Band V	4182	23.47	21.76	38.45	PASS
Band V	4233	23.20	21.49	38.45	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.2	13	PASS
Band II	9400	3.28	13	PASS
Band II	9538	3.3	13	PASS
Band V	4132	3.26	13	PASS
Band V	4182	3.26	13	PASS
Band V	4233	3.24	13	PASS



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Test Graphs



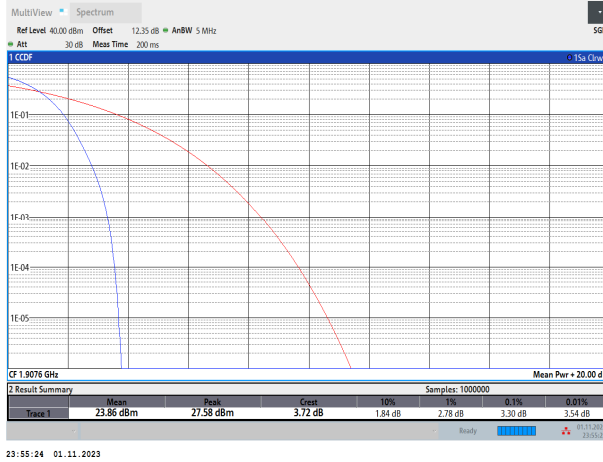
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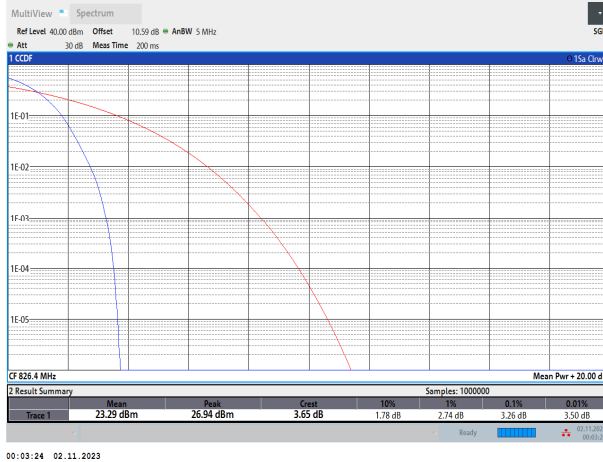
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Band II-9538



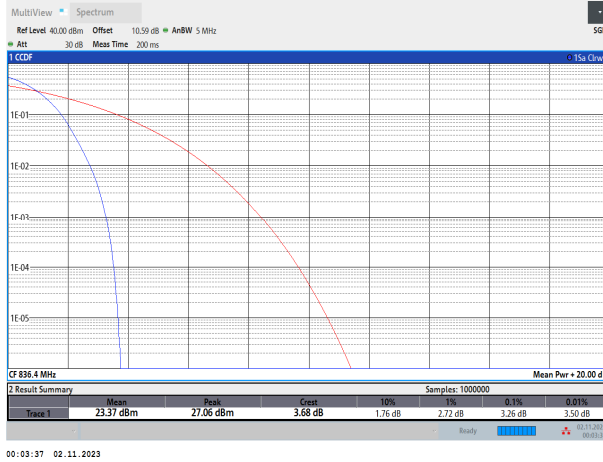
Band V-4132



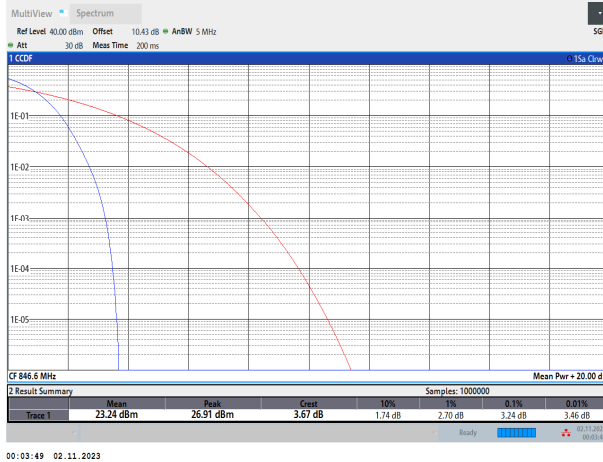
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Band V-4182



Band V-4233



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band II	9262	4.148	4.67	---	PASS
Band II	9400	4.161	4.74	---	PASS
Band II	9538	4.17	4.74	---	PASS
Band V	4132	4.171	4.68	---	PASS
Band V	4182	4.153	4.74	---	PASS
Band V	4233	4.142	4.73	---	PASS



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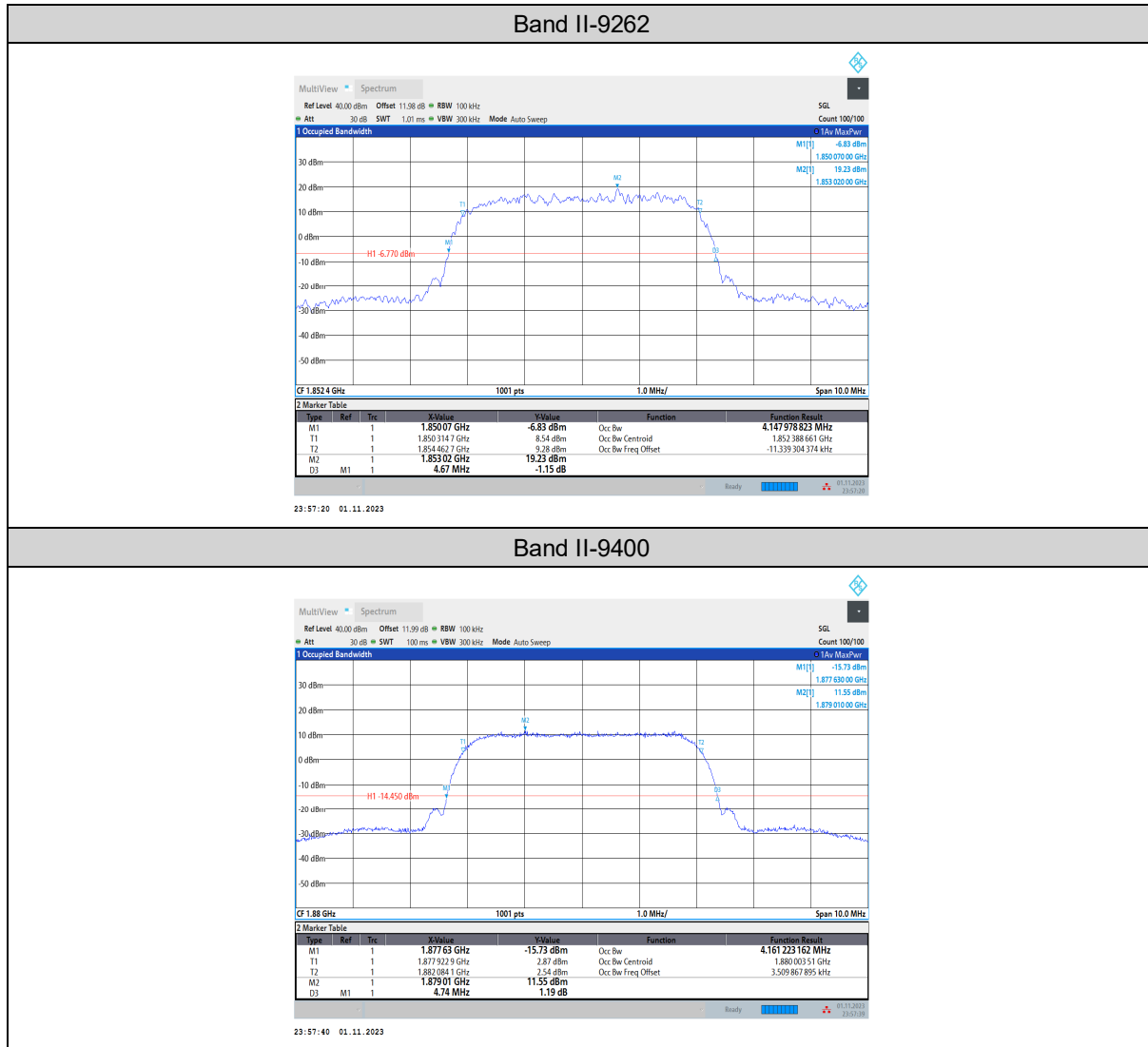
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Test Graphs



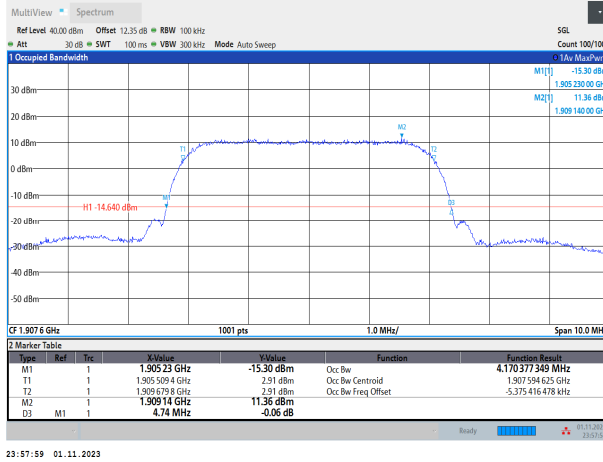
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Band II-9538



Band V-4132



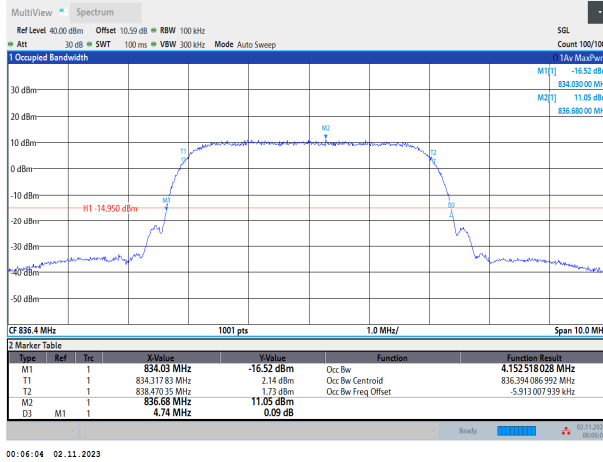
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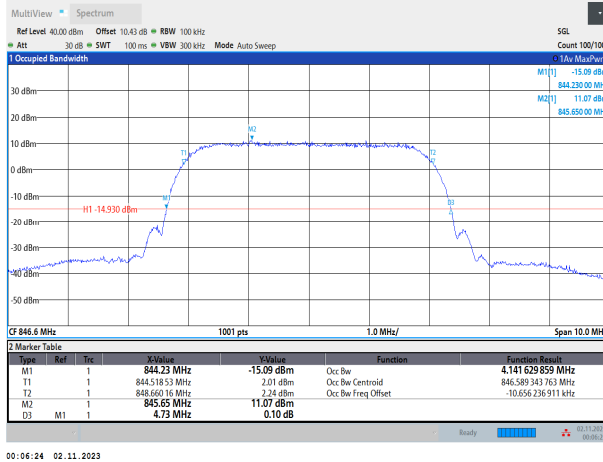
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Band V-4182



Band V-4233



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Band Edge

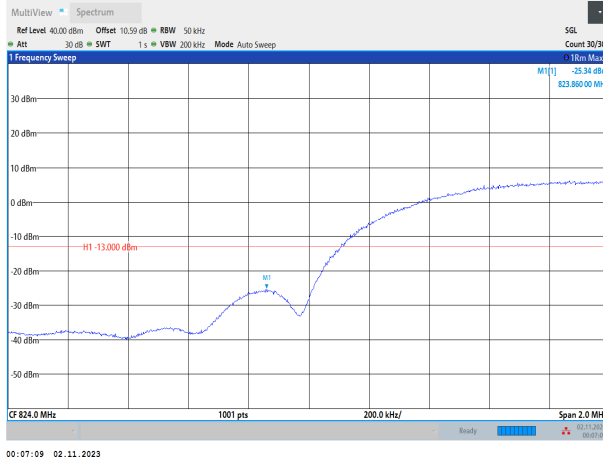
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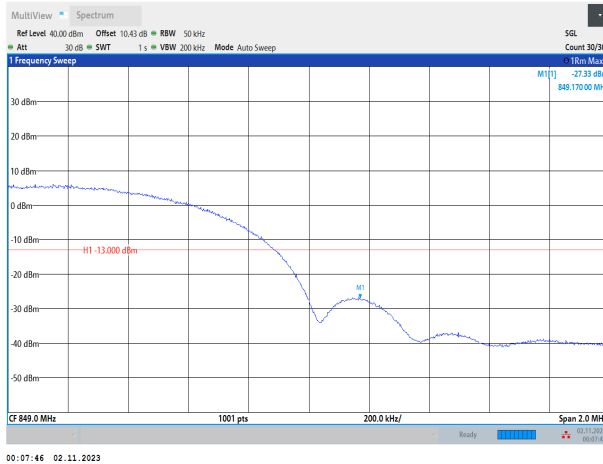
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Band V-4132



Band V-4233



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Conducted Spurious Emission

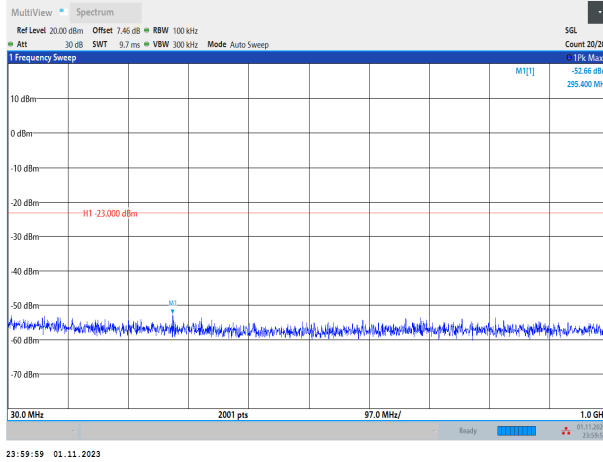
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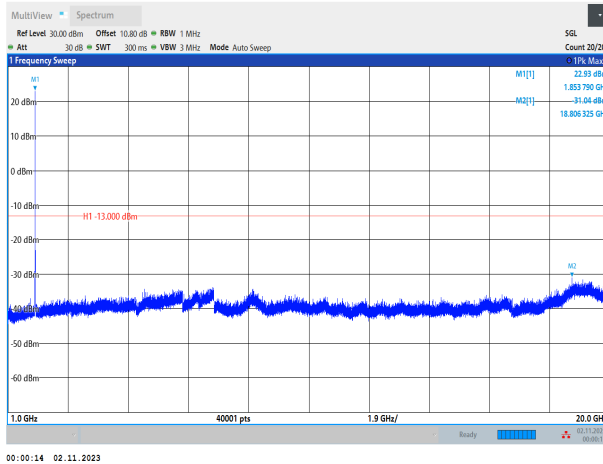
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Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz

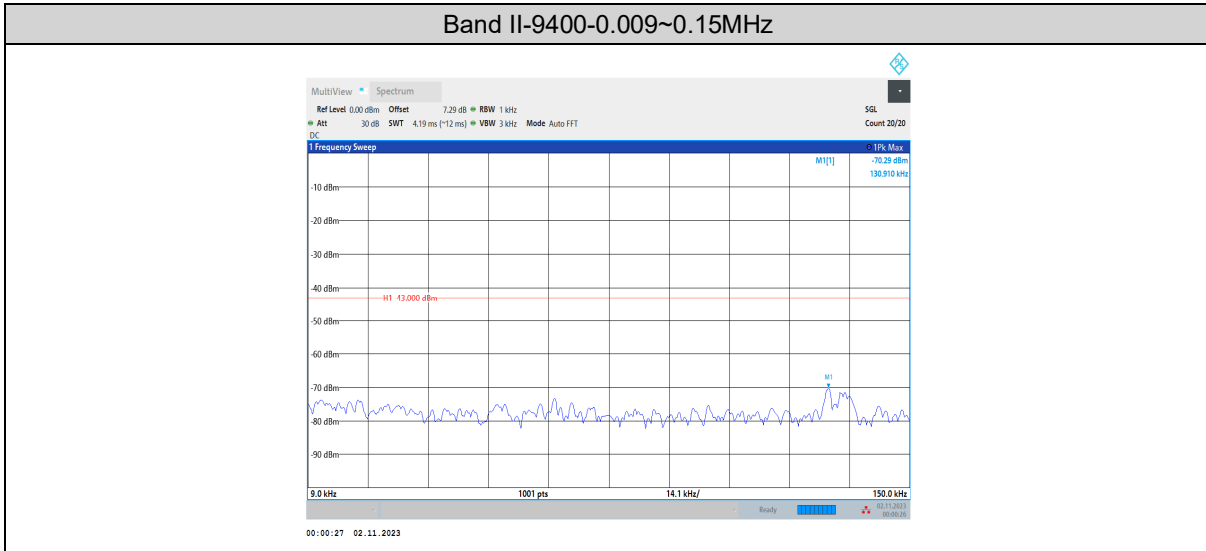


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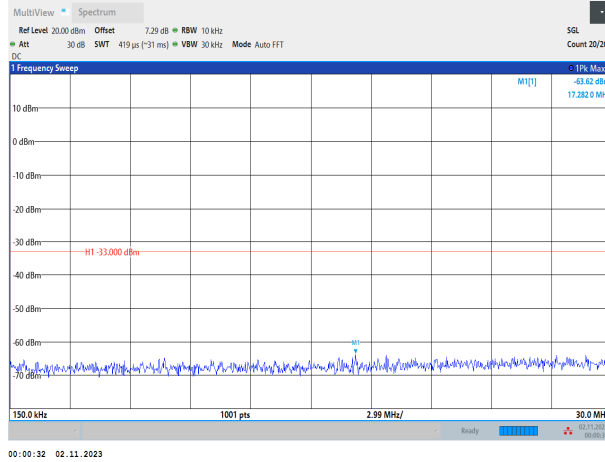
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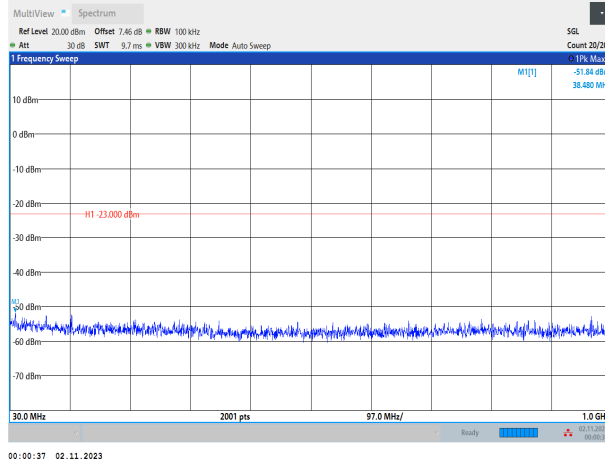


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Band II-9400-0.15~30MHz



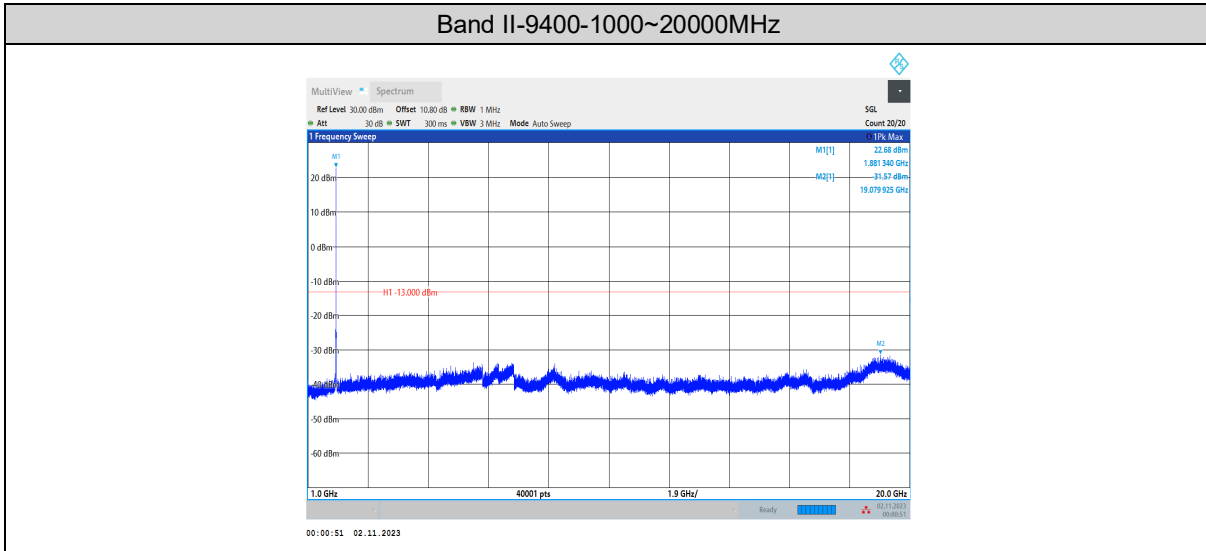
Band II-9400-30~1000MHz



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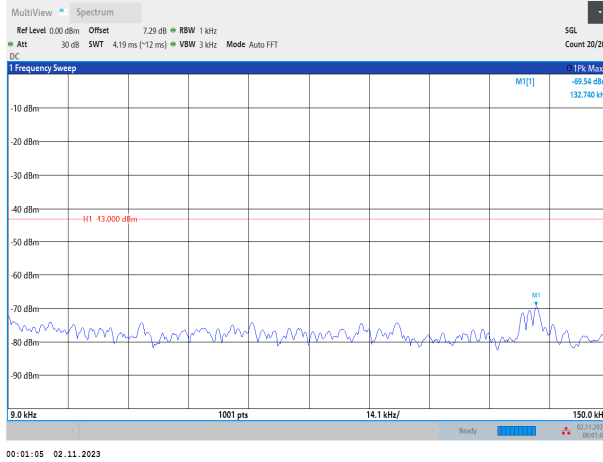
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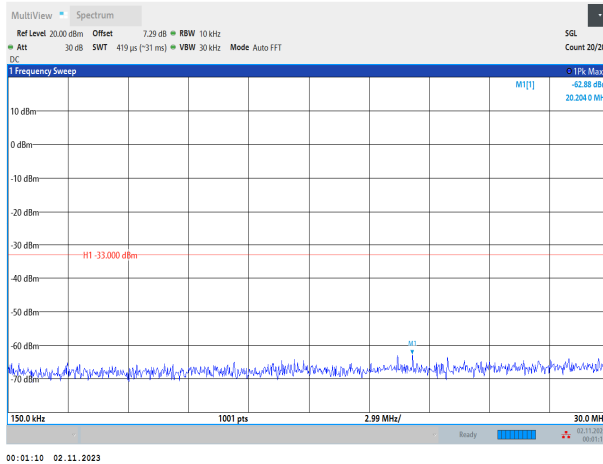


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Band II-9538-0.009~0.15MHz



Band II-9538-0.15~30MHz



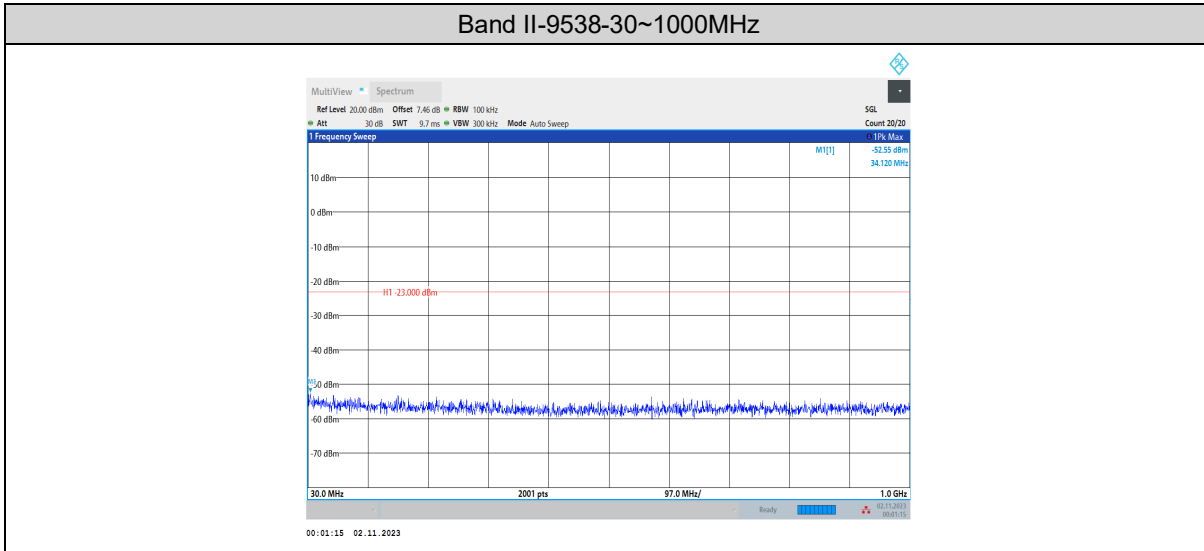
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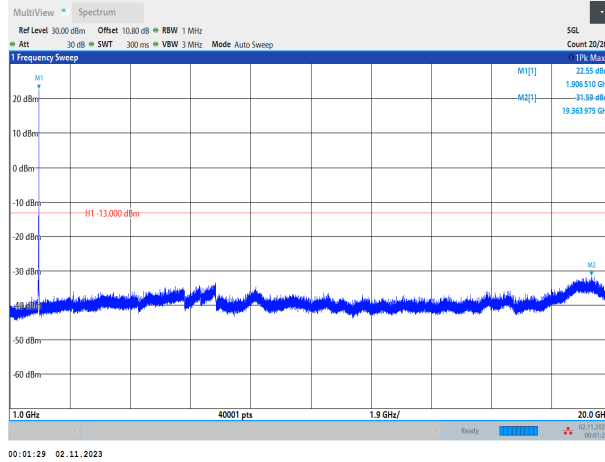


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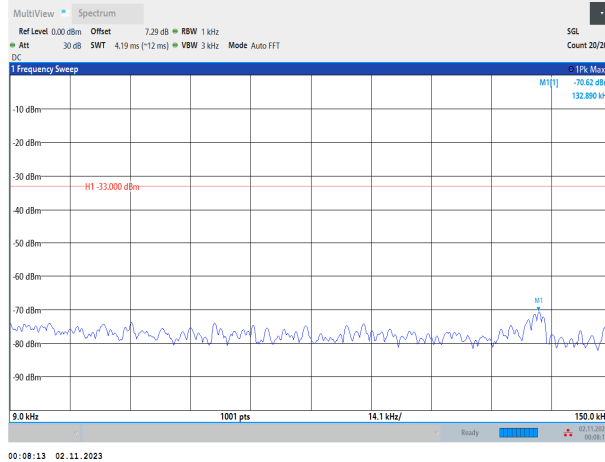
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Band II-9538-1000~20000MHz



Band V-4132-0.009~0.15MHz



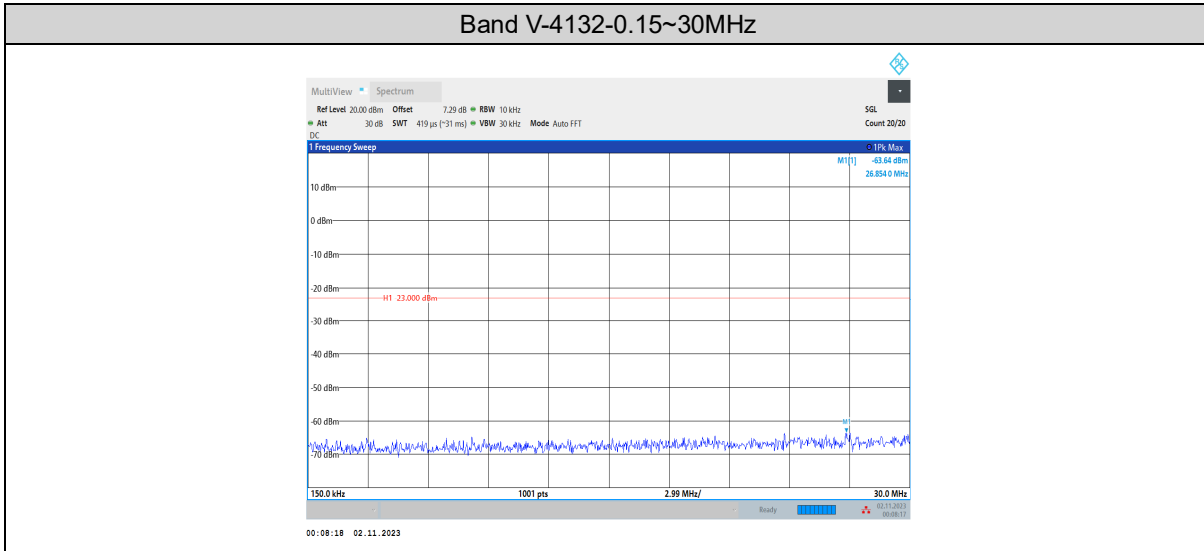
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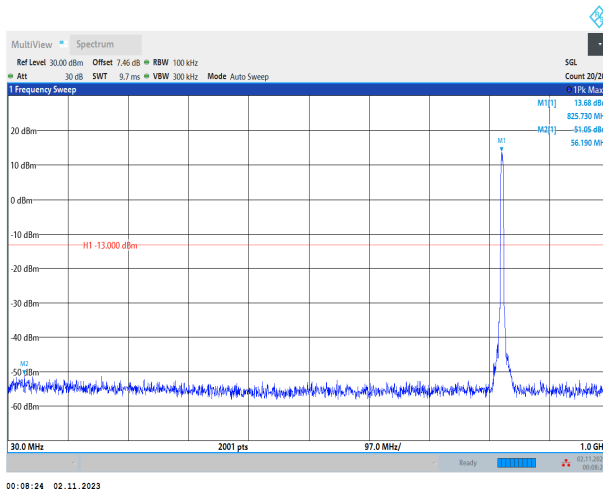


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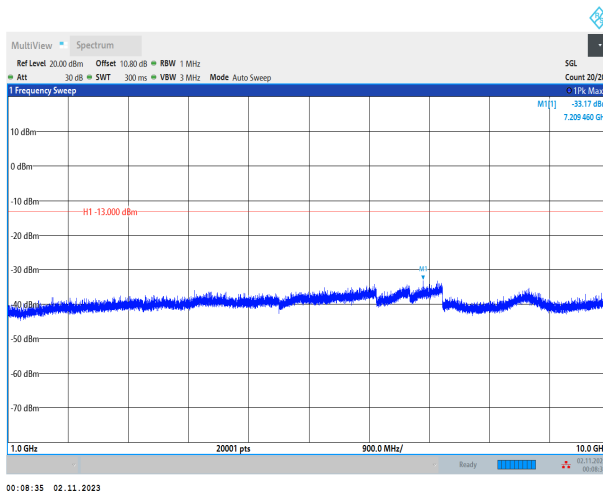
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Band V-4132-30~1000MHz



Band V-4132-1000~10000MHz



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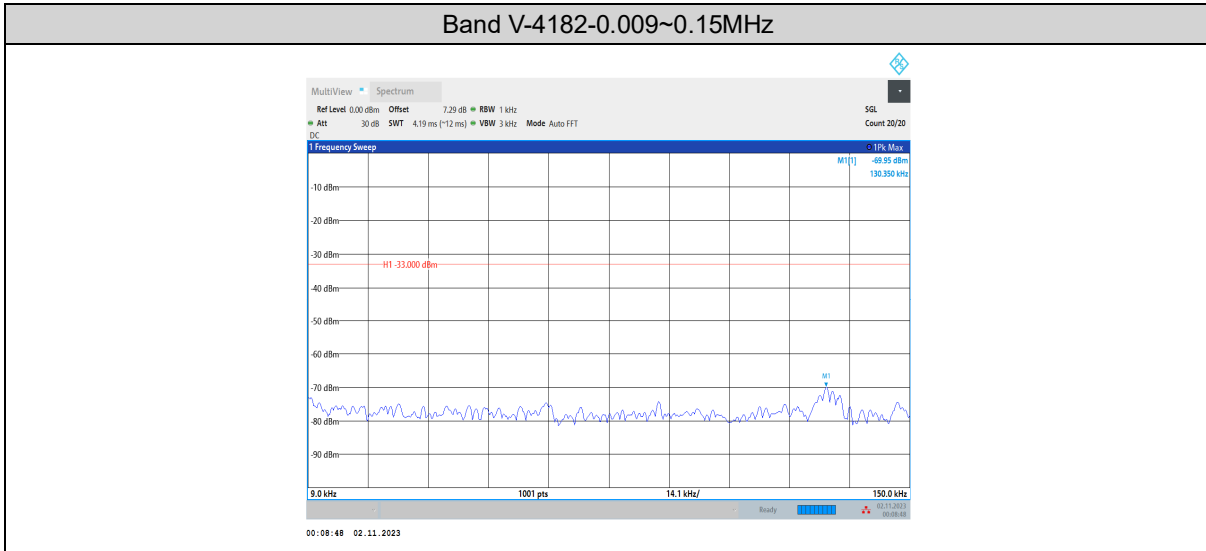
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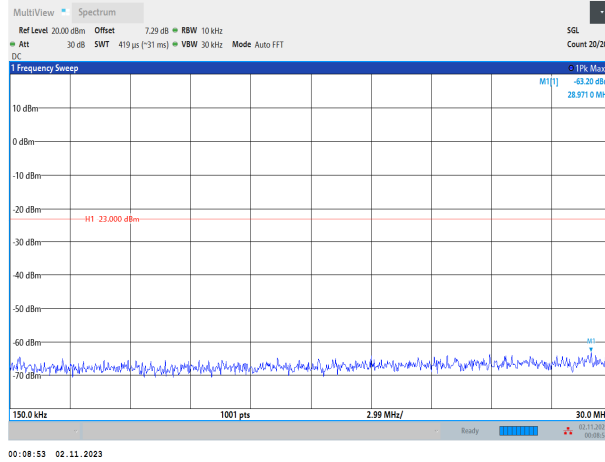


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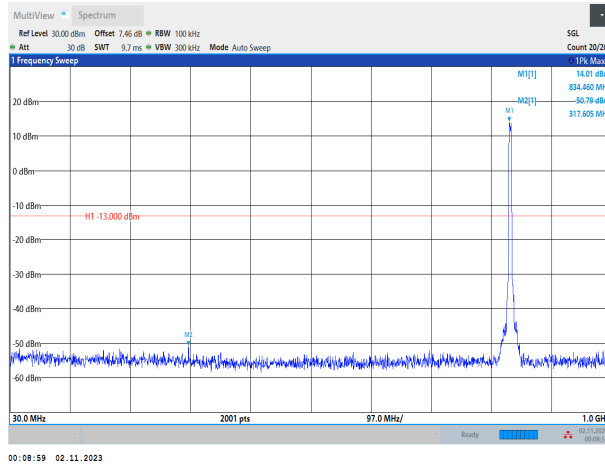
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Band V-4182-0.15~30MHz



Band V-4182-30~1000MHz

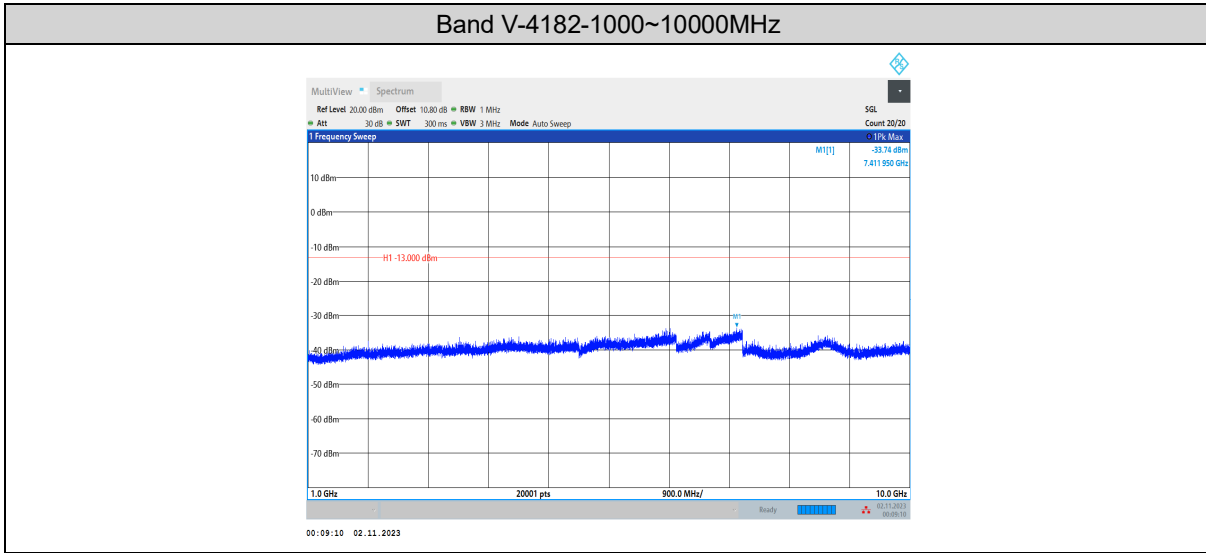


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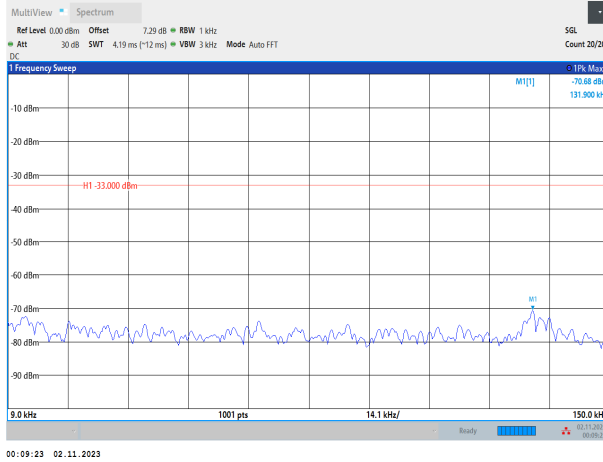
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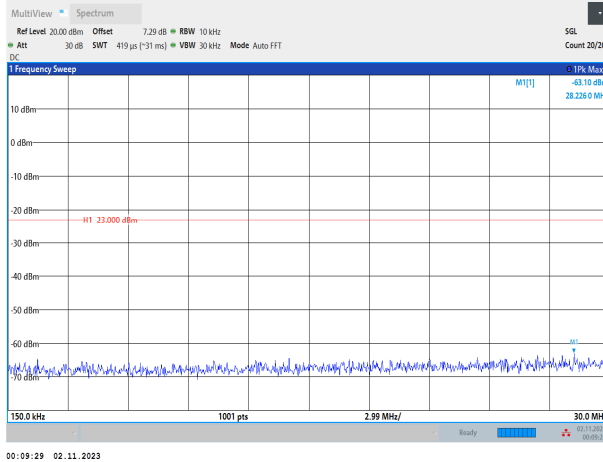
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Member of the SGS Group (SGS SA)

Band V-4233-0.009~0.15MHz

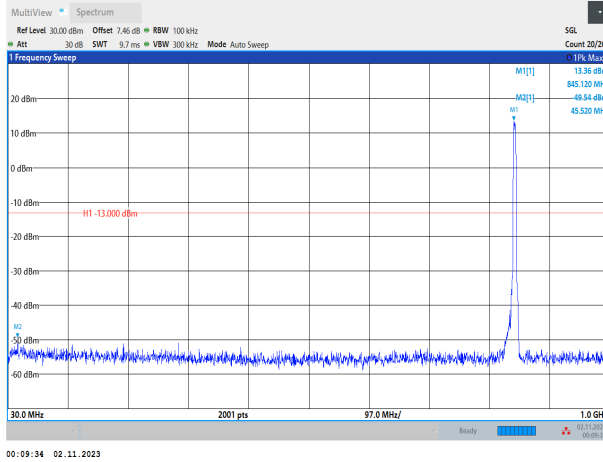


Band V-4233-0.15~30MHz

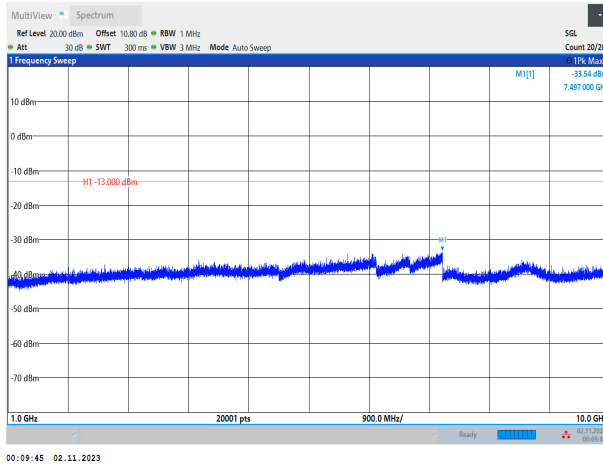


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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA_II_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2975	37.29	-17.21	28.45	-46.73	-13.00	33.73	Horizontal
2	3706.5	54.81	-44.54	29.34	-55.65	-13.00	42.65	Horizontal
3	5506	44.65	-41.83	32.38	-60.06	-13.00	47.06	Horizontal
4	7426.5	43.19	-38.28	36.75	-53.60	-13.00	40.60	Horizontal
5	11025.5	41.77	-37.14	40.13	-50.50	-13.00	37.50	Horizontal
6	17987.5	39.43	-43.14	47.98	-50.99	-13.00	37.99	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2982.5	37.16	-17.33	28.50	-46.93	-13.00	33.93	Vertical
2	3706.5	55.42	-44.54	29.34	-55.04	-13.00	42.04	Vertical
3	5560.5	48.29	-41.60	32.28	-56.29	-13.00	43.29	Vertical
4	7412.5	43.11	-38.28	36.73	-53.70	-13.00	40.70	Vertical
5	11118.5	42.64	-37.90	40.20	-50.32	-13.00	37.32	Vertical
6	16352	40.62	-35.08	38.66	-51.06	-13.00	38.06	Vertical



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Report No.: XEWA2310000073RG01

Rev.: 01

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Test Band = WCDMA_II_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2983	37.28	-17.34	28.50	-46.82	-13.00	33.82	Horizontal
2	3758	53.63	-44.75	29.63	-56.75	-13.00	43.75	Horizontal
3	5664	44.74	-41.25	32.50	-59.27	-13.00	46.27	Horizontal
4	7885	42.63	-37.54	36.59	-53.58	-13.00	40.58	Horizontal
5	9907.5	41.25	-35.16	38.61	-50.56	-13.00	37.56	Horizontal
6	17996	39.35	-43.07	48.13	-50.85	-13.00	37.85	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2970	37.38	-17.11	28.42	-46.57	-13.00	33.57	Vertical
2	3761.5	54.87	-44.77	29.65	-55.51	-13.00	42.51	Vertical
3	5144.5	45.14	-42.53	31.77	-60.88	-13.00	47.88	Vertical
4	7411.5	43.24	-38.28	36.72	-53.58	-13.00	40.58	Vertical
5	11096	42.47	-37.57	40.20	-50.16	-13.00	37.16	Vertical
6	17996	39.03	-43.07	48.13	-51.17	-13.00	38.17	Vertical



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Test Band = WCDMA_II_TM1

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2978.5	37.36	-17.27	28.47	-46.70	-13.00	33.70	Horizontal
2	3817	52.01	-44.81	29.77	-58.29	-13.00	45.29	Horizontal
3	5725.5	44.69	-41.21	32.50	-59.28	-13.00	46.28	Horizontal
4	7362	43.53	-38.51	36.55	-53.69	-13.00	40.69	Horizontal
5	11096.5	42.01	-37.57	40.20	-50.62	-13.00	37.62	Horizontal
6	17984.5	39.30	-43.16	47.92	-51.20	-13.00	38.20	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	2991.5	37.34	-17.42	28.55	-46.79	-13.00	33.79	Vertical
2	3813.5	55.13	-44.83	29.77	-55.19	-13.00	42.19	Vertical
3	6026	44.11	-41.07	33.26	-58.96	-13.00	45.96	Vertical
4	7397.5	43.13	-38.30	36.69	-53.74	-13.00	40.74	Vertical
5	11097.5	42.17	-37.57	40.20	-50.46	-13.00	37.46	Vertical
6	17986.5	39.74	-43.15	47.96	-50.71	-13.00	37.71	Vertical



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Test Band = WCDMA_V_TM1

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.5	67.71	-47.51	25.46	-49.60	-13.00	36.60	Horizontal
2	2481.5	49.39	-46.68	27.73	-64.82	-13.00	51.82	Horizontal
3	3308.5	48.97	-45.71	28.52	-63.48	-13.00	50.48	Horizontal
4	4136.5	52.86	-44.00	29.43	-56.97	-13.00	43.97	Horizontal
5	4952	50.61	-42.95	31.01	-56.59	-13.00	43.59	Horizontal
6	9885.5	40.73	-35.32	38.48	-51.37	-13.00	38.37	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651	69.55	-47.52	25.49	-47.74	-13.00	34.74	Vertical
2	2482	52.46	-46.68	27.73	-61.75	-13.00	48.75	Vertical
3	3308.5	53.67	-45.71	28.52	-58.78	-13.00	45.78	Vertical
4	4136.5	54.69	-44.00	29.43	-55.14	-13.00	42.14	Vertical
5	4952.5	53.28	-42.95	31.01	-53.92	-13.00	40.92	Vertical
6	9909	40.74	-35.33	38.61	-51.24	-13.00	38.24	Vertical



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Test Band = WCDMA_V_TM1

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.5	66.37	-47.48	25.33	-51.04	-13.00	38.04	Horizontal
2	2506	48.78	-46.66	27.80	-65.34	-13.00	52.34	Horizontal
3	3342.5	49.71	-45.65	28.59	-62.61	-13.00	49.61	Horizontal
4	4186.5	51.84	-43.87	29.55	-57.74	-13.00	44.74	Horizontal
5	5013	47.82	-42.91	31.30	-59.05	-13.00	46.05	Horizontal
6	9887	40.85	-35.32	38.50	-51.23	-13.00	38.23	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1671.5	70.26	-47.48	25.33	-47.15	-13.00	34.15	Vertical
2	2506.5	54.69	-46.66	27.80	-59.43	-13.00	46.43	Vertical
3	3348.5	53.06	-45.63	28.60	-59.23	-13.00	46.23	Vertical
4	4178	54.07	-43.89	29.51	-55.57	-13.00	42.57	Vertical
5	5012.5	50.34	-42.91	31.30	-56.53	-13.00	43.53	Vertical
6	9910.5	40.62	-35.33	38.61	-51.36	-13.00	38.36	Vertical



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Test Band = WCDMA_V_TM1

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1692	66.43	-47.44	25.16	-51.11	-13.00	38.11	Horizontal
2	3389.5	49.64	-45.55	28.60	-62.57	-13.00	49.57	Horizontal
3	4237.5	50.93	-43.48	29.75	-58.06	-13.00	45.06	Horizontal
4	5077	48.60	-42.74	31.55	-57.85	-13.00	44.85	Horizontal
5	7407	42.79	-38.35	36.71	-54.11	-13.00	41.11	Horizontal
6	9909.5	41.30	-35.33	38.61	-50.68	-13.00	37.68	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5	71.62	-47.45	25.17	-45.92	-13.00	32.92	Vertical
2	2536.5	53.11	-46.50	27.80	-60.85	-13.00	47.85	Vertical
3	3383.5	53.39	-45.56	28.60	-58.83	-13.00	45.83	Vertical
4	4237.5	53.67	-43.48	29.75	-55.32	-13.00	42.32	Vertical
5	5077.5	50.57	-42.74	31.55	-55.88	-13.00	42.88	Vertical
6	9914.5	40.55	-35.35	38.61	-51.45	-13.00	38.45	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) - Preamplifier (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)	Verdict
Band II	9400	VL	NT	10.81	0.005750	PASS
Band II	9400	VN	NT	10.44	0.005553	PASS
Band II	9400	VH	NT	10.88	0.005787	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-1.17	-0.001399	±2.5	PASS
Band V	4182	VN	NT	-0.64	-0.000765	±2.5	PASS
Band V	4182	VH	NT	-0.67	-0.000801	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	10.74	0.005713	PASS
Band II	9400	NV	-20	11.32	0.006021	PASS
Band II	9400	NV	-10	10.52	0.005596	PASS
Band II	9400	NV	0	10.82	0.005755	PASS
Band II	9400	NV	10	10.34	0.005500	PASS
Band II	9400	NV	20	11.29	0.006005	PASS
Band II	9400	NV	30	10.05	0.005346	PASS
Band II	9400	NV	40	10.29	0.005473	PASS
Band II	9400	NV	50	10.57	0.005622	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-0.67	-0.000801	±2.5	PASS
Band V	4182	NV	-20	-0.44	-0.000526	±2.5	PASS
Band V	4182	NV	-10	-0.84	-0.001004	±2.5	PASS
Band V	4182	NV	0	-0.88	-0.001052	±2.5	PASS
Band V	4182	NV	10	-0.41	-0.000490	±2.5	PASS
Band V	4182	NV	20	-0.64	-0.000765	±2.5	PASS
Band V	4182	NV	30	-0.69	-0.000825	±2.5	PASS
Band V	4182	NV	40	-0.83	-0.000992	±2.5	PASS
Band V	4182	NV	50	-1.12	-0.001339	±2.5	PASS

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