Appendix B.2

WCDMA Band II&V

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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT0

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.36	22.36	33	PASS
Band II	9400	23.27	22.27	33	PASS
Band II	9538	23.41	22.41	33	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.42	18.57	38.5	PASS
Band V	4182	23.44	18.59	38.5	PASS
Band V	4233	23.43	18.58	38.5	PASS

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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band II	9262	3.18	13	PASS
Band II	9400	3.16	13	PASS
Band II	9538	3.28	13	PASS
Band V	4132	3.14	13	PASS
Band V	4182	3.14	13	PASS
Band V	4233	3.02	13	PASS

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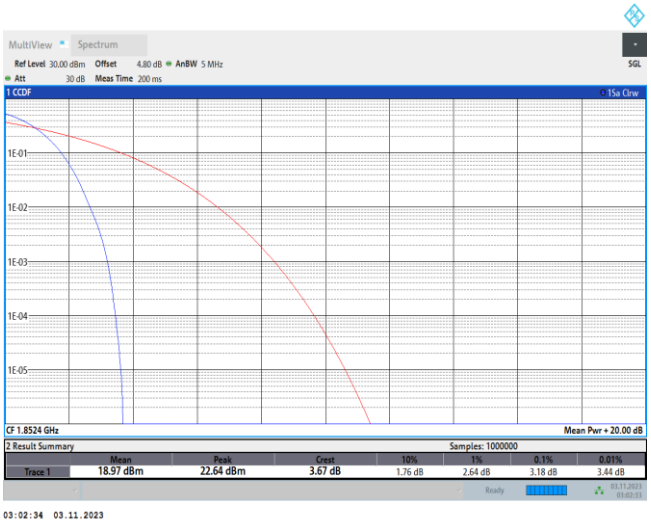
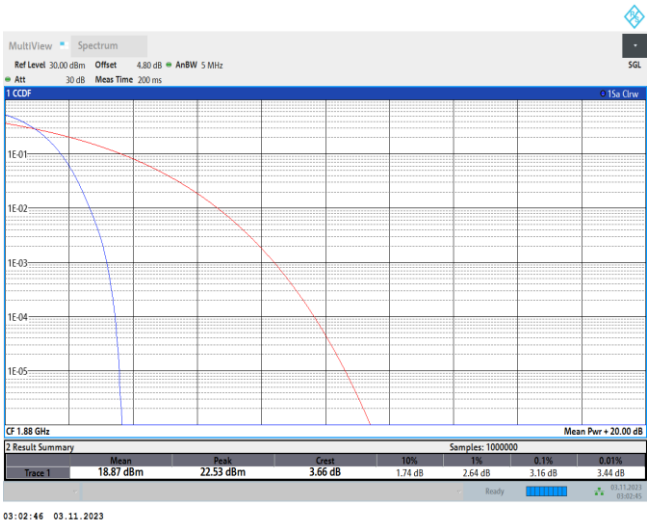
Test Graphs

Band II-9262


Band II-9400


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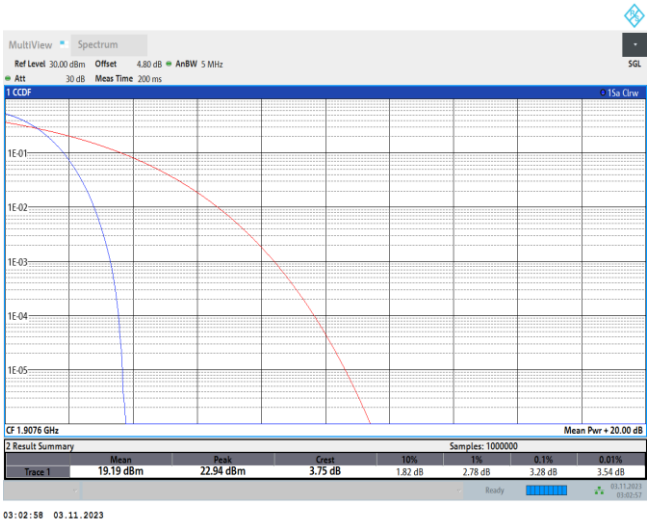
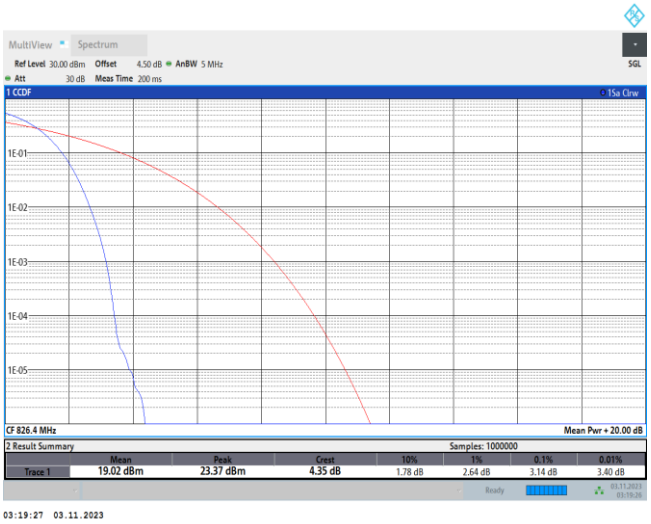
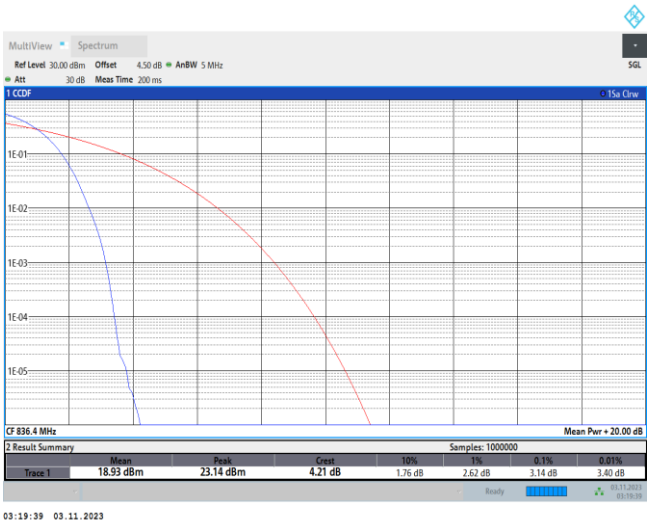
Band II-9538


MultiView
Spectrum
Ref Level 30.00 dBm Offset 4.80 dB AnBW 5 MHz
Att 30 dB Meas Time 200 ms
1 CCDF
1E-01
1E-02
1E-03
1E-04
1E-05
CF 1.9076 GHz
Mean Pwr + 20.00 dB
2 Result Summary
Samples: 1000000
Mean Peak Crest 10% 1% 0.1% 0.01%
Trace 1 19.19 dBm 22.94 dBm 3.75 dB 1.82 dB 2.78 dB 3.28 dB 3.54 dB
03:02:58 03.11.2023

Band V-4132



Band V-4182



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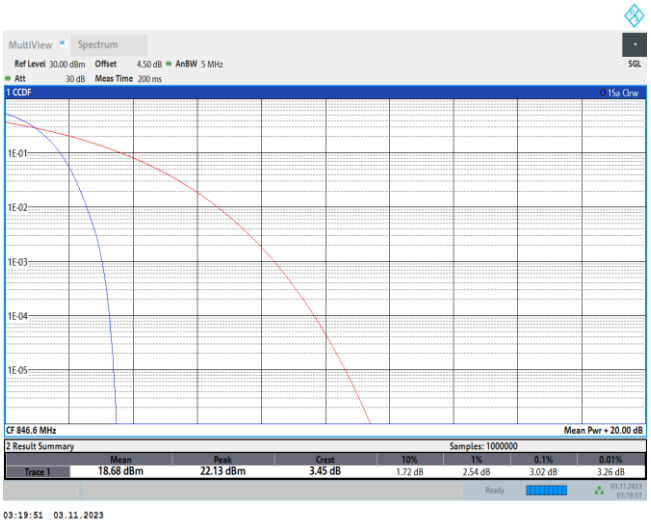
Band V-4233



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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	4.176	4.72	---	PASS
Band II	9400	4.174	4.72	---	PASS
Band II	9538	4.169	4.70	---	PASS
Band V	4132	4.148	4.72	---	PASS
Band V	4182	4.156	4.72	---	PASS
Band V	4233	4.157	4.70	---	PASS

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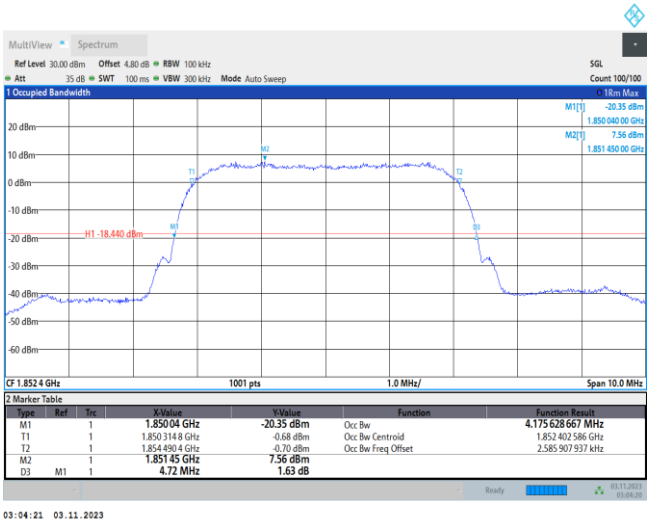
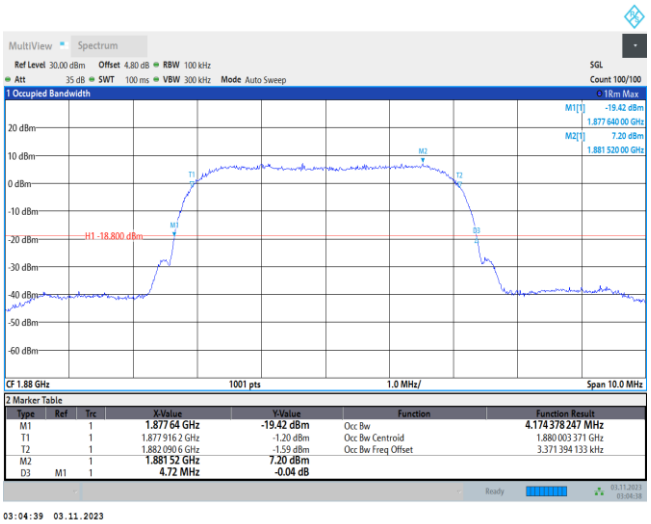
Test Graphs

Band II-9262


Band II-9400


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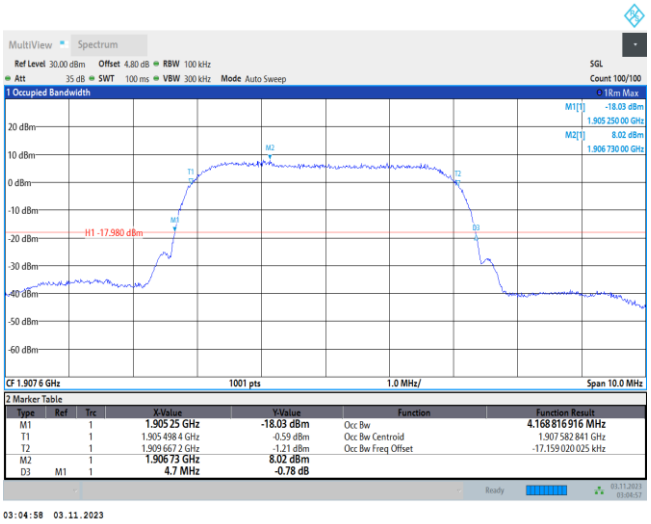
Band II-9538



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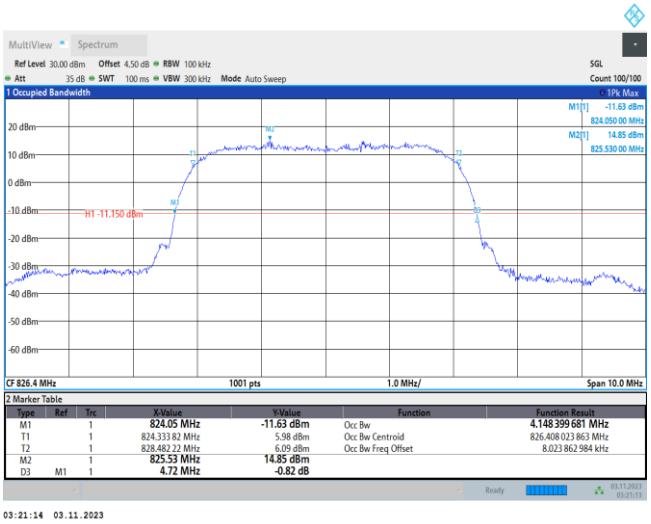
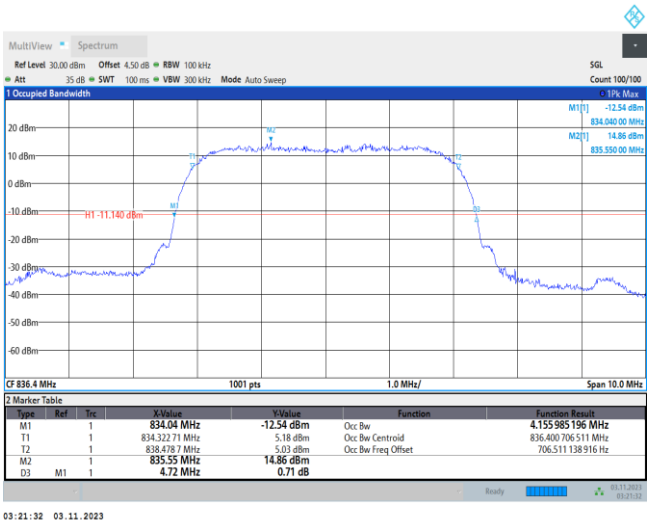
Band V-4132



Band V-4182



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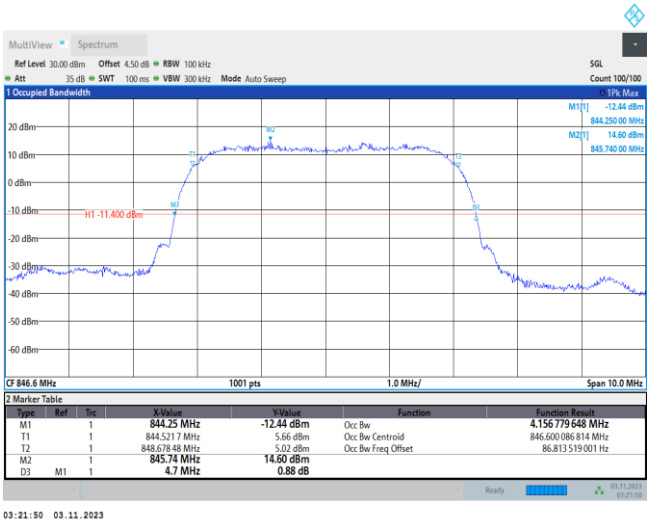
Band V-4233



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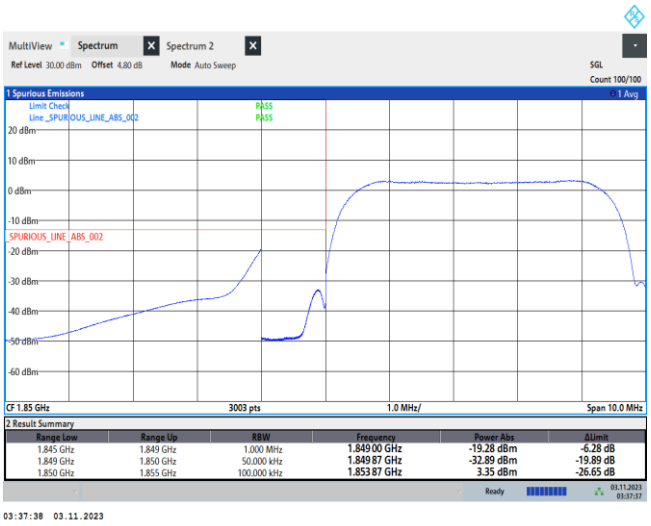
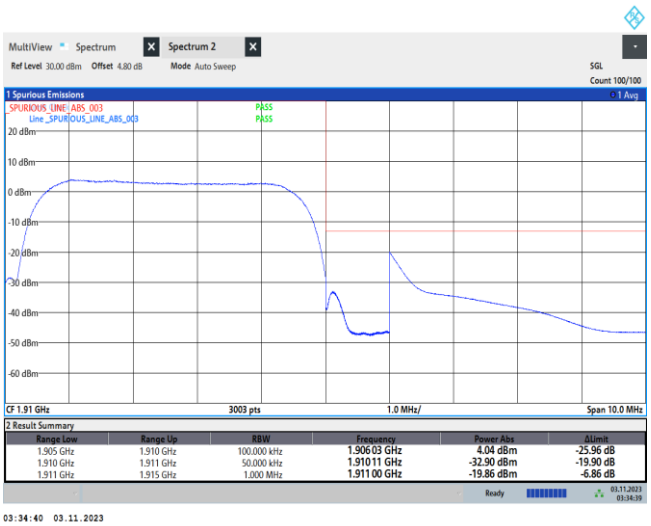
Band Edge

Test Graphs

Band II-9262



Band II-9538



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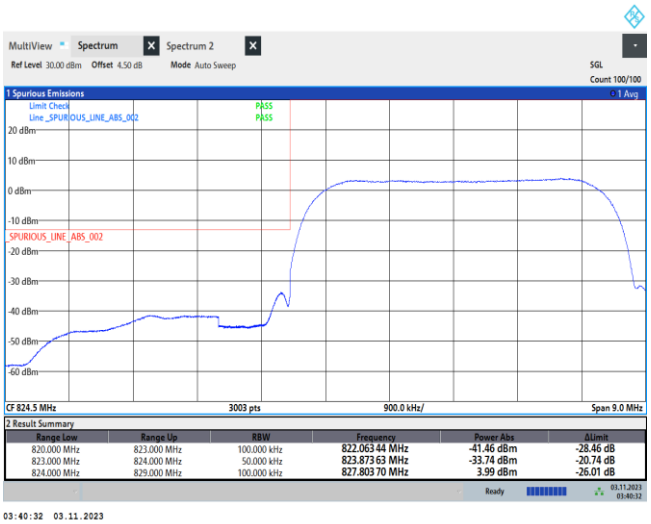
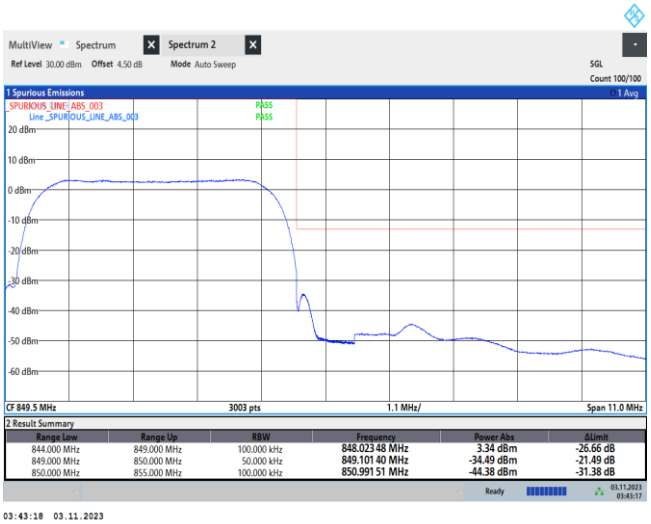
Band V-4132



Band V-4233



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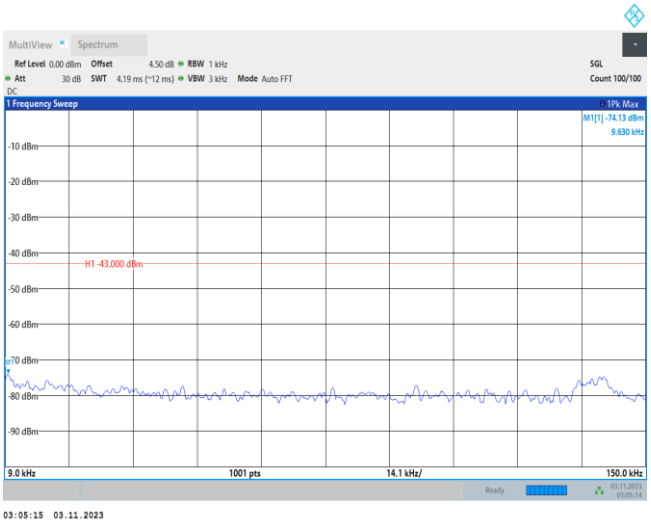
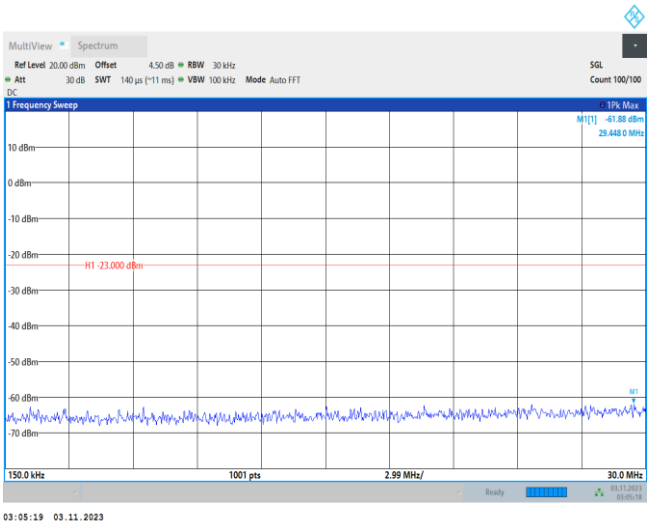
Conducted Spurious Emission

Test Graphs

Band II-9262-0.009~0.15MHz



Band II-9262-0.15~30MHz



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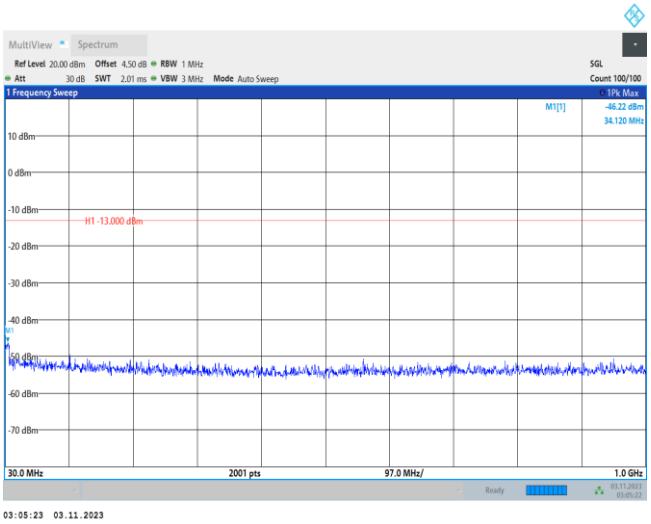
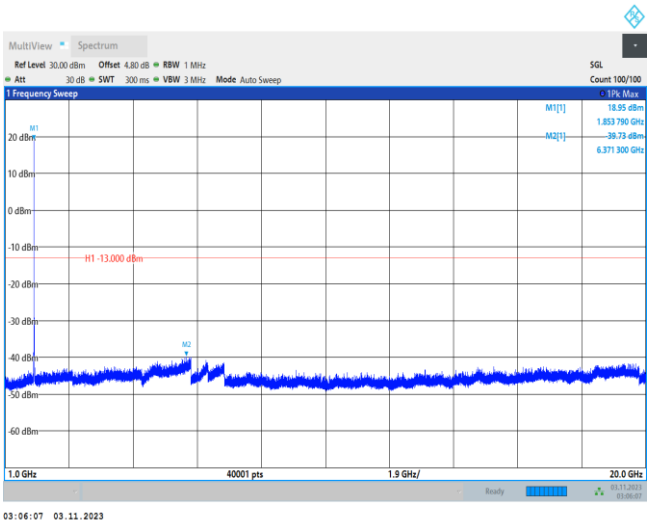
Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz



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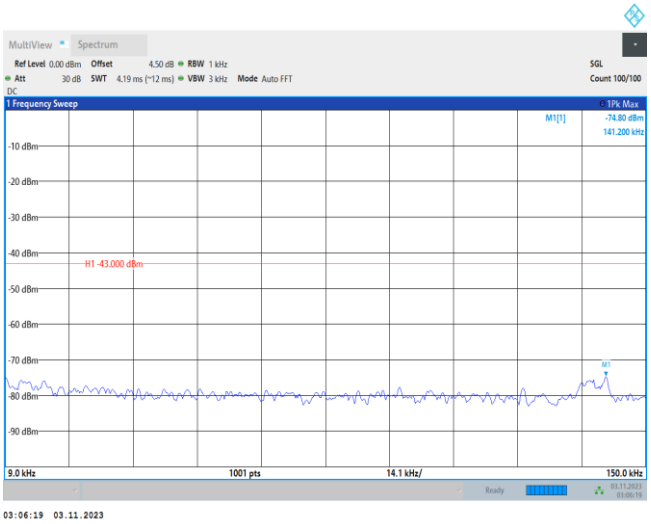
Band II-9400-0.009~0.15MHz



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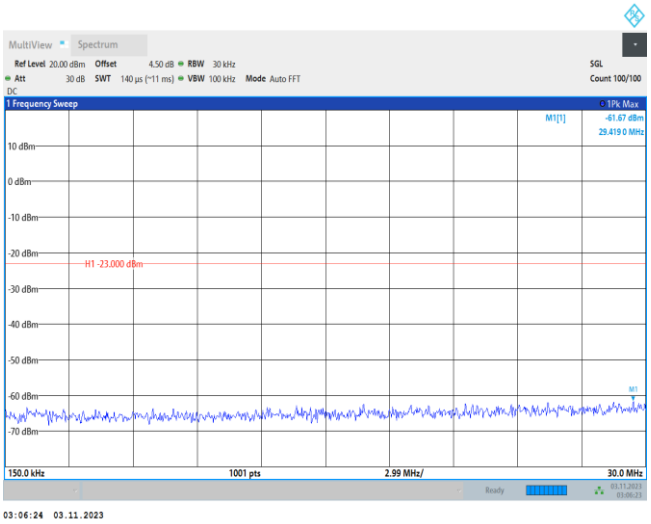
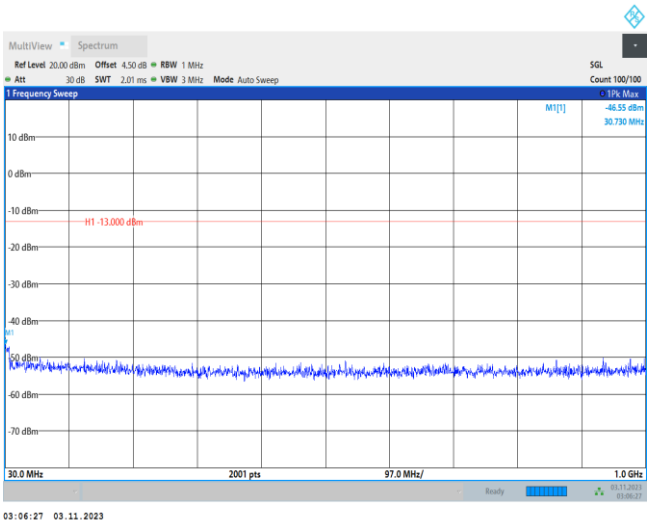
Band II-9400-0.15~30MHz



Band II-9400-30~1000MHz



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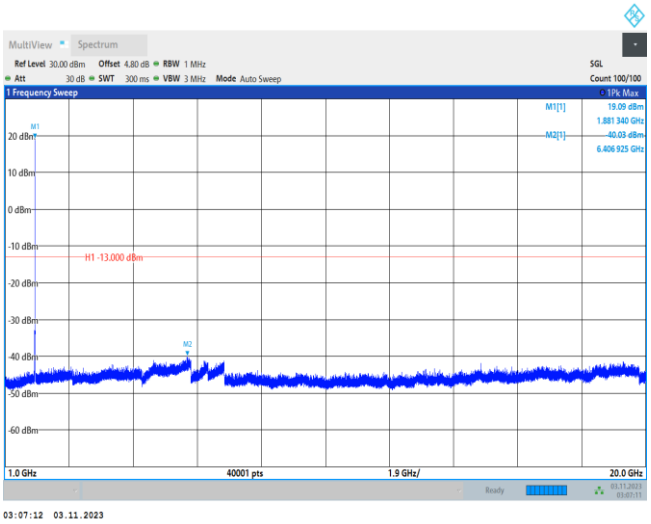
Band II-9400-1000~20000MHz



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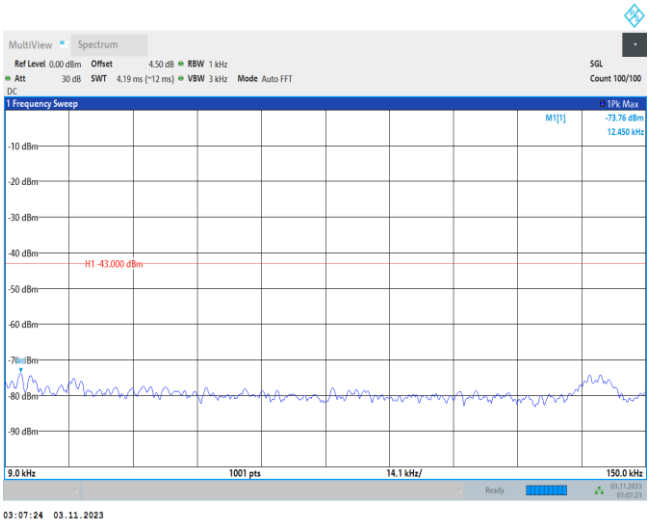
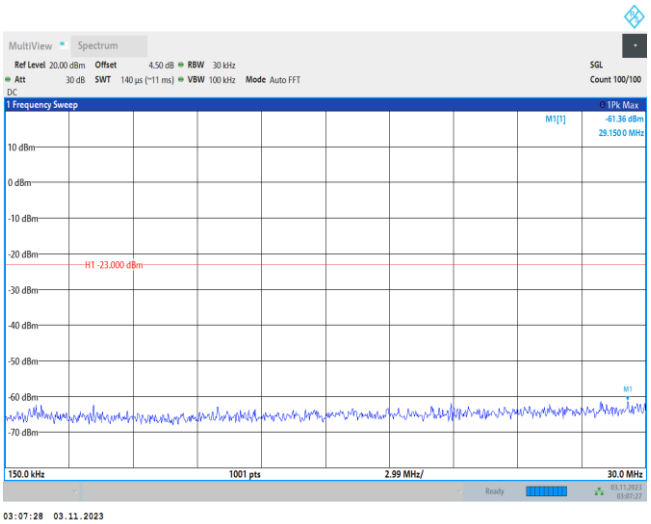
Band II-9538-0.009~0.15MHz



Band II-9538-0.15~30MHz



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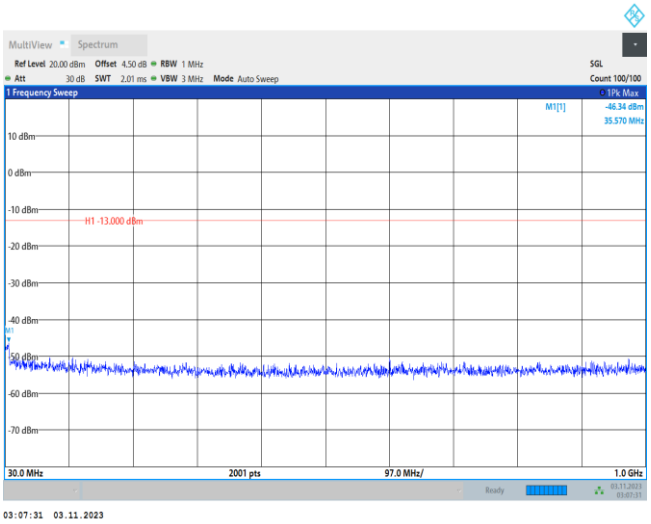
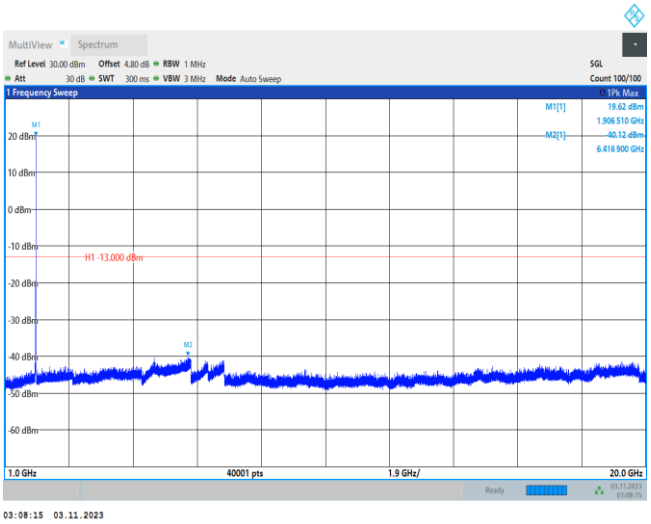
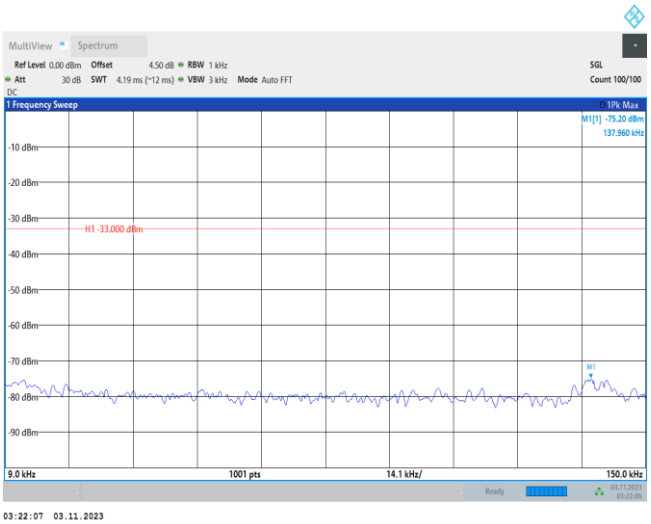
Band II-9538-30~1000MHz



Band II-9538-1000~20000MHz



Band V-4132-0.009~0.15MHz



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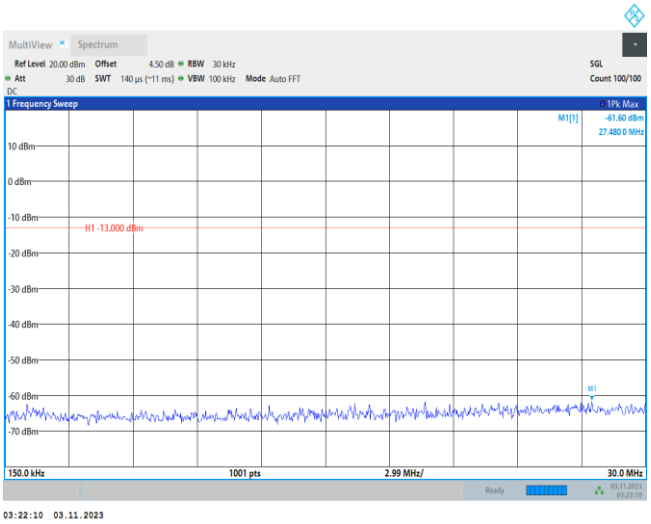
Band V-4132-0.15~30MHz



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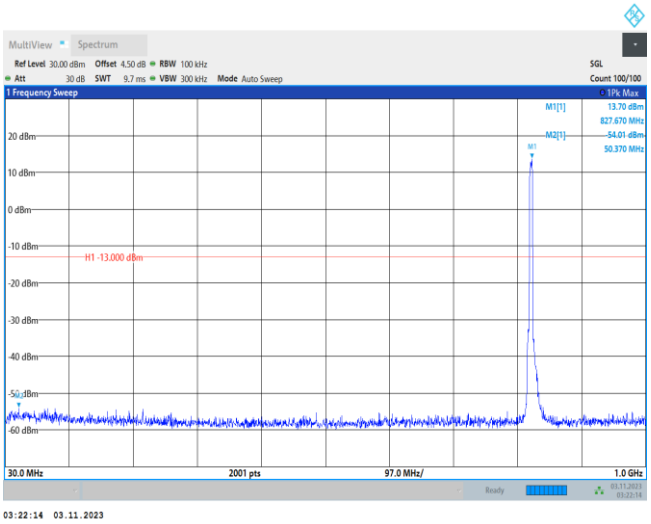
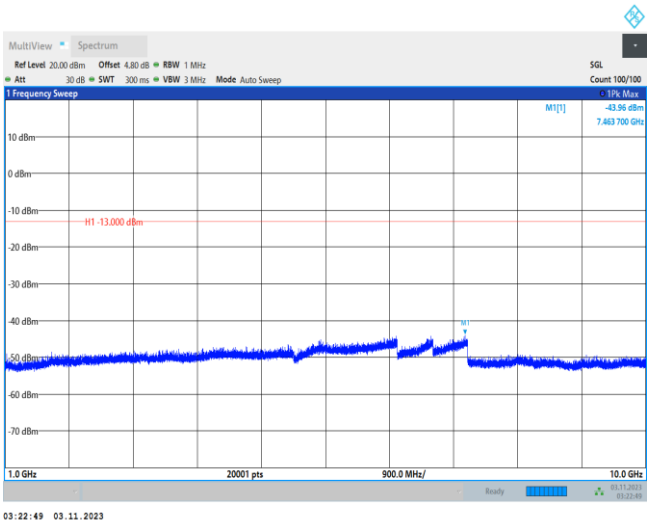
Band V-4132-30~1000MHz



Band V-4132-1000~10000MHz



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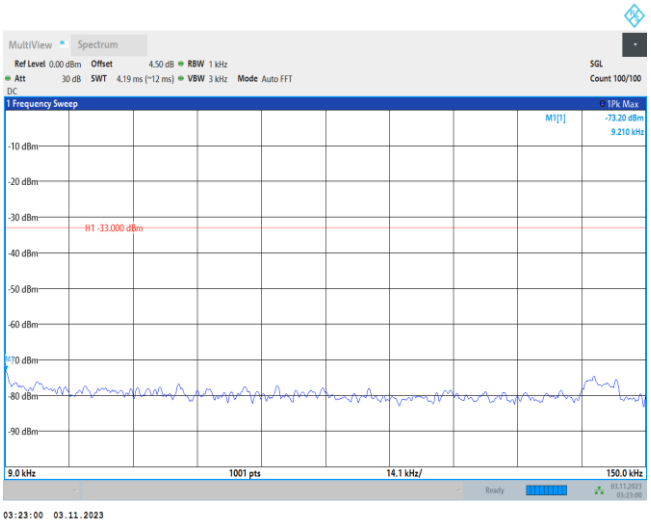
Band V-4182-0.009~0.15MHz



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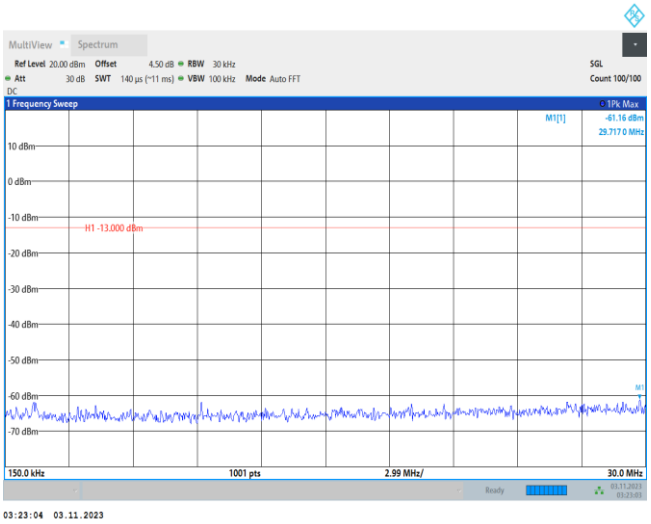
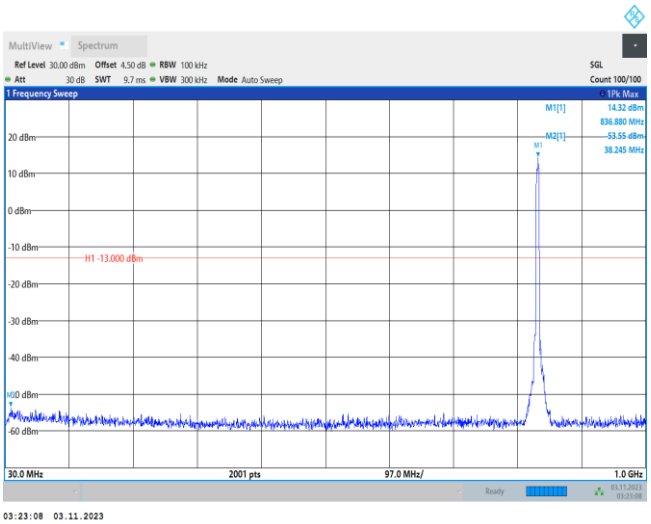
Band V-4182-0.15~30MHz



Band V-4182-30~1000MHz



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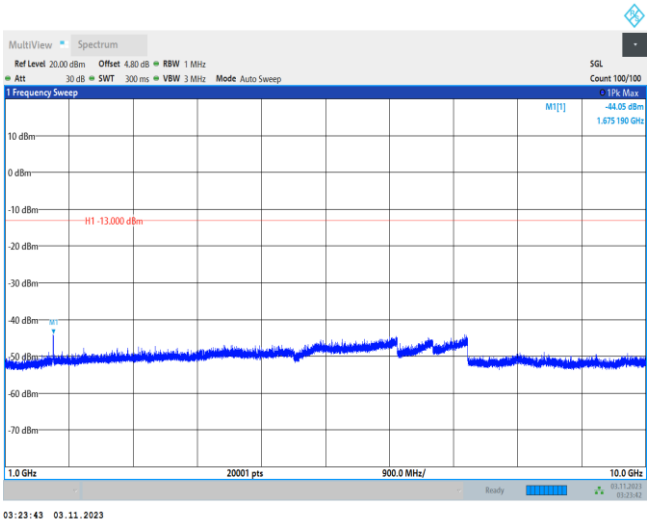
Band V-4182-1000~10000MHz



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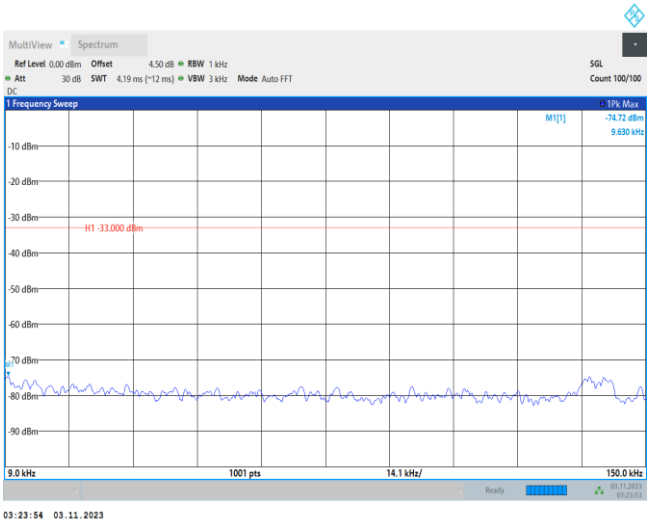
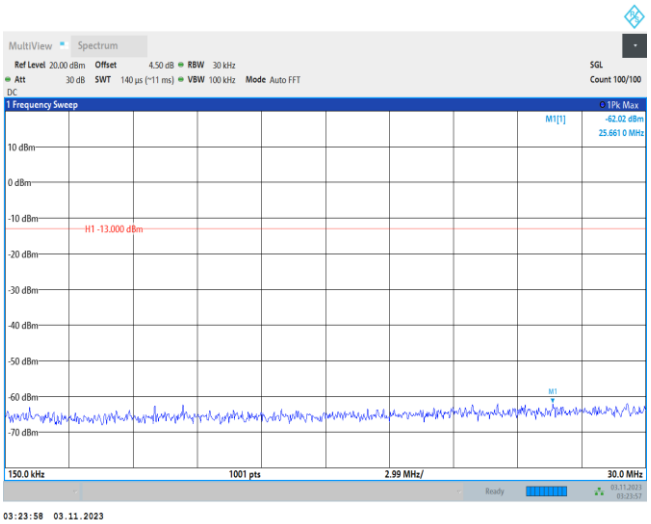
Band V-4233-0.009~0.15MHz



Band V-4233-0.15~30MHz



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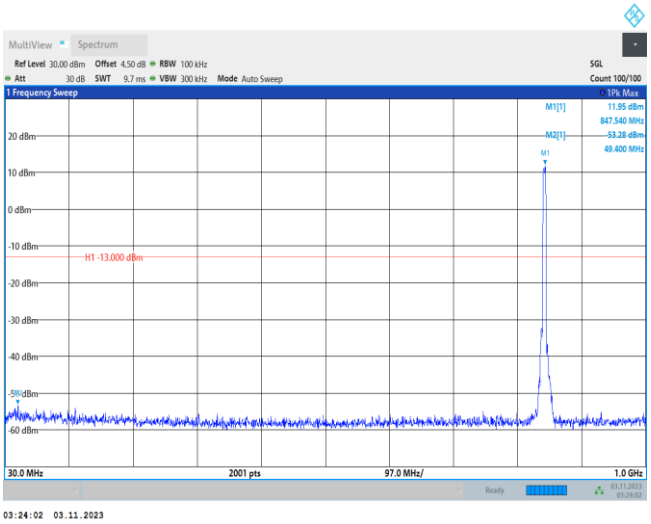
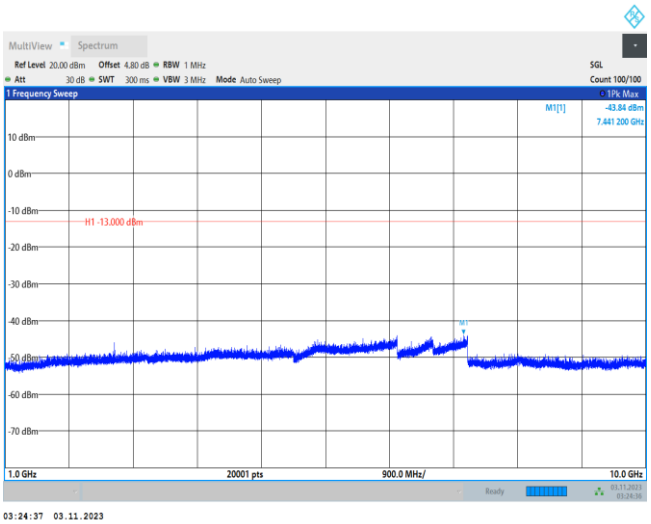
Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = WCDMA Band II _ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3706.5	67.94	-48.49	28.99	-46.82	-13.00	33.82	Horizontal
2	5560.5	57.84	-47.66	32.71	-52.37	-13.00	39.37	Horizontal
3	7406.25	53.98	-46.17	36.58	-50.88	-13.00	37.88	Horizontal
4	9263.25	47.03	-43.12	37.84	-53.52	-13.00	40.52	Horizontal
5	12970.5	40.11	-39.40	38.62	-55.93	-13.00	42.93	Horizontal
6	11114.4	37.74	-40.36	39.38	-58.50	-13.00	45.50	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3703.5	69.53	-48.50	28.98	-45.24	-13.00	32.24	Vertical
2	5559.75	61.73	-47.66	32.71	-48.48	-13.00	35.48	Vertical
3	7412.25	56.52	-46.17	36.59	-48.32	-13.00	35.32	Vertical
4	9266.25	47.58	-43.10	37.84	-52.94	-13.00	39.94	Vertical
5	11107.5	39.53	-40.36	39.38	-56.71	-13.00	43.71	Vertical
6	12970.5	40.55	-39.40	38.62	-55.49	-13.00	42.49	Vertical

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Test Band = WCDMA Band II _ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.25	69.57	-48.31	29.07	-44.93	-13.00	31.93	Horizontal
2	5643	58.66	-47.61	32.73	-51.48	-13.00	38.48	Horizontal
3	7523.25	54.71	-45.80	36.77	-49.58	-13.00	36.58	Horizontal
4	9404.25	43.47	-43.02	37.96	-56.85	-13.00	43.85	Horizontal
5	11280	37.16	-40.44	39.34	-59.19	-13.00	46.19	Horizontal
6	13160	36.38	-38.58	38.97	-58.49	-13.00	45.49	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3758.25	69.58	-48.32	29.06	-44.94	-13.00	31.94	Vertical
2	5636.25	60.51	-47.62	32.73	-49.65	-13.00	36.65	Vertical
3	7523.25	55.90	-45.80	36.77	-48.39	-13.00	35.39	Vertical
4	9404.25	43.90	-43.02	37.96	-56.42	-13.00	43.42	Vertical
5	11280	37.84	-40.44	39.34	-58.51	-13.00	45.51	Vertical
6	13160	36.01	-38.58	38.97	-58.86	-13.00	45.86	Vertical

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Test Band = WCDMA Band II _ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.75	70.53	-48.20	29.14	-43.78	-13.00	30.78	Horizontal
2	5725.5	61.97	-47.53	32.75	-48.08	-13.00	35.08	Horizontal
3	7627.5	56.69	-44.75	36.65	-46.67	-13.00	33.67	Horizontal
4	9542.25	47.17	-42.32	38.09	-52.32	-13.00	39.32	Horizontal
5	11445.6	37.49	-40.07	39.31	-58.53	-13.00	45.53	Horizontal
6	13353.2	37.88	-39.13	39.41	-57.10	-13.00	44.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.75	69.94	-48.20	29.14	-44.37	-13.00	31.37	Vertical
2	5726.25	64.00	-47.53	32.75	-46.05	-13.00	33.05	Vertical
3	7627.5	59.03	-44.75	36.65	-44.33	-13.00	31.33	Vertical
4	9542.25	45.24	-42.32	38.09	-54.25	-13.00	41.25	Vertical
5	13360.5	41.01	-39.14	39.43	-53.96	-13.00	40.96	Vertical
6	11445.6	38.12	-40.07	39.31	-57.90	-13.00	44.90	Vertical

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Test Band = WCDMA Band V _ TM1
Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651.5556	70.31	-49.82	25.31	-49.47	-13.00	36.47	Horizontal
2	2482.6667	54.02	-49.00	27.28	-62.96	-13.00	49.96	Horizontal
3	4138.6667	45.84	-48.30	29.65	-68.07	-13.00	55.07	Horizontal
4	3305.6	46.49	-48.63	28.62	-68.78	-13.00	55.78	Horizontal
5	4958.4	43.38	-48.05	31.40	-68.53	-13.00	55.53	Horizontal
6	5784.8	43.62	-47.69	32.76	-66.57	-13.00	53.57	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1651.1111	62.26	-49.82	25.30	-57.52	-13.00	44.52	Vertical
2	2482.6667	52.08	-49.00	27.28	-64.90	-13.00	51.90	Vertical
3	3305.6	44.65	-48.63	28.62	-70.62	-13.00	57.62	Vertical
4	4132	44.71	-48.29	29.64	-69.20	-13.00	56.20	Vertical
5	4958.4	43.34	-48.05	31.40	-68.57	-13.00	55.57	Vertical
6	5784.8	43.35	-47.69	32.76	-66.84	-13.00	53.84	Vertical

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Test Band = WCDMA Band V _ TM1
Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.2222	71.79	-49.77	25.40	-47.85	-13.00	34.85	Horizontal
2	2505.7778	55.52	-48.92	27.31	-61.34	-13.00	48.34	Horizontal
3	3340.8889	49.31	-48.65	28.64	-65.97	-13.00	52.97	Horizontal
4	4182	43.65	-48.34	29.73	-70.22	-13.00	57.22	Horizontal
5	5018.4	42.96	-47.95	31.54	-68.71	-13.00	55.71	Horizontal
6	5854.8	43.19	-47.33	32.77	-66.63	-13.00	53.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.6667	64.99	-49.77	25.40	-54.64	-13.00	41.64	Vertical
2	2506.6667	52.49	-48.92	27.32	-64.37	-13.00	51.37	Vertical
3	3345.6	45.16	-48.66	28.64	-70.12	-13.00	57.12	Vertical
4	4182	43.72	-48.34	29.73	-70.15	-13.00	57.15	Vertical
5	5018.4	43.15	-47.95	31.54	-68.52	-13.00	55.52	Vertical
6	5854.8	42.87	-47.33	32.77	-66.95	-13.00	53.95	Vertical

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Test Band = WCDMA Band V _ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.5556	73.66	-49.74	25.47	-45.87	-13.00	32.87	Horizontal
2	2542.2222	56.52	-49.01	27.40	-60.35	-13.00	47.35	Horizontal
3	3390.2222	47.45	-48.68	28.66	-67.84	-13.00	54.84	Horizontal
4	4233	44.06	-48.25	29.82	-69.63	-13.00	56.63	Horizontal
5	5079.6	43.40	-47.93	31.69	-68.10	-13.00	55.10	Horizontal
6	5926.2	43.17	-47.17	32.79	-66.48	-13.00	53.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1694.6667	70.29	-49.73	25.48	-49.22	-13.00	36.22	Vertical
2	2542.6667	53.65	-49.02	27.40	-63.22	-13.00	50.22	Vertical
3	3386.4	44.53	-48.68	28.65	-70.76	-13.00	57.76	Vertical
4	4233	44.19	-48.25	29.82	-69.50	-13.00	56.50	Vertical
5	5079.6	43.39	-47.93	31.69	-68.11	-13.00	55.11	Vertical
6	5926.2	43.14	-47.17	32.79	-66.51	-13.00	53.51	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

Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	-2.14	-0.001138	PASS
Band II	9400	VN	NT	-1.54	-0.000819	PASS
Band II	9400	VH	NT	0.14	0.000074	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-4.54	-0.005428	±2.5	PASS
Band V	4182	VN	NT	-3.93	-0.004699	±2.5	PASS
Band V	4182	VH	NT	-2.66	-0.003180	±2.5	PASS

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Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	-3.63	-0.001931	PASS
Band II	9400	NV	-20	-1.85	-0.000984	PASS
Band II	9400	NV	-10	-4.19	-0.002229	PASS
Band II	9400	NV	0	-1.18	-0.000628	PASS
Band II	9400	NV	10	-2.13	-0.001133	PASS
Band II	9400	NV	20	-3.39	-0.001803	PASS
Band II	9400	NV	30	-0.08	-0.000043	PASS
Band II	9400	NV	40	-1.66	-0.000883	PASS
Band II	9400	NV	50	-3.23	-0.001862	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-5.16	-0.006169	±2.5	PASS
Band V	4182	NV	-20	-2.59	-0.003097	±2.5	PASS
Band V	4182	NV	-10	-4.83	-0.005775	±2.5	PASS
Band V	4182	NV	0	-4.14	-0.004950	±2.5	PASS
Band V	4182	NV	10	-4.58	-0.005476	±2.5	PASS
Band V	4182	NV	20	-4.00	-0.004782	±2.5	PASS
Band V	4182	NV	30	-3.15	-0.003766	±2.5	PASS
Band V	4182	NV	40	-2.26	-0.002702	±2.5	PASS
Band V	4182	NV	50	-4.32	-0.005625	±2.5	PASS

---End of Attachment---

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