



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Appendix B.2

WCDMA Band II&V



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Shenzhen Branch Wireless Laboratory

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Effective (Isotropic) Radiated Power Output Data

Test Result

ANT1

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	22.22	22.53	33.00	PASS
Band II	9400	22.15	22.46	33.00	PASS
Band II	9538	22.13	22.44	33.00	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	22.22	20.07	38.45	PASS
Band V	4182	22.23	20.08	38.45	PASS
Band V	4233	22.22	20.07	38.45	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band II	9262	3.13	13	PASS
Band II	9400	3.22	13	PASS
Band II	9538	3.16	13	PASS
Band V	4132	3.19	13	PASS
Band V	4182	3.1	13	PASS
Band V	4233	3.19	13	PASS



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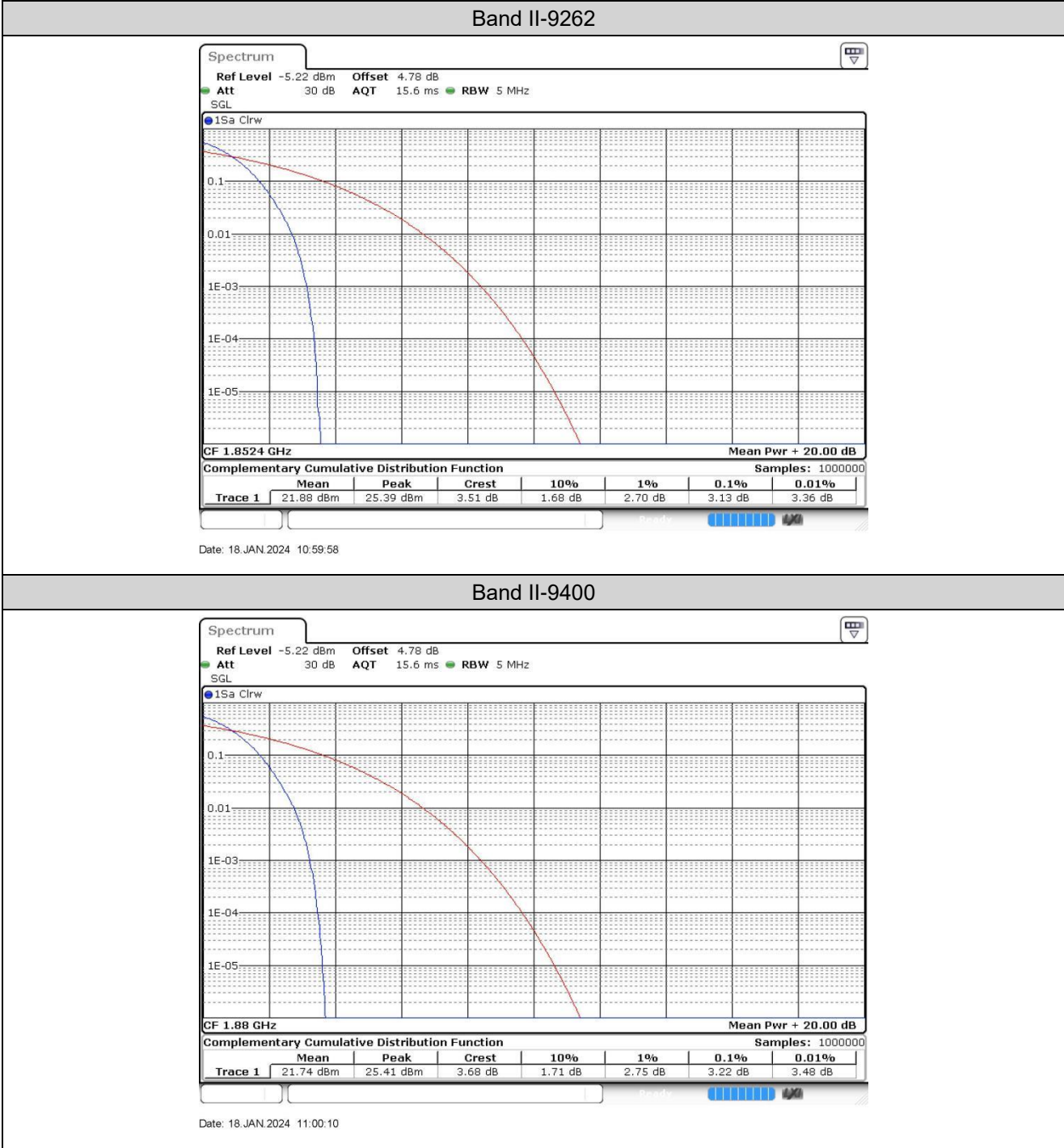
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Spectrum

Ref Level -5.12 dBm Offset 4.88 dB
Att 30 dB AQT 15.6 ms RBW 5 MHz
SGL

1Sa Clrw

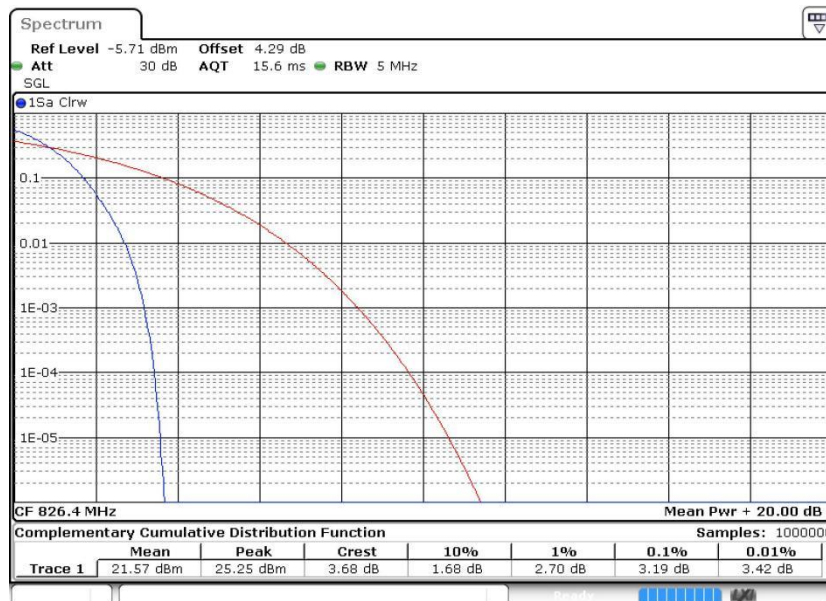
CF 1.9076 GHz Mean Pwr + 20.00 dB

Complementary Cumulative Distribution Function

Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.77 dBm	25.35 dBm	3.58 dB	1.71 dB	2.72 dB	3.16 dB	3.36 dB

Band V-4132



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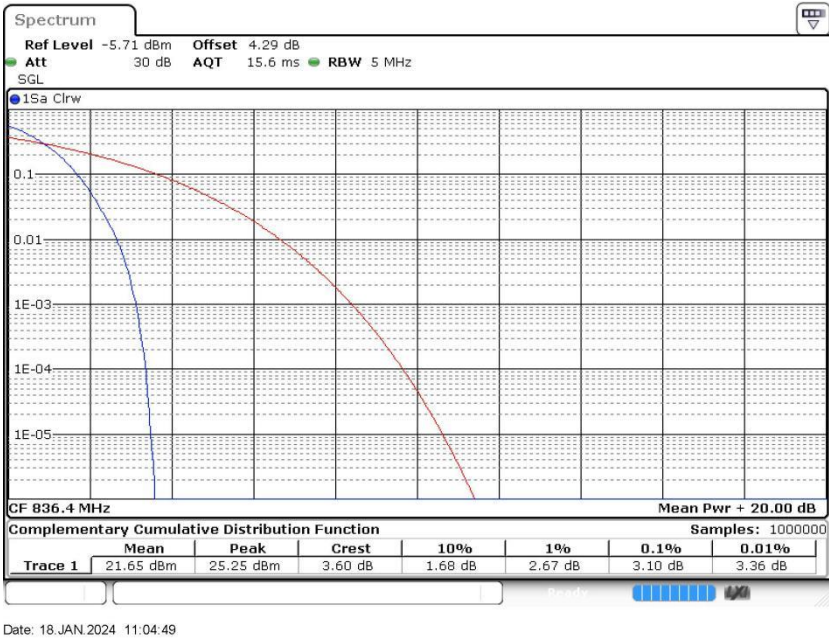
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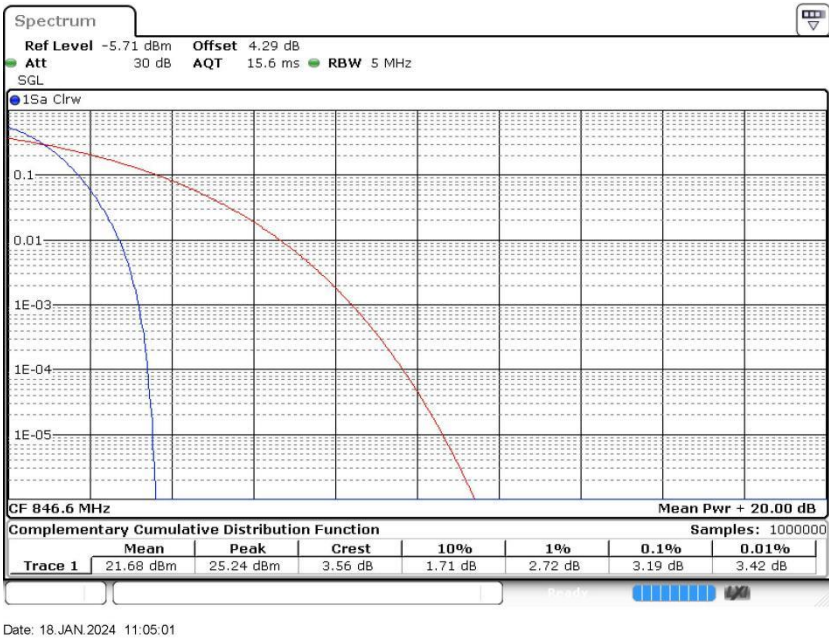
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band II	9262	4.186	4.74	---	PASS
Band II	9400	4.186	4.73	---	PASS
Band II	9538	4.176	4.73	---	PASS
Band V	4132	4.156	4.72	---	PASS
Band V	4182	4.176	4.72	---	PASS
Band V	4233	4.156	4.71	---	PASS



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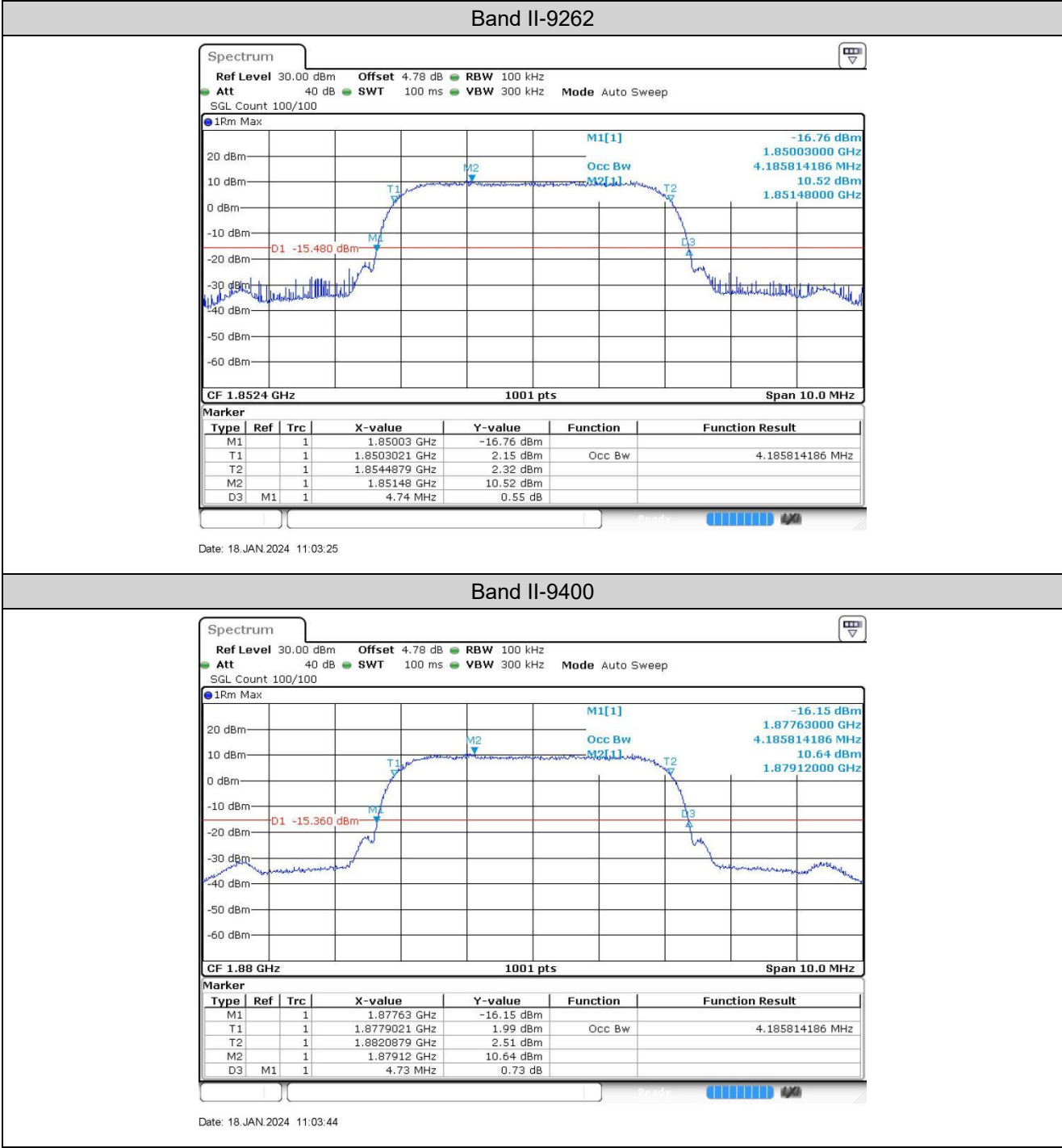
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Test Graphs



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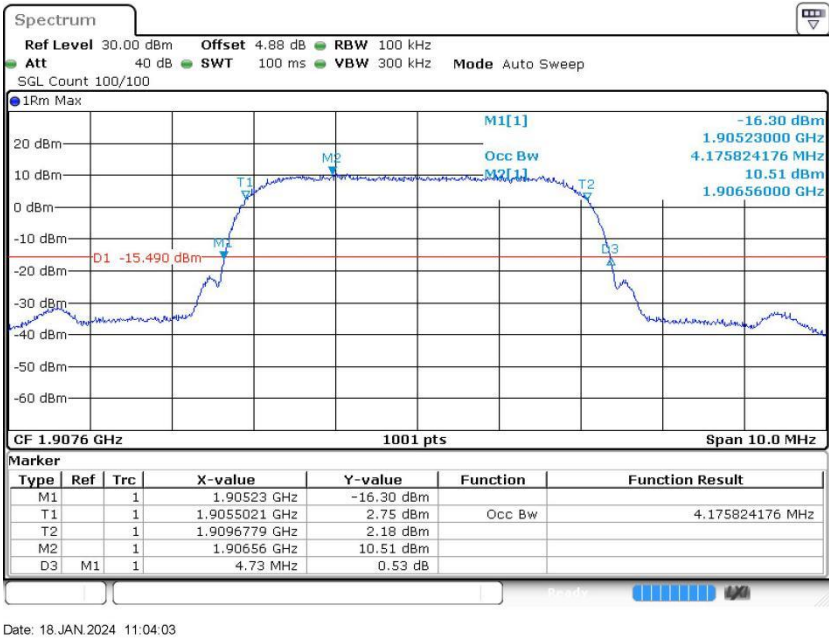
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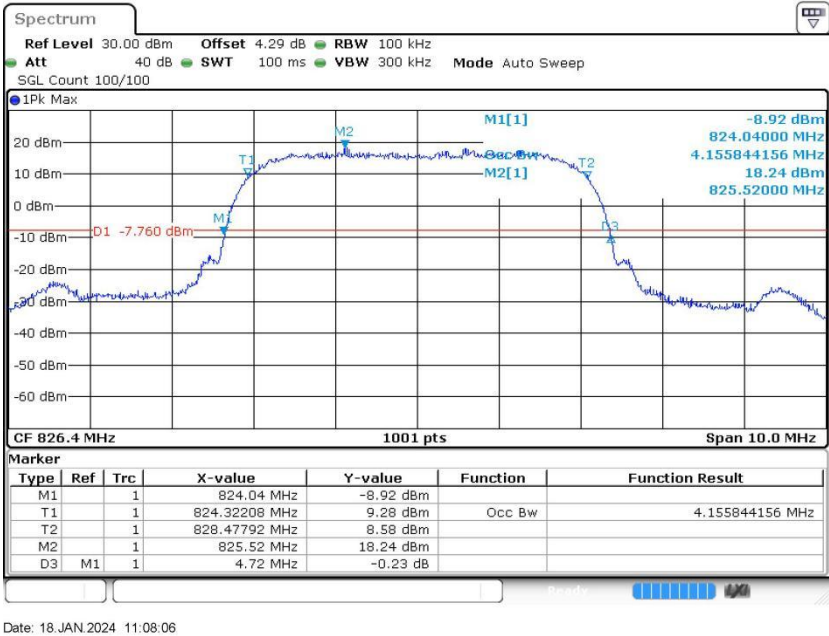
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Band II-9538



Band V-4132



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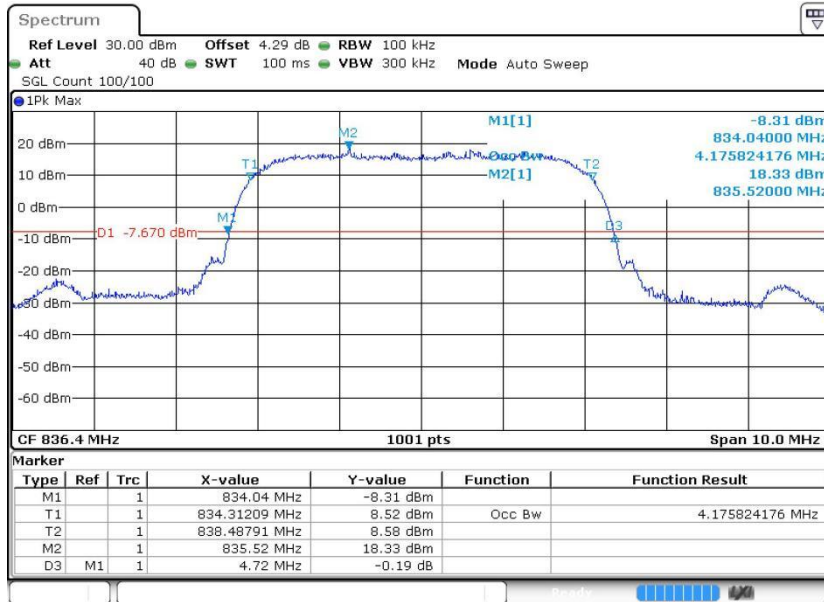
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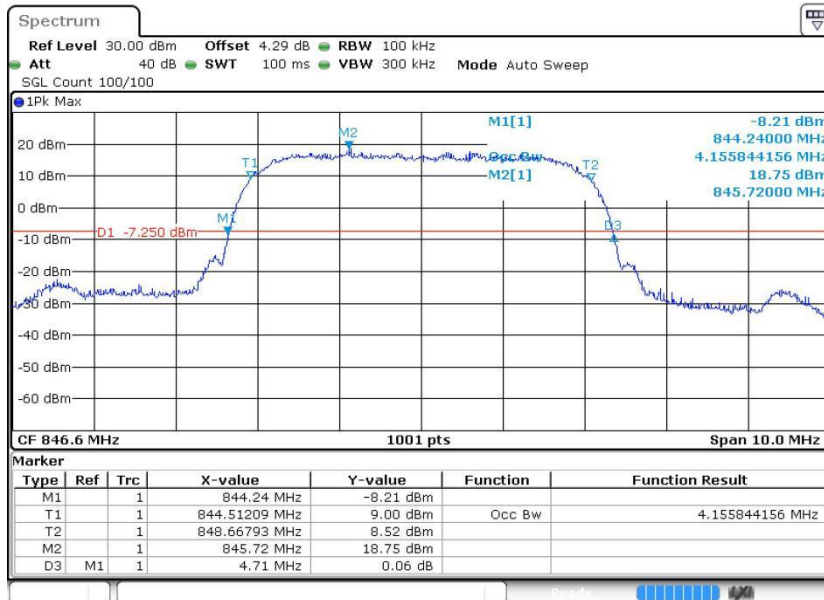
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Band V-4233



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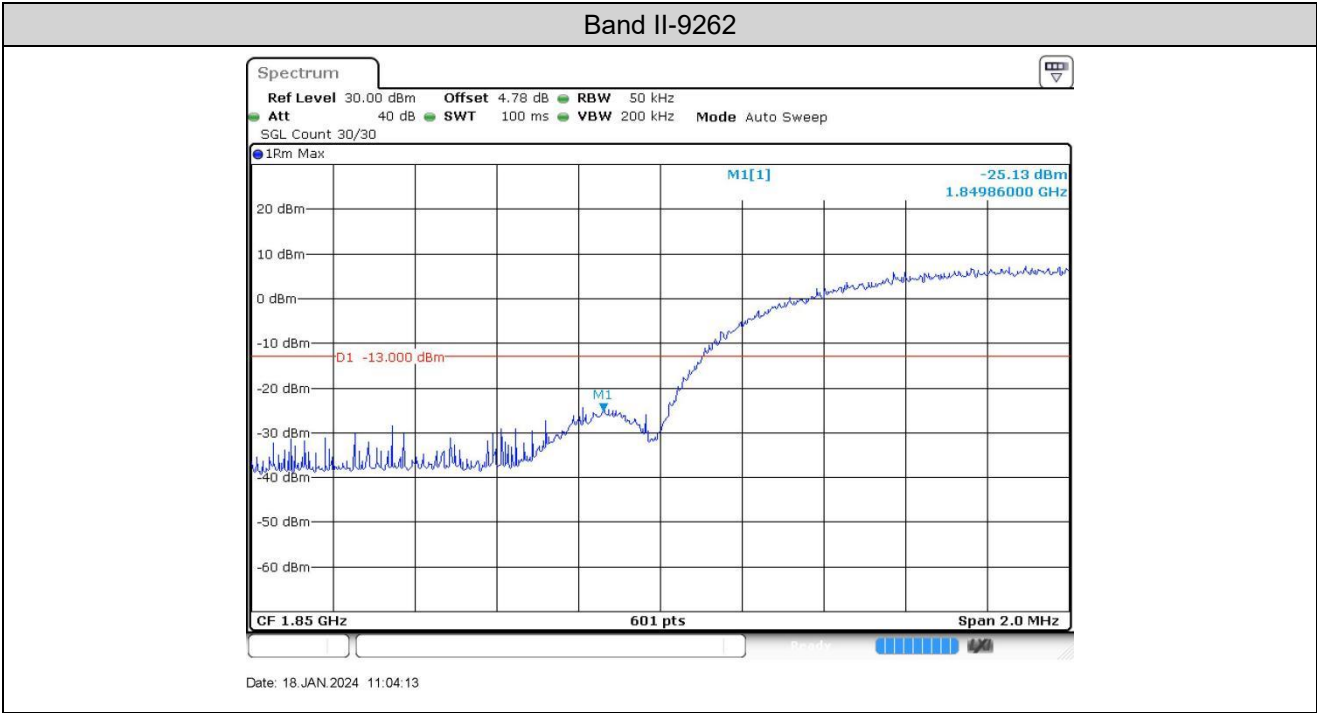


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Band Edge

Test Graphs



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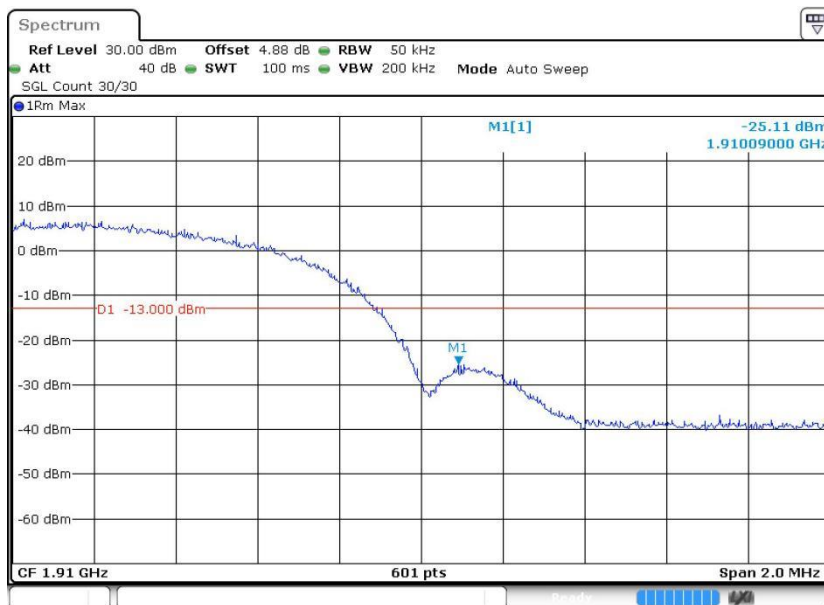
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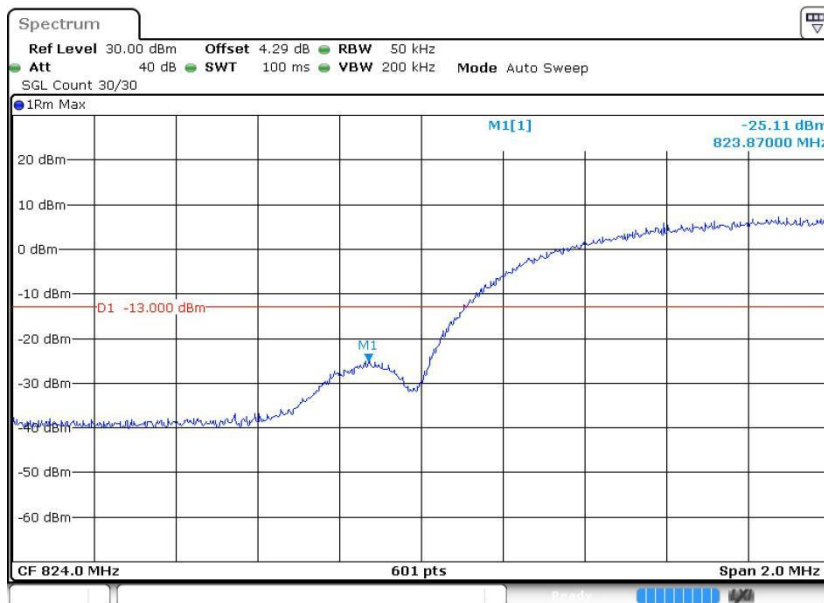
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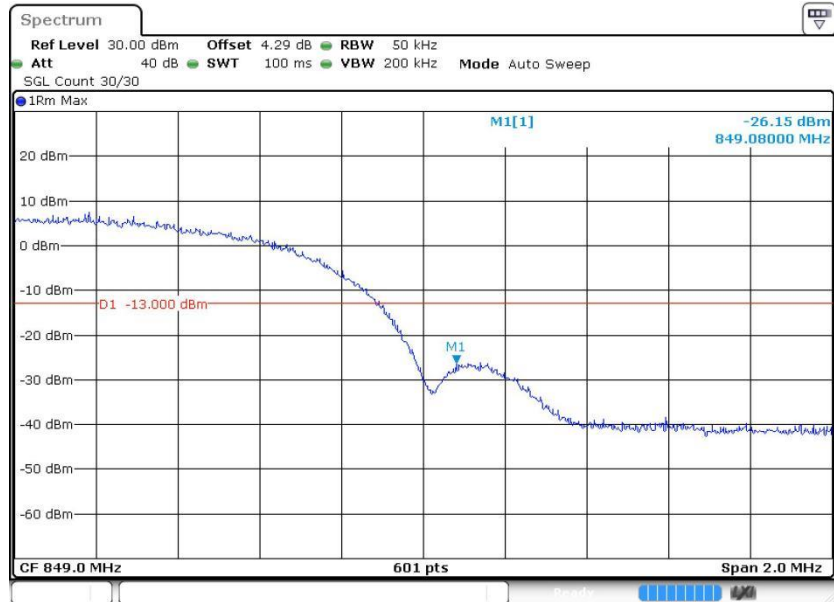
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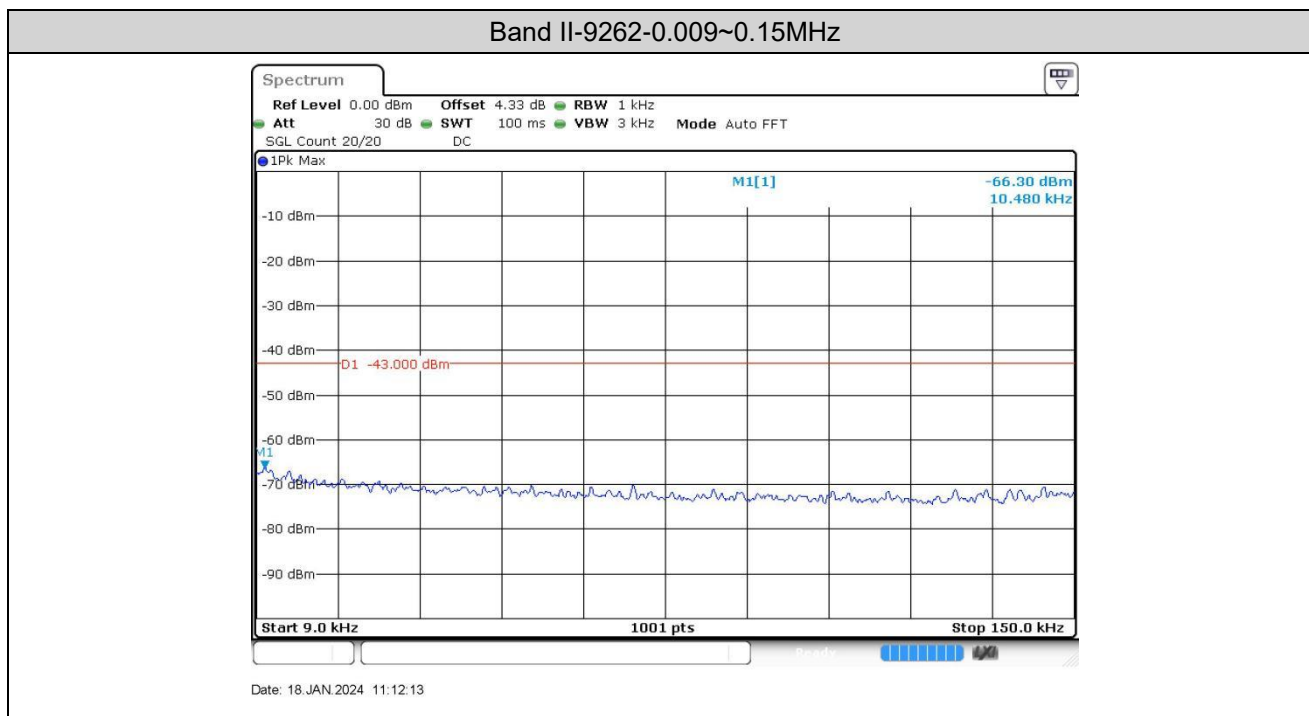


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Conducted Spurious Emission

Test Graphs



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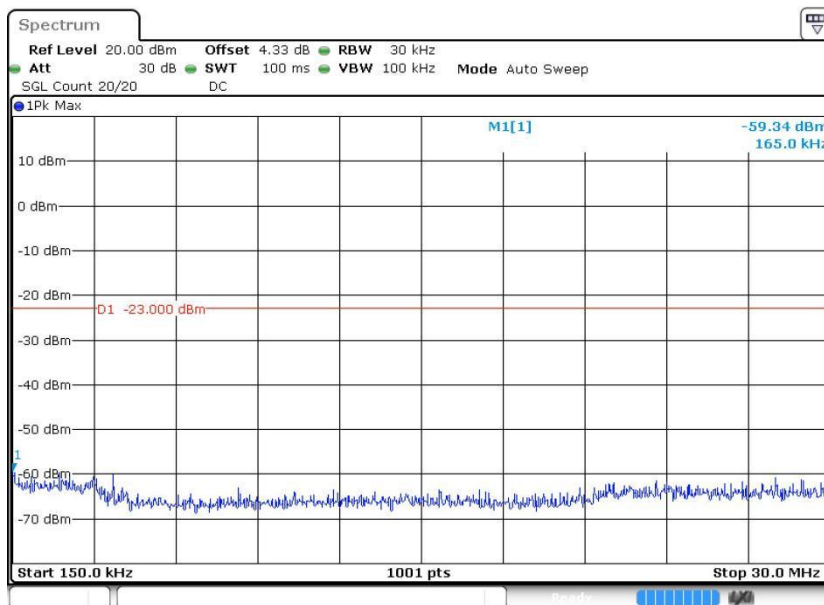
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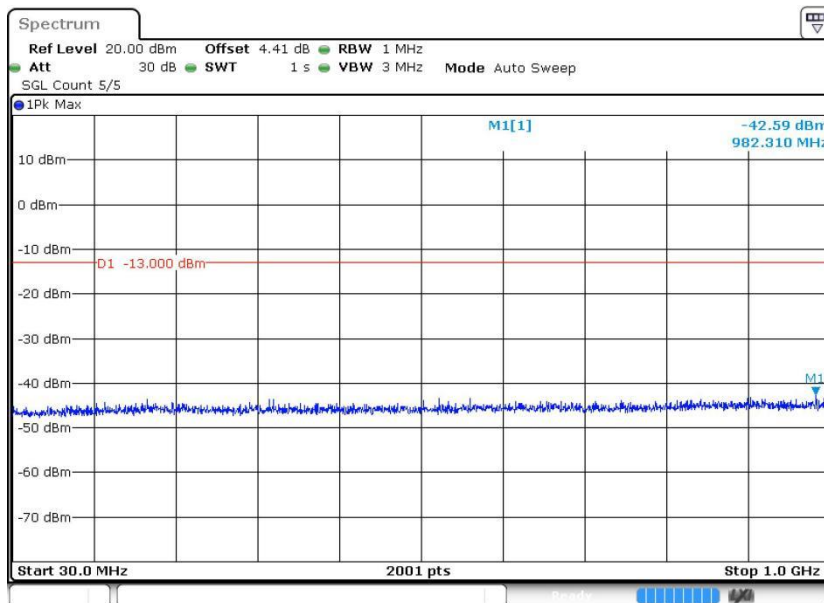
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Band II-9262-0.15~30MHz



Date: 18 JAN 2024 11:12:18

Band II-9262-30~1000MHz



Date: 18 JAN 2024 11:12:25

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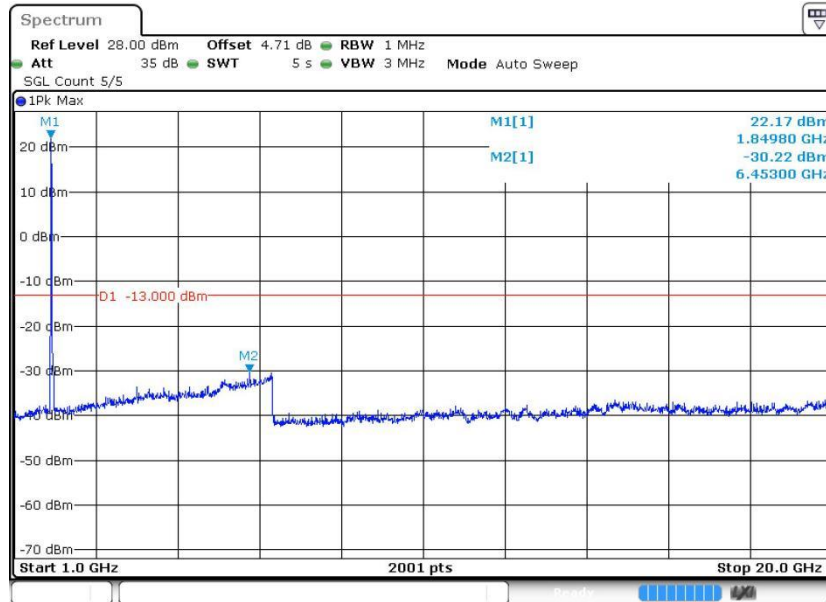
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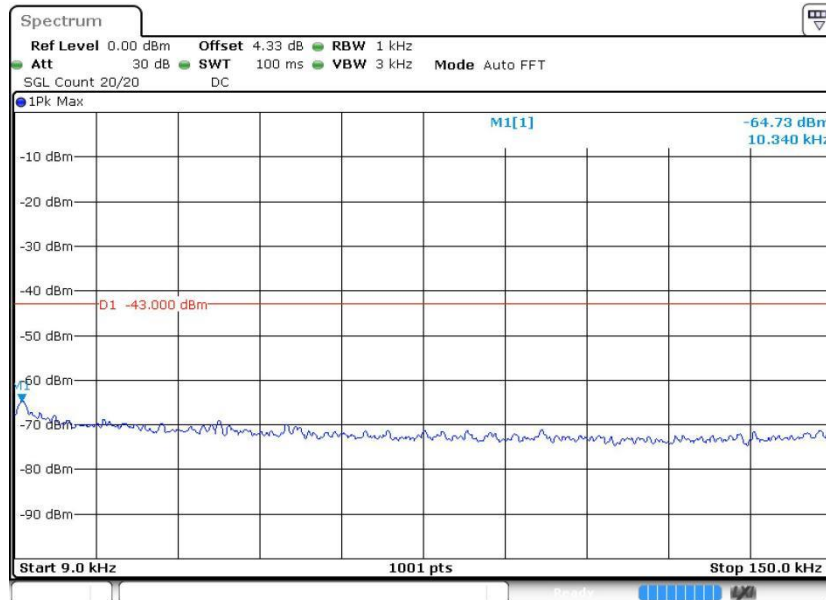
Report No.: ZEWM2312001976RG01
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Band II-9262-1000~20000MHz



Date: 18 JAN 2024 11:12:54

Band II-9400-0.009~0.15MHz



Date: 18 JAN 2024 11:13:07



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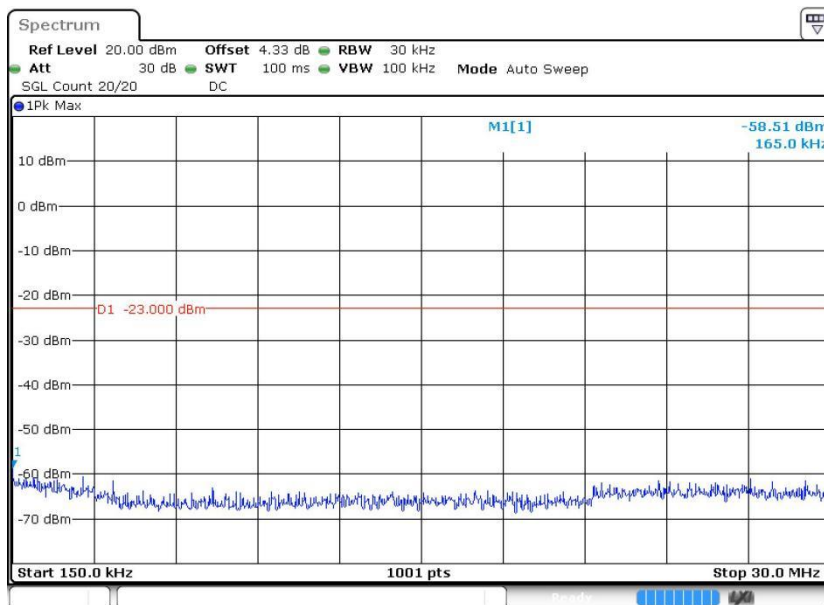
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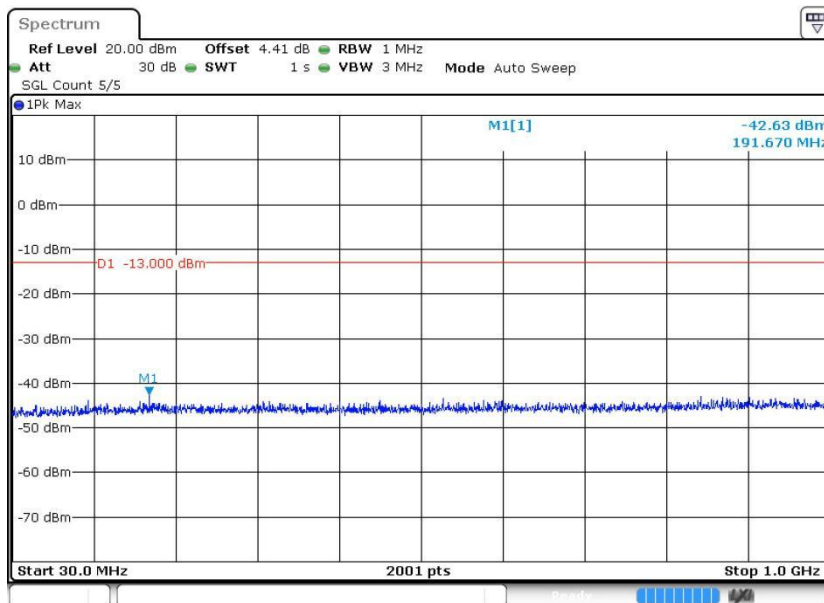
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Band II-9400-0.15~30MHz



Date: 18 JAN 2024 11:13:11

Band II-9400-30~1000MHz



Date: 18 JAN 2024 11:13:19



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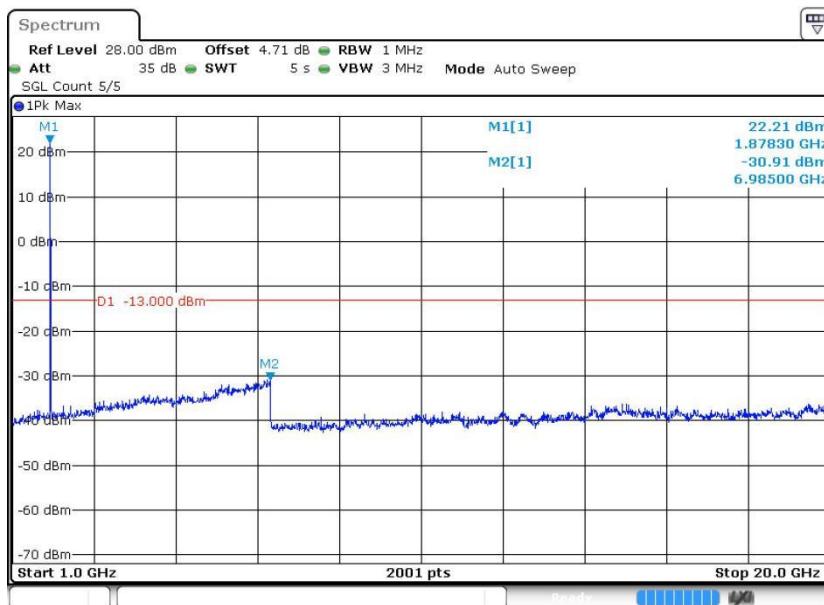
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Rev.: 01

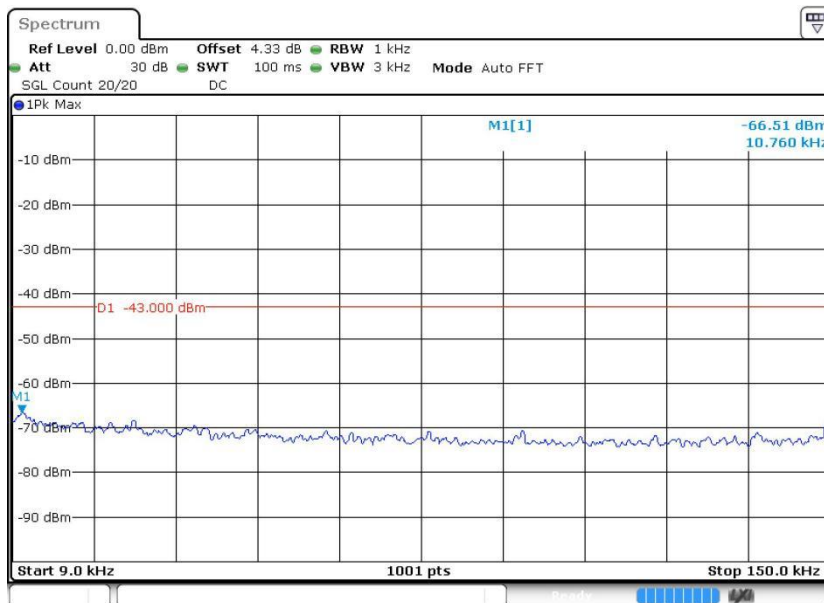
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Band II-9400-1000~20000MHz



Date: 18 JAN 2024 11:13:48

Band II-9538-0.009~0.15MHz



Date: 18 JAN 2024 11:14:01



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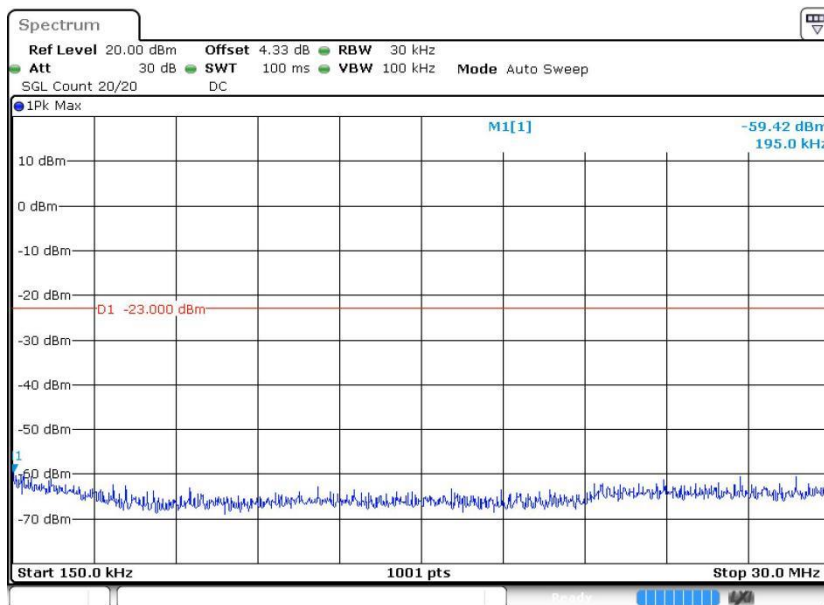
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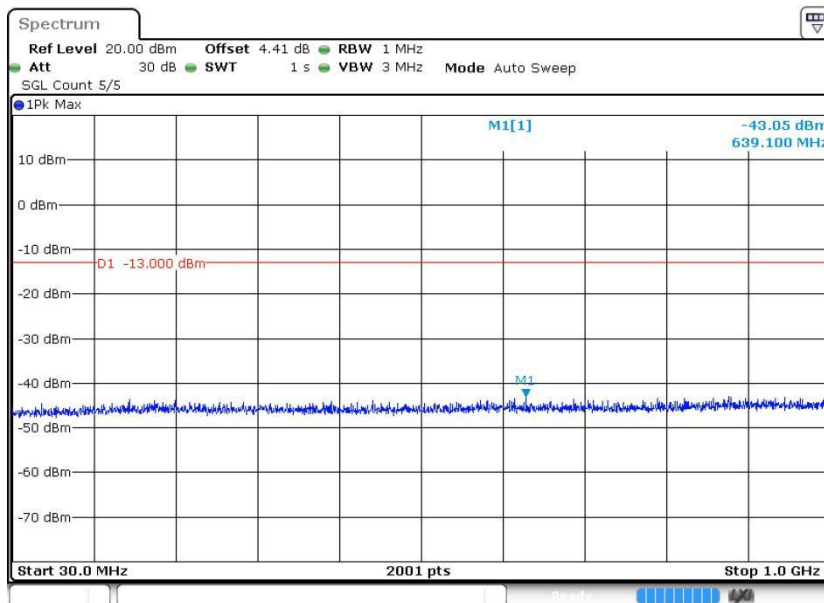
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Band II-9538-0.15~30MHz



Date: 18 JAN 2024 11:14:05

Band II-9538-30~1000MHz



Date: 18 JAN 2024 11:14:13

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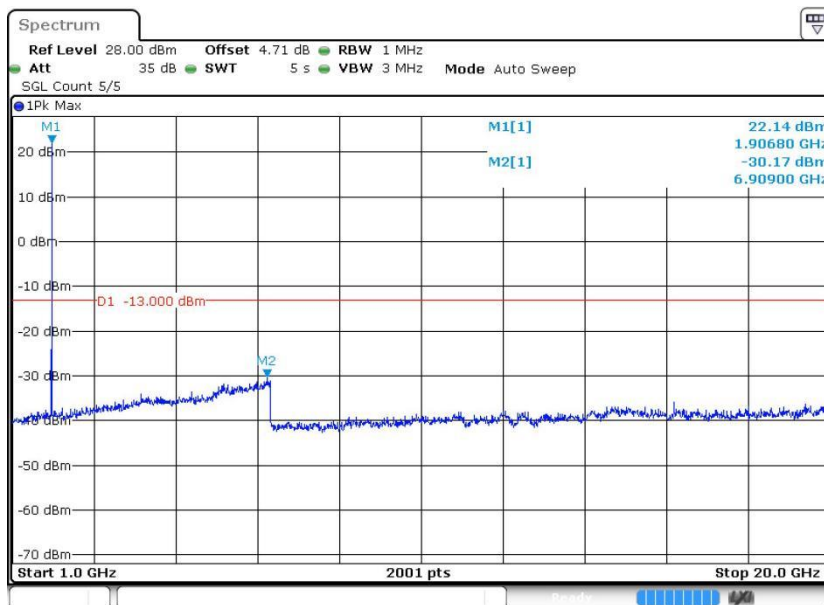
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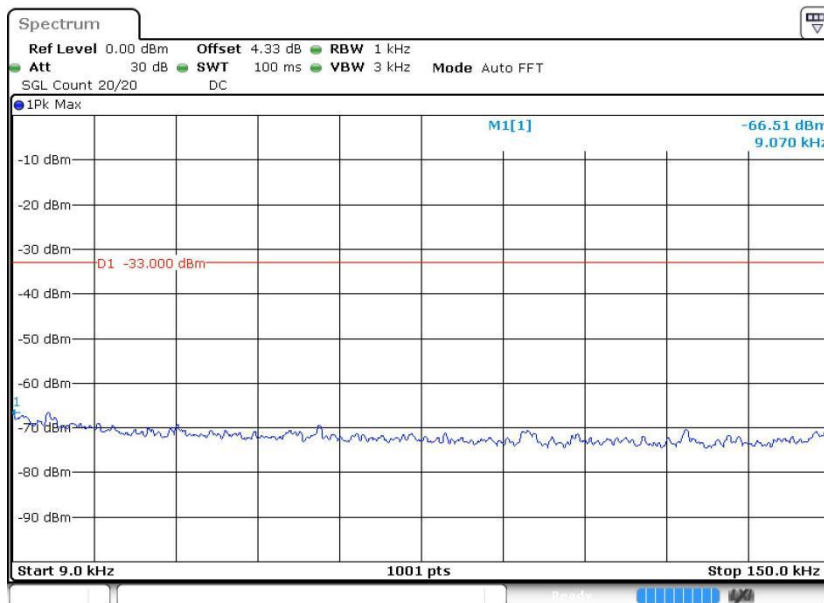
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Band II-9538-1000~20000MHz



Date: 18 JAN 2024 11:14:42

Band V-4132-0.009~0.15MHz



Date: 18 JAN 2024 11:15:01



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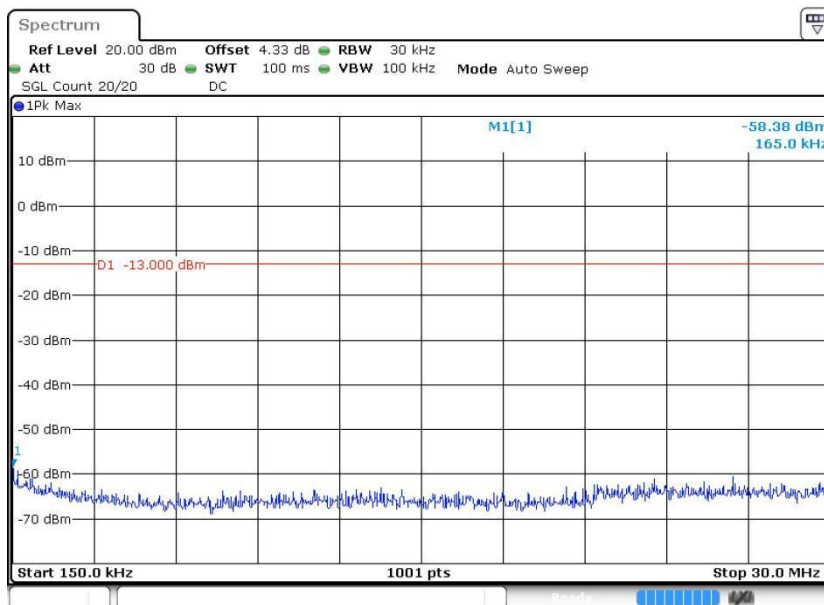
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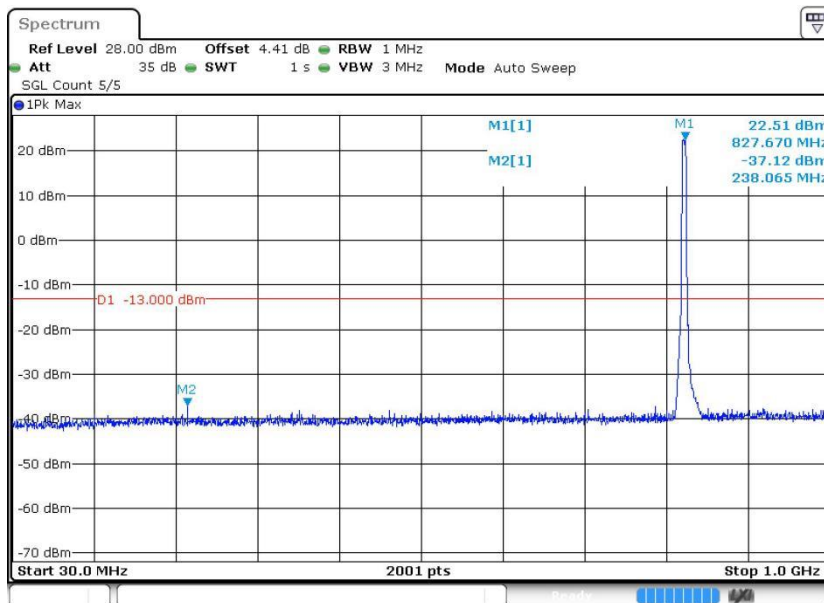
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Band V-4132-0.15~30MHz



Date: 18 JAN 2024 11:15:06

Band V-4132-30~1000MHz



Date: 18 JAN 2024 11:15:13



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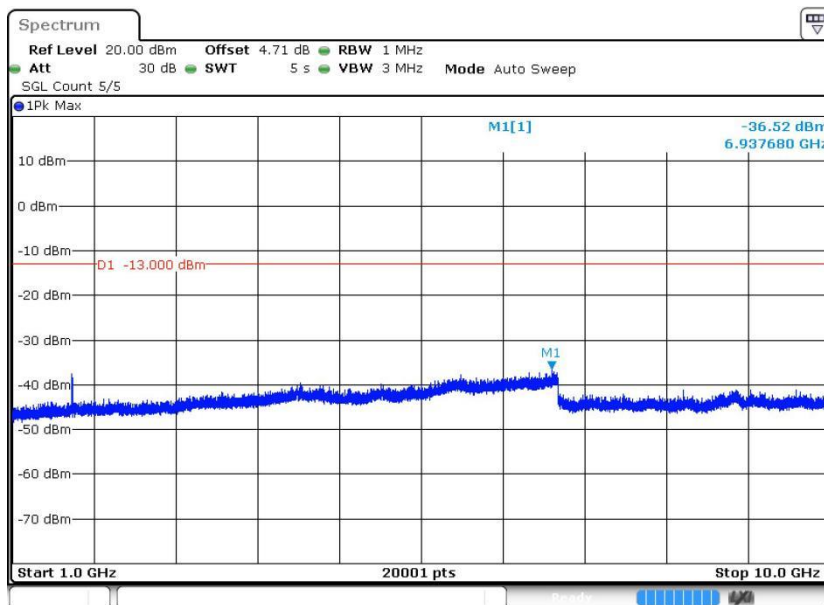
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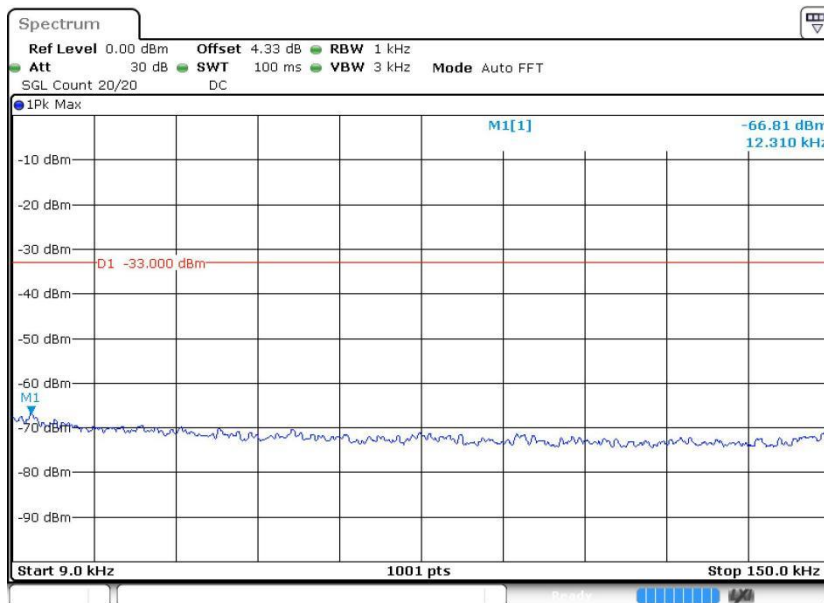
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Band V-4132-1000~10000MHz



Date: 18 JAN 2024 11:15:42

Band V-4182-0.009~0.15MHz



Date: 18 JAN 2024 11:15:55



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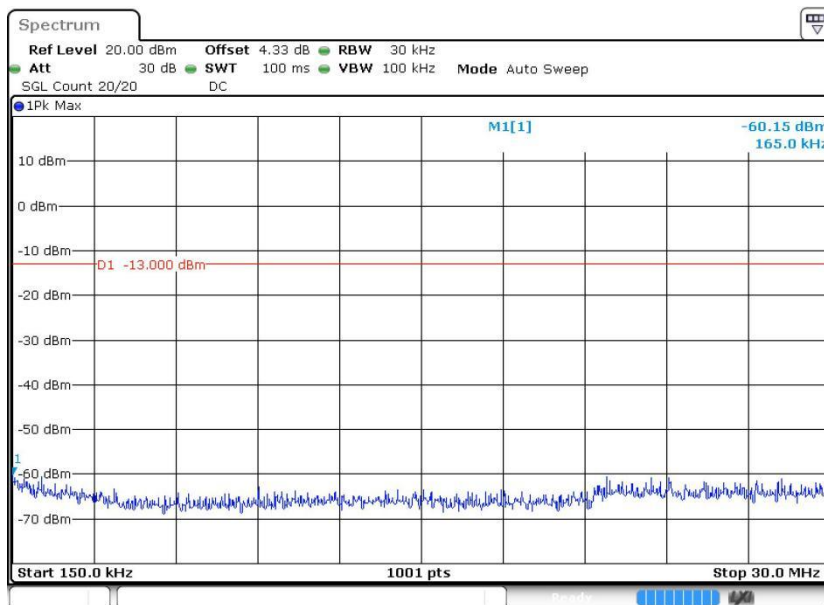
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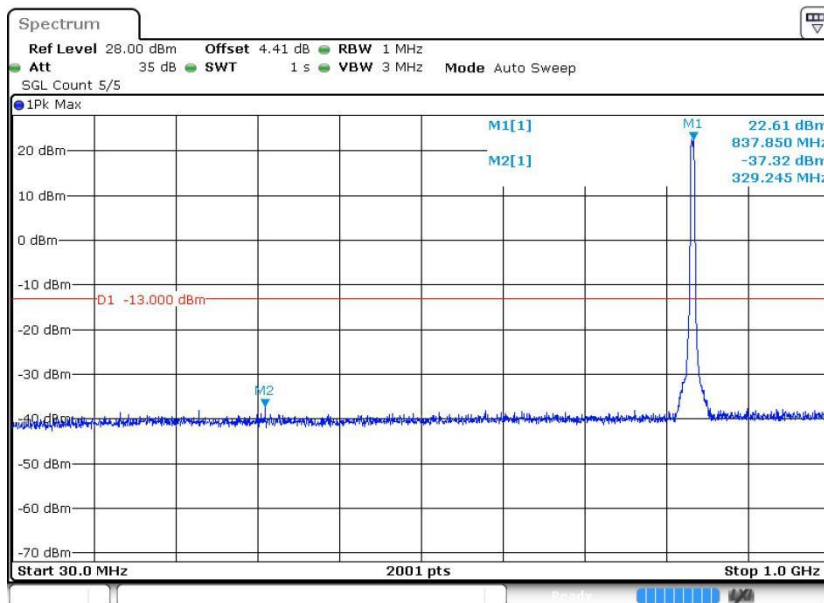
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Band V-4182-0.15~30MHz



Date: 18 JAN 2024 11:16:00

Band V-4182-30~1000MHz



Date: 18 JAN 2024 11:16:08



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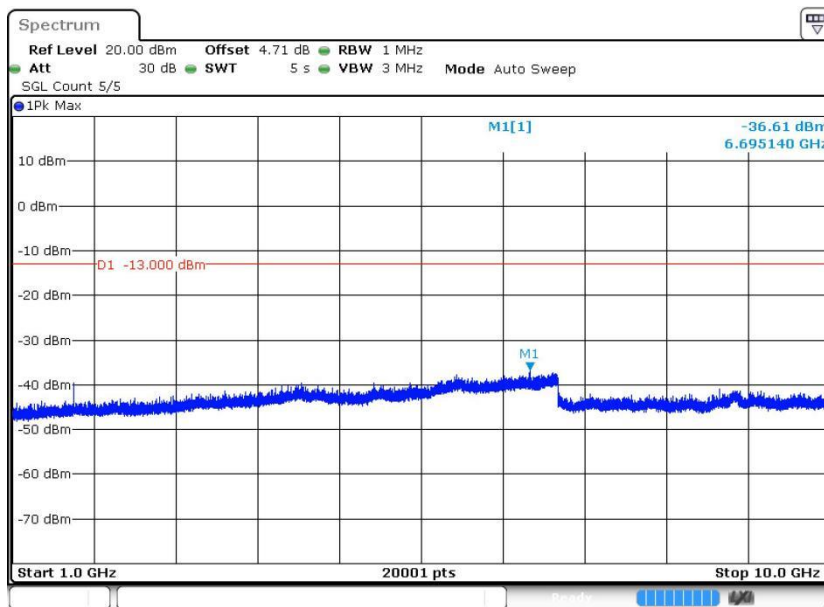
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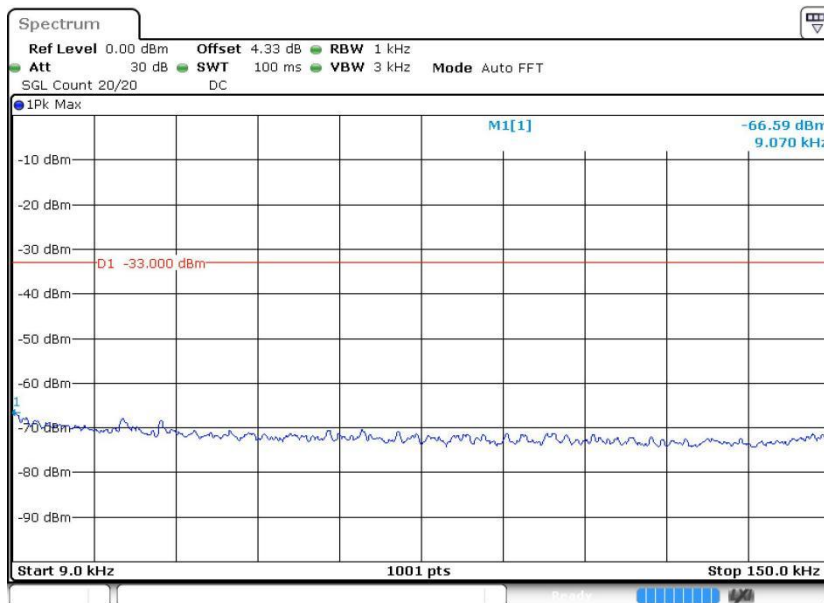
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Band V-4182-1000~10000MHz



Date: 18 JAN. 2024 11:16:36

Band V-4233-0.009~0.15MHz



Date: 18 JAN. 2024 11:16:49



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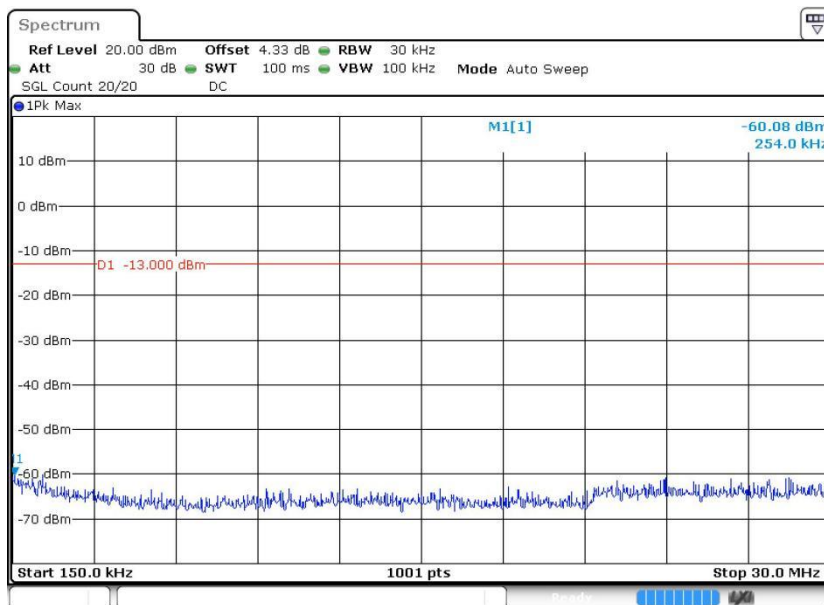
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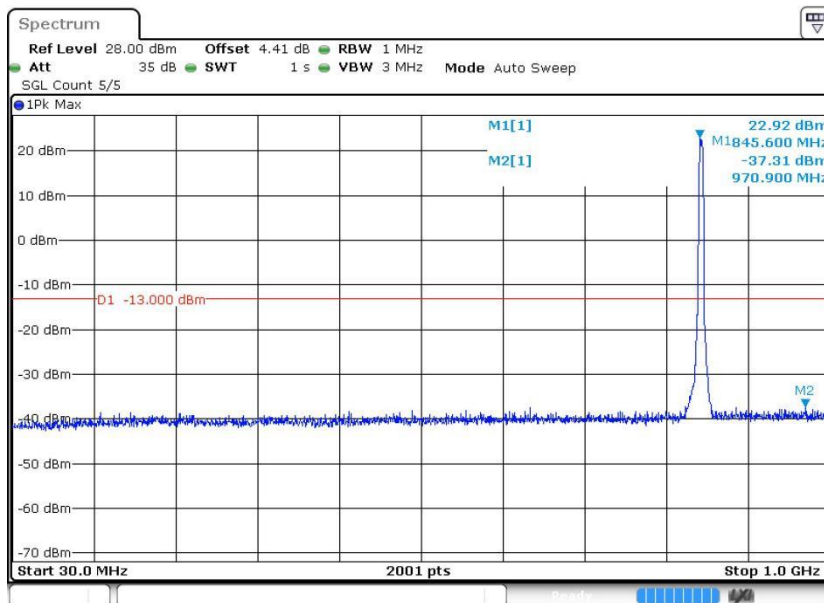
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Band V-4233-0.15~30MHz



Date: 18 JAN 2024 11:16:54

Band V-4233-30~1000MHz



Date: 18 JAN 2024 11:17:02

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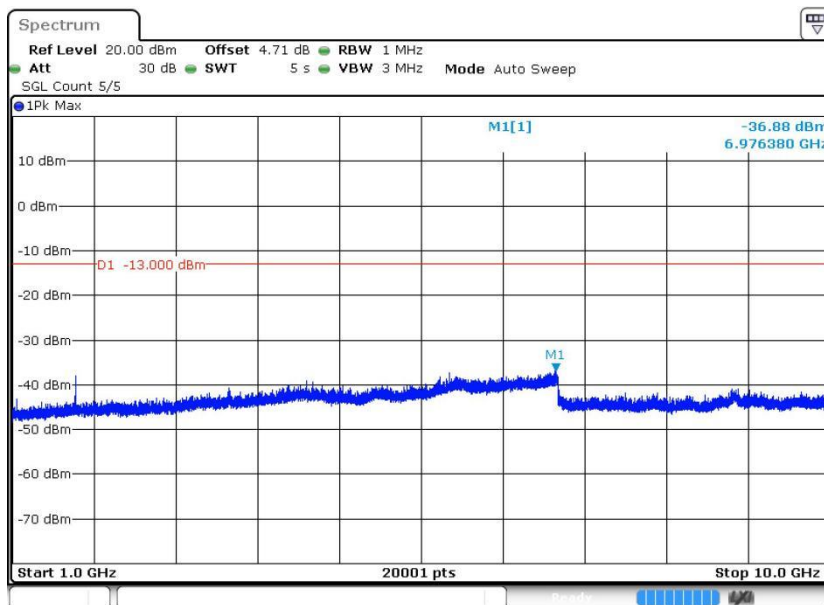
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Band V-4233-1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = Band II_ TM1

Test Channel = low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.6281	65.51	29.02	-47.47	-48.20	-13.00	35.20	Horizontal
2	5554.3022	56.29	32.58	-47.04	-53.43	-13.00	40.43	Horizontal
3	7413.1765	57.70	36.30	-45.07	-46.33	-13.00	33.33	Horizontal
4	9262.0000	40.53	36.70	-42.42	-60.45	-13.00	47.45	Horizontal
5	11114.4000	38.14	39.62	-39.32	-56.82	-13.00	43.82	Horizontal
6	12966.8000	37.15	39.70	-38.63	-57.04	-13.00	44.04	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.6281	57.54	29.02	-47.47	-56.17	-13.00	43.17	Vertical
2	5553.7021	59.29	32.58	-47.04	-50.43	-13.00	37.43	Vertical
3	7412.5765	50.74	36.30	-45.07	-53.29	-13.00	40.29	Vertical
4	9262.0000	41.02	36.70	-42.42	-59.96	-13.00	46.96	Vertical
5	11114.4000	37.61	39.62	-39.32	-57.35	-13.00	44.35	Vertical
6	12966.8000	36.97	39.70	-38.63	-57.22	-13.00	44.22	Vertical



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Test Band = Band II_ TM1
Test Channel = mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.4305	63.62	29.12	-47.31	-49.83	-13.00	36.83	Horizontal
2	5642.5057	52.84	32.54	-46.86	-56.74	-13.00	43.74	Horizontal
3	7522.9809	55.39	36.39	-44.98	-48.46	-13.00	35.46	Horizontal
4	9400.0000	40.38	37.02	-41.56	-59.42	-13.00	46.42	Horizontal
5	11280.0000	38.35	39.66	-39.28	-56.53	-13.00	43.53	Horizontal
6	13160.0000	37.40	39.99	-38.47	-56.34	-13.00	43.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3761.4305	57.18	29.12	-47.31	-56.27	-13.00	43.27	Vertical
2	5642.5057	61.47	32.54	-46.86	-48.11	-13.00	35.11	Vertical
3	7519.9808	52.54	36.39	-45.00	-51.33	-13.00	38.33	Vertical
4	9400.0000	40.90	37.02	-41.56	-58.90	-13.00	45.90	Vertical
5	11280.0000	37.80	39.66	-39.28	-57.08	-13.00	44.08	Vertical
6	13160.0000	37.35	39.99	-38.47	-56.39	-13.00	43.39	Vertical



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Test Band = Band II_ TM1

Test Channel = high channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.0326	65.28	29.21	-47.19	-47.96	-13.00	35.46	Horizontal
2	5719.3088	59.30	32.51	-46.77	-50.22	-13.00	37.72	Horizontal
3	7630.3852	58.68	36.35	-44.45	-44.68	-13.00	32.18	Horizontal
4	9538.0000	40.12	37.34	-41.98	-59.78	-13.00	46.78	Horizontal
5	11445.6000	37.63	39.69	-38.84	-56.78	-13.00	43.78	Horizontal
6	13353.2000	37.40	40.34	-38.61	-56.13	-13.00	43.13	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3816.6327	57.49	29.21	-47.19	-55.75	-13.00	42.75	Vertical
2	5724.709	59.78	32.51	-46.78	-49.75	-13.00	36.75	Vertical
3	7629.7852	50.65	36.35	-44.45	-52.71	-13.00	39.71	Vertical
4	9538.0000	39.66	37.34	-41.98	-60.24	-13.00	47.24	Vertical
5	11445.6000	38.03	39.69	-38.84	-56.38	-13.00	43.38	Vertical
6	13353.2000	36.91	40.34	-38.61	-56.62	-13.00	43.62	Vertical



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Test Band = Band V_ TM1
Test Channel = low channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1650.95	62.25	24.90	-48.84	-56.95	-13.00	43.95	Horizontal
2	2476.3875	63.74	27.34	-47.87	-52.05	-13.00	39.05	Horizontal
3	3310.05	56.00	28.66	-47.17	-57.77	-13.00	44.77	Horizontal
4	4136.6625	53.61	29.69	-47.43	-59.39	-13.00	46.39	Horizontal
5	4958.4000	44.69	31.30	-46.97	-66.24	-13.00	53.24	Horizontal
6	5784.8000	44.29	32.49	-46.98	-65.46	-13.00	52.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1654.475	63.87	24.91	-48.84	-55.32	-13.00	42.32	Vertical
2	2481.675	63.26	27.36	-47.85	-52.49	-13.00	39.49	Vertical
3	3309.4625	52.99	28.66	-47.17	-60.78	-13.00	47.78	Vertical
4	4136.6625	51.93	29.69	-47.43	-61.07	-13.00	48.07	Vertical
5	4958.4000	44.15	31.30	-46.97	-66.78	-13.00	53.78	Vertical
6	5784.8000	44.21	32.49	-46.98	-65.54	-13.00	52.54	Vertical



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Test Band = Band V_ TM1
Test Channel = mid channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1674.45	59.91	24.95	-48.81	-59.21	-13.00	46.21	Horizontal
2	2506.9375	65.03	27.42	-47.78	-50.59	-13.00	37.59	Horizontal
3	3342.3625	57.59	28.67	-47.24	-56.24	-13.00	43.24	Horizontal
4	4177.7875	53.91	29.75	-47.23	-58.83	-13.00	45.83	Horizontal
5	5018.4000	44.33	31.44	-46.97	-66.46	-13.00	53.46	Horizontal
6	5854.8000	44.47	32.46	-46.54	-64.87	-13.00	51.87	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1670.925	61.07	24.94	-48.81	-58.06	-13.00	45.06	Vertical
2	2512.8125	62.52	27.43	-47.80	-53.11	-13.00	40.11	Vertical
3	3341.775	53.08	28.67	-47.24	-60.75	-13.00	47.75	Vertical
4	4188.3625	54.57	29.76	-47.18	-58.11	-13.00	45.11	Vertical
5	5018.4000	44.50	31.44	-46.97	-66.29	-13.00	53.29	Vertical
6	5854.8000	44.00	32.46	-46.54	-65.34	-13.00	52.34	Vertical



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Test Band = Band V_ TM1
Test Channel = high channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1690.9	60.78	24.98	-48.78	-58.28	-13.00	45.28	Horizontal
2	2536.9	62.58	27.49	-47.87	-53.06	-13.00	40.06	Horizontal
3	3382.3125	63.07	28.68	-47.32	-50.83	-13.00	37.83	Horizontal
4	4228.9	55.65	29.82	-47.11	-56.90	-13.00	43.90	Horizontal
5	5079.6000	44.50	31.59	-47.05	-66.22	-13.00	53.22	Horizontal
6	5926.2000	43.88	32.43	-46.38	-65.33	-13.00	52.33	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1691.4875	59.75	24.98	-48.78	-59.31	-13.00	46.31	Vertical
2	2536.9	61.25	27.49	-47.87	-54.39	-13.00	41.39	Vertical
3	3389.95	57.45	28.68	-47.34	-56.47	-13.00	43.47	Vertical
4	4228.9	55.53	29.82	-47.11	-57.02	-13.00	44.02	Vertical
5	5079.6000	44.68	31.59	-47.05	-66.04	-13.00	53.04	Vertical
6	5926.2000	44.29	32.43	-46.38	-64.92	-13.00	51.92	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	-13.08	-0.006957	PASS
Band II	9400	VN	NT	-12.92	-0.006872	PASS
Band II	9400	VH	NT	-13.54	-0.007202	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-9.16	-0.010952	±2.5	PASS
Band V	4182	VN	NT	-12.37	-0.014790	±2.5	PASS
Band V	4182	VH	NT	-7.20	-0.008608	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	-12.95	-0.006888	PASS
Band II	9400	NV	-20	-11.84	-0.006298	PASS
Band II	9400	NV	-10	-13.30	-0.007074	PASS
Band II	9400	NV	0	-12.46	-0.006628	PASS
Band II	9400	NV	10	-10.71	-0.005697	PASS
Band II	9400	NV	20	-11.92	-0.006340	PASS
Band II	9400	NV	30	-11.78	-0.006266	PASS
Band II	9400	NV	40	-10.96	-0.005830	PASS
Band II	9400	NV	50	-12.60	-0.006702	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-8.22	-0.009828	±2.5	PASS
Band V	4182	NV	-20	-8.88	-0.010617	±2.5	PASS
Band V	4182	NV	-10	-8.66	-0.010354	±2.5	PASS
Band V	4182	NV	0	-8.45	-0.010103	±2.5	PASS
Band V	4182	NV	10	-9.01	-0.010772	±2.5	PASS
Band V	4182	NV	20	-11.12	-0.013295	±2.5	PASS
Band V	4182	NV	30	-10.94	-0.013080	±2.5	PASS
Band V	4182	NV	40	-8.38	-0.010019	±2.5	PASS
Band V	4182	NV	50	-8.71	-0.010414	±2.5	PASS

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