

# Appendix B.2

## WCDMA Band II&IV&V



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

#### ANT14

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band II	9262	23.16	21.93	33	PASS
Band II	9400	23.12	21.89	33	PASS
Band II	9538	23.20	21.97	33	PASS

#### ANT14

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band IV	1312	24.37	22.87	30	PASS
Band IV	1413	24.26	22.76	30	PASS
Band IV	1513	24.20	22.70	30	PASS

#### ANT41

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	24.31	16.42	38.5	PASS
Band V	4182	24.40	16.51	38.5	PASS
Band V	4233	24.38	16.49	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	2.8	13	PASS
Band II	9400	2.96	13	PASS
Band II	9538	2.98	13	PASS
Band IV	1312	2.9	13	PASS
Band IV	1413	2.86	13	PASS
Band IV	1513	2.8	13	PASS
Band V	4132	2.82	13	PASS
Band V	4182	2.84	13	PASS
Band V	4233	2.86	13	PASS



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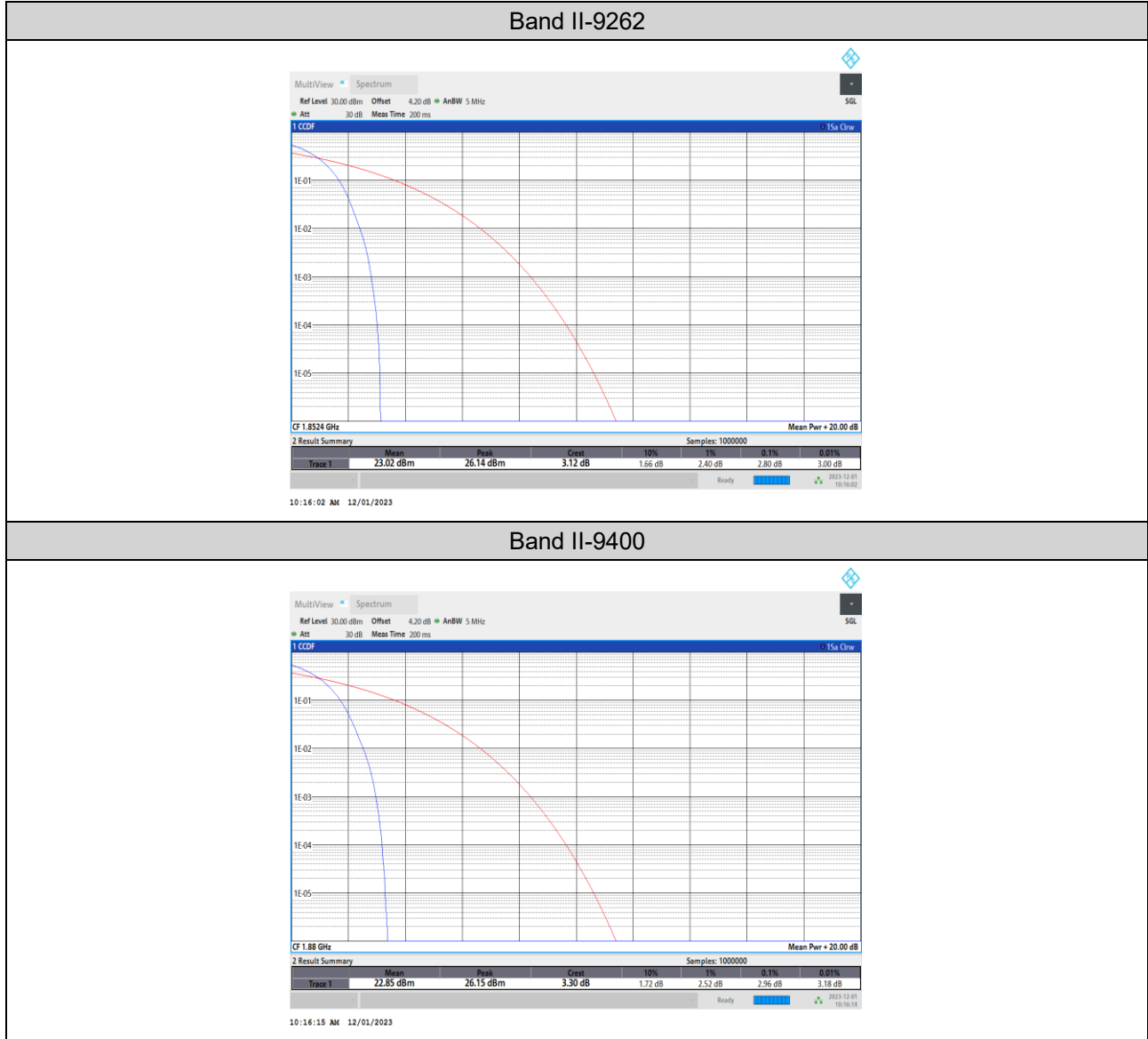
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Test Graphs

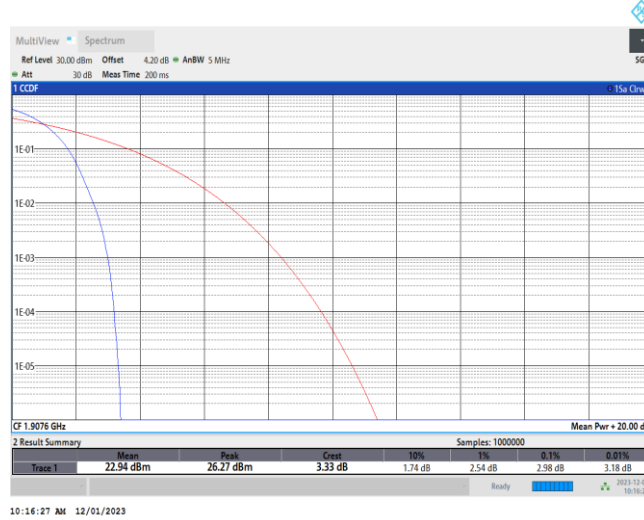


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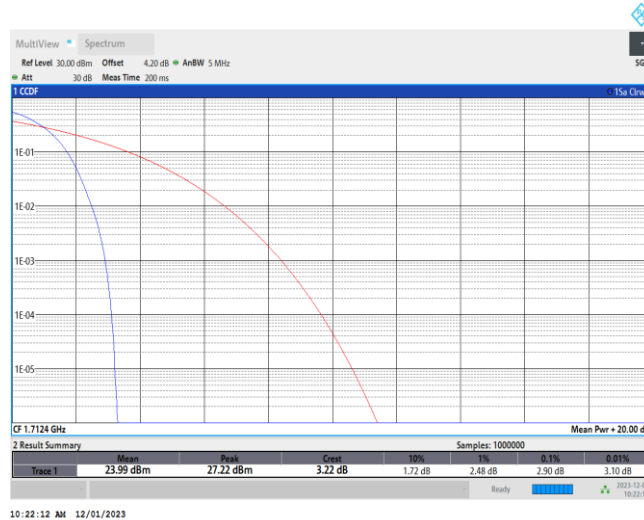
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Band II-9538



Band IV-1312



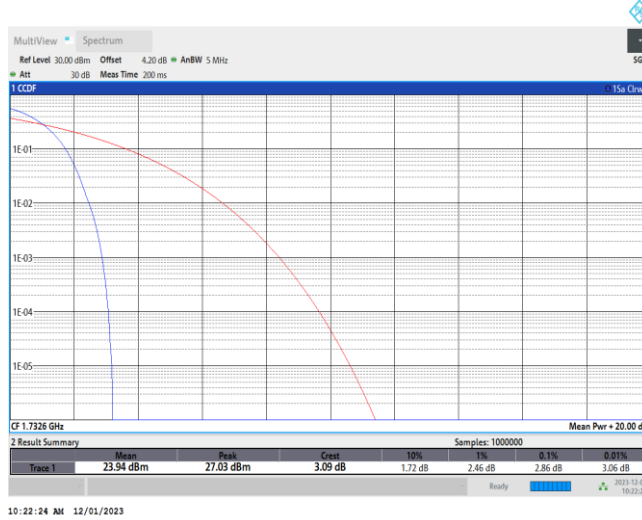
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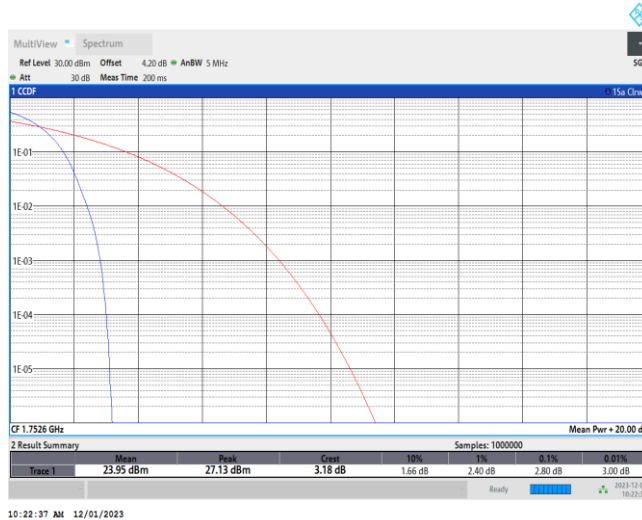
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Band IV-1413



Band IV-1513

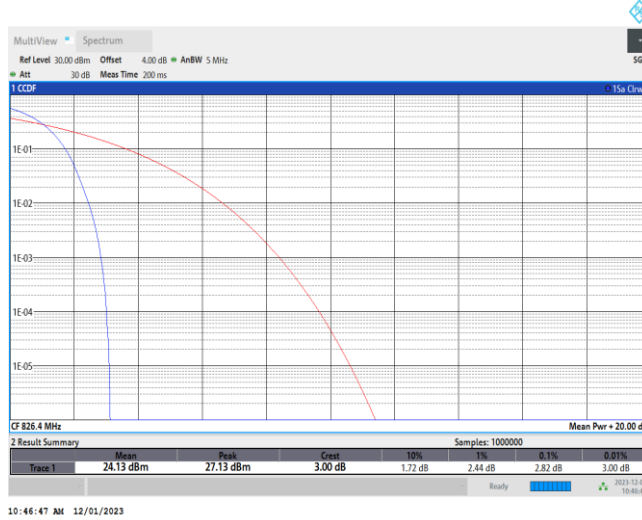


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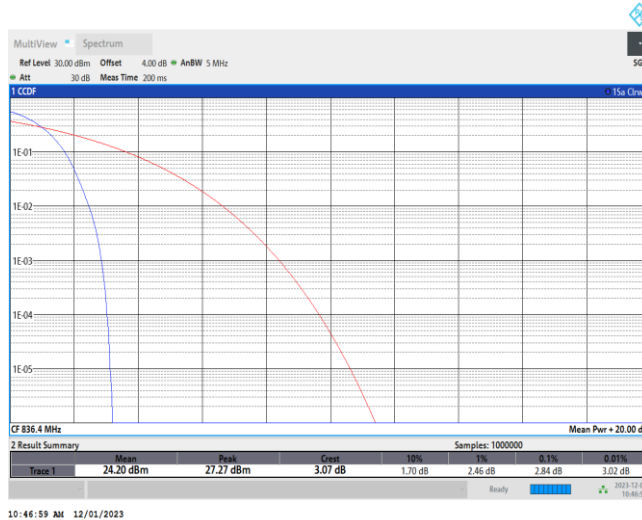
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Band V-4132



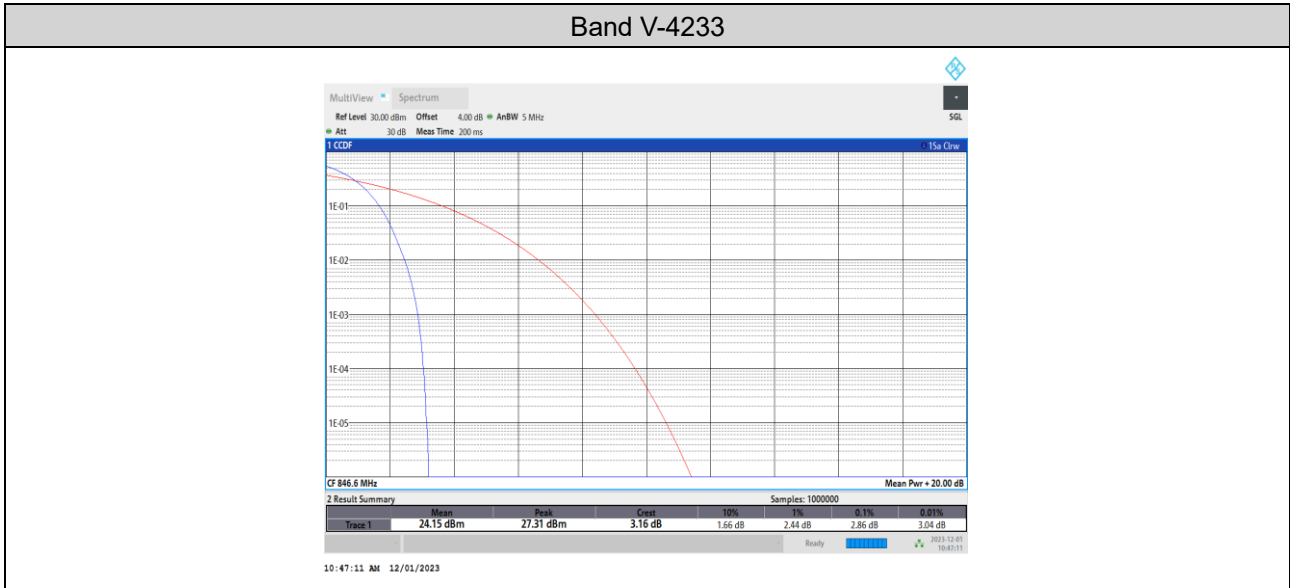
Band V-4182



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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	4.178	4.76	---	PASS
Band II	9400	4.174	4.75	---	PASS
Band II	9538	4.171	4.77	---	PASS
Band IV	1312	4.148	4.73	---	PASS
Band IV	1413	4.151	4.74	---	PASS
Band IV	1513	4.154	4.76	---	PASS
Band V	4132	4.146	4.75	---	PASS
Band V	4182	4.139	4.74	---	PASS
Band V	4233	4.118	4.71	---	PASS



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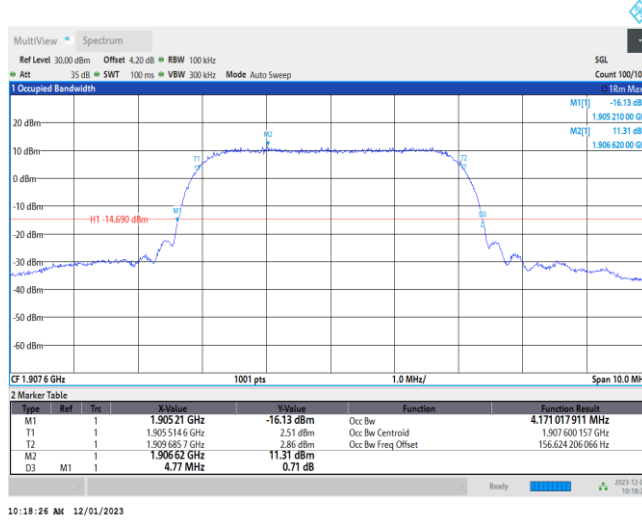


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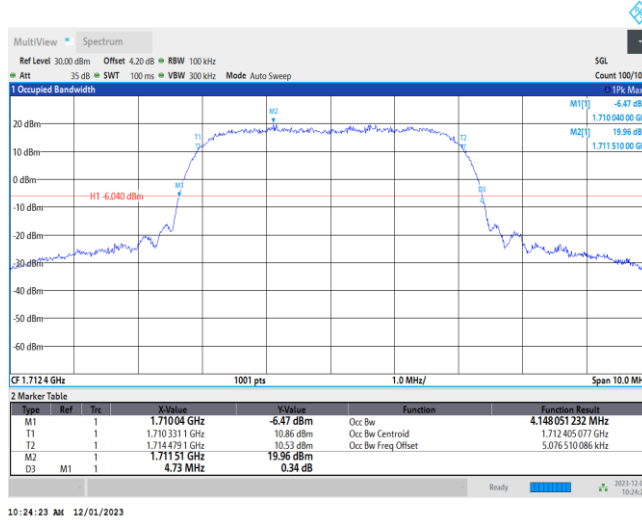
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Band II-9538



Band IV-1312

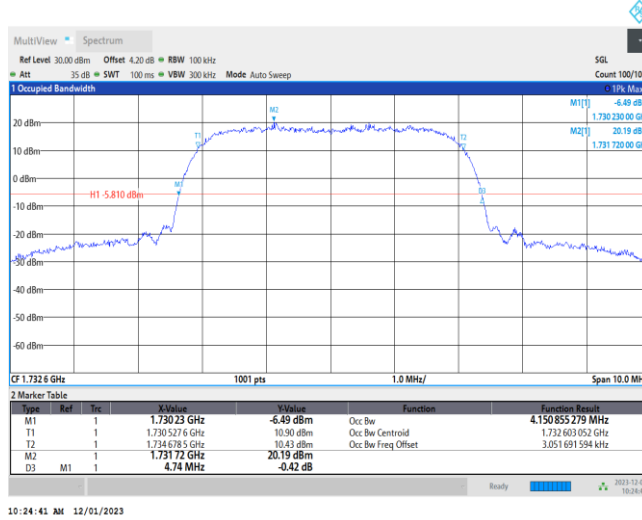


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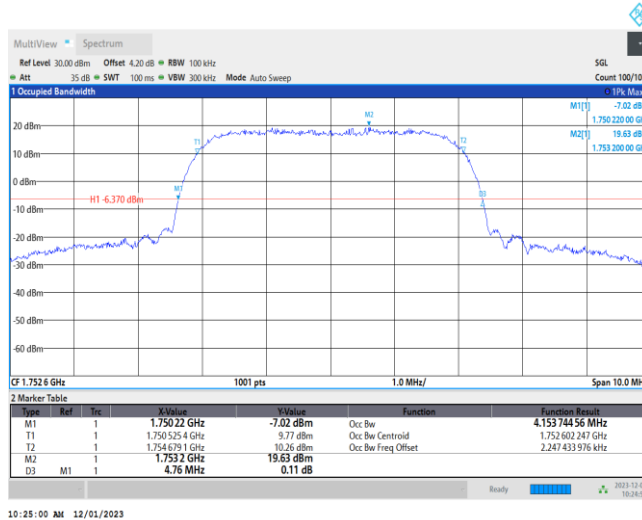
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Band IV-1413



Band IV-1513

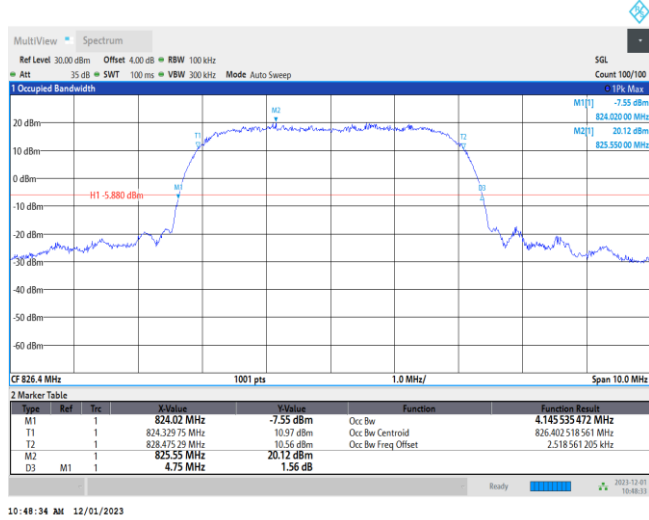


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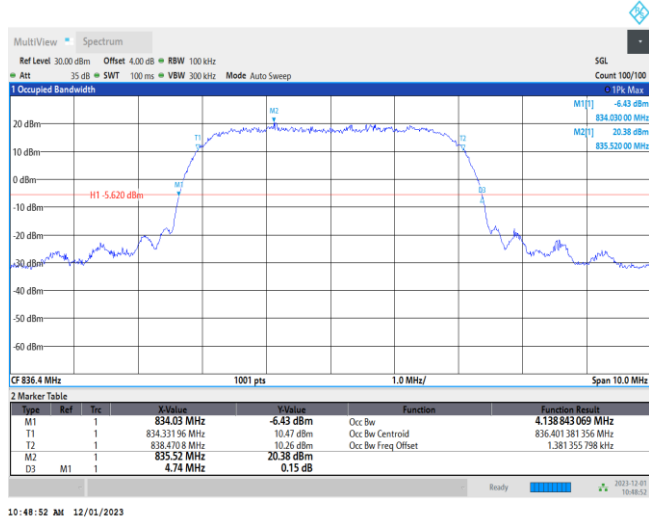
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Band V-4132



Band V-4182

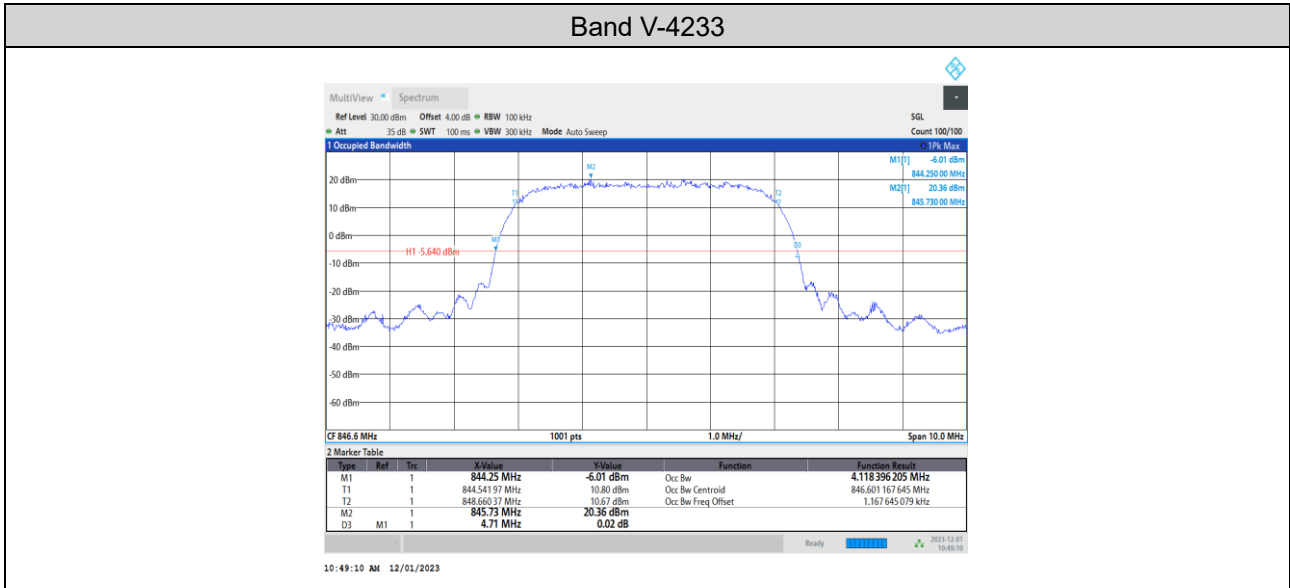


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## Band Edge

## Test Graphs



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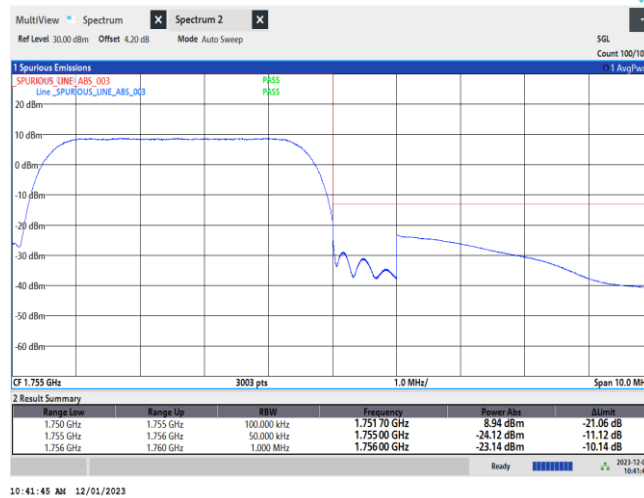
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Band IV-1312



Band IV-1513

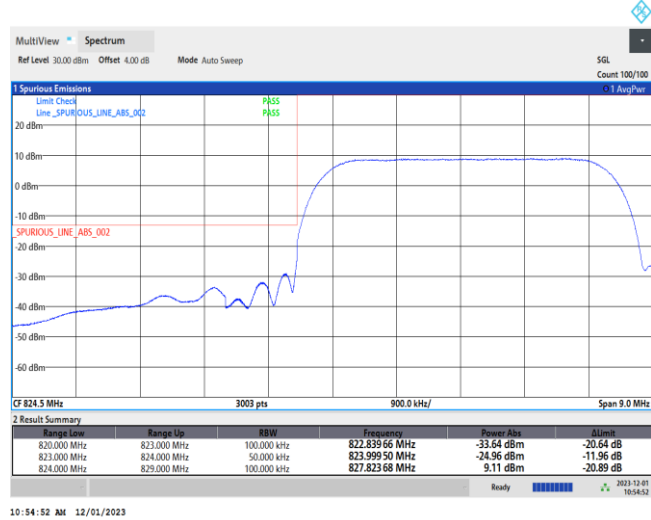


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Band V-4132



Band V-4233



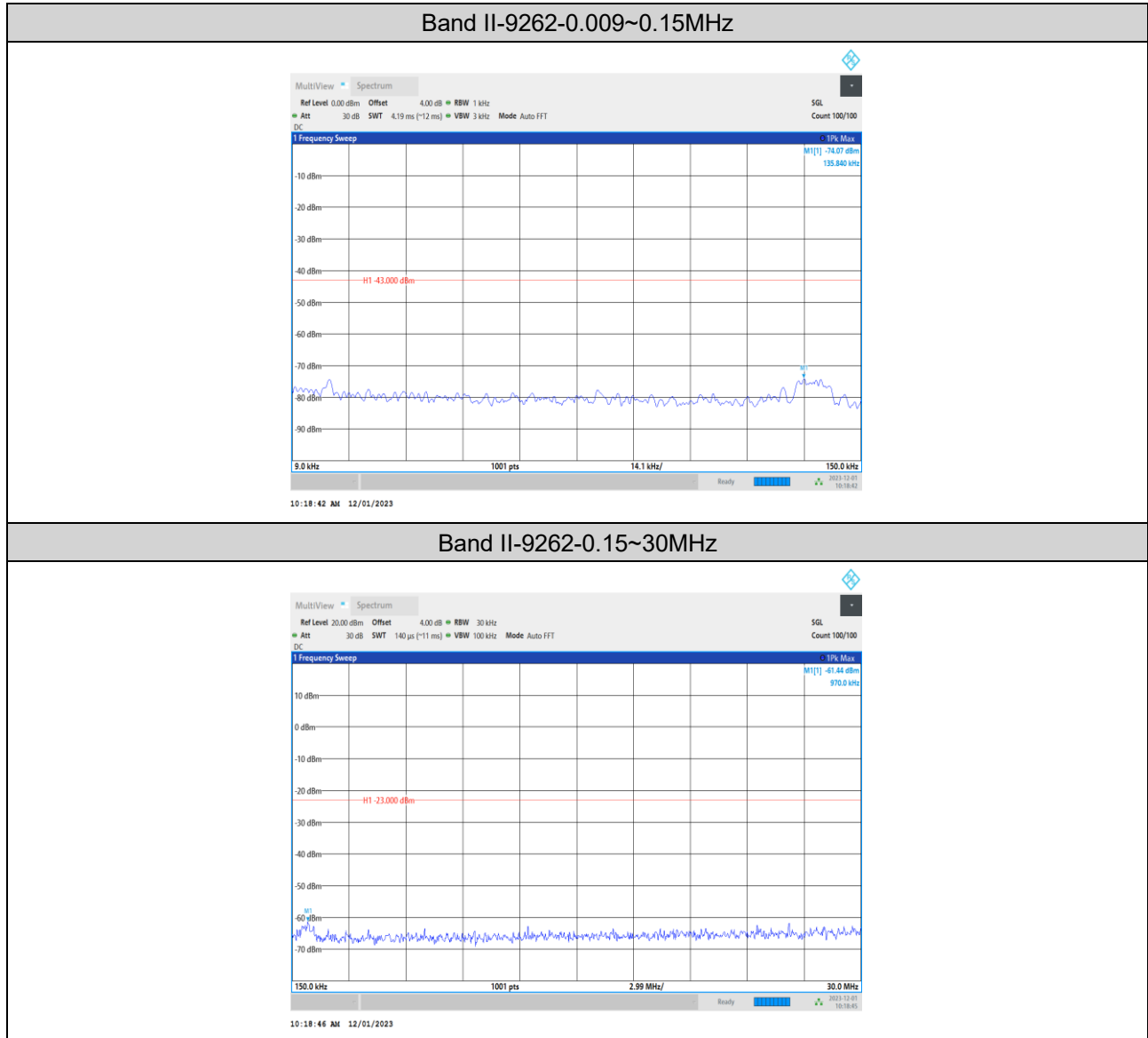
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## Conducted Spurious Emission

### Test Graphs



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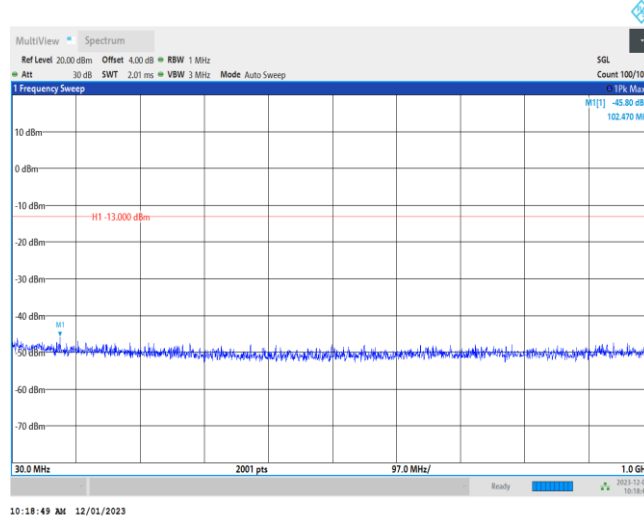
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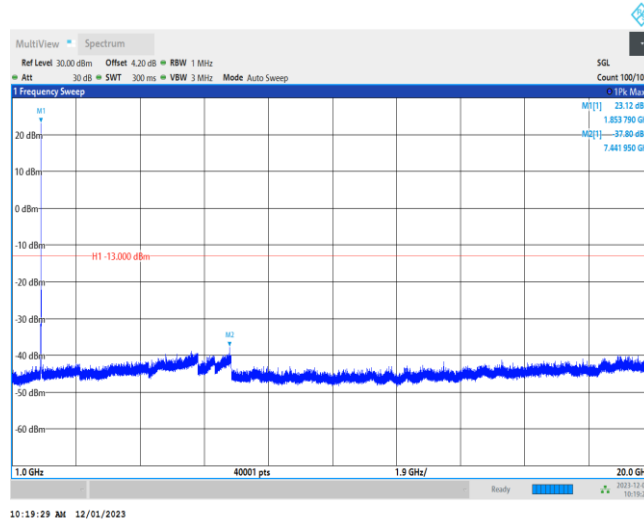
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Band II-9262-30~1000MHz



Band II-9262-1000~20000MHz

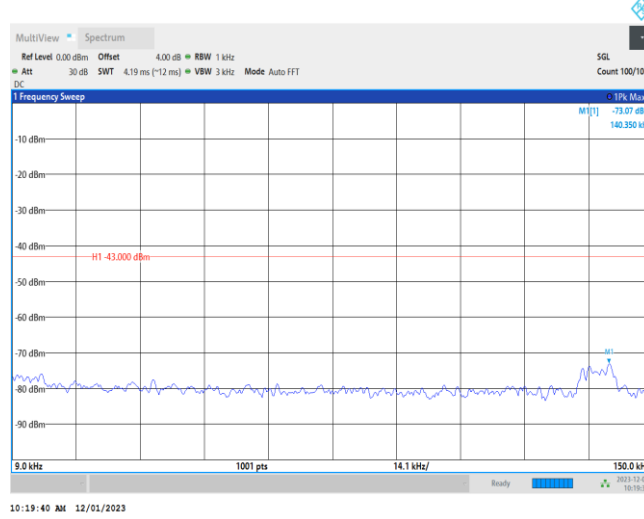


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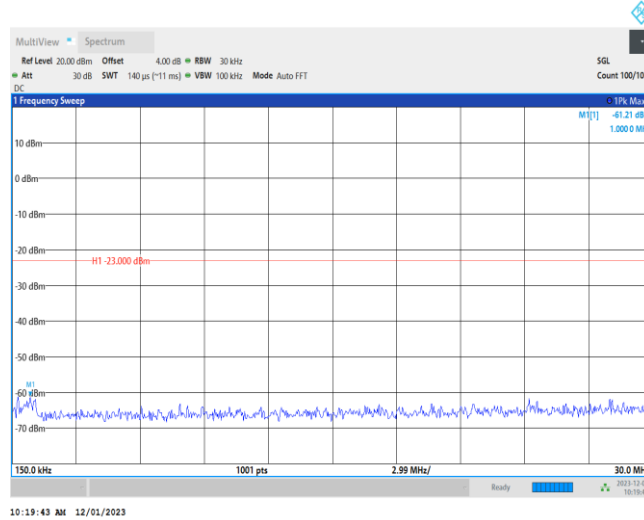
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Band II-9400-0.009~0.15MHz



Band II-9400-0.15~30MHz

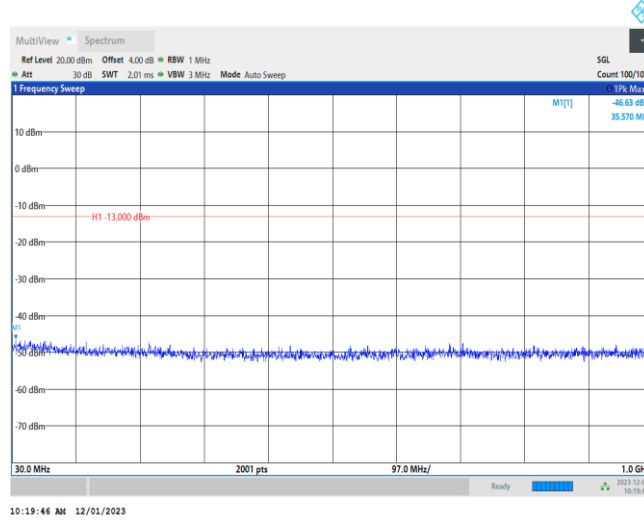


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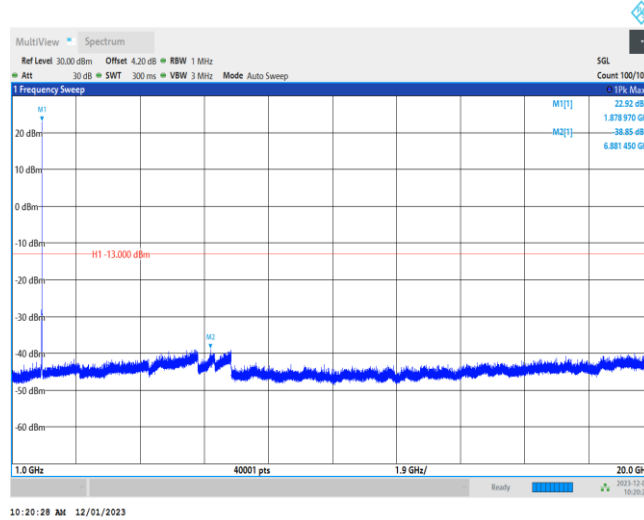
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Band II-9400-30~1000MHz



Band II-9400-1000~20000MHz

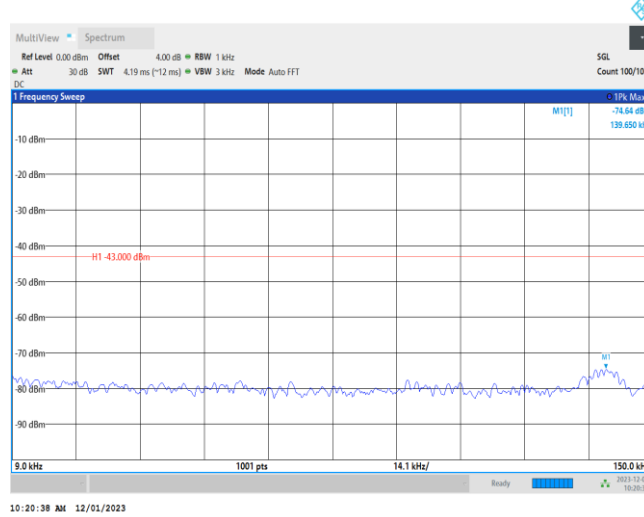


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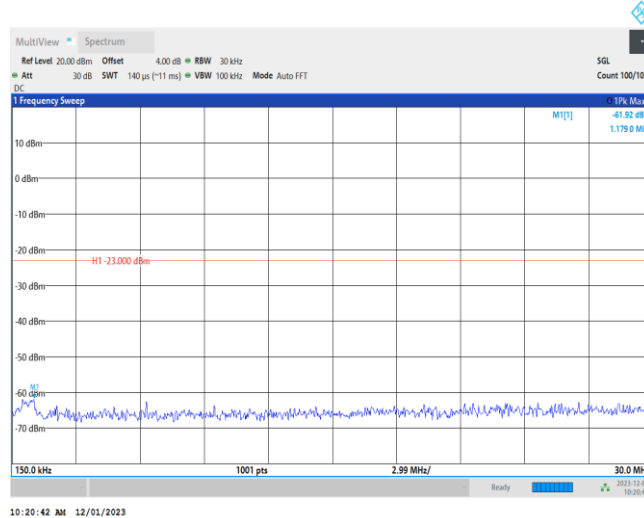
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Band II-9538-0.009~0.15MHz



Band II-9538-0.15~30MHz



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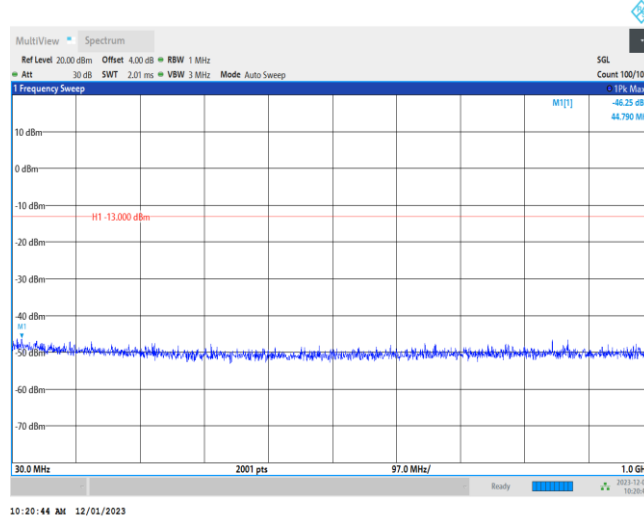
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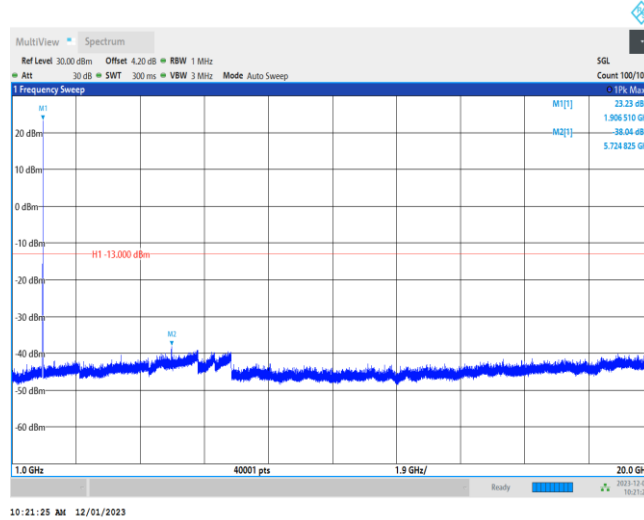
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Band II-9538-30~1000MHz



Band II-9538-1000~20000MHz



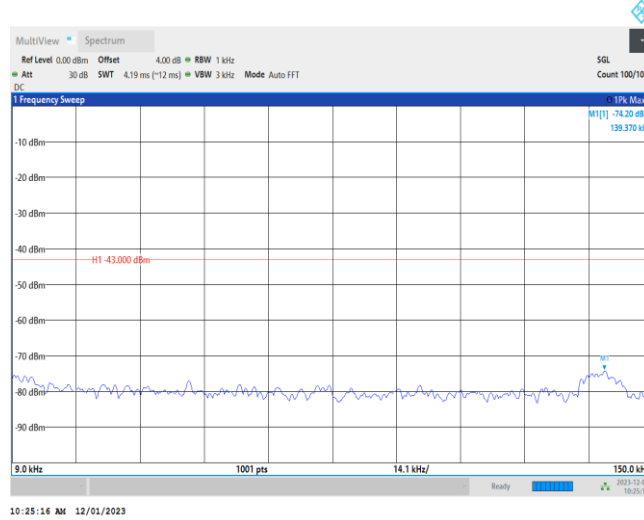
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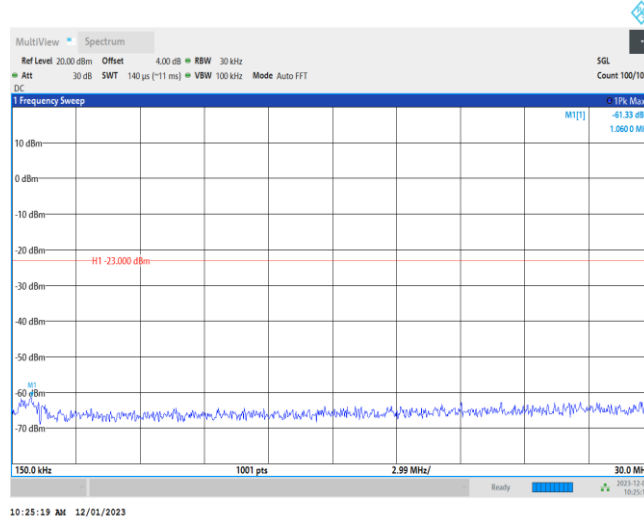
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Band IV-1312-0.009~0.15MHz



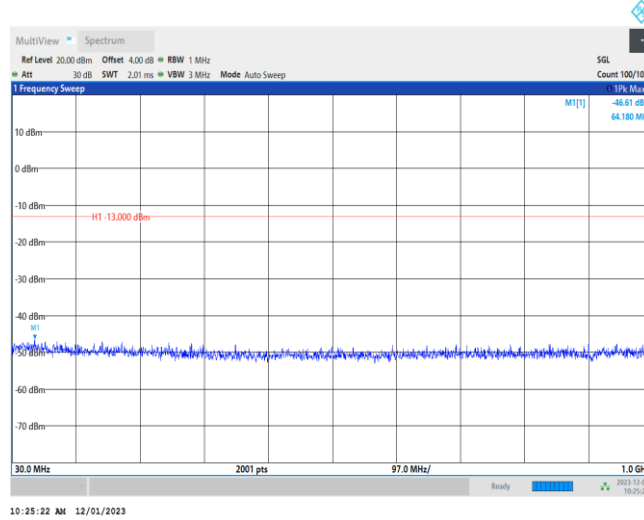
Band IV-1312-0.15~30MHz



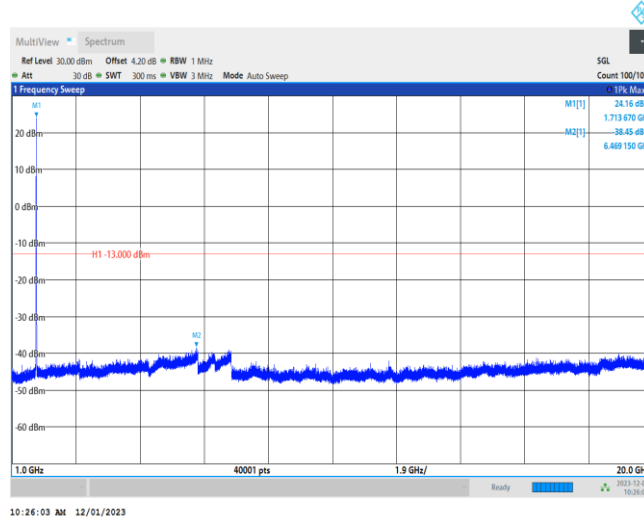
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Band IV-1312-30~1000MHz



Band IV-1312-1000~20000MHz

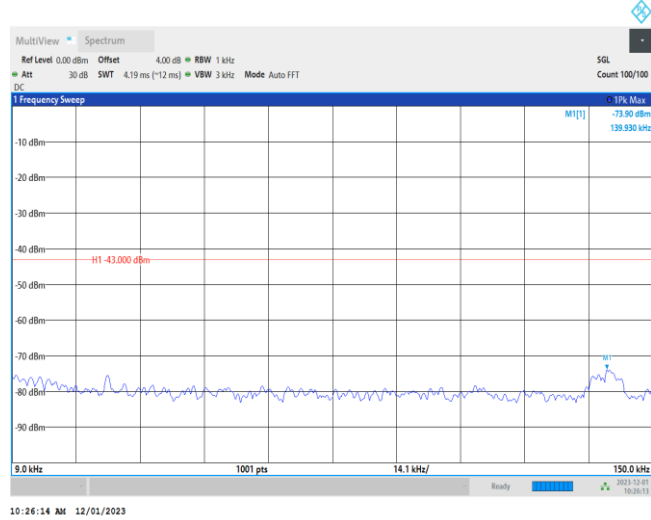


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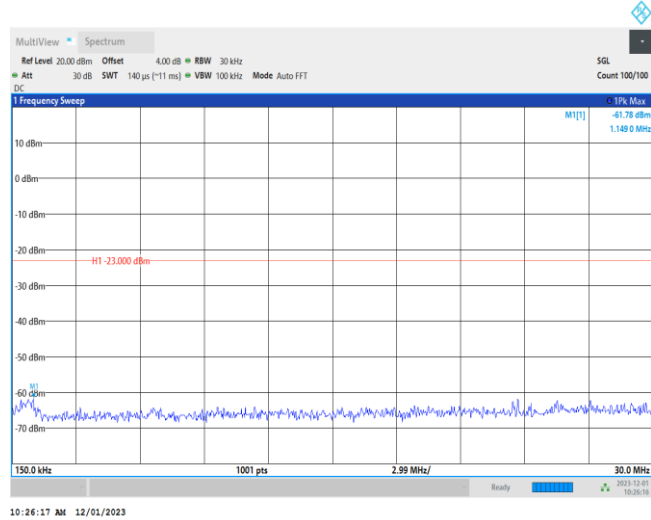
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Band IV-1413-0.15~30MHz

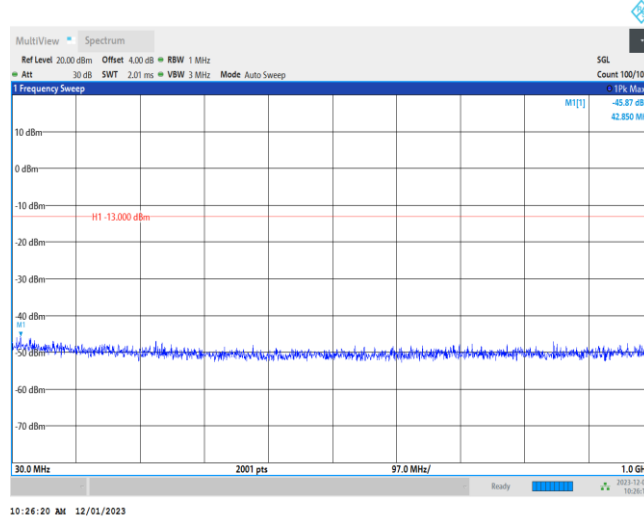


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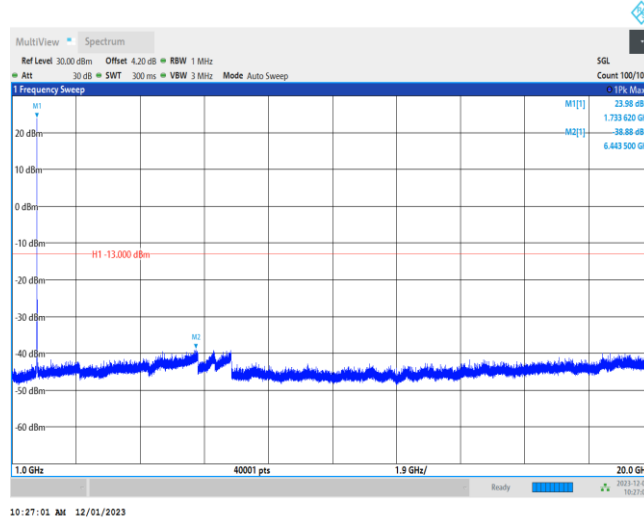
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Band IV-1413-30~1000MHz



Band IV-1413-1000~20000MHz

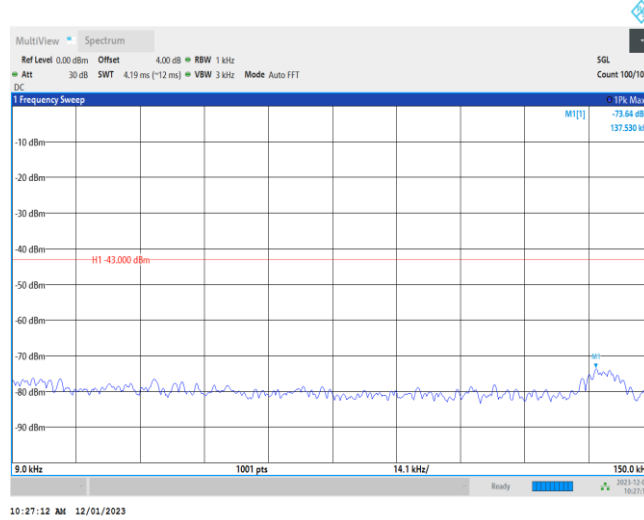


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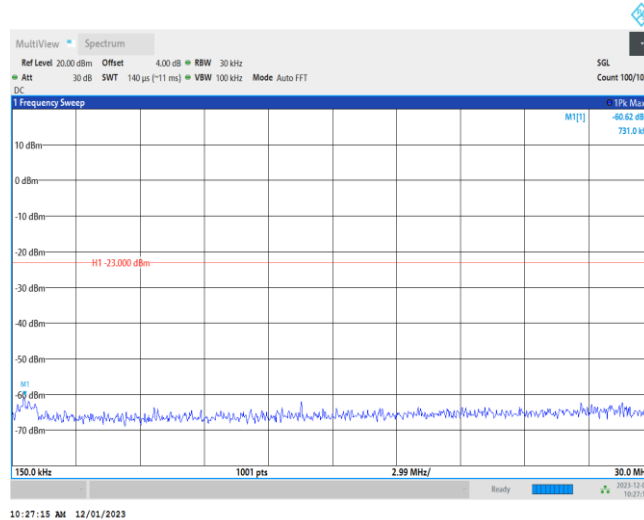
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Band IV-1513-0.009~0.15MHz



Band IV-1513-0.15~30MHz

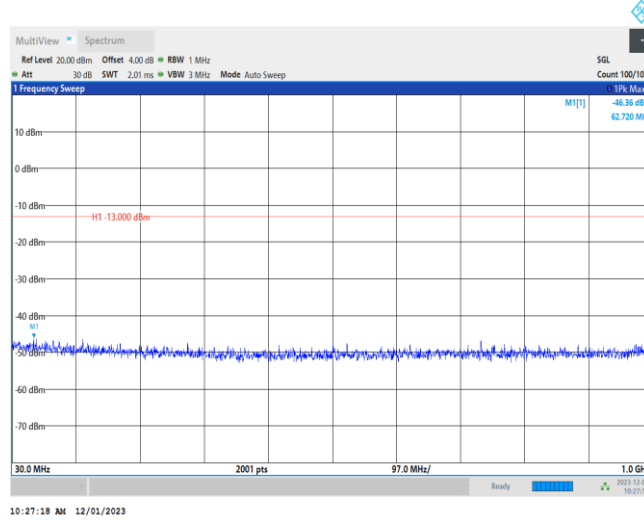


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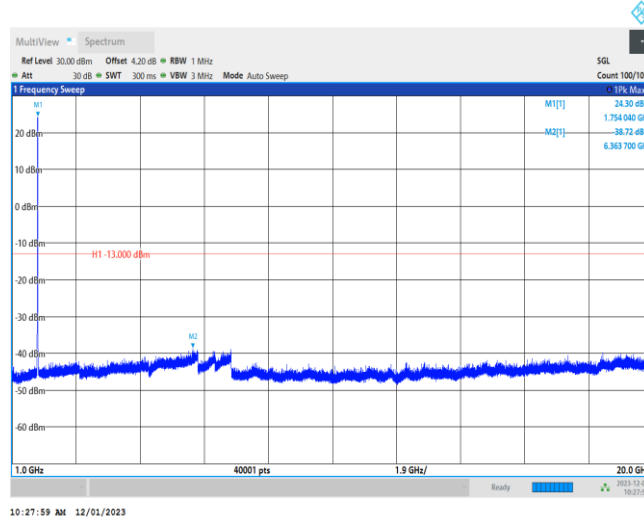
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Band IV-1513-30~1000MHz



Band IV-1513-1000~20000MHz



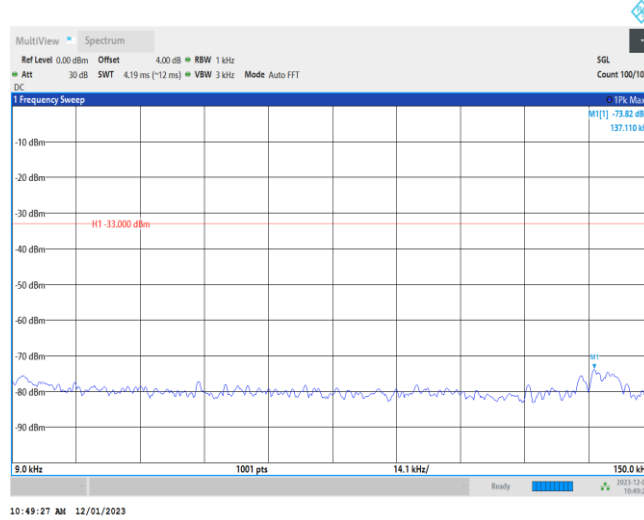
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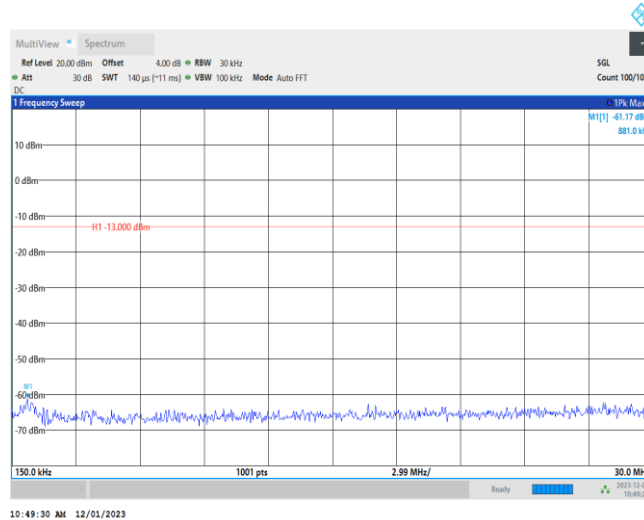
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Band V-4132-0.009~0.15MHz



Band V-4132-0.15~30MHz

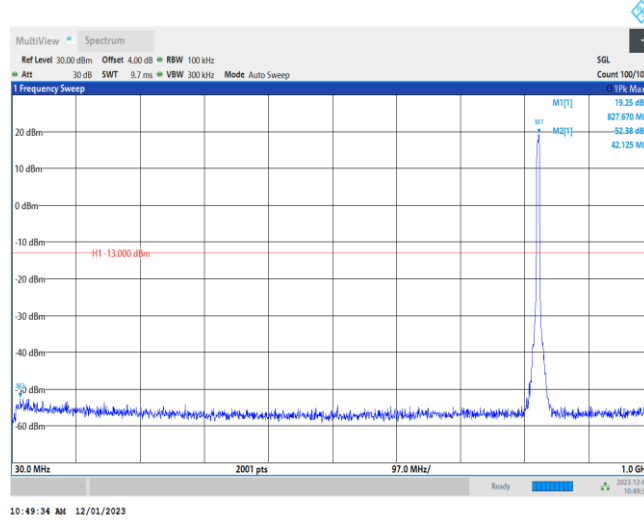


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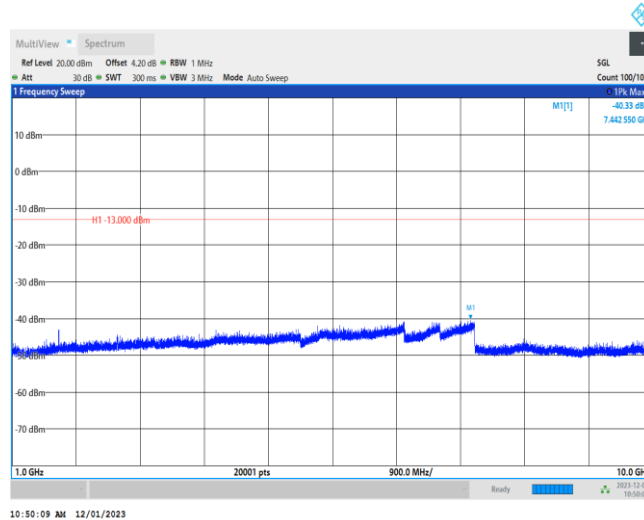
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Band V-4132-30~1000MHz



Band V-4132-1000~10000MHz

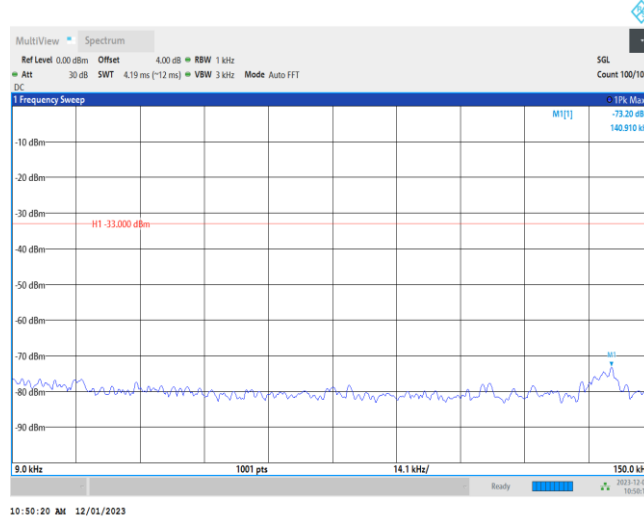


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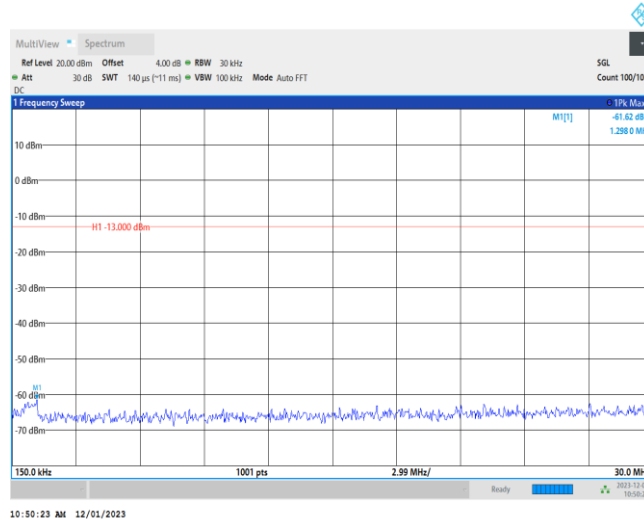
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Band V-4182-0.009~0.15MHz



Band V-4182-0.15~30MHz

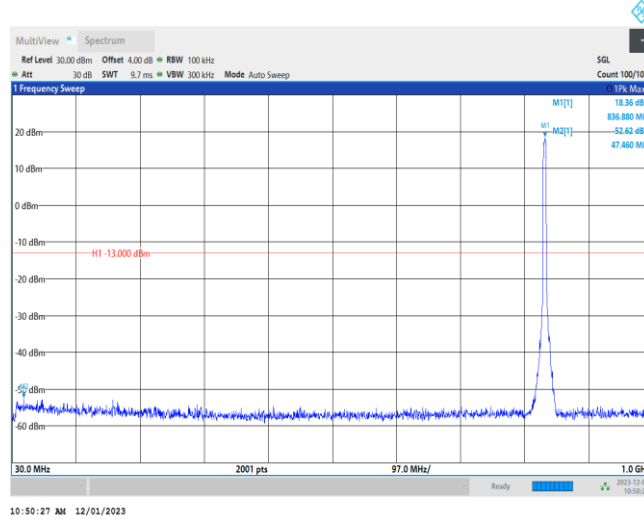


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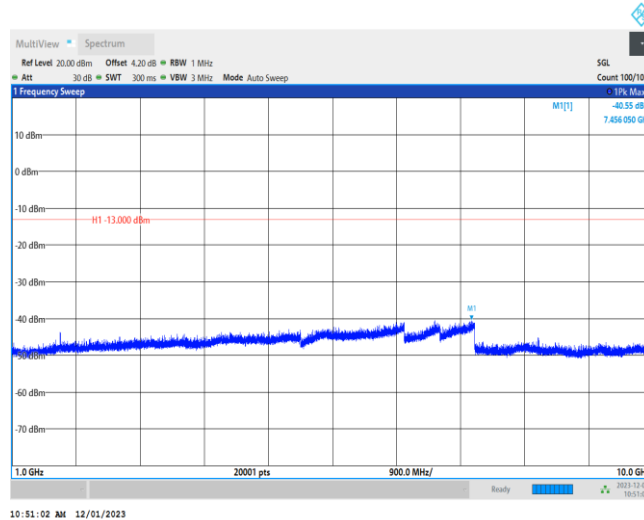
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Band V-4182-30~1000MHz



Band V-4182-1000~10000MHz

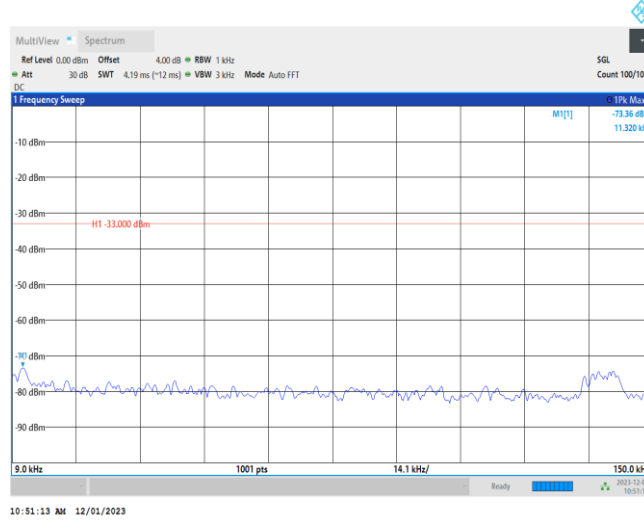


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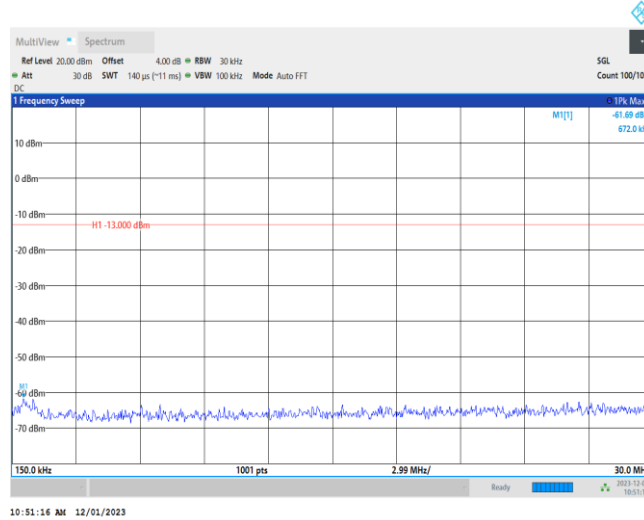
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Band V-4233-0.009~0.15MHz



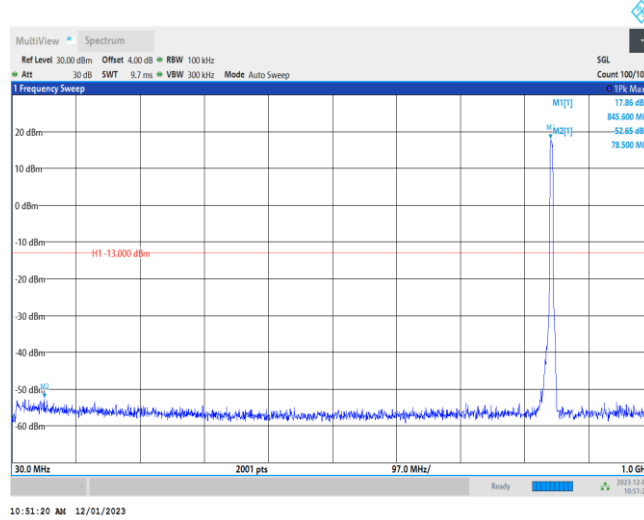
Band V-4233-0.15~30MHz



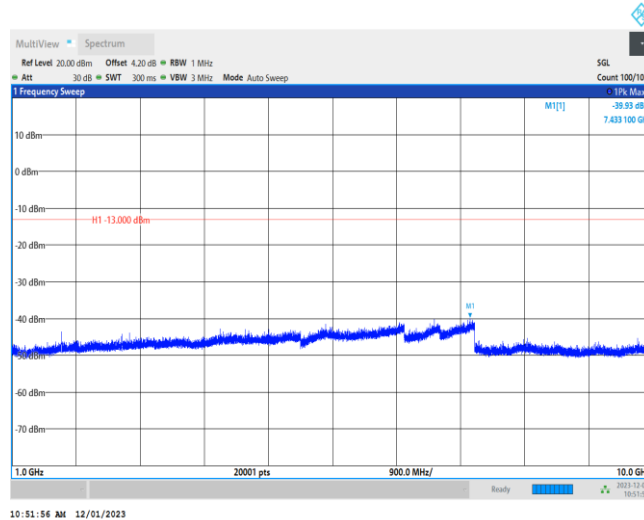
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = WCDMA Band II\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	38.40	-45.52	28.81	-73.58	-13.00	60.58	Horizontal
2	5557.2000	39.06	-45.14	32.61	-68.73	-13.00	55.73	Horizontal
3	7409.6000	37.06	-43.38	36.35	-65.24	-13.00	52.24	Horizontal
4	9262.0000	31.72	-40.23	36.80	-66.97	-13.00	53.97	Horizontal
5	11114.4000	26.62	-37.88	38.71	-67.81	-13.00	54.81	Horizontal
6	13965	25.37	-35.63	40.84	-64.68	-13.00	51.68	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3704.8000	40.05	-45.52	28.81	-71.93	-13.00	58.93	Vertical
2	5557.2000	39.76	-45.14	32.61	-68.03	-13.00	55.03	Vertical
3	7409.6000	37.70	-43.38	36.35	-64.60	-13.00	51.60	Vertical
4	9262.0000	32.18	-40.23	36.80	-66.51	-13.00	53.51	Vertical
5	11114.4000	26.13	-37.88	38.71	-68.30	-13.00	55.30	Vertical
6	13920	25.84	-35.50	40.76	-64.17	-13.00	51.17	Vertical



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Wireless Laboratory

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Member of the SGS Group (SGS SA)

**Test Band = WCDMA Band II\_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	39.25	-45.75	28.86	-72.90	-13.00	59.90	Horizontal
2	5640.0000	37.73	-44.98	32.63	-69.88	-13.00	56.88	Horizontal
3	7520.0000	36.51	-43.10	36.61	-65.24	-13.00	52.24	Horizontal
4	9400.0000	31.93	-39.83	37.06	-66.10	-13.00	53.10	Horizontal
5	11280.0000	27.74	-37.41	38.73	-66.21	-13.00	53.21	Horizontal
6	14628	25.51	-35.11	41.15	-63.71	-13.00	50.71	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3760.0000	40.18	-45.75	28.86	-71.97	-13.00	58.97	Vertical
2	5640.0000	38.67	-44.98	32.63	-68.94	-13.00	55.94	Vertical
3	7520.0000	36.80	-43.10	36.61	-64.95	-13.00	51.95	Vertical
4	9400.0000	32.90	-39.83	37.06	-65.13	-13.00	52.13	Vertical
5	11280.0000	28.17	-37.41	38.73	-65.78	-13.00	52.78	Vertical
6	13604.25	27.34	-36.08	40.19	-63.82	-13.00	50.82	Vertical



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**Test Band = WCDMA Band II\_ TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	39.89	-45.97	28.92	-72.43	-13.00	59.43	Horizontal
2	5722.8000	39.30	-44.83	32.64	-68.14	-13.00	55.14	Horizontal
3	7630.0000	36.58	-42.99	36.65	-65.02	-13.00	52.02	Horizontal
4	9538.0000	32.26	-40.01	37.32	-65.69	-13.00	52.69	Horizontal
5	11445.6000	27.63	-37.34	38.74	-66.23	-13.00	53.23	Horizontal
6	13982.25	25.63	-35.67	40.87	-64.43	-13.00	51.43	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3815.2000	40.23	-45.97	28.92	-72.09	-13.00	59.09	Vertical
2	5722.8000	39.18	-44.83	32.64	-68.26	-13.00	55.26	Vertical
3	7630.0000	36.56	-42.99	36.65	-65.04	-13.00	52.04	Vertical
4	9538.0000	32.53	-40.01	37.32	-65.42	-13.00	52.42	Vertical
5	11445.6000	27.95	-37.34	38.74	-65.91	-13.00	52.91	Vertical
6	13851.75	26.54	-35.91	40.63	-64.00	-13.00	51.00	Vertical



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**Test Band = WCDMA Band IV \_ TM1**  
**Test Channel = Low**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	38.49	-46.27	28.56	-74.49	-13.00	61.49	Horizontal
2	5137.2000	38.00	-45.34	31.73	-70.87	-13.00	57.87	Horizontal
3	6849.6000	37.56	-44.14	34.93	-66.91	-13.00	53.91	Horizontal
4	8562.0000	34.11	-41.44	36.52	-66.07	-13.00	53.07	Horizontal
5	10274.4000	29.95	-39.19	38.34	-66.17	-13.00	53.17	Horizontal
6	13434.75	26.23	-36.56	39.88	-65.70	-13.00	52.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3424.8000	41.02	-46.27	28.56	-71.96	-13.00	58.96	Vertical
2	5137.2000	39.16	-45.34	31.73	-69.71	-13.00	56.71	Vertical
3	6849.6000	38.35	-44.14	34.93	-66.12	-13.00	53.12	Vertical
4	8562.0000	34.86	-41.44	36.52	-65.32	-13.00	52.32	Vertical
5	10274.4000	29.25	-39.19	38.34	-66.87	-13.00	53.87	Vertical
6	12294	27.19	-37.41	38.89	-66.60	-13.00	53.60	Vertical



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**Test Band = WCDMA Band IV \_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	40.63	-46.27	28.58	-72.32	-13.00	59.32	Horizontal
2	5197.8000	38.47	-45.28	31.88	-70.20	-13.00	57.20	Horizontal
3	6930.4000	37.96	-43.93	35.08	-66.16	-13.00	53.16	Horizontal
4	8663.0000	34.55	-41.56	36.47	-65.80	-13.00	52.80	Horizontal
5	10395.6000	29.67	-39.01	38.40	-66.21	-13.00	53.21	Horizontal
6	13841.25	26.58	-36.01	40.61	-64.07	-13.00	51.07	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3465.2000	42.17	-46.27	28.58	-70.78	-13.00	57.78	Vertical
2	5197.8000	39.54	-45.28	31.88	-69.13	-13.00	56.13	Vertical
3	6930.4000	37.97	-43.93	35.08	-66.15	-13.00	53.15	Vertical
4	8663.0000	34.57	-41.56	36.47	-65.78	-13.00	52.78	Vertical
5	10395.6000	29.35	-39.01	38.40	-66.53	-13.00	53.53	Vertical
6	14280.75	25.34	-35.99	41.01	-64.90	-13.00	51.90	Vertical



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**Test Band = WCDMA Band IV \_ TM1**  
**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	40.77	-46.25	28.61	-72.14	-13.00	59.14	Horizontal
2	5257.8000	38.91	-45.17	32.02	-69.50	-13.00	56.50	Horizontal
3	7010.4000	37.78	-43.62	35.23	-65.87	-13.00	52.87	Horizontal
4	8763.0000	33.85	-41.41	36.42	-66.40	-13.00	53.40	Horizontal
5	10515.6000	29.10	-38.75	38.46	-66.45	-13.00	53.45	Horizontal
6	16980	26.10	-33.43	42.24	-60.35	-13.00	47.35	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3505.2000	40.79	-46.25	28.61	-72.12	-13.00	59.12	Vertical
2	5257.8000	39.08	-45.17	32.02	-69.33	-13.00	56.33	Vertical
3	7010.4000	38.09	-43.62	35.23	-65.56	-13.00	52.56	Vertical
4	8763.0000	34.77	-41.41	36.42	-65.48	-13.00	52.48	Vertical
5	10515.6000	29.19	-38.75	38.46	-66.36	-13.00	53.36	Vertical
6	15153.75	27.12	-34.40	40.98	-61.56	-13.00	48.56	Vertical



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

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	40.25	-48.22	25.28	-77.95	-13.00	64.95	Horizontal
2	2479.2000	39.17	-47.31	27.24	-76.15	-13.00	63.15	Horizontal
3	3305.6000	41.17	-46.67	28.48	-72.28	-13.00	59.28	Horizontal
4	4132.0000	40.85	-45.92	29.42	-70.91	-13.00	57.91	Horizontal
5	4958.4000	40.71	-45.72	31.31	-68.96	-13.00	55.96	Horizontal
6	7002.2857	38.74	-43.58	35.21	-64.90	-13.00	51.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1652.8000	43.11	-48.22	25.28	-75.09	-13.00	62.09	Vertical
2	2479.2000	42.95	-47.31	27.24	-72.37	-13.00	59.37	Vertical
3	3305.6000	41.83	-46.67	28.48	-71.62	-13.00	58.62	Vertical
4	4132.0000	40.47	-45.92	29.42	-71.29	-13.00	58.29	Vertical
5	4958.4000	41.26	-45.72	31.31	-68.41	-13.00	55.41	Vertical
6	5435.4286	41.10	-45.03	32.45	-66.75	-13.00	53.75	Vertical



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

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	53.24	-48.19	25.31	-64.90	-13.00	51.90	Horizontal
2	2509.2000	40.42	-47.24	27.32	-74.76	-13.00	61.76	Horizontal
3	3345.6000	41.89	-46.62	28.51	-71.48	-13.00	58.48	Horizontal
4	4182.0000	39.06	-45.95	29.54	-72.61	-13.00	59.61	Horizontal
5	5018.4000	39.34	-45.73	31.45	-70.20	-13.00	57.20	Horizontal
6	6604.5714	39.91	-44.47	34.49	-65.33	-13.00	52.33	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1672.8000	44.96	-48.19	25.31	-73.18	-13.00	60.18	Vertical
2	2509.2000	42.61	-47.24	27.32	-72.57	-13.00	59.57	Vertical
3	3345.6000	41.48	-46.62	28.51	-71.89	-13.00	58.89	Vertical
4	4182.0000	40.24	-45.95	29.54	-71.43	-13.00	58.43	Vertical
5	5018.4000	39.83	-45.73	31.45	-69.71	-13.00	56.71	Vertical
6	6664.5714	40.00	-44.21	34.60	-64.88	-13.00	51.88	Vertical



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

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	39.37	-48.17	25.34	-78.72	-13.00	65.72	Horizontal
2	2539.8000	41.75	-47.13	27.38	-73.26	-13.00	60.26	Horizontal
3	3386.4000	39.71	-46.56	28.53	-73.58	-13.00	60.58	Horizontal
4	4233.0000	39.29	-45.90	29.66	-72.21	-13.00	59.21	Horizontal
5	5079.6000	39.17	-45.47	31.59	-69.96	-13.00	56.96	Horizontal
6	6640	40.39	-44.32	34.55	-64.64	-13.00	51.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1693.2000	43.08	-48.17	25.34	-75.01	-13.00	62.01	Vertical
2	2539.8000	42.02	-47.13	27.38	-72.99	-13.00	59.99	Vertical
3	3386.4000	41.84	-46.56	28.53	-71.45	-13.00	58.45	Vertical
4	4233.0000	40.81	-45.90	29.66	-70.69	-13.00	57.69	Vertical
5	5079.6000	39.26	-45.47	31.59	-69.87	-13.00	56.87	Vertical
6	7053.7143	39.52	-43.92	35.35	-64.31	-13.00	51.31	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

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability

### Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	2.32	0.001234	PASS
Band II	9400	VN	NT	2.21	0.001176	PASS
Band II	9400	VH	NT	3.01	0.001601	PASS
Band IV	1413	VL	NT	-3.39	-0.001957	PASS
Band IV	1413	VN	NT	-2.80	-0.001616	PASS
Band IV	1413	VH	NT	-2.98	-0.001720	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-0.74	-0.000885	±2.5	PASS
Band V	4182	VN	NT	0.56	0.000670	±2.5	PASS
Band V	4182	VH	NT	-0.36	-0.000430	±2.5	PASS



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	2.07	0.001101	PASS
Band II	9400	NV	-20	2.37	0.001261	PASS
Band II	9400	NV	-10	2.66	0.001415	PASS
Band II	9400	NV	0	2.10	0.001117	PASS
Band II	9400	NV	10	2.79	0.001484	PASS
Band II	9400	NV	20	3.08	0.001638	PASS
Band II	9400	NV	30	1.90	0.001011	PASS
Band II	9400	NV	40	2.94	0.001564	PASS
Band II	9400	NV	50	-2.29	-0.001322	PASS
Band IV	1413	NV	-30	-1.78	-0.001027	PASS
Band IV	1413	NV	-20	-2.57	-0.001483	PASS
Band IV	1413	NV	-10	-3.05	-0.001760	PASS
Band IV	1413	NV	0	-2.70	-0.001558	PASS
Band IV	1413	NV	10	-3.13	-0.001807	PASS
Band IV	1413	NV	20	-2.91	-0.001680	PASS
Band IV	1413	NV	30	-3.31	-0.001910	PASS
Band IV	1413	NV	40	2.10	0.001253	PASS
Band IV	1413	NV	50	2.26	0.001234	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-0.24	-0.000287	±2.5	PASS
Band V	4182	NV	-20	0.04	0.000048	±2.5	PASS
Band V	4182	NV	-10	0.29	0.000347	±2.5	PASS
Band V	4182	NV	0	0.03	0.000036	±2.5	PASS
Band V	4182	NV	10	-0.72	-0.000861	±2.5	PASS
Band V	4182	NV	20	-0.74	-0.000885	±2.5	PASS
Band V	4182	NV	30	0.11	0.000132	±2.5	PASS
Band V	4182	NV	40	-0.16	-0.000223	±2.5	PASS
Band V	4182	NV	50	0.08	0.000059	±2.5	PASS

---End of Attachment---



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