

# 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	23.72	23.97	33	PASS
Band II	9400	23.86	24.11	33	PASS
Band II	9538	23.66	23.91	33	PASS
Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	24.20	24.31	38.45	PASS
Band V	4182	24.14	24.25	38.45	PASS
Band V	4233	24.07	24.18	38.45	PASS



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## Peak-to-Average Ratio

### Test Result

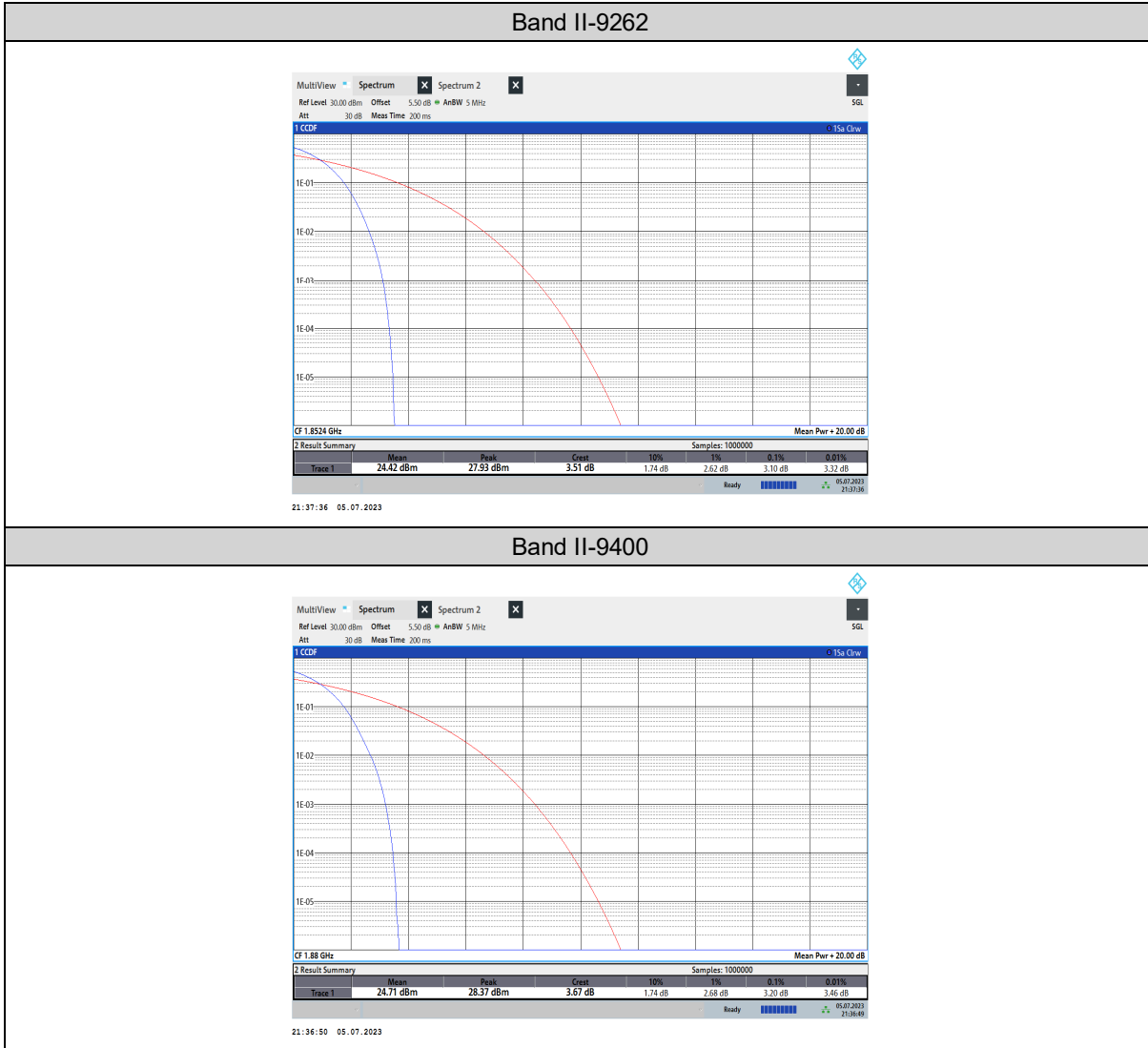
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band II	9262	3.10	13	PASS
Band II	9400	3.20	13	PASS
Band II	9538	3.16	13	PASS
Band V	4132	3.14	13	PASS
Band V	4182	3.20	13	PASS
Band V	4233	3.20	13	PASS



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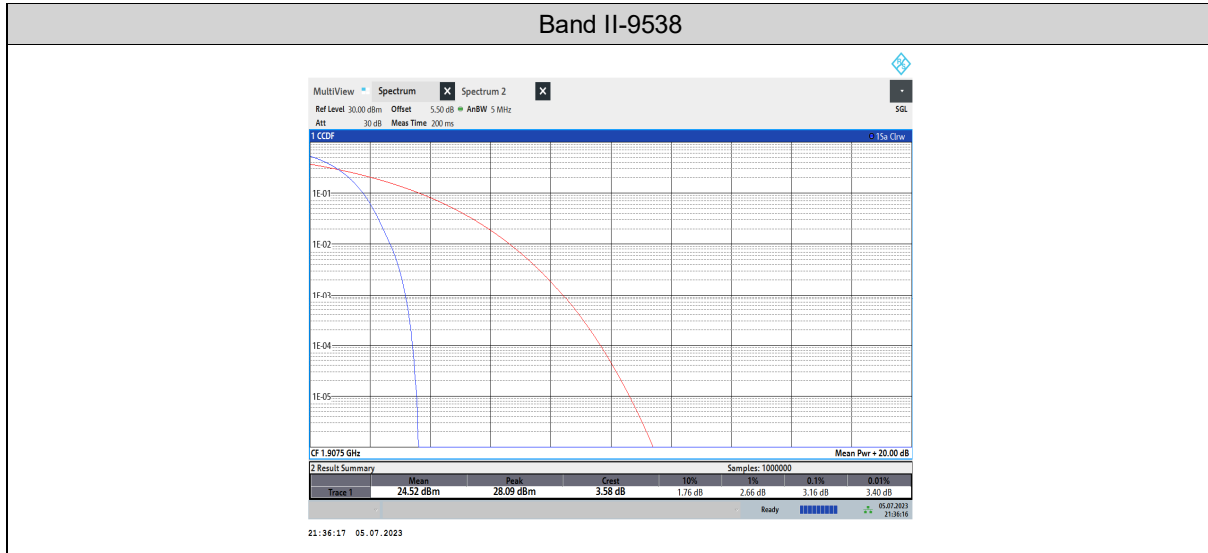
Test Graphs



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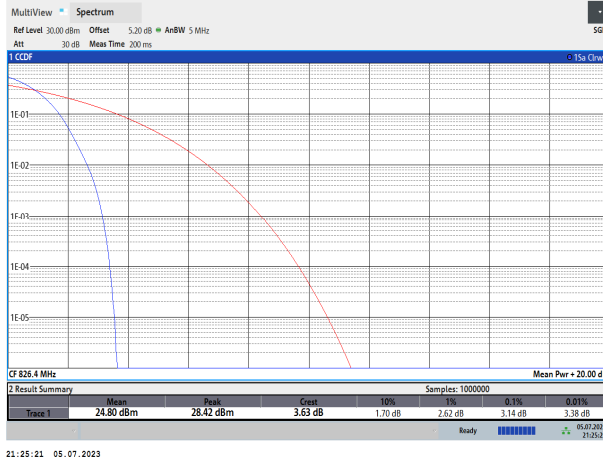
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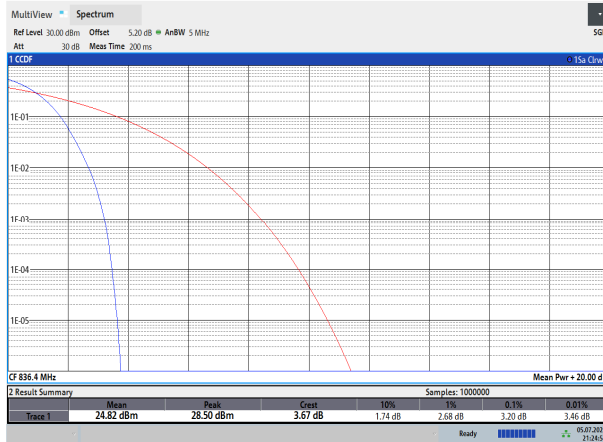
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Band V-4132



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Band V-4182

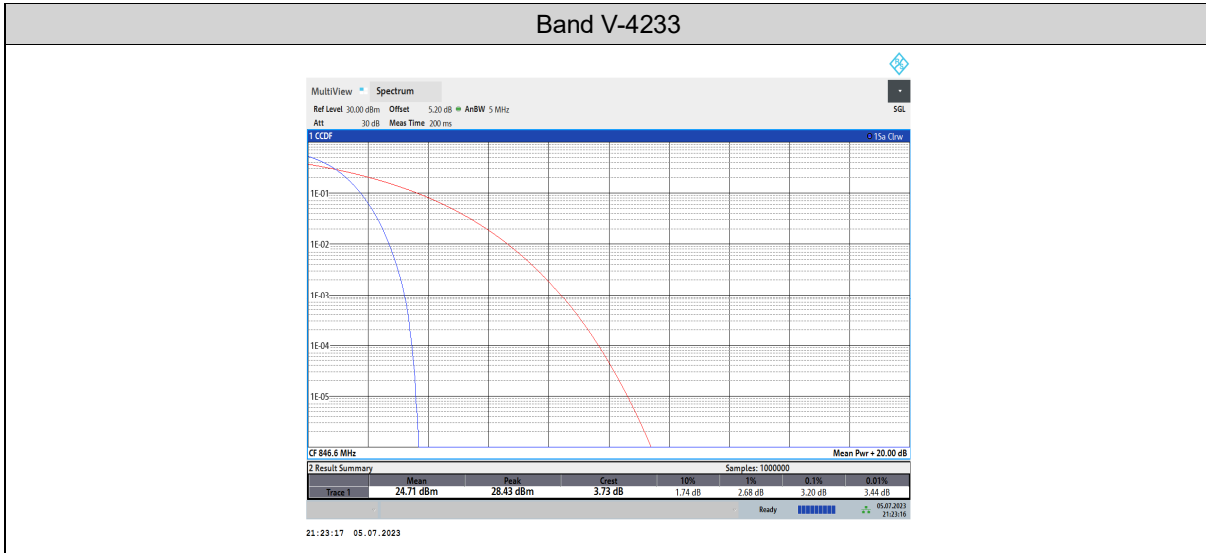


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## Modulation Characteristics

### Test Result

Band	Channel	Result	Verdict
Band II	9400	PASS	PASS
Band V	4182	PASS	PASS

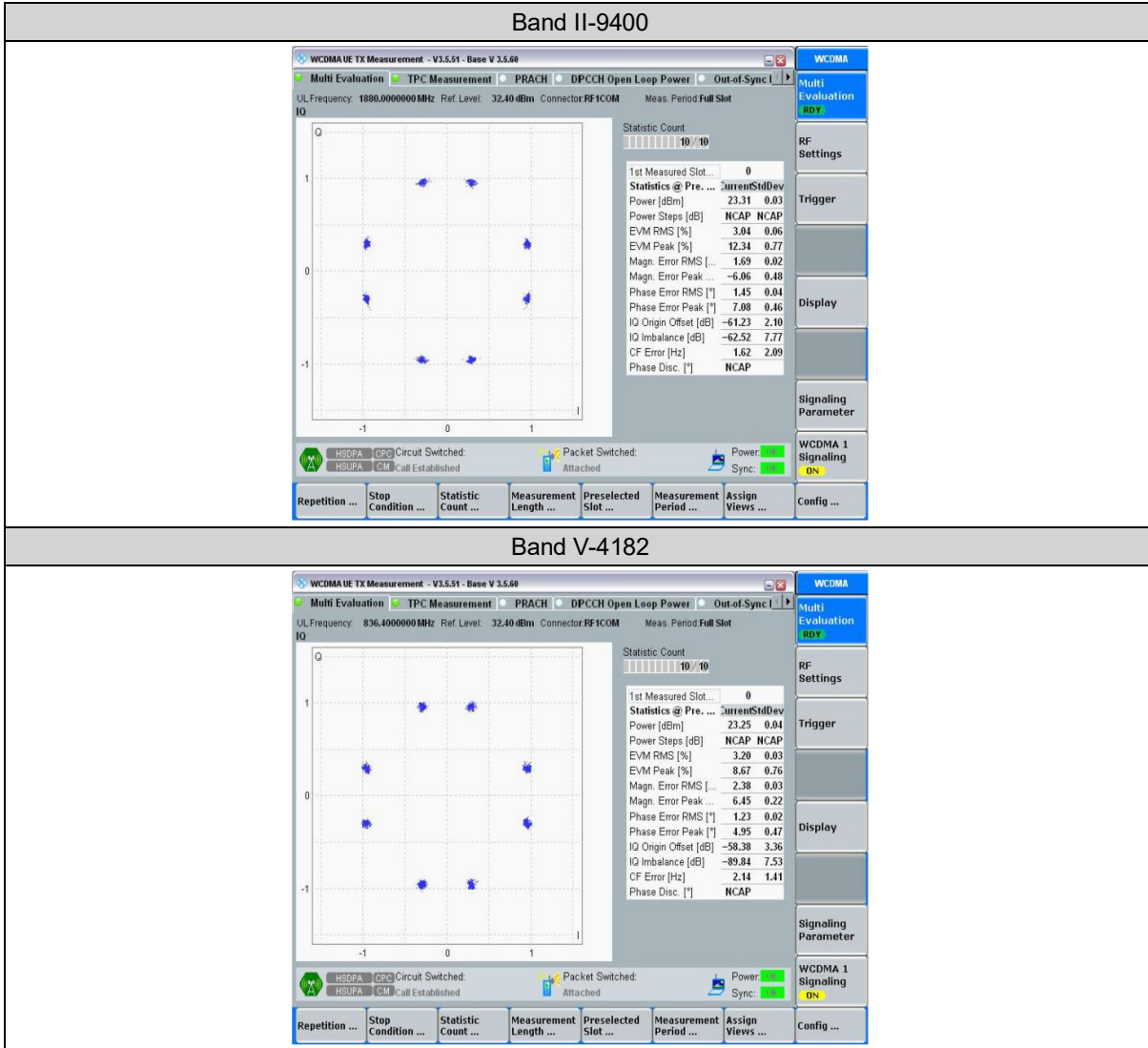


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Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band II	9262	4.162	4.74	---	PASS
Band II	9400	4.164	4.75	---	PASS
Band II	9538	4.168	4.73	---	PASS
Band V	4132	4.136	4.74	---	PASS
Band V	4182	4.131	4.71	---	PASS
Band V	4233	4.13	4.71	---	PASS



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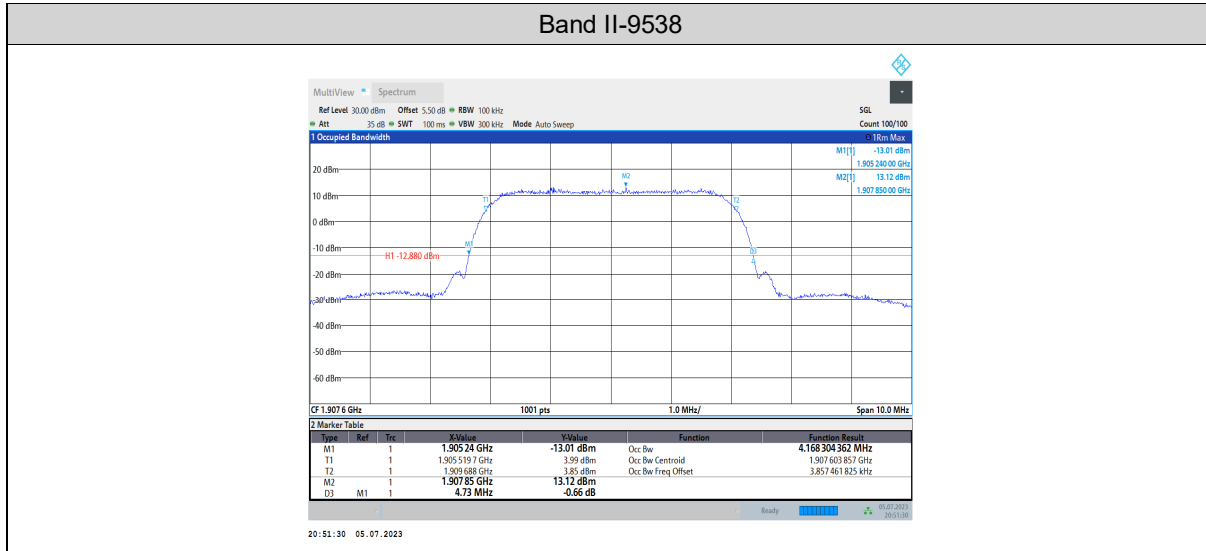
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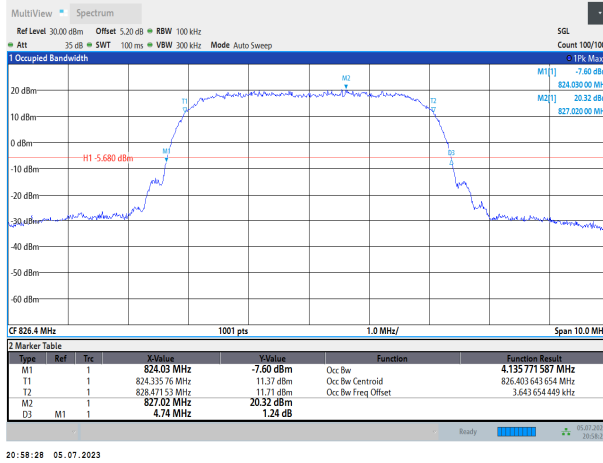
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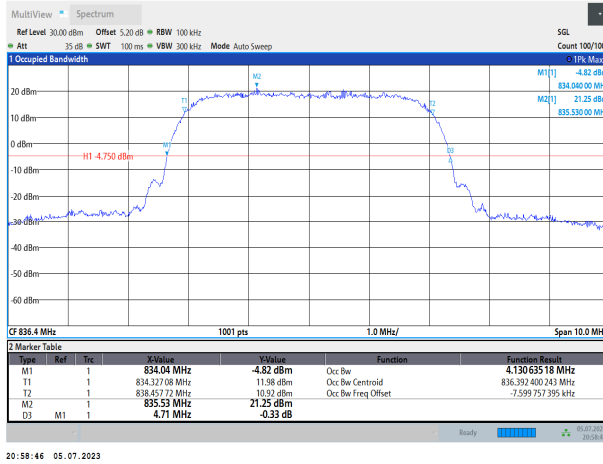
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Band V-4132



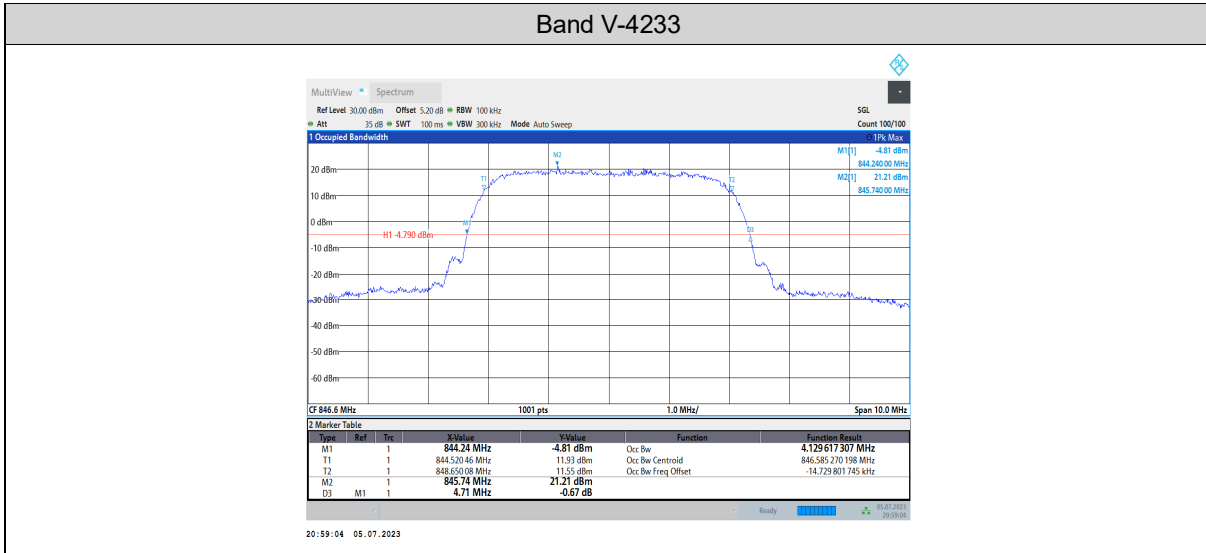
Band V-4182



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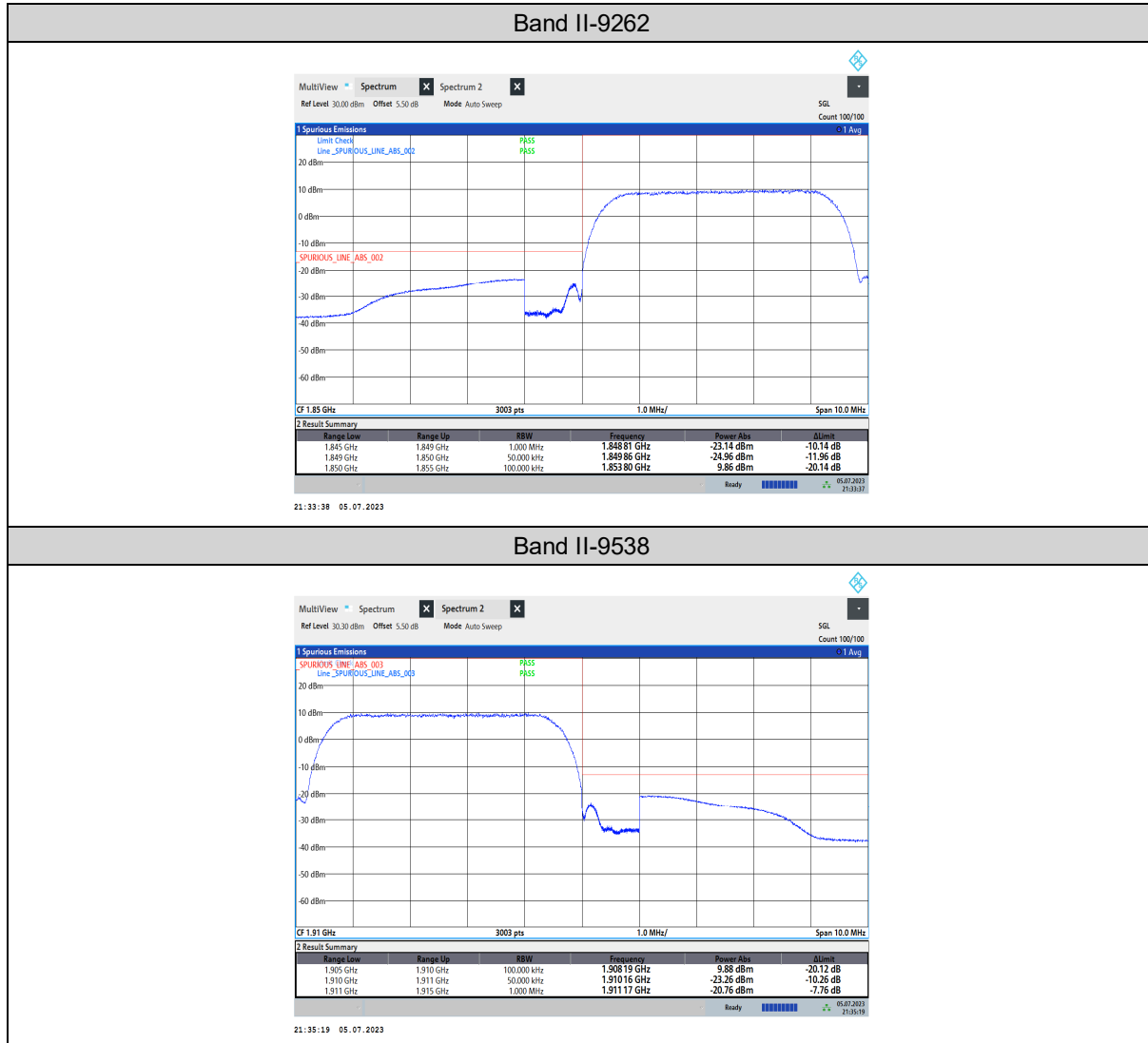


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## Band Edge

## Test Graphs

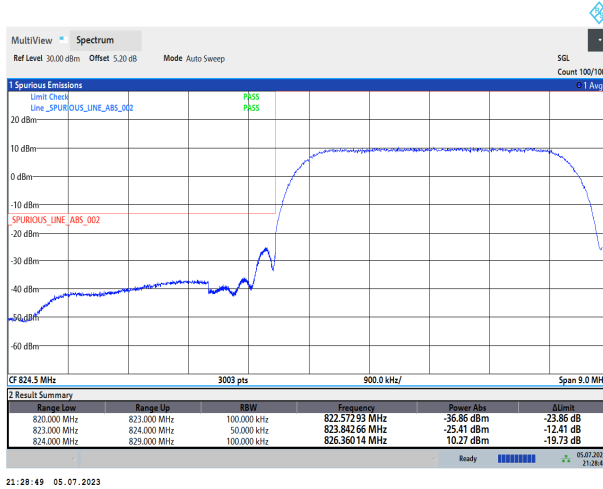


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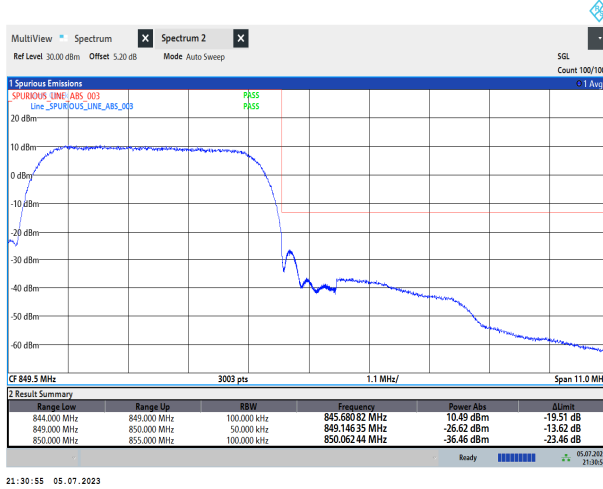
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Band V-4132



Band V-4233



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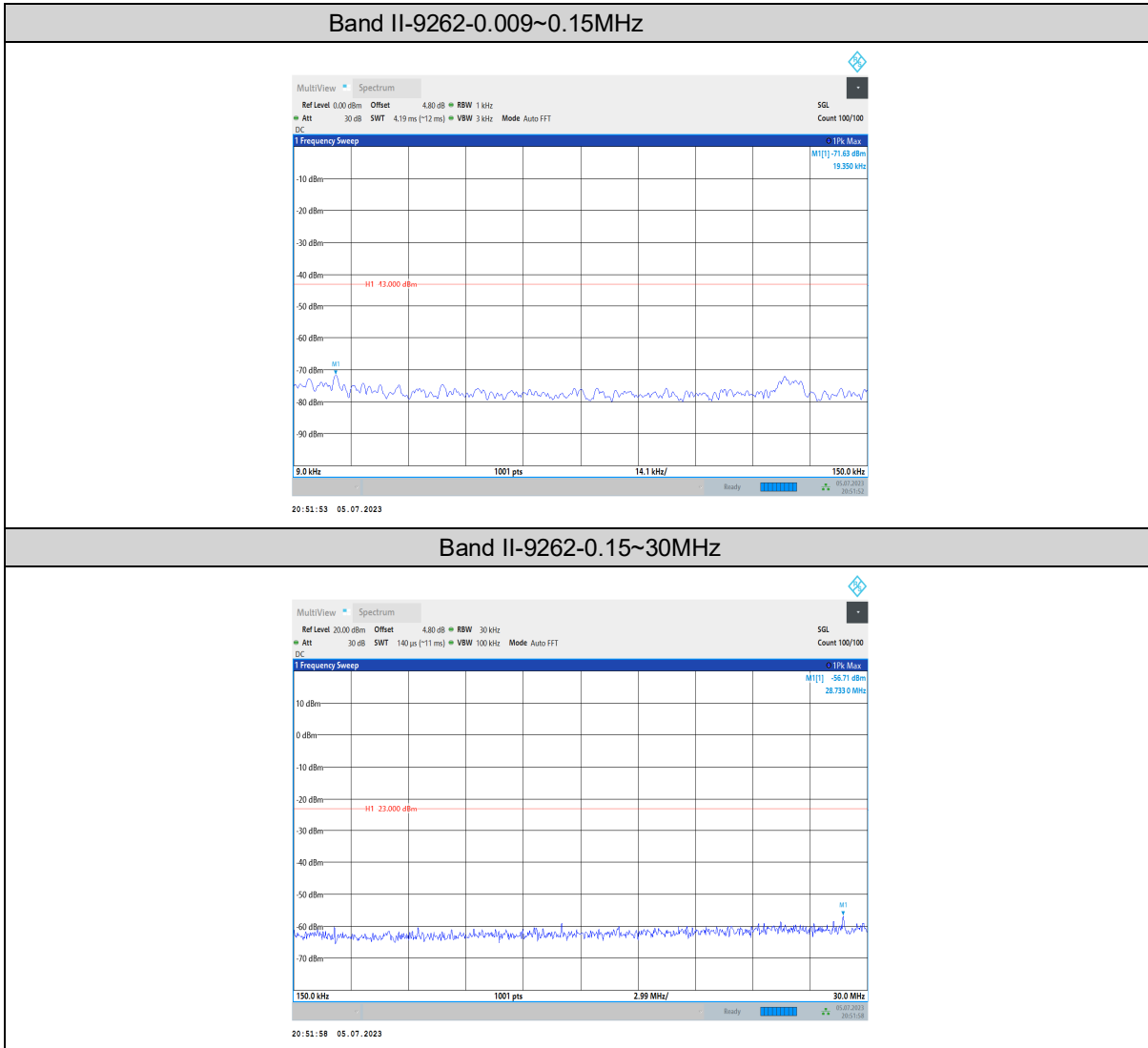
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## Conducted Spurious Emission

### Test Graphs

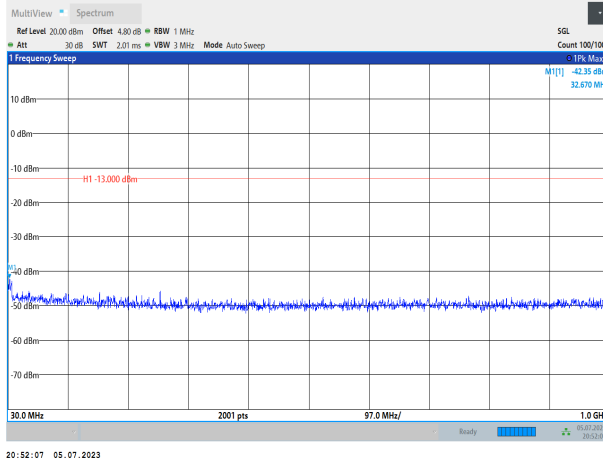


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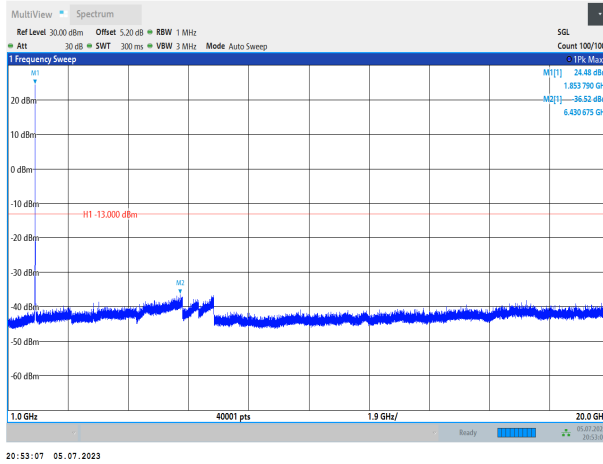
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Band II-9262-30~1000MHz



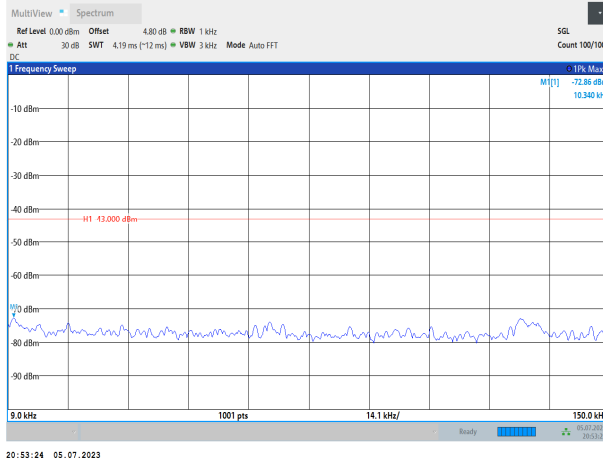
Band II-9262-1000~20000MHz



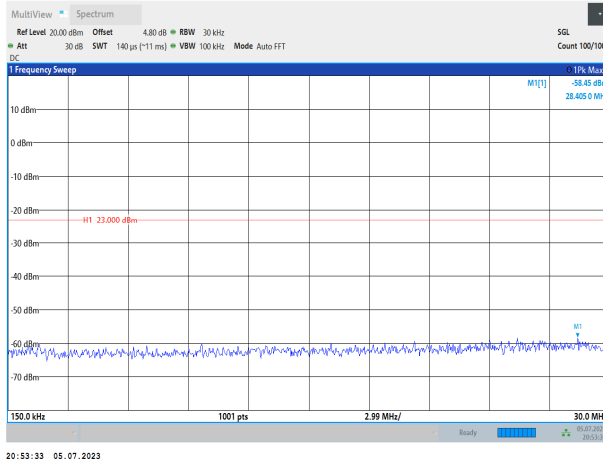
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Band II-9400-0.009~0.15MHz



Band II-9400-0.15~30MHz

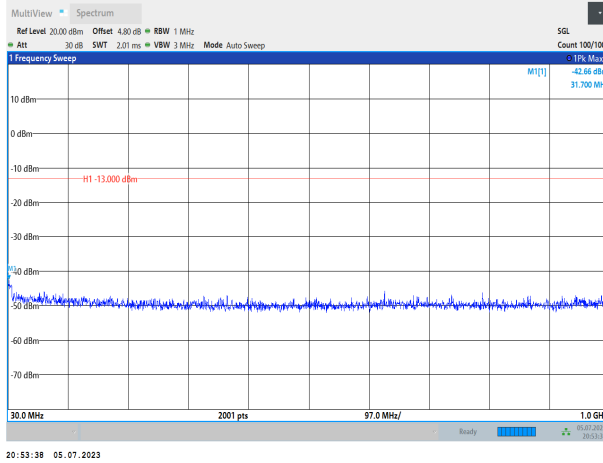


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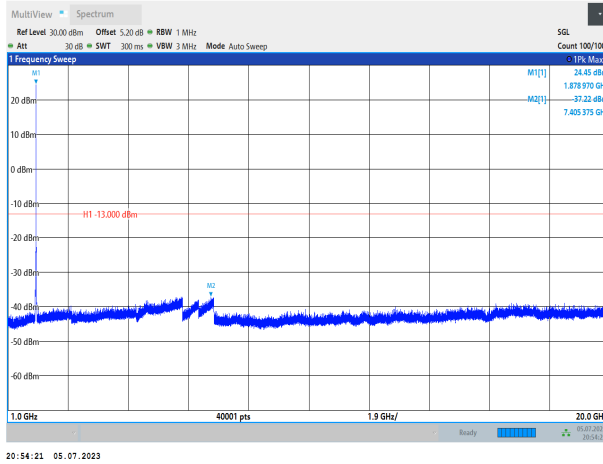
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Band II-9400-30~1000MHz



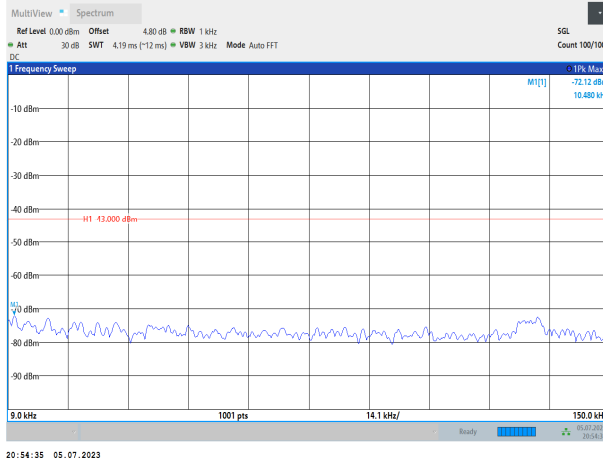
Band II-9400-1000~20000MHz



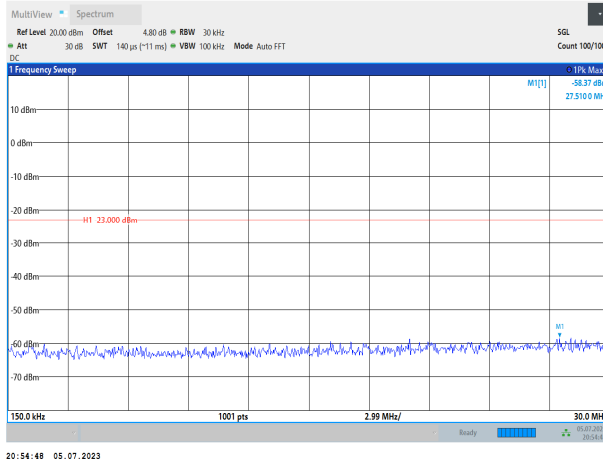
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Band II-9538-0.009~0.15MHz



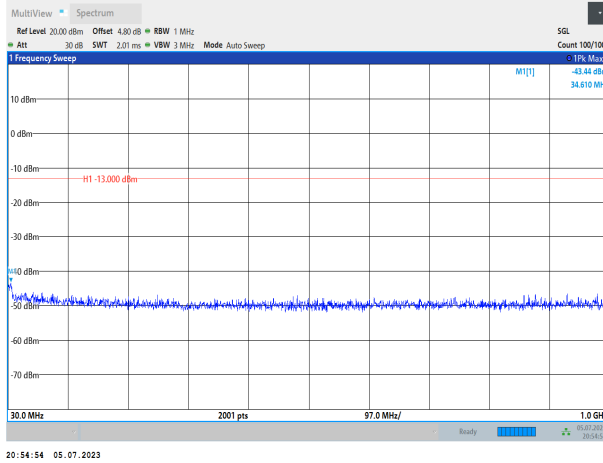
Band II-9538-0.15~30MHz



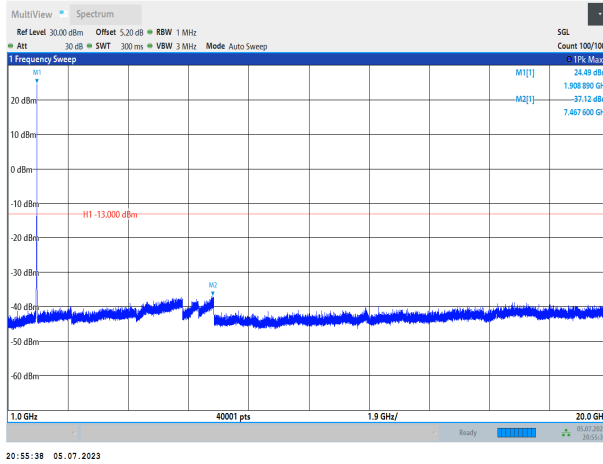
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Band II-9538-30~1000MHz



Band II-9538-1000~20000MHz

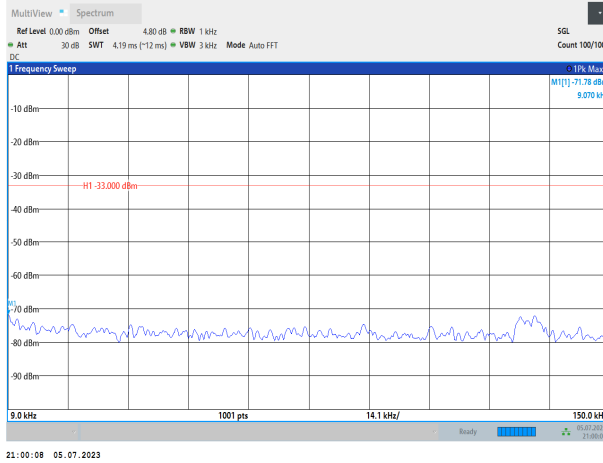


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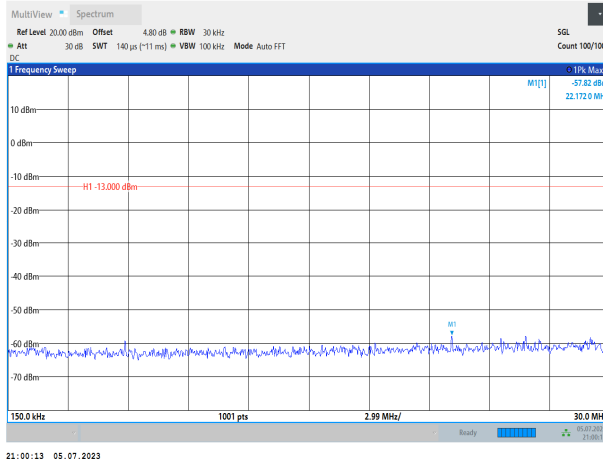
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Band V-4132-0.009~0.15MHz



Band V-4132-0.15~30MHz

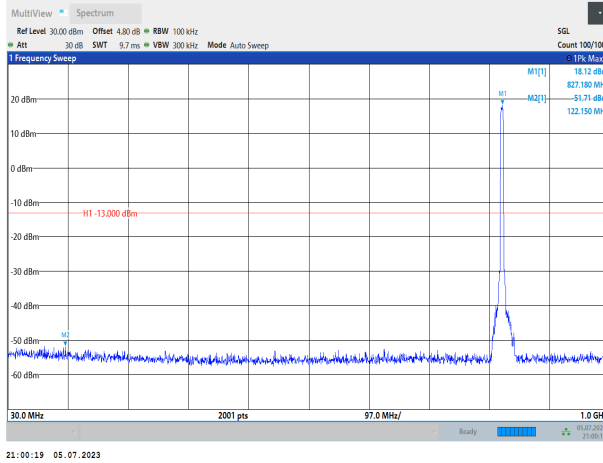


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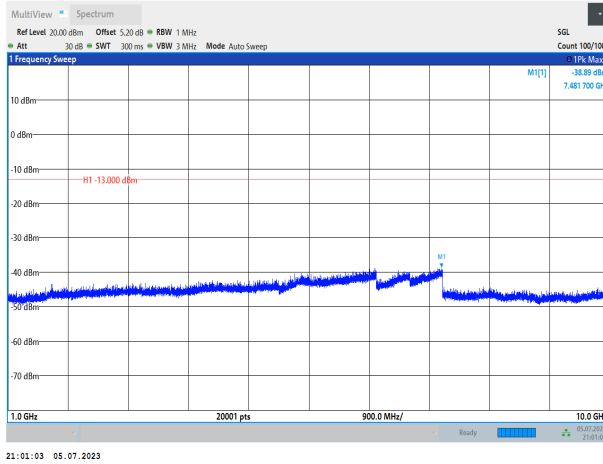
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Band V-4132-30~1000MHz



Band V-4132-1000~10000MHz

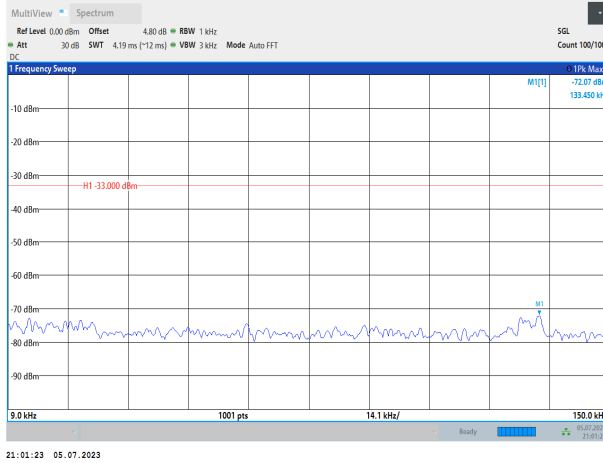


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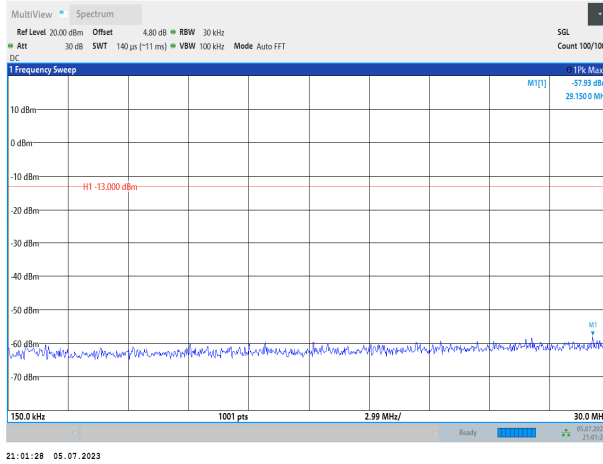
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Band V-4182-0.009~0.15MHz



Band V-4182-0.15~30MHz

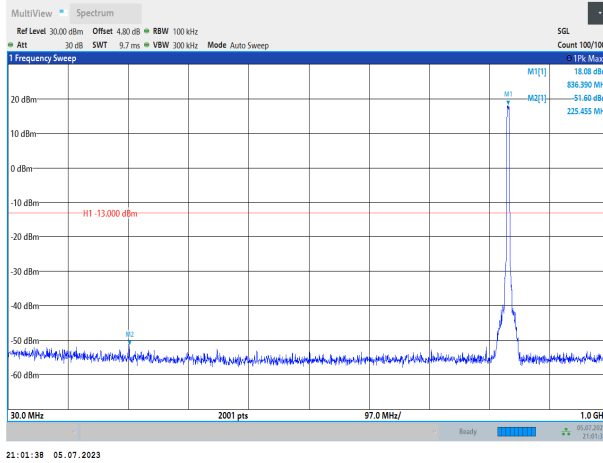


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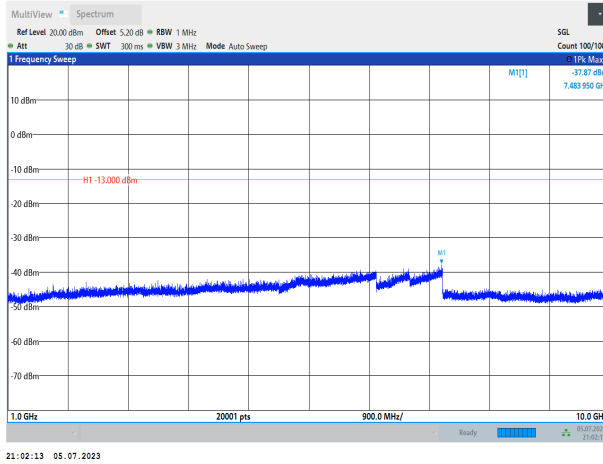
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Band V-4182-30~1000MHz



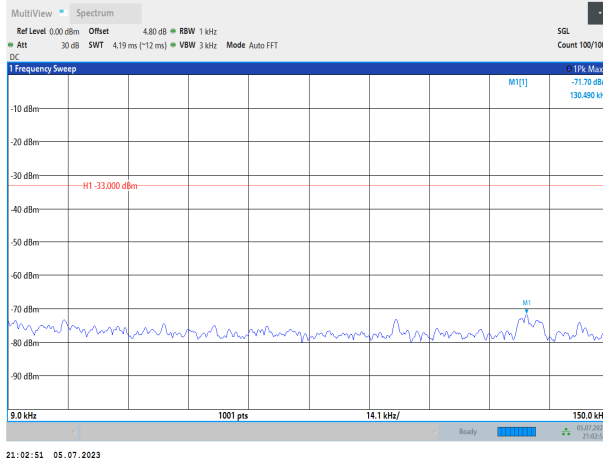
Band V-4182-1000~10000MHz



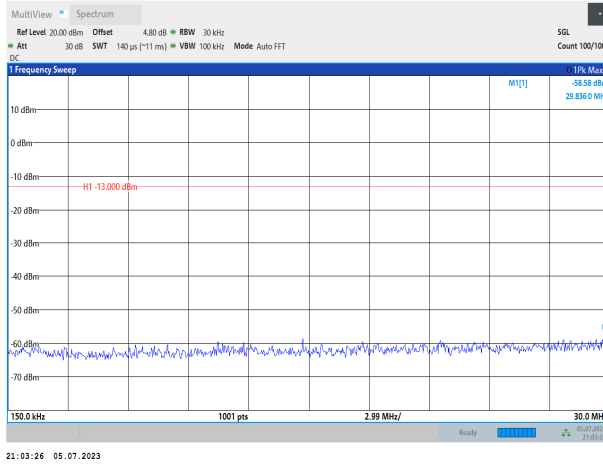
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Band V-4233-0.009~0.15MHz



Band V-4233-0.15~30MHz

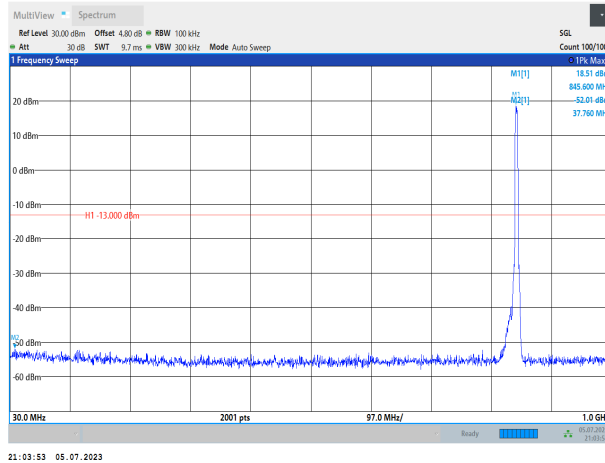


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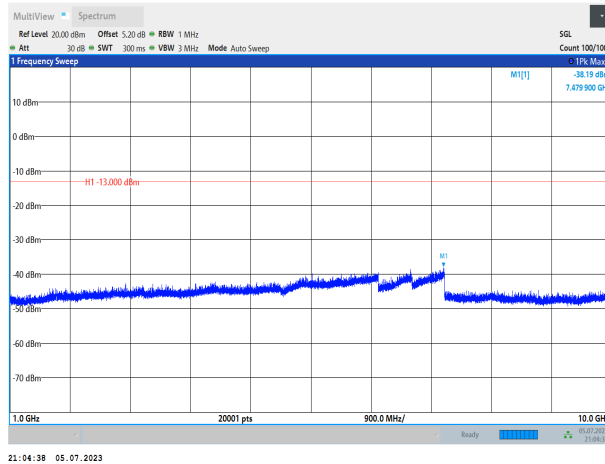
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Band V-4233-30~1000MHz



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]	Height [cm]	Angle [°]	Polarity
1	3706.5	56.08	-45.53	28.81	-55.90	-13.00	42.90	255	200	Horizontal
2	5000.25	45.79	-45.64	31.40	-63.71	-13.00	50.71	148	63	Horizontal
3	7369.5	41.21	-43.51	36.23	-61.33	-13.00	48.33	176	63	Horizontal
4	8851.5	38.51	-41.24	36.37	-61.62	-13.00	48.62	166	98	Horizontal
5	11208	34.69	-37.39	38.72	-59.24	-13.00	46.24	259	245	Horizontal
6	12712.5	33.33	-36.70	39.01	-59.62	-13.00	46.62	183	178	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.75	46.95	-45.51	28.80	-65.02	-13.00	52.02	266	92	Vertical
2	5000.25	47.37	-45.64	31.40	-62.13	-13.00	49.13	145	24	Vertical
3	6841.5	41.15	-44.14	34.91	-63.34	-13.00	50.34	258	182	Vertical
4	8031	39.54	-42.04	36.78	-60.98	-13.00	47.98	172	340	Vertical
5	9423.75	37.41	-39.93	37.11	-60.67	-13.00	47.67	153	103	Vertical
6	12244.5	33.69	-37.45	38.87	-60.15	-13.00	47.15	263	136	Vertical



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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]	Height [cm]	Angle [°]	Polarity
1	3761.25	55.45	-45.76	28.86	-56.71	-13.00	43.71	245	200	Horizontal
2	5000.25	45.34	-45.64	31.40	-64.16	-13.00	51.16	163	64	Horizontal
3	6710.25	40.70	-43.85	34.68	-63.73	-13.00	50.73	255	1	Horizontal
4	8403.75	39.53	-41.46	36.60	-60.59	-13.00	47.59	186	86	Horizontal
5	11217	34.56	-37.40	38.72	-59.37	-13.00	46.37	177	0	Horizontal
6	13368.75	32.71	-36.49	39.76	-59.27	-13.00	46.27	192	154	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3761.25	49.33	-45.76	28.86	-62.83	-13.00	49.83	266	92	Vertical
2	5000.25	46.27	-45.64	31.40	-63.23	-13.00	50.23	135	26	Vertical
3	6766.5	40.80	-44.05	34.78	-63.73	-13.00	50.73	147	360	Vertical
4	8742	38.74	-41.51	36.43	-61.60	-13.00	48.60	152	69	Vertical
5	11238.75	34.41	-37.40	38.72	-59.53	-13.00	46.53	146	171	Vertical
6	12317.25	33.68	-37.44	38.90	-60.12	-13.00	47.12	190	360	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]	Height [cm]	Angle [°]	Polarity
1	3813.75	50.83	-45.97	28.91	-61.49	-13.00	48.49	142	198	Horizontal
2	5000.25	46.03	-45.64	31.40	-63.47	-13.00	50.47	169	62	Horizontal
3	6676.5	41.28	-43.94	34.62	-63.30	-13.00	50.30	182	0	Horizontal
4	9393	37.71	-39.86	37.05	-60.36	-13.00	47.36	175	176	Horizontal
5	11610.75	33.83	-36.91	38.76	-59.58	-13.00	46.58	159	0	Horizontal
6	13701.75	33.77	-36.16	40.36	-57.29	-13.00	44.29	231	346	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3816.75	47.03	-45.98	28.92	-65.29	-13.00	52.29	266	115	Vertical
2	5000.25	47.44	-45.64	31.40	-62.06	-13.00	49.06	163	24	Vertical
3	7134	40.92	-43.94	35.58	-62.71	-13.00	49.71	258	274	Vertical
4	8803.5	38.58	-41.25	36.40	-61.53	-13.00	48.53	174	240	Vertical
5	9879	35.99	-39.36	37.97	-60.66	-13.00	47.66	186	217	Vertical
6	12475.5	33.49	-37.10	38.94	-59.93	-13.00	46.93	166	274	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]	Height [cm]	Angle [°]	Polarity
1	1125.1429	63.96	-48.36	25.24	-54.42	-13.00	41.42	125	298	Horizontal
2	1374.8571	60.94	-48.03	25.11	-57.24	-13.00	44.24	146	0	Horizontal
3	2375.4286	58.21	-47.46	26.95	-57.56	-13.00	44.56	192	298	Horizontal
4	2624.5714	50.84	-46.96	27.55	-63.83	-13.00	50.83	184	298	Horizontal
5	2874.8571	53.93	-46.66	28.05	-59.94	-13.00	46.94	172	298	Horizontal
6	5000	47.66	-45.81	31.40	-62.01	-13.00	49.01	136	60	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1125.1429	58.05	-48.36	25.24	-60.33	-13.00	47.33	210	92	Vertical
2	1374.8571	58.31	-48.03	25.11	-59.87	-13.00	46.87	142	250	Vertical
3	2375.4286	55.55	-47.46	26.95	-60.22	-13.00	47.22	136	290	Vertical
4	2625.1429	48.83	-46.96	27.55	-65.84	-13.00	52.84	259	92	Vertical
5	2875.4286	55.27	-46.66	28.05	-58.60	-13.00	45.60	184	290	Vertical
6	5000	49.80	-45.81	31.40	-59.87	-13.00	46.87	175	22	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]	Height [cm]	Angle [°]	Polarity
1	1125.1429	63.92	-48.36	25.24	-54.46	-13.00	41.46	244	299	Horizontal
2	1374.8571	60.50	-48.03	25.11	-57.68	-13.00	44.68	172	0	Horizontal
3	2375.4286	57.77	-47.46	26.95	-58.00	-13.00	45.00	136	299	Horizontal
4	2625.1429	49.94	-46.96	27.55	-64.73	-13.00	51.73	256	289	Horizontal
5	2875.4286	52.91	-46.66	28.05	-60.96	-13.00	47.96	219	239	Horizontal
6	5000	47.97	-45.81	31.40	-61.70	-13.00	48.70	188	59	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1125.1429	57.43	-48.36	25.24	-60.95	-13.00	47.95	244	82	Vertical
2	1374.8571	59.20	-48.03	25.11	-58.98	-13.00	45.98	175	112	Vertical
3	2374.8571	55.06	-47.46	26.95	-60.71	-13.00	47.71	136	280	Vertical
4	2625.1429	47.84	-46.96	27.55	-66.83	-13.00	53.83	255	91	Vertical
5	2874.2857	54.85	-46.66	28.05	-59.02	-13.00	46.02	166	280	Vertical
6	5000	50.16	-45.81	31.40	-59.51	-13.00	46.51	192	23	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]	Height [cm]	Angle [°]	Polarity
1	1125.1429	64.12	-48.36	25.24	-54.26	-13.00	41.26	210	297	Horizontal
2	1374.8571	60.53	-48.03	25.11	-57.65	-13.00	44.65	140	0	Horizontal
3	2374.2857	57.41	-47.46	26.95	-58.36	-13.00	45.36	158	297	Horizontal
4	2624.5714	49.58	-46.96	27.55	-65.09	-13.00	52.09	172	297	Horizontal
5	2875.4286	53.16	-46.66	28.05	-60.71	-13.00	47.71	133	297	Horizontal
6	5000	47.93	-45.81	31.40	-61.74	-13.00	48.74	261	77	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1125.1429	57.03	-48.36	25.24	-61.35	-13.00	48.35	244	92	Vertical
2	1374.8571	59.33	-48.03	25.11	-58.85	-13.00	45.85	175	113	Vertical
3	2375.4286	55.26	-47.46	26.95	-60.51	-13.00	47.51	166	272	Vertical
4	2624.5714	48.47	-46.96	27.55	-66.20	-13.00	53.20	259	92	Vertical
5	2874.2857	55.18	-46.66	28.05	-58.69	-13.00	45.69	184	282	Vertical
6	5000	49.59	-45.81	31.40	-60.08	-13.00	47.08	166	63	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

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	10.40	0.005532	PASS
Band II	9400	VN	NT	11.29	0.006005	PASS
Band II	9400	VH	NT	10.79	0.005739	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-0.71	-0.000849	±2.5	PASS
Band V	4182	VN	NT	-1.07	-0.001279	±2.5	PASS
Band V	4182	VH	NT	-0.67	-0.000801	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	10.69	0.005686	PASS
Band II	9400	NV	-20	10.68	0.005681	PASS
Band II	9400	NV	-10	11.09	0.005899	PASS
Band II	9400	NV	0	11.54	0.006138	PASS
Band II	9400	NV	10	10.84	0.005766	PASS
Band II	9400	NV	20	10.40	0.005532	PASS
Band II	9400	NV	30	10.19	0.005420	PASS
Band II	9400	NV	40	10.62	0.005649	PASS
Band II	9400	NV	50	10.69	0.005686	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	-0.80	-0.000956	±2.5	PASS
Band V	4182	NV	-20	-1.17	-0.001399	±2.5	PASS
Band V	4182	NV	-10	-0.91	-0.001088	±2.5	PASS
Band V	4182	NV	0	-0.82	-0.000980	±2.5	PASS
Band V	4182	NV	10	-0.74	-0.000885	±2.5	PASS
Band V	4182	NV	20	-0.94	-0.001124	±2.5	PASS
Band V	4182	NV	30	-1.14	-0.001363	±2.5	PASS
Band V	4182	NV	40	-1.16	-0.001387	±2.5	PASS
Band V	4182	NV	50	-0.80	-0.000956	±2.5	PASS

---End of Attachment---



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