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Appendix B.2

WCDMA Band II&IV&V



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant13:

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
BandII	9262	24.32	23.12	33	PASS
BandII	9400	24.10	22.90	33	PASS
BandII	9538	23.80	22.60	33	PASS
BandIV	1312	24.04	21.84	30	PASS
BandIV	1413	24.09	21.89	30	PASS
BandIV	1513	24.13	21.93	30	PASS

Ant13:

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
BandV	4132	23.88	17.23	38.5	PASS
BandV	4182	24.04	17.39	38.5	PASS
BandV	4233	24.15	17.50	38.5	PASS



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Peak-to-Average Ratio

Test Result

Band	Channel	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
BandII	9262	2.98	13	PASS
BandII	9400	3.00	13	PASS
BandII	9538	2.94	13	PASS
BandIV	1312	2.98	13	PASS
BandIV	1413	3.04	13	PASS
BandIV	1513	3.04	13	PASS
BandV	4132	2.94	13	PASS
BandV	4182	2.98	13	PASS
BandV	4233	3.04	13	PASS



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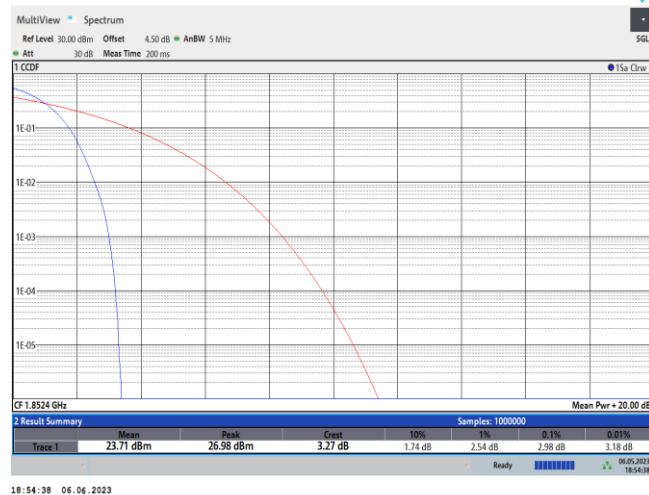
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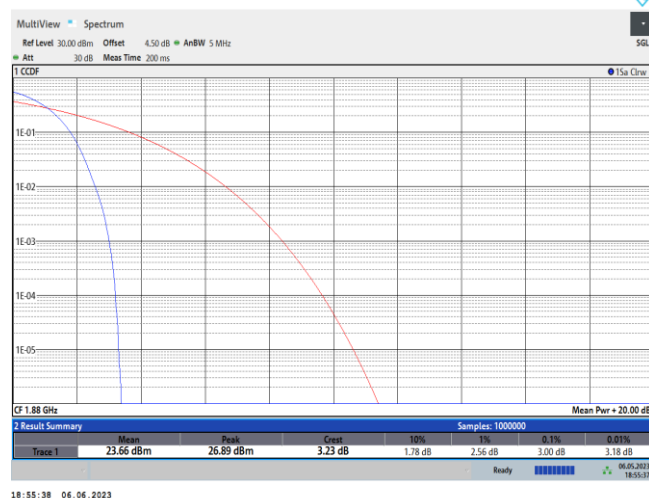
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Test Graphs

BandII-9262



BandII-9400

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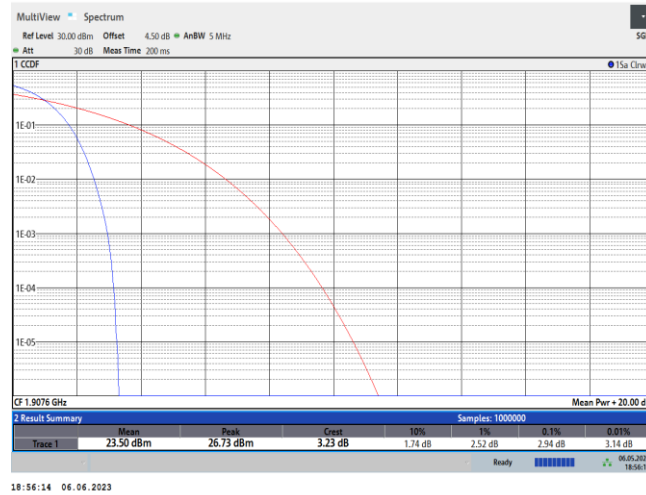
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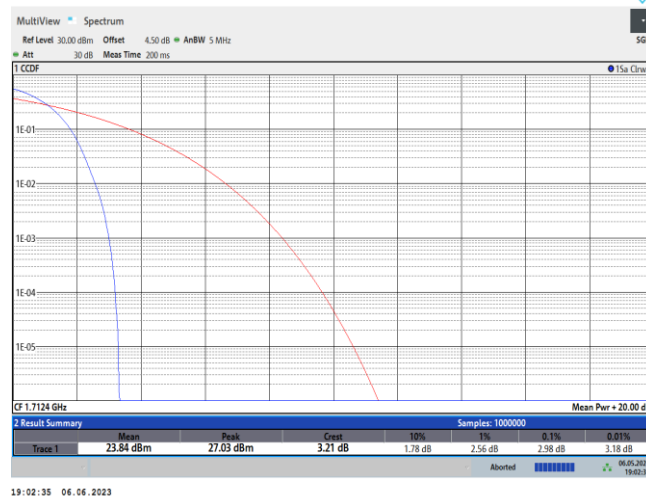
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BandII-9538



BandIV-1312



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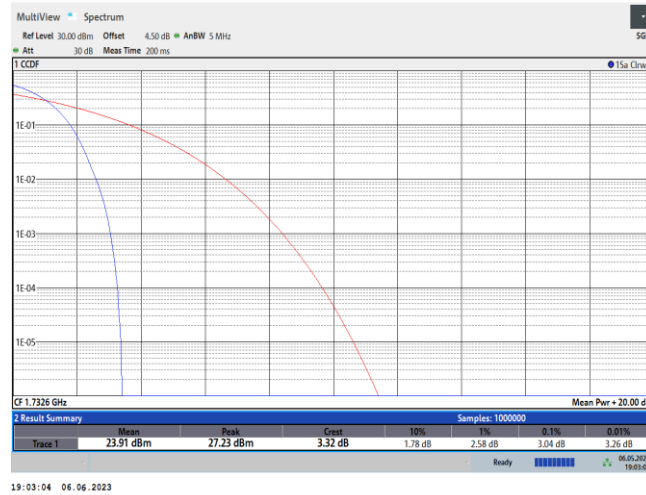
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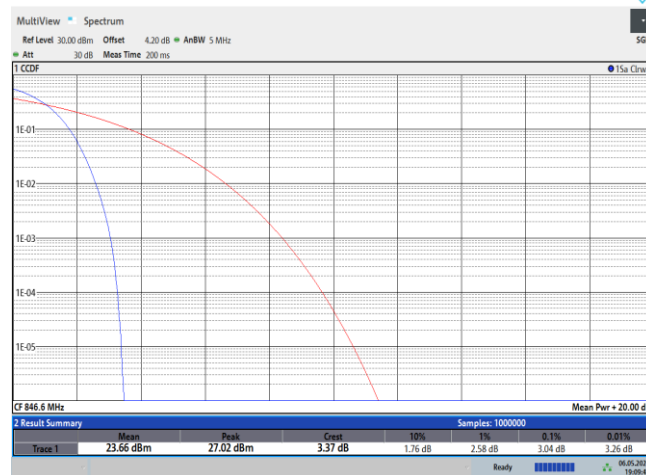
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BandIV-1413



19:03:04 06.06.2023

BandIV-1513



19:09:42 06.06.2023



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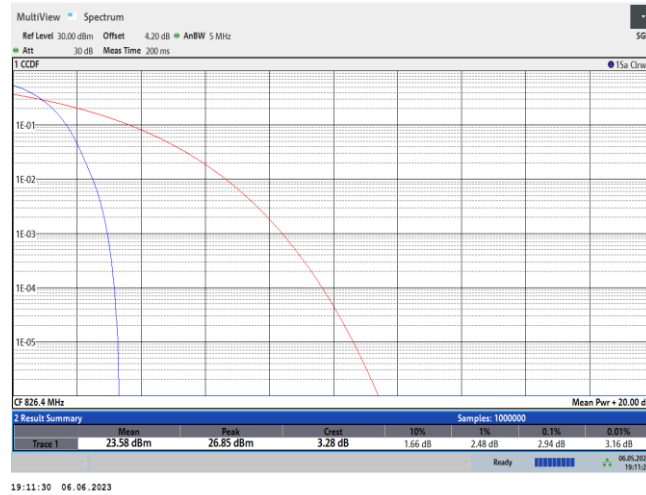
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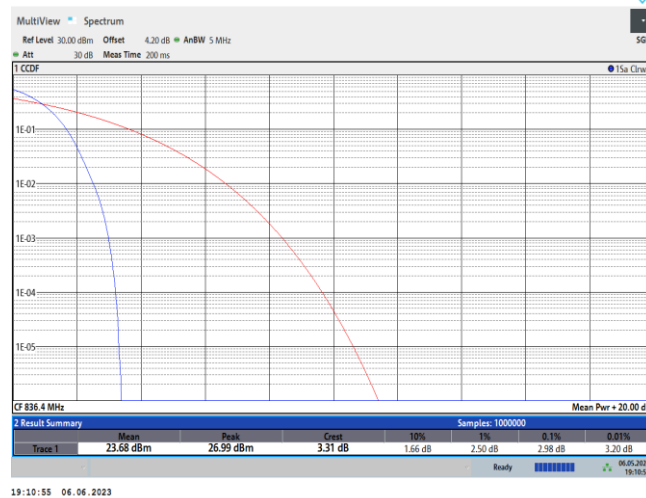
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BandV-4132



BandV-4182



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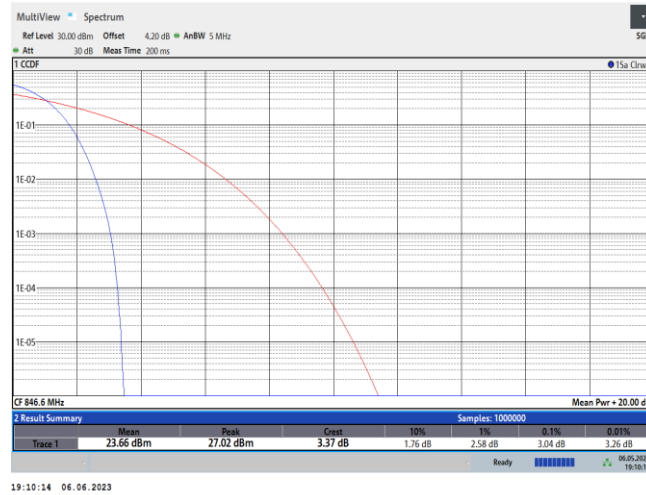
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Modulation Characteristics

Test Result

Band	Channel	Result	Verdict
BandII	9400	PASS	PASS
BandIV	1413	PASS	PASS
BandV	4182	PASS	PASS



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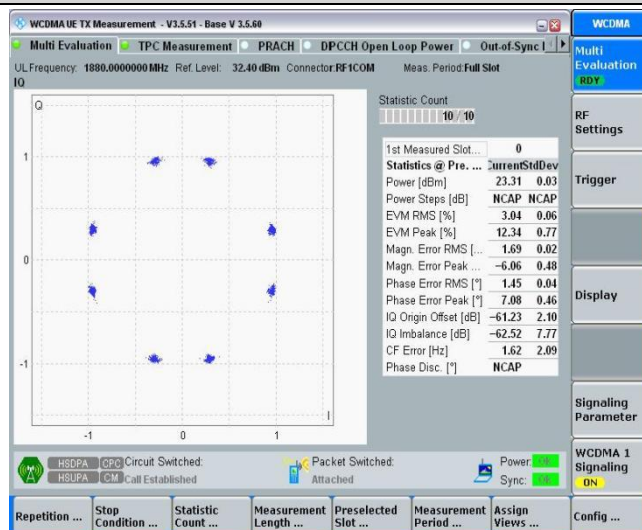
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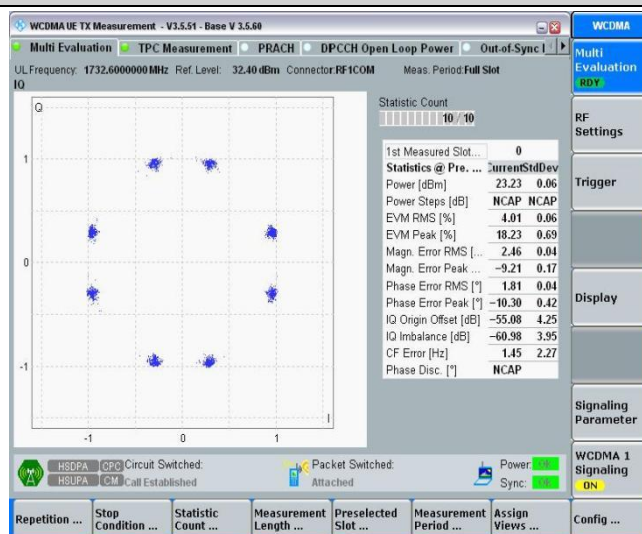
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Test Graphs

BandII-9400



BandIV-1413



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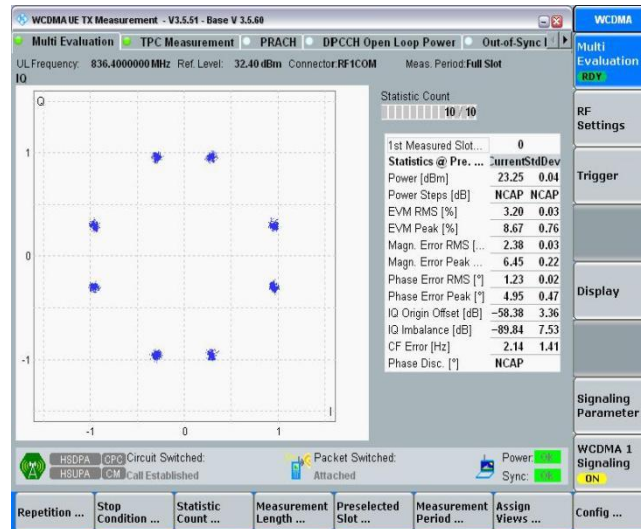
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BandV-4182



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(kHz)	Verdict
BandII	9262	4.167	4.76	---	PASS
BandII	9400	4.172	4.76	---	PASS
BandII	9538	4.171	4.76	---	PASS
BandIV	1312	4.147	4.72	---	PASS
BandIV	1413	4.151	4.75	---	PASS
BandIV	1513	4.143	4.73	---	PASS
BandV	4132	4.139	4.74	---	PASS
BandV	4182	4.142	4.74	---	PASS
BandV	4233	4.149	4.75	---	PASS



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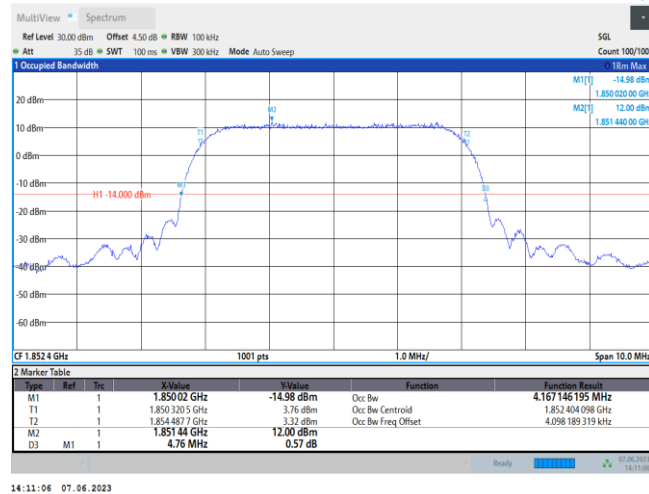
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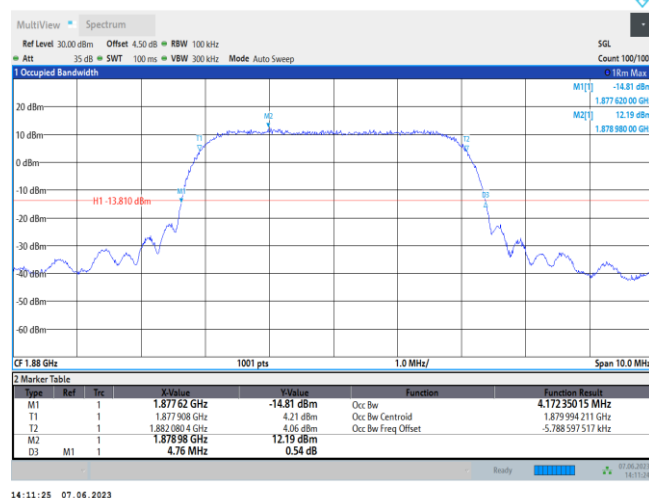
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Test Graphs

BandII-9262



BandII-9400

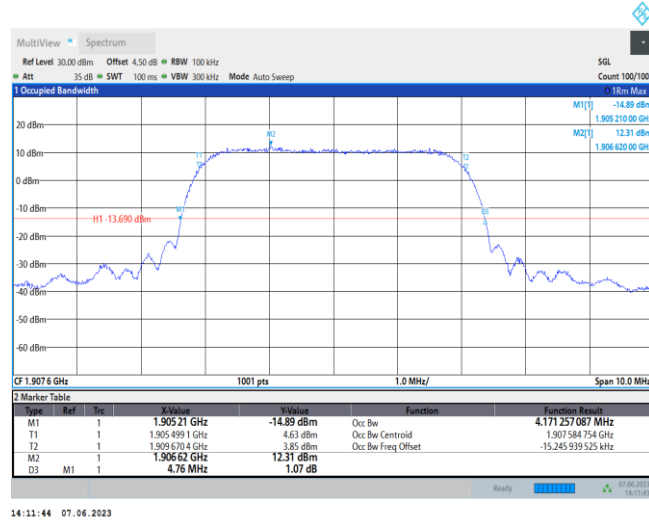


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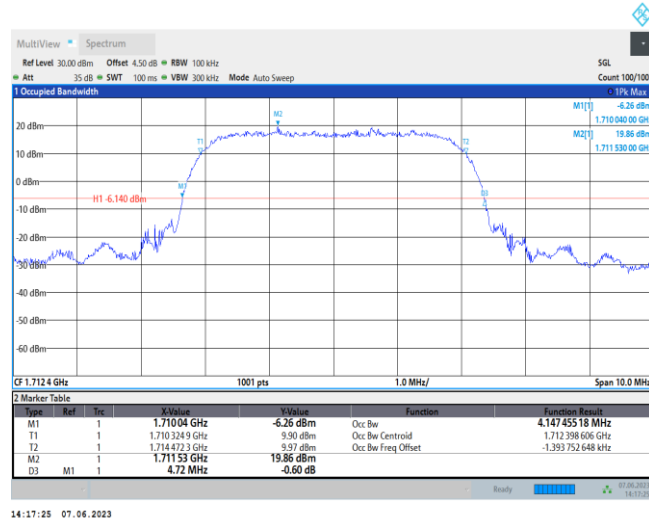
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BandII-9538



BandIV-1312

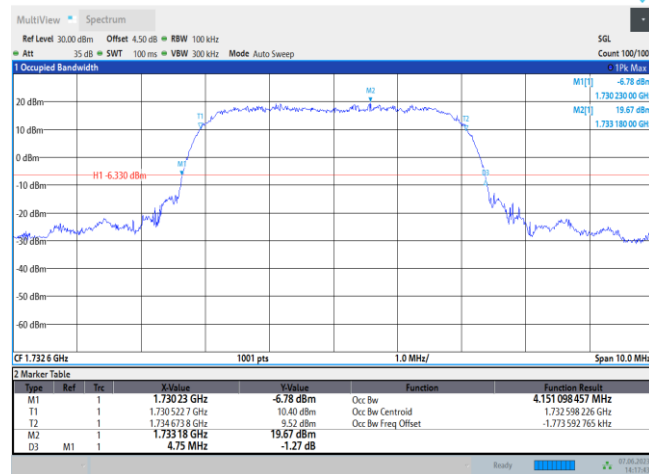


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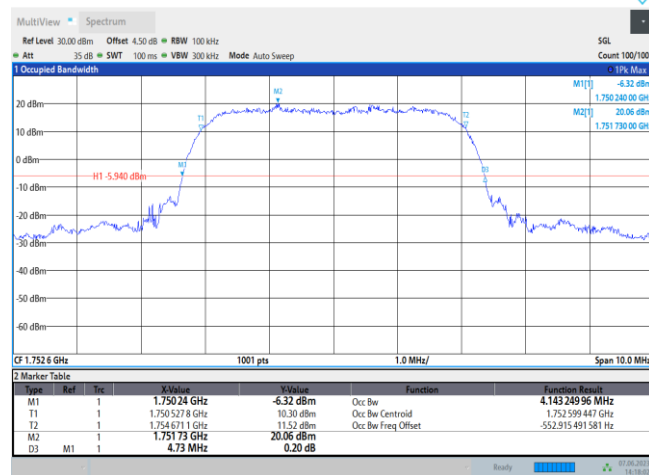
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BandIV-1413



BandIV-1513

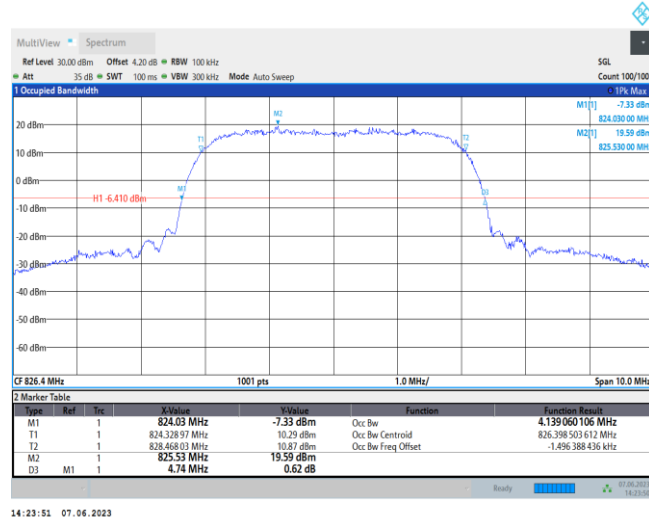


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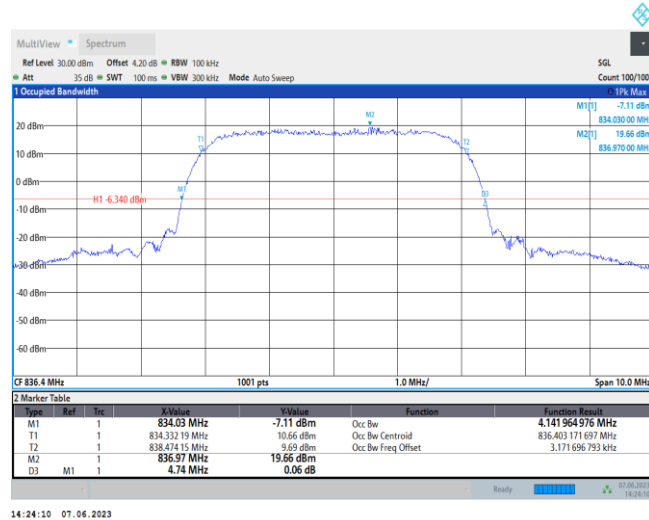
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BandV-4132



BandV-4182

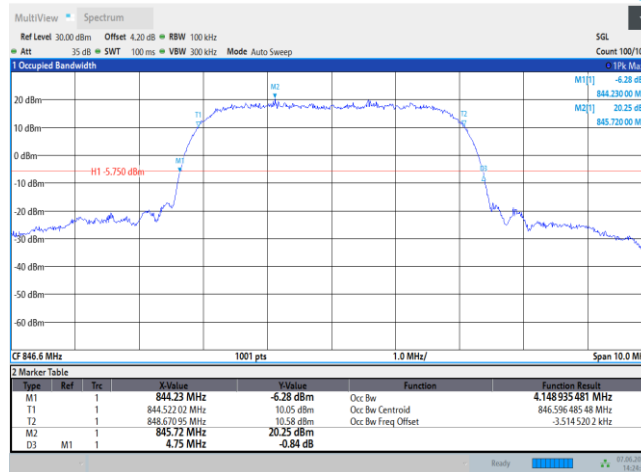


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BandV-4233



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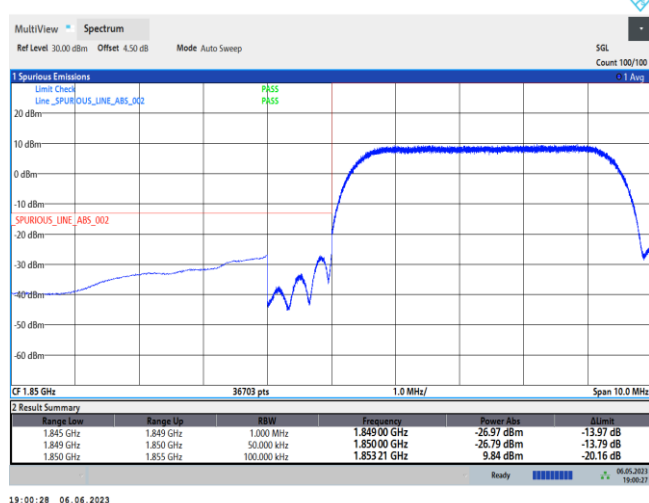
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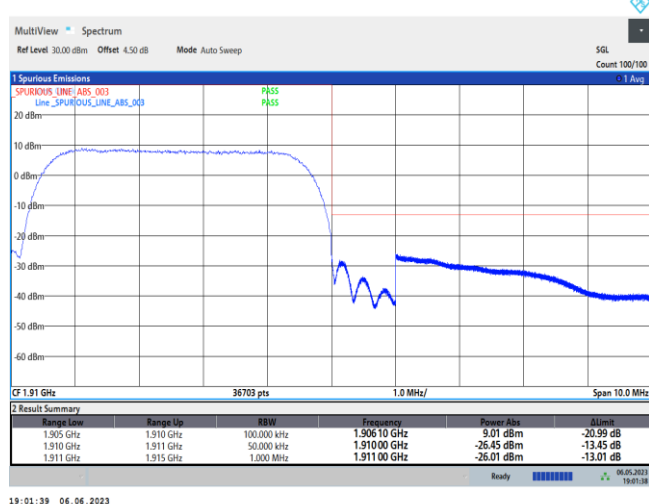
Band Edge

Test Graphs

BandII-9262



BandII-9538



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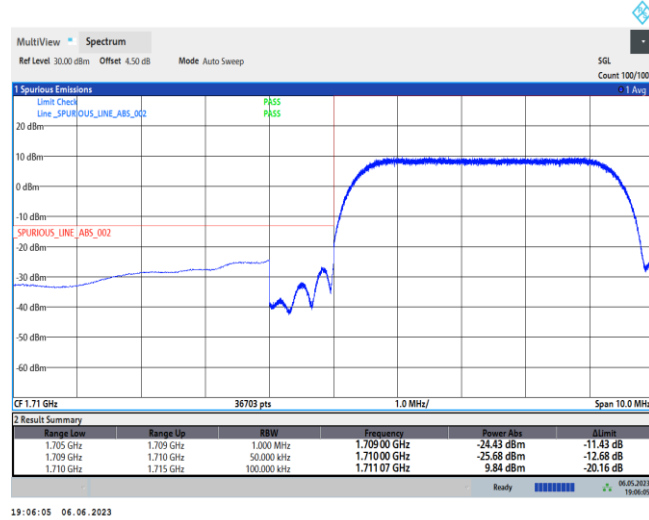
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BandIV-1312



BandIV-1513



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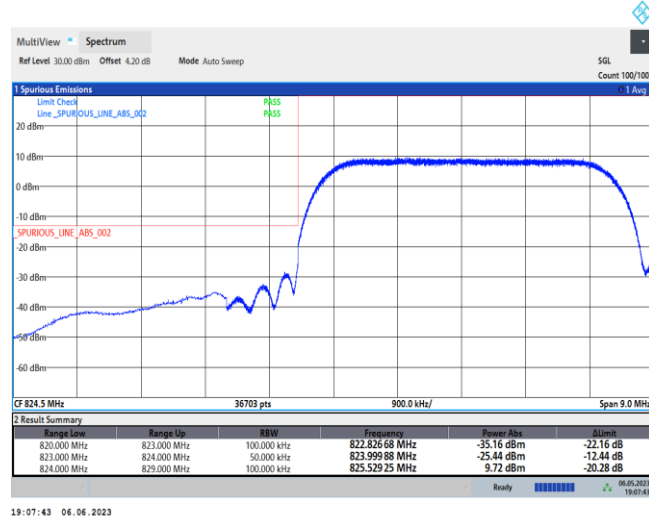
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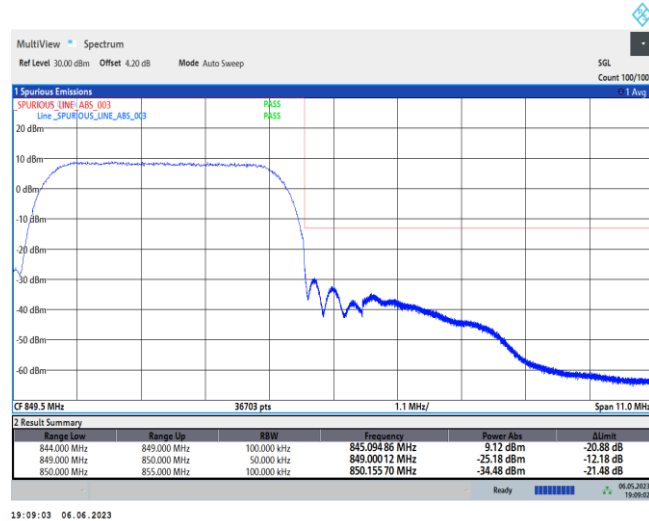
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BandV-4132



BandV-4233



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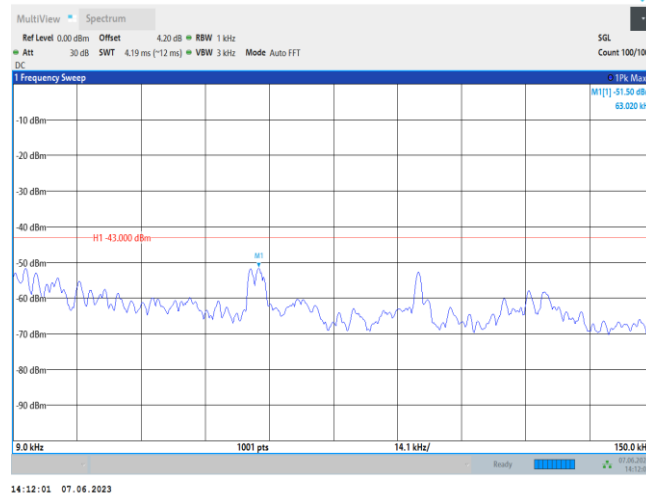
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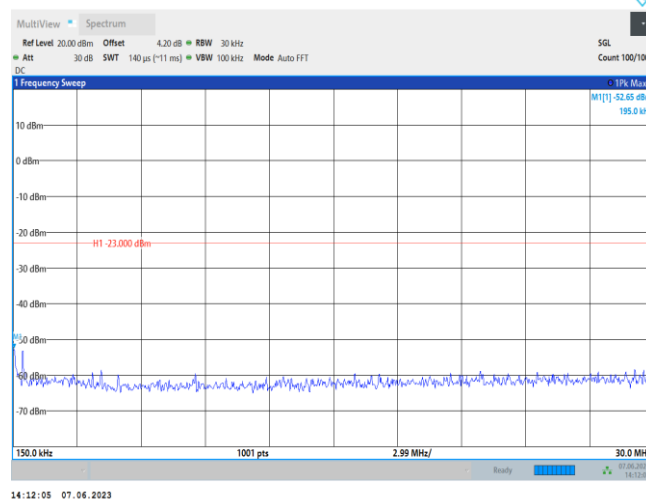
Conducted Spurious Emission

Test Graphs

BandII-9262-0.009~0.15MHz



BandII-9262-0.15~30MHz



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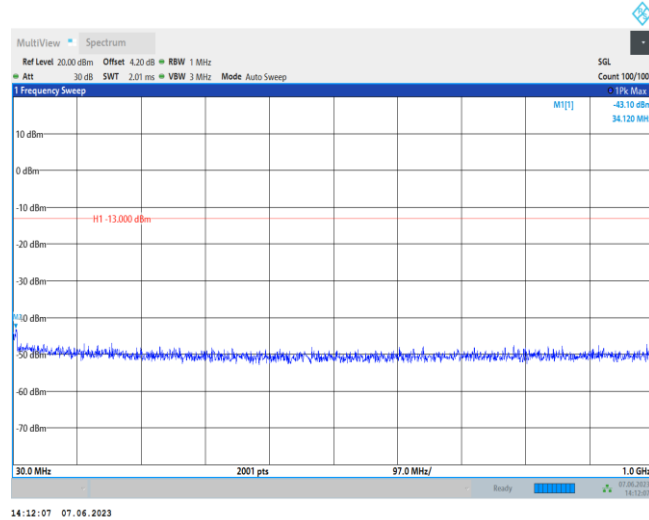
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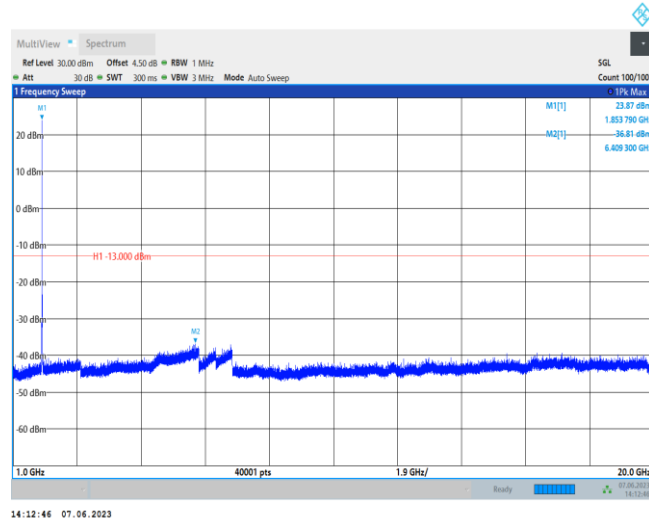
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BandII-9262-30~1000MHz



BandII-9262-1000~20000MHz



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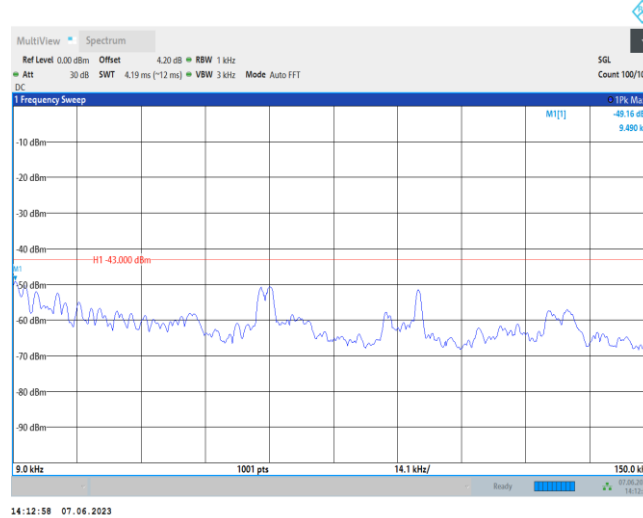
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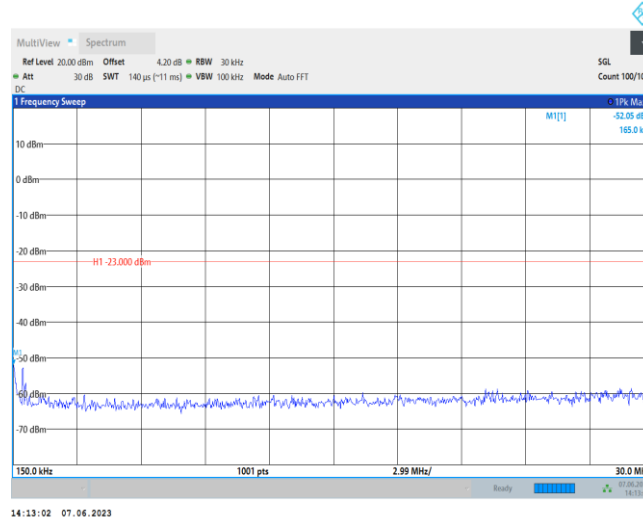
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BandII-9400-0.009~0.15MHz



BandII-9400-0.15~30MHz



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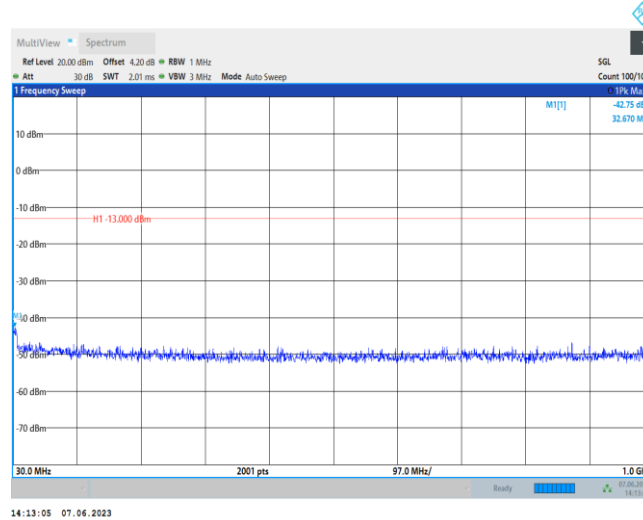
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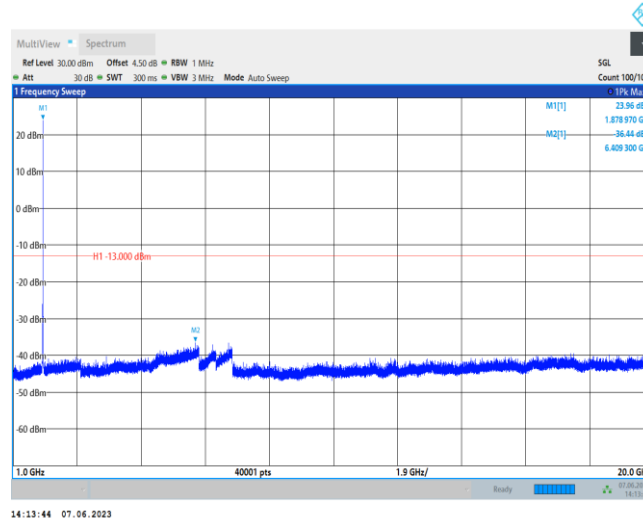
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BandII-9400-30~1000MHz



BandII-9400-1000~20000MHz



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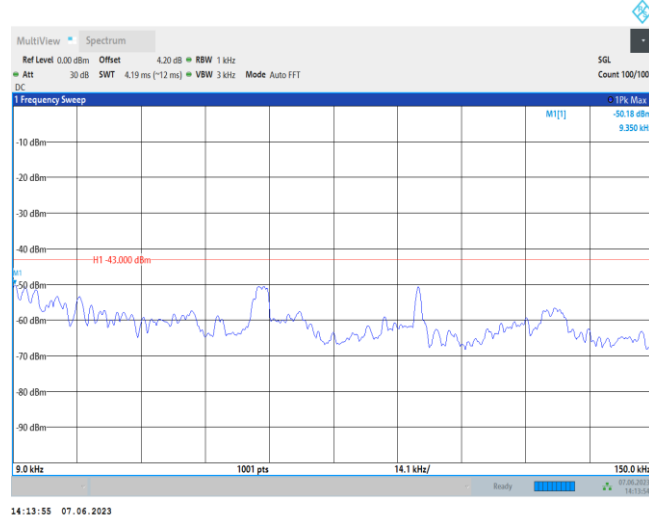
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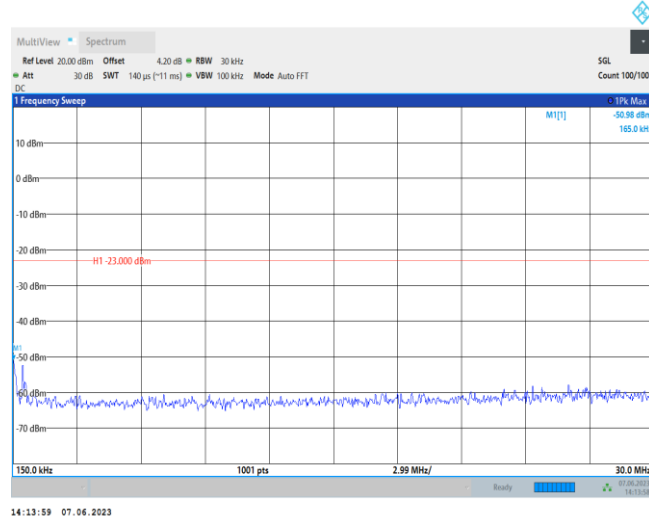
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BandII-9538-0.009~0.15MHz



BandII-9538-0.15~30MHz



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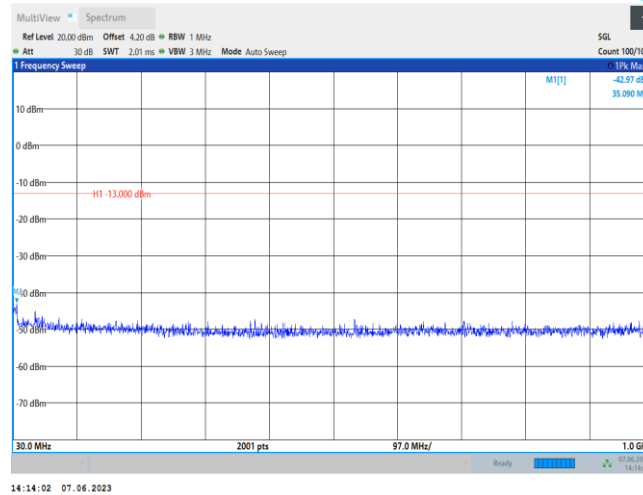
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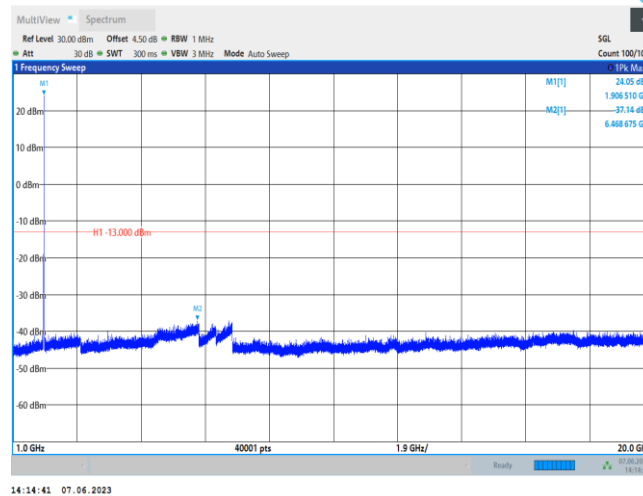
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BandII-9538-30~1000MHz



BandII-9538-1000~20000MHz



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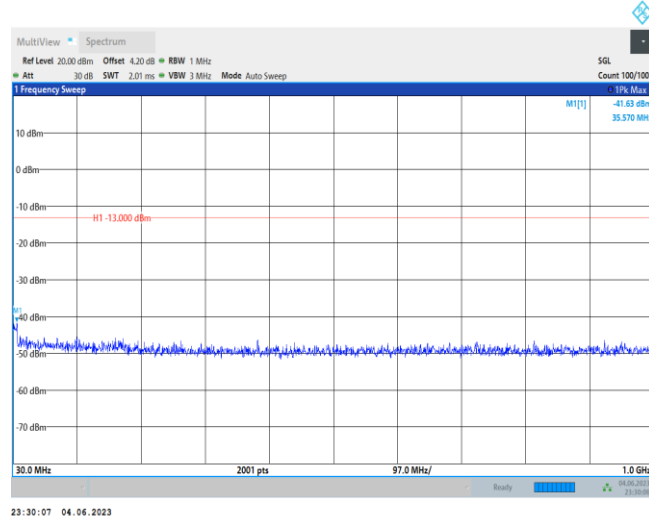
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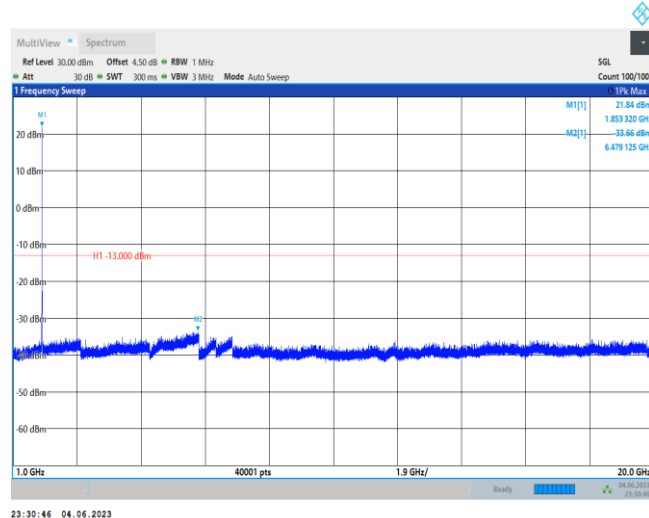
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BandII-9262-30~1000MHz



BandII-9262-1000~20000MHz



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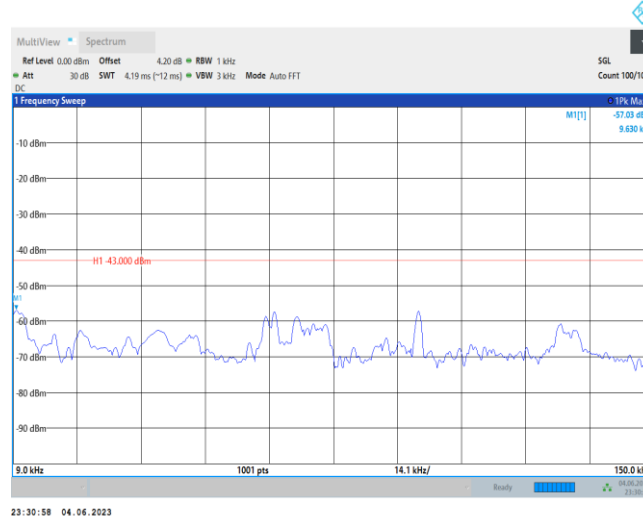
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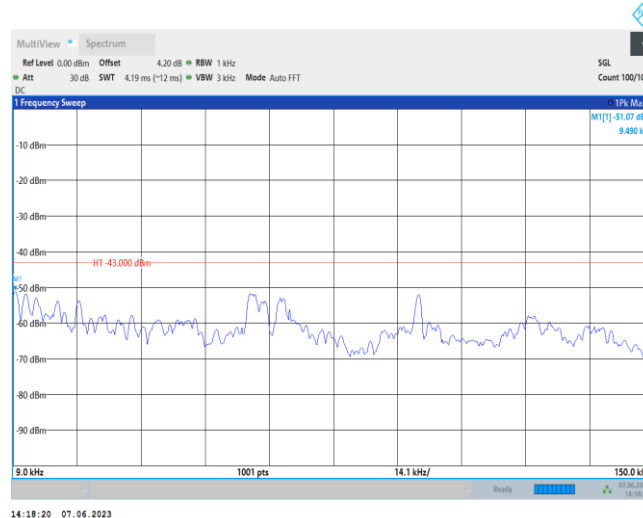
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BandII-9400-0.009~0.15MHz



BandIV-1312-0.009~0.15MHz



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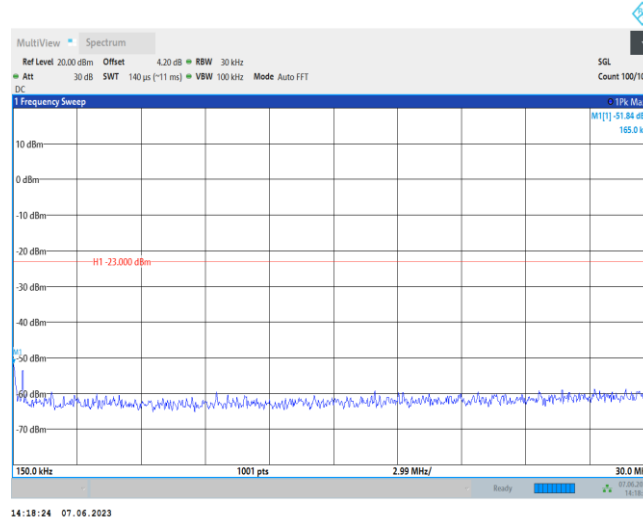
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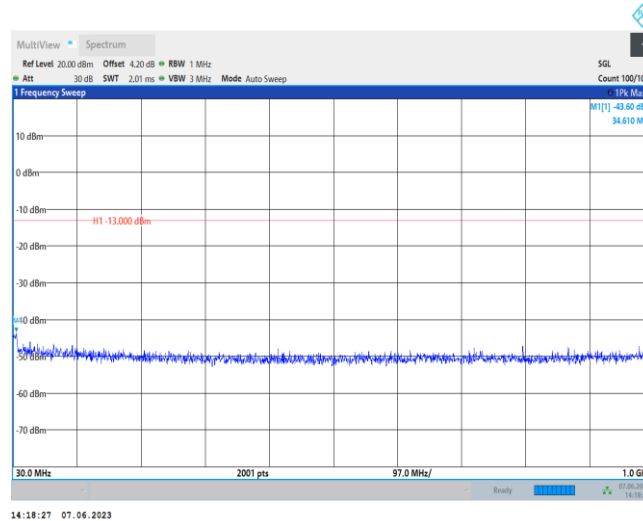
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BandIV-1312-0.15~30MHz



BandIV-1312-30~1000MHz



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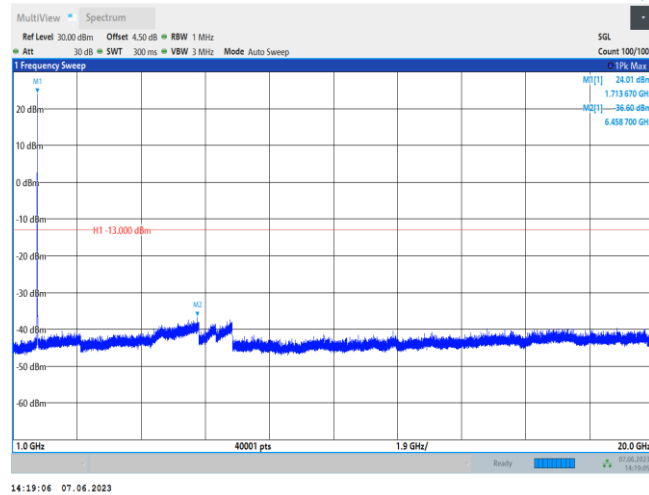
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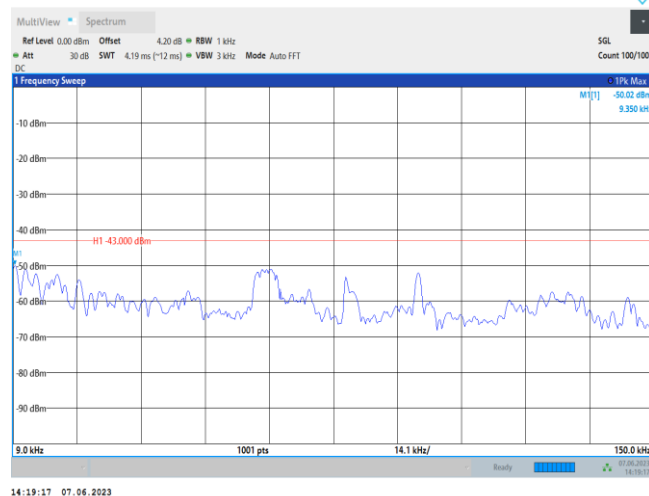
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BandIV-1312-1000~20000MHz



BandIV-1413-0.009~0.15MHz



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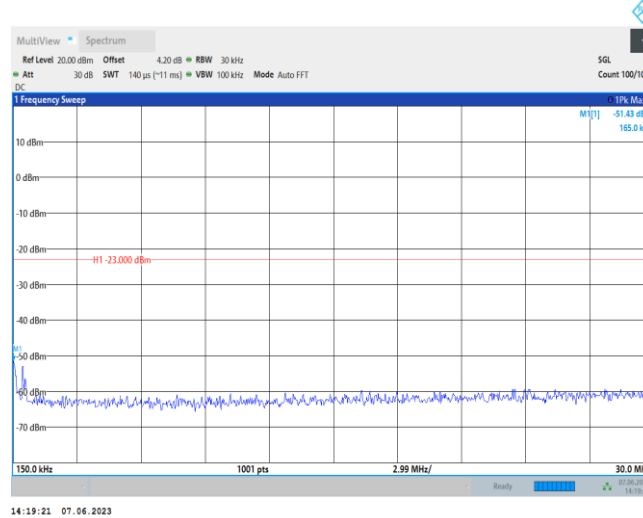
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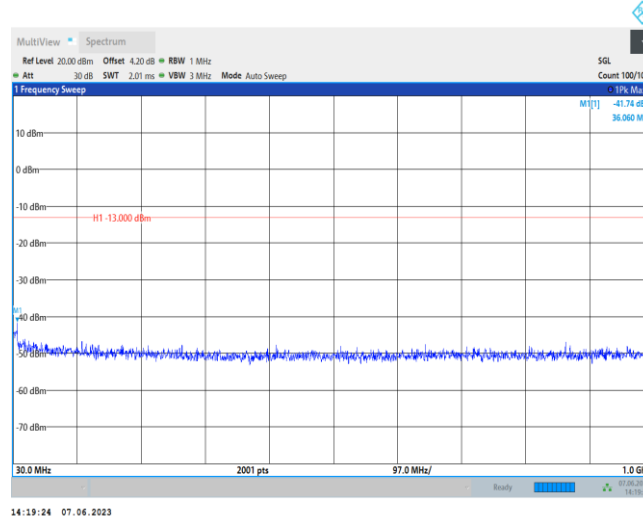
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BandIV-1413-0.15~30MHz



BandIV-1413-30~1000MHz



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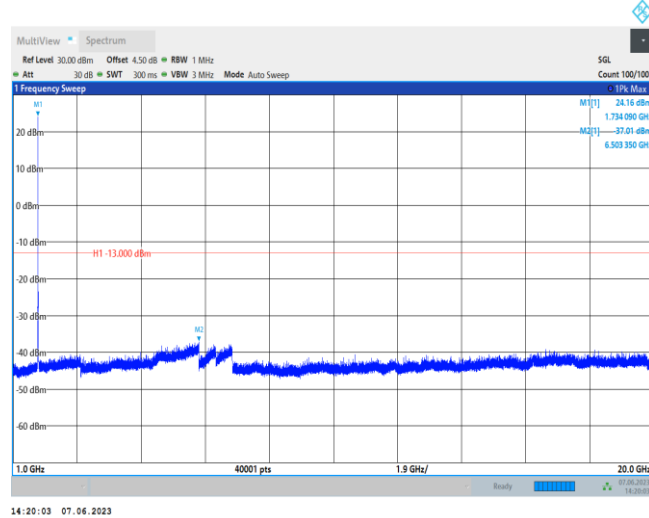
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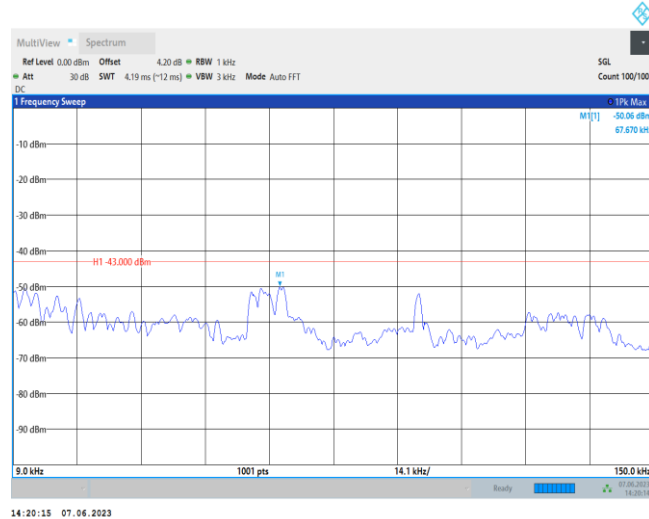
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BandIV-1413-1000~20000MHz



BandIV-1513-0.009~0.15MHz



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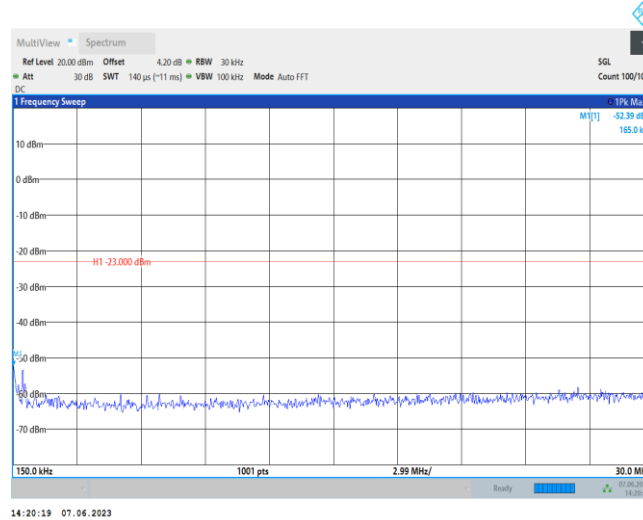
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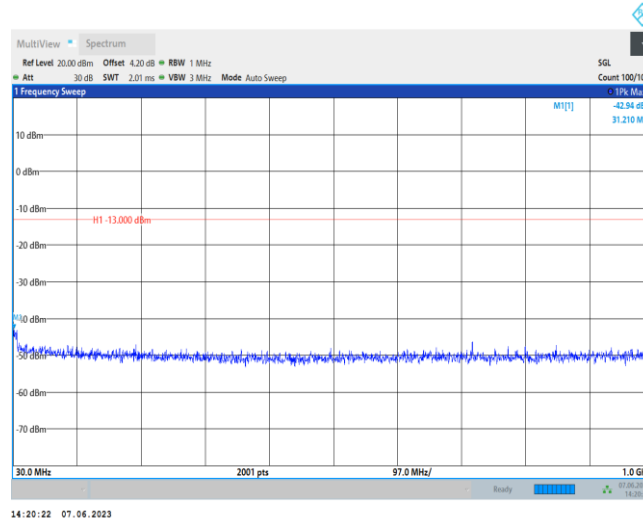
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BandIV-1513-0.15~30MHz



BandIV-1513-30~1000MHz



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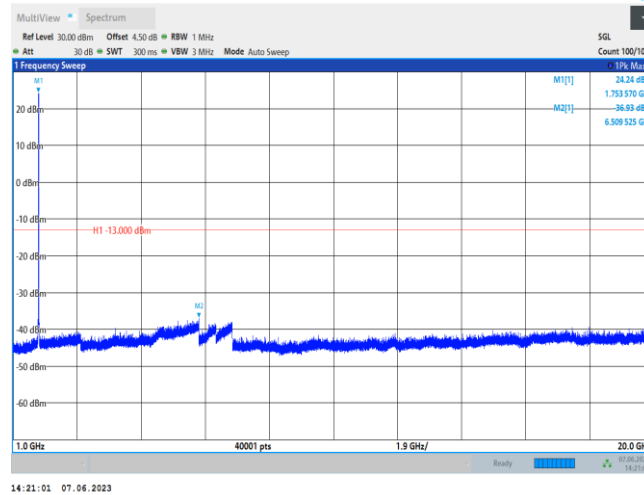
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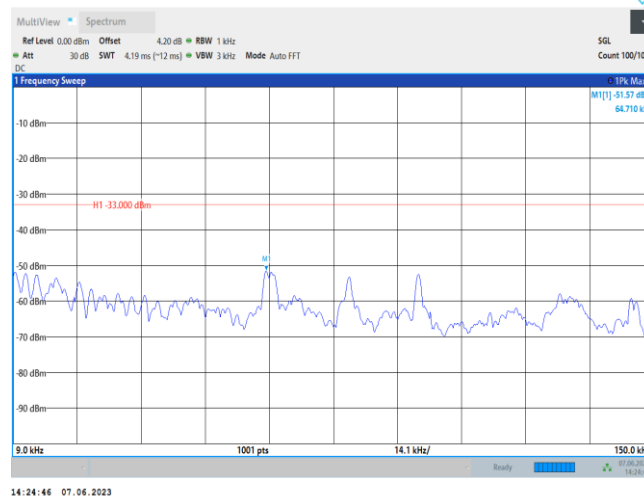
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BandIV-1513-1000~20000MHz



BandV-4132-0.009~0.15MHz



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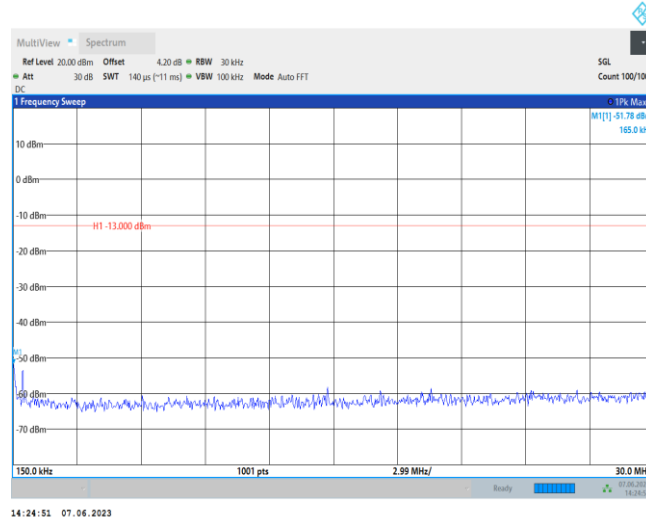
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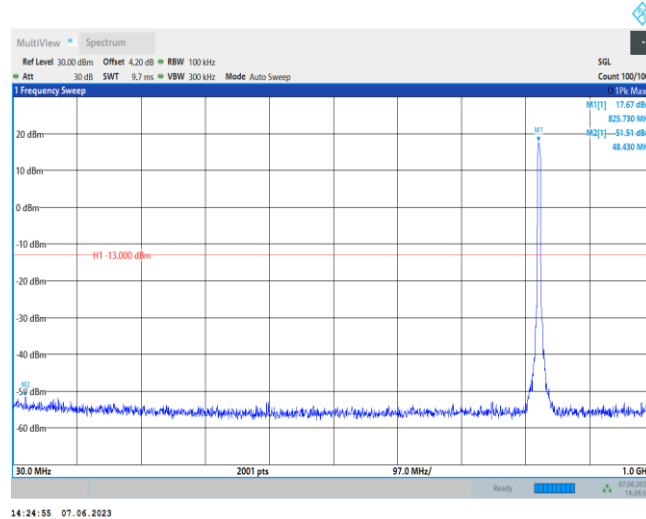
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BandV-4132-0.15~30MHz



BandV-4132-30~1000MHz



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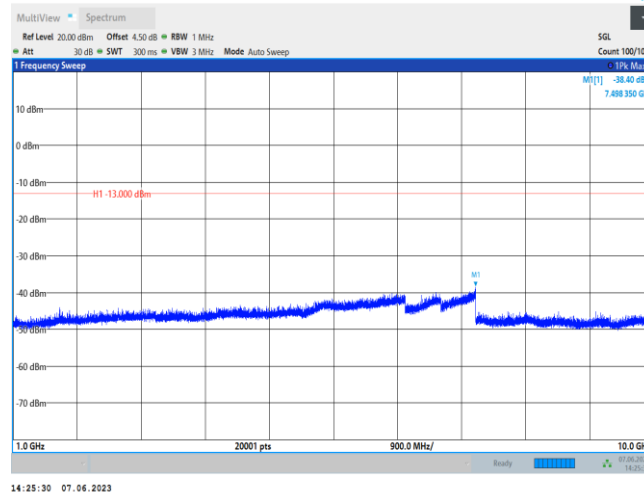
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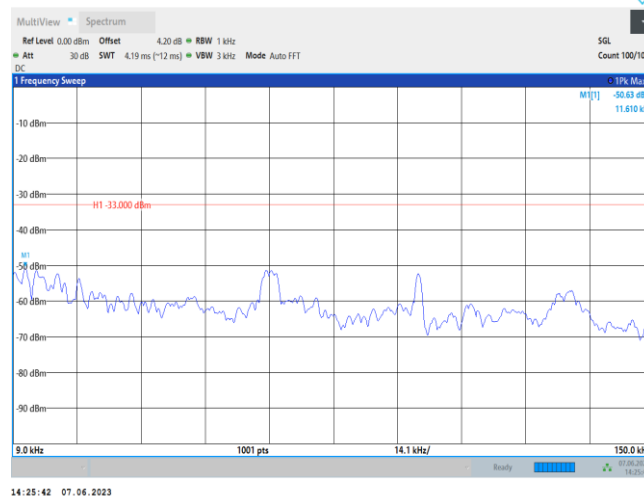
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BandV-4132-1000~10000MHz



BandV-4182-0.009~0.15MHz



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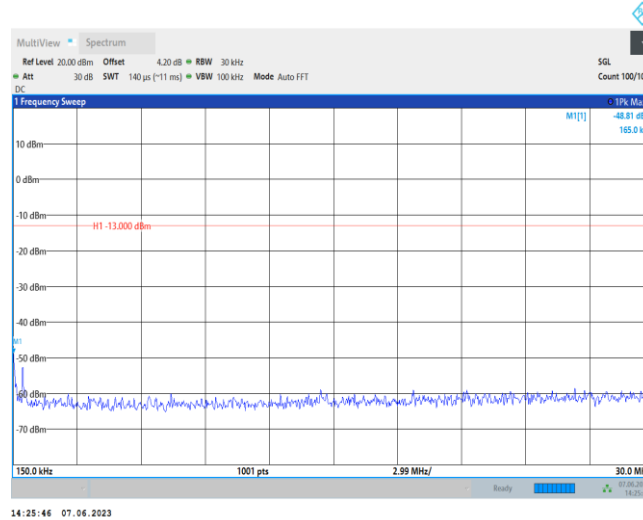
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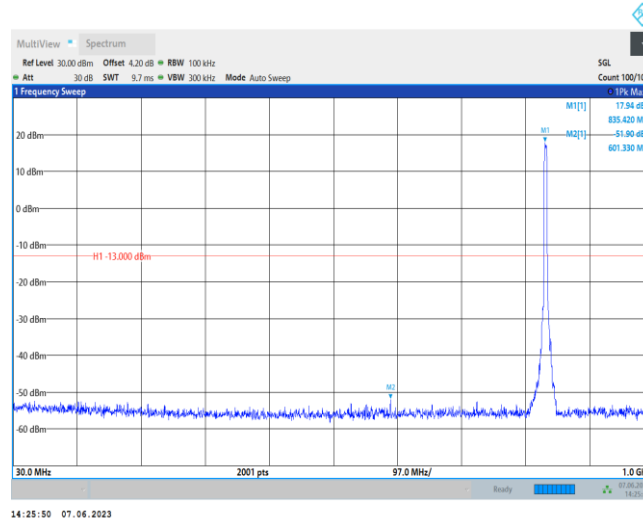
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BandV-4182-0.15~30MHz



BandV-4182-30~1000MHz



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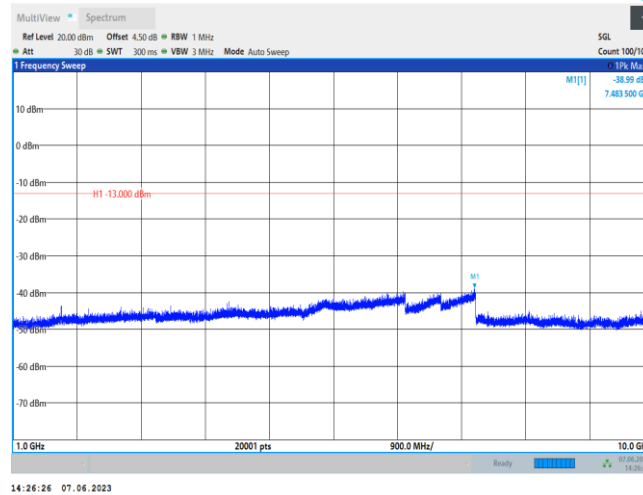
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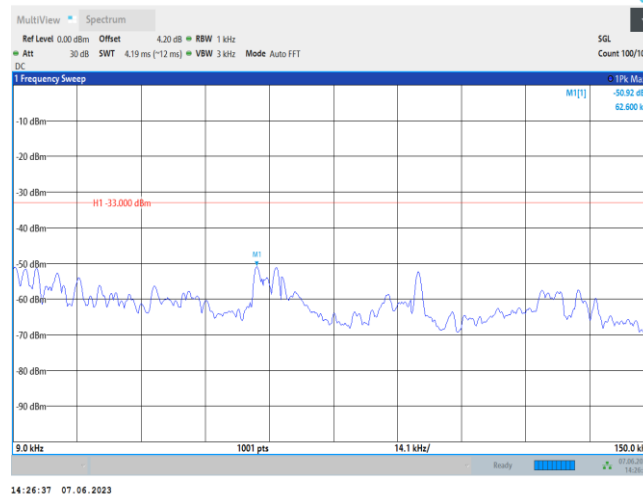
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BandV-4182-1000~10000MHz



BandV-4233-0.009~0.15MHz



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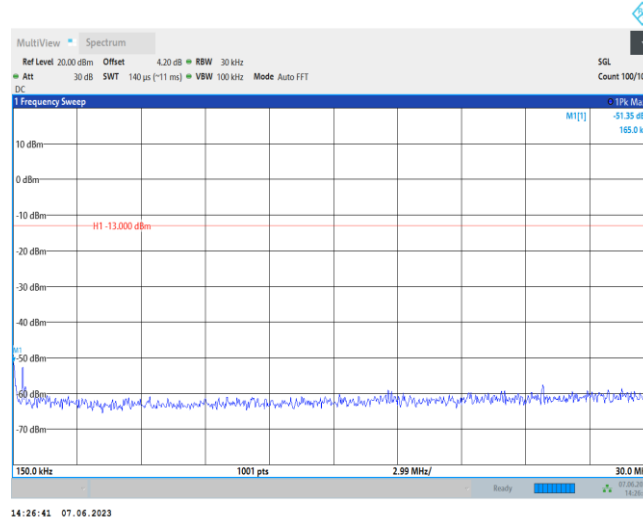
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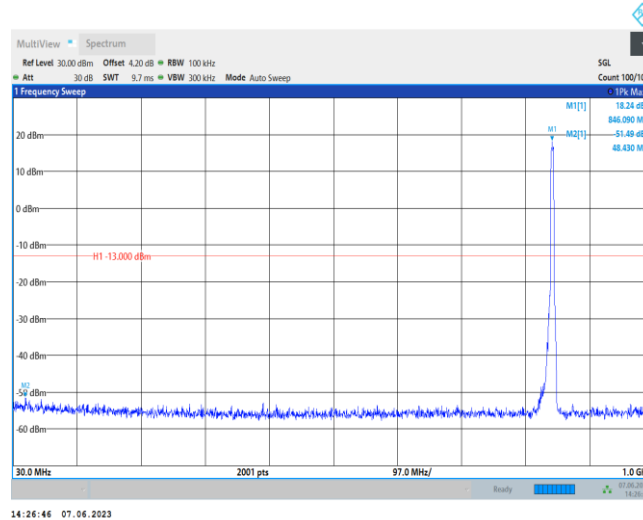
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BandV-4233-30~1000MHz



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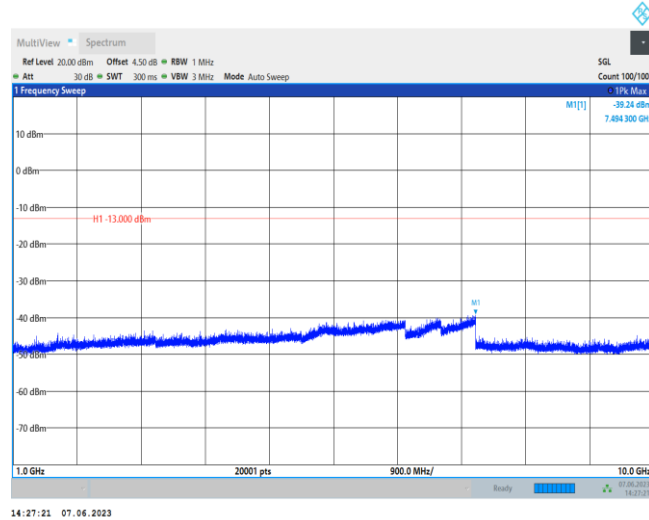
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BandV-4233-1000~10000MHz

SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Wireless Laboratory

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Field Strength of Spurious Radiation**Test Band = WCDMA II_ TM1_ Ant13****Test Channel = Low Channel**

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	42.29	-45.69	29.89	-68.76	-13.00	55.76	184	360	Horizontal
2	5557.2	40.88	-43.87	32.78	-65.47	-13.00	52.47	296	3	Horizontal
3	7409.6	37.76	-41.94	36.45	-63.00	-13.00	50.00	234	81	Horizontal
4	9262	33.22	-38.39	38.57	-61.86	-13.00	48.86	185	297	Horizontal
5	11114.4	31.34	-35.32	39.49	-59.75	-13.00	46.75	167	215	Horizontal
6	12966.8	33.16	-34.90	39.57	-57.43	-13.00	44.43	209	3	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	42.14	-45.69	29.89	-68.91	-13.00	55.91	299	360	Vertical
2	5557.2	40.36	-43.87	32.78	-65.99	-13.00	52.99	186	81	Vertical
3	7409.6	37.91	-41.94	36.45	-62.85	-13.00	49.85	271	360	Vertical
4	9262	33.26	-38.39	38.57	-61.82	-13.00	48.82	148	360	Vertical
5	11114.4	32.17	-35.32	39.49	-58.92	-13.00	45.92	292	3	Vertical
6	12966.8	33.42	-34.90	39.57	-57.17	-13.00	44.17	135	278	Vertical



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Test Band = WCDMA II_ TM1_ Ant13
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	41.44	-45.54	30.03	-69.33	-13.00	56.33	248	359	Horizontal
2	5640	40.17	-43.81	33.05	-65.85	-13.00	52.85	191	354	Horizontal
3	7520	37.47	-41.53	36.54	-62.78	-13.00	49.78	262	359	Horizontal
4	9400	34.52	-38.16	38.56	-60.34	-13.00	47.34	135	266	Horizontal
5	11280	30.90	-35.28	39.32	-60.32	-13.00	47.32	244	251	Horizontal
6	13160	30.57	-34.68	39.70	-59.67	-13.00	46.67	175	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	41.64	-45.54	30.03	-69.13	-13.00	56.13	185	63	Vertical
2	5640	40.69	-43.81	33.05	-65.33	-13.00	52.33	244	128	Vertical
3	7520	37.39	-41.53	36.54	-62.86	-13.00	49.86	196	179	Vertical
4	9400	34.82	-38.16	38.56	-60.04	-13.00	47.04	234	94	Vertical
5	11280	30.65	-35.28	39.32	-60.57	-13.00	47.57	174	144	Vertical
6	13160	31.47	-34.68	39.70	-58.77	-13.00	45.77	178	359	Vertical



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Test Band = WCDMA II_ TM1_ Ant13

Test Channel = High Channel

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	42.49	-45.44	30.16	-68.05	-13.00	55.05	247	315	Horizontal
2	5722.8	39.73	-43.67	33.31	-65.89	-13.00	52.89	188	167	Horizontal
3	7630	38.45	-41.28	36.76	-61.33	-13.00	48.33	149	234	Horizontal
4	9538	36.10	-38.13	38.55	-58.74	-13.00	45.74	269	333	Horizontal
5	11445.6	31.48	-35.32	39.15	-59.95	-13.00	46.95	285	358	Horizontal
6	13353.2	31.98	-35.15	39.81	-58.62	-13.00	45.62	167	346	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	42.62	-45.44	30.16	-67.92	-13.00	54.92	211	49	Vertical
2	5722.8	40.03	-43.67	33.31	-65.59	-13.00	52.59	185	82	Vertical
3	7630	37.79	-41.28	36.76	-61.99	-13.00	48.99	263	282	Vertical
4	9538	36.10	-38.13	38.55	-58.74	-13.00	45.74	316	198	Vertical
5	11445.6	31.45	-35.32	39.15	-59.98	-13.00	46.98	294	215	Vertical
6	13353.2	31.77	-35.15	39.81	-58.83	-13.00	45.83	174	248	Vertical



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Test Band = WCDMA IV_ TM1_ Ant13

Test Channel = Low Channel

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8	41.74	-45.87	29.43	-69.96	-13.00	56.96	248	99	Horizontal
2	5137.2	39.89	-44.24	32.60	-67.01	-13.00	54.01	195	328	Horizontal
3	6849.6	40.50	-42.50	35.90	-61.36	-13.00	48.36	211	261	Horizontal
4	8562	36.39	-39.70	38.12	-60.45	-13.00	47.45	163	328	Horizontal
5	10274.4	33.09	-36.76	38.80	-60.13	-13.00	47.13	257	312	Horizontal
6	11986.8	31.97	-35.35	38.61	-60.02	-13.00	47.02	178	66	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8	41.72	-45.87	29.43	-69.98	-13.00	56.98	298	182	Vertical
2	5137.2	41.20	-44.24	32.60	-65.70	-13.00	52.70	167	360	Vertical
3	6849.6	40.04	-42.50	35.90	-61.82	-13.00	48.82	185	198	Vertical
4	8562	36.62	-39.70	38.12	-60.22	-13.00	47.22	177	358	Vertical
5	10274.4	32.99	-36.76	38.80	-60.23	-13.00	47.23	263	4	Vertical
6	11986.8	32.05	-35.35	38.61	-59.94	-13.00	46.94	248	360	Vertical



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Test Band = WCDMA IV_ TM1_ Ant13

Test Channel = Mid Channel

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	41.58	-45.77	29.41	-70.04	-13.00	57.04	278	332	Horizontal
2	5197.8	40.80	-44.15	32.60	-66.01	-13.00	53.01	123	66	Horizontal
3	6930.4	39.06	-42.48	36.06	-62.62	-13.00	49.62	238	166	Horizontal
4	8663	35.67	-39.54	38.23	-60.90	-13.00	47.90	175	283	Horizontal
5	10395.6	31.35	-36.49	38.94	-61.46	-13.00	48.46	196	316	Horizontal
6	12128.2	32.67	-35.20	38.73	-59.06	-13.00	46.06	128	199	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	41.59	-45.77	29.41	-70.03	-13.00	57.03	298	360	Vertical
2	5197.8	40.97	-44.15	32.60	-65.84	-13.00	52.84	176	64	Vertical
3	6930.4	39.57	-42.48	36.06	-62.11	-13.00	49.11	238	117	Vertical
4	8663	35.04	-39.54	38.23	-61.53	-13.00	48.53	274	47	Vertical
5	10395.6	31.60	-36.49	38.94	-61.21	-13.00	48.21	169	197	Vertical
6	12128.2	31.81	-35.20	38.73	-59.92	-13.00	46.92	226	360	Vertical



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Test Band = WCDMA IV_ TM1_ Ant13
Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2	41.70	-45.66	29.41	-69.81	-13.00	56.81	174	166	Horizontal
2	5257.8	40.05	-44.07	32.60	-66.68	-13.00	53.68	219	166	Horizontal
3	7010.4	39.84	-42.58	36.21	-61.79	-13.00	48.79	233	82	Horizontal
4	8763	35.39	-39.21	38.34	-60.74	-13.00	47.74	158	231	Horizontal
5	10515.6	31.66	-36.35	39.07	-60.89	-13.00	47.89	274	231	Horizontal
6	12268.2	31.21	-35.12	38.87	-60.30	-13.00	47.30	196	15	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2	41.71	-45.66	29.41	-69.80	-13.00	56.80	219	359	Vertical
2	5257.8	40.12	-44.07	32.60	-66.61	-13.00	53.61	266	335	Vertical
3	7010.4	40.09	-42.58	36.21	-61.54	-13.00	48.54	287	16	Vertical
4	8763	35.50	-39.21	38.34	-60.63	-13.00	47.63	145	266	Vertical
5	10515.6	32.57	-36.35	39.07	-59.98	-13.00	46.98	129	164	Vertical
6	12268.2	31.60	-35.12	38.87	-59.91	-13.00	46.91	284	360	Vertical



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Test Band = WCDMA V_ TM1_ Ant13

Test Channel = Low Channel

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2222	60.70	-48.37	25.57	-57.36	-13.00	44.36	218	3	Horizontal
2	2479.2	43.61	-46.91	27.86	-70.70	-13.00	57.70	159	15	Horizontal
3	3305.6	42.91	-46.12	29.48	-68.99	-13.00	55.99	234	124	Horizontal
4	4132	42.94	-45.31	30.81	-66.82	-13.00	53.82	175	221	Horizontal
5	4958.4	42.32	-45.07	32.50	-65.51	-13.00	52.51	288	360	Horizontal
6	5784.8	42.42	-43.52	33.51	-62.85	-13.00	49.85	179	266	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1654.2222	52.01	-48.37	25.57	-66.05	-13.00	53.05	289	252	Vertical
2	2479.2	44.30	-46.91	27.86	-70.01	-13.00	57.01	177	1	Vertical
3	3305.6	43.78	-46.12	29.48	-68.12	-13.00	55.12	145	329	Vertical
4	4132	42.16	-45.31	30.81	-67.60	-13.00	54.60	296	112	Vertical
5	4958.4	41.88	-45.07	32.50	-65.95	-13.00	52.95	135	0	Vertical
6	5784.8	41.86	-43.52	33.51	-63.41	-13.00	50.41	287	0	Vertical



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Test Band = WCDMA V_ TM1_ Ant13
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1674.6667	66.02	-48.31	25.56	-51.99	-13.00	38.99	258	351	Horizontal
2	2509.2	43.25	-46.79	27.93	-70.86	-13.00	57.86	121	233	Horizontal
3	3345.6	43.33	-46.19	29.46	-68.66	-13.00	55.66	270	76	Horizontal
4	4182	41.76	-45.16	30.89	-67.77	-13.00	54.77	139	233	Horizontal
5	5018.4	42.73	-44.93	32.60	-64.86	-13.00	51.86	264	200	Horizontal
6	5854.8	42.04	-43.34	33.74	-62.82	-13.00	49.82	182	360	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1674.6667	58.70	-48.31	25.56	-59.31	-13.00	46.31	241	266	Vertical
2	2509.2	43.55	-46.79	27.93	-70.56	-13.00	57.56	188	0	Vertical
3	3345.6	43.10	-46.19	29.46	-68.89	-13.00	55.89	296	8	Vertical
4	4182	41.90	-45.16	30.89	-67.63	-13.00	54.63	235	314	Vertical
5	5018.4	42.28	-44.93	32.60	-65.31	-13.00	52.31	244	266	Vertical
6	5854.8	41.96	-43.34	33.74	-62.90	-13.00	49.90	128	266	Vertical



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Test Band = WCDMA V_ TM1_ Ant13

Test Channel = High Channel

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1694.6667	67.71	-48.25	25.55	-50.25	-13.00	37.25	185	360	Horizontal
2	2539.8	43.67	-46.94	28.04	-70.49	-13.00	57.49	274	359	Horizontal
3	3386.4	42.96	-46.26	29.45	-69.11	-13.00	56.11	166	310	Horizontal
4	4233	41.22	-45.11	30.97	-68.18	-13.00	55.18	293	263	Horizontal
5	5079.6	42.93	-44.67	32.60	-64.40	-13.00	51.40	288	46	Horizontal
6	5926.2	42.36	-43.29	33.96	-62.23	-13.00	49.23	175	77	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1694.6667	55.96	-48.25	25.55	-62.00	-13.00	49.00	297	80	Vertical
2	2539.8	43.96	-46.94	28.04	-70.20	-13.00	57.20	142	297	Vertical
3	3386.4	43.09	-46.26	29.45	-68.98	-13.00	55.98	166	345	Vertical
4	4233	41.95	-45.11	30.97	-67.45	-13.00	54.45	235	345	Vertical
5	5079.6	42.65	-44.67	32.60	-64.68	-13.00	51.68	188	204	Vertical
6	5926.2	42.34	-43.29	33.96	-62.25	-13.00	49.25	197	265	Vertical



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Wireless Laboratory

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Test Band = WCDMA II_ TM1_ Ant31
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	43.54	-45.69	29.89	-67.51	-13.00	54.51	218	96	Horizontal
2	5557.2	40.56	-43.87	32.78	-65.79	-13.00	52.79	194	0	Horizontal
3	7409.6	38.46	-41.94	36.45	-62.30	-13.00	49.30	156	96	Horizontal
4	9262	33.52	-38.39	38.57	-61.56	-13.00	48.56	219	228	Horizontal
5	11114.4	32.58	-35.32	39.49	-58.51	-13.00	45.51	235	357	Horizontal
6	12966.8	33.04	-34.90	39.57	-57.55	-13.00	44.55	179	295	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	43.59	-45.69	29.89	-67.46	-13.00	54.46	196	0	Vertical
2	5557.2	41.05	-43.87	32.78	-65.30	-13.00	52.30	238	130	Vertical
3	7409.6	38.15	-41.94	36.45	-62.61	-13.00	49.61	175	16	Vertical
4	9262	33.83	-38.39	38.57	-61.25	-13.00	48.25	146	130	Vertical
5	11114.4	31.96	-35.32	39.49	-59.13	-13.00	46.13	288	16	Vertical
6	12966.8	32.91	-34.90	39.57	-57.68	-13.00	44.68	190	147	Vertical



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Test Band = WCDMA II_ TM1_ Ant31

Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3758.25	45.00	-45.54	30.02	-65.78	-13.00	52.78	147	131	Horizontal
2	5640	39.67	-43.81	33.05	-66.35	-13.00	53.35	219	0	Horizontal
3	7520	37.69	-41.53	36.54	-62.56	-13.00	49.56	263	181	Horizontal
4	9400	34.56	-38.16	38.56	-60.30	-13.00	47.30	288	1	Horizontal
5	11280	31.37	-35.28	39.32	-59.85	-13.00	46.85	145	1	Horizontal
6	13160	30.89	-34.68	39.70	-59.35	-13.00	46.35	170	198	Horizontal

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	45.96	-45.53	30.03	-64.81	-13.00	51.81	128	107	Vertical
2	5640	39.82	-43.81	33.05	-66.20	-13.00	53.20	199	0	Vertical
3	7520	38.24	-41.53	36.54	-62.01	-13.00	49.01	238	26	Vertical
4	9400	34.72	-38.16	38.56	-60.14	-13.00	47.14	175	312	Vertical
5	11280	31.25	-35.28	39.32	-59.97	-13.00	46.97	199	357	Vertical
6	13160	31.57	-34.68	39.70	-58.67	-13.00	45.67	246	26	Vertical



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Test Band = WCDMA II_ TM1_ Ant31

Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3813	47.48	-45.44	30.15	-63.07	-13.00	50.07	142	132	Horizontal
2	5722.8	40.29	-43.67	33.31	-65.33	-13.00	52.33	187	166	Horizontal
3	7630	38.16	-41.28	36.76	-61.62	-13.00	48.62	296	82	Horizontal
4	9538	36.44	-38.13	38.55	-58.40	-13.00	45.40	234	296	Horizontal
5	11445.6	31.01	-35.32	39.15	-60.42	-13.00	47.42	185	180	Horizontal
6	13353.2	32.04	-35.15	39.81	-58.56	-13.00	45.56	217	263	Horizontal

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	47.34	-45.44	30.15	-63.20	-13.00	50.20	129	78	Vertical
2	5722.8	39.66	-43.67	33.31	-65.96	-13.00	52.96	306	278	Vertical
3	7630	38.38	-41.28	36.76	-61.40	-13.00	48.40	248	1	Vertical
4	9538	36.78	-38.13	38.55	-58.06	-13.00	45.06	177	1	Vertical
5	11445.6	31.86	-35.32	39.15	-59.57	-13.00	46.57	145	278	Vertical
6	13353.2	32.32	-35.15	39.81	-58.28	-13.00	45.28	219	278	Vertical



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Test Band = WCDMA IV_ TM1_ Ant31
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8	42.05	-45.87	29.43	-69.65	-13.00	56.65	197	229	Horizontal
2	5137.2	40.74	-44.24	32.60	-66.16	-13.00	53.16	248	179	Horizontal
3	6849.6	40.12	-42.50	35.90	-61.74	-13.00	48.74	225	357	Horizontal
4	8562	36.90	-39.70	38.12	-59.94	-13.00	46.94	186	95	Horizontal
5	10274.4	33.38	-36.76	38.80	-59.84	-13.00	46.84	239	212	Horizontal
6	11986.8	31.89	-35.35	38.61	-60.10	-13.00	47.10	277	14	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3424.8	43.15	-45.87	29.43	-68.55	-13.00	55.55	218	160	Vertical
2	5137.2	40.97	-44.24	32.60	-65.93	-13.00	52.93	179	280	Vertical
3	6849.6	40.35	-42.50	35.90	-61.51	-13.00	48.51	249	110	Vertical
4	8562	37.74	-39.70	38.12	-59.10	-13.00	46.10	268	59	Vertical
5	10274.4	32.91	-36.76	38.80	-60.31	-13.00	47.31	137	211	Vertical
6	11986.8	32.71	-35.35	38.61	-59.28	-13.00	46.28	144	1	Vertical



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Test Band = WCDMA IV_ TM1_ Ant31
Test Channel = Mid Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	42.67	-45.77	29.41	-68.95	-13.00	55.95	147	280	Horizontal
2	5197.8	40.75	-44.15	32.60	-66.06	-13.00	53.06	288	357	Horizontal
3	6930.4	39.50	-42.48	36.06	-62.18	-13.00	49.18	195	129	Horizontal
4	8663	36.06	-39.54	38.23	-60.51	-13.00	47.51	268	196	Horizontal
5	10395.6	32.39	-36.49	38.94	-60.42	-13.00	47.42	274	280	Horizontal
6	12128.2	32.12	-35.20	38.73	-59.61	-13.00	46.61	163	357	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	42.25	-45.77	29.41	-69.37	-13.00	56.37	257	295	Vertical
2	5197.8	40.91	-44.15	32.60	-65.90	-13.00	52.90	147	26	Vertical
3	6930.4	40.05	-42.48	36.06	-61.63	-13.00	48.63	284	344	Vertical
4	8663	35.79	-39.54	38.23	-60.78	-13.00	47.78	109	26	Vertical
5	10395.6	31.56	-36.49	38.94	-61.25	-13.00	48.25	248	247	Vertical
6	12128.2	31.54	-35.20	38.73	-60.19	-13.00	47.19	135	129	Vertical



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Test Band = WCDMA IV_ TM1_ Ant31

Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2	42.53	-45.66	29.41	-68.98	-13.00	55.98	159	25	Horizontal
2	5257.8	40.46	-44.07	32.60	-66.27	-13.00	53.27	267	260	Horizontal
3	7010.4	40.27	-42.58	36.21	-61.36	-13.00	48.36	185	5	Horizontal
4	8763	35.87	-39.21	38.34	-60.26	-13.00	47.26	166	357	Horizontal
5	10515.6	31.98	-36.35	39.07	-60.57	-13.00	47.57	243	0	Horizontal
6	12268.2	31.72	-35.12	38.87	-59.79	-13.00	46.79	141	357	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3505.2	41.67	-45.66	29.41	-69.84	-13.00	56.84	198	356	Vertical
2	5257.8	39.72	-44.07	32.60	-67.01	-13.00	54.01	274	41	Vertical
3	7010.4	39.71	-42.58	36.21	-61.92	-13.00	48.92	186	0	Vertical
4	8763	35.54	-39.21	38.34	-60.59	-13.00	47.59	233	141	Vertical
5	10515.6	31.56	-36.35	39.07	-60.99	-13.00	47.99	142	341	Vertical
6	12268.2	31.94	-35.12	38.87	-59.57	-13.00	46.57	178	5	Vertical



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Test Band = WCDMA V_ TM1_ Ant31
Test Channel = Low Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8	44.20	-48.37	25.57	-73.86	-13.00	60.86	124	14	Horizontal
2	2479.2	43.39	-46.91	27.86	-70.92	-13.00	57.92	175	265	Horizontal
3	3305.6	43.21	-46.12	29.48	-68.69	-13.00	55.69	269	93	Horizontal
4	4132	42.68	-45.31	30.81	-67.08	-13.00	54.08	213	14	Horizontal
5	4958.4	42.43	-45.07	32.50	-65.40	-13.00	52.40	145	359	Horizontal
6	5784.8	42.64	-43.52	33.51	-62.63	-13.00	49.63	284	62	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8	44.15	-48.37	25.57	-73.91	-13.00	60.91	166	253	Vertical
2	2479.2	44.26	-46.91	27.86	-70.05	-13.00	57.05	298	316	Vertical
3	3305.6	43.70	-46.12	29.48	-68.20	-13.00	55.20	174	347	Vertical
4	4132	42.50	-45.31	30.81	-67.26	-13.00	54.26	144	221	Vertical
5	4958.4	42.28	-45.07	32.50	-65.55	-13.00	52.55	203	301	Vertical
6	5784.8	42.56	-43.52	33.51	-62.71	-13.00	49.71	248	316	Vertical



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Test Band = WCDMA V_ TM1_ Ant31

Test Channel = Mid Channel

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	44.49	-48.32	25.56	-73.52	-13.00	60.52	216	12	Horizontal
2	2509.2	43.66	-46.79	27.93	-70.45	-13.00	57.45	237	351	Horizontal
3	3345.6	43.54	-46.19	29.46	-68.45	-13.00	55.45	146	264	Horizontal
4	4182	42.01	-45.16	30.89	-67.52	-13.00	54.52	259	360	Horizontal
5	5018.4	42.76	-44.93	32.60	-64.83	-13.00	51.83	274	296	Horizontal
6	5854.8	42.32	-43.34	33.74	-62.54	-13.00	49.54	163	327	Horizontal

Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	43.98	-48.32	25.56	-74.03	-13.00	61.03	247	267	Vertical
2	2509.2	43.05	-46.79	27.93	-71.06	-13.00	58.06	189	156	Vertical
3	3345.6	43.14	-46.19	29.46	-68.85	-13.00	55.85	235	204	Vertical
4	4182	41.35	-45.16	30.89	-68.18	-13.00	55.18	142	204	Vertical
5	5018.4	42.14	-44.93	32.60	-65.45	-13.00	52.45	178	44	Vertical
6	5854.8	41.87	-43.34	33.74	-62.99	-13.00	49.99	209	6	Vertical



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Test Band = WCDMA V_ TM1_ Ant31

Test Channel = High Channel

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2	43.82	-48.26	25.55	-74.15	-13.00	61.15	246	95	Horizontal
2	2539.8	43.33	-46.94	28.04	-70.83	-13.00	57.83	179	254	Horizontal
3	3386.4	42.89	-46.26	29.45	-69.18	-13.00	56.18	264	298	Horizontal
4	4233	42.46	-45.11	30.97	-66.94	-13.00	53.94	185	3	Horizontal
5	5079.6	41.90	-44.67	32.60	-65.43	-13.00	52.43	142	358	Horizontal
6	5926.2	42.70	-43.29	33.96	-61.89	-13.00	48.89	218	284	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1693.2	43.78	-48.26	25.55	-74.19	-13.00	61.19	241	0	Vertical
2	2539.8	43.59	-46.94	28.04	-70.57	-13.00	57.57	174	0	Vertical
3	3386.4	43.17	-46.26	29.45	-68.90	-13.00	55.90	189	59	Vertical
4	4233	41.32	-45.11	30.97	-68.08	-13.00	55.08	263	108	Vertical
5	5079.6	42.92	-44.67	32.60	-64.41	-13.00	51.41	244	1	Vertical
6	5926.2	41.89	-43.29	33.96	-62.70	-13.00	49.70	170	266	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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	VL	NT	2.45	0.001303	PASS
BandII	9400	VN	NT	2.32	0.001234	PASS
BandII	9400	VH	NT	2.65	0.001410	PASS
BandIV	1413	VL	NT	-3.31	-0.001910	PASS
BandIV	1413	VN	NT	-2.87	-0.001656	PASS
BandIV	1413	VH	NT	-1.97	-0.001137	PASS

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	VL	NT	0.23	0.000275	±2.5	PASS
BandV	4182	VN	NT	-0.34	-0.000407	±2.5	PASS
BandV	4182	VH	NT	-0.47	-0.000562	±2.5	PASS



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Temperature						
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
BandII	9400	NV	-30	0.86	0.000687	PASS
BandII	9400	NV	-20	2.26	0.001654	PASS
BandII	9400	NV	-10	1.59	0.002635	PASS
BandII	9400	NV	0	1.44	0.002135	PASS
BandII	9400	NV	10	1.62	0.000864	PASS
BandII	9400	NV	20	3.26	0.002125	PASS
BandII	9400	NV	30	2.53	0.001654	PASS
BandII	9400	NV	40	1.28	0.001136	PASS
BandII	9400	NV	50	3.25	0.001852	PASS
BandIV	1413	NV	-30	-2.44	-0.001256	PASS
BandIV	1413	NV	-20	-2.23	-0.001164	PASS
BandIV	1413	NV	-10	-1.53	-0.001253	PASS
BandIV	1413	NV	0	-2.56	-0.002145	PASS
BandIV	1413	NV	10	-2.12	-0.001652	PASS
BandIV	1413	NV	20	-2.53	-0.001352	PASS
BandIV	1413	NV	30	-3.54	-0.001687	PASS
BandIV	1413	NV	40	-2.69	-0.001426	PASS
BandIV	1413	NV	50	-3.23	-0.001868	PASS



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Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
BandV	4182	NV	-30	0.26	0.000086	±2.5	PASS
BandV	4182	NV	-20	-0.54	-0.000578	±2.5	PASS
BandV	4182	NV	-10	-0.39	-0.000867	±2.5	PASS
BandV	4182	NV	0	0.06	0.000071	±2.5	PASS
BandV	4182	NV	10	-0.13	-0.000065	±2.5	PASS
BandV	4182	NV	20	-0.34	-0.000726	±2.5	PASS
BandV	4182	NV	30	-0.62	-0.000636	±2.5	PASS
BandV	4182	NV	40	-0.25	-0.000216	±2.5	PASS
BandV	4182	NV	50	-0.24	-0.000178	±2.5	PASS

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