



Report No.: SEWA2309000114RG09

Rev.: 01

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# Appendix B.1

## WCDMA Band II&IV&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	24.32	24.57	33	PASS
Band II	9400	24.56	24.81	33	PASS
Band II	9538	23.71	23.96	33	PASS
Band IV	1312	23.65	25.12	30	PASS
Band IV	1413	23.34	24.81	30	PASS
Band IV	1513	23.47	24.94	30	PASS

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band V	4132	23.65	24.18	38.45	PASS
Band V	4182	24.33	24.86	38.45	PASS
Band V	4233	23.56	24.09	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	4.2	13	PASS
Band II	9400	3.92	13	PASS
Band II	9538	4.6	13	PASS
Band IV	1312	4.72	13	PASS
Band IV	1413	4.06	13	PASS
Band IV	1513	4.76	13	PASS
Band V	4132	2.6	13	PASS
Band V	4182	2.7	13	PASS
Band V	4233	2.82	13	PASS

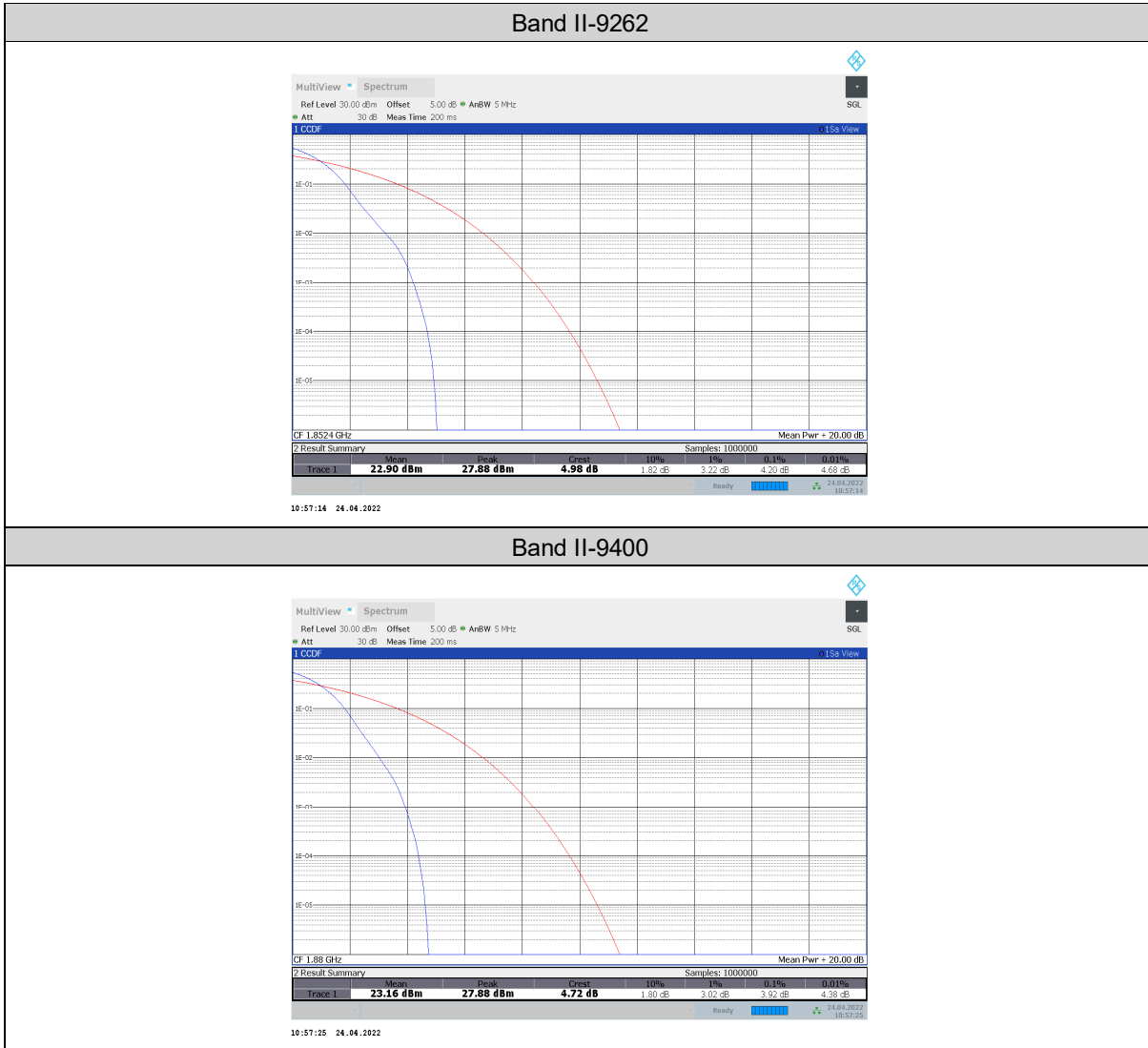


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Test Graphs

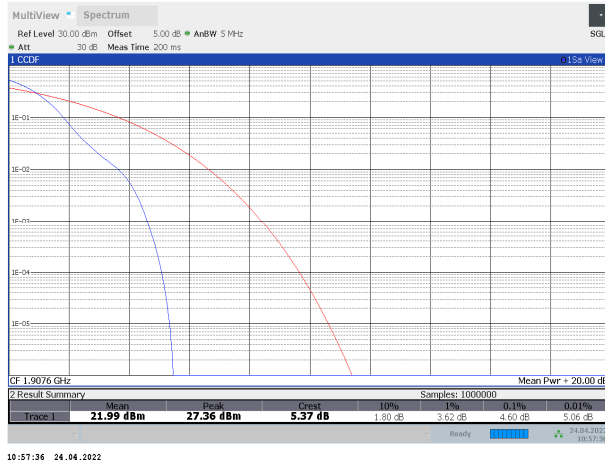


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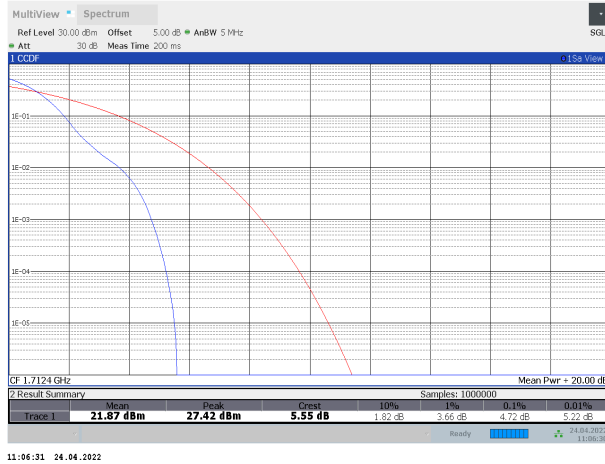
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Band II-9538



10:57:36 24.04.2022

Band IV-1312



11:06:31 24.04.2022

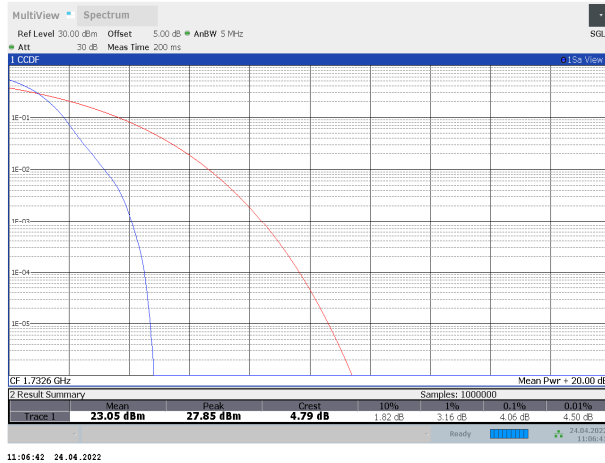


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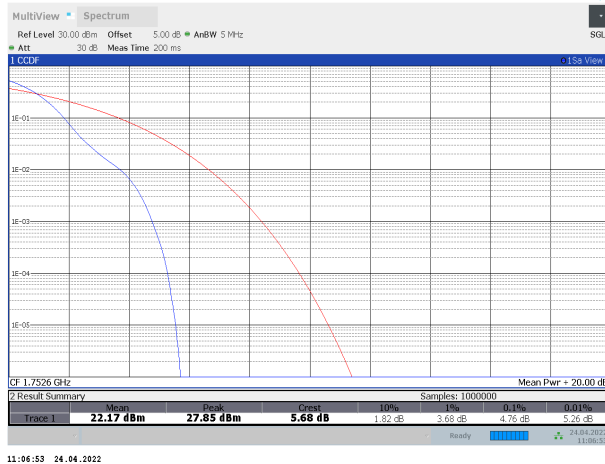
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Band IV-1413



Band IV-1513

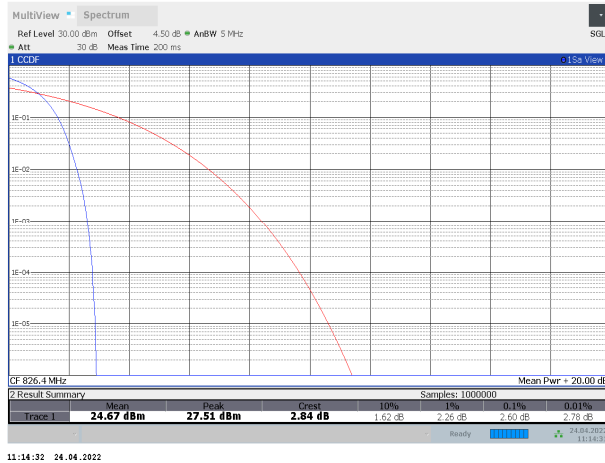


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Band V-4132



Band V-4182



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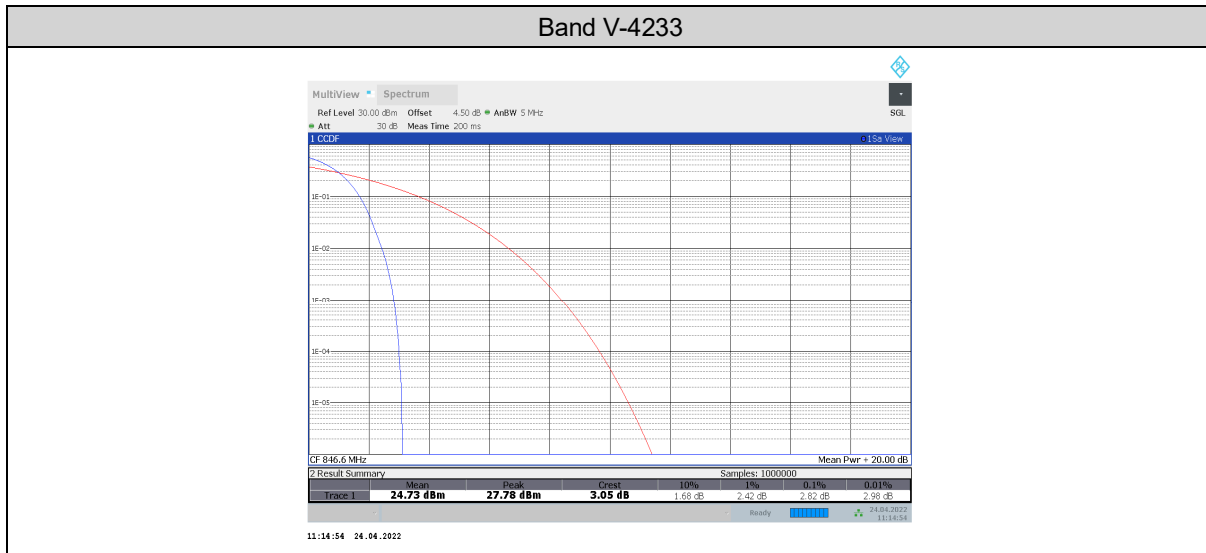
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### 26dB Bandwidth and Occupied Bandwidth

#### Test Result

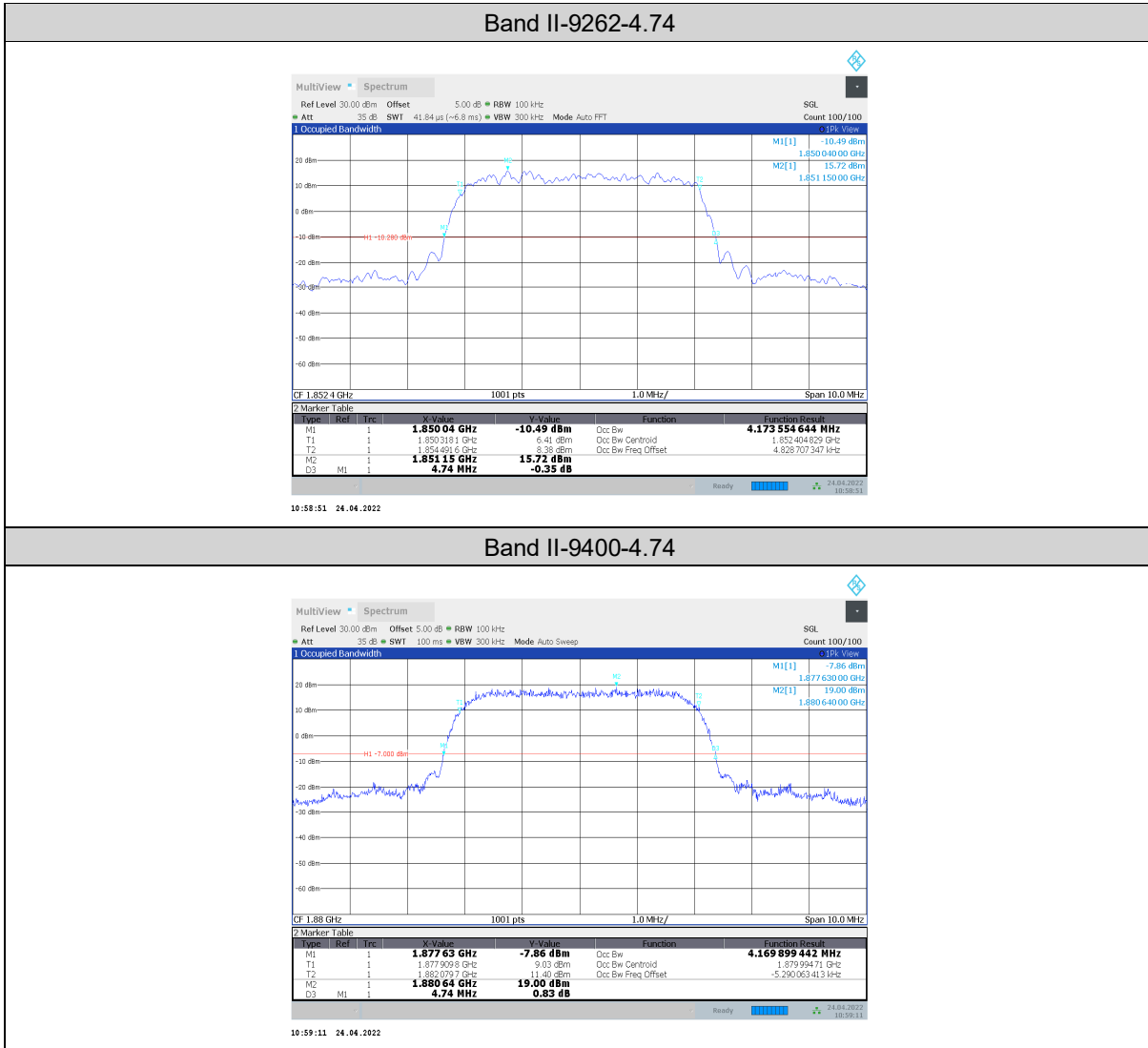
Band	Channel	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit(MHz)	Verdict
Band II	9262	4.174	4.74	---	PASS
Band II	9400	4.17	4.74	---	PASS
Band II	9538	4.156	4.73	---	PASS
Band IV	1312	4.205	4.72	---	PASS
Band IV	1413	4.166	4.74	---	PASS
Band IV	1513	4.165	4.74	---	PASS
Band V	4132	4.149	4.74	---	PASS
Band V	4182	4.14	4.76	---	PASS
Band V	4233	4.148	4.74	---	PASS



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Test Graphs



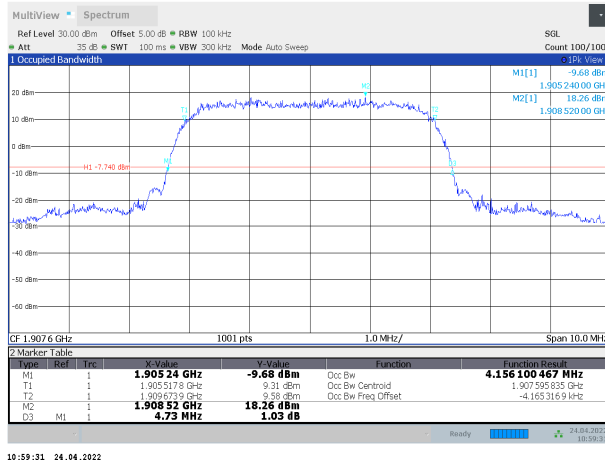
**Band II-9400-4.74**



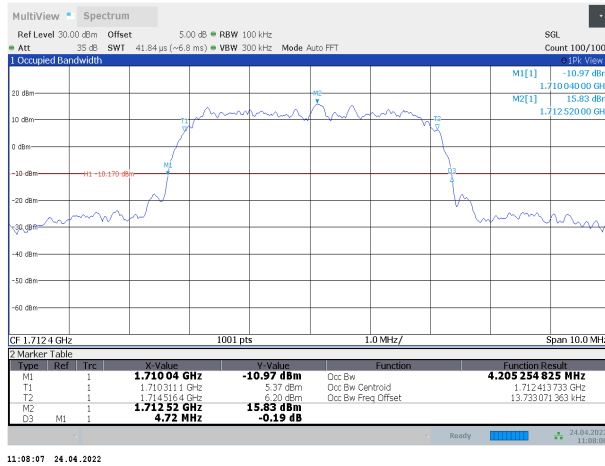
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Band II-9538-4.73



Band IV-1312-4.72

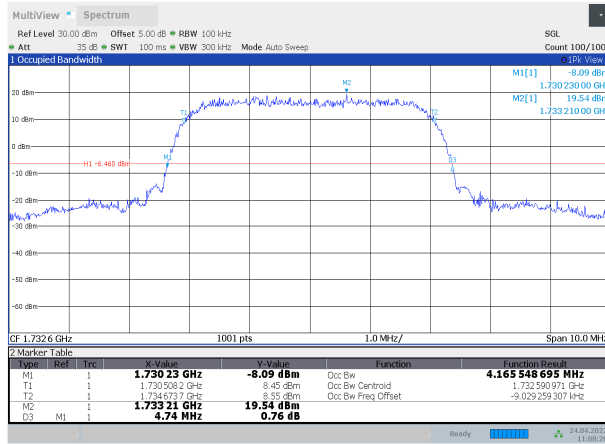


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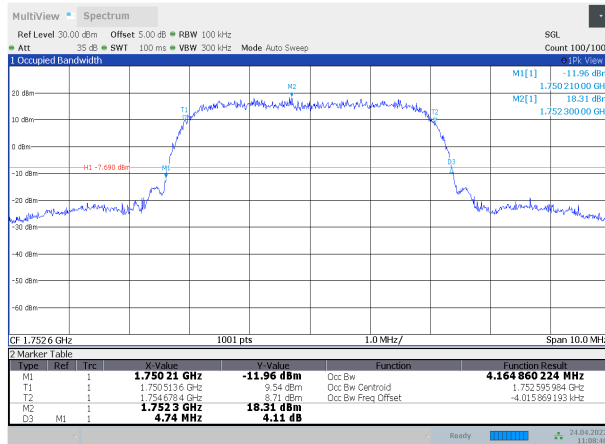
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Band IV-1413-4.74



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Band IV-1513-4.74



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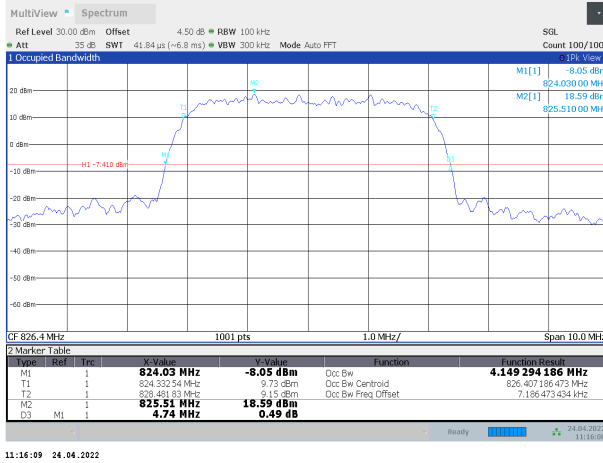


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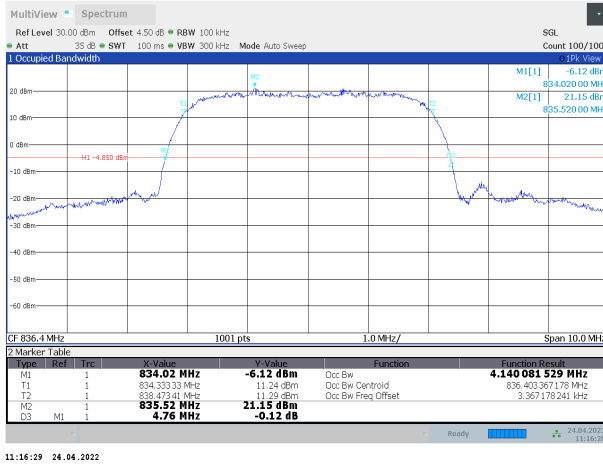
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Band V-4132-4.74

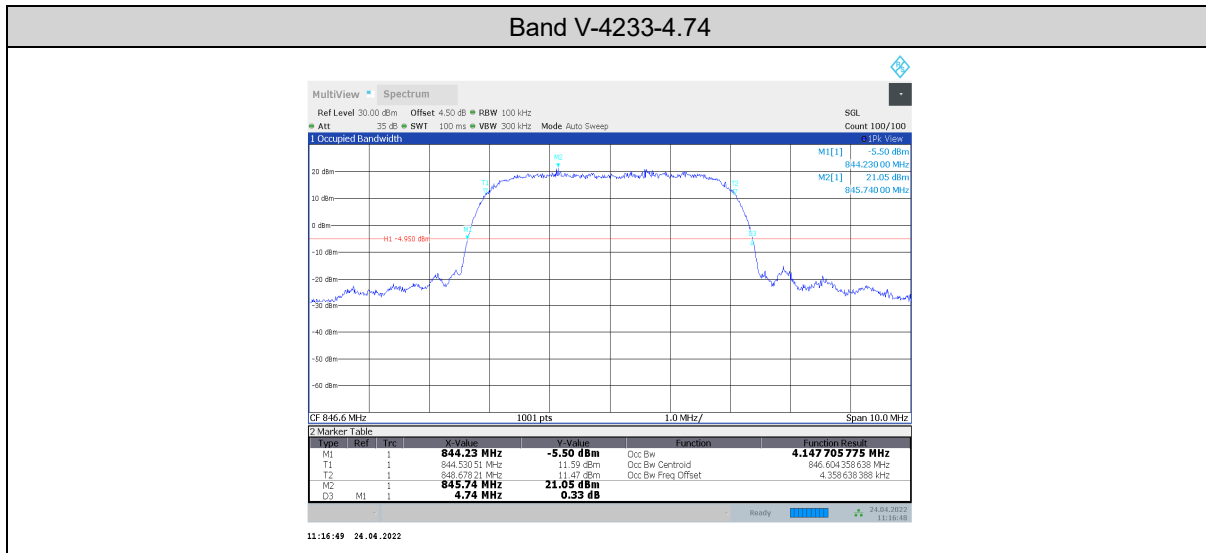


Band V-4182-4.76



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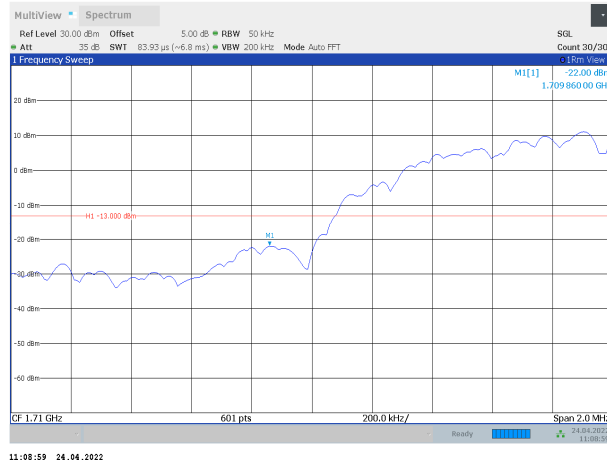
## Band Edge

### Test Graphs



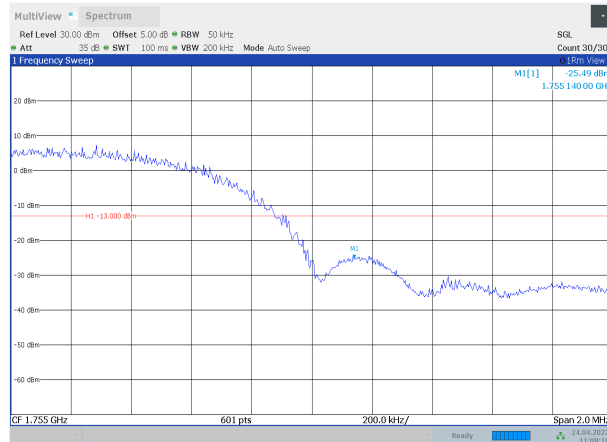
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Band IV-1312



11:08:59 24.04.2022

Band IV-1513



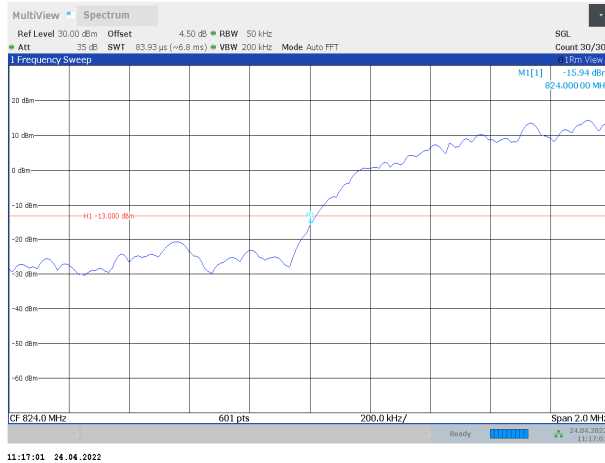
11:09:11 24.04.2022



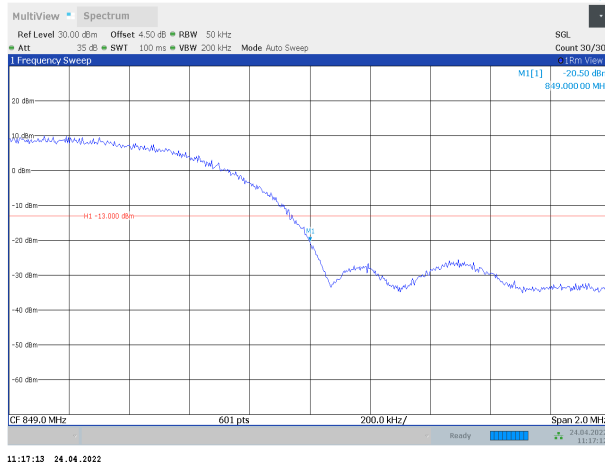
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Band V-4132



Band V-4233



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## Conducted Spurious Emission

### Test Graphs

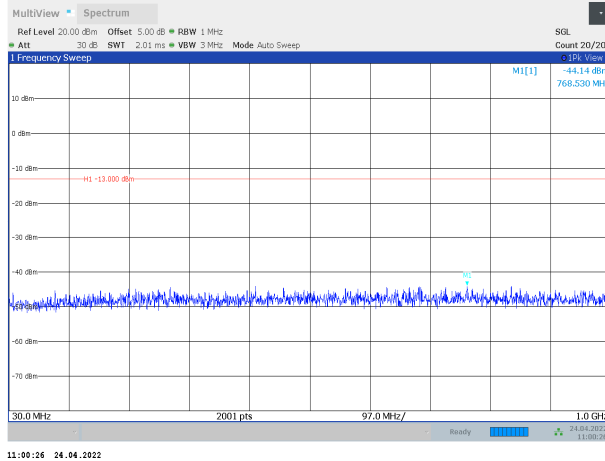


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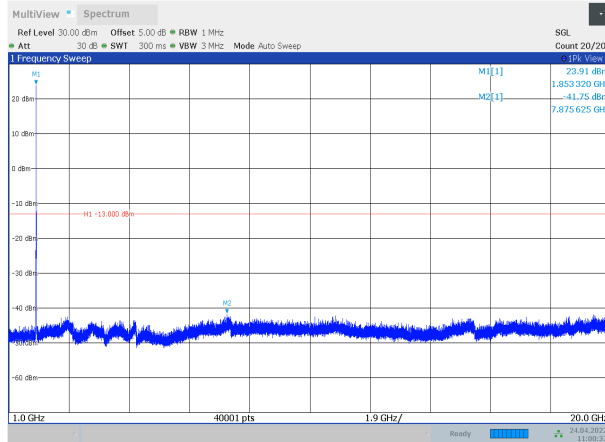
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Band II-9262-30~1000MHz



11:00:26 24.04.2022

Band II-9262-1000~20000MHz



11:00:37 24.04.2022

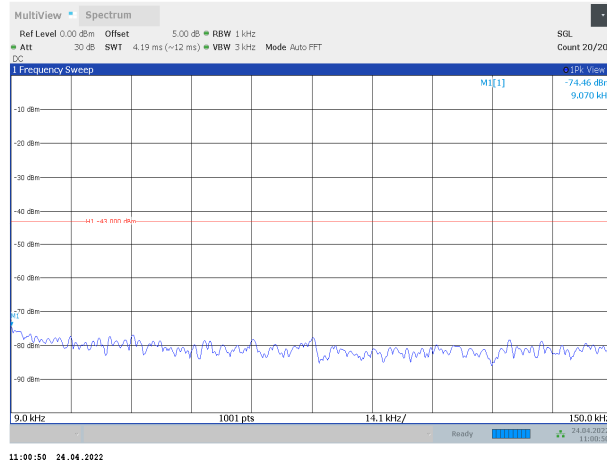


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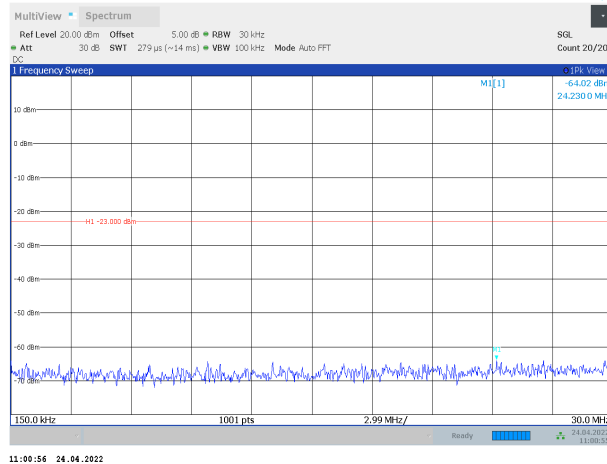
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Band II-9400-0.009~0.15MHz



Band II-9400-0.15~30MHz

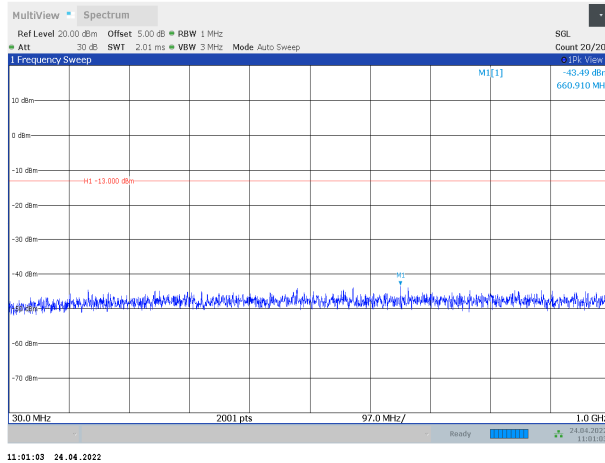


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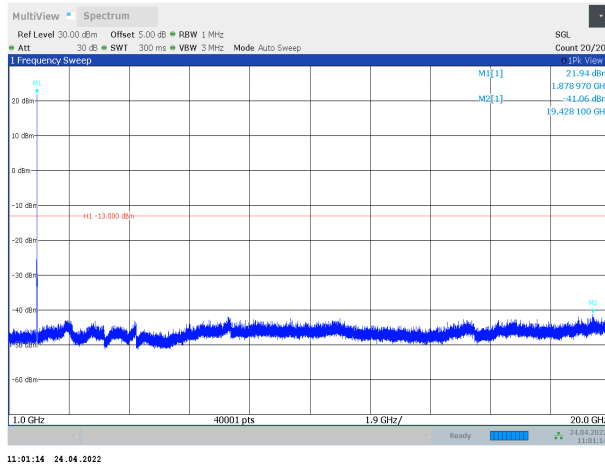
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Band II-9400-30~1000MHz



Band II-9400-1000~20000MHz



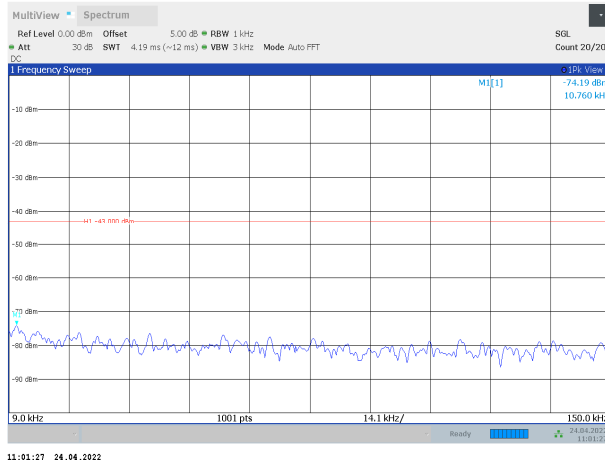
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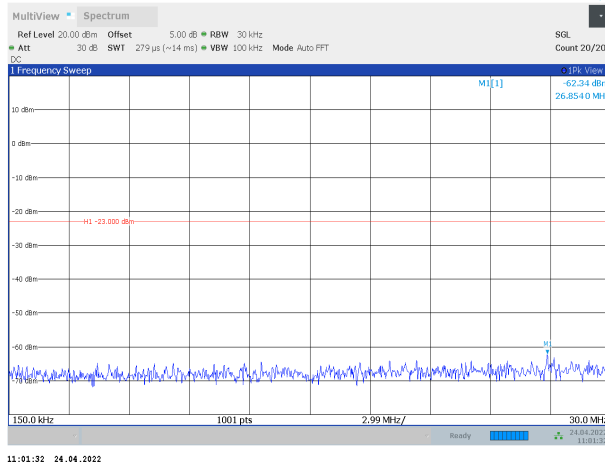
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Band II-9538-0.009~0.15MHz



Band II-9538-0.15~30MHz

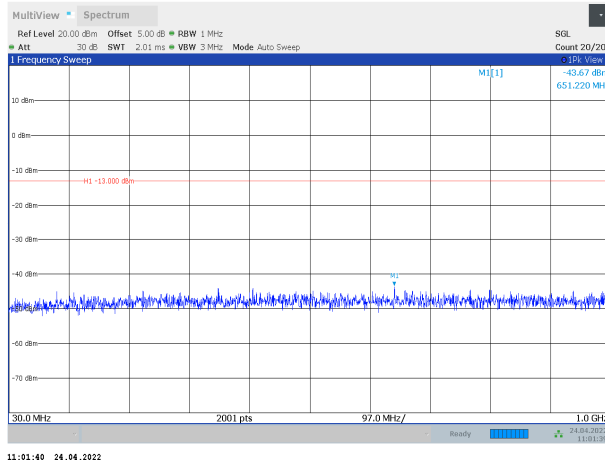


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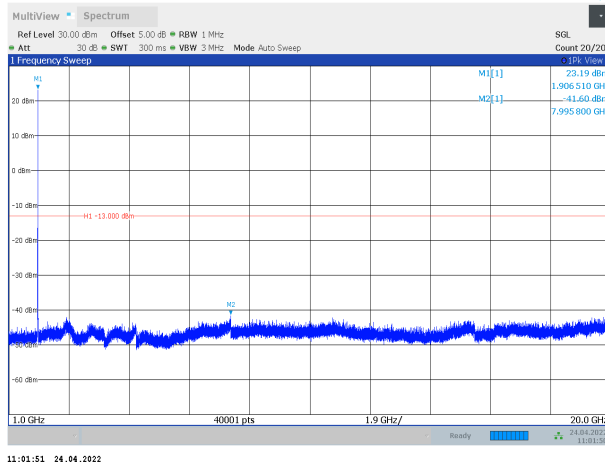
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Band II-9538-30~1000MHz



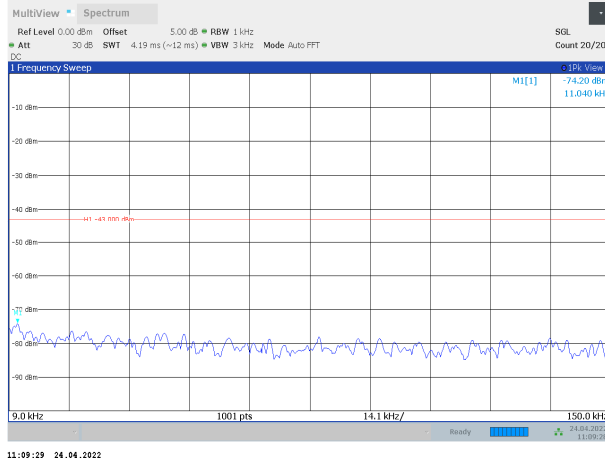
Band II-9538-1000~20000MHz



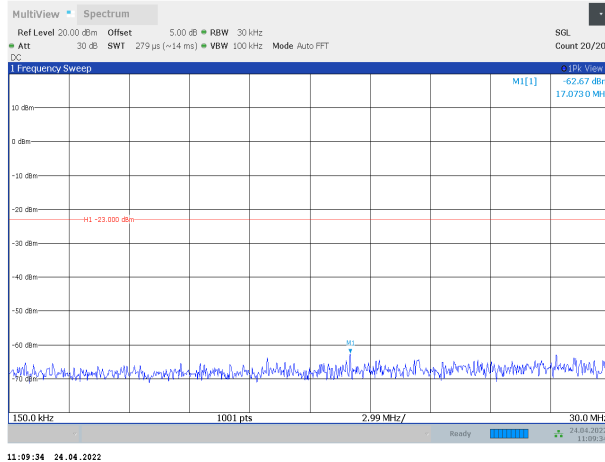
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Band IV-1312-0.009~0.15MHz



Band IV-1312-0.15~30MHz



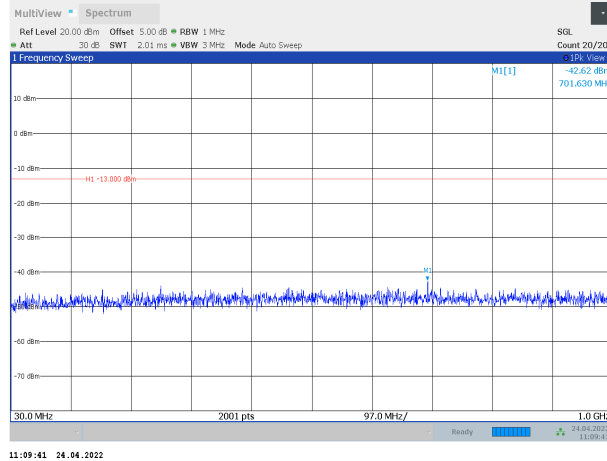
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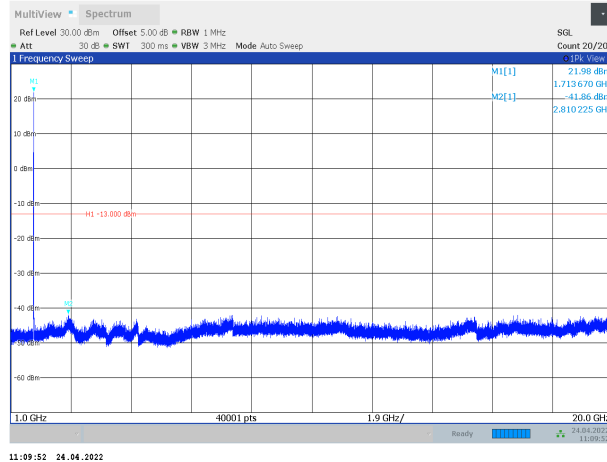
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Band IV-1312-30~1000MHz



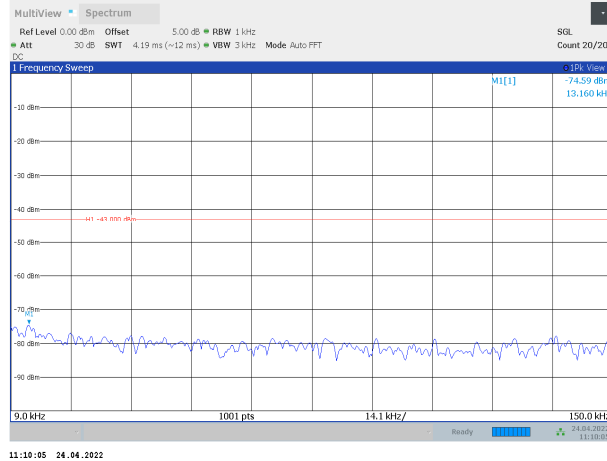
Band IV-1312-1000~20000MHz



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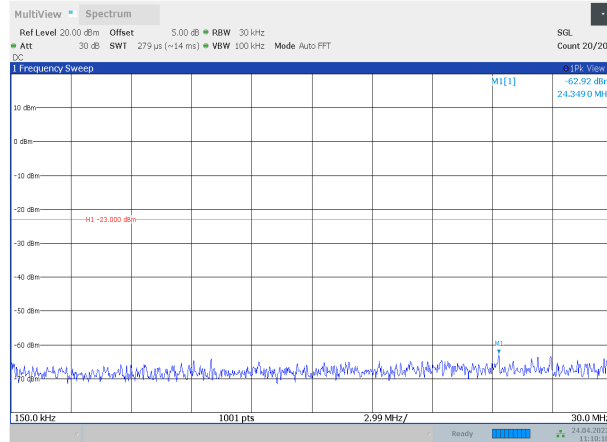
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Band IV-1413-0.009~0.15MHz



11:10:05 24.04.2022

Band IV-1413-0.15~30MHz

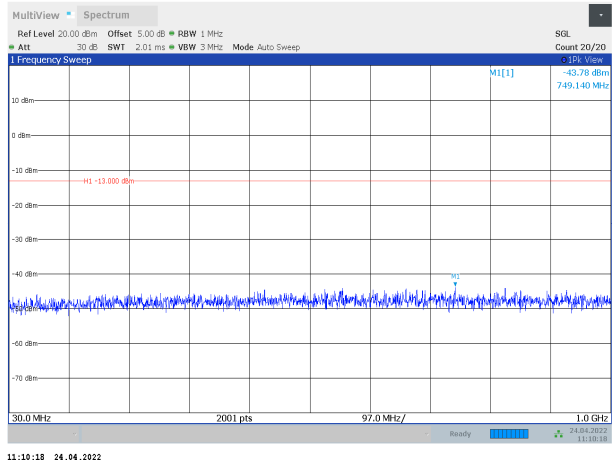


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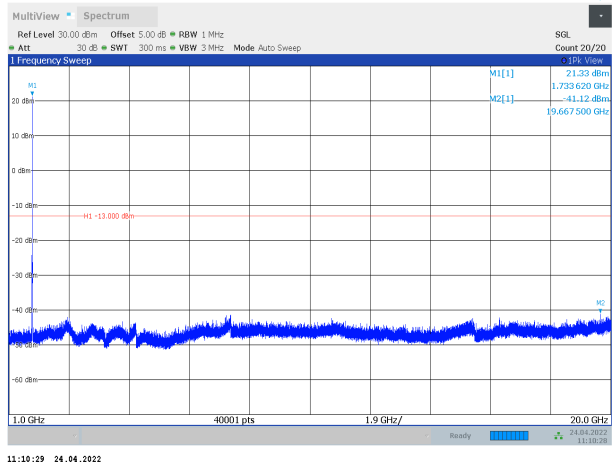


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Band IV-1413-30~1000MHz



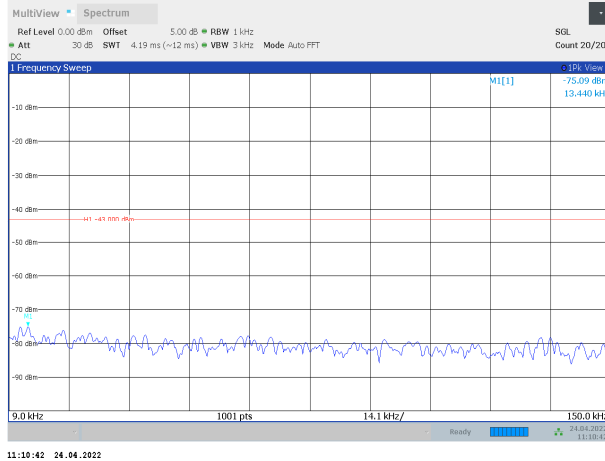
Band IV-1413-1000~20000MHz



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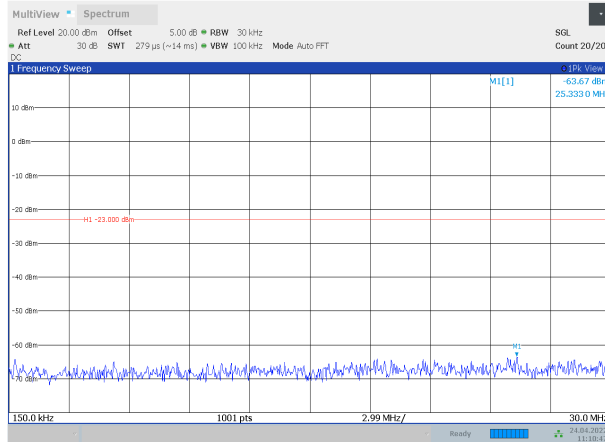
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Band IV-1513-0.009~0.15MHz



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Band IV-1513-0.15~30MHz

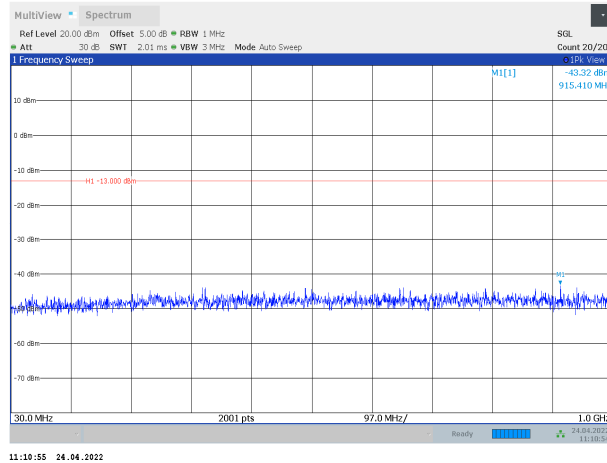


11:10:47 24.04.2022

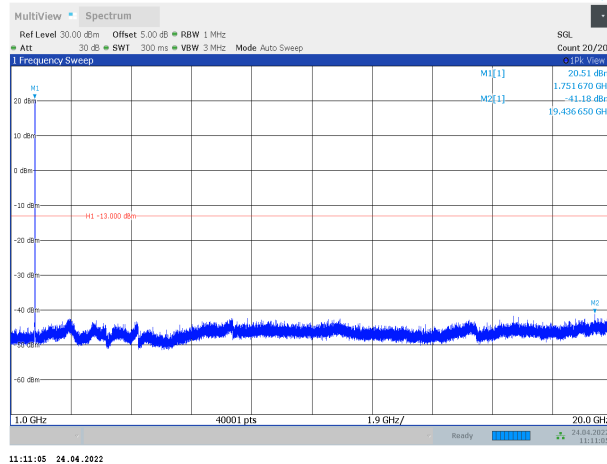


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Band IV-1513-30~1000MHz



Band IV-1513-1000~20000MHz

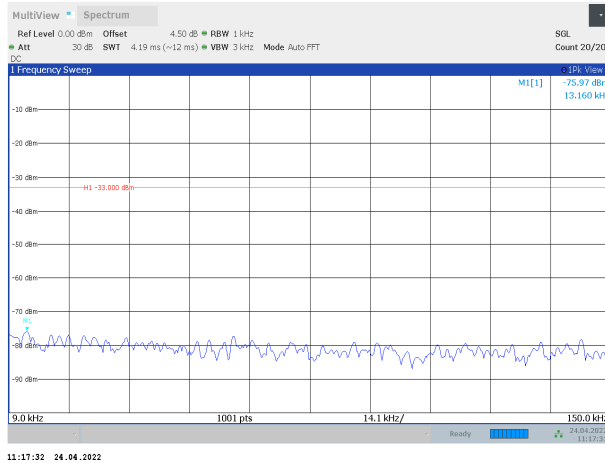


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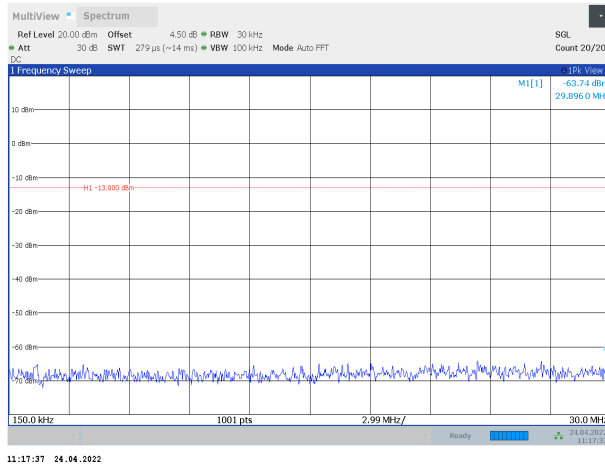
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Band V-4132-0.009~0.15MHz



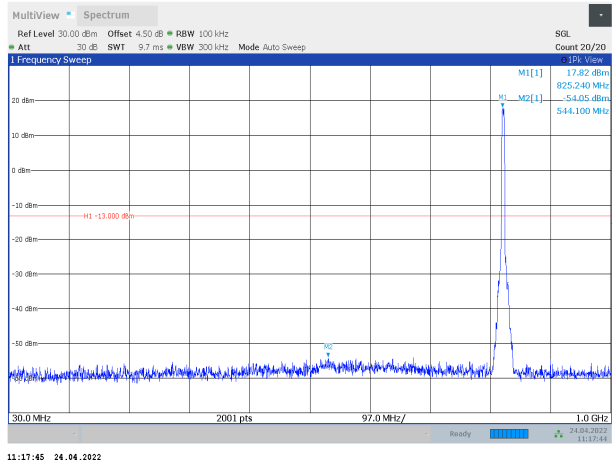
Band V-4132-0.15~30MHz



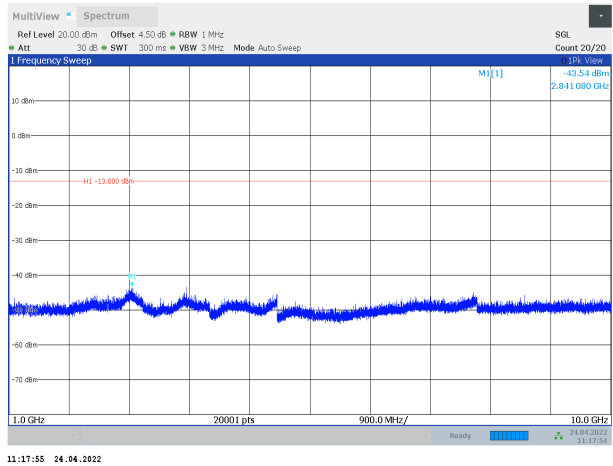
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Band V-4132-30~1000MHz



Band V-4132-1000~10000MHz

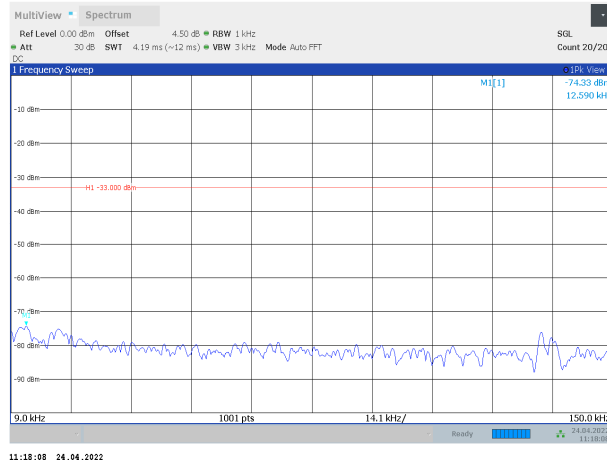


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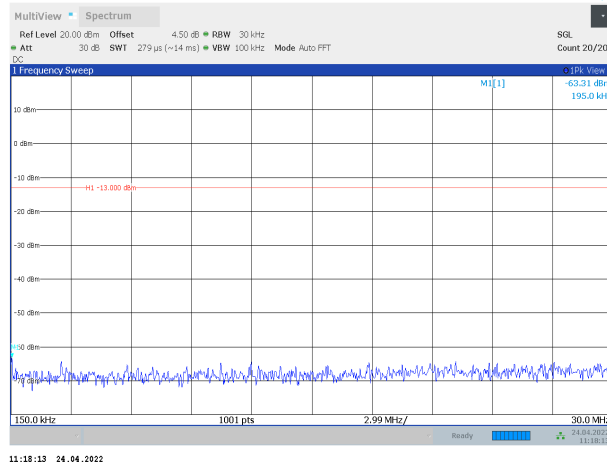
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Band V-4182-0.009~0.15MHz



Band V-4182-0.15~30MHz



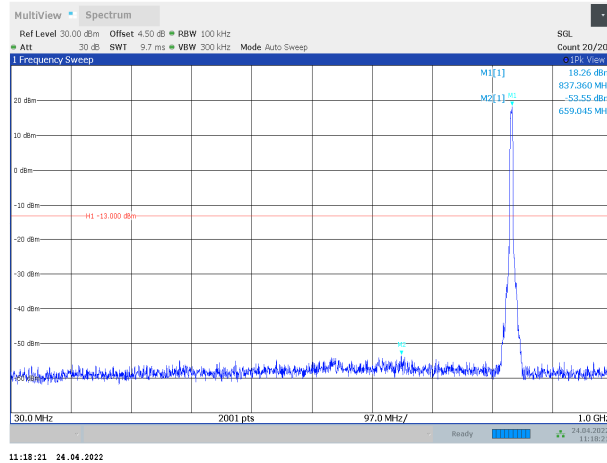
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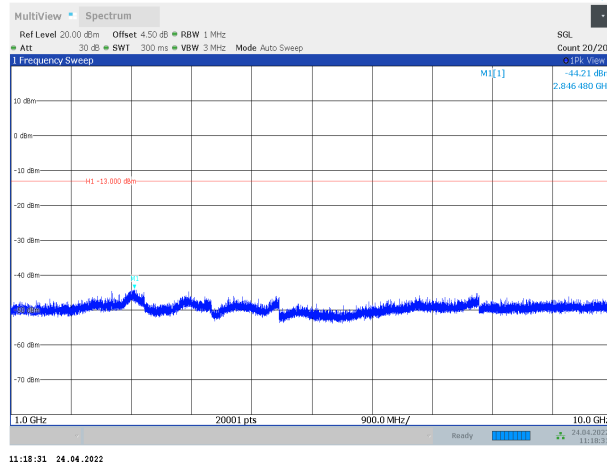
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Band V-4182-30~1000MHz



Band V-4182-1000~10000MHz

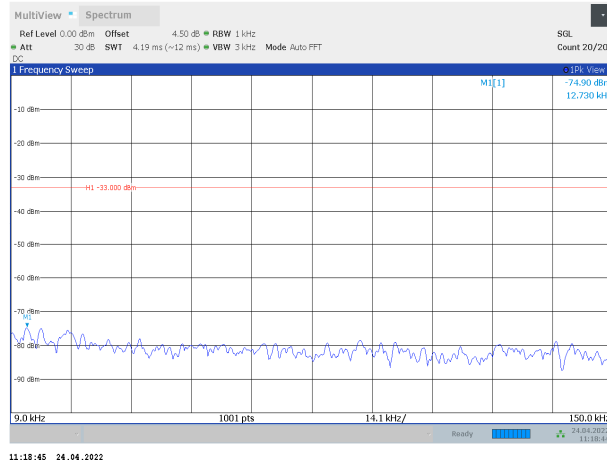


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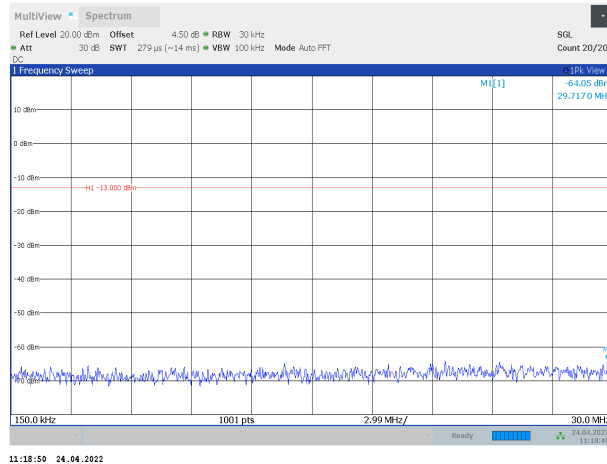
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Band V-4233-0.009~0.15MHz



Band V-4233-0.15~30MHz

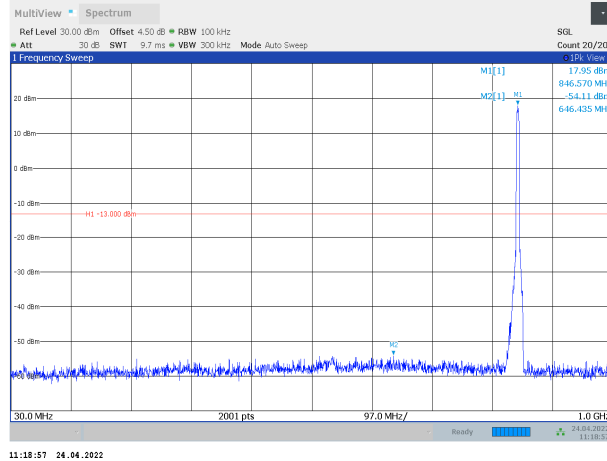


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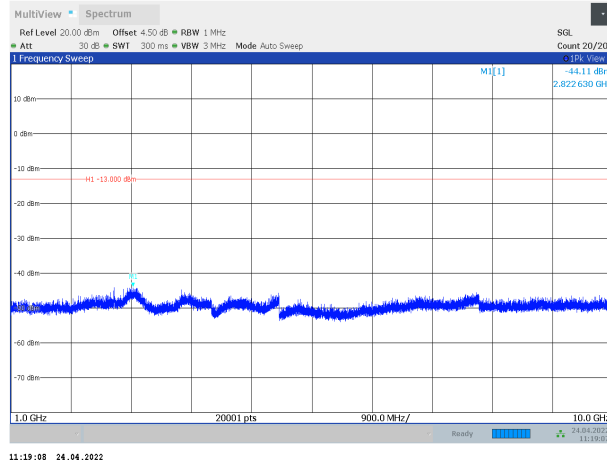
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Band V-4233-30~1000MHz



Band V-4233-1000~10000MHz



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## Field Strength of Spurious Radiation

Test Band = WCDMA II\_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8000	40.91	-45.52	29.99	-69.88	-13.00	56.88	144	25	Horizontal
2	4281	41.70	-45.58	31.27	-67.88	-13.00	54.88	152	30	Horizontal
3	5557.2000	41.35	-45.14	32.97	-66.08	-13.00	53.08	142	300	Horizontal
4	7409.6000	39.12	-43.38	36.49	-63.04	-13.00	50.04	130	4	Horizontal
5	9262.0000	35.37	-40.23	38.39	-61.73	-13.00	48.73	198	269	Horizontal
6	11114.4000	31.19	-37.88	39.09	-62.86	-13.00	49.86	146	359	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	3704.8000	40.81	-45.52	29.99	-69.98	-13.00	56.98	241	148	Vertical
2	4098.75	42.47	-45.76	30.95	-67.61	-13.00	54.61	136	74	Vertical
3	5557.2000	40.53	-45.14	32.97	-66.90	-13.00	53.90	255	165	Vertical
4	7409.6000	40.11	-43.38	36.49	-62.05	-13.00	49.05	192	269	Vertical
5	9262.0000	35.37	-40.23	38.39	-61.73	-13.00	48.73	148	351	Vertical
6	11114.4000	30.96	-37.88	39.09	-63.09	-13.00	50.09	173	329	Vertical



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Test Band = WCDMA II\_TM1
Test Channel = Mid Channel

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.

Table with 11 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.



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Test Band = WCDMA II\_TM1
Test Channel = High Channel

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.

Table with 11 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], AF[dB/m], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.



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Test Band = WCDMA IV\_TM1
Test Channel = Low Channel

Table with 10 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.

Table with 10 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.



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Test Band = WCDMA IV\_TM1  
 Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	50.74	-111.62	-60.88	-13.00	47.88	263	329	Horizontal
2	5197.8	50.46	-106.81	-56.35	-13.00	43.35	241	357	Horizontal
3	6930.4	47.96	-101.68	-53.72	-13.00	40.72	176	31	Horizontal
4	8663	46.08	-96.57	-50.49	-13.00	37.49	264	31	Horizontal
5	10395.6	42.16	-92.81	-50.65	-13.00	37.65	186	1	Horizontal
6	12128.2	42.83	-91.73	-48.90	-13.00	35.90	299	83	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3465.2	50.13	-111.62	-61.49	-13.00	48.49	211	130	Vertical
2	5197.8	49.01	-106.81	-57.80	-13.00	44.80	142	213	Vertical
3	6930.4	47.81	-101.68	-53.87	-13.00	40.87	263	312	Vertical
4	8663	46.56	-96.57	-50.01	-13.00	37.01	244	17	Vertical
5	10395.6	42.62	-92.81	-50.19	-13.00	37.19	177	230	Vertical
6	12128.2	42.37	-91.73	-49.36	-13.00	36.36	166	357	Vertical



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Test Band = WCDMA IV\_TM1
Test Channel = High Channel

Table with 10 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.

Table with 10 columns: NO., Frequency [MHz], Reading [dBμV], Factor [dB], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of test data.



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**Test Band = WCDMA V\_TM1**  
**Test Channel = Low Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8	54.85	-118.06	-63.21	-13.00	50.21	263	135	Horizontal
2	2479.2	52.06	-114.31	-62.25	-13.00	49.25	241	20	Horizontal
3	3305.6	51.25	-111.90	-60.65	-13.00	47.65	176	357	Horizontal
4	4132	49.13	-109.76	-60.63	-13.00	47.63	244	113	Horizontal
5	4958.4	50.69	-107.82	-57.13	-13.00	44.13	177	259	Horizontal
6	5784.8	51.19	-105.26	-54.07	-13.00	41.07	168	30	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1652.8	53.23	-118.06	-64.83	-13.00	51.83	263	27	Vertical
2	2479.2	51.62	-114.31	-62.69	-13.00	49.69	251	184	Vertical
3	3305.6	50.84	-111.90	-61.06	-13.00	48.06	176	27	Vertical
4	4132	48.32	-109.76	-61.44	-13.00	48.44	241	163	Vertical
5	4958.4	50.80	-107.82	-57.02	-13.00	44.02	177	340	Vertical
6	5784.8	51.28	-105.26	-53.98	-13.00	40.98	166	111	Vertical



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Test Band = WCDMA V\_TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	55.31	-118.01	-62.70	-13.00	49.70	263	218	Horizontal
2	2509.2	52.27	-114.12	-61.85	-13.00	48.85	251	187	Horizontal
3	3345.6	52.29	-111.99	-59.70	-13.00	46.70	186	360	Horizontal
4	4182	49.15	-109.53	-60.38	-13.00	47.38	264	156	Horizontal
5	5018.4	49.33	-107.59	-58.26	-13.00	45.26	177	167	Horizontal
6	5854.8	51.27	-104.86	-53.59	-13.00	40.59	185	322	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1672.8	53.48	-118.01	-64.53	-13.00	51.53	263	196	Vertical
2	2509.2	52.31	-114.12	-61.81	-13.00	48.81	241	350	Vertical
3	3345.6	51.96	-111.99	-60.03	-13.00	47.03	175	350	Vertical
4	4182	48.65	-109.53	-60.88	-13.00	47.88	264	164	Vertical
5	5018.4	49.83	-107.59	-57.76	-13.00	44.76	177	0	Vertical
6	5854.8	50.64	-104.86	-54.22	-13.00	41.22	264	12	Vertical



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Test Band = WCDMA V\_TM1
Test Channel = High Channel

Table with 10 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.

Table with 10 columns: NO., Frequency [MHz], Reading [dBµV], Factor [dB], Level [dBm], Limit [dBm], Margin [dB], Height [cm], Angle [°], Polarity. Contains 6 rows of data.



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**Test on the worst case for SEWM2304000122RG01:**

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

**Test Channel = Low Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3704.8	41.74	-45.69	29.89	-69.31	-13.00	56.31	196	199	Horizontal
2	5557.2	40.46	-43.87	32.78	-65.89	-13.00	52.89	265	15	Horizontal
3	7409.6	39.77	-41.94	36.45	-60.99	-13.00	47.99	284	129	Horizontal
4	9262	33.34	-38.39	38.57	-61.74	-13.00	48.74	142	230	Horizontal
5	11114.4	31.63	-35.32	39.49	-59.46	-13.00	46.46	263	47	Horizontal
6	12966.8	32.86	-34.90	39.57	-57.73	-13.00	44.73	228	316	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	3704.8	42.80	-45.69	29.89	-68.25	-13.00	55.25	296	65	Vertical
2	5557.2	43.27	-43.87	32.78	-63.08	-13.00	50.08	265	118	Vertical
3	7409.6	39.59	-41.94	36.45	-61.17	-13.00	48.17	284	358	Vertical
4	9262	33.92	-38.39	38.57	-61.16	-13.00	48.16	142	360	Vertical
5	11114.4	31.51	-35.32	39.49	-59.58	-13.00	46.58	263	265	Vertical
6	12966.8	32.87	-34.90	39.57	-57.72	-13.00	44.72	225	33	Vertical



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Test Band = WCDMA II\_TM1  
 Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3760	41.25	-45.54	30.03	-69.52	-13.00	56.52	142	334	Horizontal
2	5640	39.96	-43.81	33.05	-66.06	-13.00	53.06	265	265	Horizontal
3	7520	37.48	-41.53	36.54	-62.77	-13.00	49.77	284	298	Horizontal
4	9400	34.74	-38.16	38.56	-60.12	-13.00	47.12	142	52	Horizontal
5	11280	30.96	-35.28	39.32	-60.26	-13.00	47.26	263	248	Horizontal
6	13160	30.65	-34.68	39.70	-59.59	-13.00	46.59	228	101	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	3760	42.22	-45.54	30.03	-68.55	-13.00	55.55	296	268	Vertical
2	5640	40.28	-43.81	33.05	-65.74	-13.00	52.74	265	52	Vertical
3	7520	38.49	-41.53	36.54	-61.76	-13.00	48.76	284	304	Vertical
4	9400	34.97	-38.16	38.56	-59.89	-13.00	46.89	142	150	Vertical
5	11280	31.17	-35.28	39.32	-60.05	-13.00	47.05	263	3	Vertical
6	13160	31.23	-34.68	39.70	-59.01	-13.00	46.01	228	360	Vertical



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**Test Band = WCDMA II\_TM1**  
**Test Channel = High Channel**

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3815.2	42.05	-45.44	30.16	-68.49	-13.00	55.49	284	354	Horizontal
2	5722.8	39.78	-43.67	33.31	-65.84	-13.00	52.84	174	360	Horizontal
3	7630	38.33	-41.28	36.76	-61.45	-13.00	48.45	142	148	Horizontal
4	9538	35.35	-38.13	38.55	-59.49	-13.00	46.49	263	343	Horizontal
5	11445.6	31.64	-35.32	39.15	-59.79	-13.00	46.79	254	360	Horizontal
6	13353.2	31.70	-35.15	39.81	-58.90	-13.00	45.90	187	148	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	3815.2	43.45	-45.44	30.16	-67.09	-13.00	54.09	285	99	Vertical
2	5722.8	40.22	-43.67	33.31	-65.40	-13.00	52.40	241	83	Vertical
3	7630	38.13	-41.28	36.76	-61.65	-13.00	48.65	142	31	Vertical
4	9538	36.16	-38.13	38.55	-58.68	-13.00	45.68	263	247	Vertical
5	11445.6	31.84	-35.32	39.15	-59.59	-13.00	46.59	228	199	Vertical
6	13353.2	31.72	-35.15	39.81	-58.88	-13.00	45.88	174	132	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



## Frequency Stability

### Test Result

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	VL	NT	7.29	0.003878	PASS
Band II	9400	VN	NT	7.48	0.003979	PASS
Band II	9400	VH	NT	7.06	0.003755	PASS
Band IV	1413	VL	NT	0.72	0.000416	PASS
Band IV	1413	VN	NT	0.77	0.000444	PASS
Band IV	1413	VH	NT	0.99	0.000571	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	VL	NT	-0.55	-0.000658	±2.5	PASS
Band V	4182	VN	NT	0.04	0.000048	±2.5	PASS
Band V	4182	VH	NT	0.22	0.000263	±2.5	PASS



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Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band II	9400	NV	-30	6.48	0.003447	PASS
Band II	9400	NV	-20	6.91	0.003676	PASS
Band II	9400	NV	0	7.12	0.003787	PASS
Band II	9400	NV	10	6.86	0.003649	PASS
Band II	9400	NV	20	6.05	0.003218	PASS
Band II	9400	NV	30	6.81	0.003622	PASS
Band II	9400	NV	40	6.72	0.003574	PASS
Band II	9400	NV	50	7.00	0.003723	PASS
Band IV	1413	NV	-30	1.76	0.001016	PASS
Band IV	1413	NV	-20	1.04	0.000600	PASS
Band IV	1413	NV	0	1.57	0.000906	PASS
Band IV	1413	NV	10	1.42	0.000820	PASS
Band IV	1413	NV	20	1.27	0.000733	PASS
Band IV	1413	NV	30	0.44	0.000254	PASS
Band IV	1413	NV	40	1.73	0.000998	PASS
Band IV	1413	NV	50	1.84	0.001062	PASS

Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band V	4182	NV	-30	0.98	0.001172	±2.5	PASS
Band V	4182	NV	-20	1.49	0.001781	±2.5	PASS
Band V	4182	NV	0	1.69	0.002021	±2.5	PASS
Band V	4182	NV	10	-0.02	-0.000024	±2.5	PASS
Band V	4182	NV	20	-1.00	-0.001196	±2.5	PASS
Band V	4182	NV	30	-0.04	-0.000048	±2.5	PASS
Band V	4182	NV	40	0.68	0.000813	±2.5	PASS
Band V	4182	NV	50	0.19	0.000227	±2.5	PASS

---End of Attachment---



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